

OPERATOR: **Bayswater E&P, LLC**

WELL NAME: **Leffler LA-26-28HN**

FIELD NAME: DJ Basin - Wattenberg

DRILLING RIG: True 38

API #: 05-123-50042

LAT/LONG: 40.552689, -104.753102
SURFACE HOLE: NWNW S26-T7N-R66W, 250' FNL, 325' FWL
BOTTOM HOLE: S28-T7N-R68W, 2470' FNL, 5' FWL

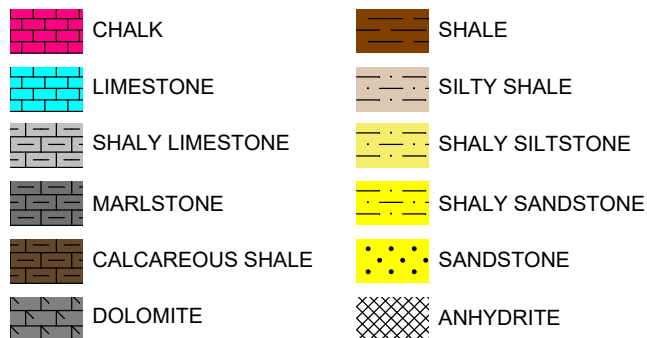


Earth Science Agency, LLC

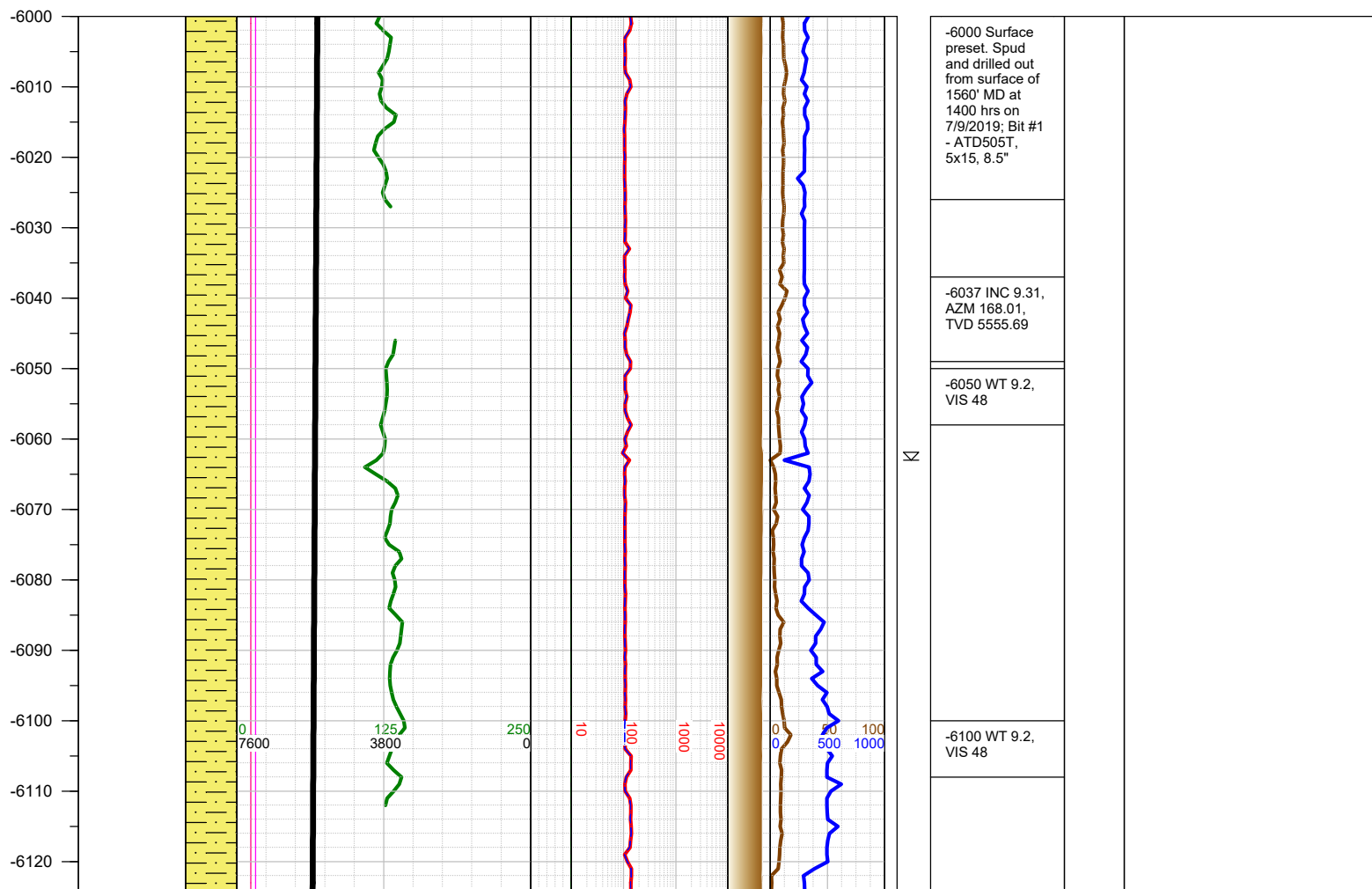
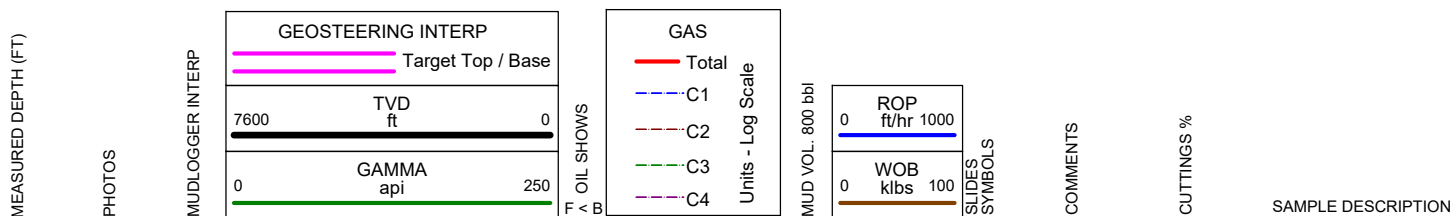
COUNTY: Weld
STATE: Colorado
GROUND ELEVATION: 4898'
KELLY BUSHING: 4923'
DRILLING FLUID: OBM
TVD VS. MD: 7195' / 18919'
SPUD DATE: July 9, 2019
TD DATE: July 13, 2019

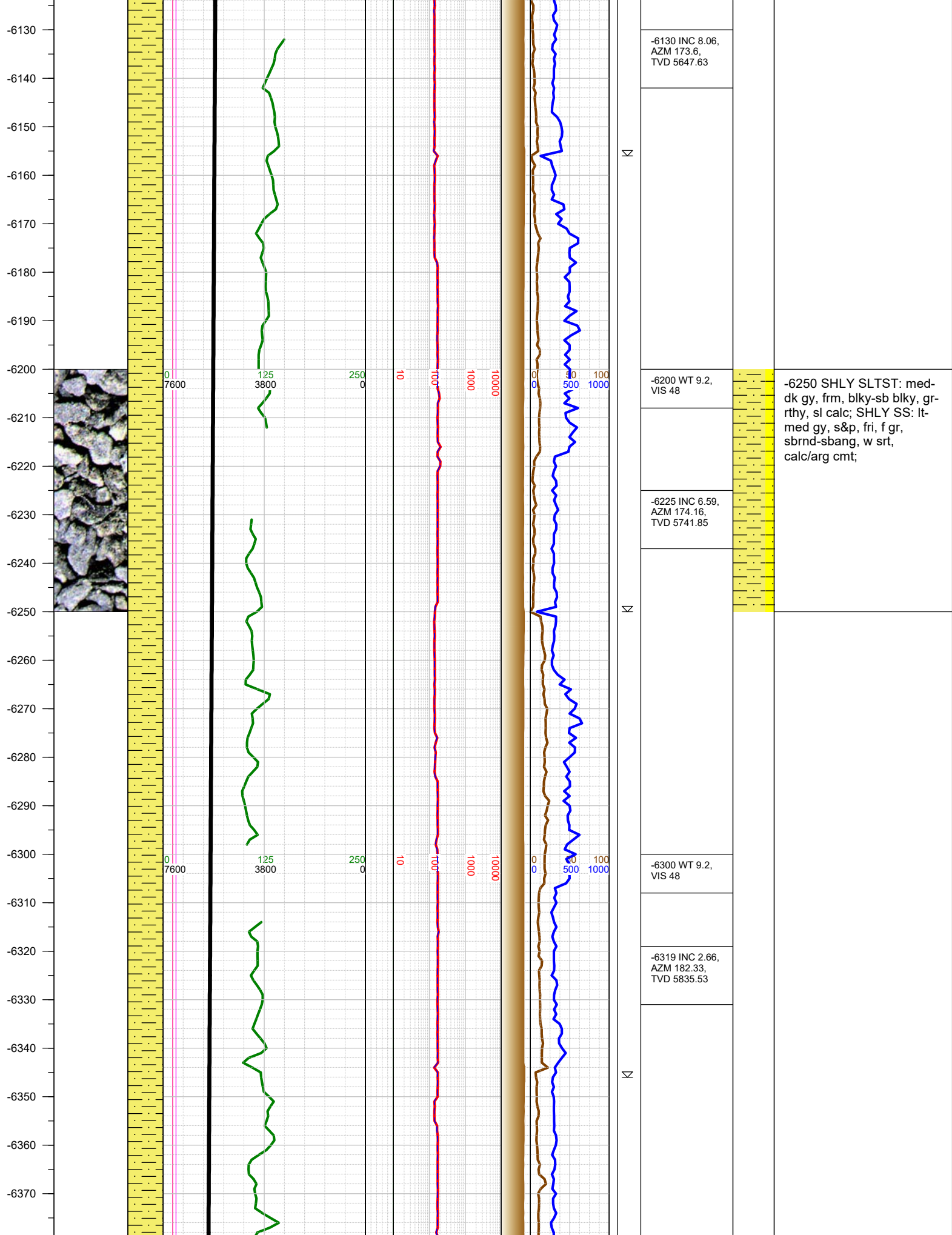
DEPTHS LOGGED: 6000' - 18919'
DATES LOGGED: July 10, 2019 - July 13, 2019
GEOLOGISTS: Zak Lewis, Scott Snoy
SCALE: 5" = 100'

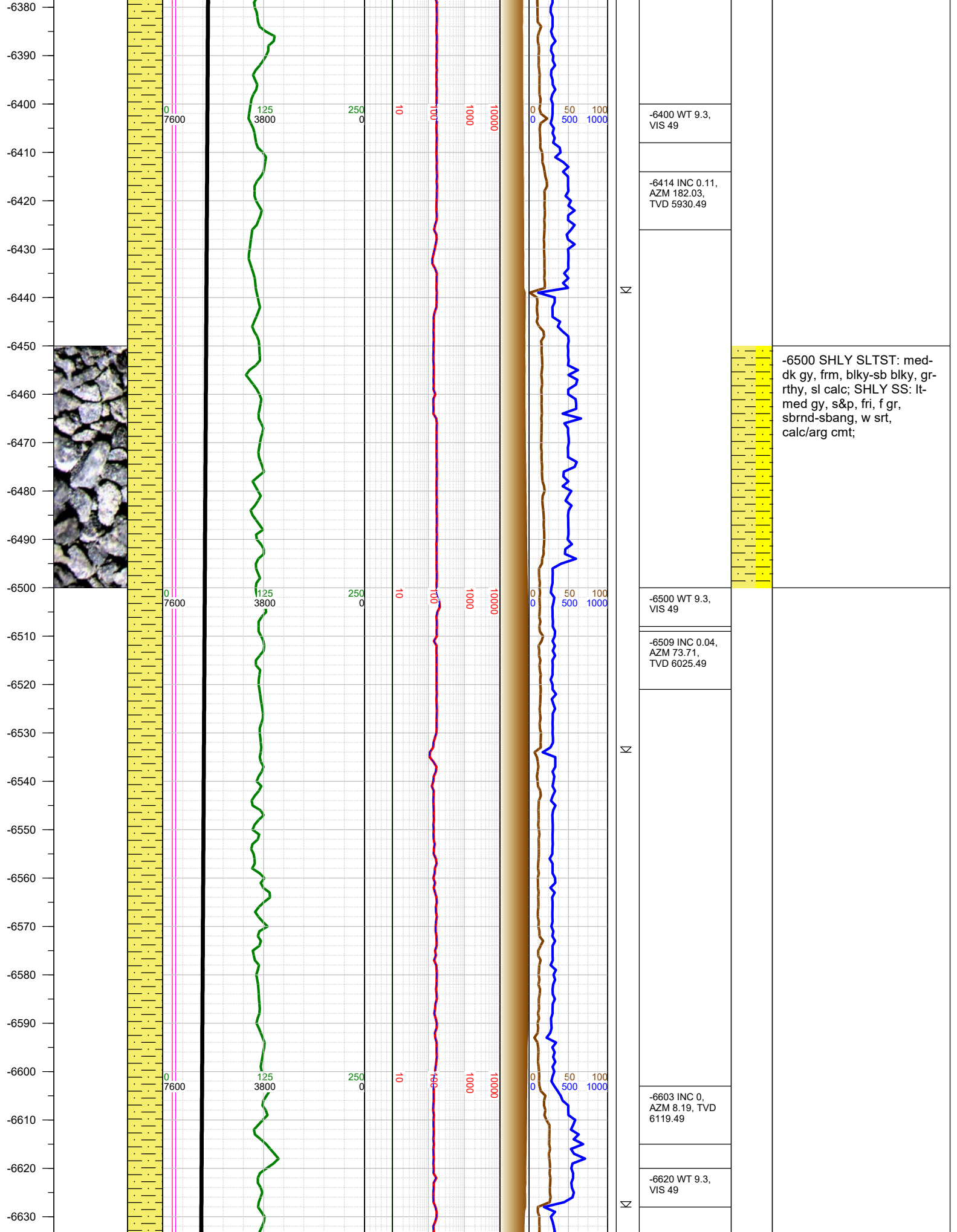
LEGEND

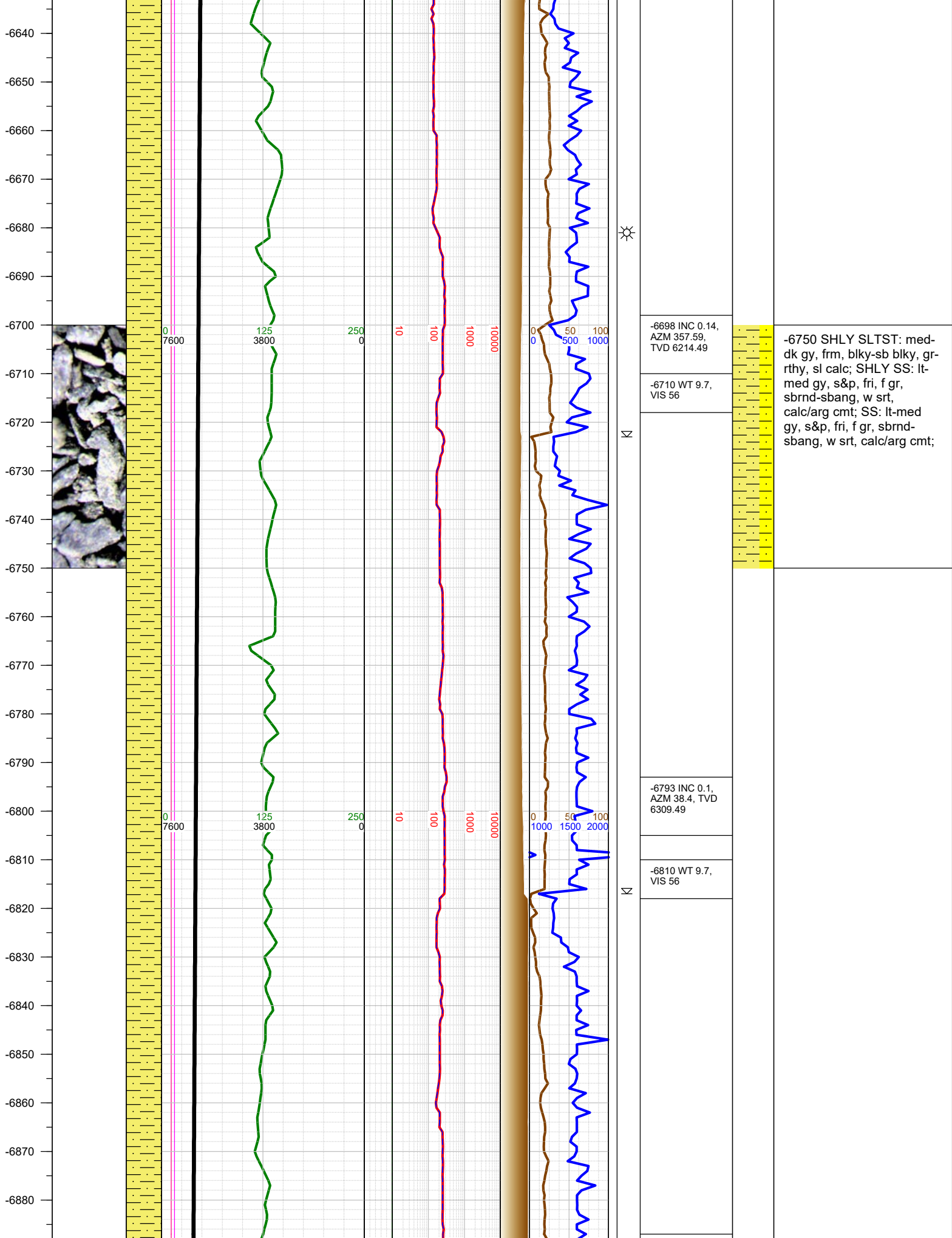


FORMATION CONNECTION MIDNIGHT NEW BIT GAS SHOW FAULT

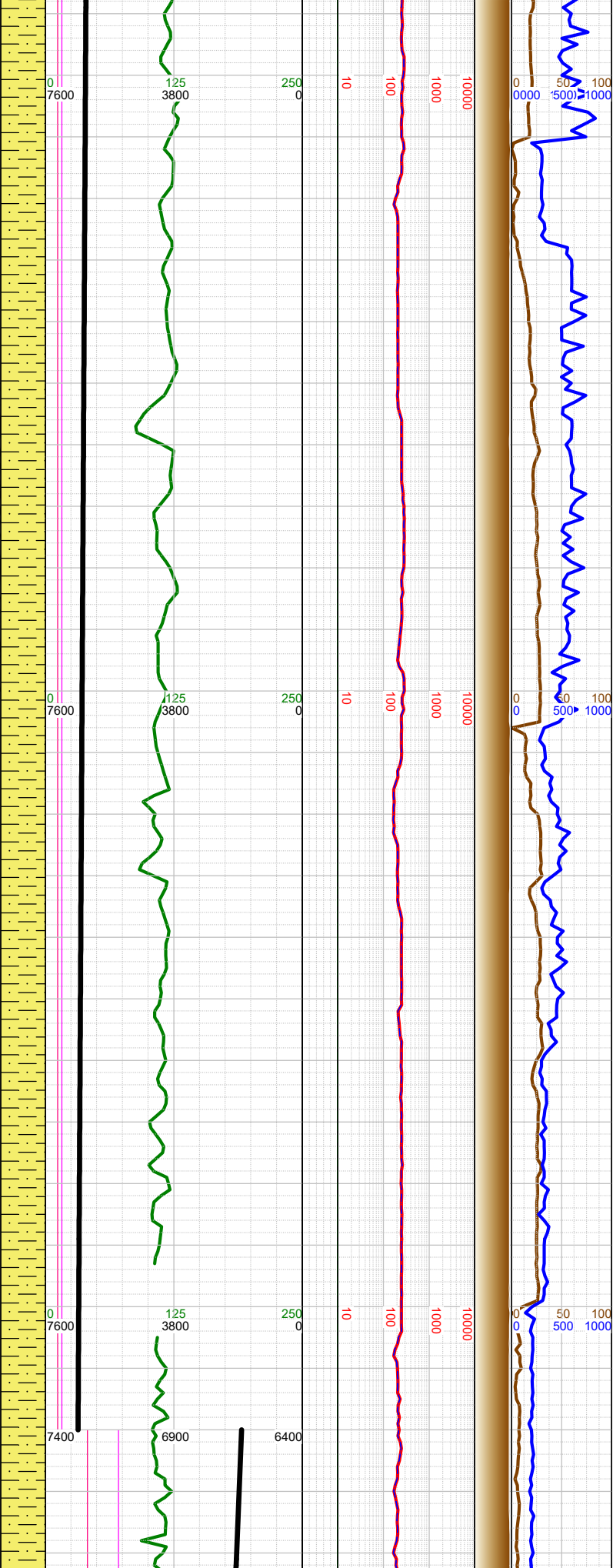
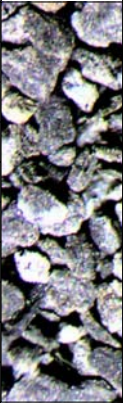




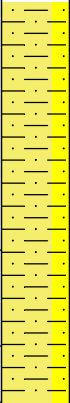




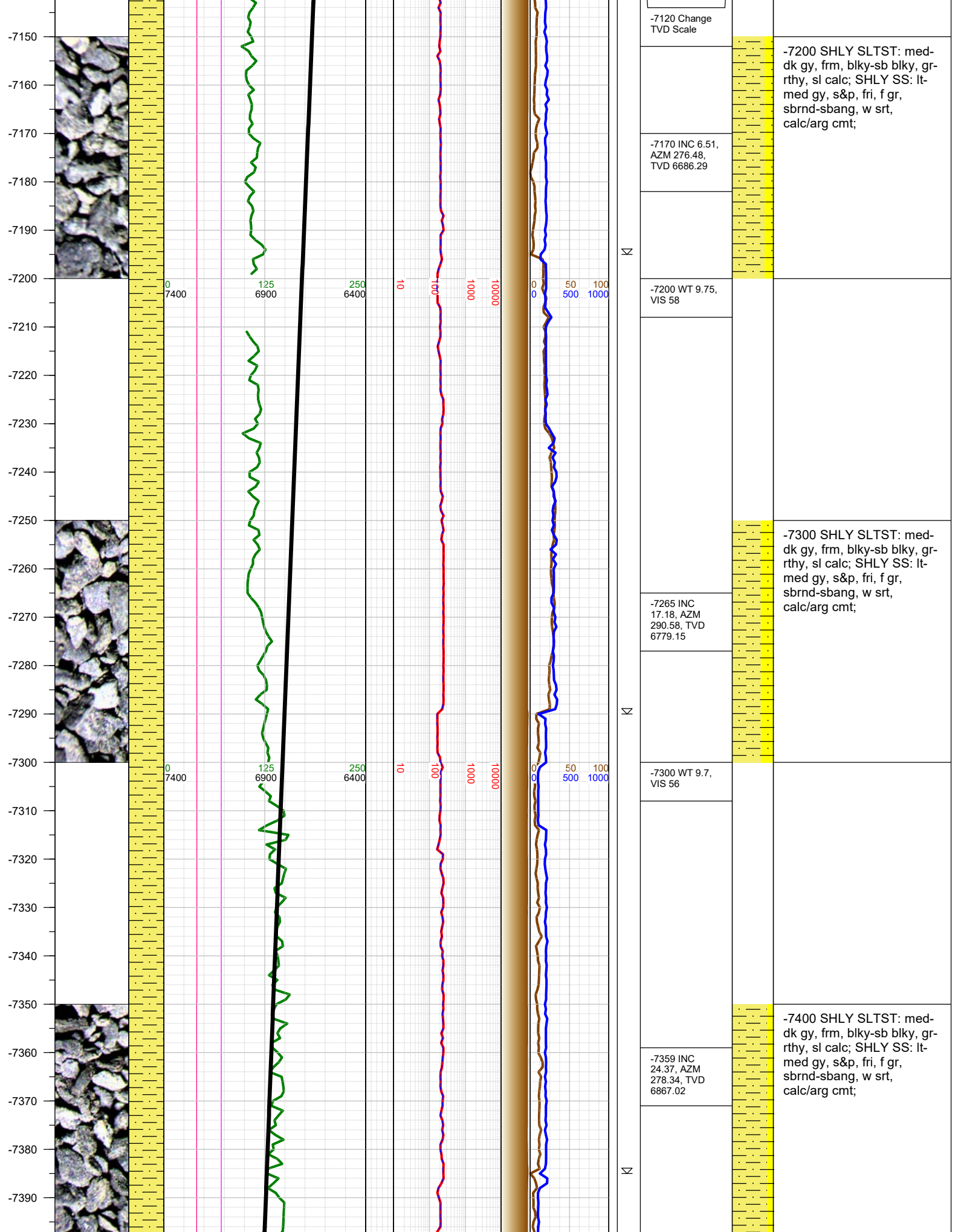
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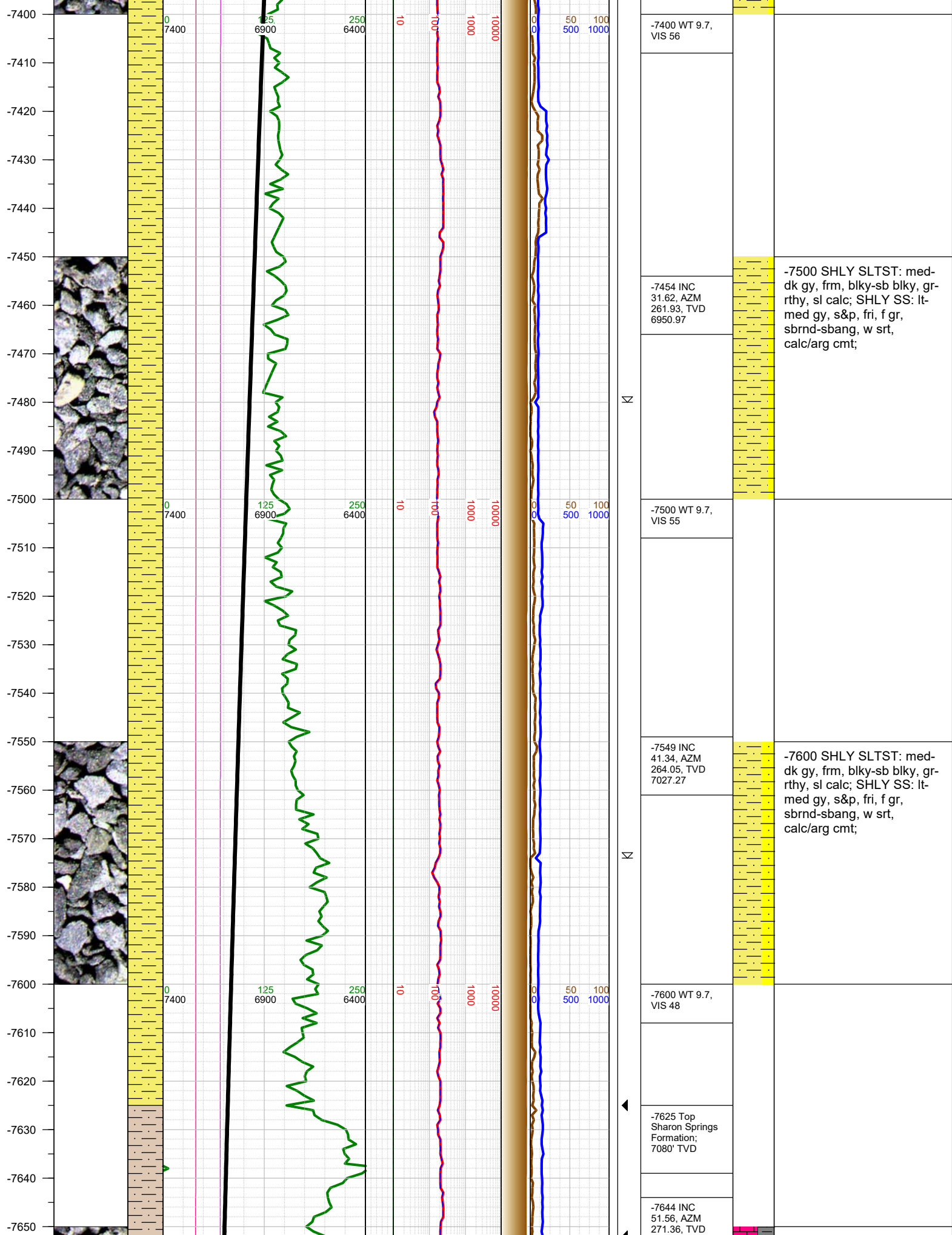


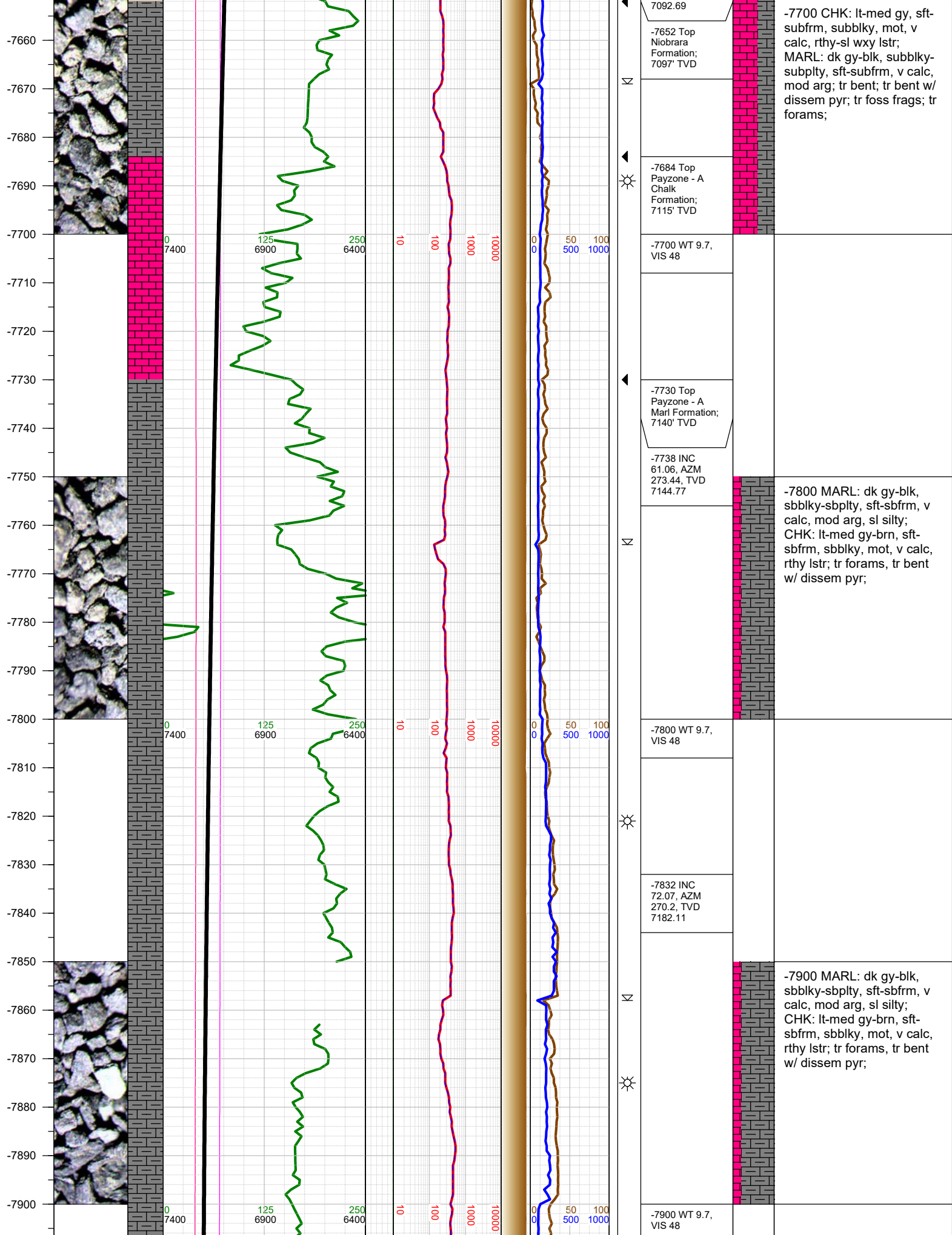
-6887 INC 0.35, AZM 6.22, TVD 6403.49	
-6900 WT 9.7, VIS 56	
N	
-6981 INC 0.15, AZM 131.56, TVD 6497.49	
N	
-7000 WT 9.7, VIS 56	
-7076 INC 0.33, AZM 138.38, TVD 6592.49	
N	
-7100 WT 9.75, VIS 58	
-7120 Reached KOP of 7120' MD, 6636' TVD at 0936 hrs on 7/10/2019 and immediately began drilling the curve.	



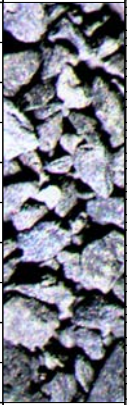
-7000 SHLY SLTST: med-
dk gy, frm, blk-y-sb blk-y, gr-
rthy, sl calc; SHLY SS: lt-
med gy, s&p, fri, f gr,
sbrnd-sbang, w srt,
calc/arg cmt; SS: lt-med
gy, s&p, fri, f gr, sbrnd-
sbang, w srt, calc/arg cmt;







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-8110
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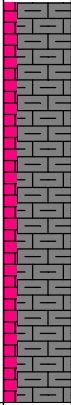
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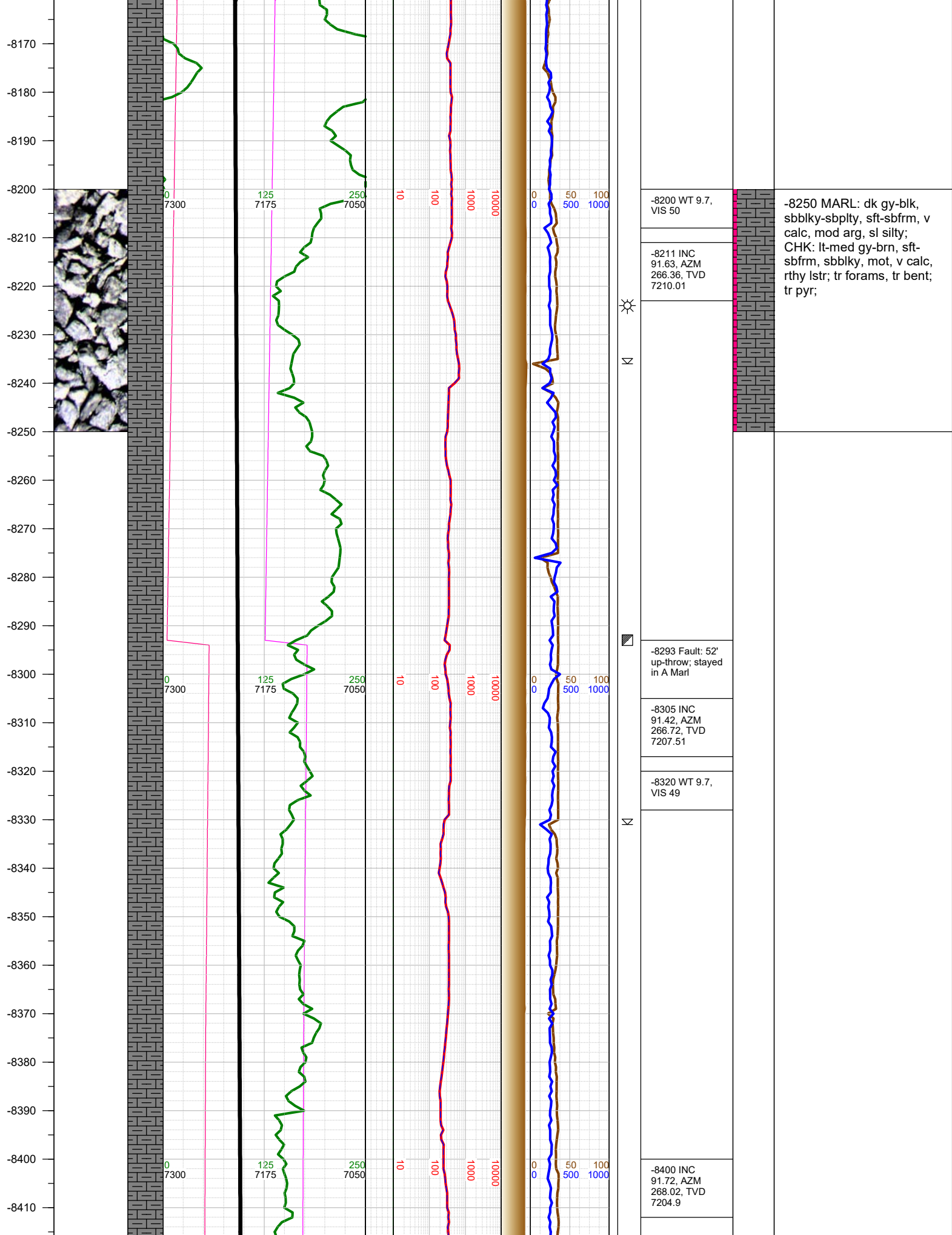
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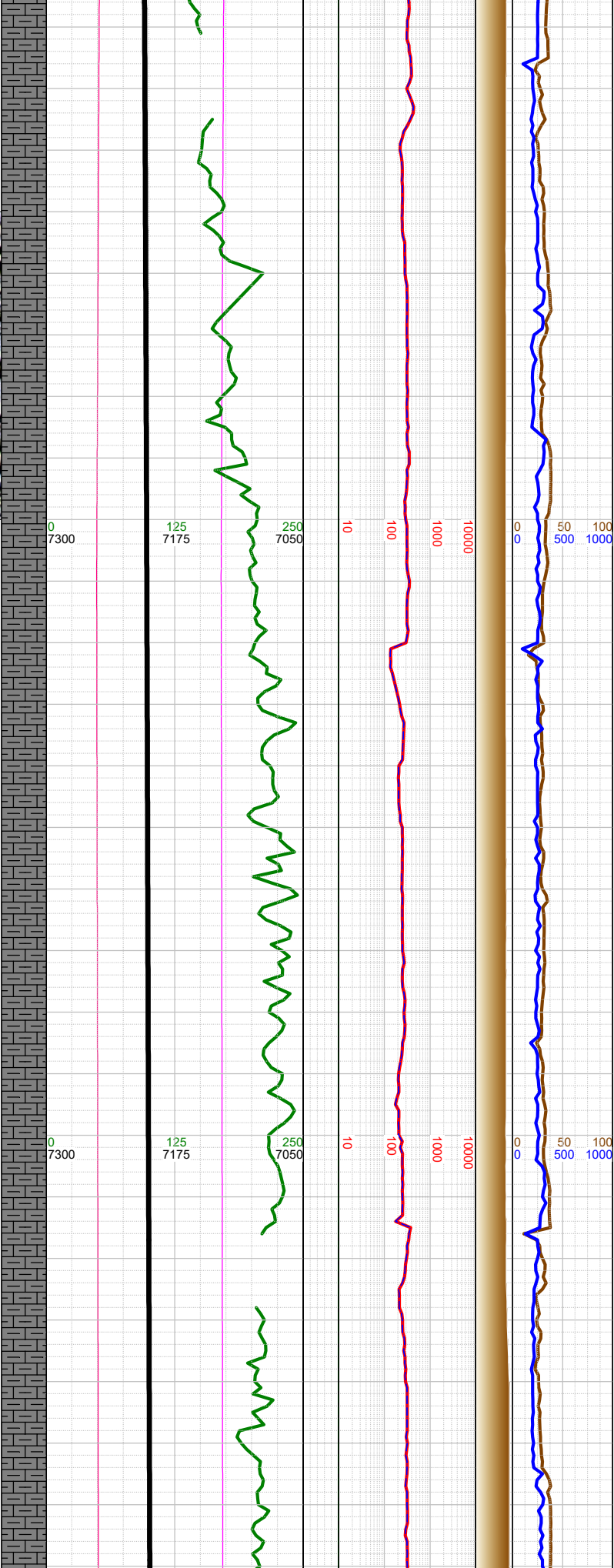
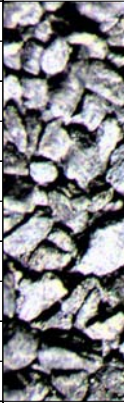
7910 Fault: 43' down-throw; stayed in A Marl
7927 INC 84.05, AZM 268.66, TVD 7201.73
8000 WT 9.7, VIS 48
8022 INC 87.26, AZM 266.57, TVD 7208.92
8047 Reached LP of 8047' MD, 7210' TVD at 1642 hrs on 7/10/2019 and immediately began drilling the lateral.
8047 Change TVD Scale
8100 WT 9.7, VIS 52
8117 INC 89.91, AZM 262.61, TVD 7211.27



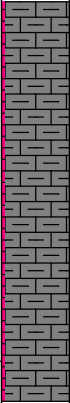
-8000 MARL: dk gy-blk, sbbly-sbply, sft-sbfrm, v calc, mod arg, sl silty; CHK: lt-med gy-brn, sft-sbfrm, sbbly, mot, v calc, rthy lstr; tr forams, mod bent w/ dissem pyr;



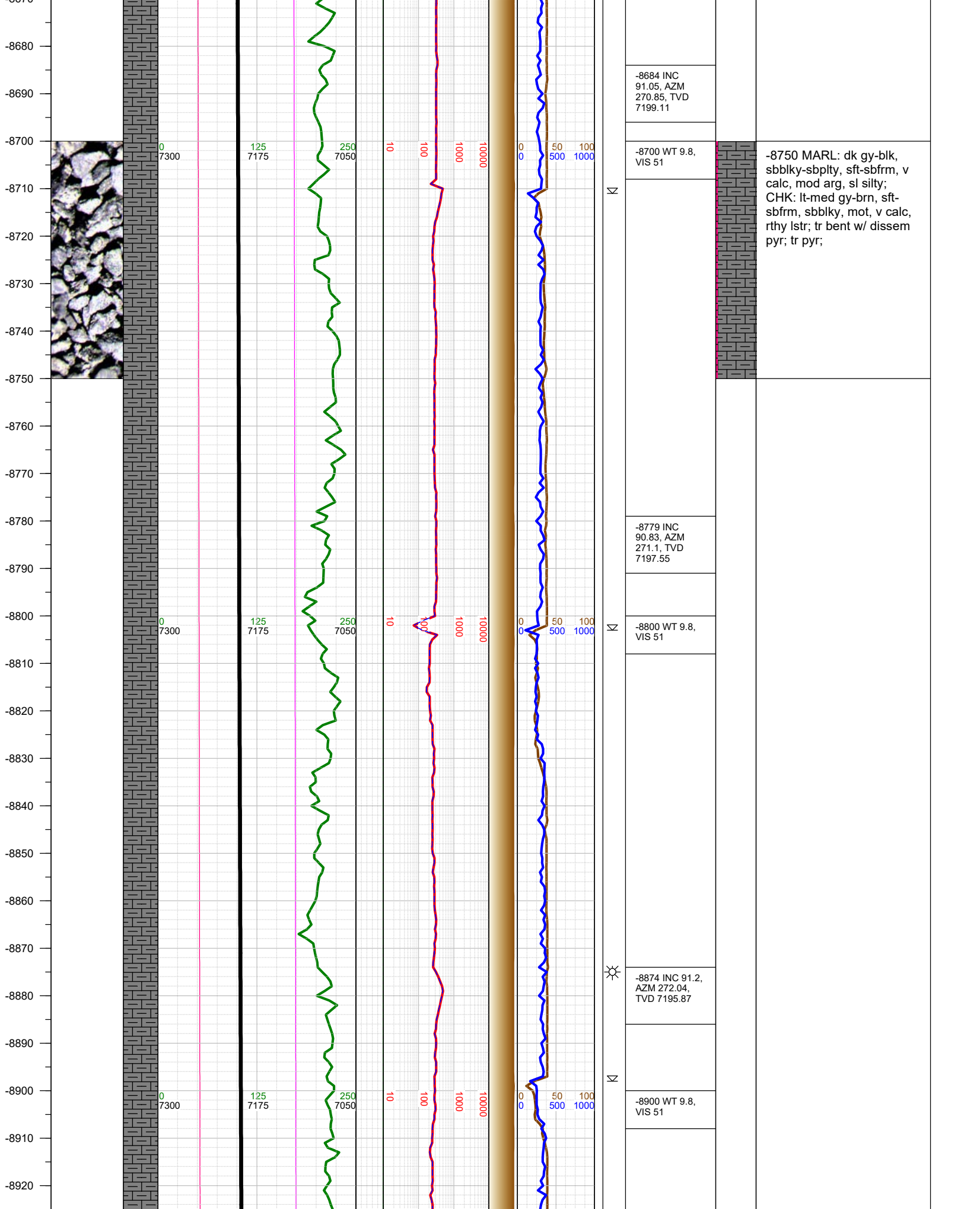
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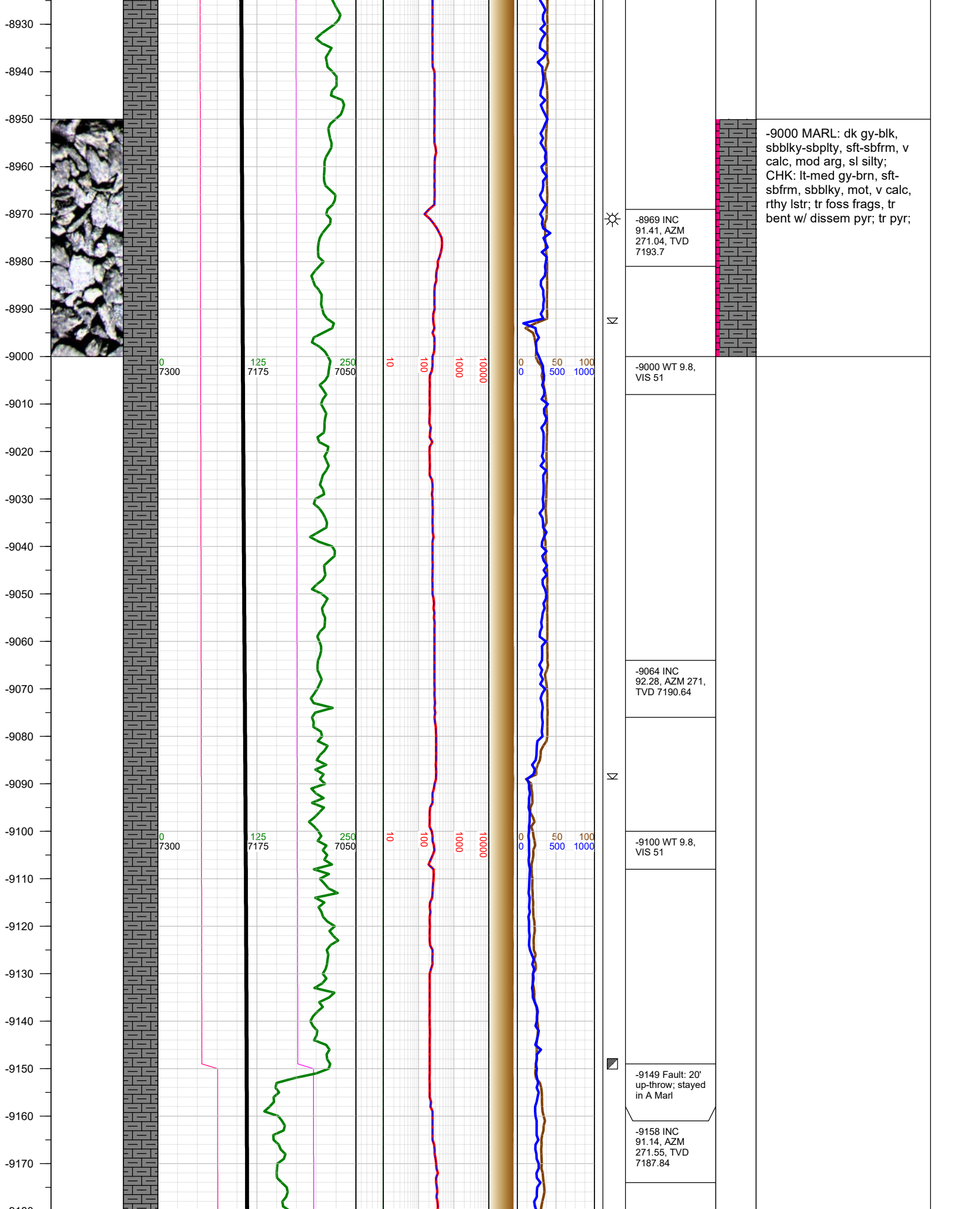


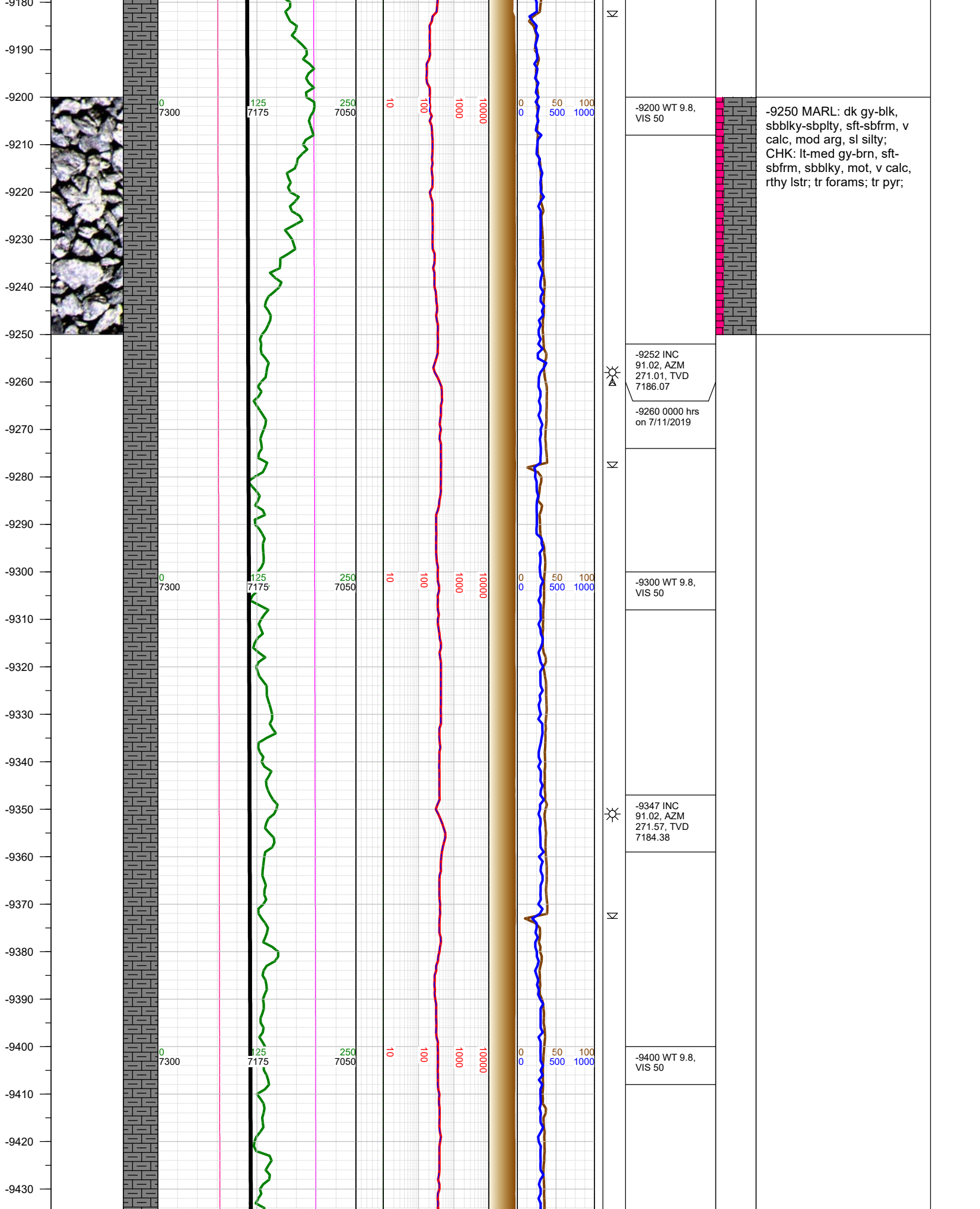
N	-8420 WT 9.8, VIS 50
N	-8495 INC 91.14, AZM 263.83, TVD 7202.53
N	-8510 WT 9.8, VIS 49
N	-8589 INC 90.98, AZM 268.15, TVD 7200.79
N	-8610 WT 9.8, VIS 51

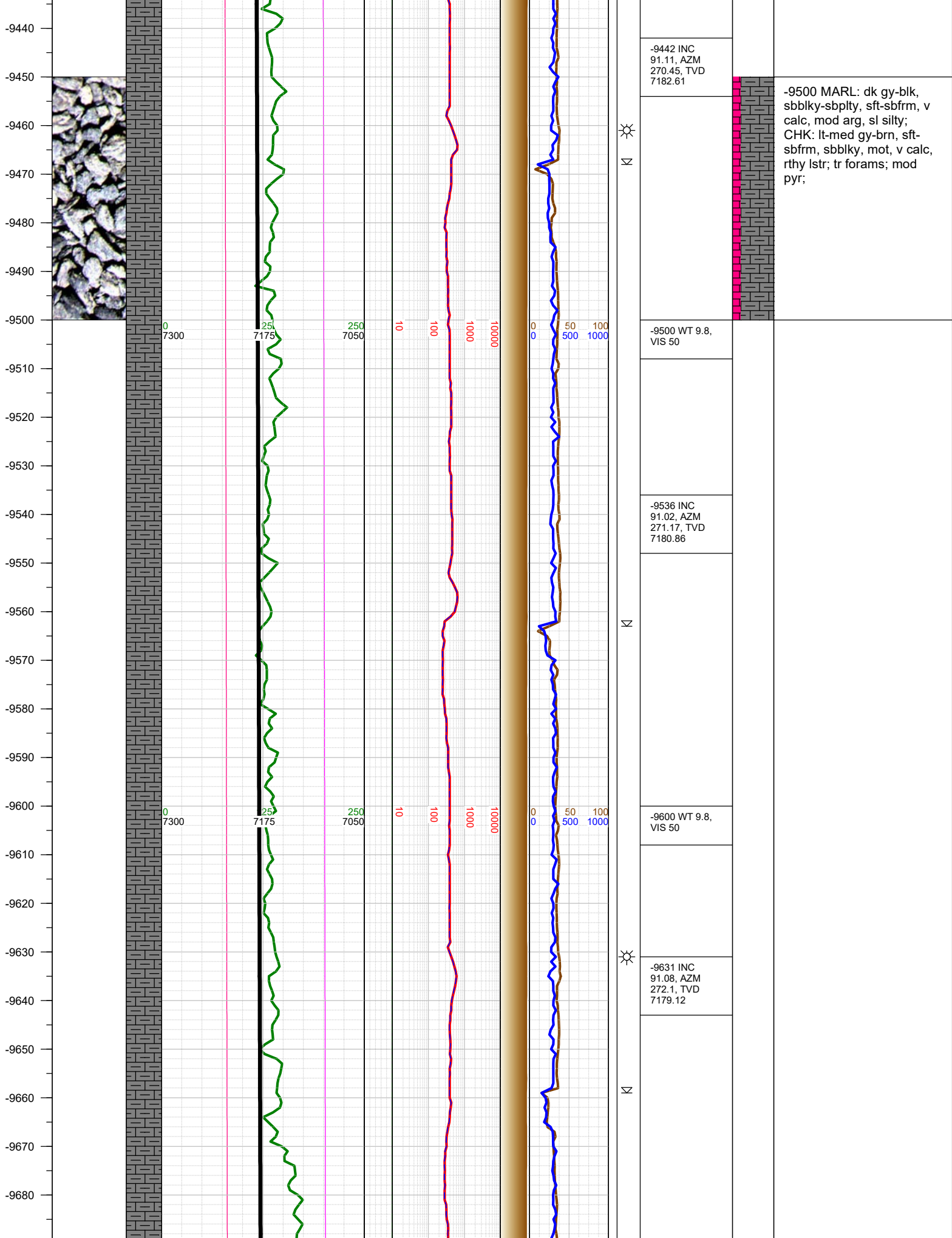


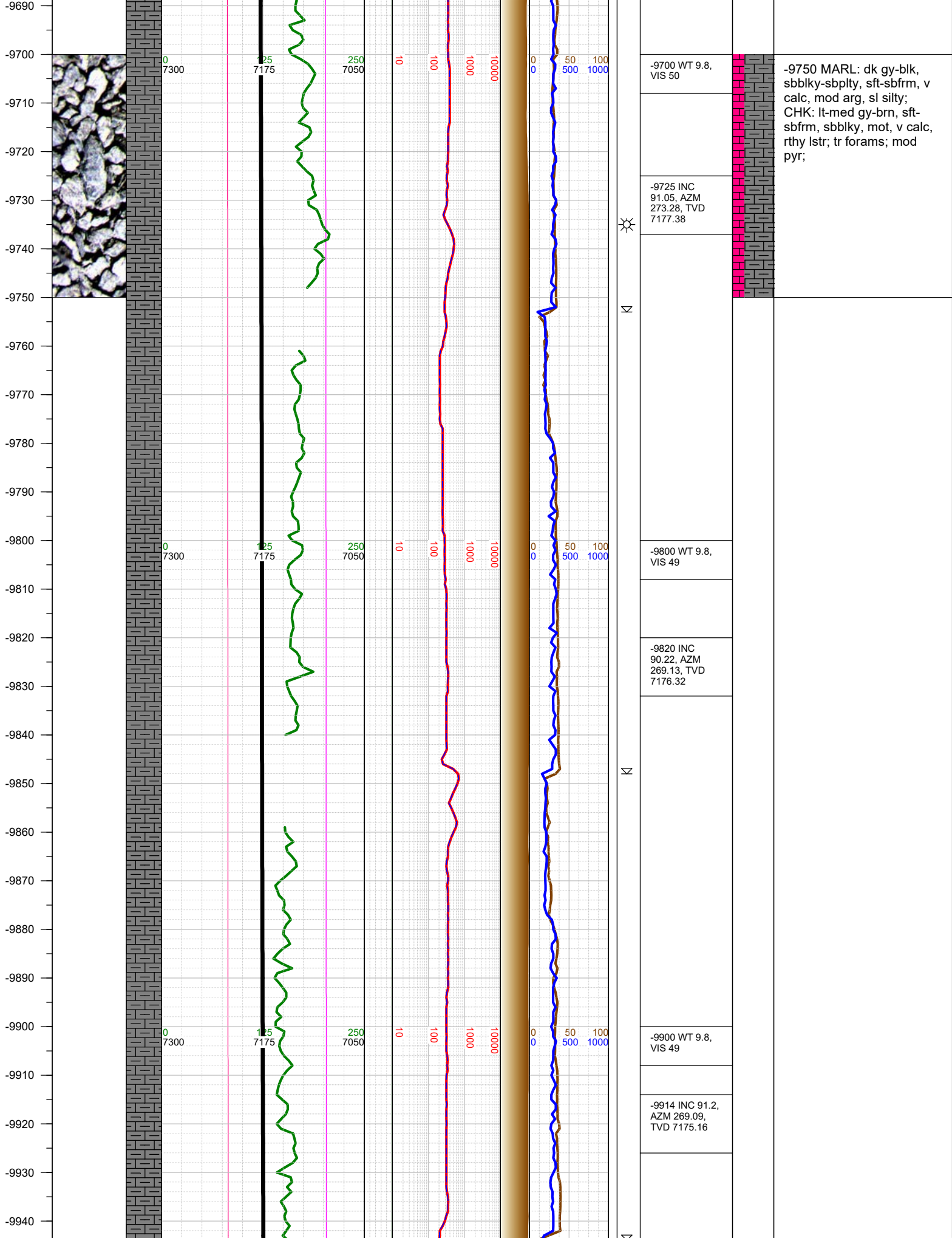
-8500 MARL: dk gy-blk, sbblky-sbpity, sft-sbfrm, v calc, mod arg, sl silty; CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr bent w/ dissem pyr; tr pyr;

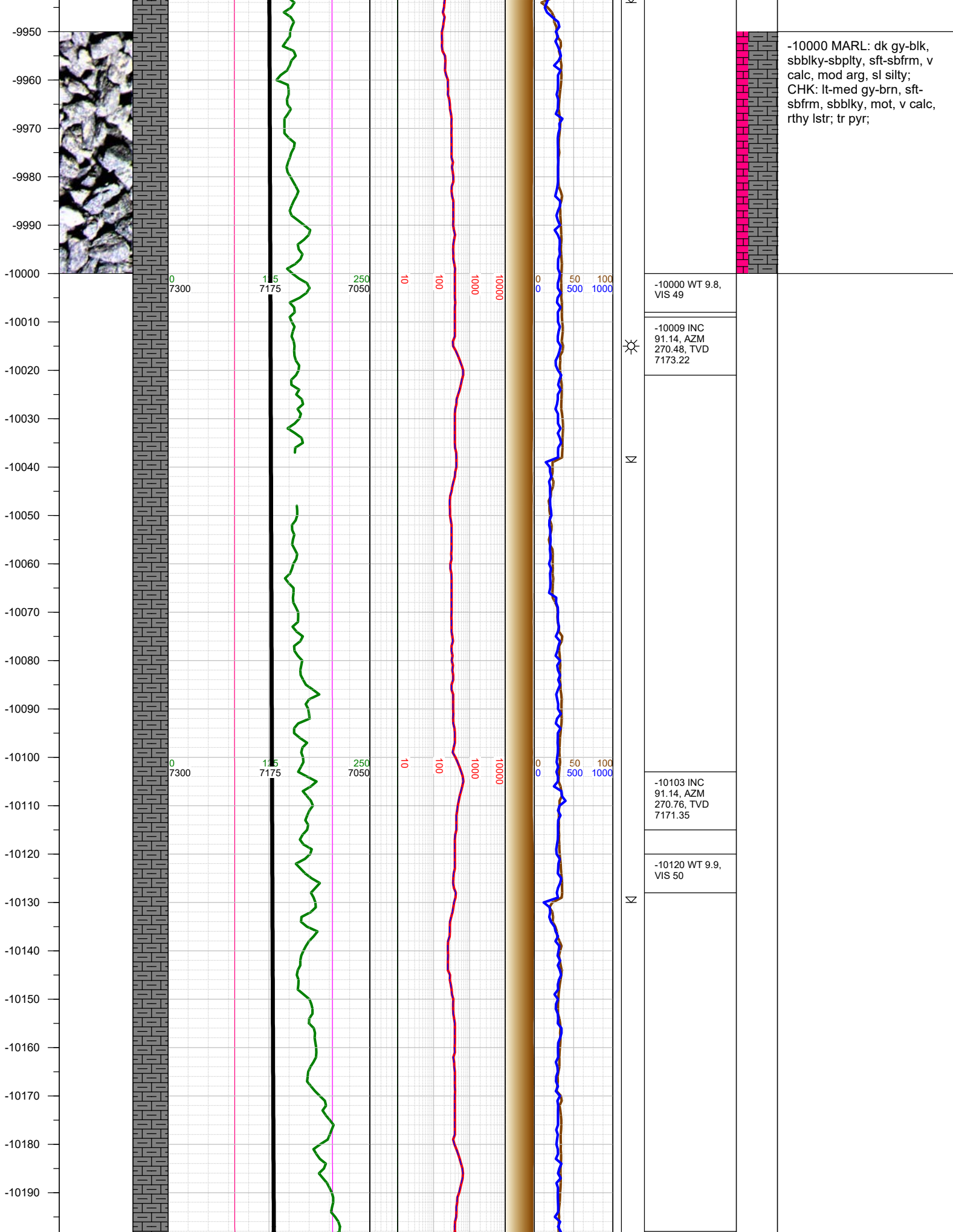


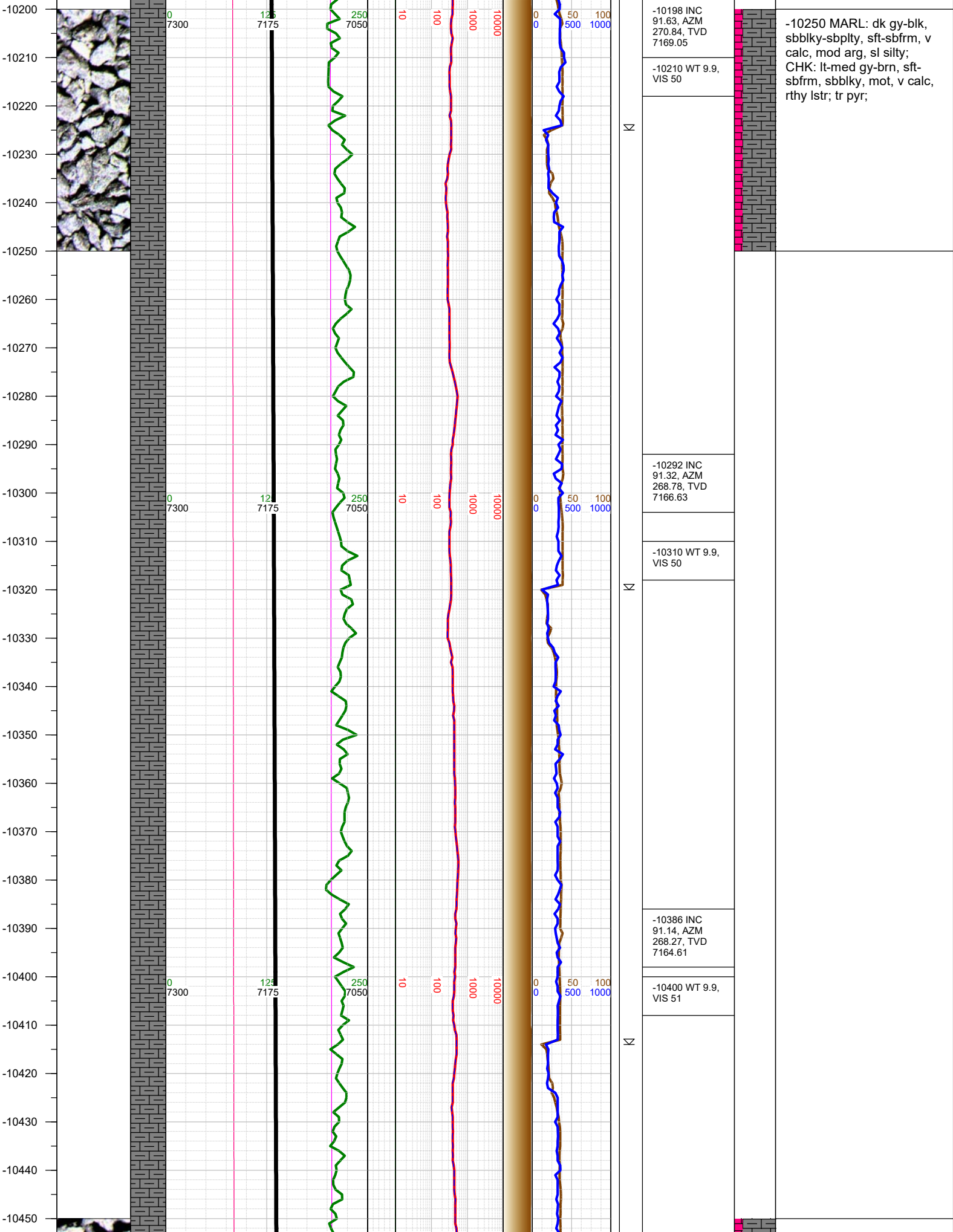


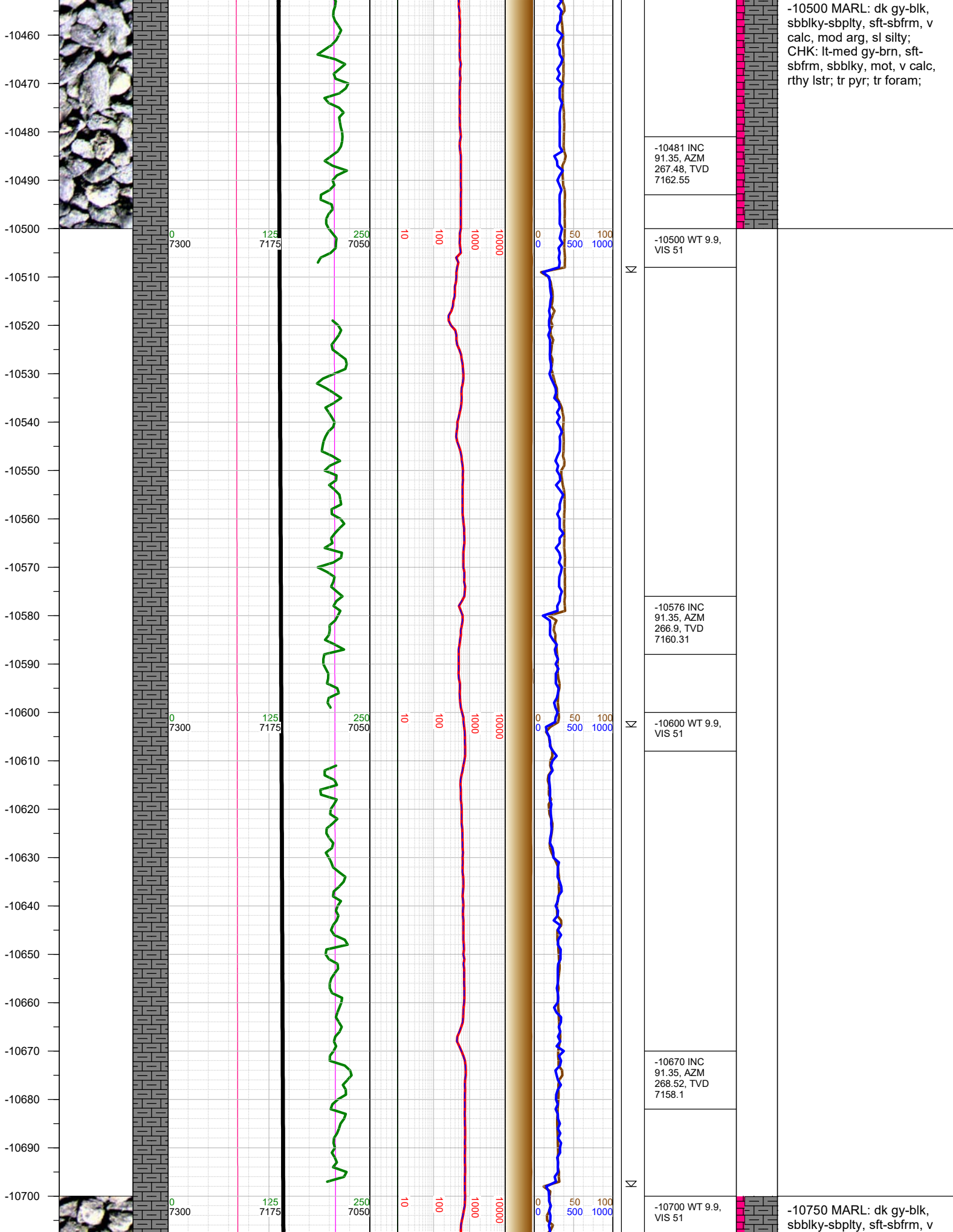


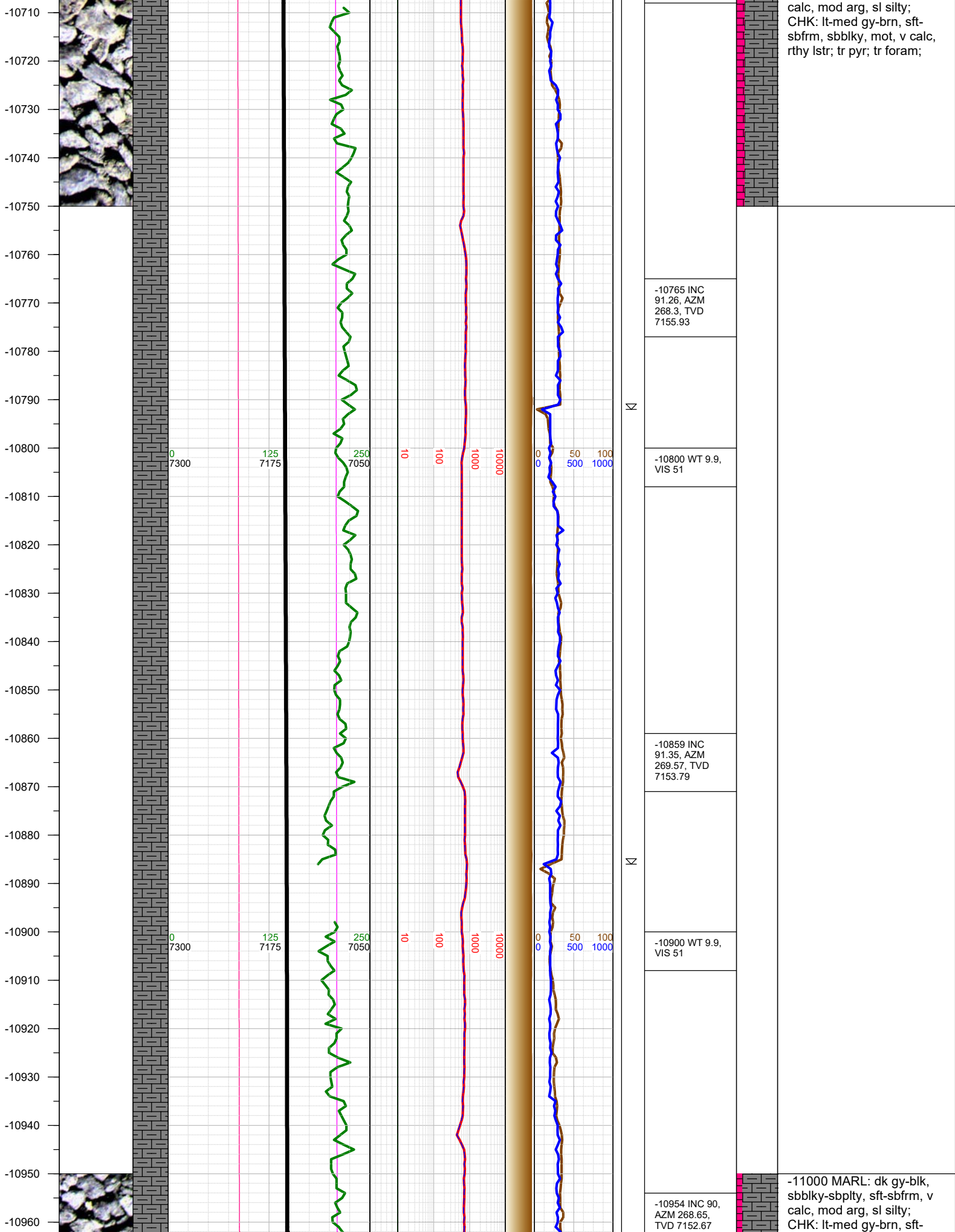


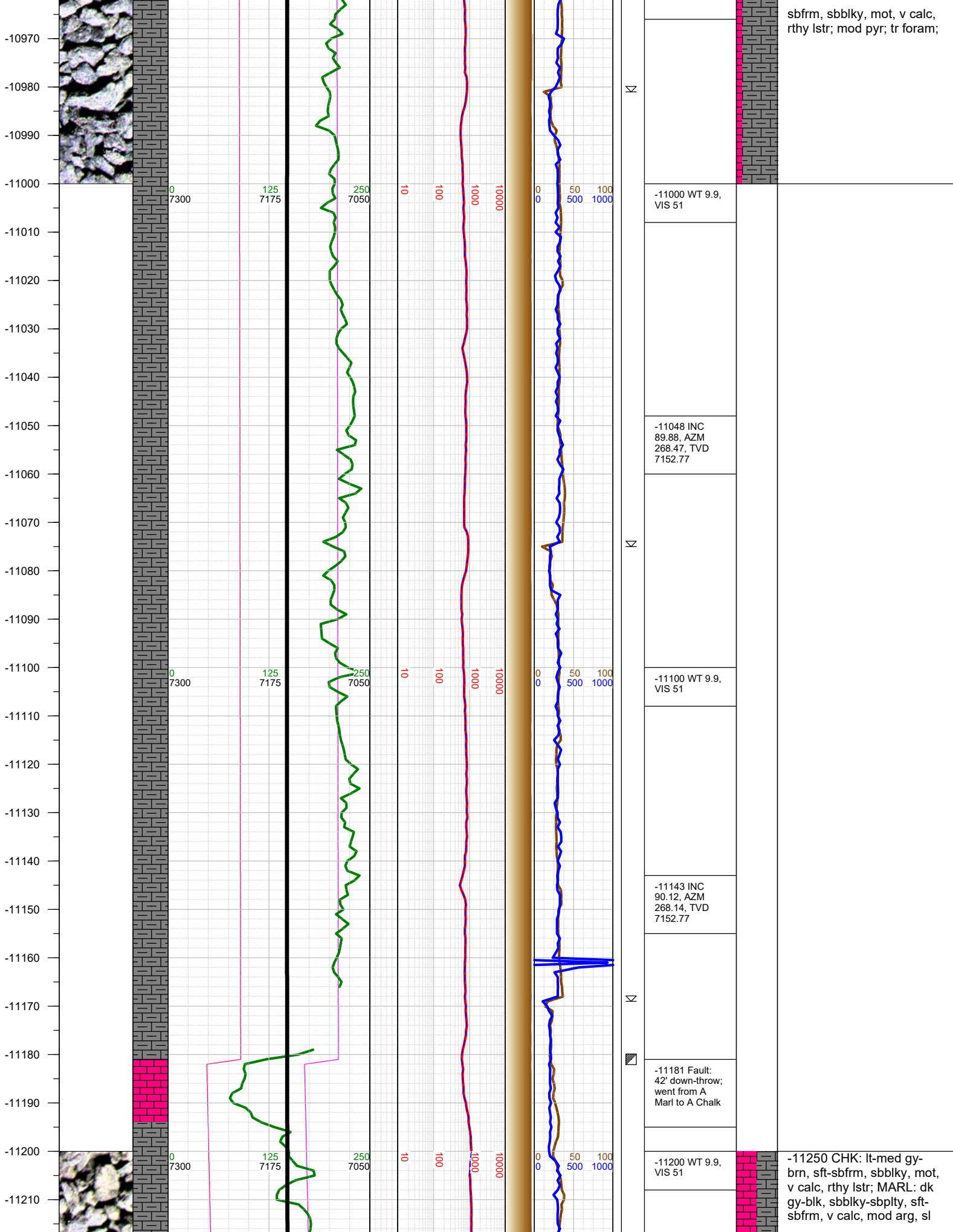


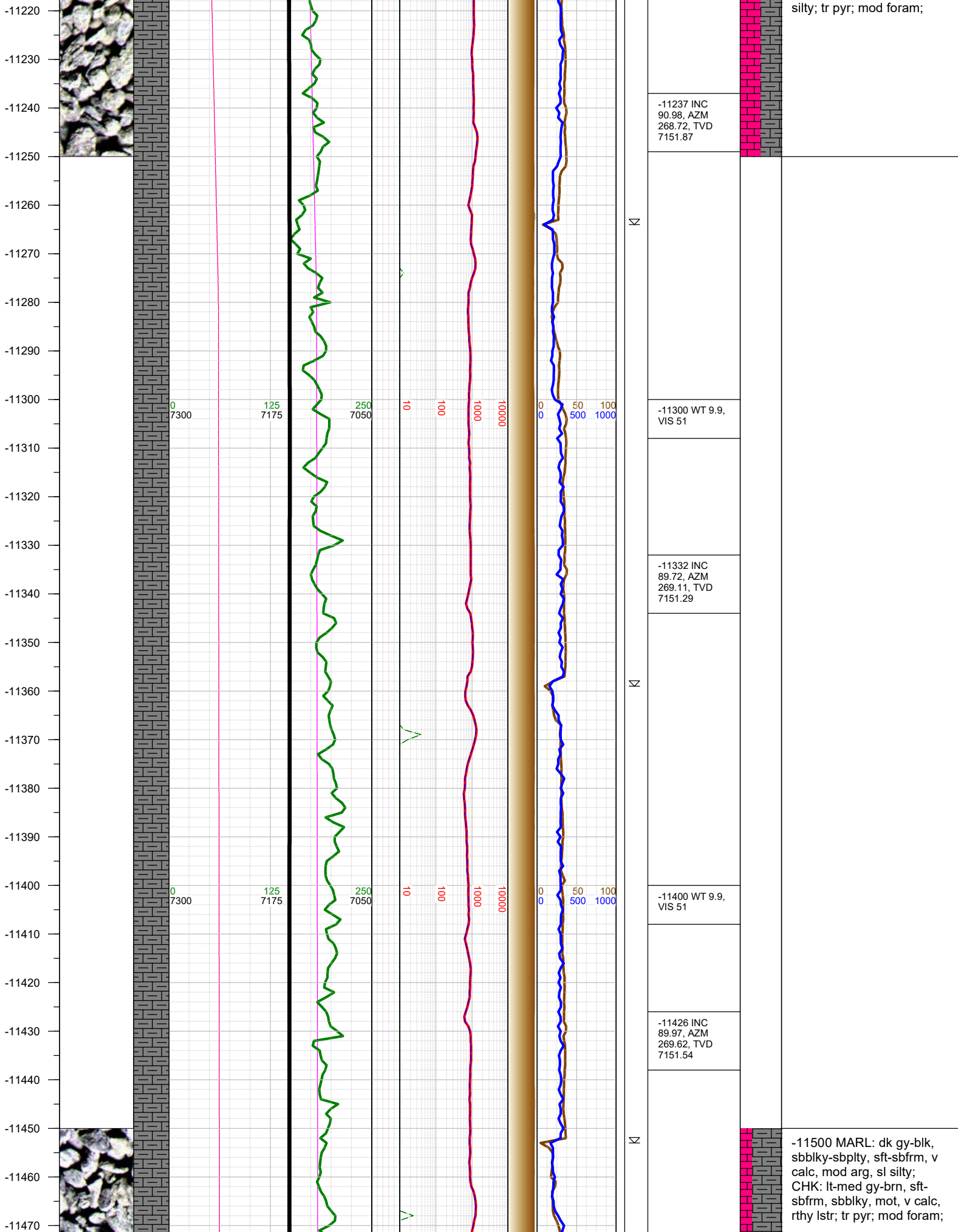


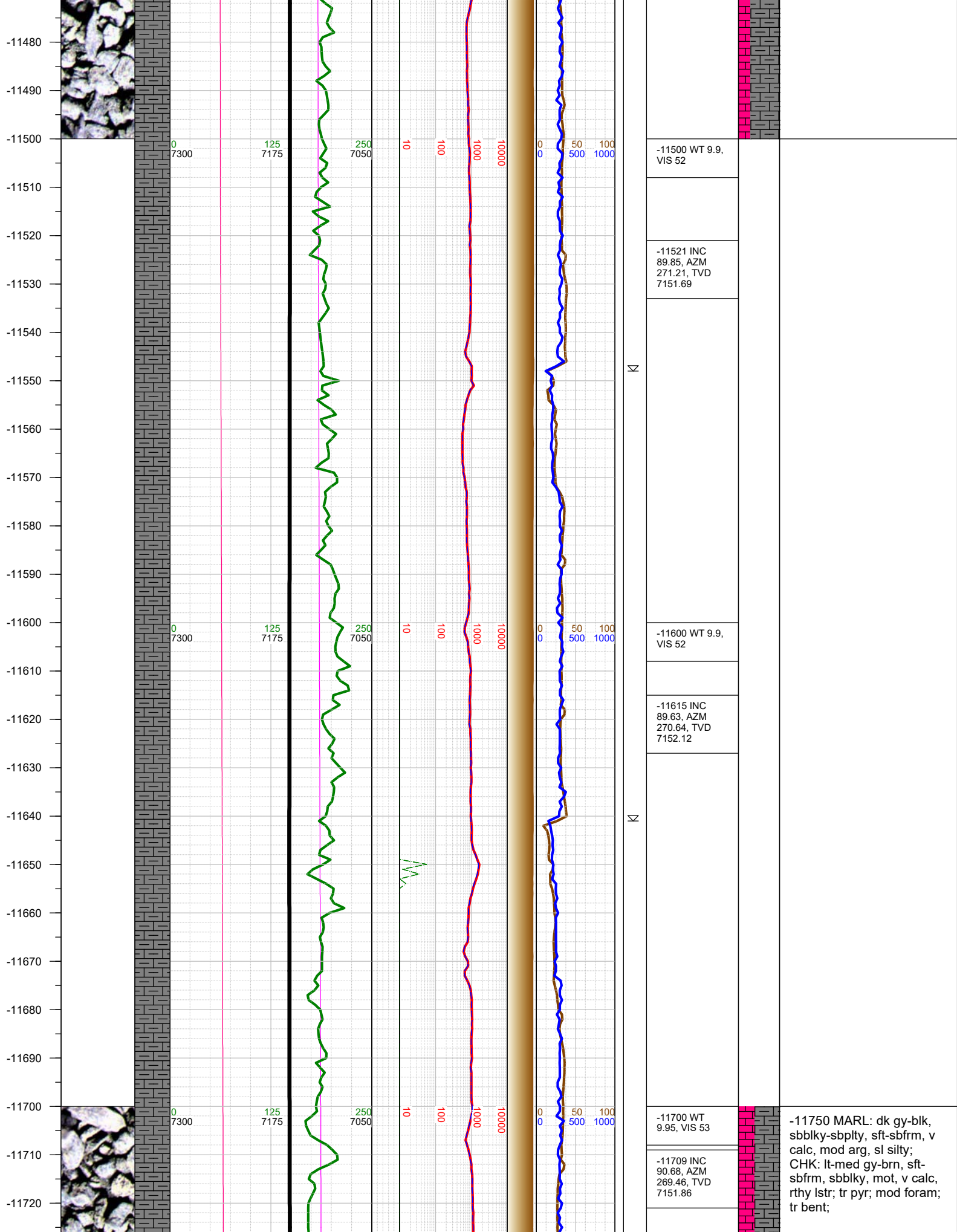




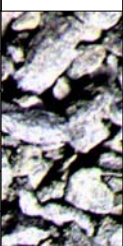
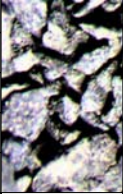








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-11790 WT
9.95, VIS 53

▨

-11804 INC
90.37, AZM
272.76, TVD
7150.99

-11805 Fault:
15' up-throw;
stayed in A Marl

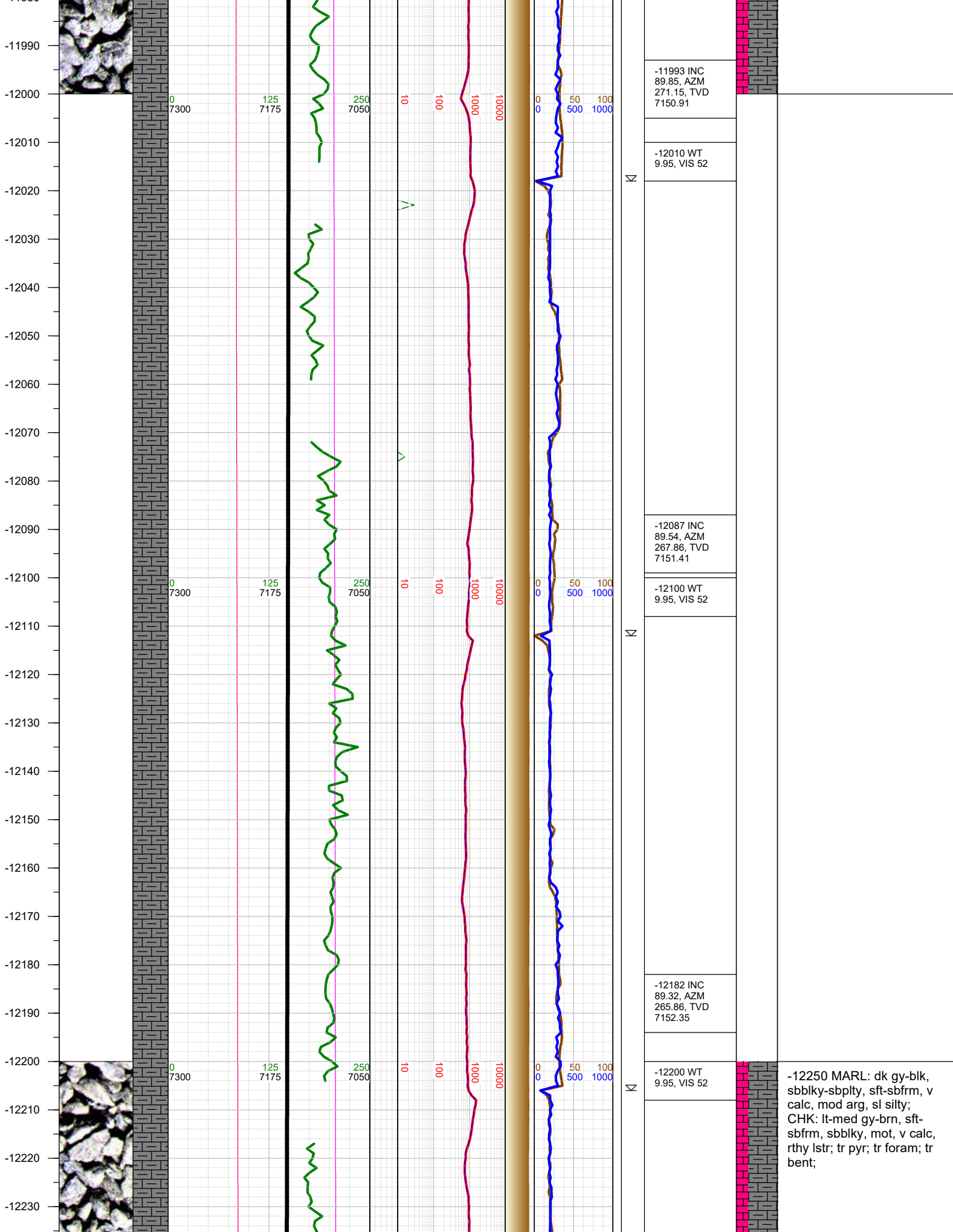
Δ

-11899 INC
89.94, AZM
273.34, TVD
7150.74

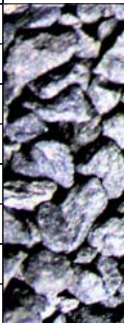
Δ

-11920 WT
9.95, VIS 53

-12000 MARL: dk gy-blk,
sbbly-sbply, sft-sbfrm, v
calc, mod arg, sl silty;
CHK: lt-med gy-brn, sft-
sbfrm, sbbly, mot, v calc,
rthy lstr; tr pyr; tr foram; tr
bent;



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-12277 INC
89.42, AZM
264.48, TVD
7153.4

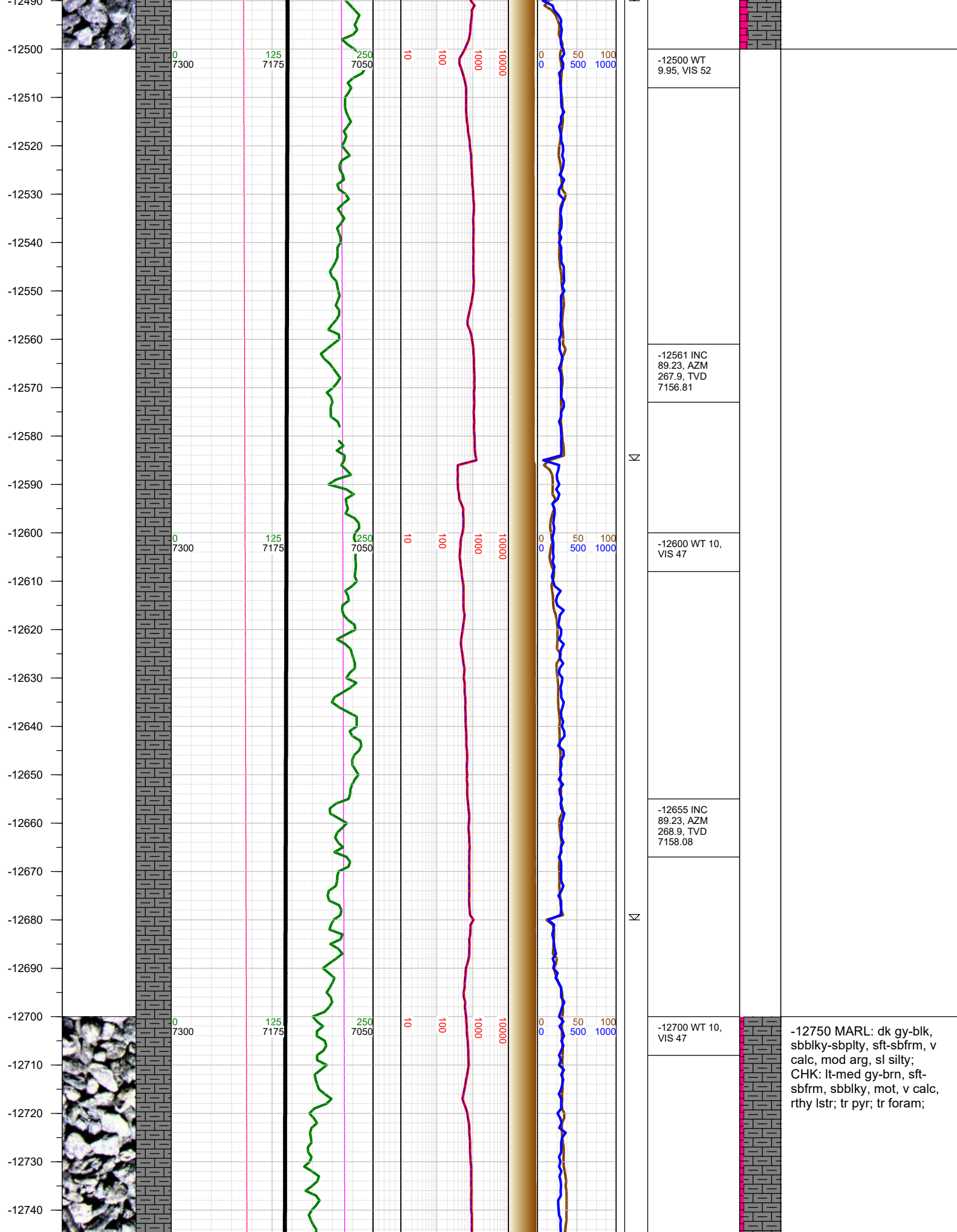
-12300 WT
9.95, VIS 52

-12371 INC
89.38, AZM
265.96, TVD
7154.38

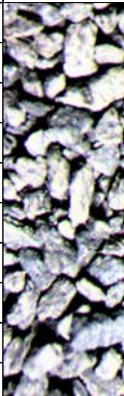
-12400 WT
9.95, VIS 52

-12466 INC
89.23, AZM
267.72, TVD
7155.54

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



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-12750 INC
89.32, AZM
269.43, TVD
7159.28

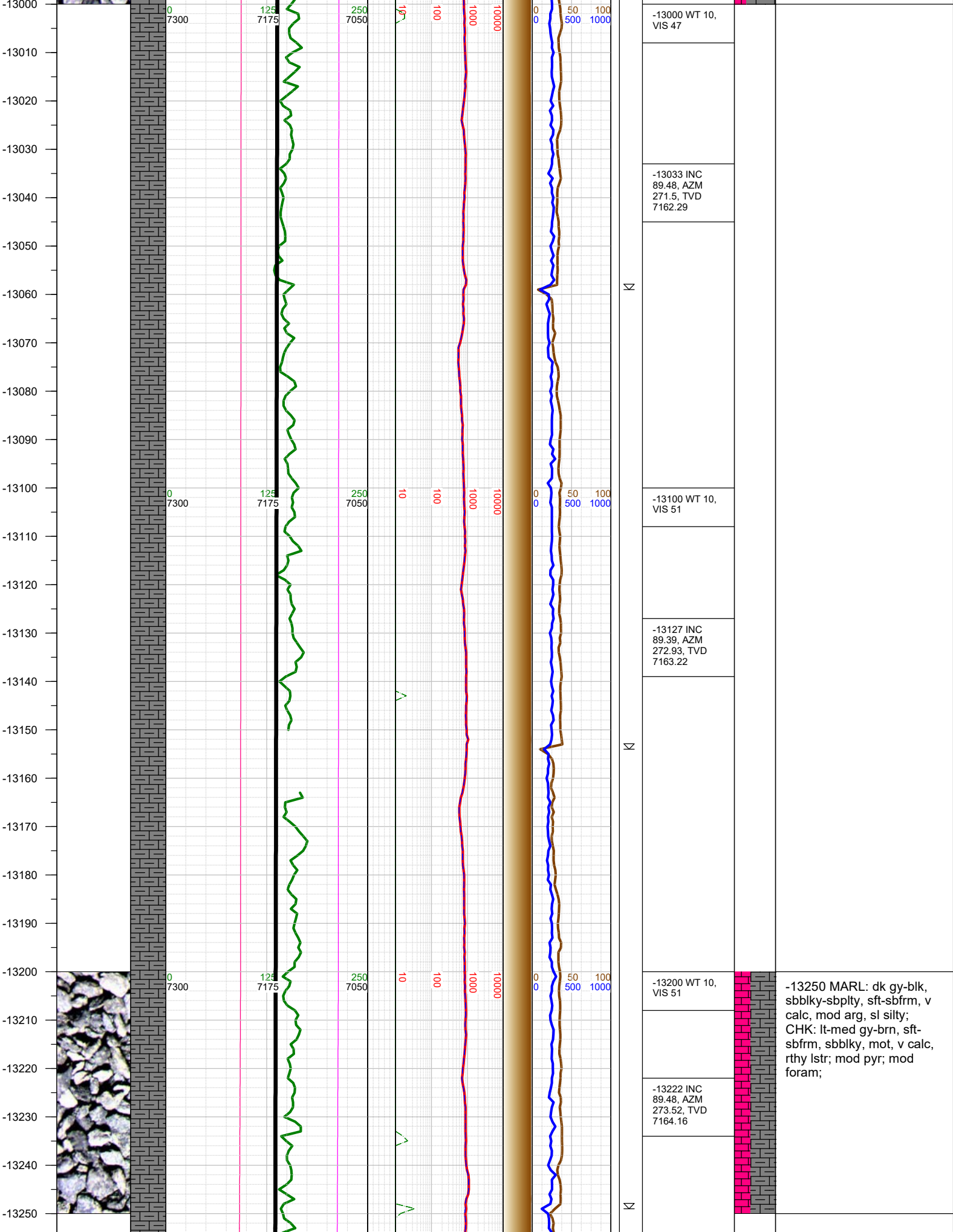
-12800 WT 10,
VIS 47

-12845 INC
89.29, AZM
269.55, TVD
7160.43

-12900 WT 10,
VIS 47

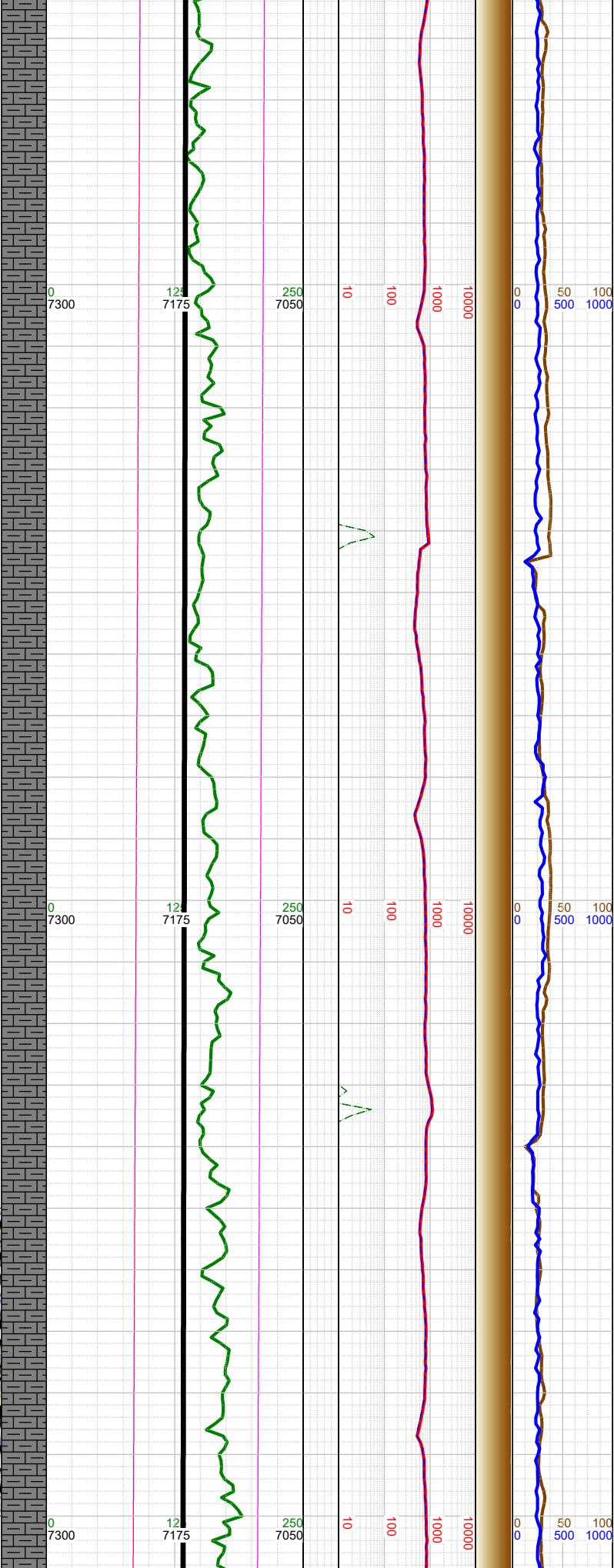
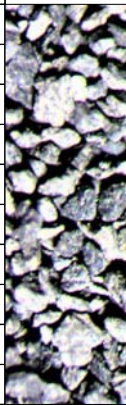
-12939 INC
89.48, AZM
270.07, TVD
7161.44

-13000 MARL: dk gy-blk,
sbbiky-sbpity, sft-sbfrm, v
calc, mod arg, sl silty;
CHK: lt-med gy-brn, sft-
sbfrm, sbbiky, mot, v calc,
rthy lstr; tr pyr; mod foram;



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

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-13500



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-13300 WT 10,
VIS 51

-13317 INC
89.45, AZM
272.74, TVD
7165.04

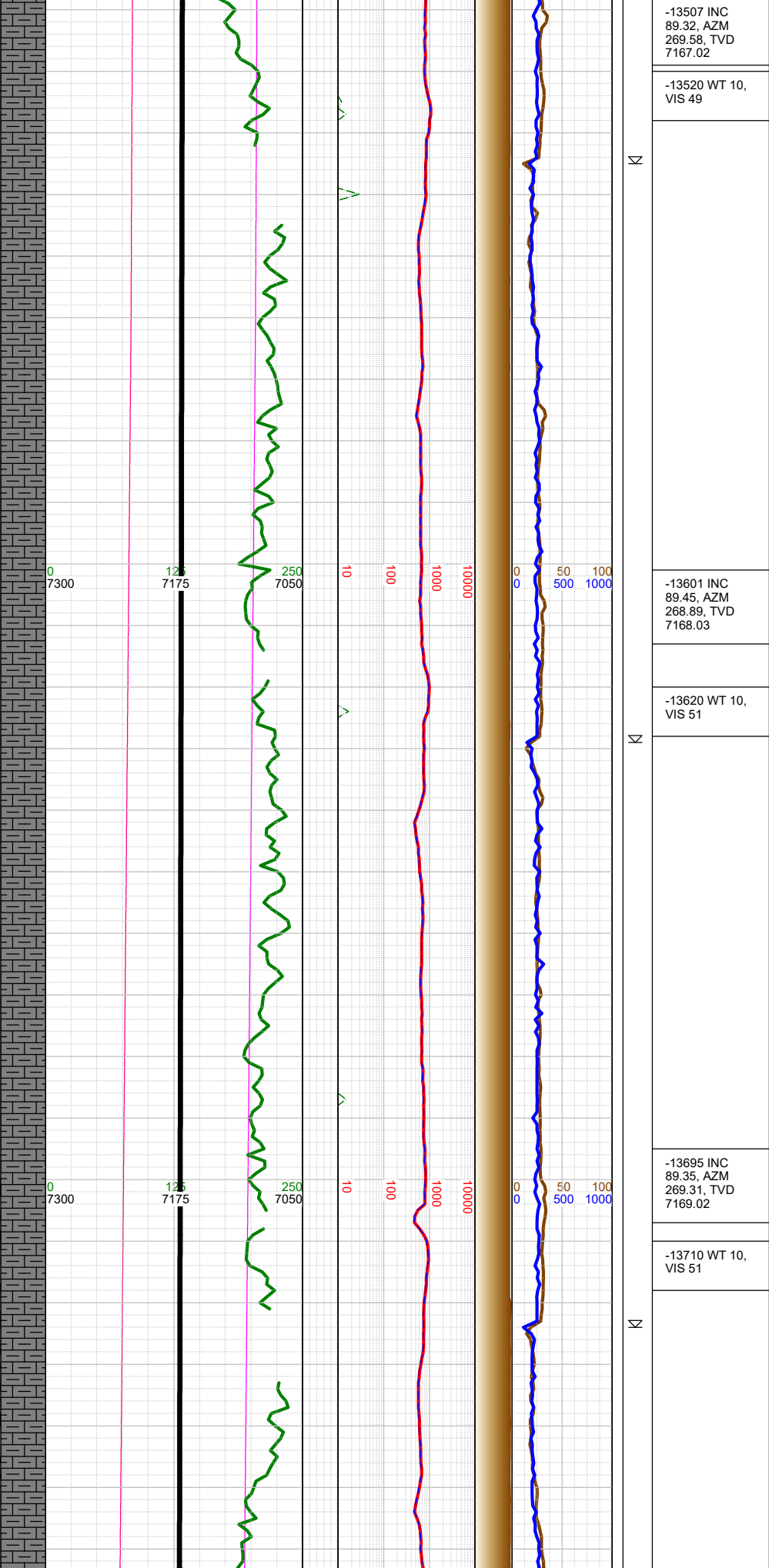
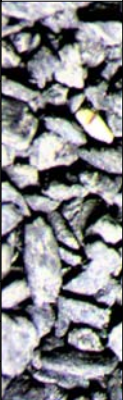
-13342 0000 hrs
on 7/12/2019

-13400 WT 10,
VIS 49

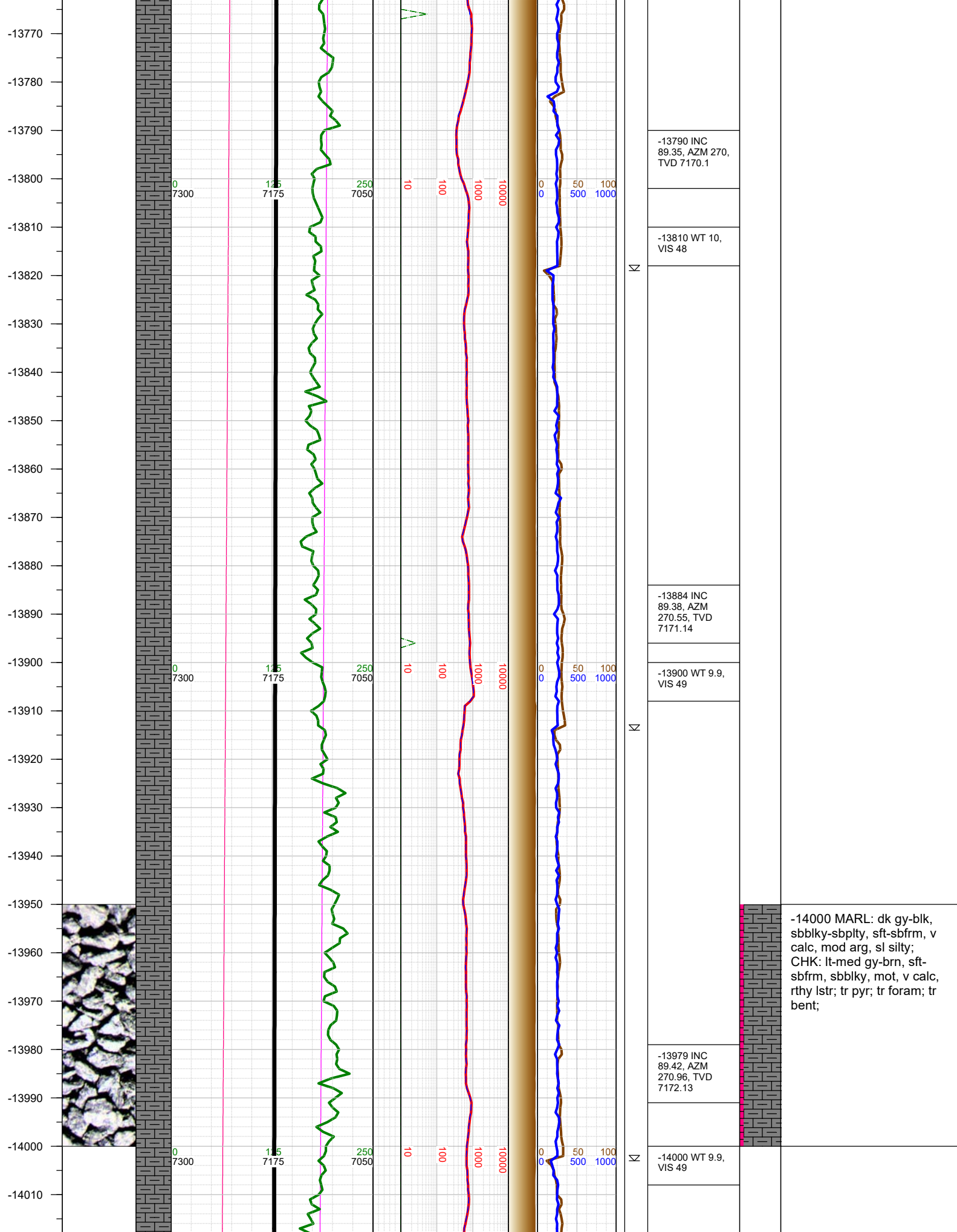
-13412 INC
89.42, AZM
271.74, TVD
7165.98

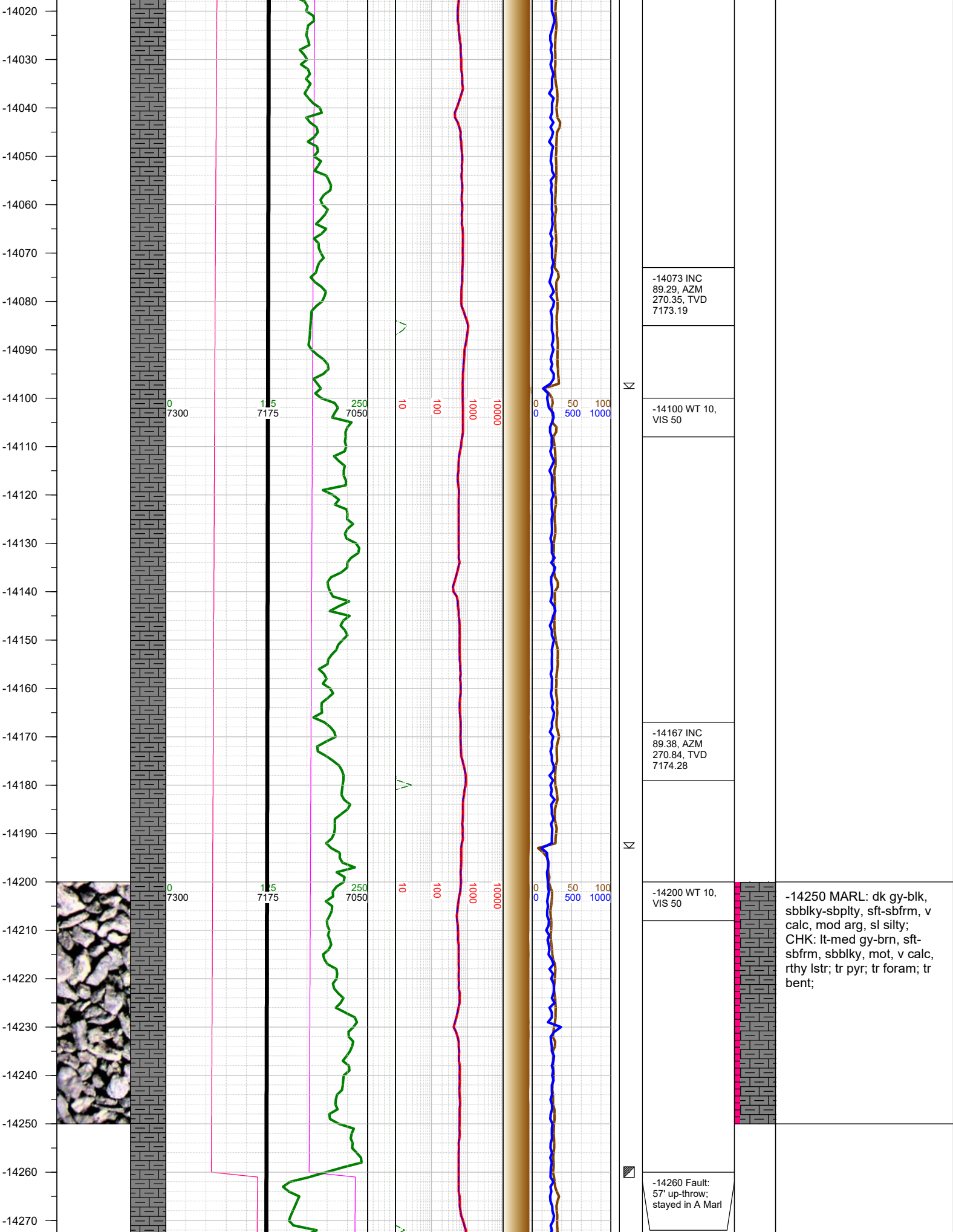
-13500 MARL: dk gy-blk,
sbbly-sbply, sft-sbfrm, v
calc, mod arg, sl silty;
CHK: lt-med gy-brn, sft-
sbfrm, sbbly, mot, v calc,
rthy lstr; mod pyr; tr foram;

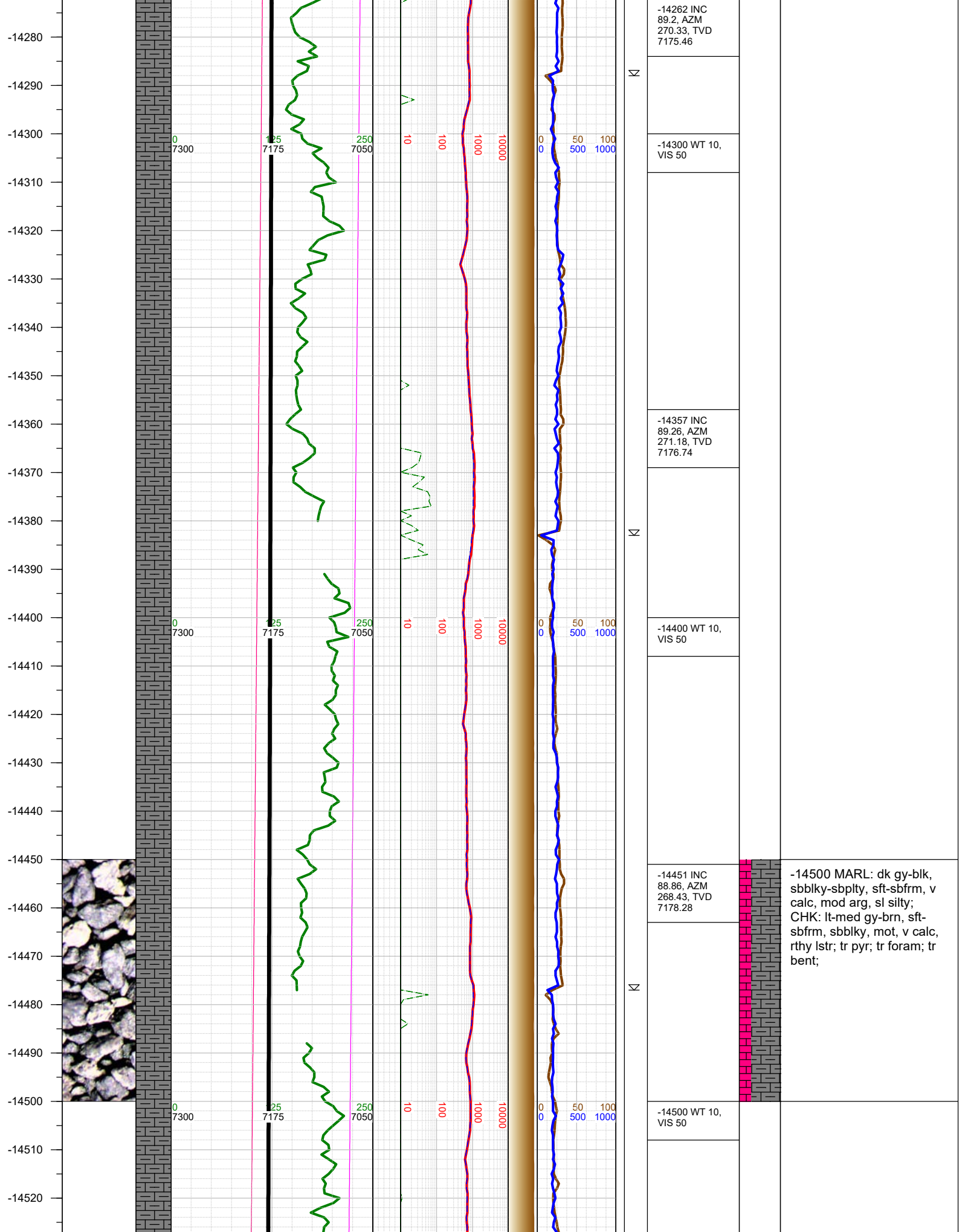
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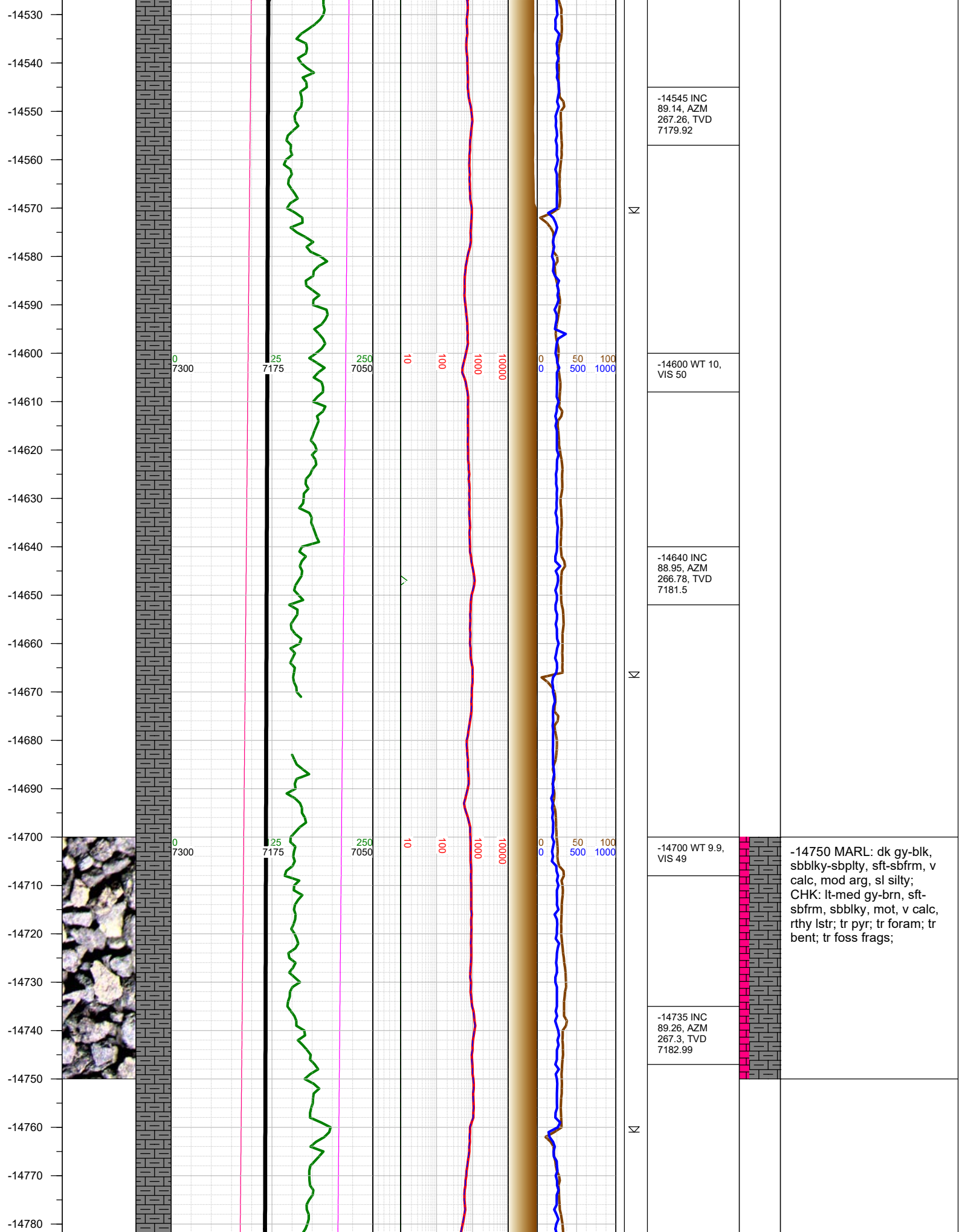


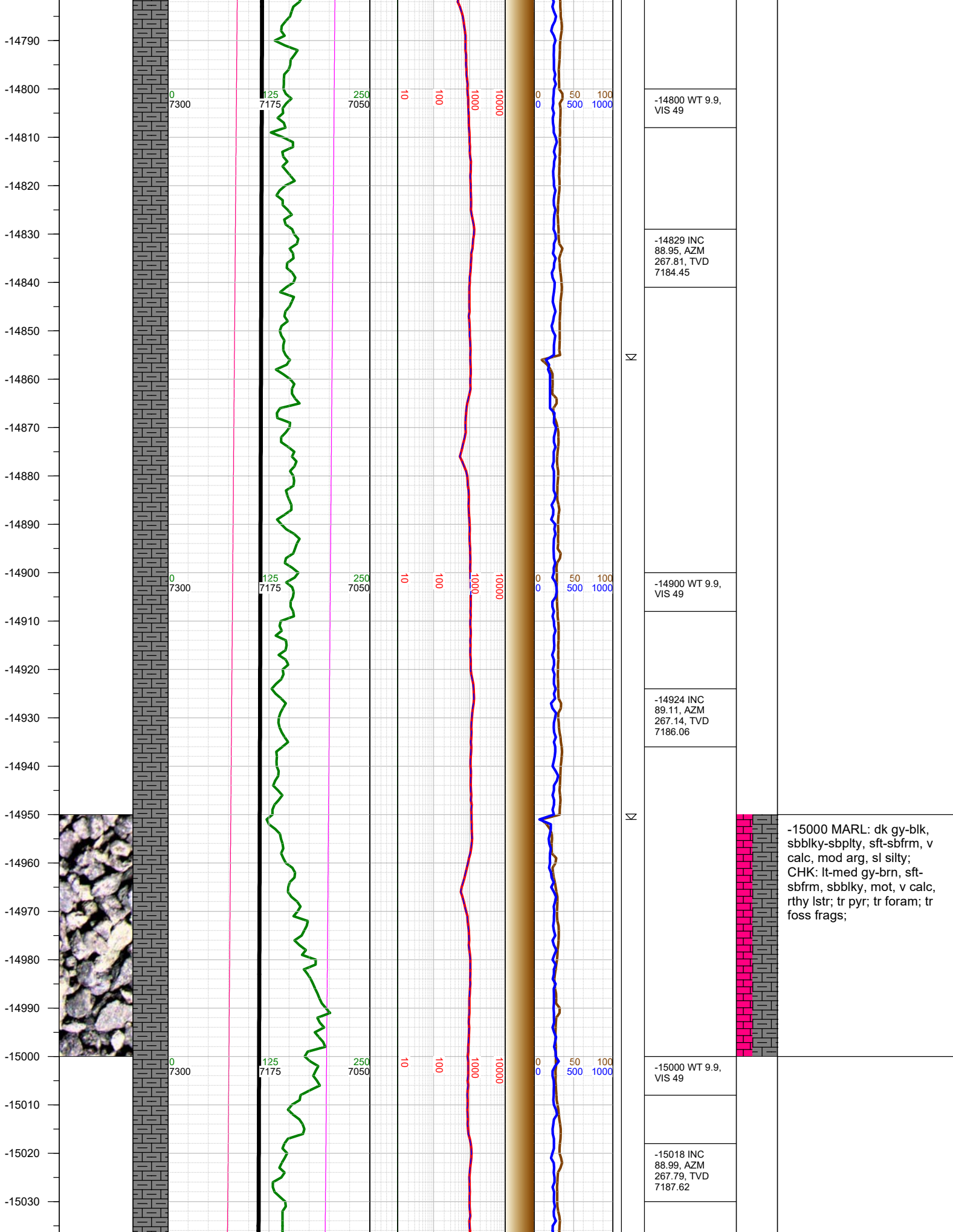
-13507 INC 89.32, AZM 269.58, TVD 7167.02	
-13520 WT 10, VIS 49	
N	
-13601 INC 89.45, AZM 268.89, TVD 7168.03	
-13620 WT 10, VIS 51	
N	
-13695 INC 89.35, AZM 269.31, TVD 7169.02	
-13710 WT 10, VIS 51	
N	
-13750 MARL: dk gy-blk, sbbiky-sbpity, sft-sbfrm, v calc, mod arg, sl silty; CHK: lt-med gy-brn, sft- sbfrm, sbbiky, mot, v calc, rthy lstr; tr pyr; tr foram; tr bent;	

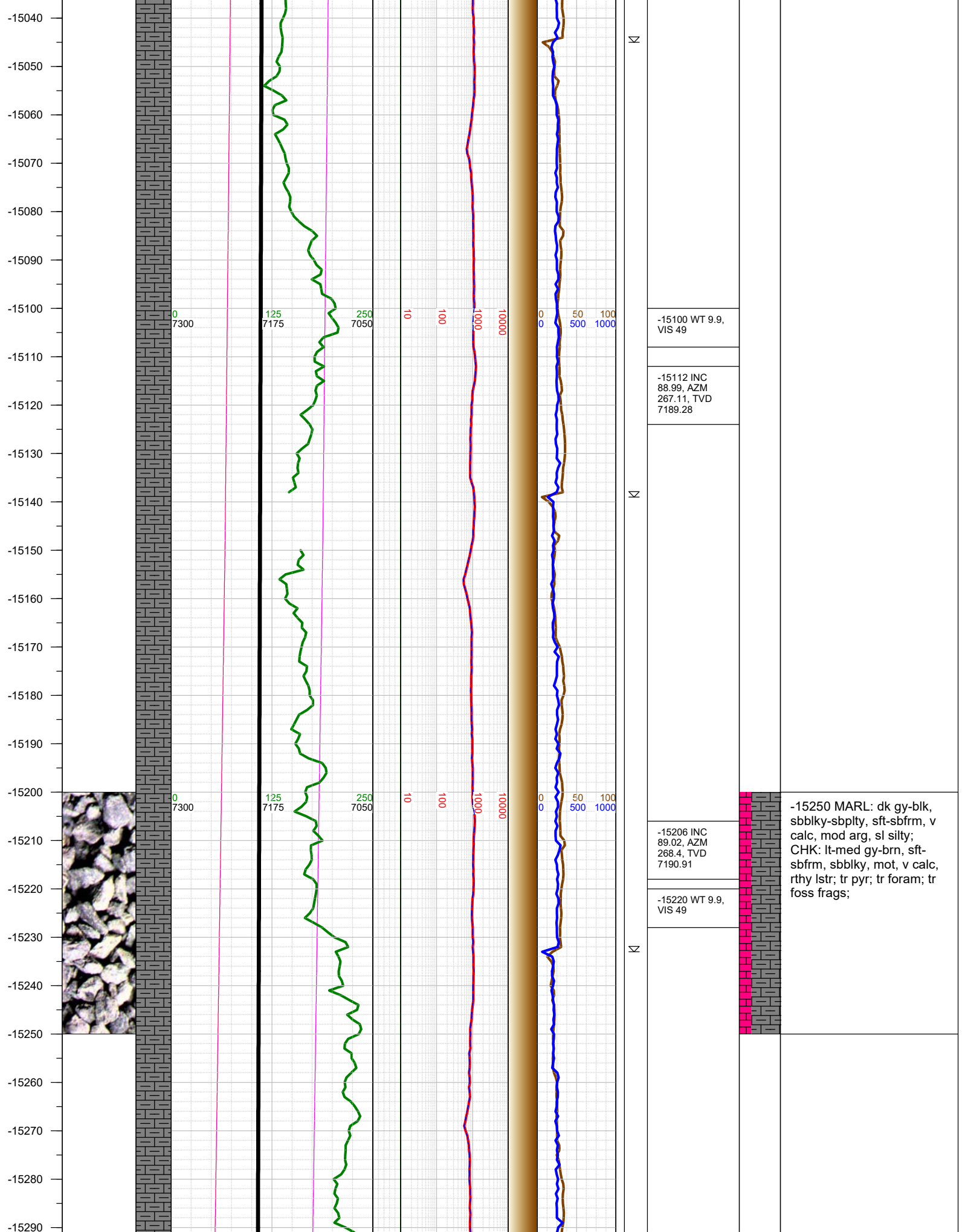


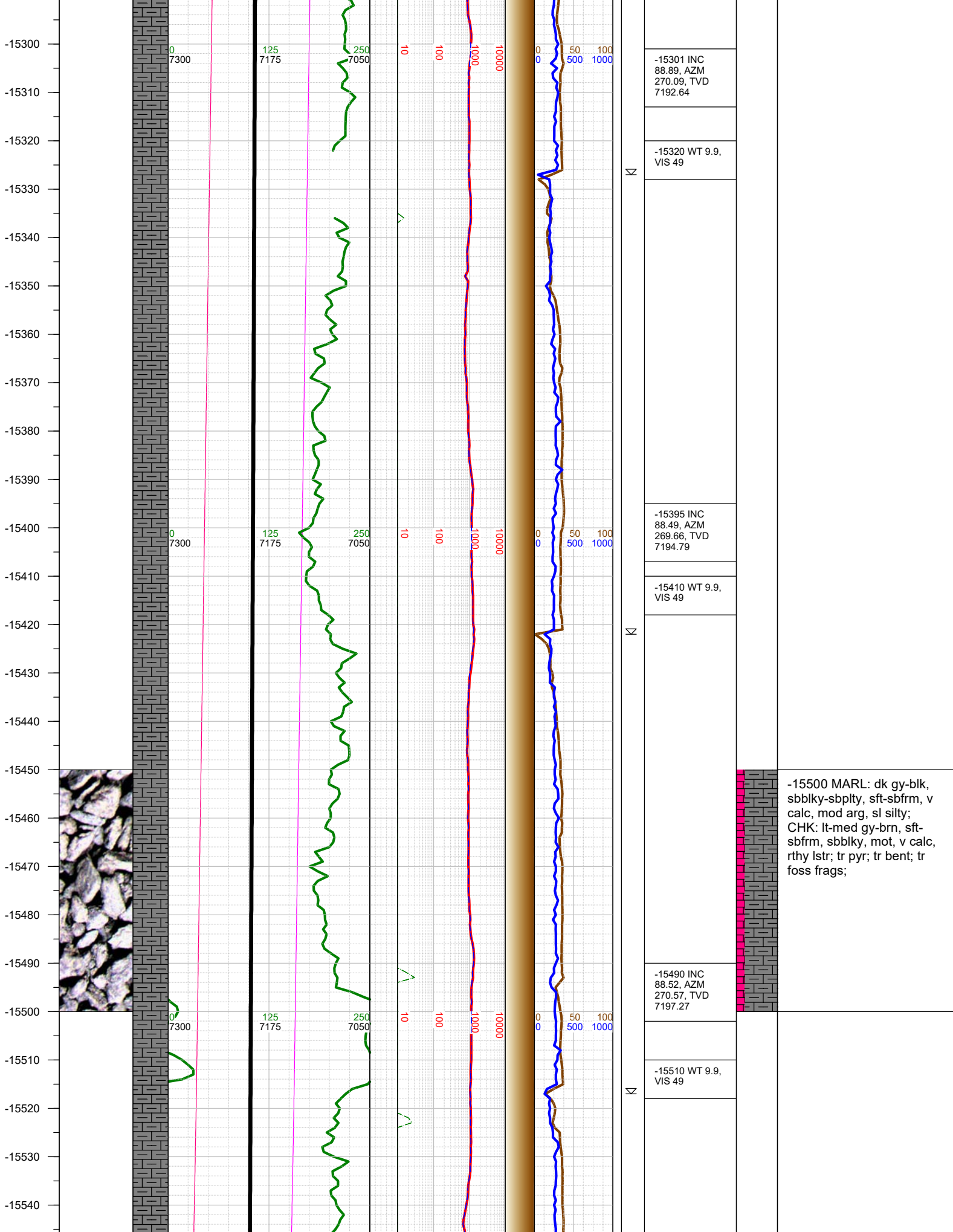




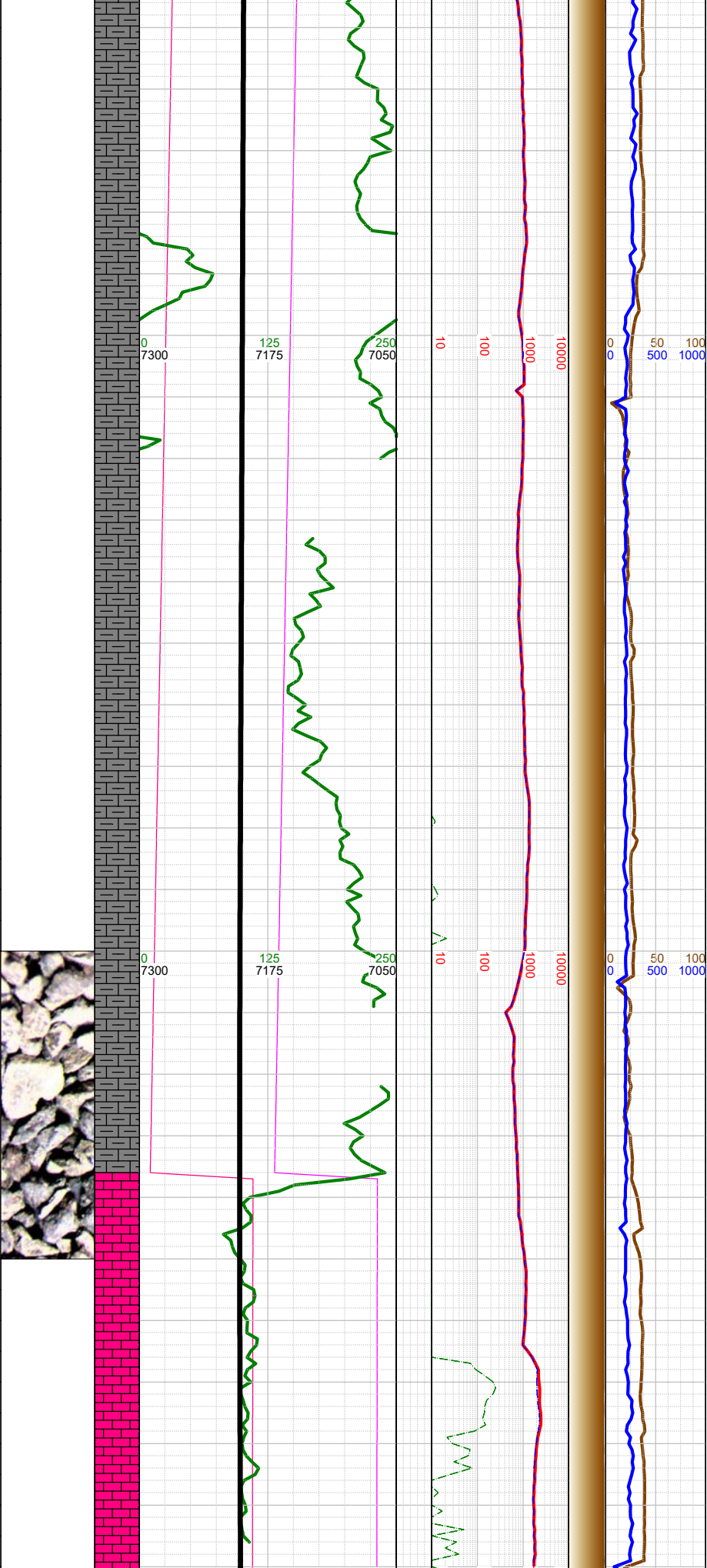




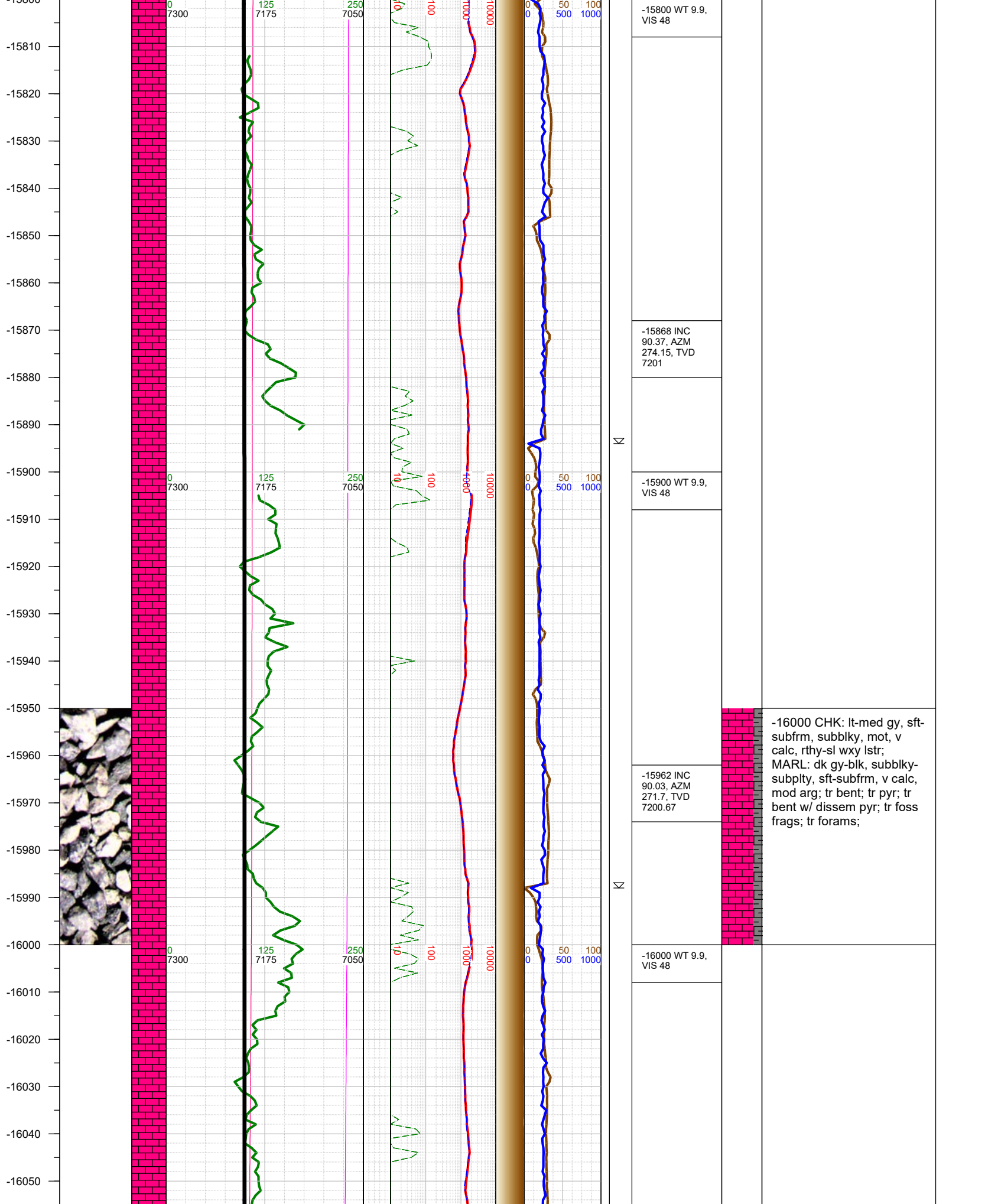


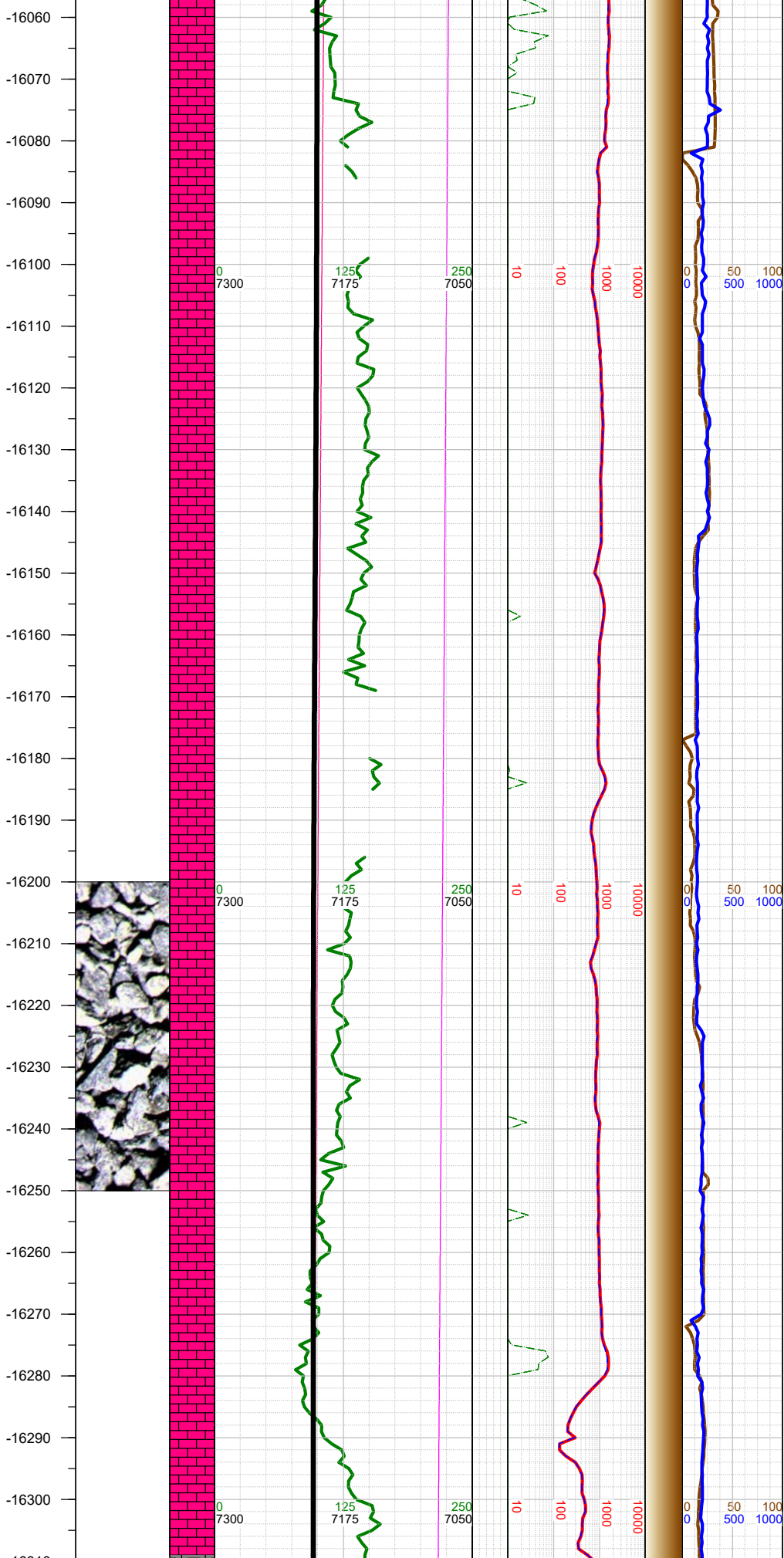


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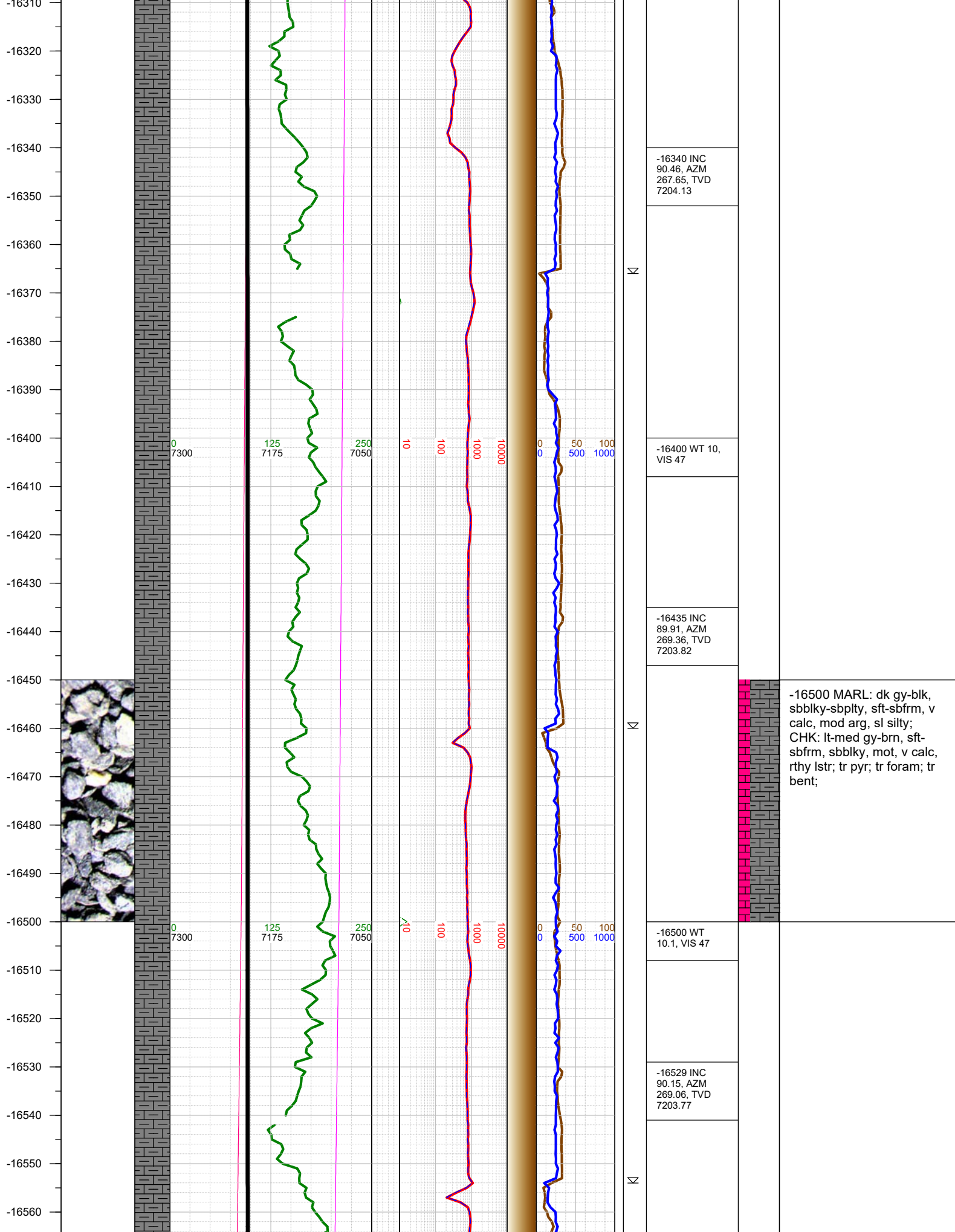


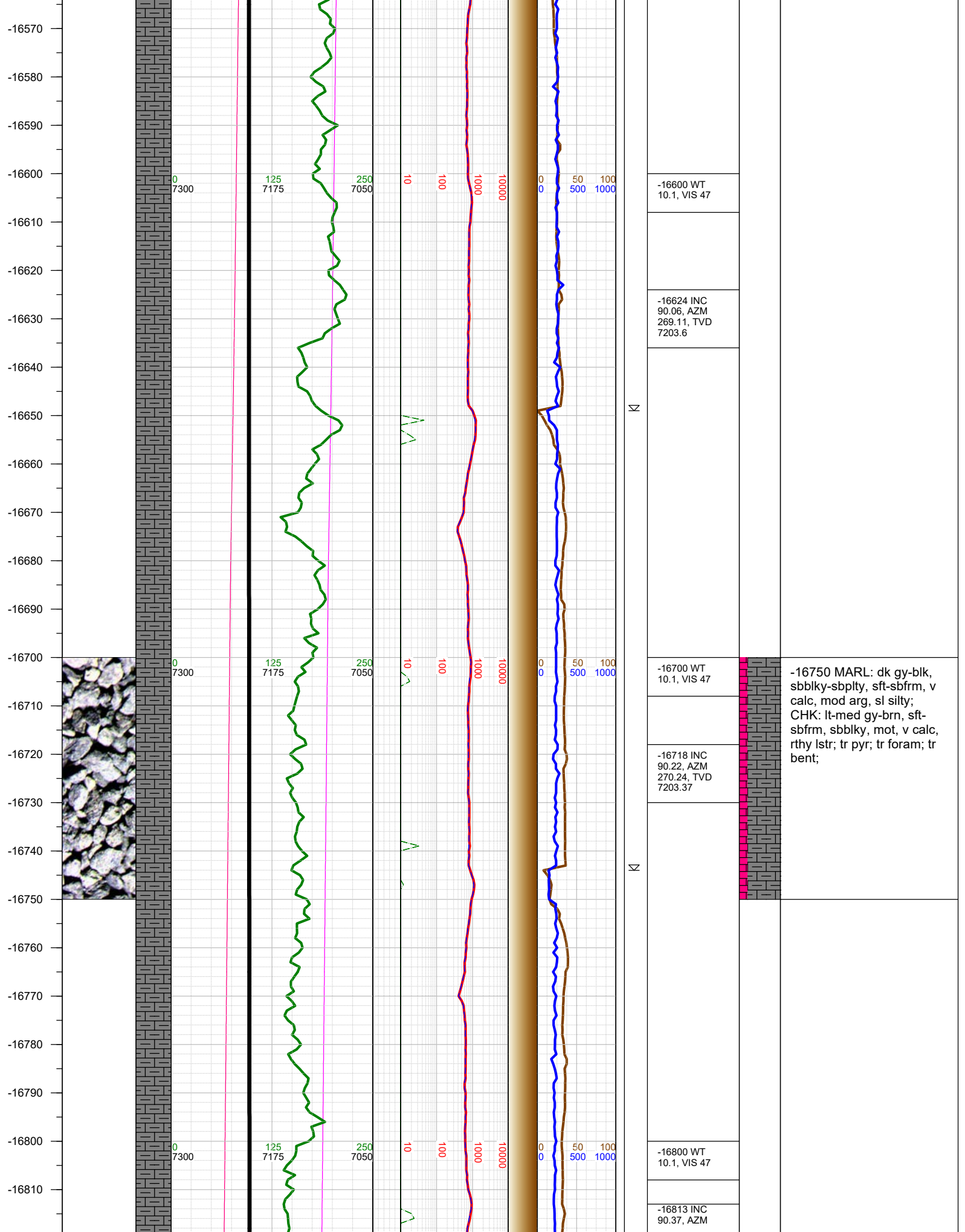
	-15584 INC 88.77, AZM 271.76, TVD 7199.49	
	-15600 WT 9.9, VIS 49	
⌵		
	-15679 INC 88.55, AZM 271.88, TVD 7201.71	
⌵	-15700 WT 9.9, VIS 49	-15750 CHK: lt-med gy, sft- subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky- subpity, sft-subfrm, v calc, mod arg; tr bent; tr pyr; tr bent w/ dissemin pyr; tr foss frags; tr forams;
▣	-15736 Fault: 100' up-throw; went from A Marl to B Chalk	
	-15774 INC 90.98, AZM 273.34, TVD 7202.1	
⌵		

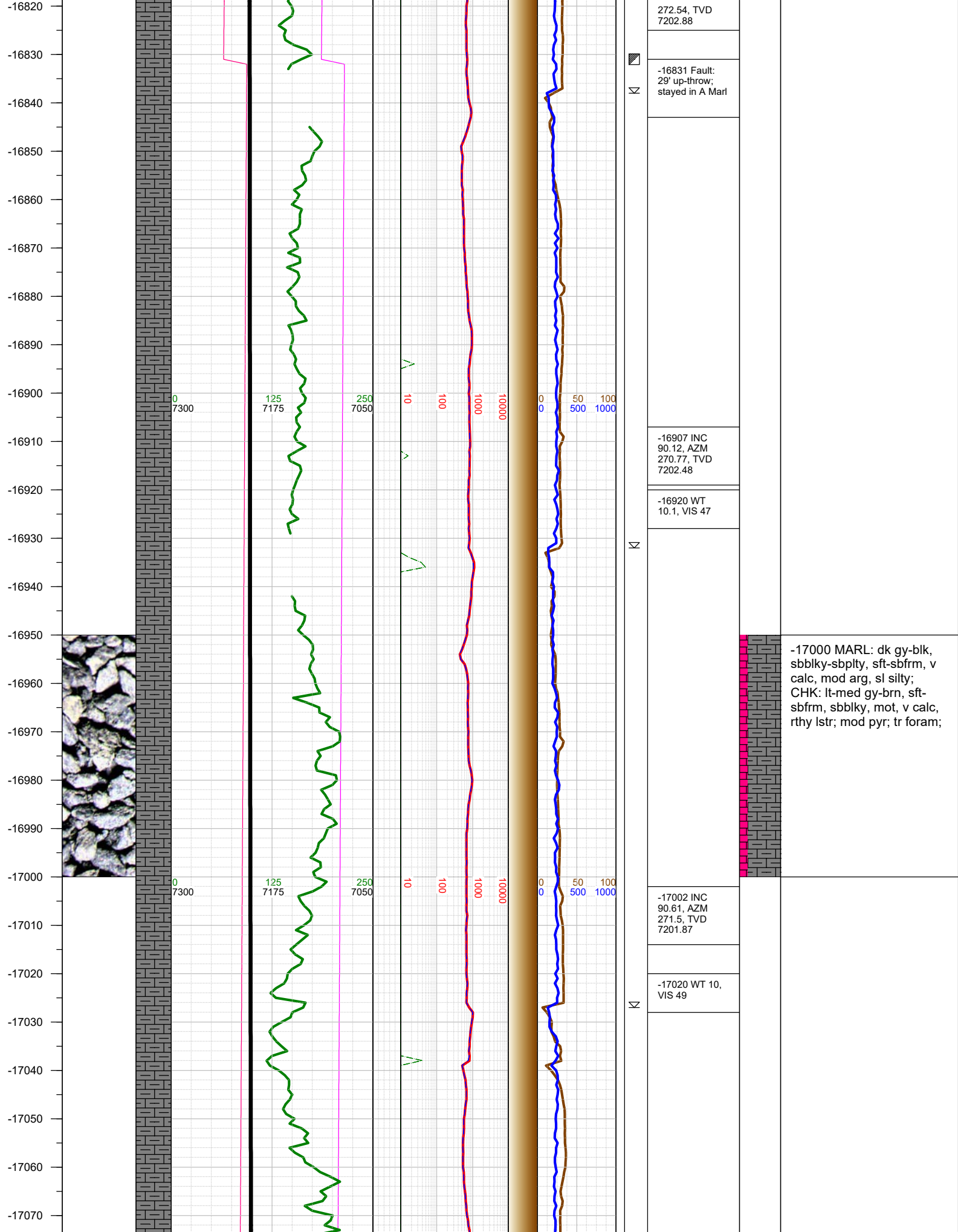


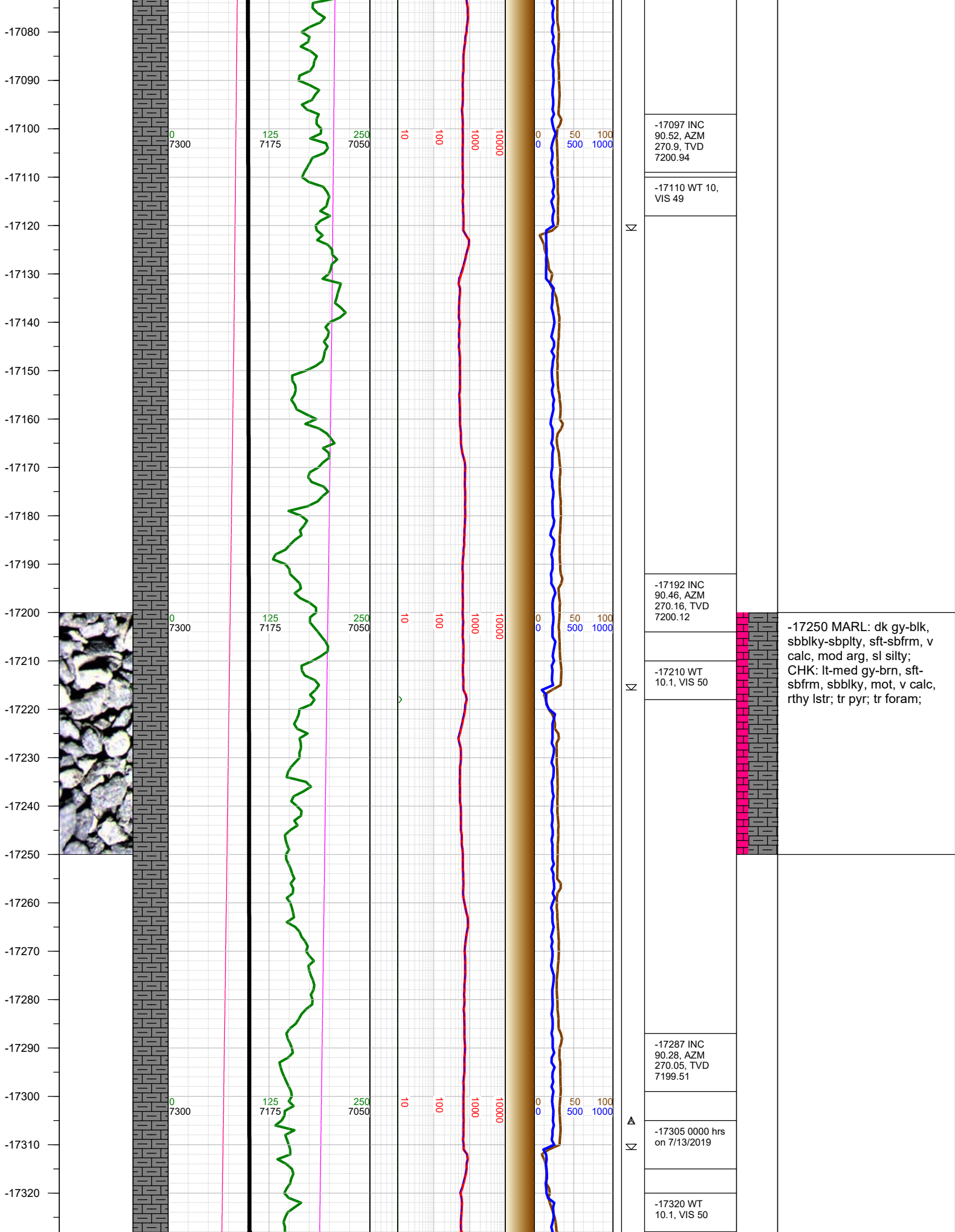


N	-16056 INC 89.94, AZM 267.84, TVD 7200.69		
	-16100 WT 9.9, VIS 48		
N	-16151 INC 87.85, AZM 263.47, TVD 7202.53		
	-16200 WT 9.95, VIS 49	-16250 CHK: lt-med gy, sft- subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky- subply, sft-subfrm, v calc, mod arg; tr pyr; tr bent w/ dissem pyr; tr foss frags; tr forams;	
N	-16246 INC 89.88, AZM 264.88, TVD 7204.41		
	-16281 Low gas readings due to gas trap maintenance through 16342'.		
	-16300 WT 10, VIS 47		

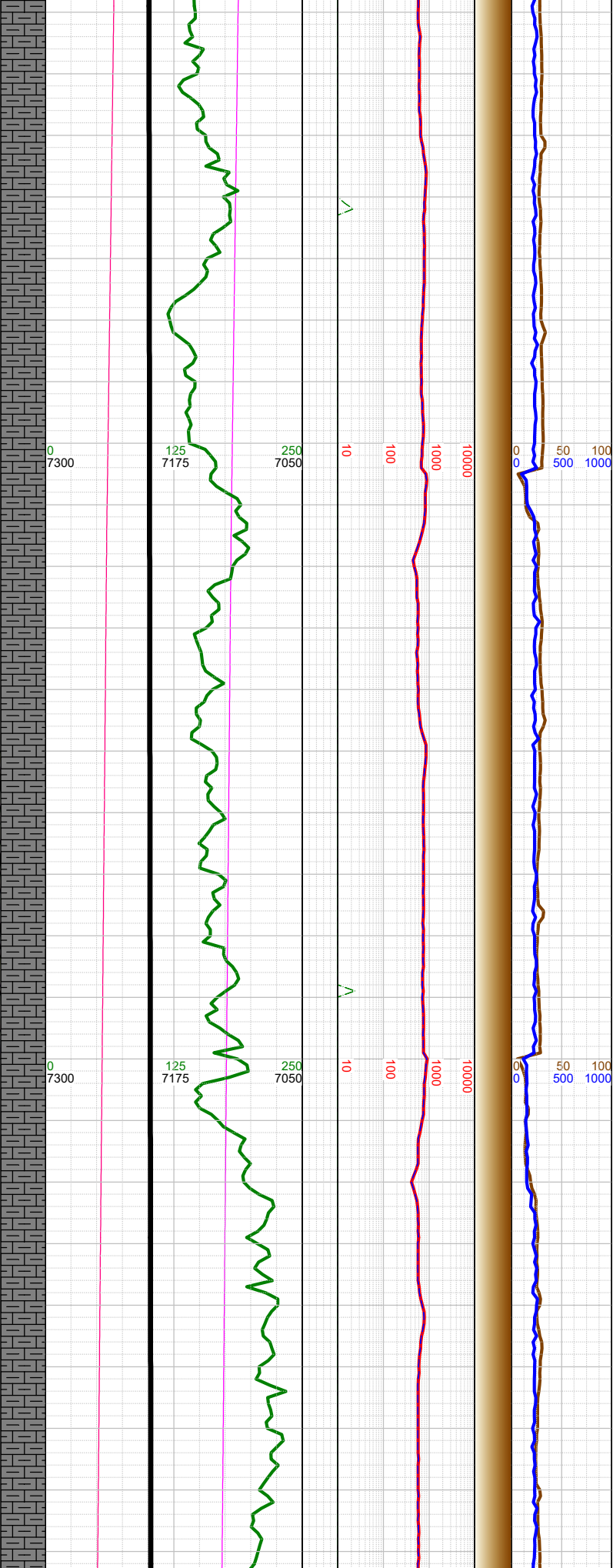
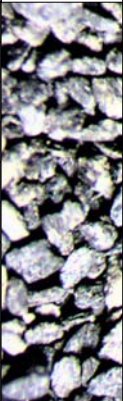








-17330
-17340
-17350
-17360
-17370
-17380
-17390
-17400
-17410
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-17450
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-17490
-17500
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-17540
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-17570
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-17381 INC
90.4, AZM
269.8, TVD
7198.95

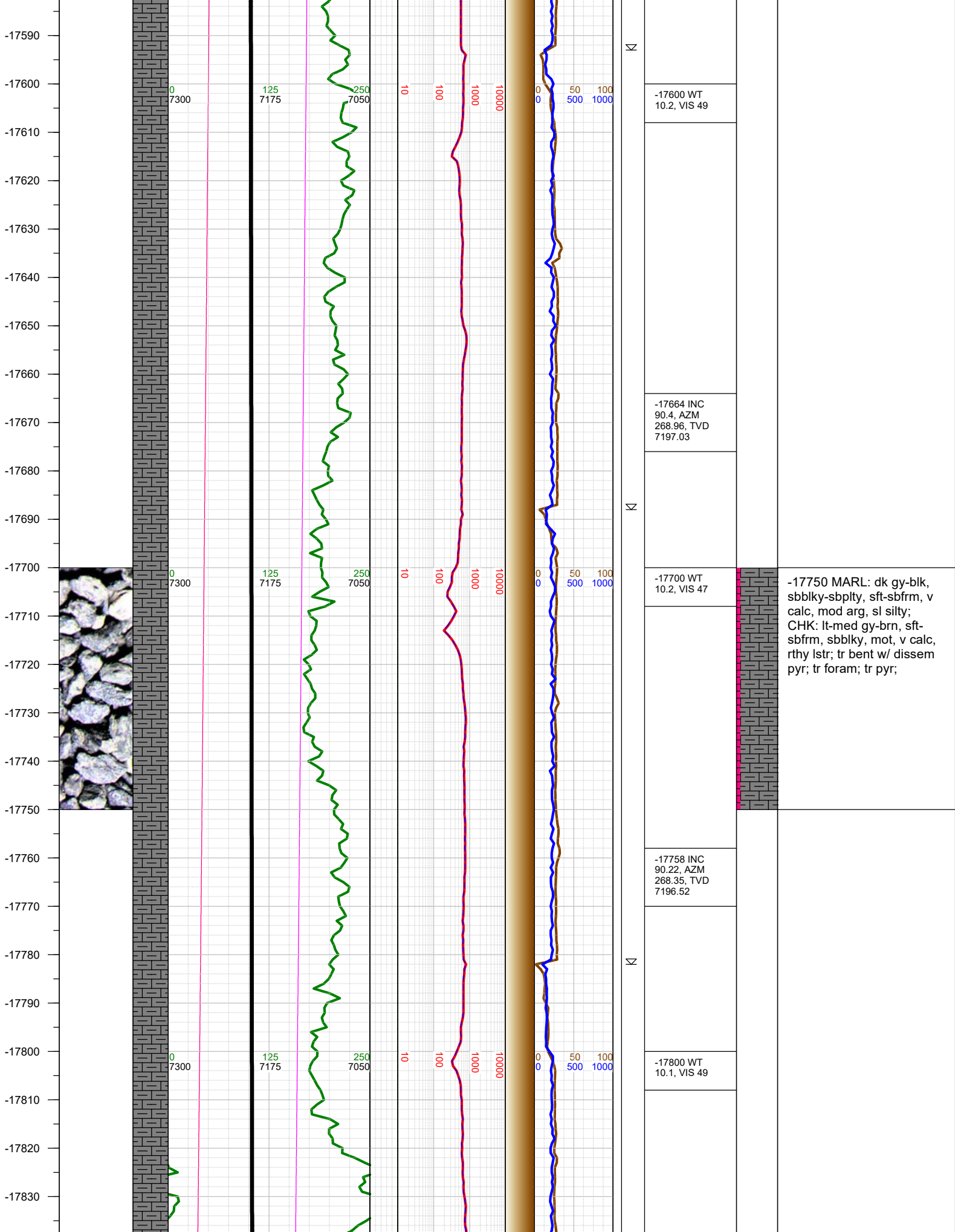
-17400 WT
10.1, VIS 50

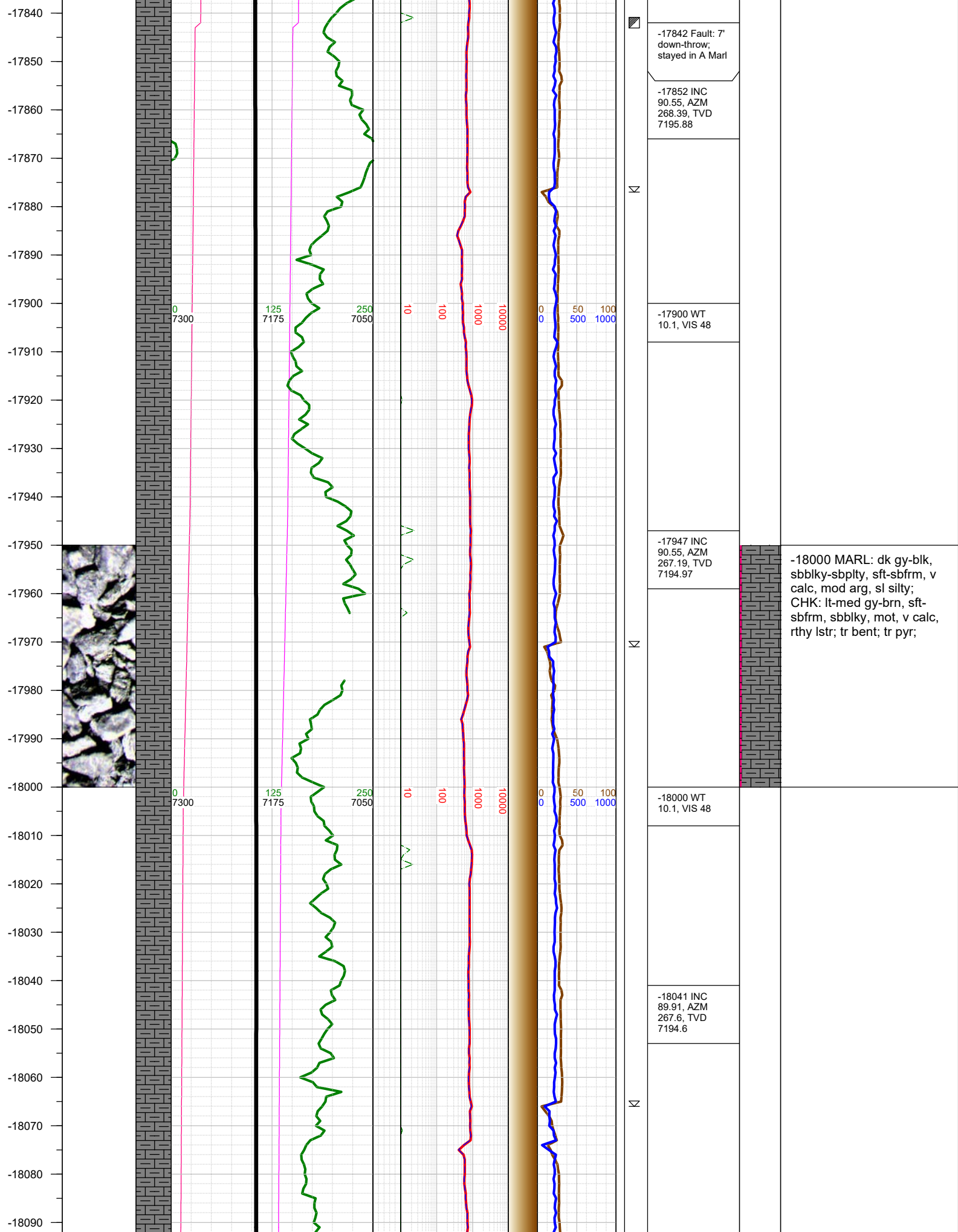
-17476 INC
90.46, AZM
270.22, TVD
7198.24

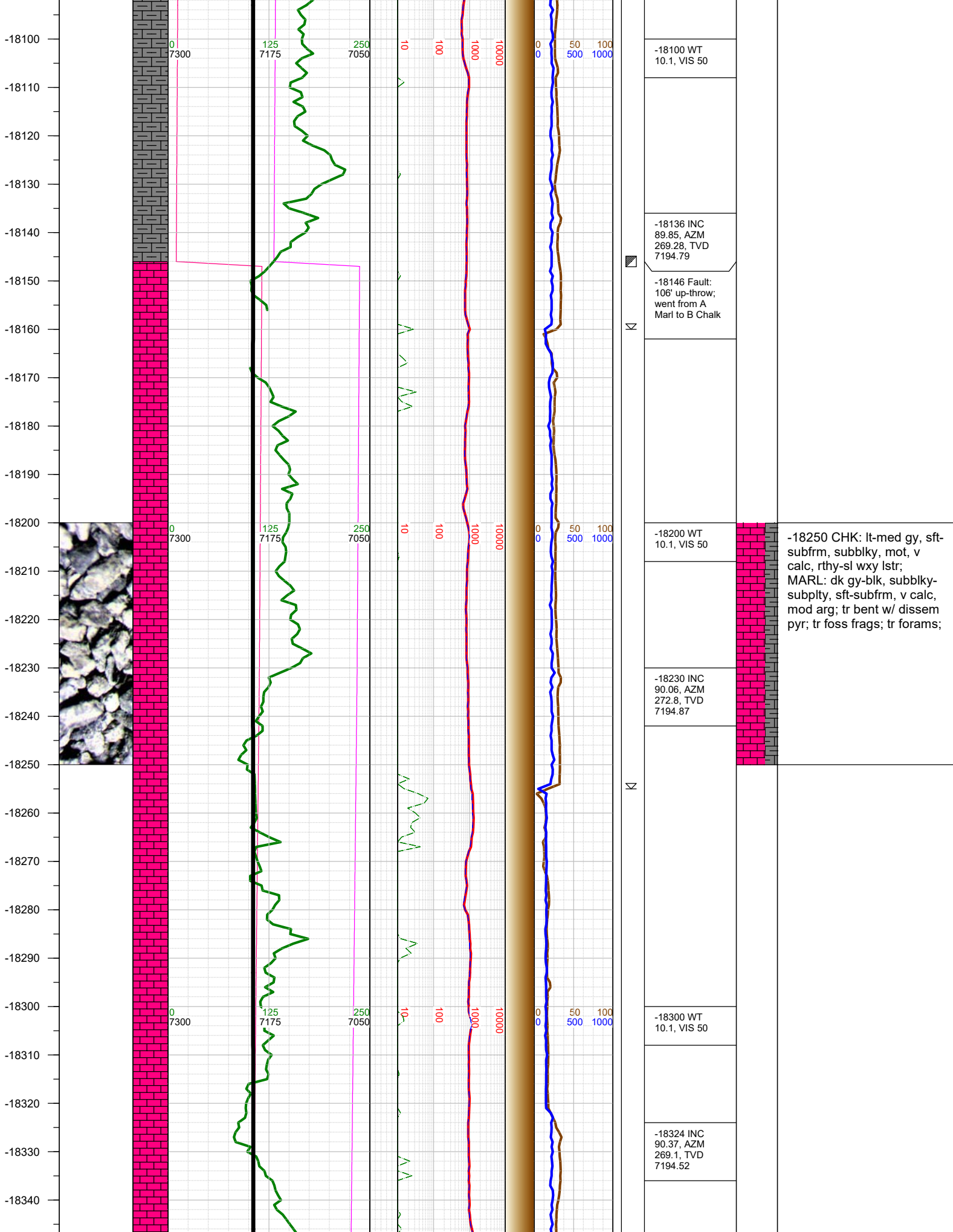
-17500 WT
10.2, VIS 49

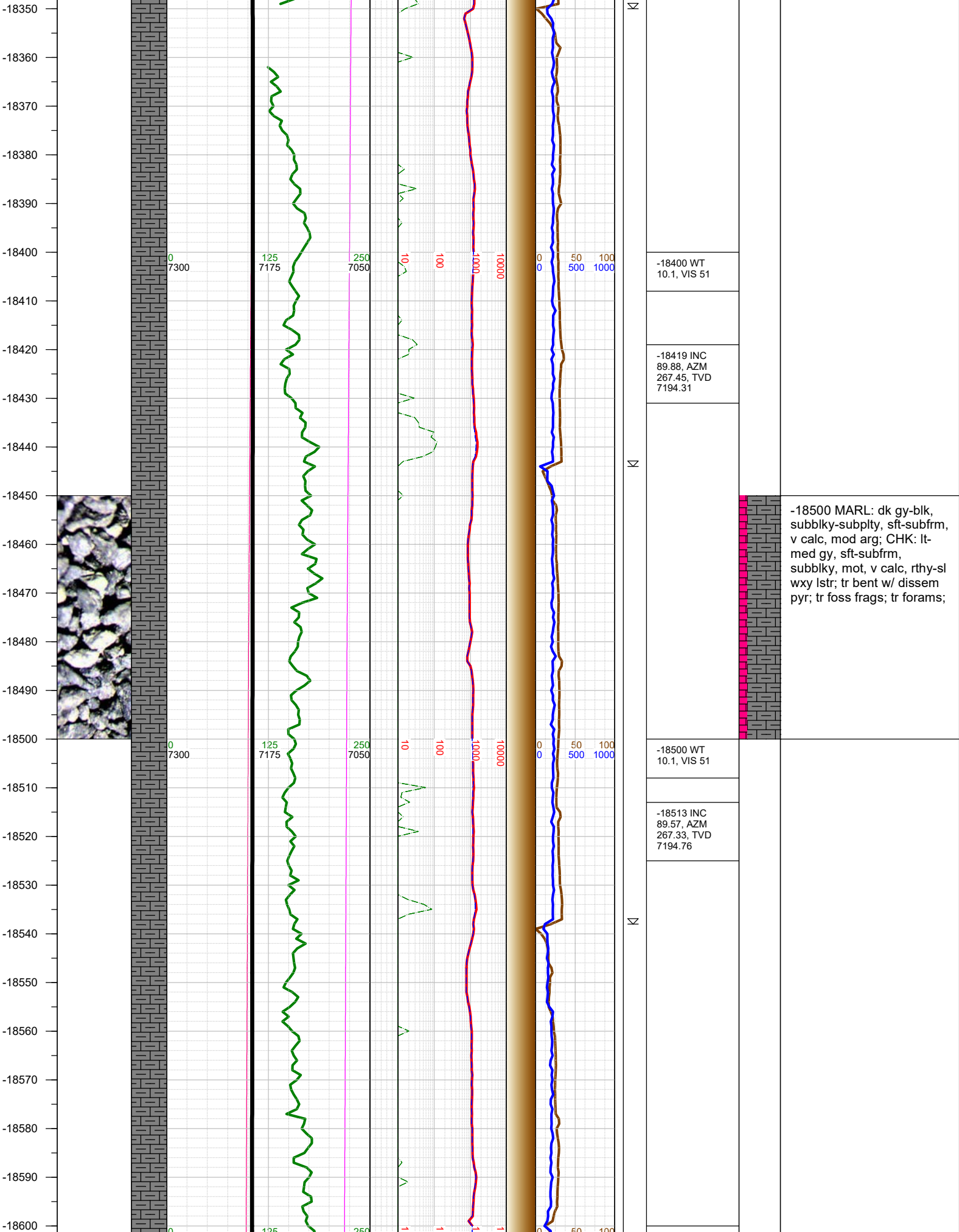
-17570 INC
90.31, AZM
269.62, TVD
7197.61

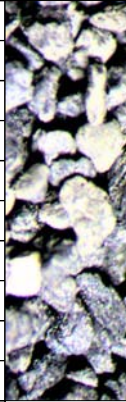
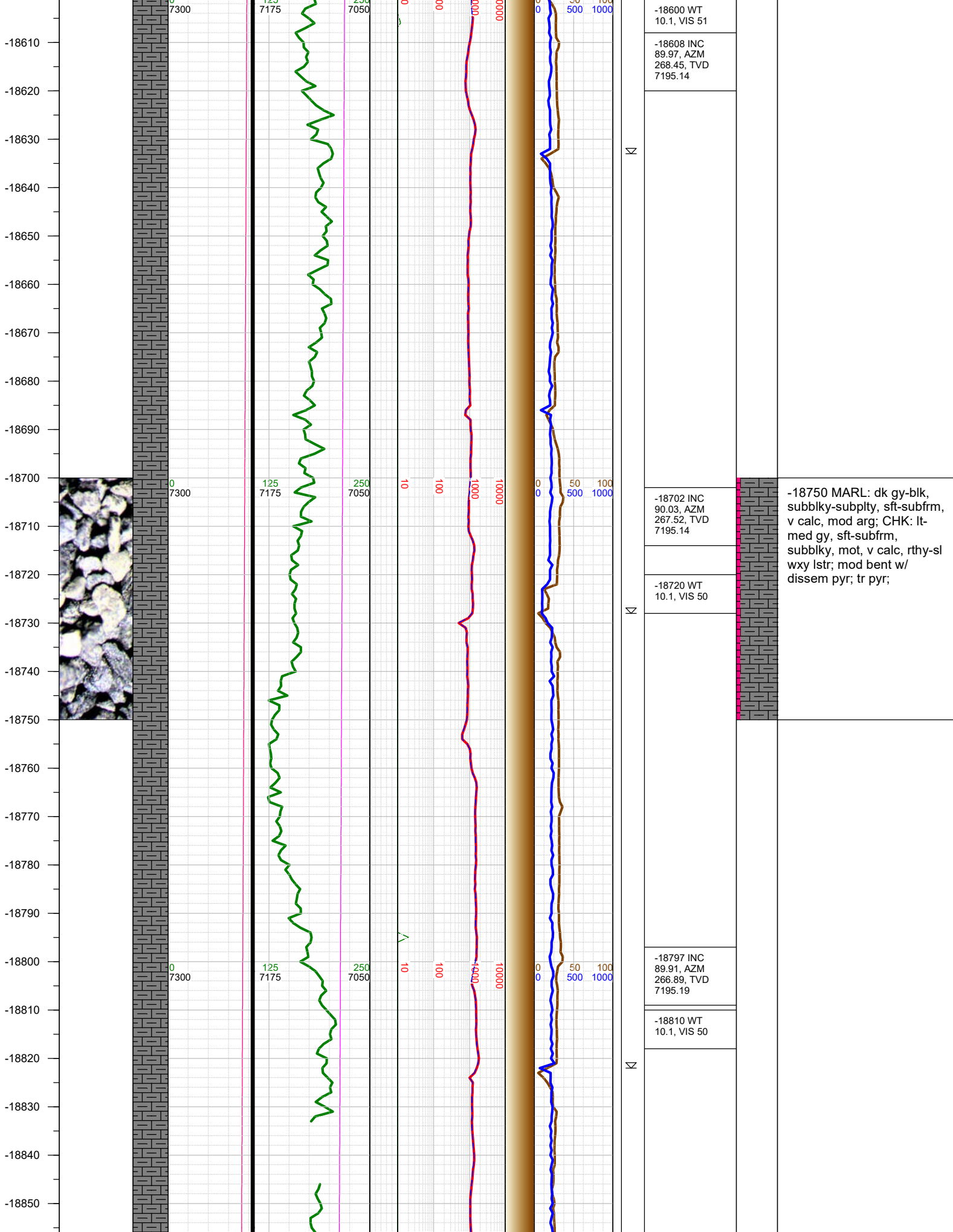
-17500 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr pyr; tr bent;











-18750 MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg; CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; mod bent w/ dissem pyr; tr pyr;

