

OPERATOR: **Extraction Oil & Gas**

WELL NAME: **CS Sherwood 1-1-13**

FIELD NAME: DJ Basin - Wattenberg

DRILLING RIG: Patterson 341

API #: 05-123-42911

LAT/LONG: 40.43837, -104.72294

SURFACE HOLE: SWSE S36-T6N-R66W, 340' FSL, 1968' FEL

BOTTOM HOLE: S13-T5N-R66W, 2196' FNL, 2287' FWL

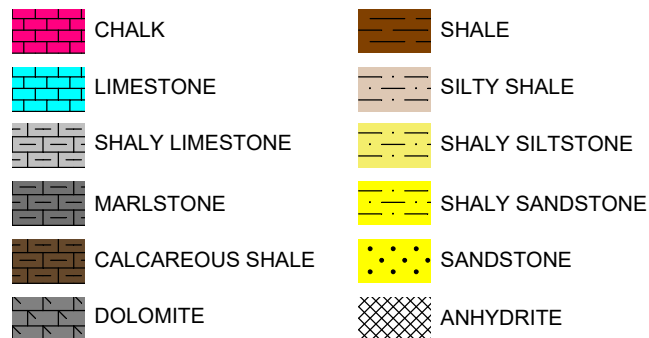


Earth Science Agency, LLC

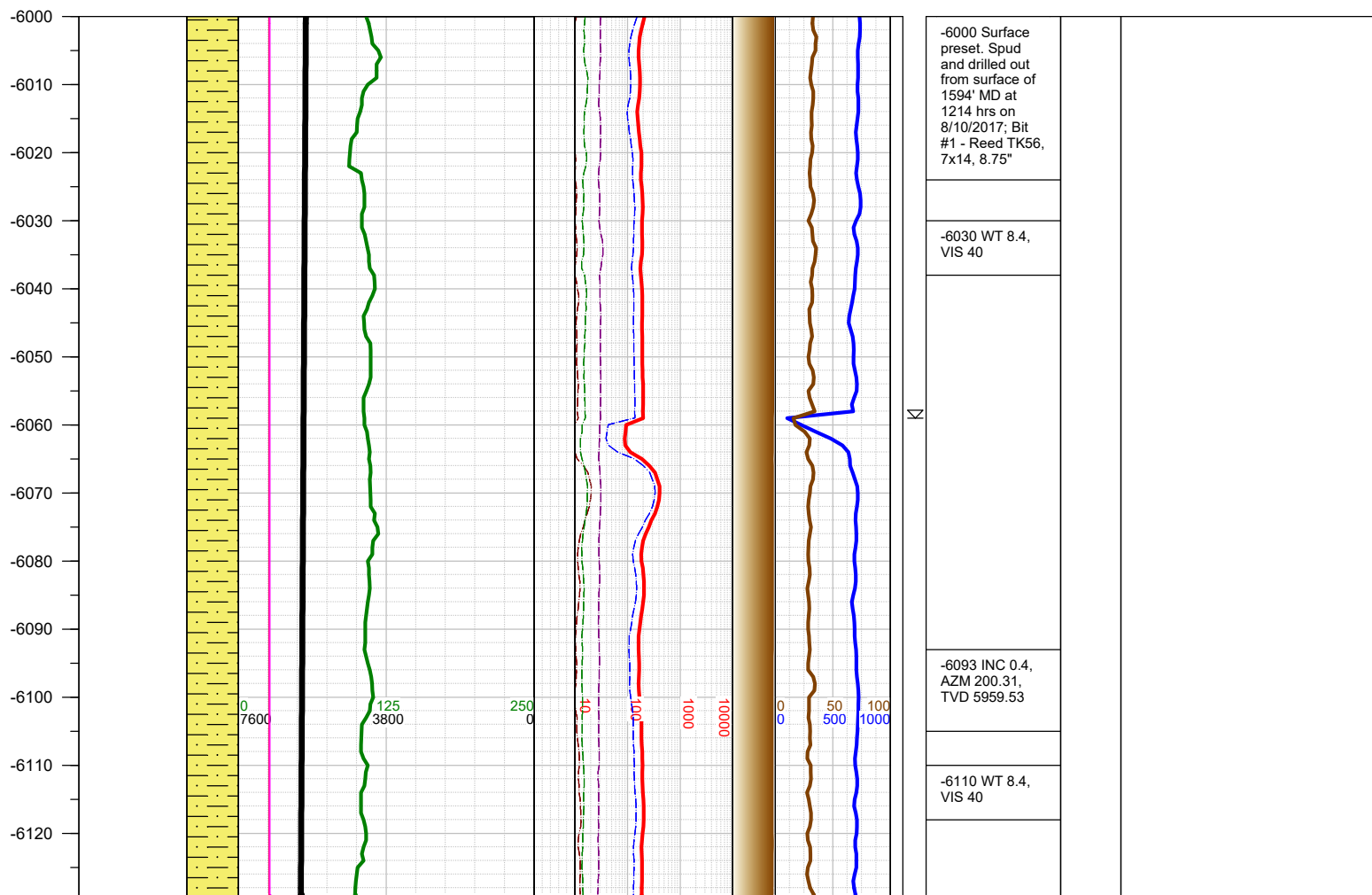
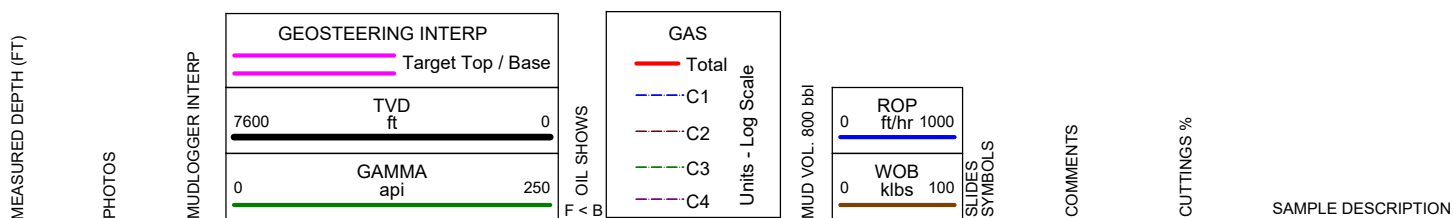
COUNTY: Weld
STATE: Colorado
GROUND ELEVATION: 4665'
KELLY BUSHING: 4690'
DRILLING FLUID: OBM
TVD VS. MD: 6745' / 20248'
SPUD DATE: August 10, 2017
TD DATE: August 14, 2017

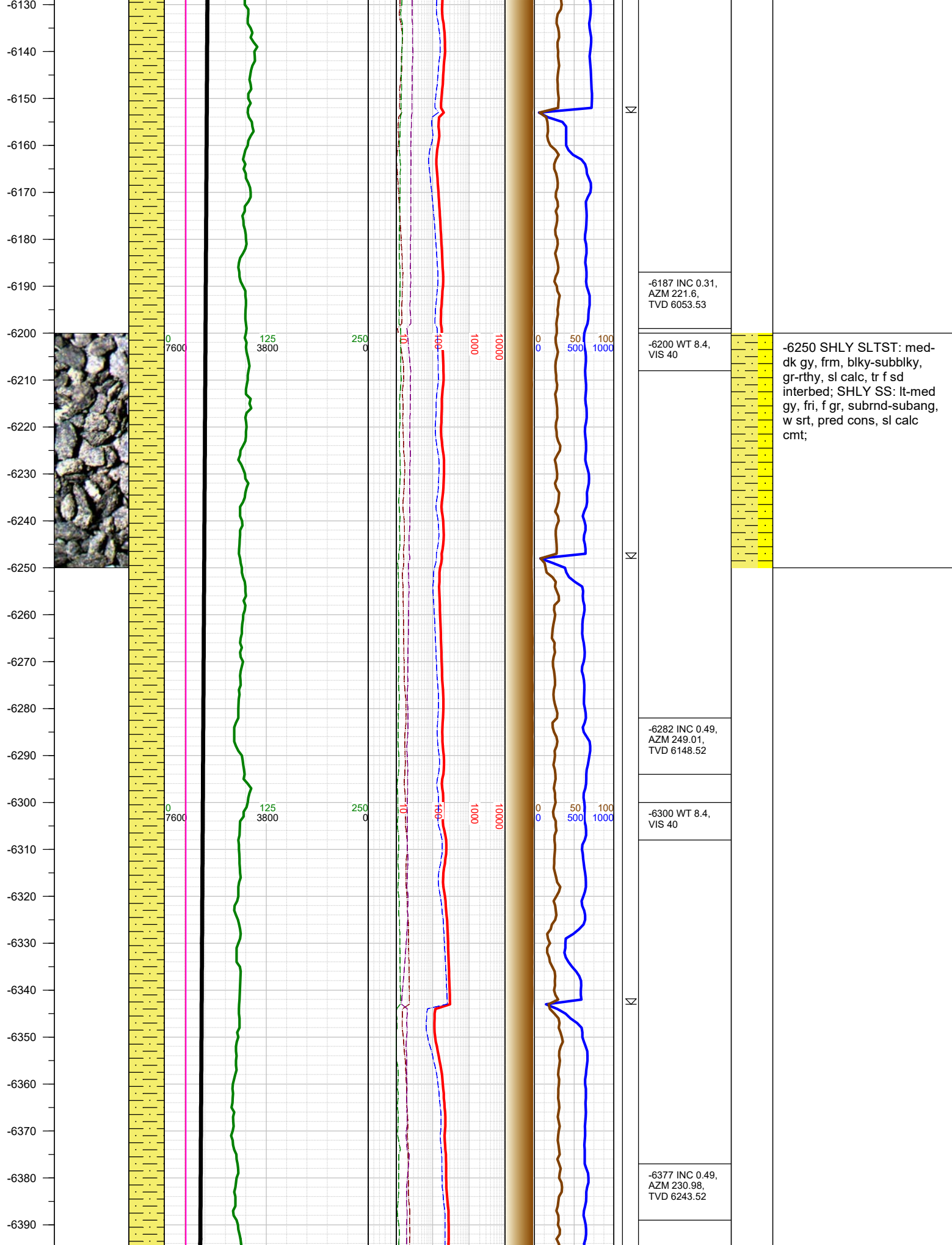
DEPTHS LOGGED: 6000' - 20248'
DATES LOGGED: August 10, 2017 - August 14, 2017
GEOLOGISTS: Blake Eatherton, Dominic Pitre
SCALE: 5" = 100'

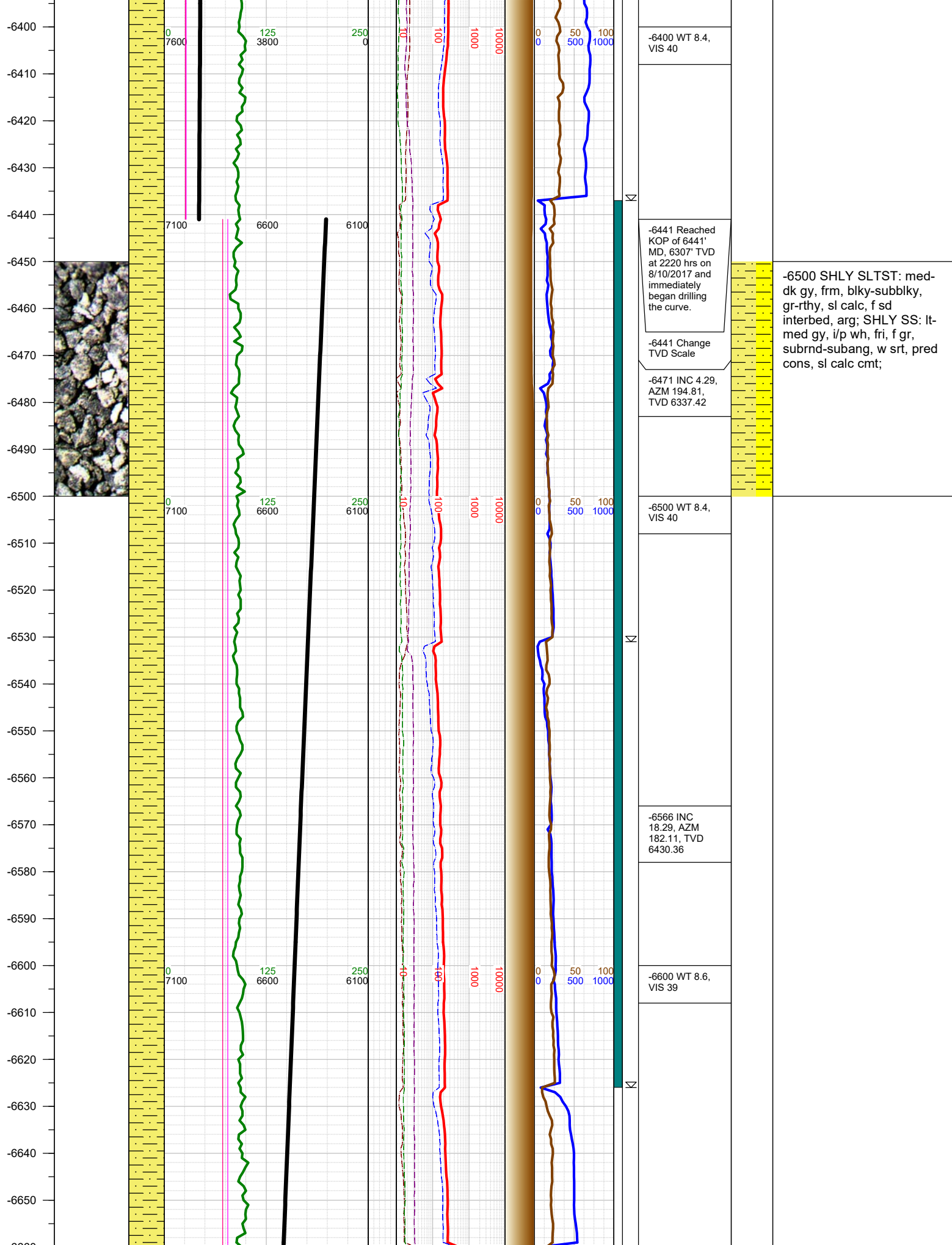
LEGEND

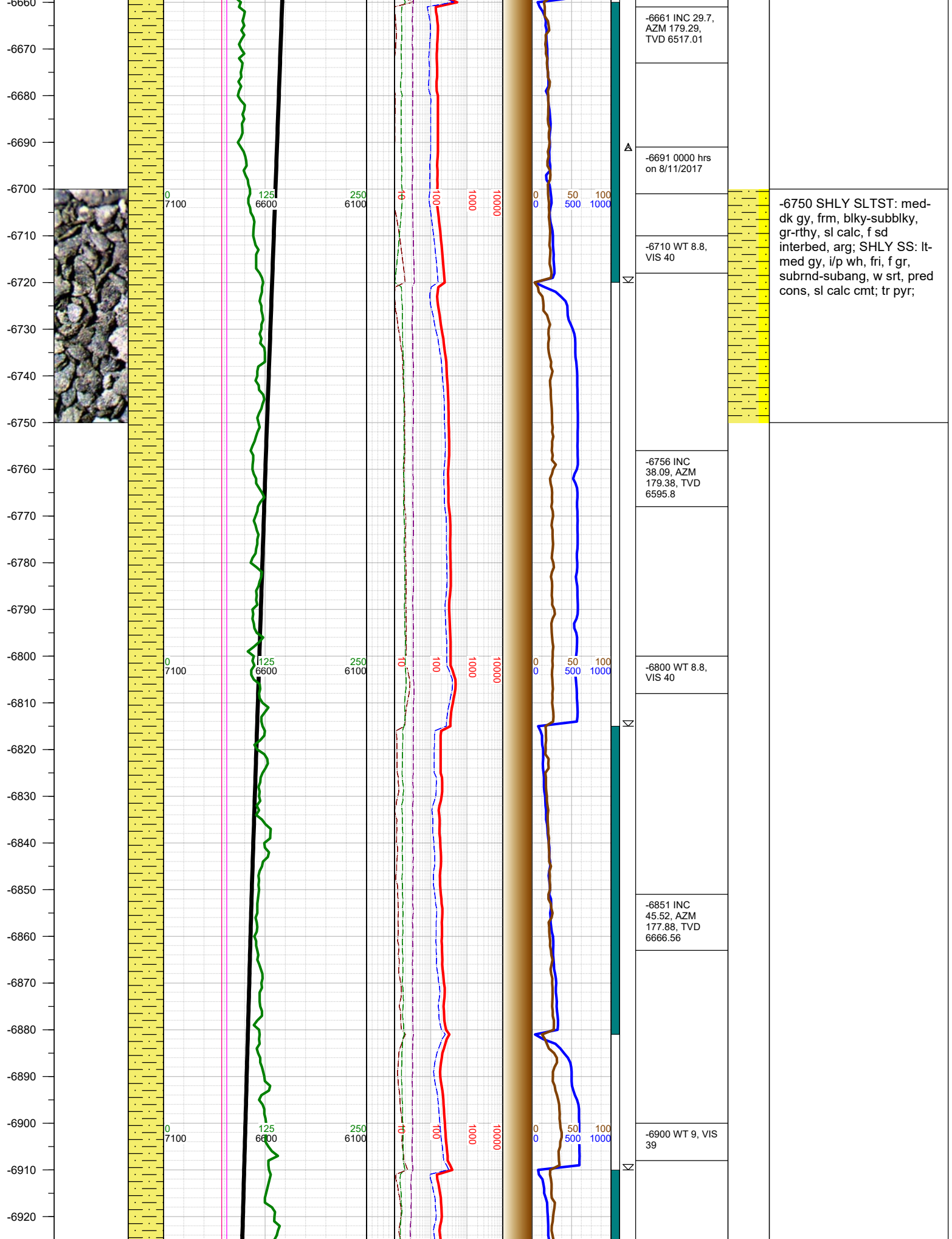


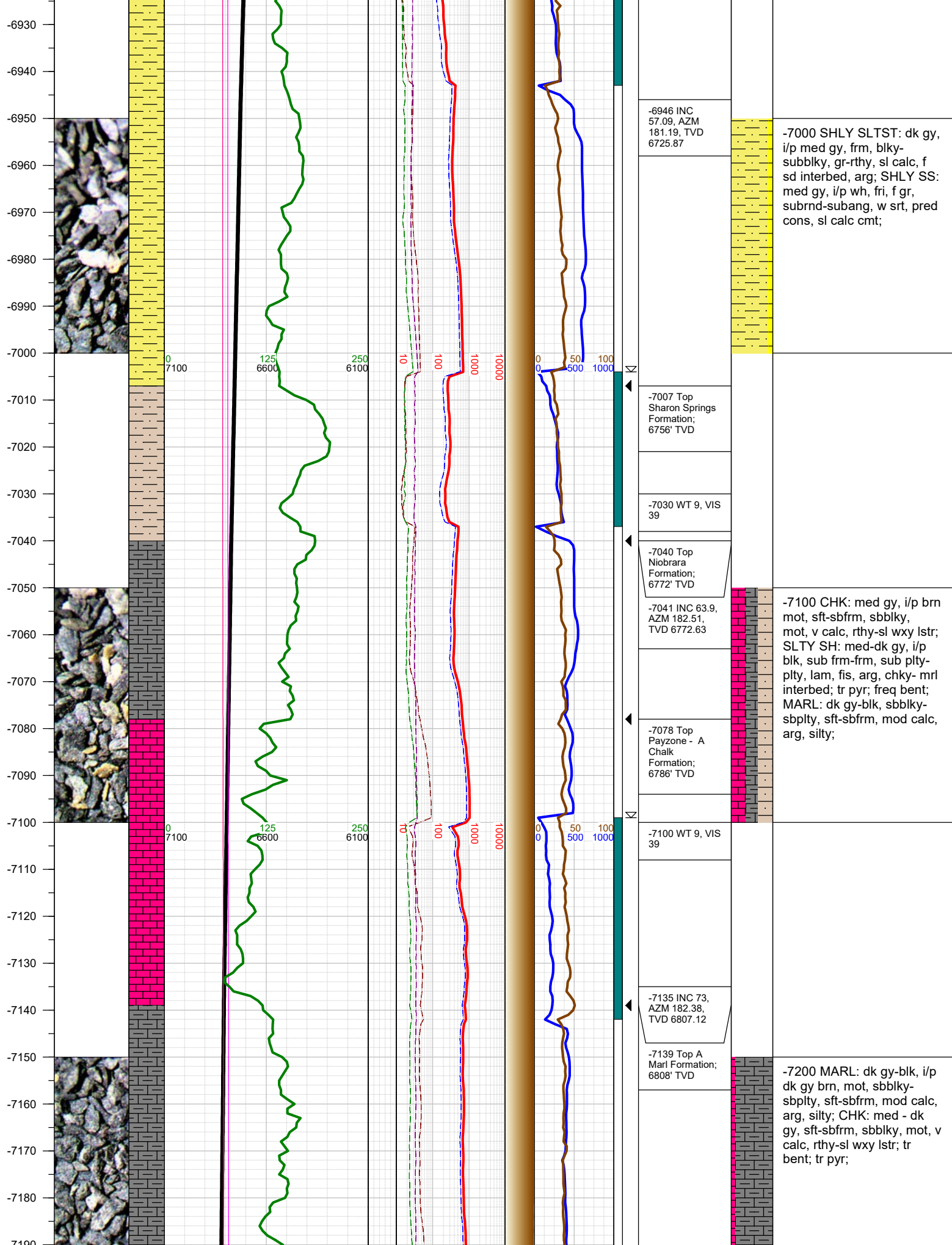
FORMATION CONNECTION MIDNIGHT NEW BIT GAS SHOW FAULT

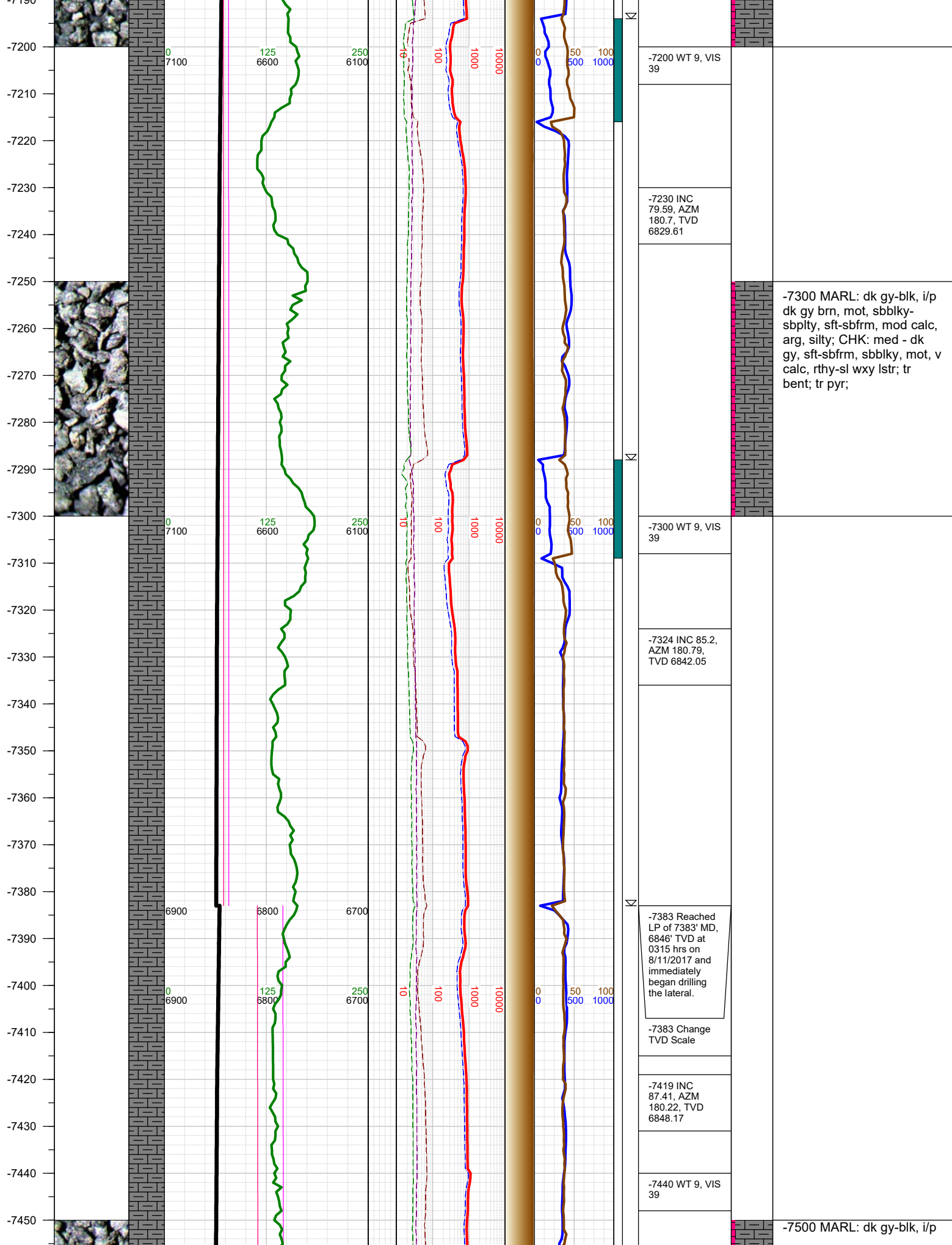


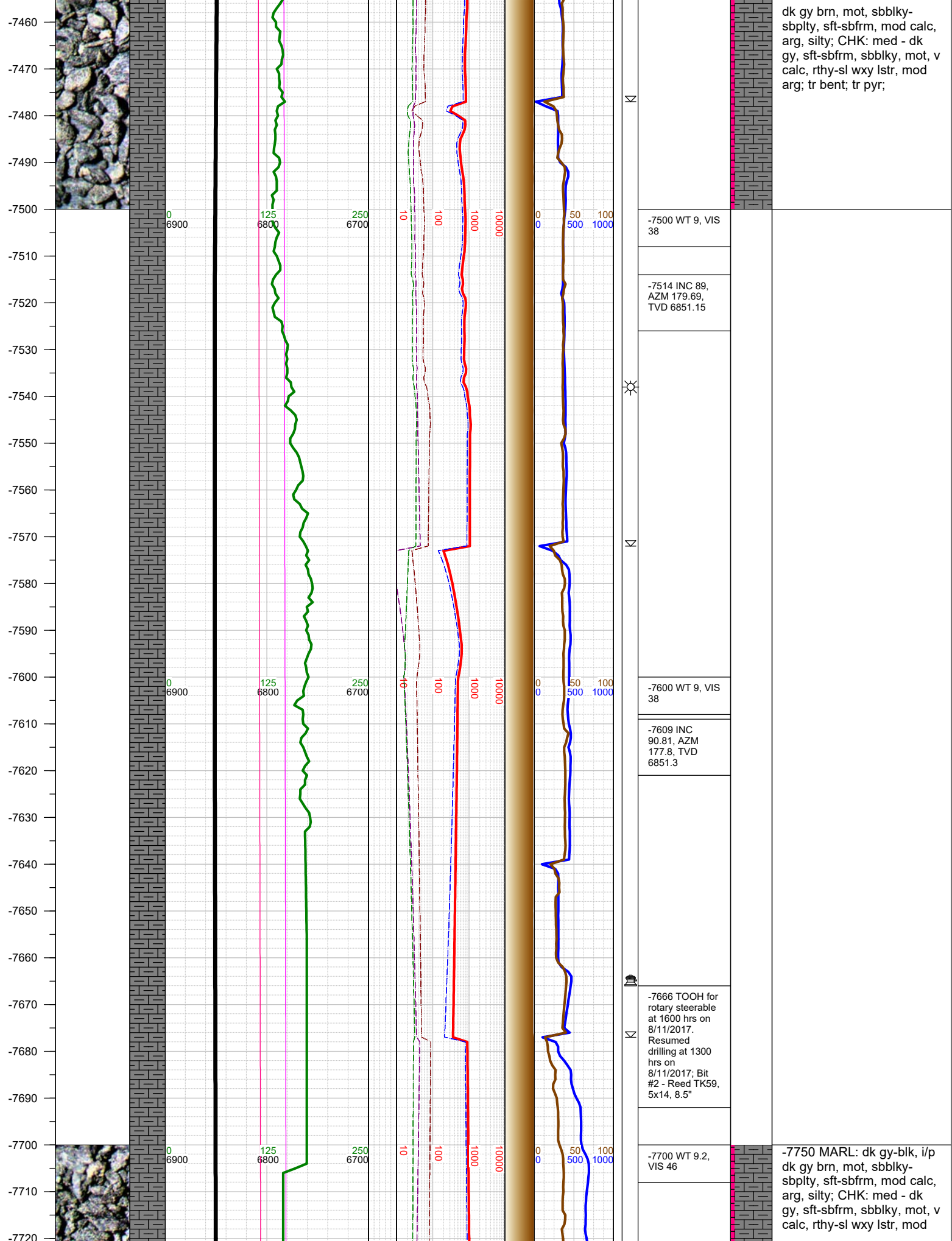


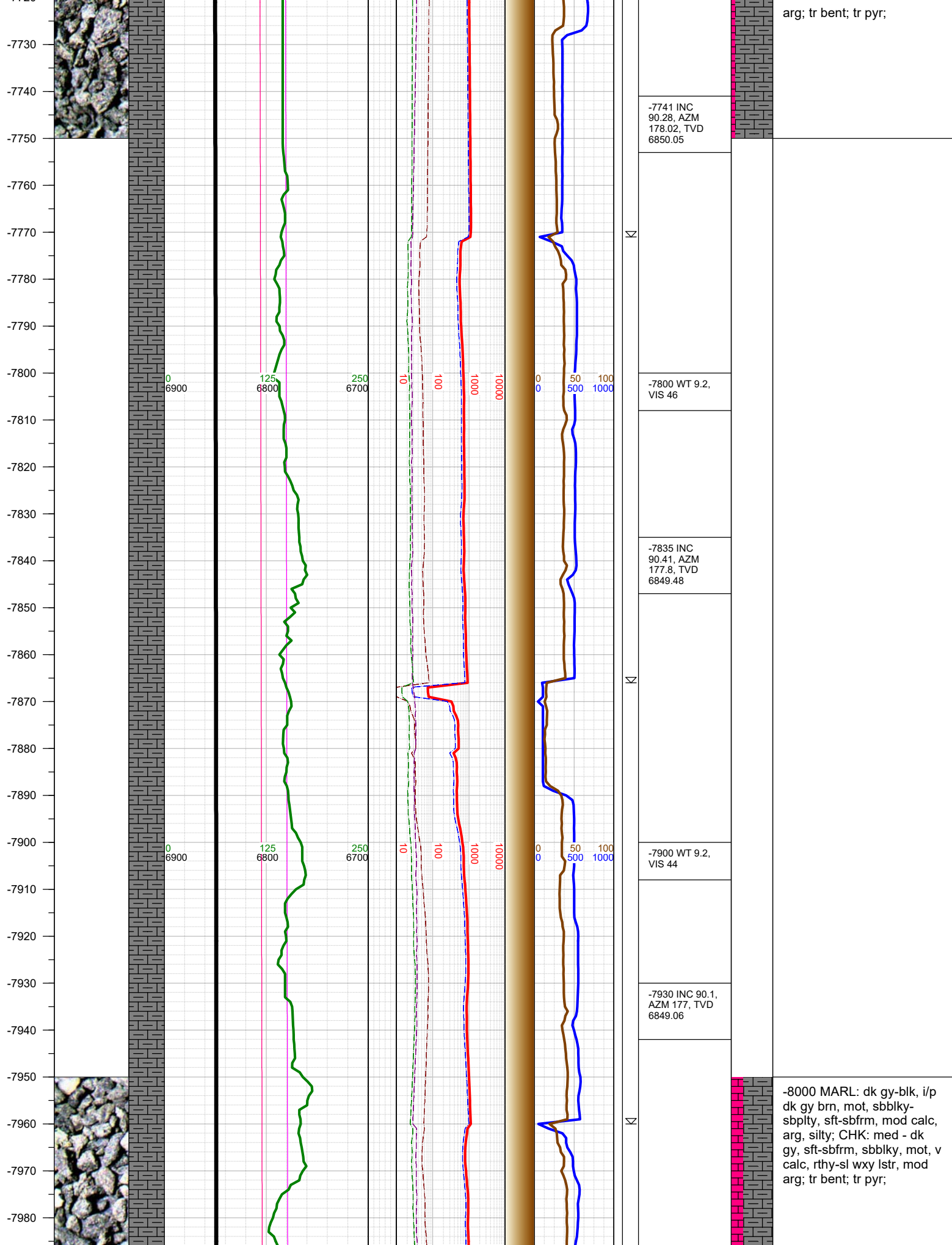






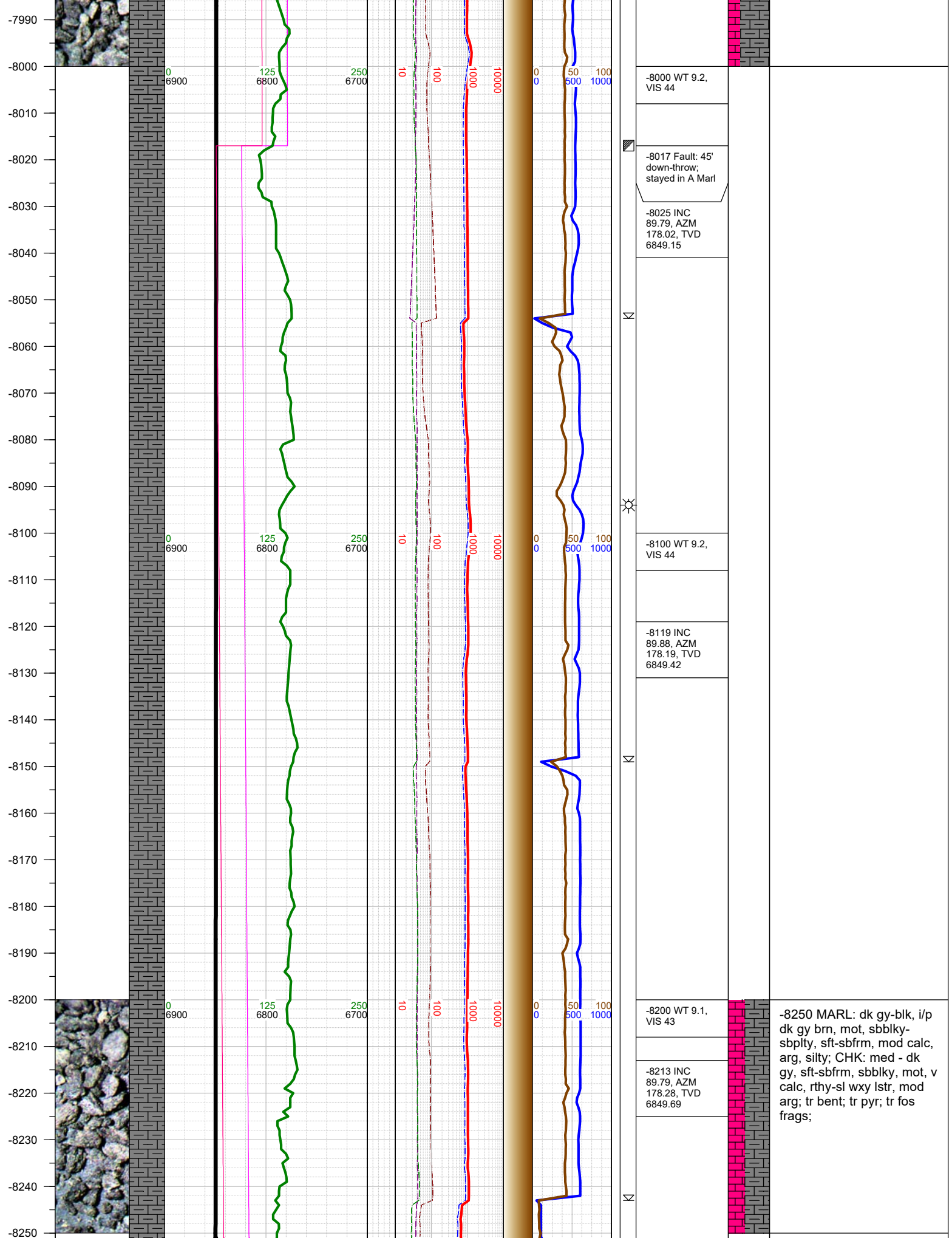


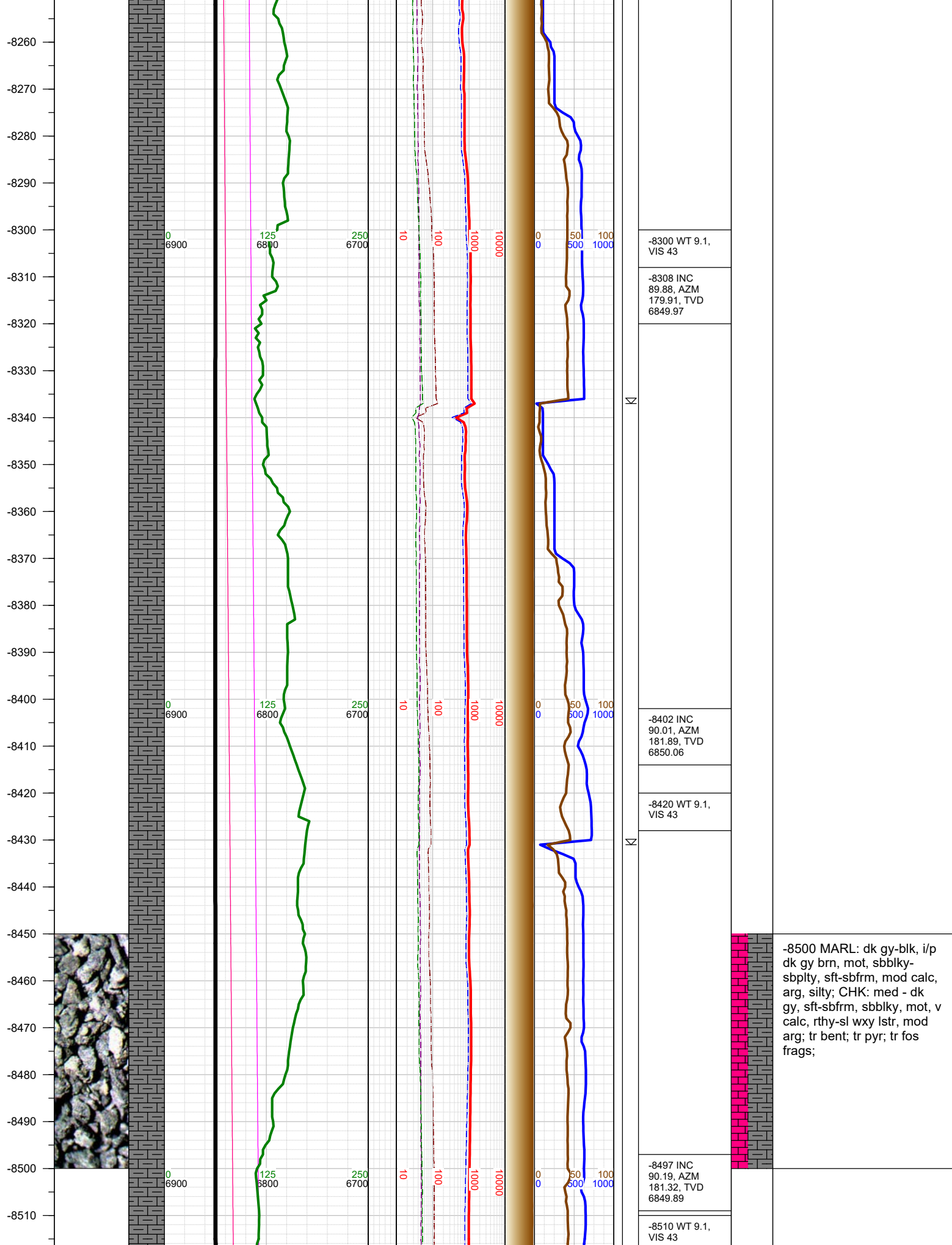


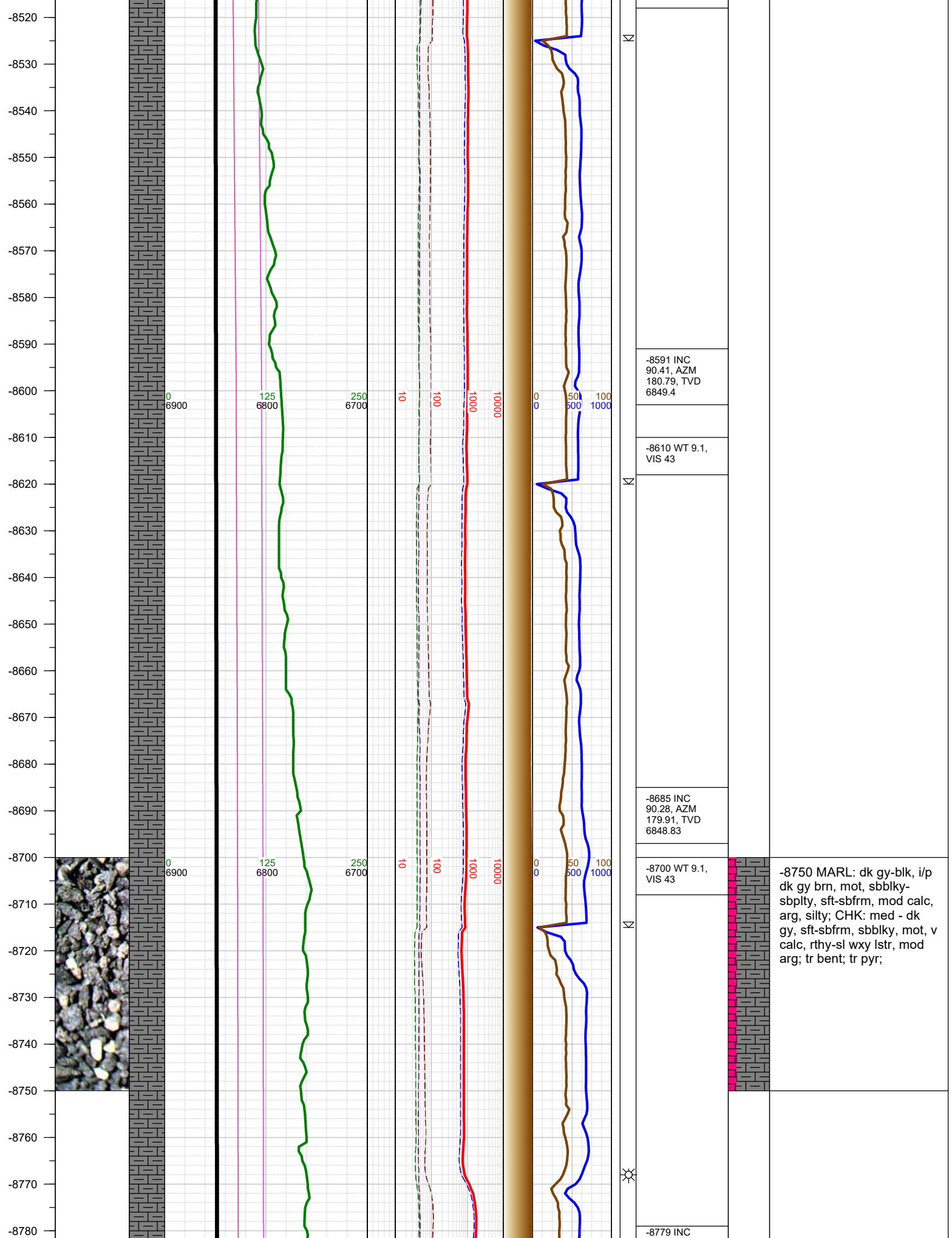


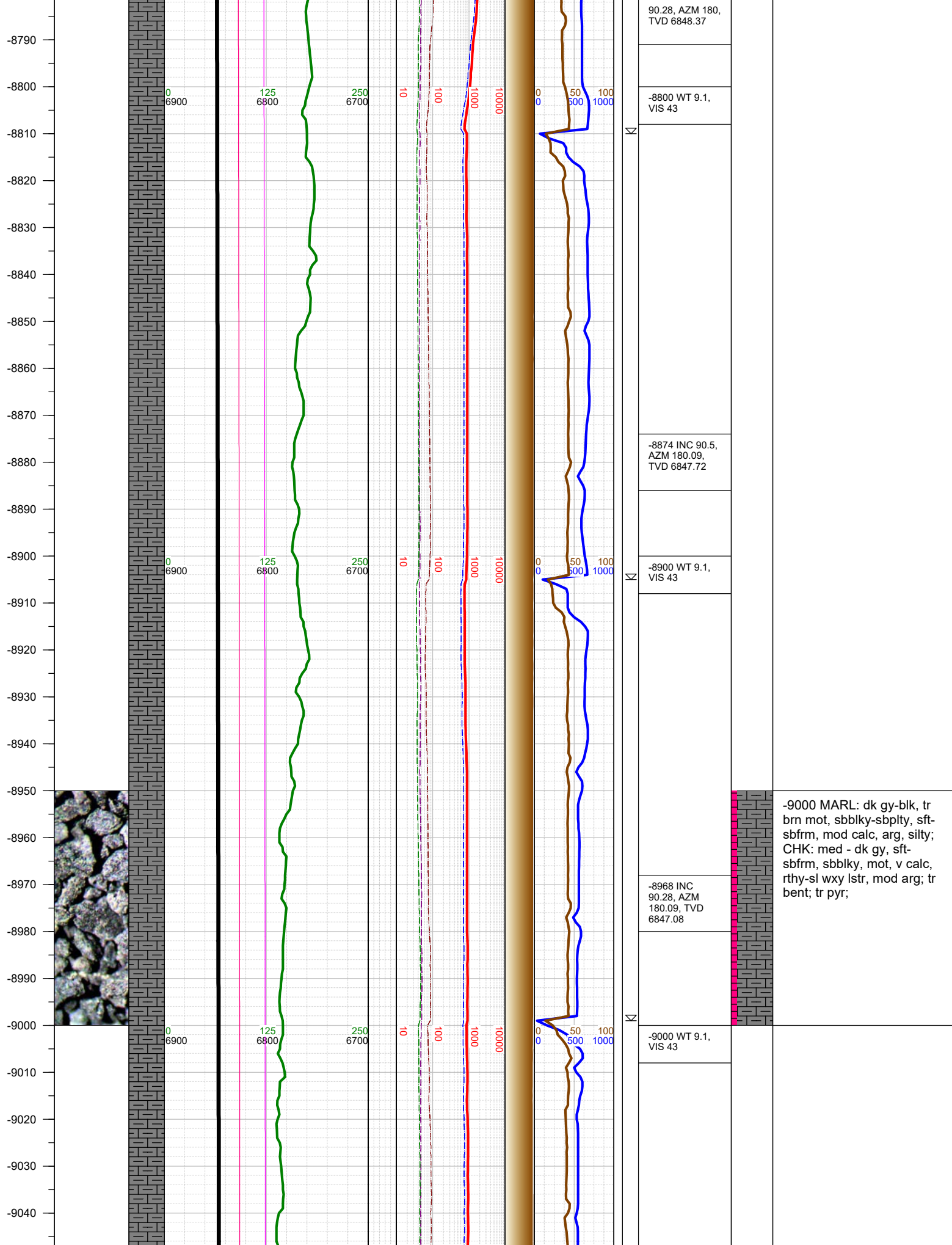
arg; tr bent; tr pyr;

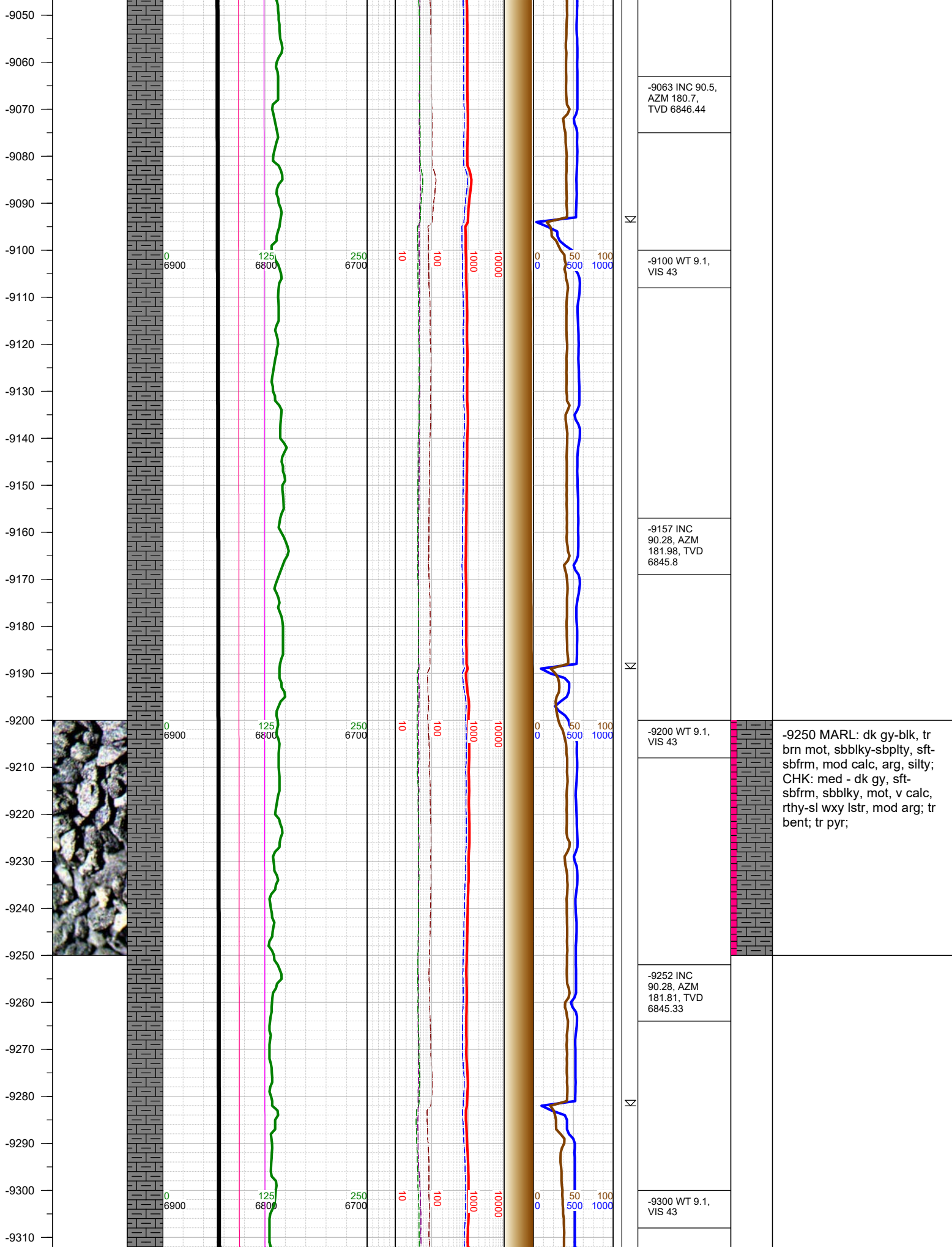
-8000 MARL: dk gy-blk, i/p dk gy brn, mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; CHK: med - dk gy, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr, mod arg; tr bent; tr pyr;

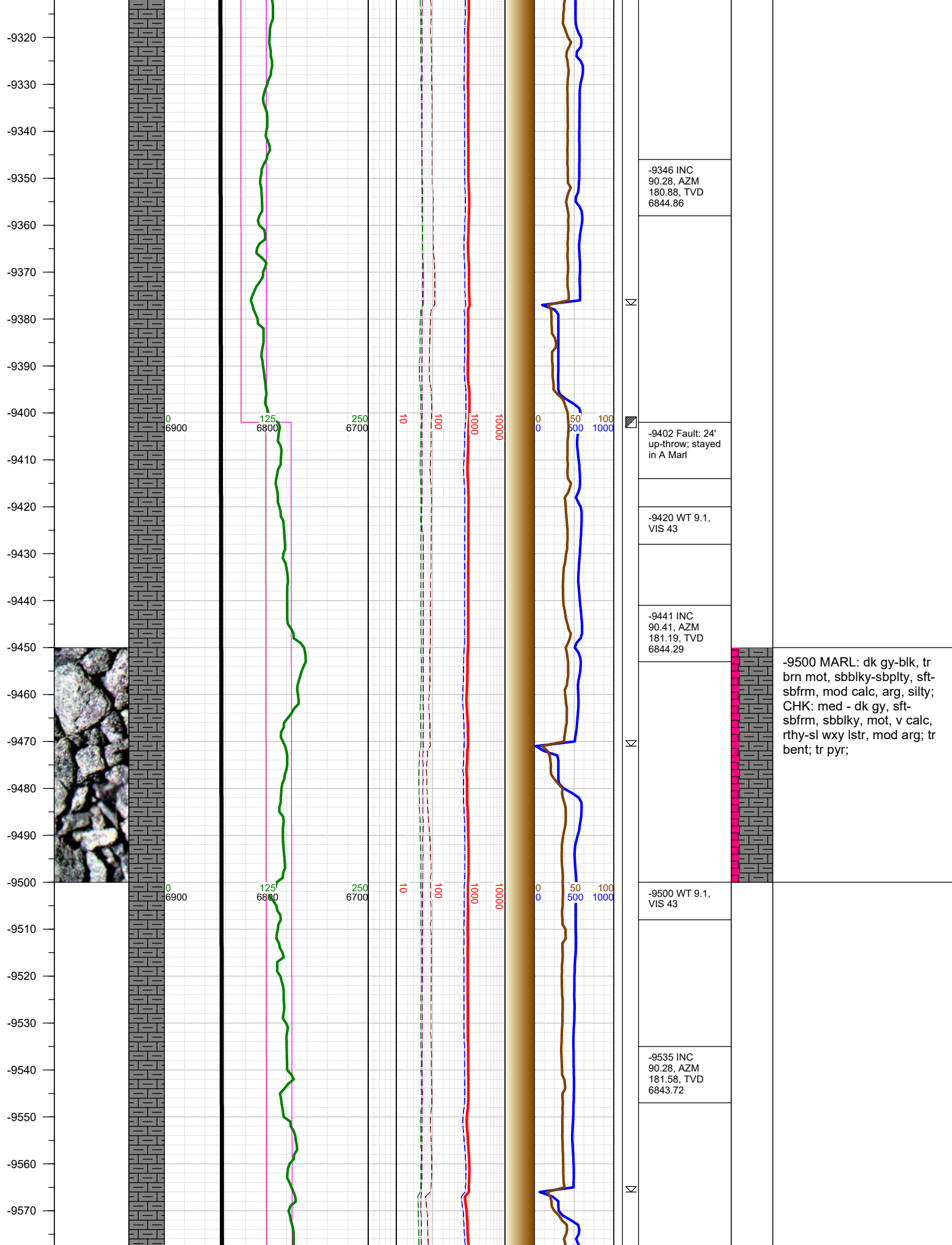


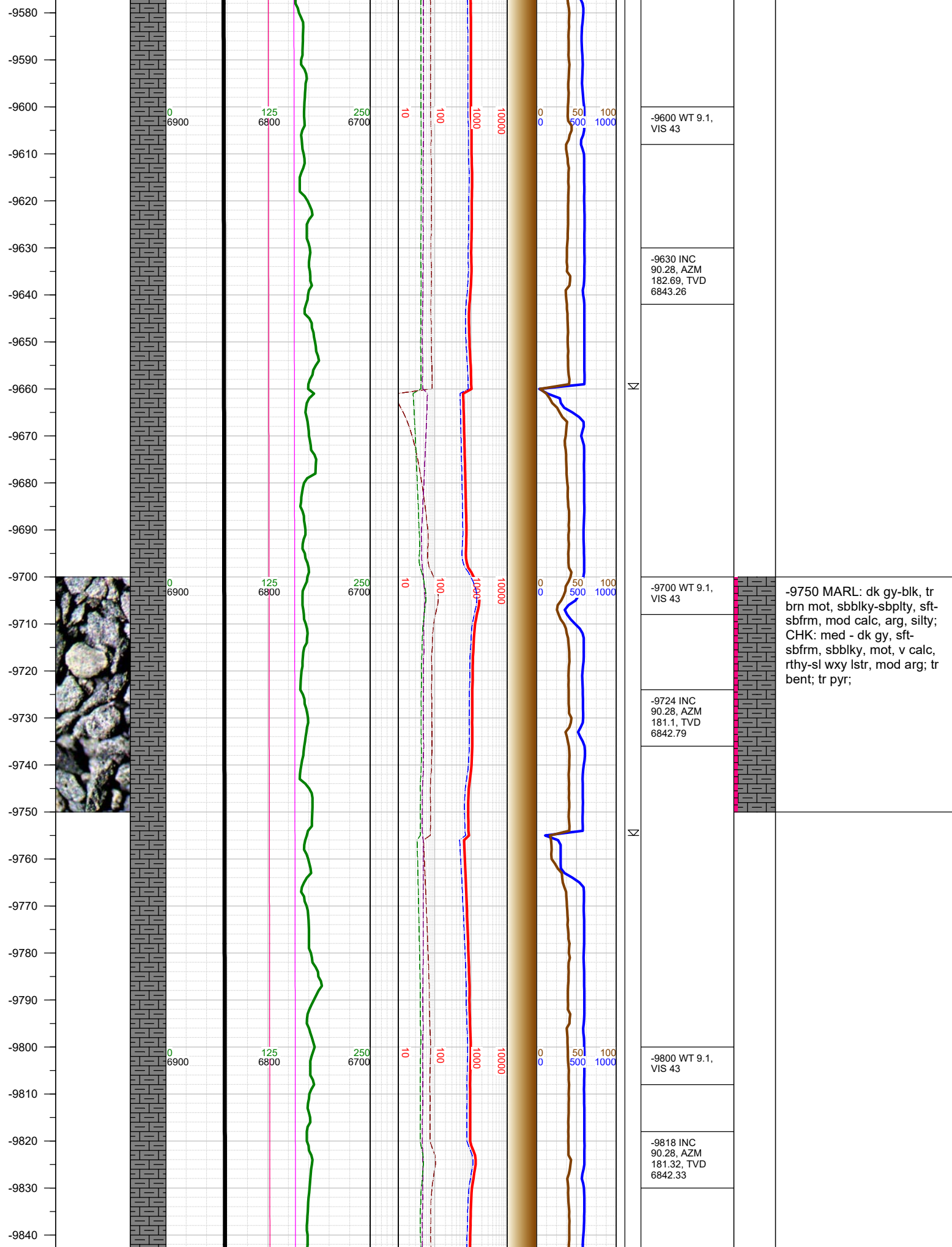


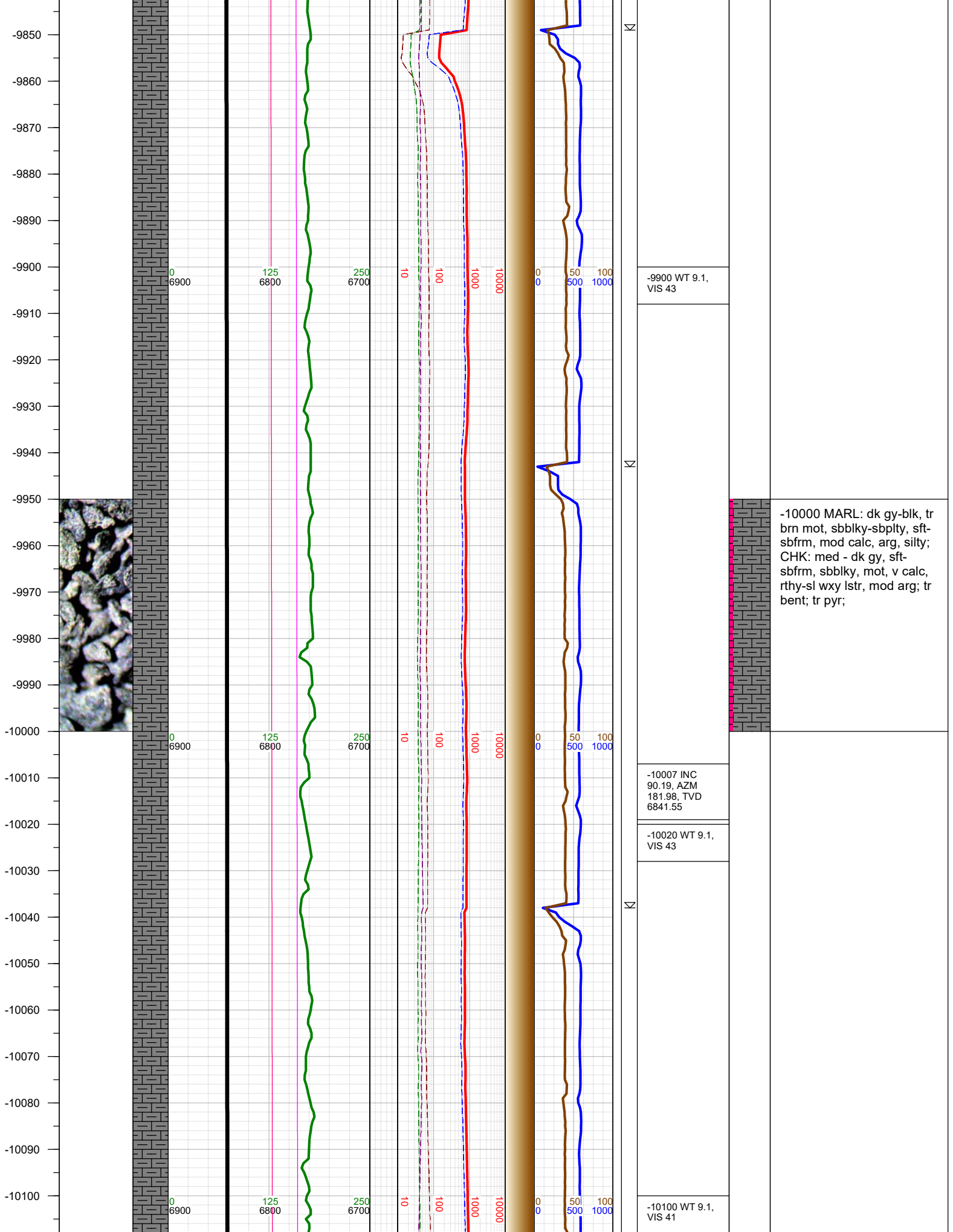


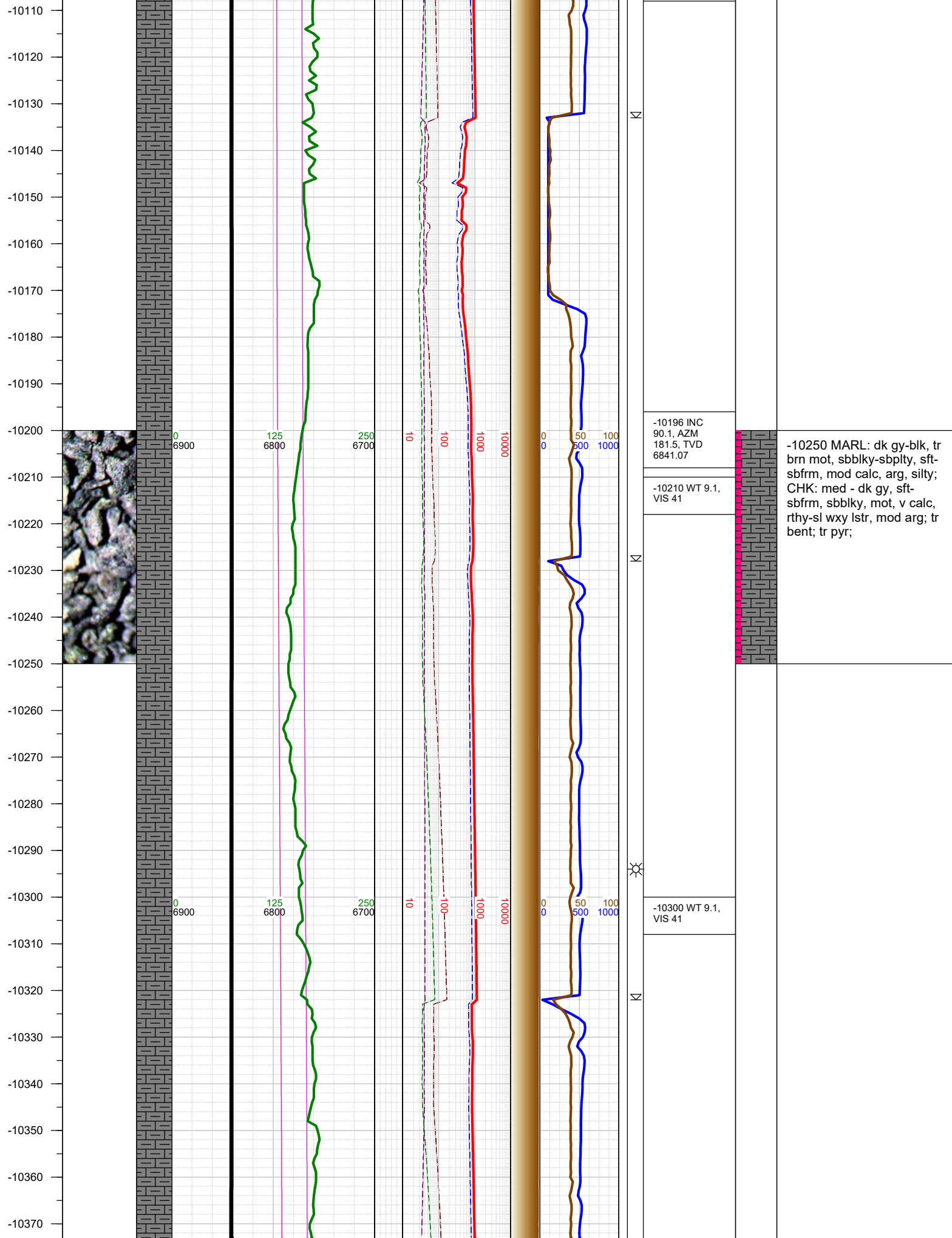


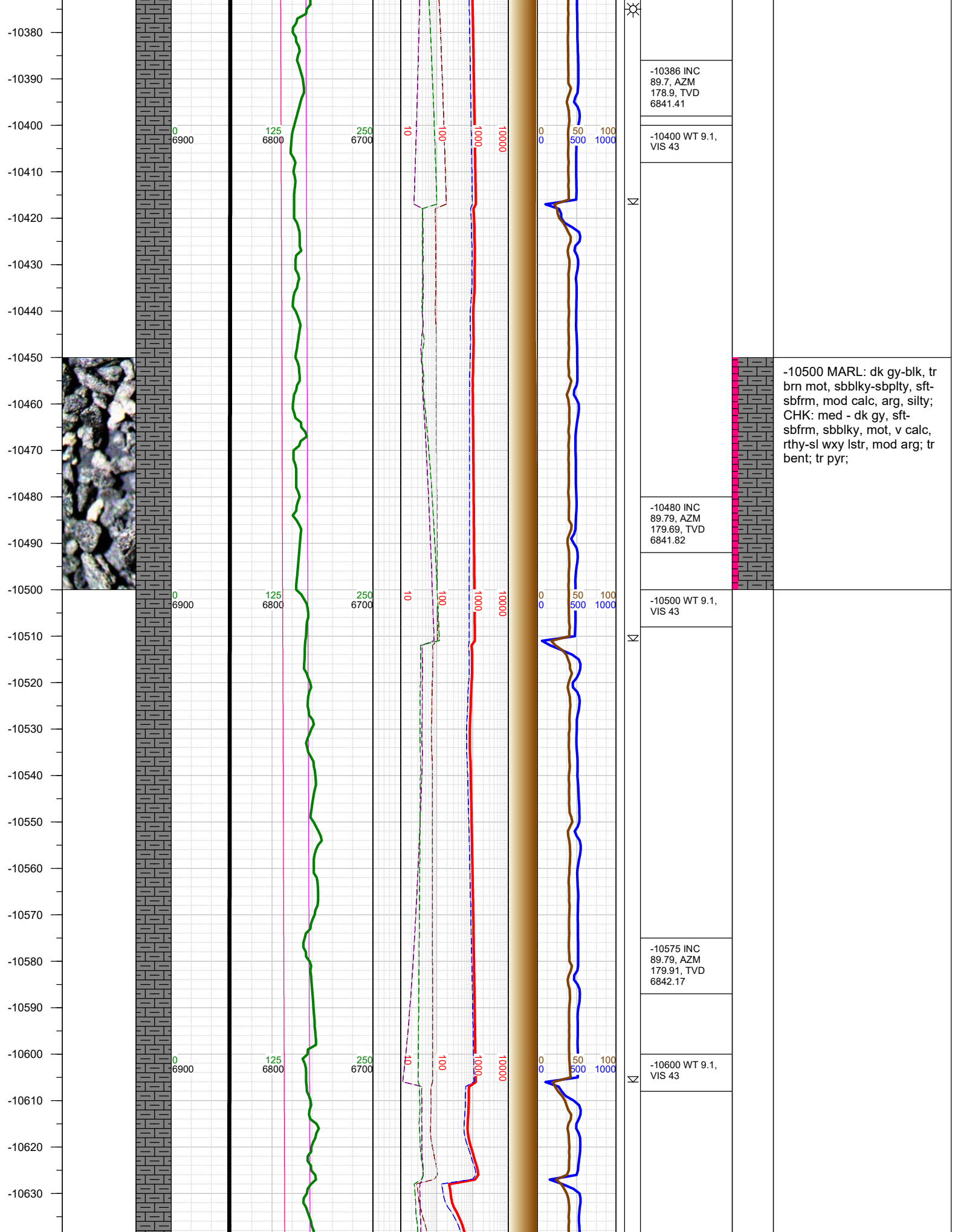




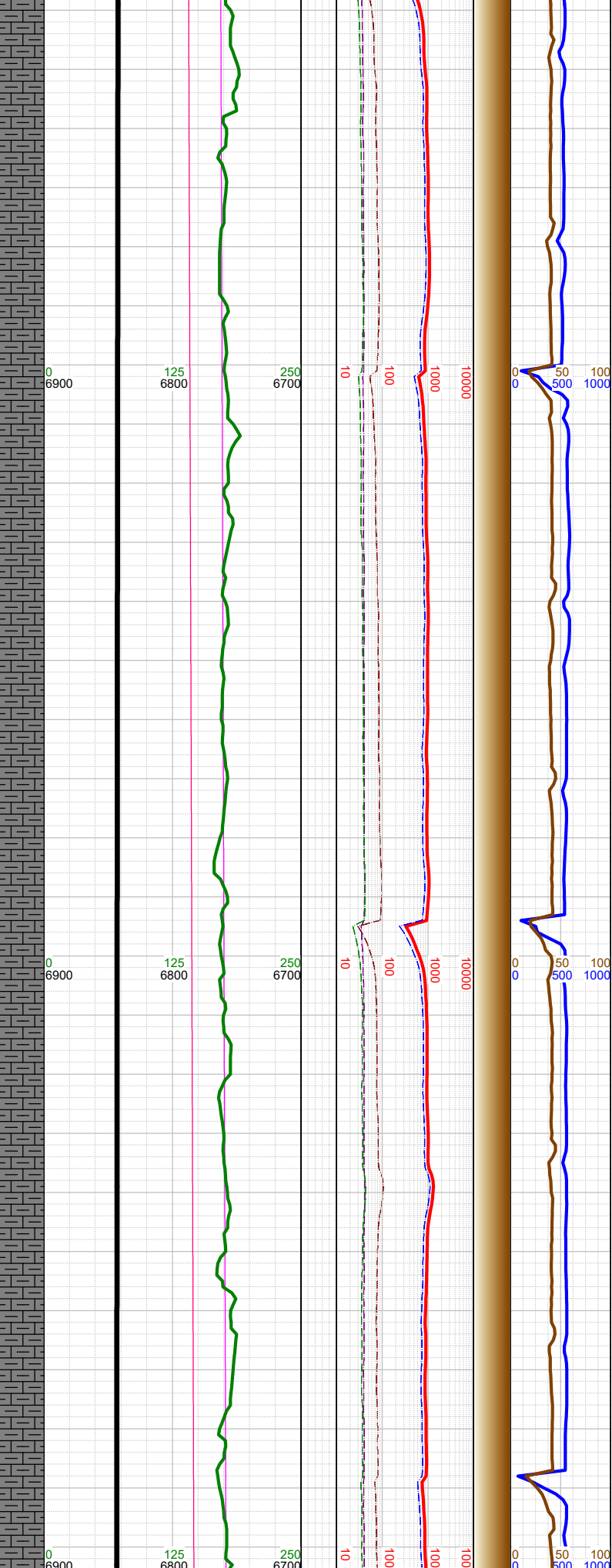




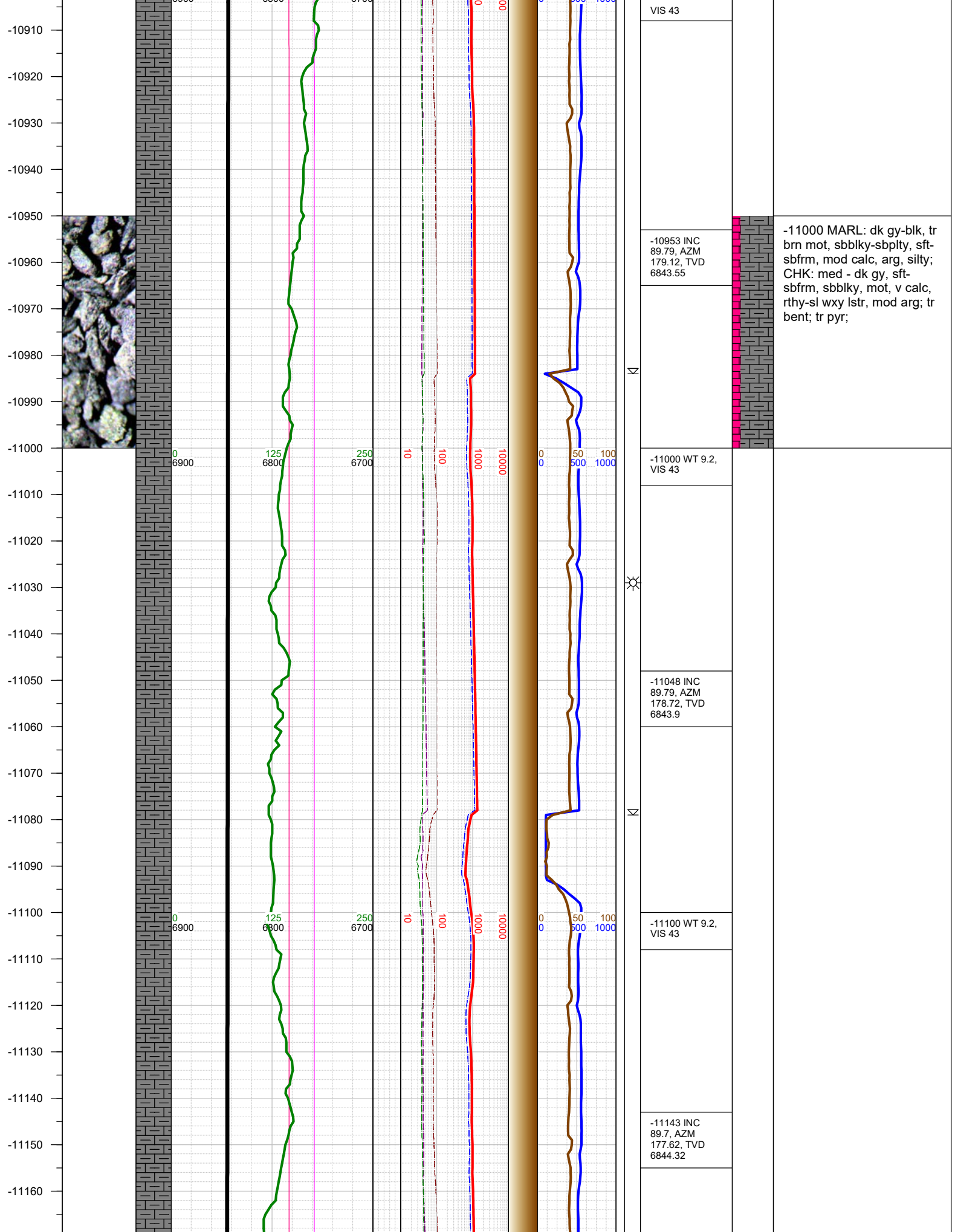


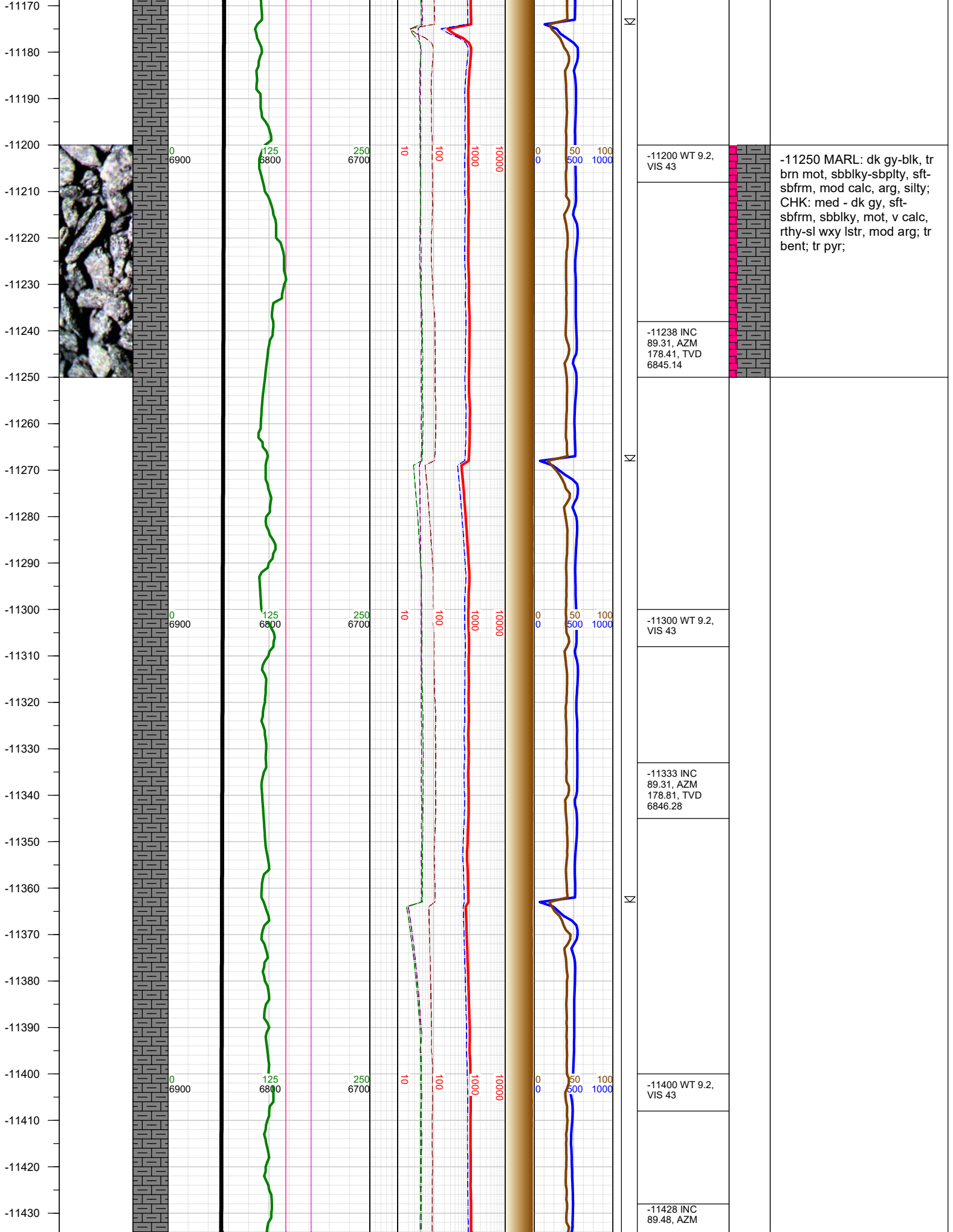


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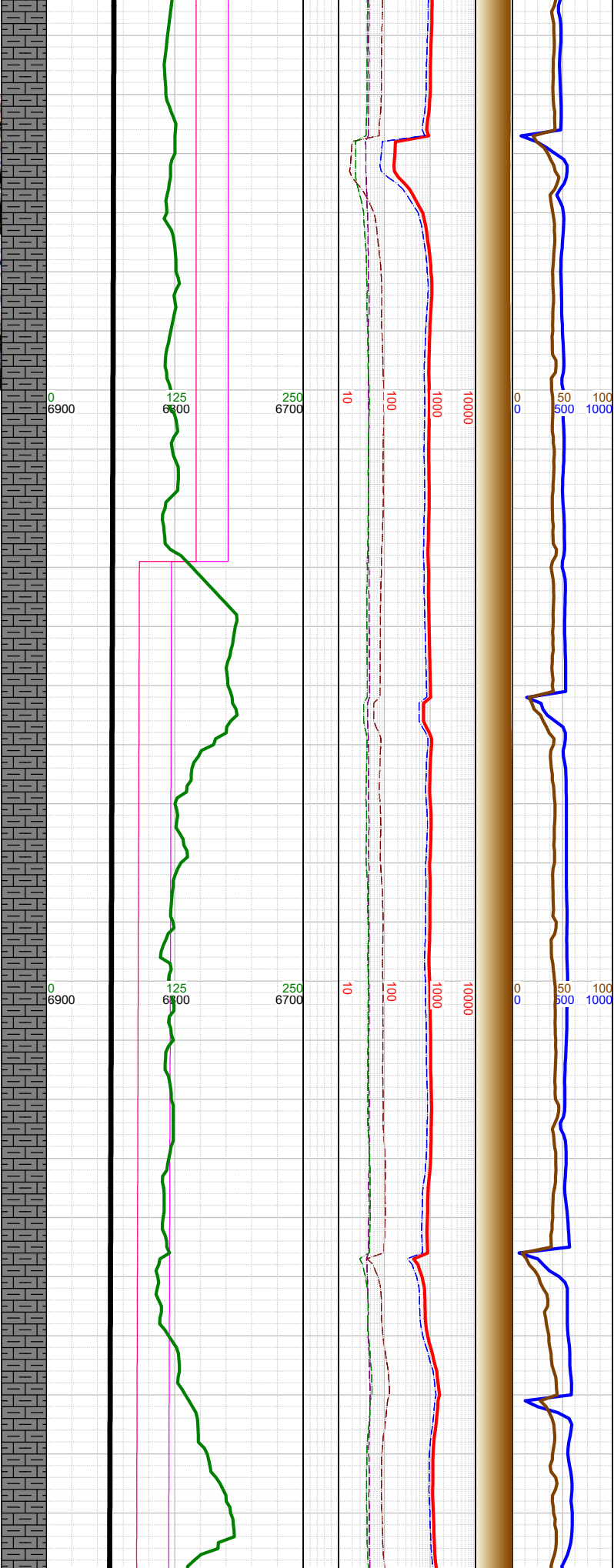
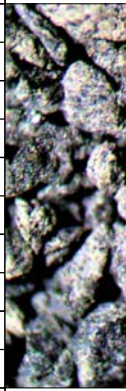


N	-10670 INC 89.7, AZM 179.12, TVD 6842.59	
	-10700 WT 9.1, VIS 43	-10750 MARL: dk gy-blk, tr brn mot, sbblky-sbplty, sft- sbfrm, mod calc, arg, silty; CHK: med - dk gy, sft- sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr, mod arg; tr bent; mod pyr;
N	-10764 INC 89.79, AZM 177.88, TVD 6843.01	
	-10800 WT 9.1, VIS 43	
N	-10858 INC 89.88, AZM 177.8, TVD 6843.28	
	-10900 WT 9.1,	

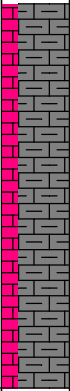




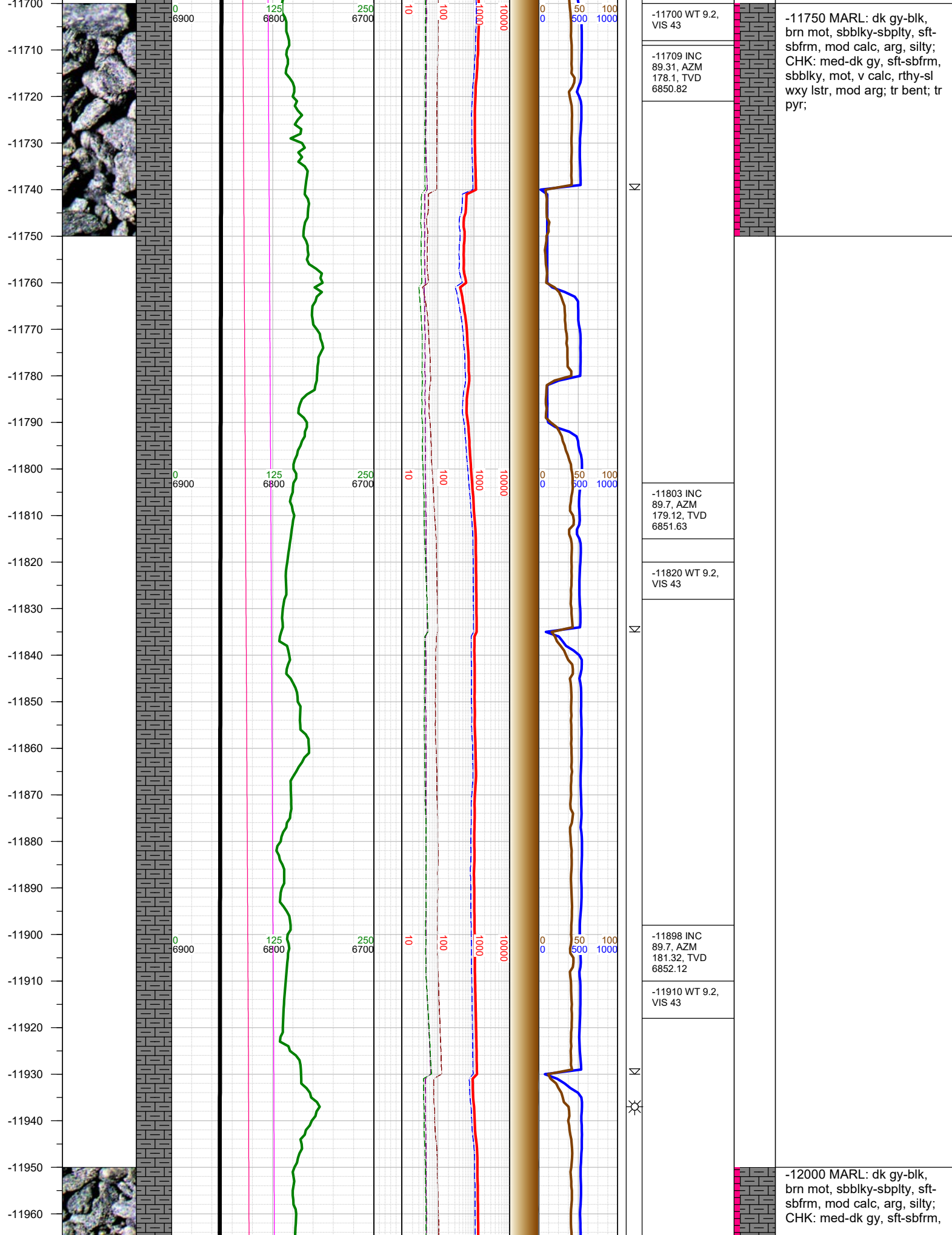
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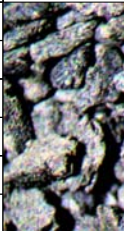
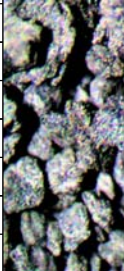
177.49, TVD 6847.28
177.49, TVD 6847.28
11500 WT 9.2, VIS 43
11521 INC 89.22, AZM 178.59, TVD 6848.34
11529 Fault: 44' down-throw; stayed in A Marl
11551 0000 hrs on 8/12/2017
11600 WT 9.2, VIS 43
11615 INC 89.22, AZM 177.8, TVD 6849.61



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



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-11993 INC
89.79, AZM
181.89, TVD
6852.55

-12010 WT 9.2,
VIS 43

-12087 INC
89.7, AZM
182.6, TVD
6852.96

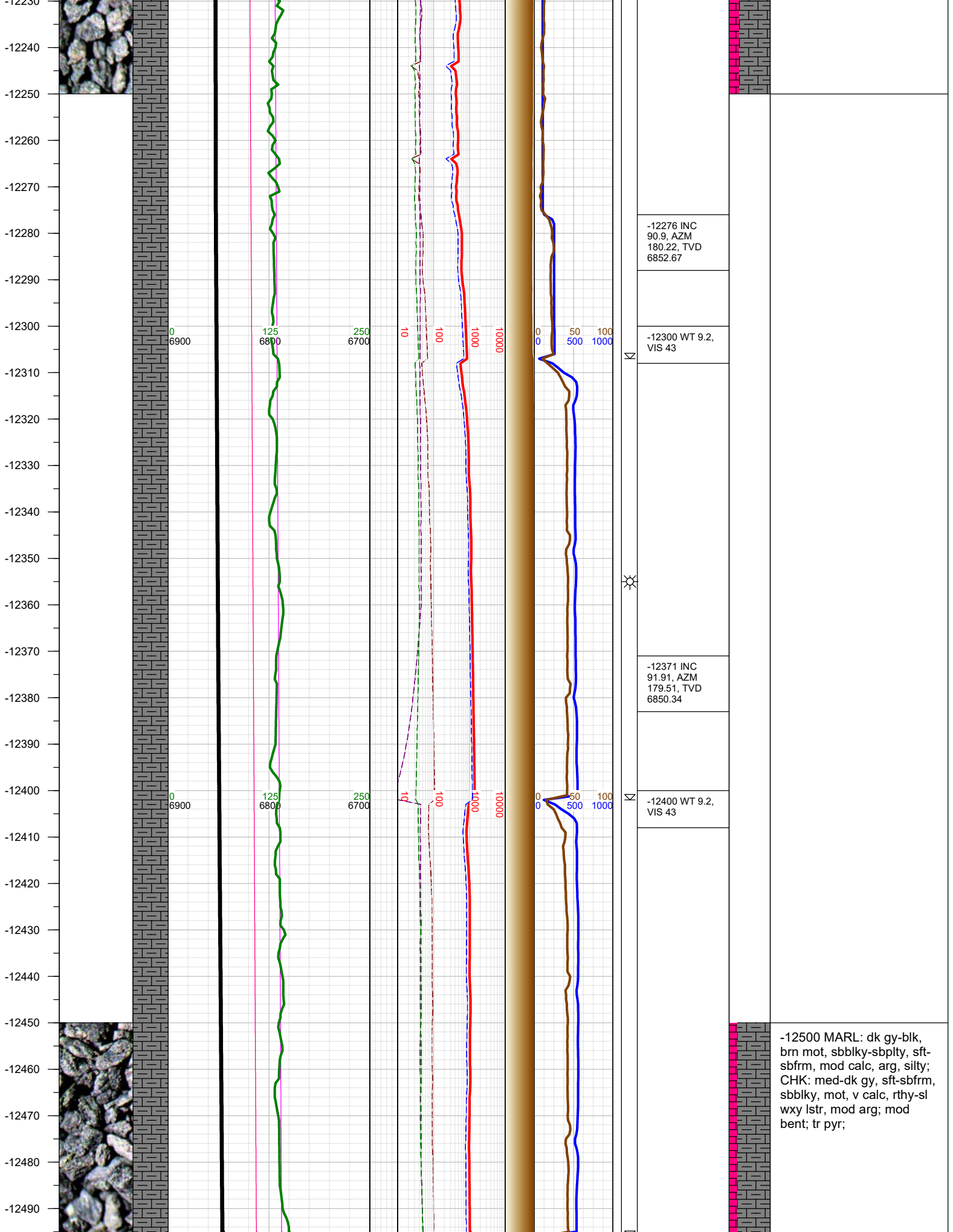
-12100 WT 9.2,
VIS 43

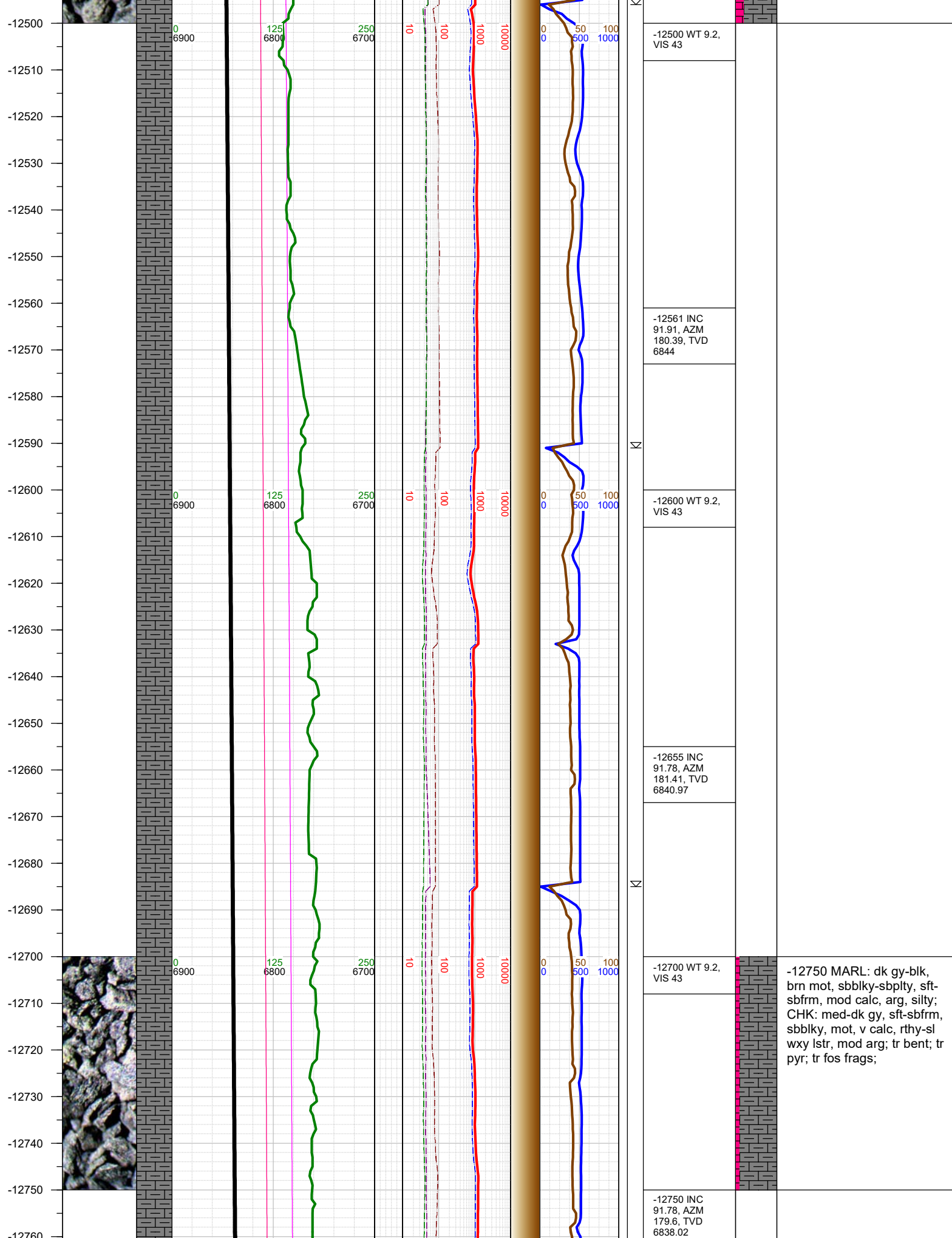
-12182 INC
89.88, AZM
181.41, TVD
6853.31

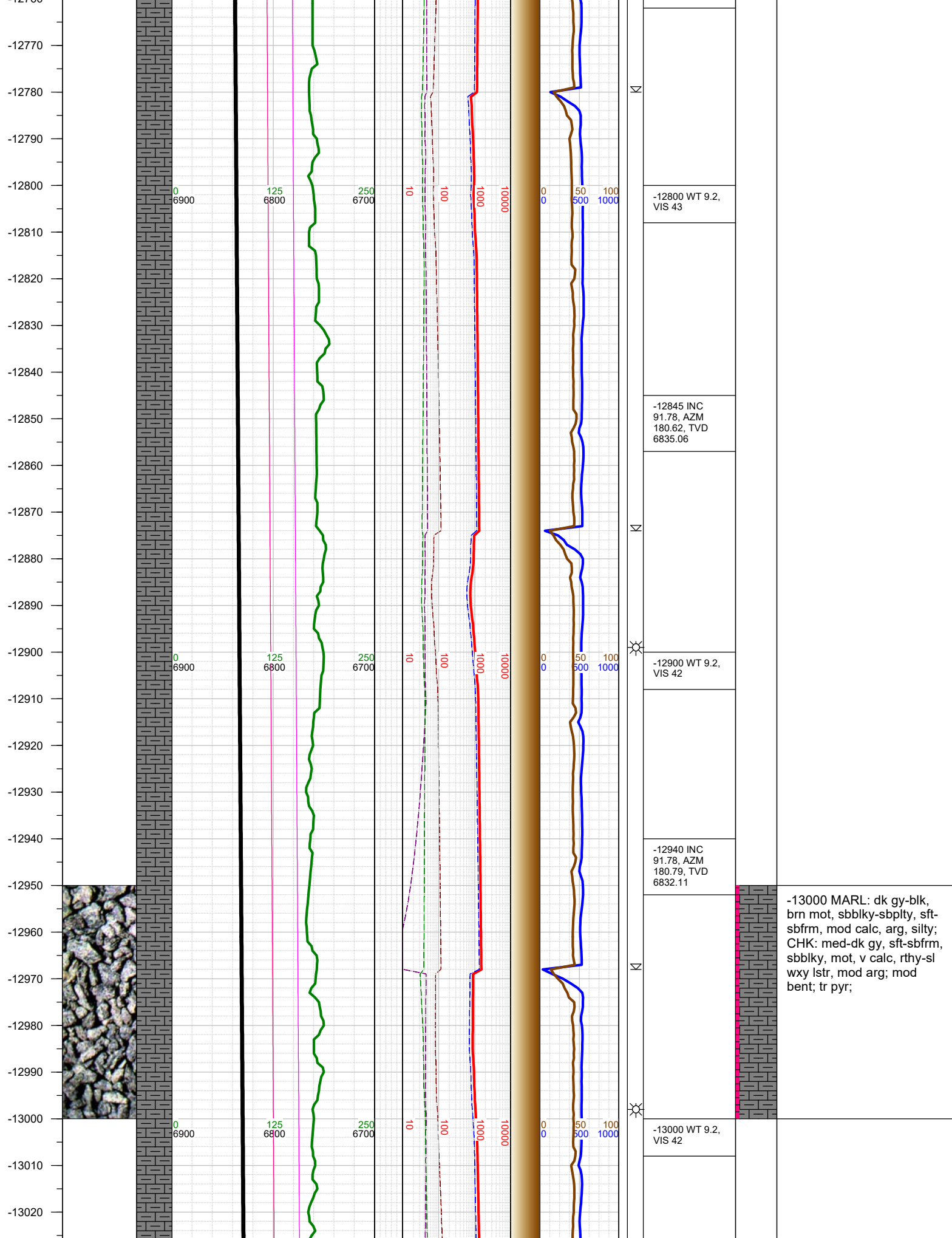
-12200 WT 9.2,
VIS 43

sbblky, mot, v calc, rthy-sl
wxy lstr, mod arg; tr bent; tr
pyr;

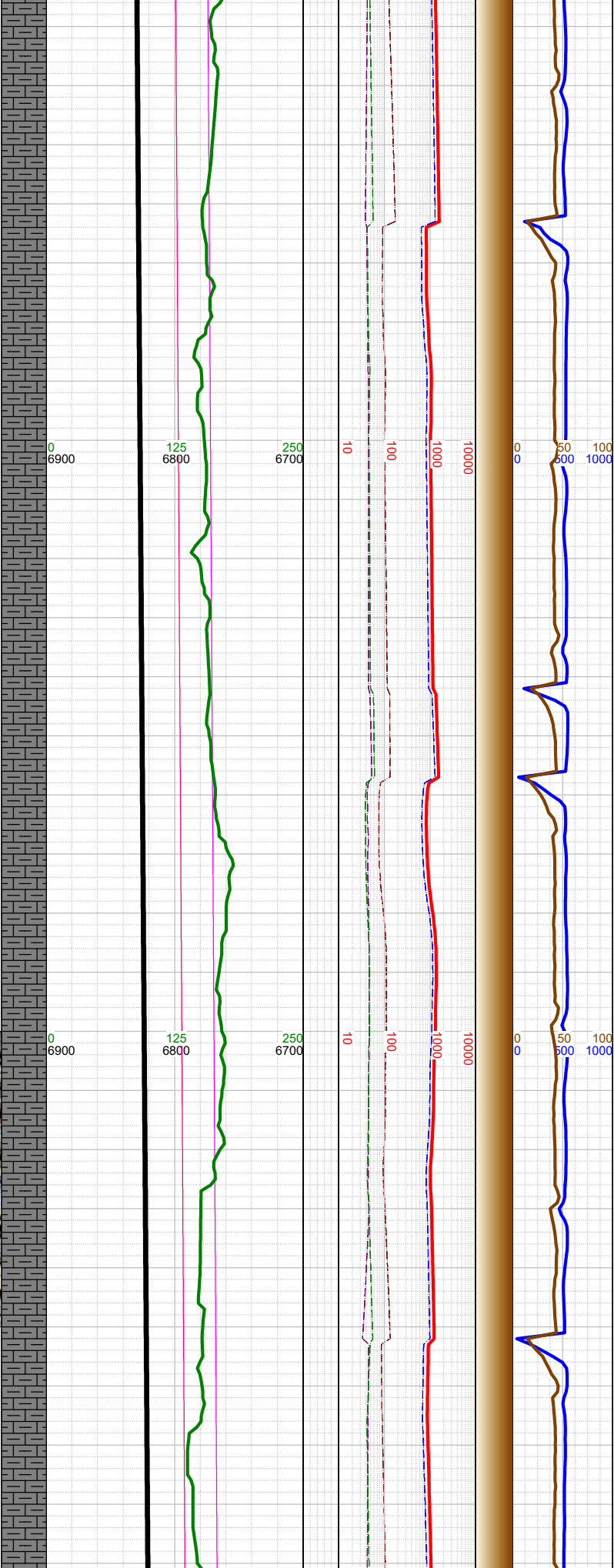
-12250 MARL: dk gy-blk, tr
brn mot, sbblky-sbplty, sft-
sbfrm, mod calc, arg, silty;
CHK: med - dk gy, sft-
sbfrm, sbblky, mot, v calc,
rthy-sl wxy lstr, mod arg; tr
bent; tr foss frags; tr pyr;



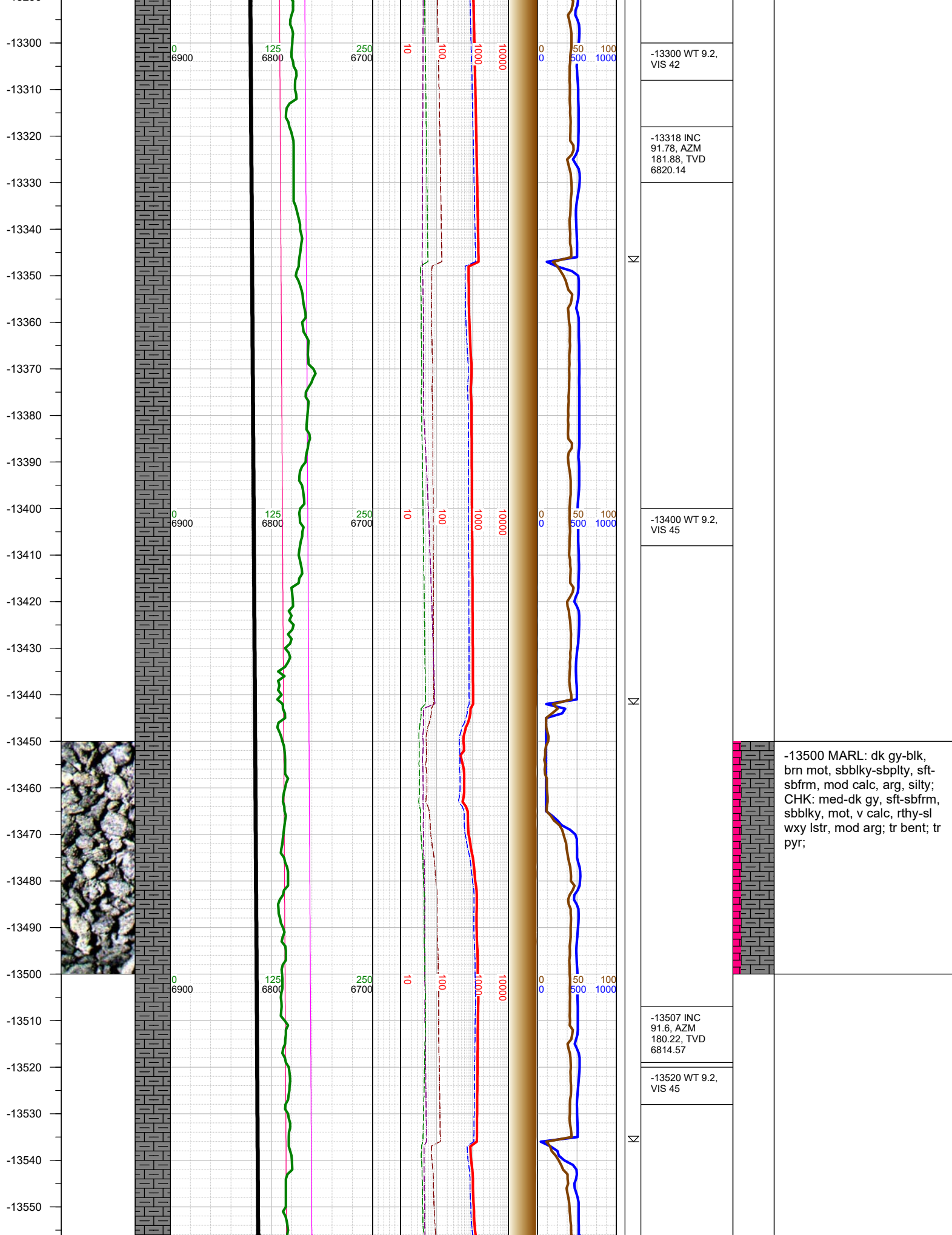


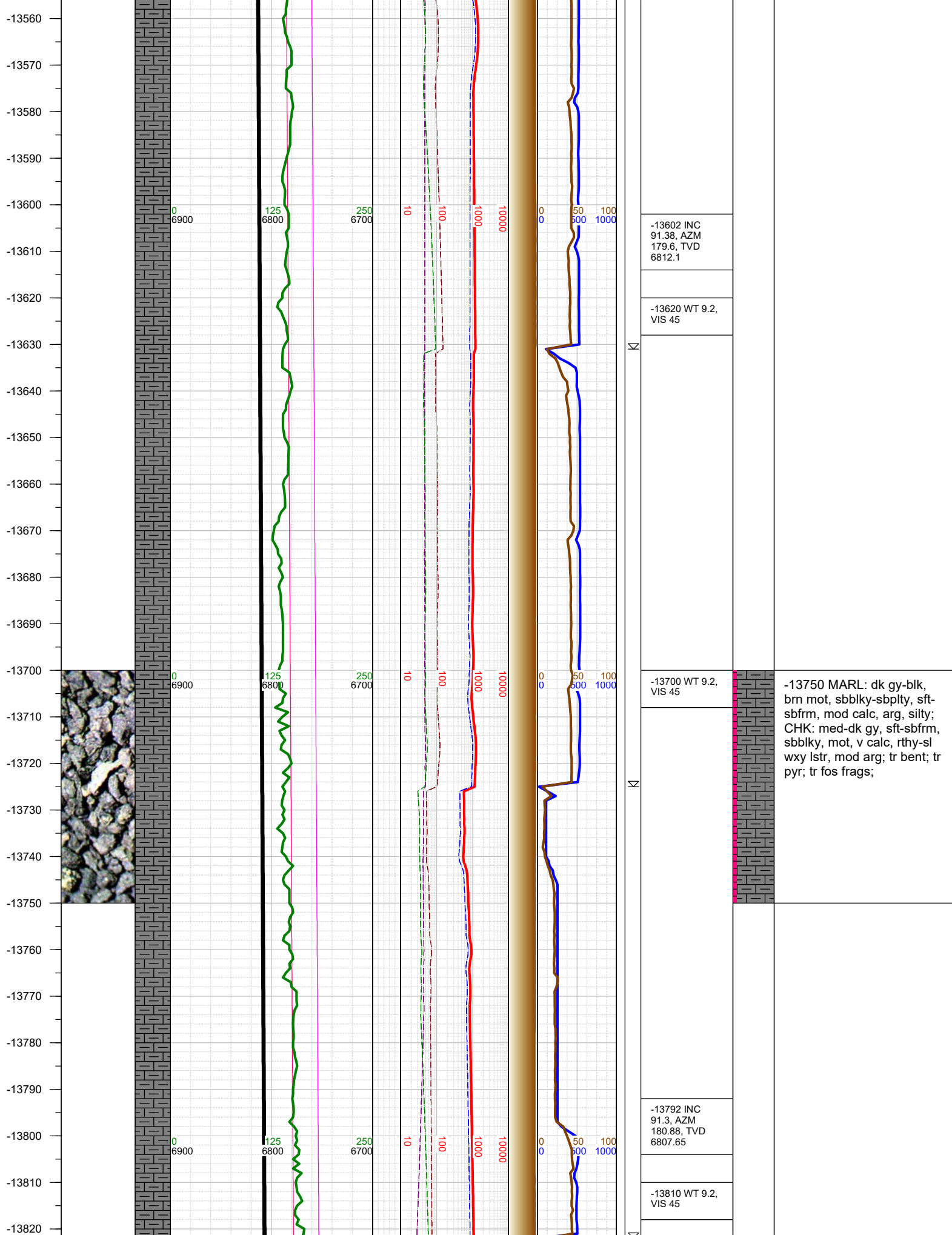


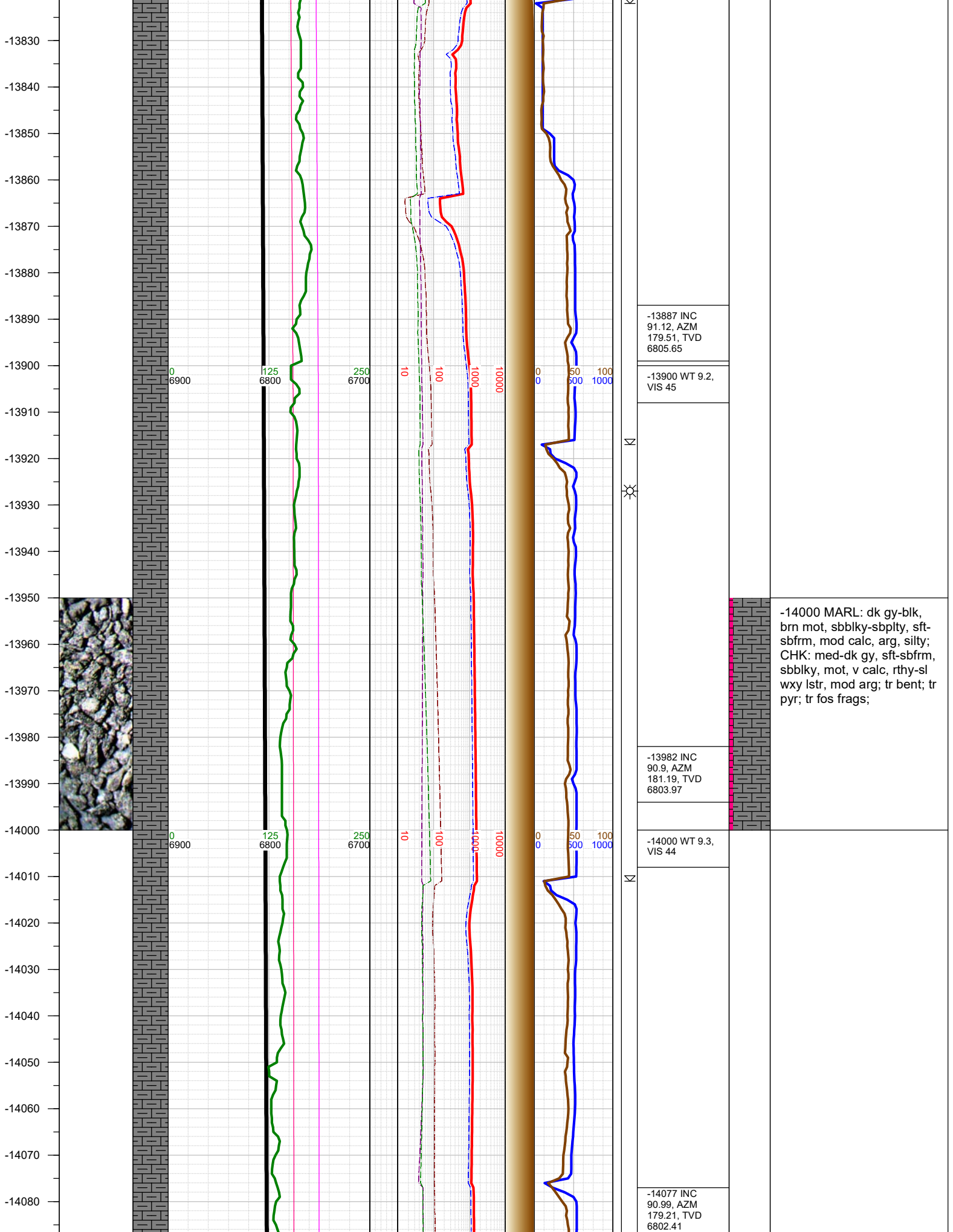
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X	-13034 INC 91.78, AZM 180.62, TVD 6829.18	
	-13100 WT 9.2, VIS 42	
X	-13129 INC 91.91, AZM 181.1, TVD 6826.12	
	-13200 WT 9.2, VIS 42	-13250 MARL: dk gy-blk, brn mot, sbblky-sbplty, sft- sbfrm, mod calc, arg, silty; CHK: med-dk gy, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr, mod arg; tr bent; tr pyr;
X	-13223 INC 91.78, AZM 181.58, TVD 6823.1	

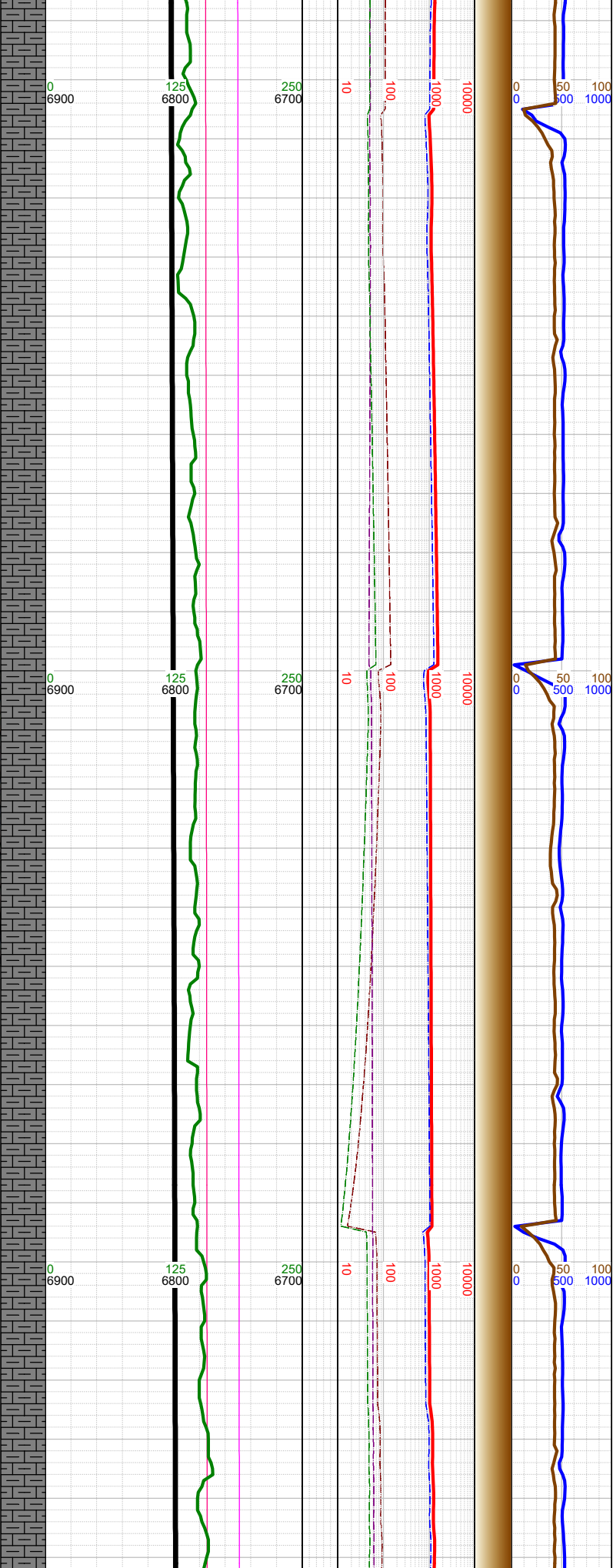
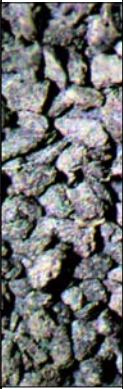






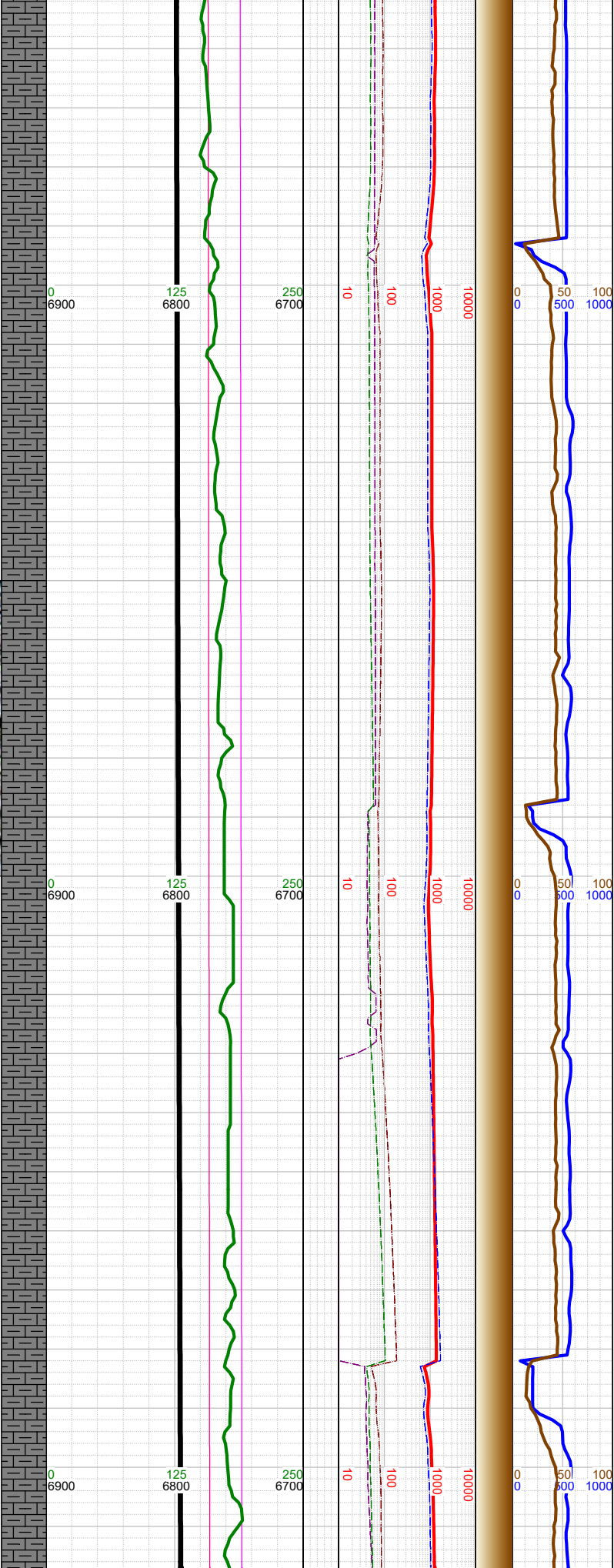
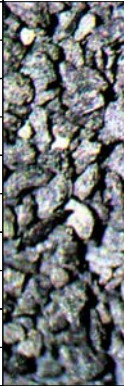
-14000 MARL: dk gy-blk, brn mot, sbblky-sbpity, sft-sbfrm, mod calc, arg, silty; CHK: med-dk gy, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr, mod arg; tr bent; tr pyr; tr fos frags;

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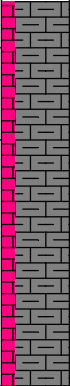


-14100 WT 9.3, VIS 44		
-14200 WT 9.3, VIS 44		<p>-14250 MARL: dk gy-blk, brn mot, sbblky-sbplty, sft-sbfrm, mod calc, arg, silty; CHK: med-dk gy, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr, mod arg; tr bent; tr pyr; tr fos frags;</p>
-14267 INC 90.68, AZM 181.19, TVD 6799.64		
-14300 WT 9.2, VIS 43		

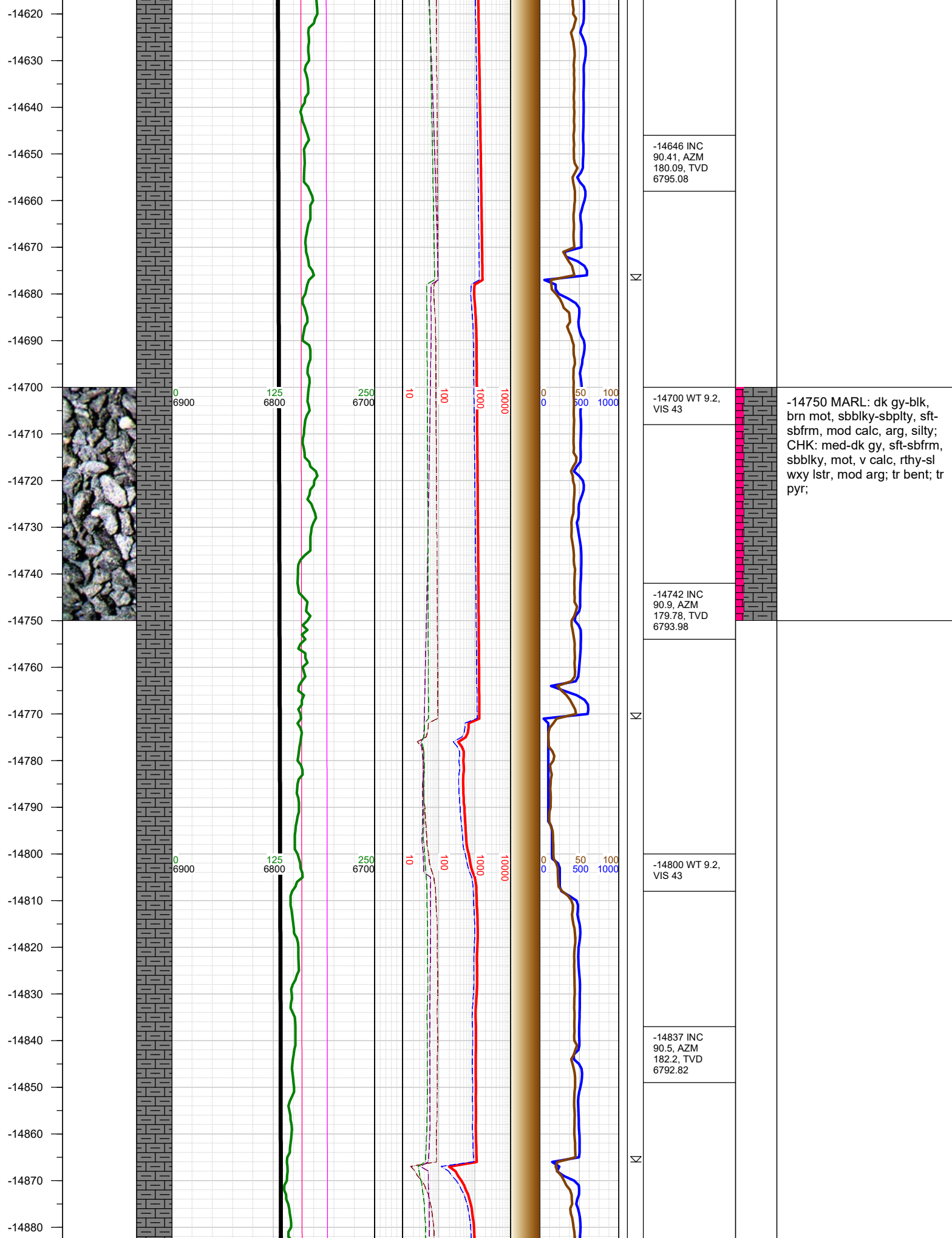
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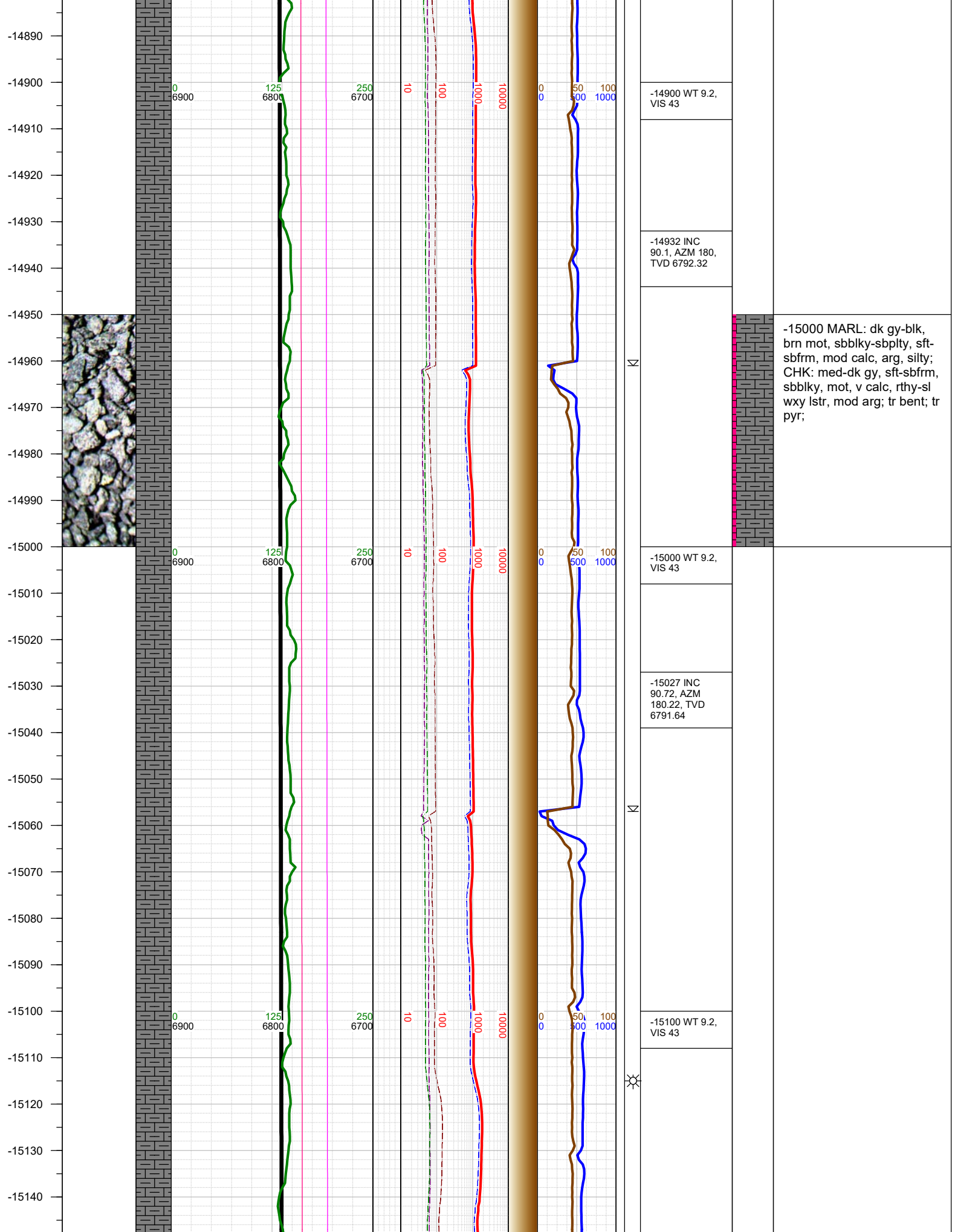


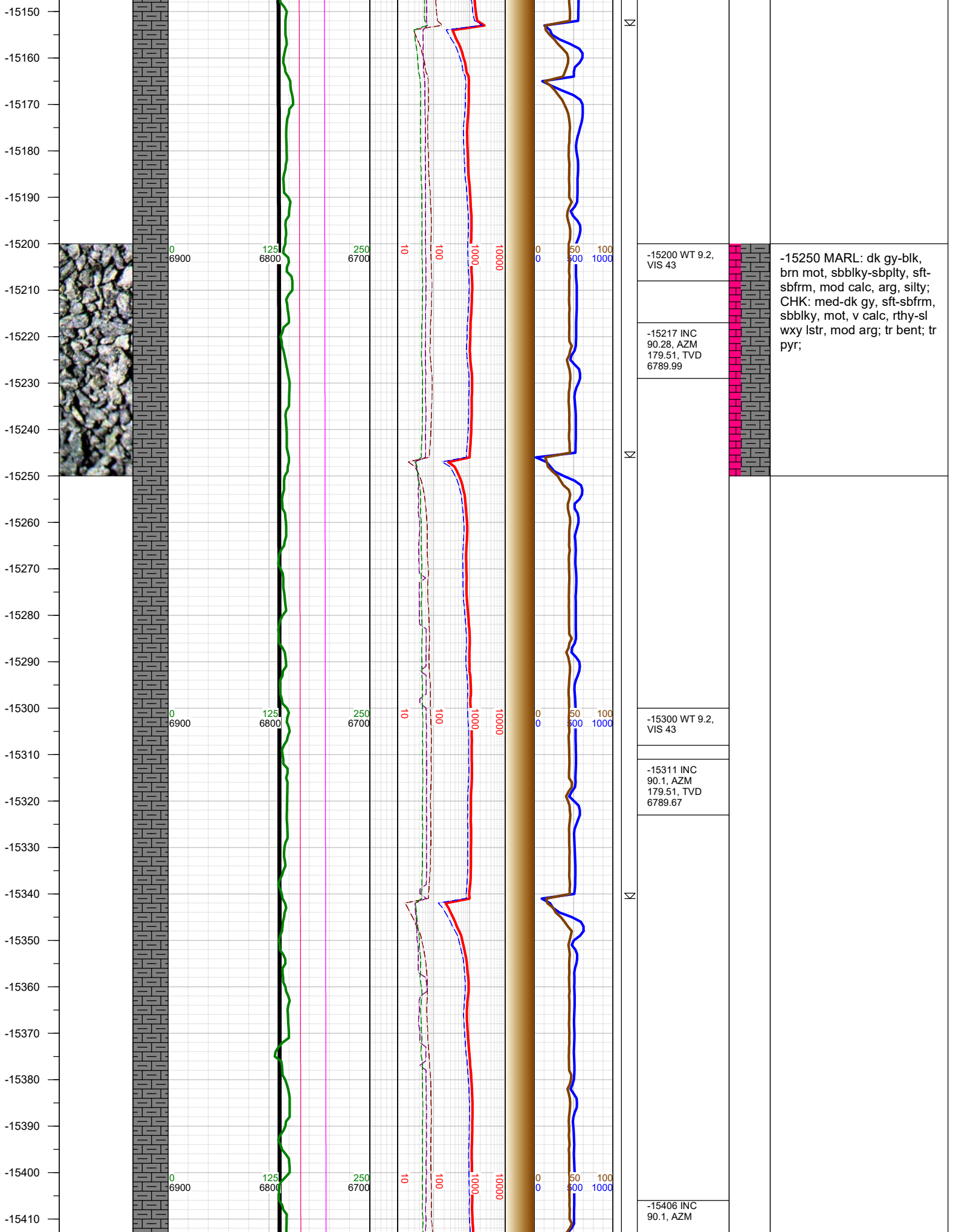
		-14400 WT 9.2, VIS 43
-14456 INC 90.5, AZM 180.22, TVD 6797.69		
-14500 WT 9.2, VIS 43		
-14551 INC 91.12, AZM 180.79, TVD 6796.35		
-14600 WT 9.2, VIS 43		

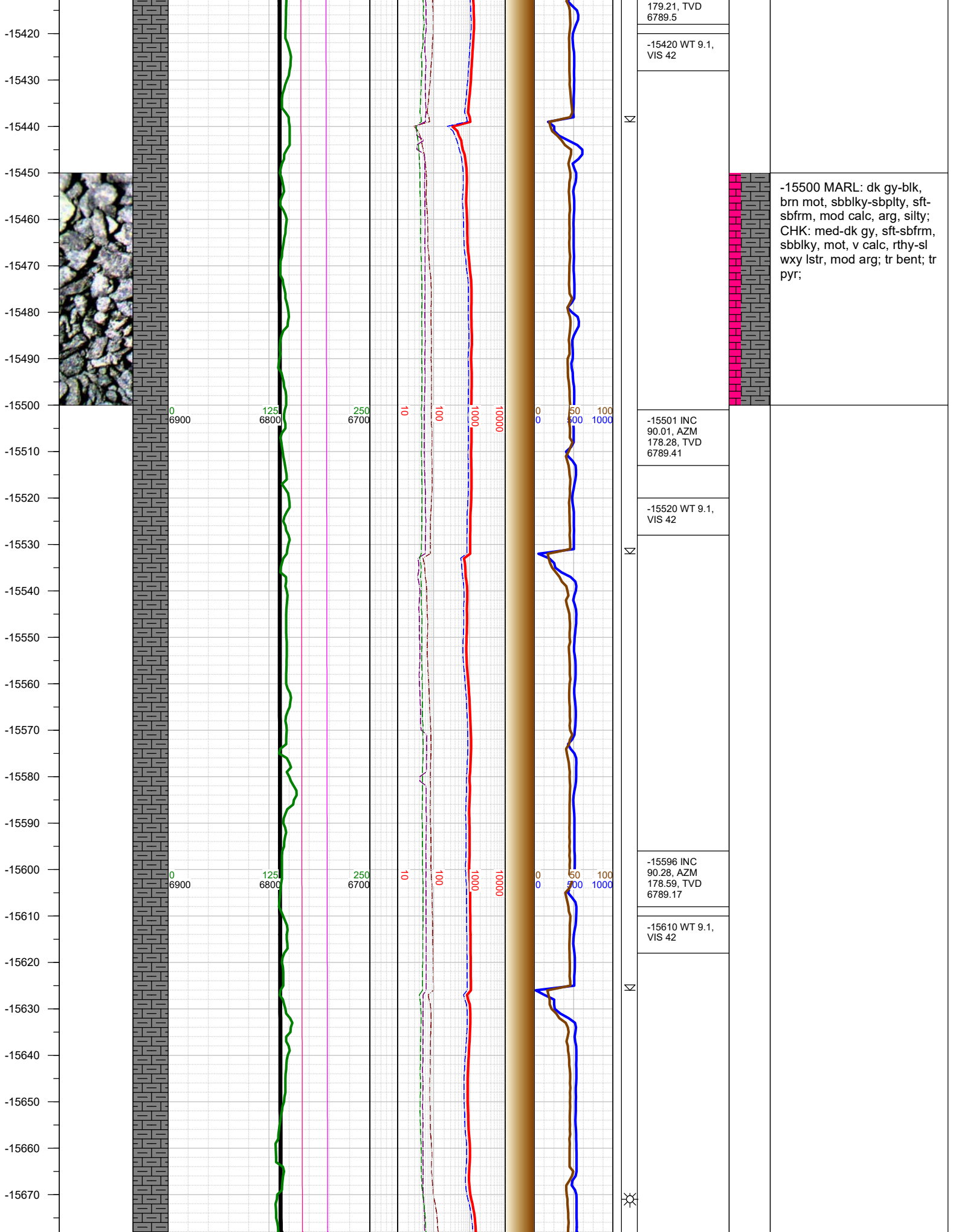


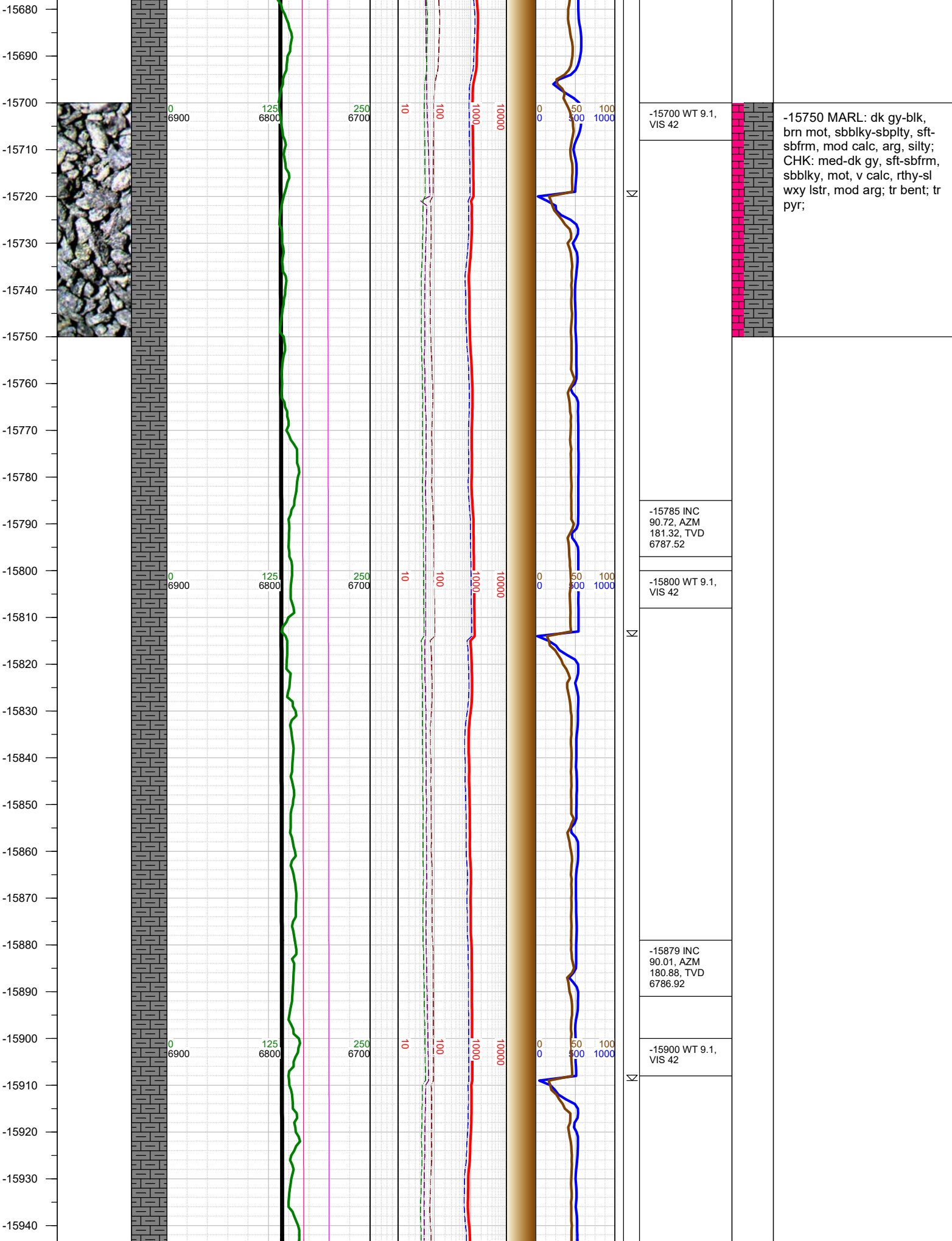
-14500 MARL: dk gy-blk,
brn mot, sbbiky-sbply, sft-
sbfrm, mod calc, arg, silty;
CHK: med-dk gy, sft-sbfrm,
sbbiky, mot, v calc, rthy-sl
wxy lstr, mod arg; tr bent; tr
pyr; tr fos frags;

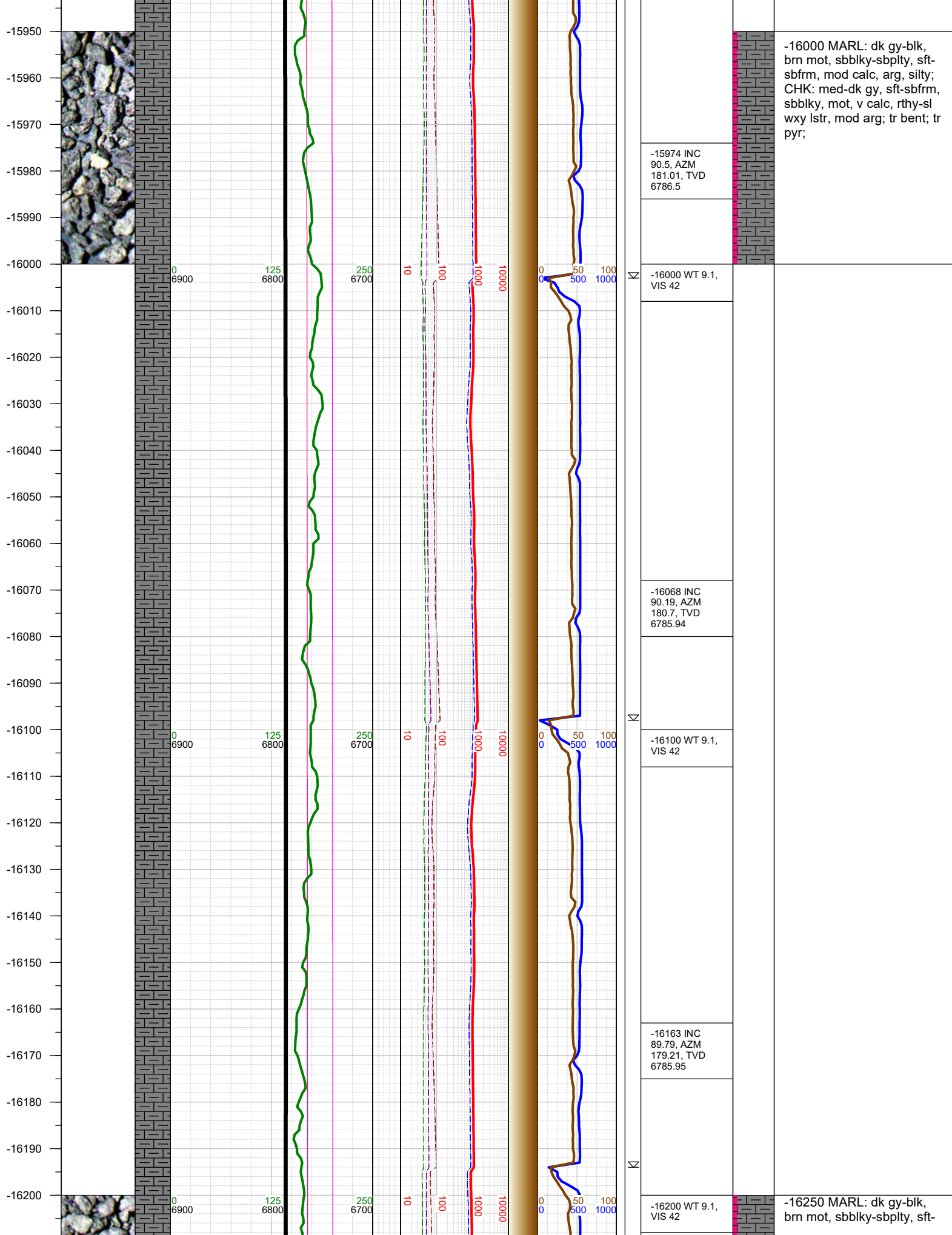


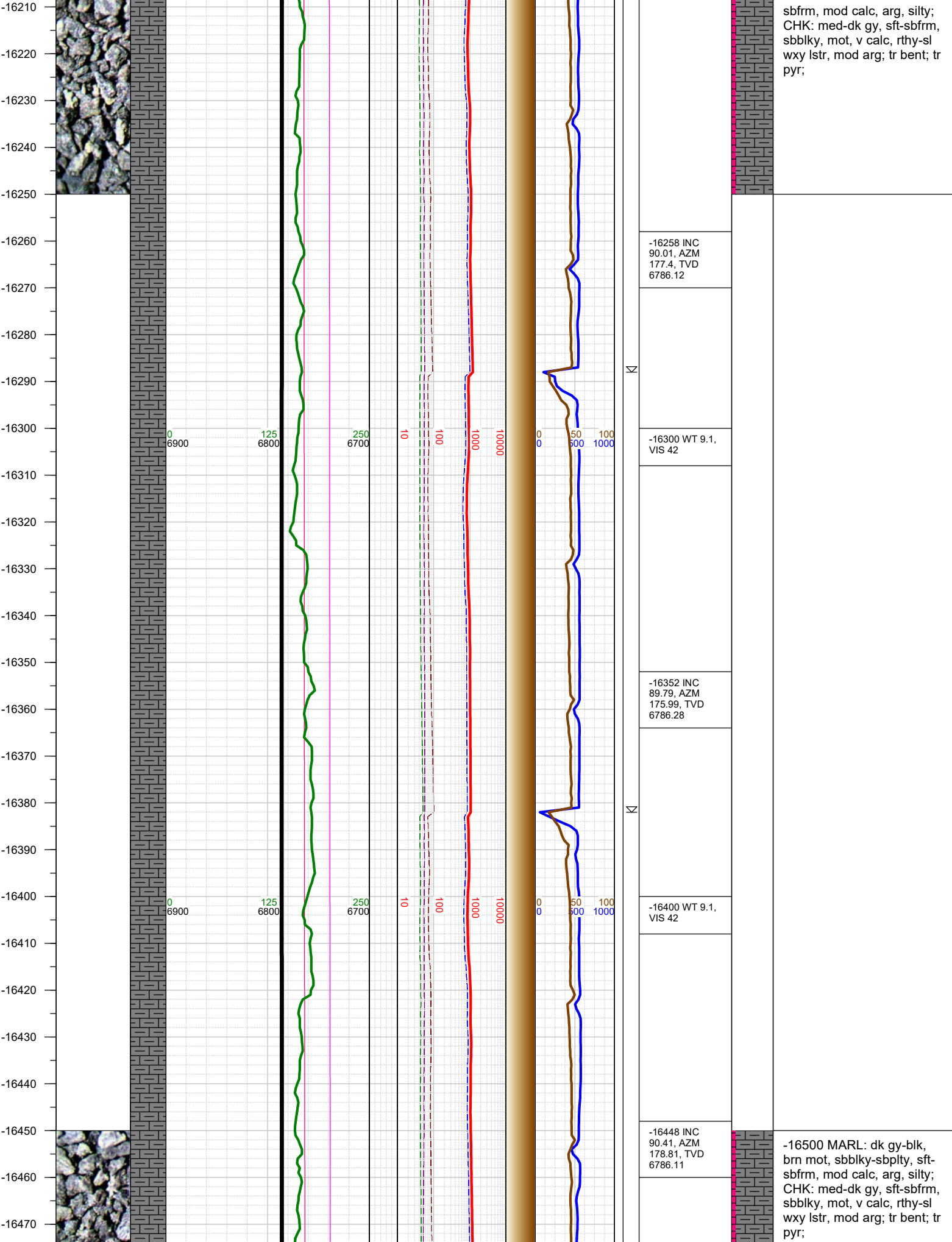












sbfrm, mod calc, arg, silty;
CHK: med-dk gy, sft-sbfrm,
sbbly, mot, v calc, rthy-sl
wxy lstr, mod arg; tr bent; tr
pyr;

-16258 INC
90.01, AZM
177.4, TVD
6786.12

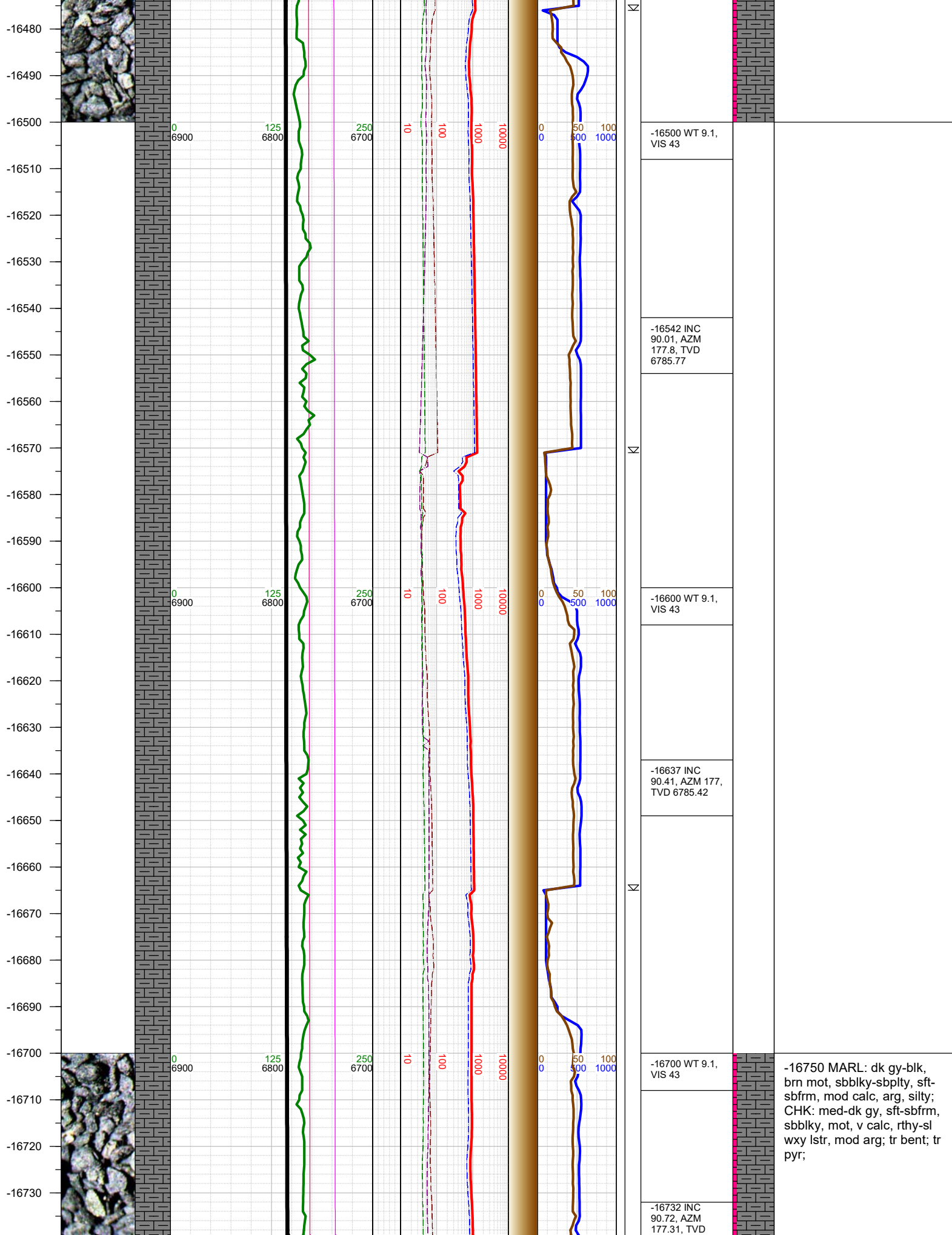
-16300 WT 9.1,
VIS 42

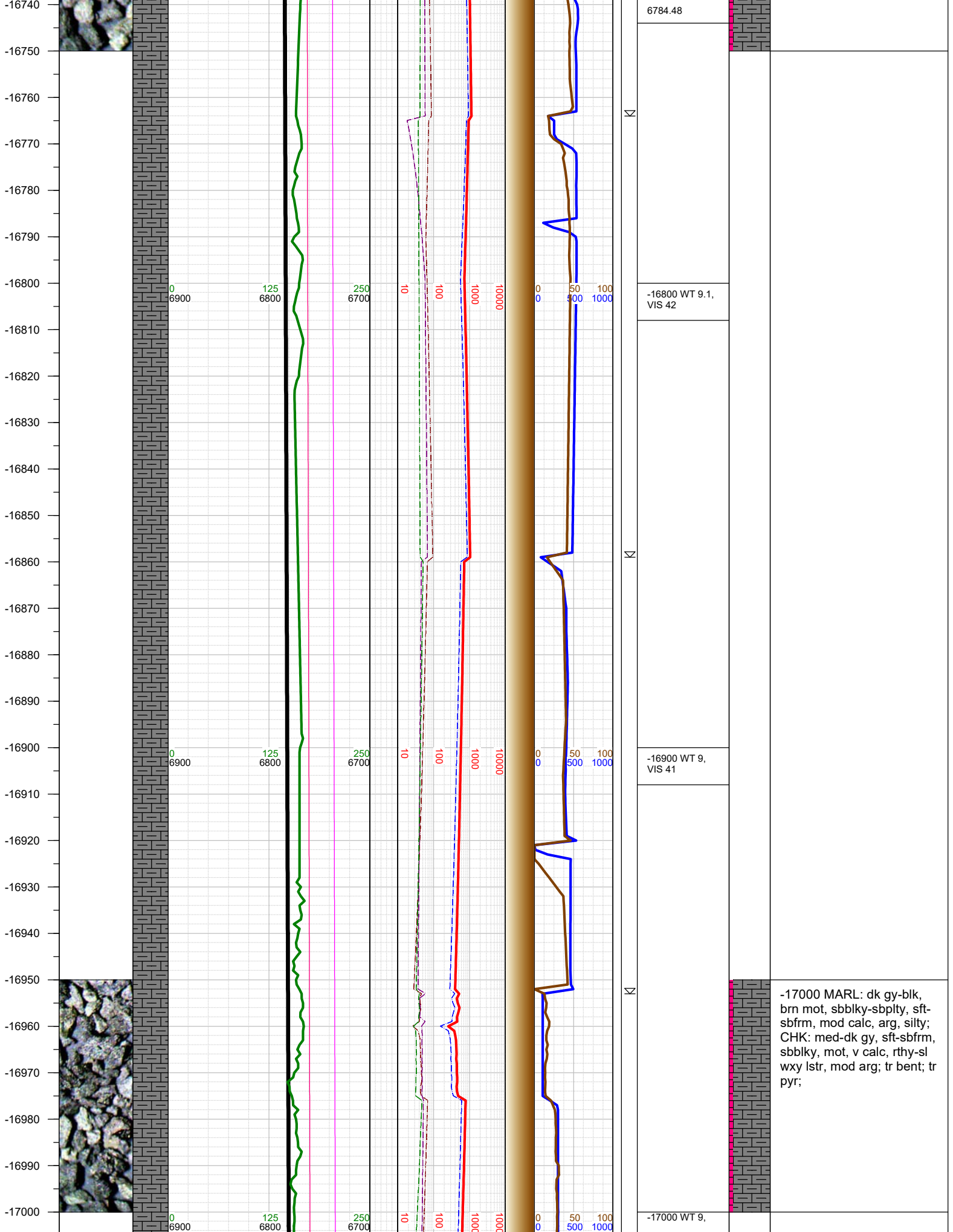
-16352 INC
89.79, AZM
175.99, TVD
6786.28

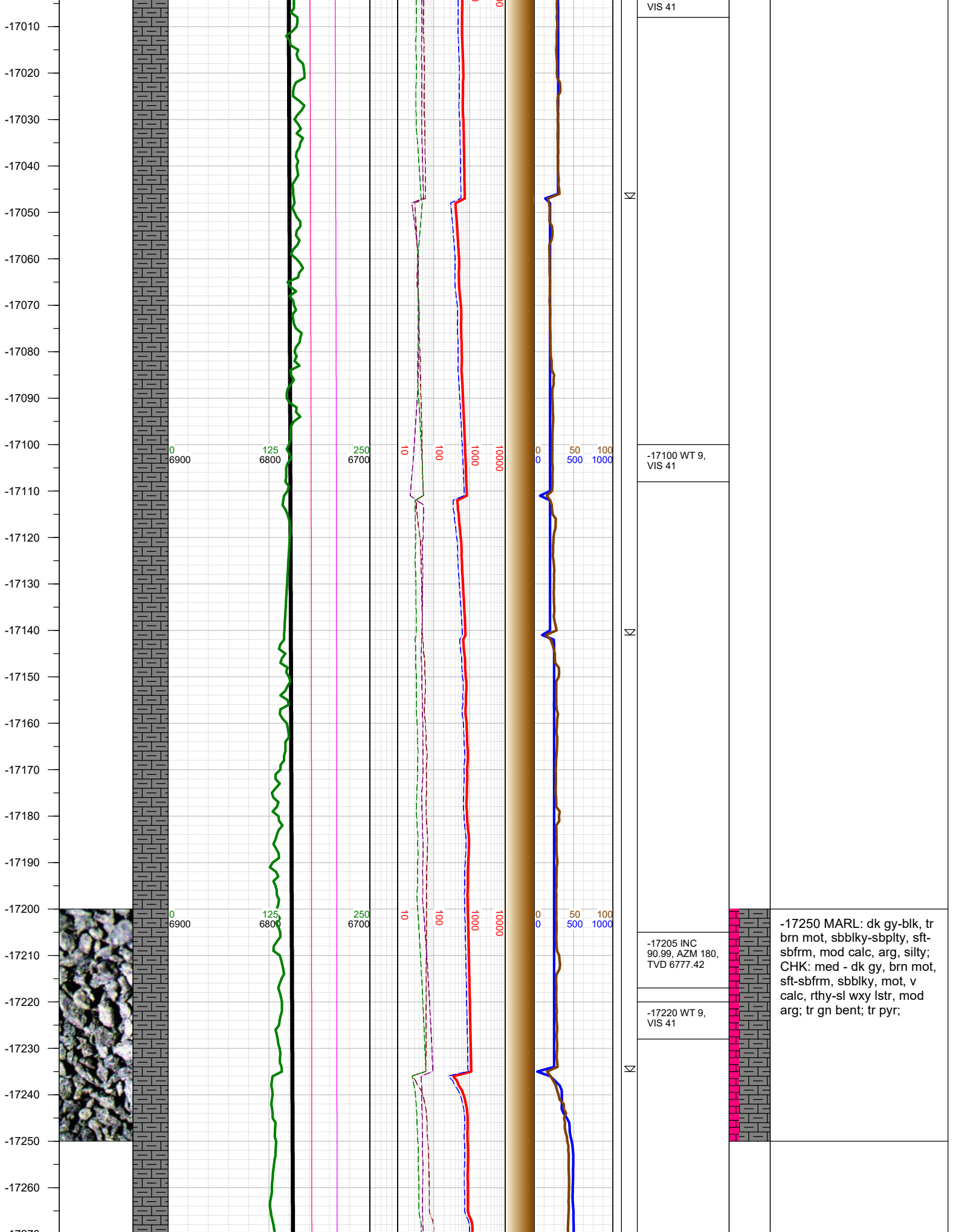
-16400 WT 9.1,
VIS 42

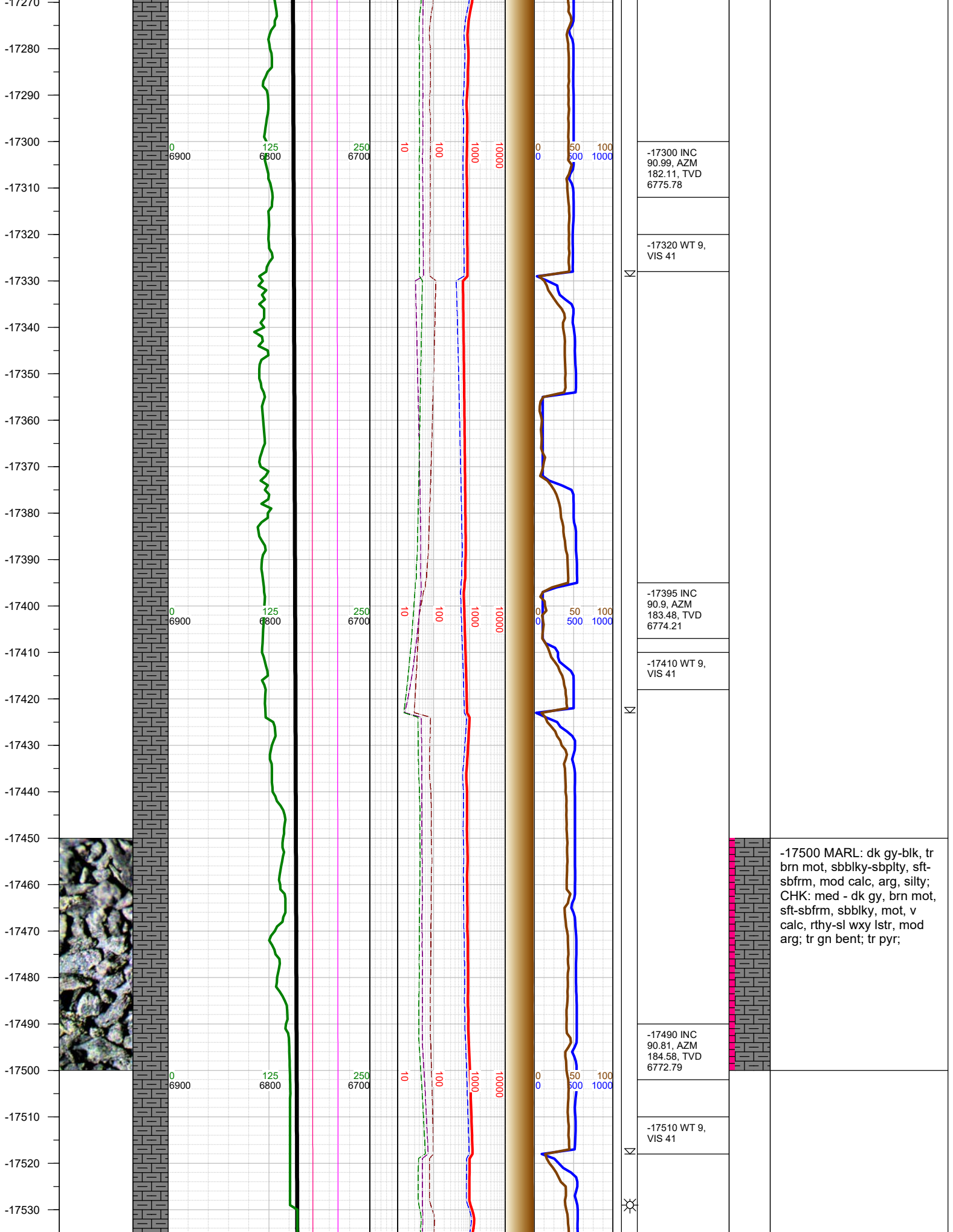
-16448 INC
90.41, AZM
178.81, TVD
6786.11

-16500 MARL: dk gy-blk,
brn mot, sbbly-sbply, sft-
sbfrm, mod calc, arg, silty;
CHK: med-dk gy, sft-sbfrm,
sbbly, mot, v calc, rthy-sl
wxy lstr, mod arg; tr bent; tr
pyr;

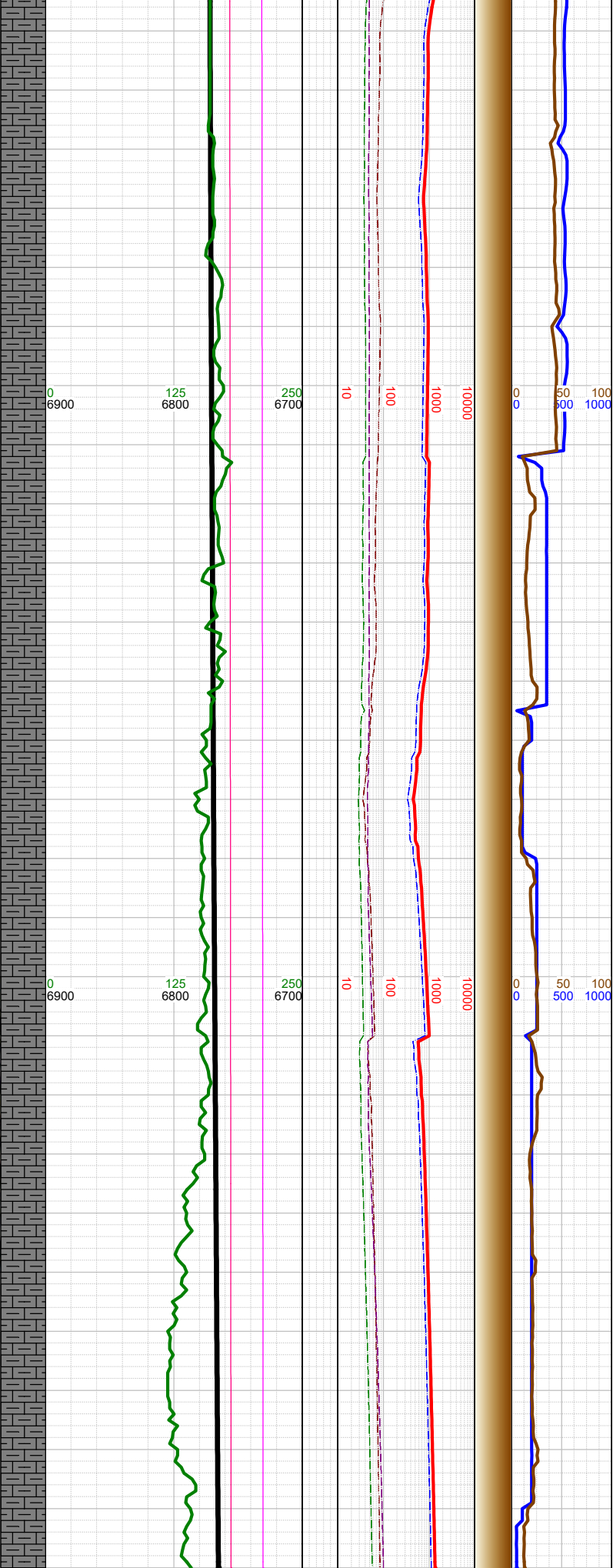




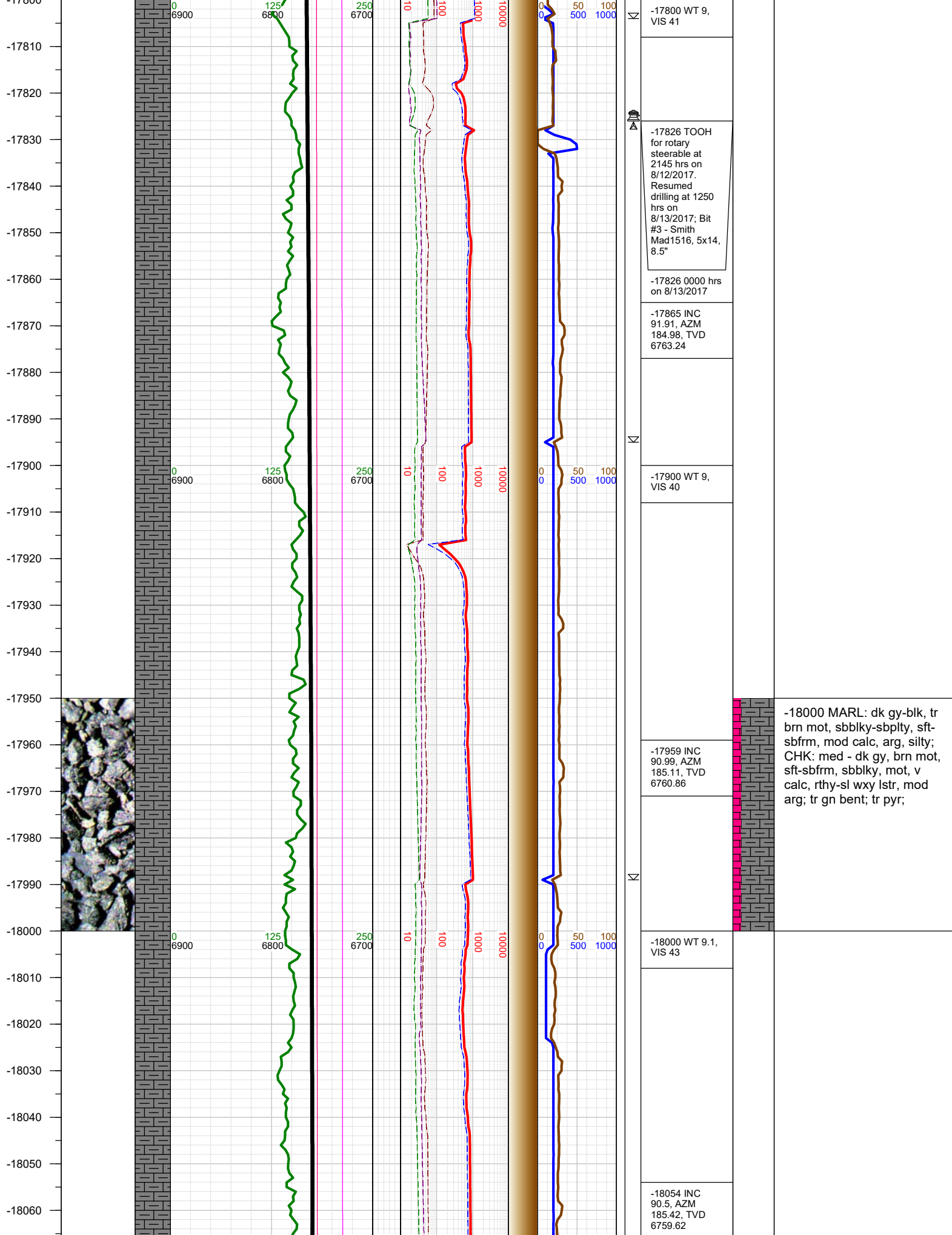




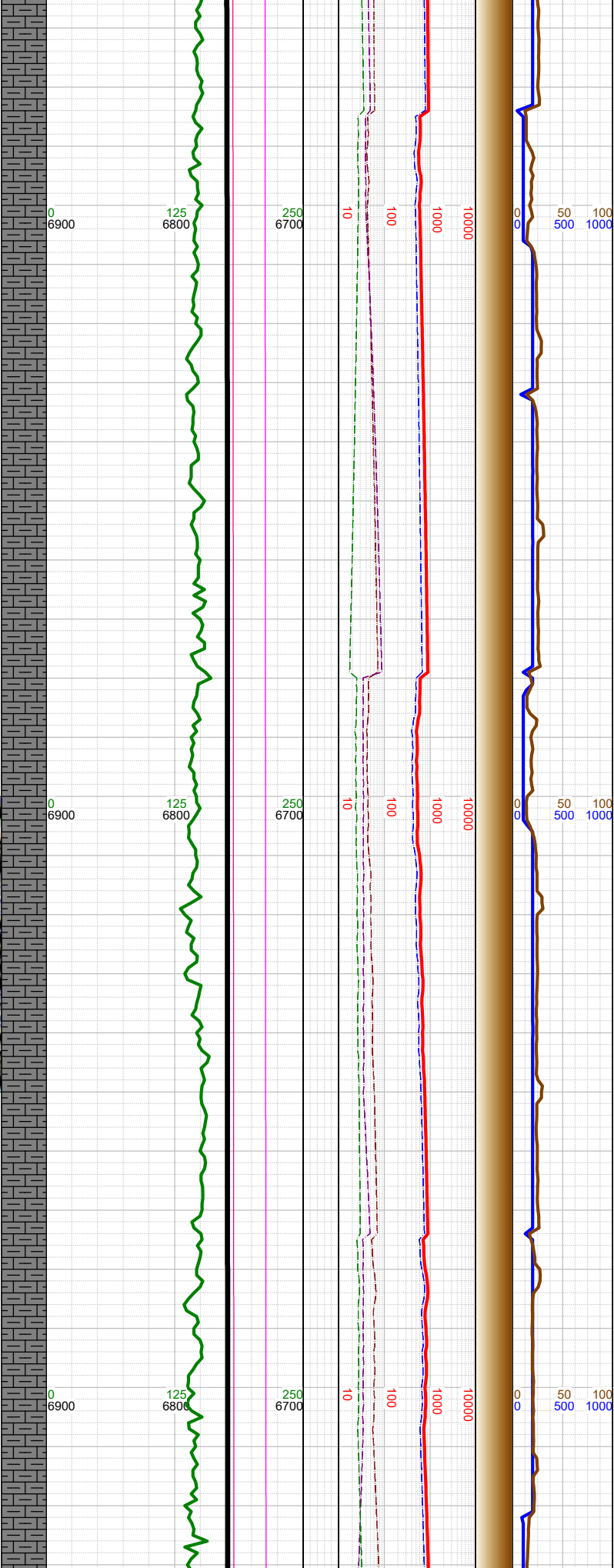
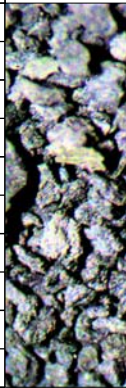
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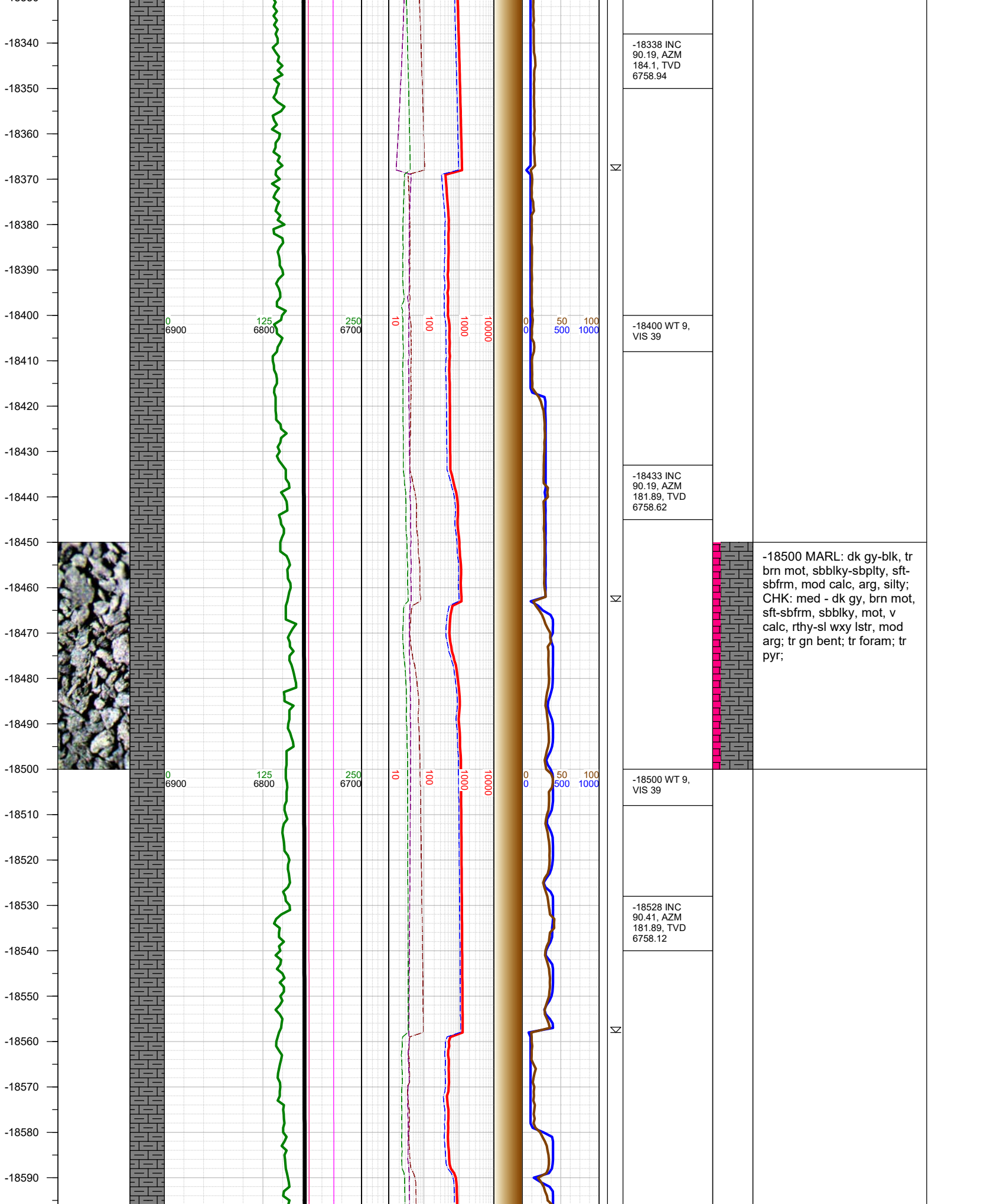
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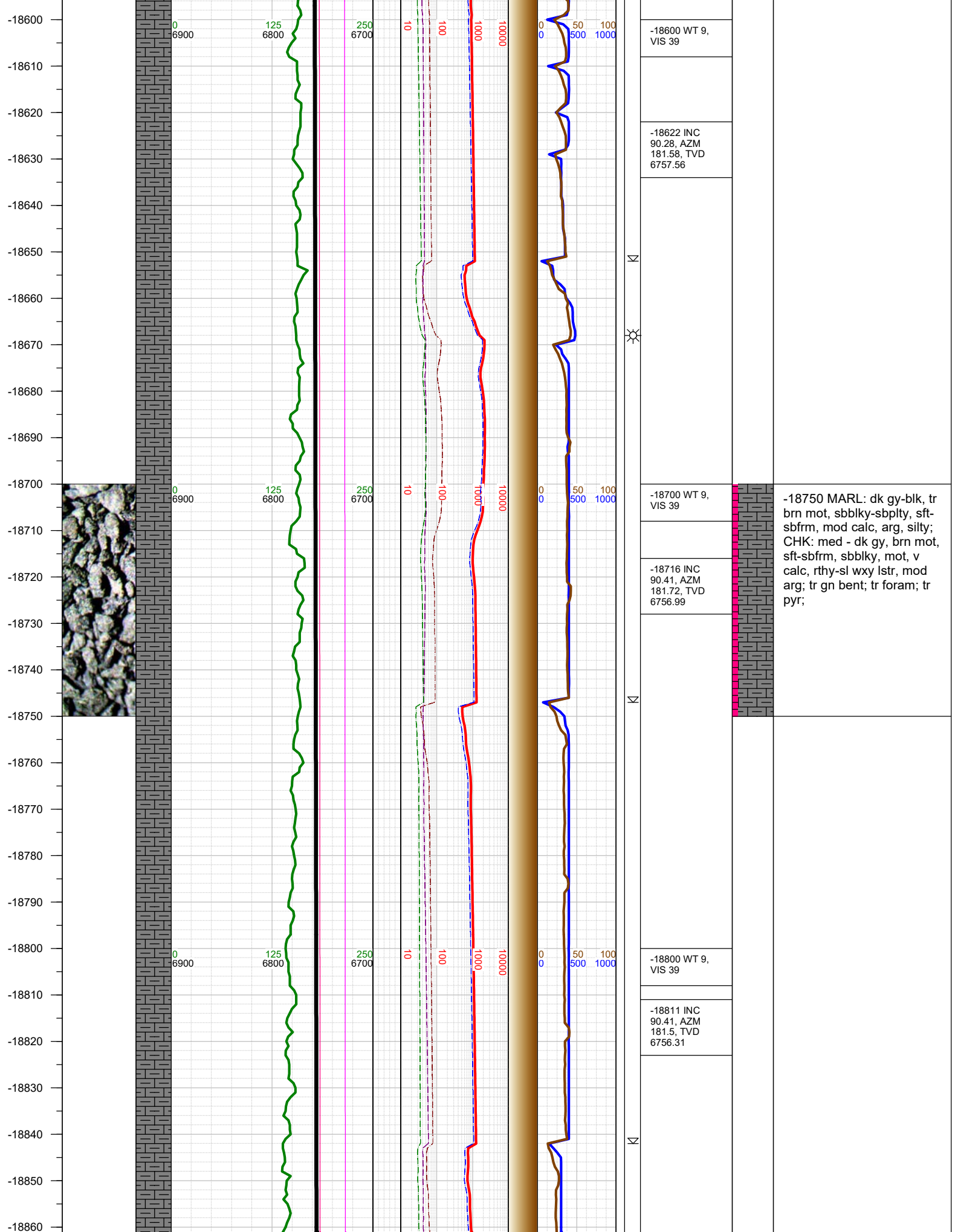


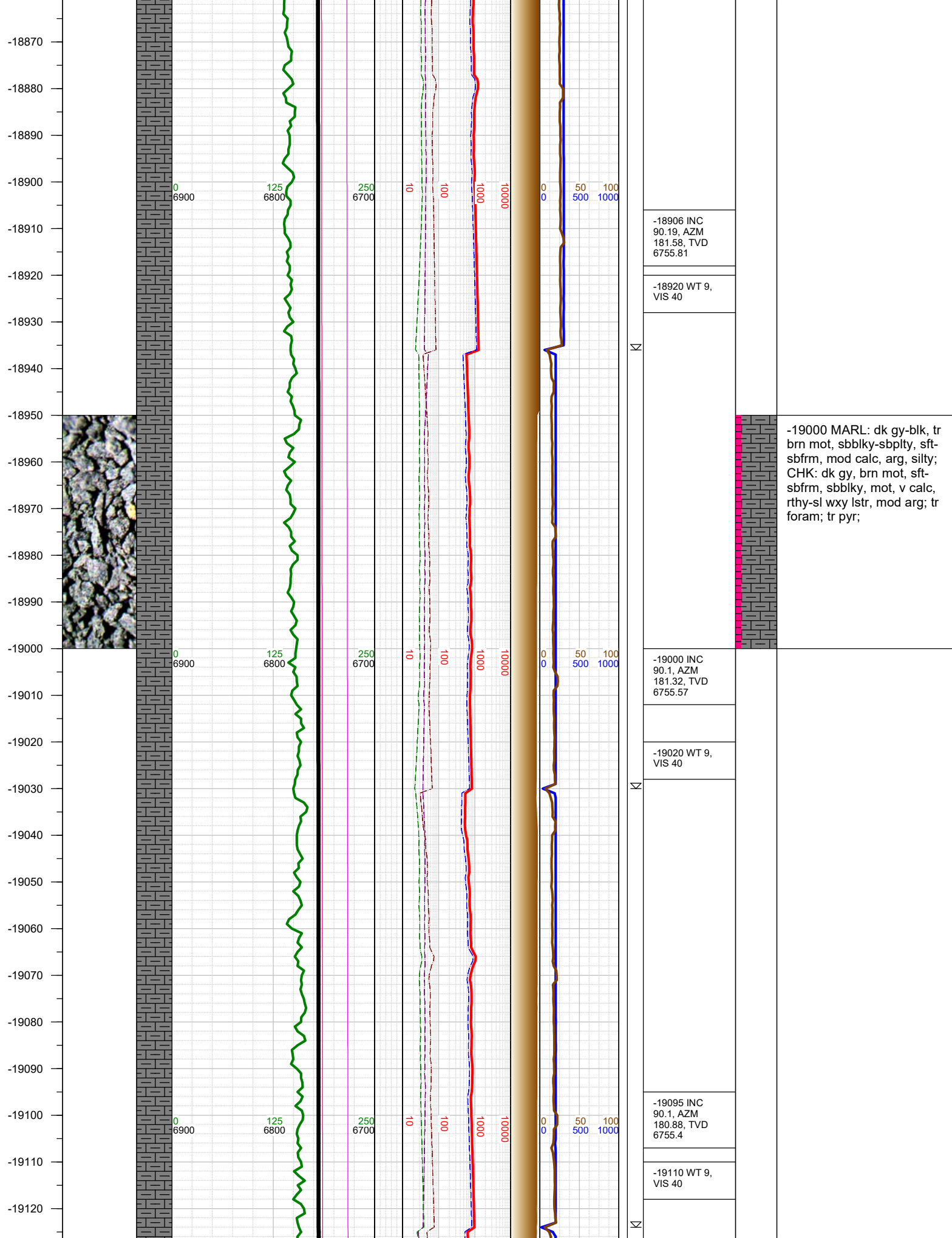
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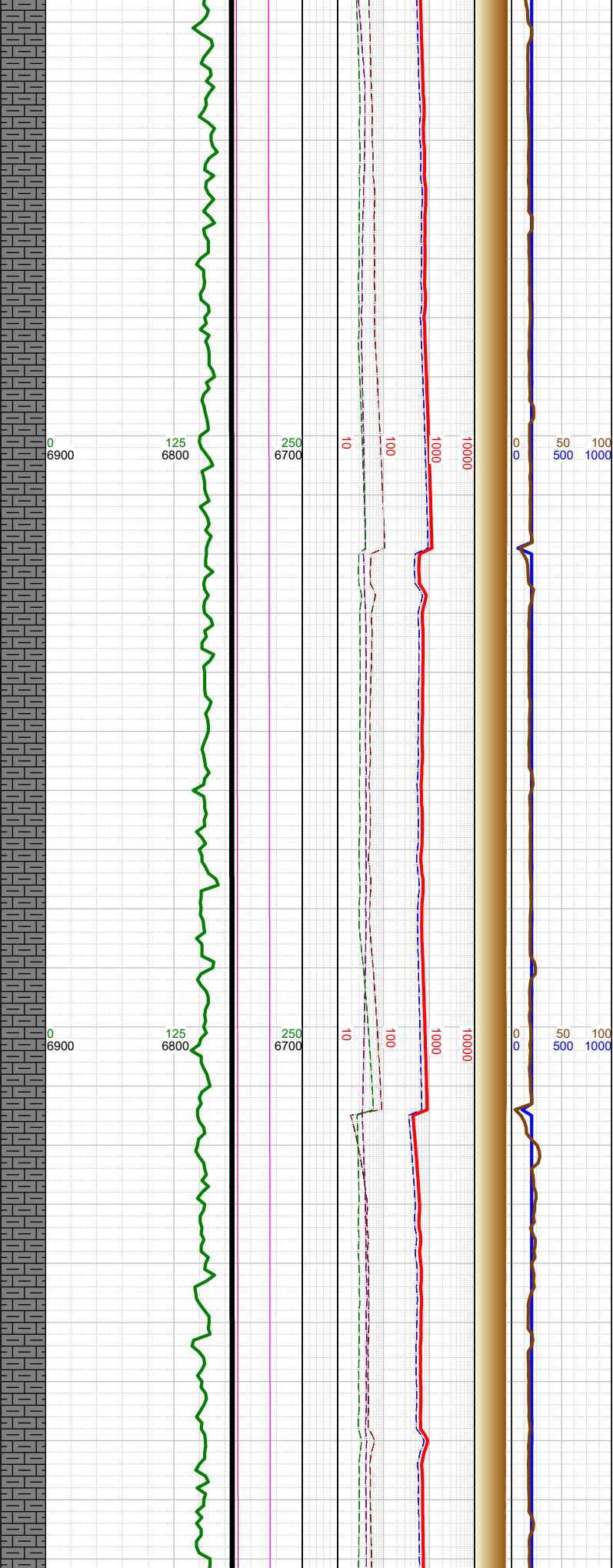
N			-18100 WT 9.1, VIS 43
N			-18148 INC 90.19, AZM 184.71, TVD 6759.06
N			-18200 WT 9.1, VIS 42
			-18250 MARL: dk gy-blk, tr brn mot, sbblky-sbplty, sft- sbfrm, mod calc, arg, silty; CHK: med - dk gy, brn mot, sft-sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr, mod arg; tr gn bent; tr pyr;
N			-18243 INC 89.88, AZM 184.1, TVD 6759
N			-18300 WT 9, VIS 41



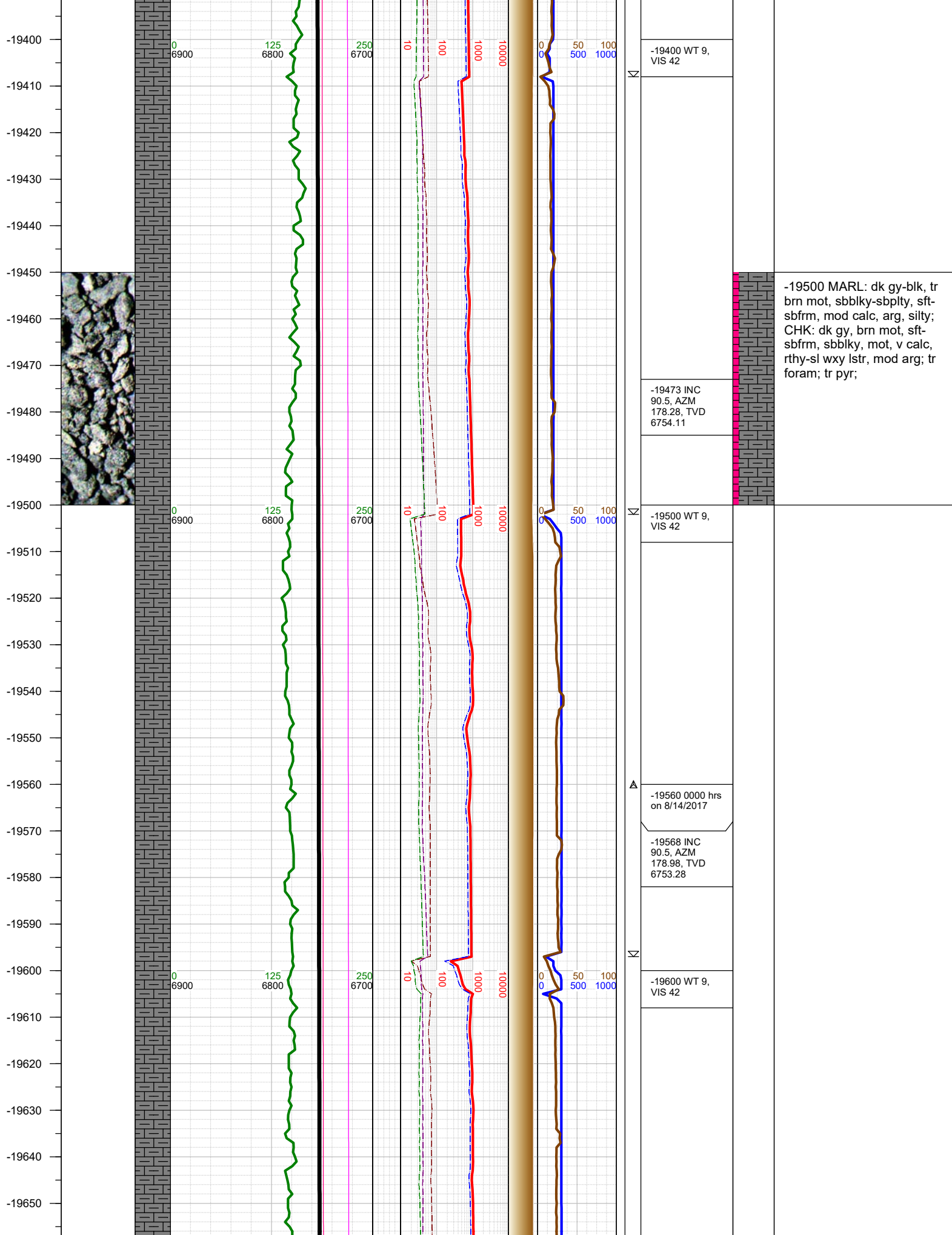




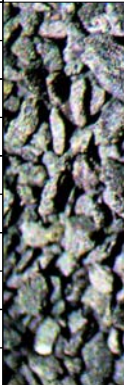
-19130
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-19390



				-19190 INC 90.19, AZM 179.91, TVD 6755.16	
				-19210 WT 9, VIS 40	-19250 MARL: dk gy-blk, tr brn mot, sbblky-sbplty, sft- sbfrm, mod calc, arg, silty; CHK: dk gy, brn mot, sft- sbfrm, sbblky, mot, v calc, rthy-sl wxy lstr, mod arg; tr foram; tr pyr;
				-19284 INC 90.1, AZM 179.38, TVD 6754.92	
				-19300 WT 9, VIS 40	
				-19378 INC 90.19, AZM 179.78, TVD 6754.68	



-19660
-19670
-19680
-19690
-19700
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-19800
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-19900
-19910
-19920



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6900

125
6800

250
6700

10
100

1000
10000

0
0

50
500

100
1000

-19662 INC
90.41, AZM
177.88, TVD
6752.53

-19700 WT 9,
VIS 42

-19750 MARL: dk gy-blk, tr
brn mot, sbblky-sbplty, sft-
sbfrm, mod calc, arg, silty;
CHK: dk gy, brn mot, sft-
sbfrm, sbblky, mot, v calc,
rthy-sl wxy lstr, mod arg; tr
pyr;

-19757 INC
90.19, AZM
177.8, TVD
6752.03

-19800 WT 9,
VIS 42



-19852 INC
90.41, AZM
177.49, TVD
6751.54

-19900 WT 9,
VIS 41

