

OPERATOR: **Extraction Oil & Gas**
WELL NAME: **Coyote Trails 33W-15-5N**
FIELD NAME: DJ Basin - Wattenberg
DRILLING RIG: Ensign 147
API #: 05-123-48247

LAT/LONG: 40.017978, -105.007602
SURFACE HOLE: SWSE S28-T1N-R68W, 1150' FSL, 2391' FEL
BOTTOM HOLE: S32-T1N-R68W, 1323' FNL, 460' FWL

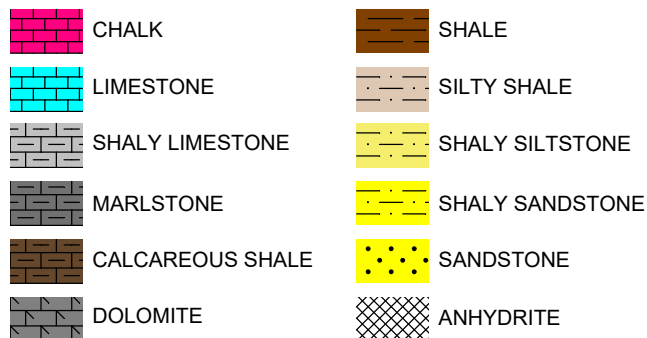


Earth Science Agency, LLC

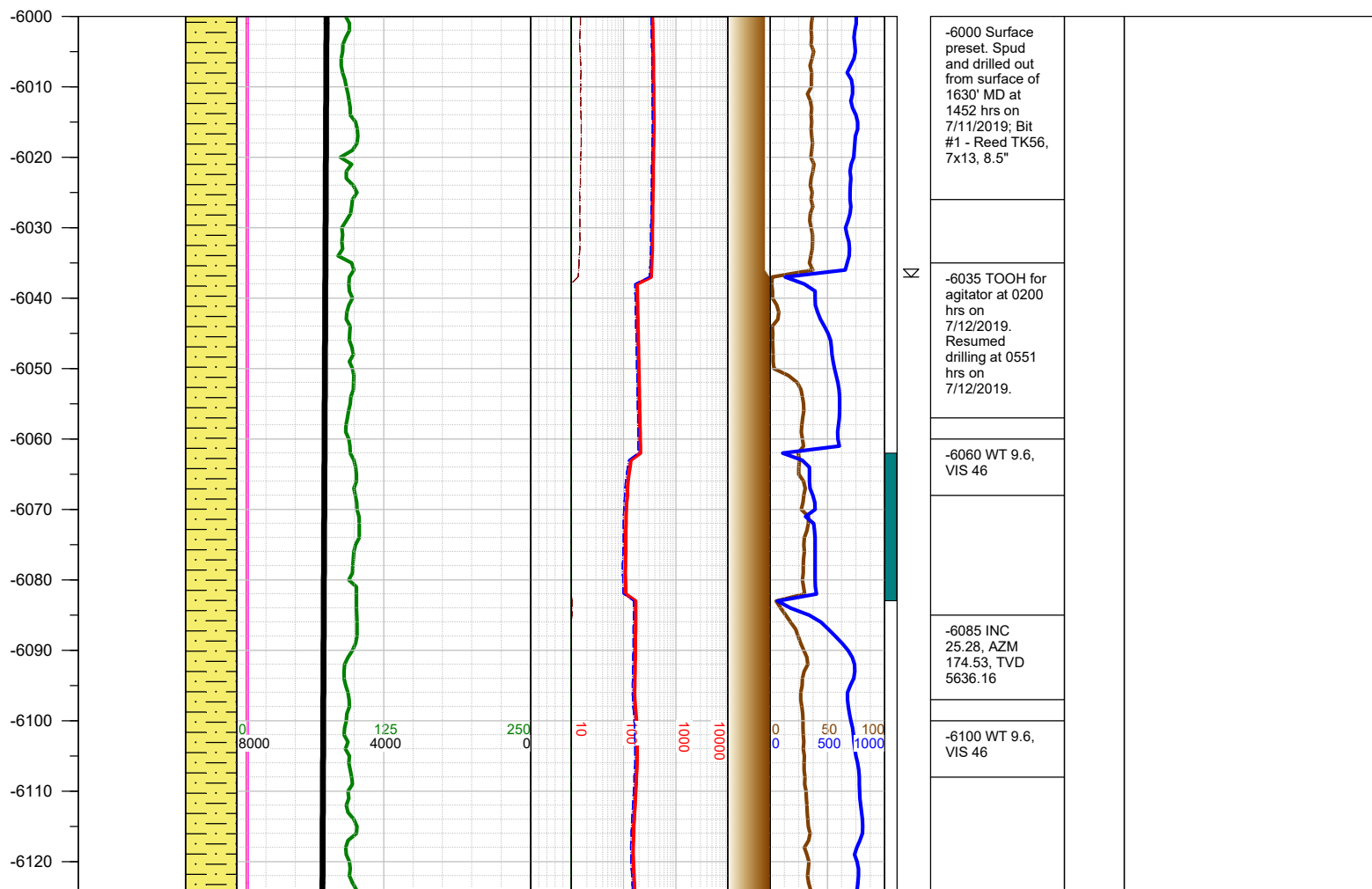
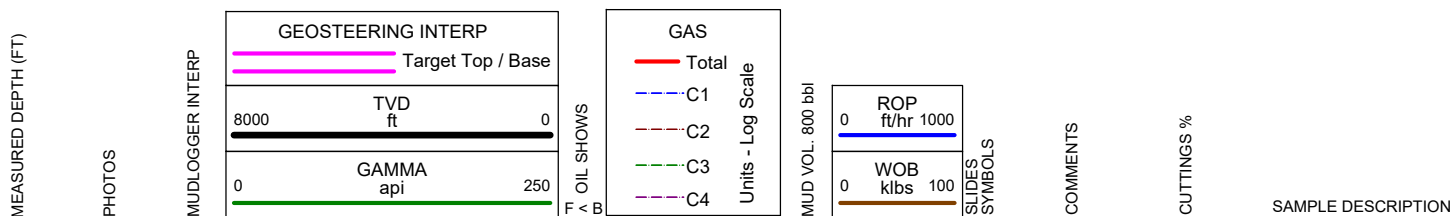
COUNTY: Weld
STATE: Colorado
GROUND ELEVATION: 5274'
KELLY BUSHING: 5302'
DRILLING FLUID: OBM
TVD VS. MD: 7795' / 15932'
SPUD DATE: July 11, 2019
TD DATE: July 13, 2019

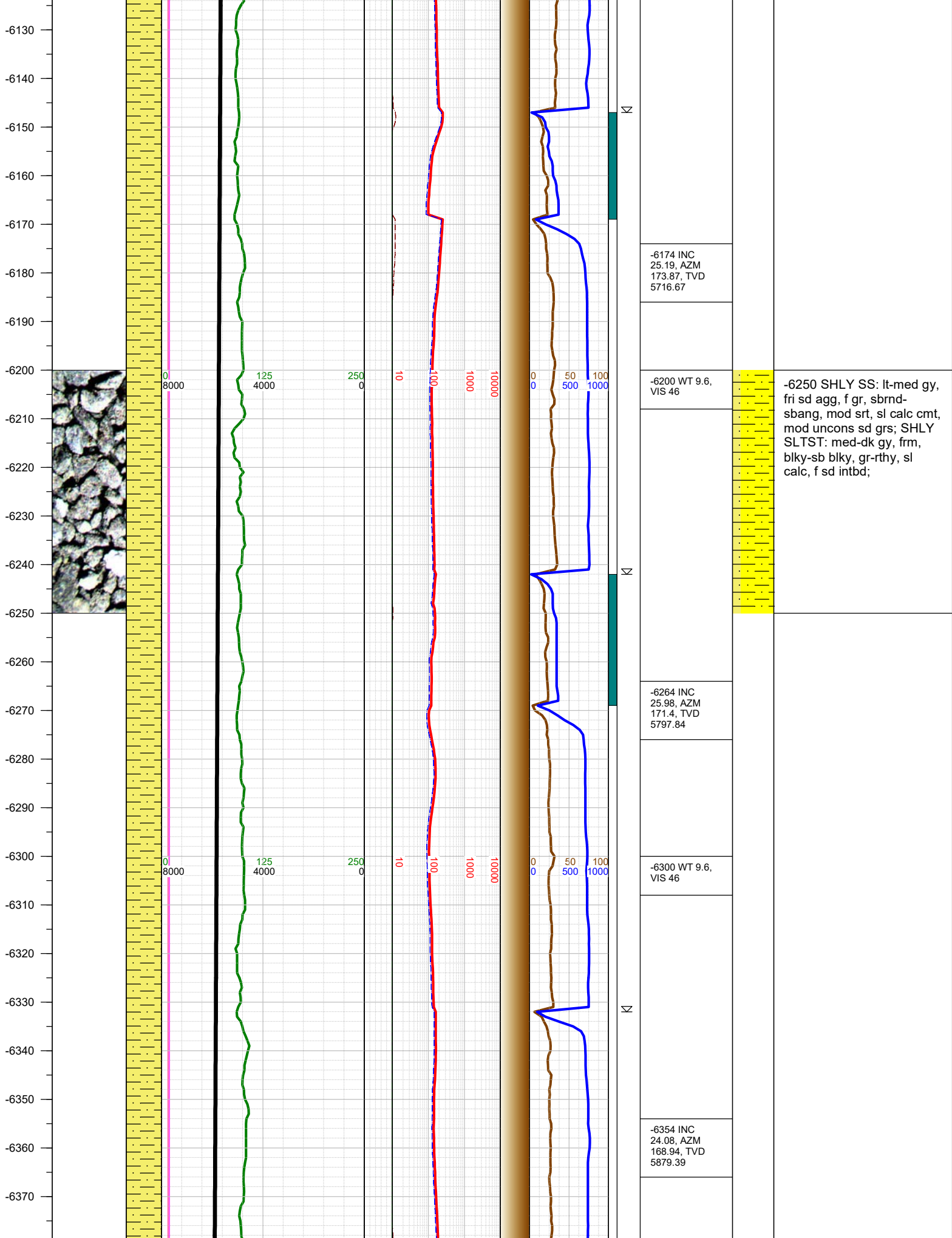
DEPTHS LOGGED: 6000' - 15932'
DATES LOGGED: July 11, 2019 - July 13, 2019
GEOLOGISTS: Ross Apodaca, Nick Damon
SCALE: 5" = 100'

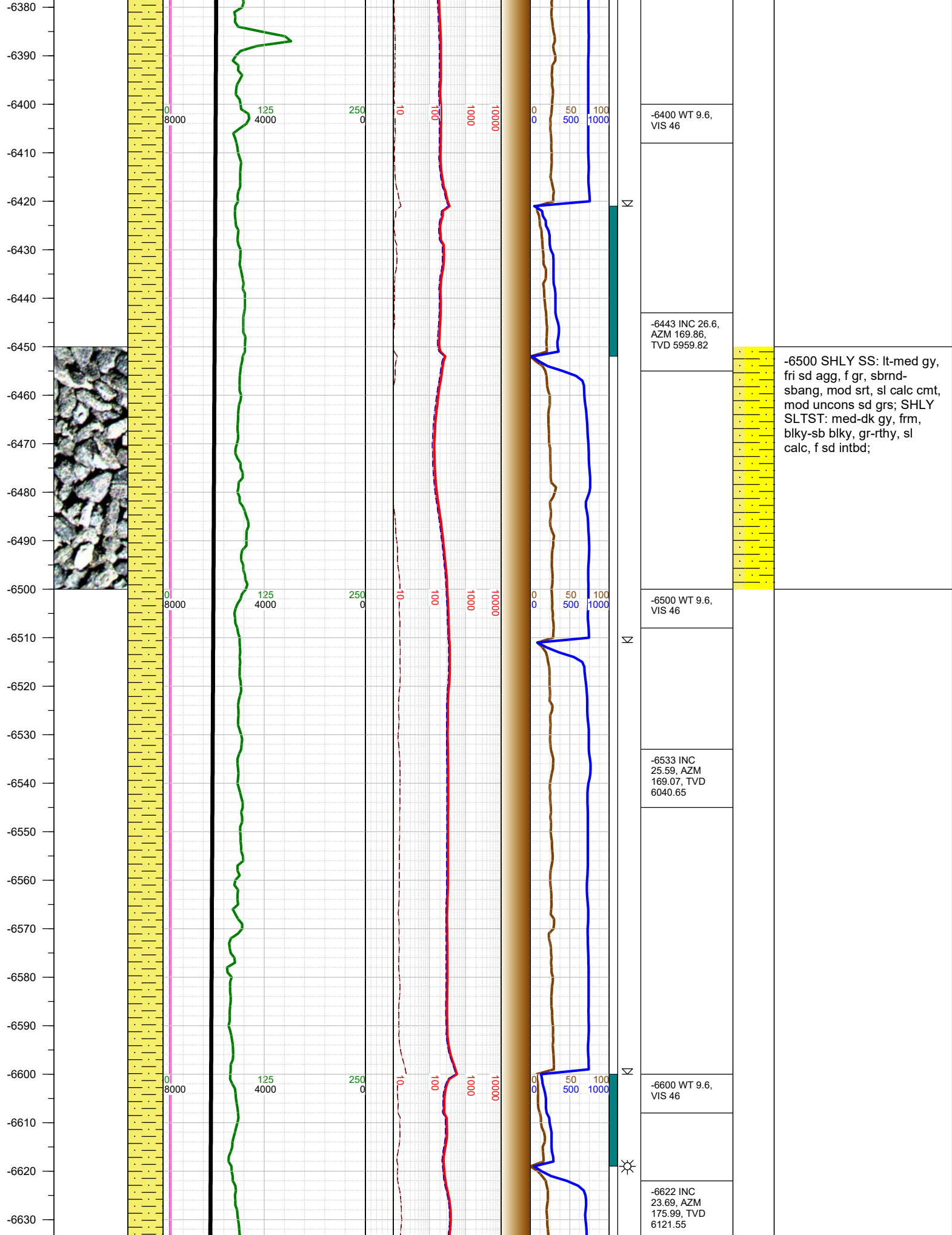
LEGEND

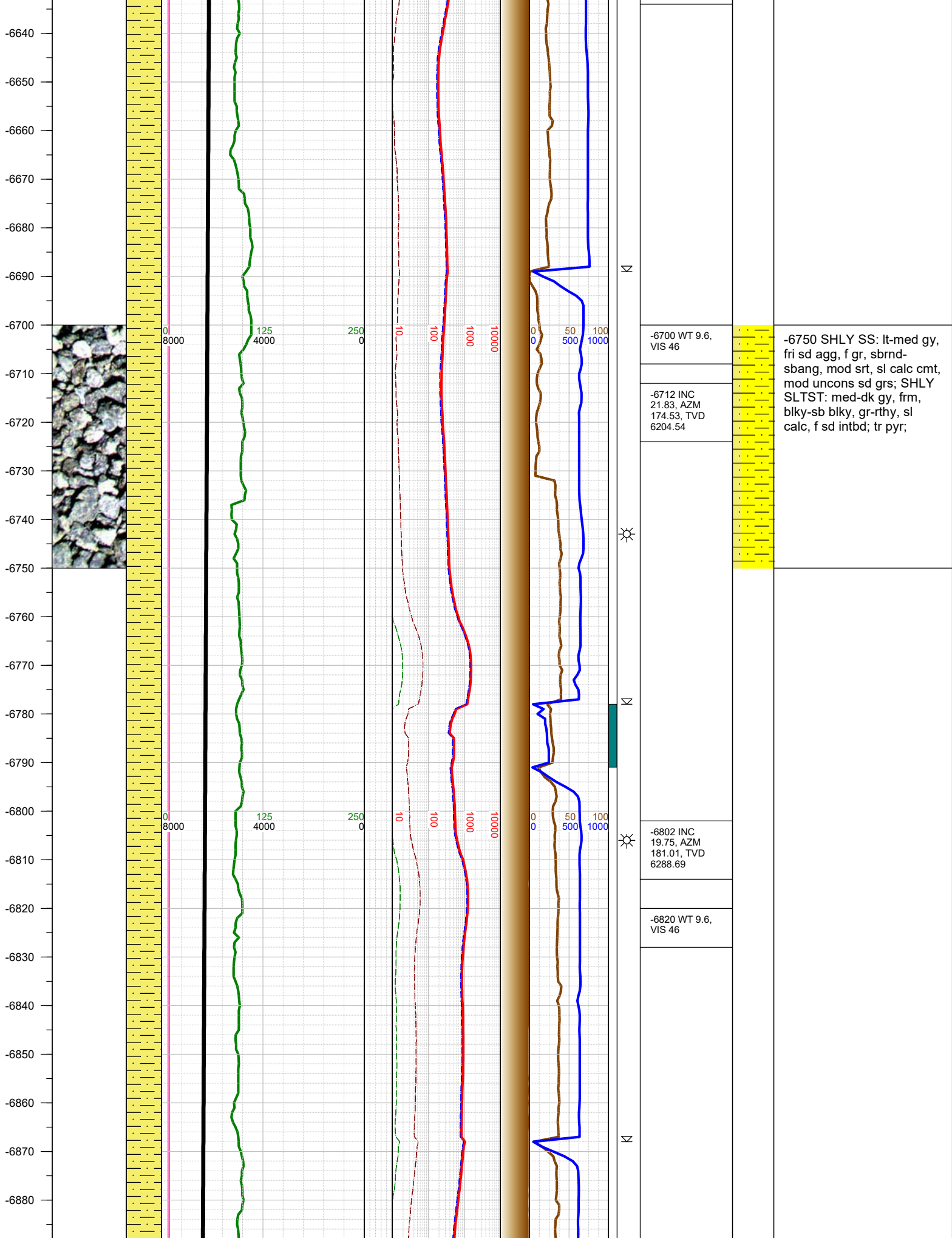


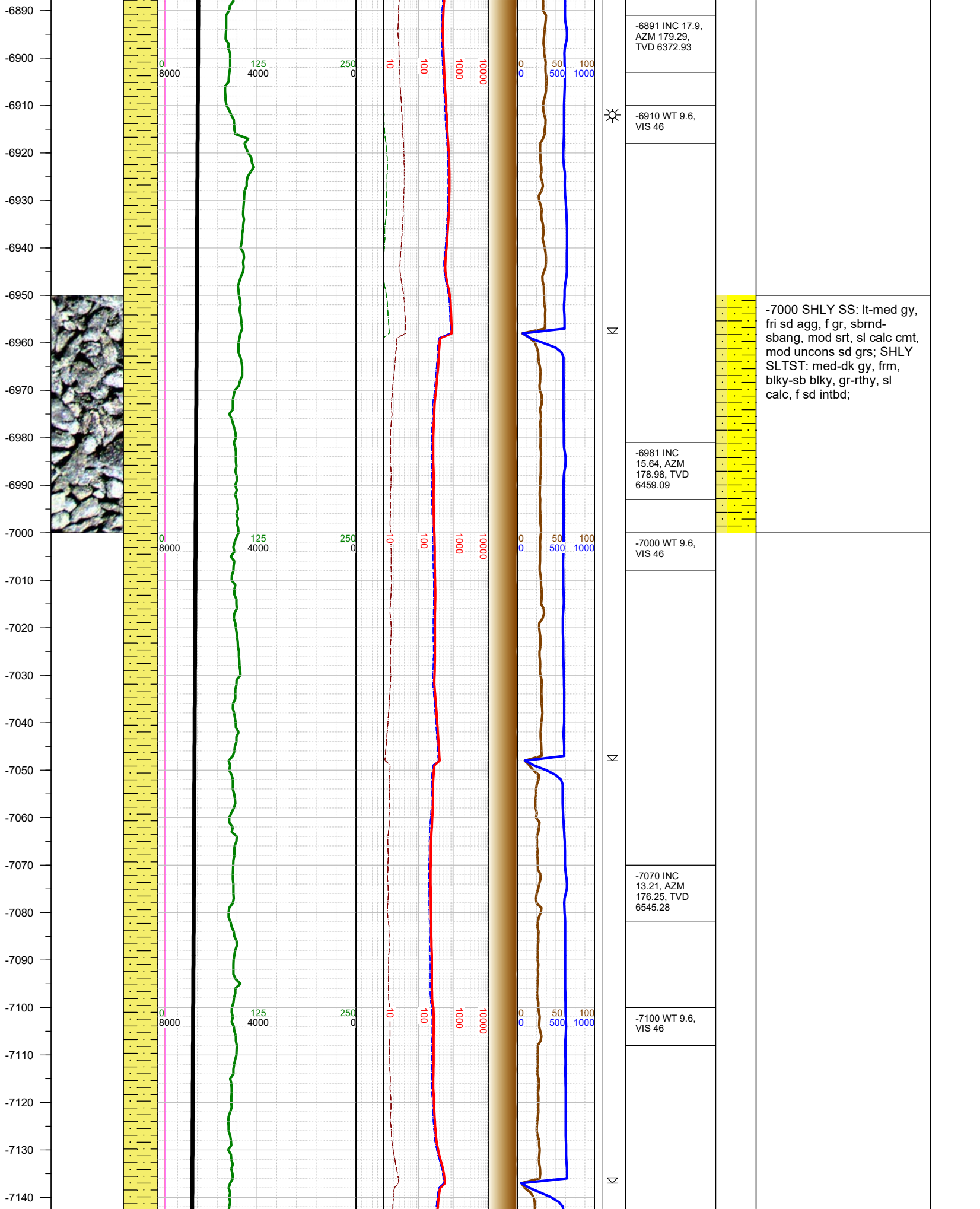
FORMATION \approx CONNECTION Δ MIDNIGHT NEW BIT GAS SHOW FAULT

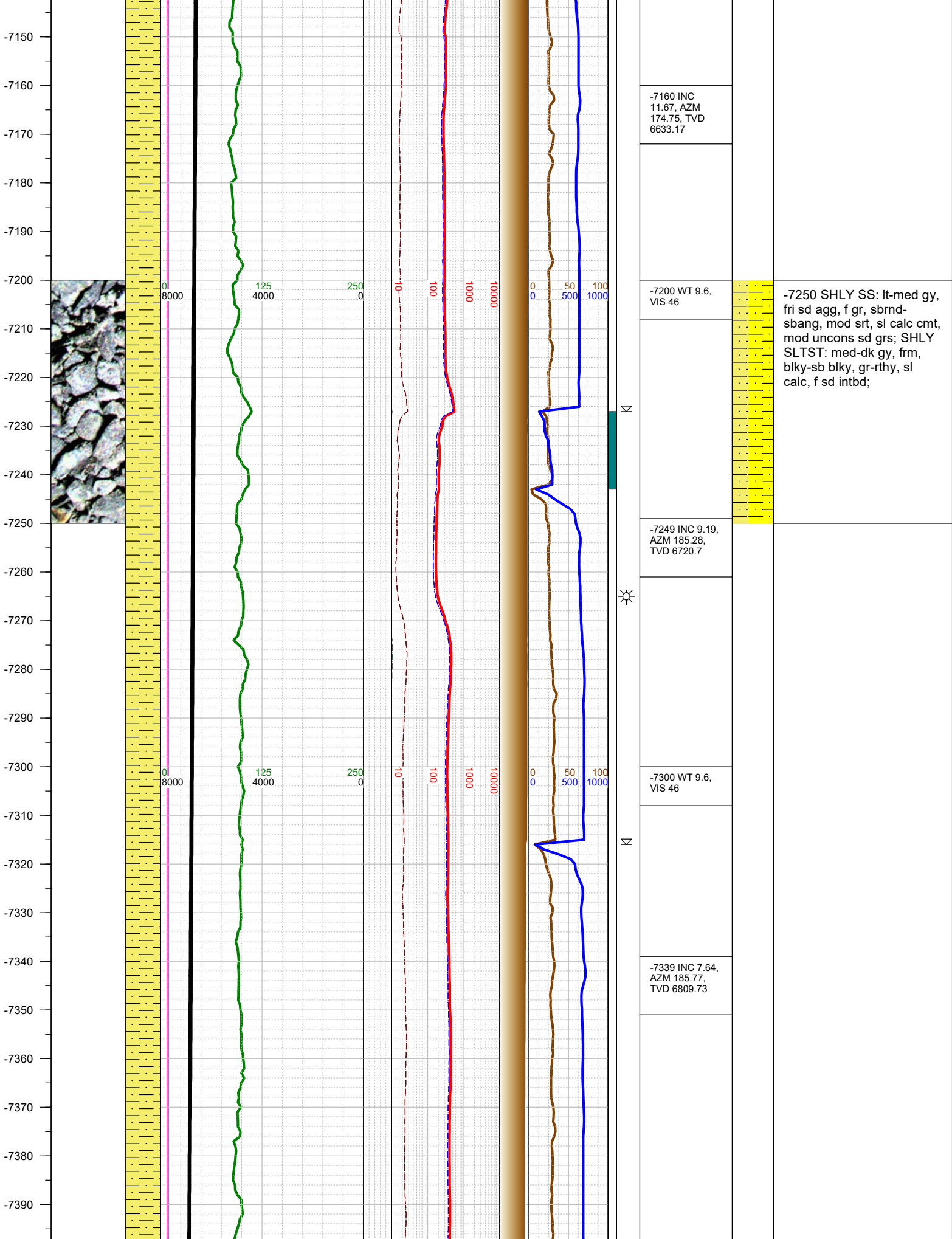


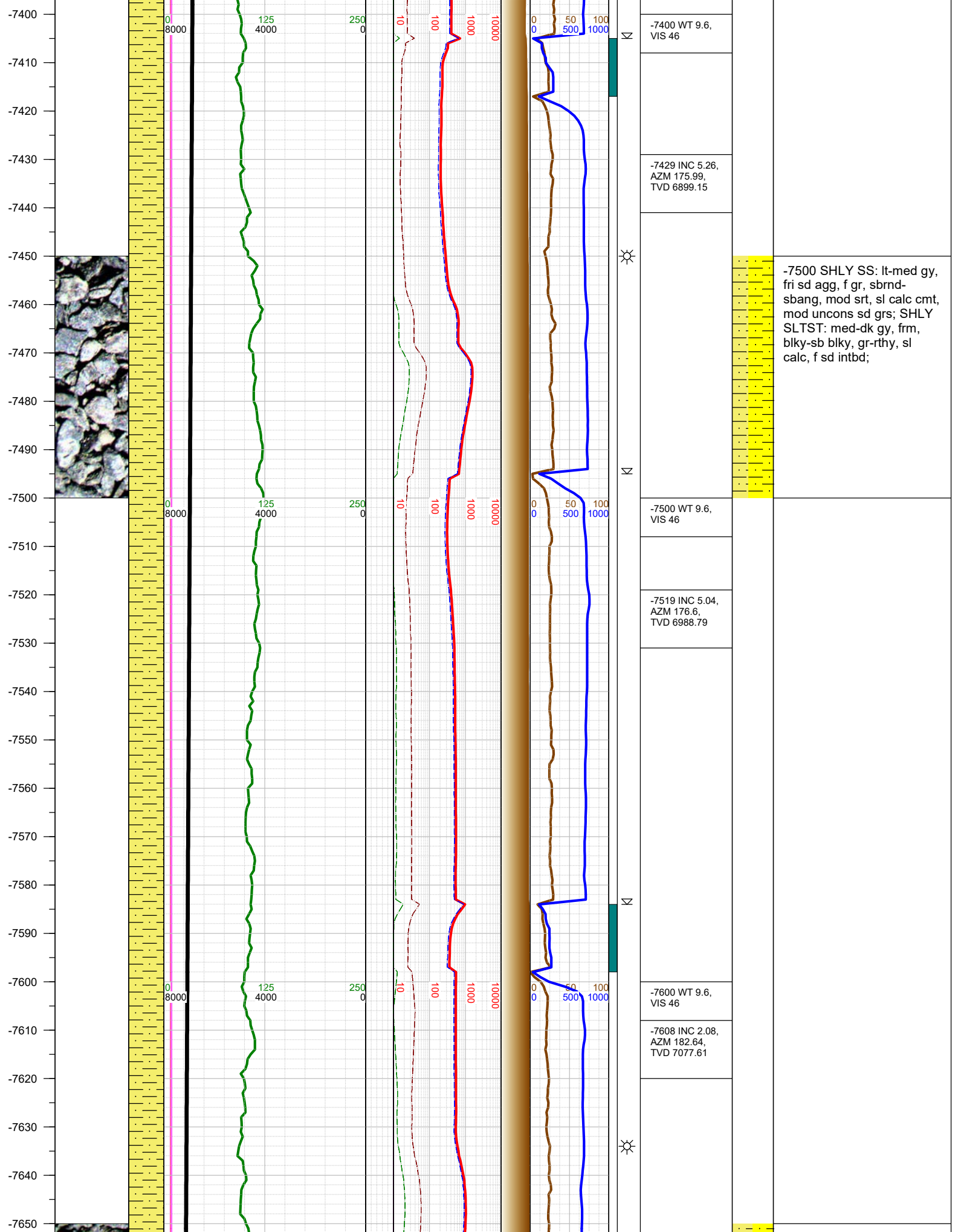


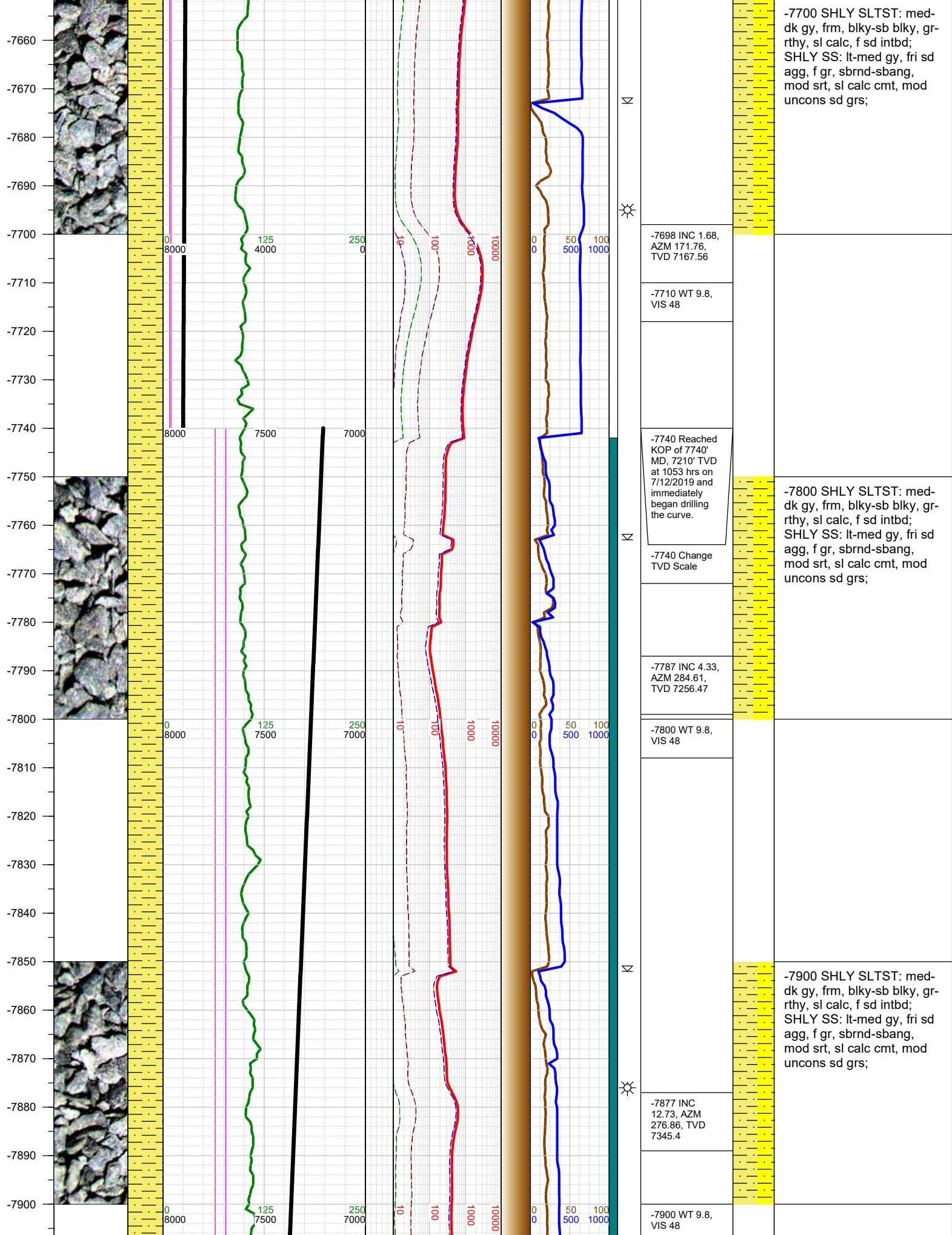












-7700 SHLY SLTST: med-dk gy, frm, blk-y-sb blk-y, gr-rthy, sl calc, f sd intbd; SHLY SS: lt-med gy, fri sd agg, f gr, sbrnd-sbang, mod srt, sl calc cmt, mod uncons sd grs;

-7800 SHLY SLTST: med-dk gy, frm, blk-y-sb blk-y, gr-rthy, sl calc, f sd intbd; SHLY SS: lt-med gy, fri sd agg, f gr, sbrnd-sbang, mod srt, sl calc cmt, mod uncons sd grs;

-7900 SHLY SLTST: med-dk gy, frm, blk-y-sb blk-y, gr-rthy, sl calc, f sd intbd; SHLY SS: lt-med gy, fri sd agg, f gr, sbrnd-sbang, mod srt, sl calc cmt, mod uncons sd grs;

-7698 INC 1.68, AZM 171.76, TVD 7167.56

-7710 WT 9.8, VIS 48

-7740 Reached KOP of 7740' MD, 7210' TVD at 1053 hrs on 7/12/2019 and immediately began drilling the curve.

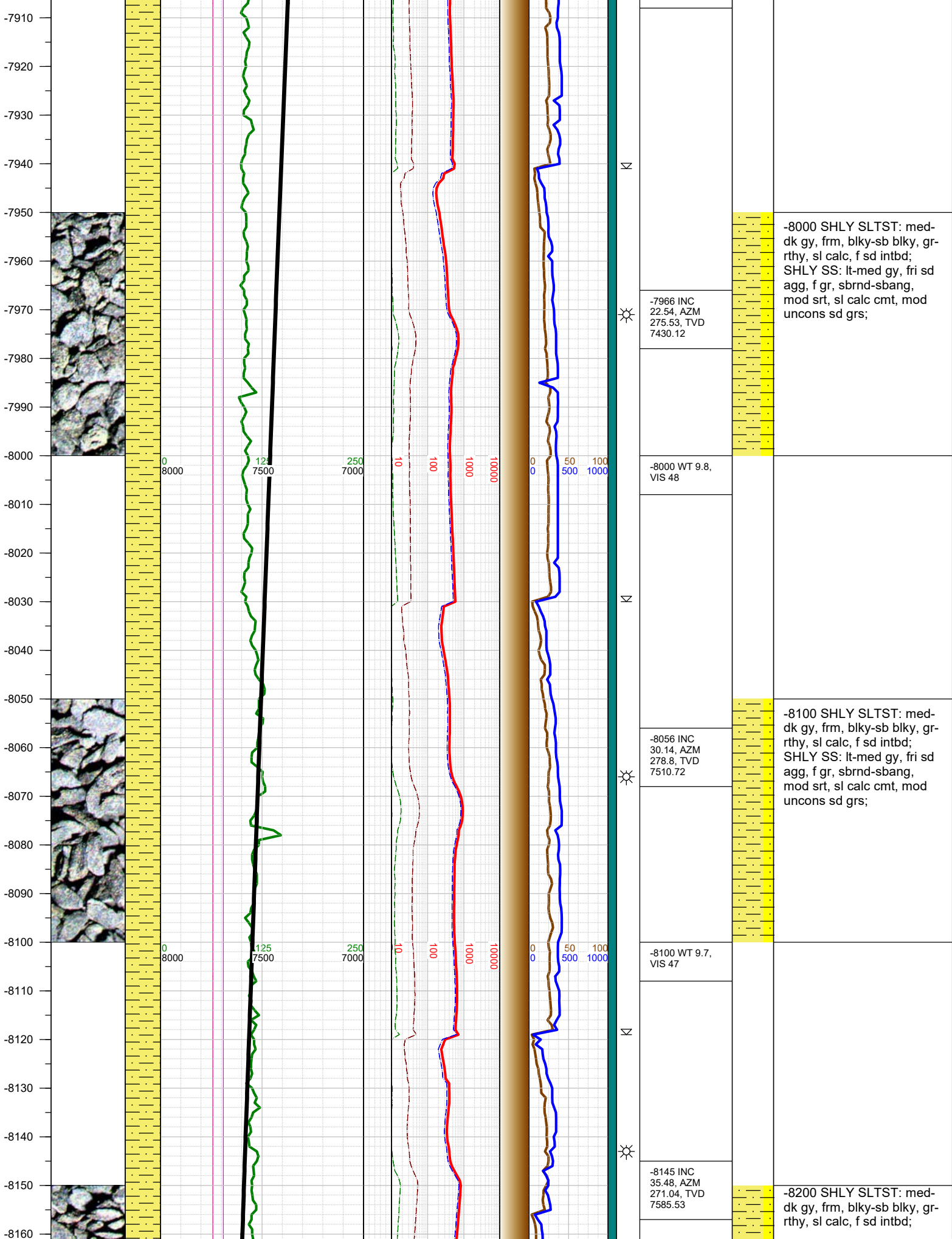
-7740 Change TVD Scale

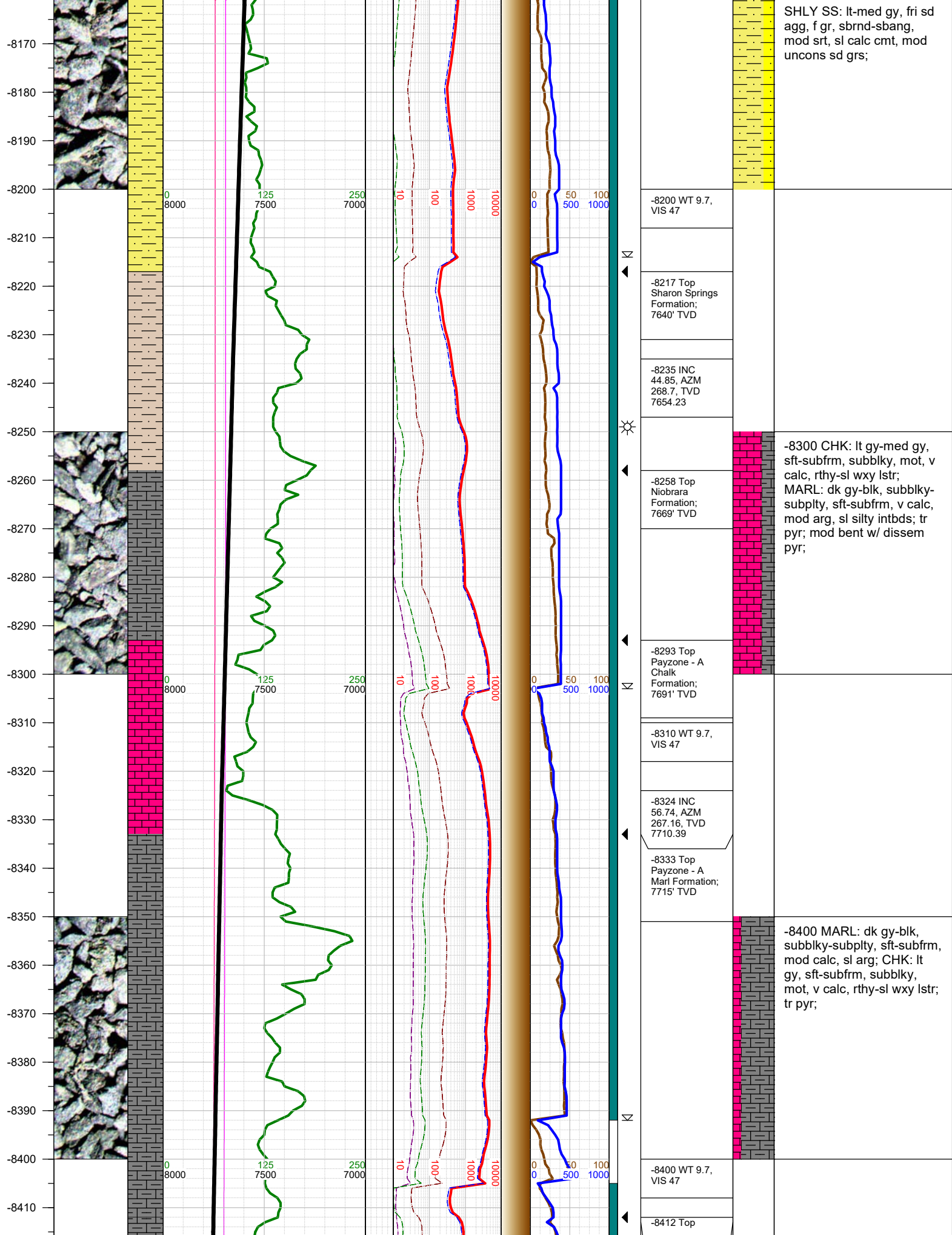
-7787 INC 4.33, AZM 284.61, TVD 7256.47

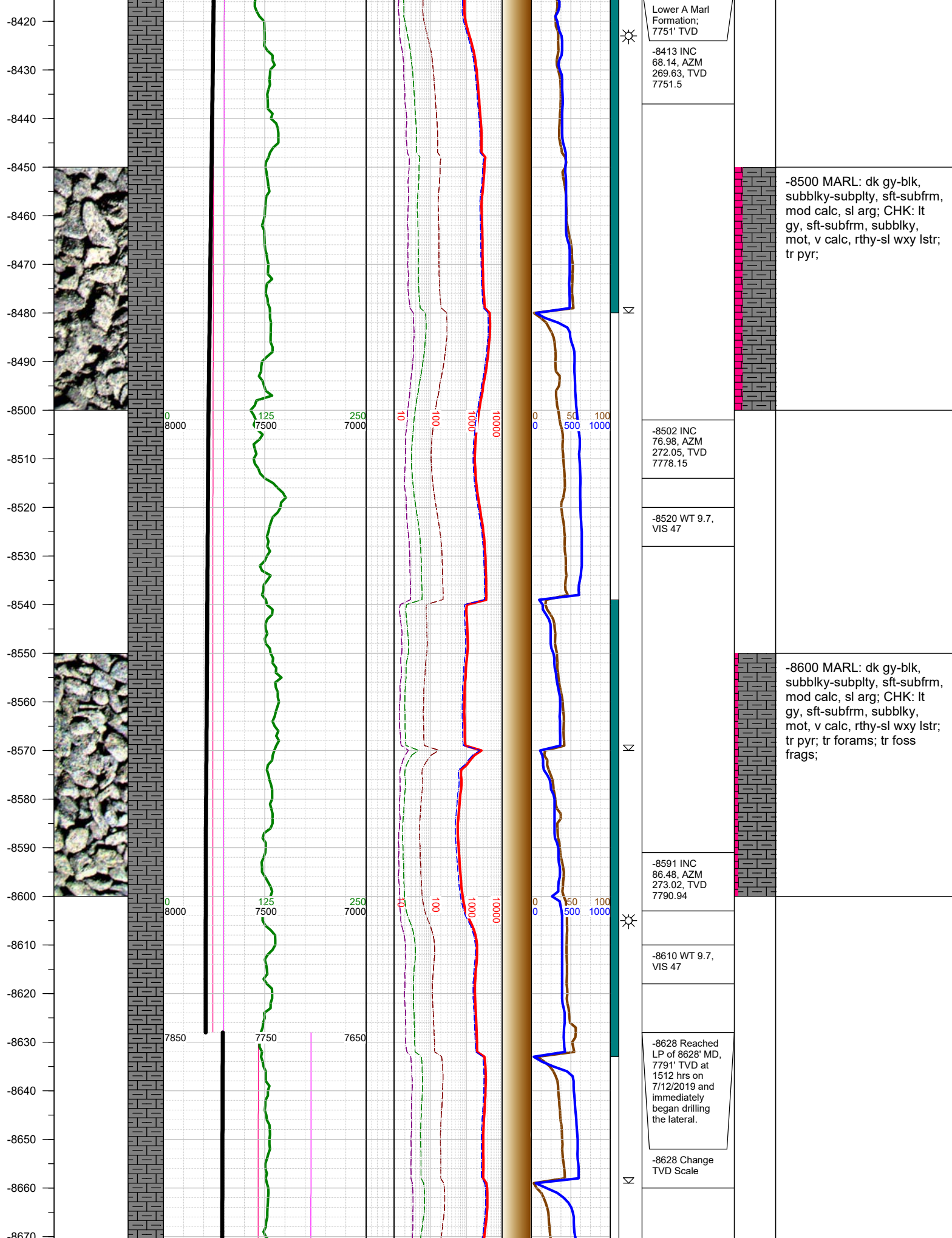
-7800 WT 9.8, VIS 48

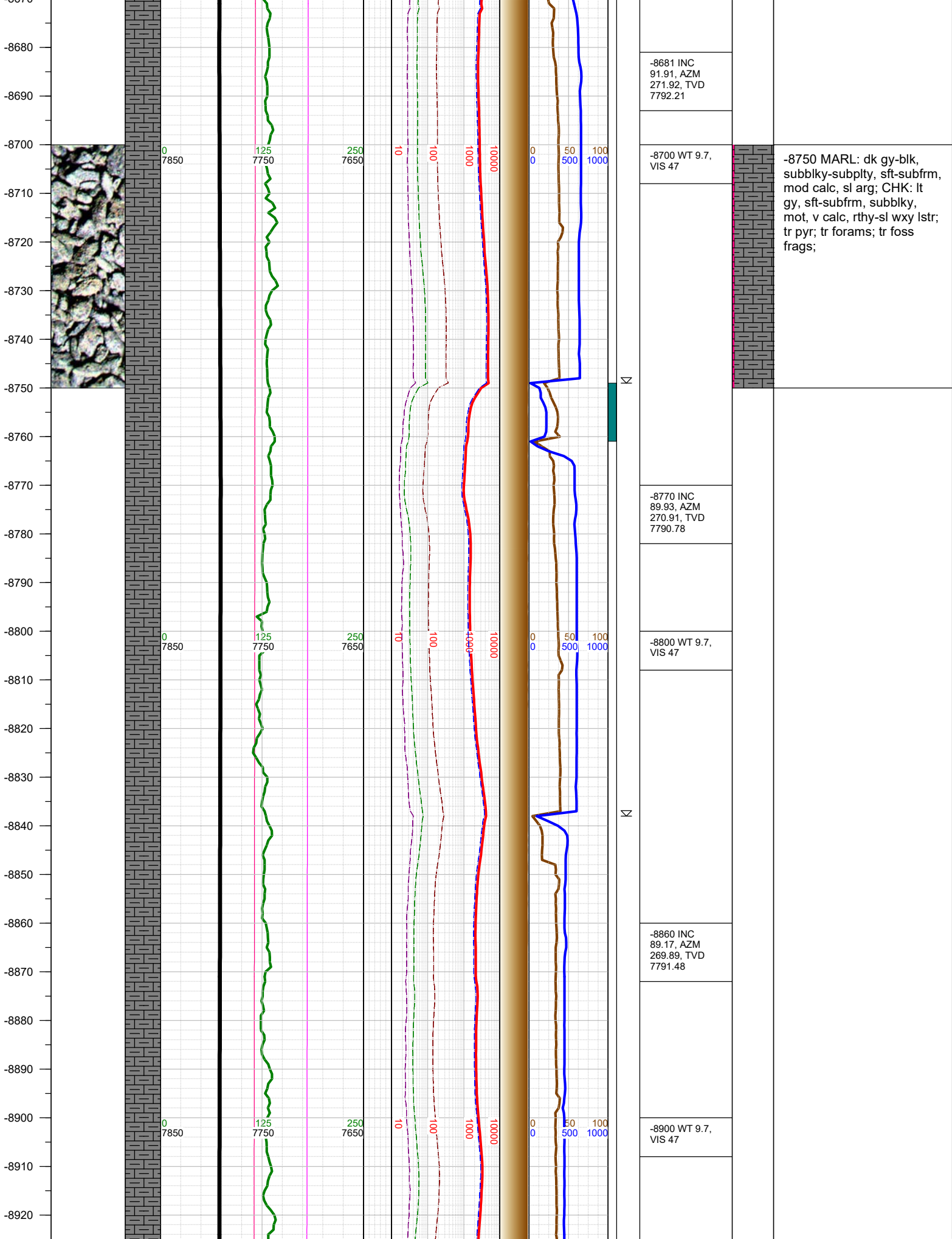
-7877 INC 12.73, AZM 276.86, TVD 7345.4

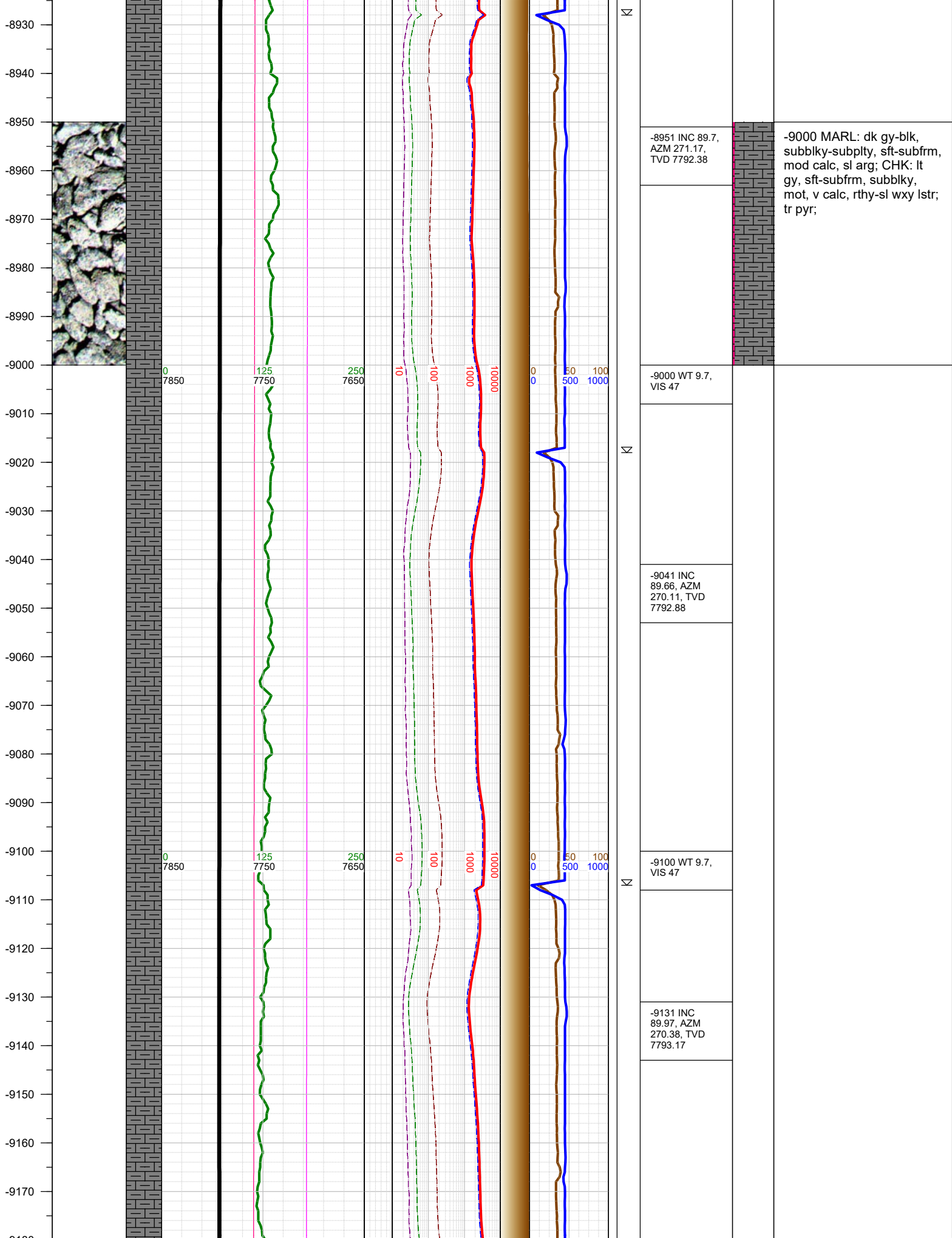
-7900 WT 9.8, VIS 48

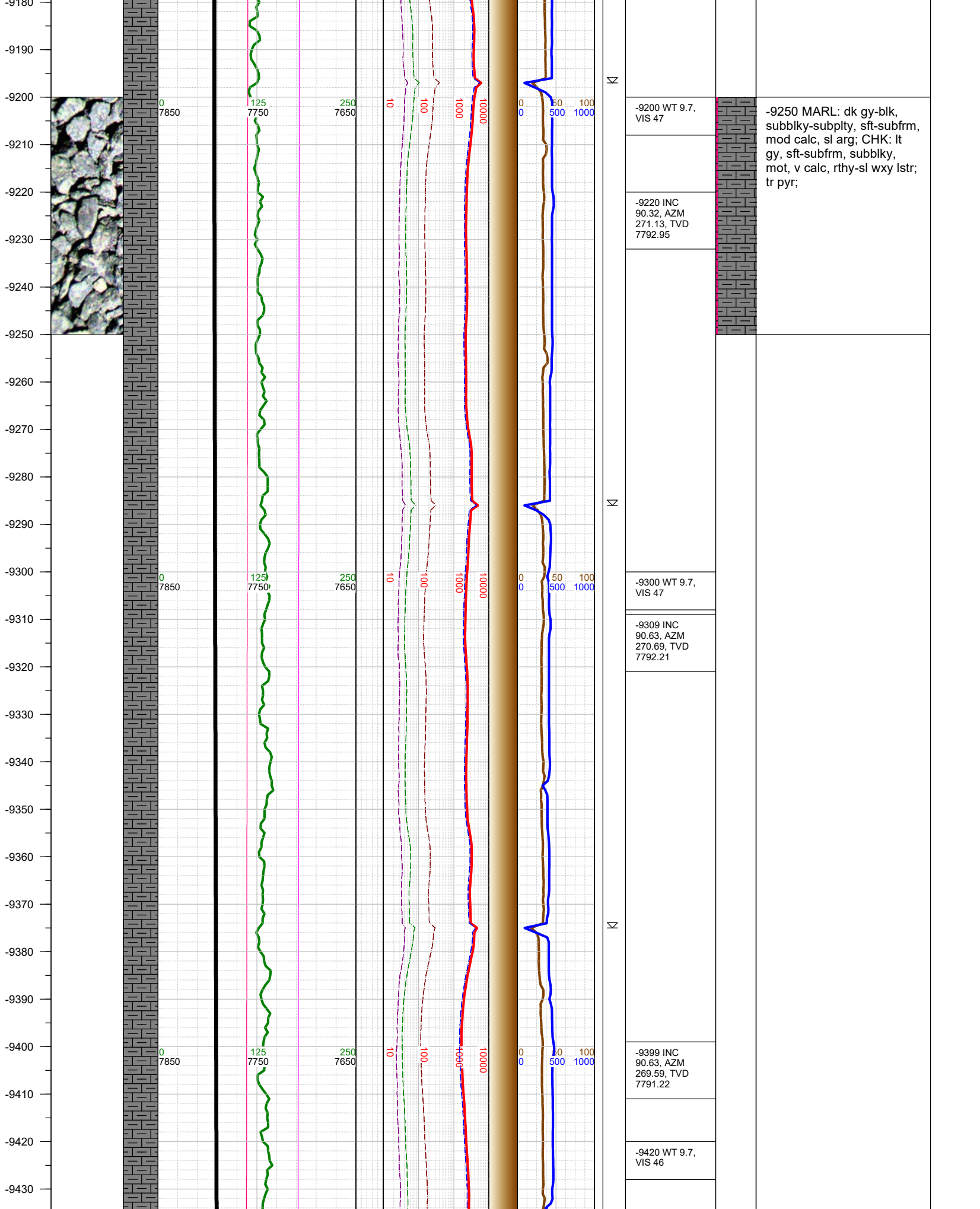


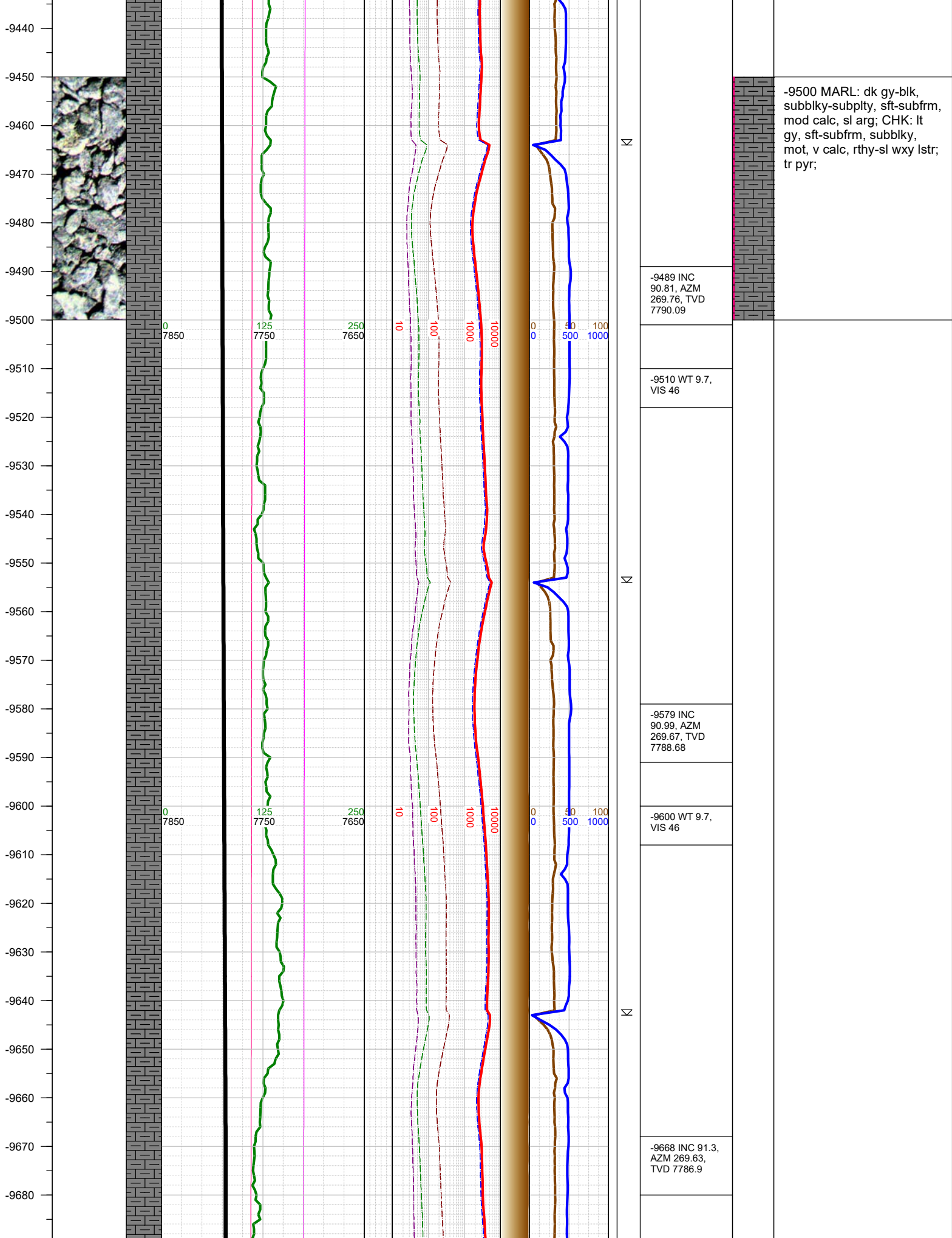


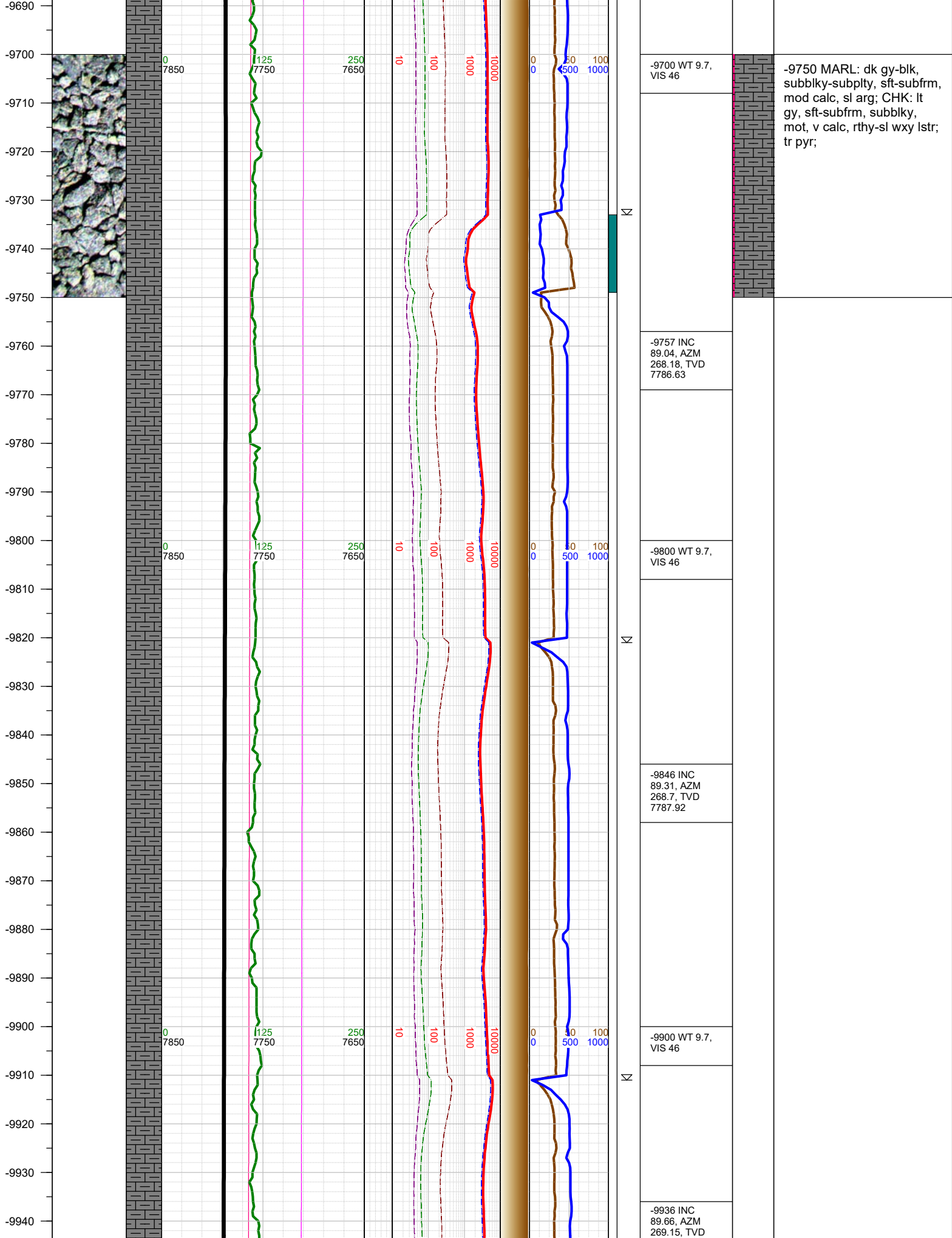


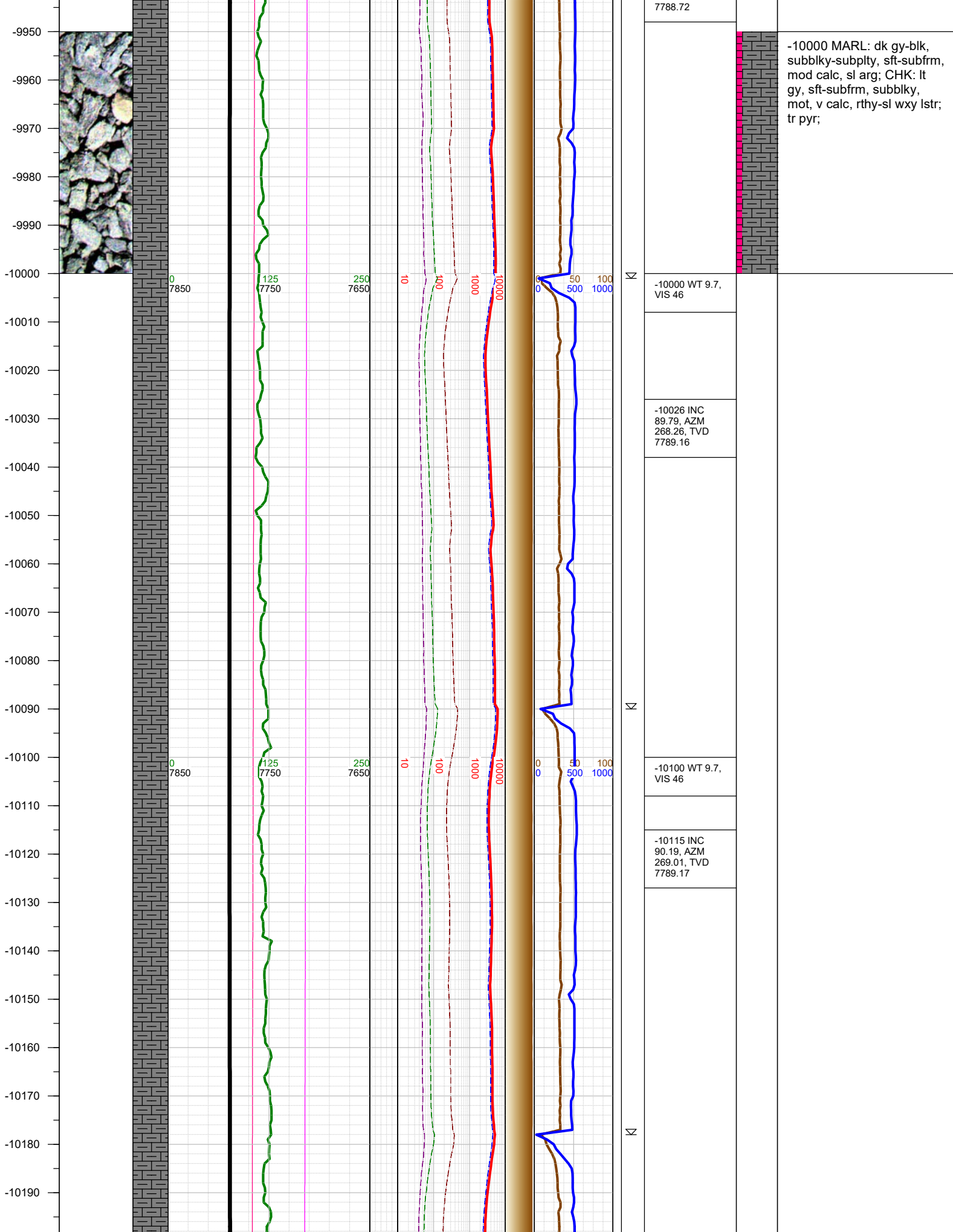


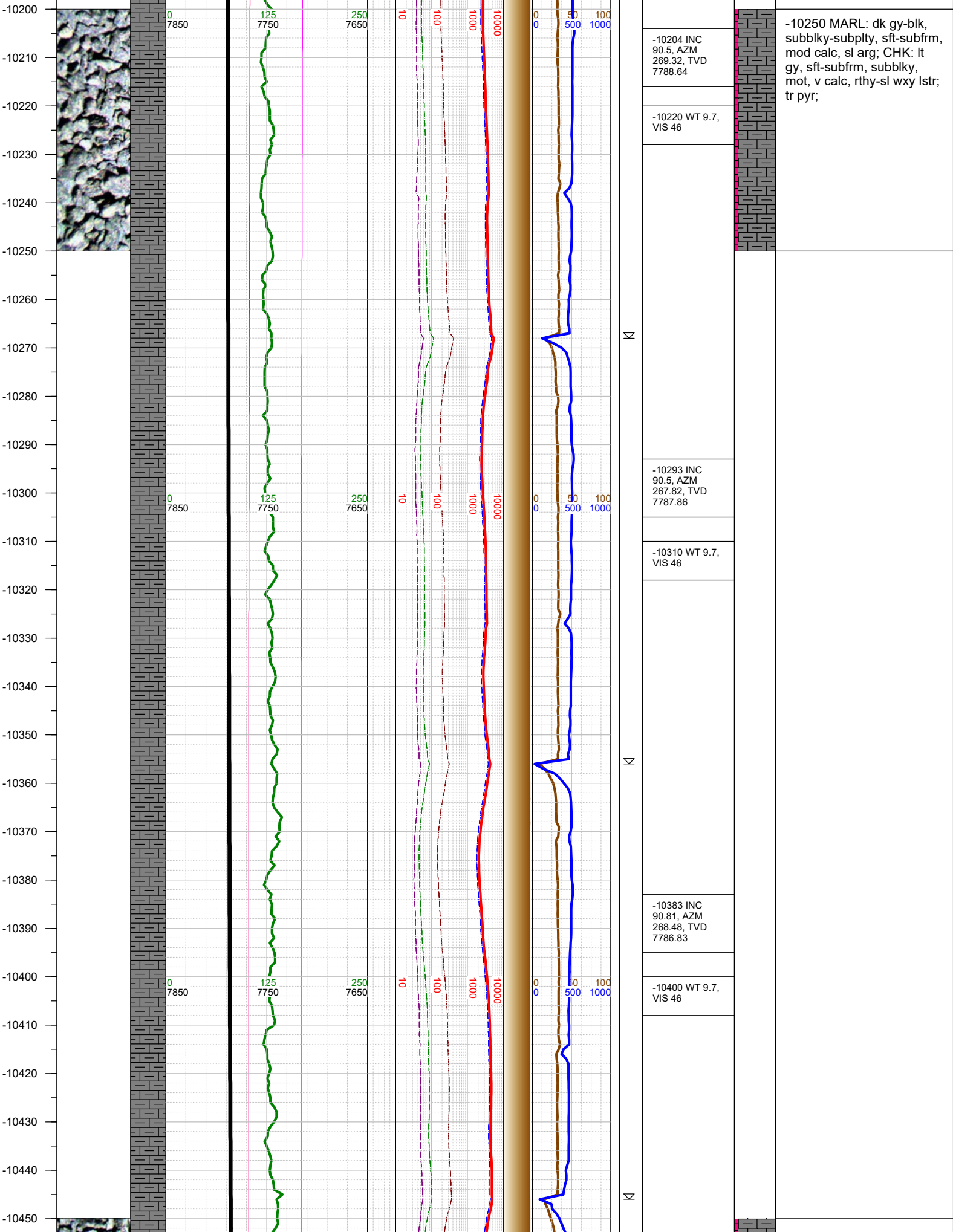


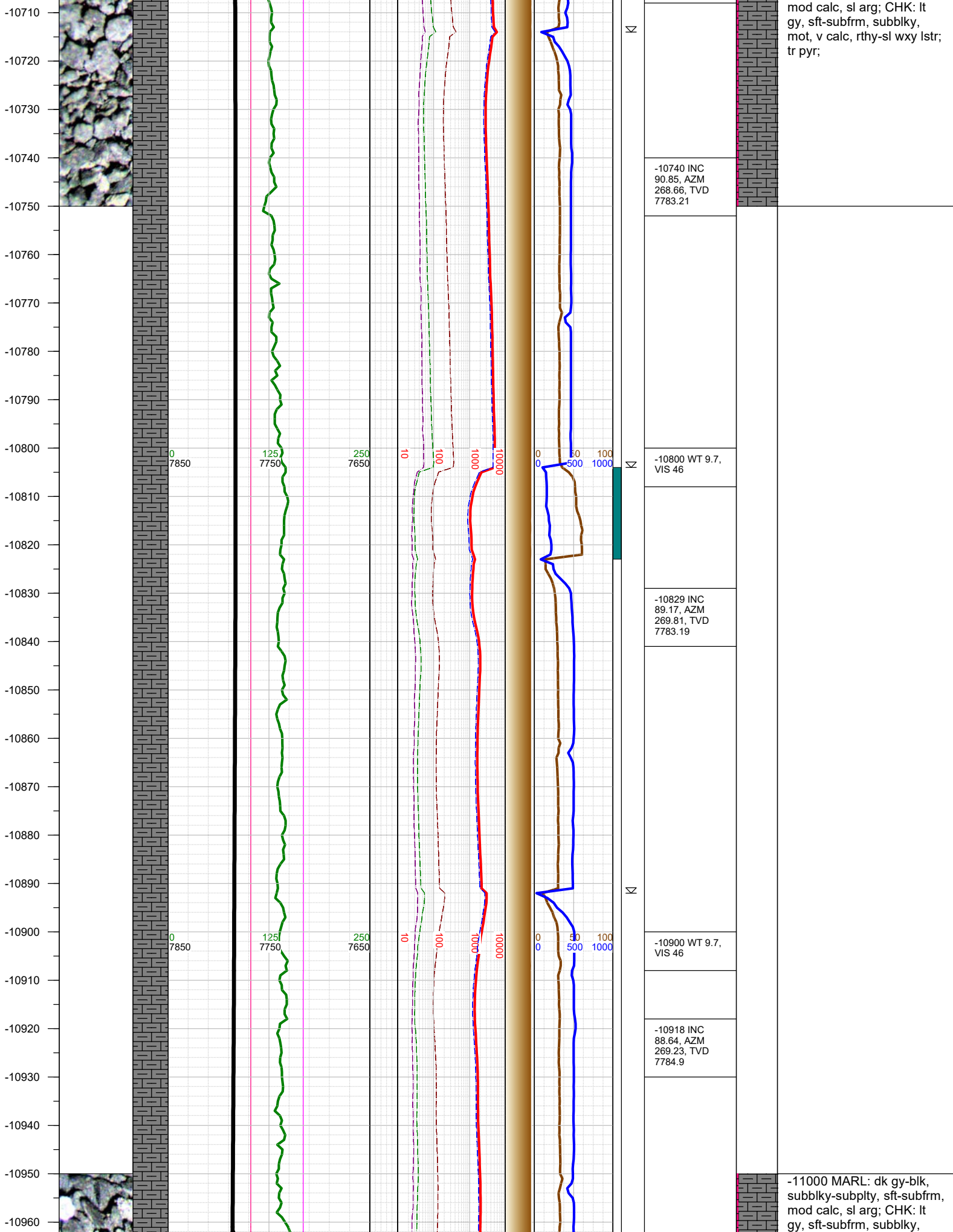


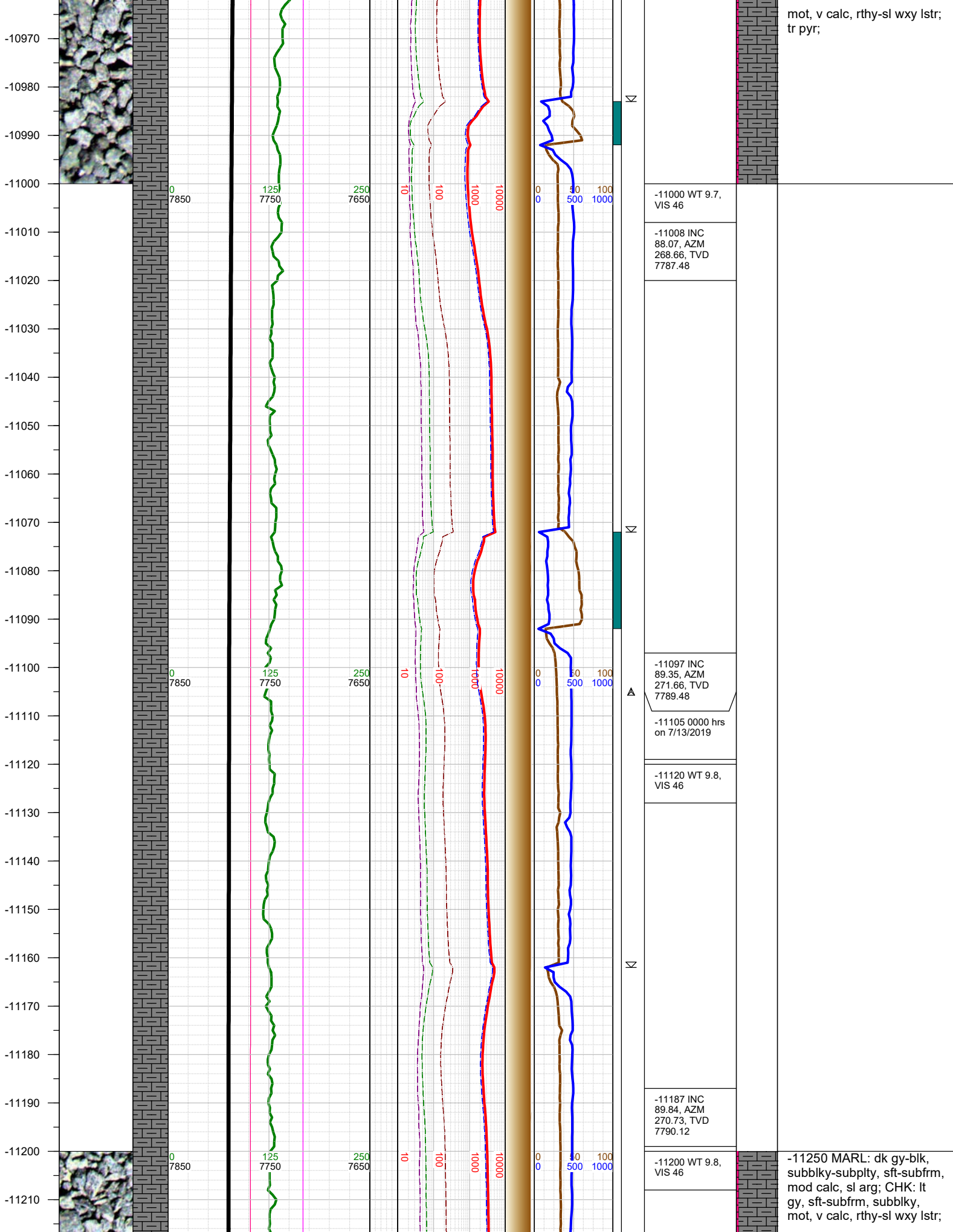


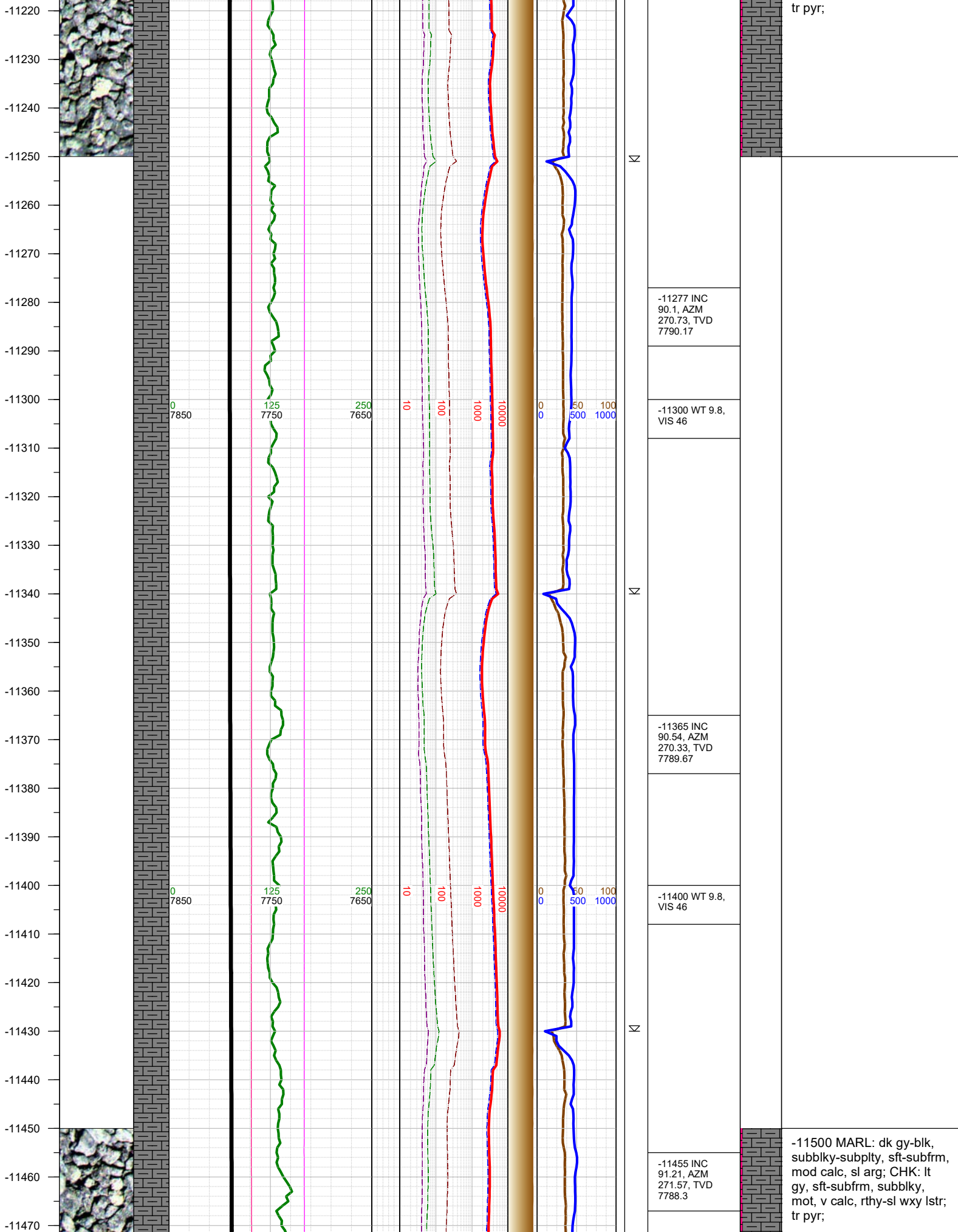




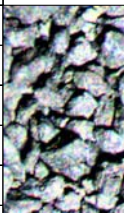
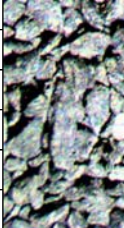








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-11500 WT 9.8,
VIS 46

-11544 INC
89.13, AZM
270.56, TVD
7788.04

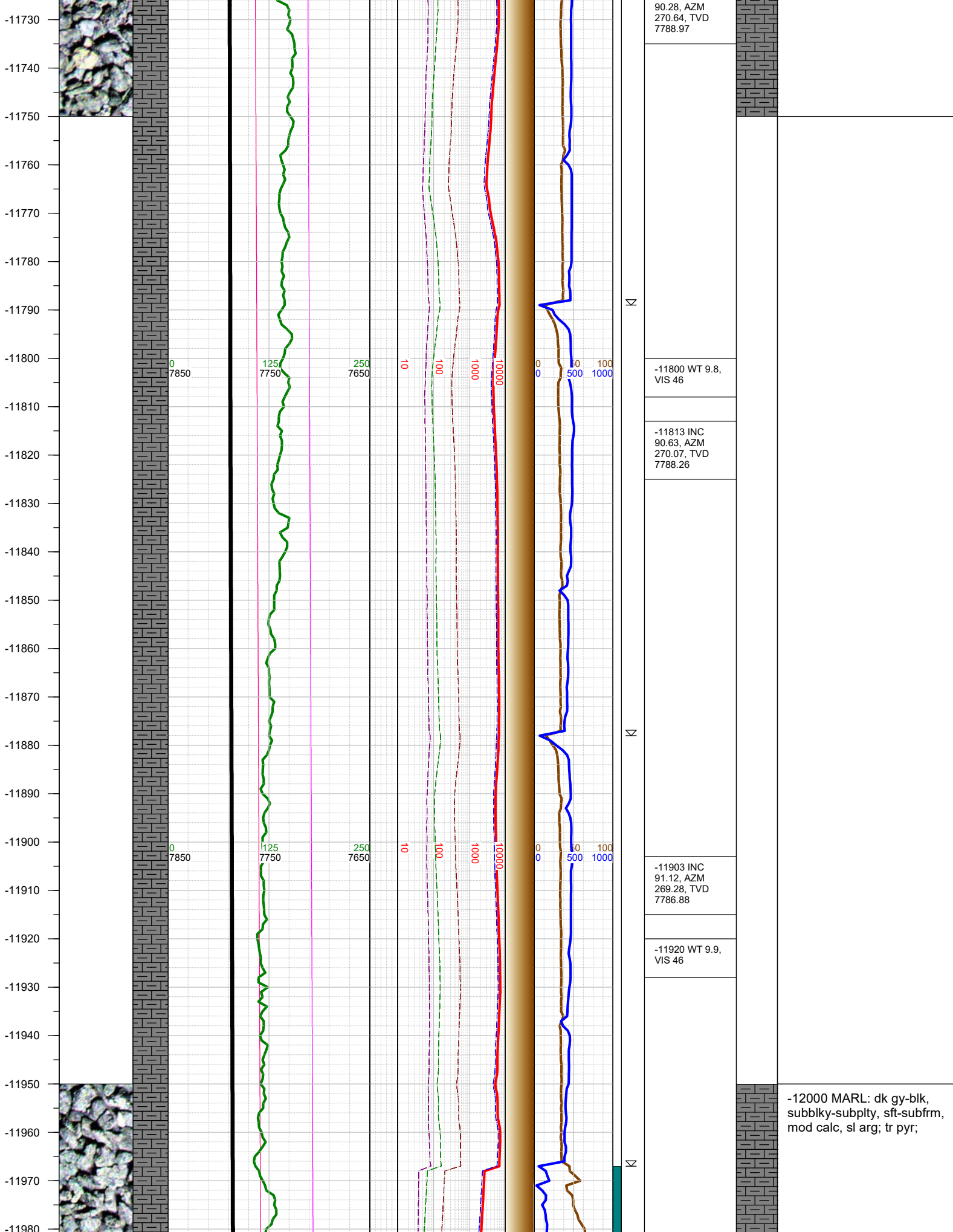
-11600 WT 9.8,
VIS 46

-11634 INC
89.7, AZM
270.78, TVD
7788.96

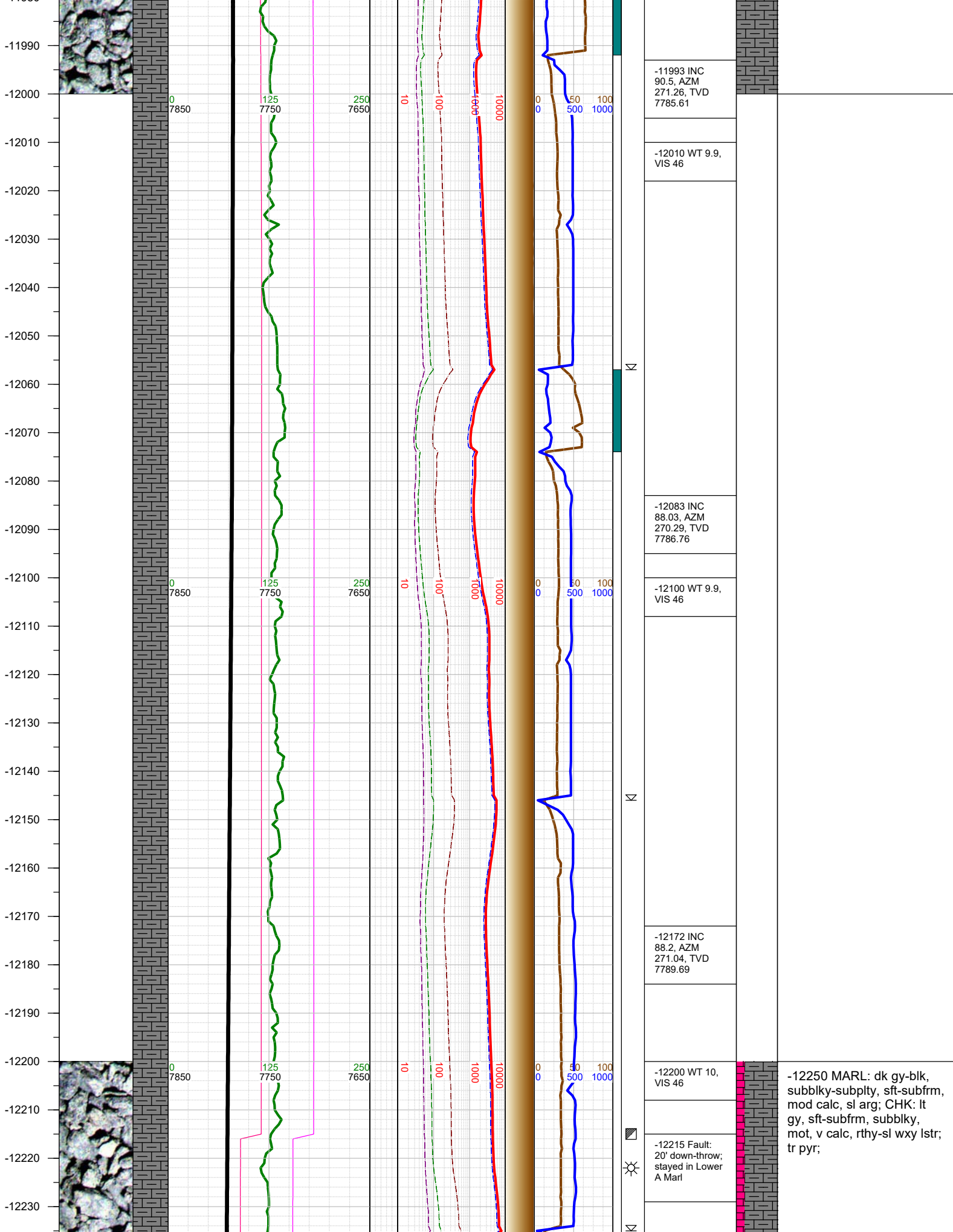
-11700 WT 9.8,
VIS 46

-11723 INC

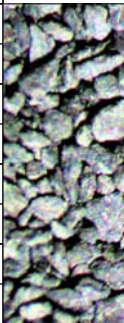
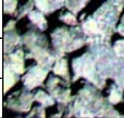
-11750 MARL: dk gy-blk,
subbly-subplty, sft-subfrm,
mod calc, sl arg; tr pyr;



-12000 MARL: dk gy-blk, subblky-subplty, sft-subfrm, mod calc, sl arg; tr pyr;



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-12262 INC
87.85, AZM
270.11, TVD
7792.79

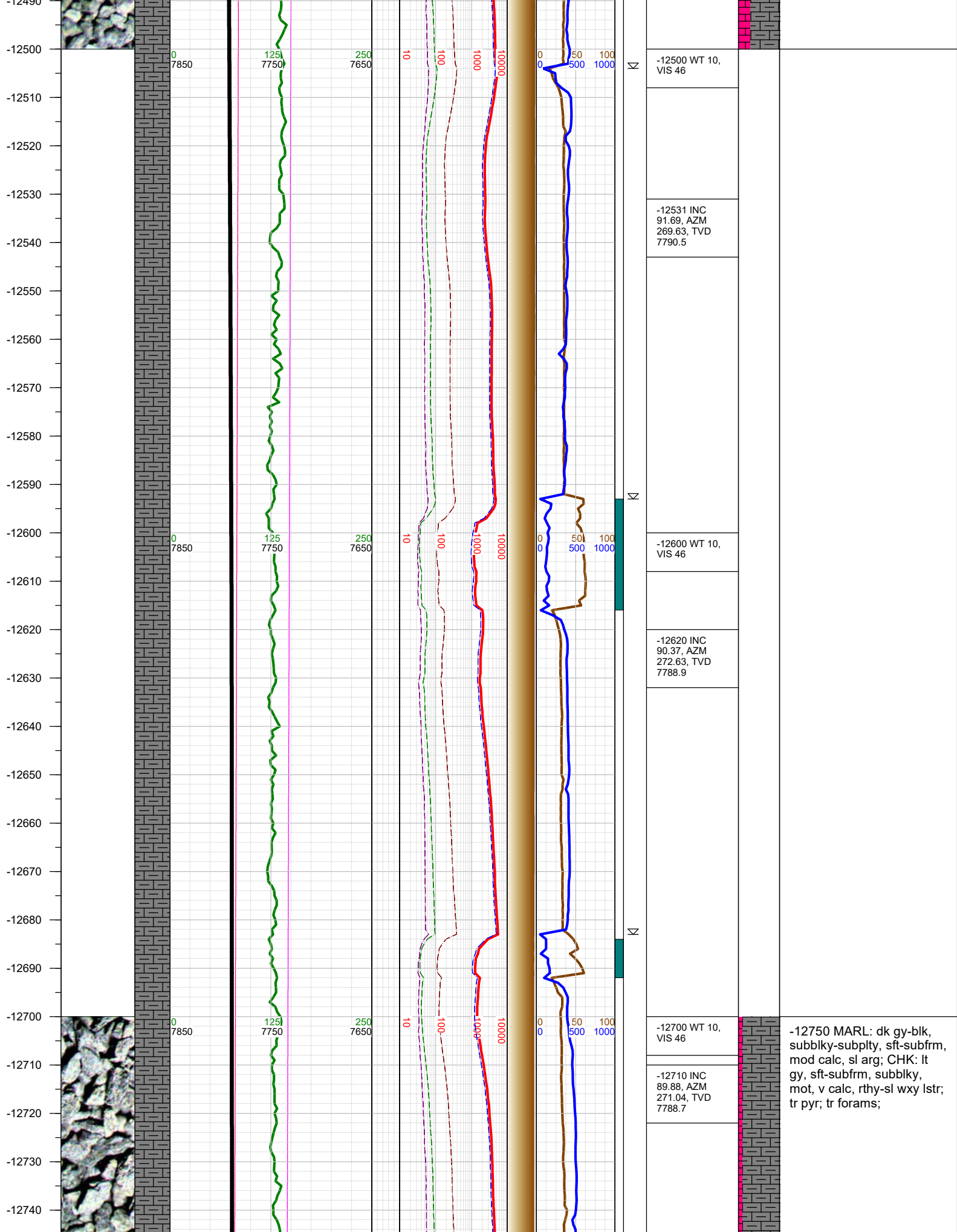
-12300 WT 10,
VIS 46

-12352 INC
90.63, AZM 271,
TVD 7793.99

-12400 WT 10,
VIS 46

-12441 INC
91.07, AZM
269.67, TVD
7792.67

-12500 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;
mod pyr;



-12500 WT 10,
VIS 46

-12531 INC
91.69, AZM
269.63, TVD
7790.5

-12600 WT 10,
VIS 46

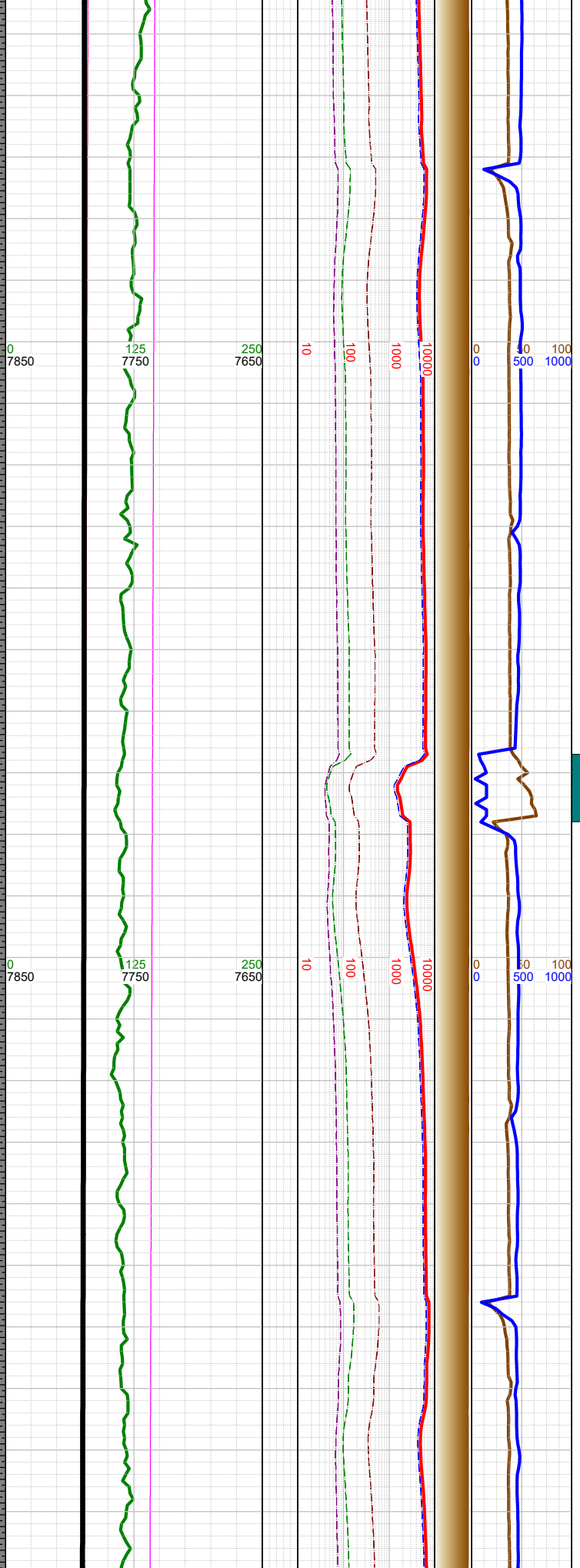
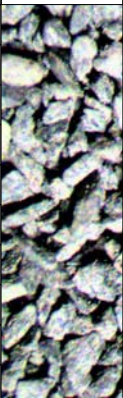
-12620 INC
90.37, AZM
272.63, TVD
7788.9

-12700 WT 10,
VIS 46

-12710 INC
89.88, AZM
271.04, TVD
7788.7

-12750 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 pyr; tr forams;

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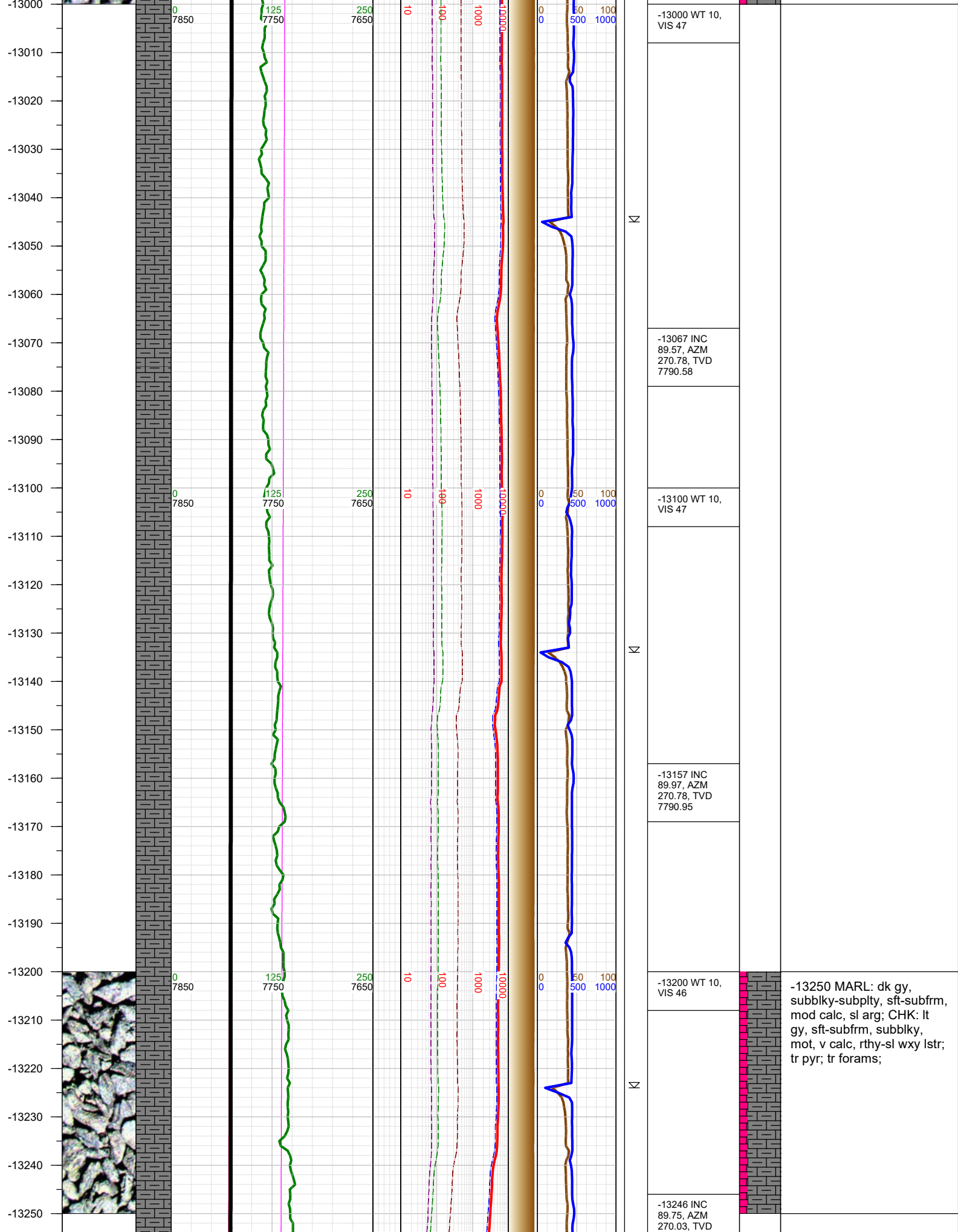


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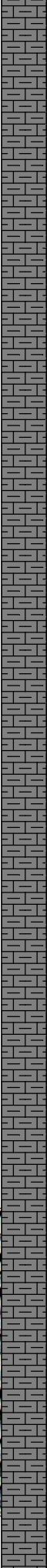
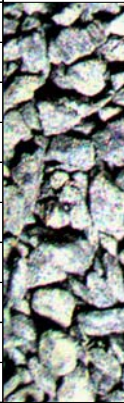
-12799 INC 90.28, AZM 271.13, TVD 7788.58	
-12820 WT 10, VIS 46	
-12888 INC 89.26, AZM 270.82, TVD 7788.94	
-12900 WT 10, VIS 47	
-12978 INC 89.53, AZM 271.57, TVD 7789.89	



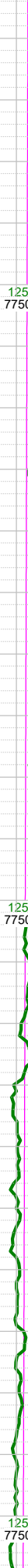
-13000 MARL: dk gy-blk, subblky-subplty, sft-subfrm, mod calc, sl arg; CHK: lt gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; tr pyr; tr forams;



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125 7750



250 7650



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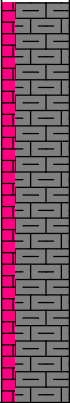
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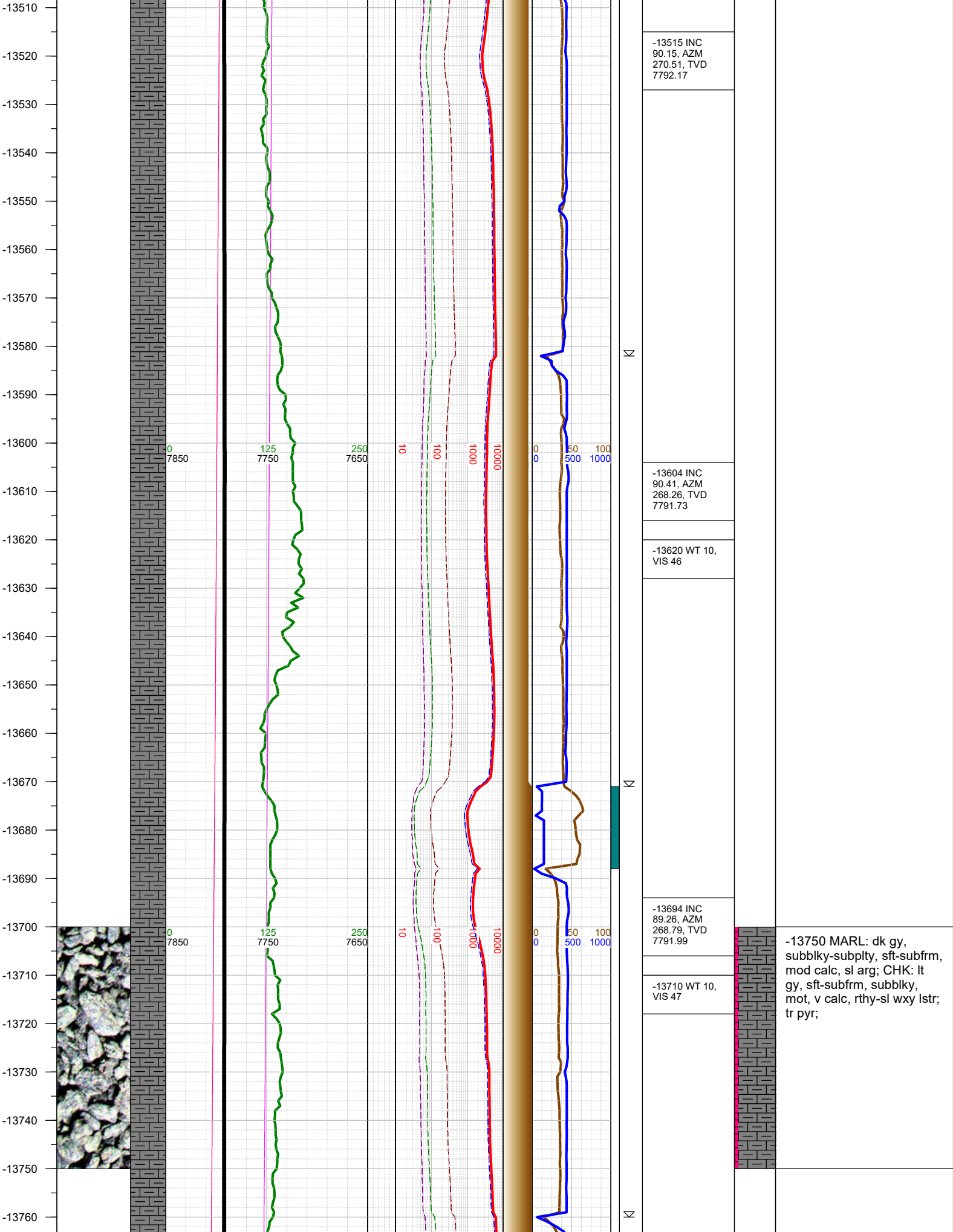
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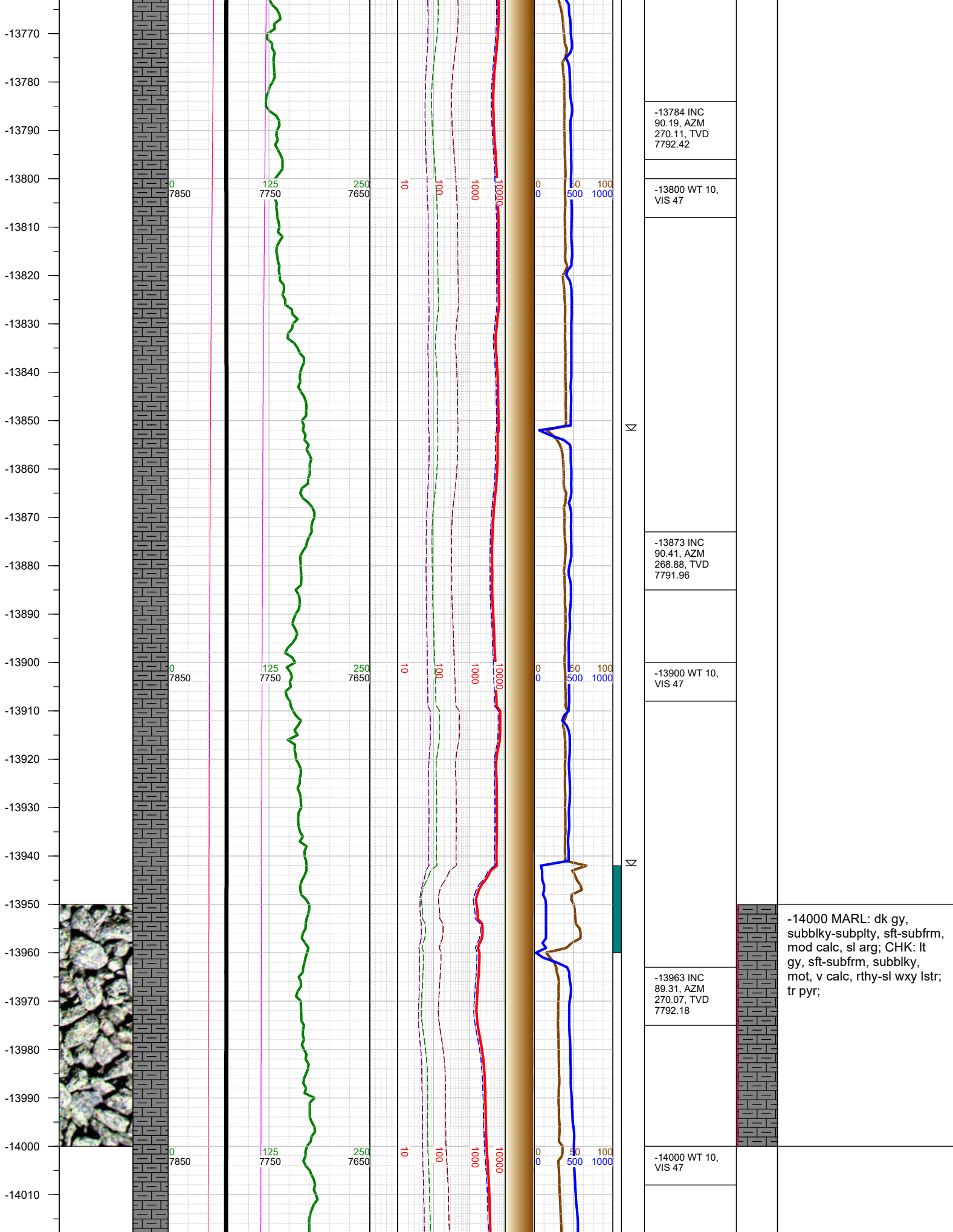
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7791.16
-13300 WT 10, VIS 46
-13336 INC 89.88, AZM 271.3, TVD 7791.45
-13400 WT 10, VIS 46
-13426 INC 89.53, AZM 269.06, TVD 7791.92
-13500 WT 10, VIS 46



-13500 MARL: dk gy, subblky-subplty, sft-subfrm, mod calc, sl arg; CHK: lt gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; tr pyr;





-13784 INC
90.19, AZM
270.11, TVD
7792.42

-13800 WT 10,
VIS 47

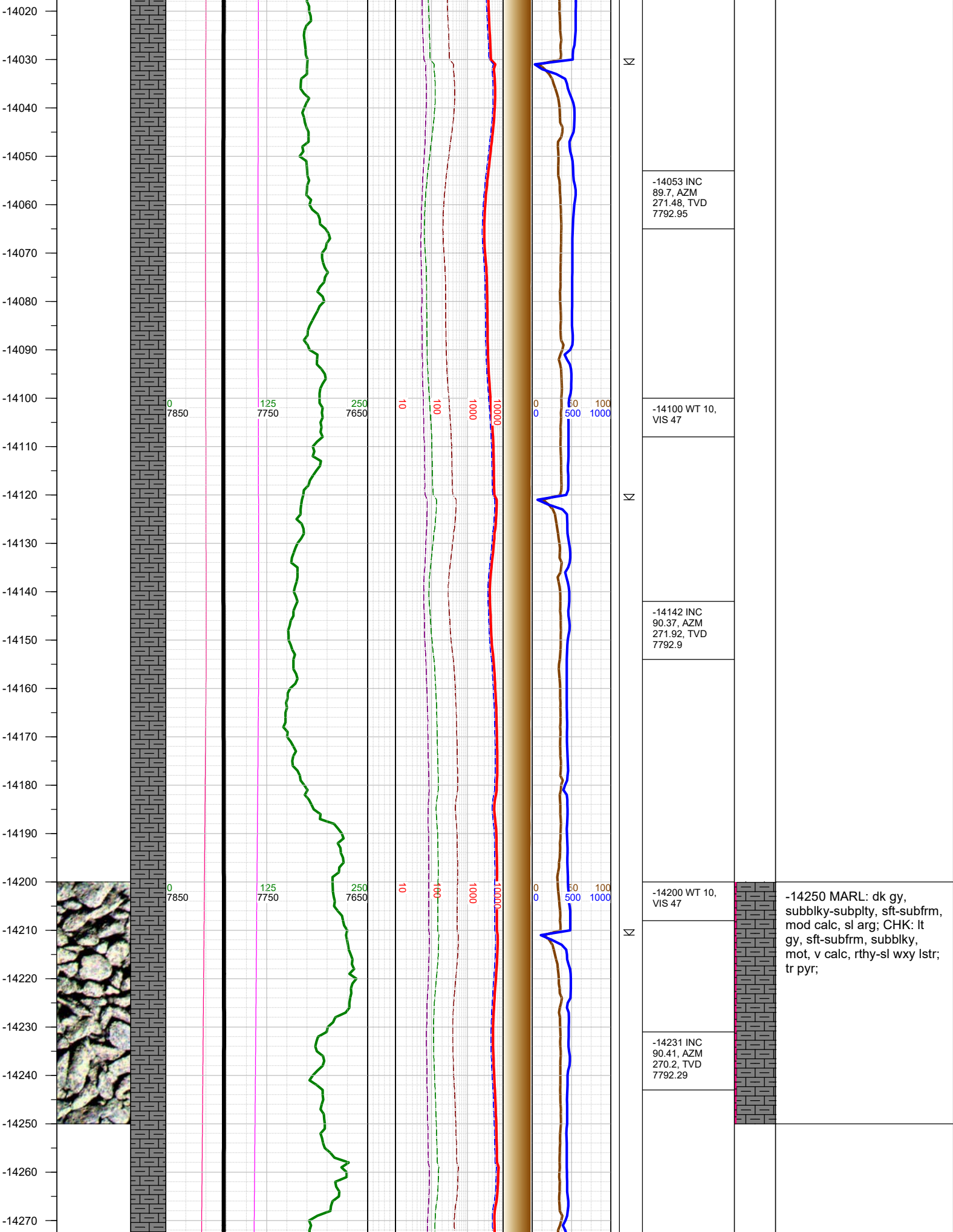
-13873 INC
90.41, AZM
268.88, TVD
7791.96

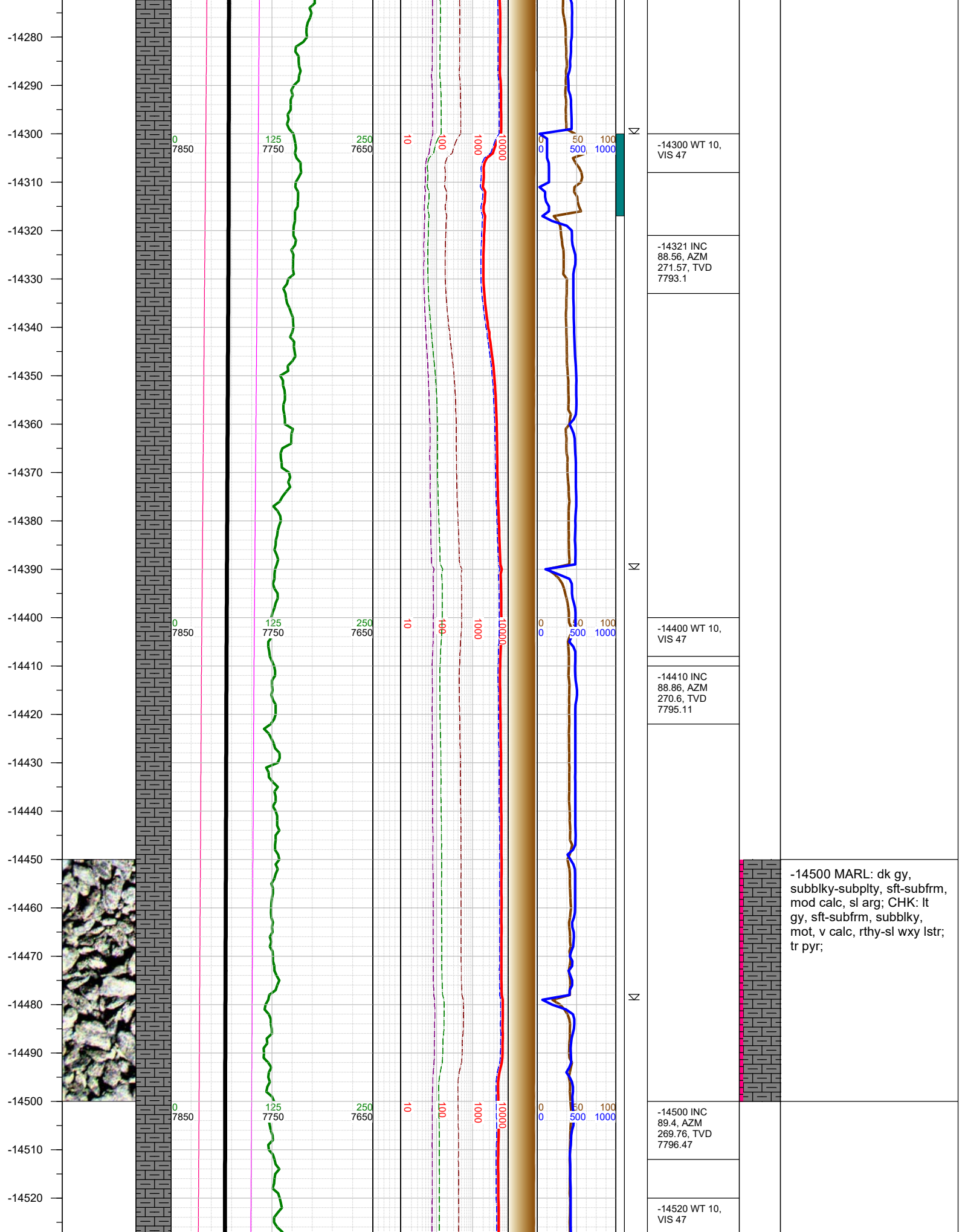
-13900 WT 10,
VIS 47

-13963 INC
89.31, AZM
270.07, TVD
7792.18

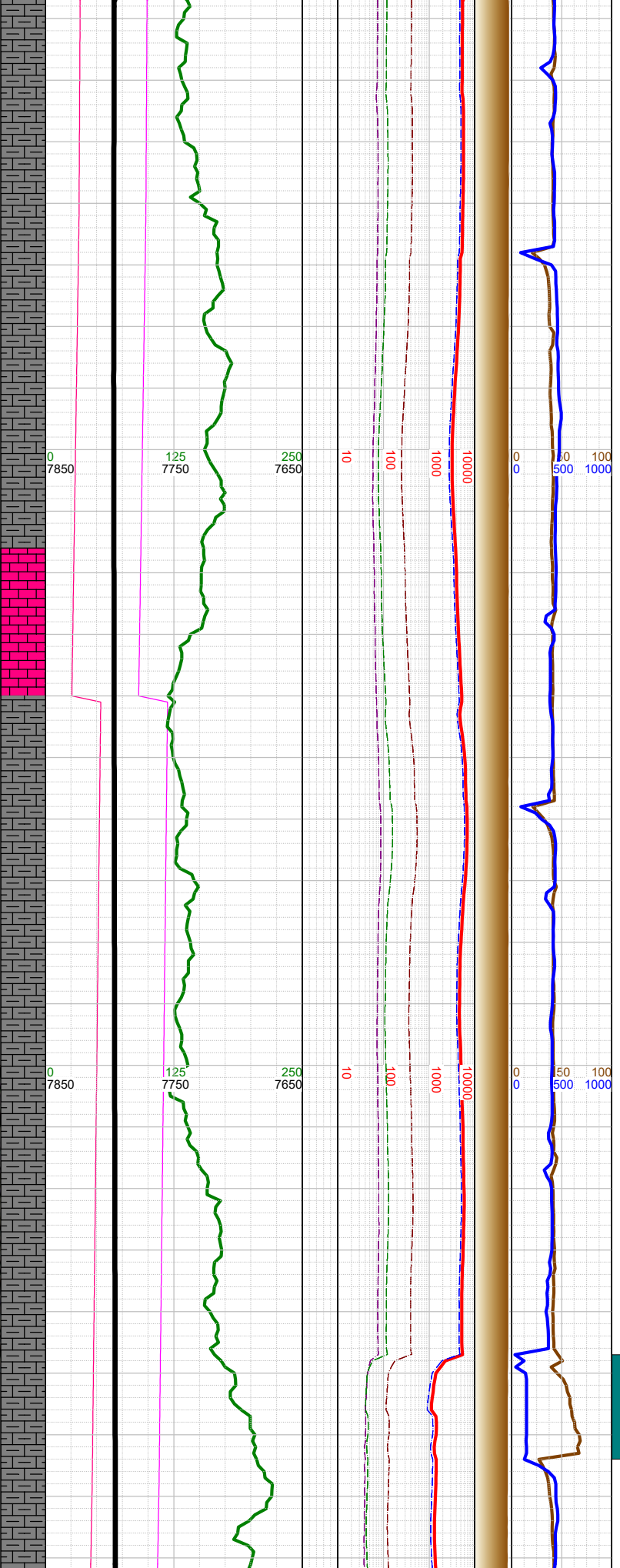
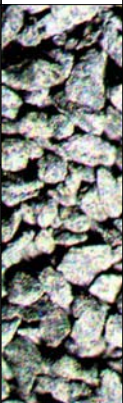
-14000 WT 10,
VIS 47

-14000 MARL: dk gy,
subblky-subplty, sft-subfrm,
mod calc, sl arg; CHK: lt
gy, sft-subfrm, subblky,
mot, v calc, rthy-sl wxy lstr;
tr pyr;

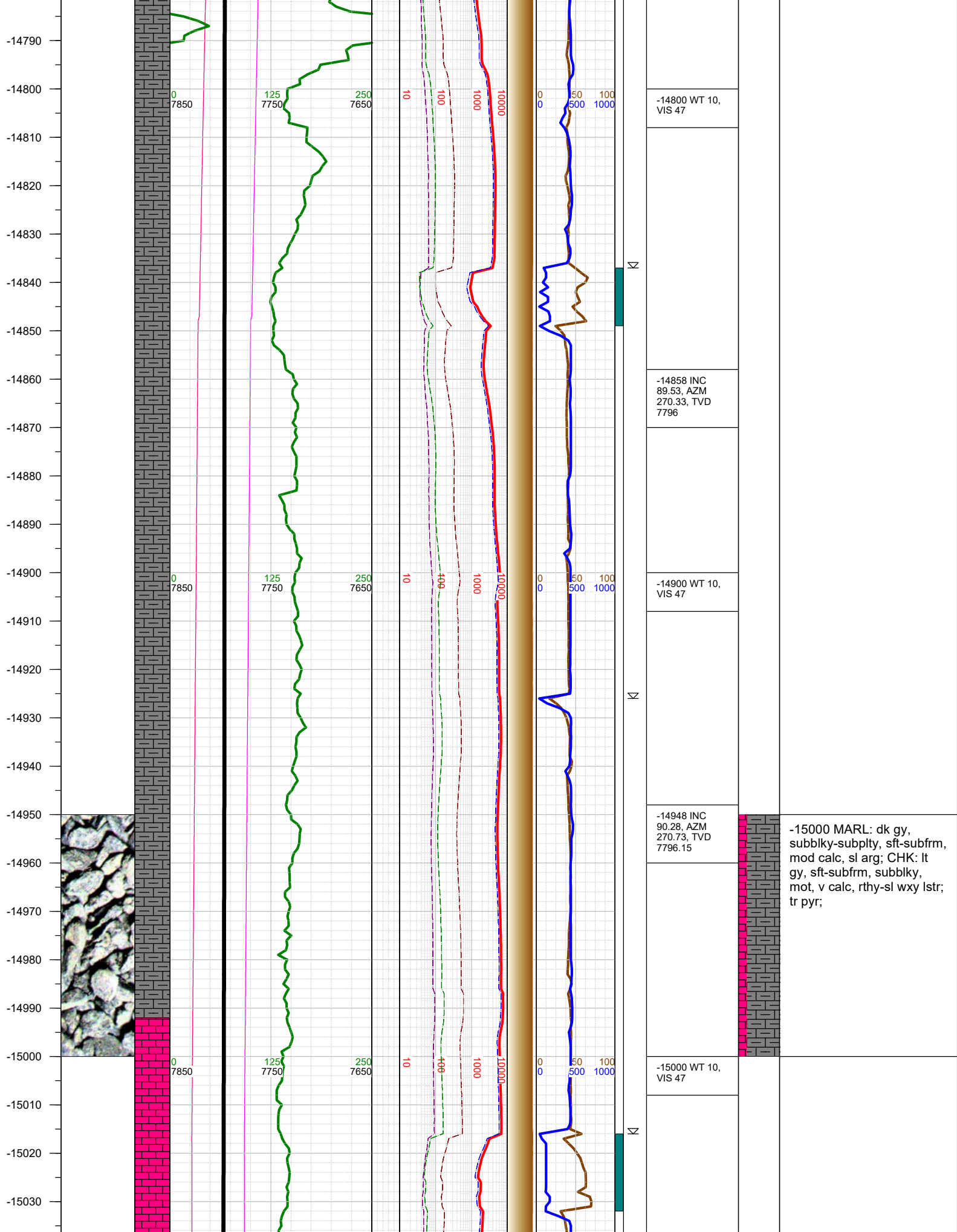




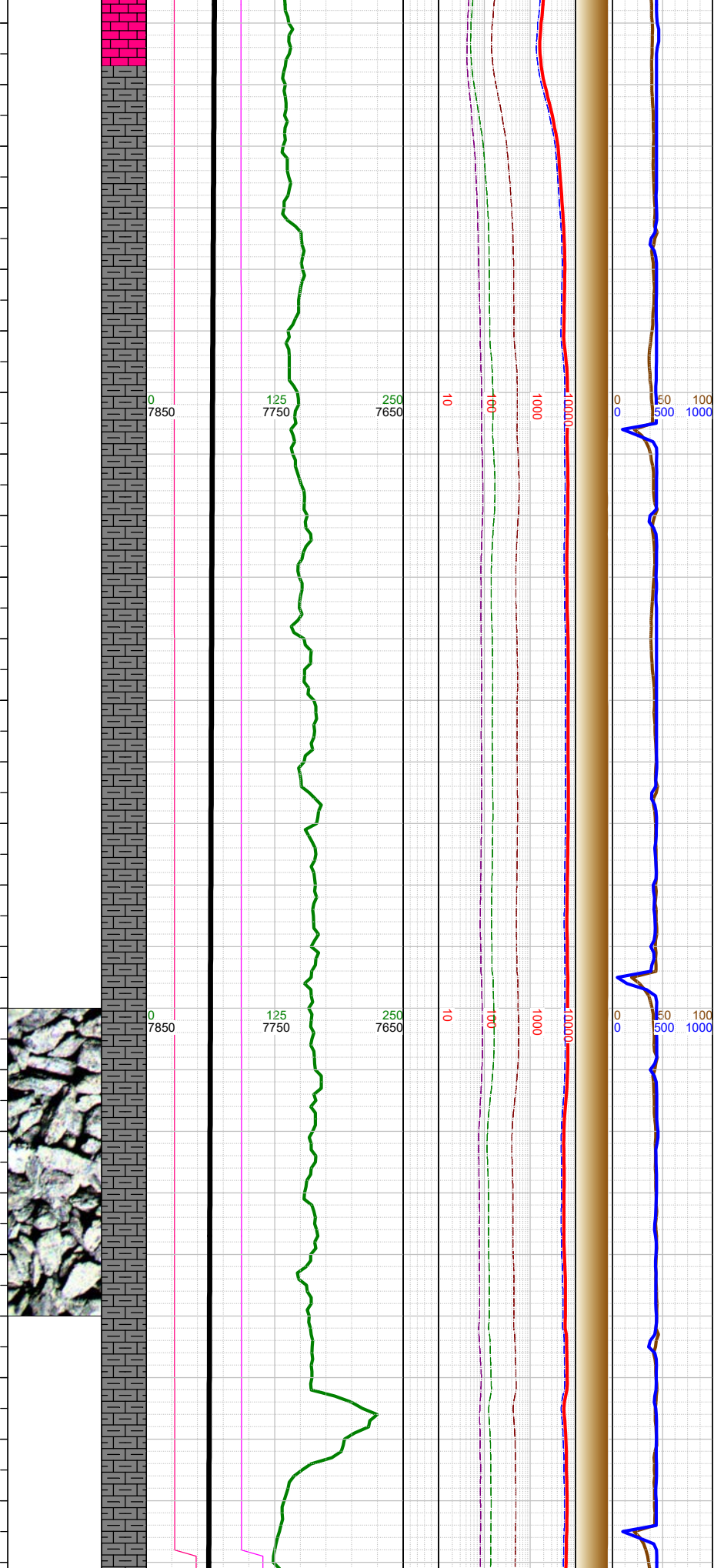
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	-14589 INC 90.01, AZM 269.45, TVD 7796.93		
	-14610 WT 10, VIS 47		
	-14640 Fault: 23' up-throw; went from A Chalk to A Marl	Σ	
	-14679 INC 90.72, AZM 268.79, TVD 7796.36		
	-14700 WT 10, VIS 47		-14750 MARL: dk gy, subblky-subplty, sft-subfrm, mod calc, sl arg; CHK: lt gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; tr pyr;
	-14769 INC 90.1, AZM 270.78, TVD 7795.71	Σ	



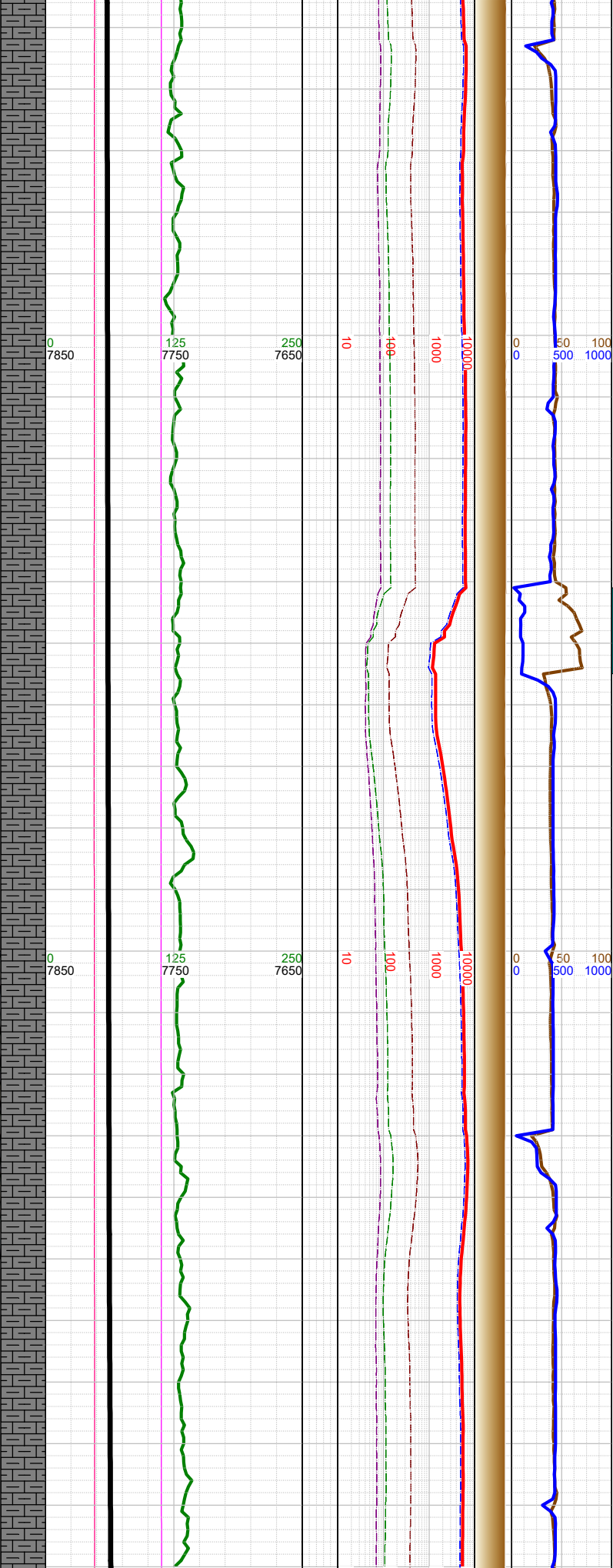
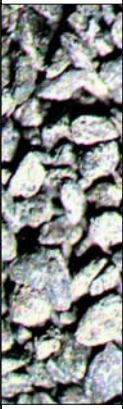
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-15280
-15290



-15037 INC 88.56, AZM 269.72, TVD 7797.05	
-15100 WT 10, VIS 47	
-15127 INC 88.95, AZM 269.63, TVD 7799.01	
-15200 WT 10, VIS 47	
-15216 INC 89.35, AZM 270.73, TVD 7800.33	
-15288 Fault:	

-15250 MARL: dk gy,
subblky-subplty, sft-subfrm,
mod calc, sl arg; CHK: lt
gy, sft-subfrm, subblky,
mot, v calc, rthy-sl wxy lstr;
tr pyr;

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-15574 INC
90.63, AZM
268.09, TVD
7801.89

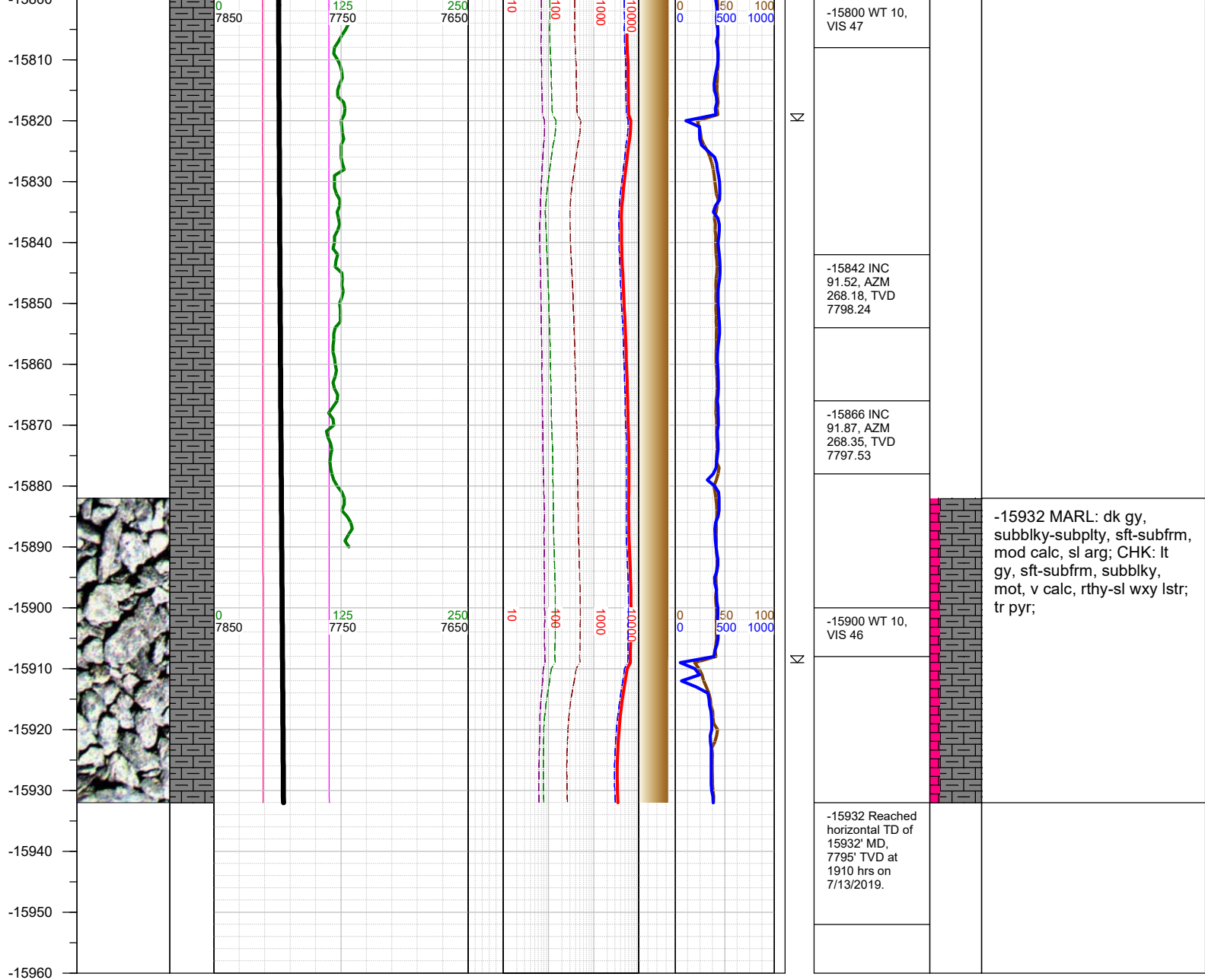
-15600 WT 10,
VIS 47

-15664 INC
90.15, AZM
268.62, TVD
7801.28

-15700 WT 10,
VIS 47

-15753 INC
91.12, AZM
269.72, TVD
7800.29

-15750 MARL: dk gy,
subblky-subplty, sft-subfrm,
mod calc, sl arg; CHK: lt
gy, sft-subfrm, subblky,
mot, v calc, rthy-sl wxy lstr;
tr pyr;



TOTAL DEPTH = 15932'

Thank you for using Earth Science Agency