

OPERATOR: **Extraction Oil & Gas**  
WELL NAME: **MT Fed Maplewood 8W-20-4**  
FIELD NAME: DJ Basin - Wattenberg  
DRILLING RIG: Patterson 901  
API #: 05-123-42167

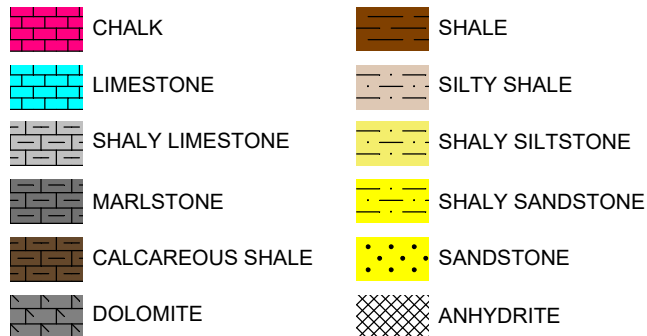
LAT/LONG: 40.41842, -104.67167  
SURFACE HOLE: NENW S9-T5N-R65W, 876' FNL, 1751' FWL  
BOTTOM HOLE: S7-T5N-R65W, 724' FNL, 460' FWL



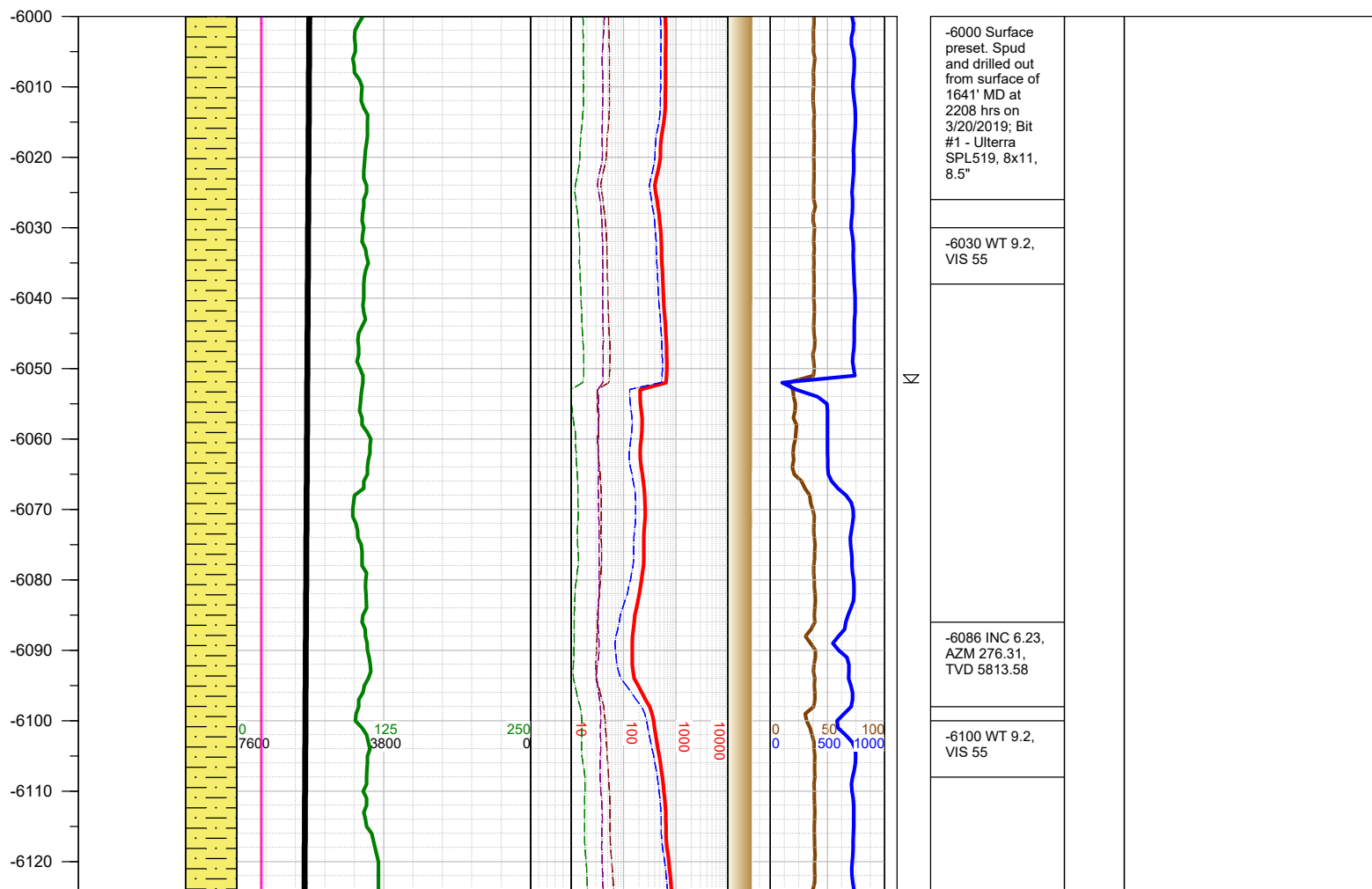
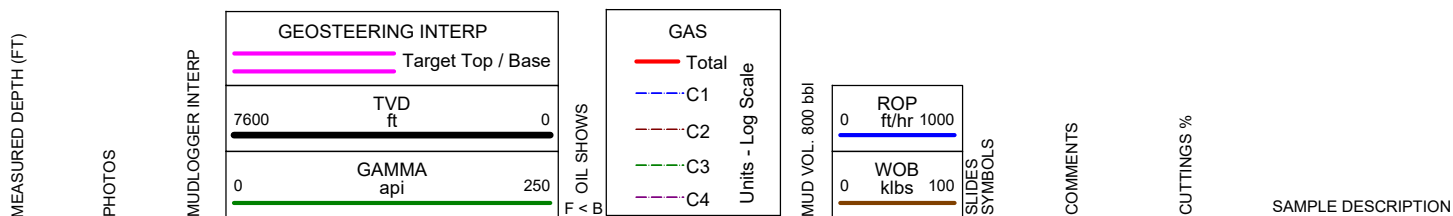
Earth Science Agency, LLC

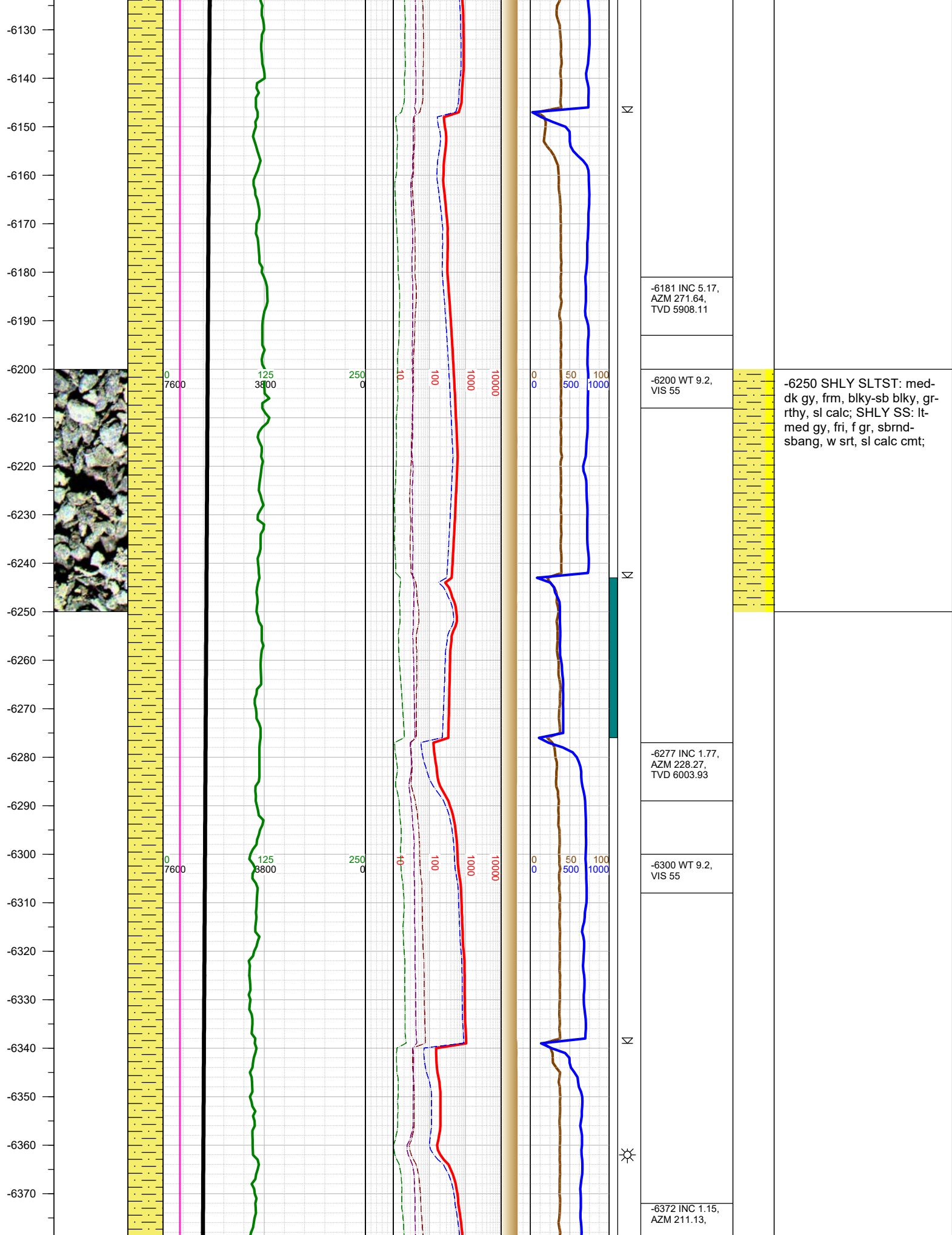
COUNTY: Weld  
STATE: Colorado  
GROUND ELEVATION: 4636'  
KELLY BUSHING: 4665'  
DRILLING FLUID: OBM  
TVD VS. MD: 6956' / 17152'  
SPUD DATE: March 20, 2019  
TD DATE: March 23, 2019  
  
DEPTHS LOGGED: 6000' - 17152'  
DATES LOGGED: March 21, 2019 - March 23, 2019  
GEOLOGISTS: Madison Miller, Dan Jacobs  
SCALE: 5" = 100'

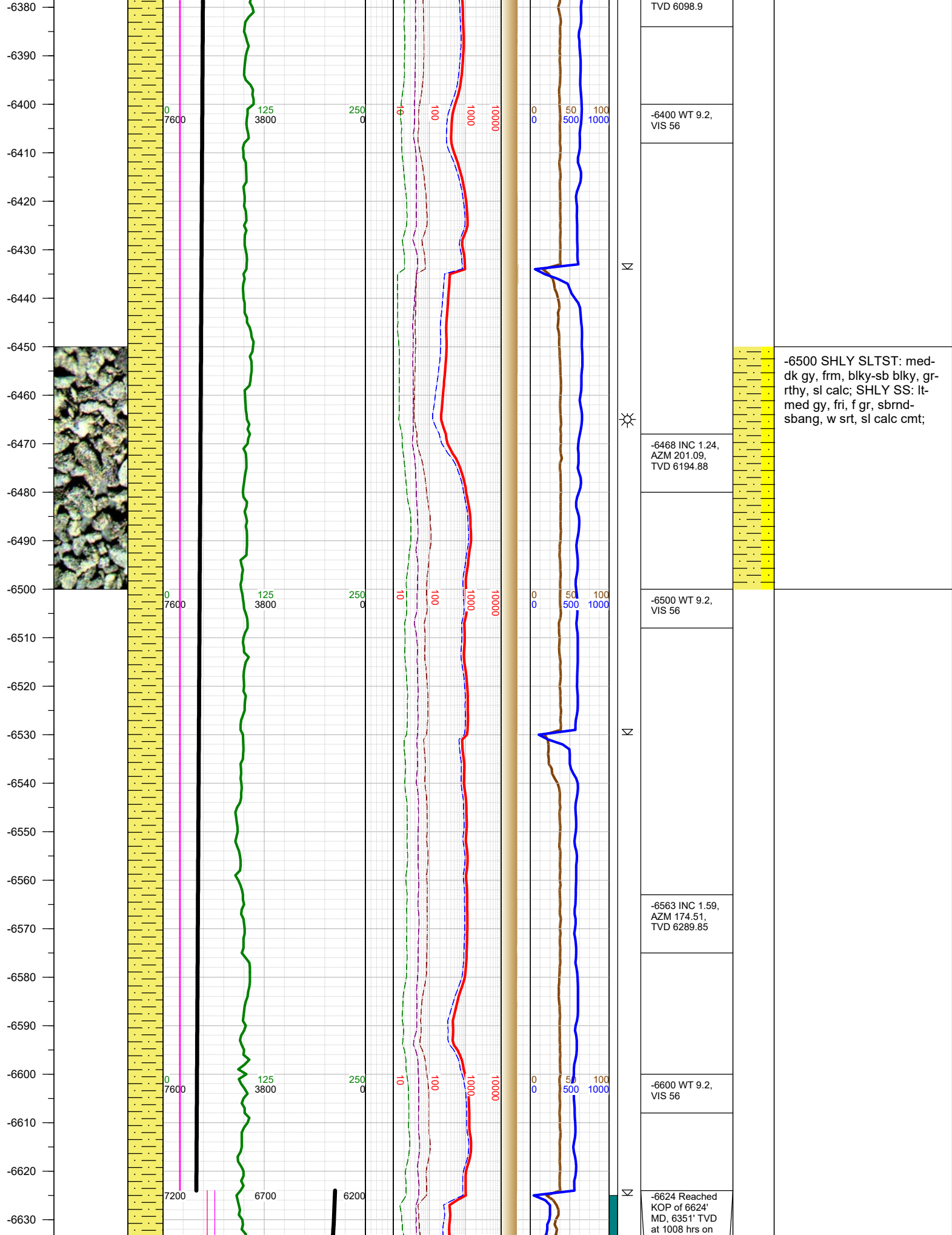
#### LEGEND



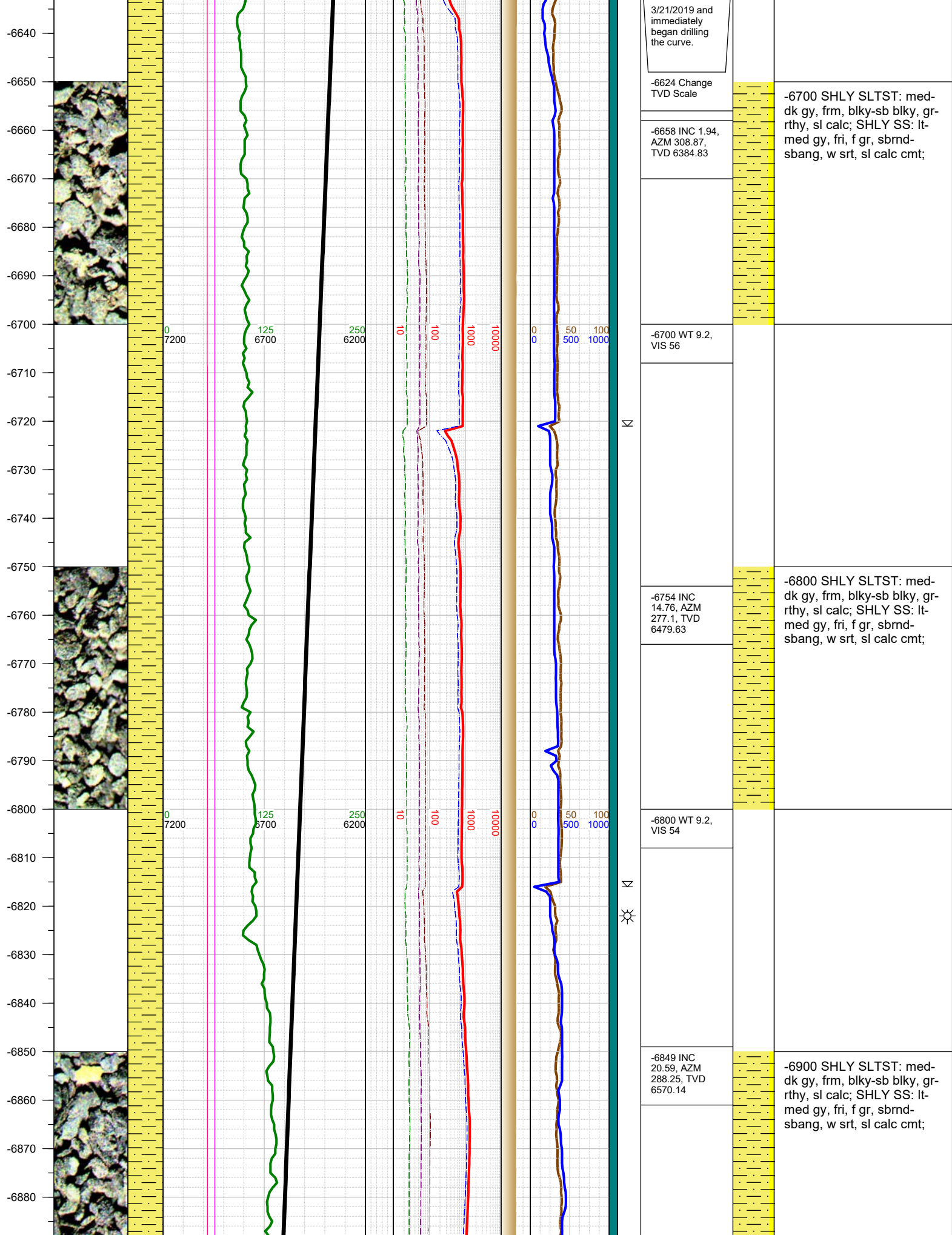
FORMATION CONNECTION MIDNIGHT NEW BIT GAS SHOW FAULT



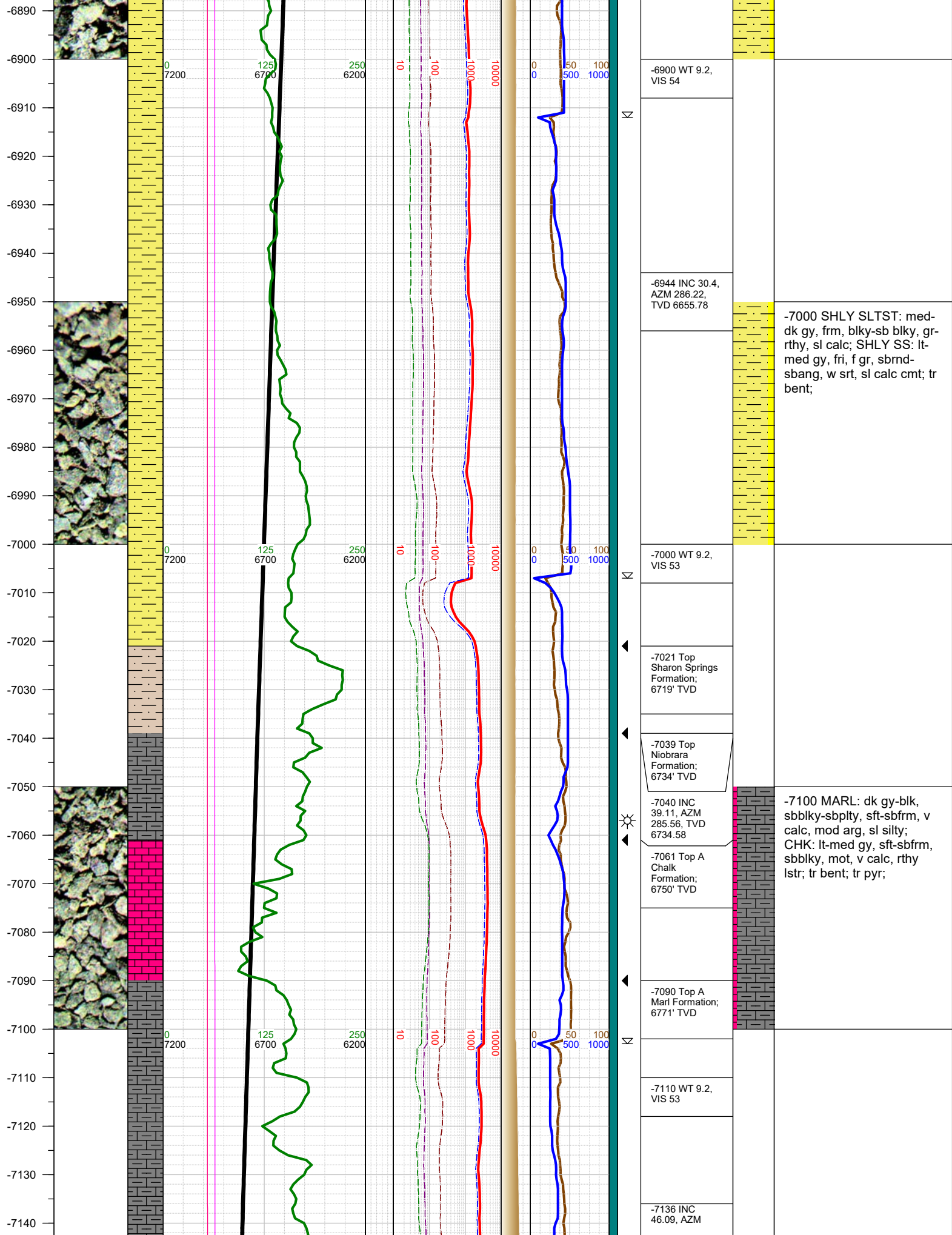


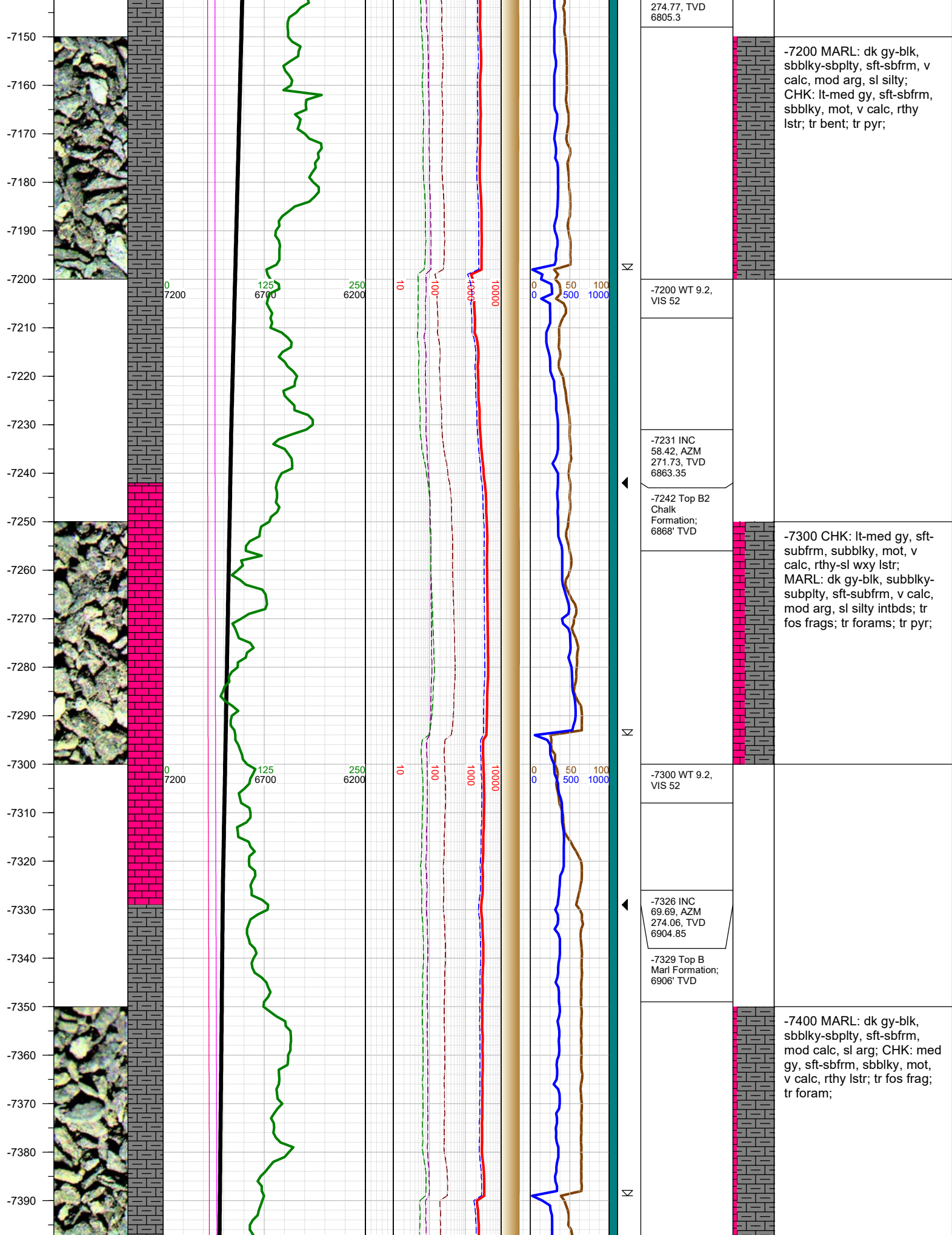






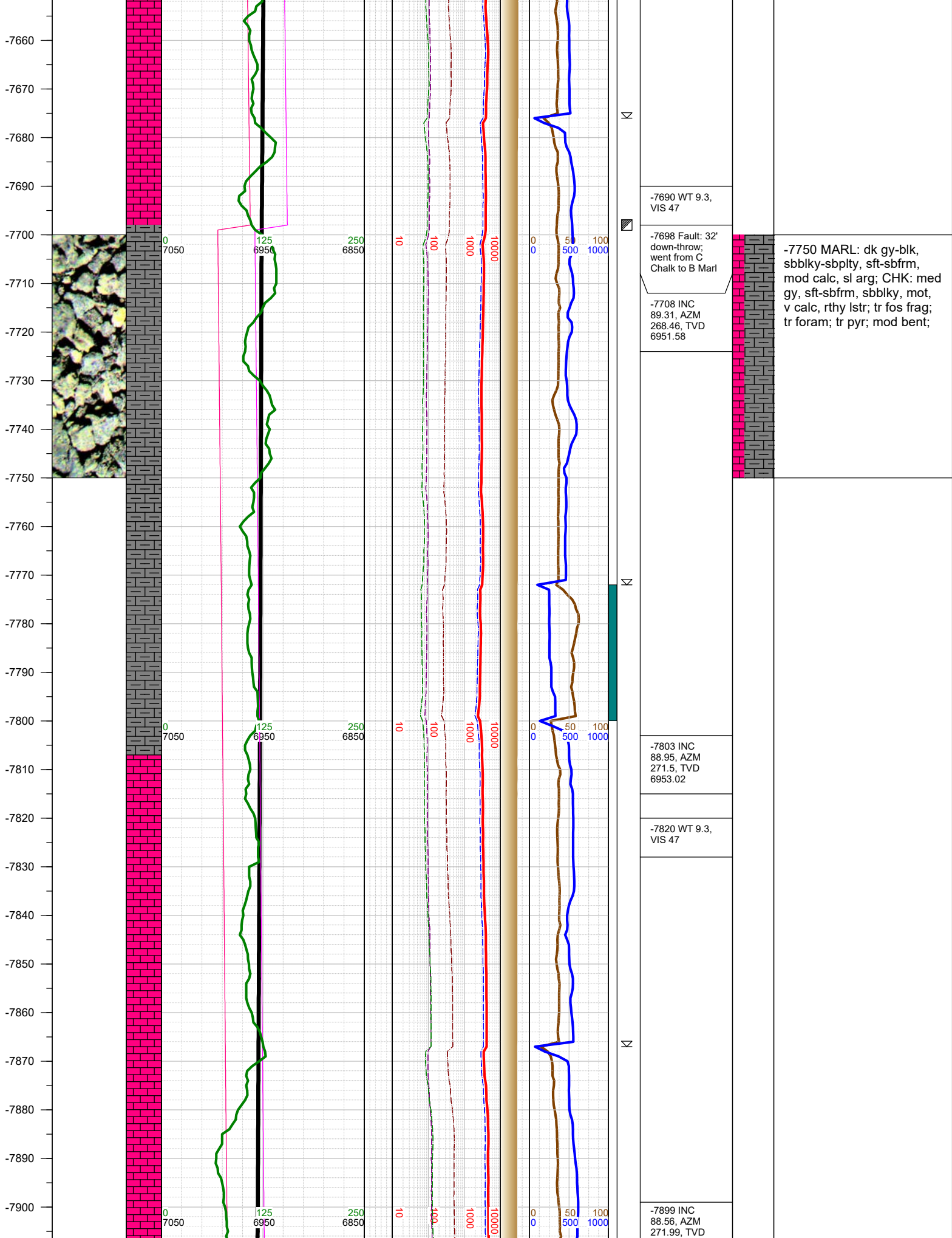


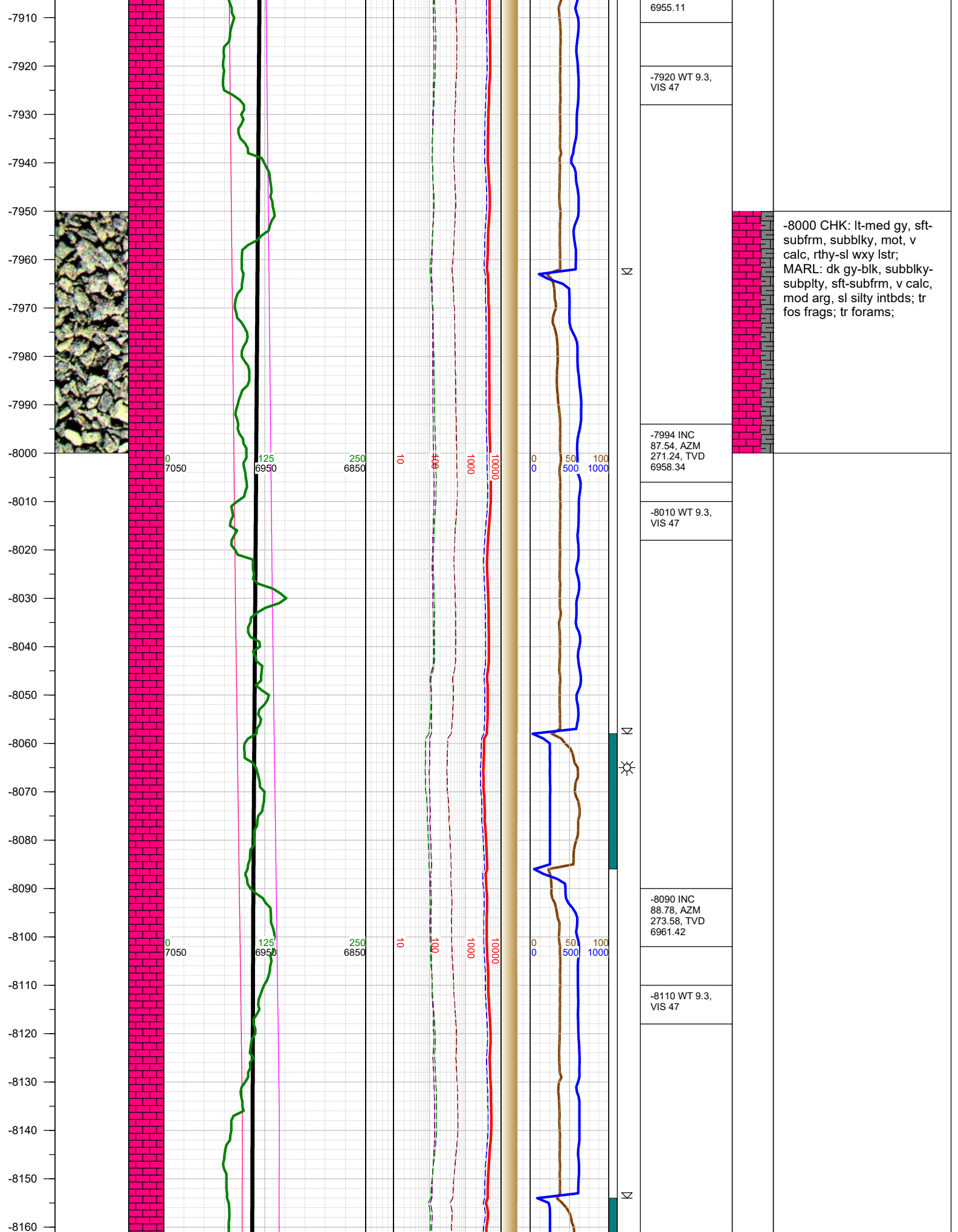


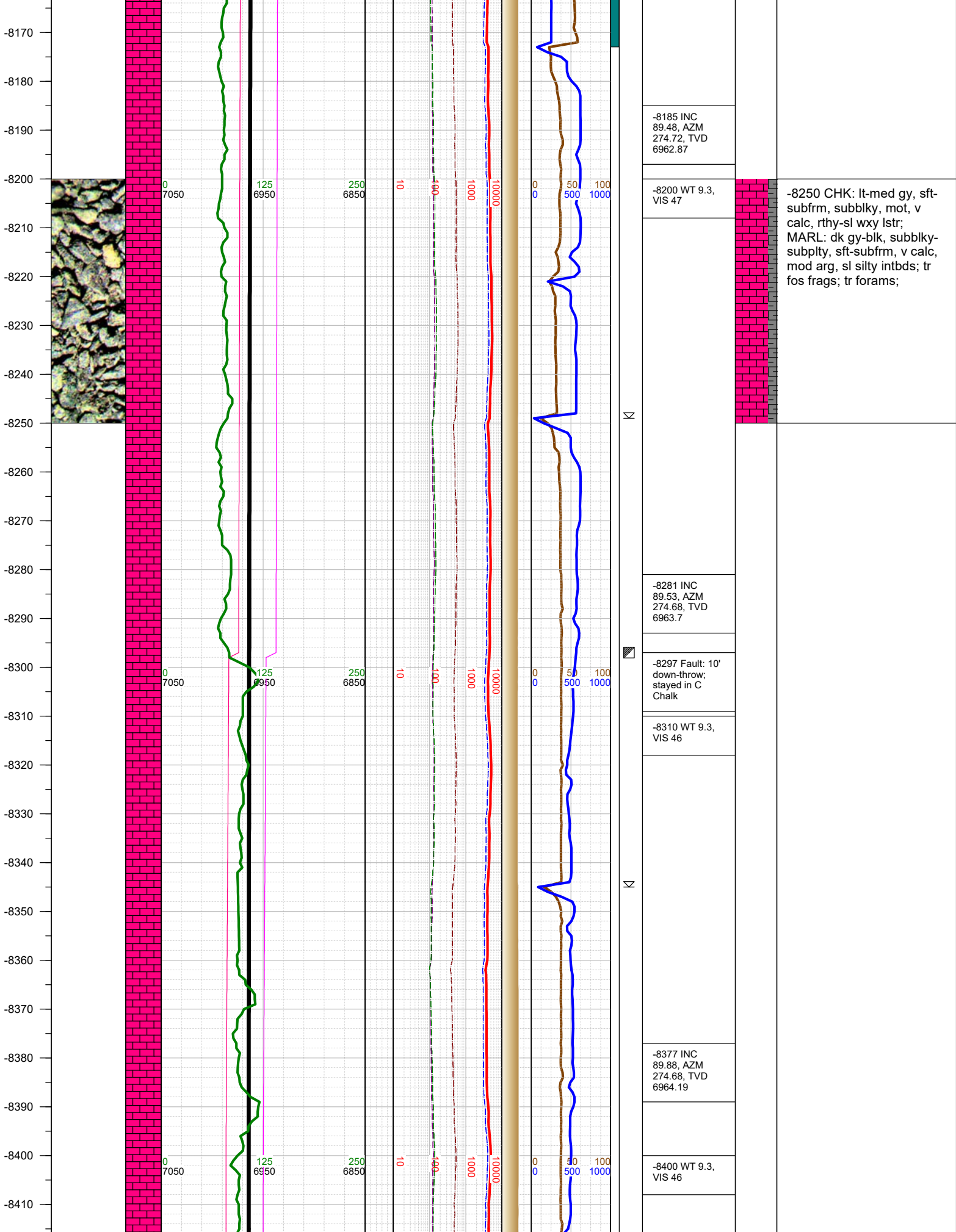




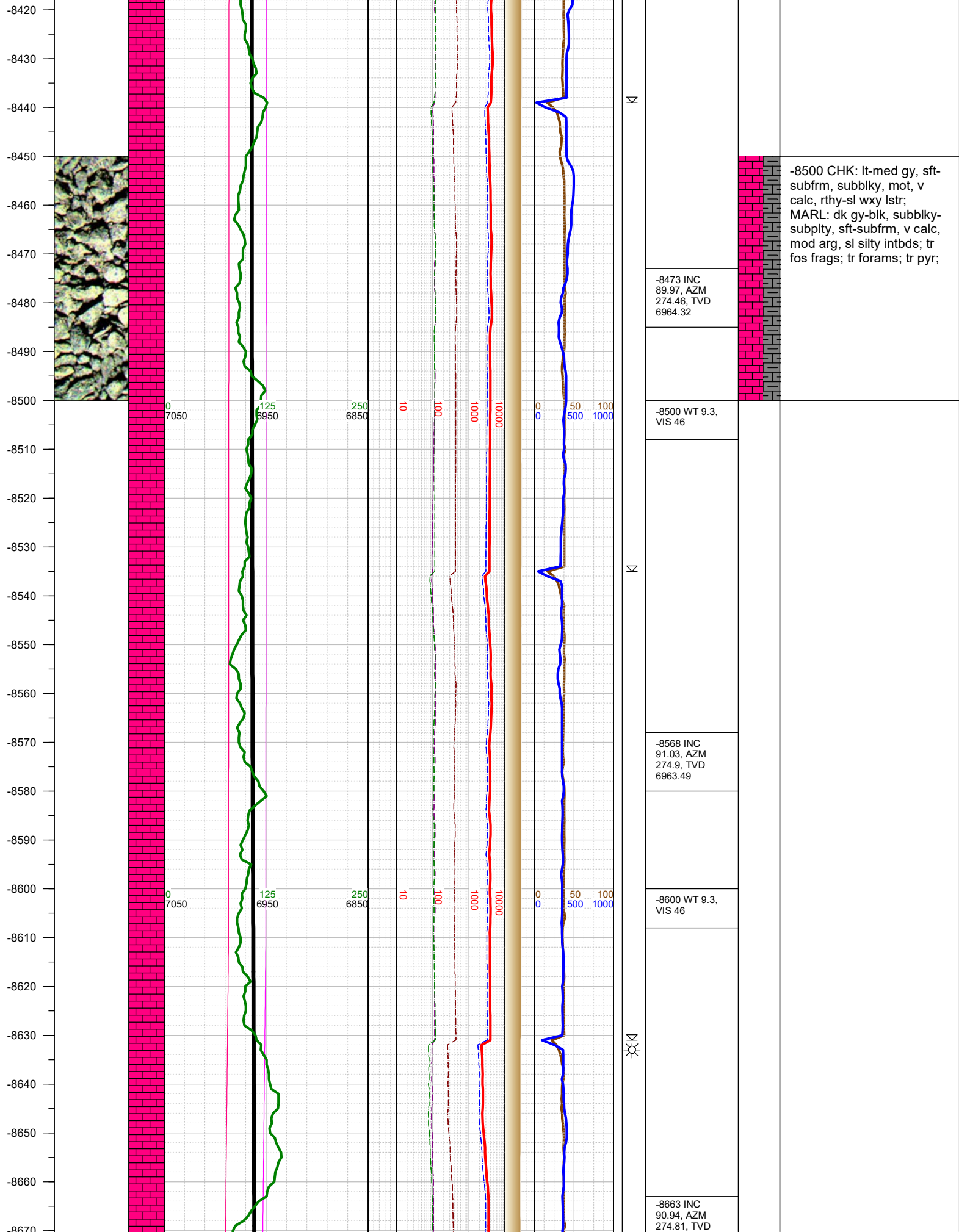


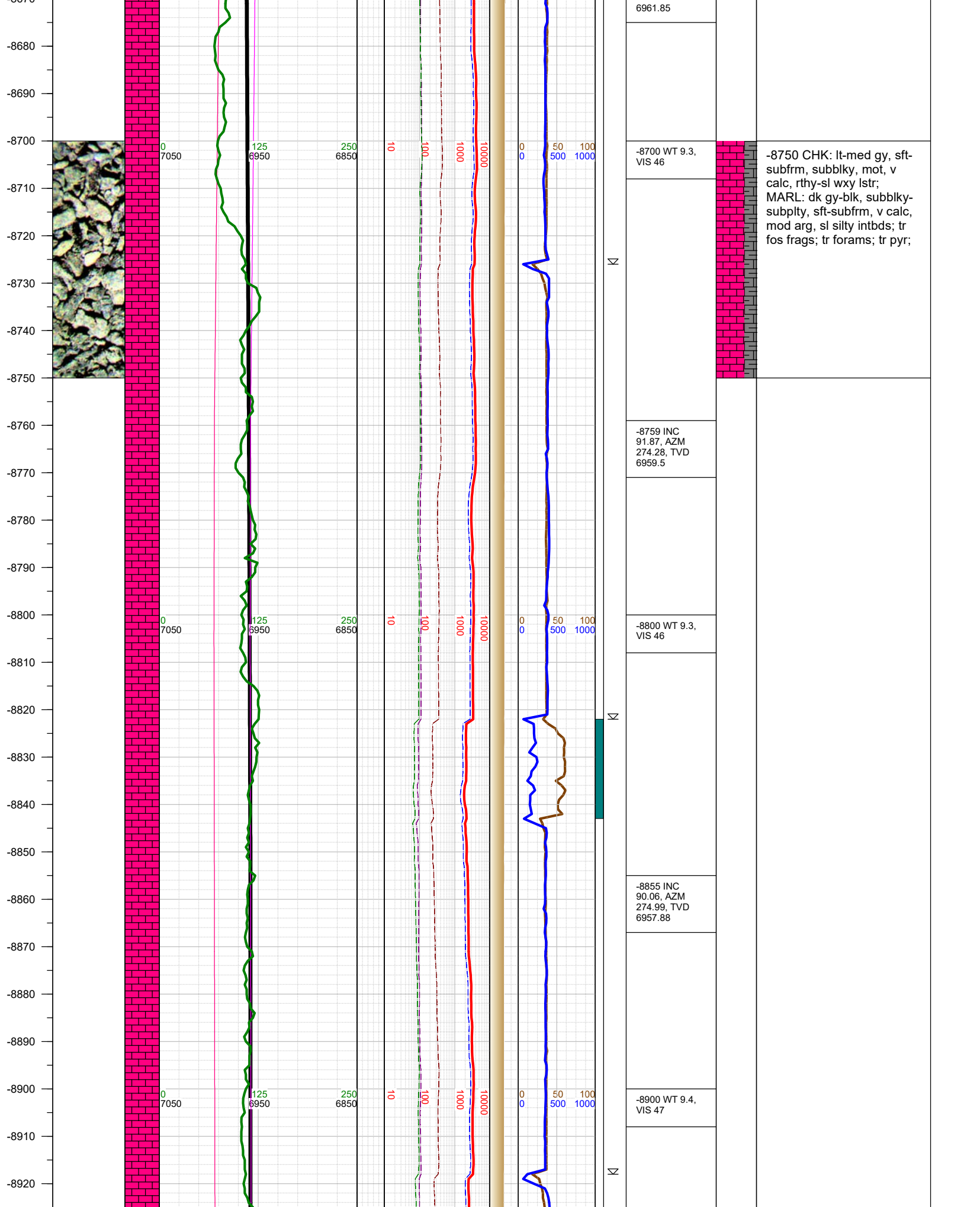


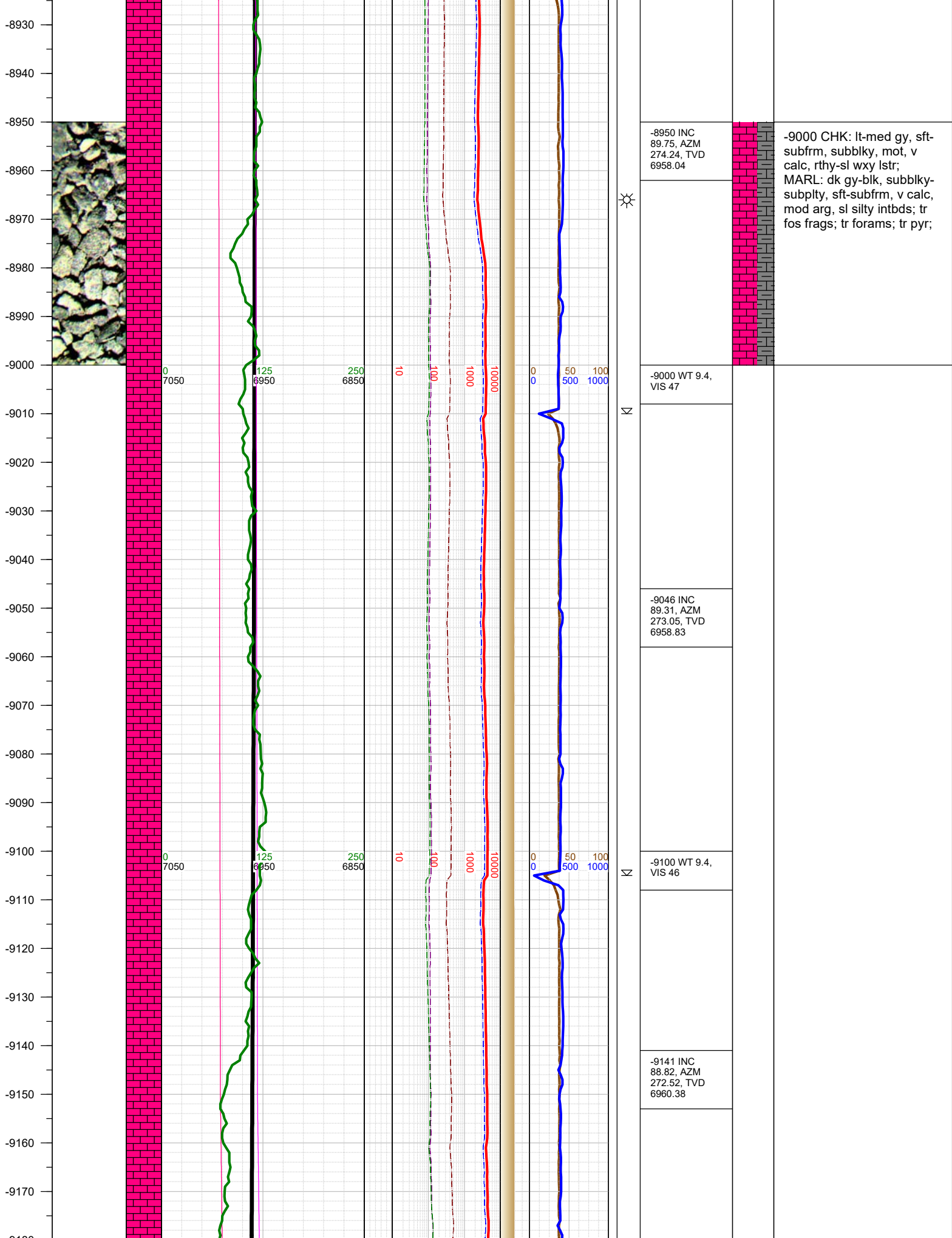




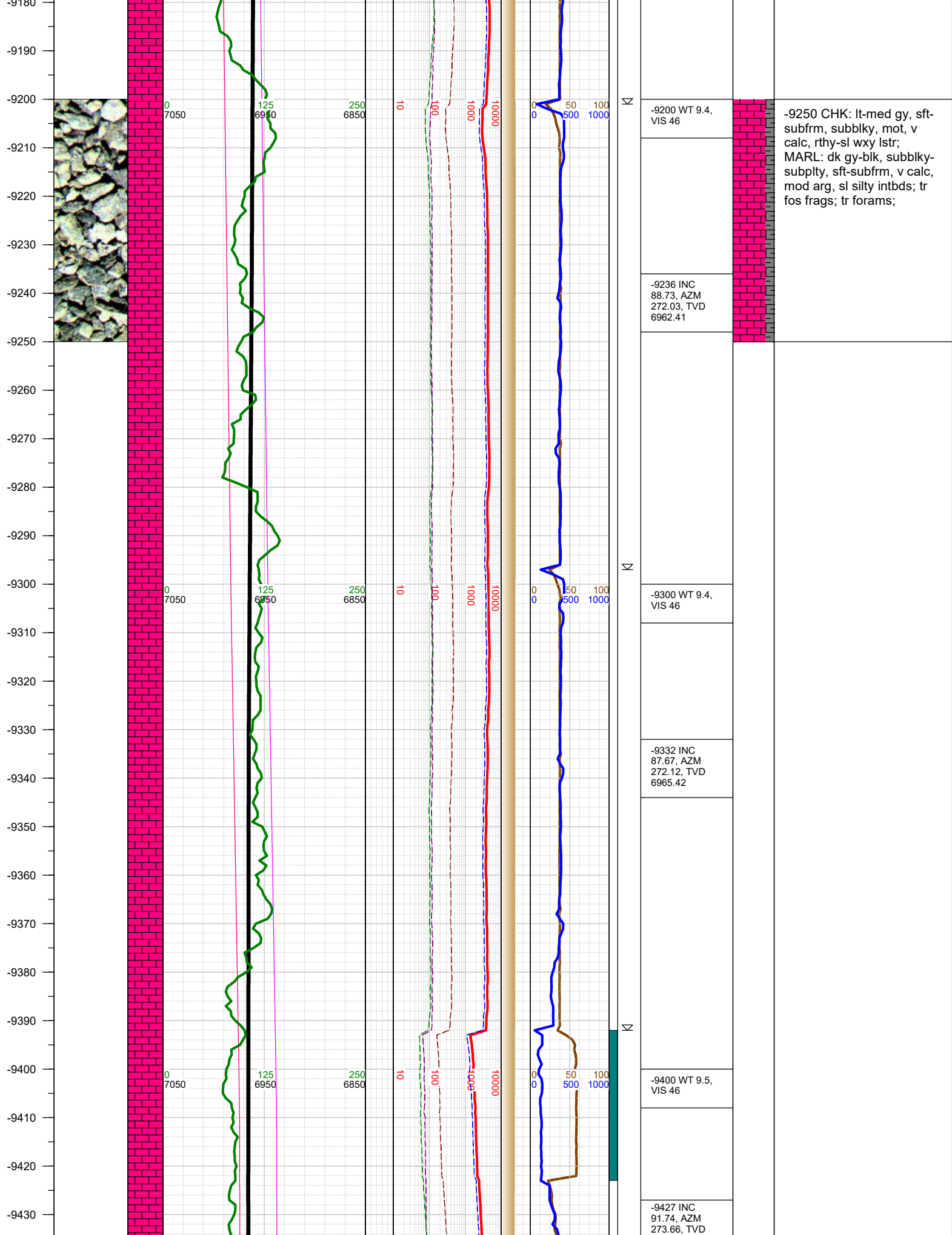




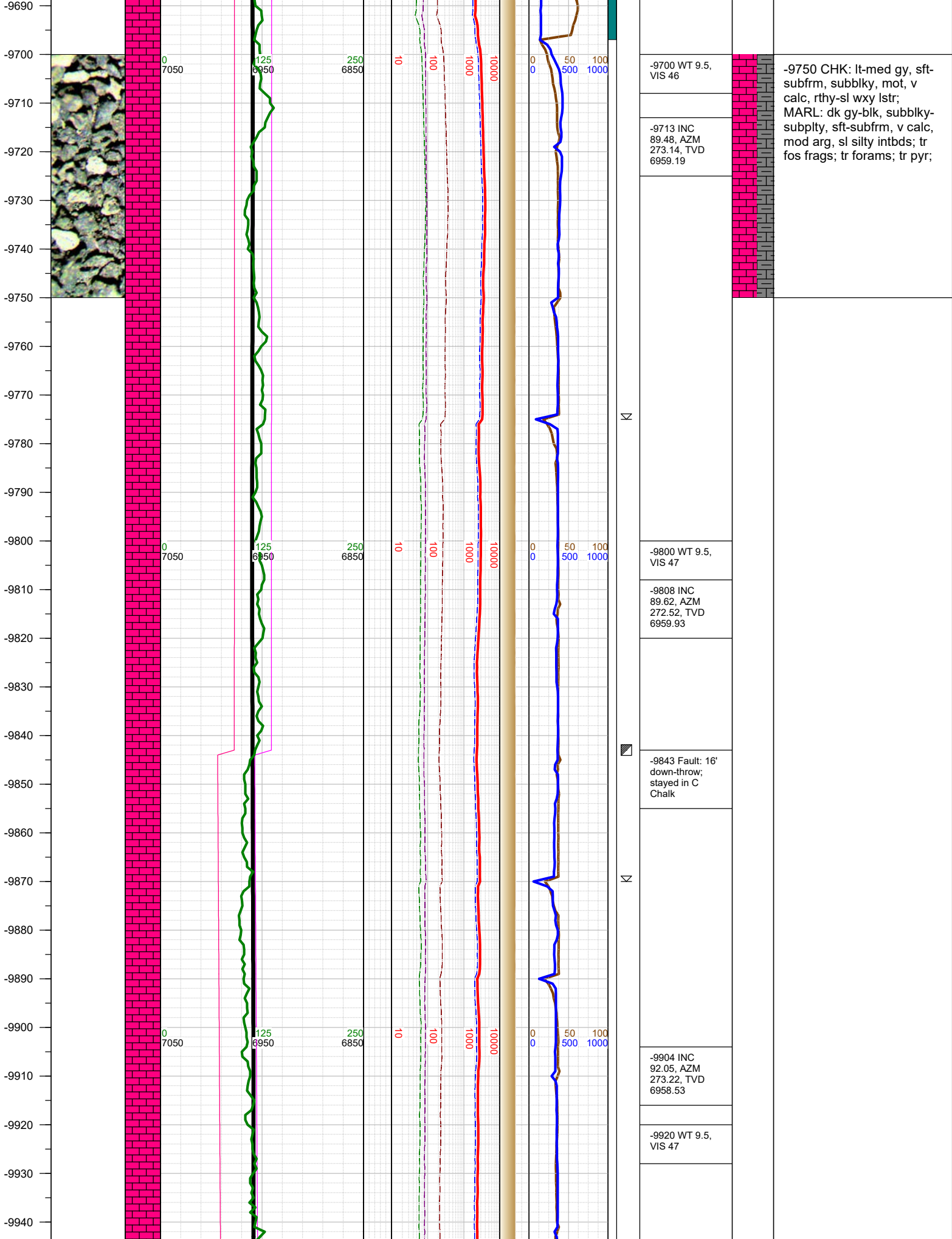




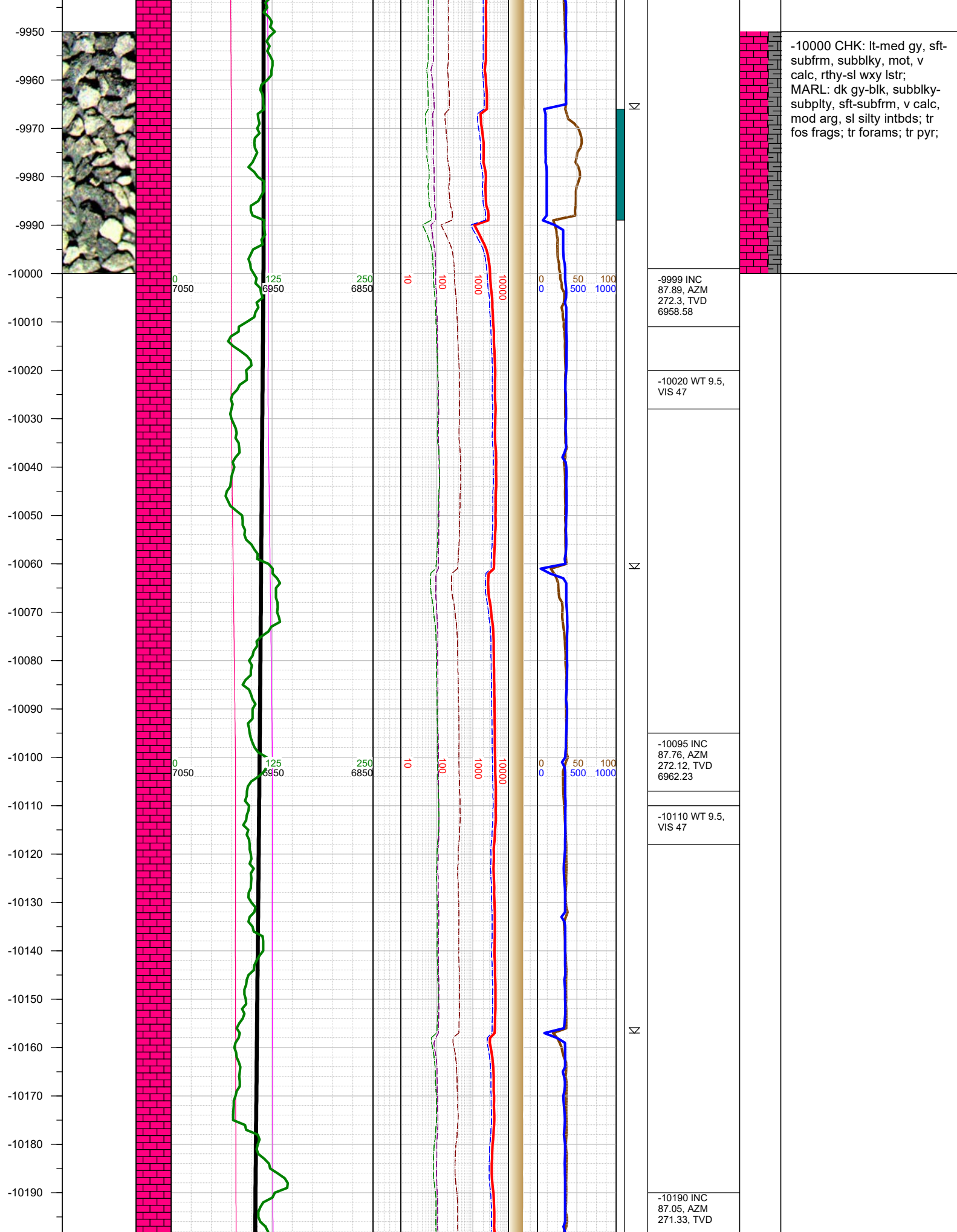


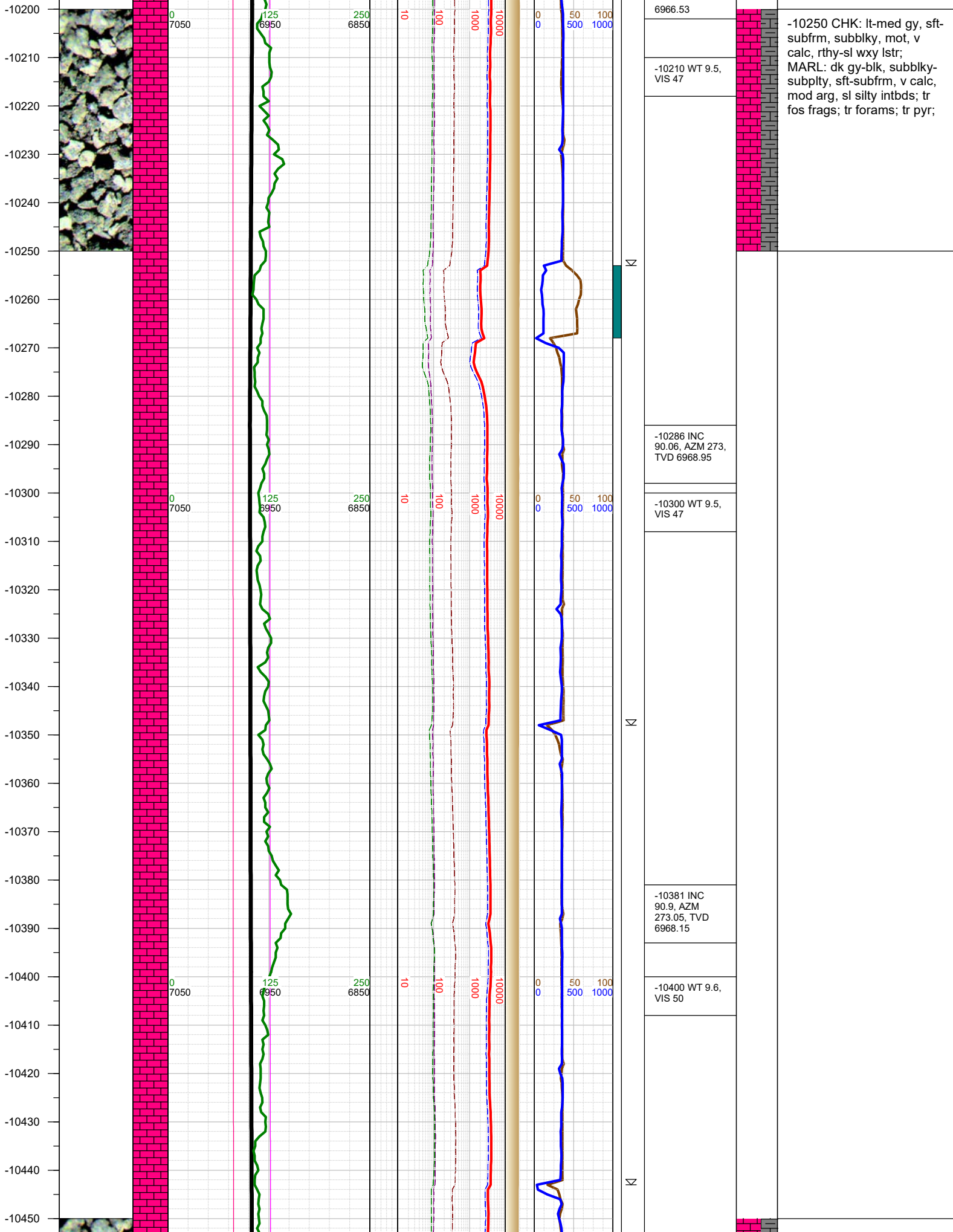




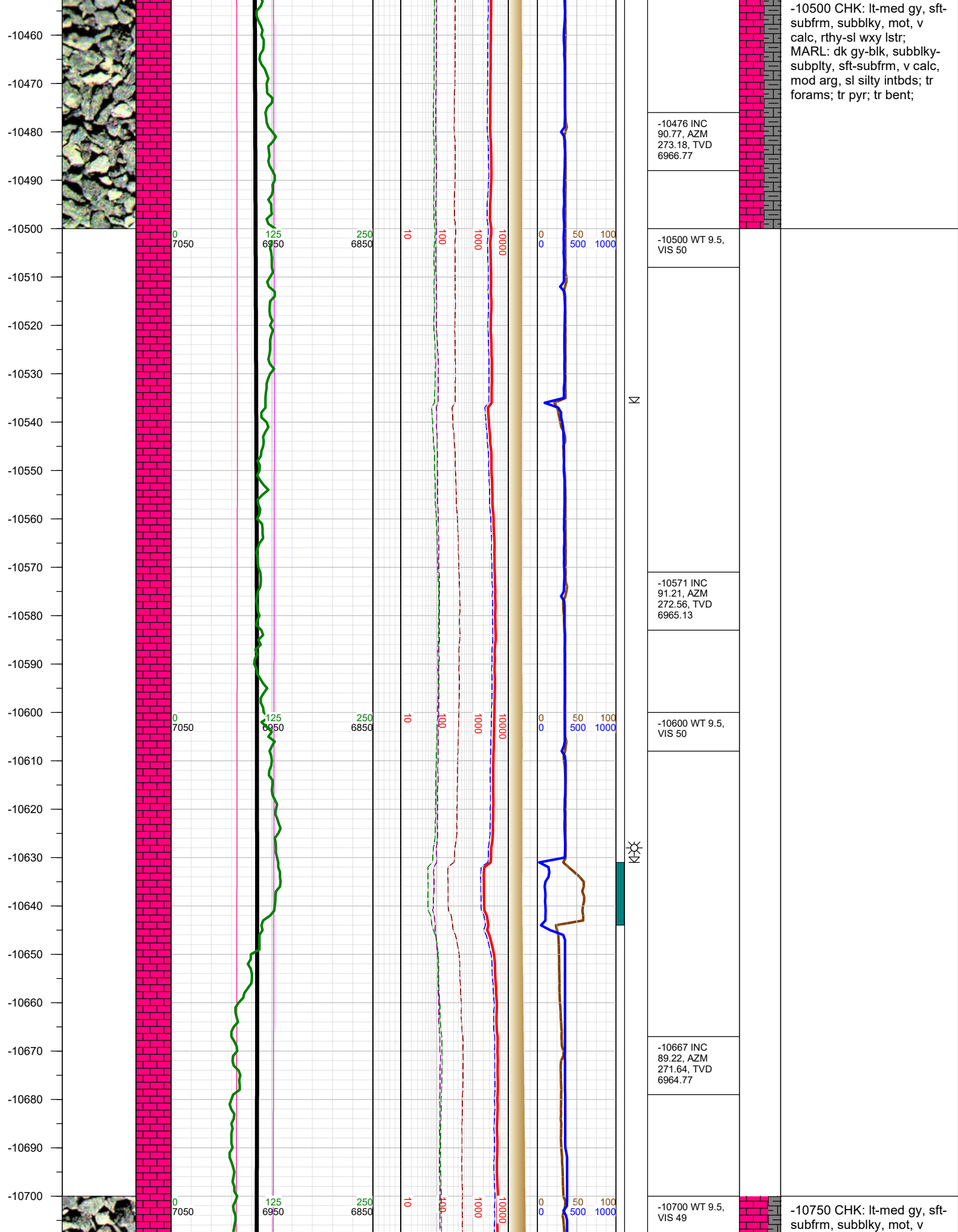




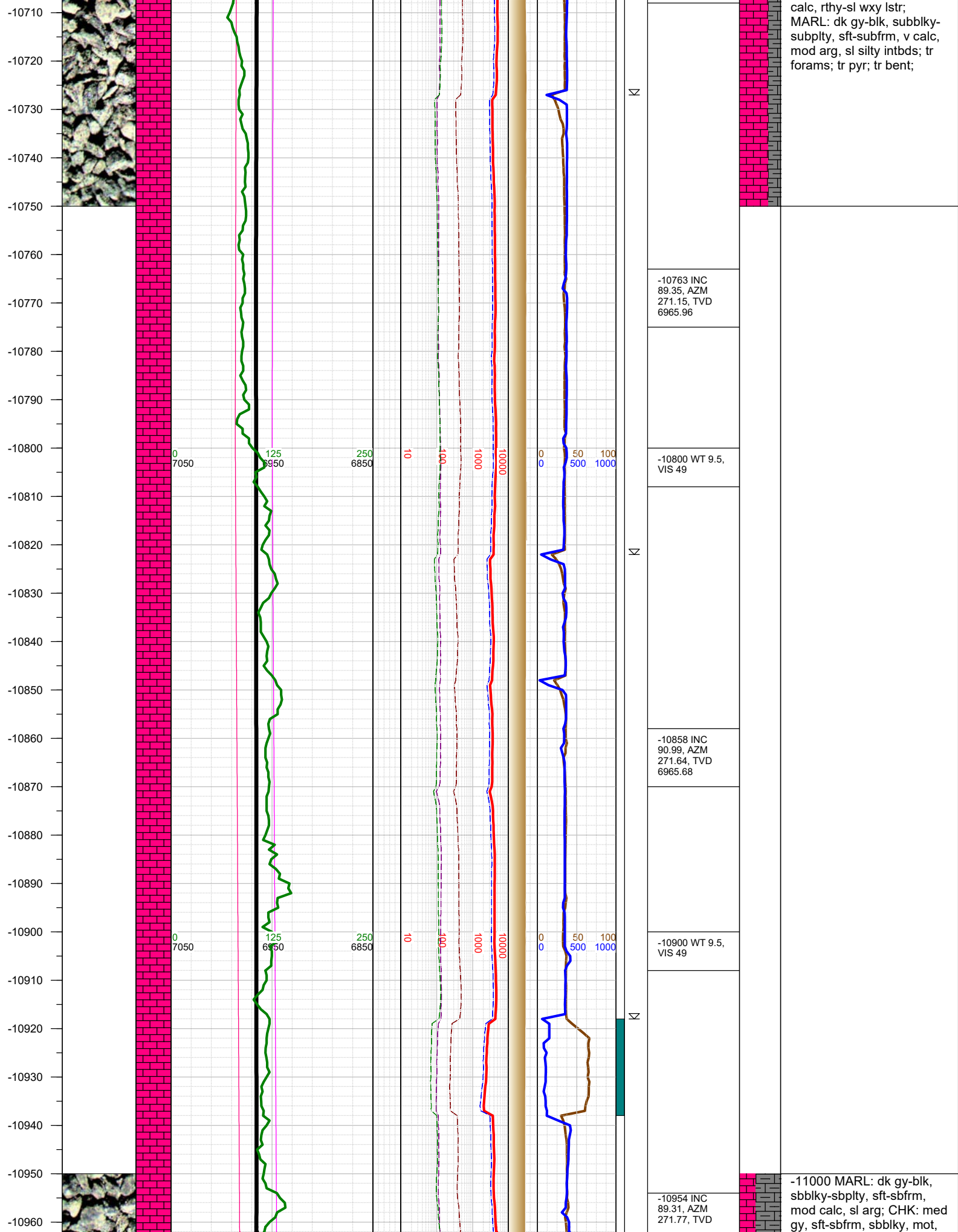


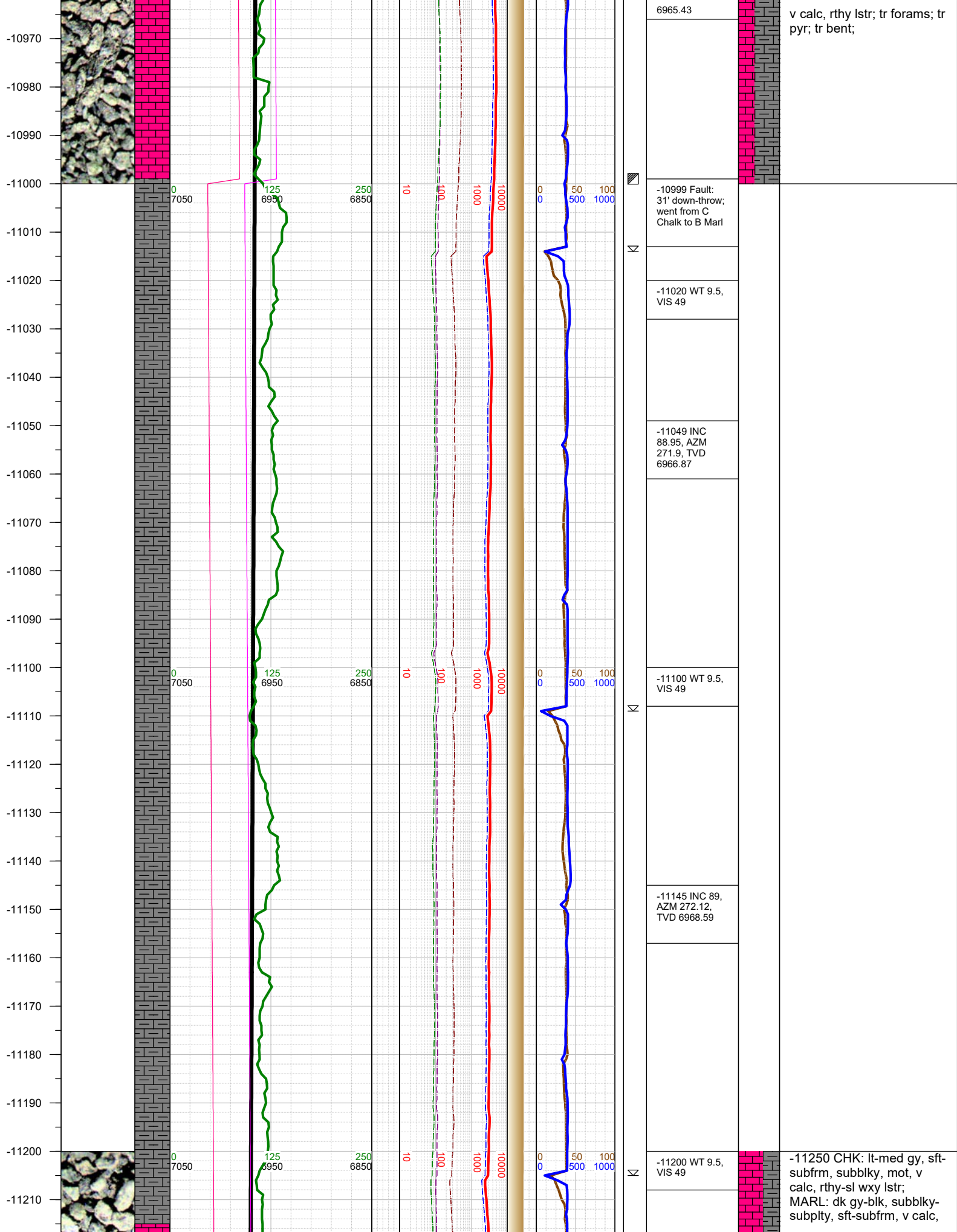


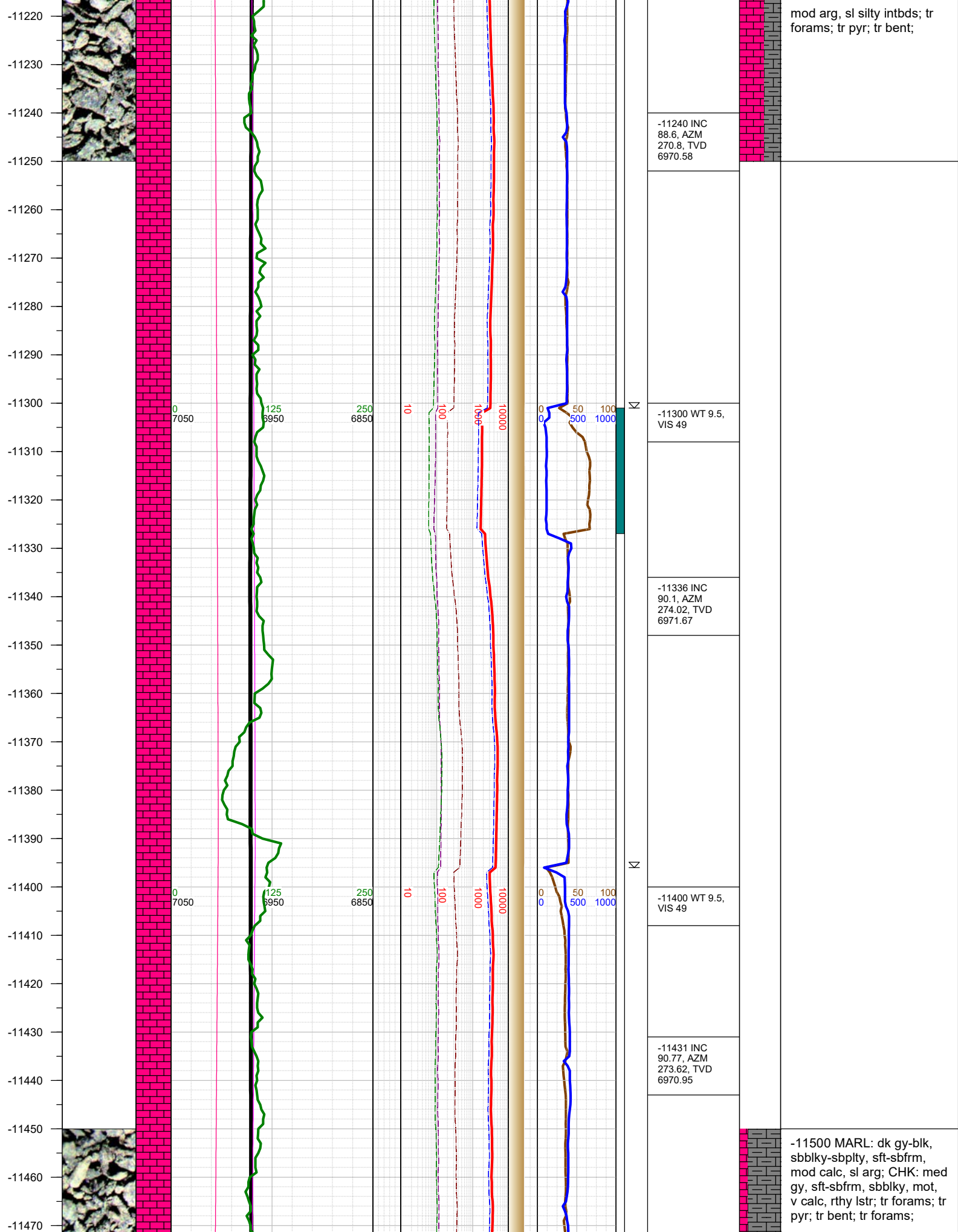
-10250 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg, sl silty intbds; tr fos frags; tr forams; tr pyr;



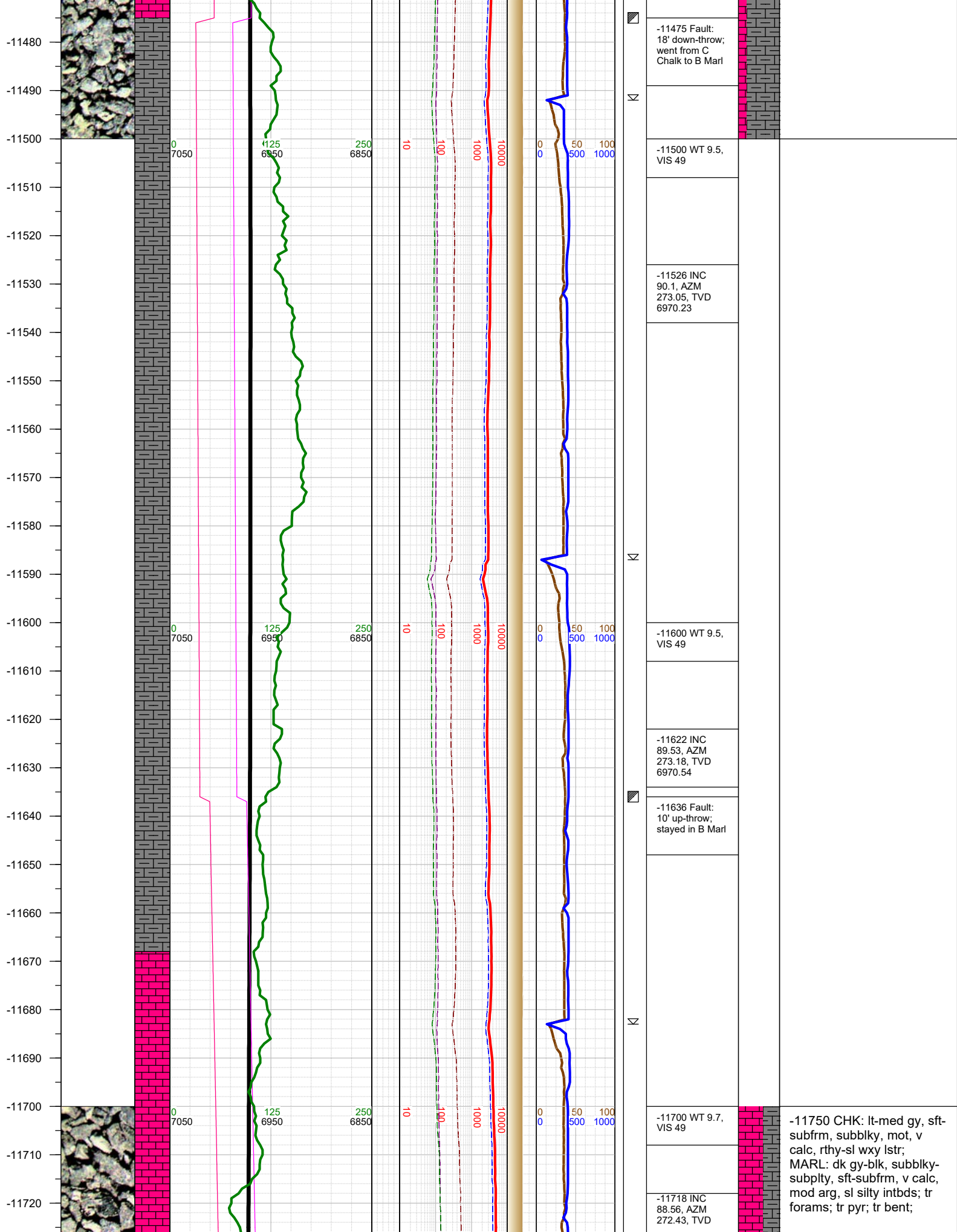


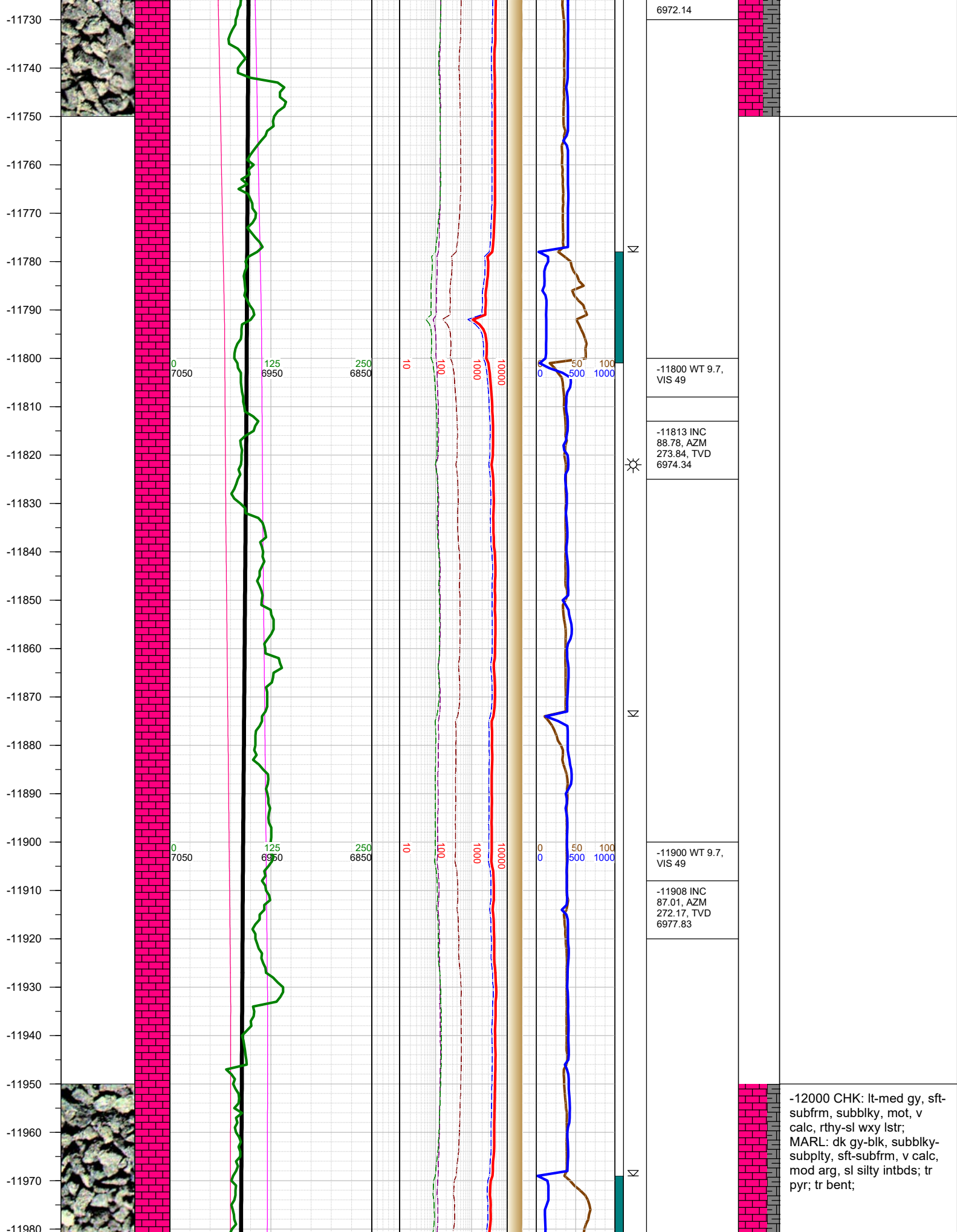


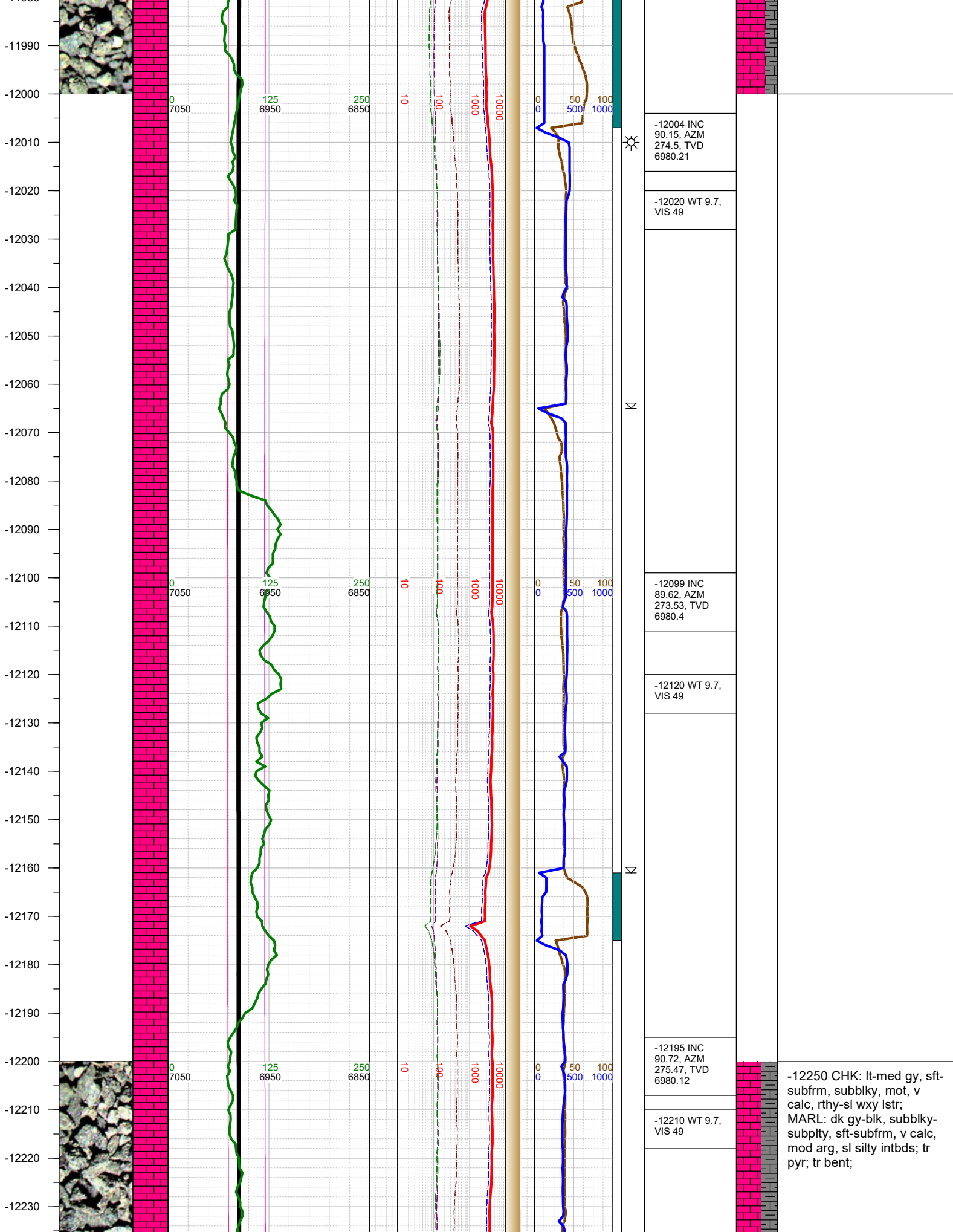






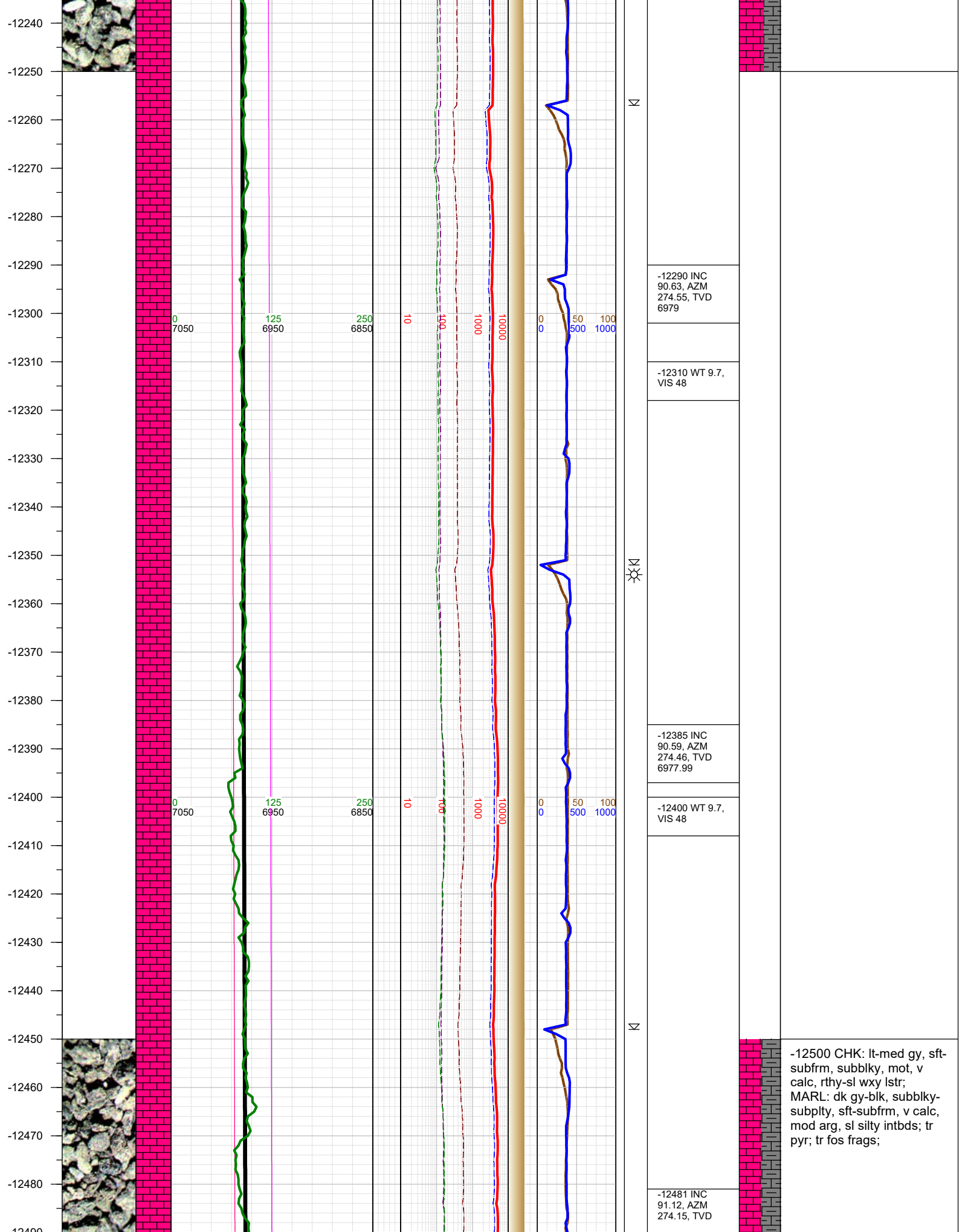


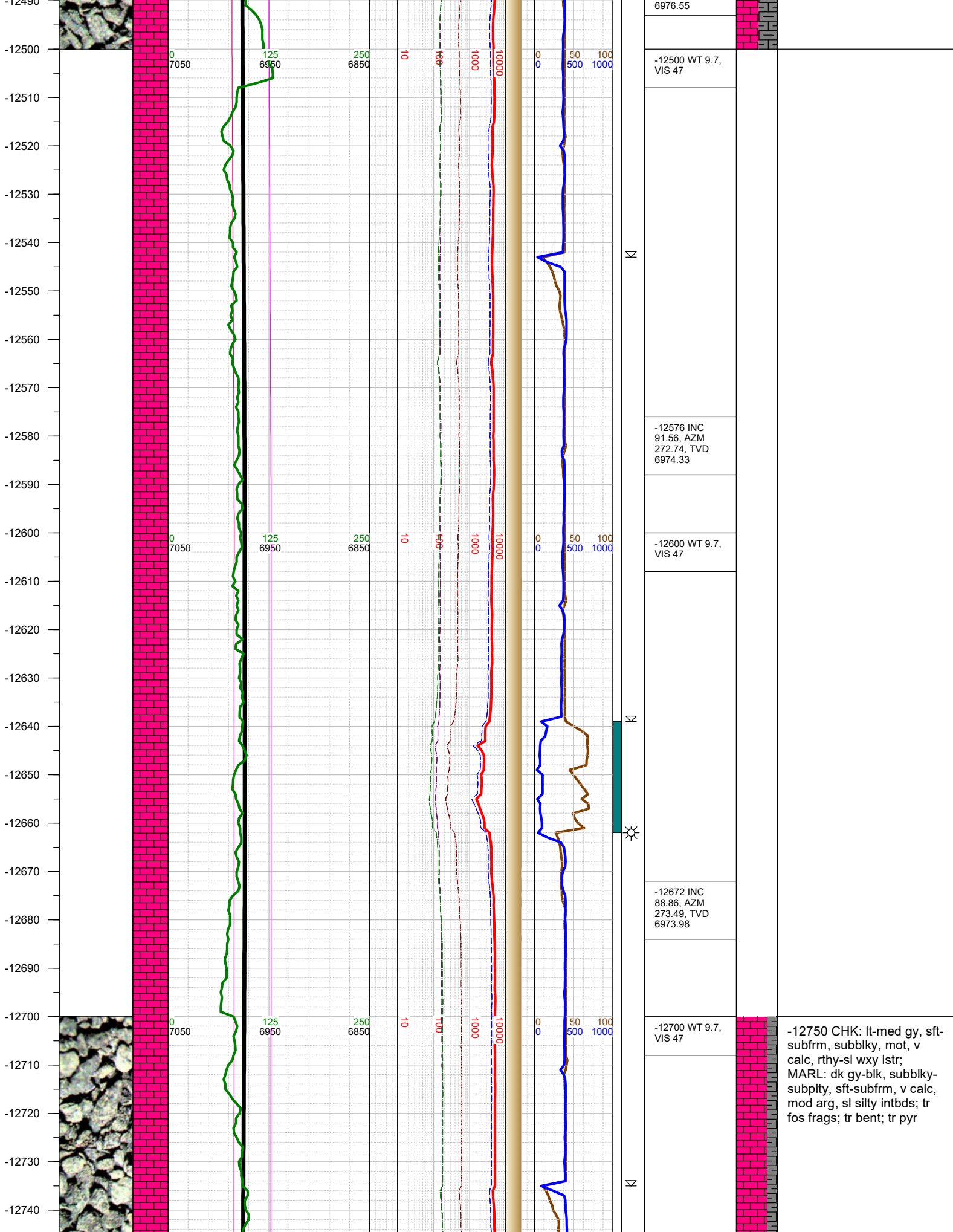




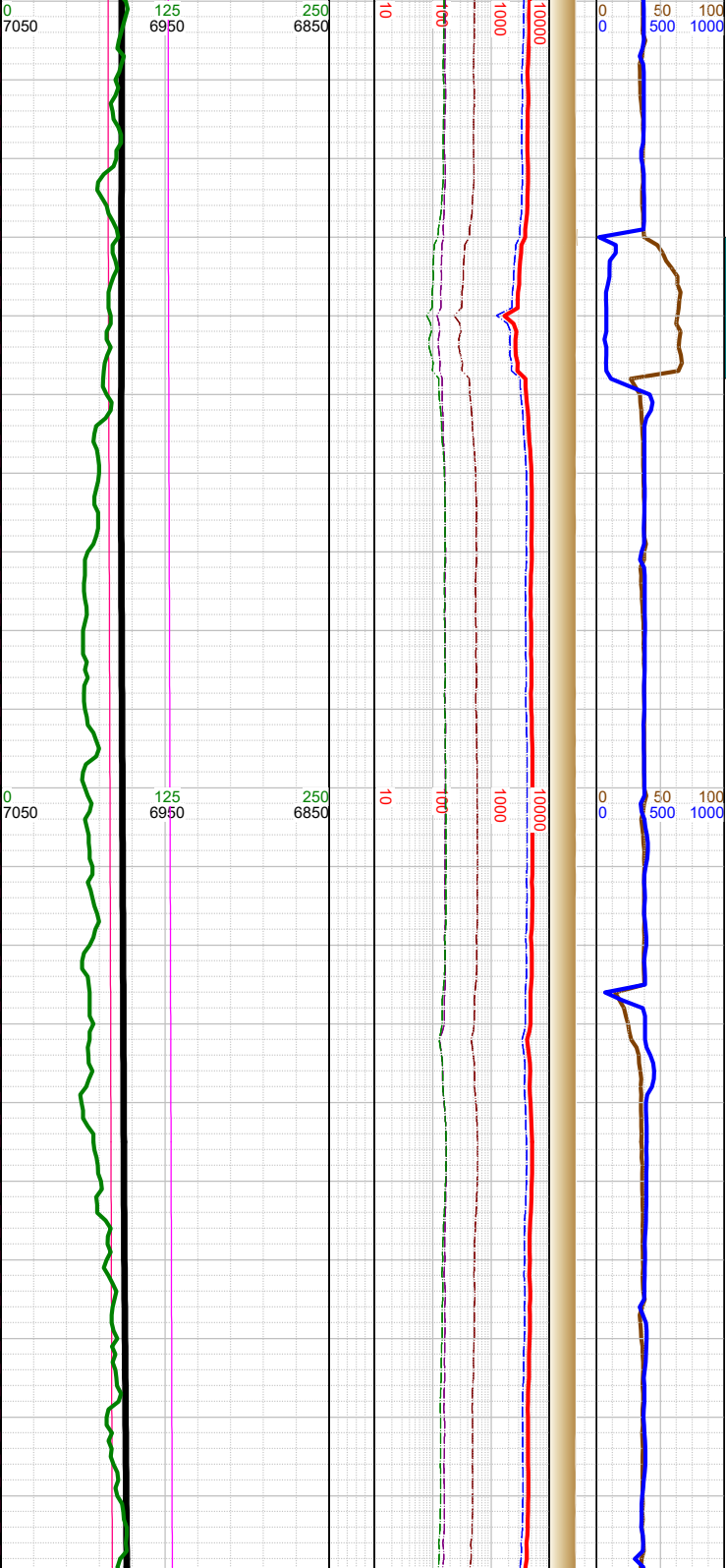
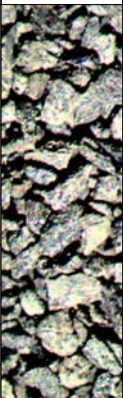
-12250 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subply, sft-subfrm, v calc, mod arg, sl silty intbds; tr pyr; tr bent;







-12750  
-12760  
-12770  
-12780  
-12790  
-12800  
-12810  
-12820  
-12830  
-12840  
-12850  
-12860  
-12870  
-12880  
-12890  
-12900  
-12910  
-12920  
-12930  
-12940  
-12950  
-12960  
-12970  
-12980  
-12990



Σ

Σ

-12767 INC  
88.51, AZM  
273.22, TVD  
6976.16

-12800 WT 9.7,  
VIS 47

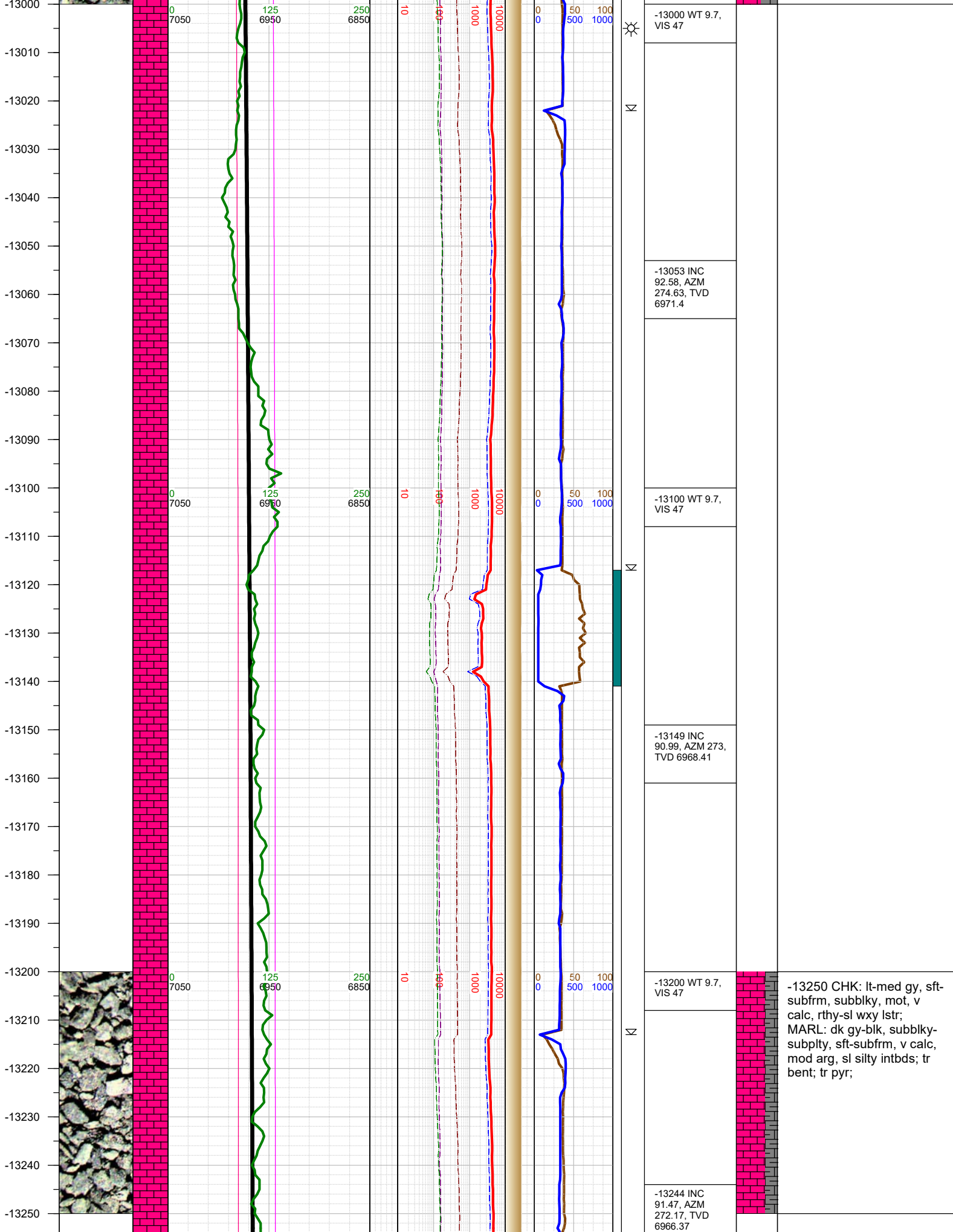
-12863 INC  
90.59, AZM  
274.24, TVD  
6976.91

-12900 WT 9.7,  
VIS 47

-12958 INC  
91.74, AZM  
274.1, TVD  
6974.98

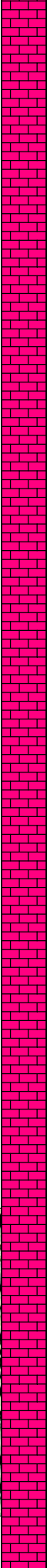
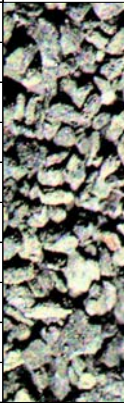
-13000 CHK: lt-med gy, sft-  
subfrm, subblky, mot, v  
calc, rthy-sl wxy lstr;  
MARL: dk gy-blk, subblky-  
subply, sft-subfrm, v calc,  
mod arg, sl silty intbds; tr  
bent; tr pyr;





-13250 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, sl silty intbds; tr bent; tr pyr;

-13260  
-13270  
-13280  
-13290  
-13300  
-13310  
-13320  
-13330  
-13340  
-13350  
-13360  
-13370  
-13380  
-13390  
-13400  
-13410  
-13420  
-13430  
-13440  
-13450  
-13460  
-13470  
-13480  
-13490  
-13500



0 7050

125 6850

250 6850

10

100

1000

10000

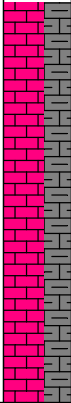
0 0 50 100  
0 500 1000

Σ

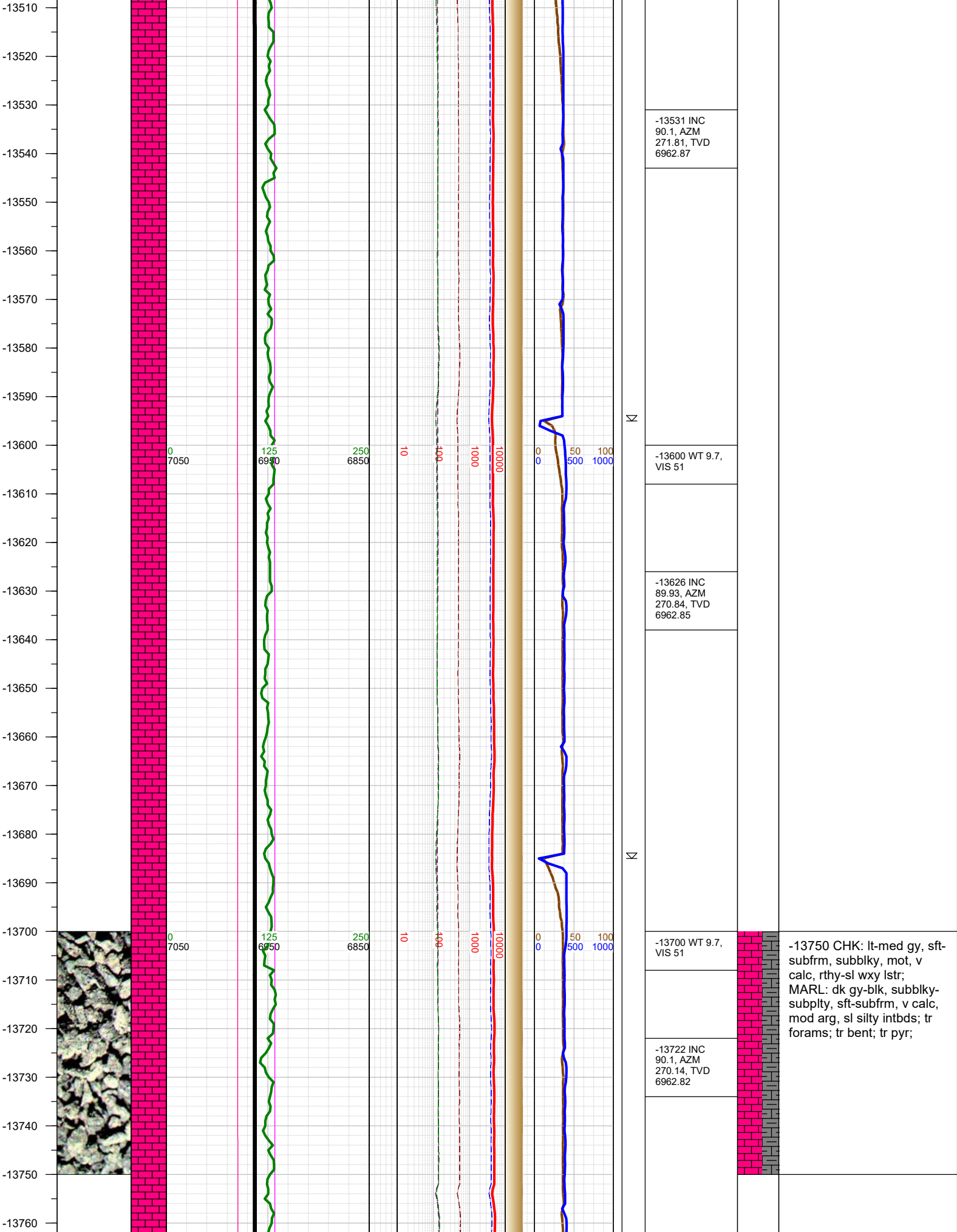
Σ

Σ

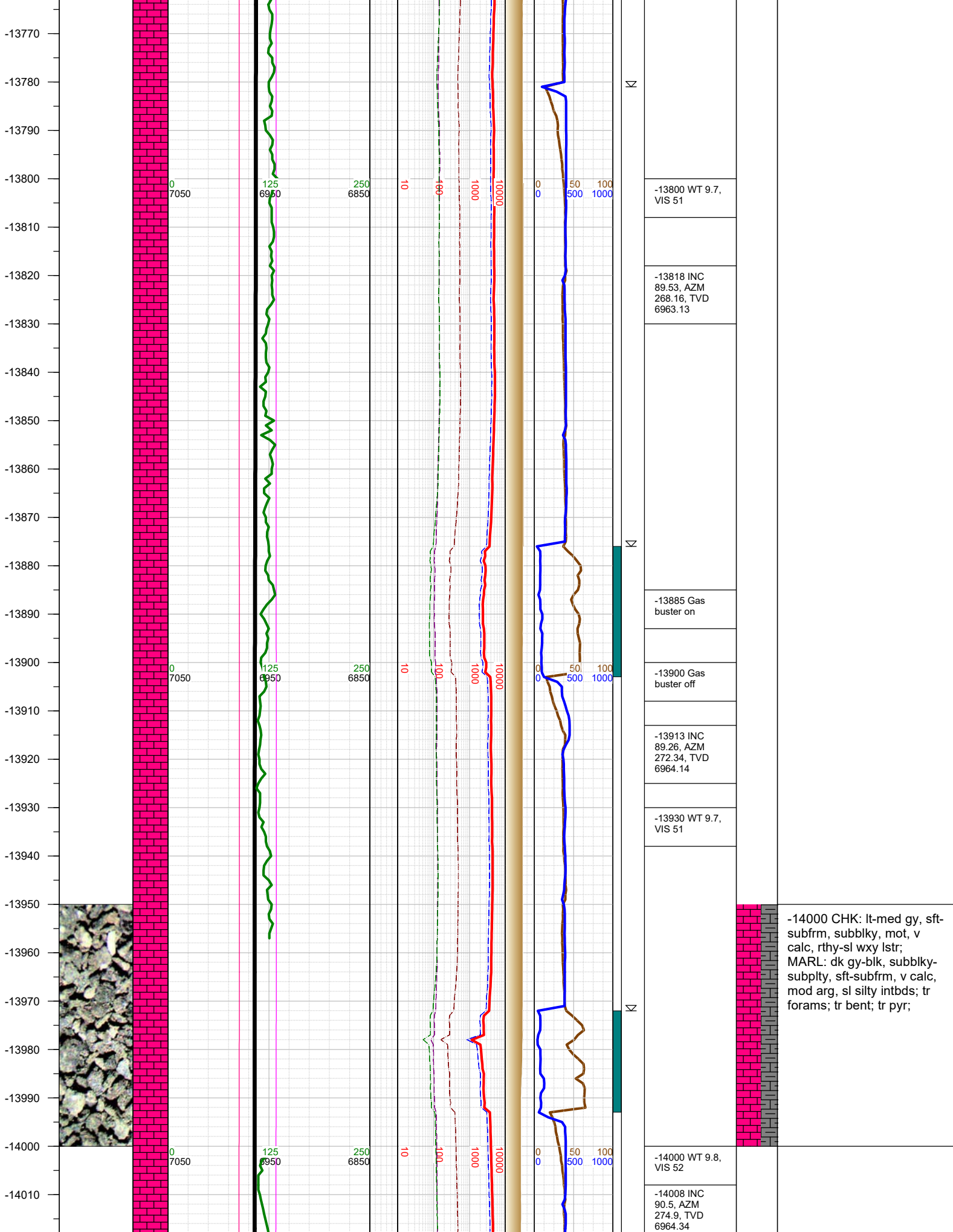
-13300 WT 9.7, VIS 48	
-13340 INC 90.54, AZM 274.15, TVD 6964.69	
-13400 WT 9.7, VIS 48	
-13435 INC 90.77, AZM 273.62, TVD 6963.6	
-13500 WT 9.7, VIS 48	



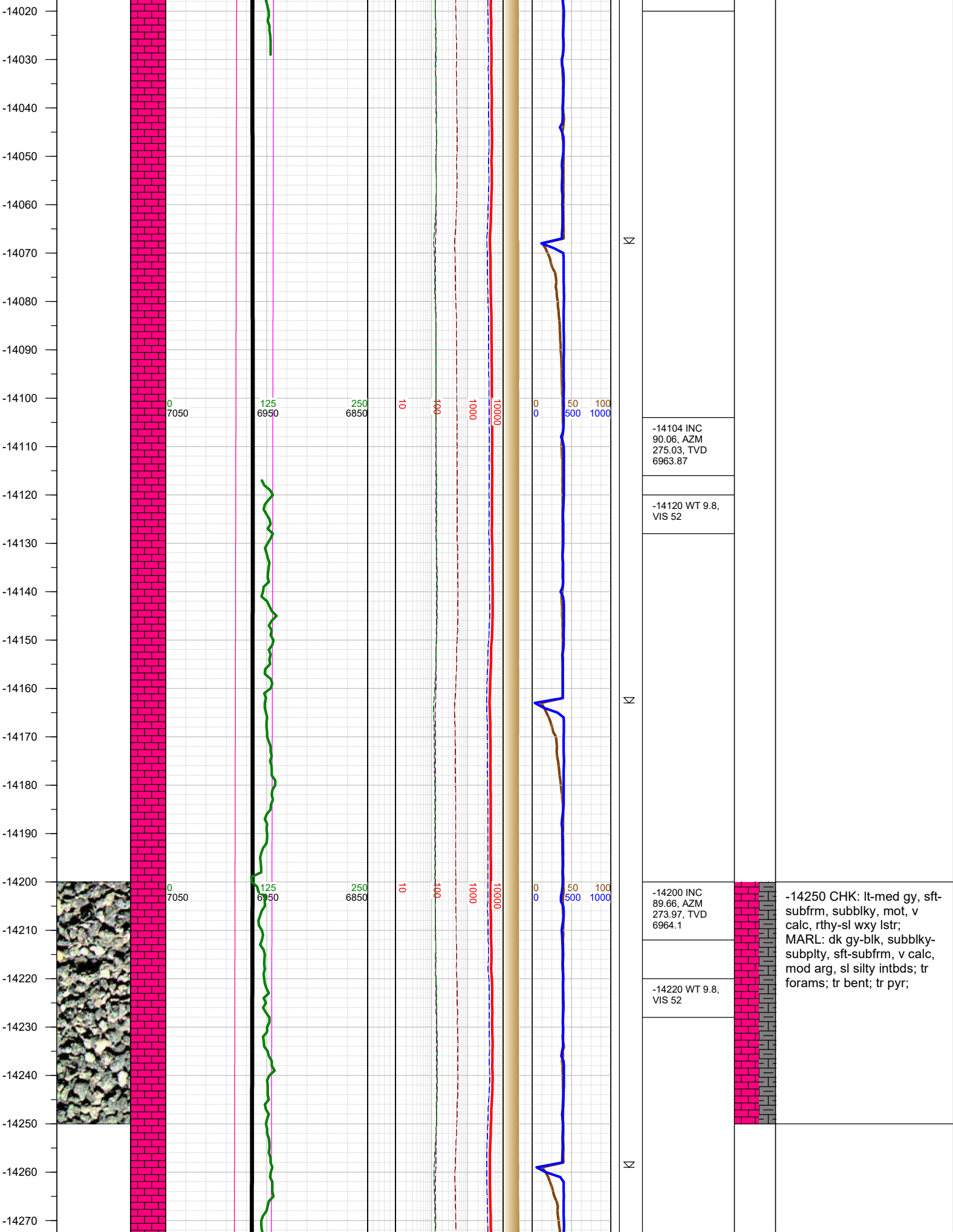
-13500 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subply, sft-subfrm, v calc, mod arg, sl silty intbds; tr forams; tr bent; tr pyr;

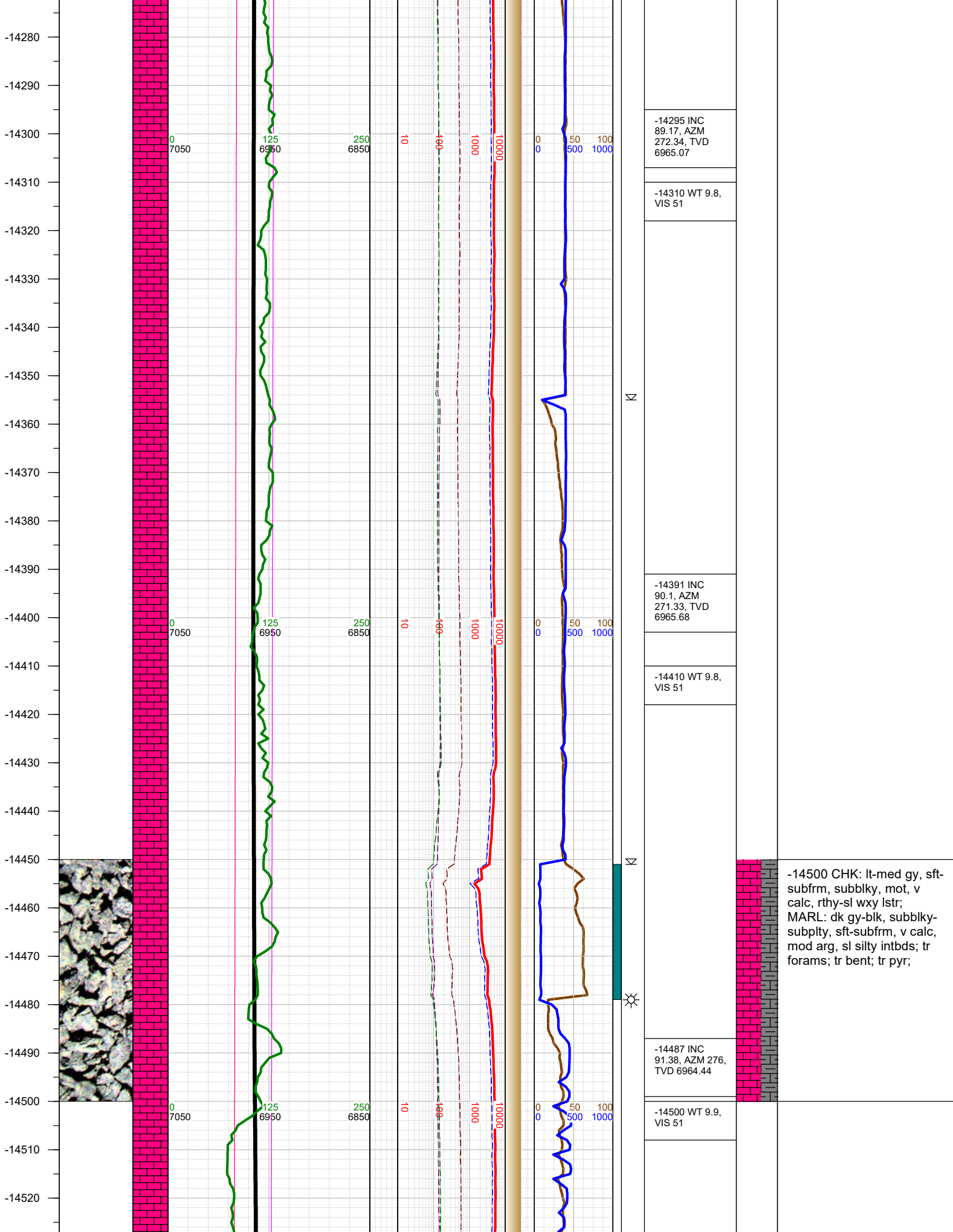






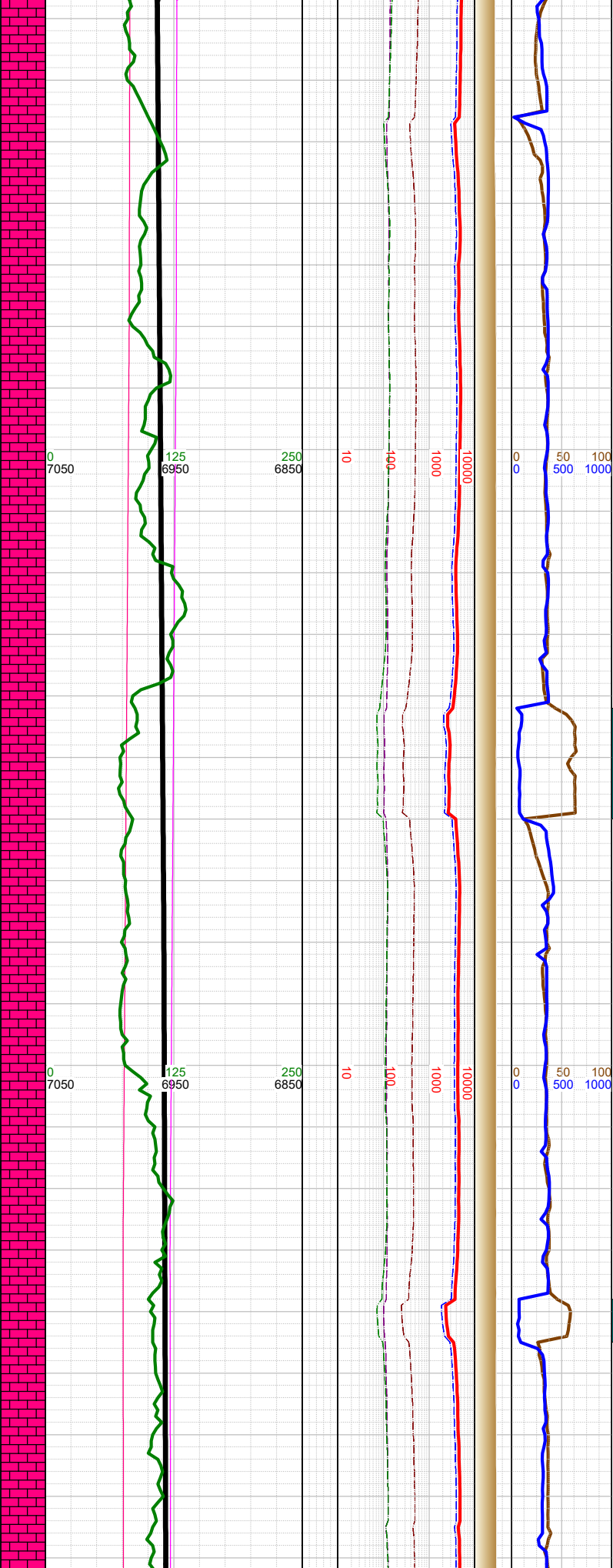
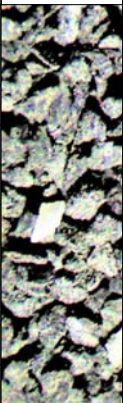
-14000 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg, sl silty intbds; tr forams; tr bent; tr pyr;



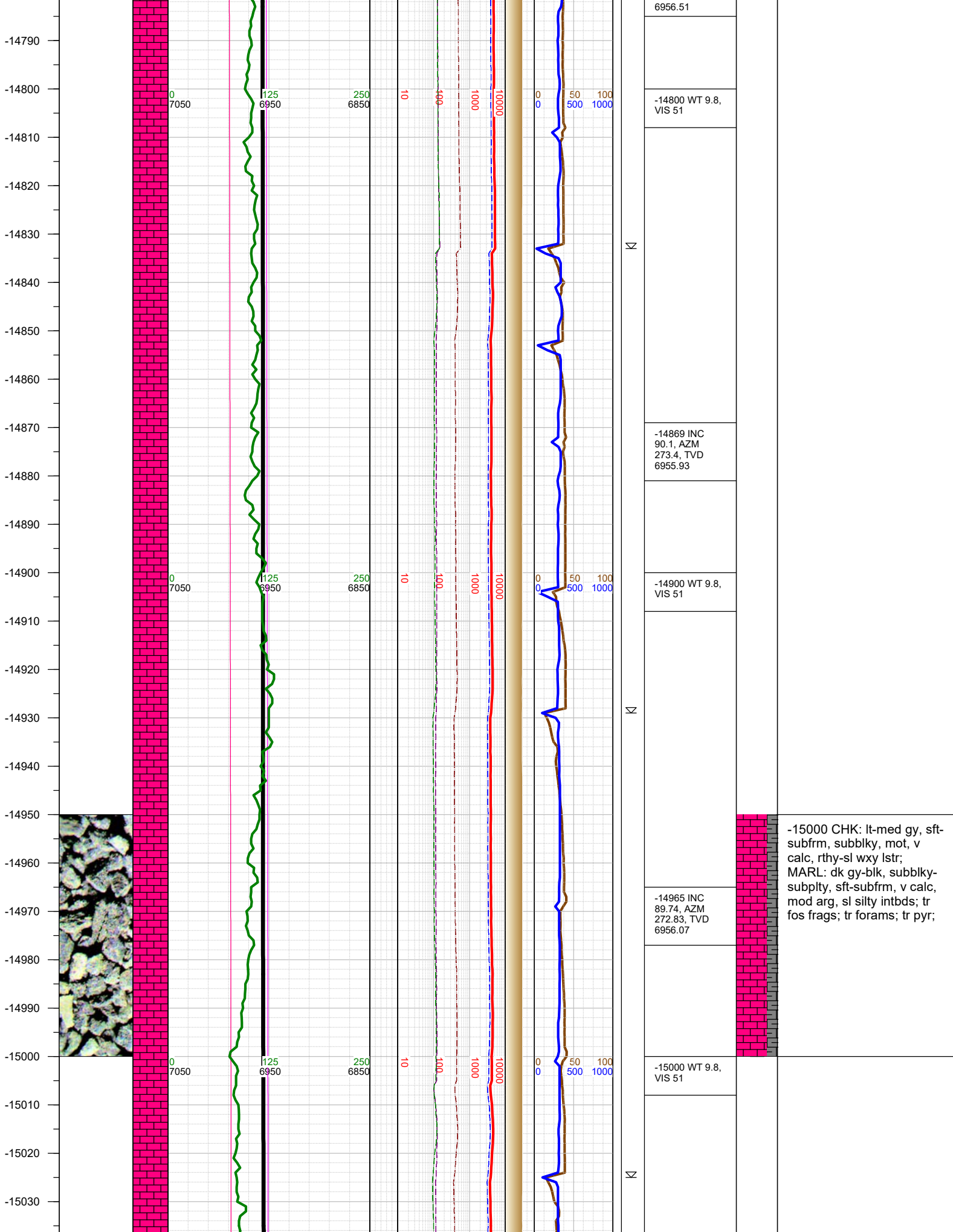


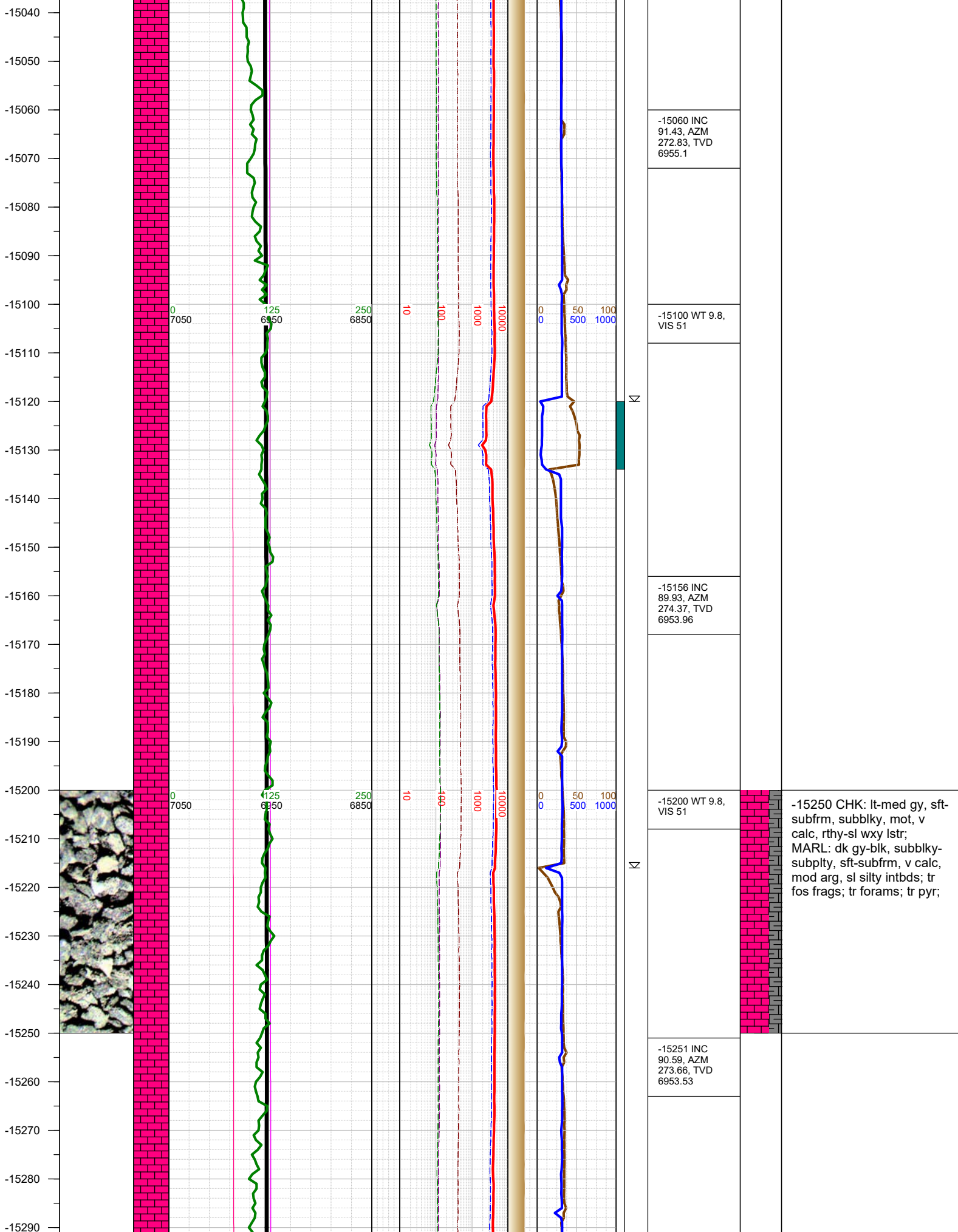


-14530  
-14540  
-14550  
-14560  
-14570  
-14580  
-14590  
-14600  
-14610  
-14620  
-14630  
-14640  
-14650  
-14660  
-14670  
-14680  
-14690  
-14700  
-14710  
-14720  
-14730  
-14740  
-14750  
-14760  
-14770  
-14780

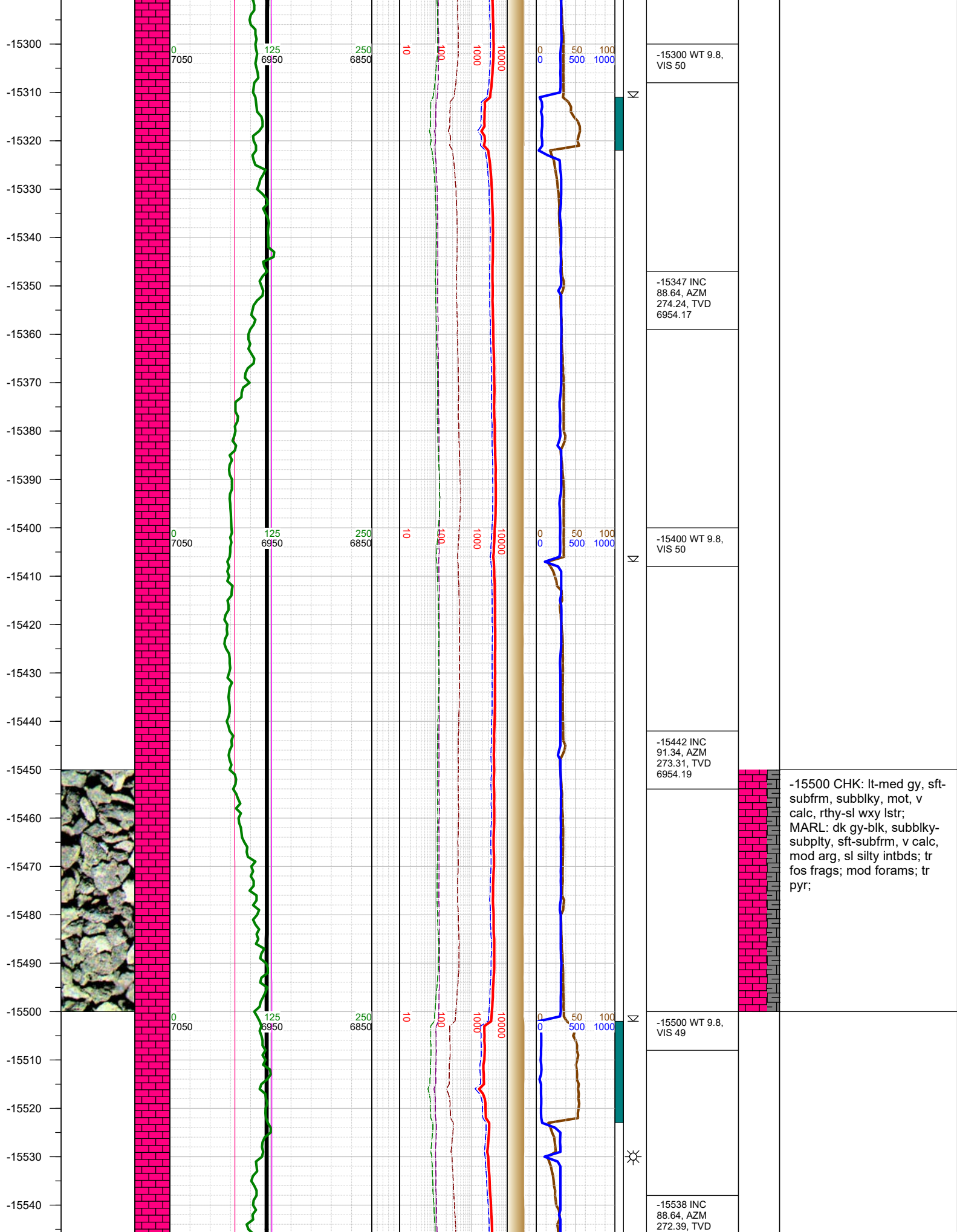


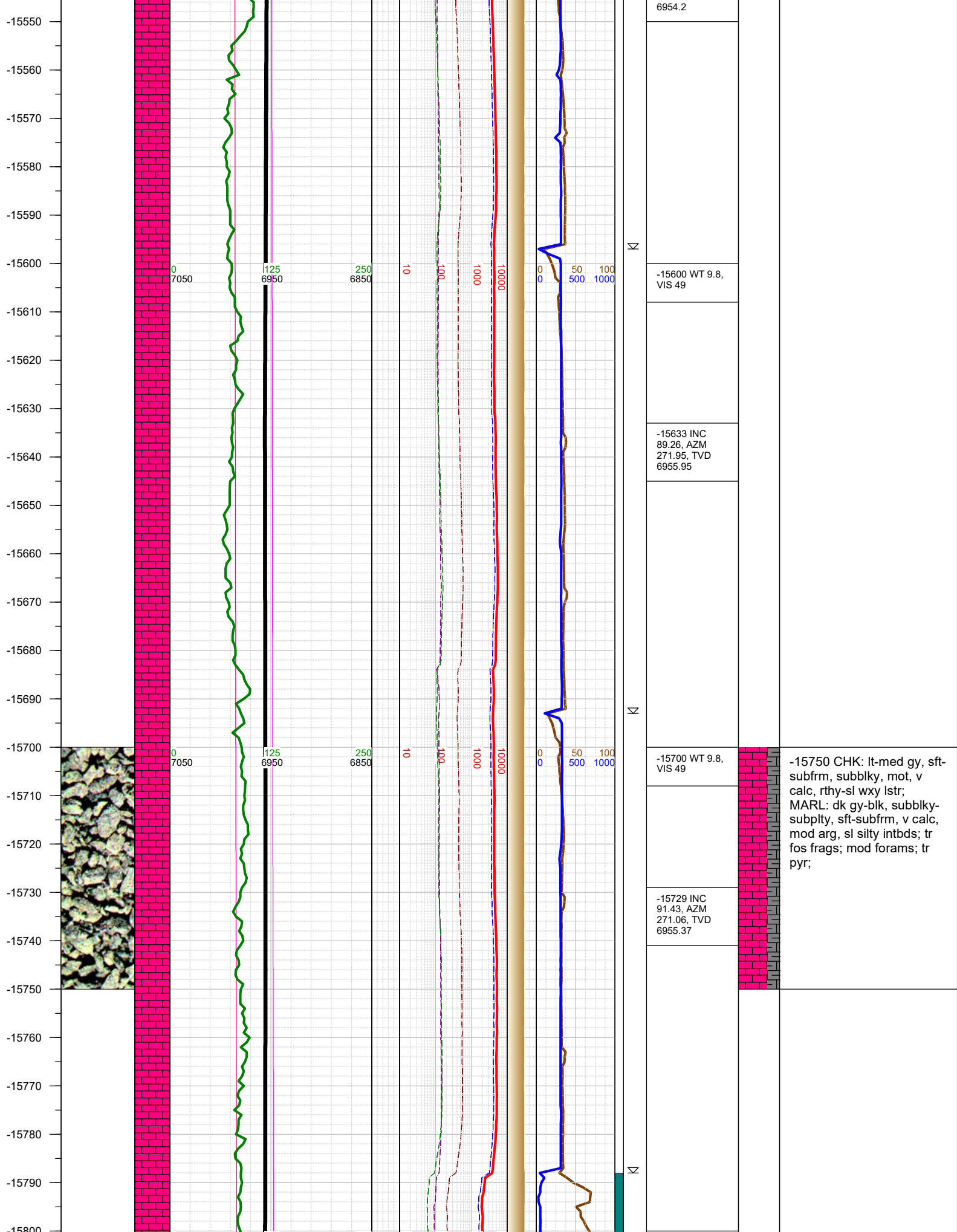
Σ	-14582 INC 92.71, AZM 276.26, TVD 6961.05	Σ	
	-14600 WT 9.8, VIS 51		
Σ	-14641 0000 hrs on 3/23/2019		
	-14678 INC 91.07, AZM 274.15, TVD 6957.89		
Σ	-14700 WT 9.8, VIS 51		-14750 CHK: lt-med gy, sft- subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky- subplty, sft-subfrm, v calc, mod arg, sl silty intbds; tr fos frags; tr forams; tr pyr;
	-14773 INC 90.59, AZM 274.81, TVD		











-15750 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, sl silty intbds; tr fos frags; mod forams; tr pyr;

