

OPERATOR: **Extraction Oil & Gas**

WELL NAME: **Jamaso 4-65 5-6-10**

FIELD NAME: DJ Basin - Wattenberg

DRILLING RIG: Patterson 340

API #: 05-005-07375

LAT/LONG: 39.733281, -104.674002

SURFACE HOLE: SWNW S4-T4S-R65W, 2449' FNL, 1211' FWL

BOTTOM HOLE: S6-T4S-R65W, 1277' FSL, 460' FWL



Earth Science Agency, LLC

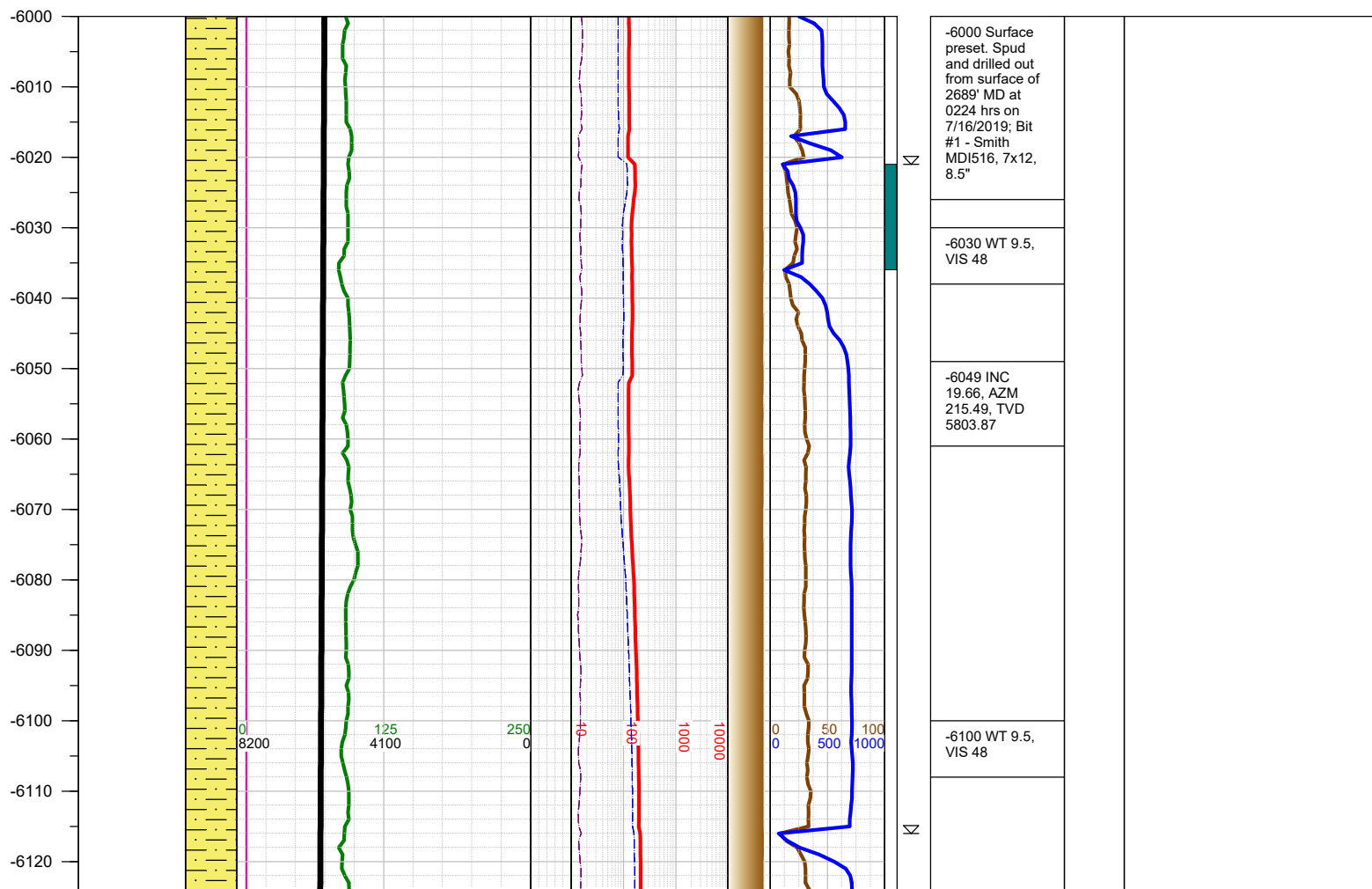
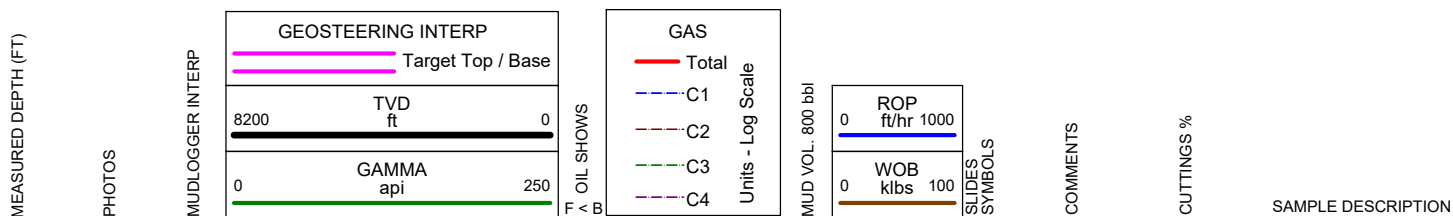
COUNTY: Arapahoe
STATE: Colorado
GROUND ELEVATION: 5591'
KELLY BUSHING: 5616'
DRILLING FLUID: OBM
TVD VS. MD: 8040' / 18214'
SPUD DATE: July 16, 2019
TD DATE: July 19, 2019

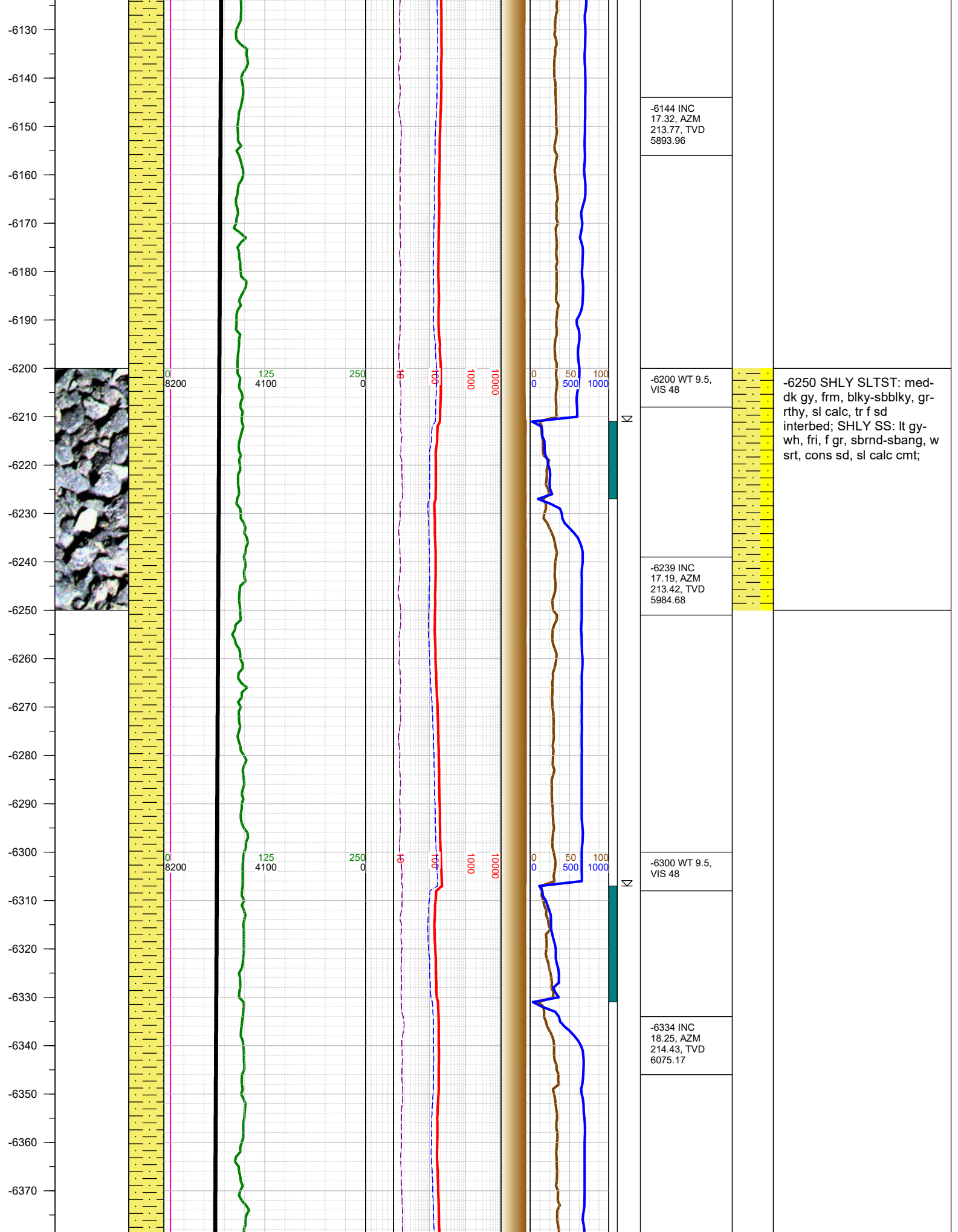
DEPTHS LOGGED: 6000' - 18214'
DATES LOGGED: July 16, 2019 - July 19, 2019
GEOLOGISTS: Dan Jacobs, Kyle Newman
SCALE: 5" = 100'

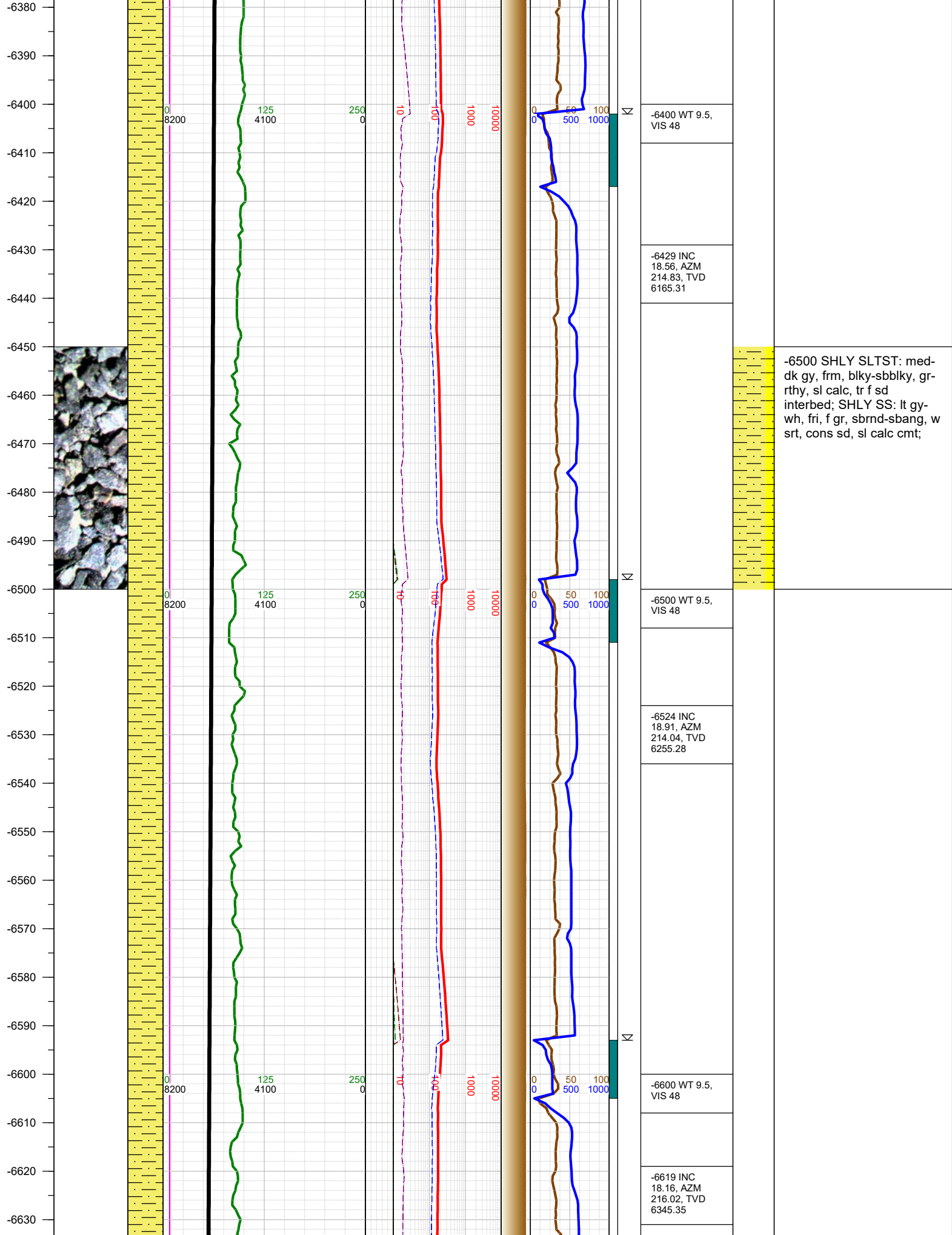
LEGEND

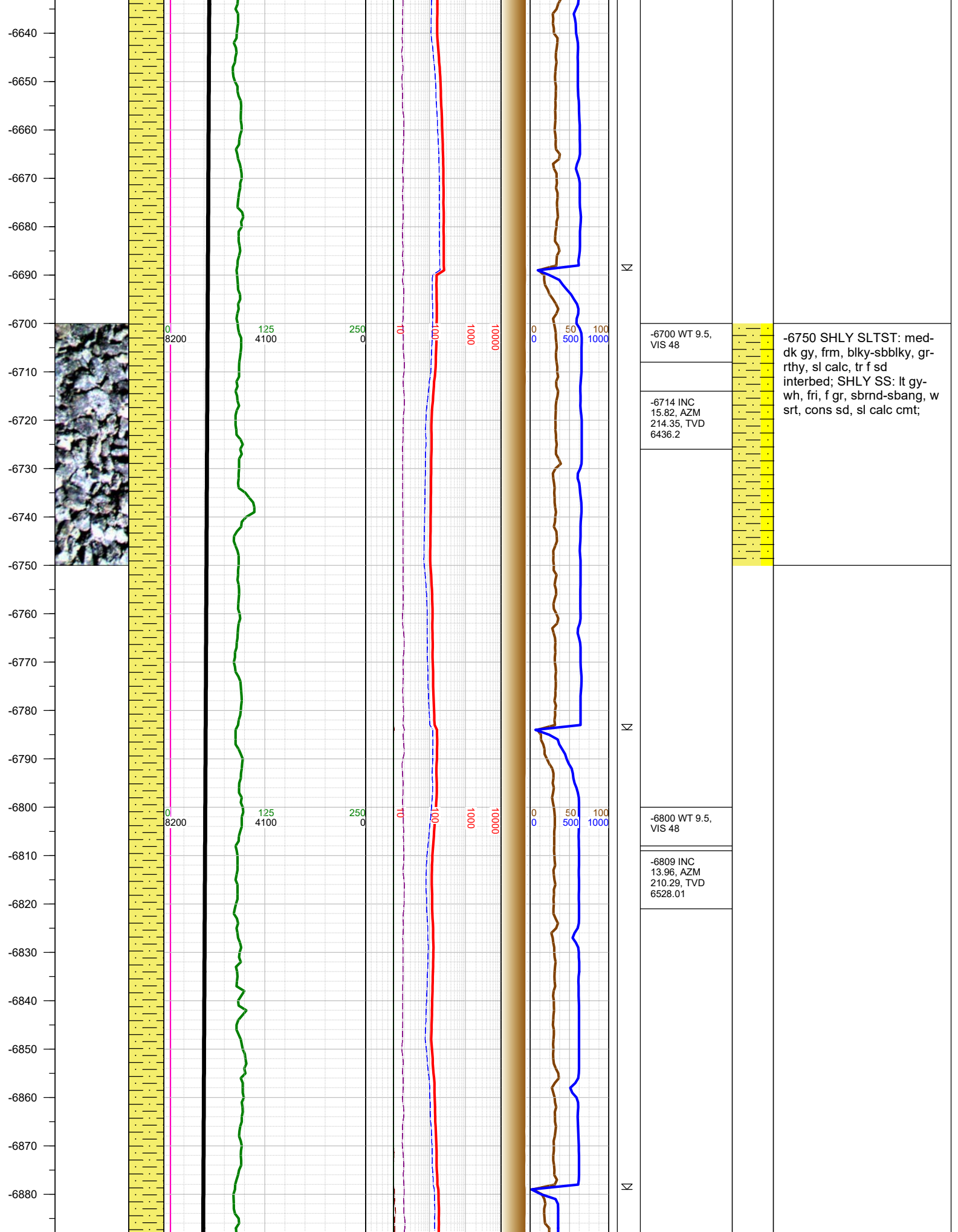


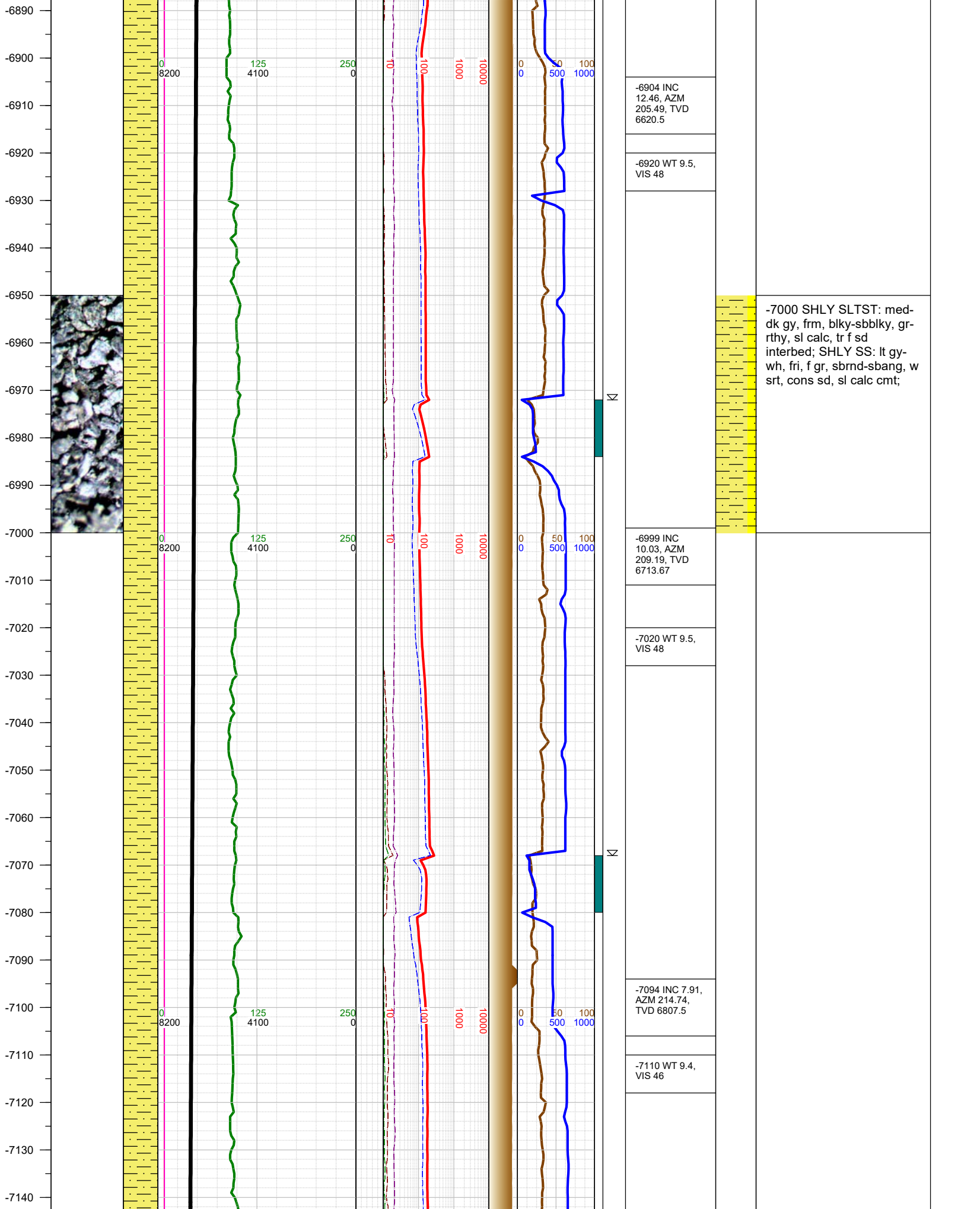
FORMATION \approx CONNECTION Δ MIDNIGHT NEW BIT GAS SHOW FAULT

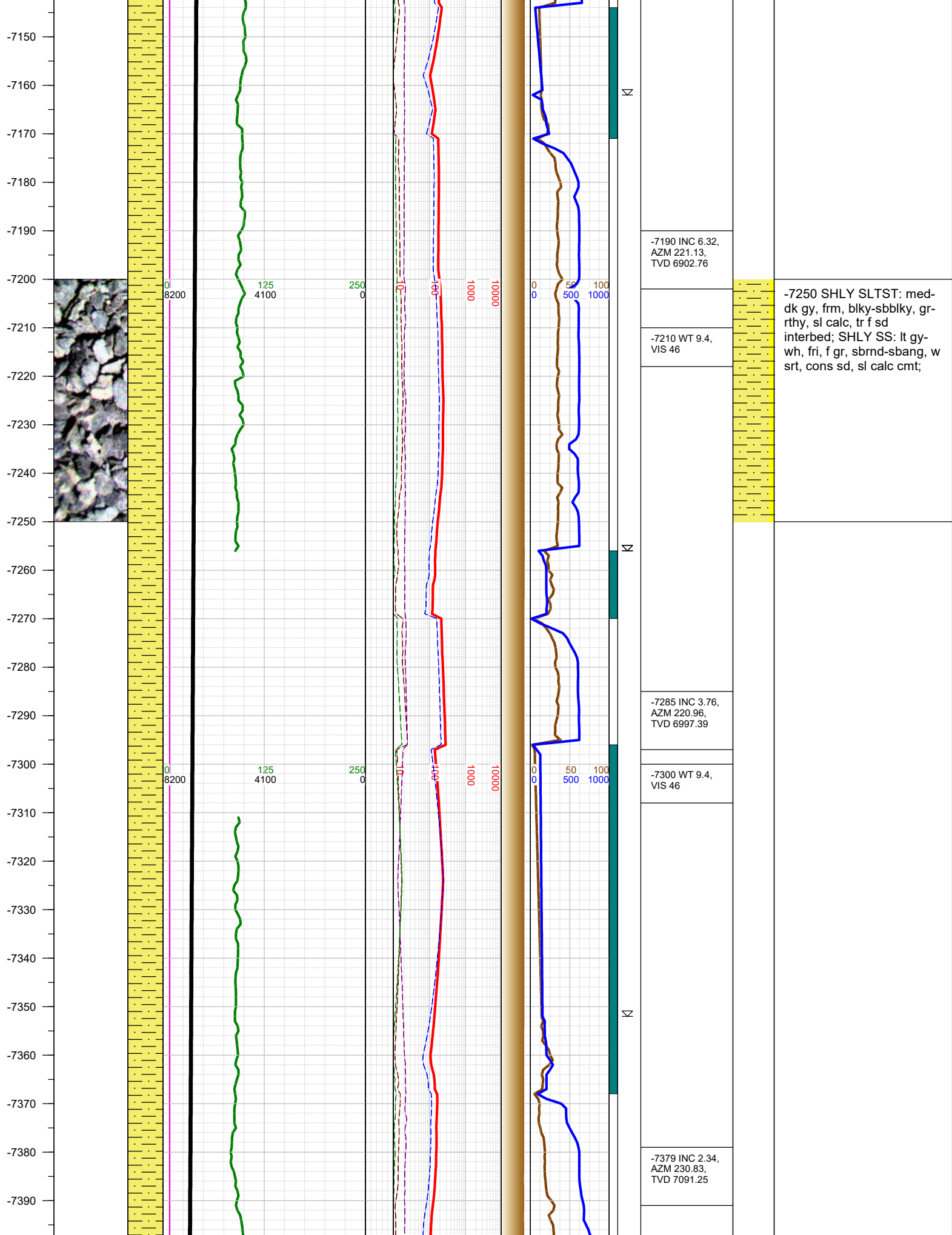


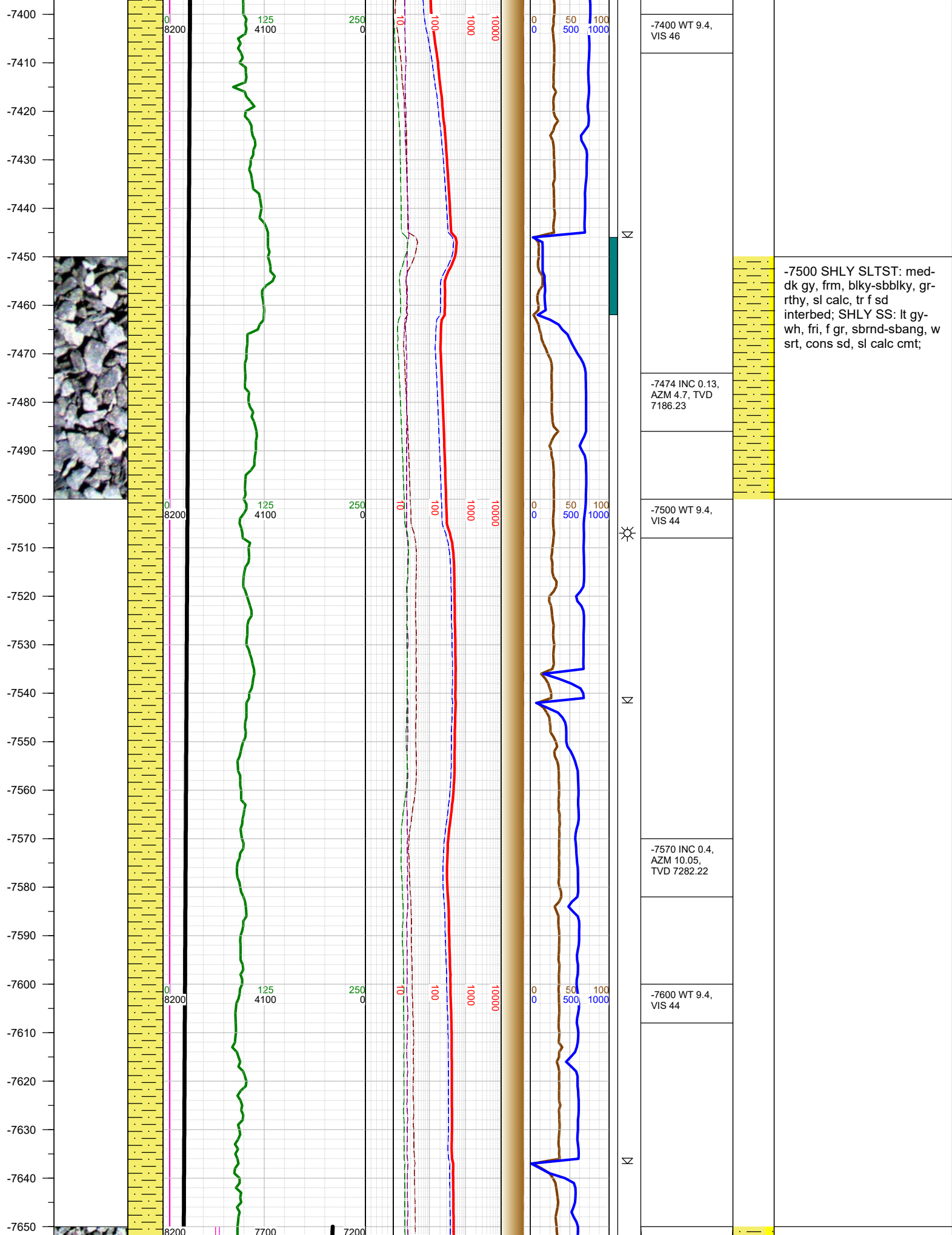


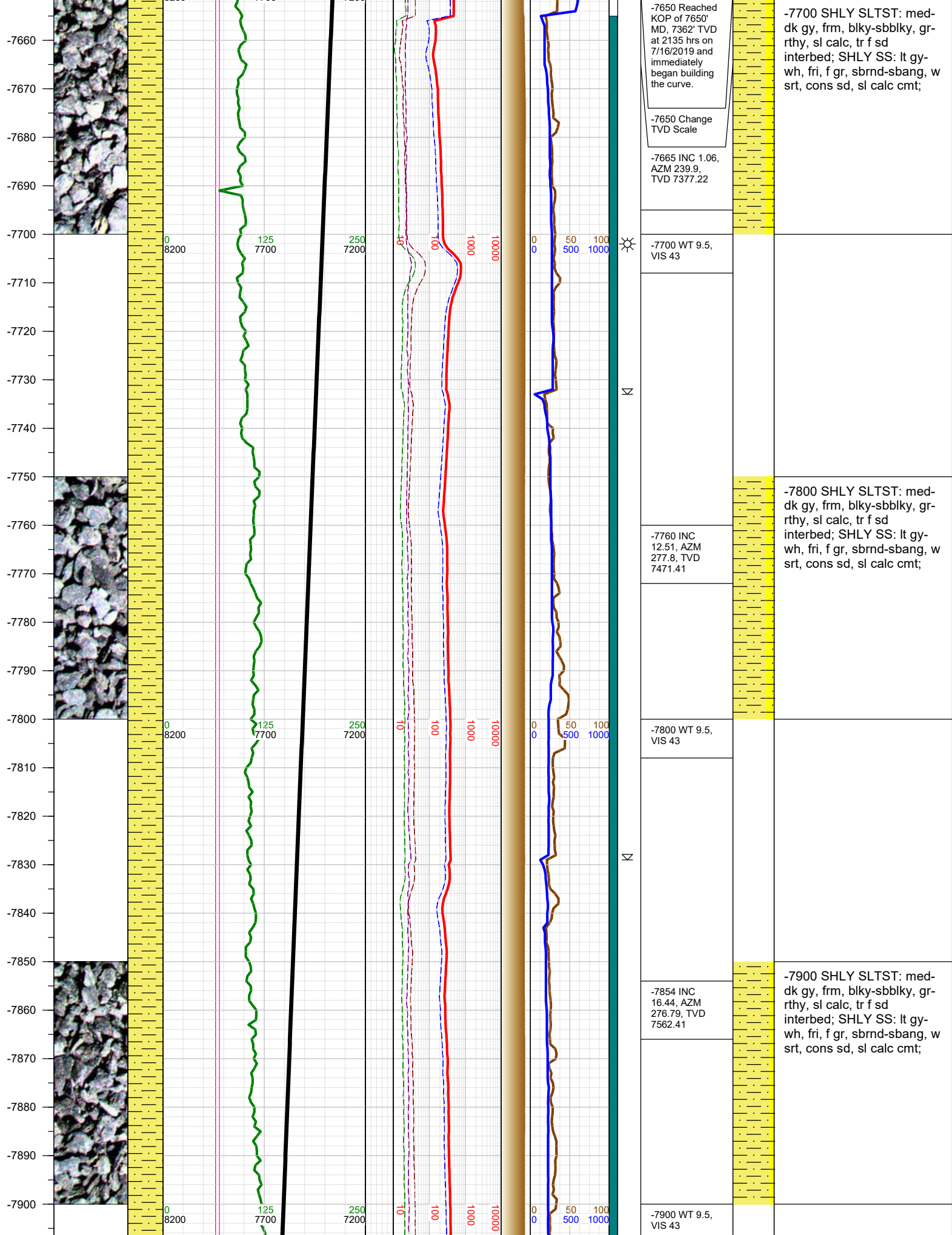


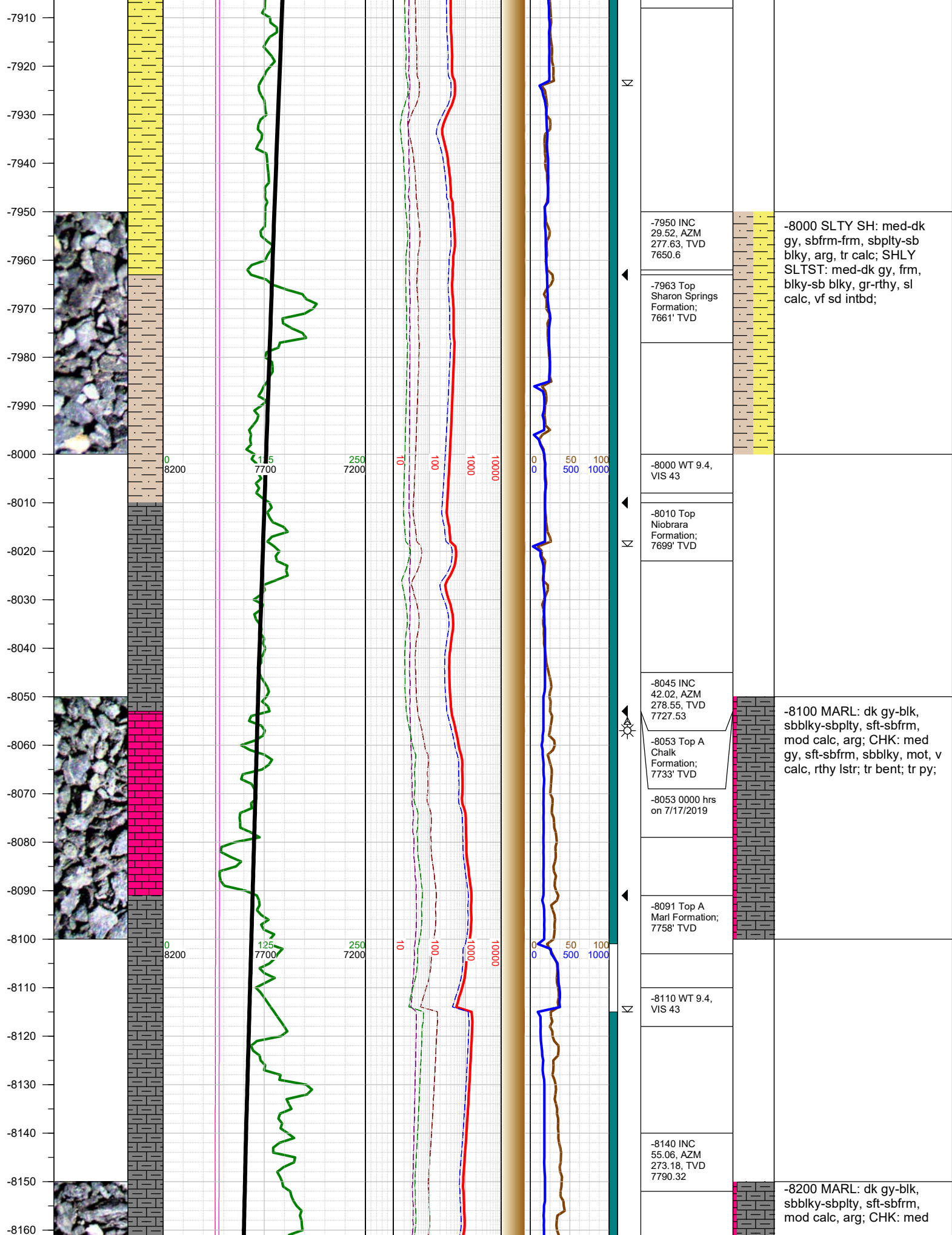


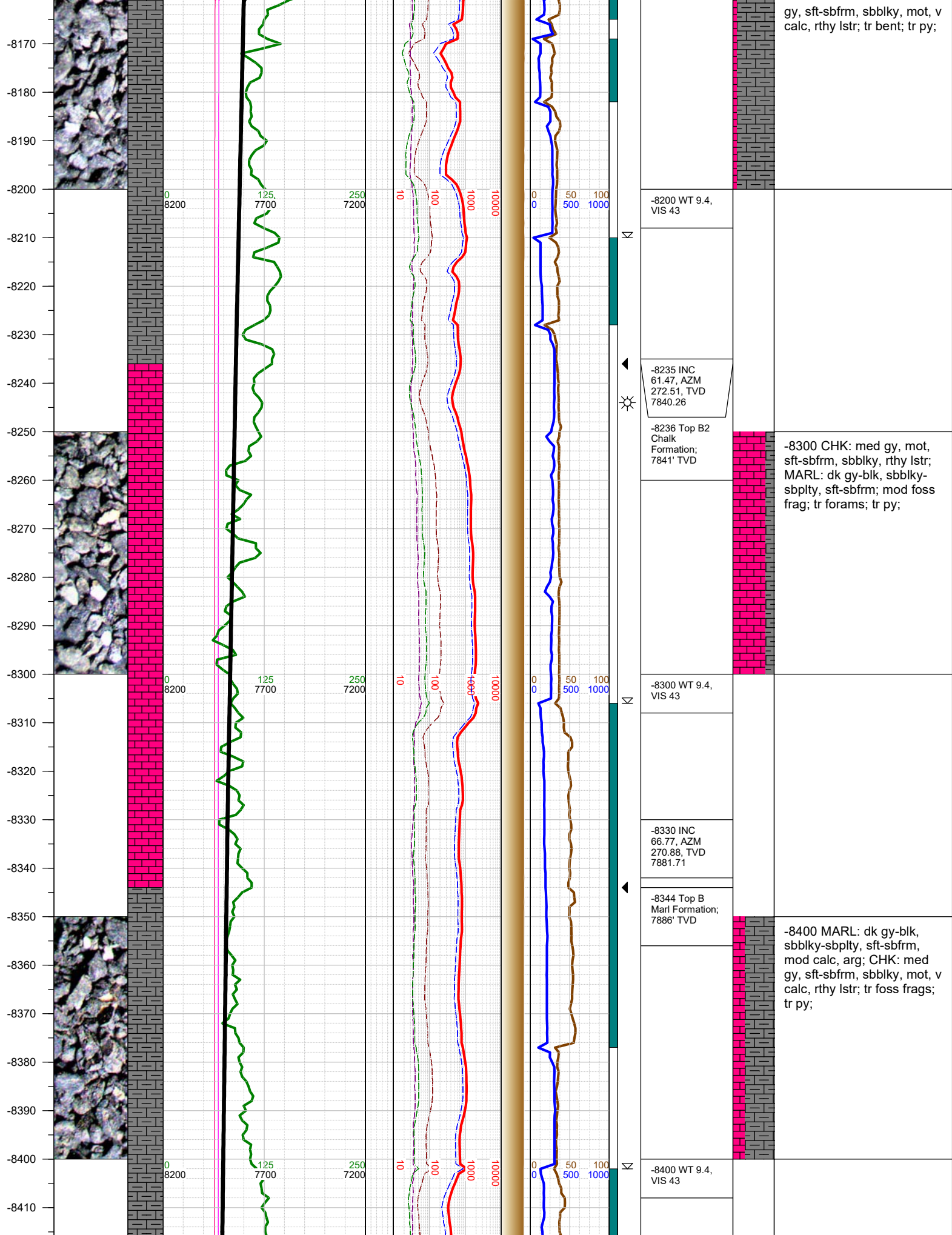


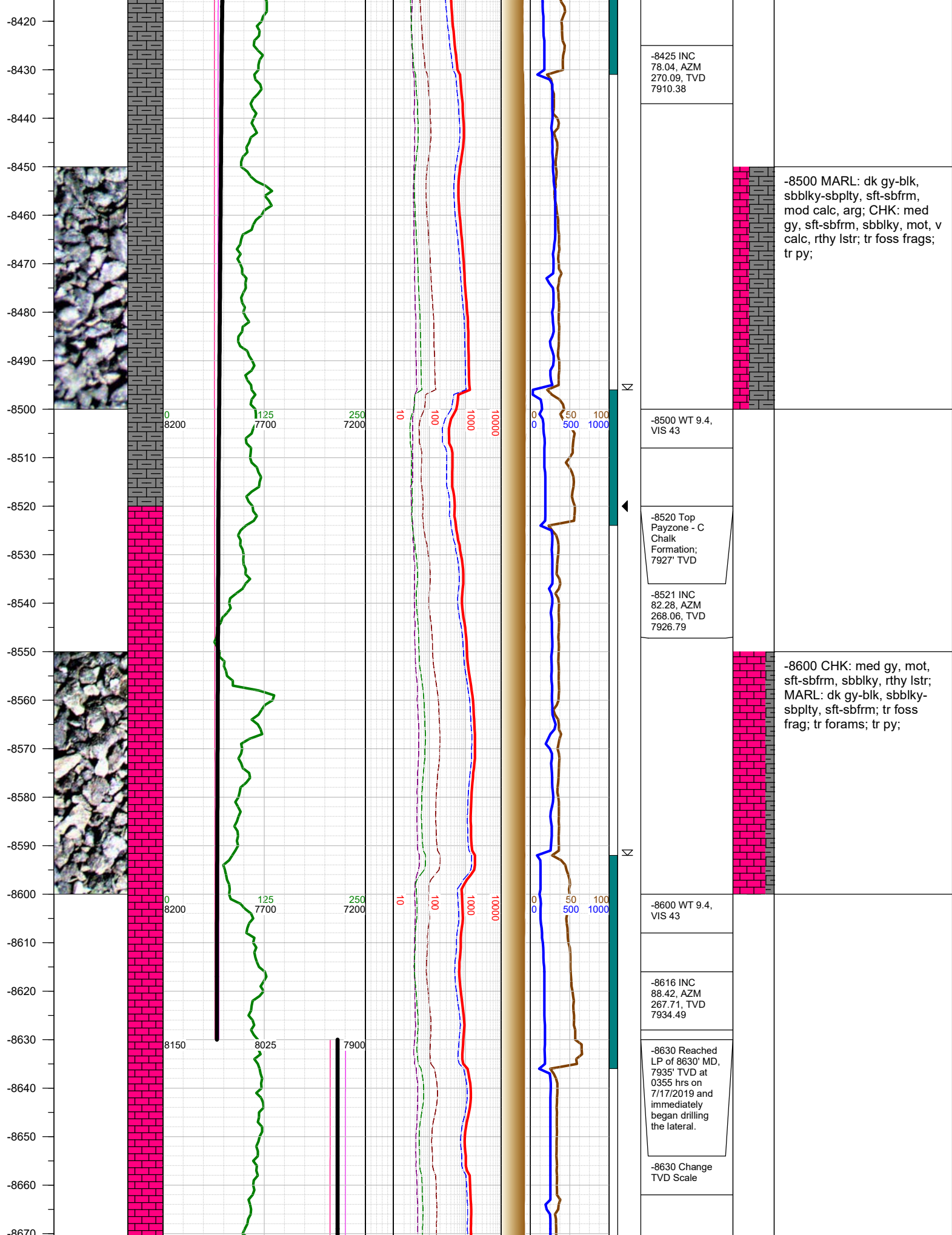


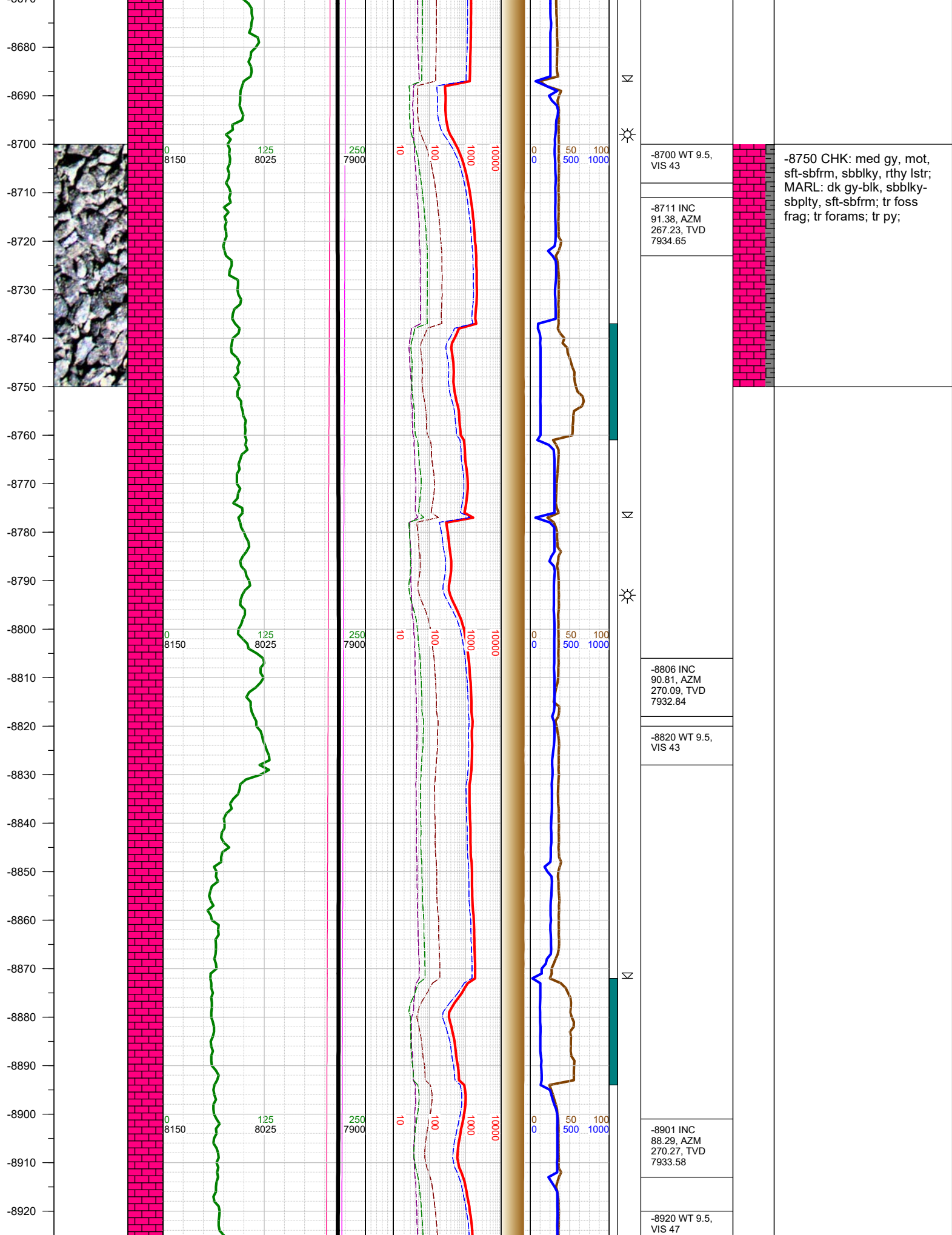












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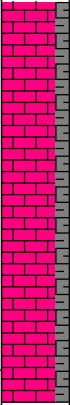
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-8996 INC
88.03, AZM
269.74, TVD
7936.63

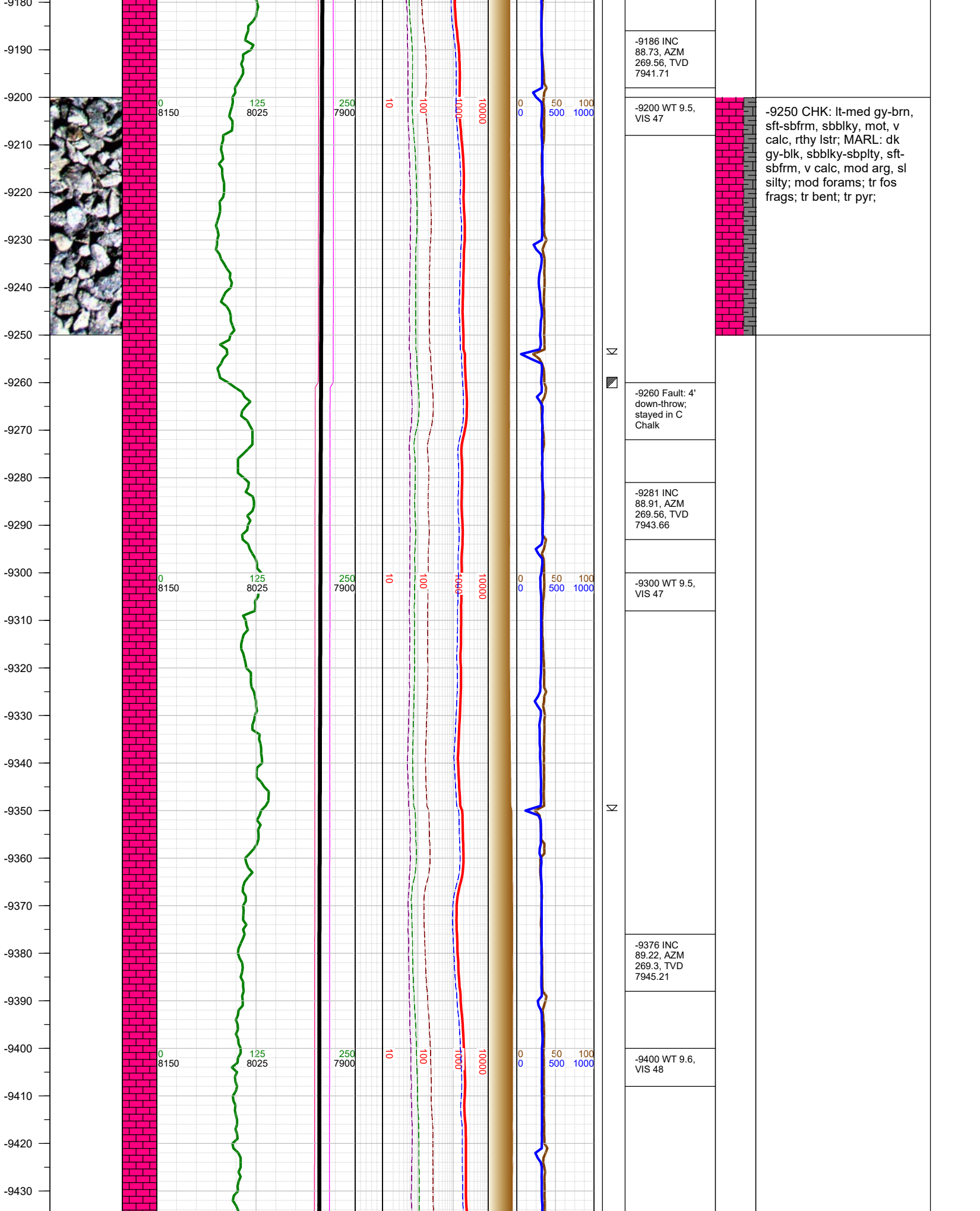
-9010 WT 9.5,
VIS 47

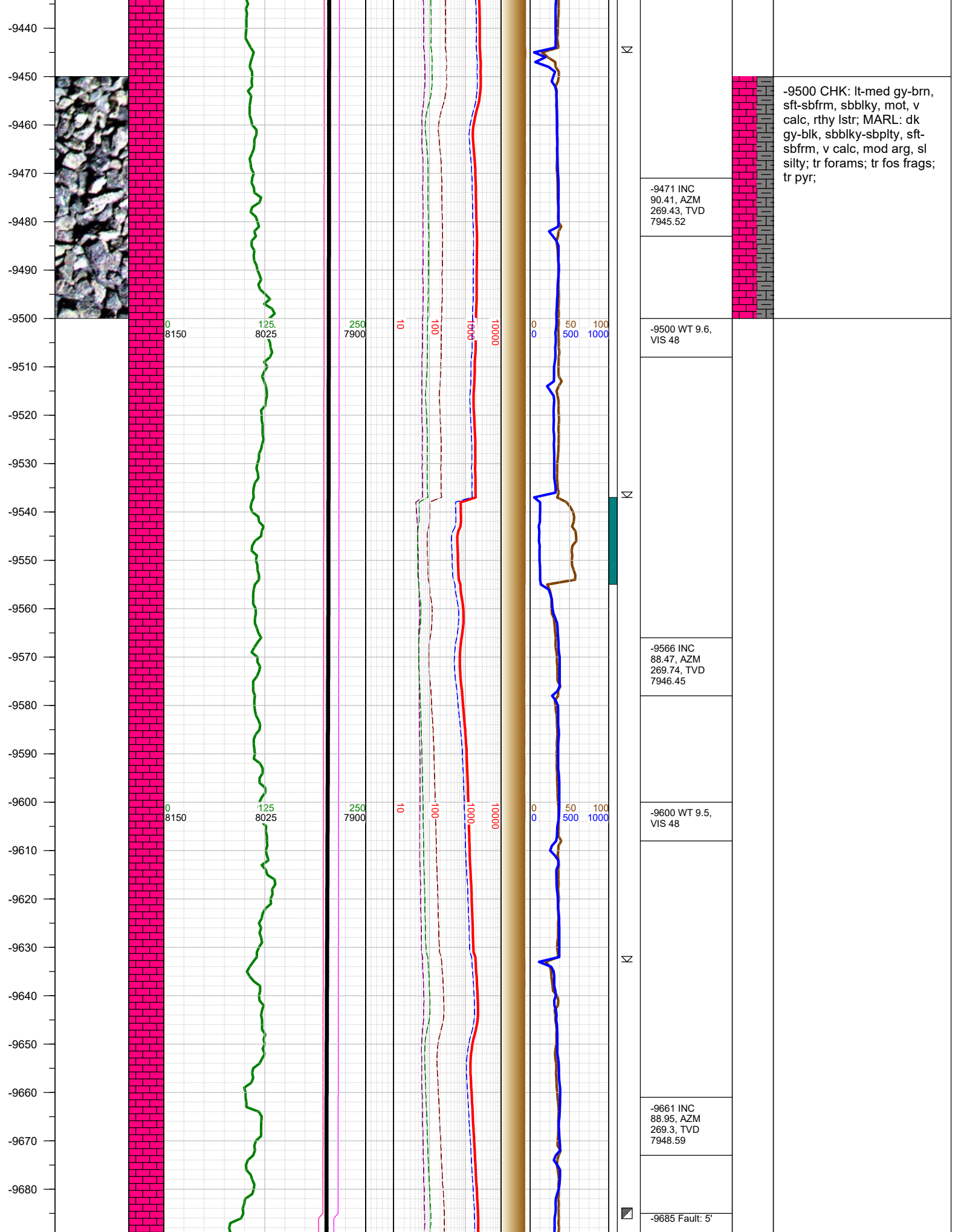
-9091 INC
88.56, AZM 270,
TVD 7939.46

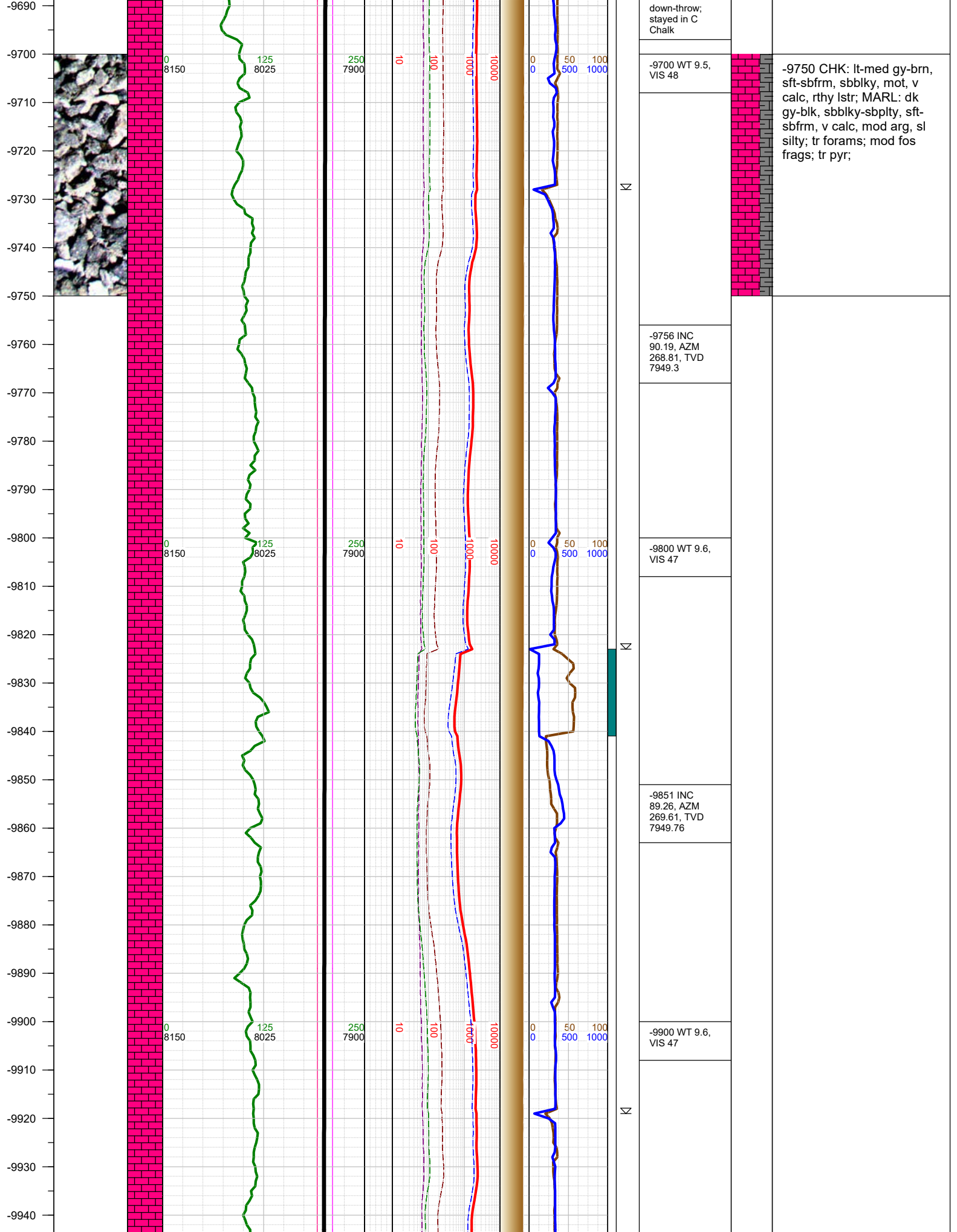
-9110 WT 9.5,
VIS 47

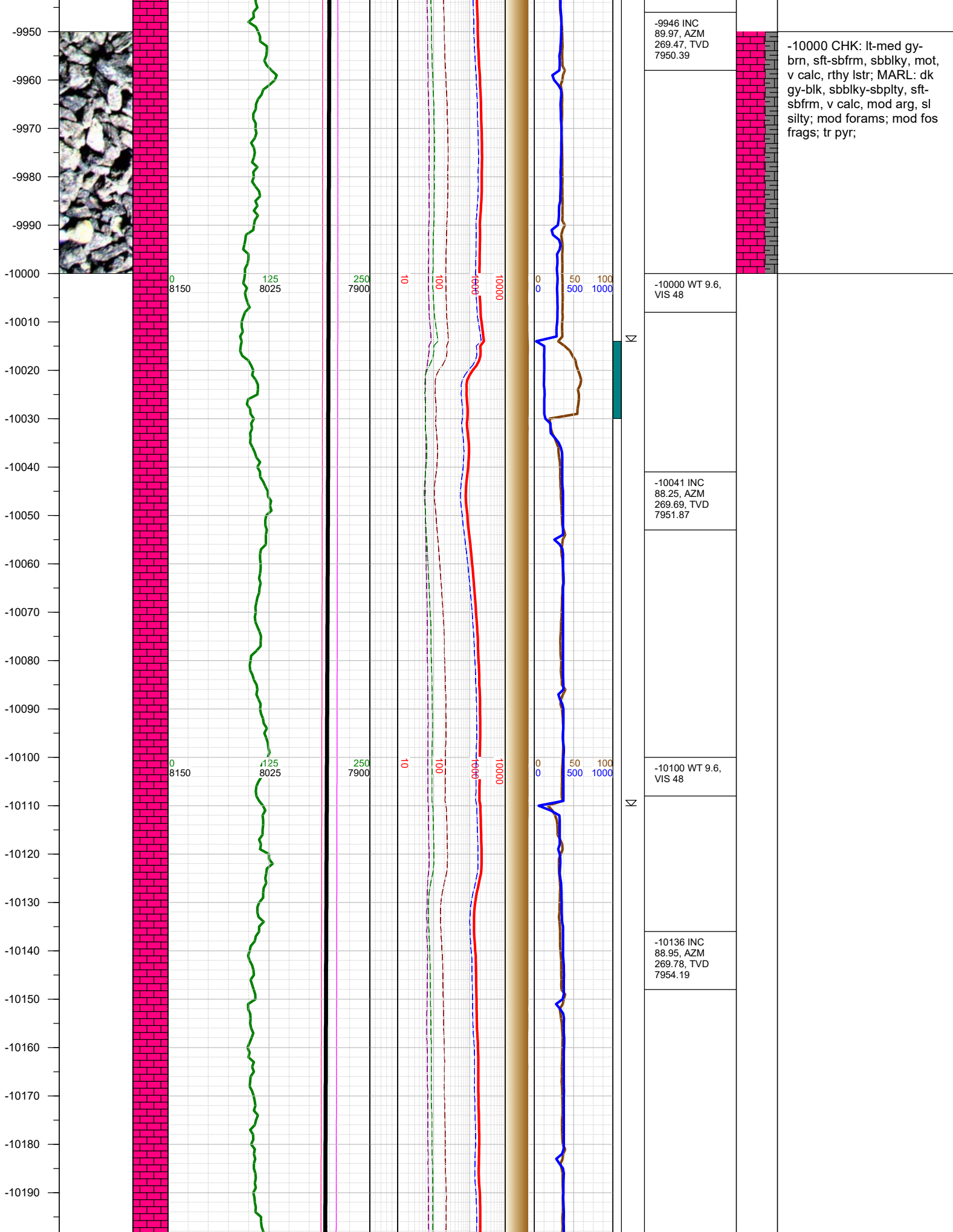


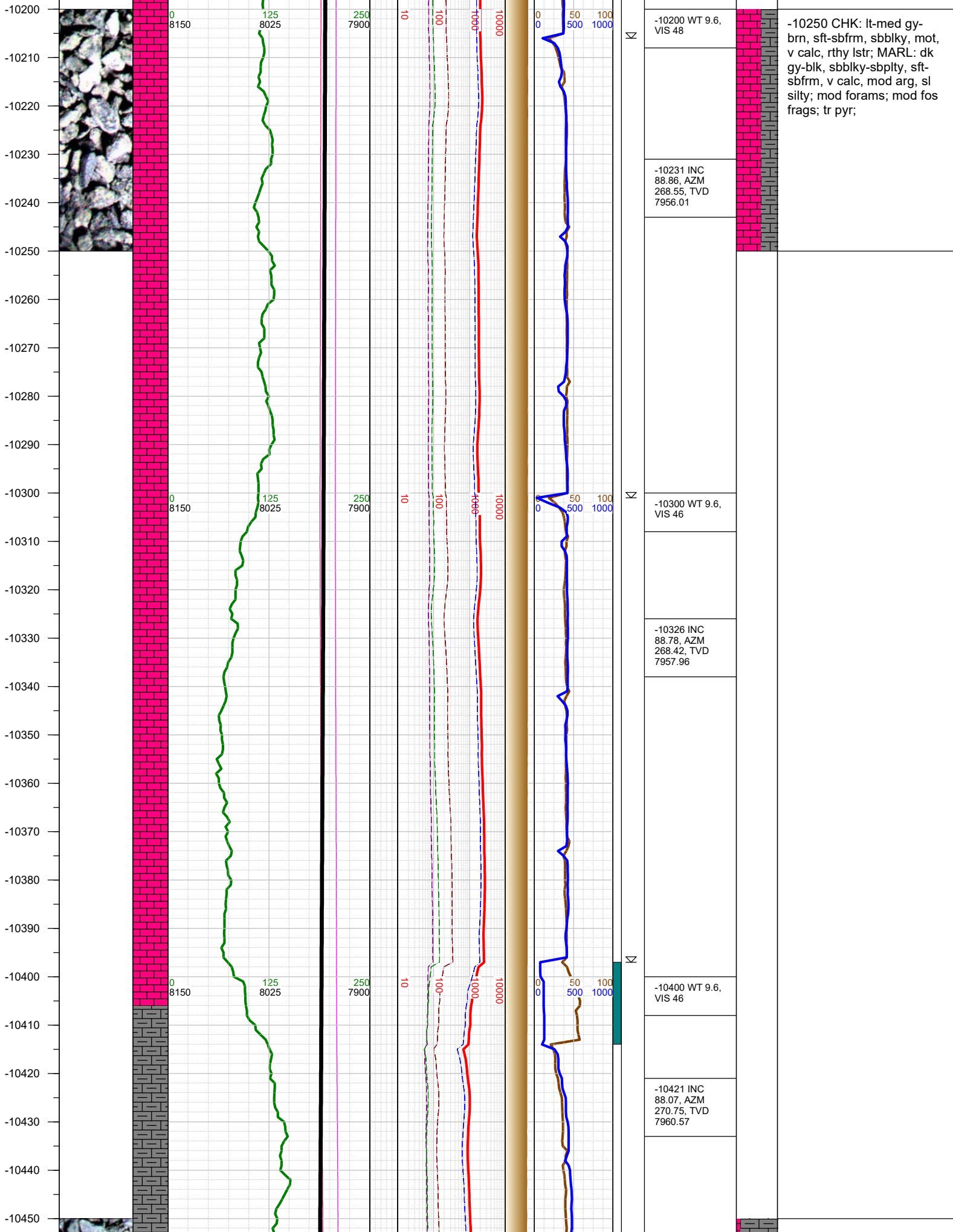
-9000 CHK: lt-med gy-brn,
sft-sbfrm, sbblky, mot, v
calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, v calc, mod arg, sl
silty; mod forams; tr fos
frags; tr bent; tr pyr;

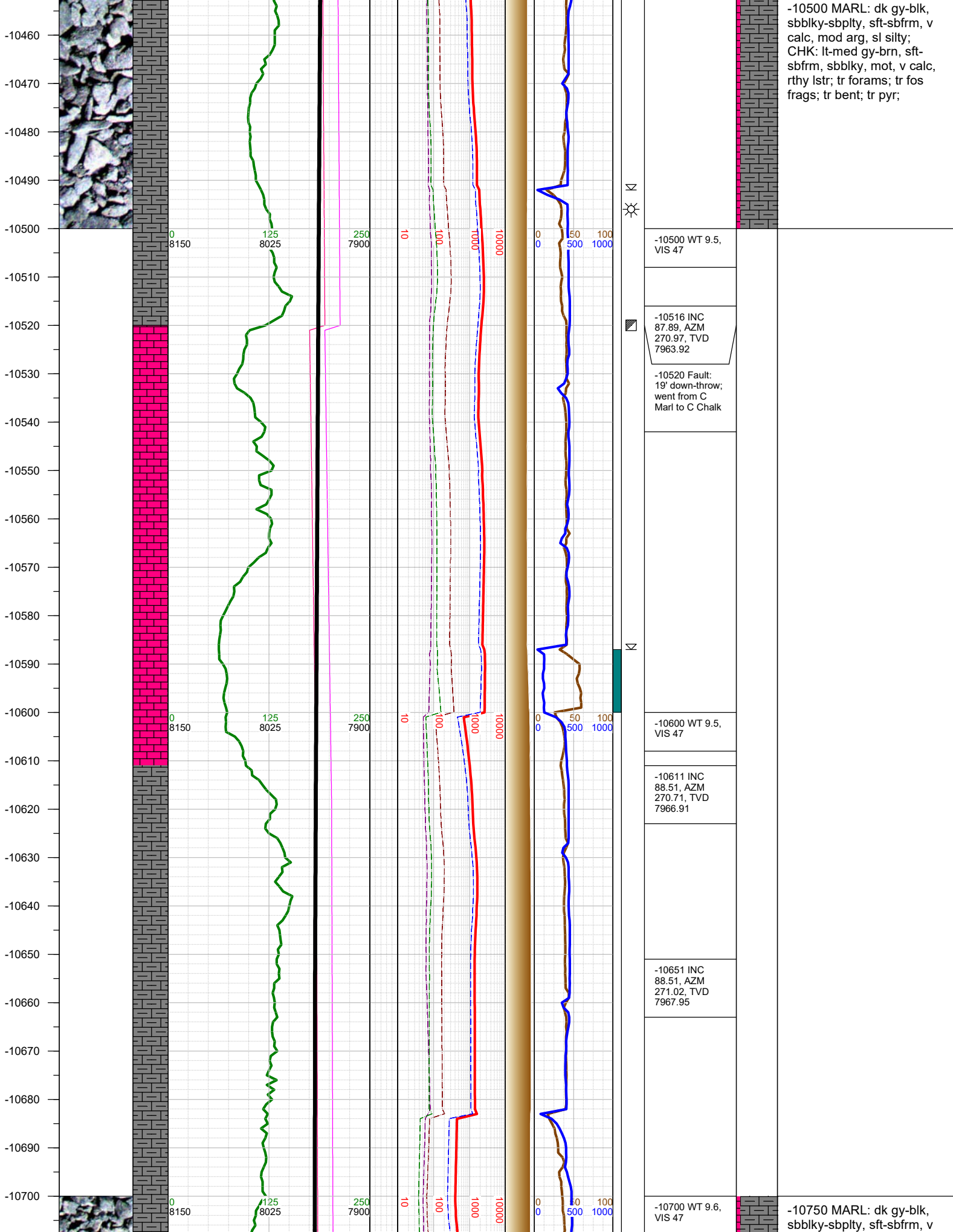


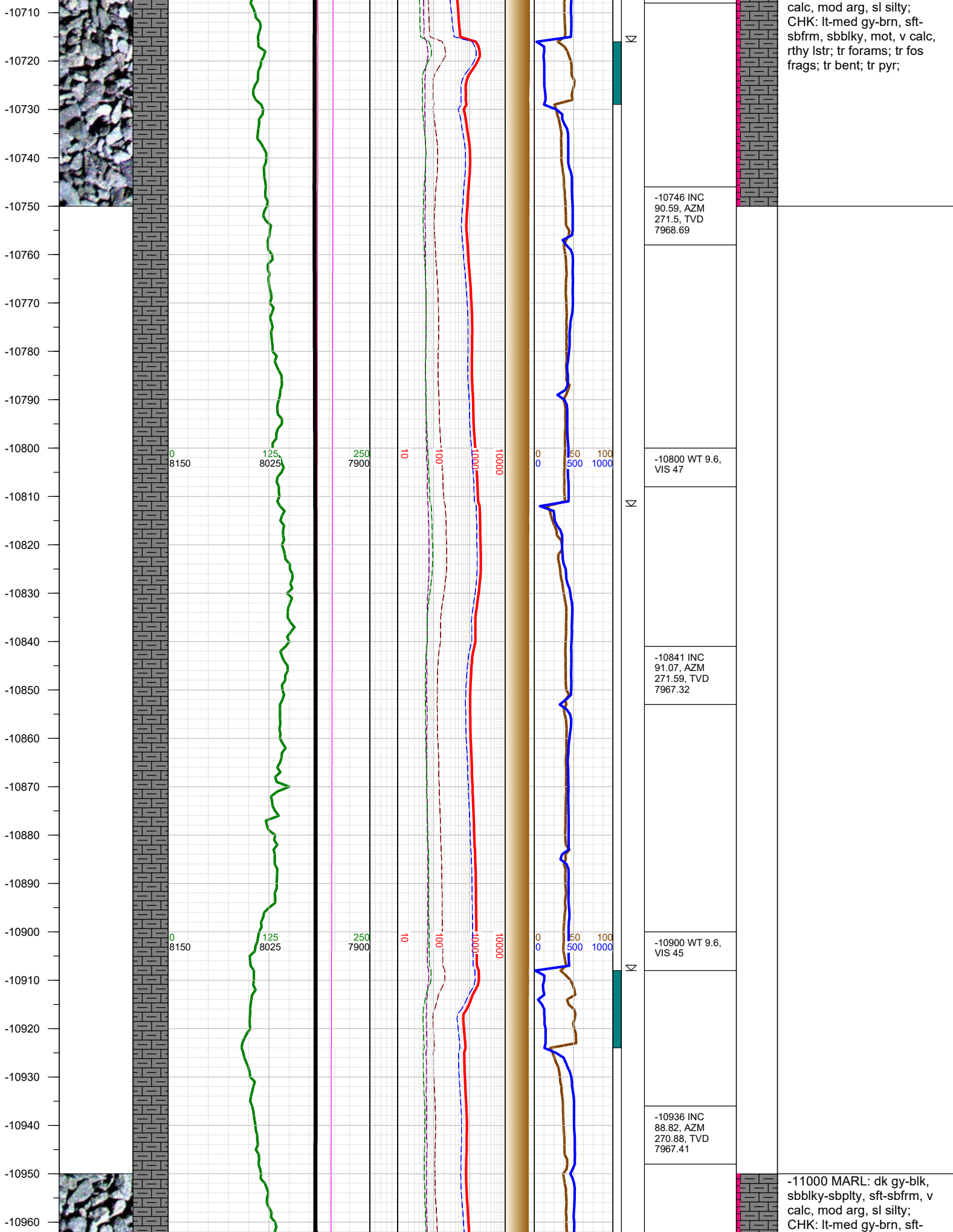


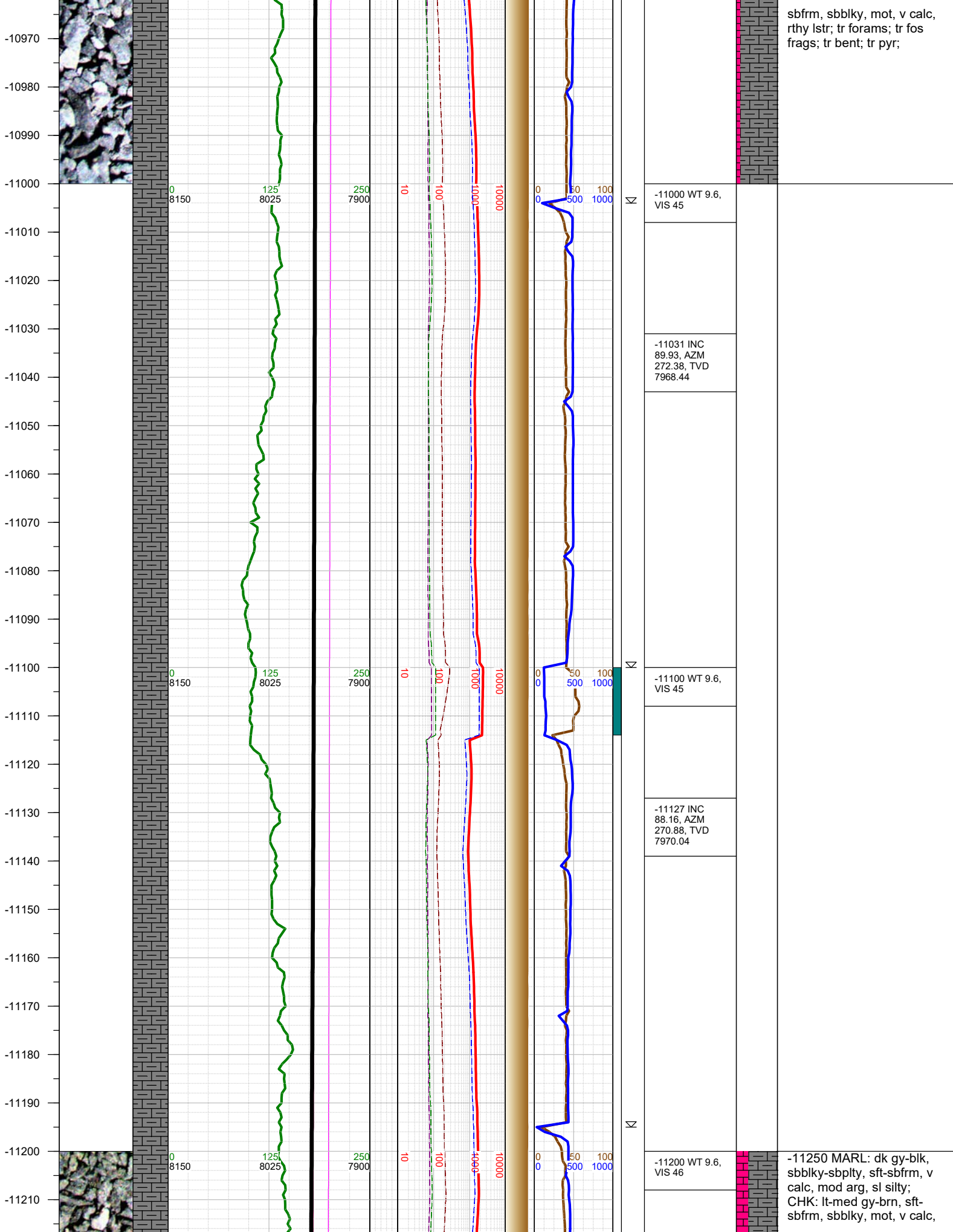


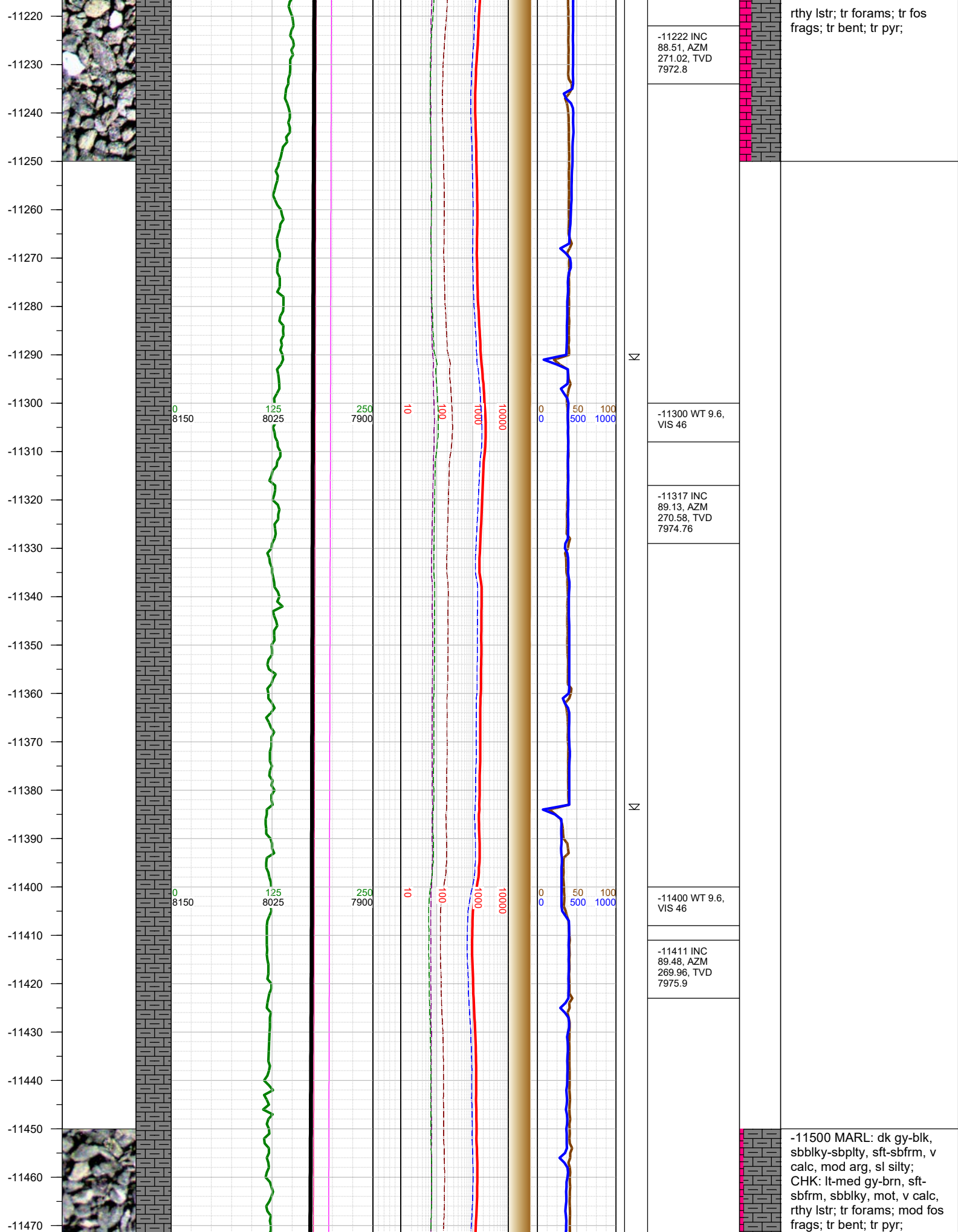




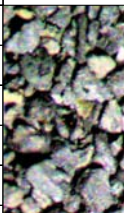
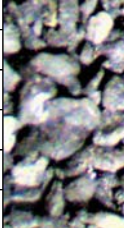








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-11506 INC
87.19, AZM
270.31, TVD
7978.66



-11520 WT 9.6,
VIS 46

-11601 INC
86.83, AZM
268.99, TVD
7983.62

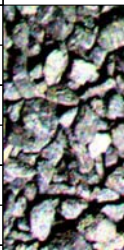
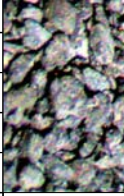
-11620 WT 9.6,
VIS 46

-11696 INC
88.56, AZM
269.25, TVD
7987.44

-11710 WT 9.6,
VIS 42

-11750 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 fos
frags; tr bent; tr pyr;

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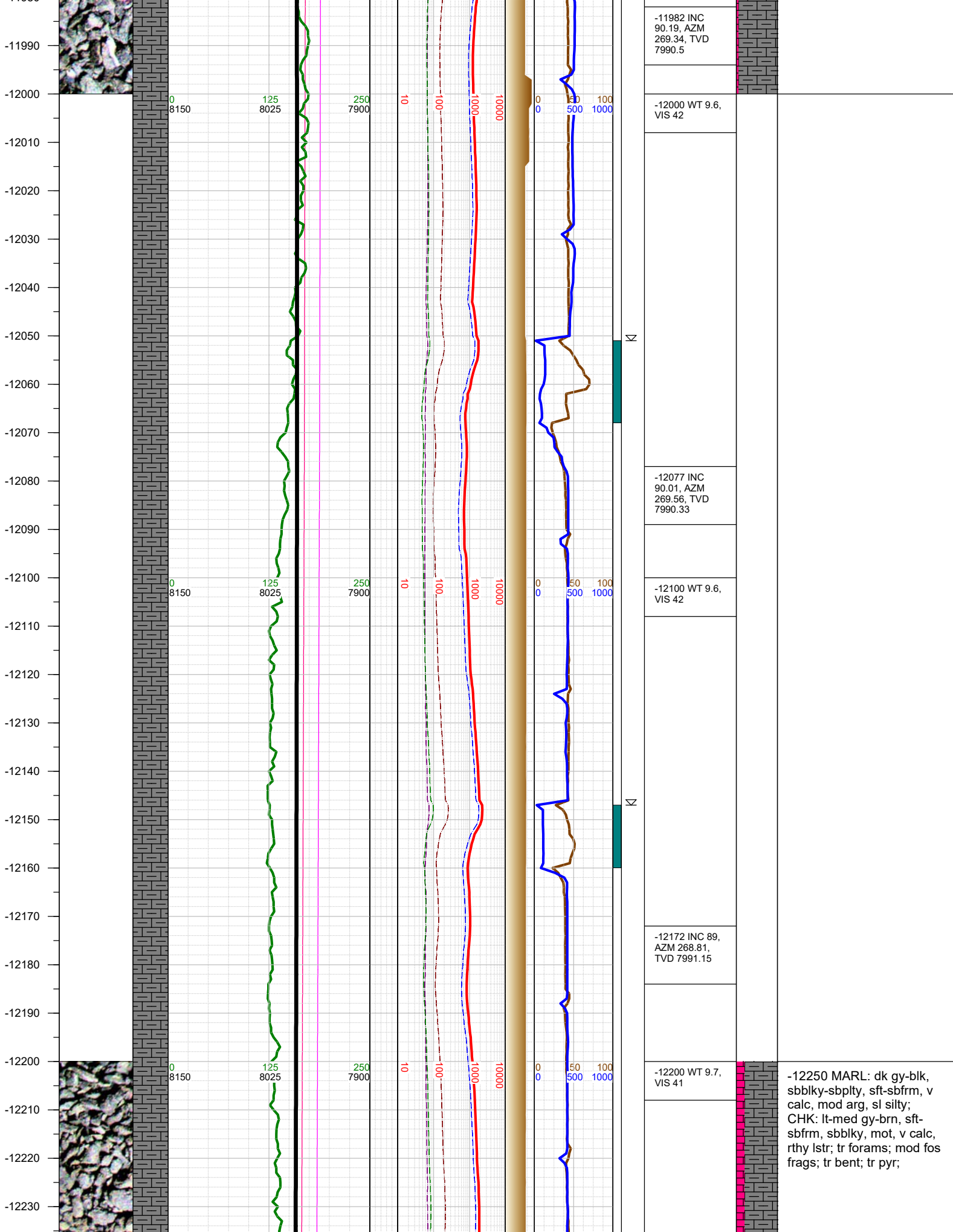
-11792 INC
89.09, AZM
269.39, TVD
7989.41

-11810 WT 9.6,
VIS 42

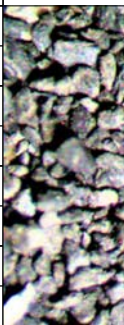
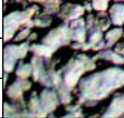
-11887 INC
89.7, AZM
269.74, TVD
7990.41

-11900 WT 9.6,
VIS 42

-12000 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 forams; mod fos
frags; tr bent; tr pyr;



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-12267 INC
89.4, AZM
268.68, TVD
7992.48

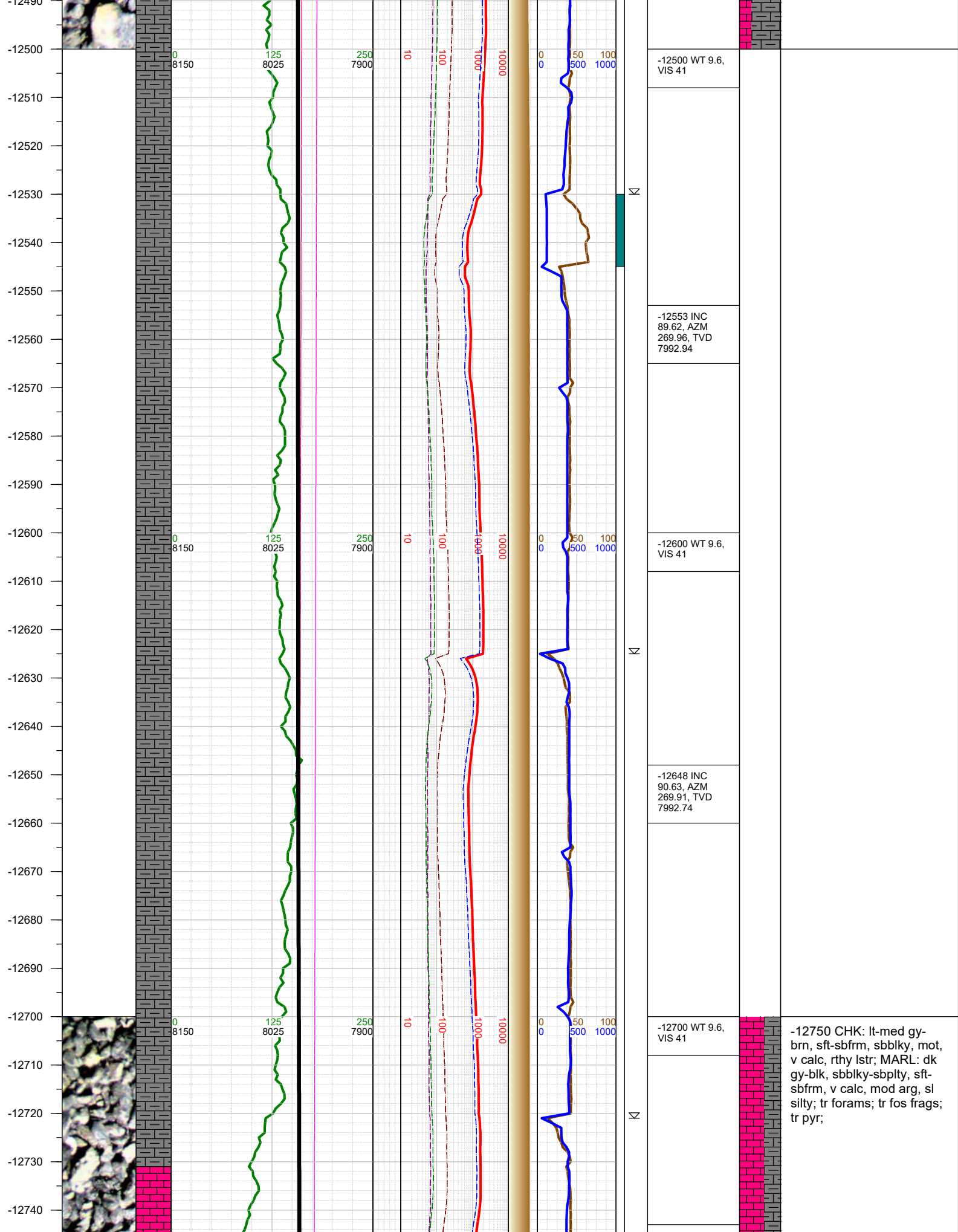
-12300 WT 9.7,
VIS 41

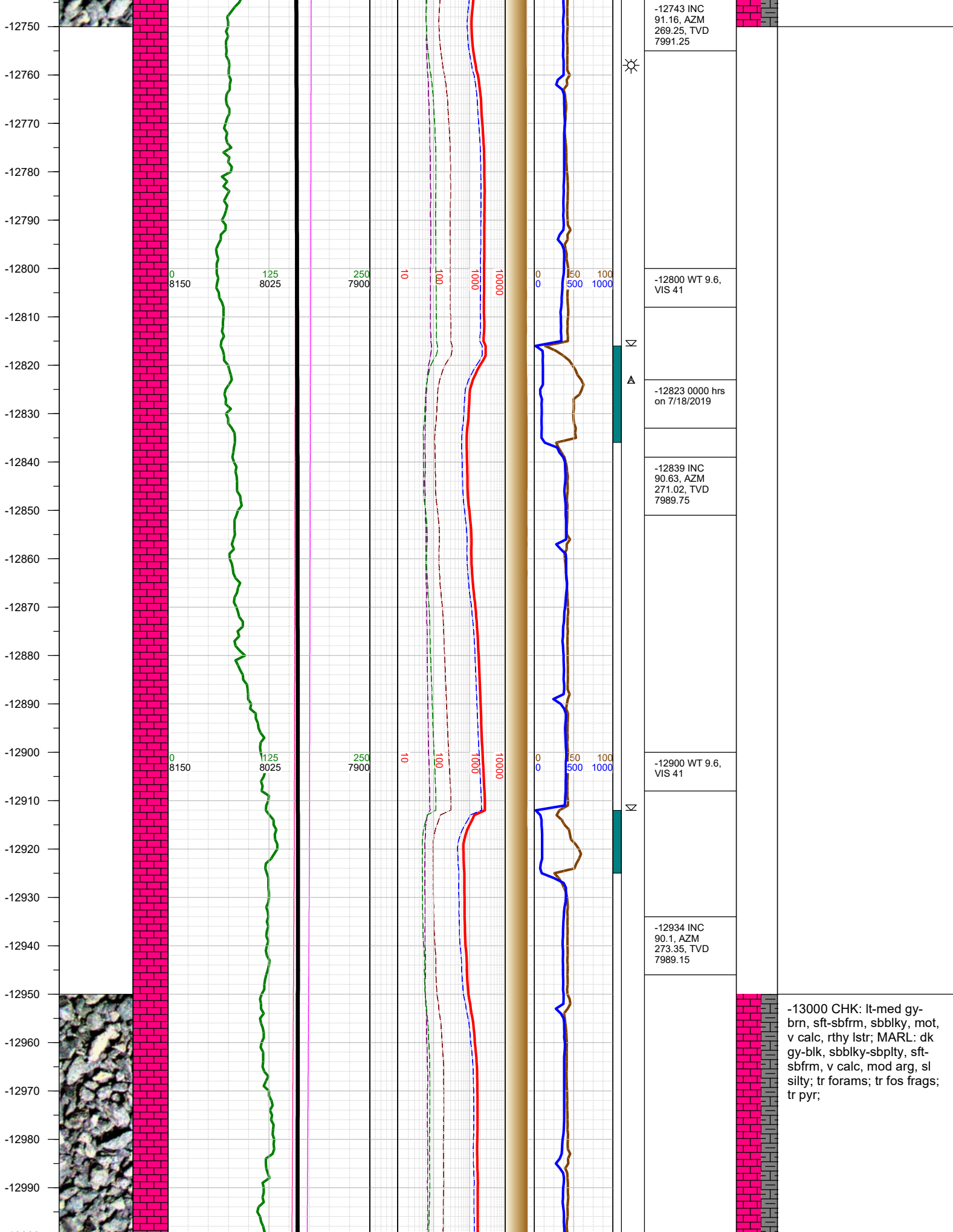
-12362 INC
89.75, AZM
268.2, TVD
7993.19

-12400 WT 9.7,
VIS 41

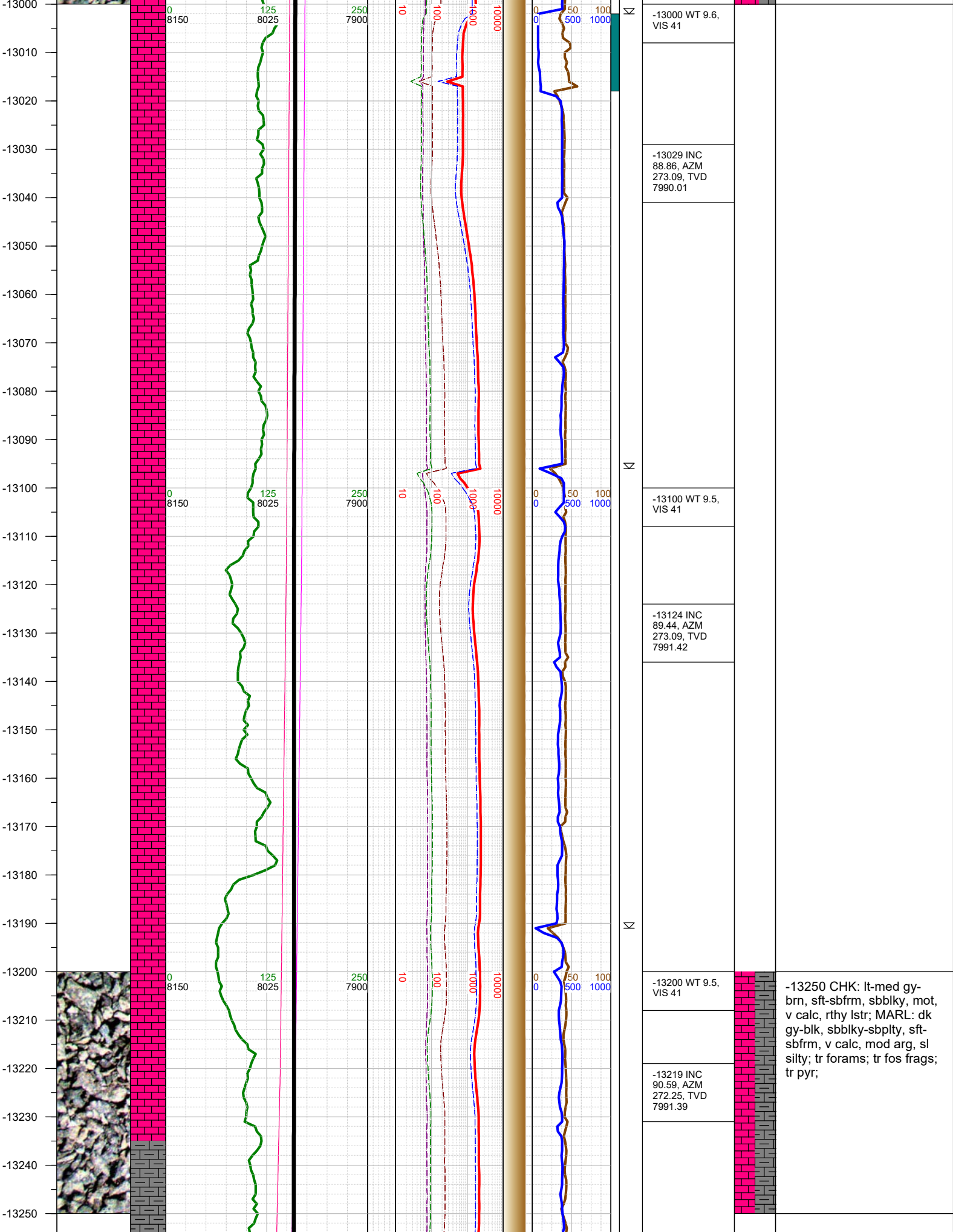
-12458 INC
90.46, AZM
268.28, TVD
7993.01

-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 forams; mod fos
frags; tr bent; tr pyr;

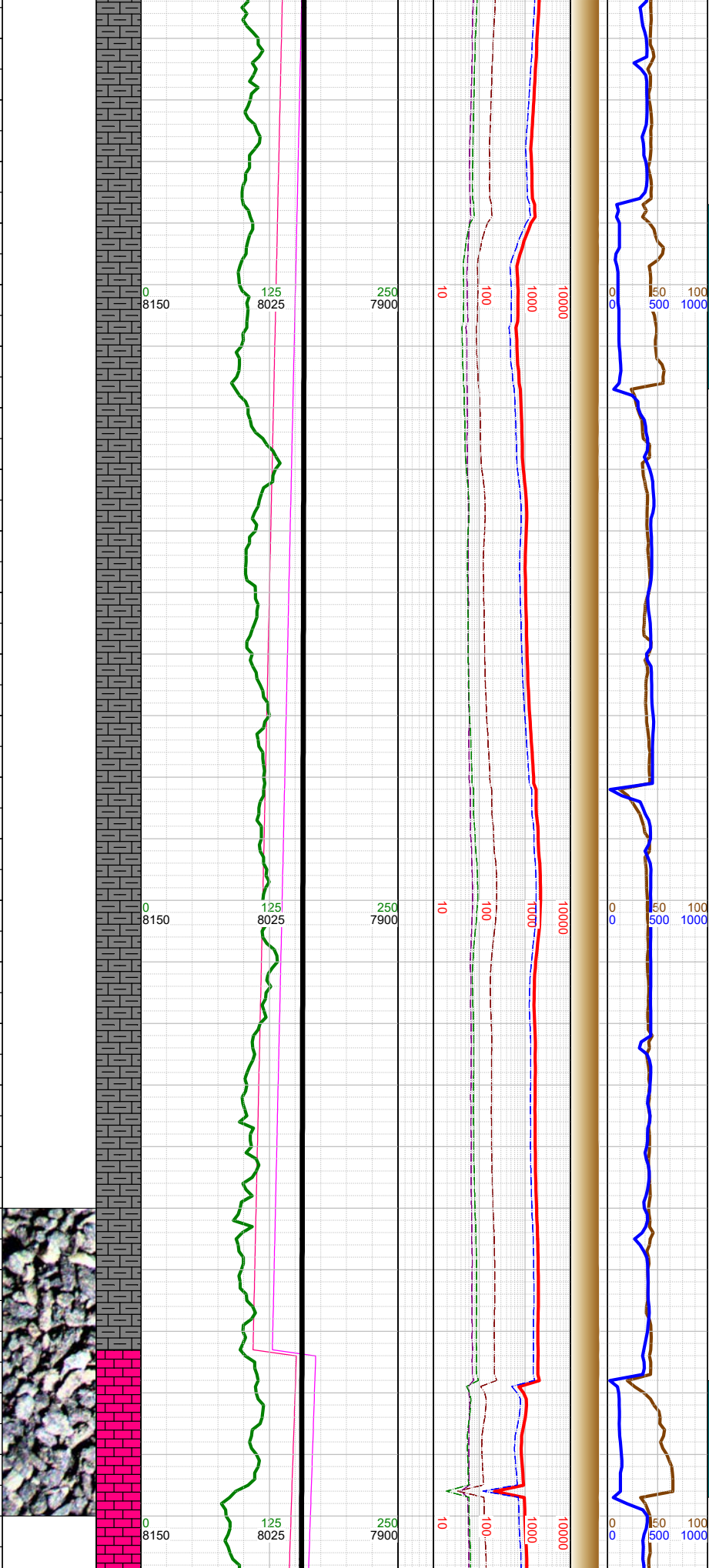




-13000 CHK: lt-med gy-brn, sft-sbfrm, sbbiky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbbiky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; tr forams; tr fos frags; tr pyr;



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-13300 WT 9.5,
VIS 41

-13314 INC
89.09, AZM
272.96, TVD
7991.66

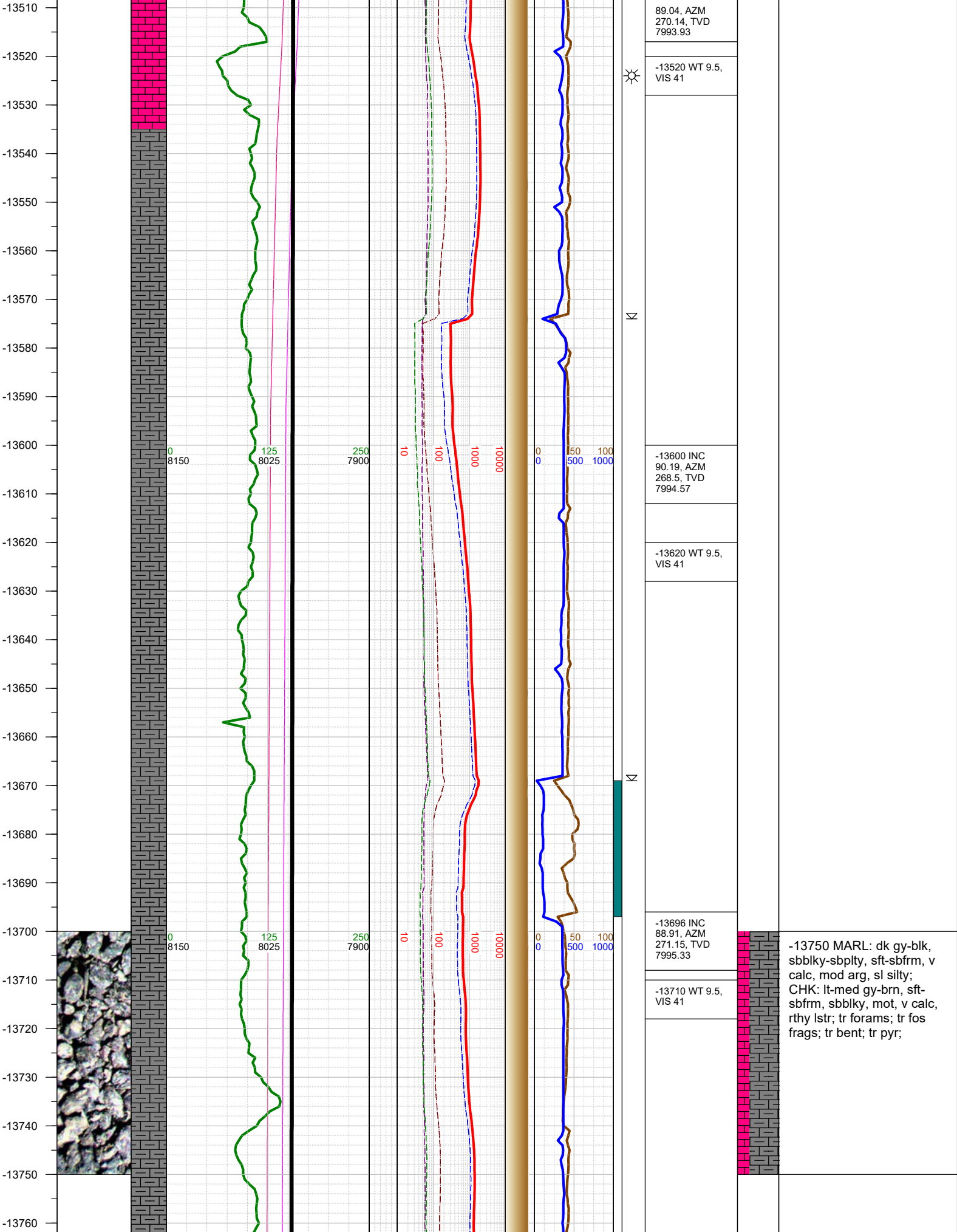
-13400 WT 9.5,
VIS 41

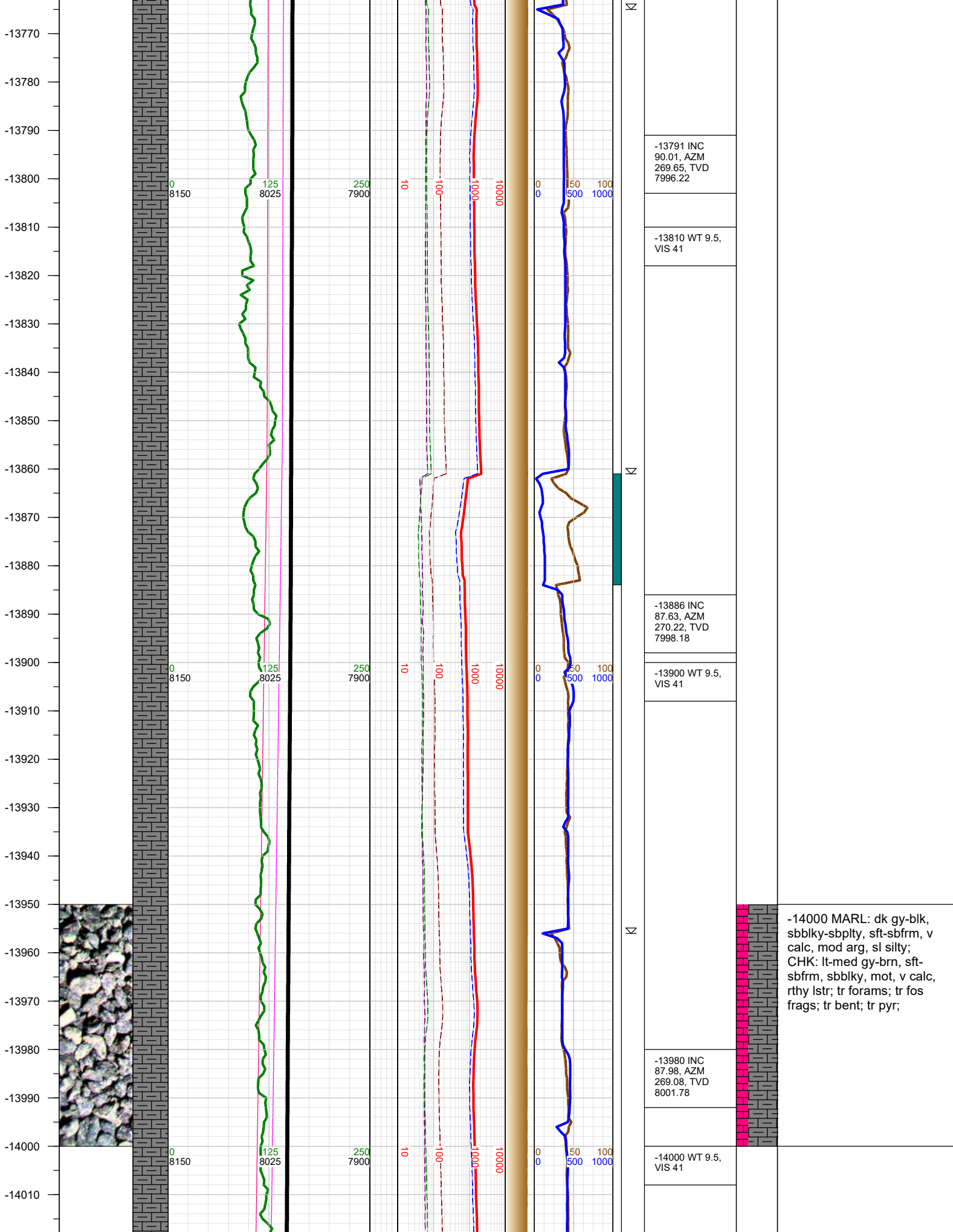
-13410 INC
89.57, AZM
270.84, TVD
7992.78

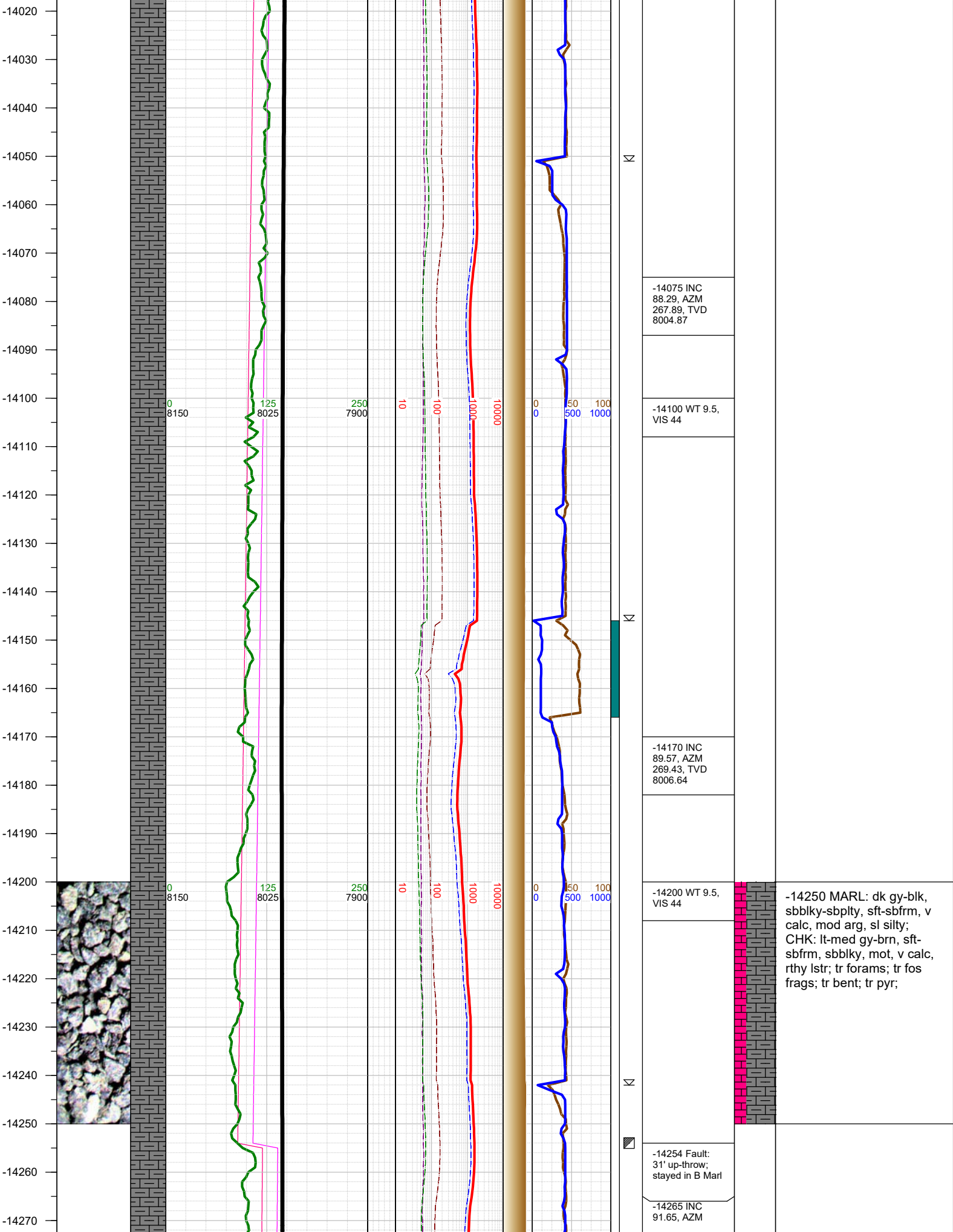
-13473 Fault:
42' up-throw;
went from B
Marl to C Chalk

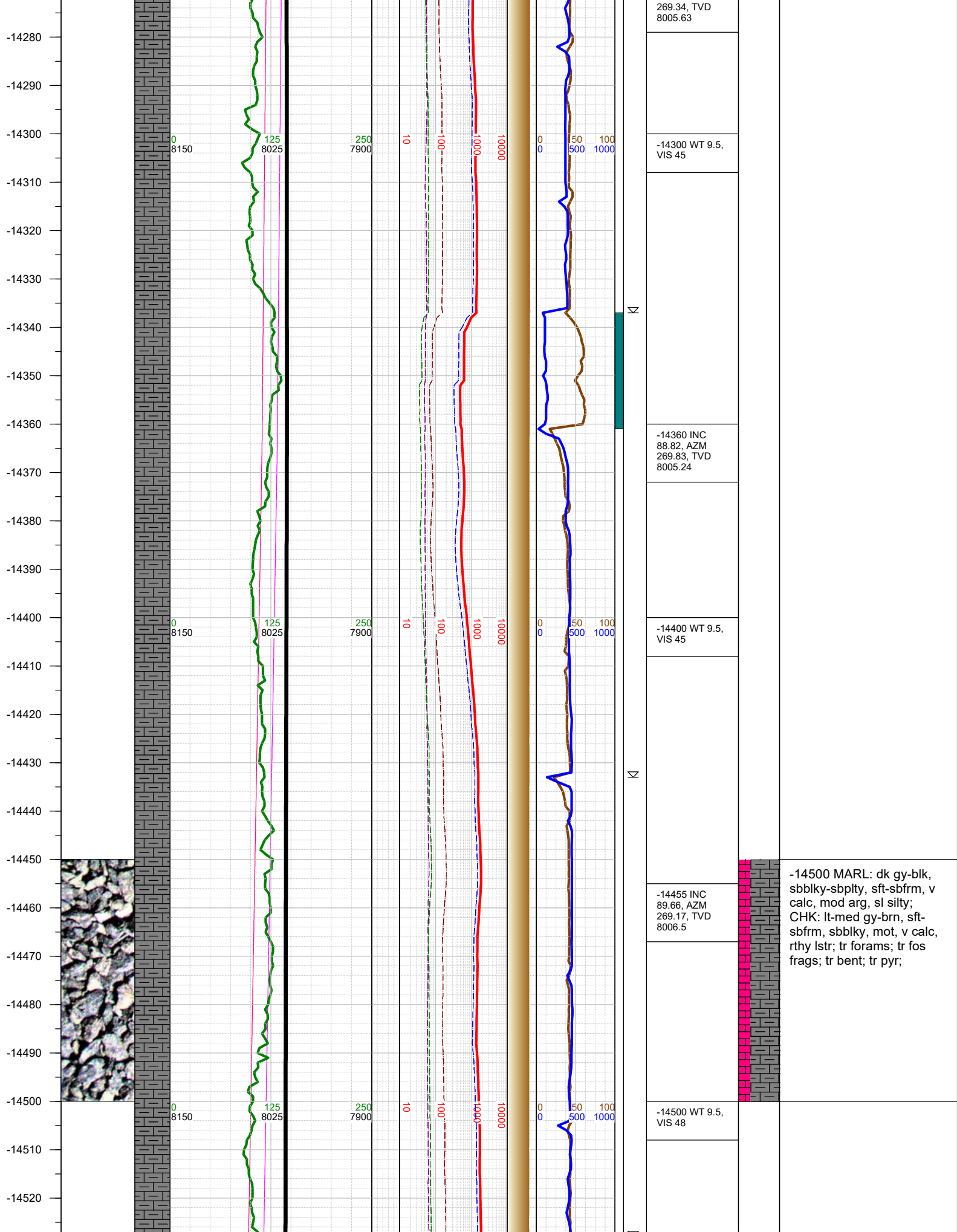
-13505 INC

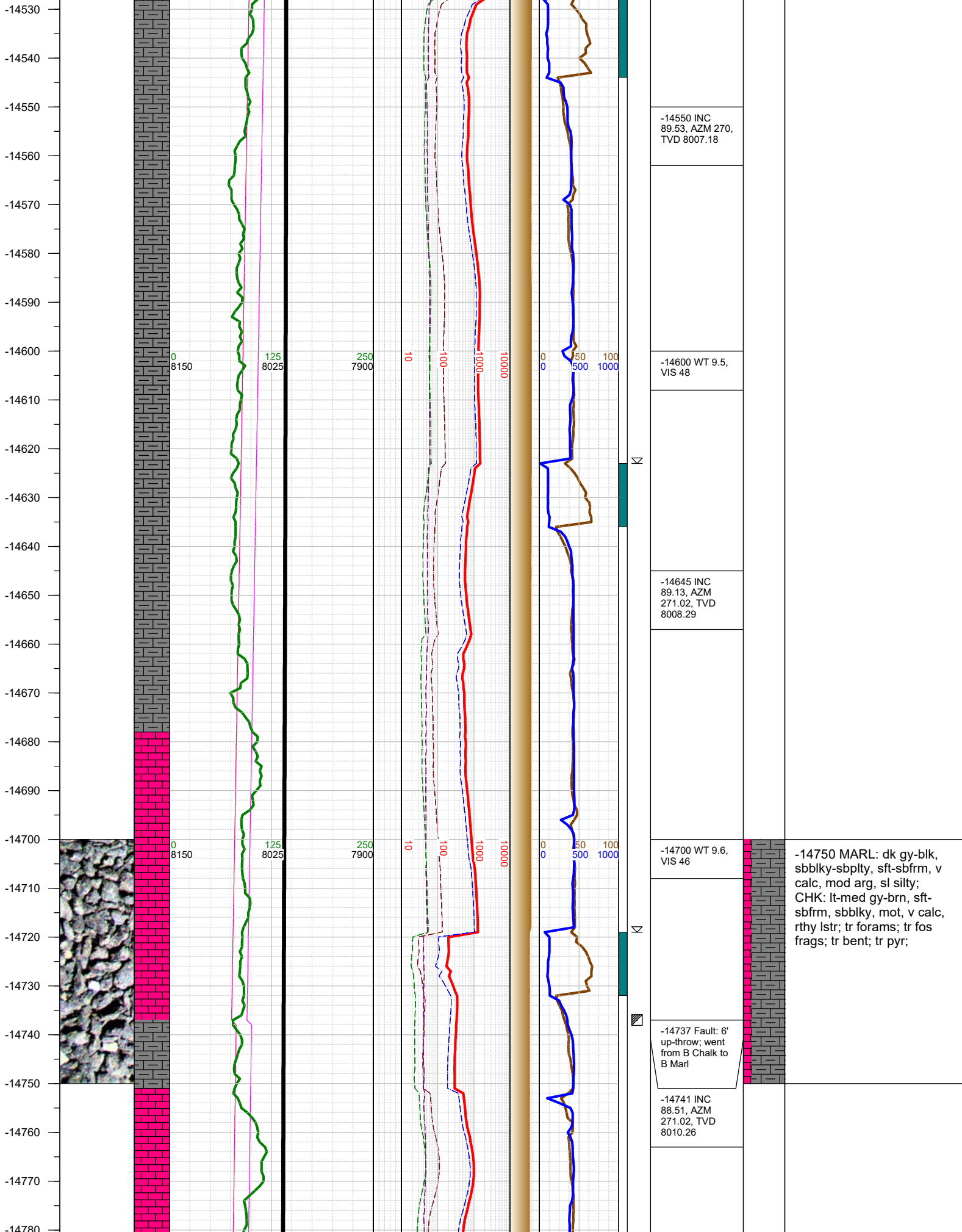
-13500 MARL: dk gy-blk,
sbbly-sbply, sft-sbfrm, v
calc, mod arg, sl silty;
CHK: lt-med gy-brn, sft-
sbfrm, sbbly, mot, v calc,
rthy lstr; tr forams; mod fos
frags; tr bent; tr pyr;

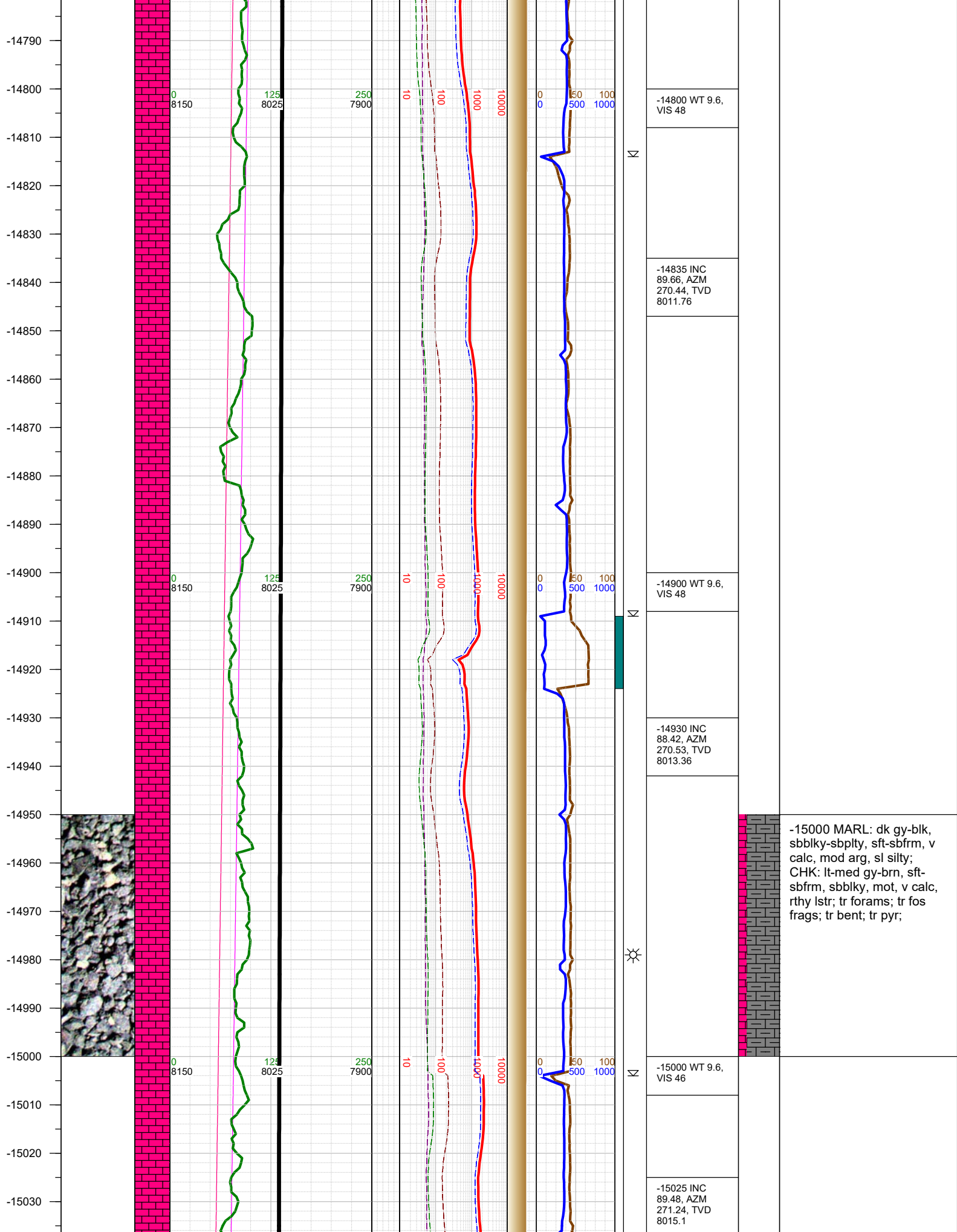


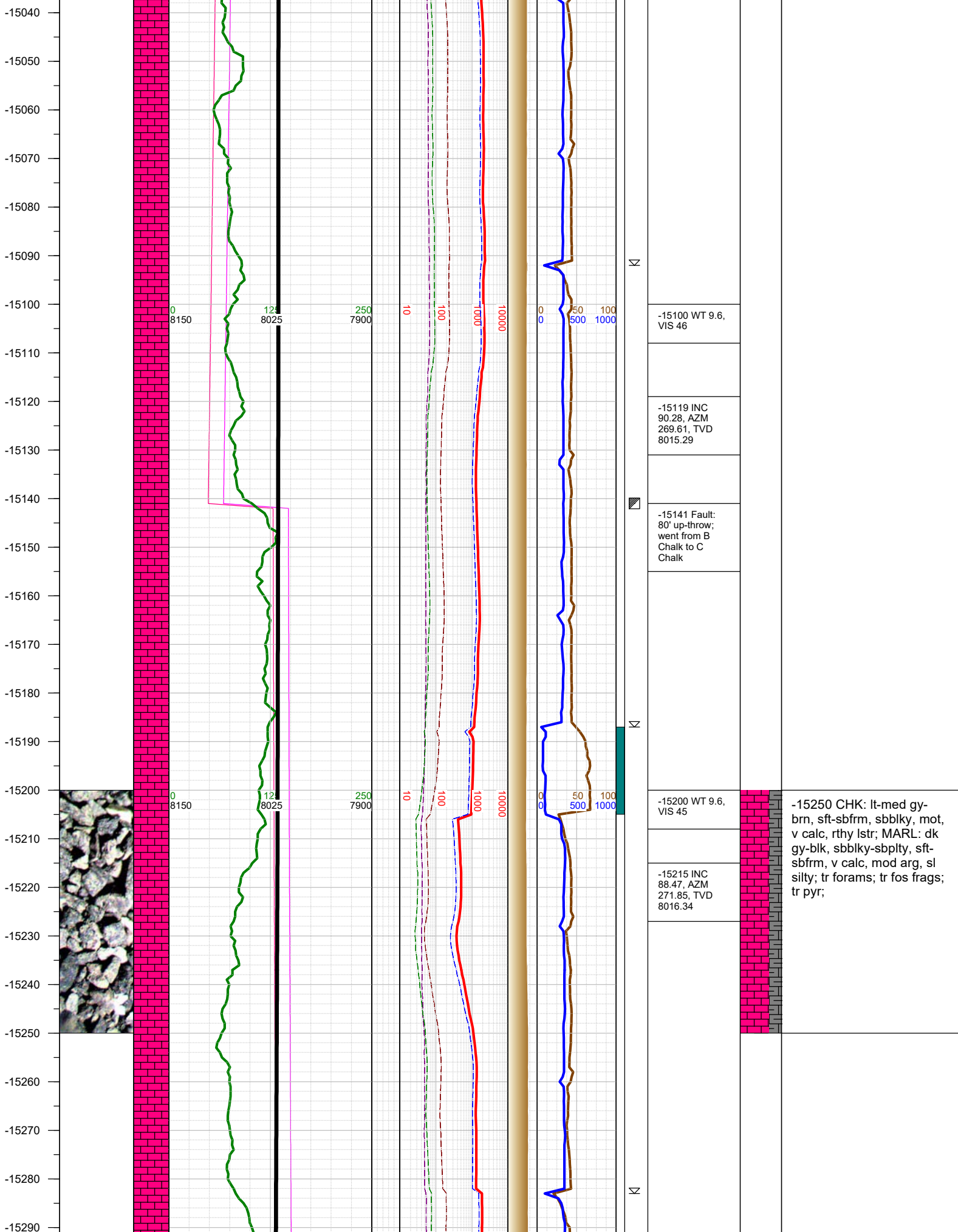


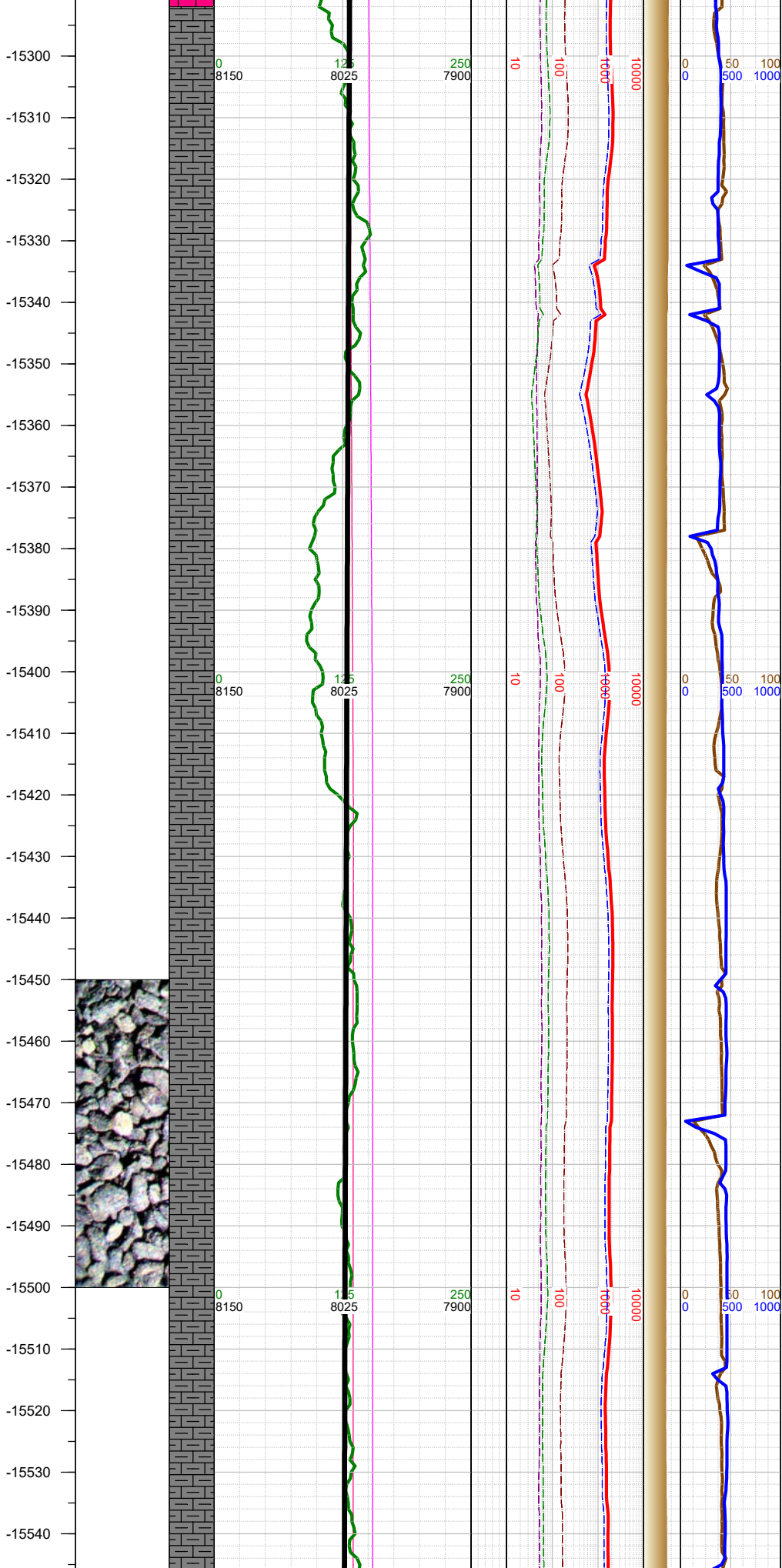






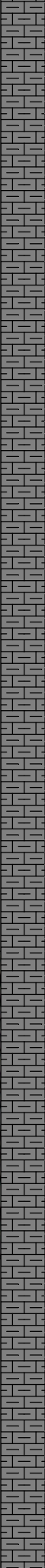






N	-15300 WT 9.6, VIS 45	
	-15309 INC 88.6, AZM 271.1, TVD 8018.74	
N	-15404 INC 88.78, AZM 270.62, TVD 8020.92	
	-15420 WT 9.6, VIS 45	
		-15500 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr forams; mod fos frags; tr bent; tr pyr;
	-15500 INC 89.09, AZM 270, TVD 8022.7	
	-15520 WT 9.6, VIS 45	

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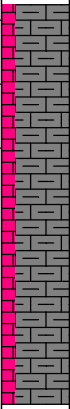
-15594 INC
89.4, AZM
268.28, TVD
8023.94

-15610 WT 9.6,
VIS 44

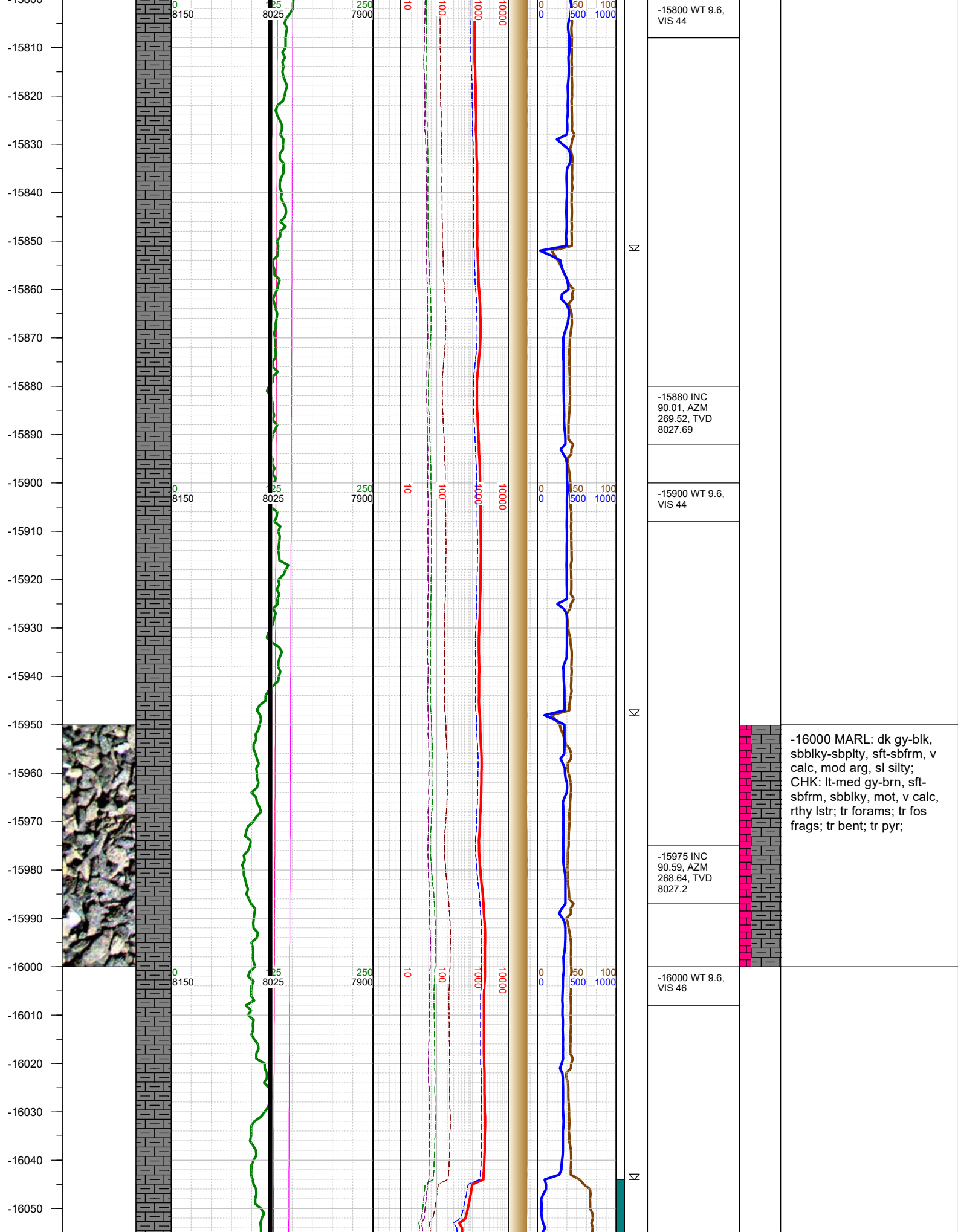
-15690 INC
88.78, AZM
270.71, TVD
8025.46

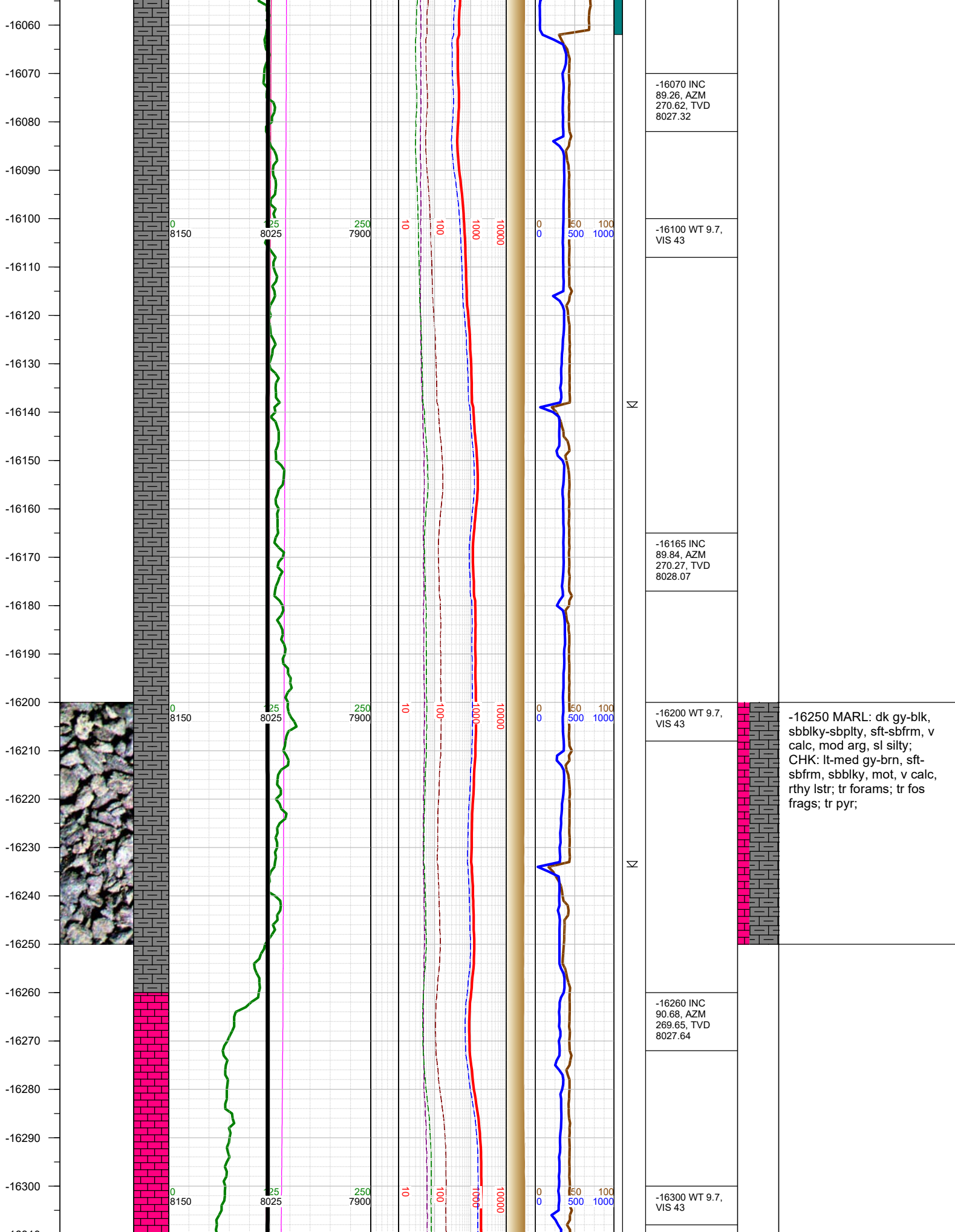
-15710 WT 9.6,
VIS 44

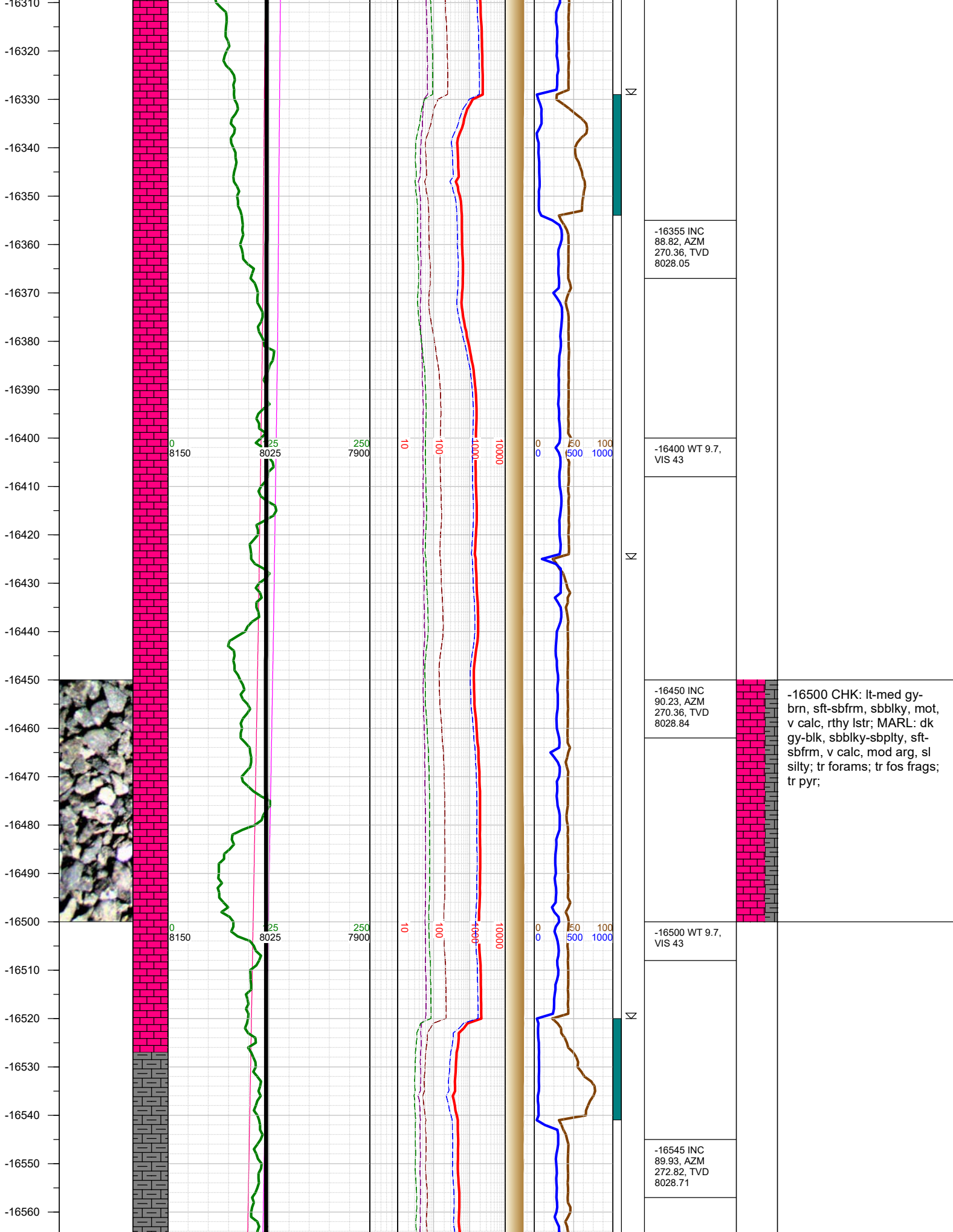
-15785 INC
89.26, AZM
269.65, TVD
8027.09

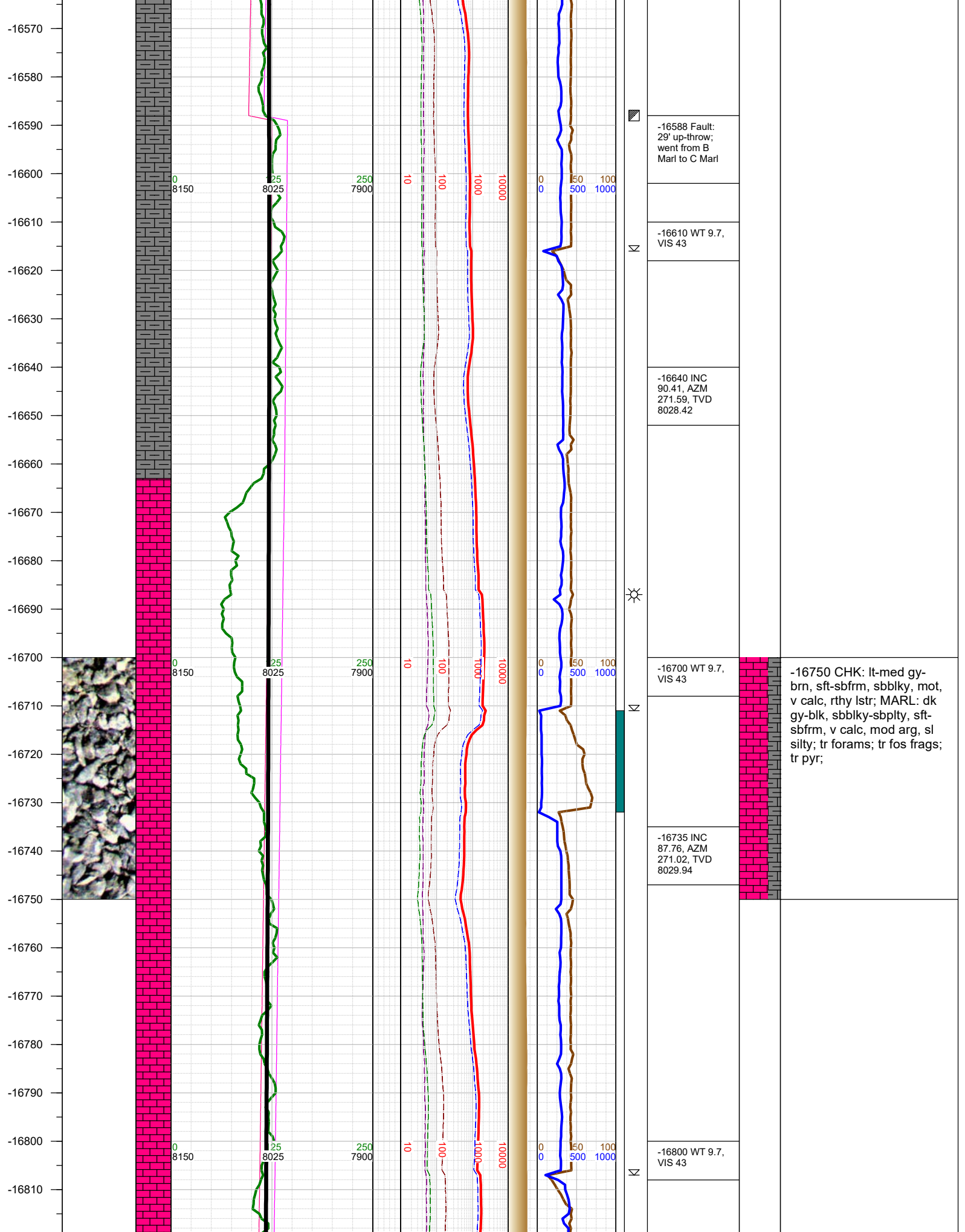


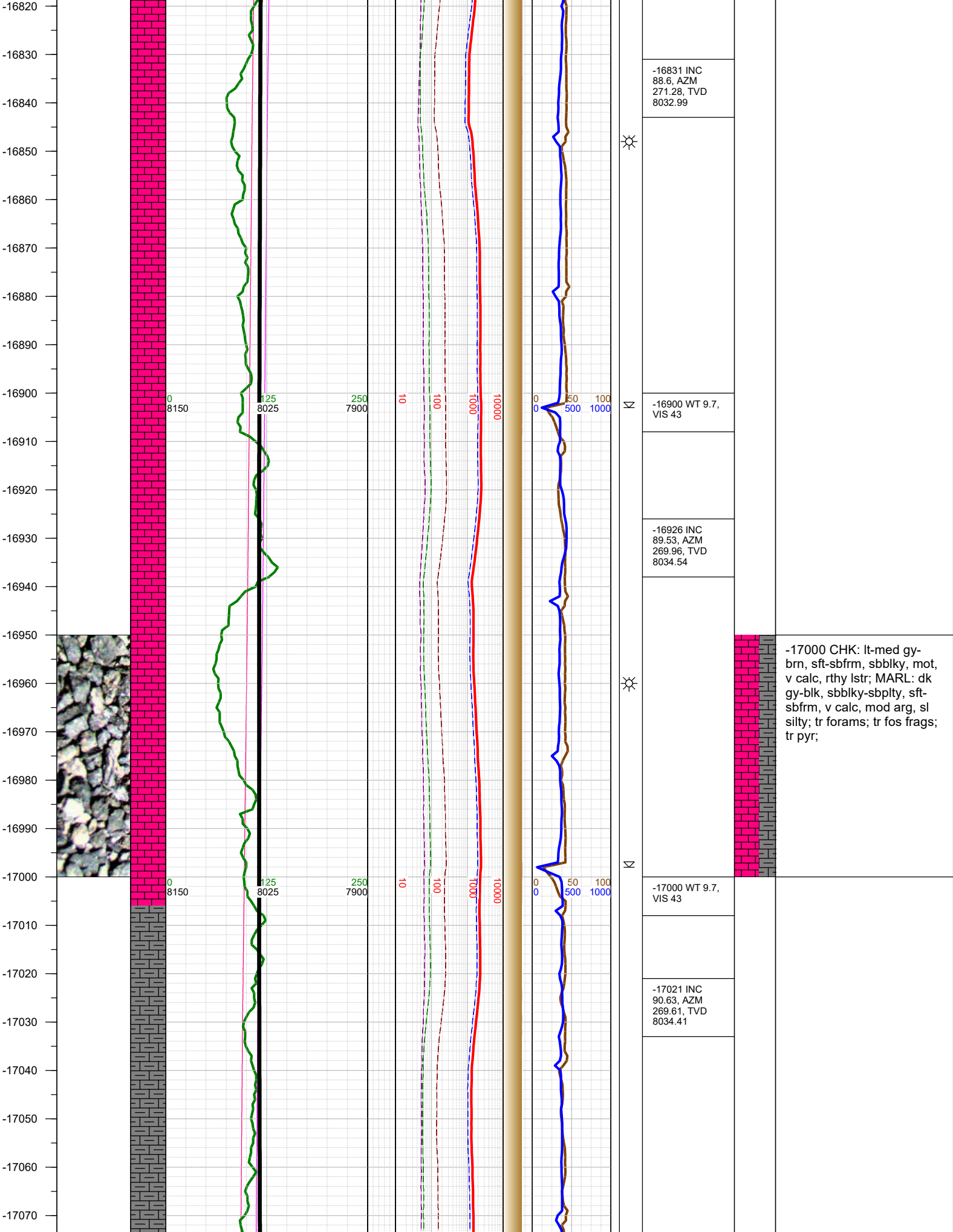
-15750 MARL: dk gy-blk,
sbbly-sbply, sft-sbfrm, v
calc, mod arg, sl silty;
CHK: lt-med gy-brn, sft-
sbfrm, sbbly, mot, v calc,
rthy lstr; tr forams; tr fos
frags; tr bent; tr pyr;



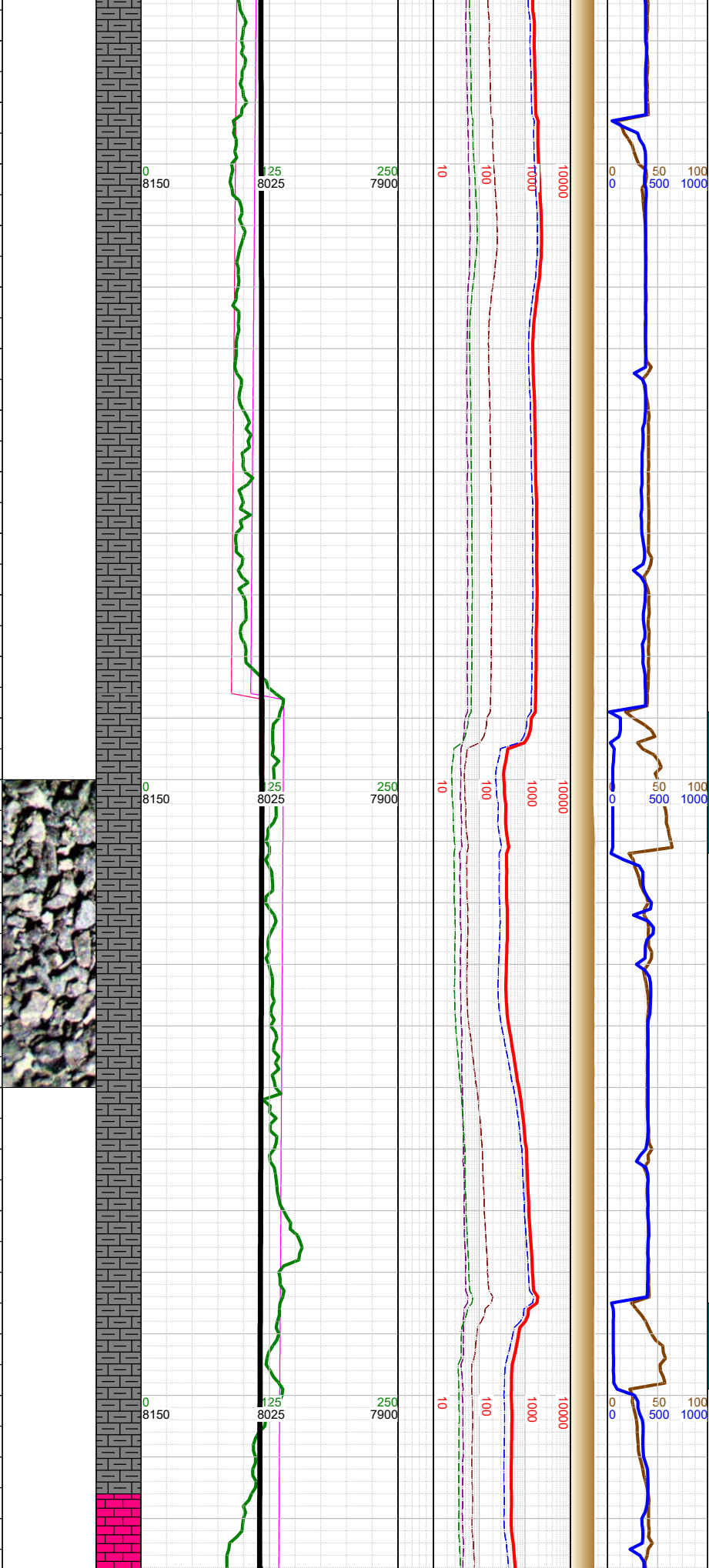








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-17100 WT 9.7,
VIS 43

-17116 INC
91.21, AZM
268.37, TVD
8032.88

-17175 0000 hrs
on 7/19/2019

-17186 Fault:
32' up-throw;
went from B
Marl to C Marl

-17200 WT 9.7,
VIS 43

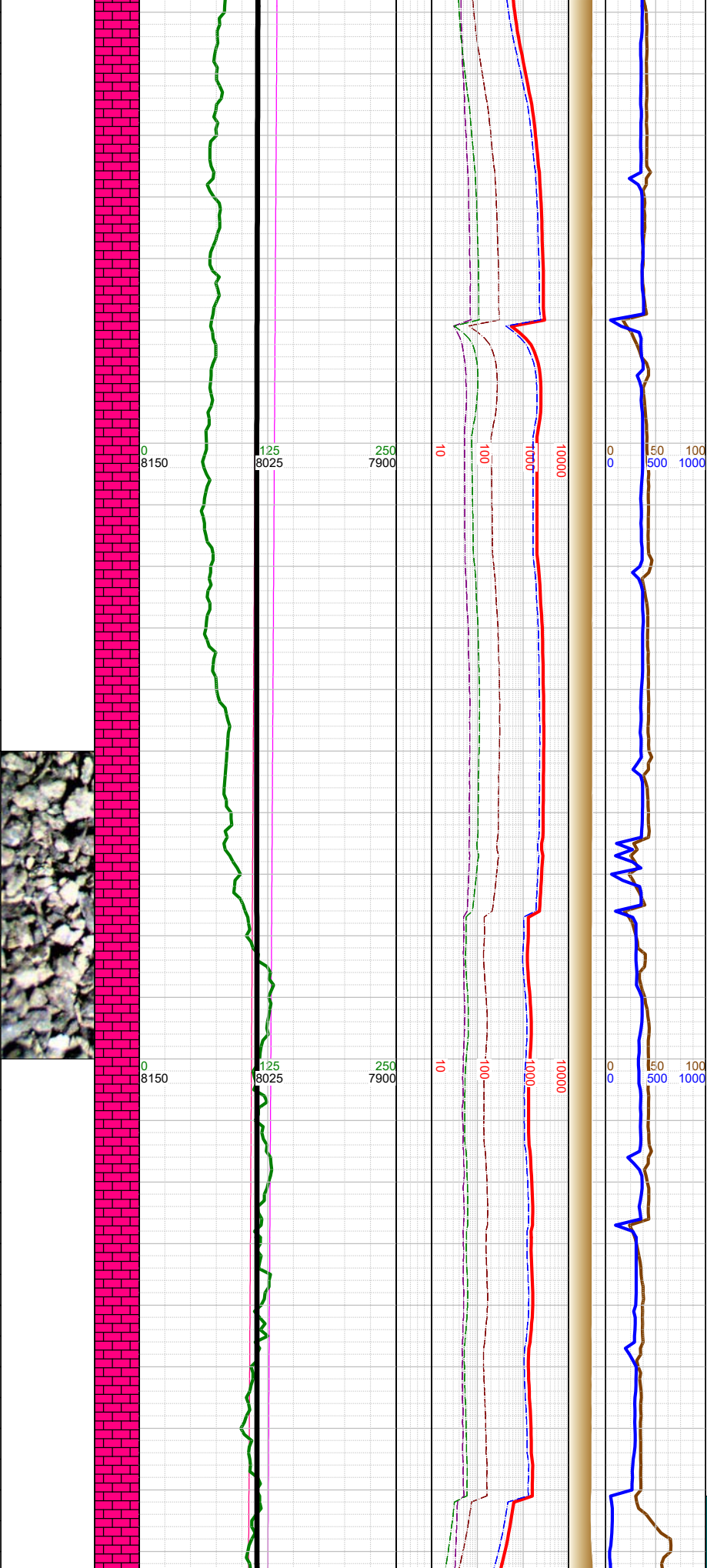
-17211 INC
89.13, AZM
268.64, TVD
8032.6

-17306 INC
88.69, AZM
269.96, TVD
8034.41

-17320 WT 9.7,
VIS 43

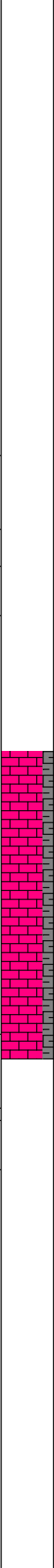
-17250 MARL: dk gy-blk,
sbbkly-sbplty, sft-sbfrm, v
calc, mod arg, sl silty;
CHK: lt-med gy-brn, sft-
sbfrm, sbbkly, mot, v calc,
rthy lstr; tr forams; tr fos
frags; tr pyr;

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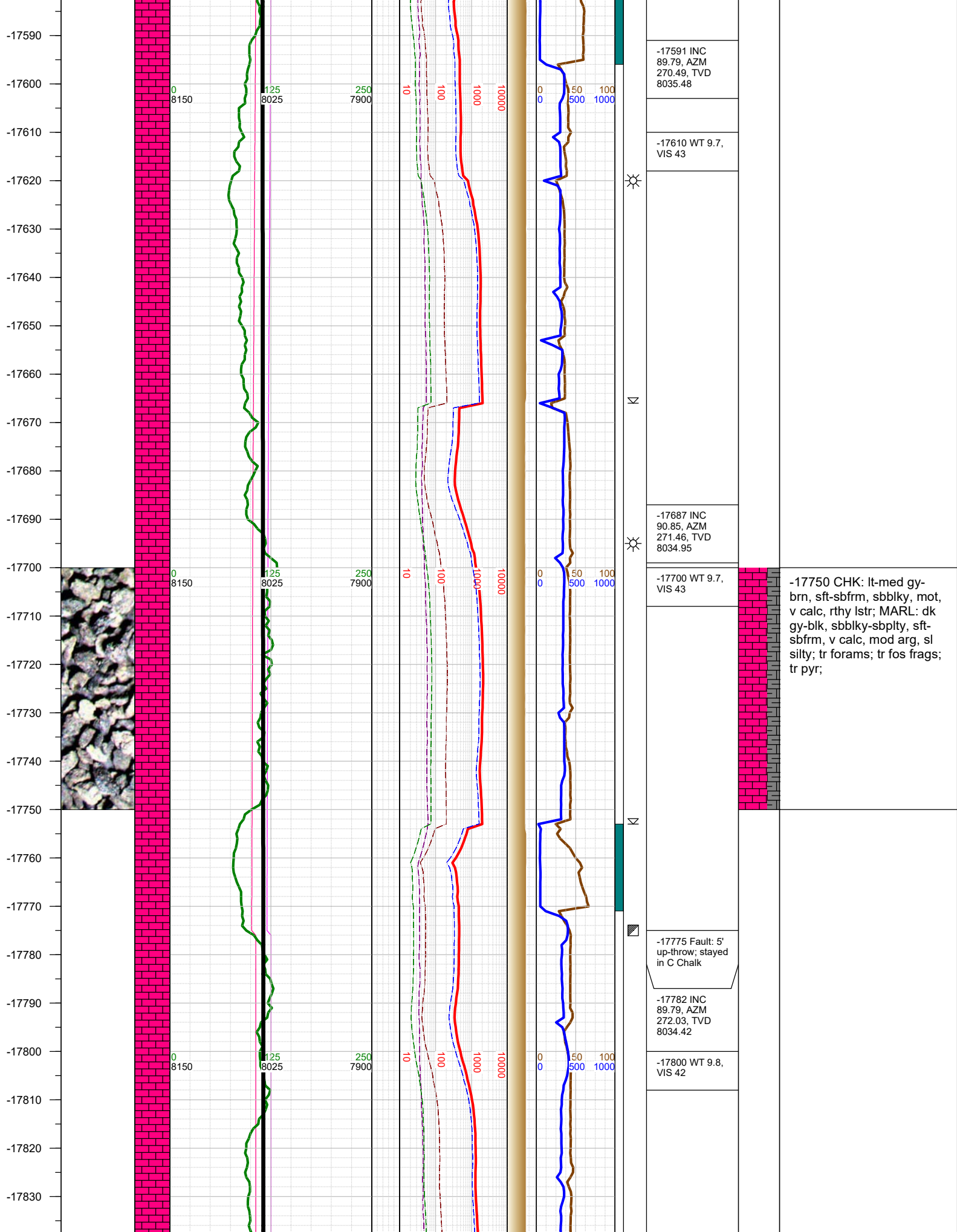


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-17402 INC 89.62, AZM 269.56, TVD 8035.82
-17420 WT 9.7, VIS 43
-17496 INC 90.5, AZM 268.95, TVD 8035.72
-17510 WT 9.7, VIS 43



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



-17591 INC
89.79, AZM
270.49, TVD
8035.48

-17610 WT 9.7,
VIS 43

-17687 INC
90.85, AZM
271.46, TVD
8034.95

-17700 WT 9.7,
VIS 43

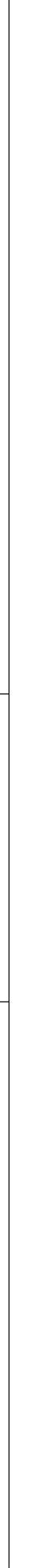
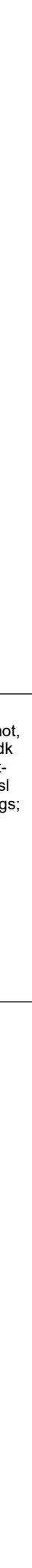
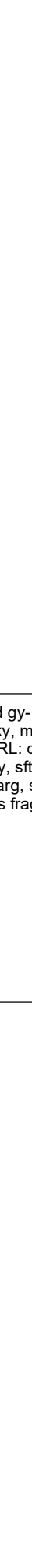
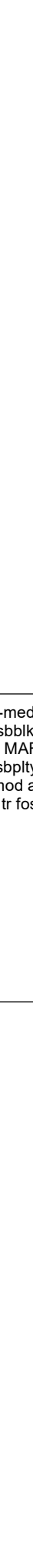
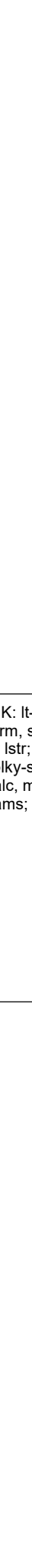
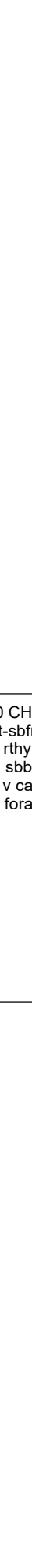
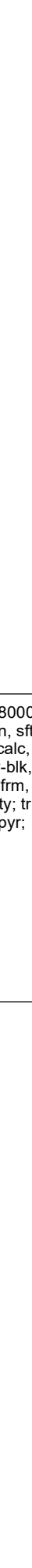
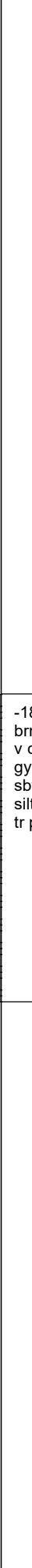
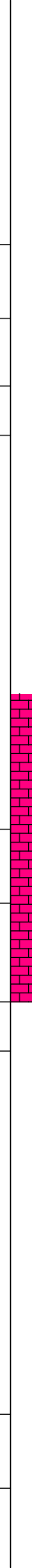
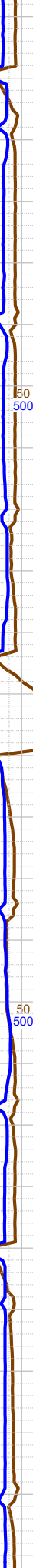
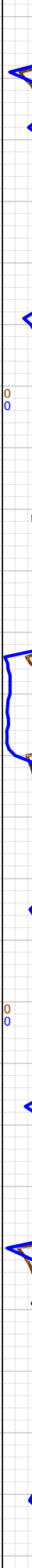
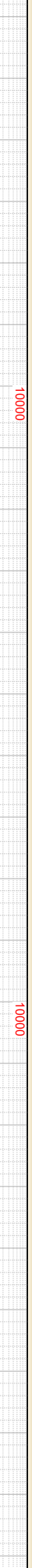
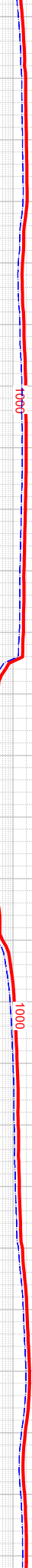
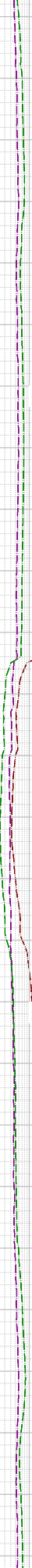
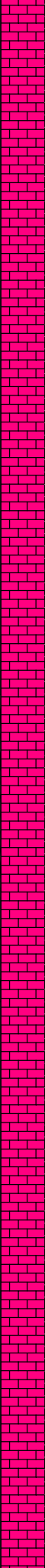
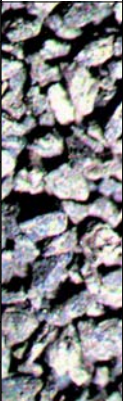
-17750 CHK: lt-med gy-
brn, sft-sbfrm, sbblky, mot,
v calc, rthy lstr; MARL: dk
gy-blk, sbblky-sbplty, sft-
sbfrm, v calc, mod arg, sl
silty; tr forams; tr fos frags;
tr pyr;

-17775 Fault: 5'
up-throw; stayed
in C Chalk

-17782 INC
89.79, AZM
272.03, TVD
8034.42

-17800 WT 9.8,
VIS 42

-17840
-17850
-17860
-17870
-17880
-17890
-17900
-17910
-17920
-17930
-17940
-17950
-17960
-17970
-17980
-17990
-18000
-18010
-18020
-18030
-18040
-18050
-18060
-18070
-18080
-18090



-17877 INC
90.19, AZM
271.99, TVD
8034.43

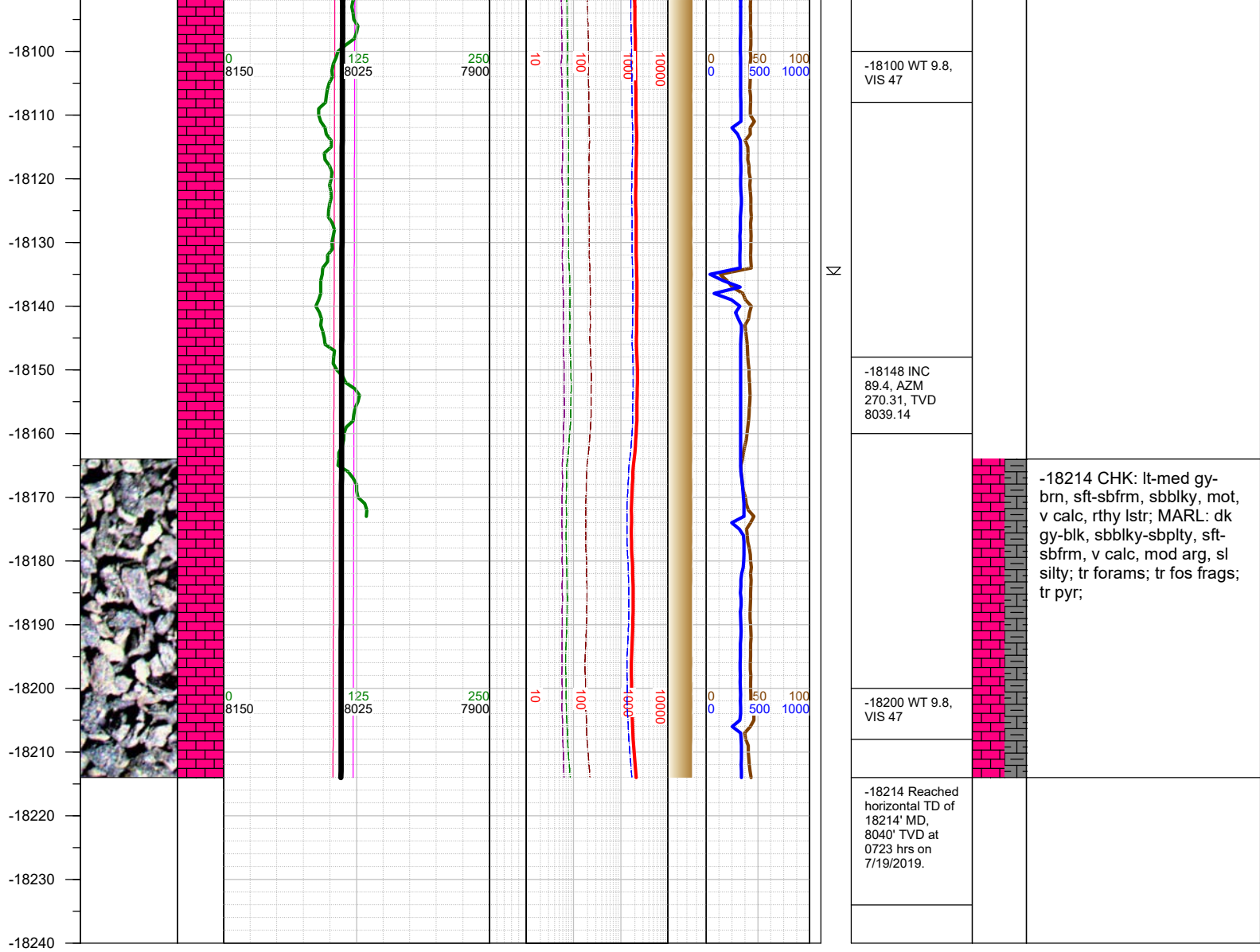
-17900 WT 9.8,
VIS 42

-17972 INC
88.38, AZM
271.55, TVD
8035.62

-18000 WT 9.8,
VIS 47

-18067 INC
88.86, AZM
271.59, TVD
8037.91

-18000 CHK: lt-med gy-brn, sft-sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; tr forams; tr fos frags; tr pyr;



TOTAL DEPTH = 18214'

Thank you for using Earth Science Agency