

OPERATOR: **Extraction Oil & Gas**
WELL NAME: **Rinn Valley East N17-20-2N**
FIELD NAME: DJ Basin - Wattenberg
DRILLING RIG: Patterson 901
API #: 05-123-47316

LAT/LONG: 40.13403, -105.023981
SURFACE HOLE: SWSE S17-T2N-R68W, 926' FSL, 1770' FEL
BOTTOM HOLE: S8-T2N-R68W, 460' FNL, 320' FEL

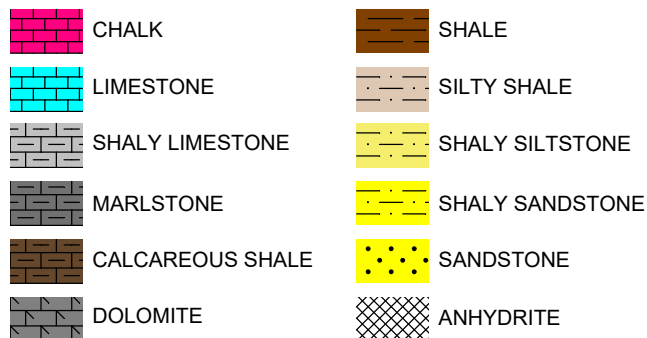


Earth Science Agency, LLC

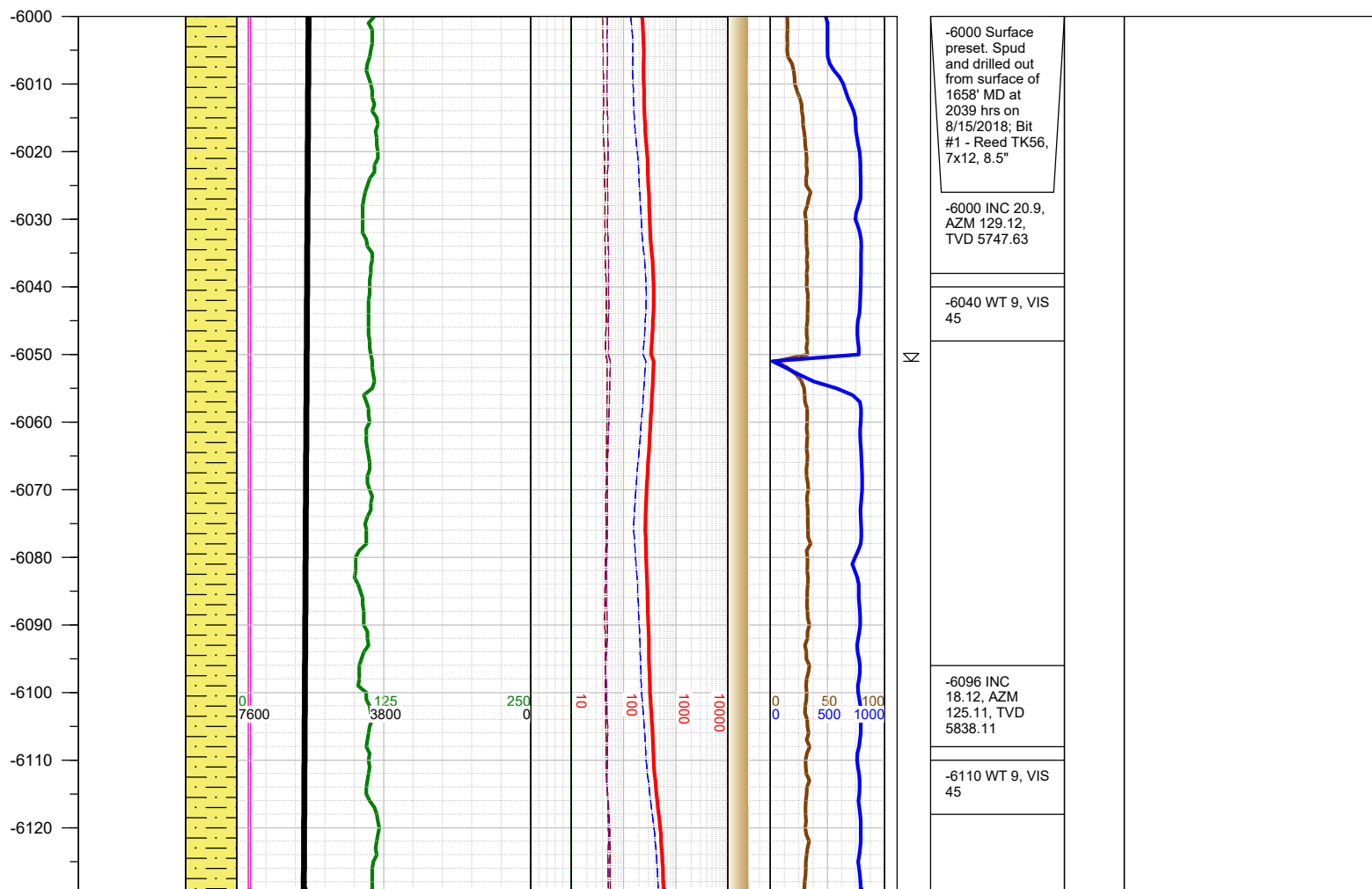
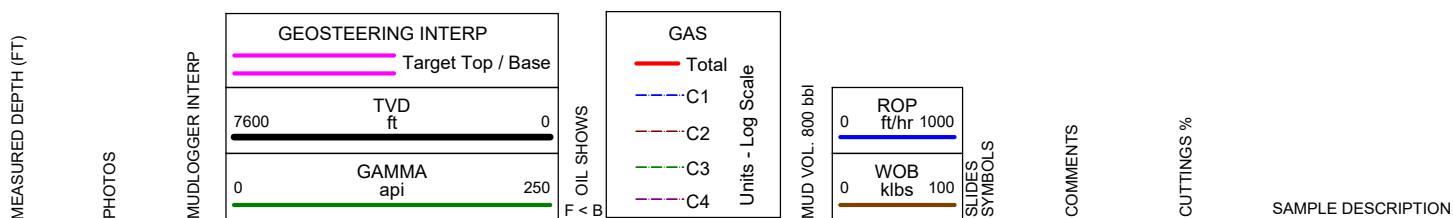
COUNTY: Weld
STATE: Colorado
GROUND ELEVATION: 4916'
KELLY BUSHING: 4945'
DRILLING FLUID: OBM
TVD VS. MD: 7217' / 17338'
SPUD DATE: August 15, 2018
TD DATE: August 19, 2018

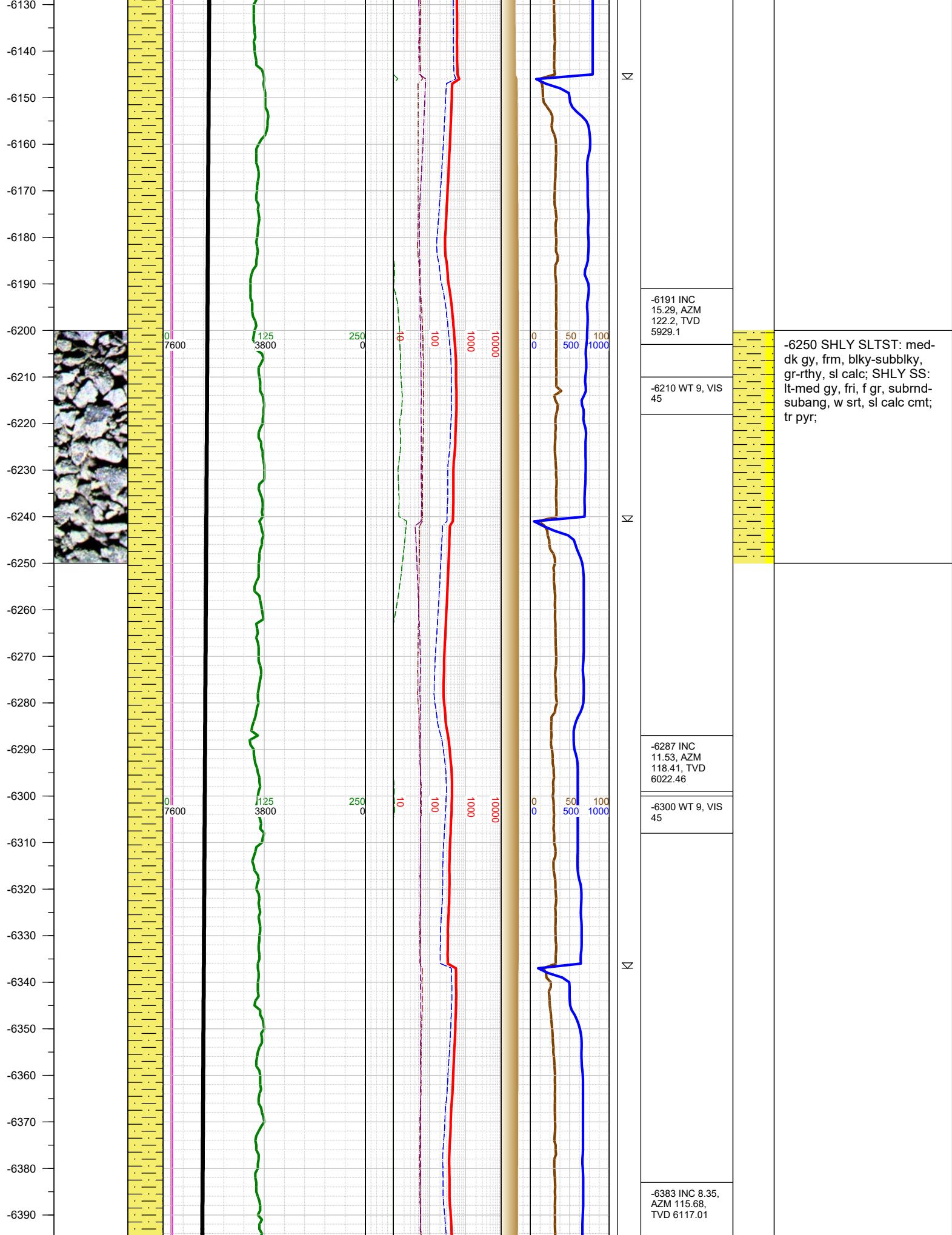
DEPTHS LOGGED: 6000' - 17338'
DATES LOGGED: August 16, 2018 - August 19, 2018
GEOLOGISTS: Blake Eatherton, Dan Jacobs
SCALE: 5" = 100'

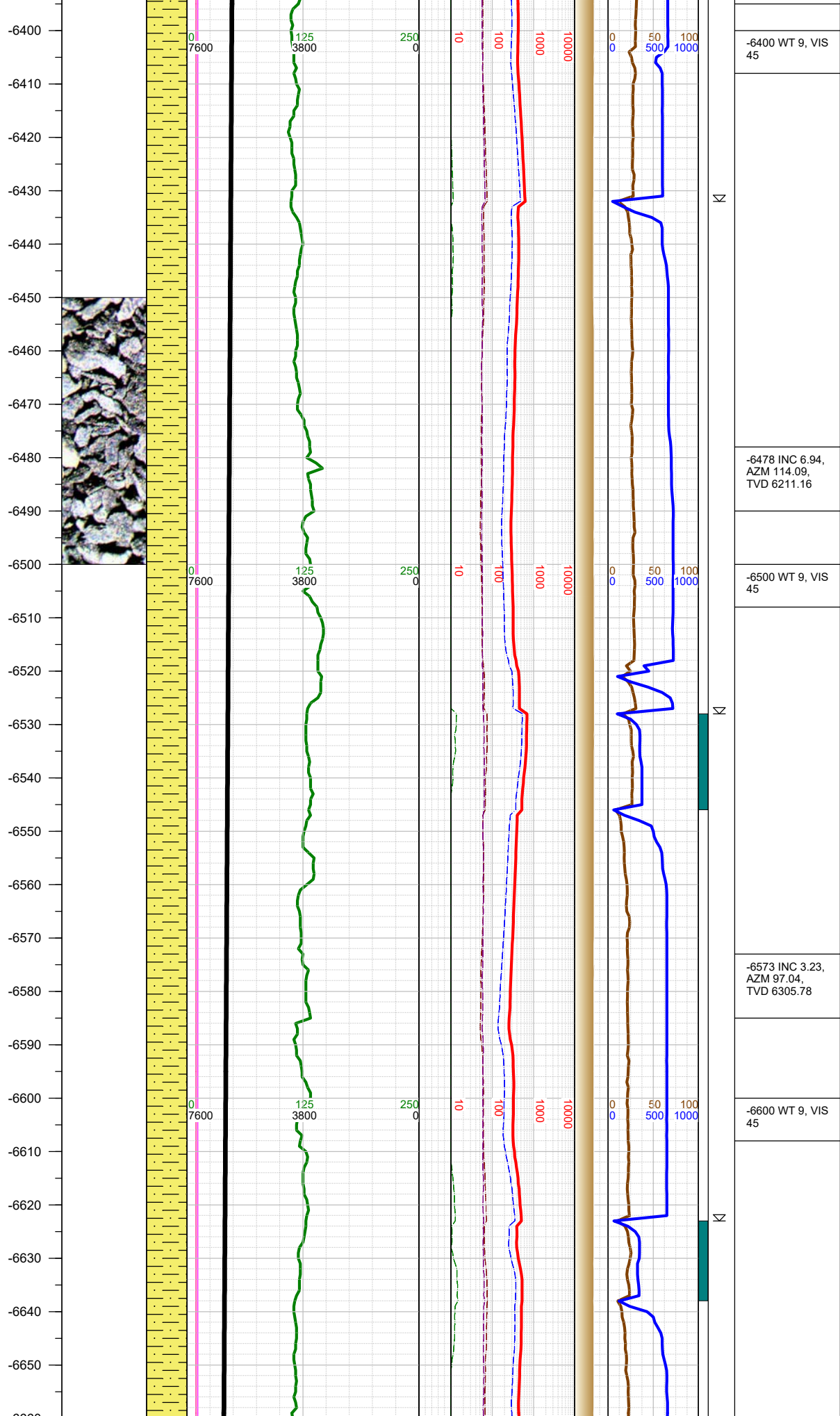
LEGEND



FORMATION CONNECTION MIDNIGHT NEW BIT GAS SHOW FAULT







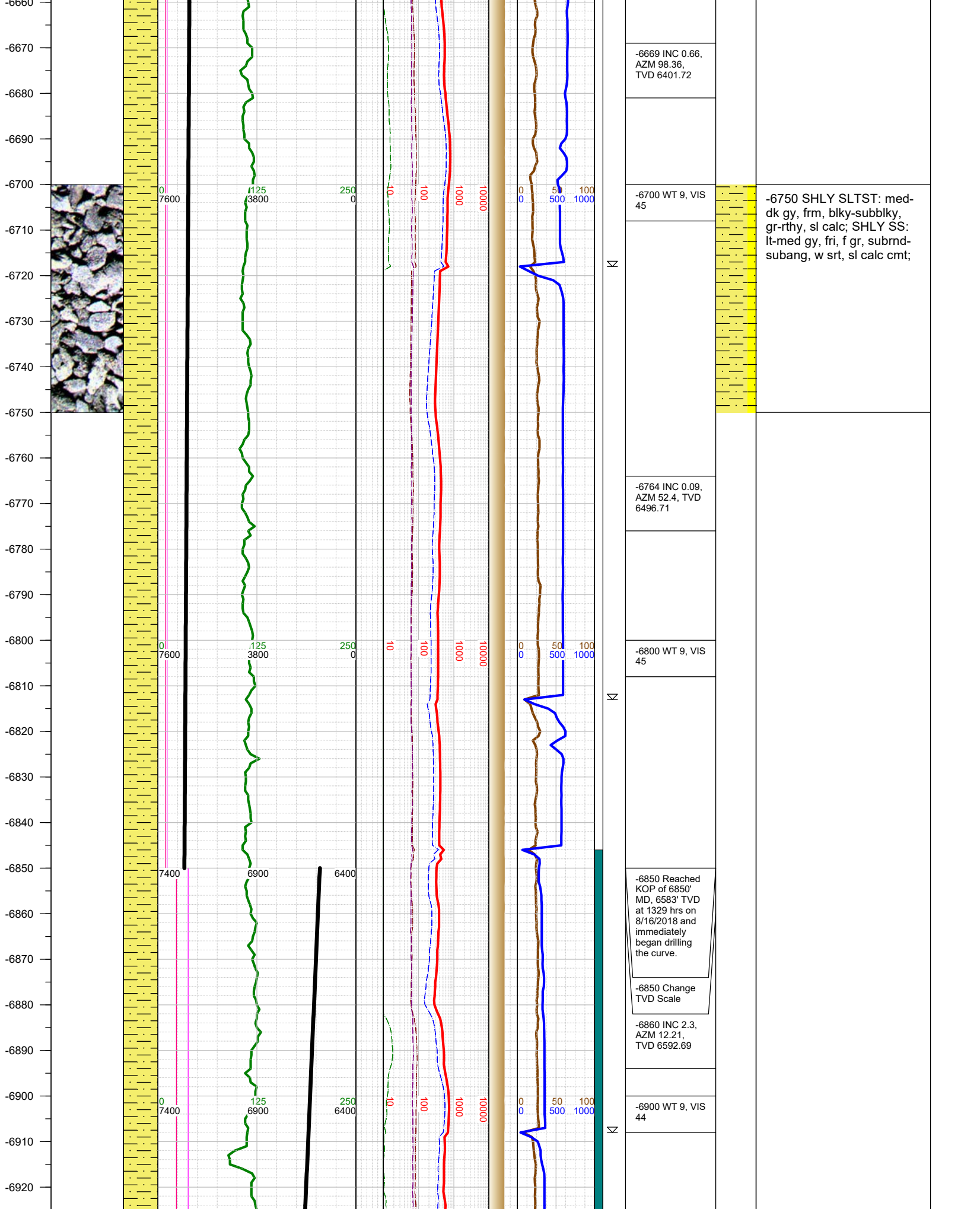
-6500 SHLY SLTST: med
dk gy, frm, blk-subblky,
gr-rthy, sl calc; SHLY SS:
lt-med gy, fri, f gr, subrnd-
subang, w srt, sl calc cmt;

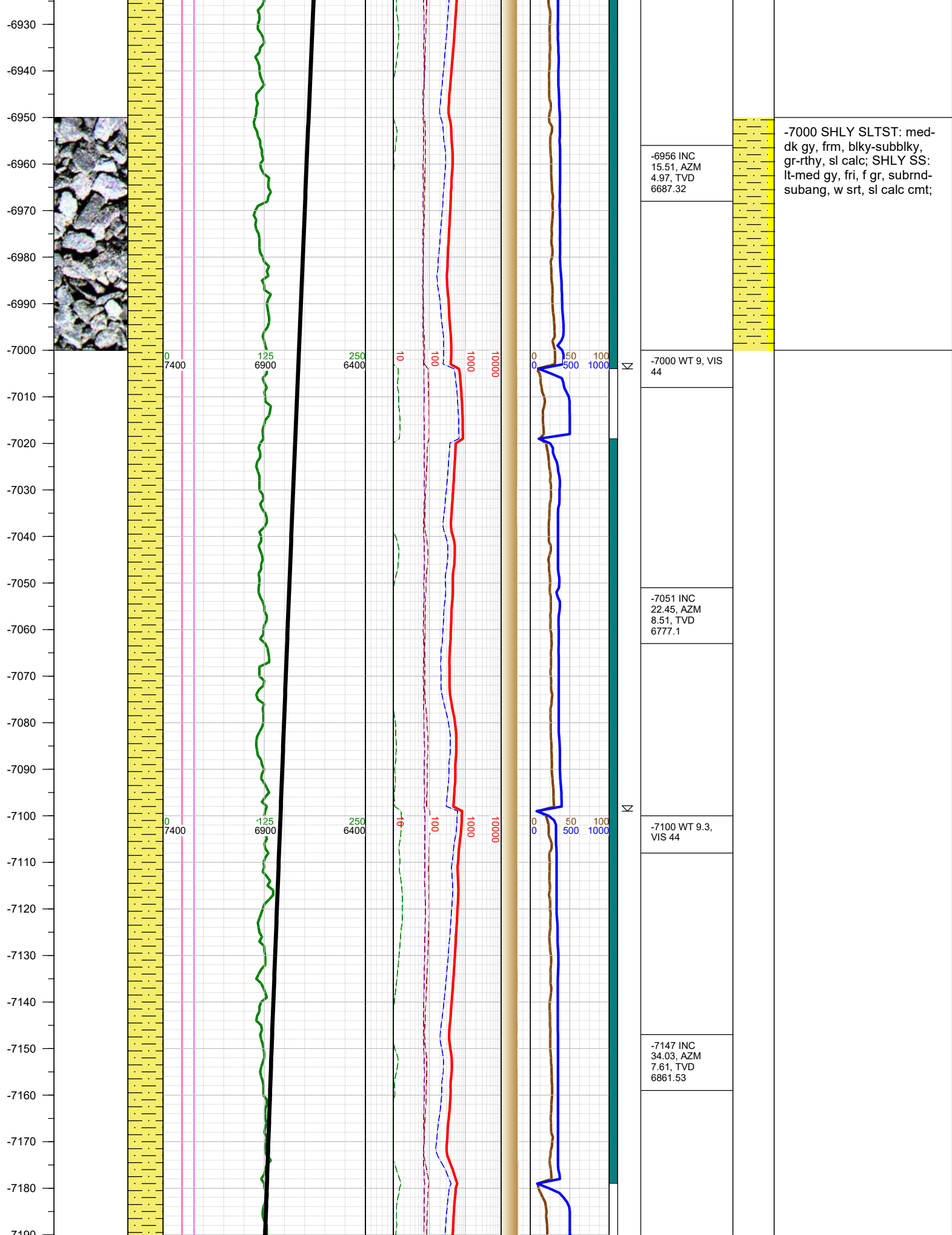
-6478 INC 6.94,
AZM 114.09,
TVD 6211.16

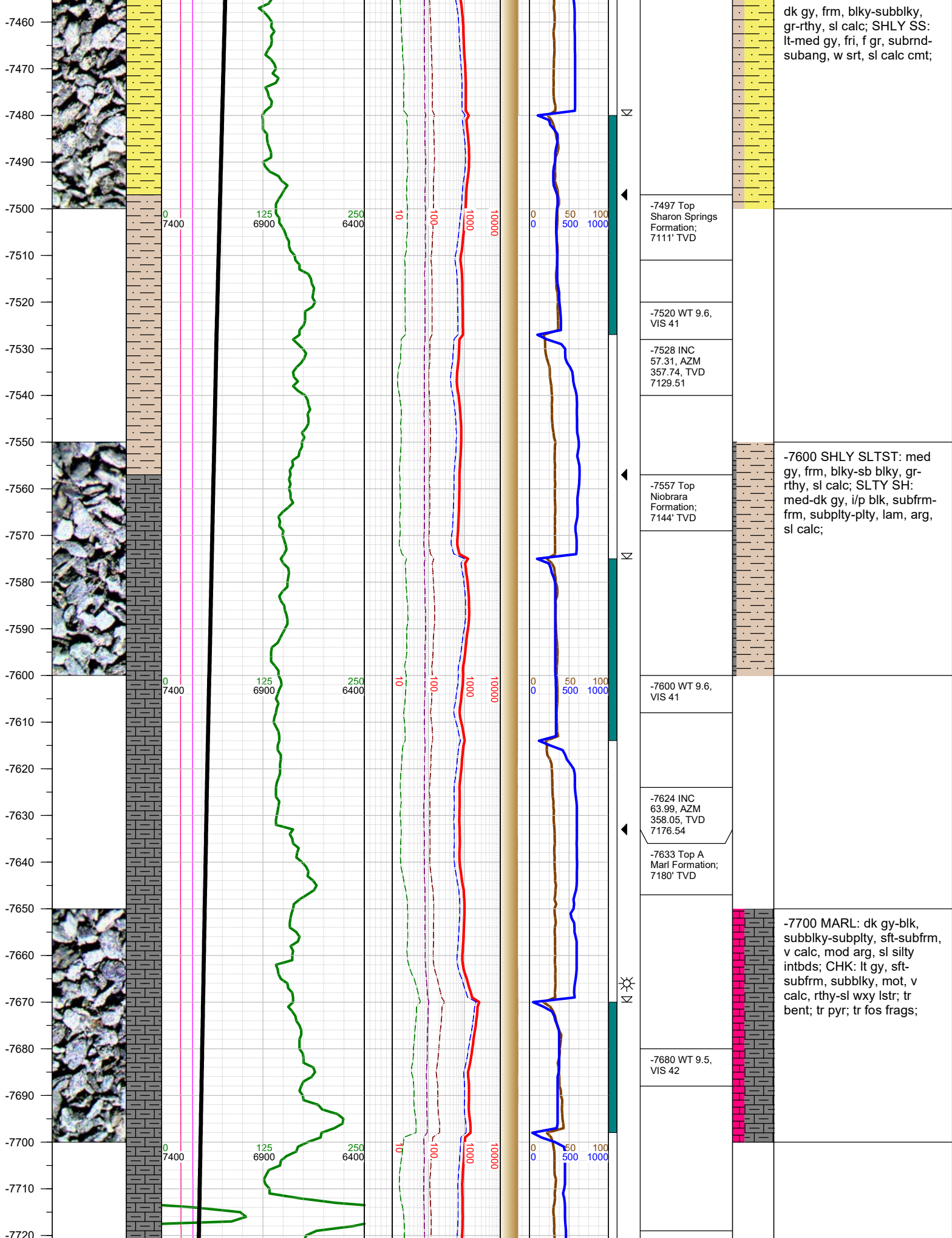
-6500 WT 9, VIS
45

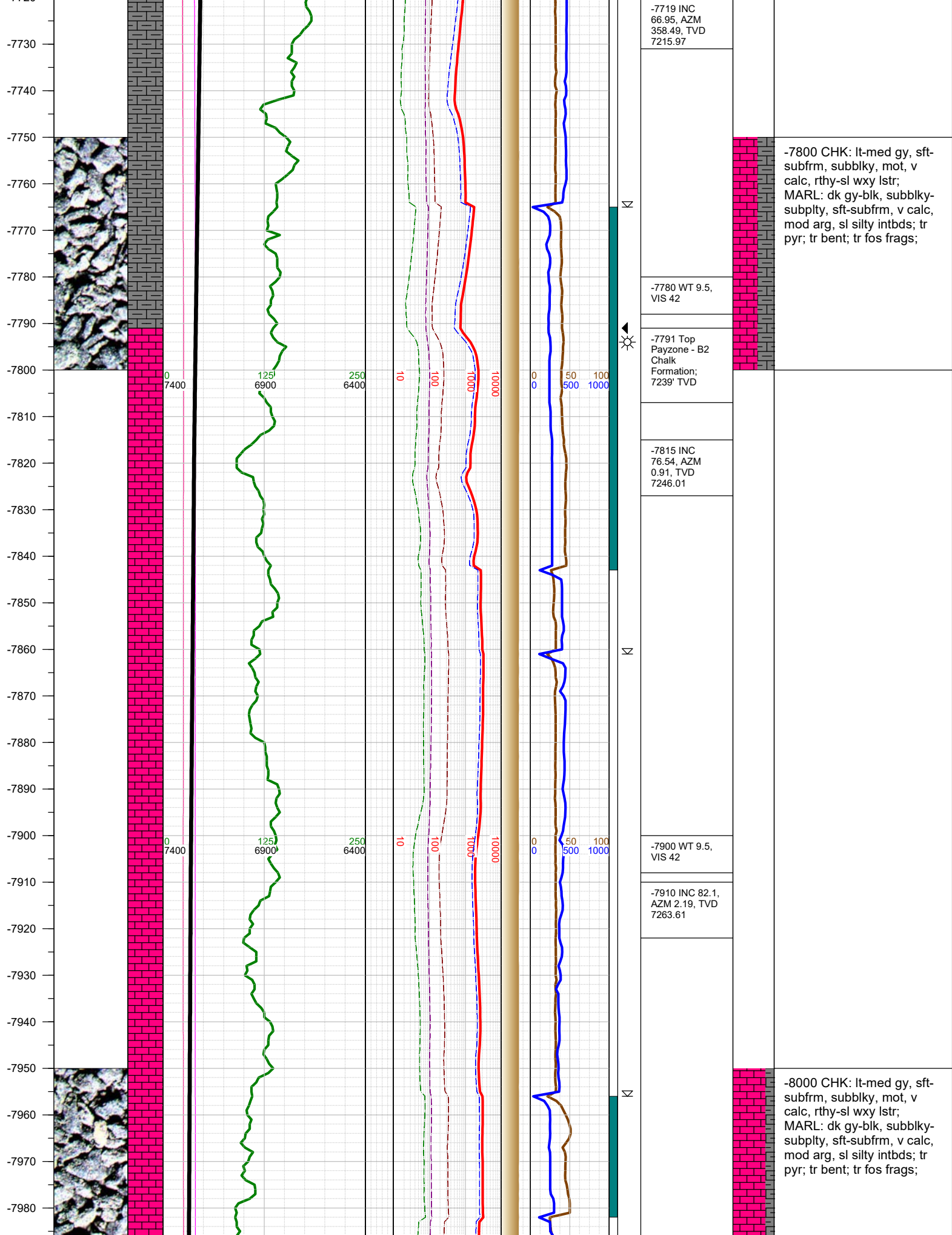
-6573 INC 3.23,
AZM 97.04,
TVD 6305.78

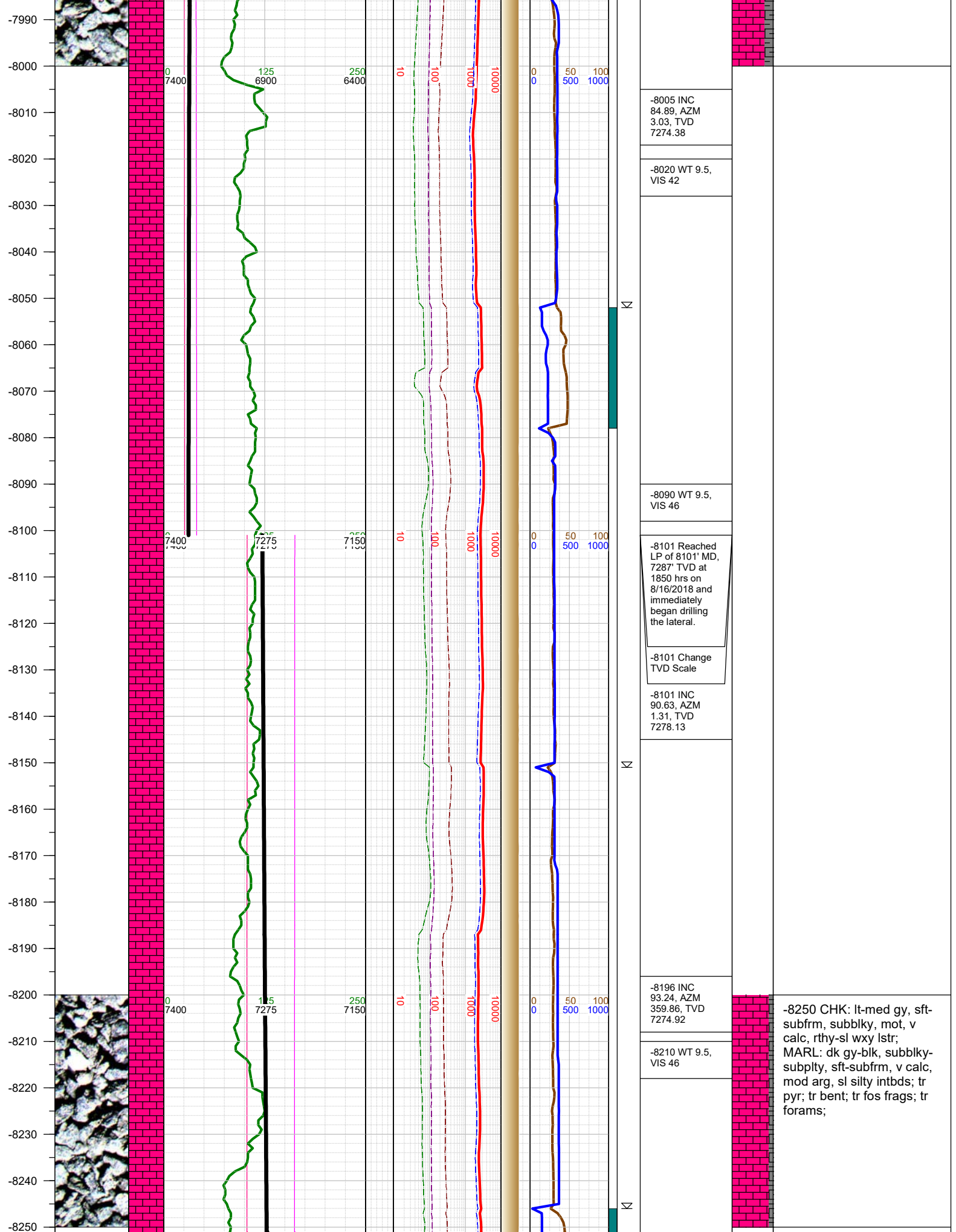
-6600 WT 9, VIS
45

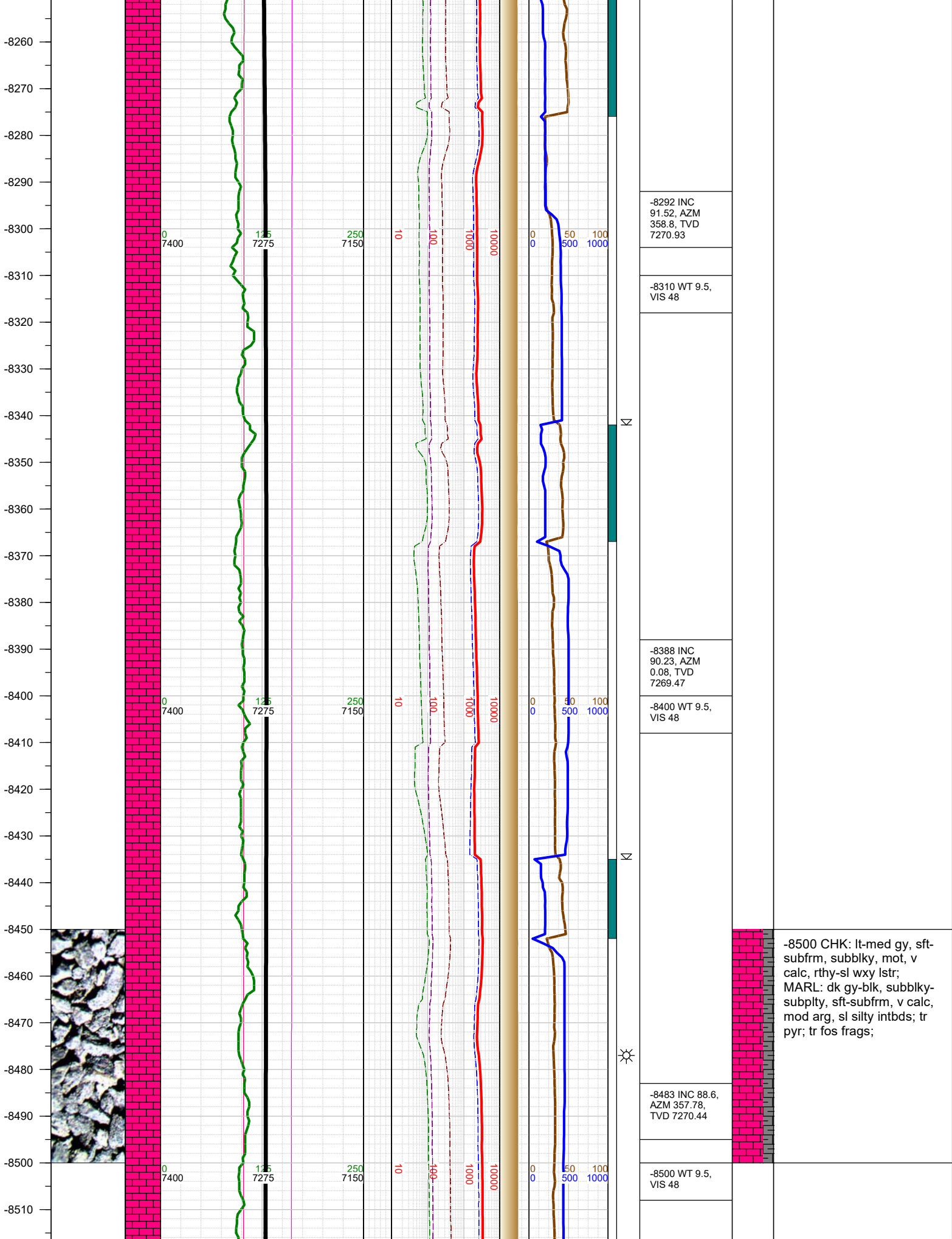


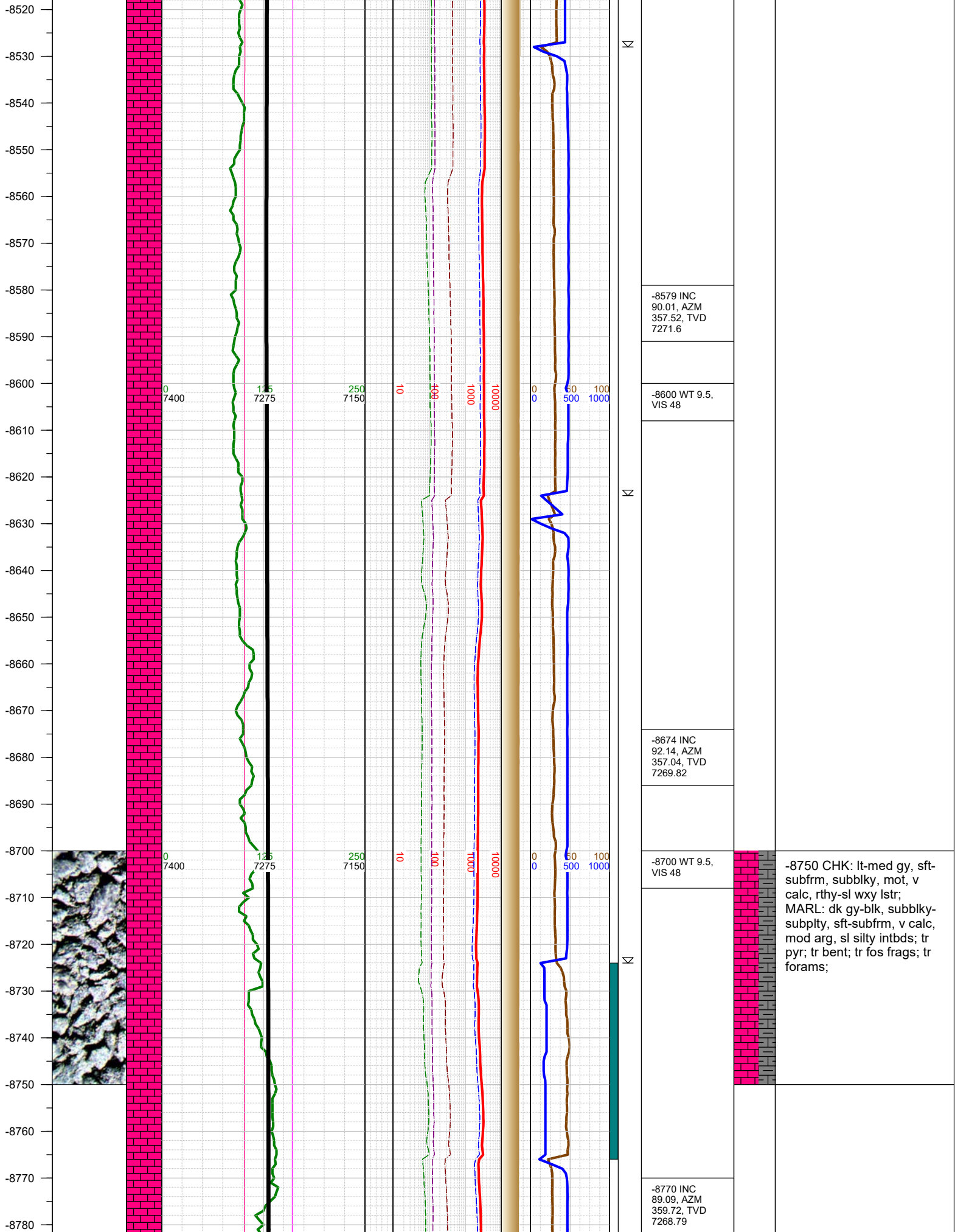


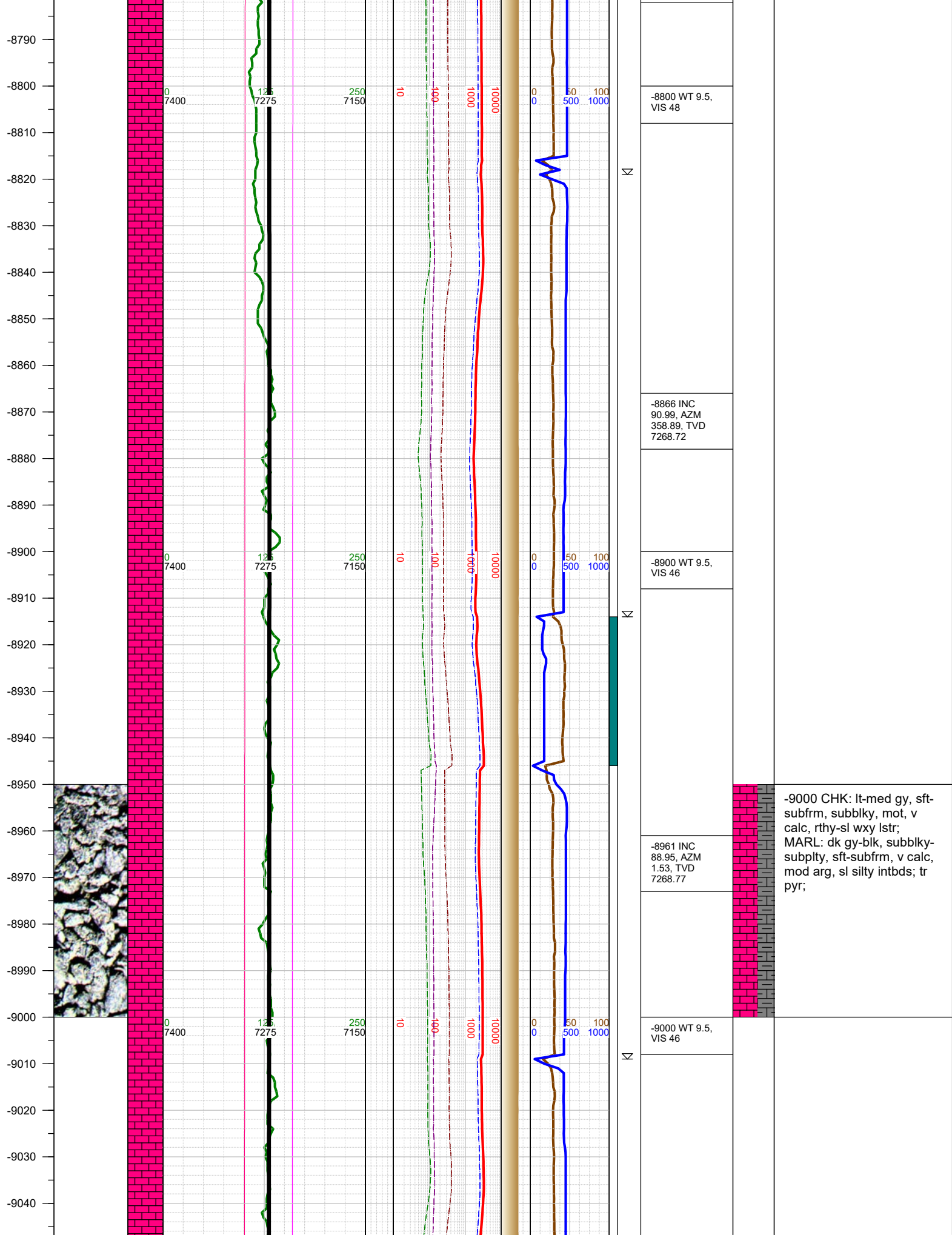


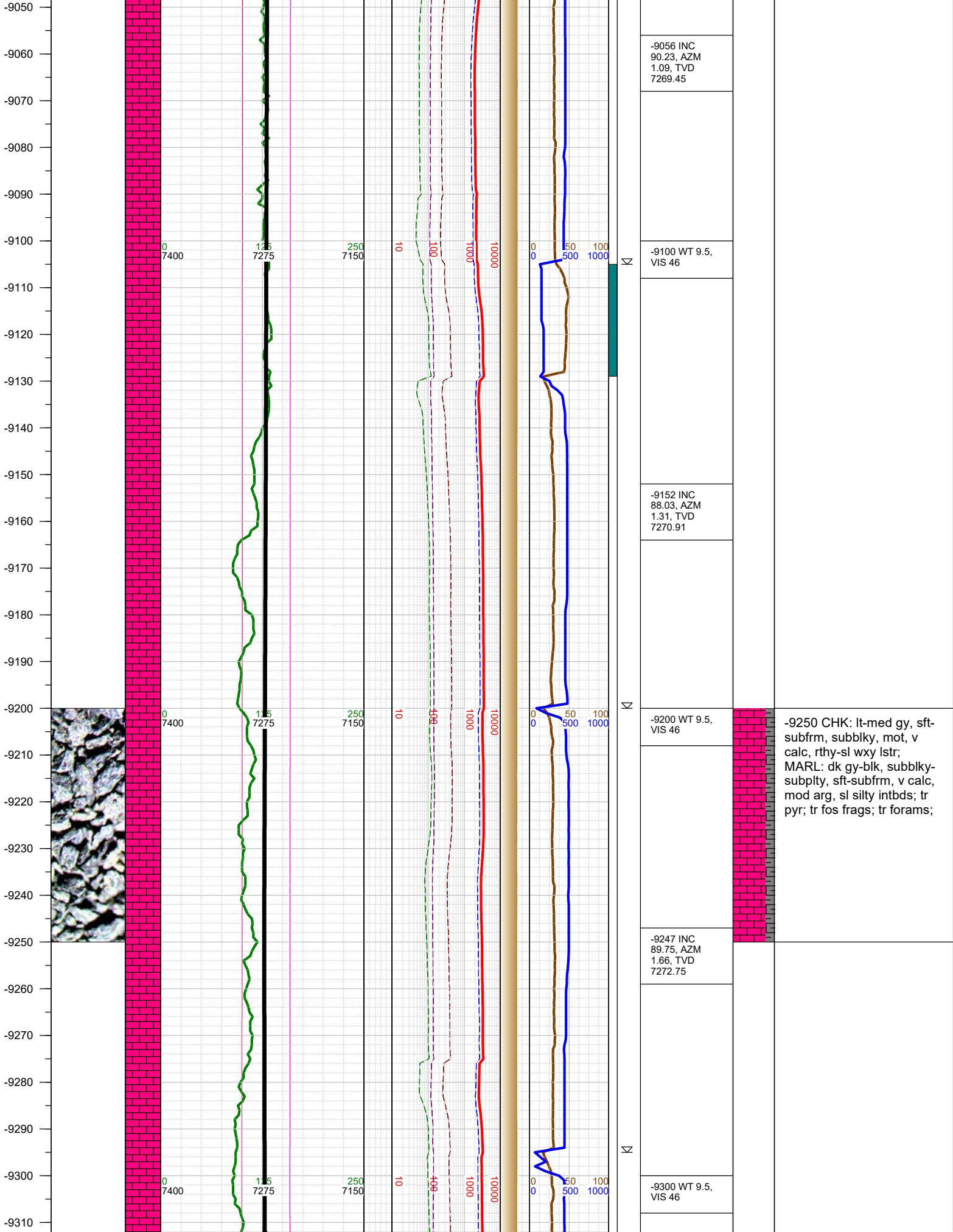


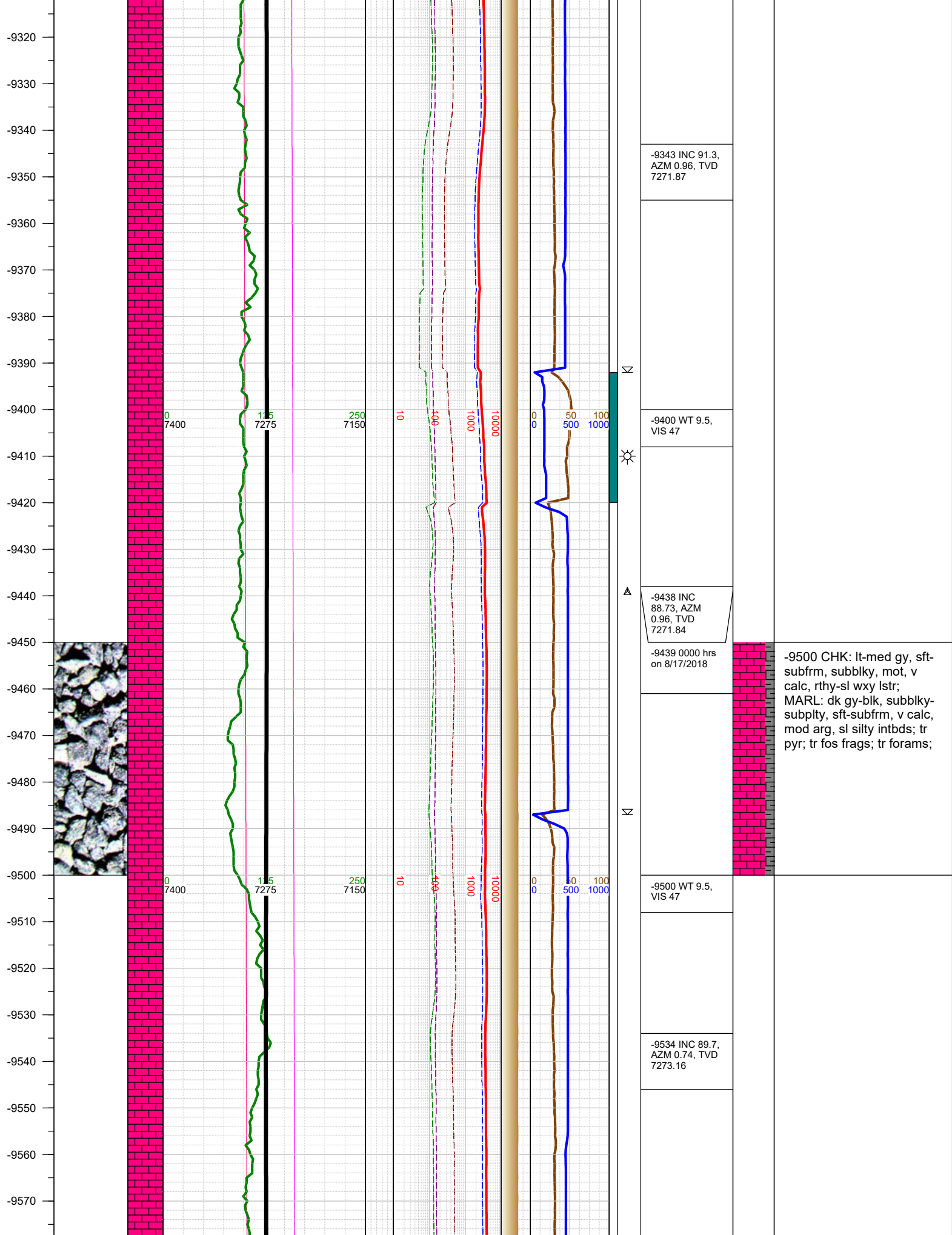


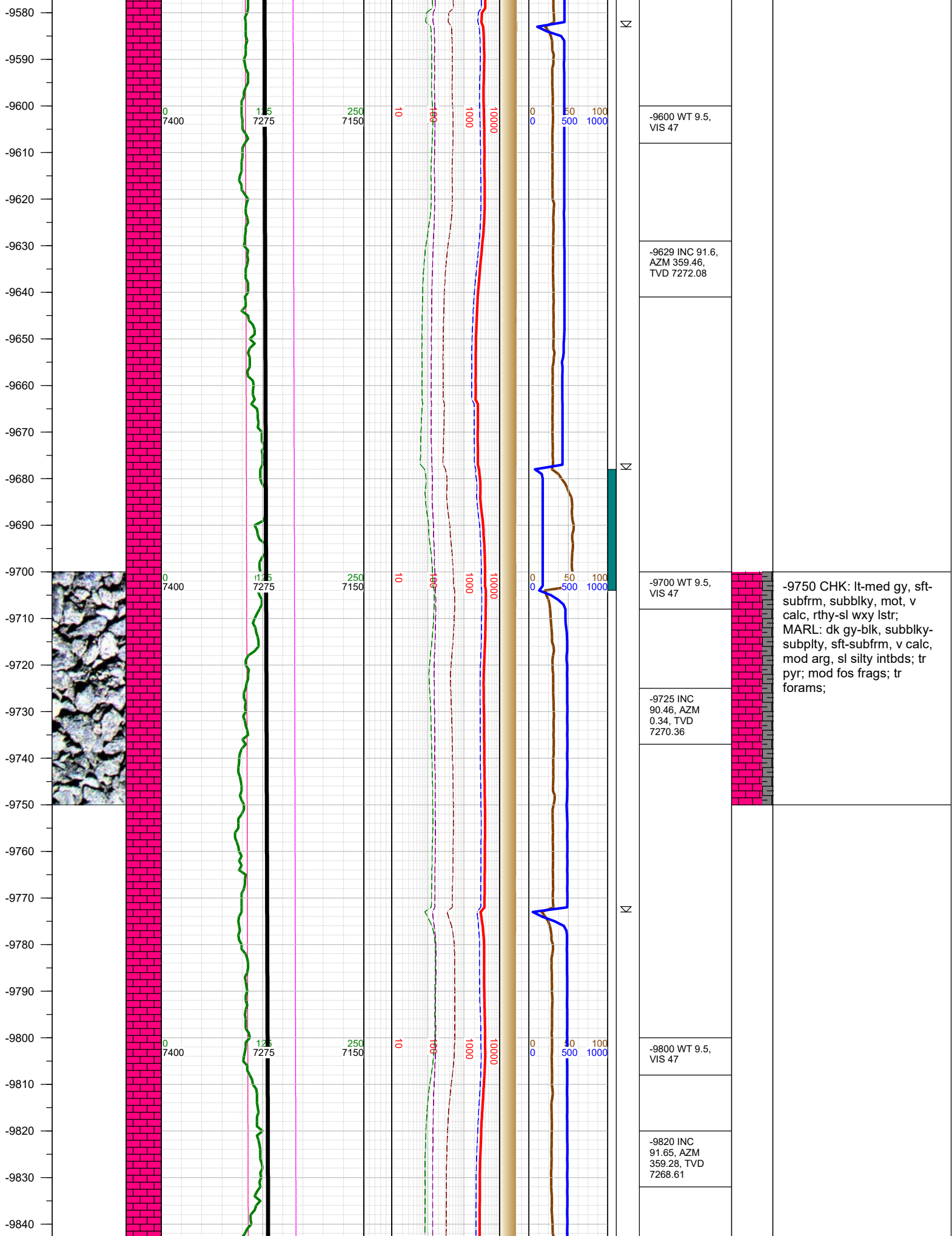


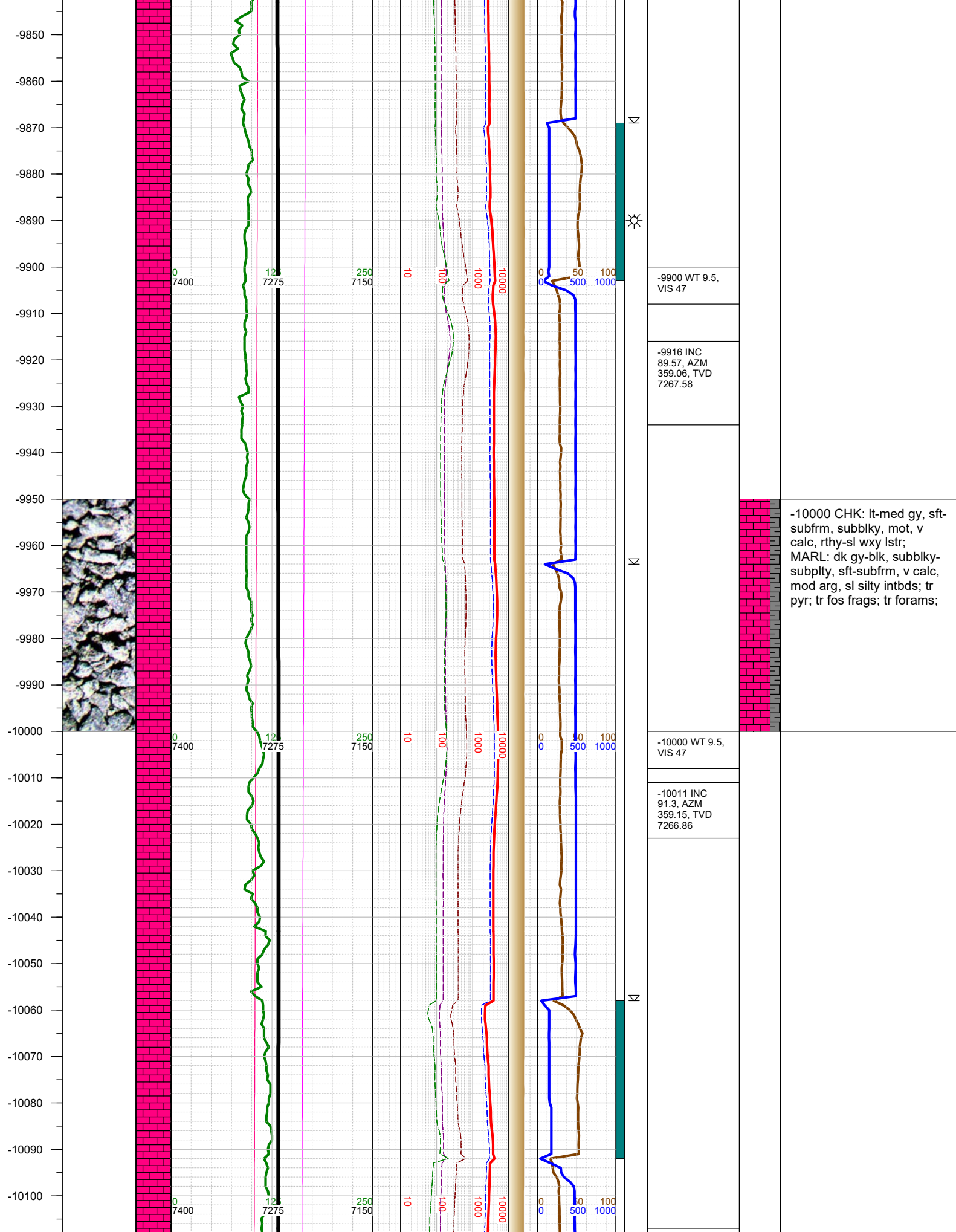


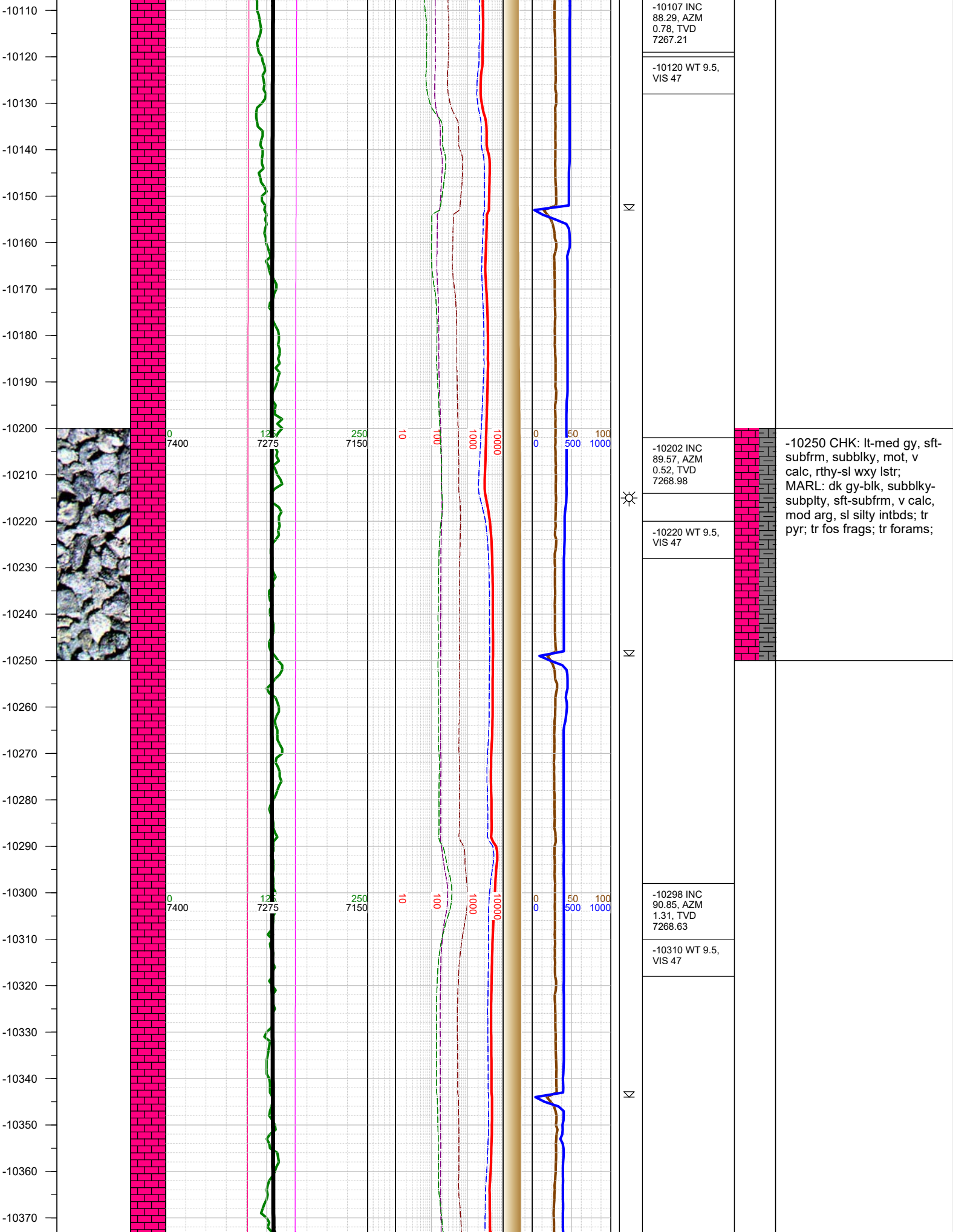


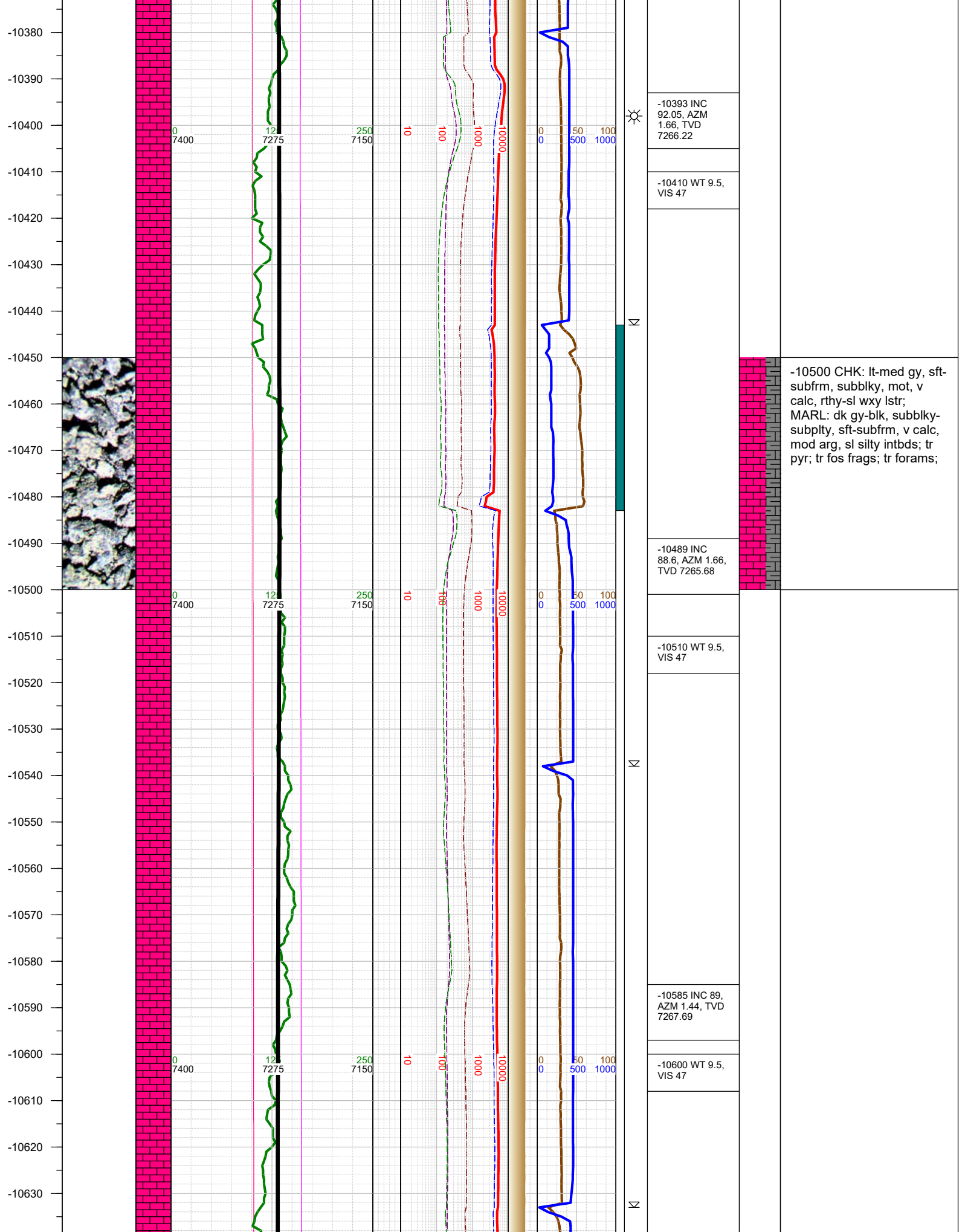


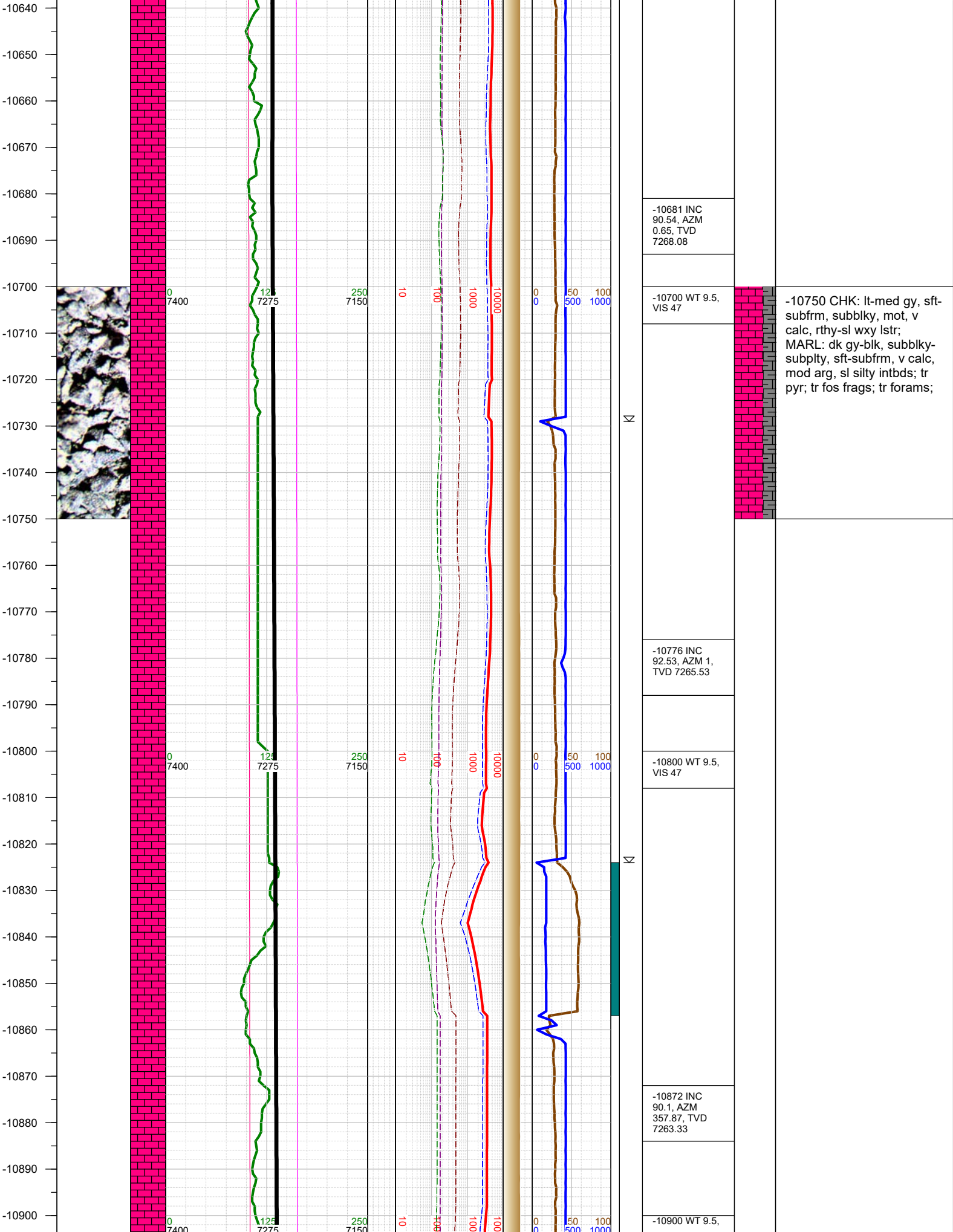


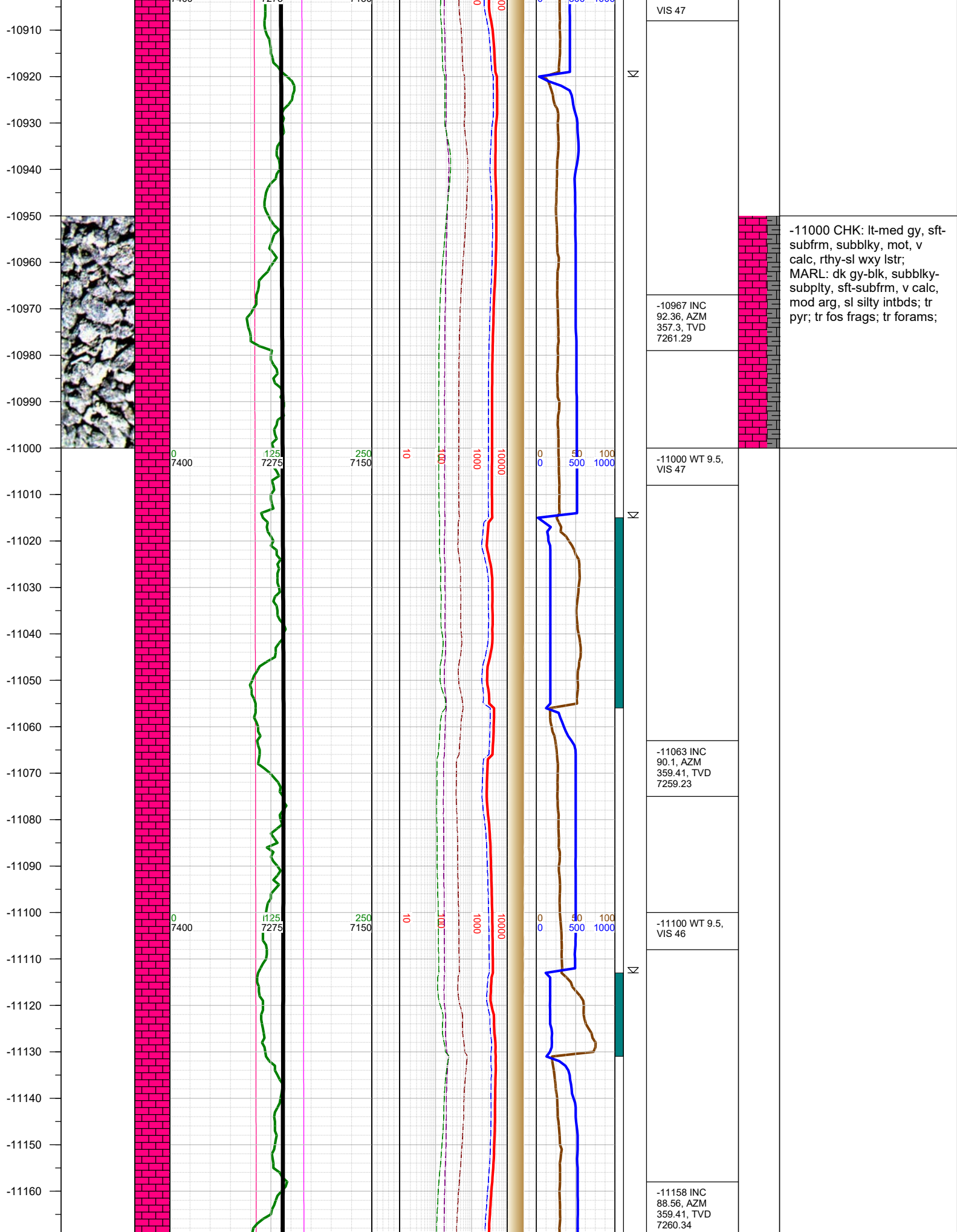


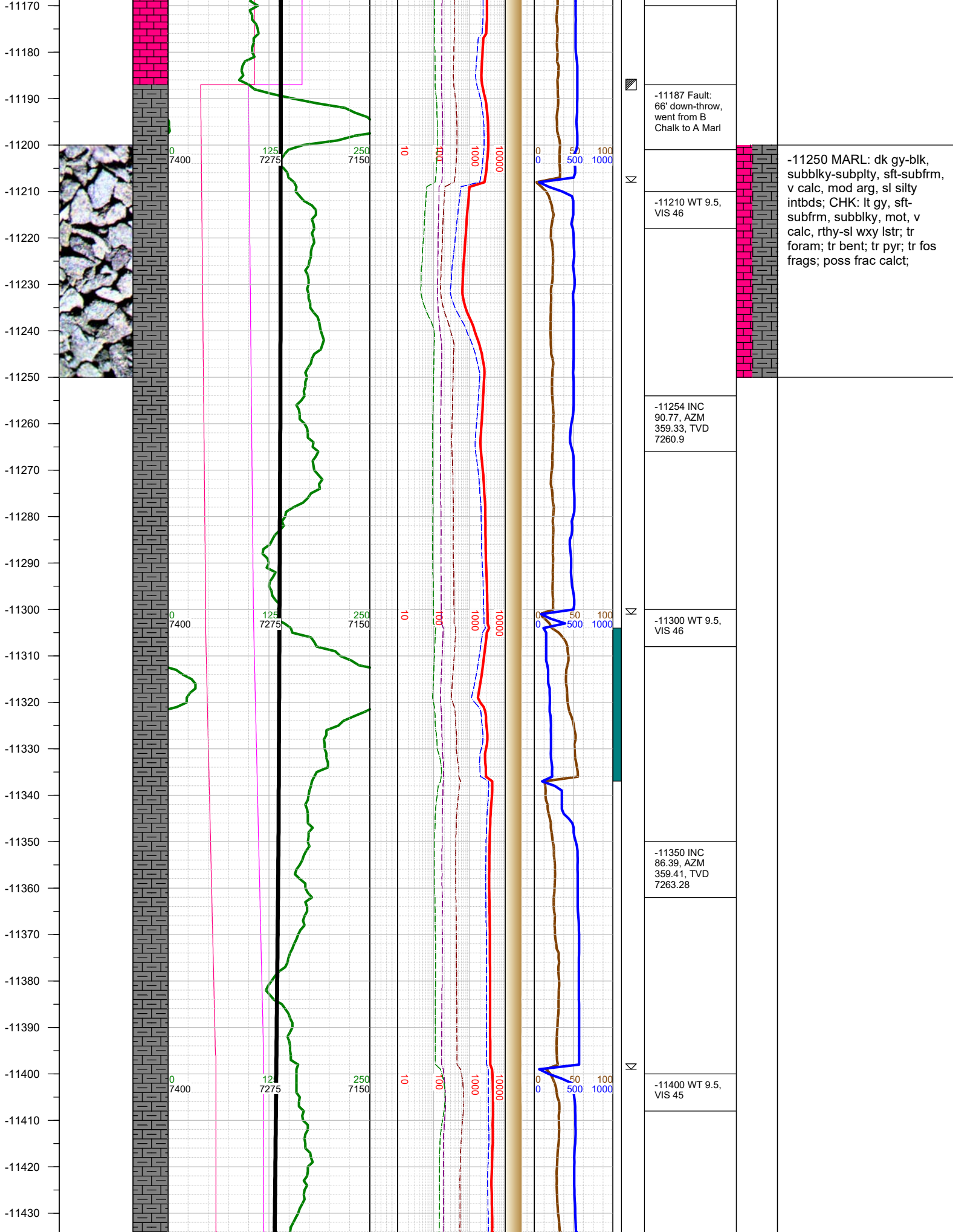




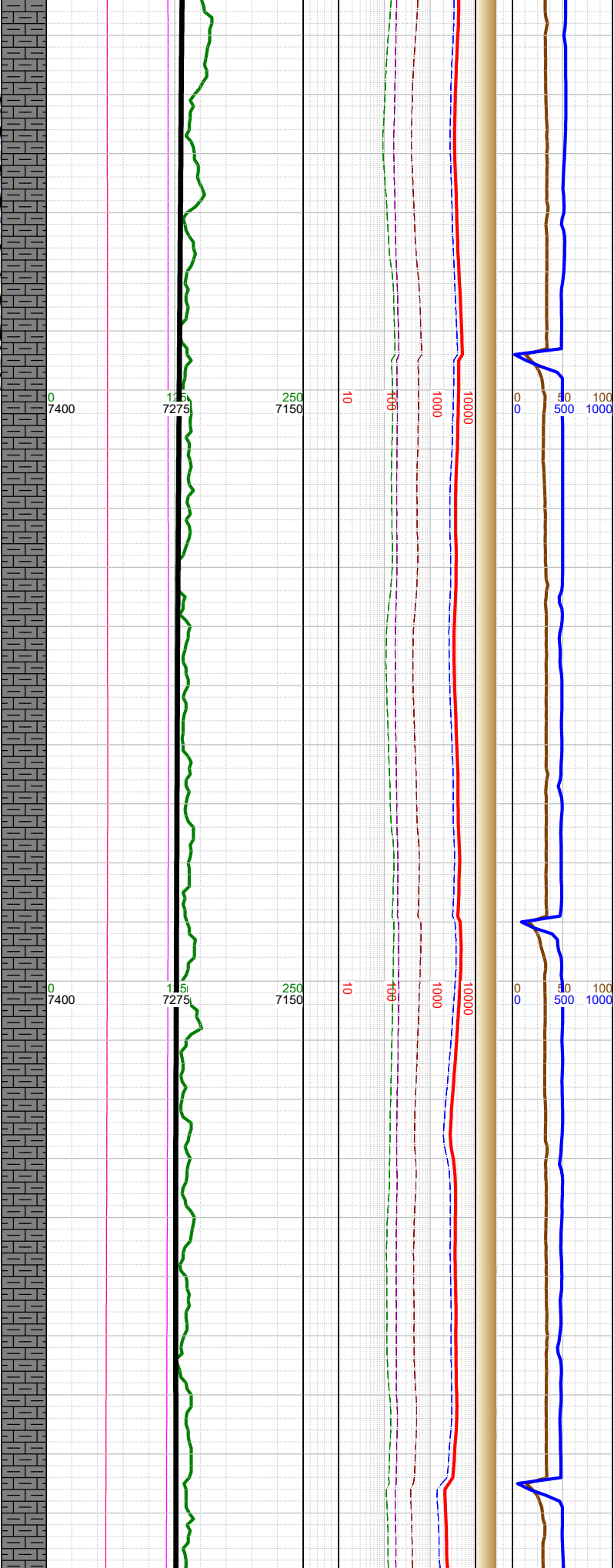
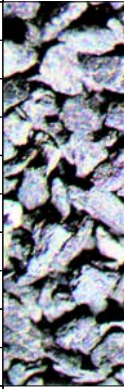








-11440
-11450
-11460
-11470
-11480
-11490
-11500
-11510
-11520
-11530
-11540
-11550
-11560
-11570
-11580
-11590
-11600
-11610
-11620
-11630
-11640
-11650
-11660
-11670
-11680
-11690

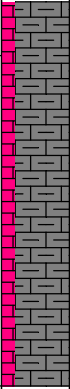


Σ

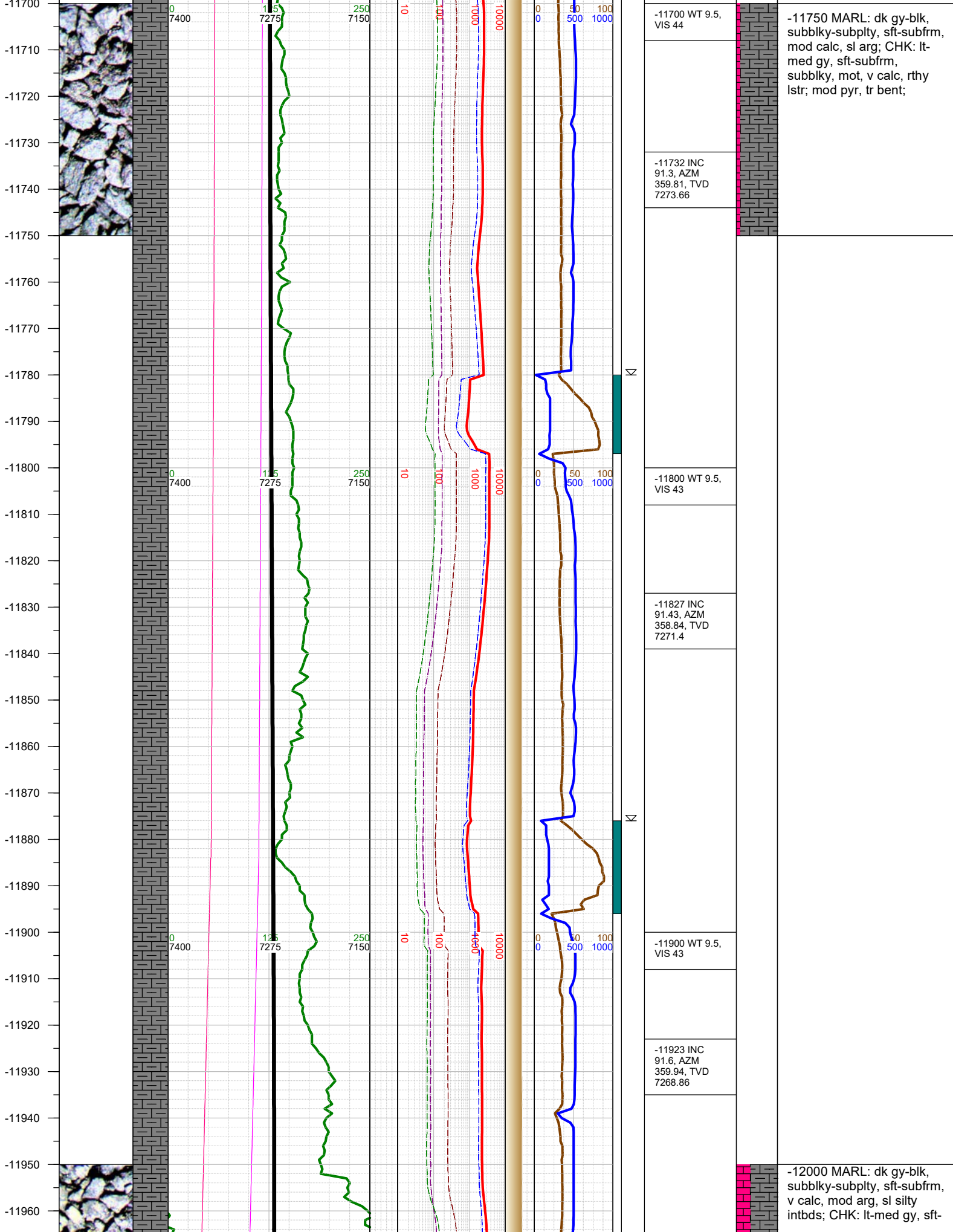
Σ

Σ

-11445 INC 87.23, AZM 0.25, TVD 7268.56
-11500 WT 9.5, VIS 45
-11541 INC 88.33, AZM 0.08, TVD 7272.28
-11600 WT 9.5, VIS 45
-11636 INC 89.35, AZM 359.72, TVD 7274.21

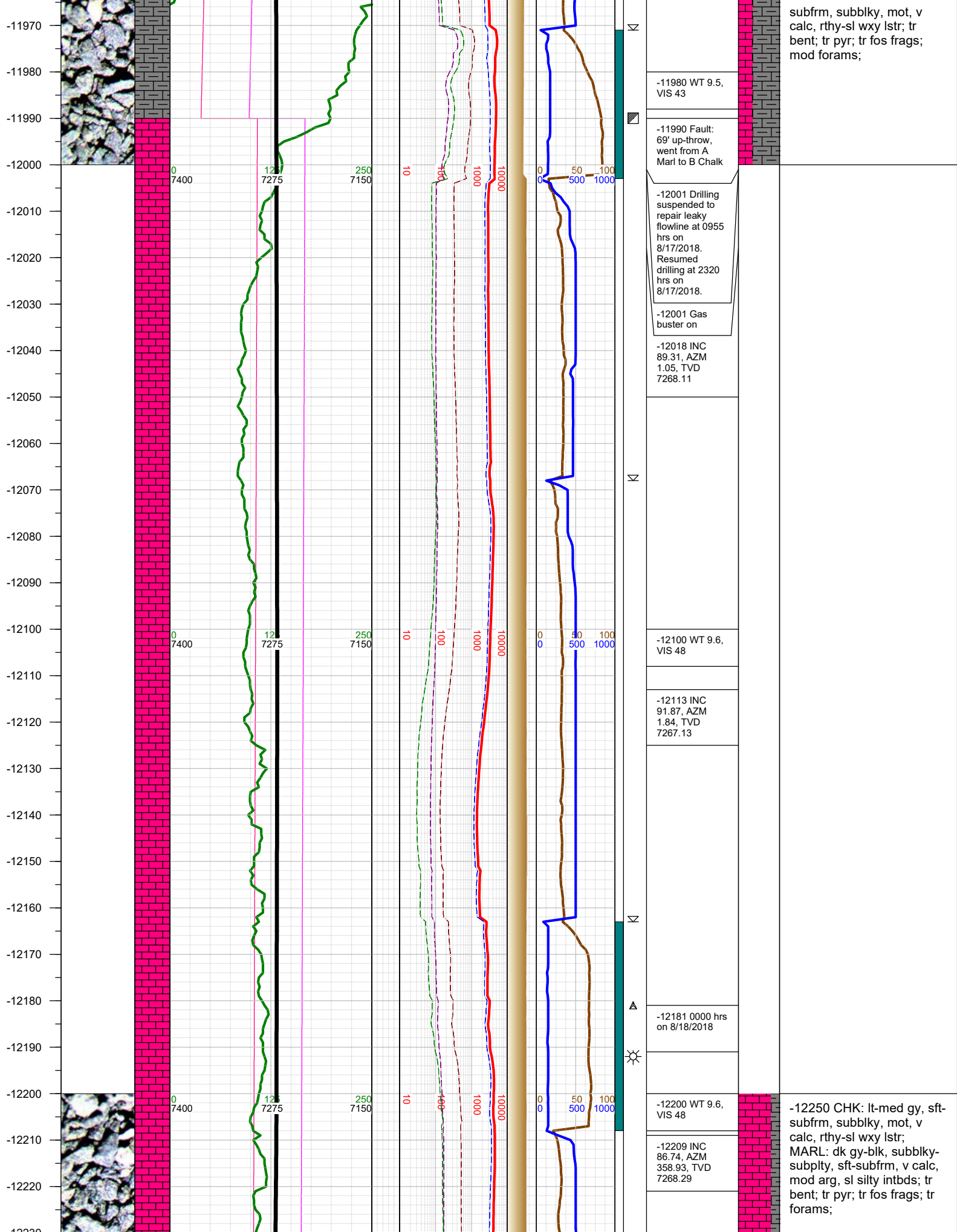


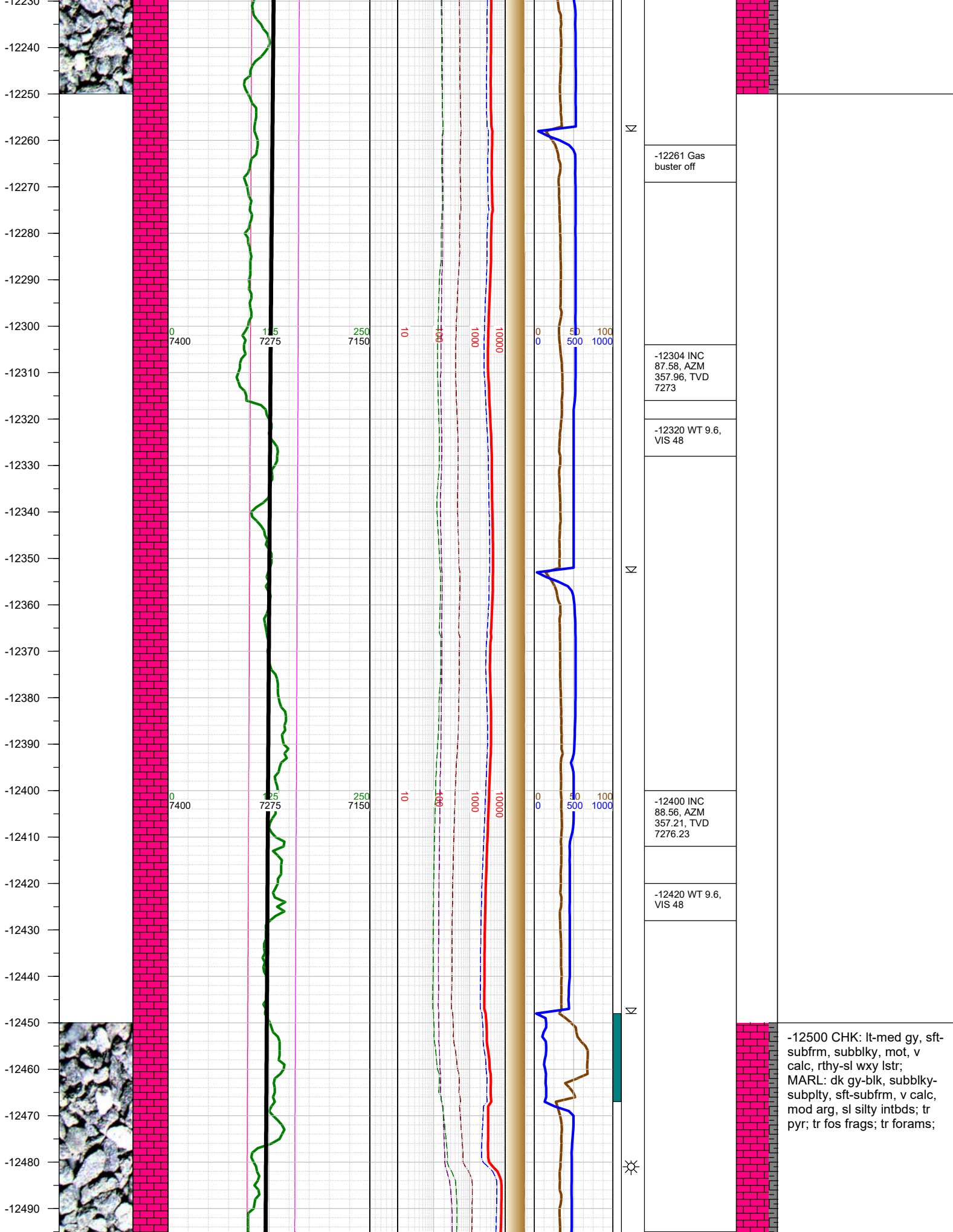
-11500 MARL: dk gy-blk,
subblky-subply, sft-subfrm,
mod calc, sl arg; CHK: lt-
med gy, sft-subfrm,
subblky, mot, v calc, rthy
lstr; mod pyr, tr bent;

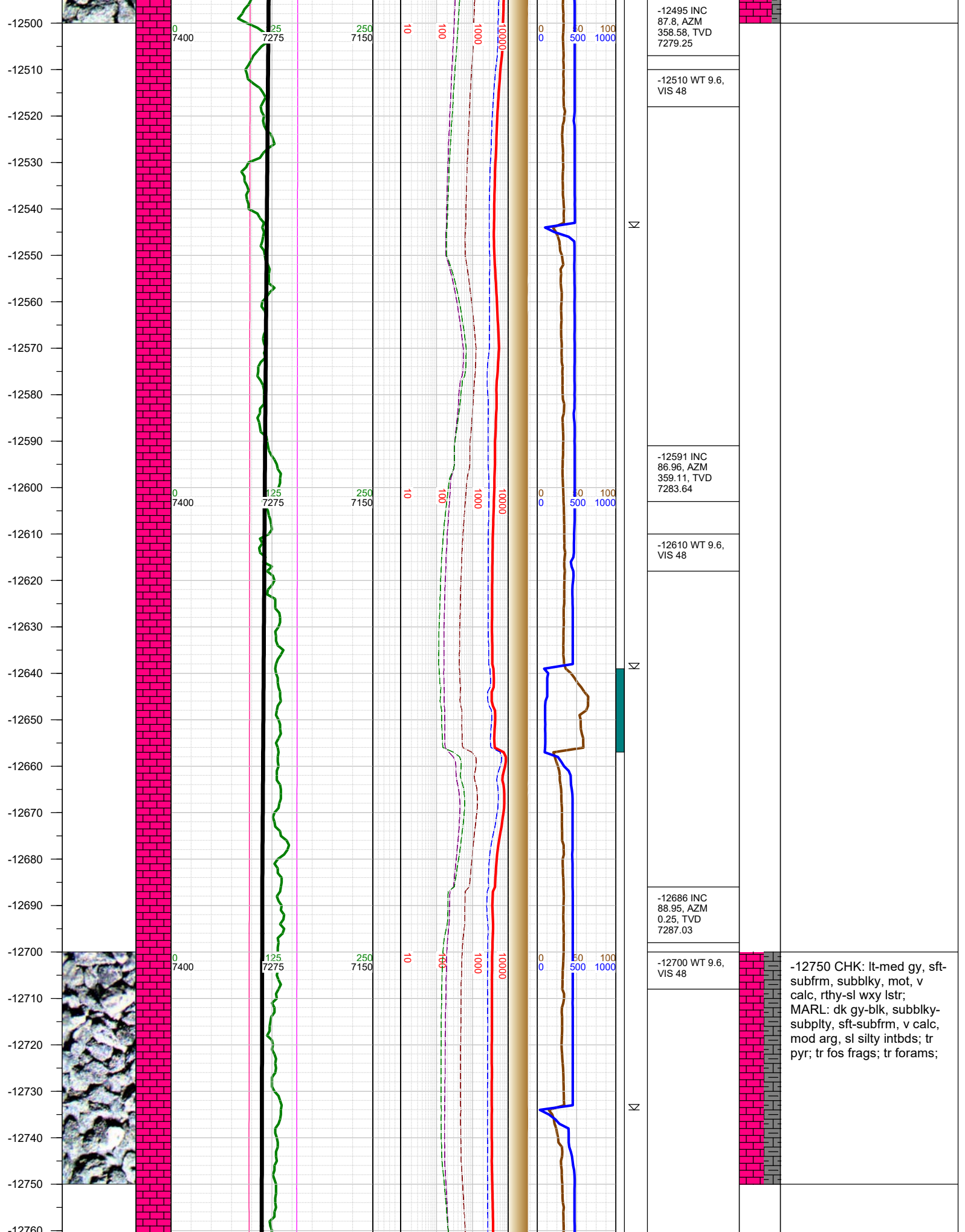


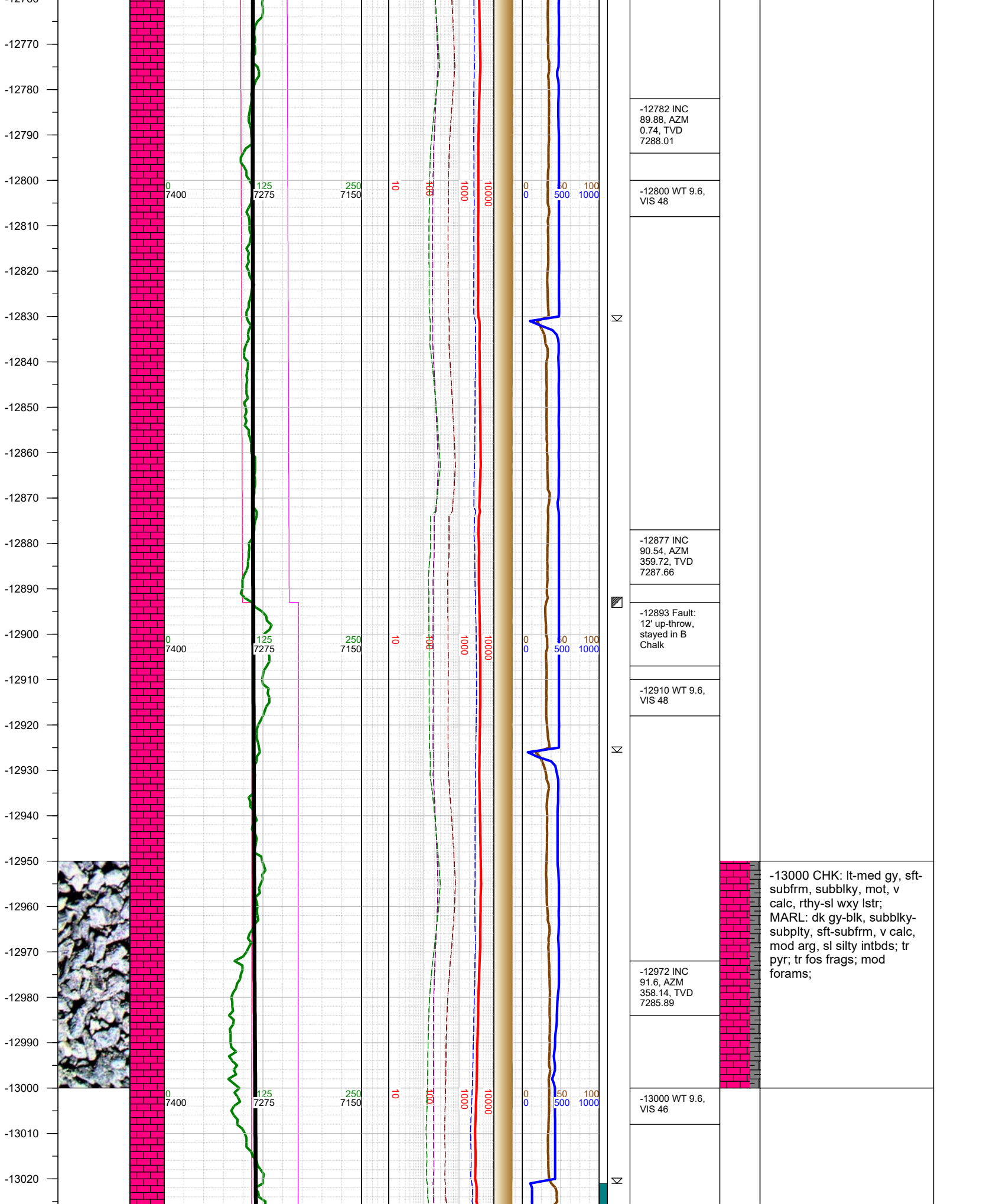
-11750 MARL: dk gy-blk, subblky-subplty, sft-subfrm, mod calc, sl arg; CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy lstr; mod pyr, tr bent;

-12000 MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg, sl silty intbds; CHK: lt-med gy, sft-

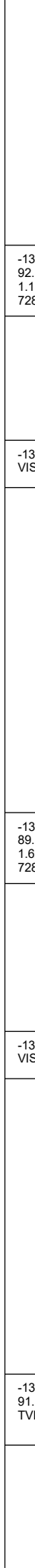
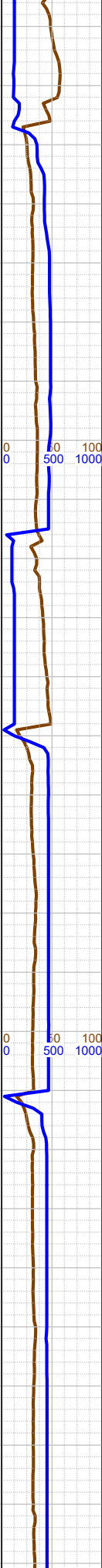
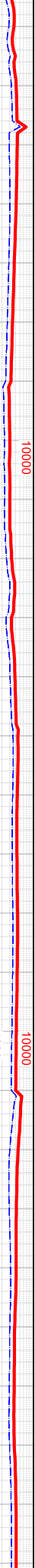
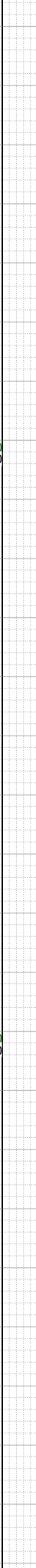
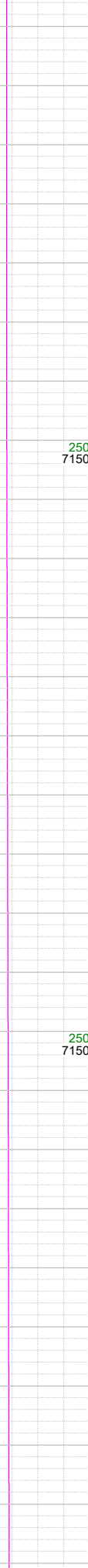
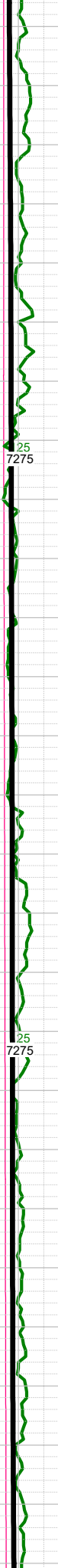
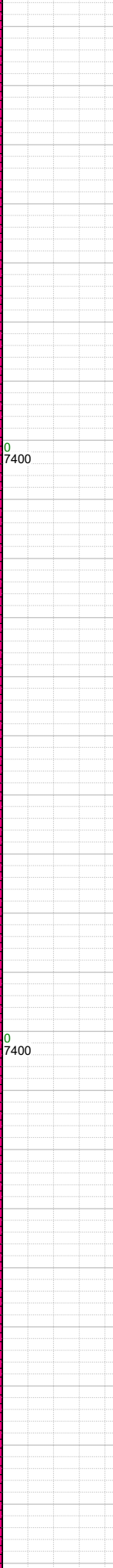
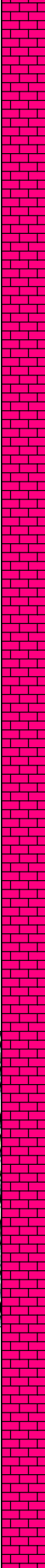
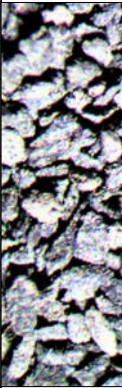




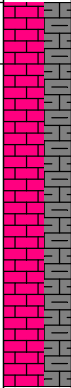




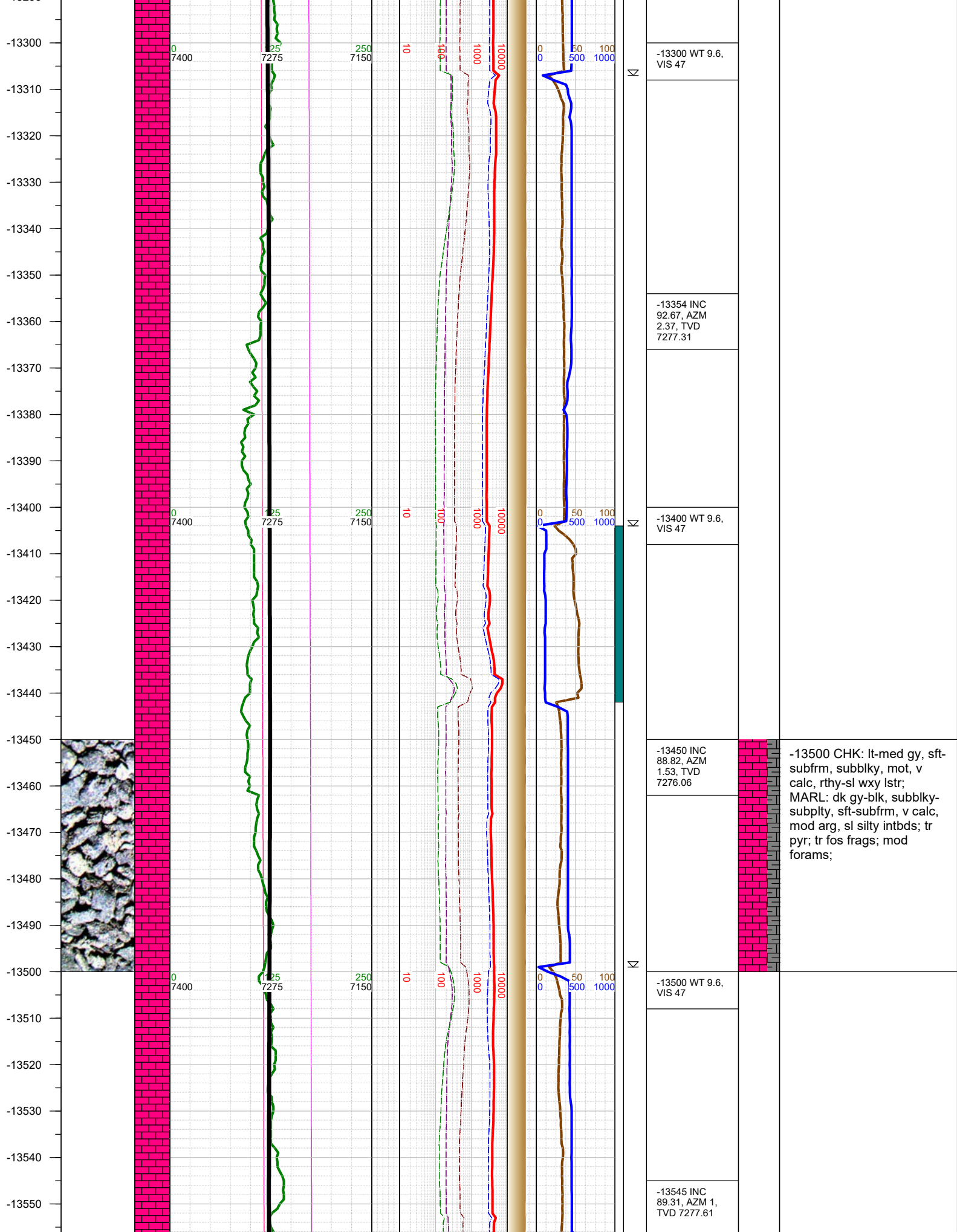
-13030
-13040
-13050
-13060
-13070
-13080
-13090
-13100
-13110
-13120
-13130
-13140
-13150
-13160
-13170
-13180
-13190
-13200
-13210
-13220
-13230
-13240
-13250
-13260
-13270
-13280
-13290

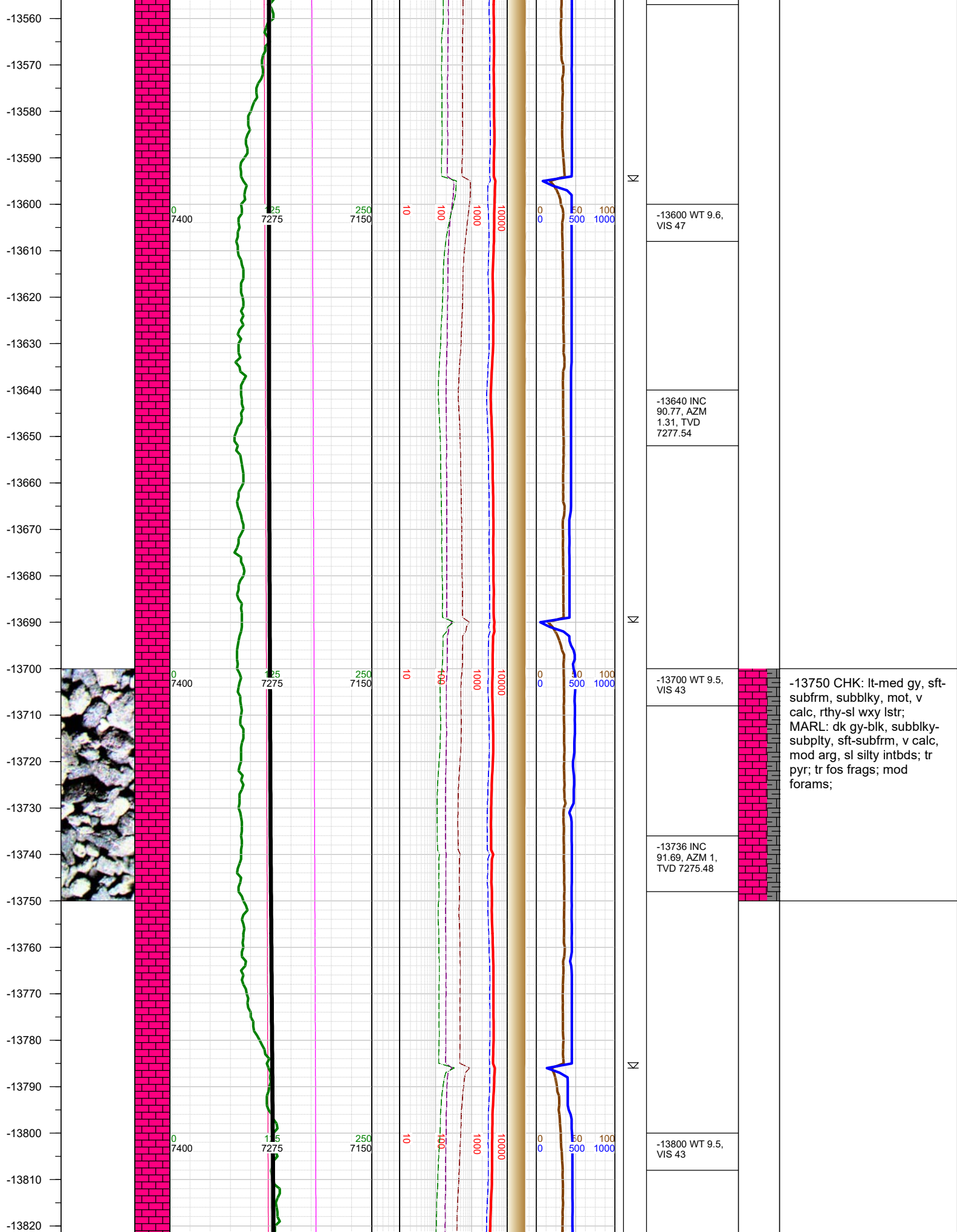


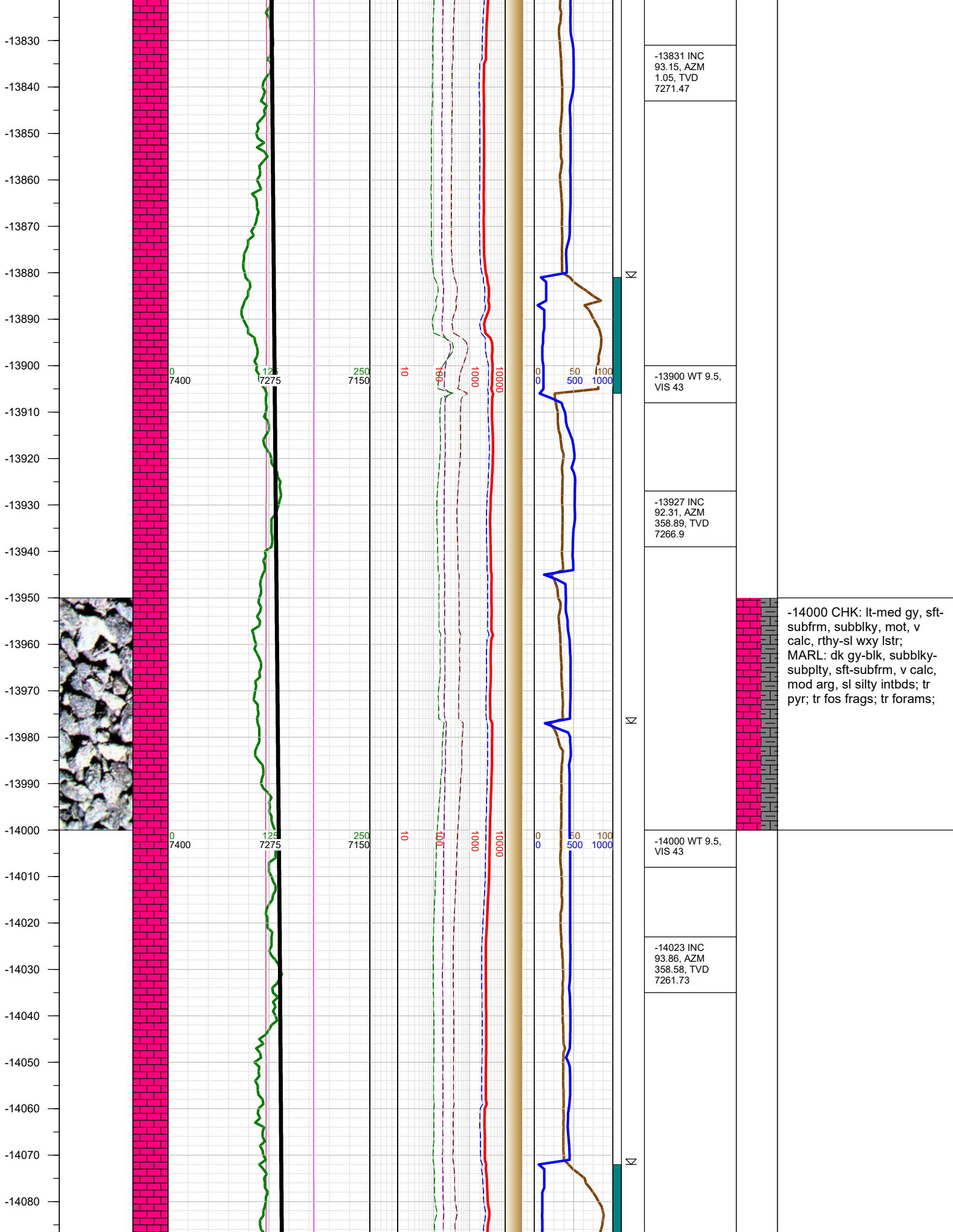
-13067 INC 92.36, AZM 1.13, TVD 7282.6
-13100 WT 9.6, VIS 46
-13163 INC 89.35, AZM 1.62, TVD 7281.17
-13200 WT 9.6, VIS 46
-13258 INC 91.3, AZM 2.63, TVD 7280.63

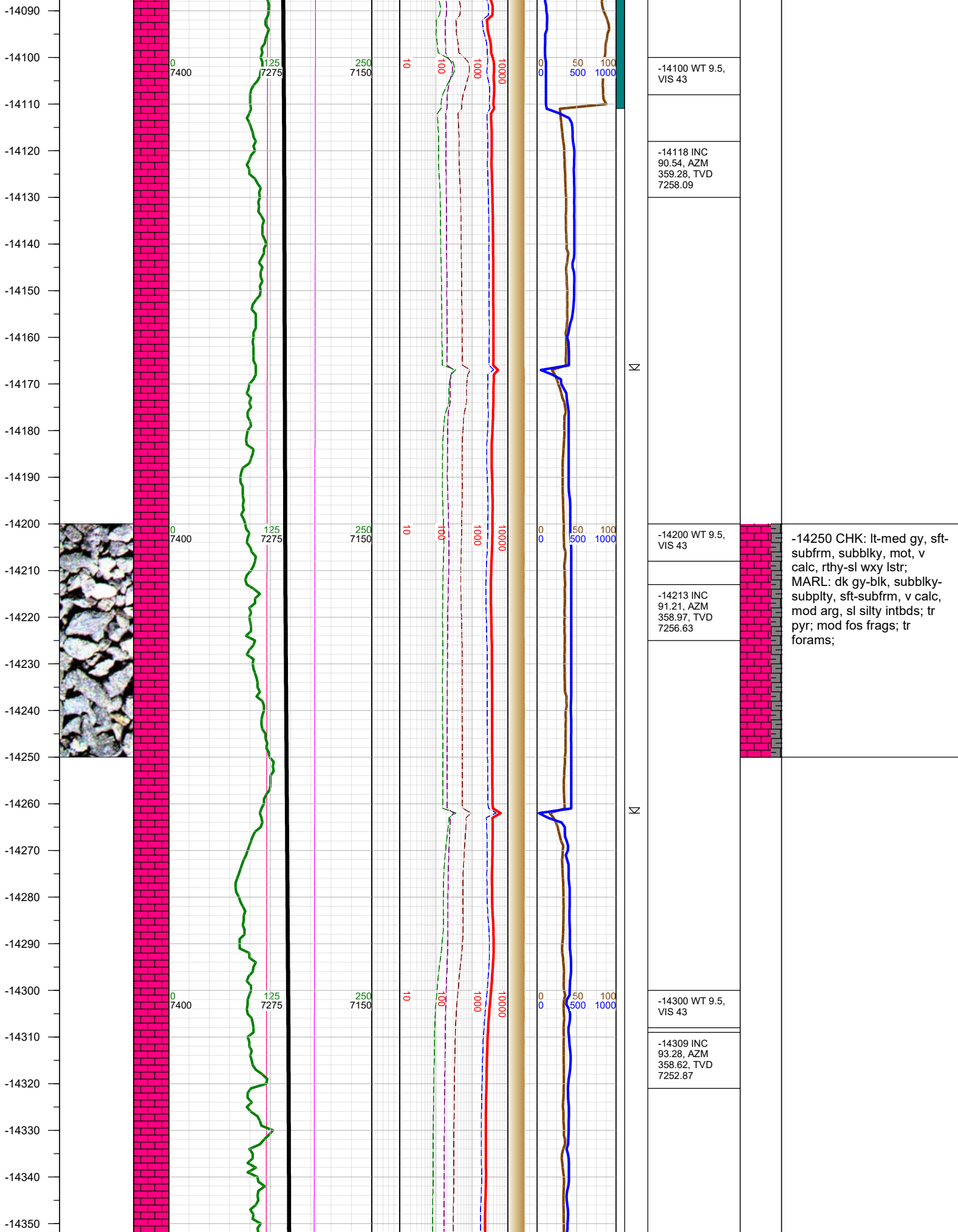


-13250 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subplty, sft-subfrm, v calc, mod arg, sl silty intbds; tr pyr; tr fos frags; mod forams;

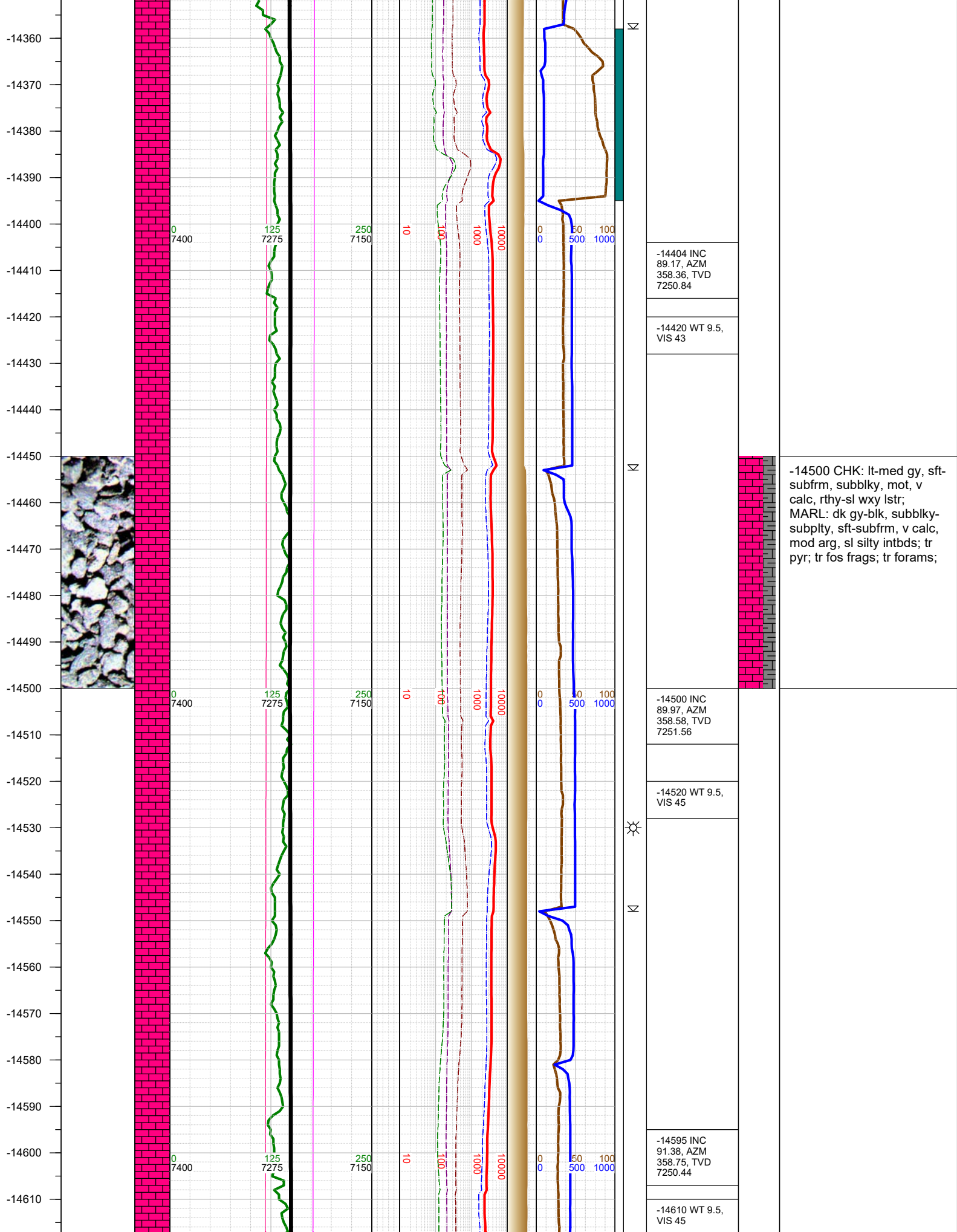


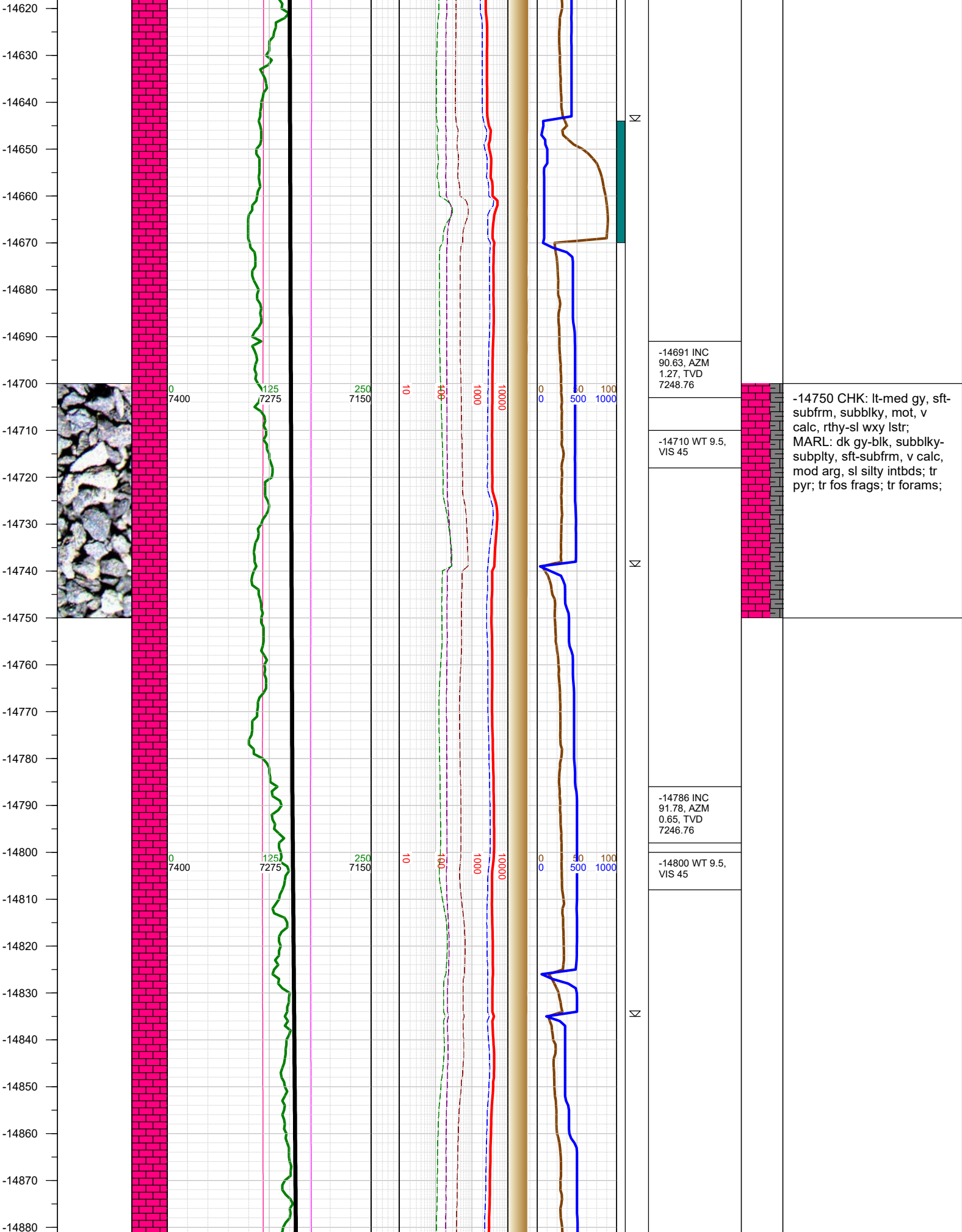


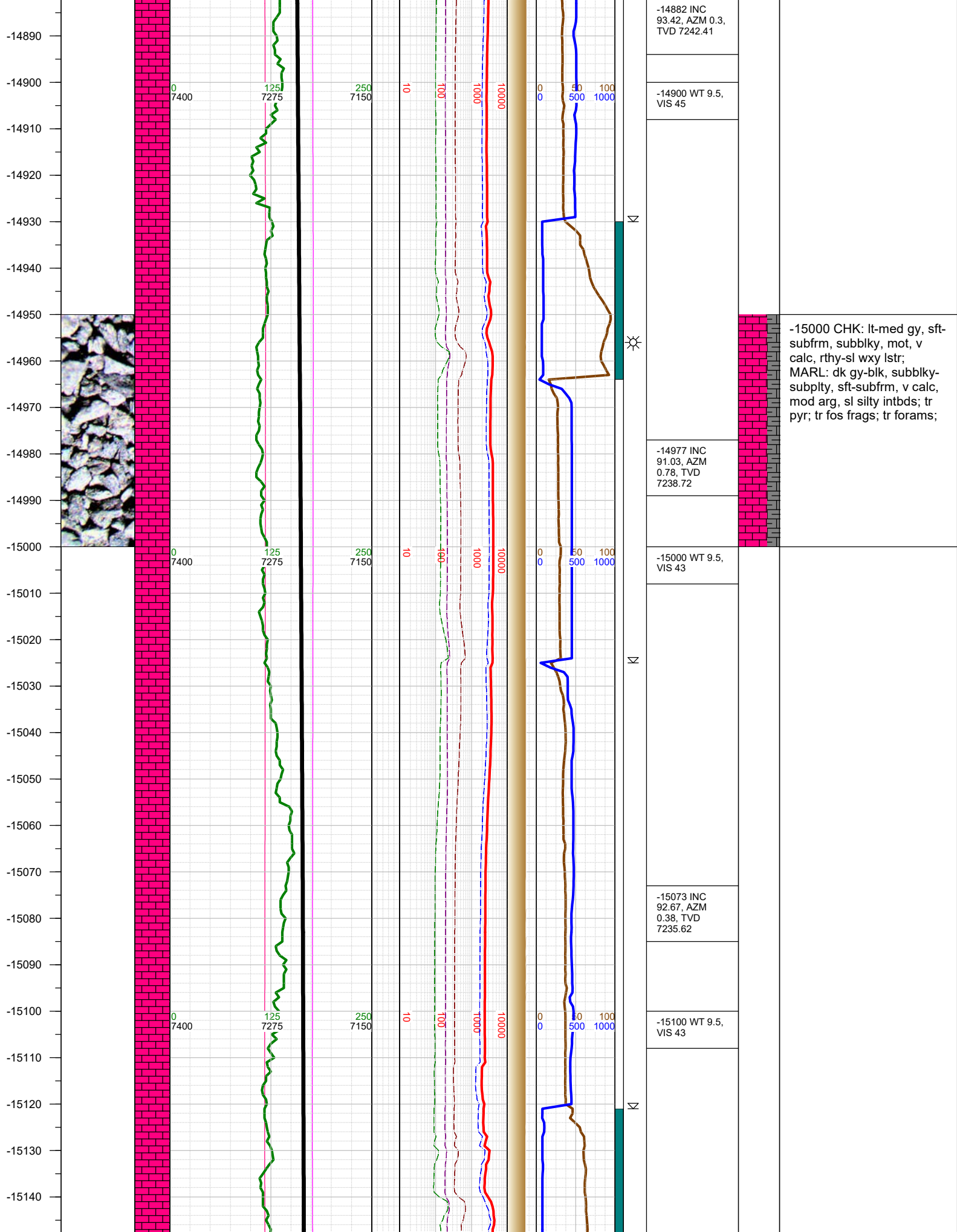




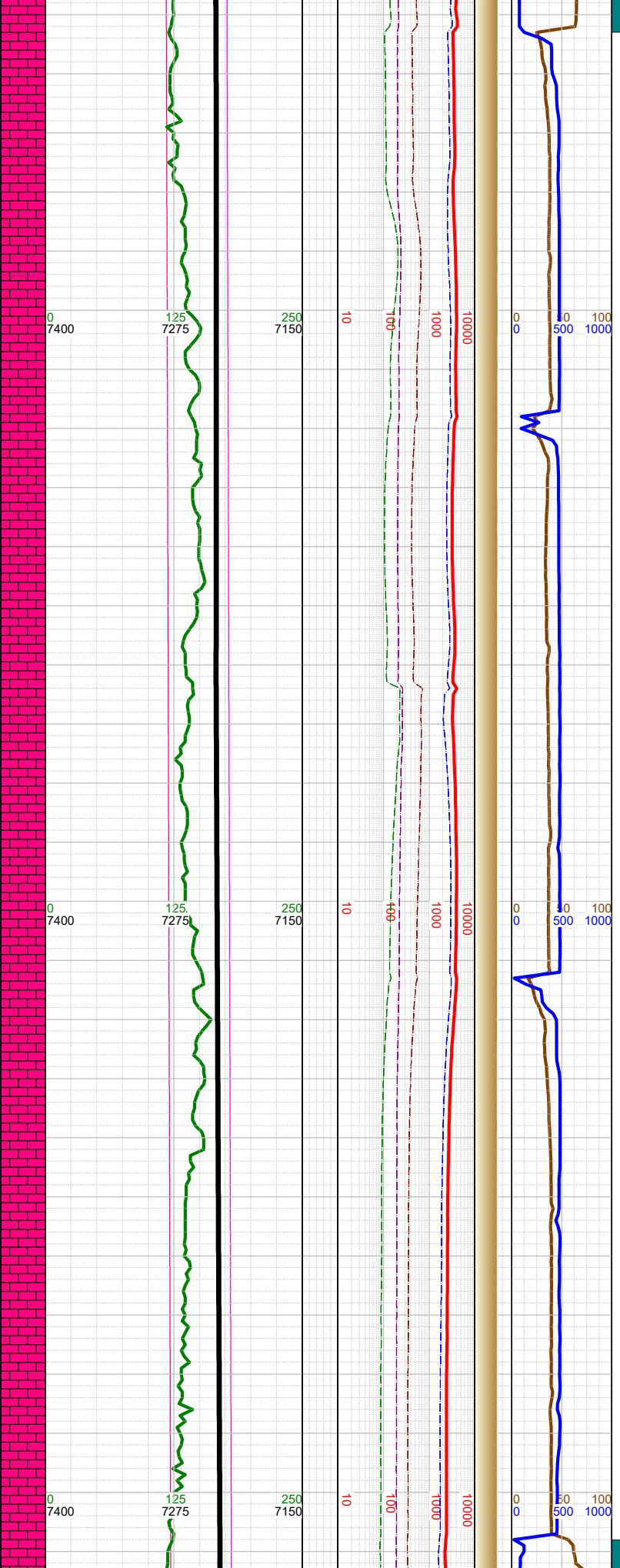
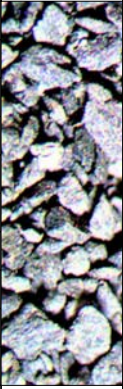
-14250 CHK: lt-med gy, sft-subfrm, subblky, mot, v calc, rthy-sl wxy lstr; MARL: dk gy-blk, subblky-subply, sft-subfrm, v calc, mod arg, sl silty intbds; tr pyr; mod fos frags; tr forams;







-15150
-15160
-15170
-15180
-15190
-15200
-15210
-15220
-15230
-15240
-15250
-15260
-15270
-15280
-15290
-15300
-15310
-15320
-15330
-15340
-15350
-15360
-15370
-15380
-15390
-15400
-15410



-15168 INC
89.4, AZM
359.68, TVD
7233.91

-15200 WT 9.5,
VIS 44

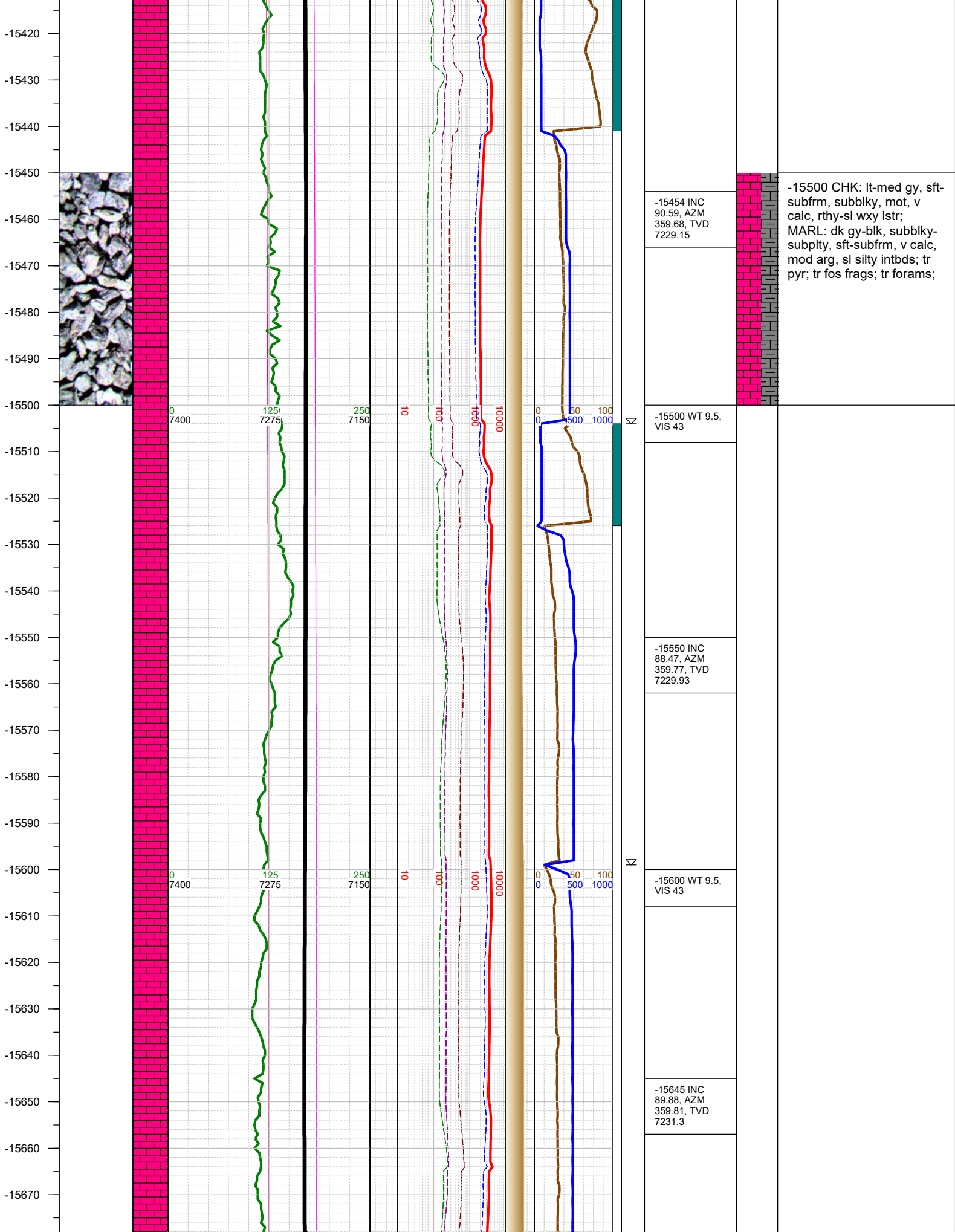
-15263 INC
90.46, AZM
359.68, TVD
7234.02

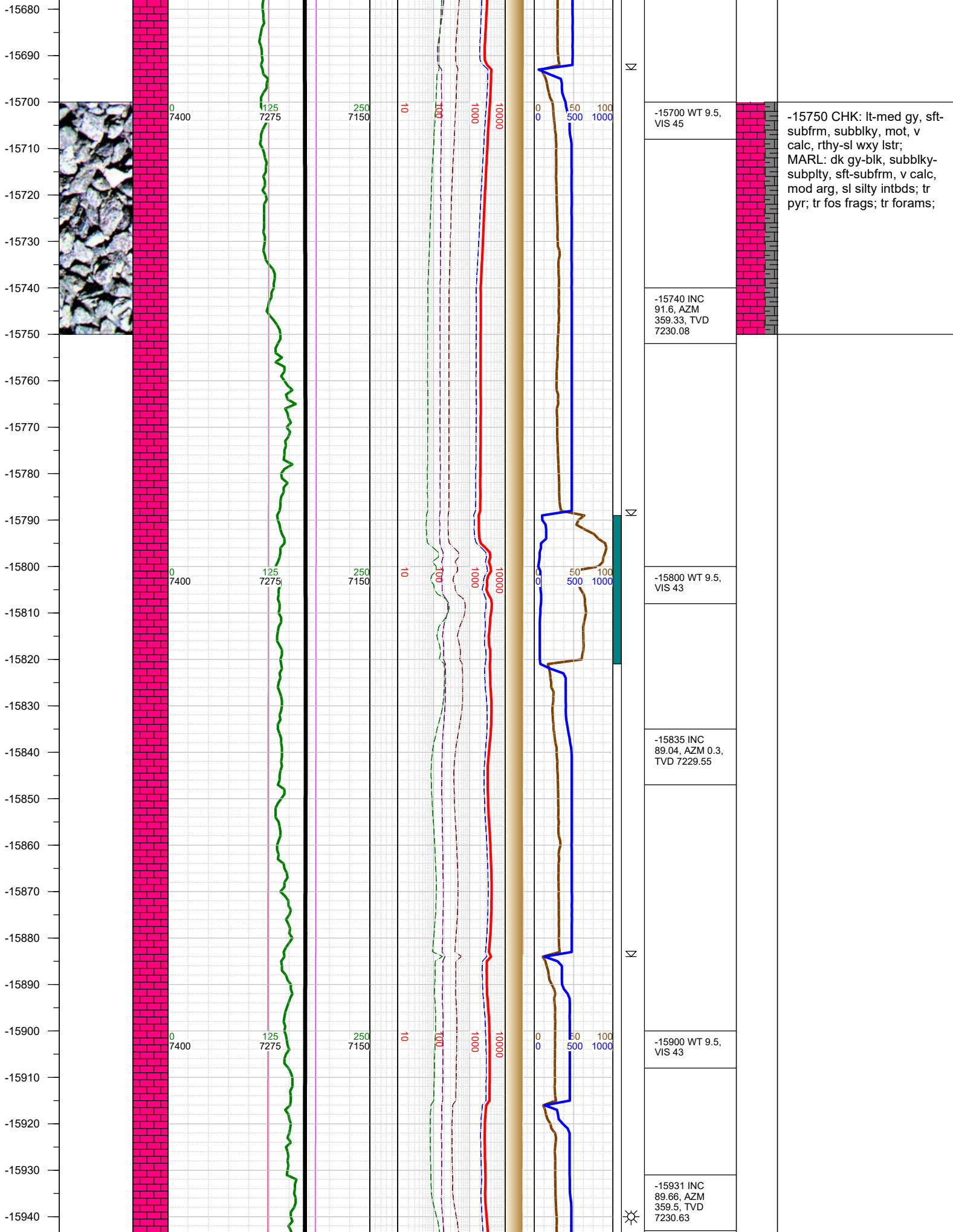
-15300 WT 9.5,
VIS 44

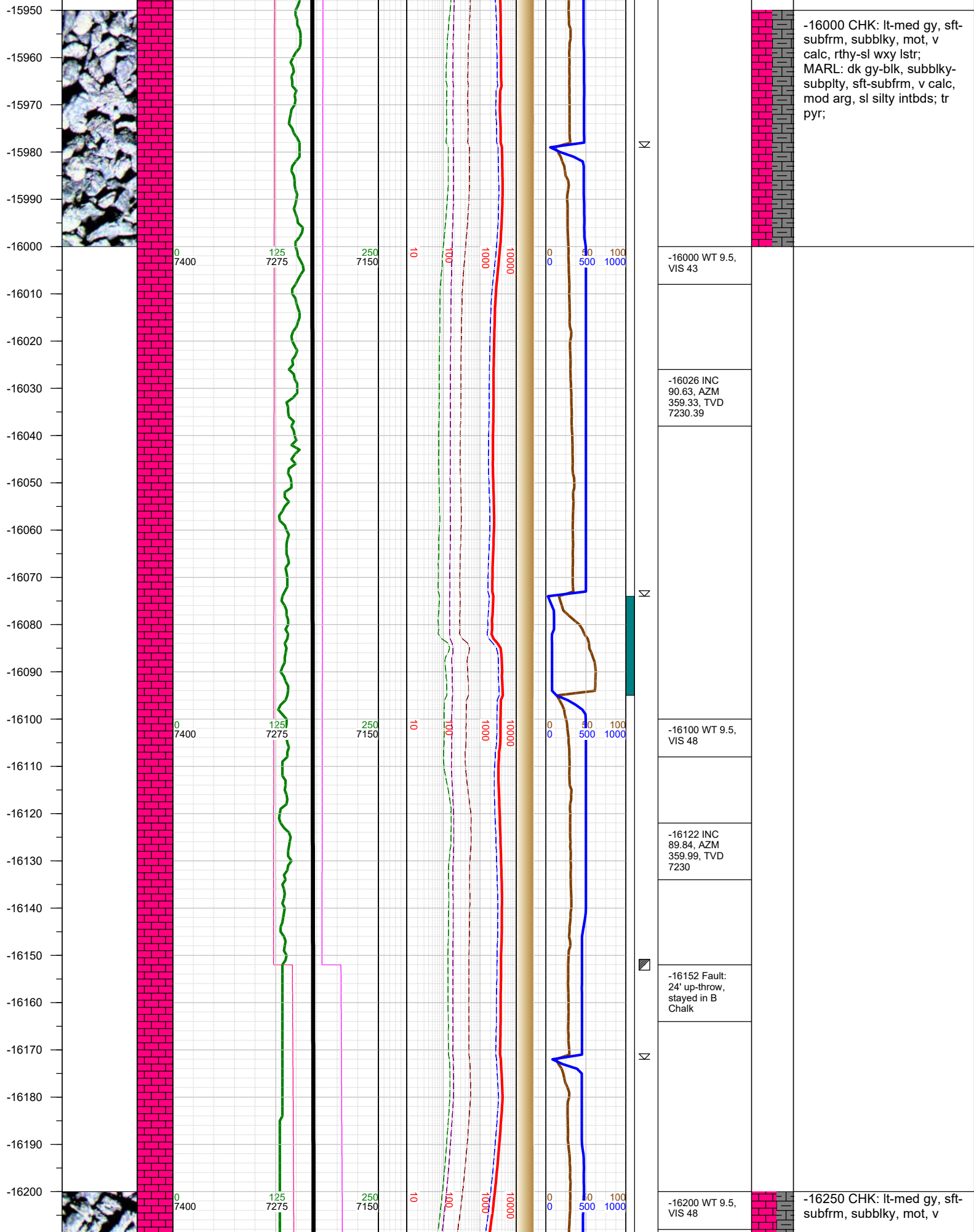
-15359 INC
92.4, AZM
359.24, TVD
7231.63

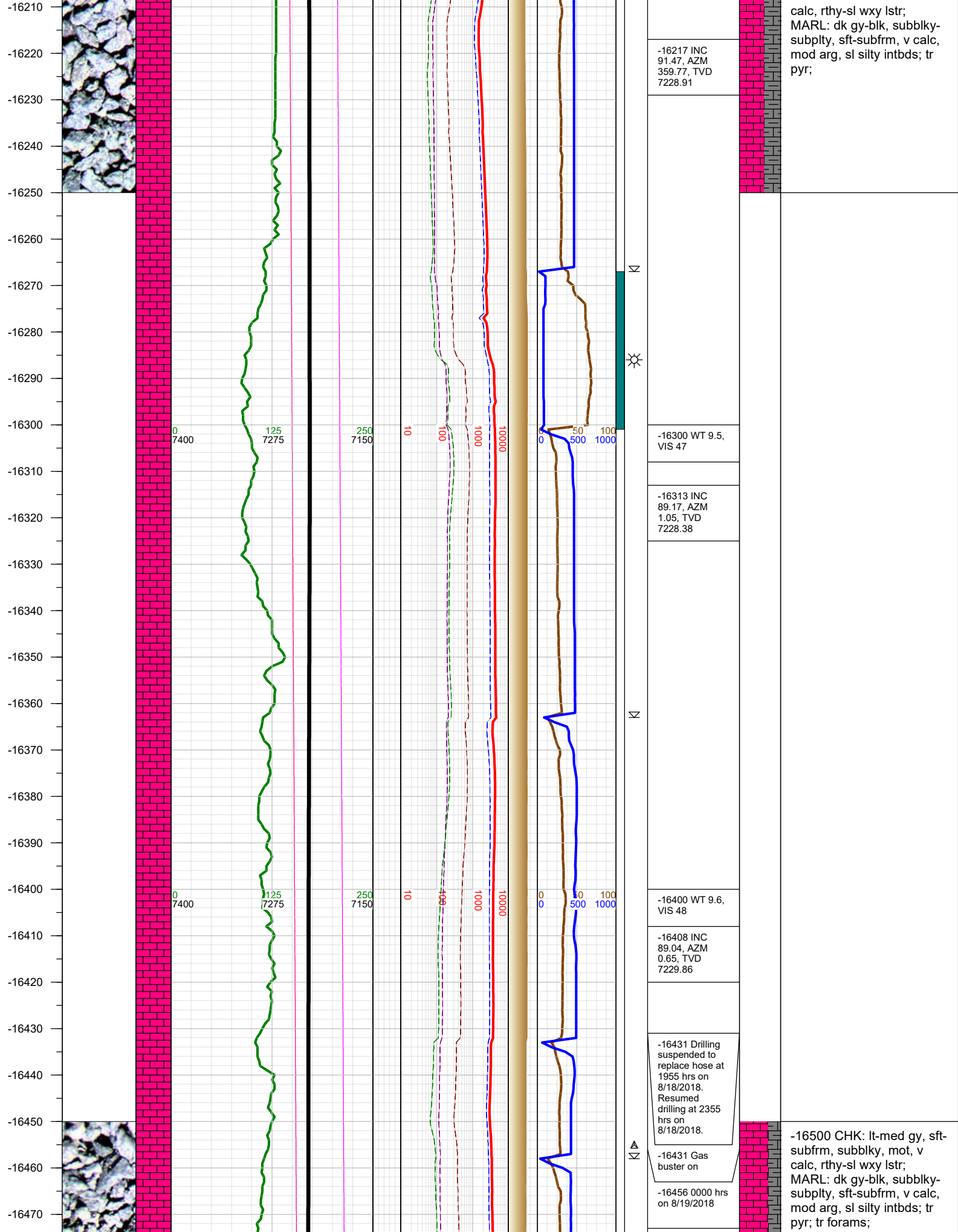
-15400 WT 9.5,
VIS 44

-15250 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 fos frags; tr forams;

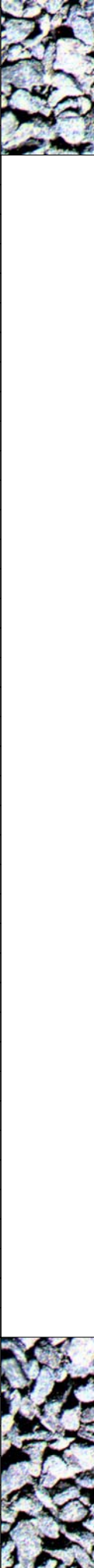








-16480
-16490
-16500
-16510
-16520
-16530
-16540
-16550
-16560
-16570
-16580
-16590
-16600
-16610
-16620
-16630
-16640
-16650
-16660
-16670
-16680
-16690
-16700
-16710
-16720
-16730



0
7400

125
7275

250
7150

10

100

1000

10000

0
0

50
500

100
1000

Σ

-16504 INC
90.37, AZM
0.43, TVD
7230.36

-16520 WT 9.6,
VIS 48

-16600 INC
91.47, AZM
0.47, TVD
7228.81

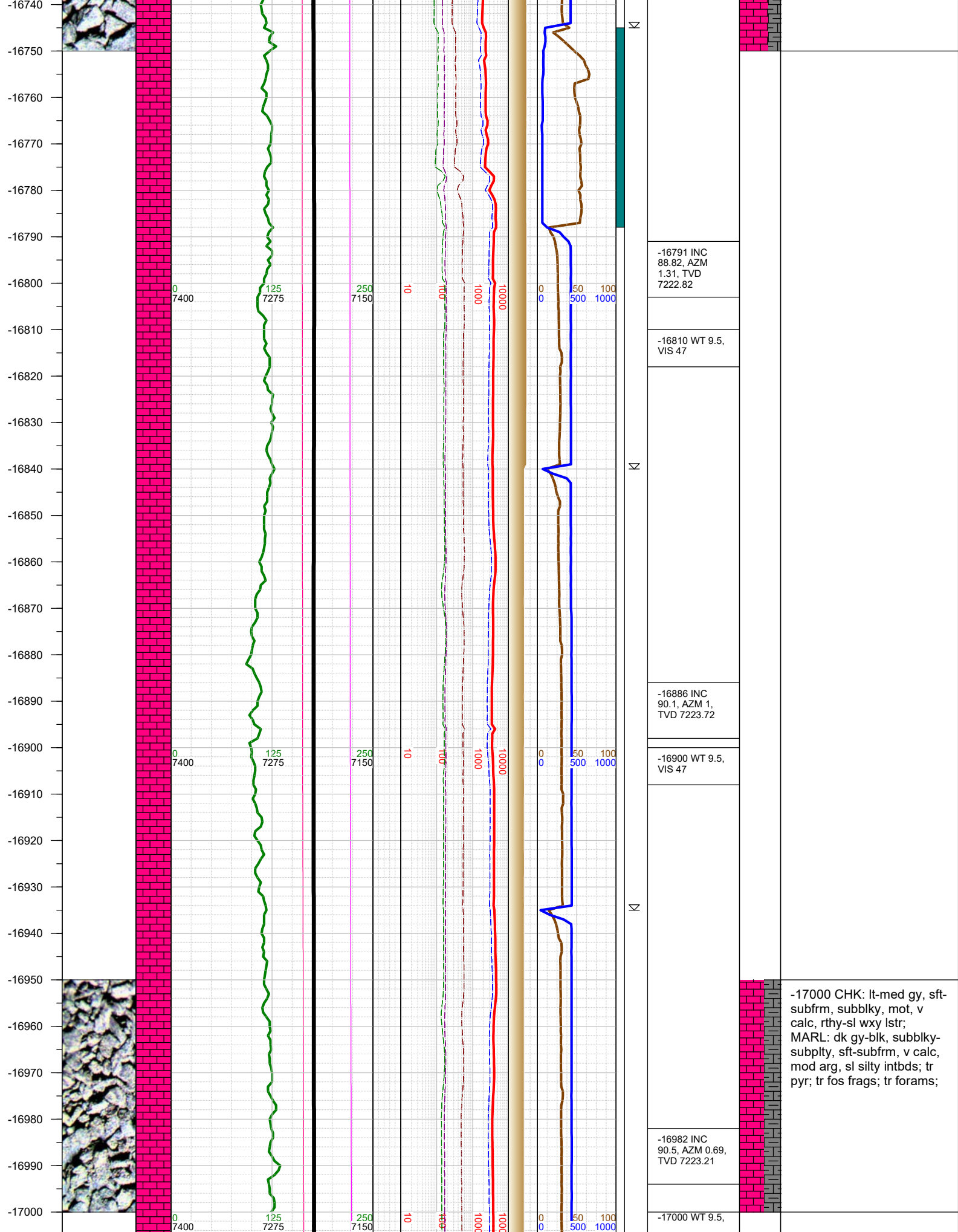
-16620 WT 9.6,
VIS 48

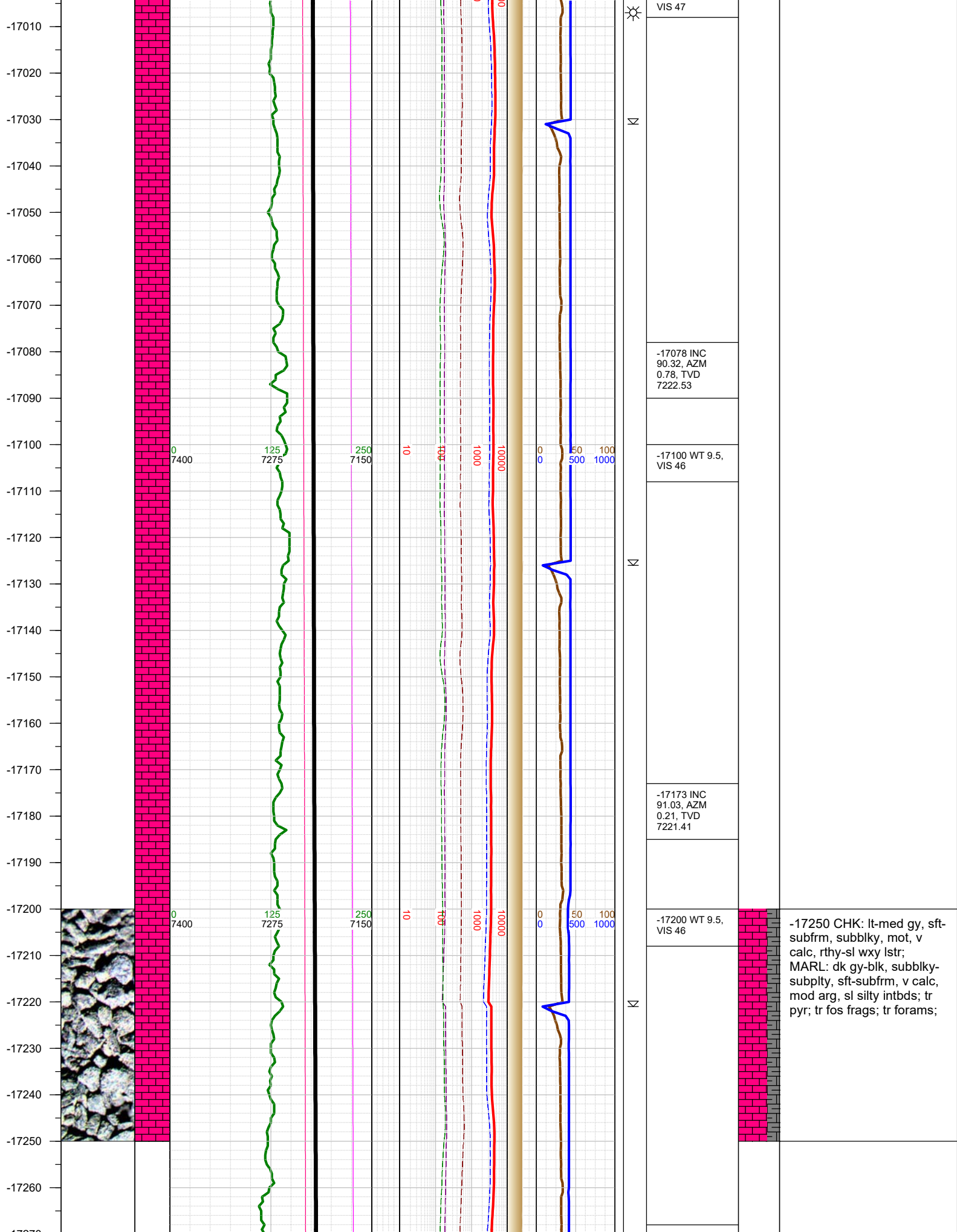
Σ

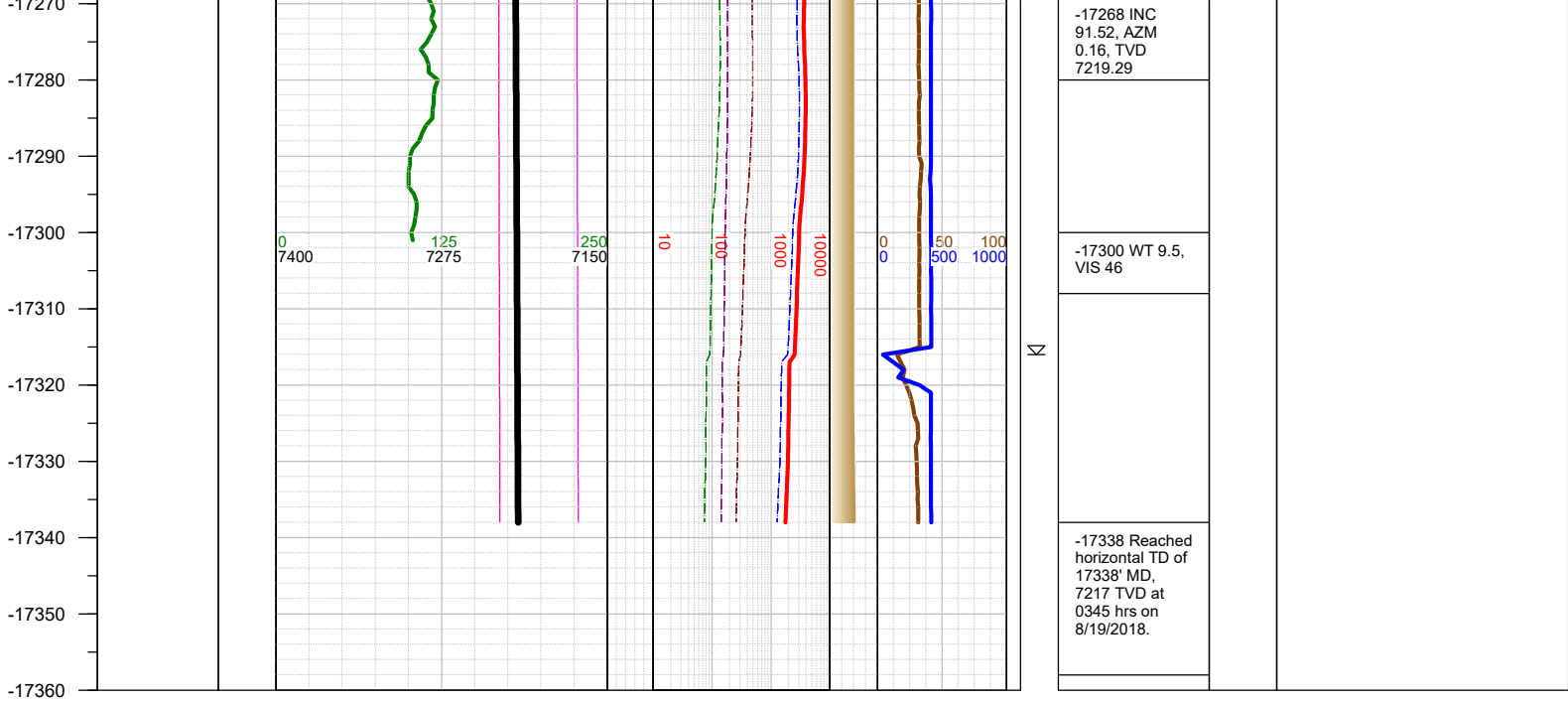
-16695 INC
93.46, AZM
0.25, TVD
7224.73

-16710 WT 9.5,
VIS 47

-16750 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
pyr; tr forams;







TOTAL DEPTH = 17338'

Thank you for using Earth Science Agency