

OPERATOR: **Extraction Oil & Gas**

WELL NAME: **CS Scott C2-1-13**

FIELD NAME: DJ Basin - Wattenberg

DRILLING RIG: Patterson 341

API #: 05-123-42908

LAT/LONG: 40.43837, -104.7232

SURFACE HOLE: SWSE S36-T6N-R66W, 341' FSL, 2040' FEL

BOTTOM HOLE: S13-T5N-R66W, 2193' FNL, 768' FWL



Earth Science Agency, LLC

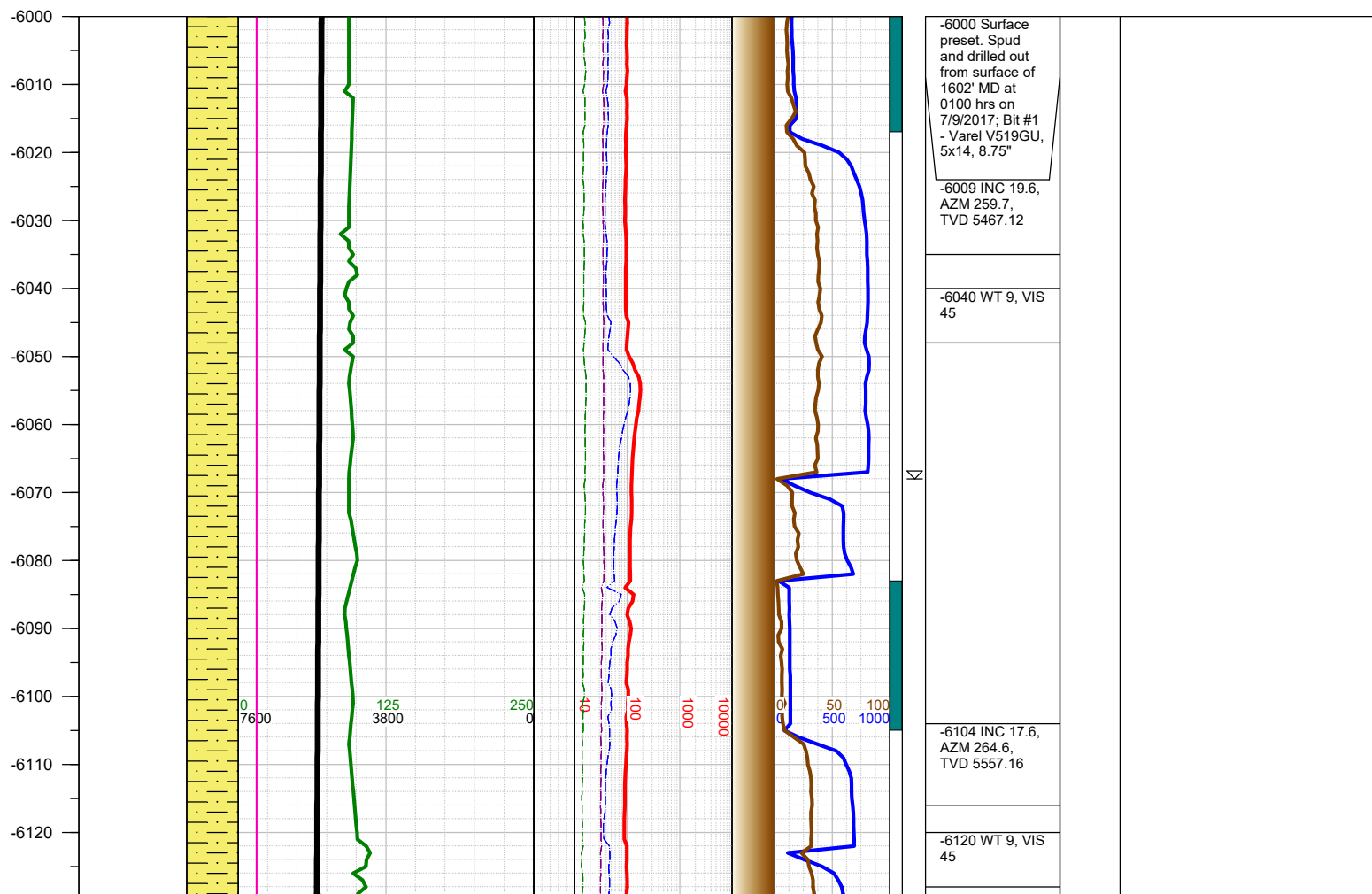
COUNTY: Weld
STATE: Colorado
GROUND ELEVATION: 4665'
KELLY BUSHING: 4690'
DRILLING FLUID: OBM
TVD VS. MD: 7152' / 20965'
SPUD DATE: July 9, 2017
TD DATE: July 18, 2017

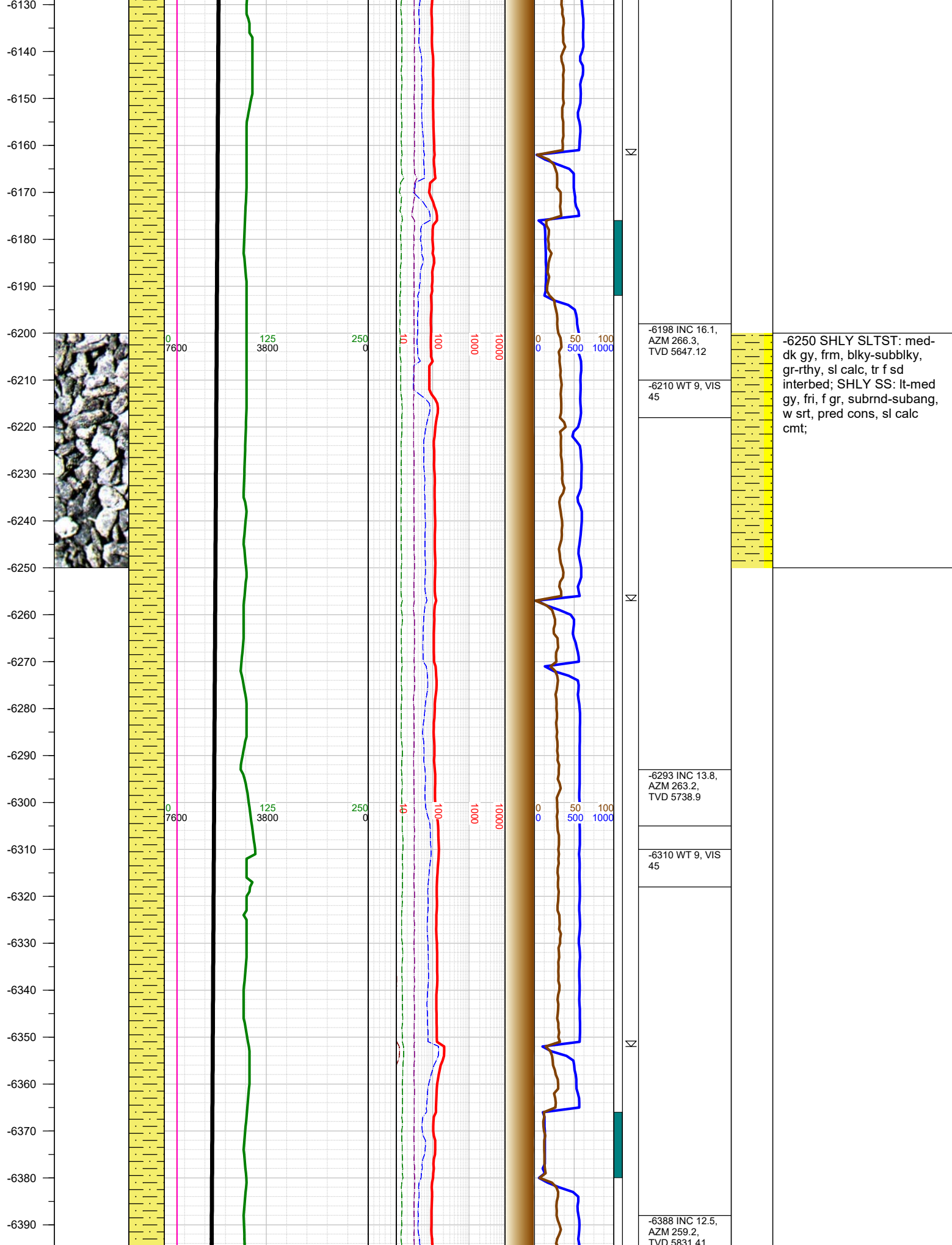
DEPTHS LOGGED: 6000' - 20965'
DATES LOGGED: July 9, 2017 - July 18, 2017
GEOLOGISTS: Blake Eatherton, Joe Coon
SCALE: 5" = 100'

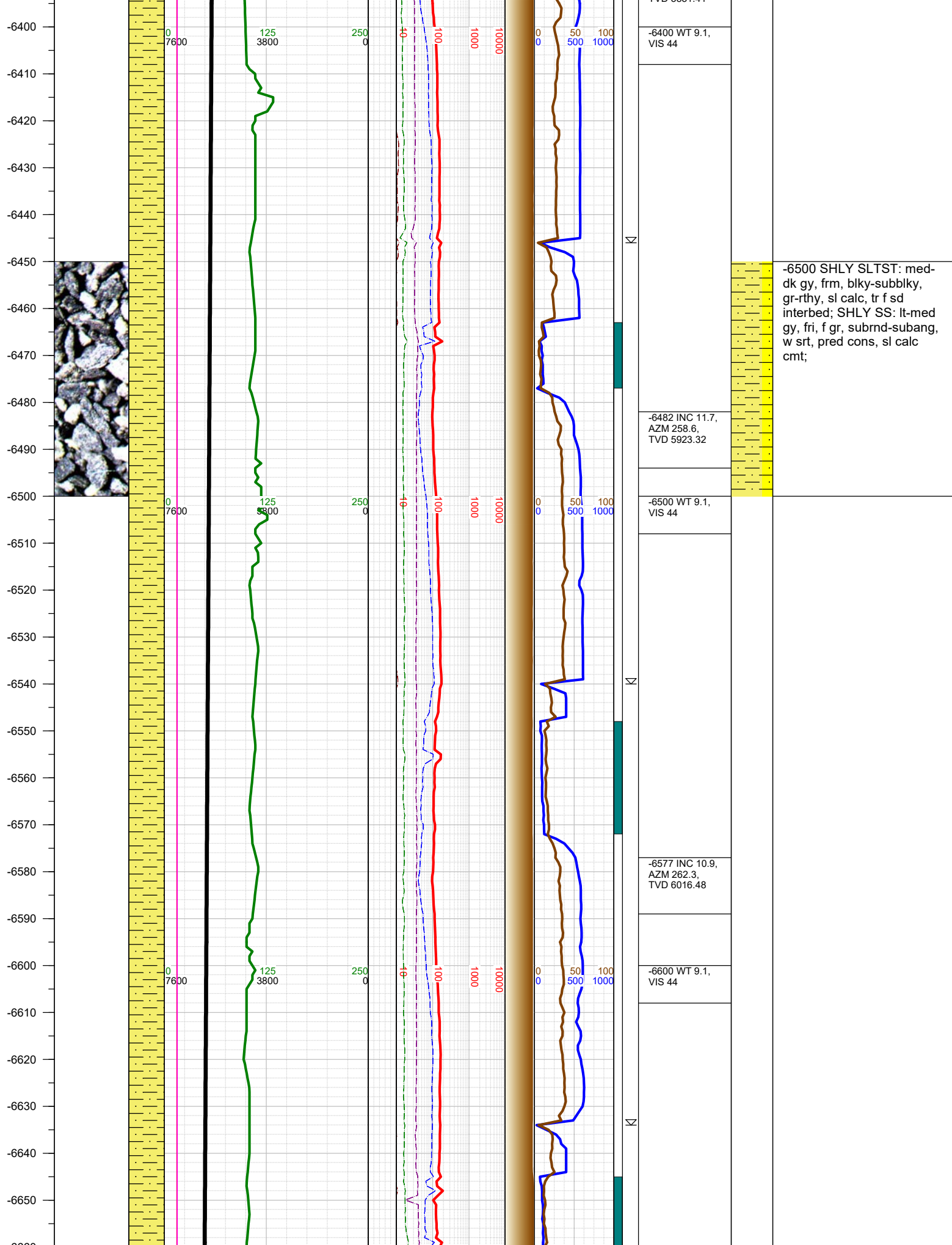
LEGEND

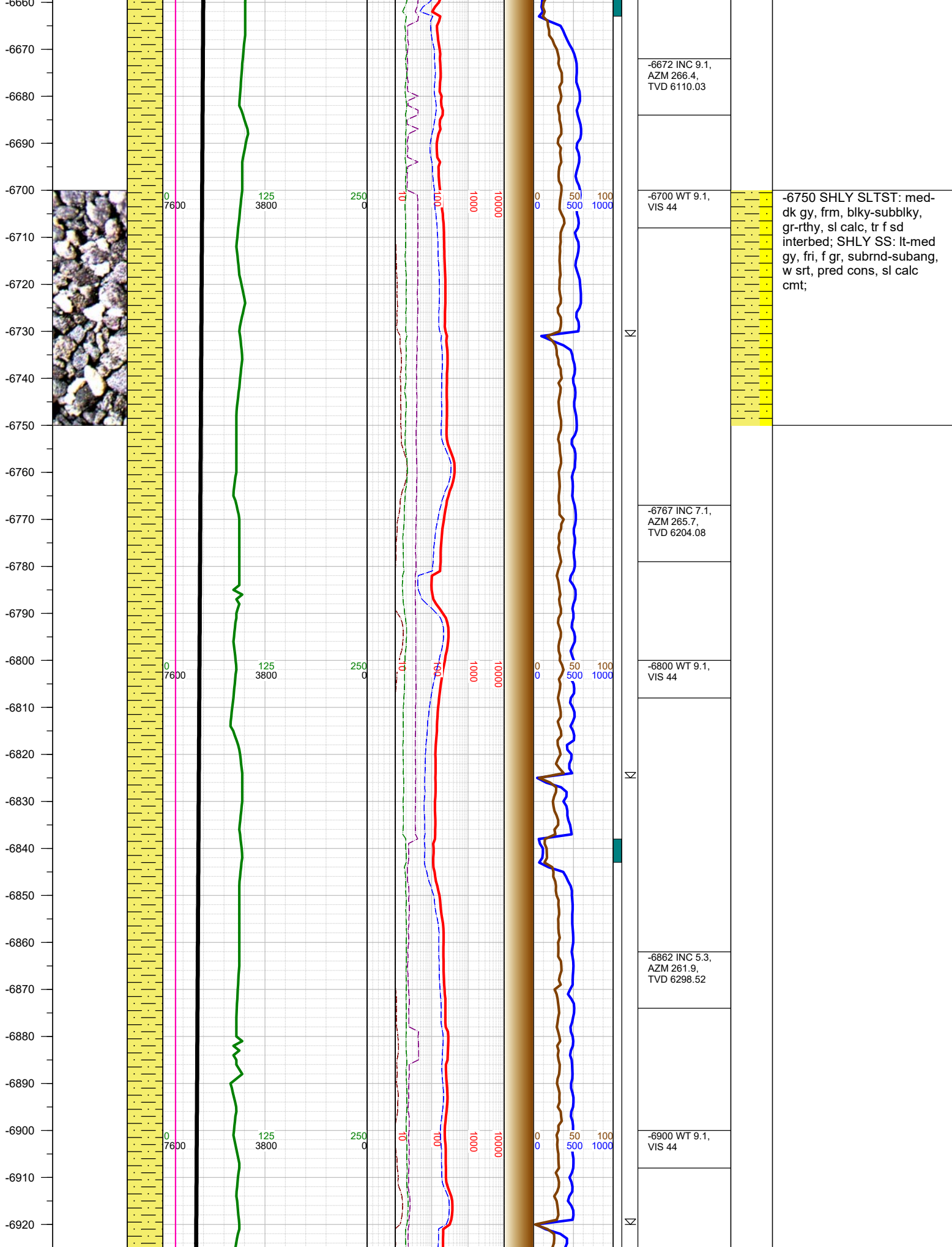


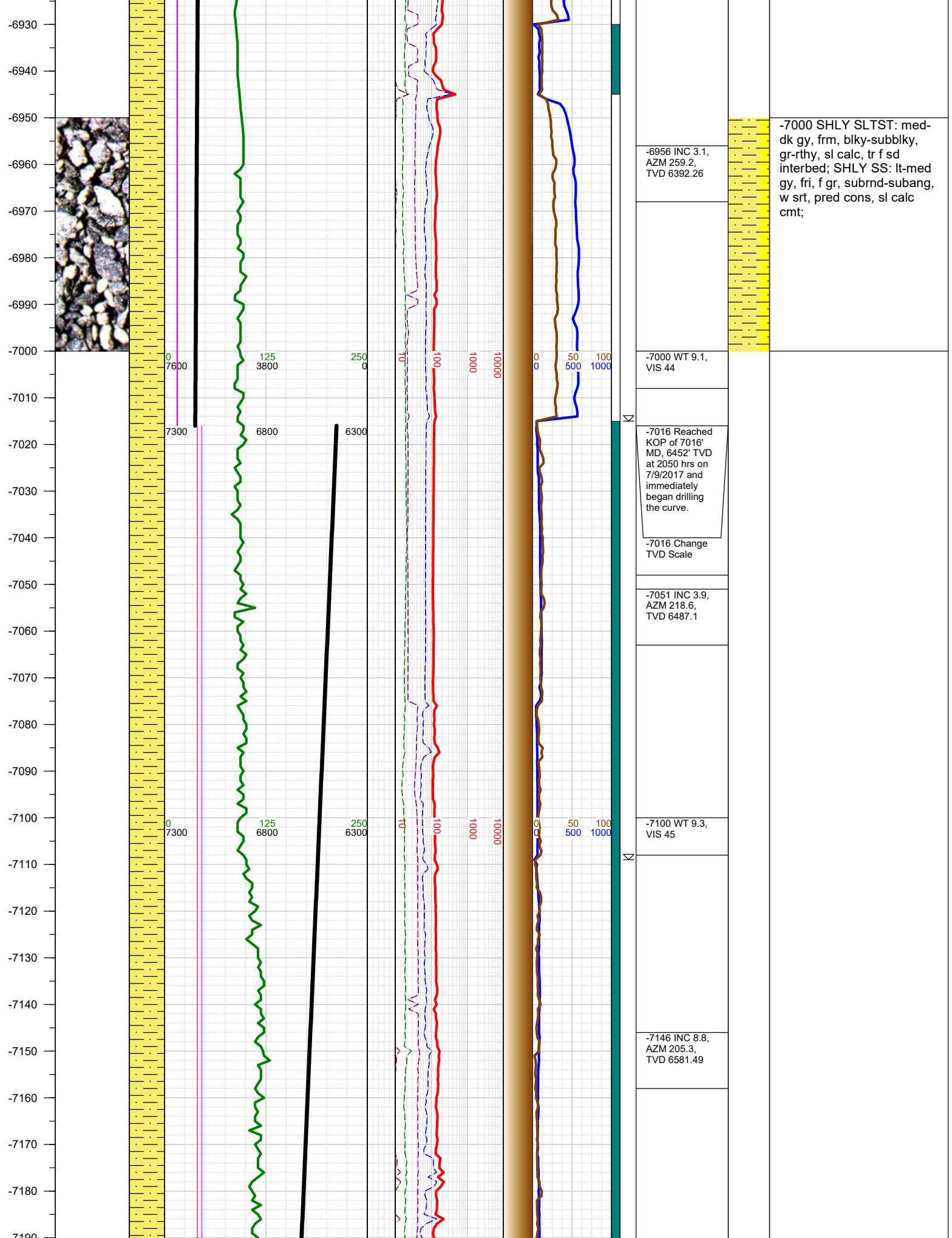
FORMATION \approx CONNECTION Δ MIDNIGHT NEW BIT GAS SHOW FAULT

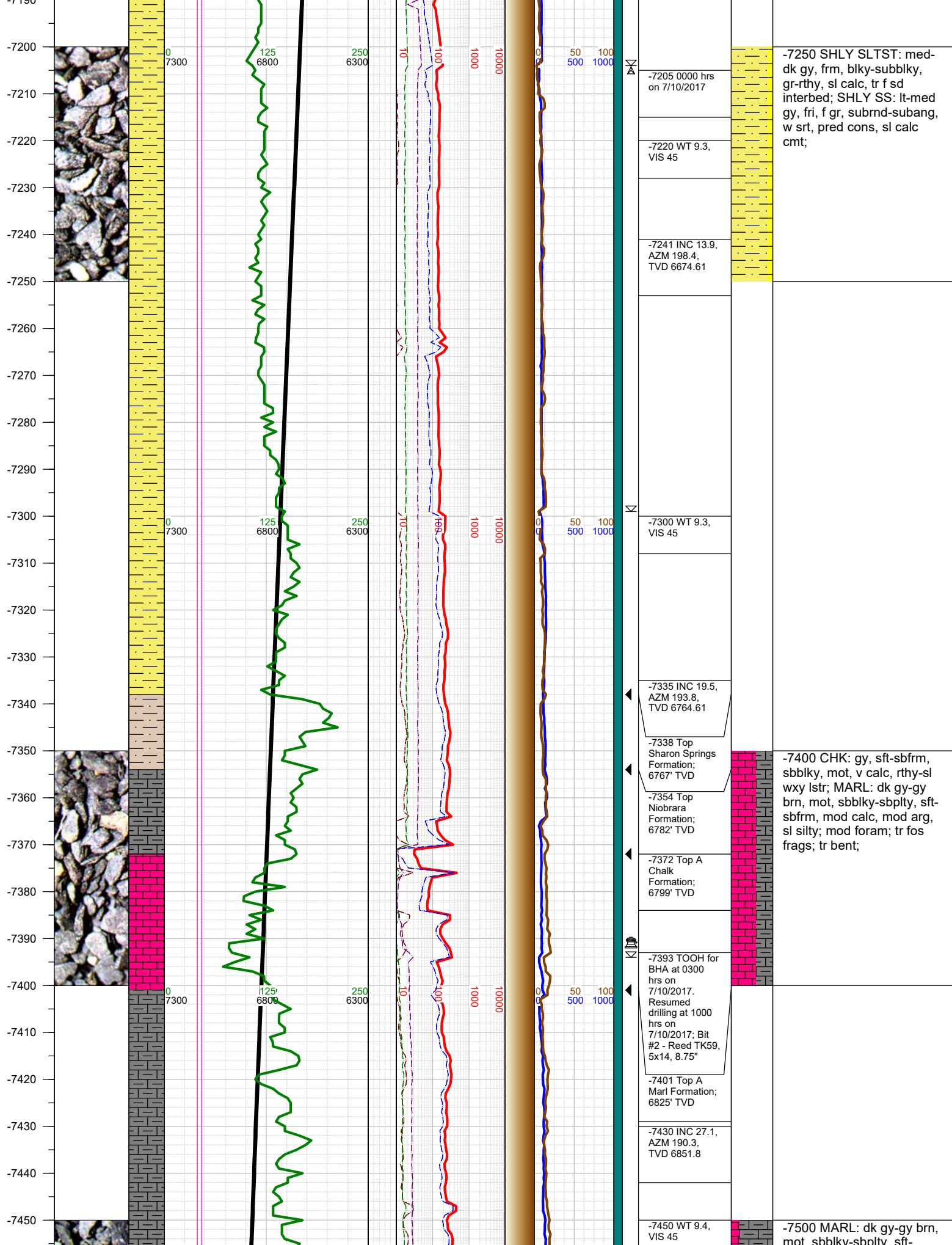


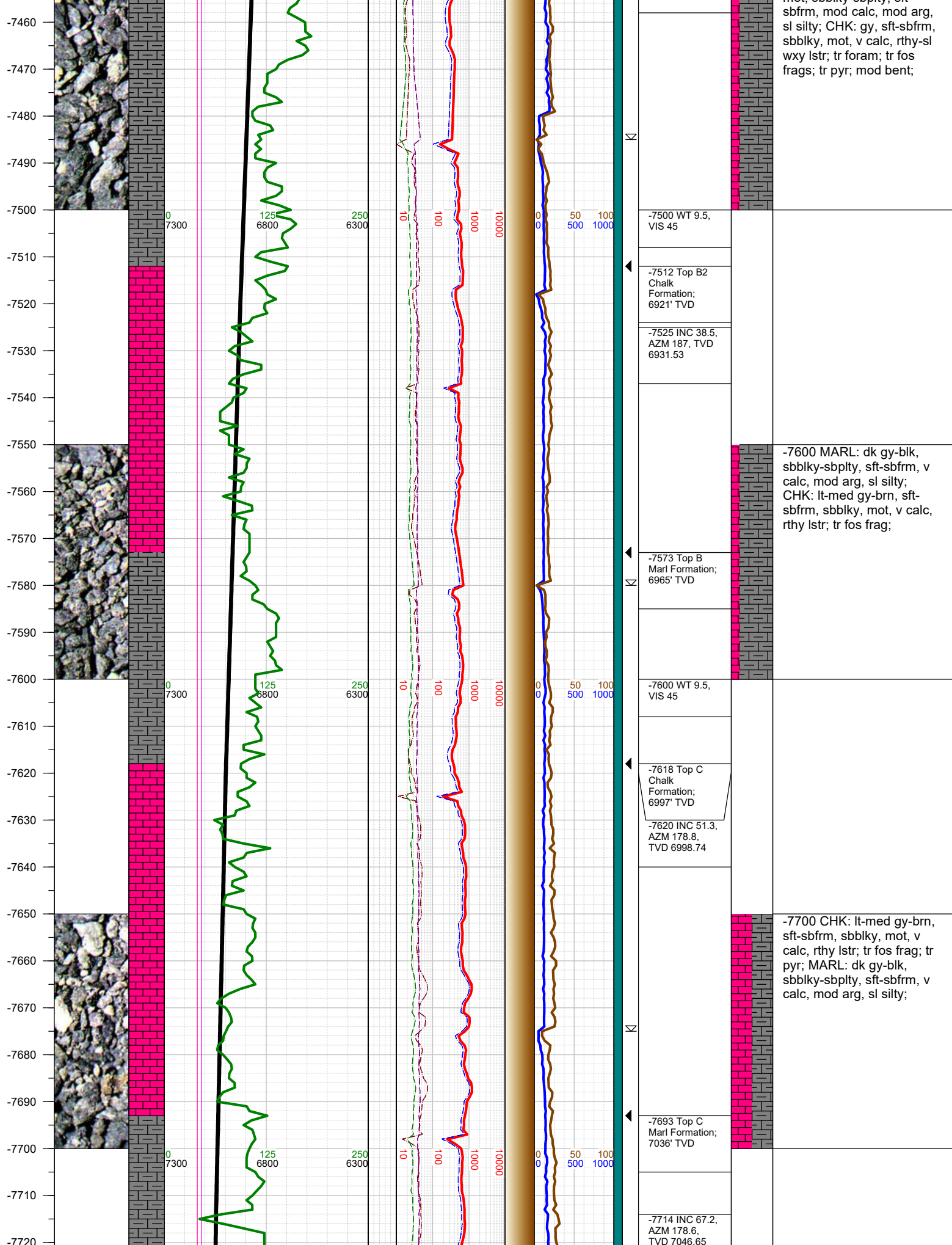


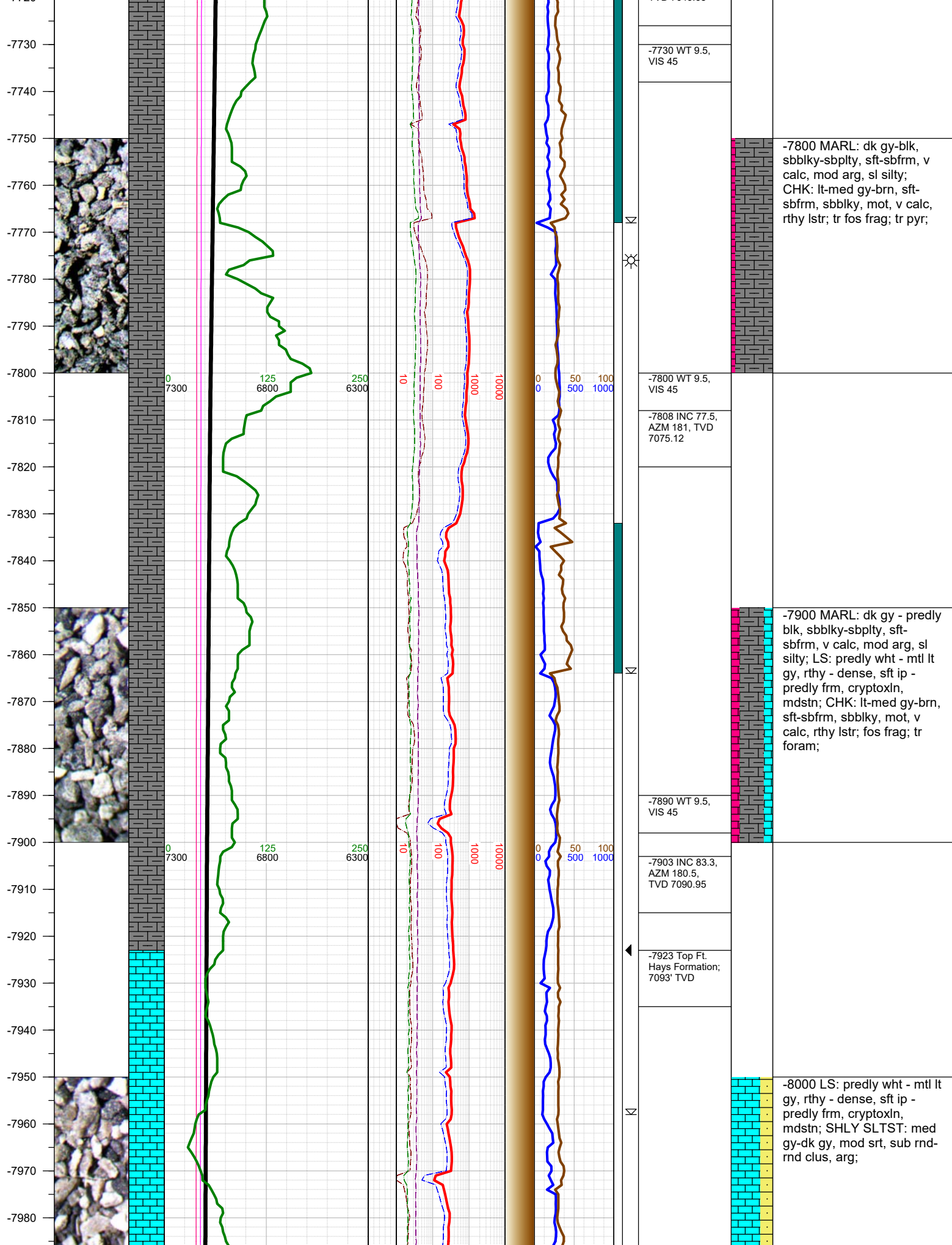


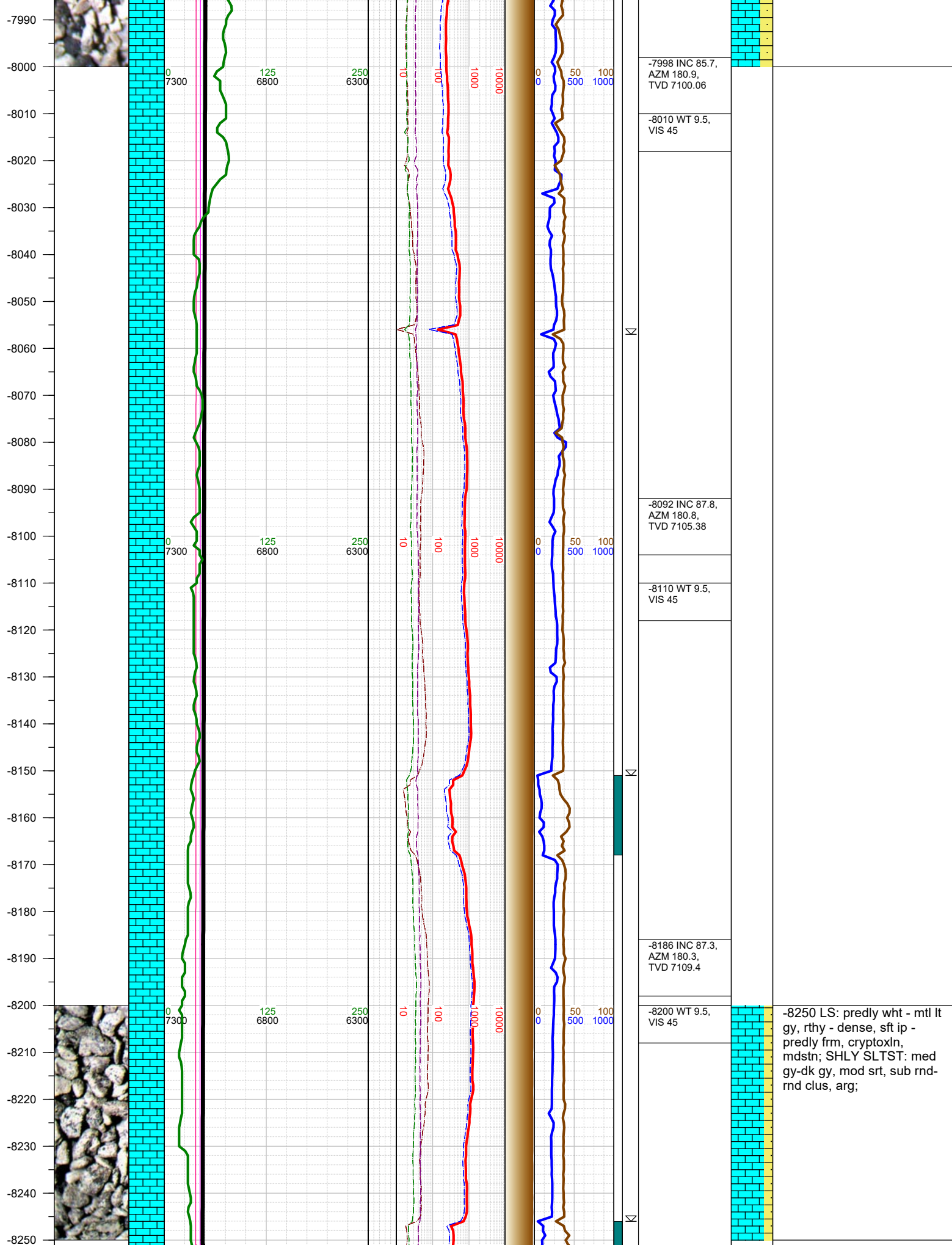


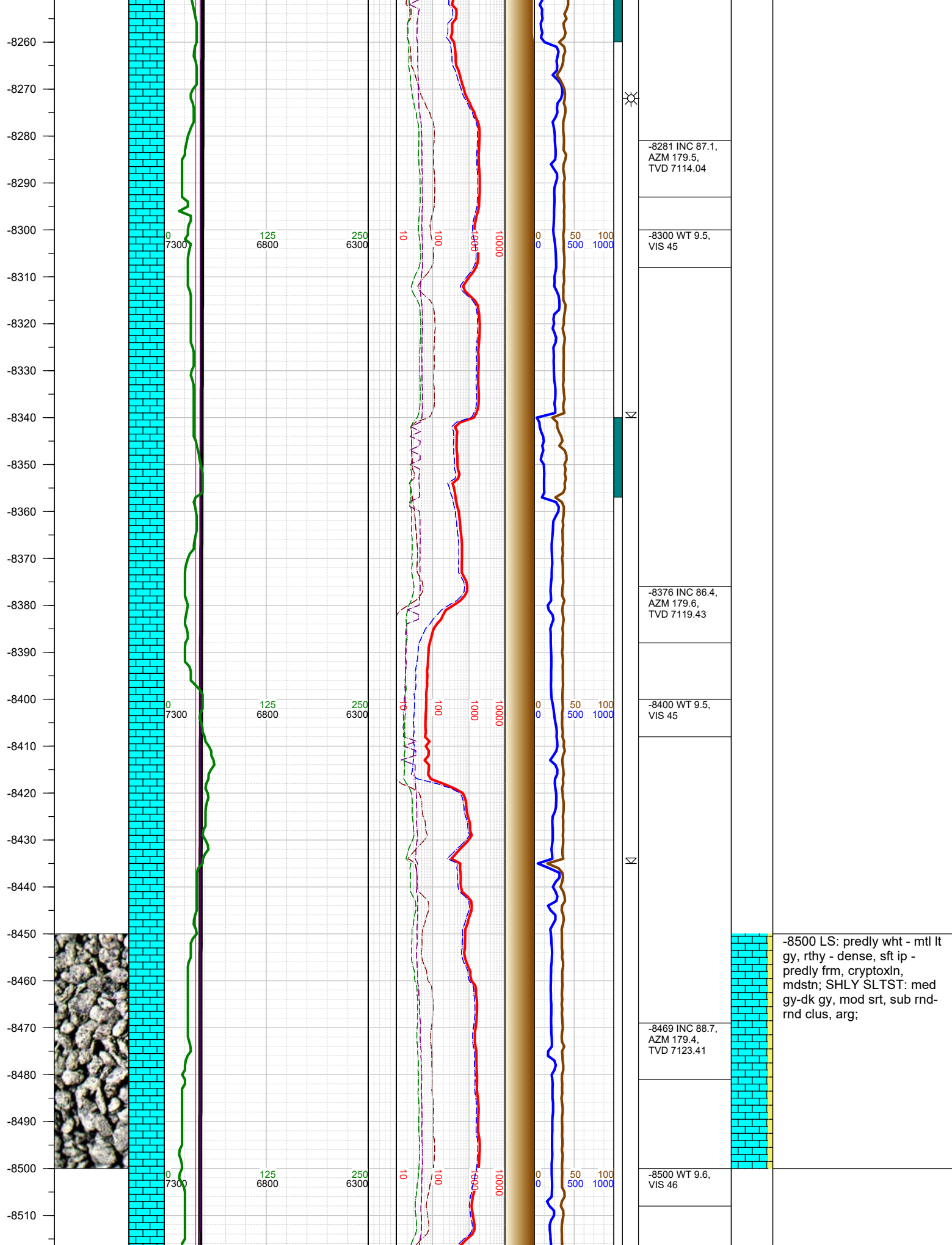


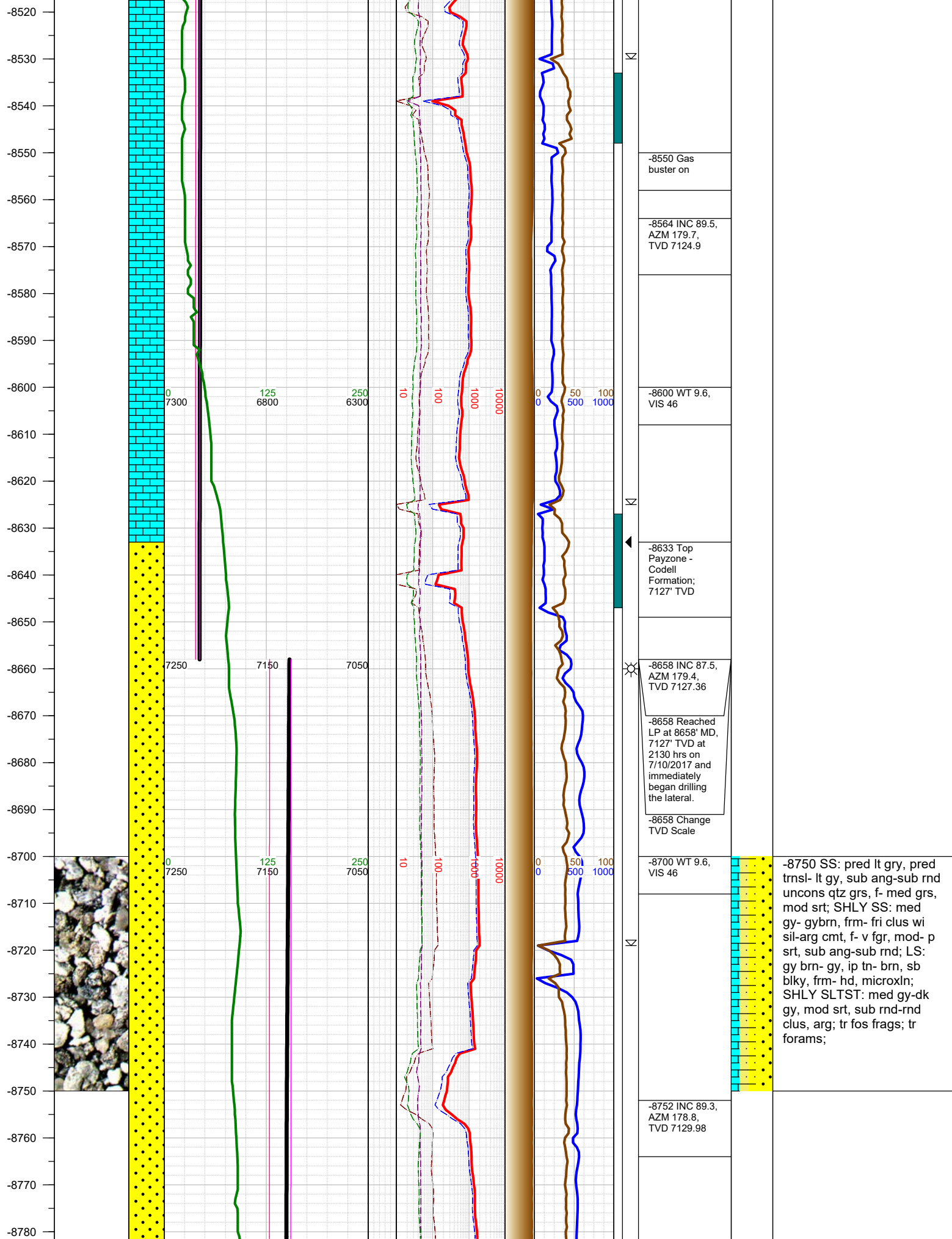


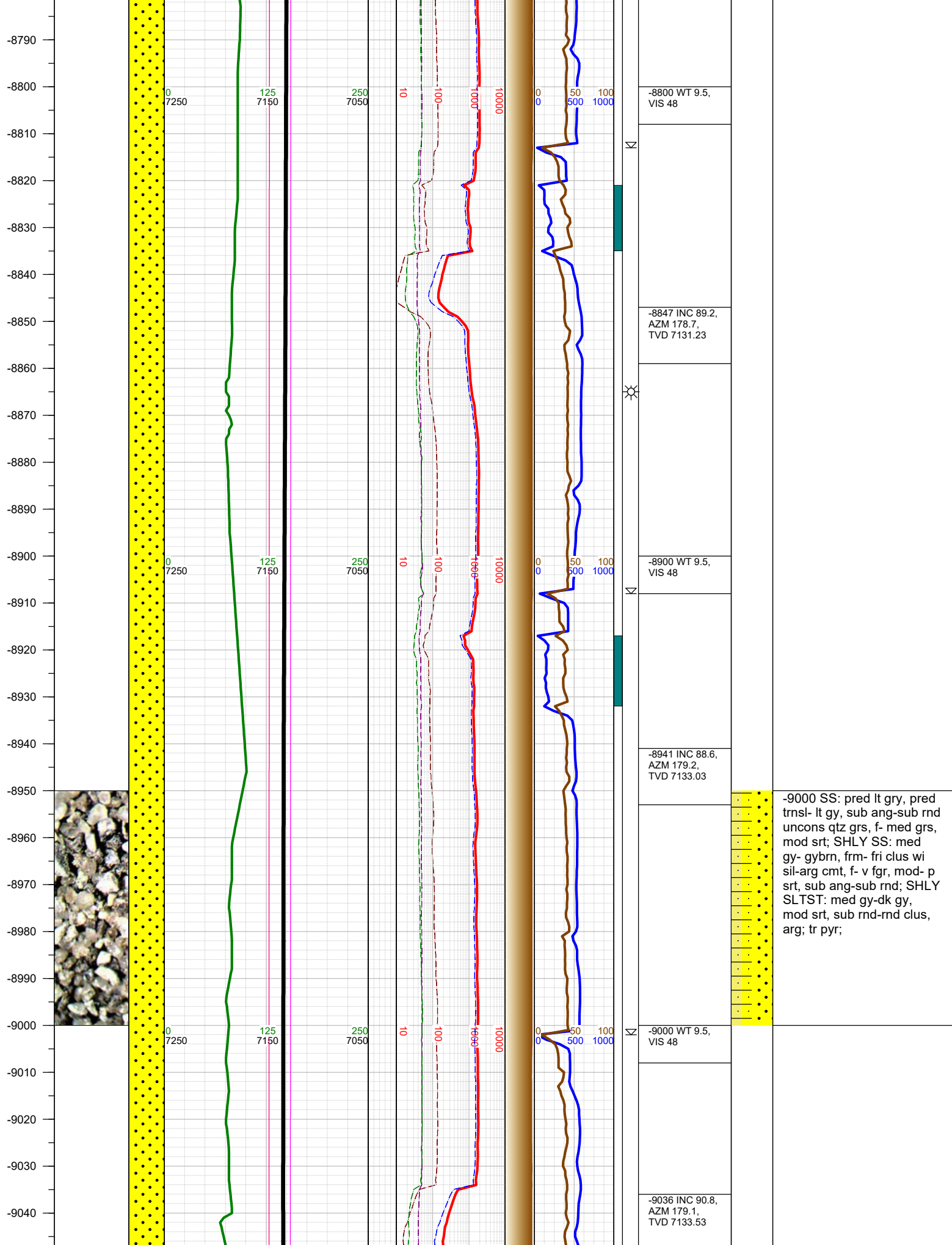




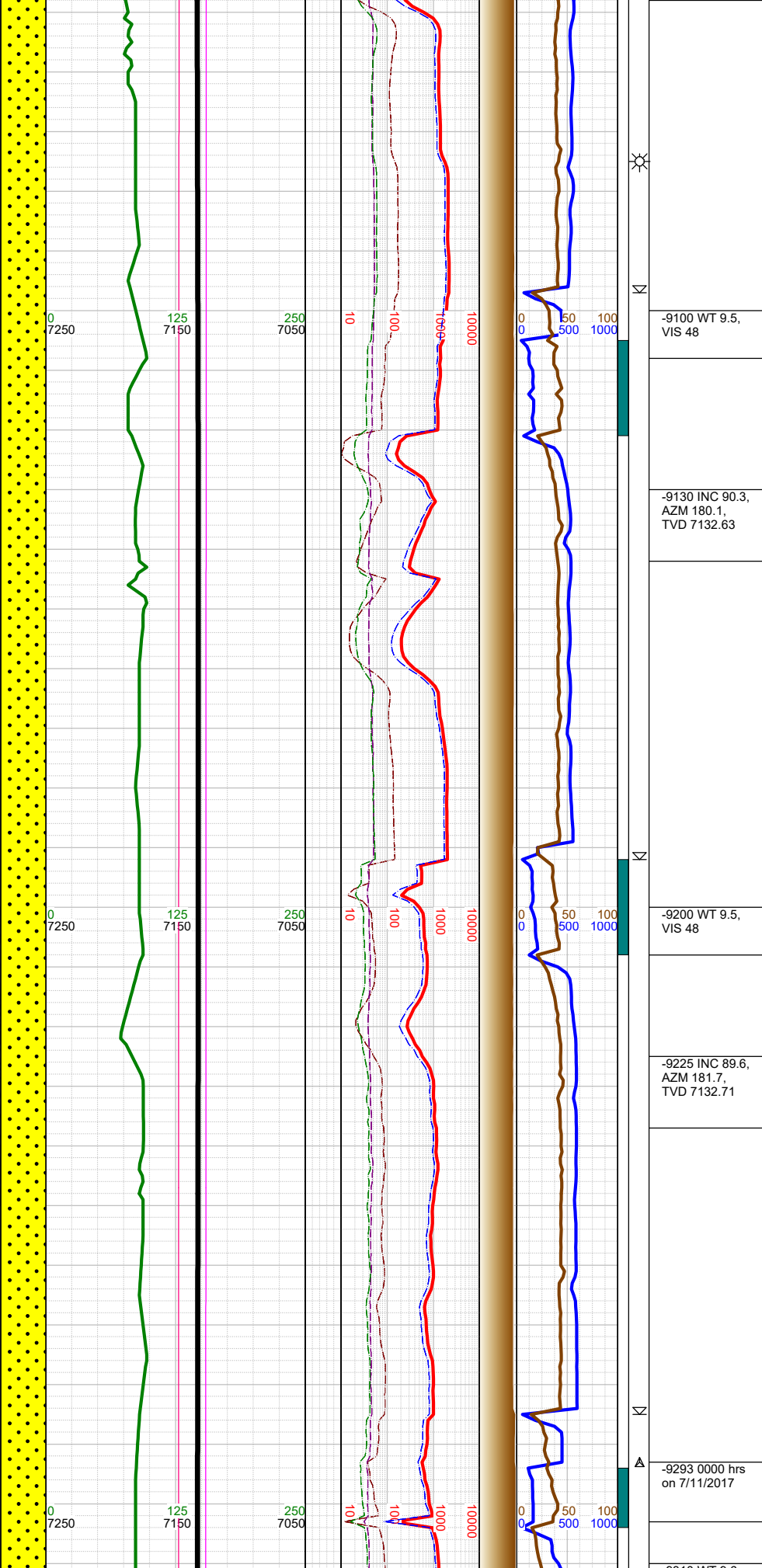








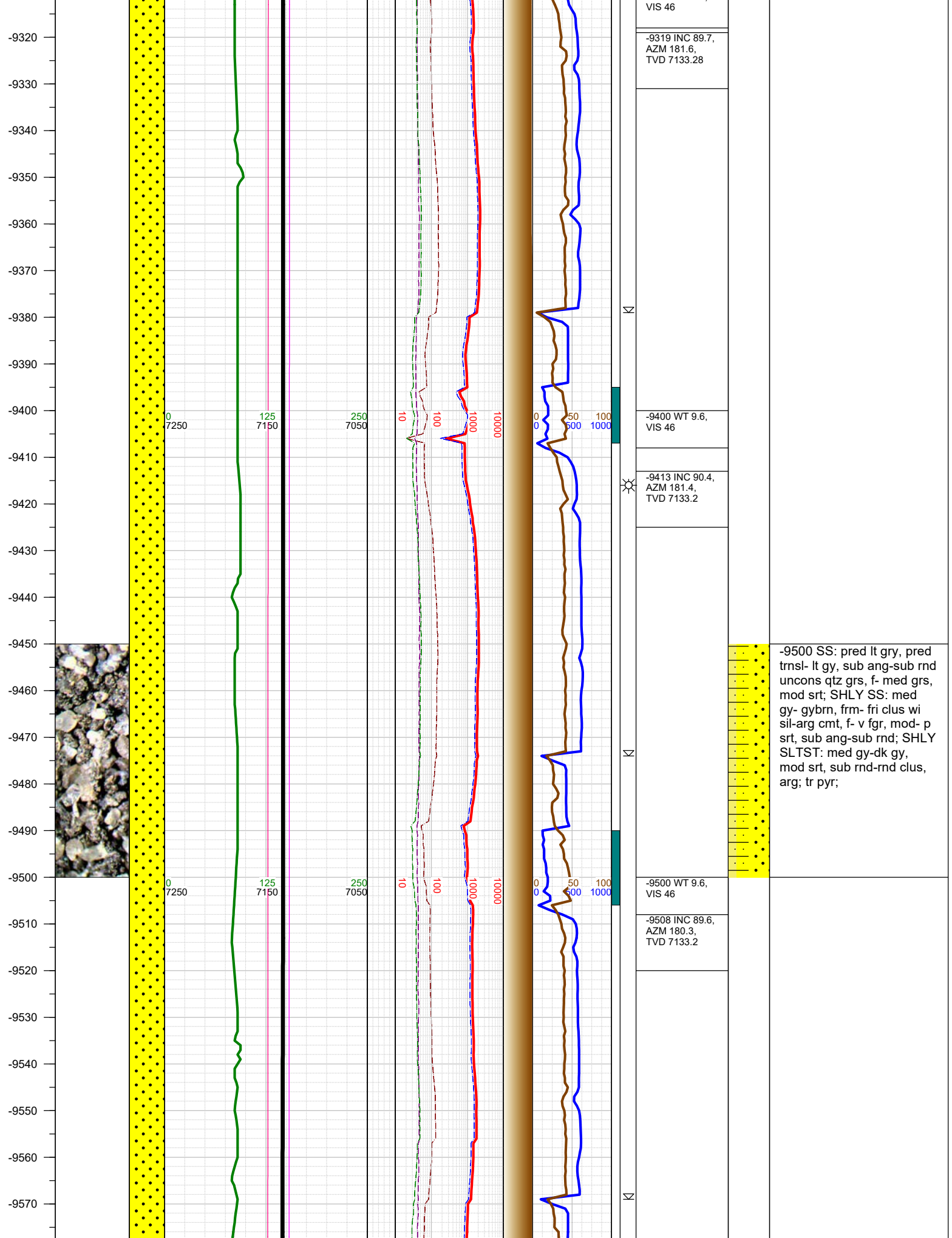
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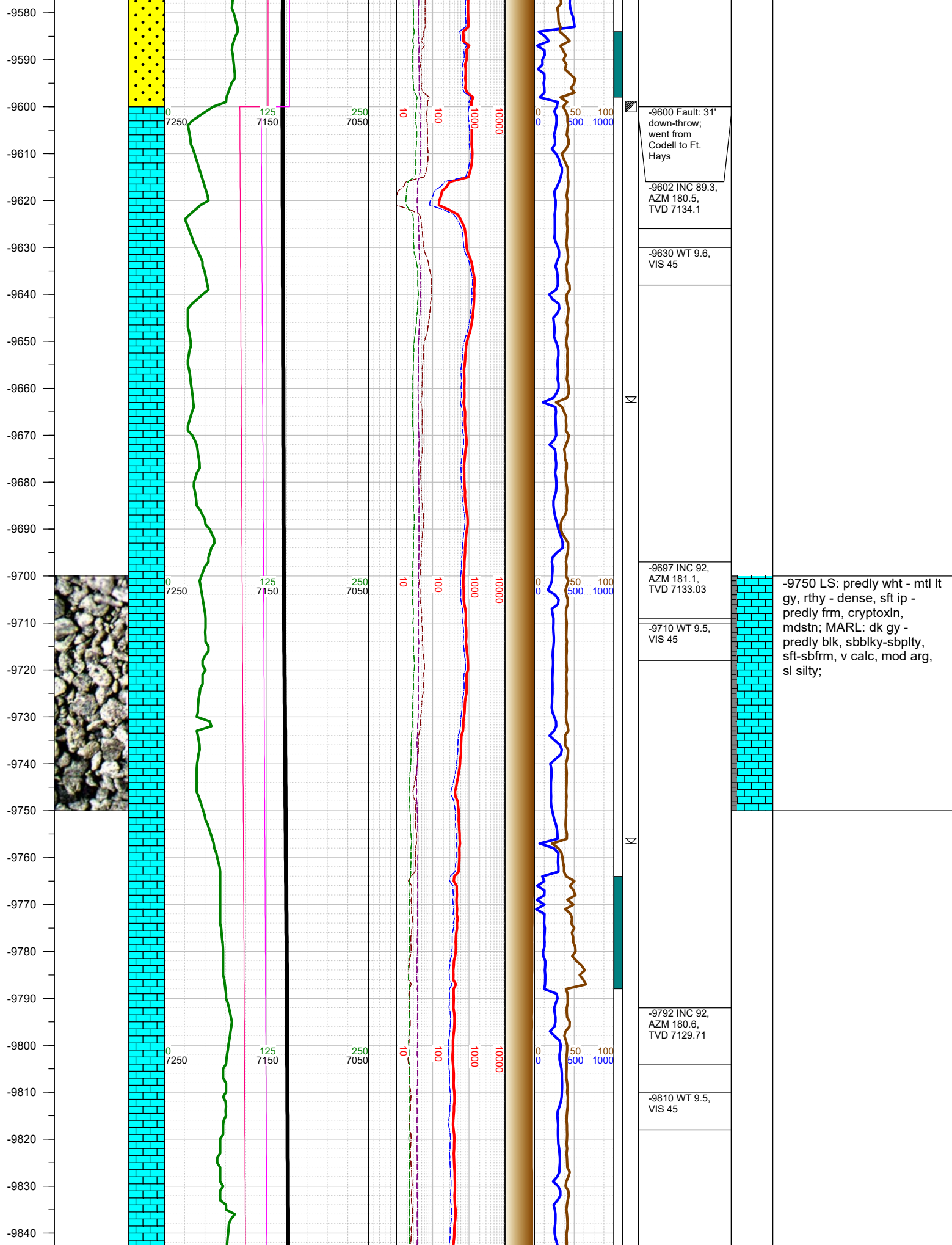


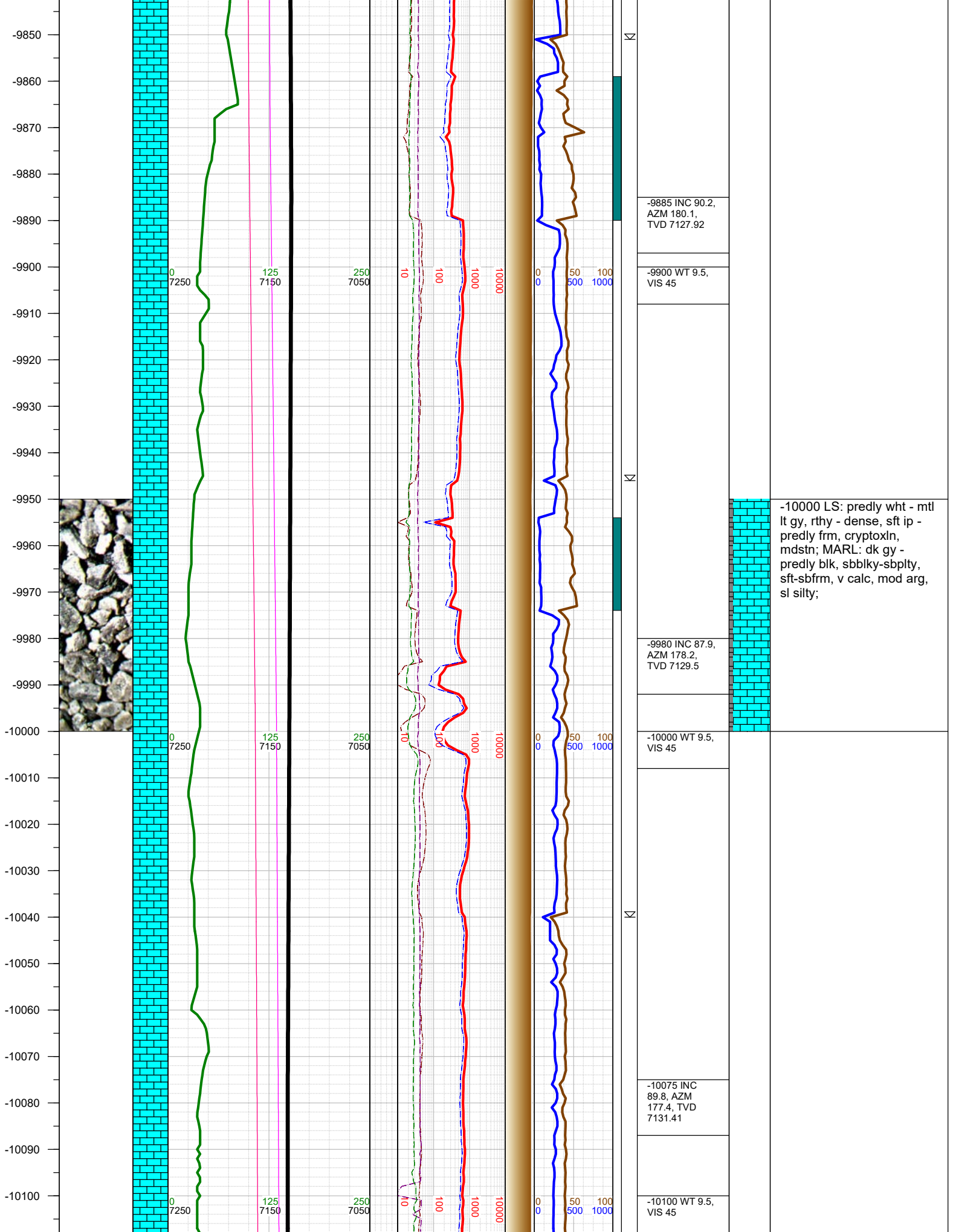
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	-9130 INC 90.3, AZM 180.1, TVD 7132.63
	-9200 WT 9.5, VIS 48
	-9225 INC 89.6, AZM 181.7, TVD 7132.71
	-9293 0000 hrs on 7/11/2017
	-9310 WT 9.6,

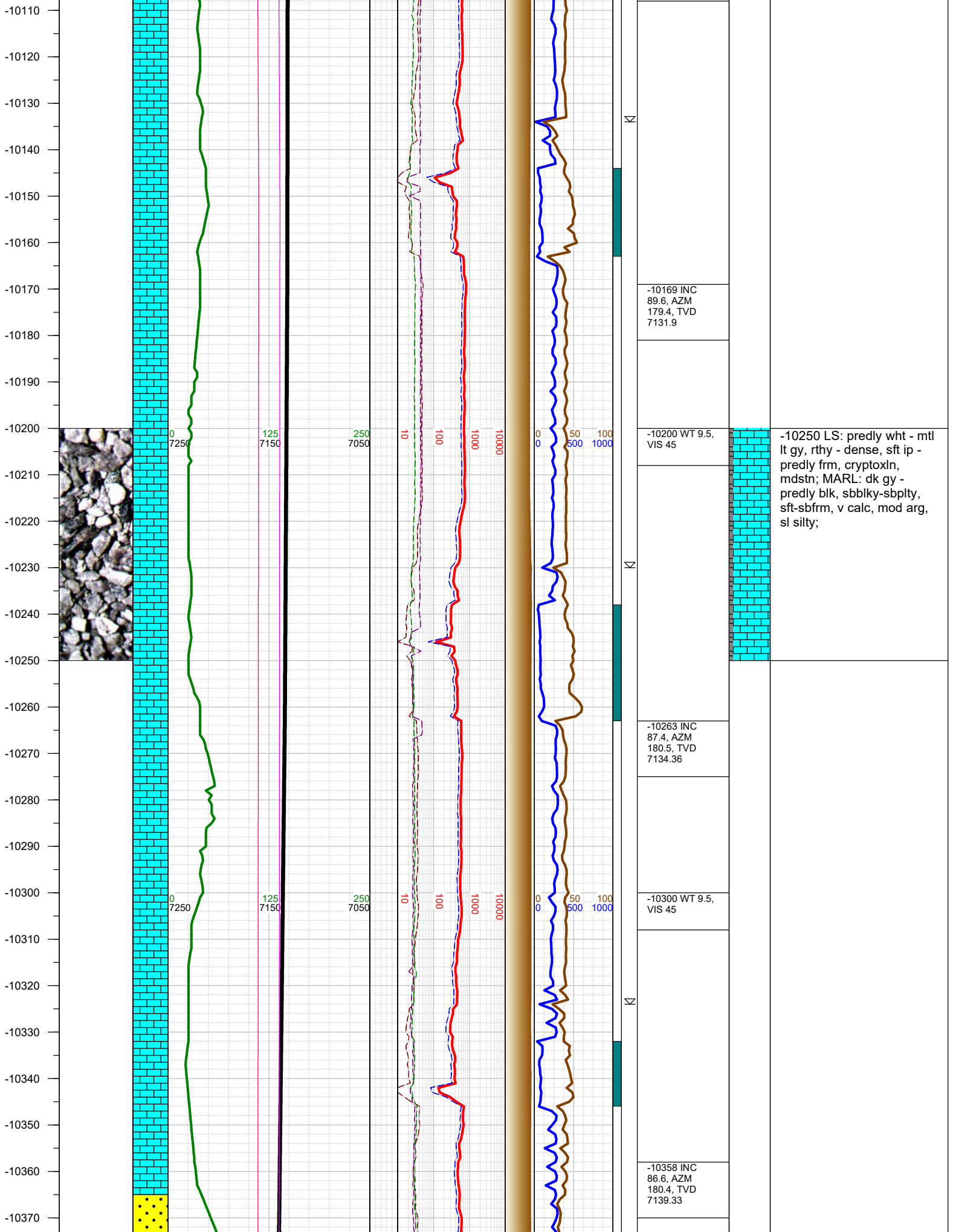


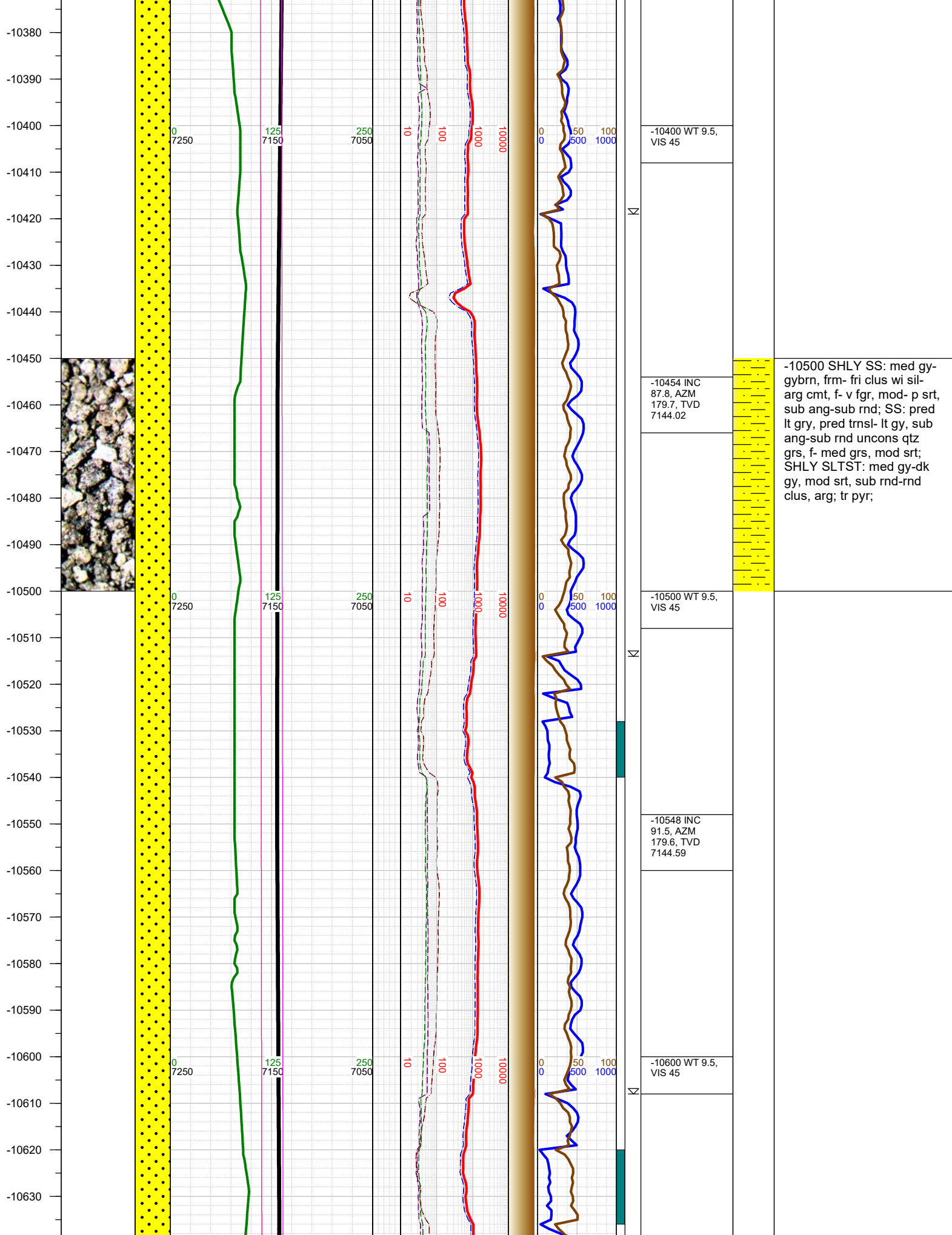
-9250 SS: pred lt gry, pred
trns- lt gy, sub ang-sub rnd
uncons qtz grs, f- med grs,
mod srt; SHLY SS: med
gy- gybrn, frm- fri clus wi
sil-arg cmt, f- v fgr, mod- p
srt, sub ang-sub rnd; SHLY
SLTST: med gy-dk gy,
mod srt, sub rnd-rnd clus,
arg; tr pyr;

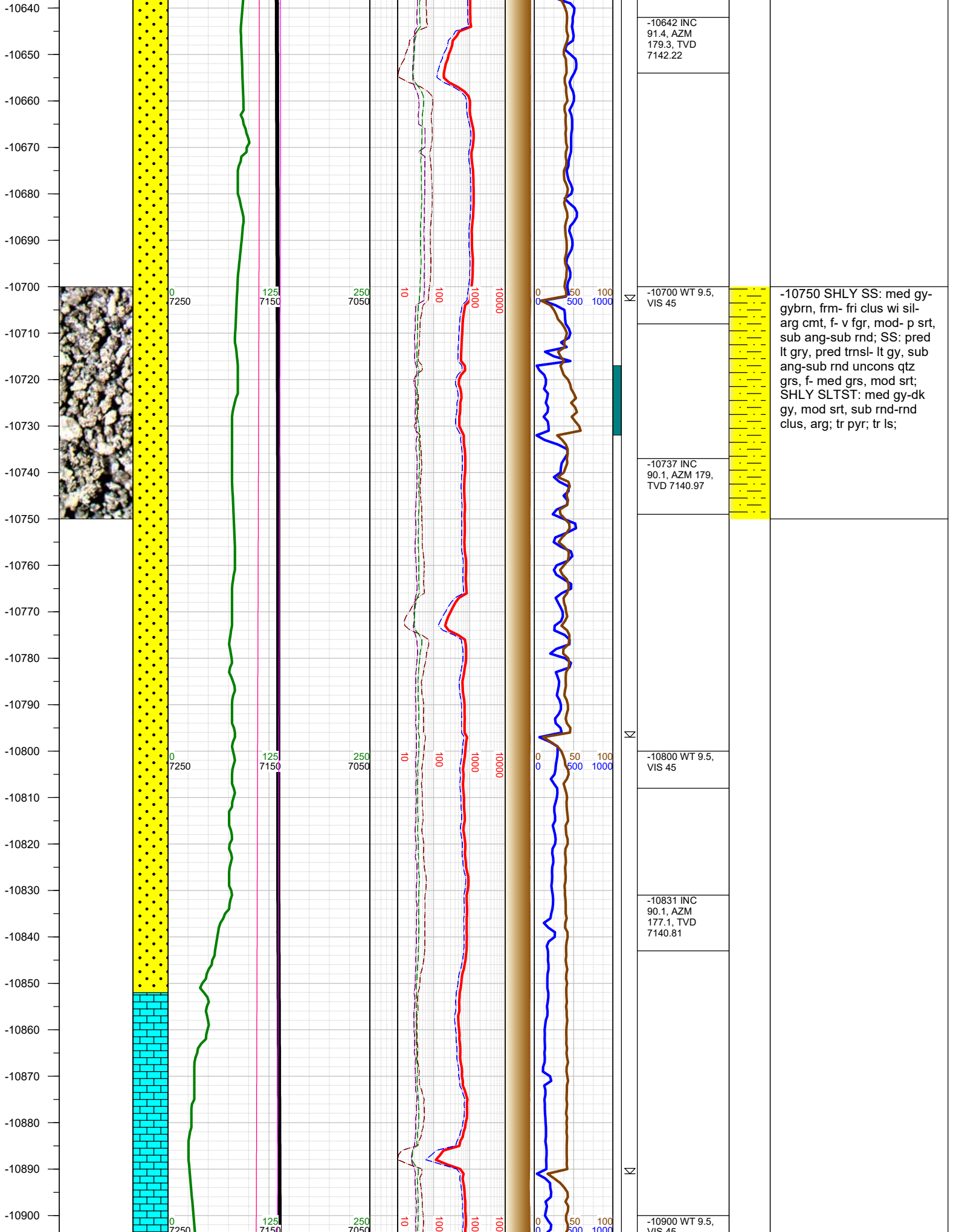


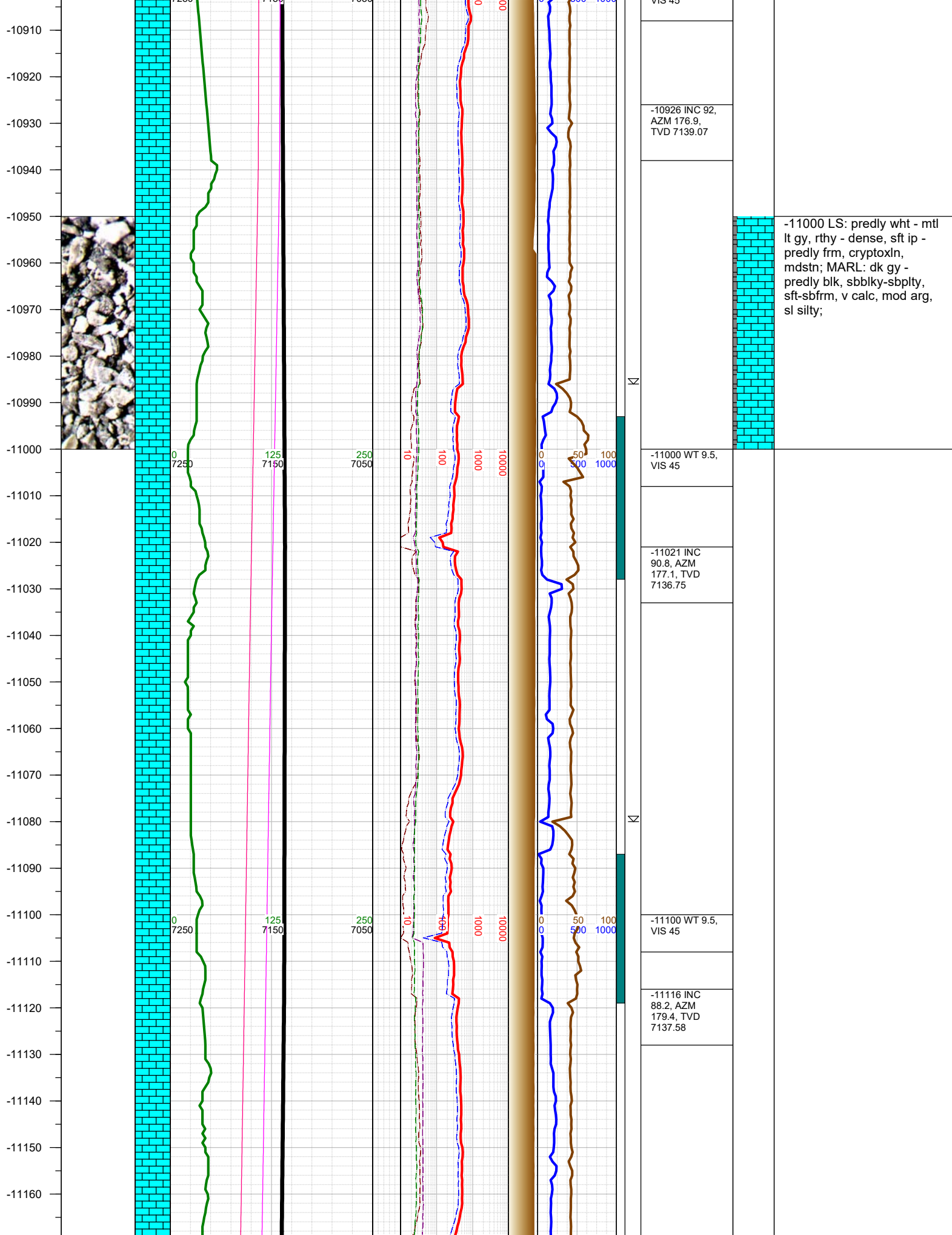


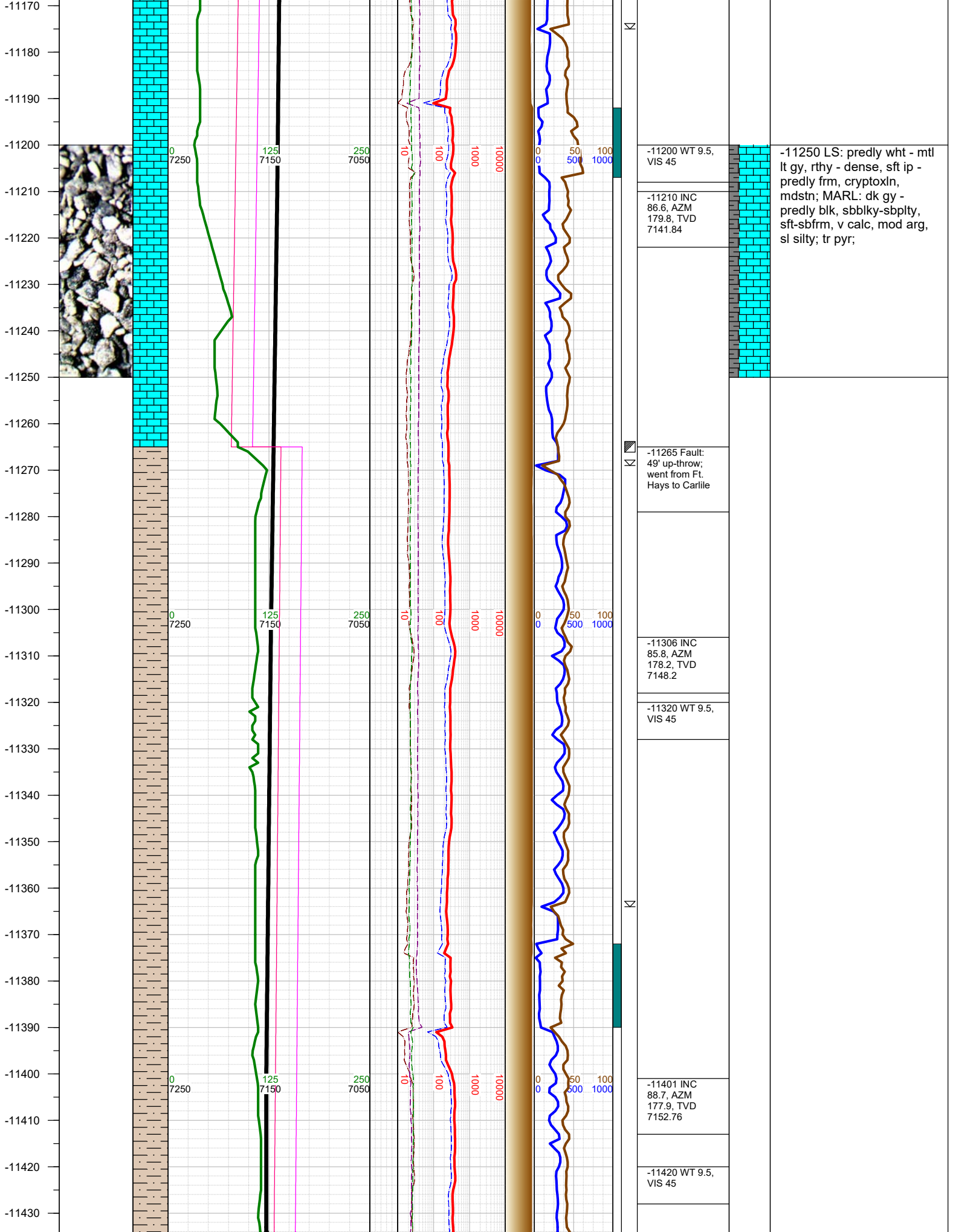




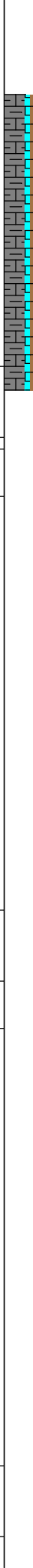
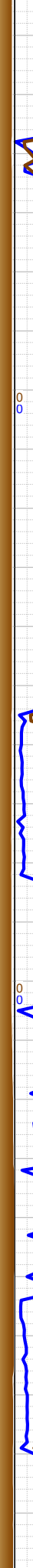
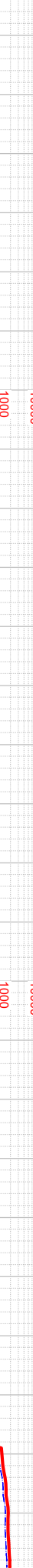
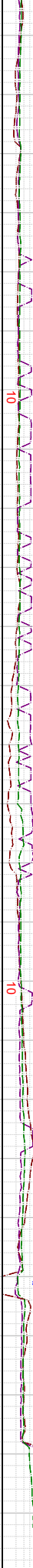
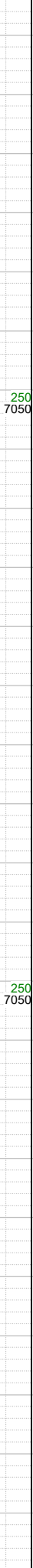
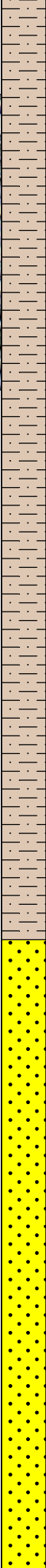








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-11500 SH: dk gy-predly blk, sbbly-sbply, sft-sb fim; sl silty; tr pyr; tr fos frags; mod forams; MARL: dk gy - predly blk, sbbly-sbply, sft-sbfrm, v calc, mod arg, sl silty; LS: predly wht - mtl lt gy, rthy - dense, sft ip - predly frm, cryptoxln, mdstn;

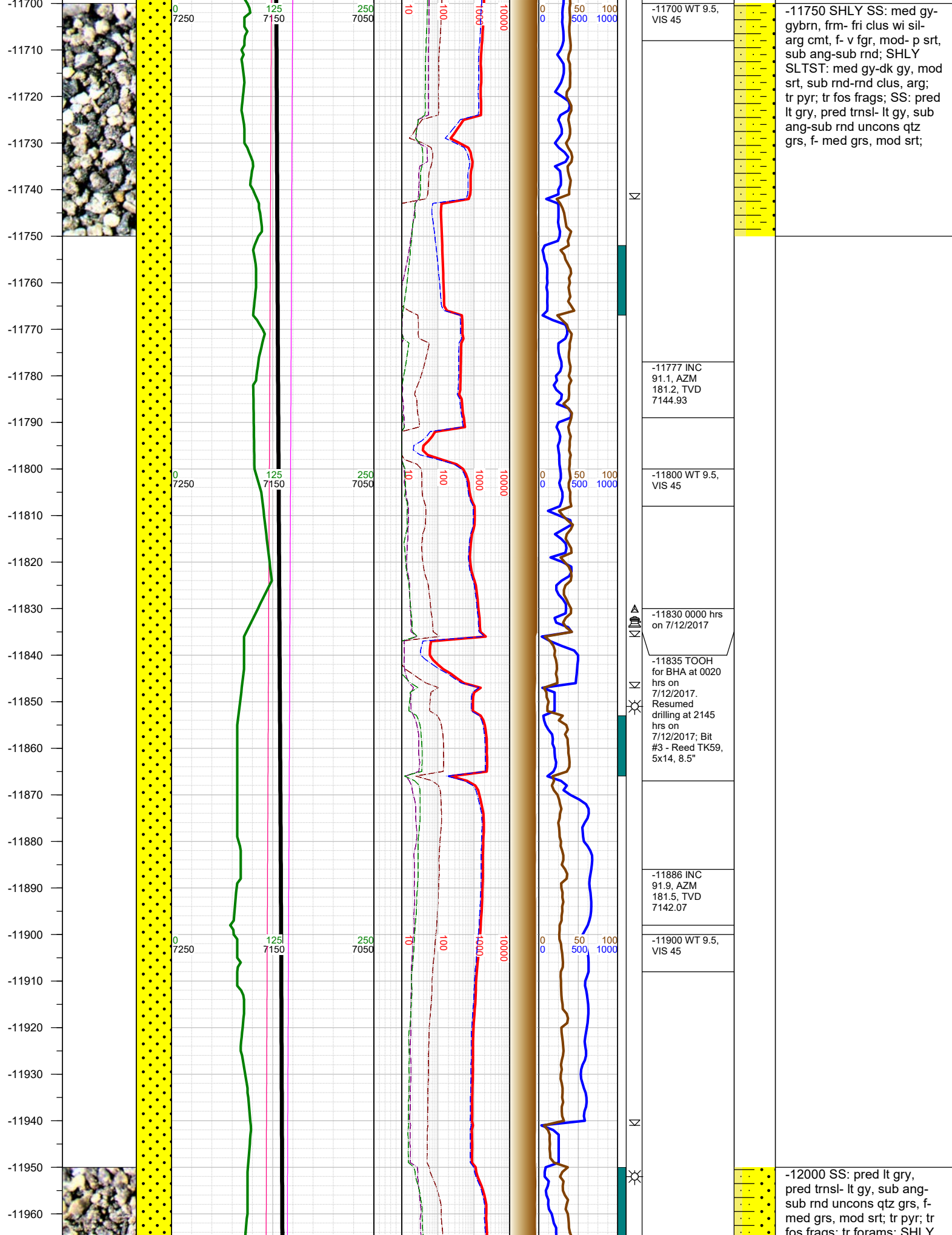
-11496 INC
91.5, AZM
177.9, TVD
7152.59

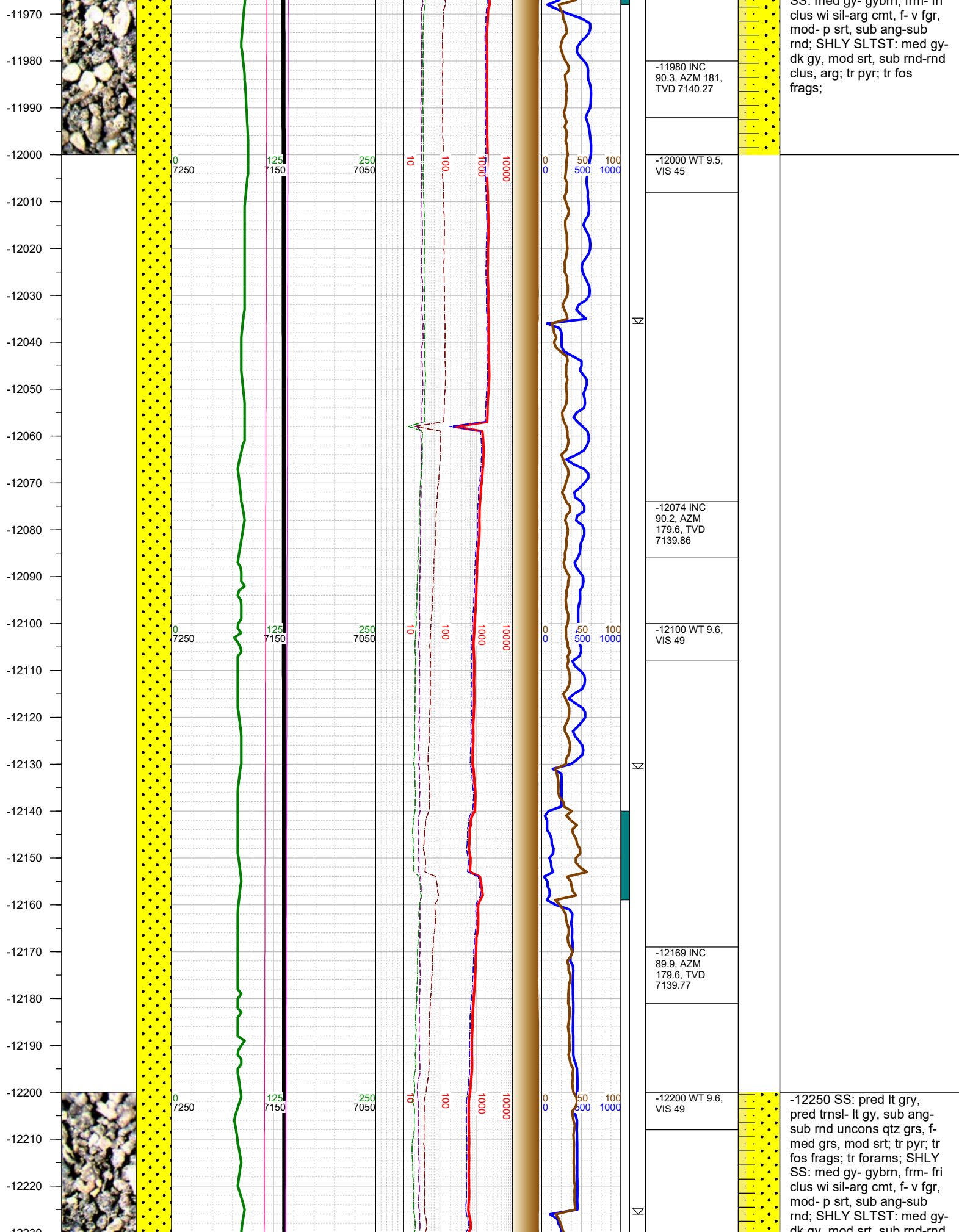
-11510 WT 9.5,
VIS 45

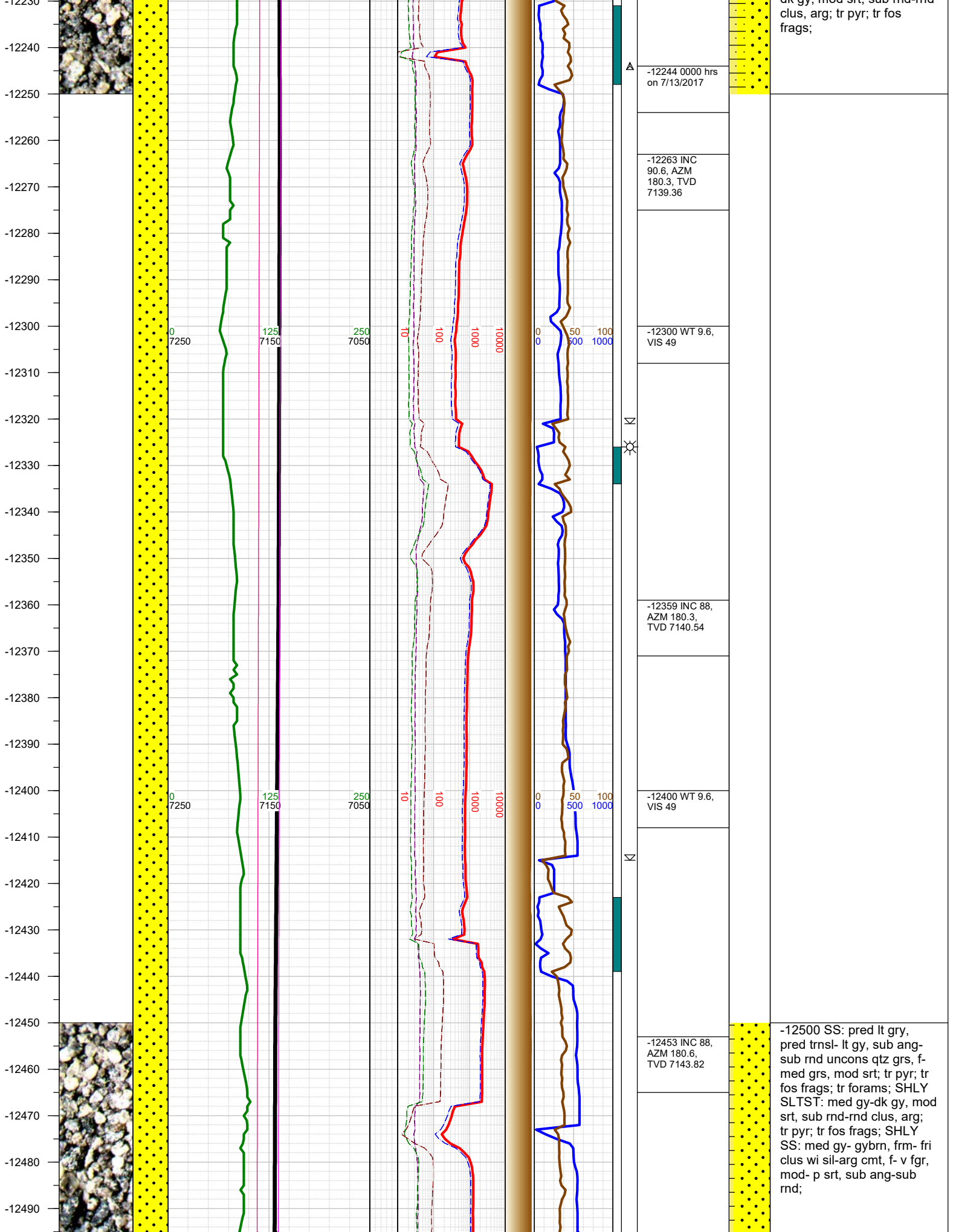
-11588 INC
92.1, AZM
179.2, TVD
7149.7

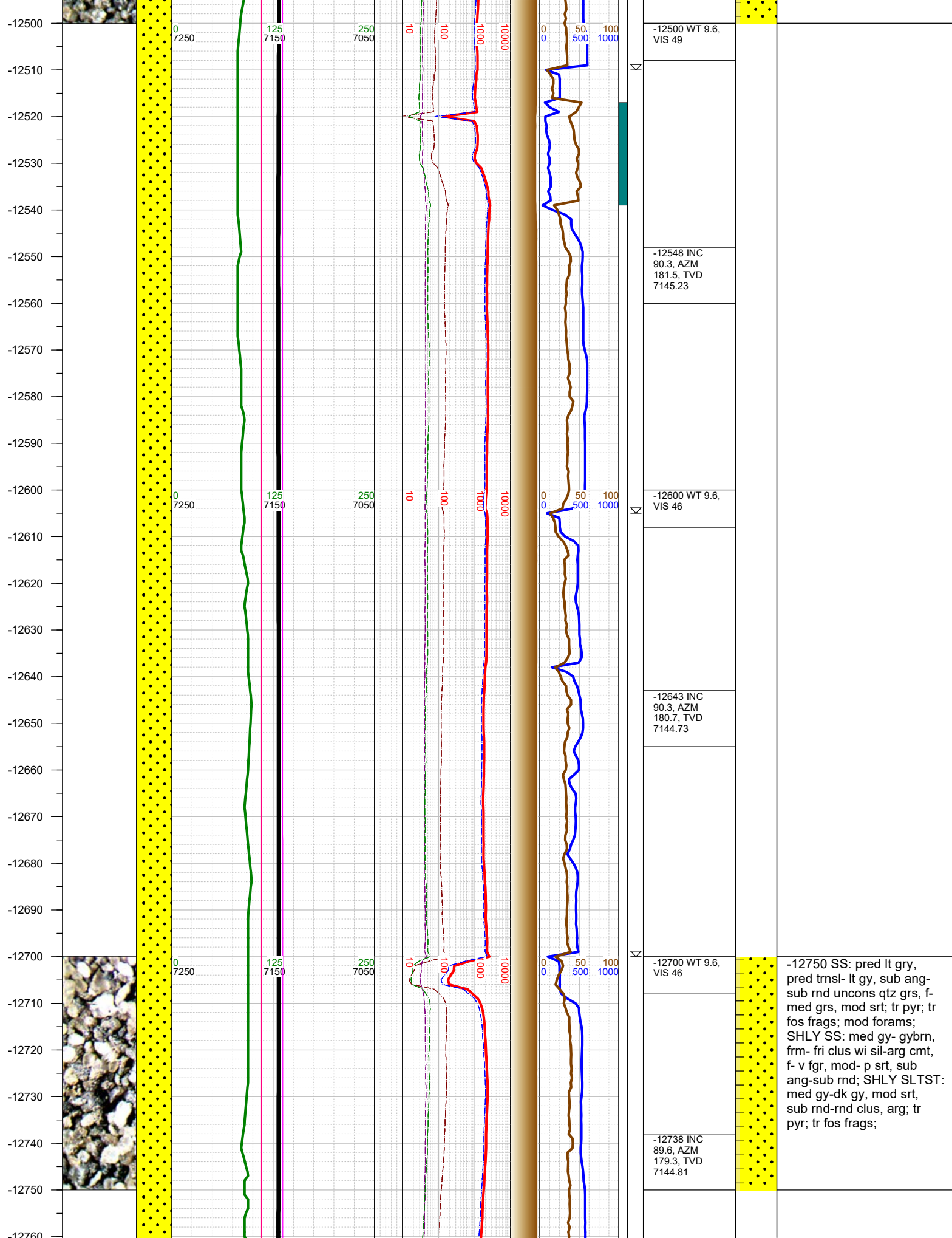
-11600 WT 9.5,
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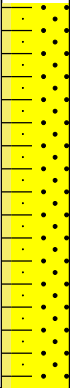
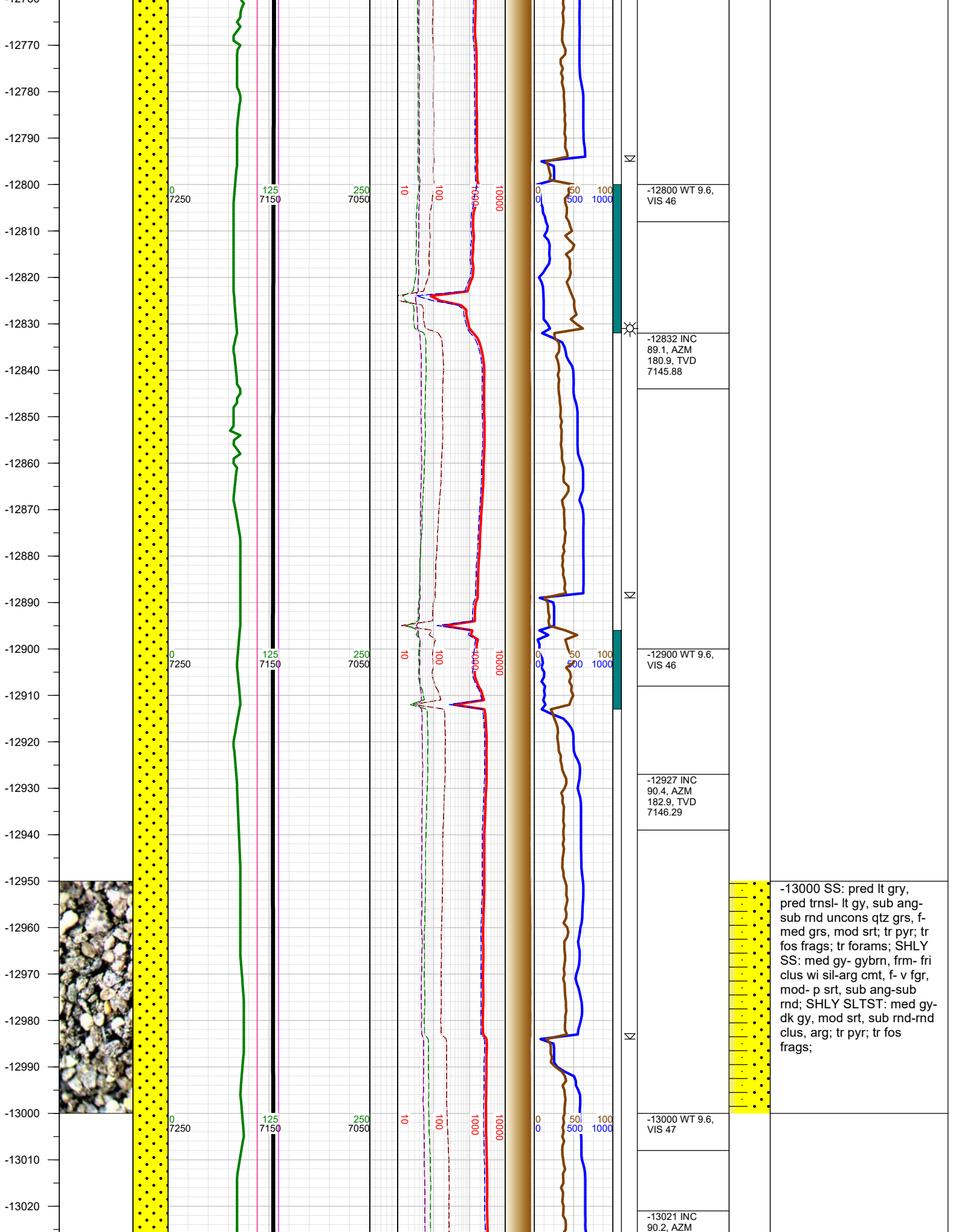
-11682 INC
91.3, AZM
179.9, TVD
7146.92



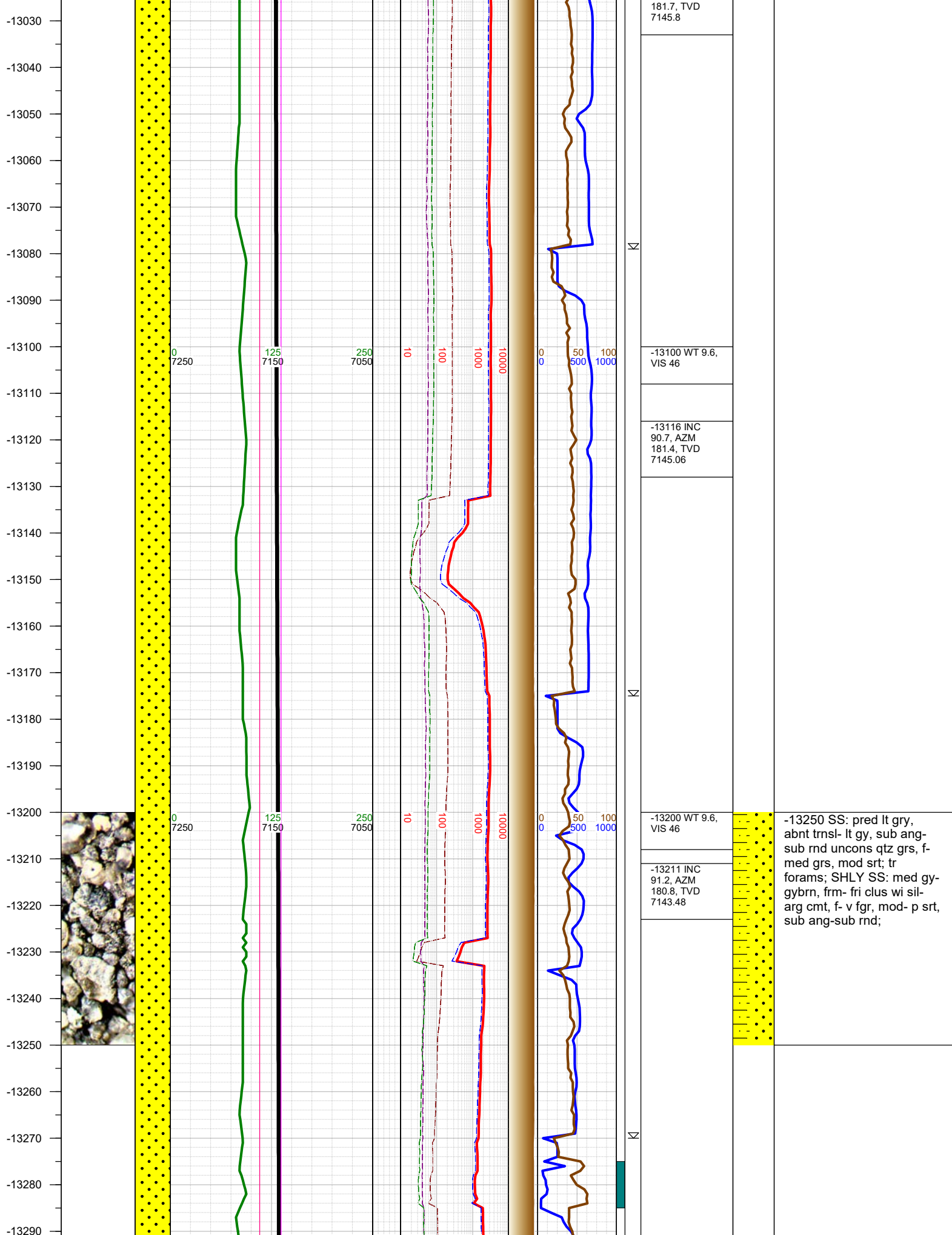


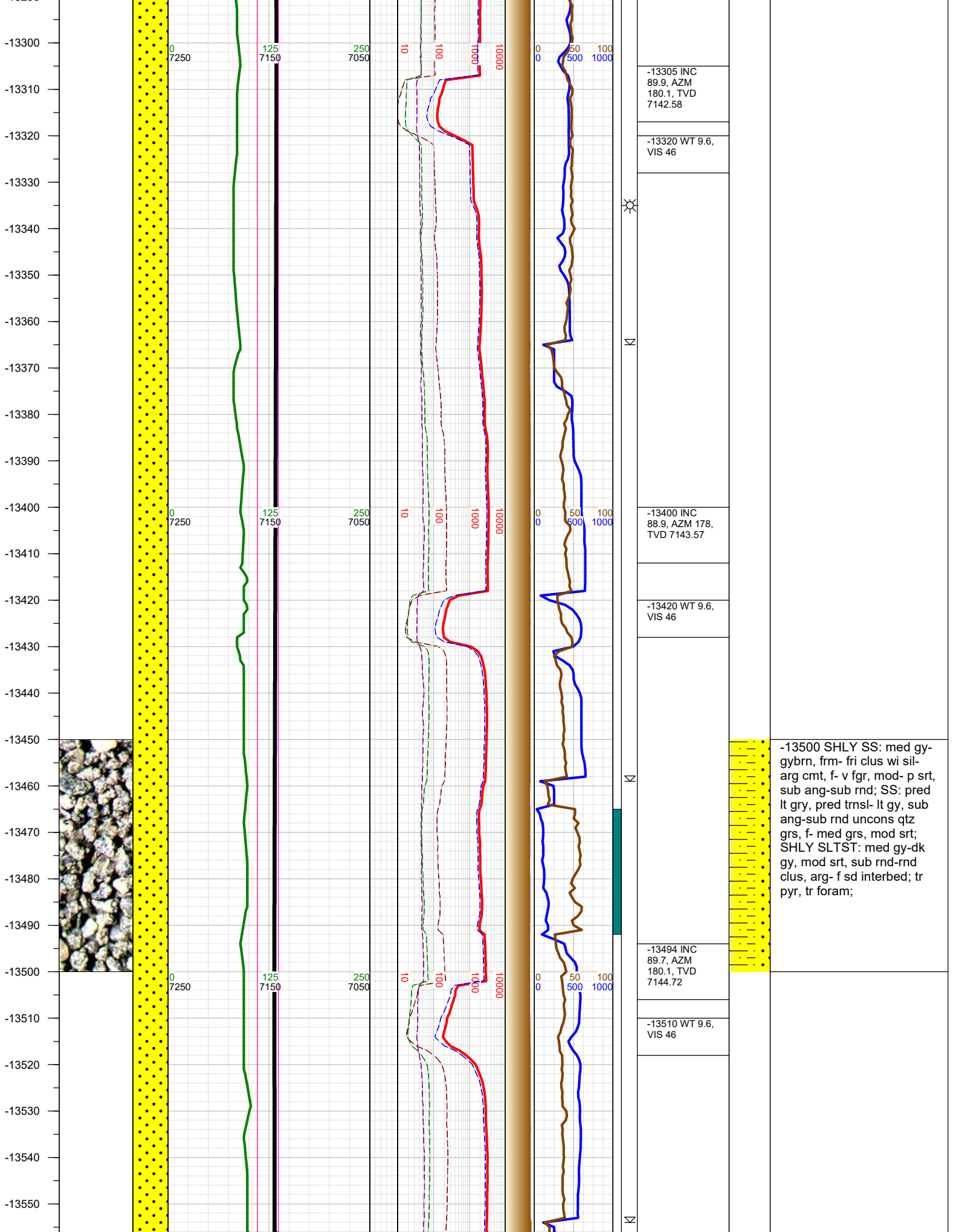


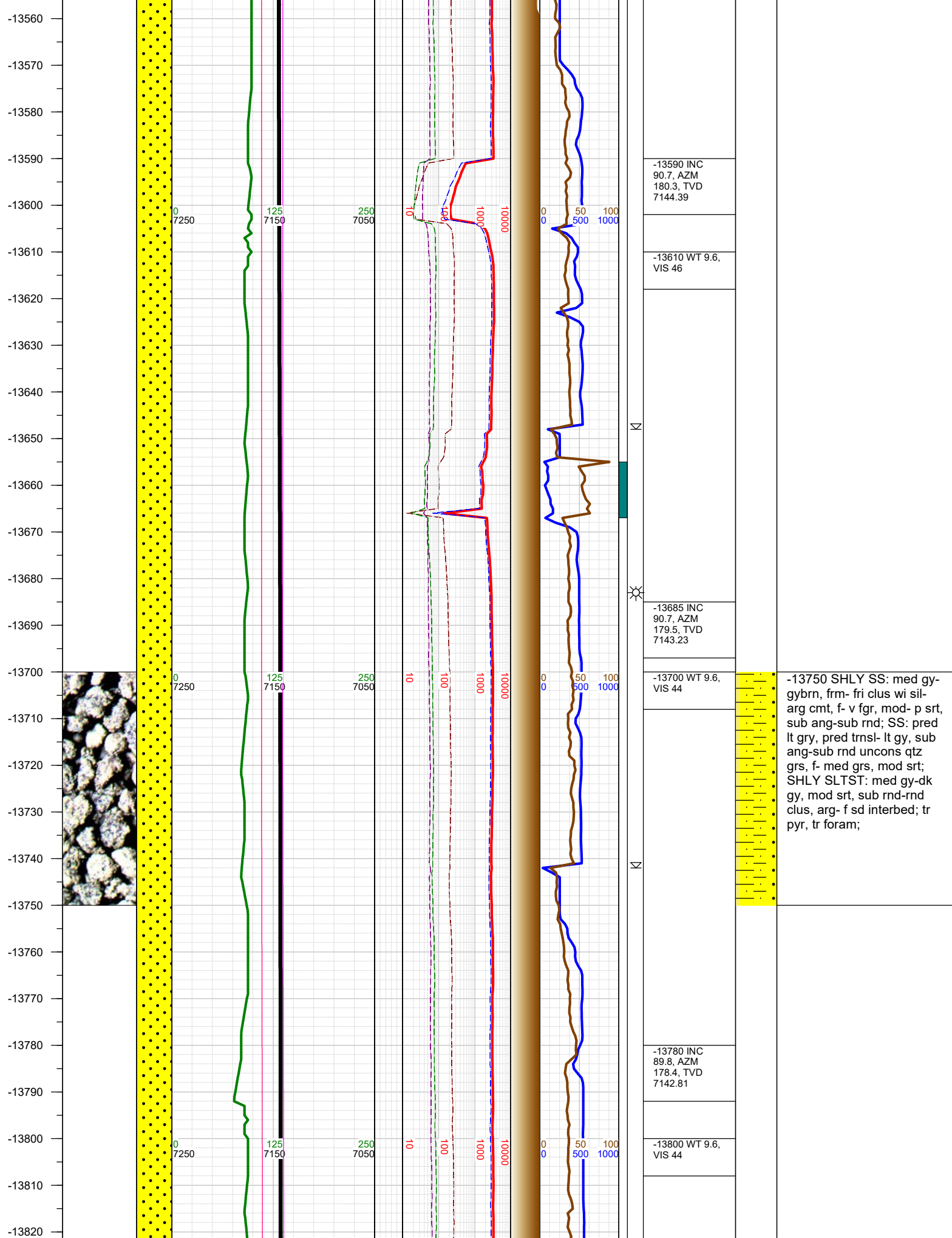


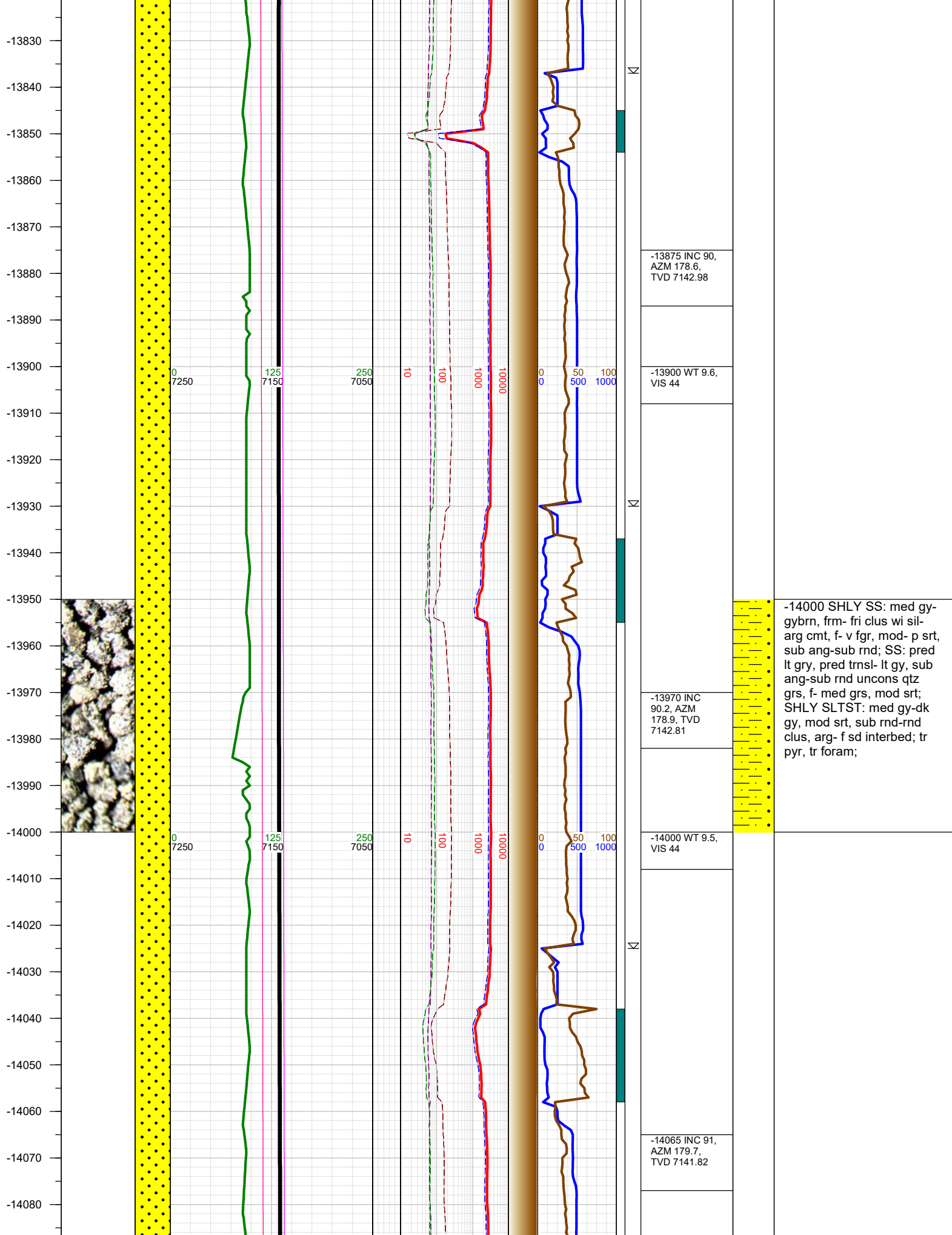


-13000 SS: pred lt gry, pred trns- lt gy, sub ang-sub rnd uncons qtz grs, f-med grs, mod srt; tr pyr; tr fos frags; tr forams; SHLY SS: med gy- gybrn, frm- fri clus wi sil-arg cmt, f- v fgr, mod- p srt, sub ang-sub rnd; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg; tr pyr; tr fos frags;



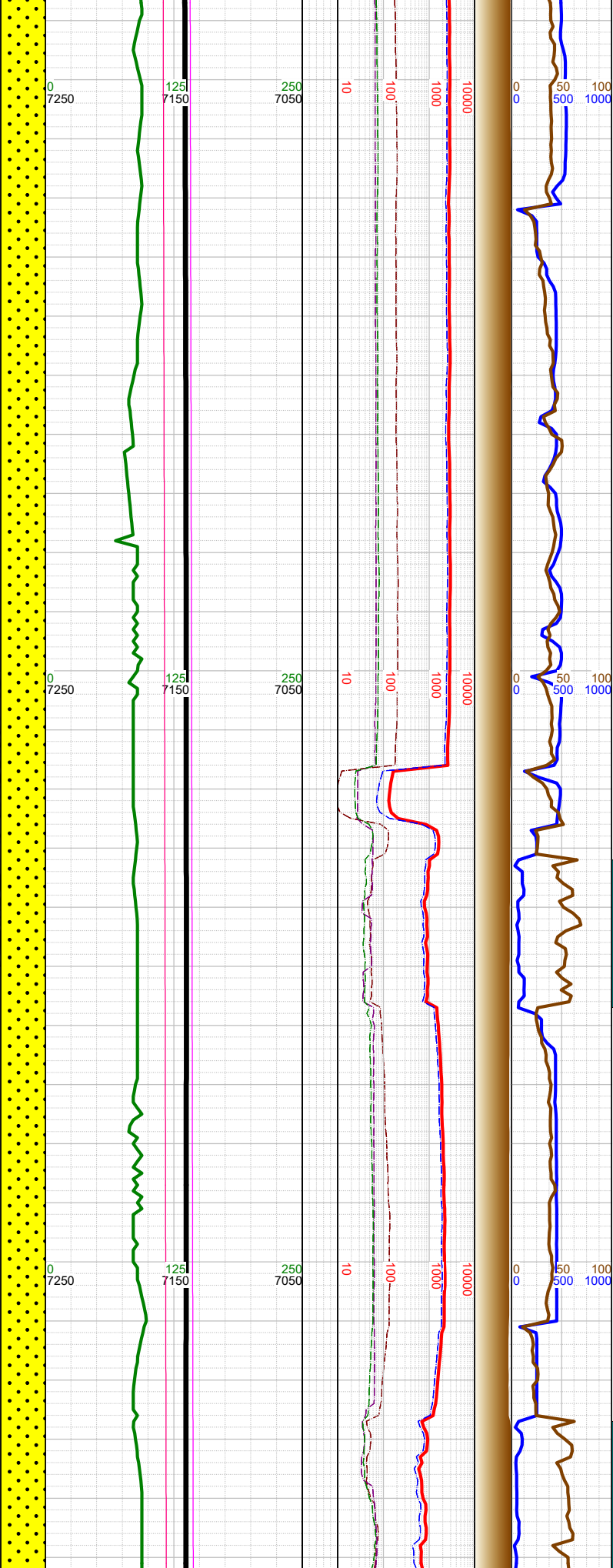






-14000 SHLY SS: med gy-gybrn, frm- fri clus wi sil-arg cmt, f- v fgr, mod- p srt, sub ang-sub rnd; SS: pred lt gry, pred trns- lt gy, sub ang-sub rnd uncon- qtz grs, f- med grs, mod srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg- f sd interbed; tr pyr, tr foram;

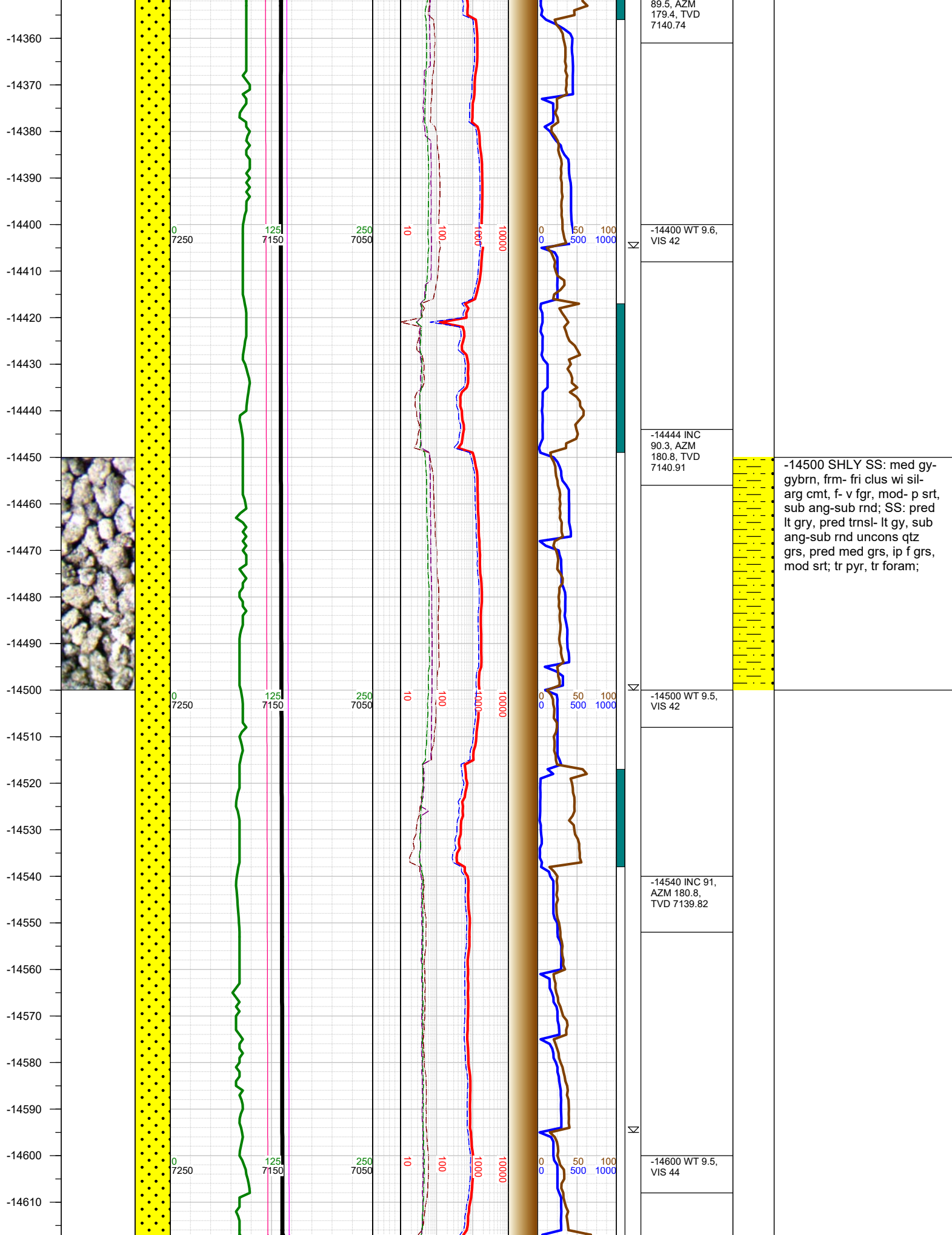
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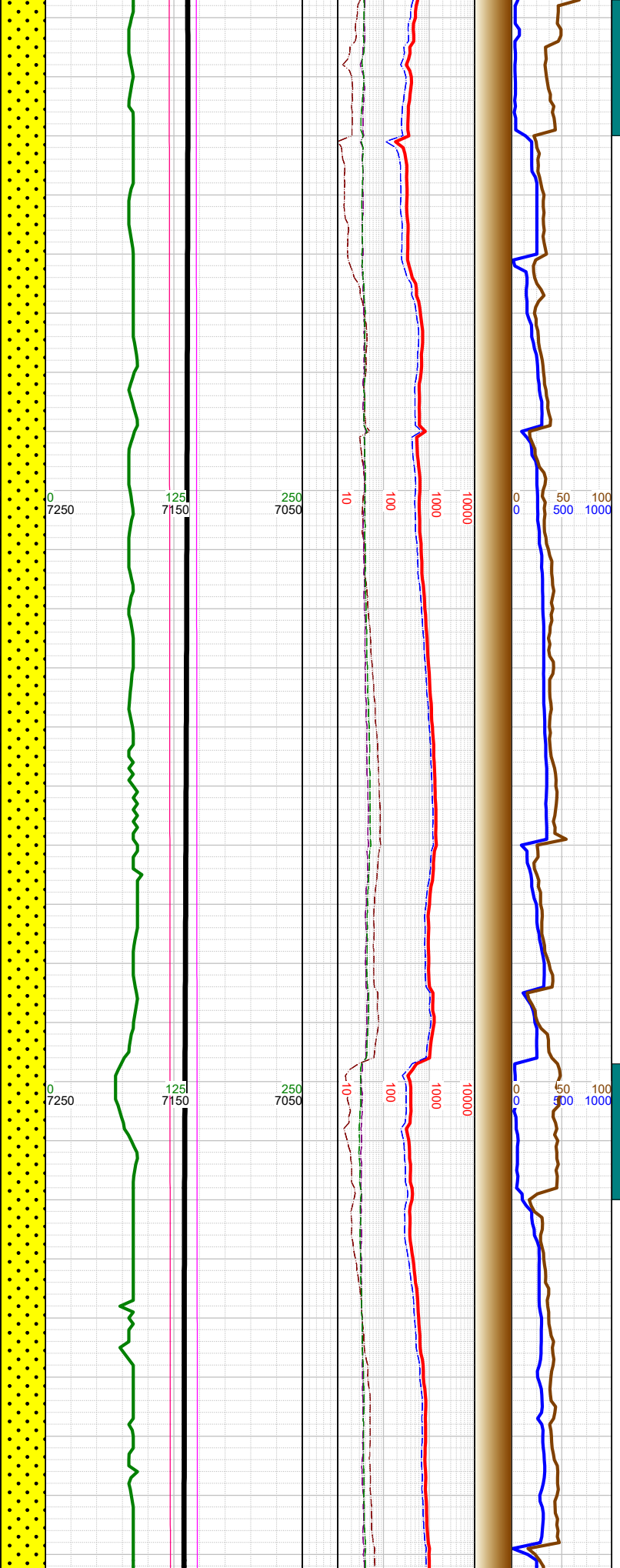
	-14100 WT 9.5, VIS 43
⌵	
	-14160 INC 90.4, AZM 179, TVD 7140.66
	-14200 WT 9.5, VIS 45
⌵	
☀	-14254 INC 90, AZM 179, TVD 7140.33
⌵	-14300 WT 9.6, VIS 42
	-14349 INC



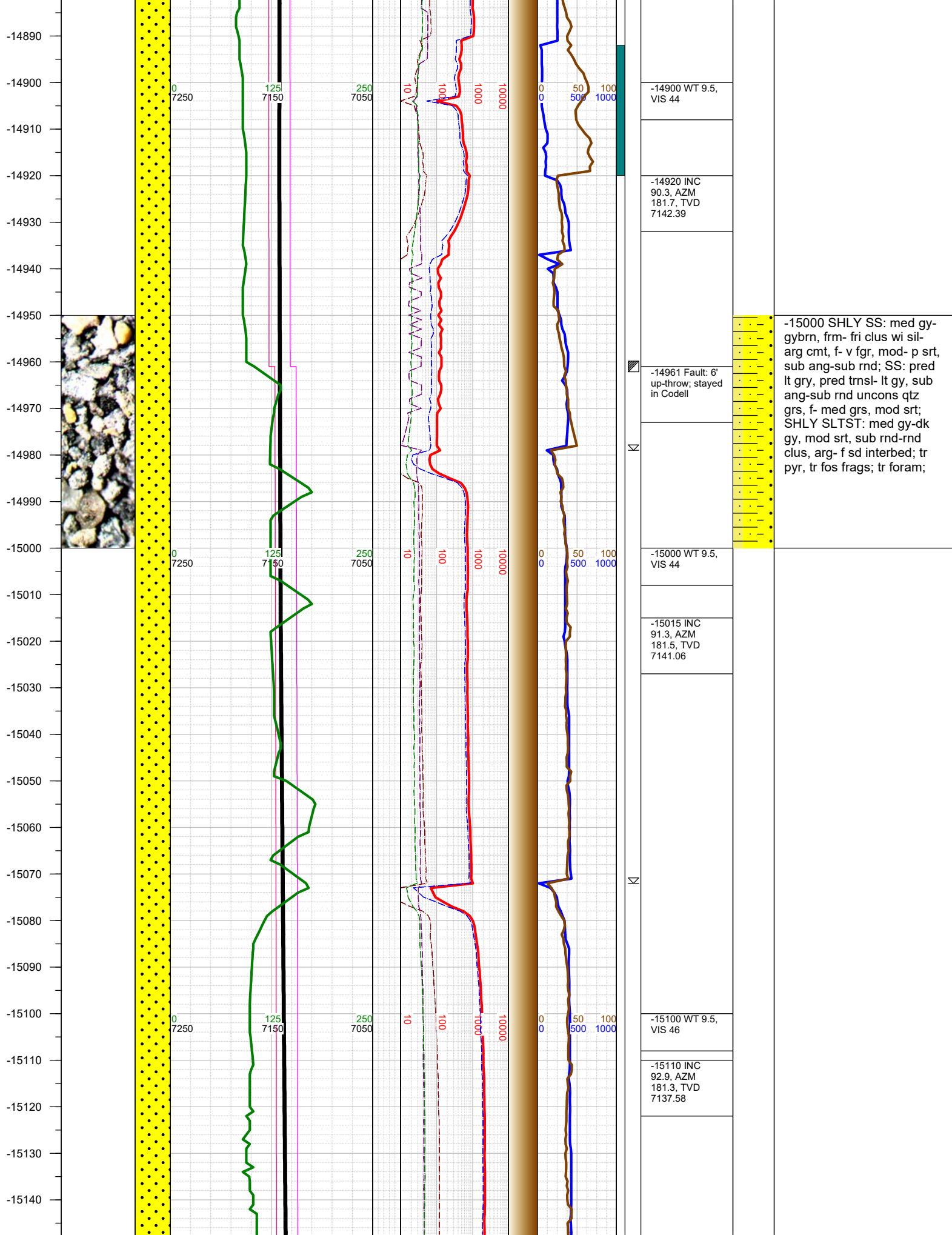
-14250 SHLY SS: med gy-
gybrn, frm- fri clus wi sil-
arg cmt, f- v fgr, mod- p srt,
sub ang-sub rnd; SS: pred
lt gry, pred trnsl- lt gy, sub
ang-sub rnd uncons qtz
grs, f- med grs, mod srt; tr
pyr, tr foram;

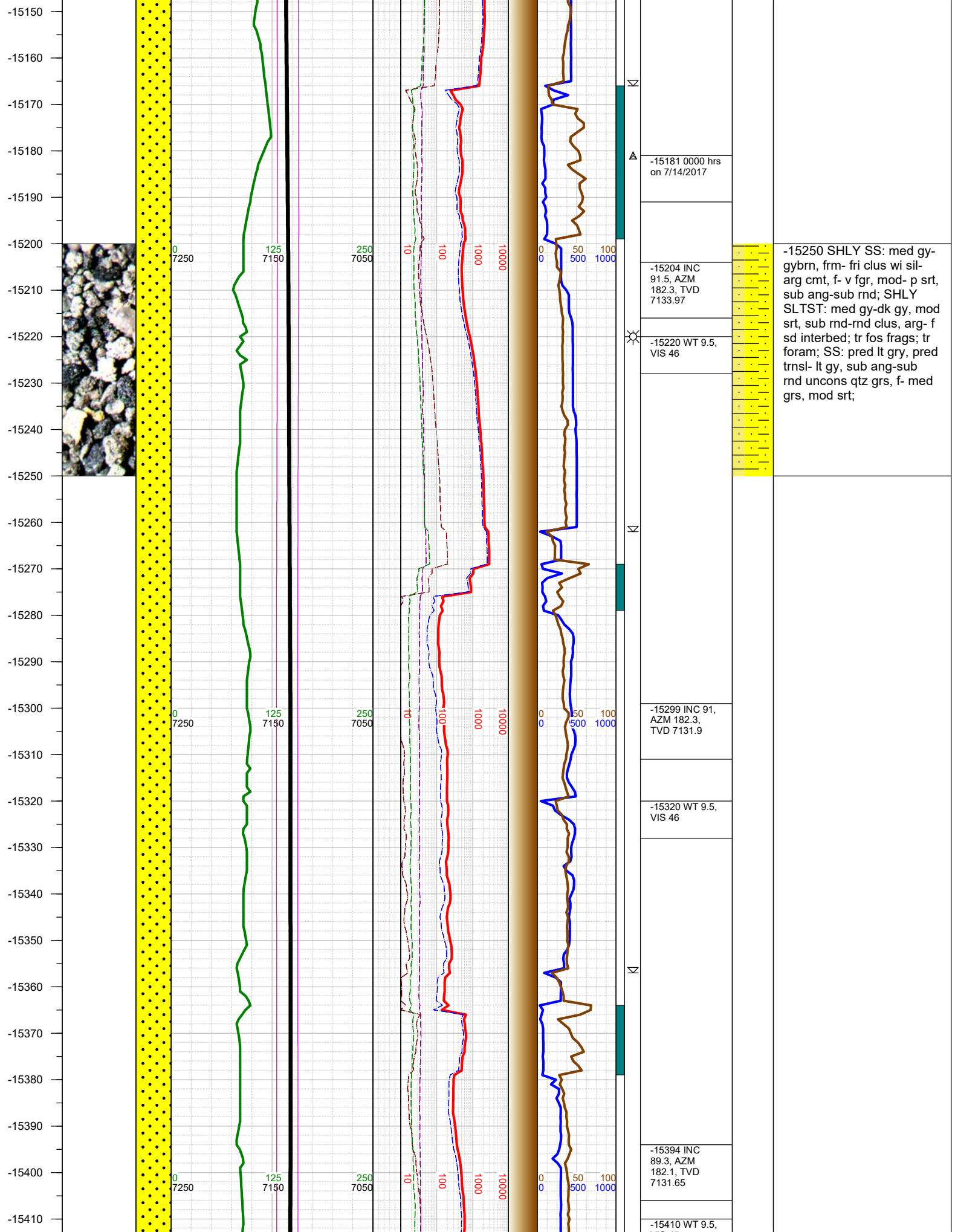


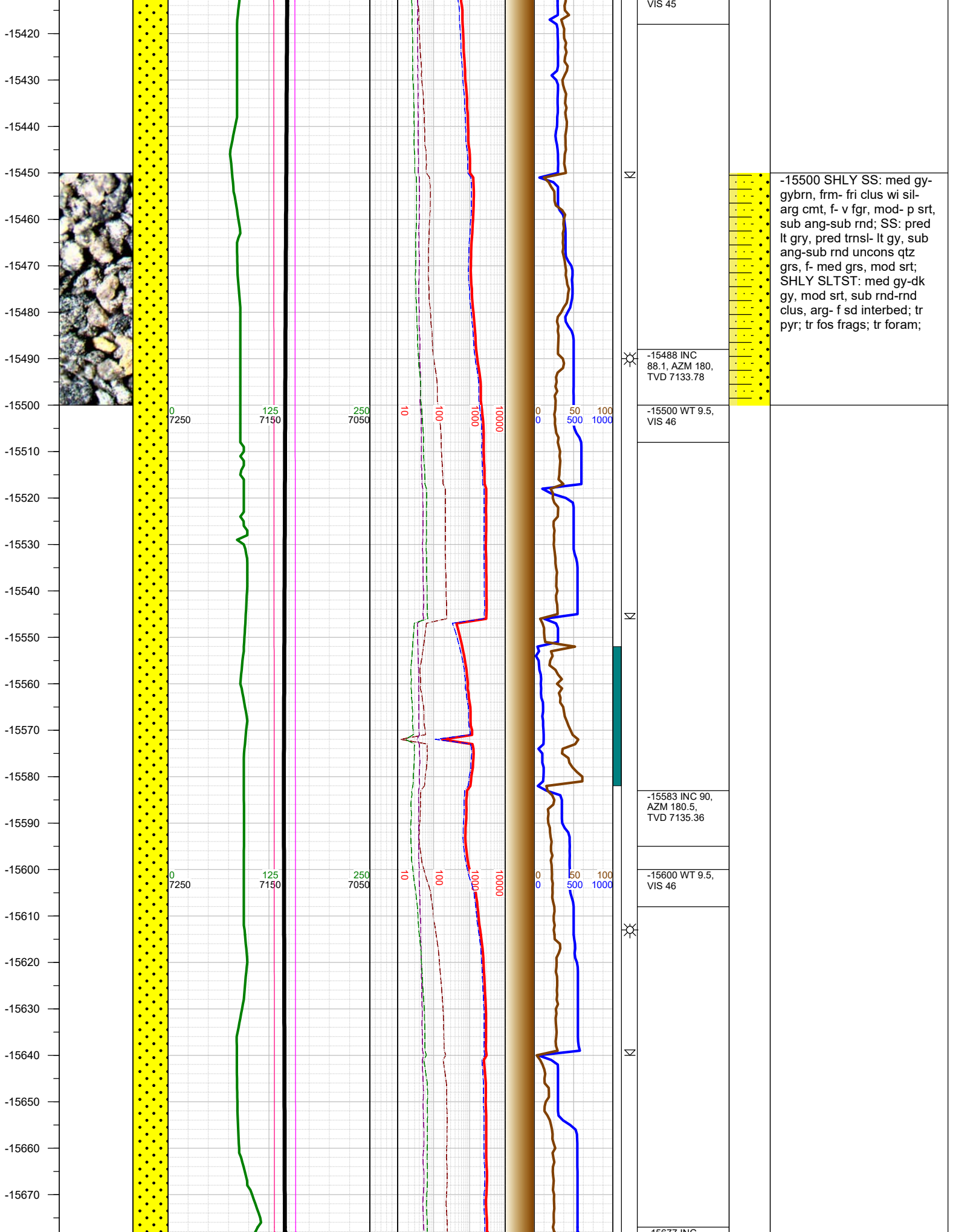
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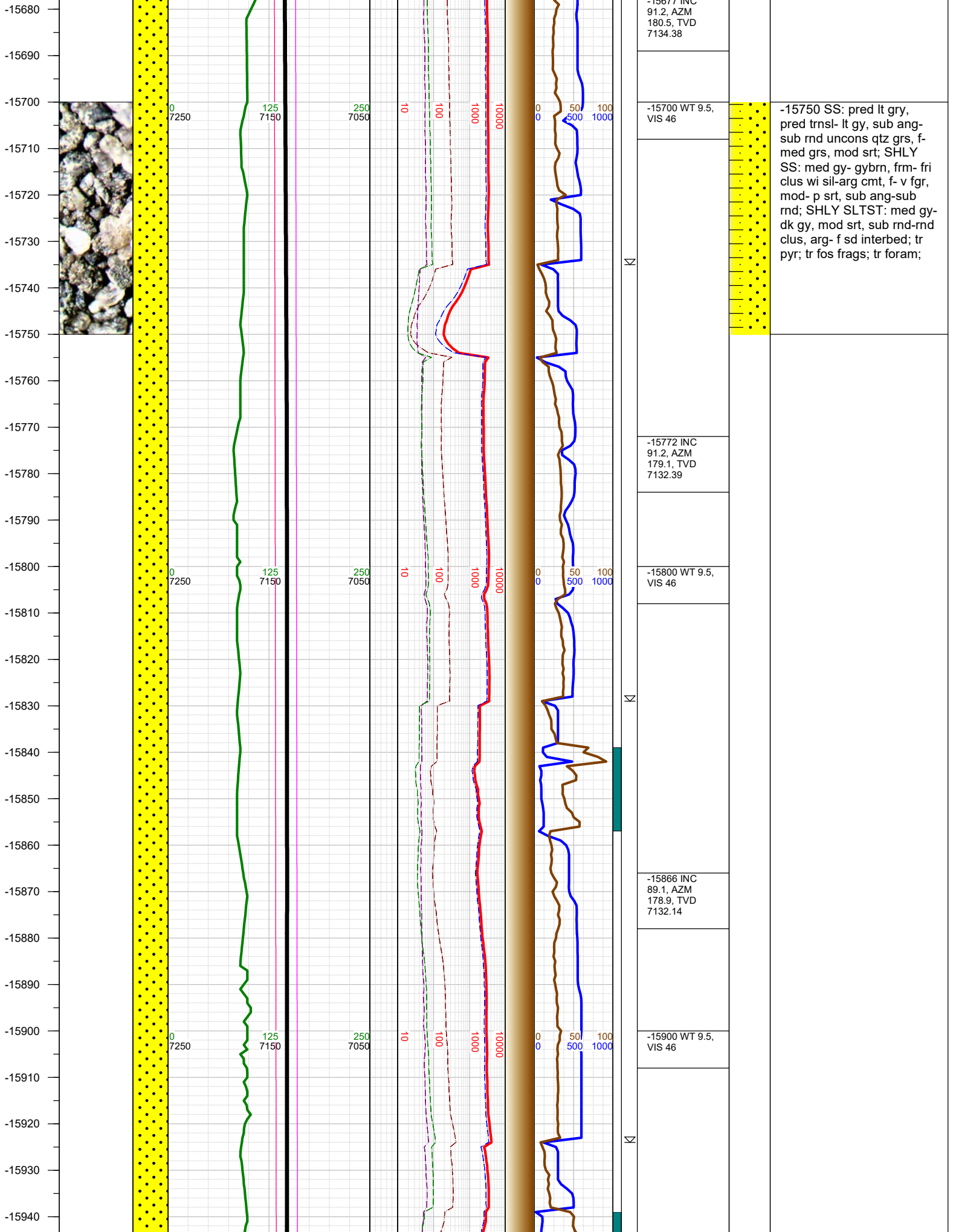


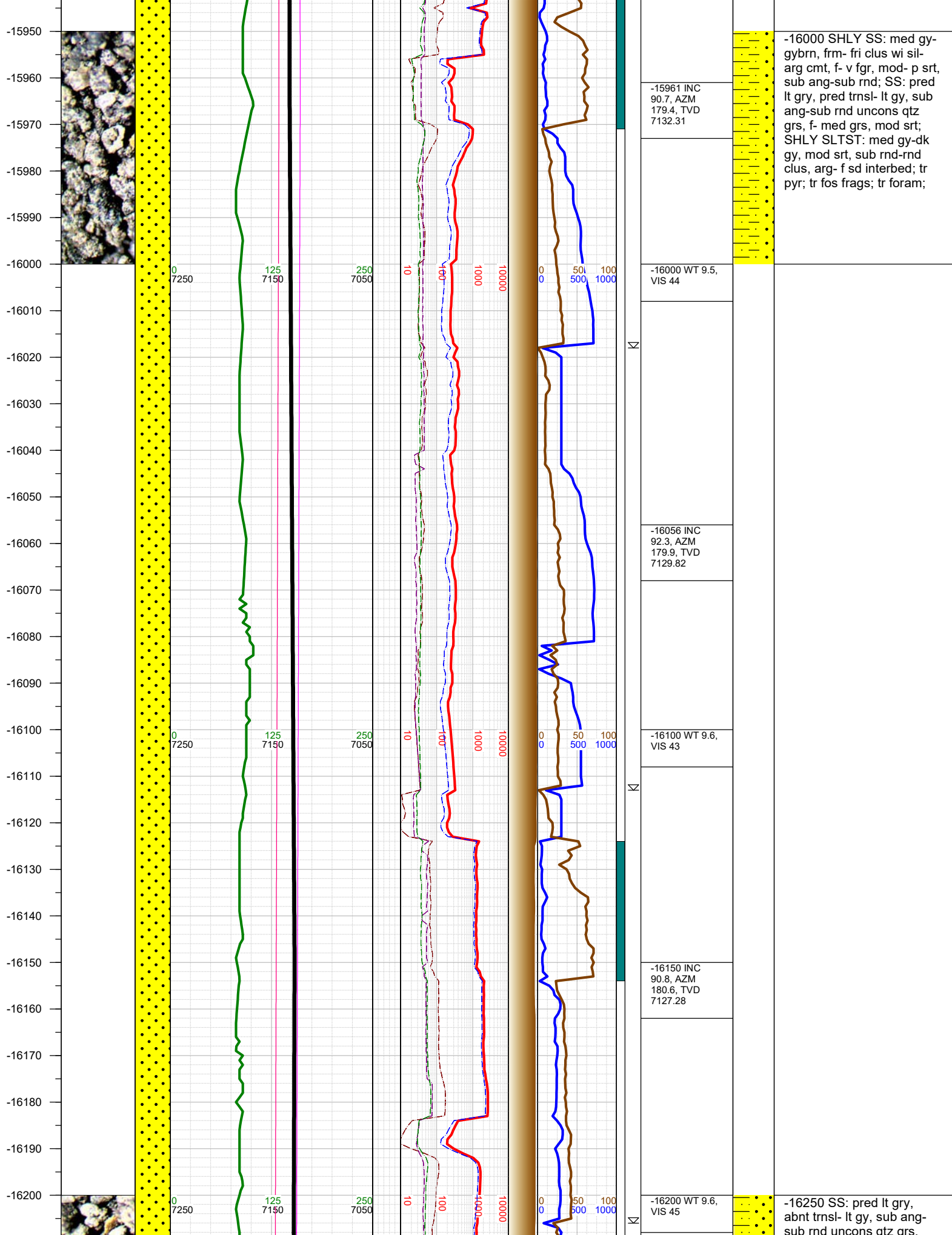
-14635 INC 89.8, AZM 181.5, TVD 7139.16		
-14700 WT 9.5, VIS 42		-14750 SHLY SS: med gy- gybrn, frm- fri clus w/ sil- arg cmt, f- v fgr, mod- p srt, sub ang-sub rnd; SS: pred lt gry, pred trns- lt gy, sub ang-sub rnd unconq qtz grs, f- med grs, mod srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg- f sd interbed; tr pyr, tr fos frags; tr foram;
-14730 INC 88.9, AZM 181.3, TVD 7140.23		
-14800 WT 9.5, VIS 43		
-14825 INC 89.1, AZM 181.3, TVD 7141.89		

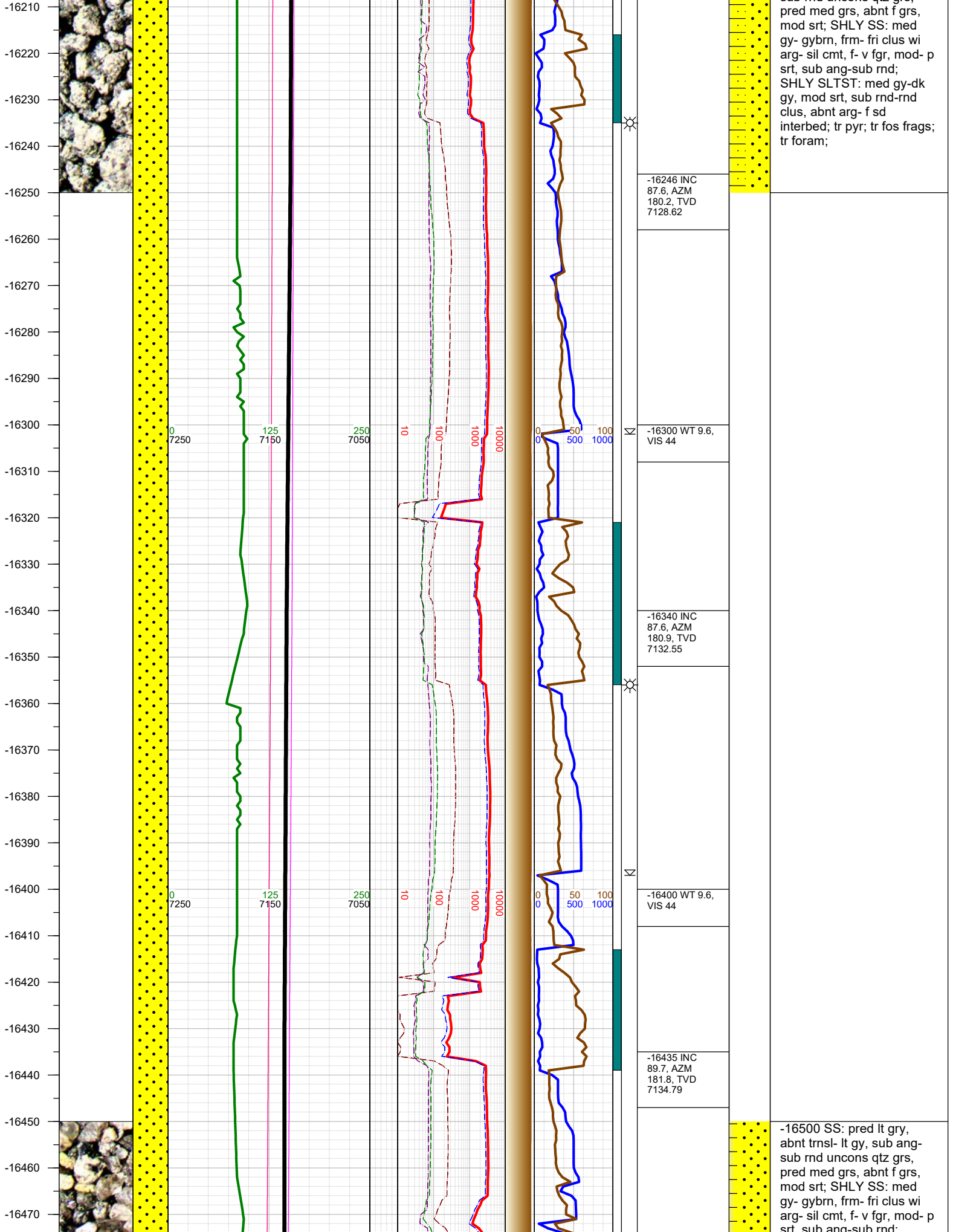












pred med grs, abnt f grs, mod srt; SHLY SS: med gy- gybrn, frm- fri clus wi arg- sil cmt, f- v fgr, mod- p srt, sub ang-sub rnd; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, abnt arg- f sd interbed; tr pyr; tr fos frags; tr foram;

-16246 INC
87.6, AZM
180.2, TVD
7128.62

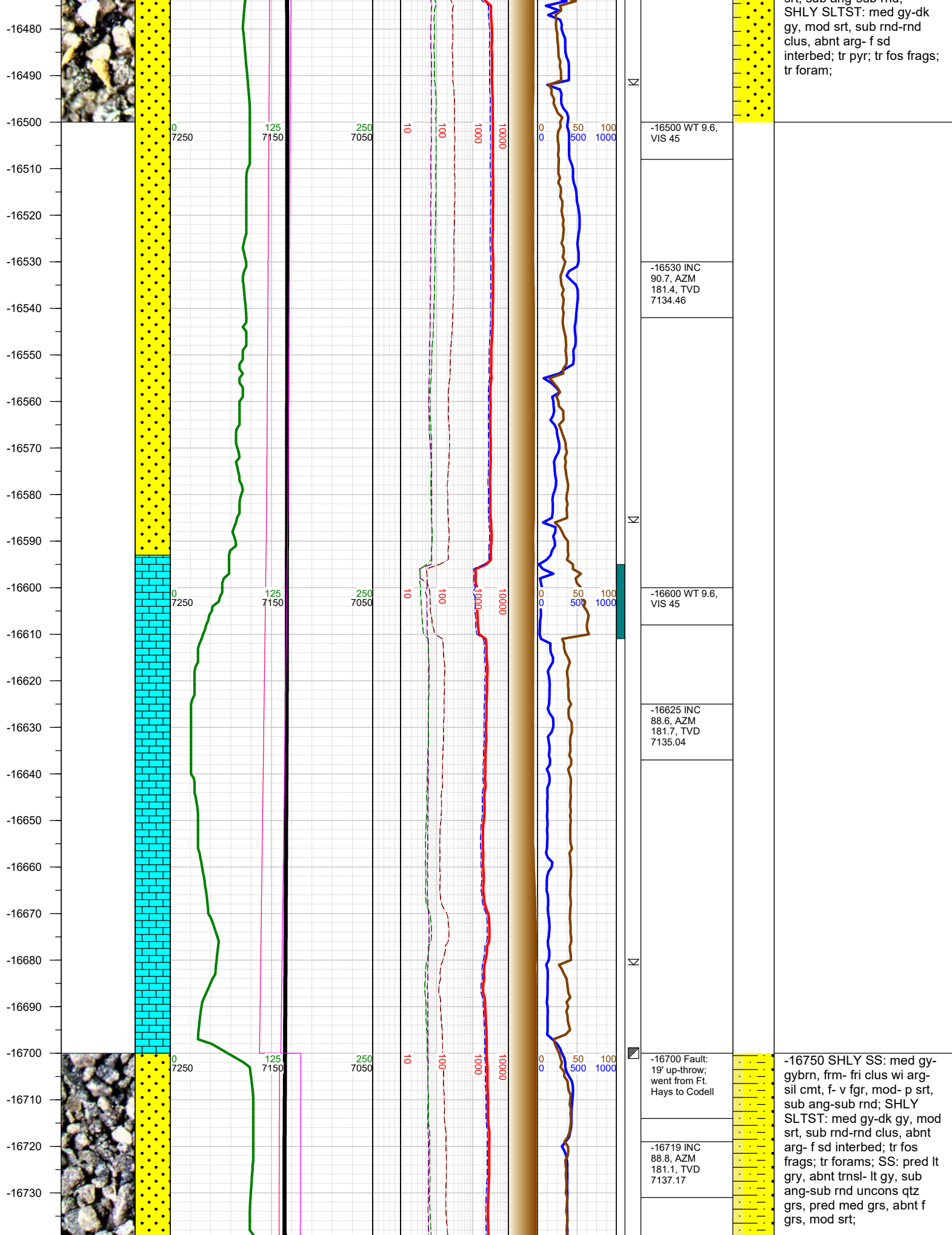
-16300 WT 9.6,
VIS 44

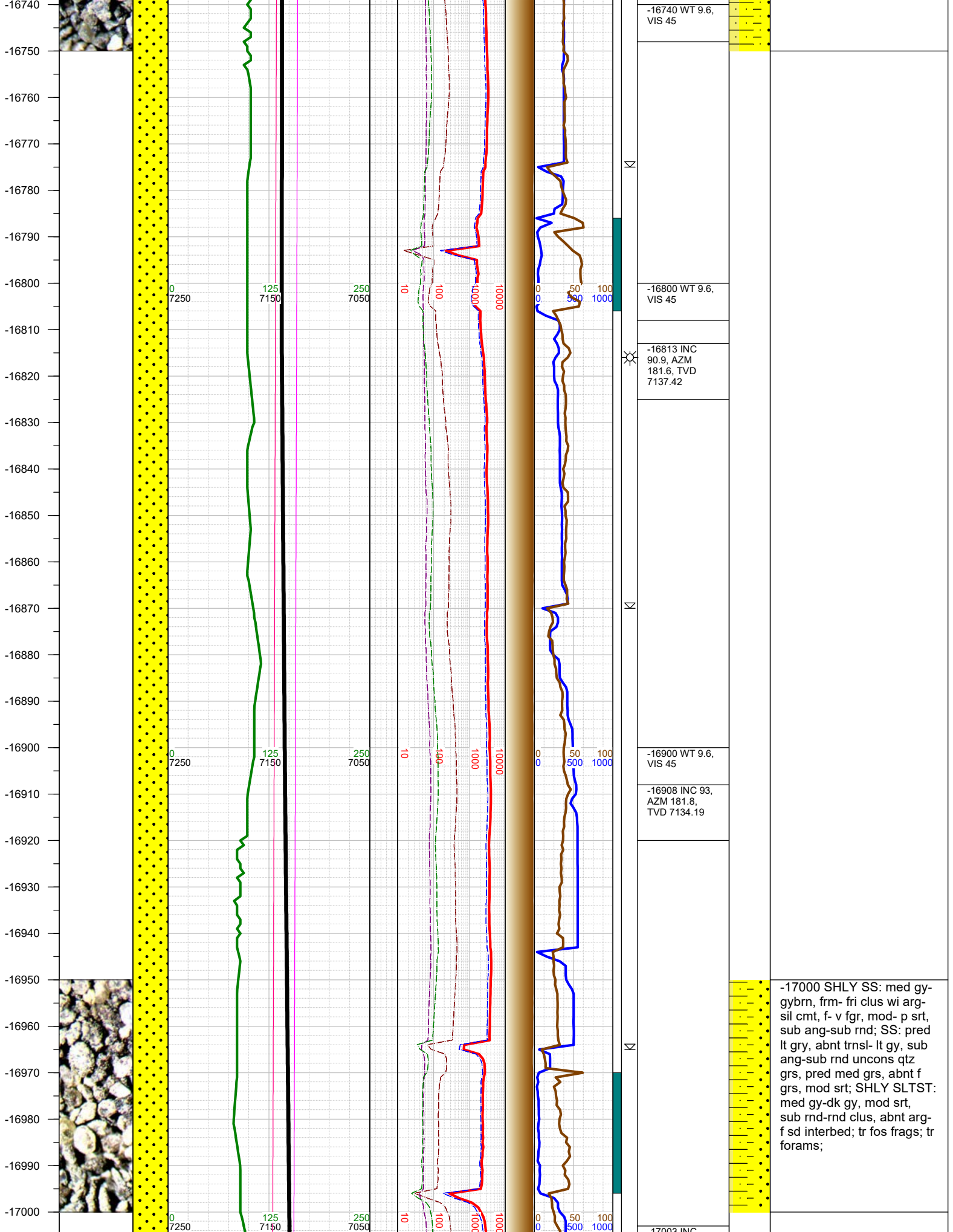
-16340 INC
87.6, AZM
180.9, TVD
7132.55

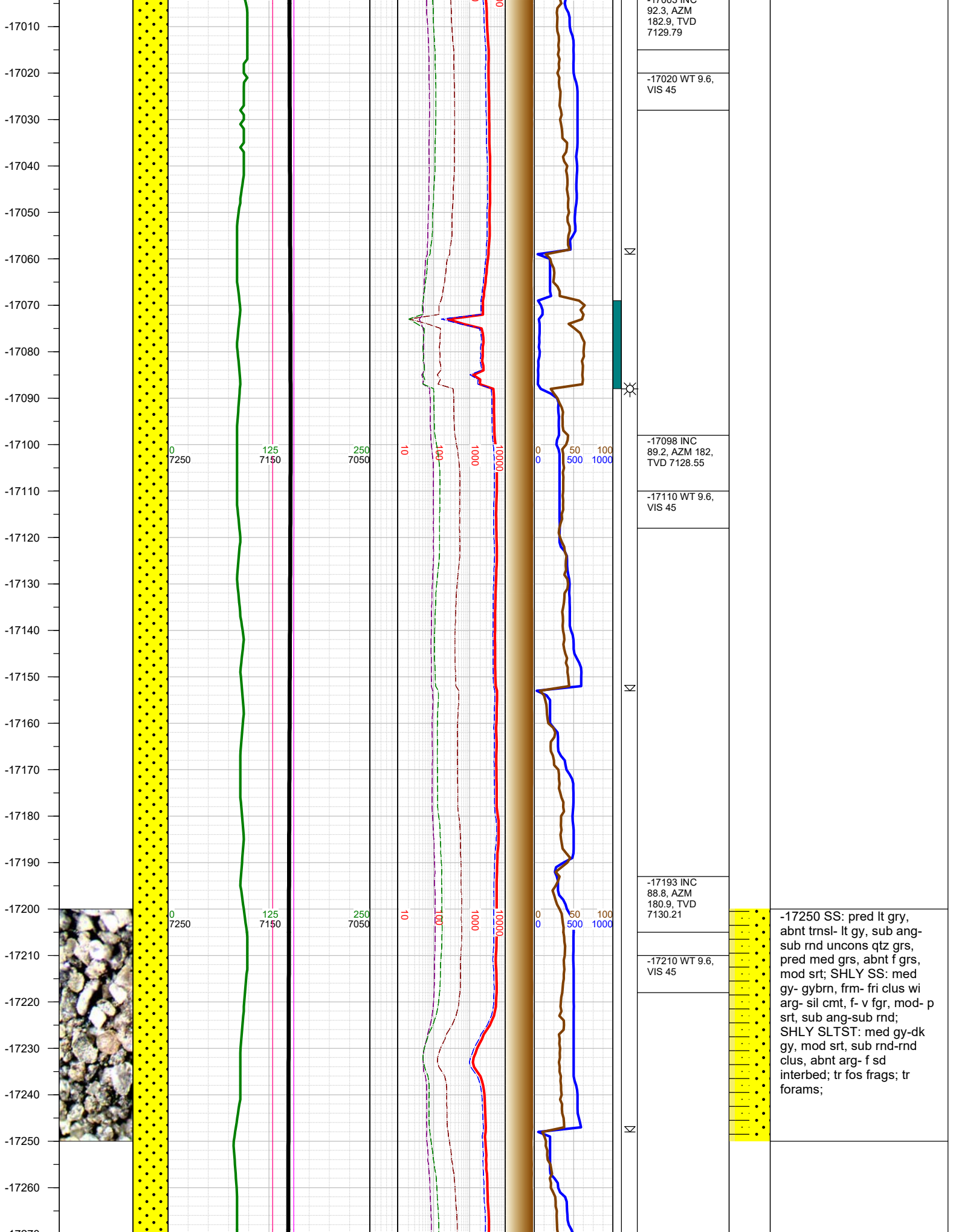
-16400 WT 9.6,
VIS 44

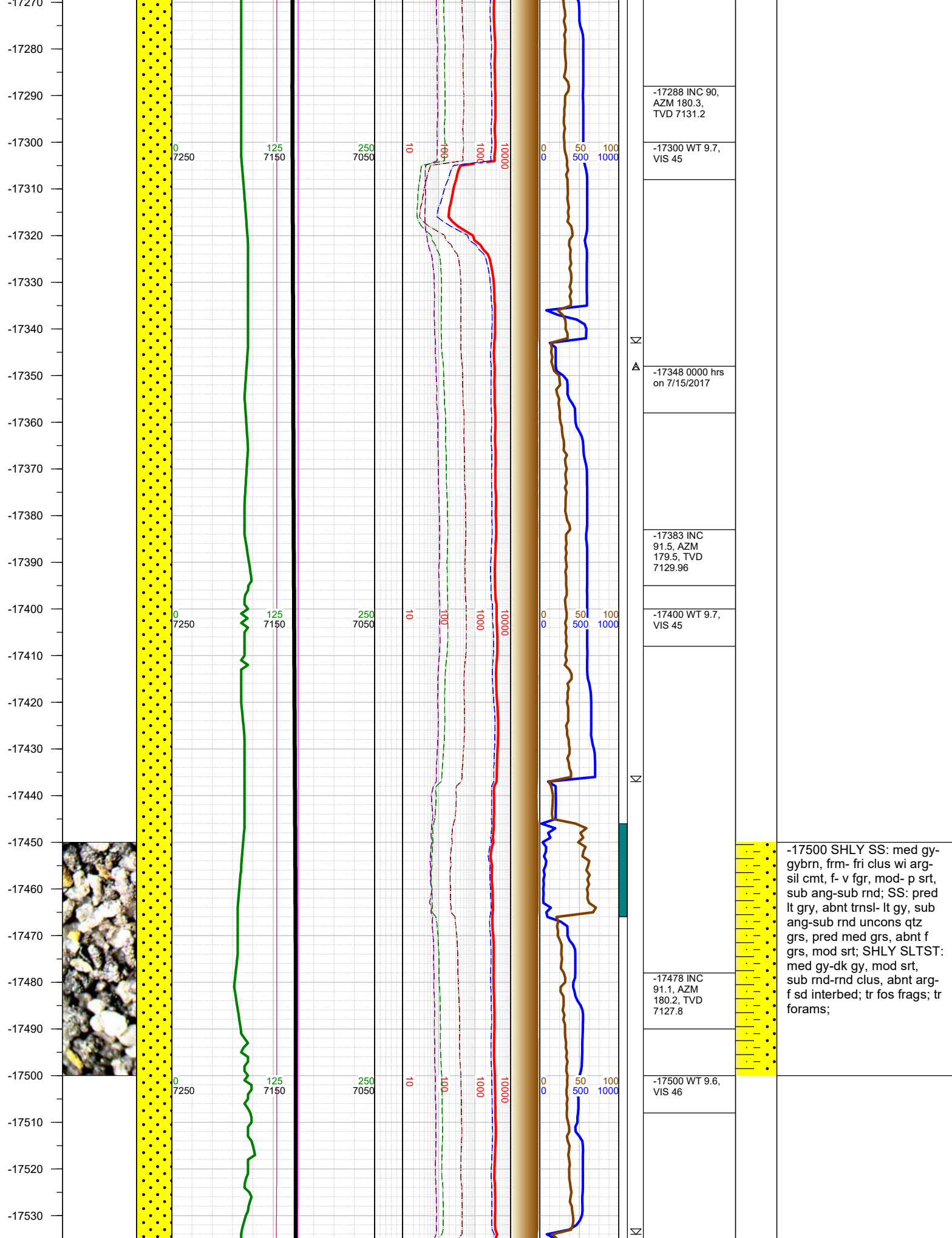
-16435 INC
89.7, AZM
181.8, TVD
7134.79

-16500 SS: pred lt gry, abnt trns- lt gy, sub ang-sub rnd unconsl qtz grs, pred med grs, abnt f grs, mod srt; SHLY SS: med gy- gybrn, frm- fri clus wi arg- sil cmt, f- v fgr, mod- p srt, sub ang-sub rnd;

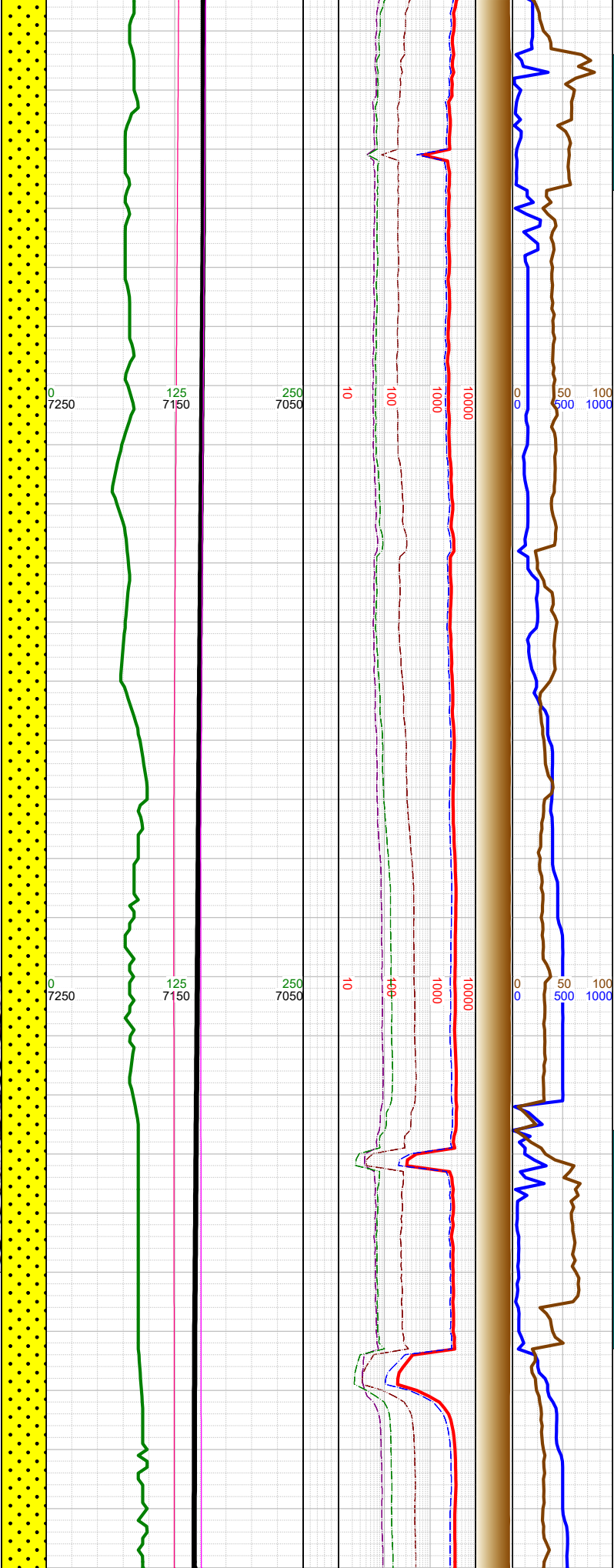
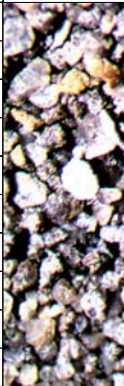




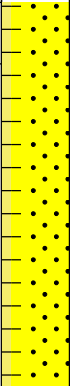




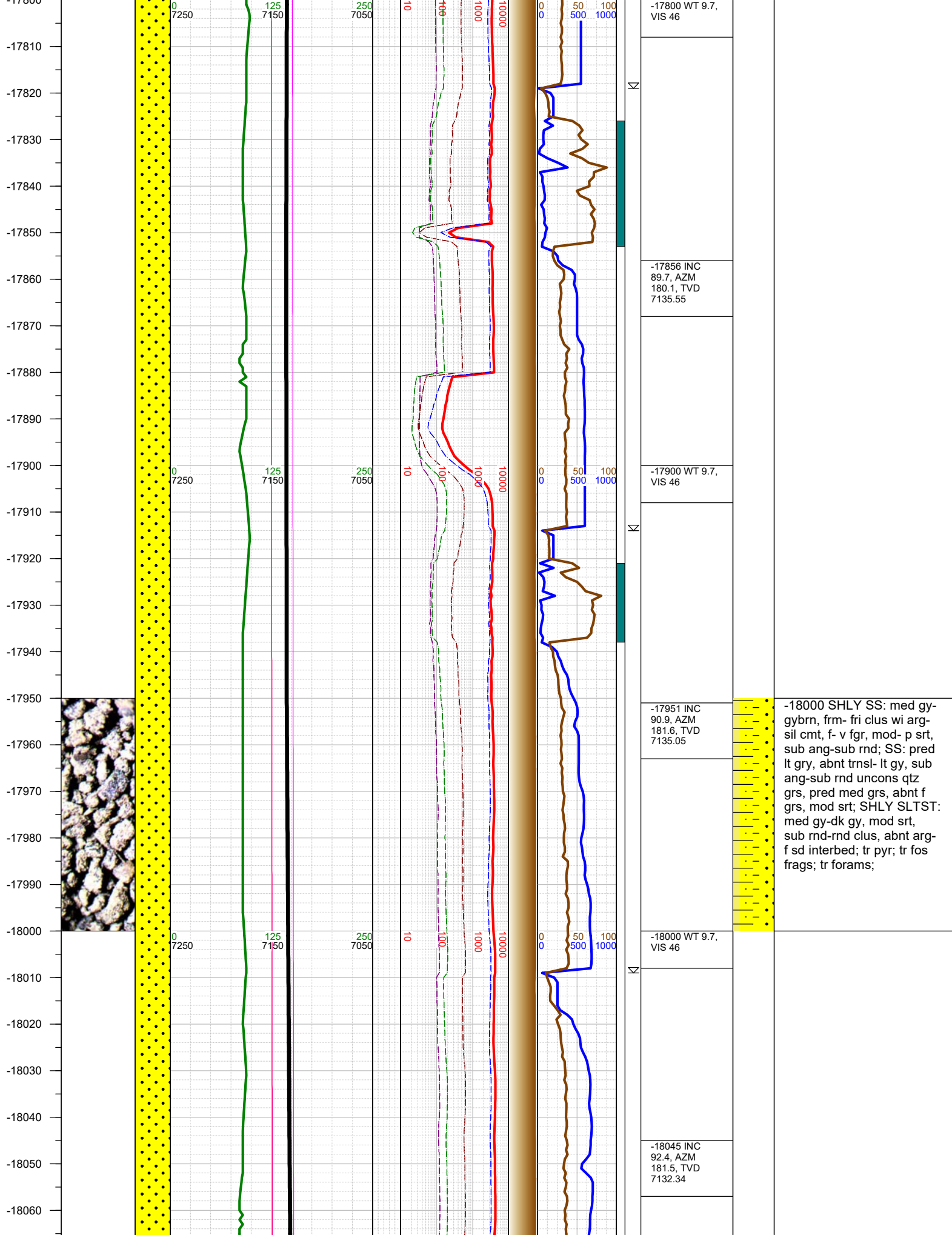
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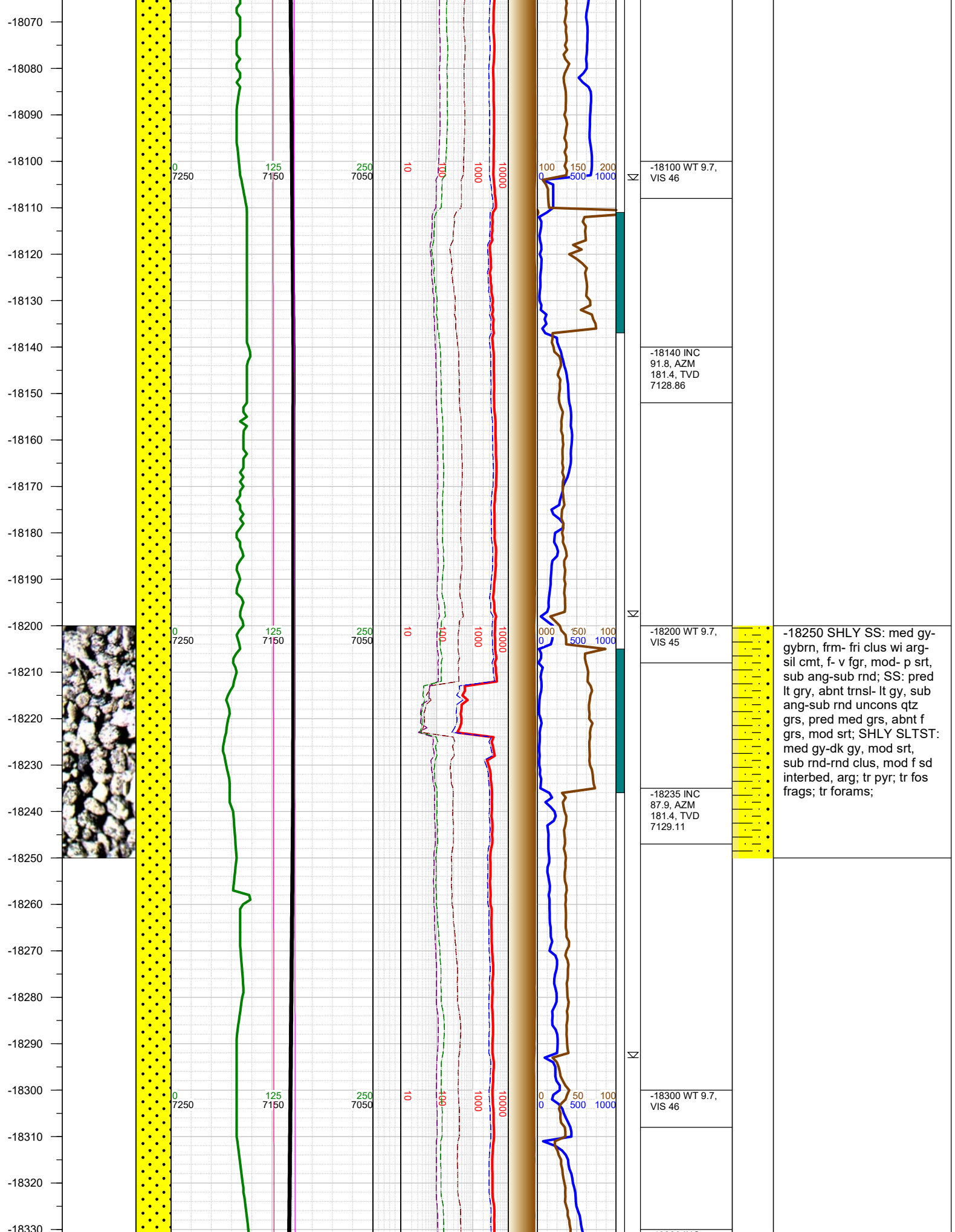


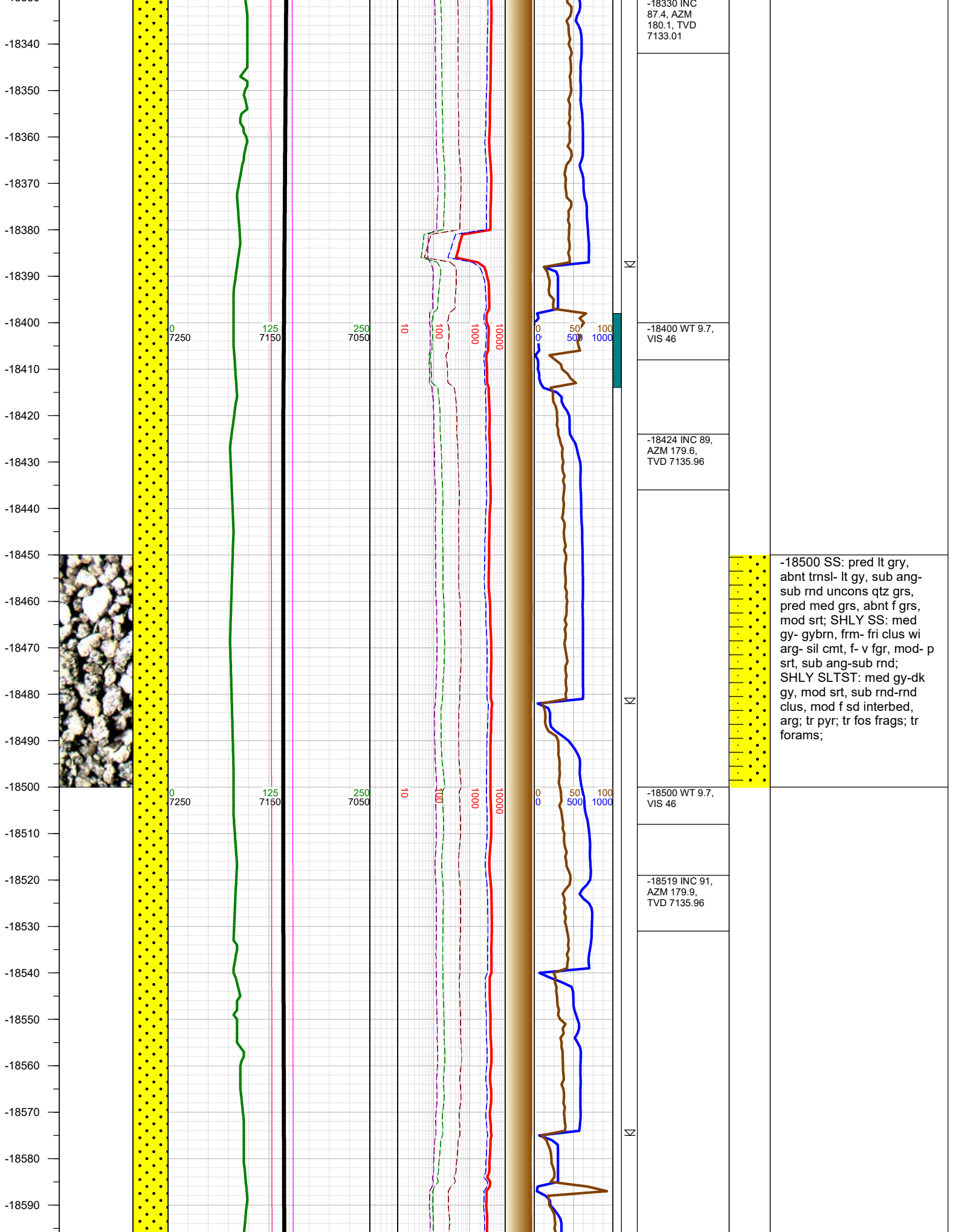
	-17573 INC 88.8, AZM 179.8, TVD 7127.89
	-17600 WT 9.6, VIS 46
	-17667 INC 87, AZM 177.9, TVD 7131.33
	-17700 WT 9.6, VIS 46
	-17762 INC 89.1, AZM 178.3, TVD 7134.56



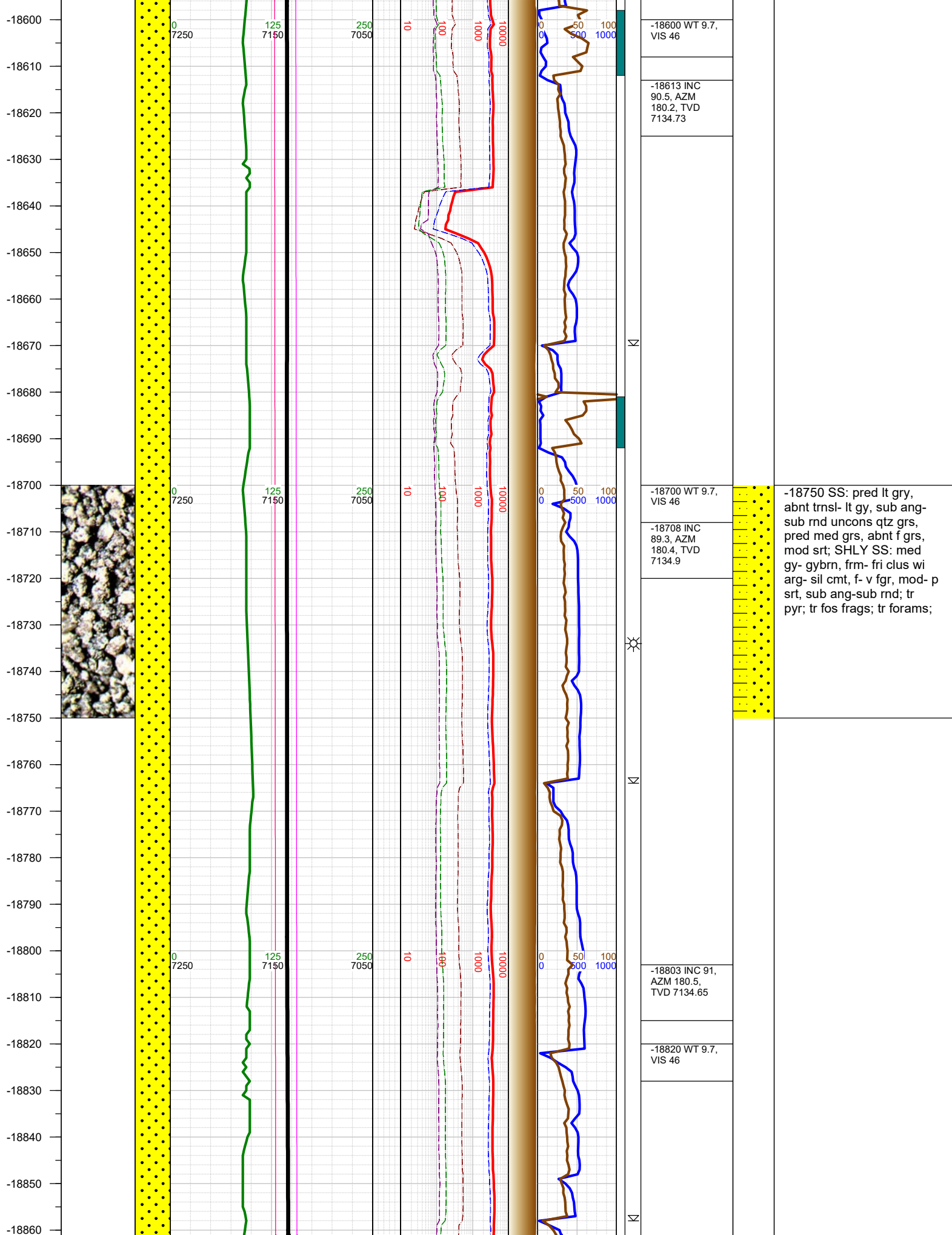
-17750 SS: pred lt gry,
abnt trns- lt gy, sub ang-
sub rnd unconsl qtz grs,
pred med grs, abnt f grs,
mod srt; SHLY SS: med
gy- gybrn, frm- fri clus wi
arg- sil cmt, f- v fgr, mod- p
srt, sub ang-sub rnd;
SHLY SLTST: med gy-dk
gy, mod srt, sub rnd-rnd
clus, abnt arg- f sd
interbed; tr pyr; tr fos frags;
tr forams;



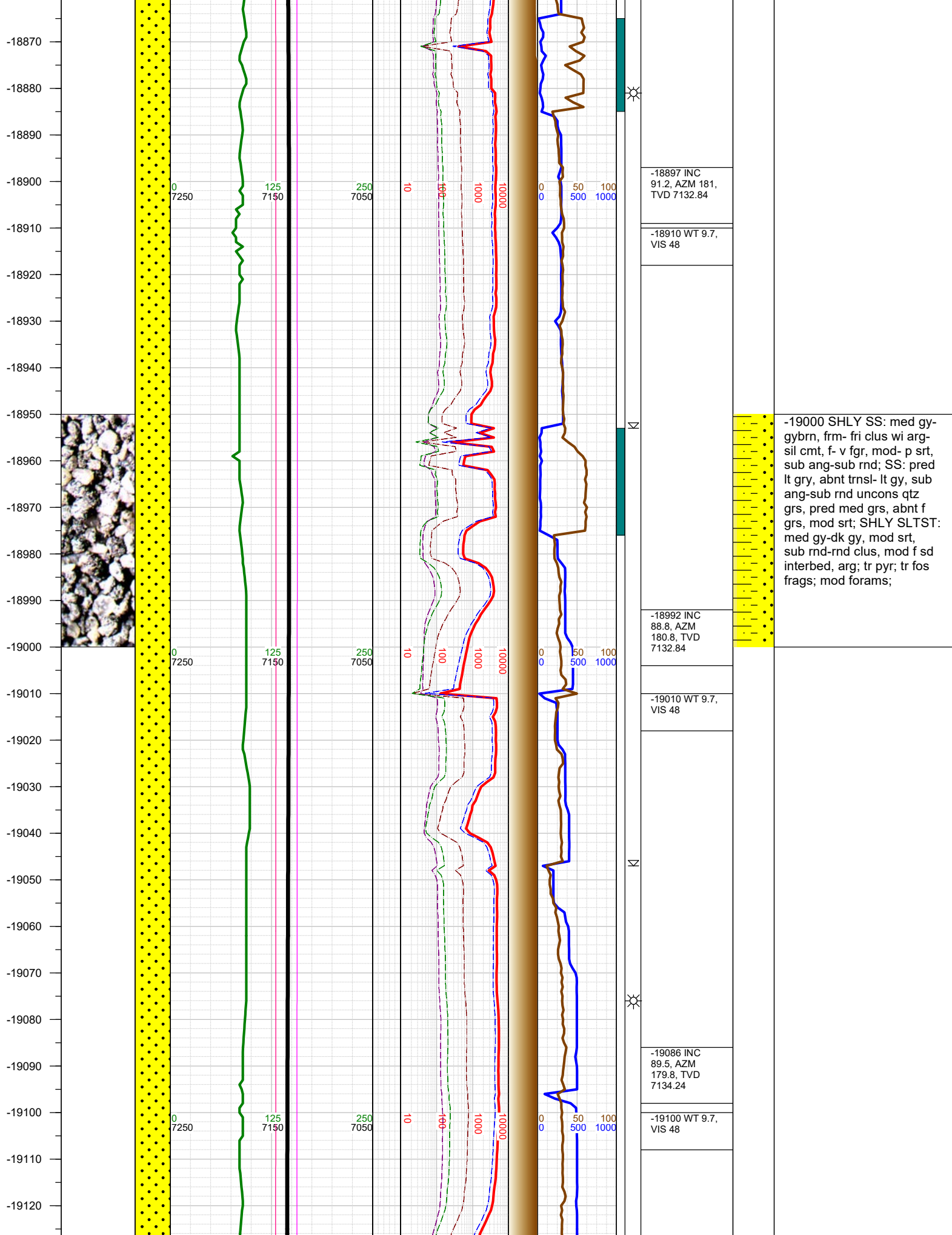


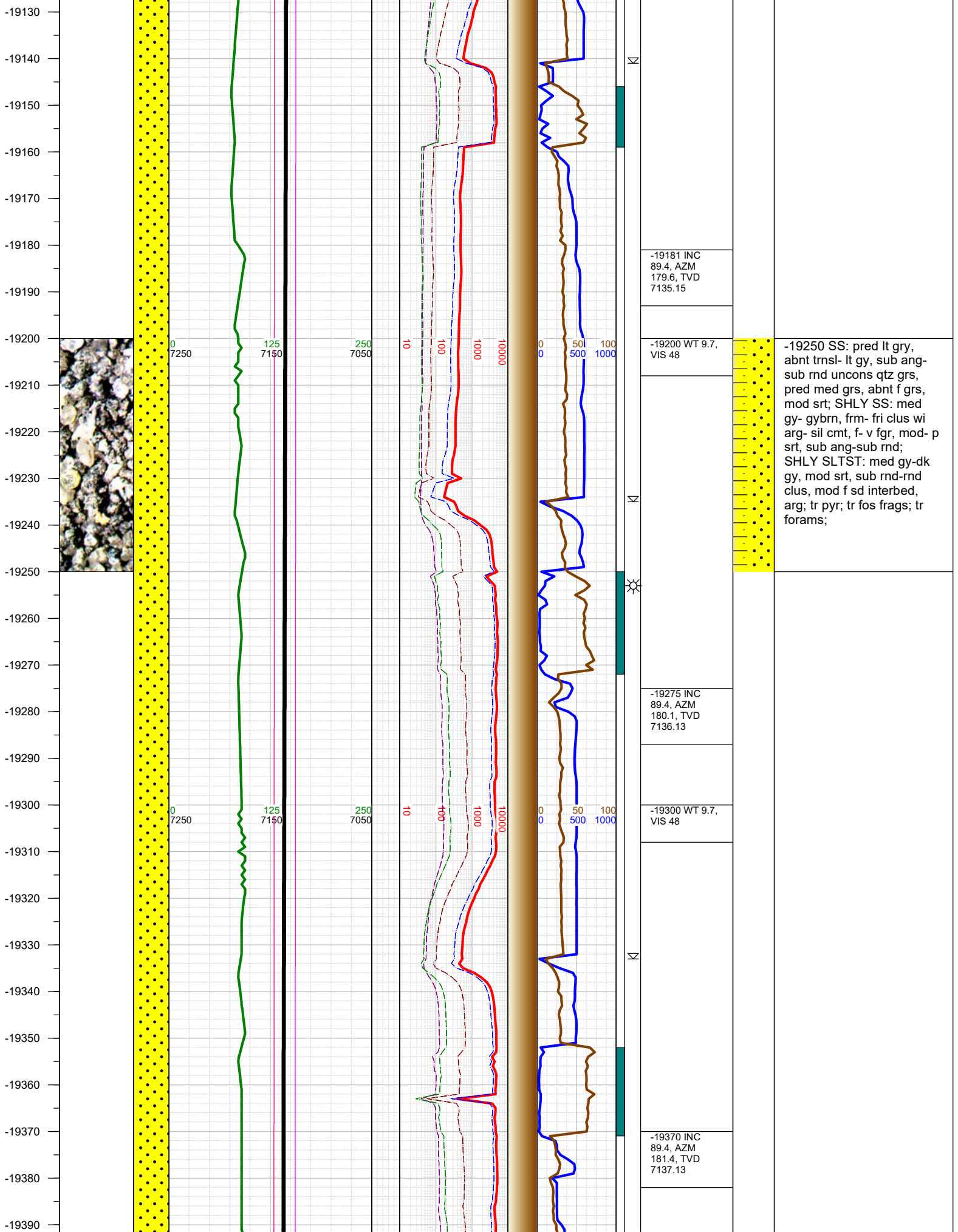


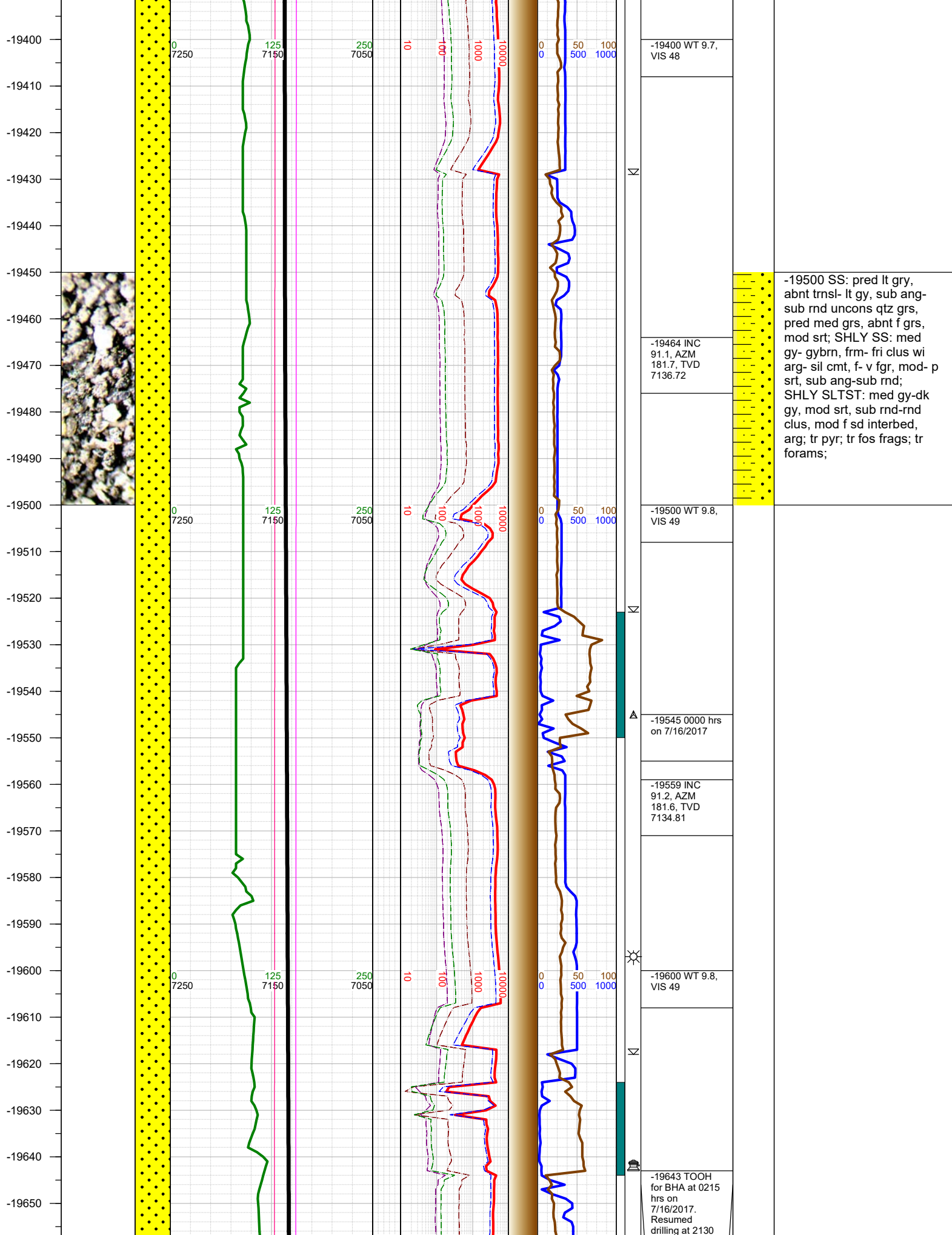
-18500 SS: pred lt gry, abnt trns- lt gy, sub ang-sub rnd unconsl qtz grs, pred med grs, abnt f grs, mod srt; SHLY SS: med gy- gybrn, frm- fri clus wi arg- sil cmt, f- v fgr, mod- p srt, sub ang-sub rnd; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, mod f sd interbed, arg; tr pyr; tr fos frags; tr forams;



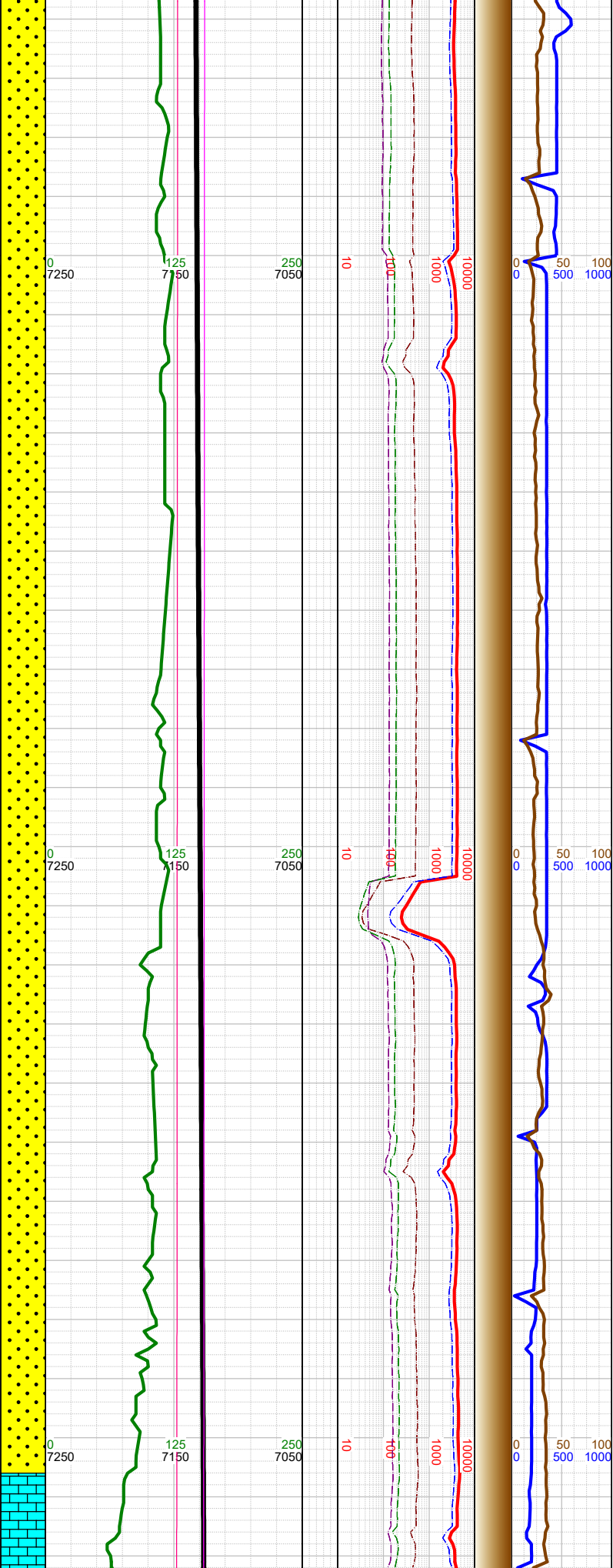
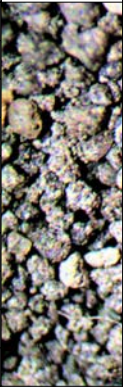
-18750 SS: pred lt gry, abnt trns- lt gy, sub ang-sub rnd unconqz grs, pred med grs, abnt f grs, mod srt; SHLY SS: med gy- gybrn, frm- fri clus wi arg- sil cmt, f- v fgr, mod- p srt, sub ang-sub rnd; tr pyr; tr fos frags; tr forams;



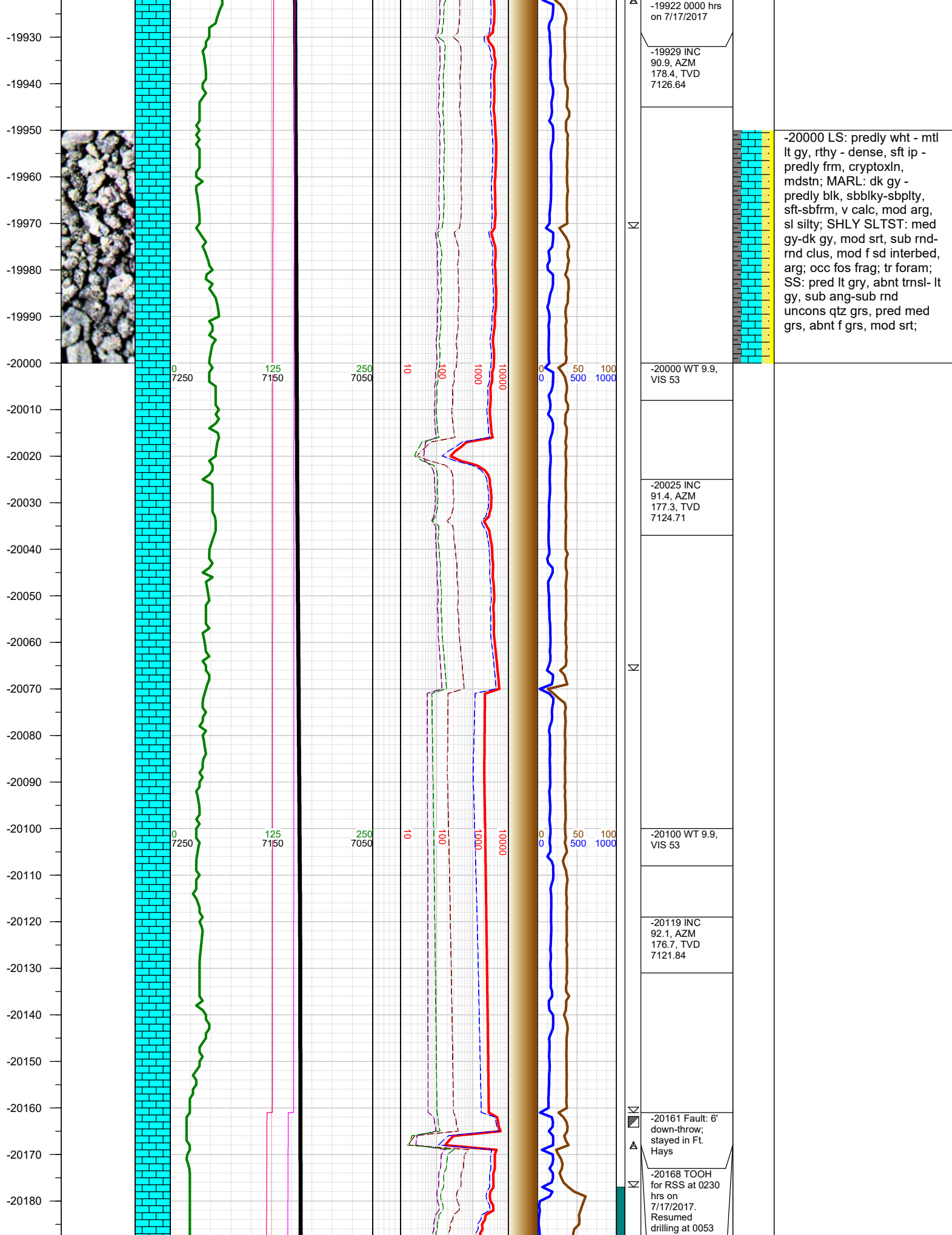


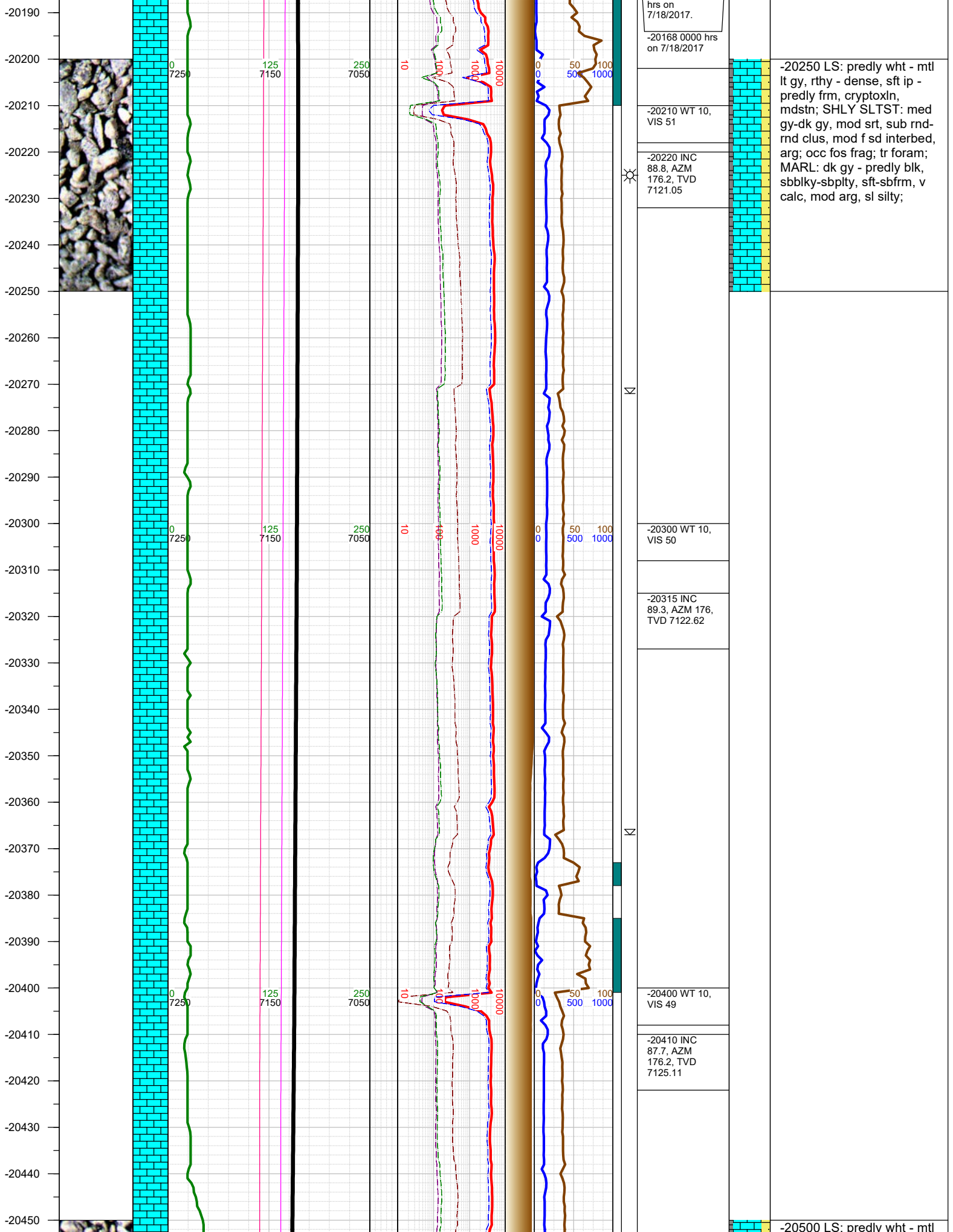


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-19790
-19800
-19810
-19820
-19830
-19840
-19850
-19860
-19870
-19880
-19890
-19900
-19910
-19920



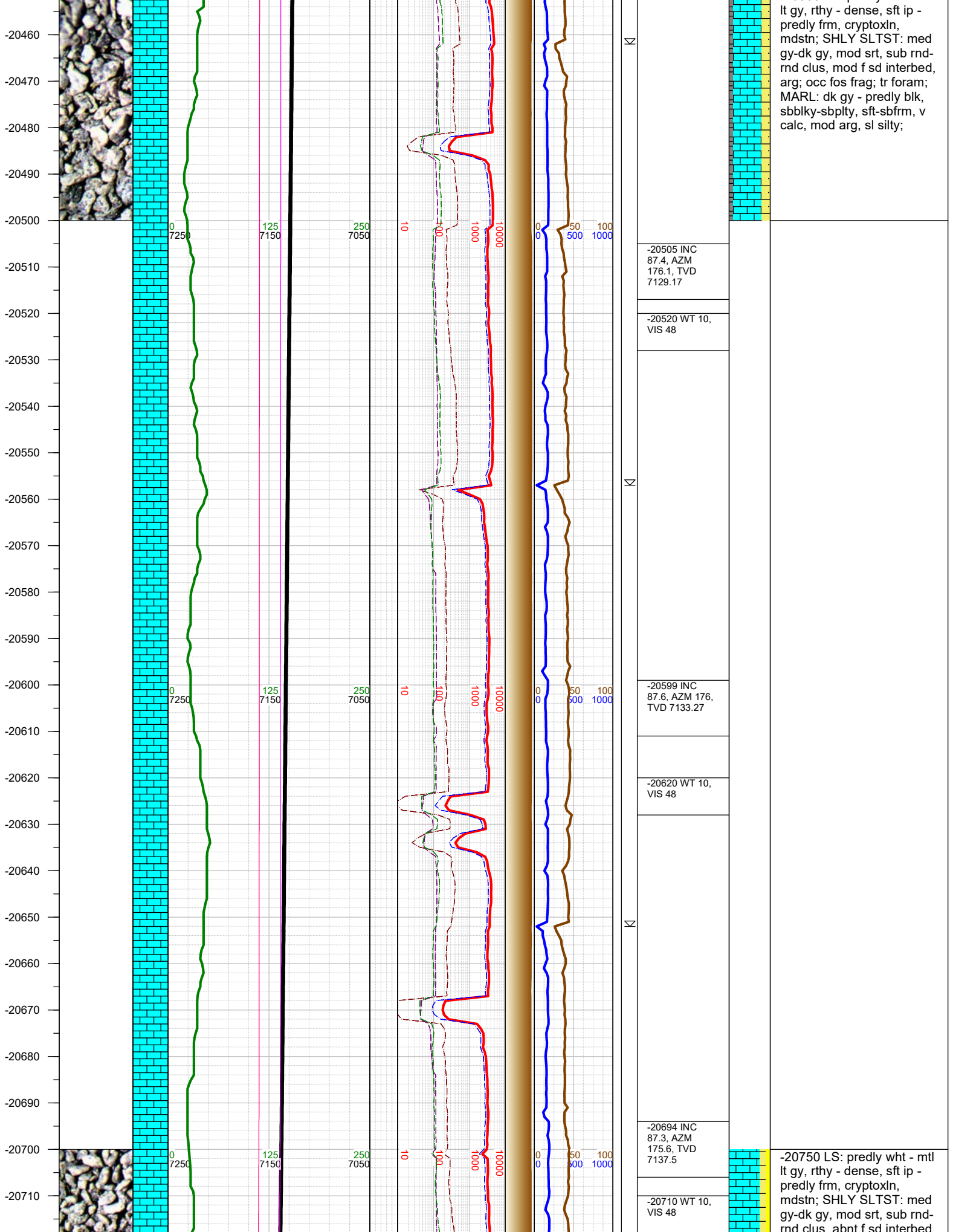
hrs on 7/16/2017; Bit #4 - Reed TK59, 1x12 4x14, 8.5"		
-19646 INC 91, AZM 180.9, TVD 7133.14		
-19700 WT 9.9, VIS 55		-19750 SHLY SS: med gy- gybrn, frm- fri clus wi arg- sil cmt, f- v fgr, mod- p srt, sub ang-sub rnd; SS: pred lt gry, abnt trnsl- lt gy, sub ang-sub rnd unconc qtz grs, pred med grs, abnt f grs, mod srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, mod f sd interbed, arg; tr pyr;
-19740 INC 91.3, AZM 180.5, TVD 7131.25		
-19800 WT 9.9, VIS 55		
-19834 INC 91.7, AZM 179.8, TVD 7128.79		
-19900 WT 9.9, VIS 53		





-20250 LS: predly wht - mtl
lt gy, rthy - dense, sft ip -
predly frm, cryptoxln,
mdstn; SHLY SLTST: med
gy-dk gy, mod srt, sub rnd-
rnd clus, mod f sd interbed,
arg; occ fos frag; tr foram;
MARL: dk gy - predly blk,
sbbly-sbply, sft-sbfrm, v
calc, mod arg, sl silty;

-20500 LS: predly wht - mtl



lt gy, rthy - dense, sft ip - predly frm, cryptoxln, mdstn; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, mod f sd interbed, arg; occ fos frag; tr foram; MARL: dk gy - predly blk, sbblky-sbply, sft-sbfrm, v calc, mod arg, sl silty;

-20505 INC
87.4, AZM
176.1, TVD
7129.17

-20520 WT 10,
VIS 48

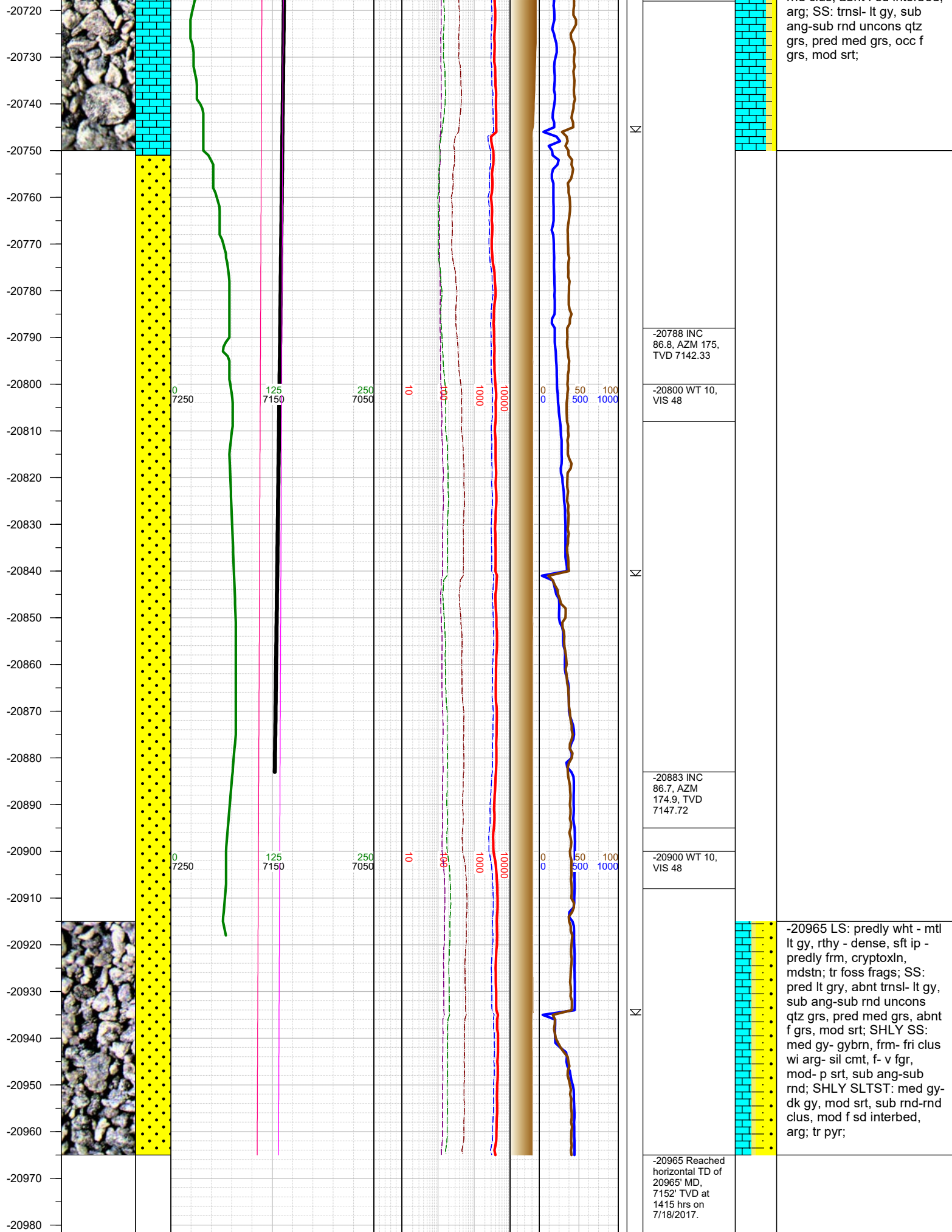
-20599 INC
87.6, AZM 176,
TVD 7133.27

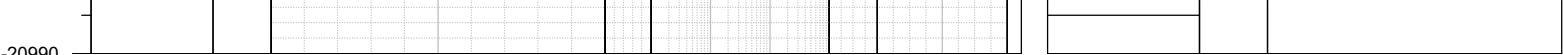
-20620 WT 10,
VIS 48

-20694 INC
87.3, AZM
175.6, TVD
7137.5

-20710 WT 10,
VIS 48

-20750 LS: predly wht - mtl
lt gy, rthy - dense, sft ip - predly frm, cryptoxln, mdstn; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, abnt f sd interbed





TOTAL DEPTH = 20965'

Thank you for using Earth Science Agency