

OPERATOR: **Extraction Oil & Gas**

WELL NAME: **CS Scott C4-1-13**

FIELD NAME: DJ Basin - Wattenberg

DRILLING RIG: Patterson 341

API #: 05-123-42914

LAT/LONG: 40.43837, -104.72297

SURFACE HOLE: SWSE S36-T6N-R66W, 340' FSL, 1976' FEL

BOTTOM HOLE: S13-T5N-R66W, 2196' FNL, 2119' FWL



Earth Science Agency, LLC

COUNTY: Weld

STATE: Colorado

GROUND ELEVATION: 4665'

KELLY BUSHING: 4690'

DRILLING FLUID: OBM

TVD VS. MD: 7090' / 20417'

SPUD DATE: August 5, 2017

TD DATE: August 8, 2017

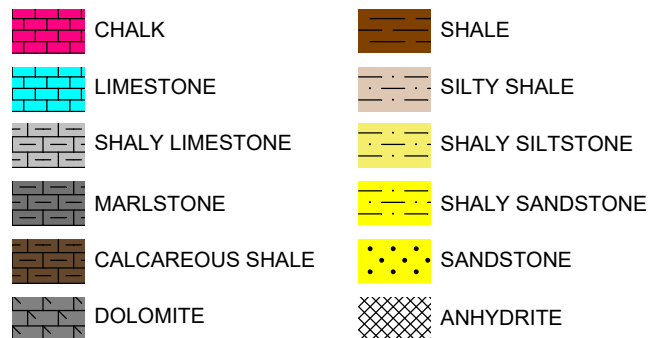
DEPTHS LOGGED: 6000' - 20417'

DATES LOGGED: August 5, 2017 - August 8, 2017

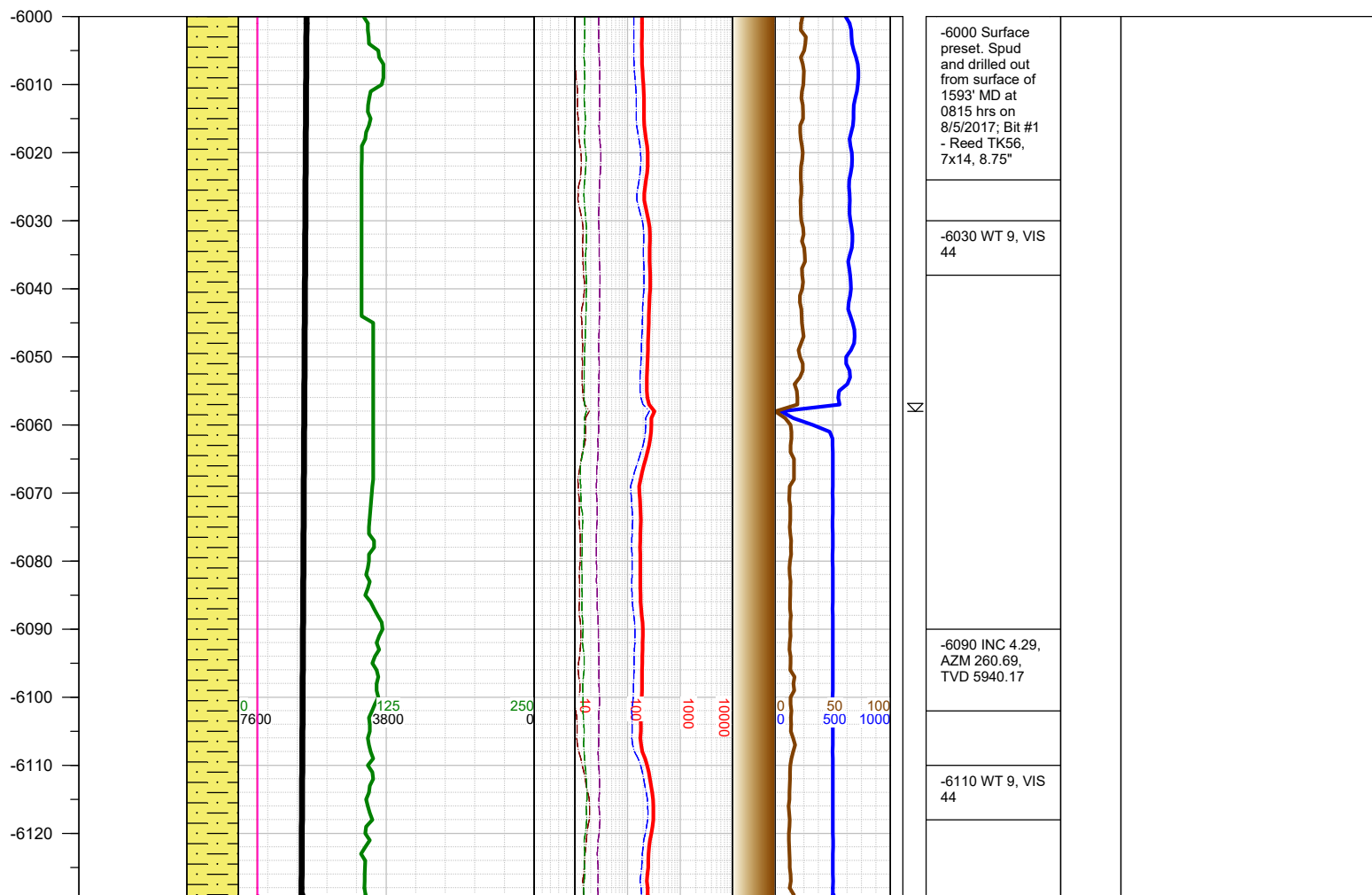
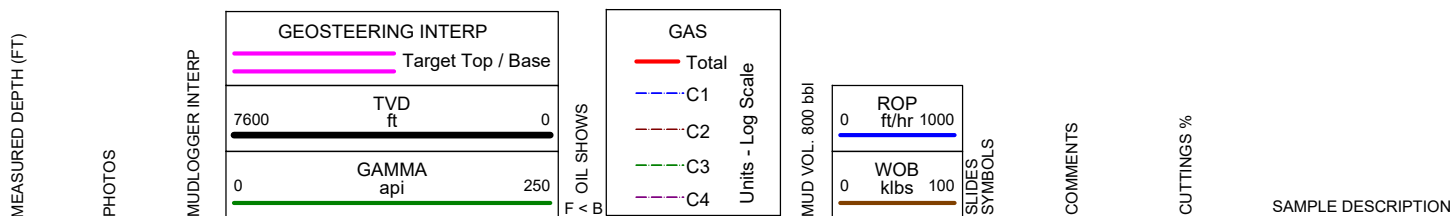
GEOLOGISTS: Blake Eatherton, Dominic Pitre

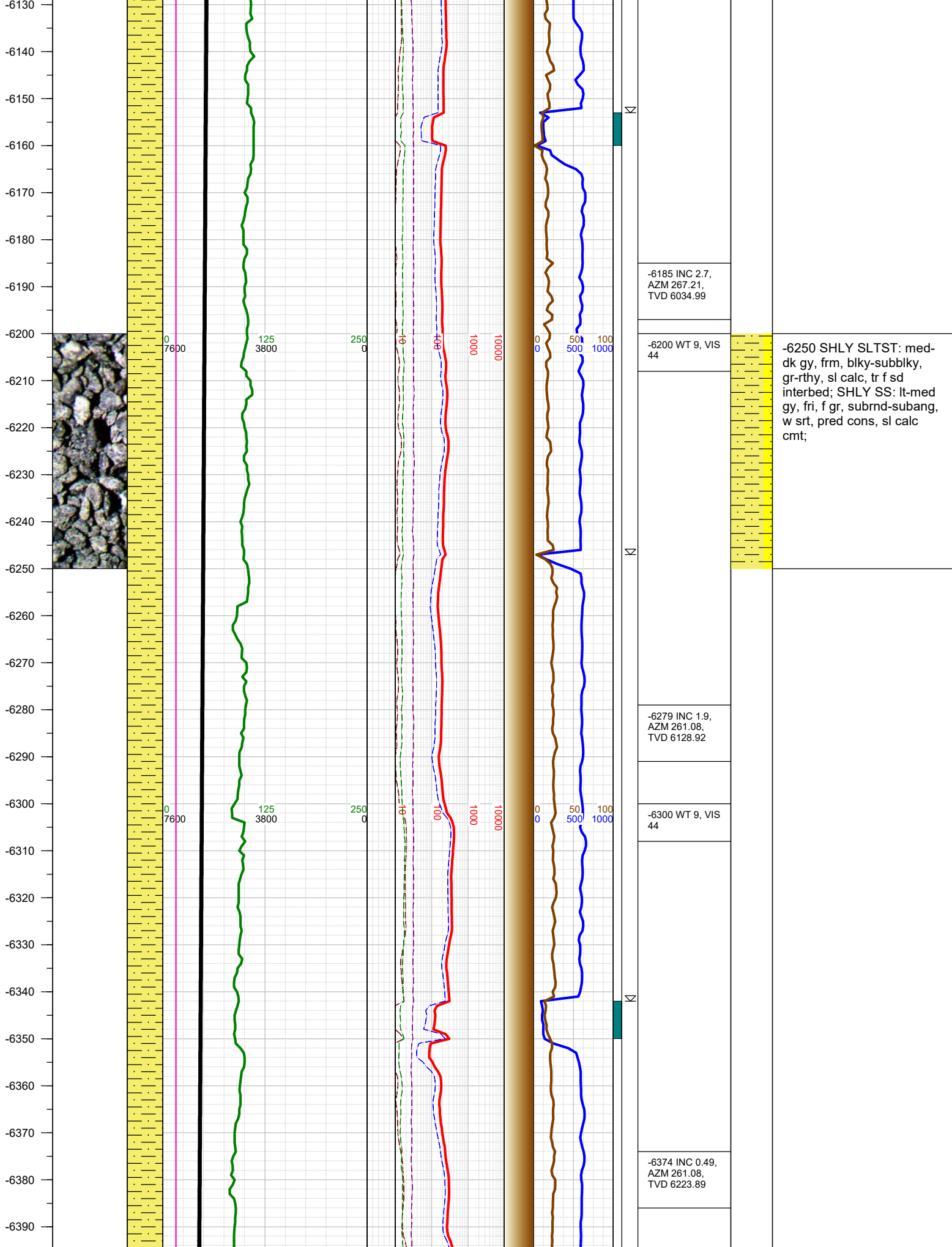
SCALE: 5" = 100'

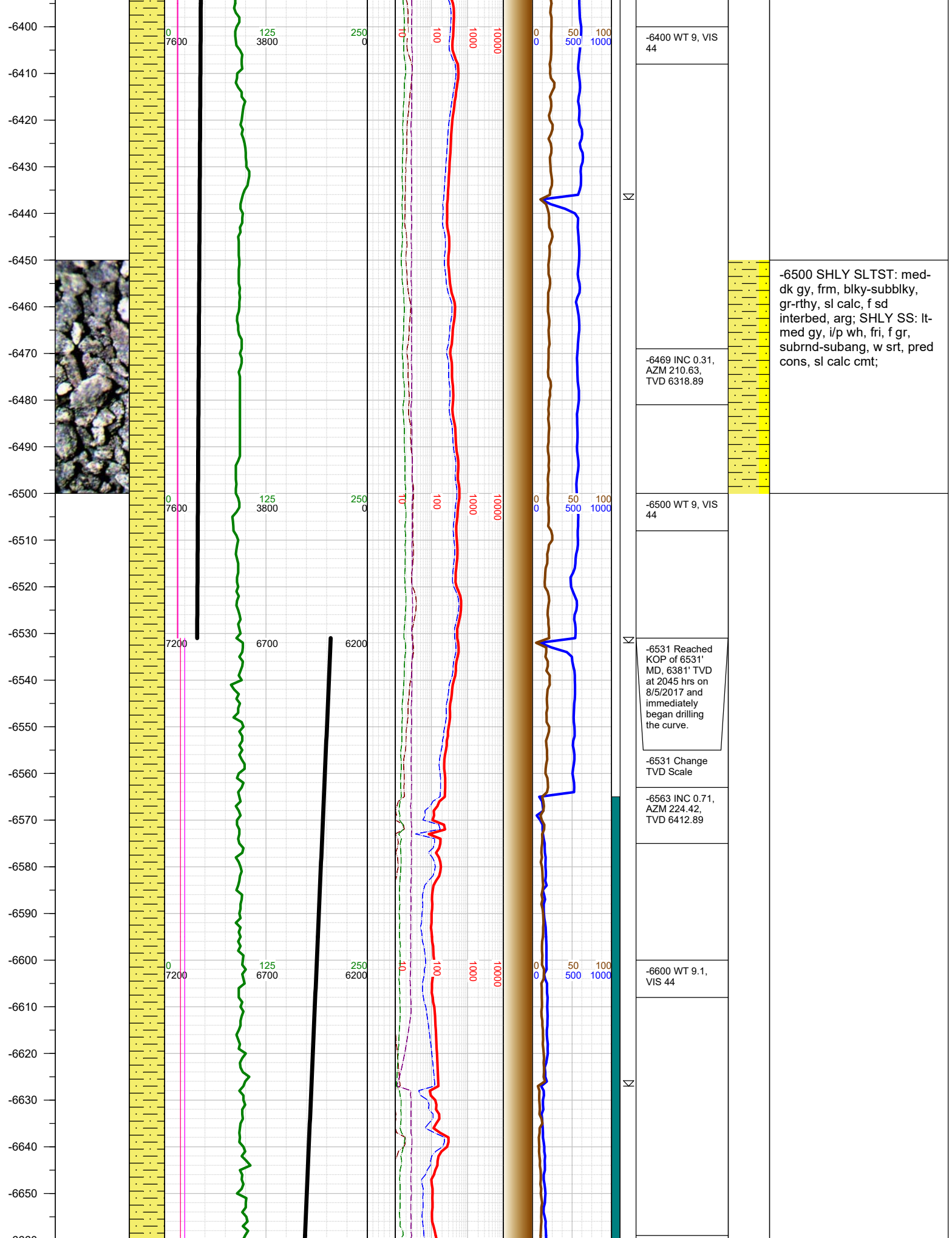
LEGEND

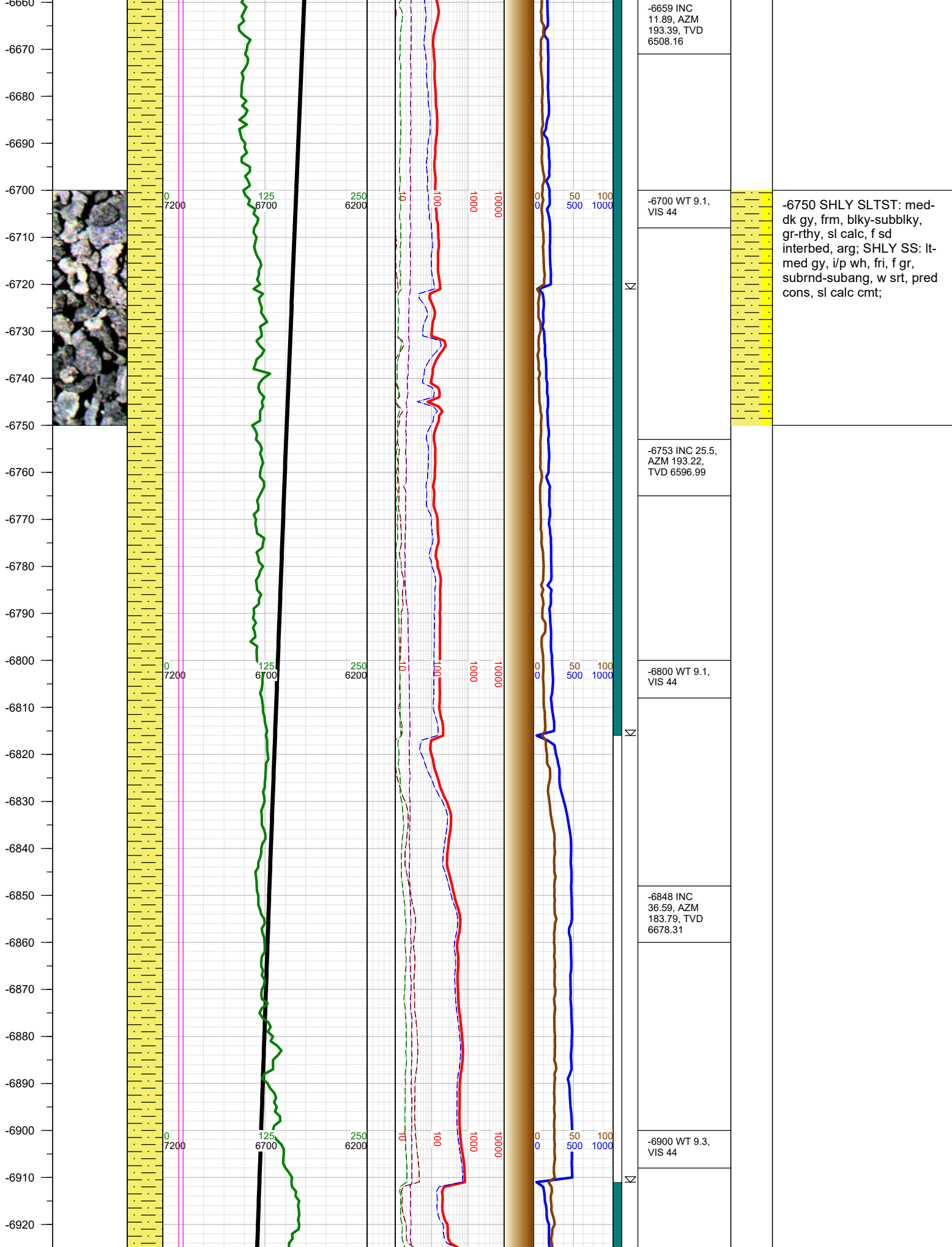


FORMATION \approx CONNECTION Δ MIDNIGHT NEW BIT GAS SHOW FAULT









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11.89, AZM
193.39, TVD
6508.16

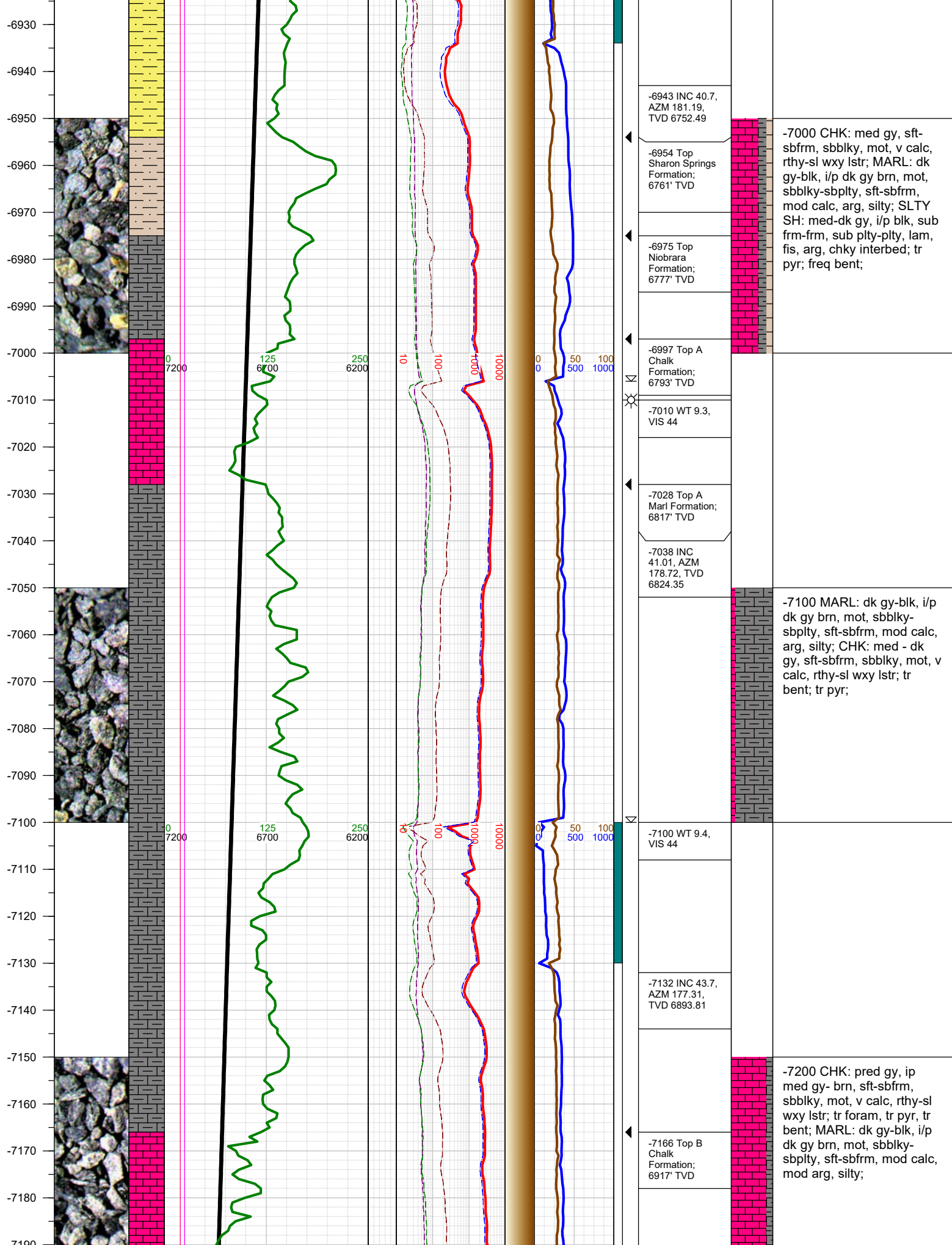
-6700 WT 9.1,
VIS 44

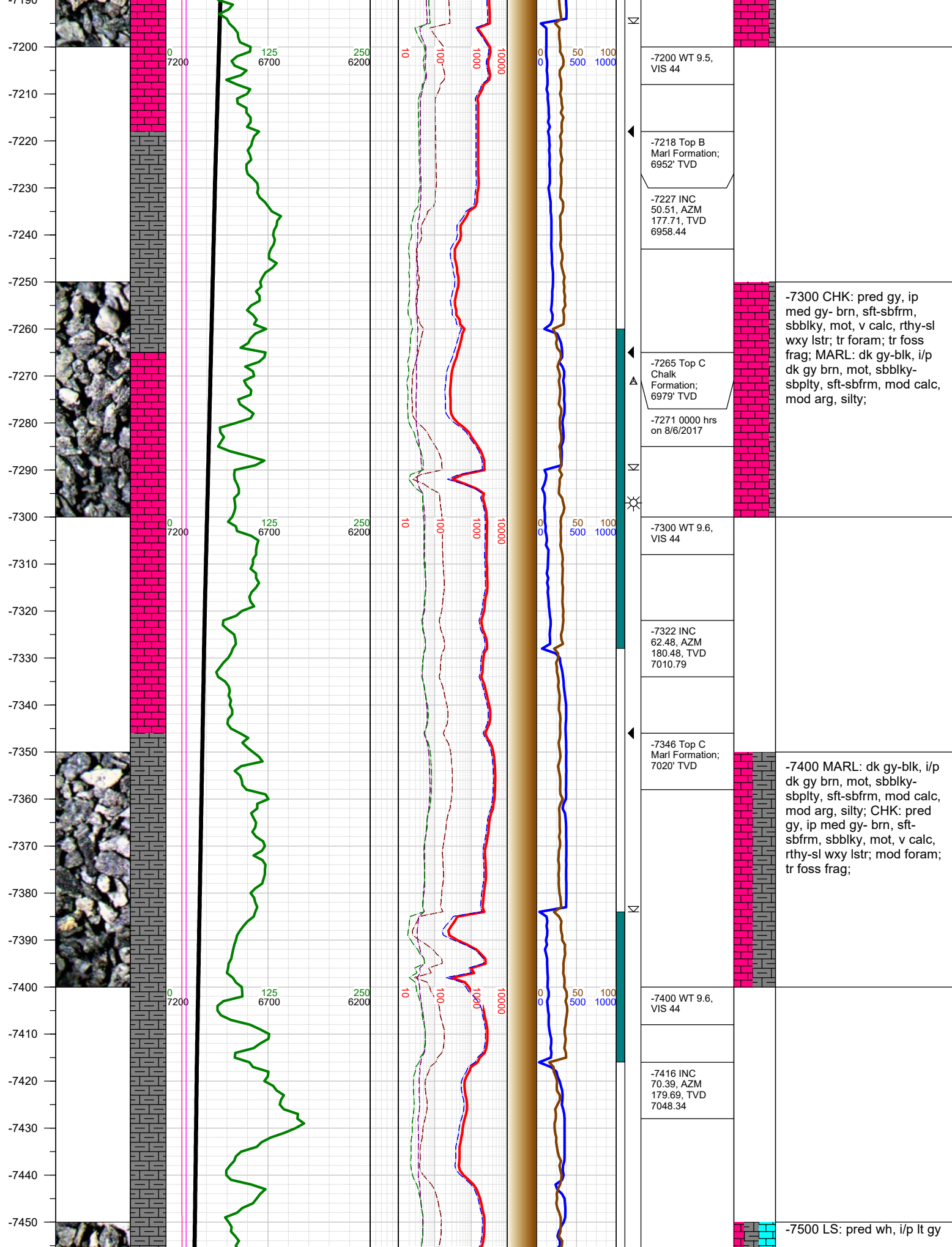
-6753 INC 25.5,
AZM 193.22,
TVD 6596.99

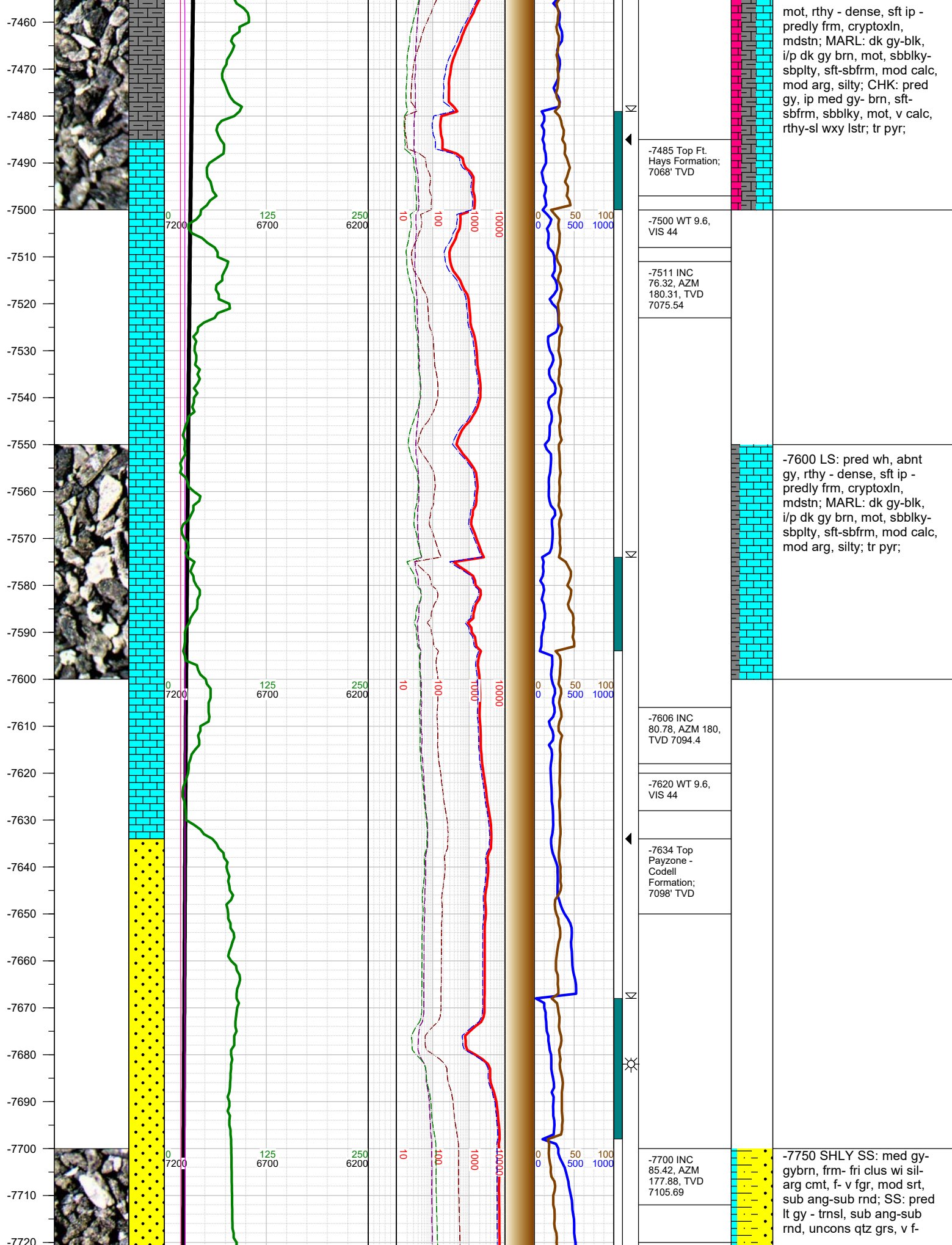
-6800 WT 9.1,
VIS 44

-6848 INC
36.59, AZM
183.79, TVD
6678.31

-6900 WT 9.3,
VIS 44







mot, rthy - dense, sft ip - predly frm, cryptoxln, mdstn; MARL: dk gy-blk, i/p dk gy brn, mot, sbbkly-sbplty, sft-sbfrm, mod calc, mod arg, silty; CHK: pred gy, ip med gy- brn, sft-sbfrm, sbbkly, mot, v calc, rthy-sl wxy lstr; tr pyr;

-7485 Top Ft. Hays Formation; 7068' TVD

-7500 WT 9.6, VIS 44

-7511 INC 76.32, AZM 180.31, TVD 7075.54

-7600 LS: pred wh, abnt gy, rthy - dense, sft ip - predly frm, cryptoxln, mdstn; MARL: dk gy-blk, i/p dk gy brn, mot, sbbkly-sbplty, sft-sbfrm, mod calc, mod arg, silty; tr pyr;

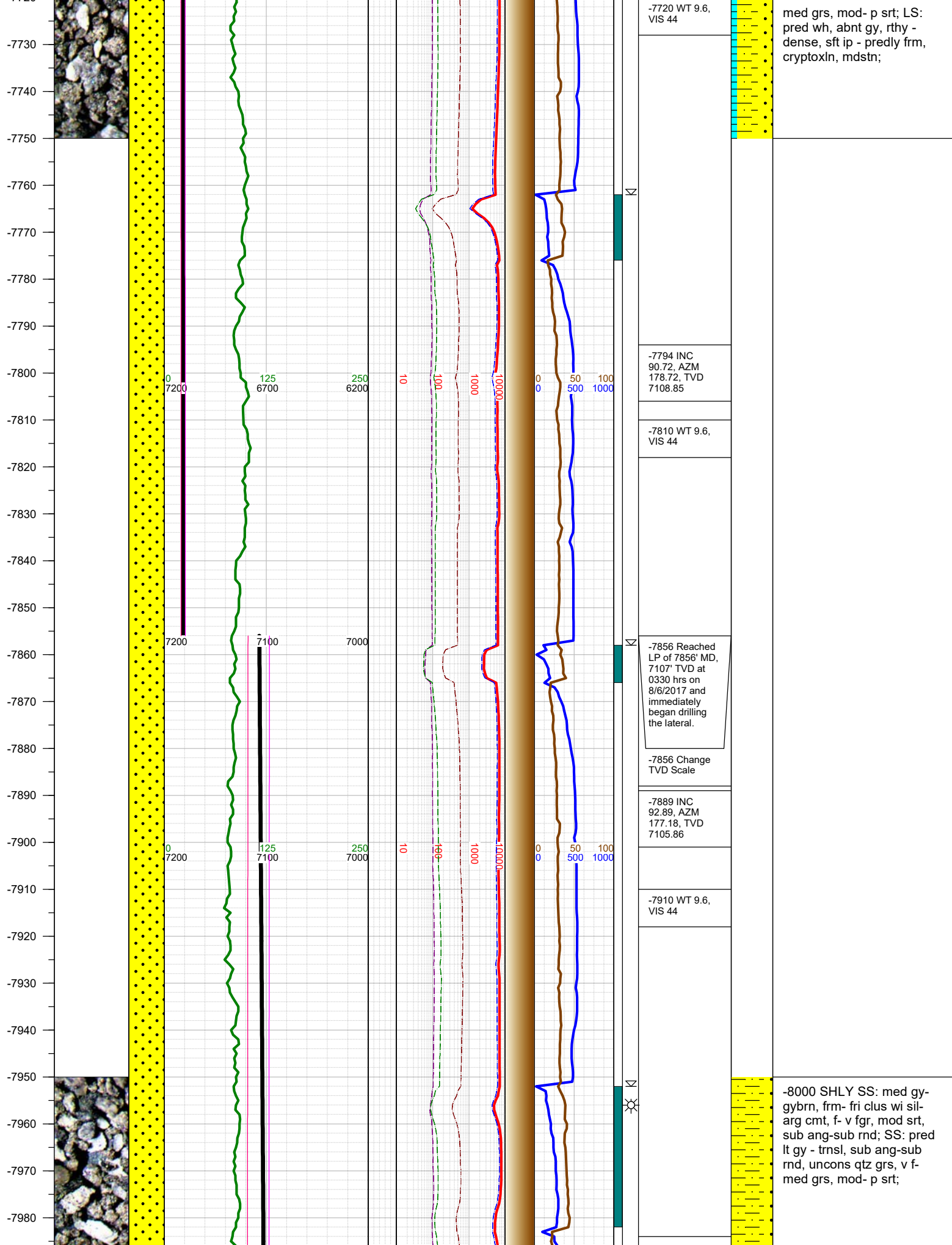
-7606 INC 80.78, AZM 180, TVD 7094.4

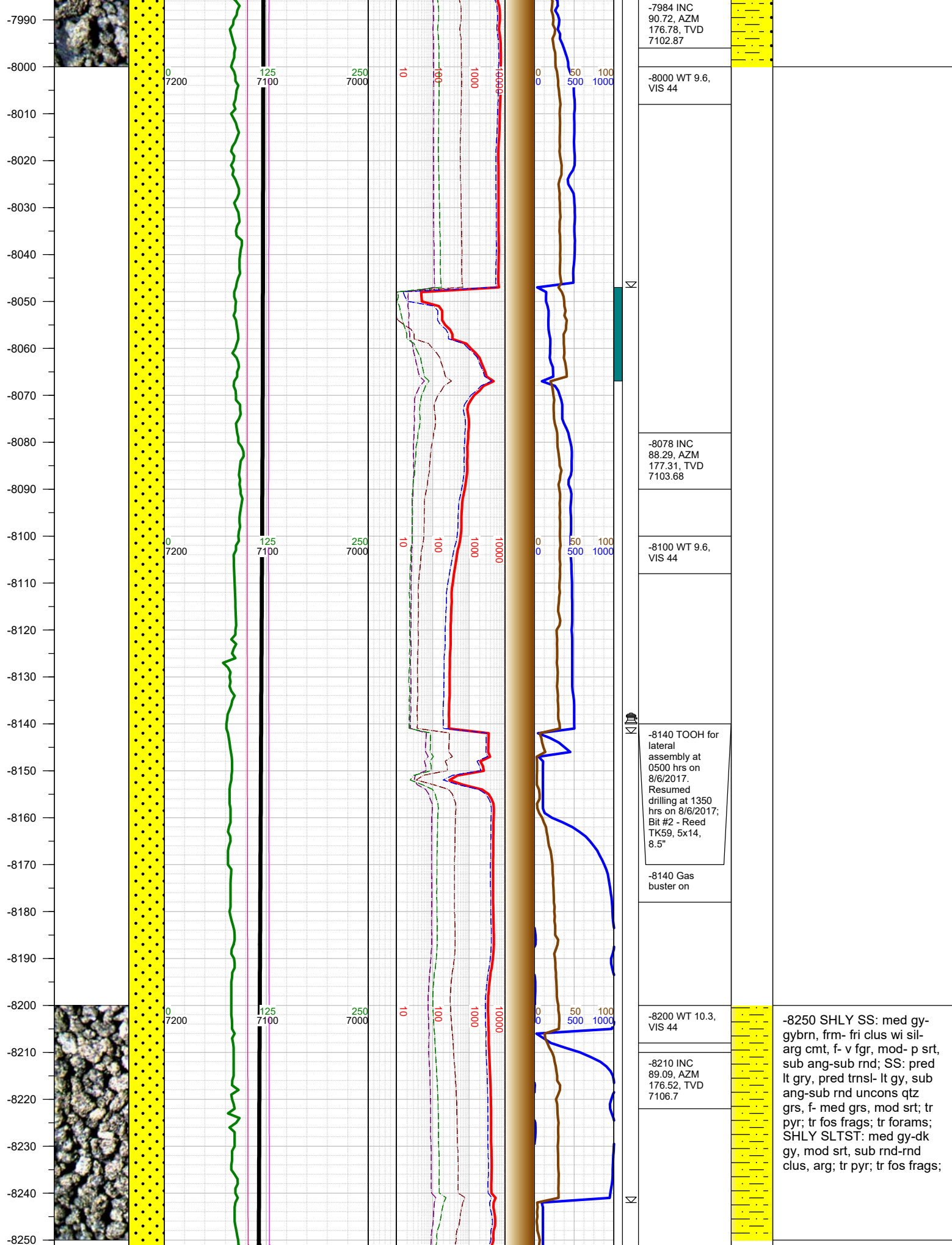
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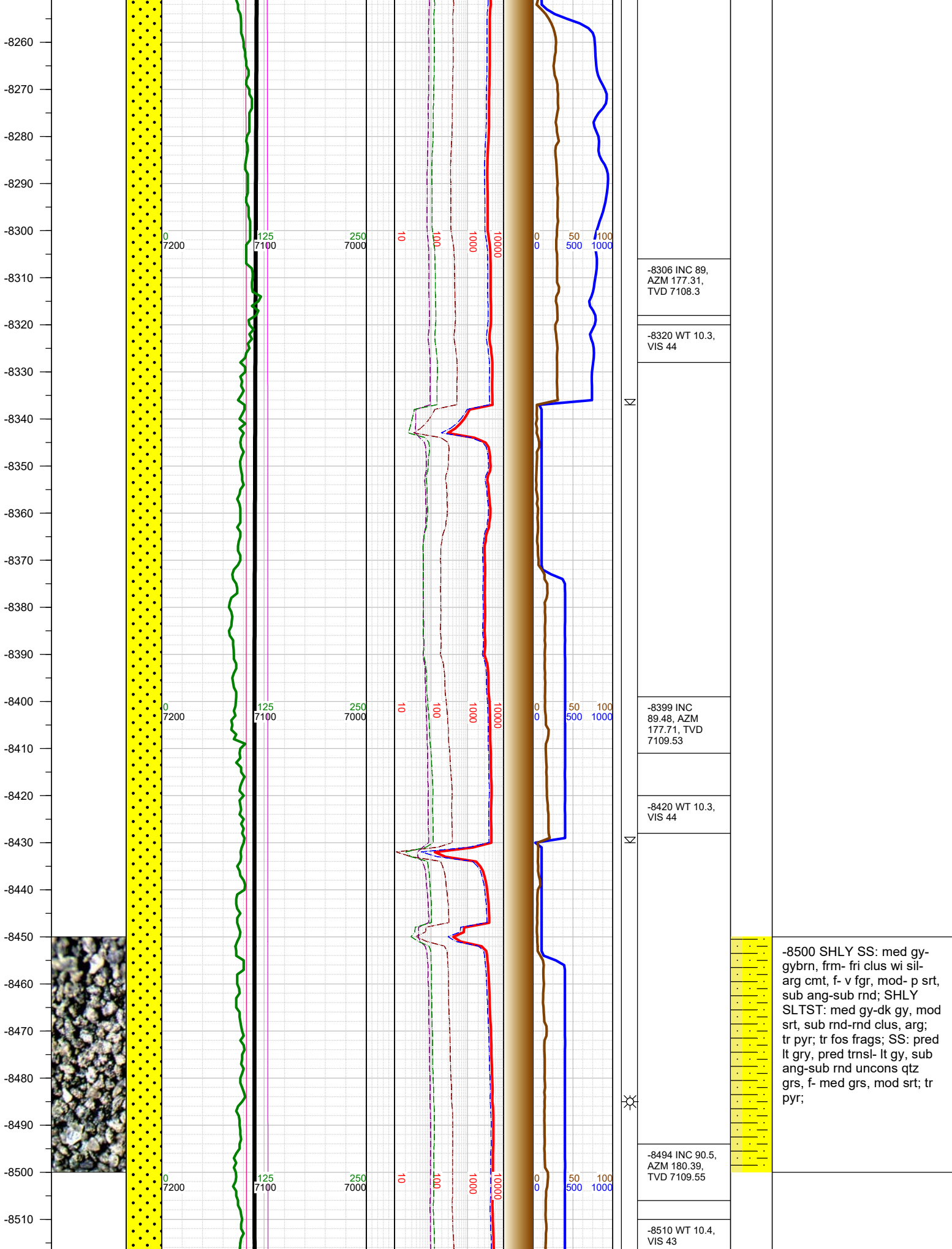
-7634 Top Payzone - Codell Formation; 7098' TVD

-7700 INC 85.42, AZM 177.88, TVD 7105.69

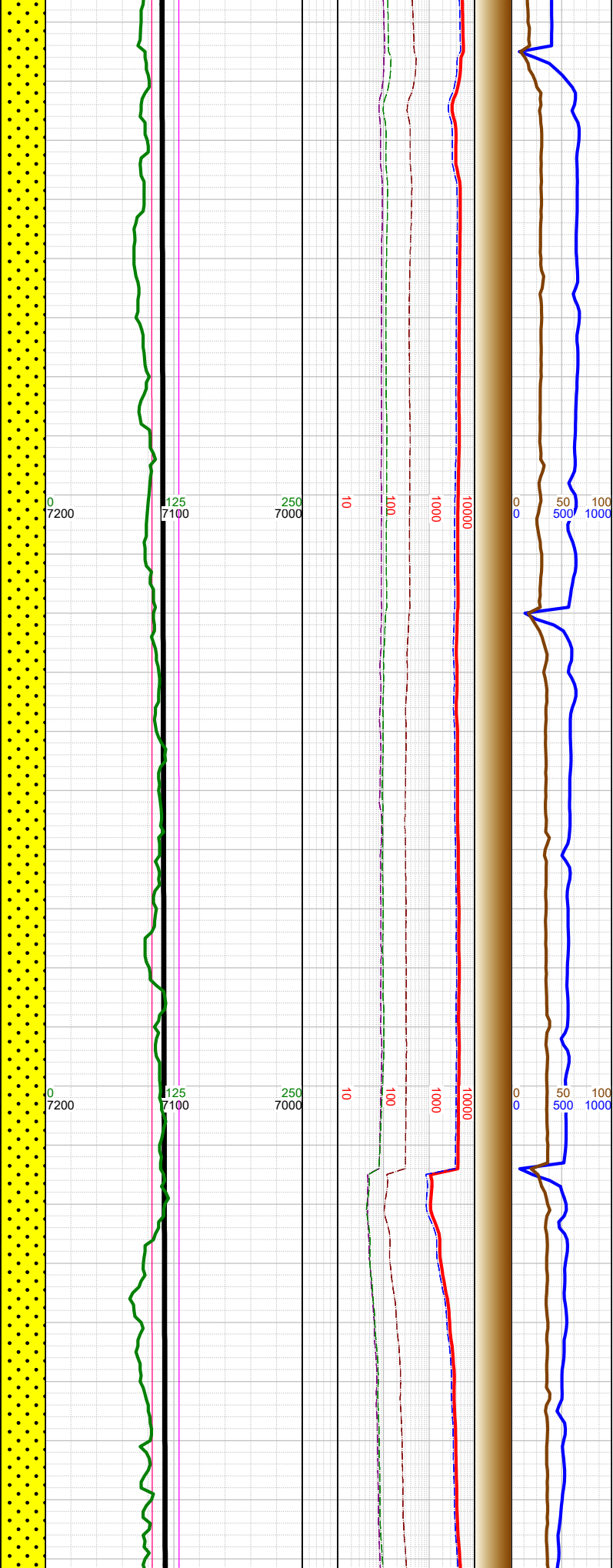
-7750 SHLY SS: med gy-gybrn, frm- fri clus wi sil-arg cmt, f- v fgr, mod srt, sub ang-sub rnd; SS: pred lt gy - trnsl, sub ang-sub rnd, uncons qtz grs, v f-



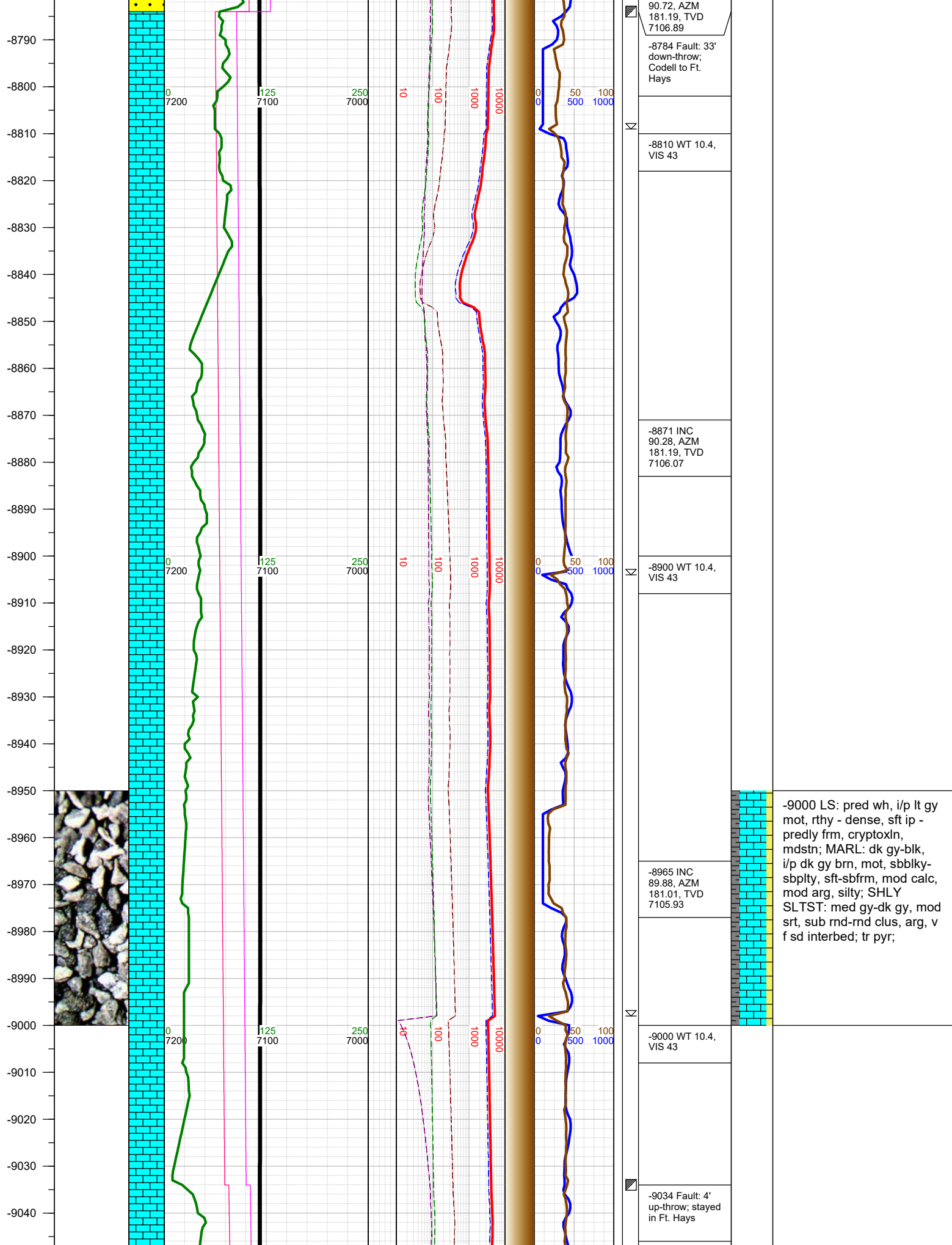


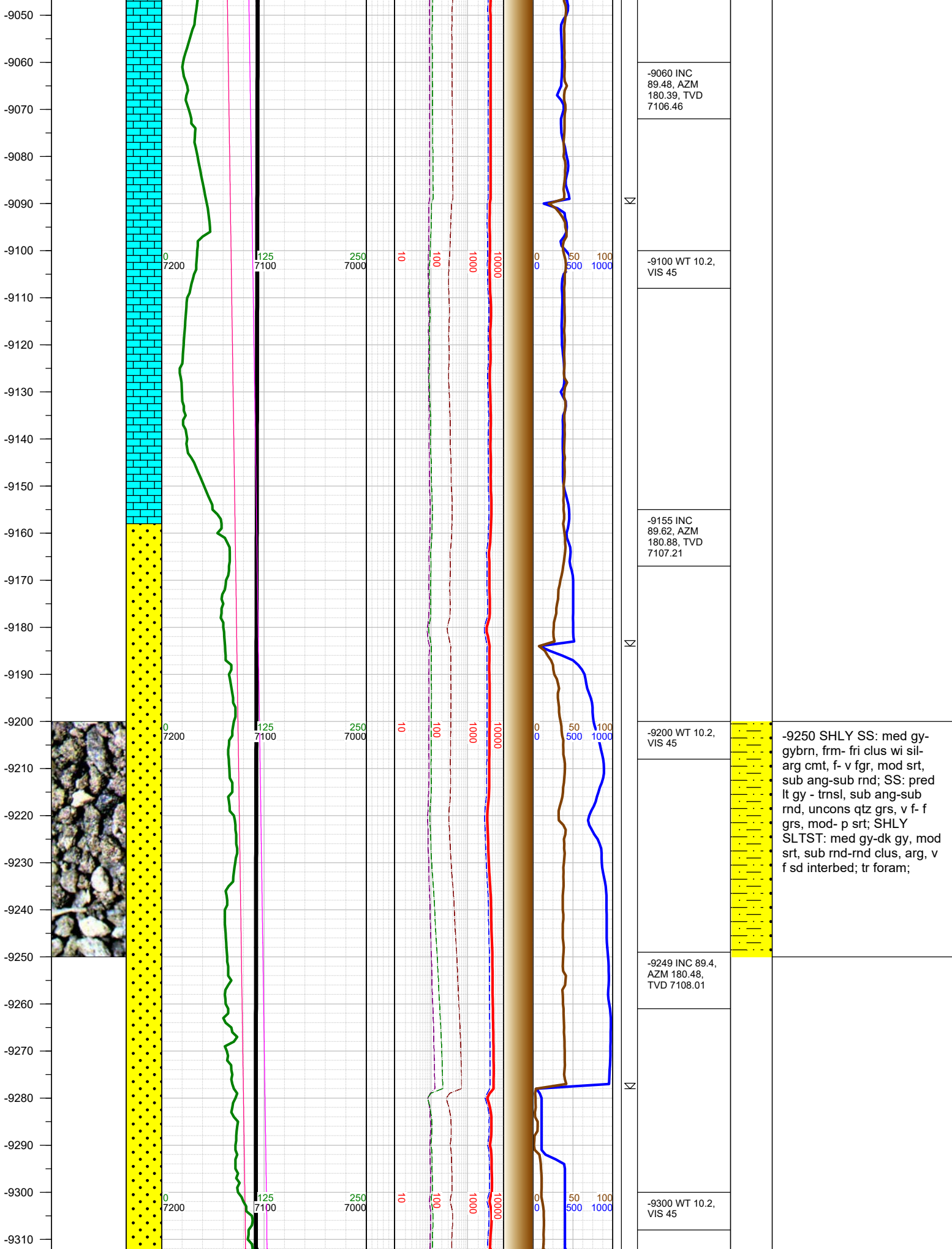


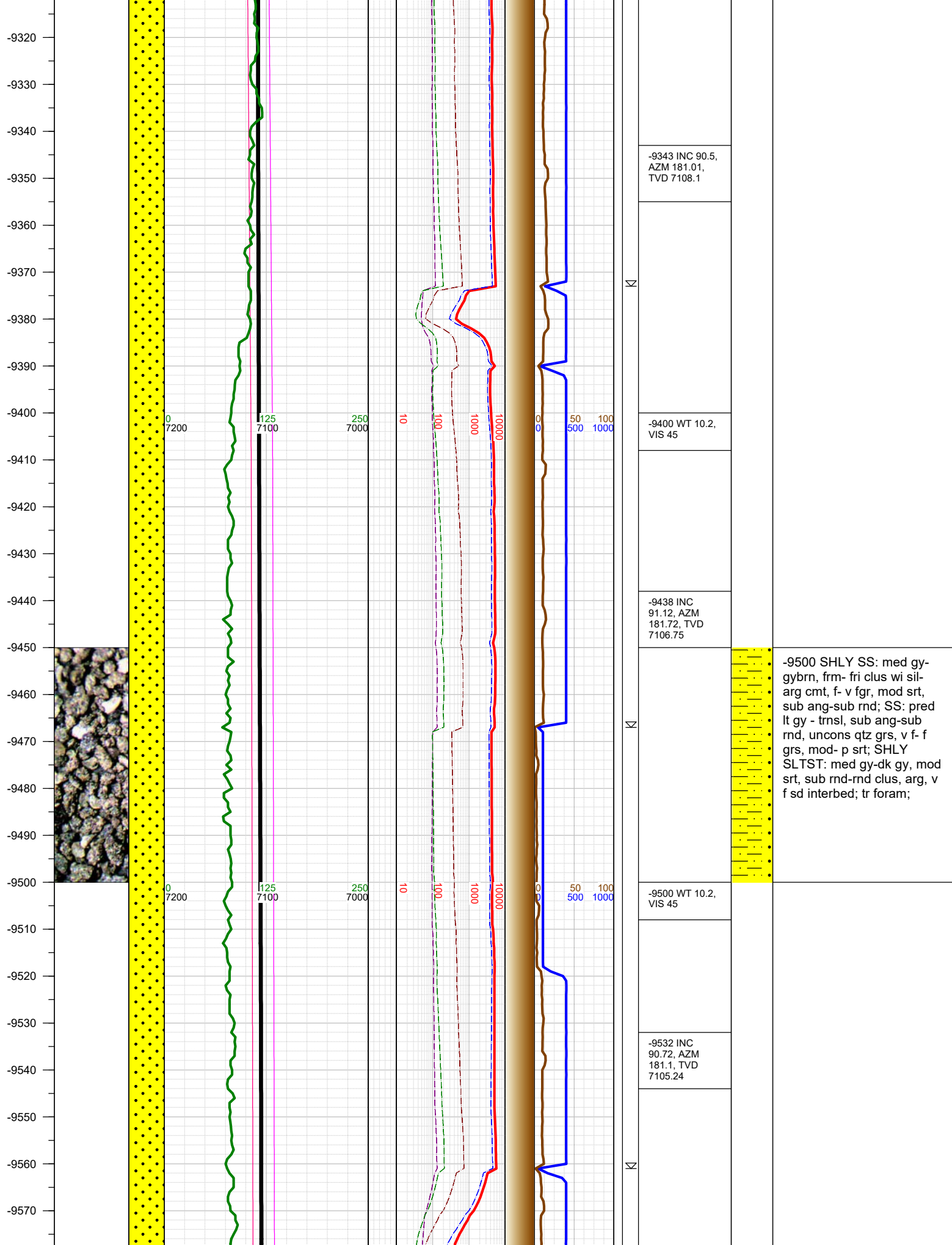
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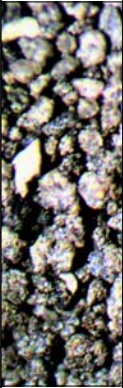
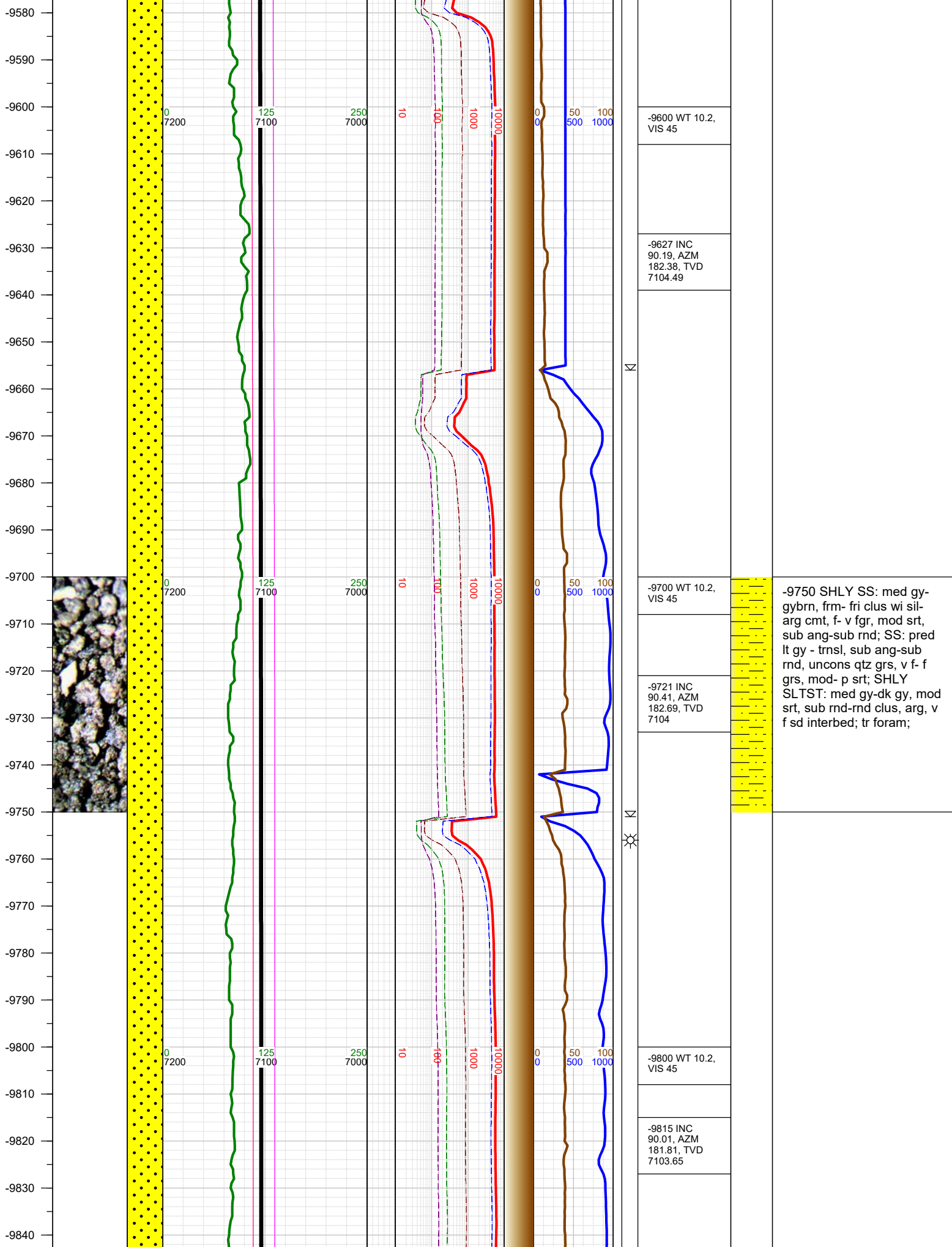


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N			-8682 INC 90.5, AZM 179.78, TVD 7107.9
N			-8700 WT 10.4, VIS 43
			-8750 SHLY SS: med gy- gybrn, frm- fri clus wi sil- arg cmt, f- v fgr, mod- p srt, sub ang-sub rnd; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg; tr pyr; tr fos frags; SS: pred lt gry, pred trns- lt gy, sub ang-sub rnd uncon- qtz grs, f- med grs, mod srt; tr pyr; tr ls;
			-8777 INC

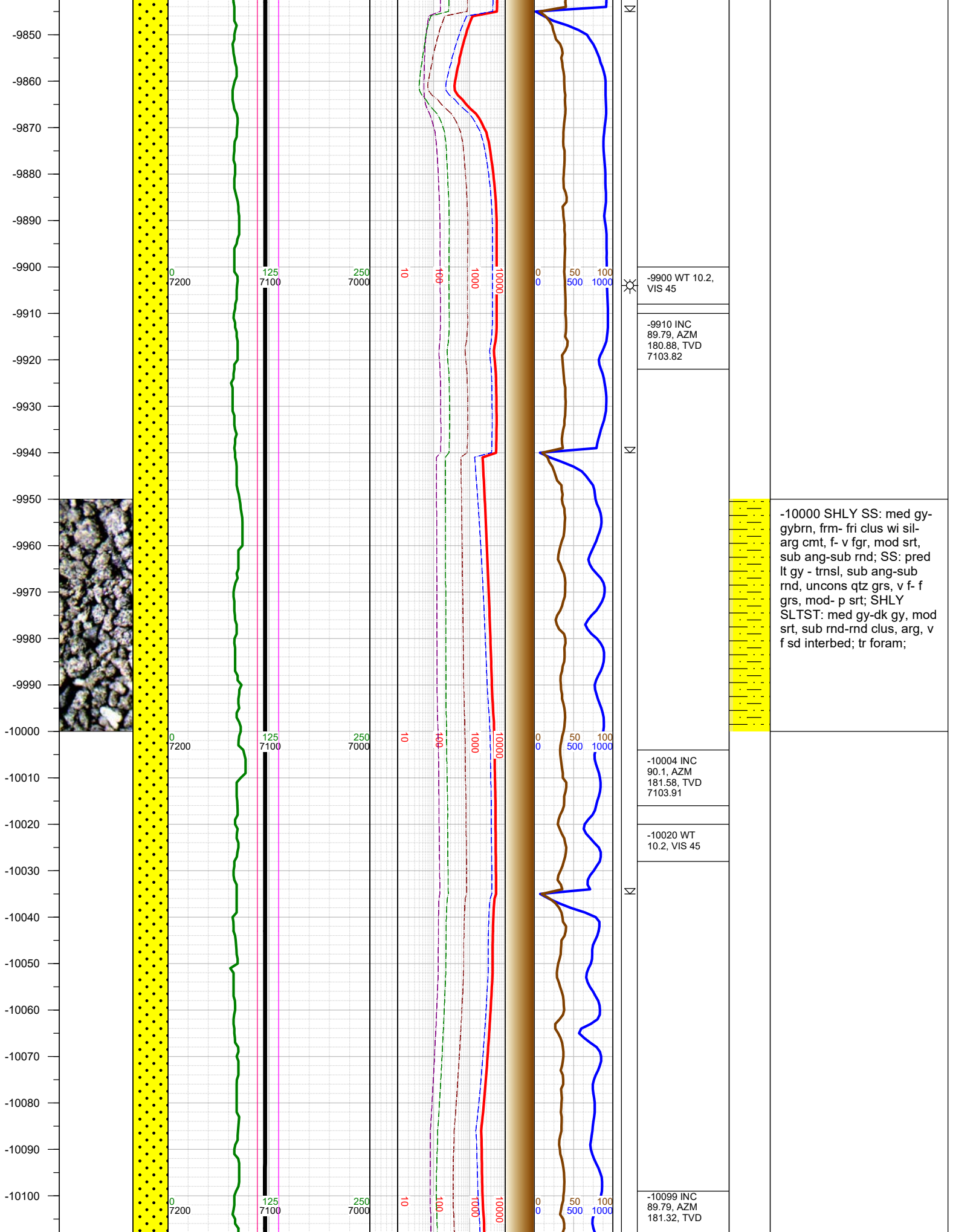




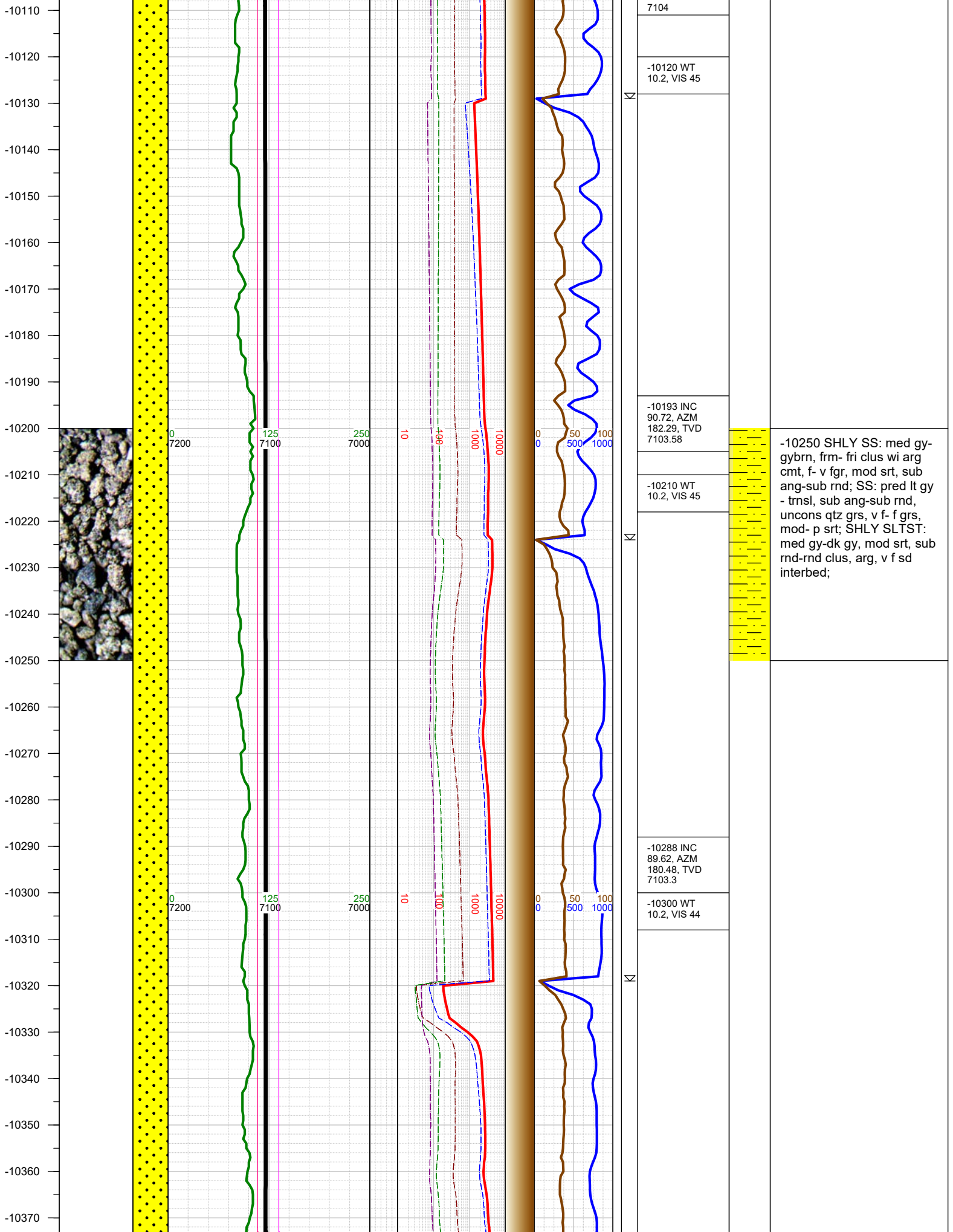


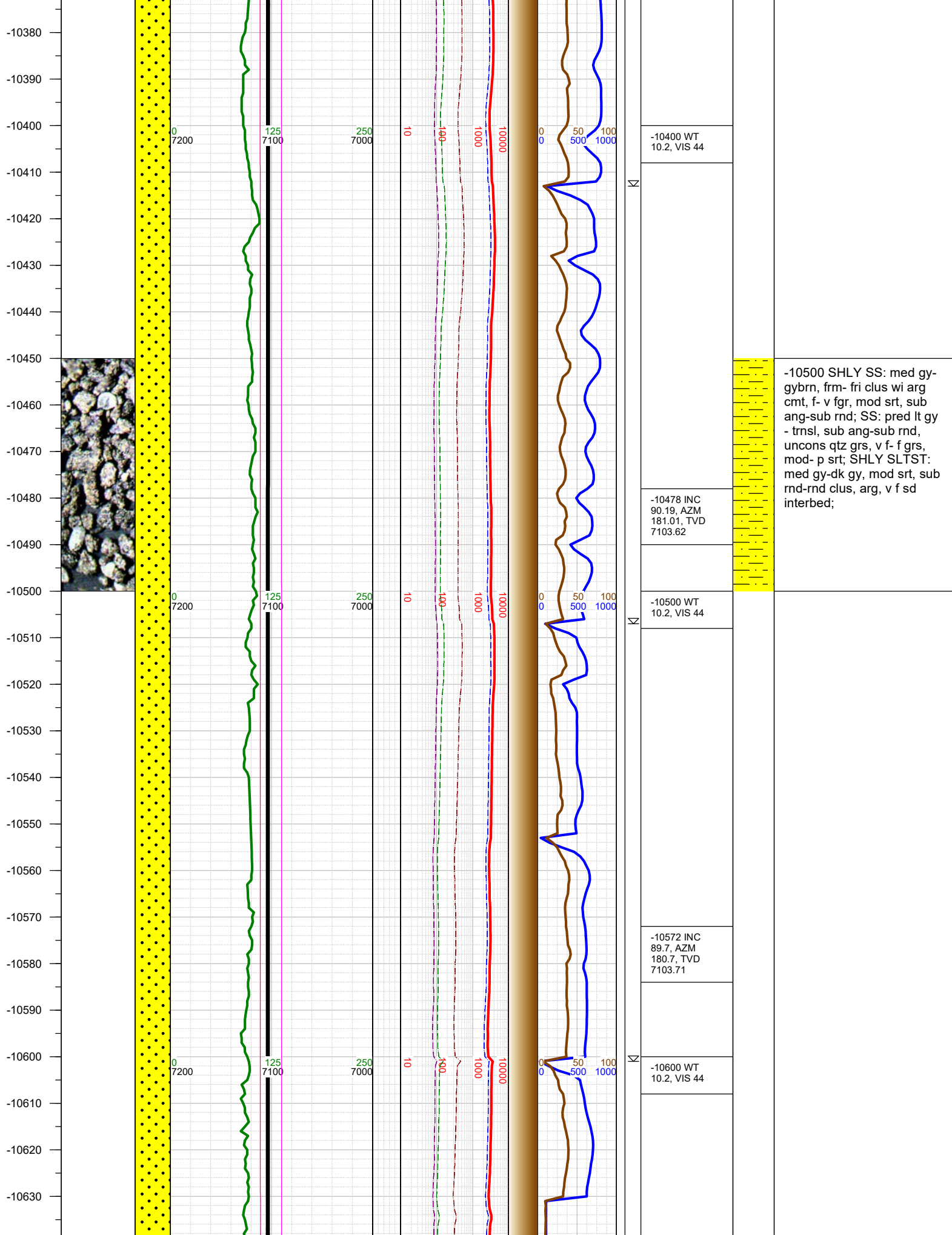


-9750 SHLY SS: med gy-gybrn, frm- fri clus wi sil-arg cmt, f- v fgr, mod srt, sub ang-sub rnd; SS: pred lt gy - trnsf, sub ang-sub rnd, uncons qtz grs, v f- f grs, mod- p srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg, v f sd interbed; tr foram;

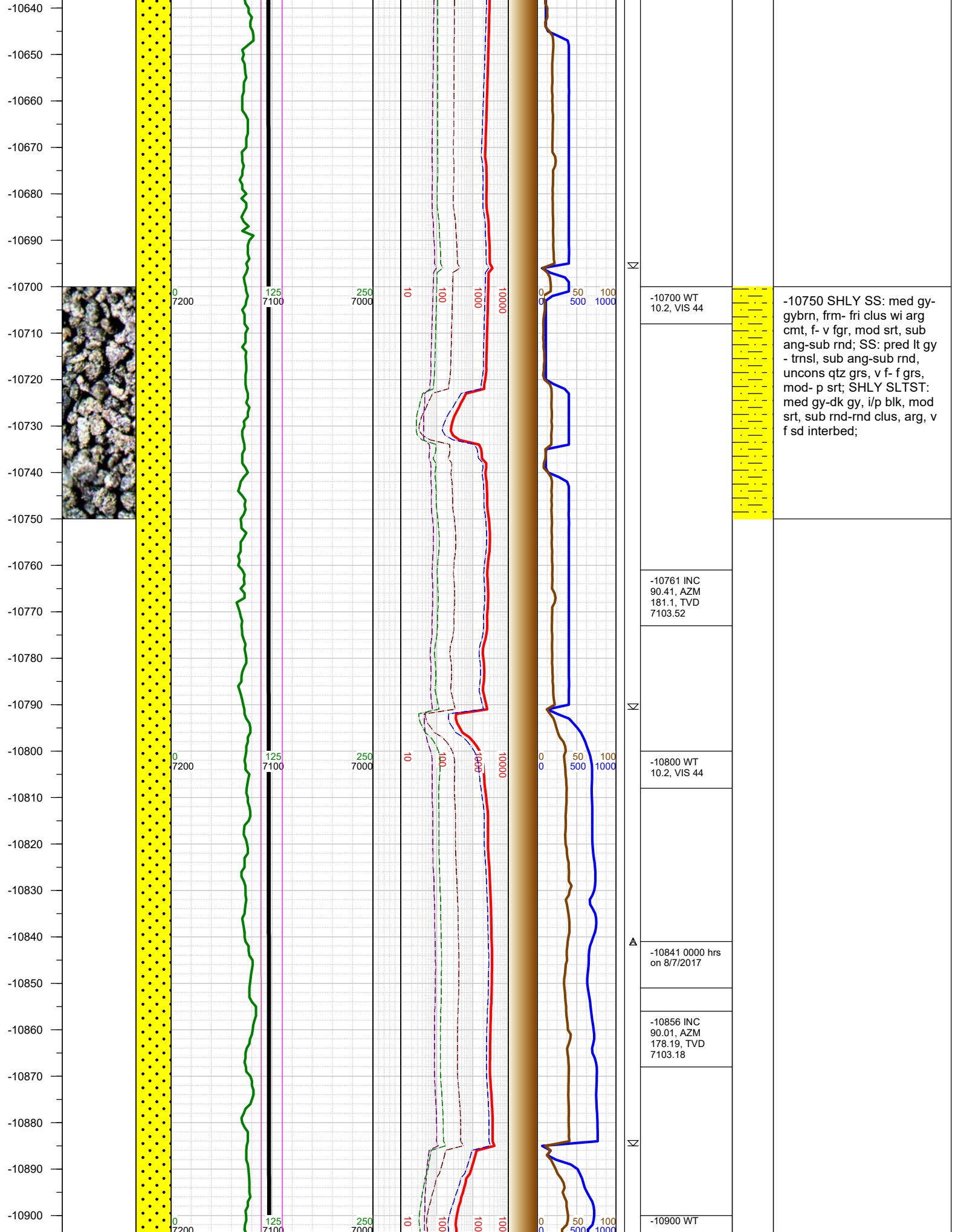


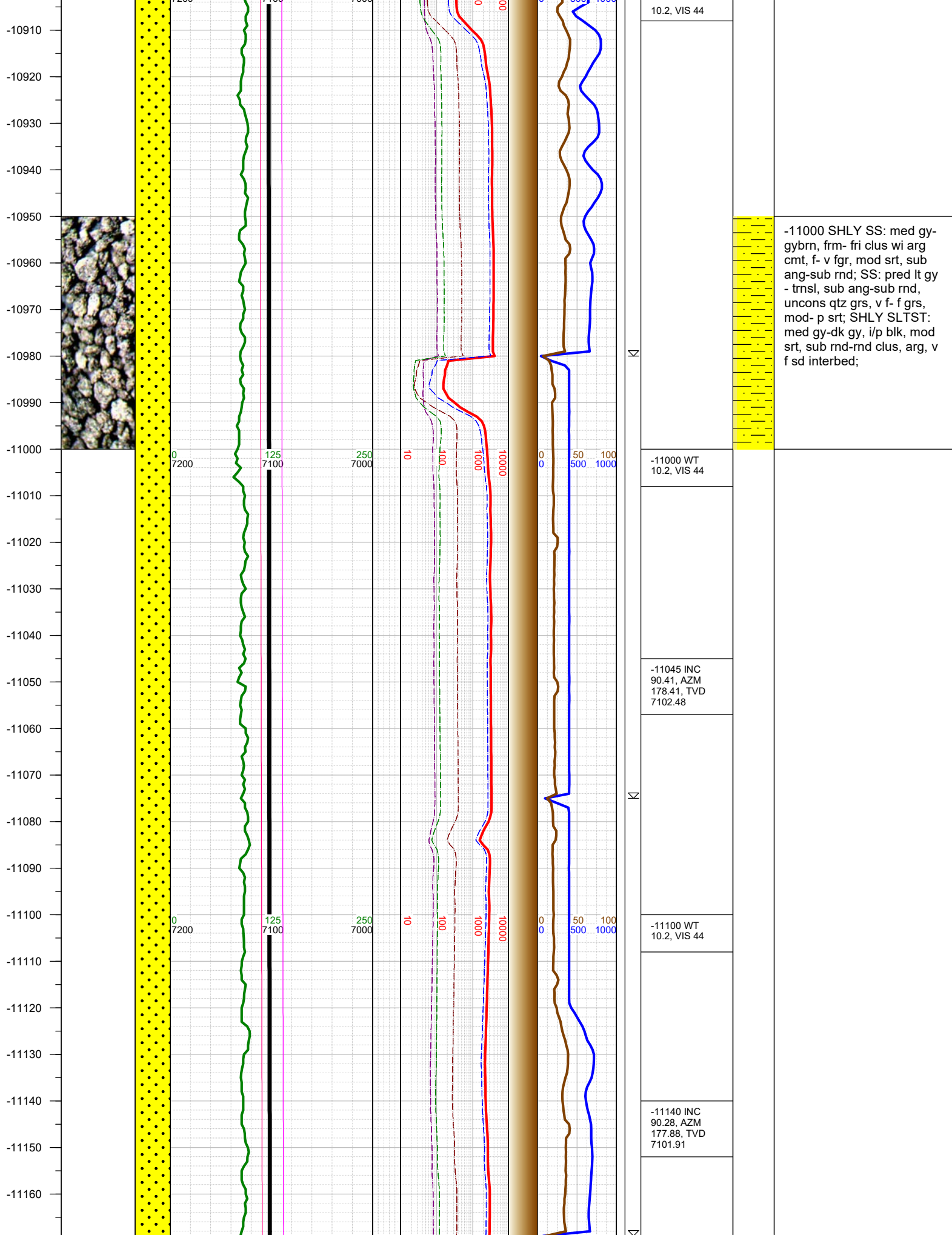
-10000 SHLY SS: med gy-gybrn, frm- fri clus wi sil-arg cmt, f- v fgr, mod srt, sub ang-sub rnd; SS: pred lt gy - trnsl, sub ang-sub rnd, uncons qtz grs, v f- f grs, mod- p srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg, v f sd interbed; tr foram;

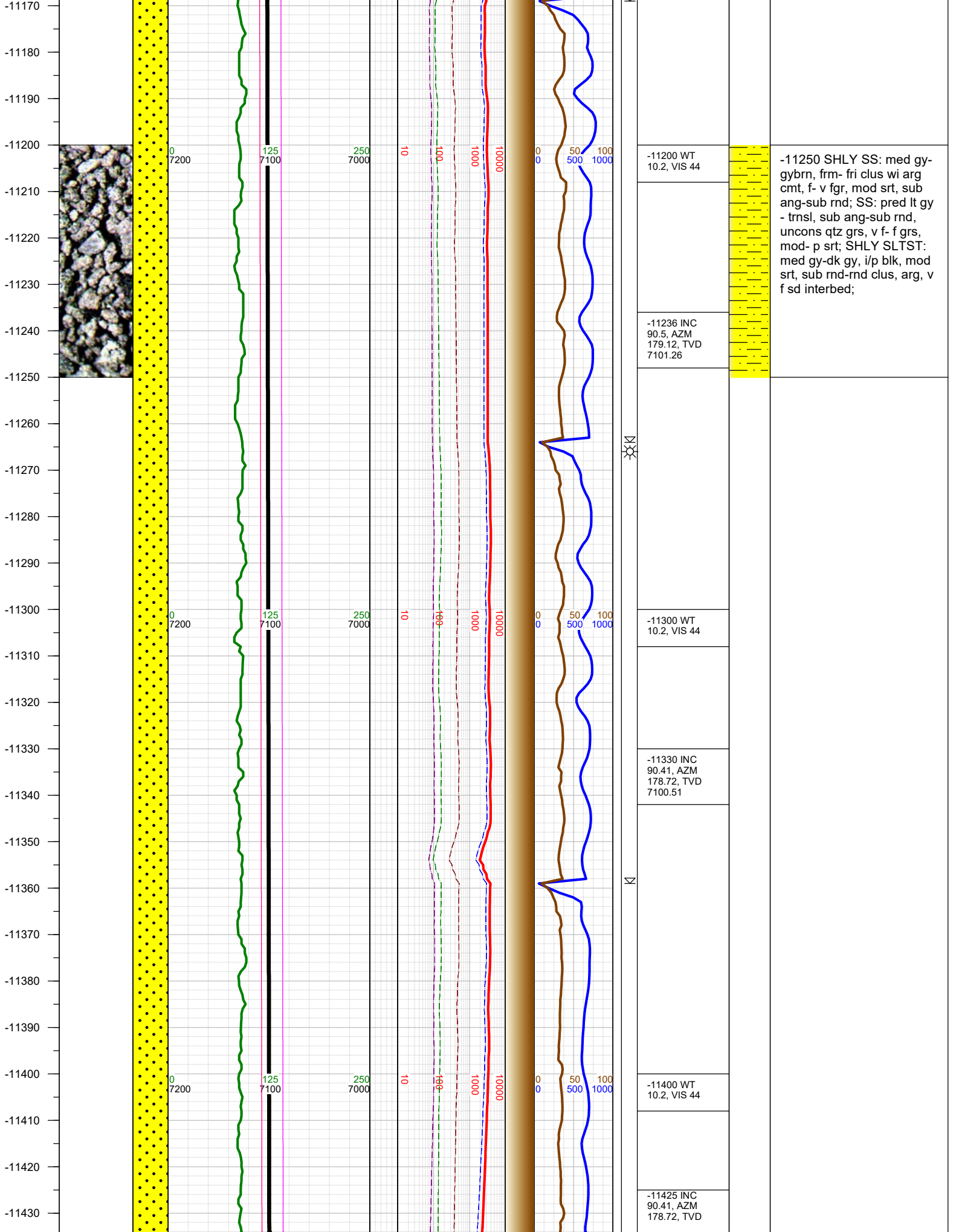




-10500 SHLY SS: med gy-gybrn, frm- fri clus wi arg cmt, f- v fgr, mod srt, sub ang-sub rnd; SS: pred lt gy - trnsf, sub ang-sub rnd, unconsl qtz grs, v f- f grs, mod- p srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg, v f sd interbed;







-11200 WT
10.2, VIS 44

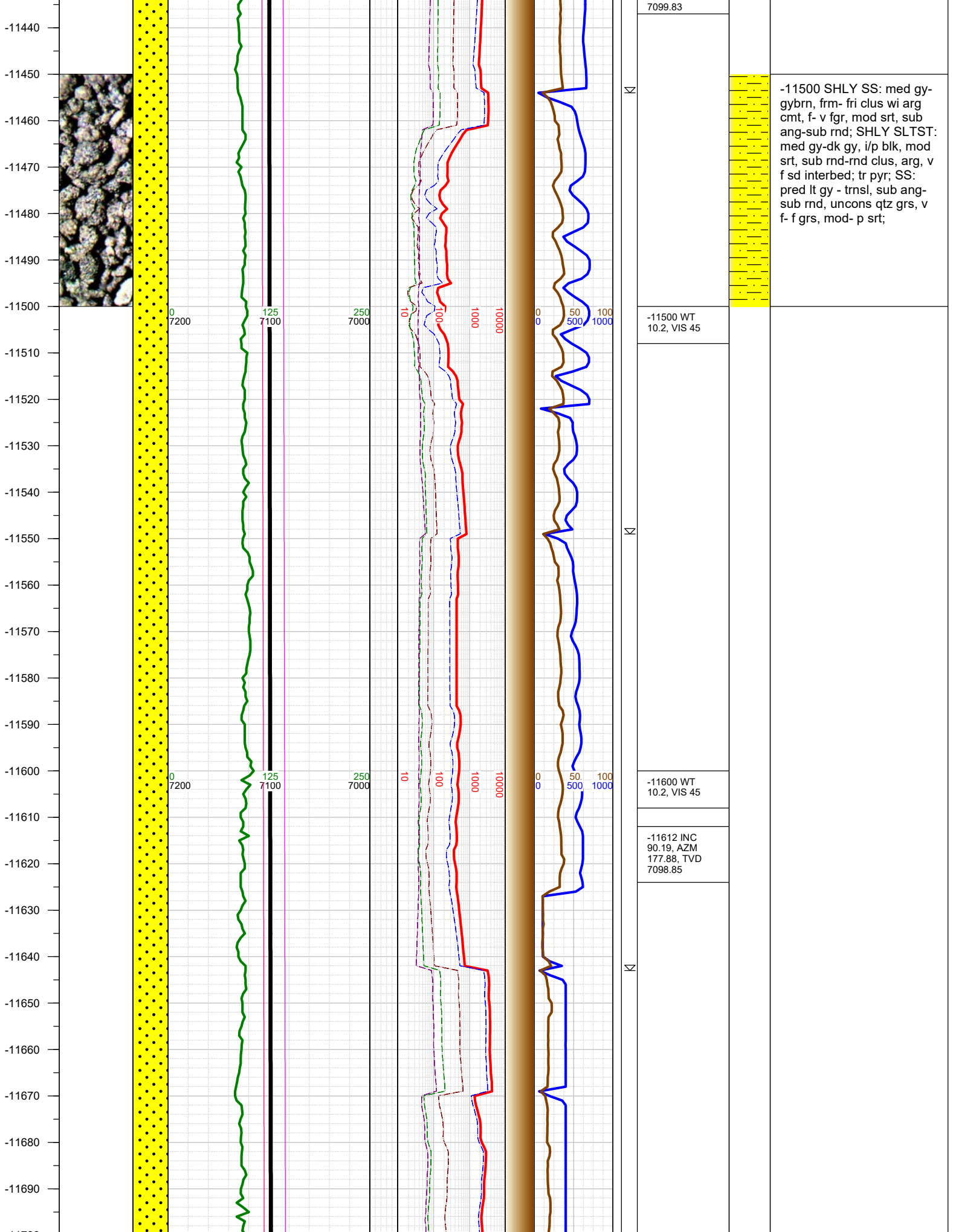
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179.12, TVD
7101.26

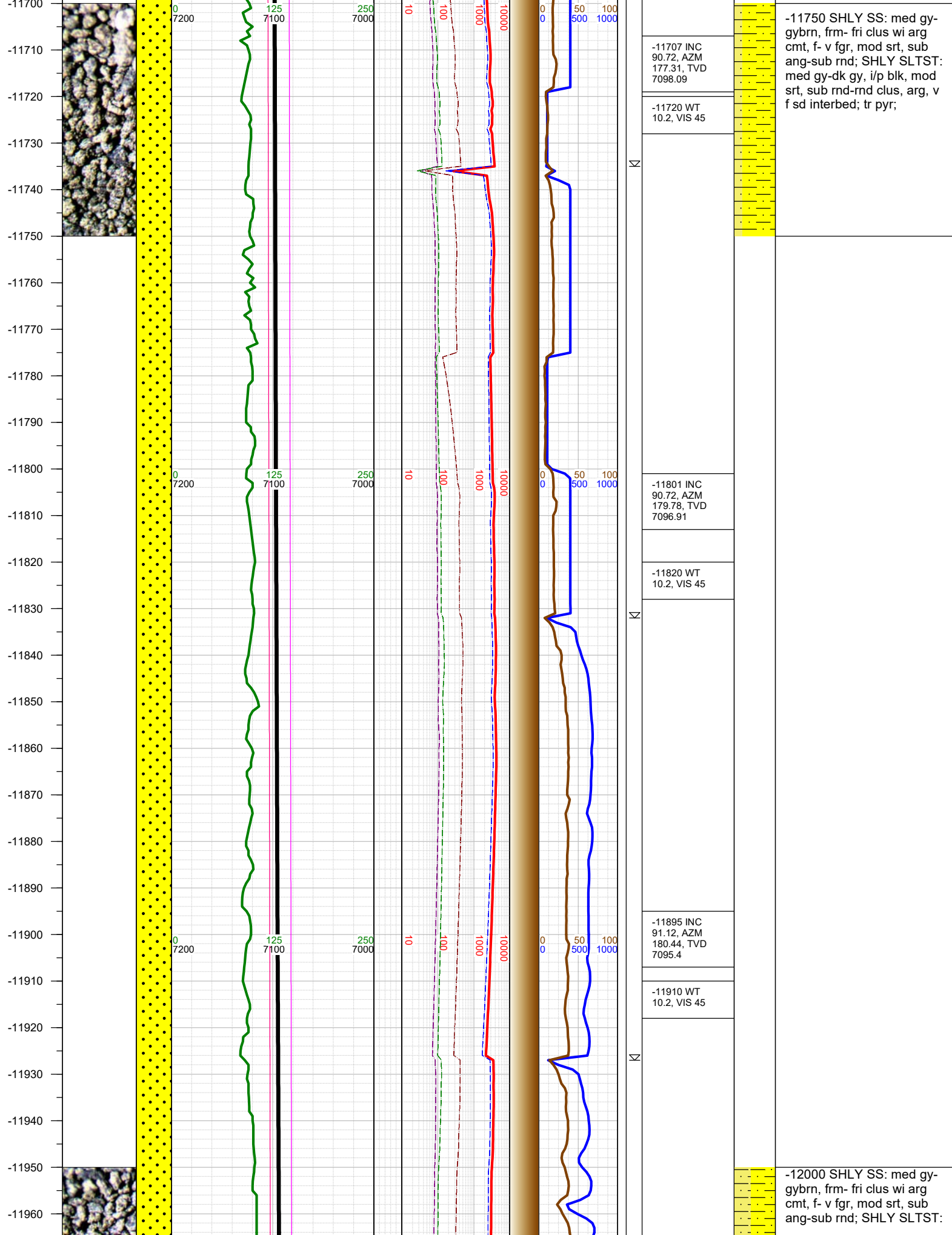
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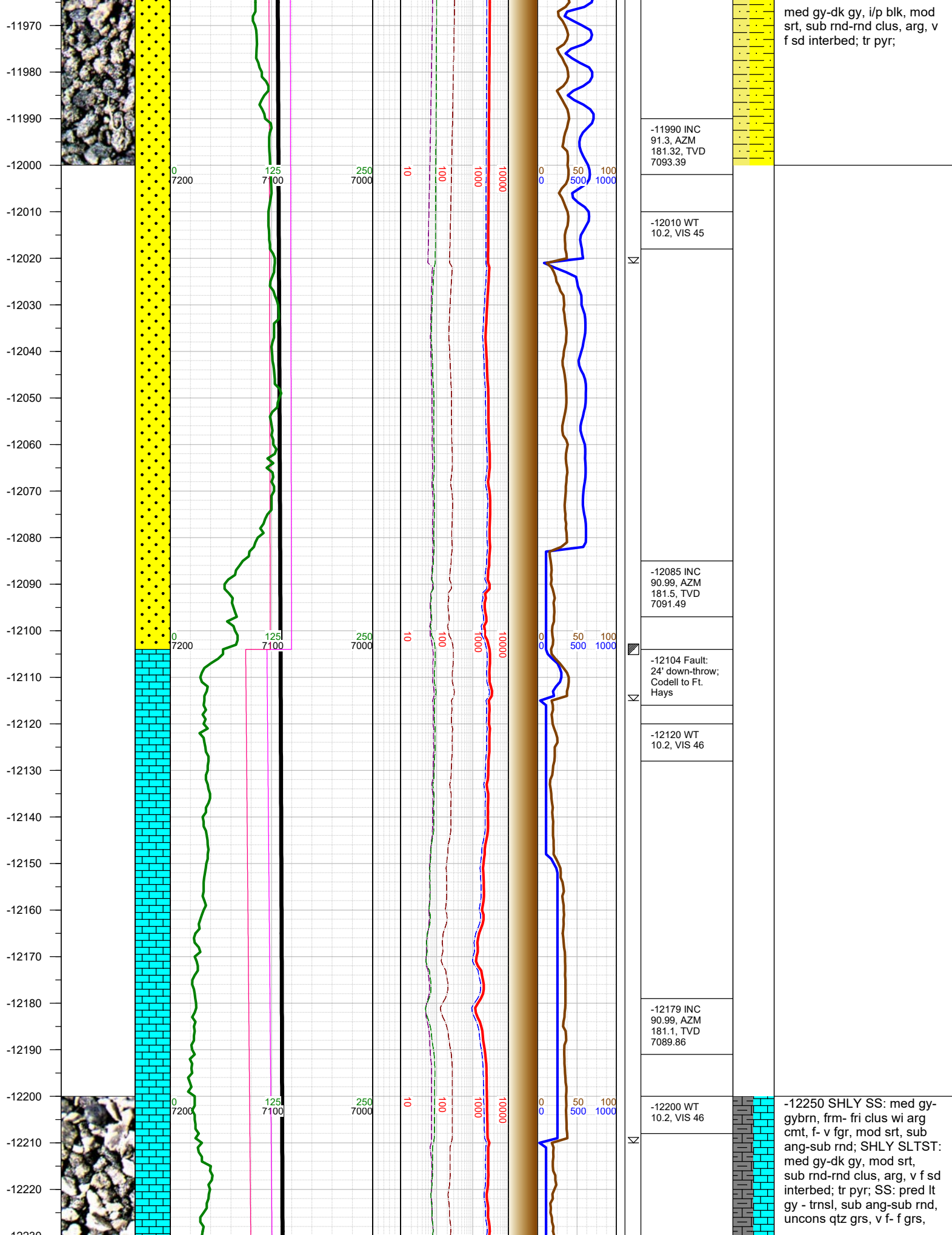
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178.72, TVD
7100.51

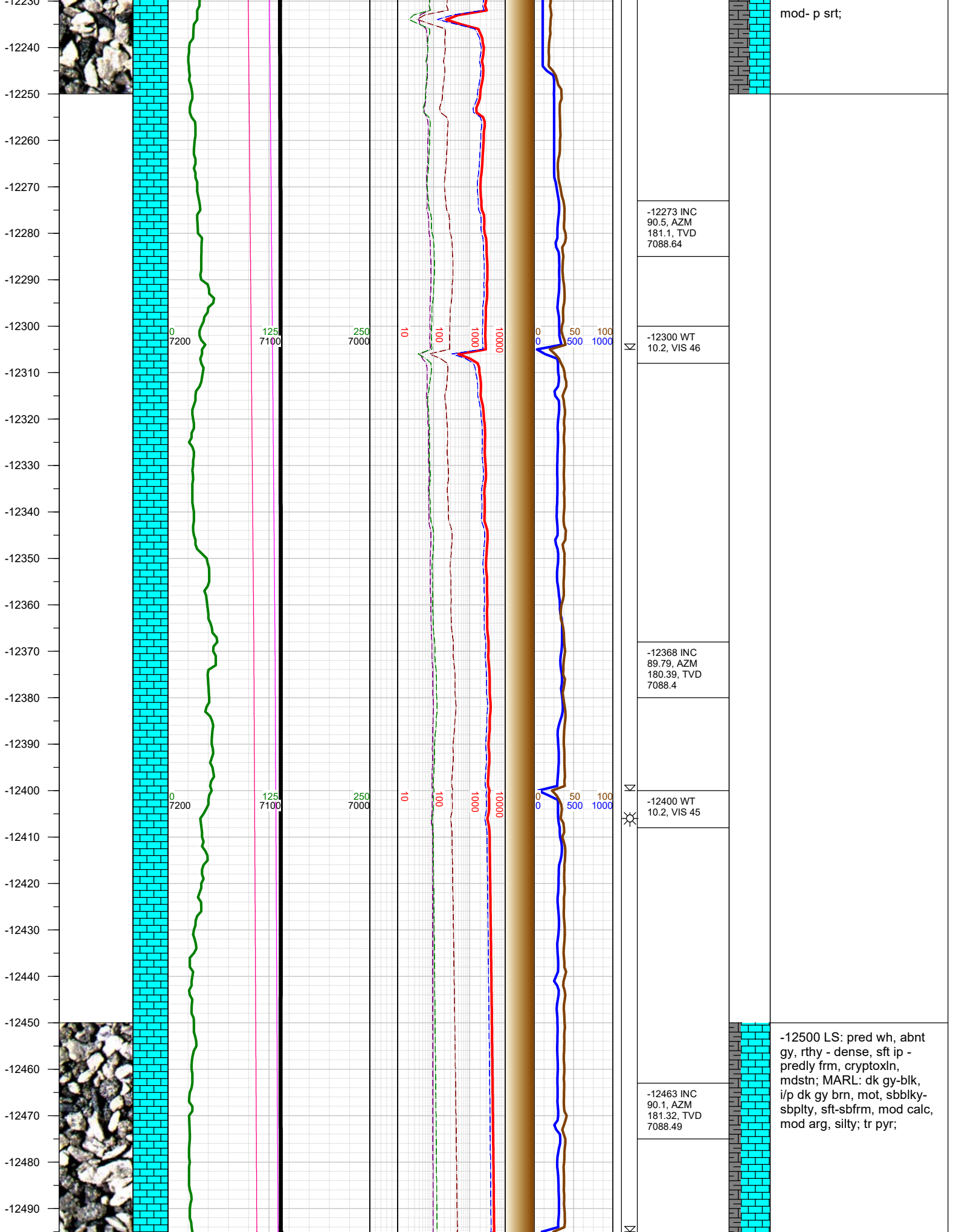
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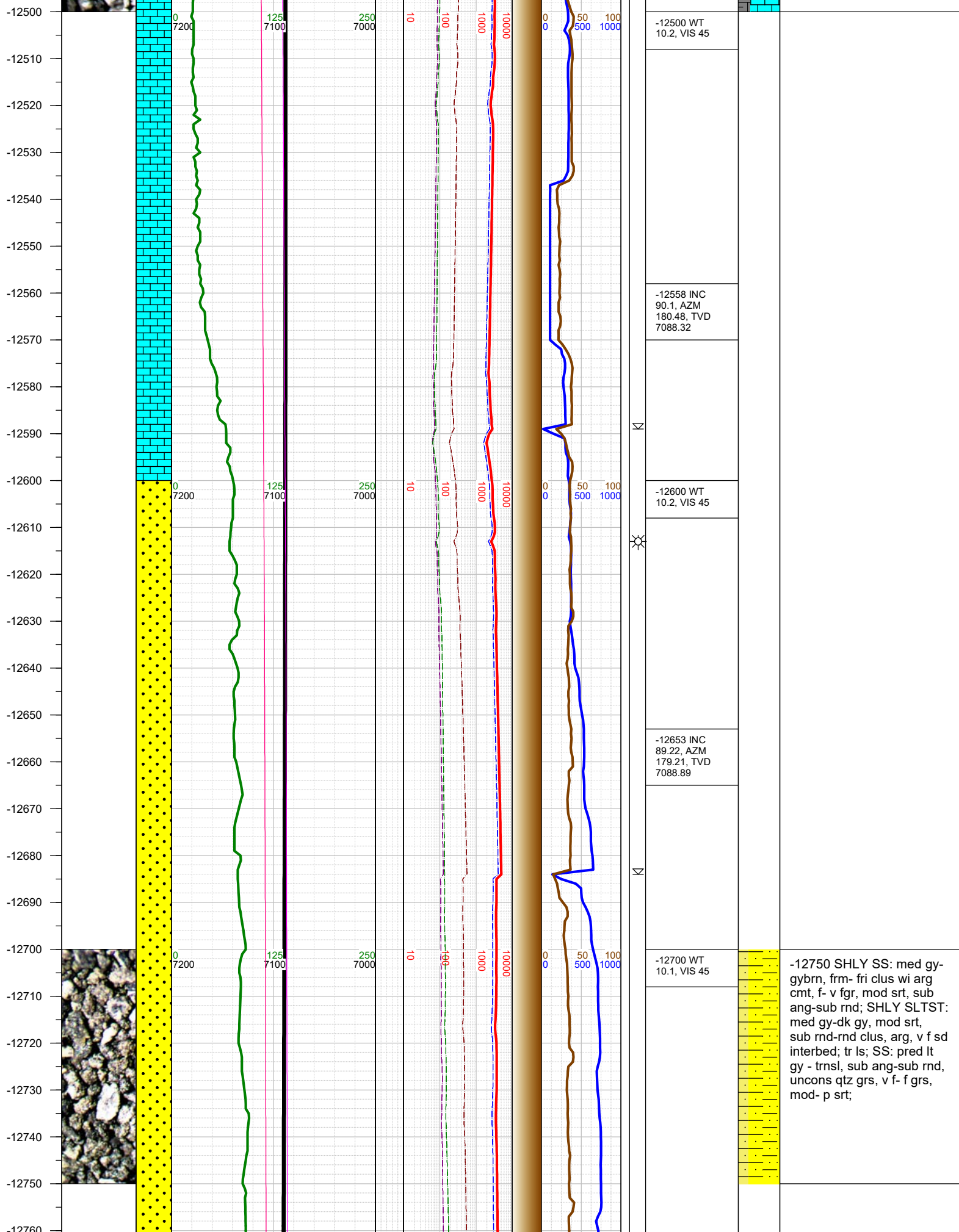
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178.72, TVD

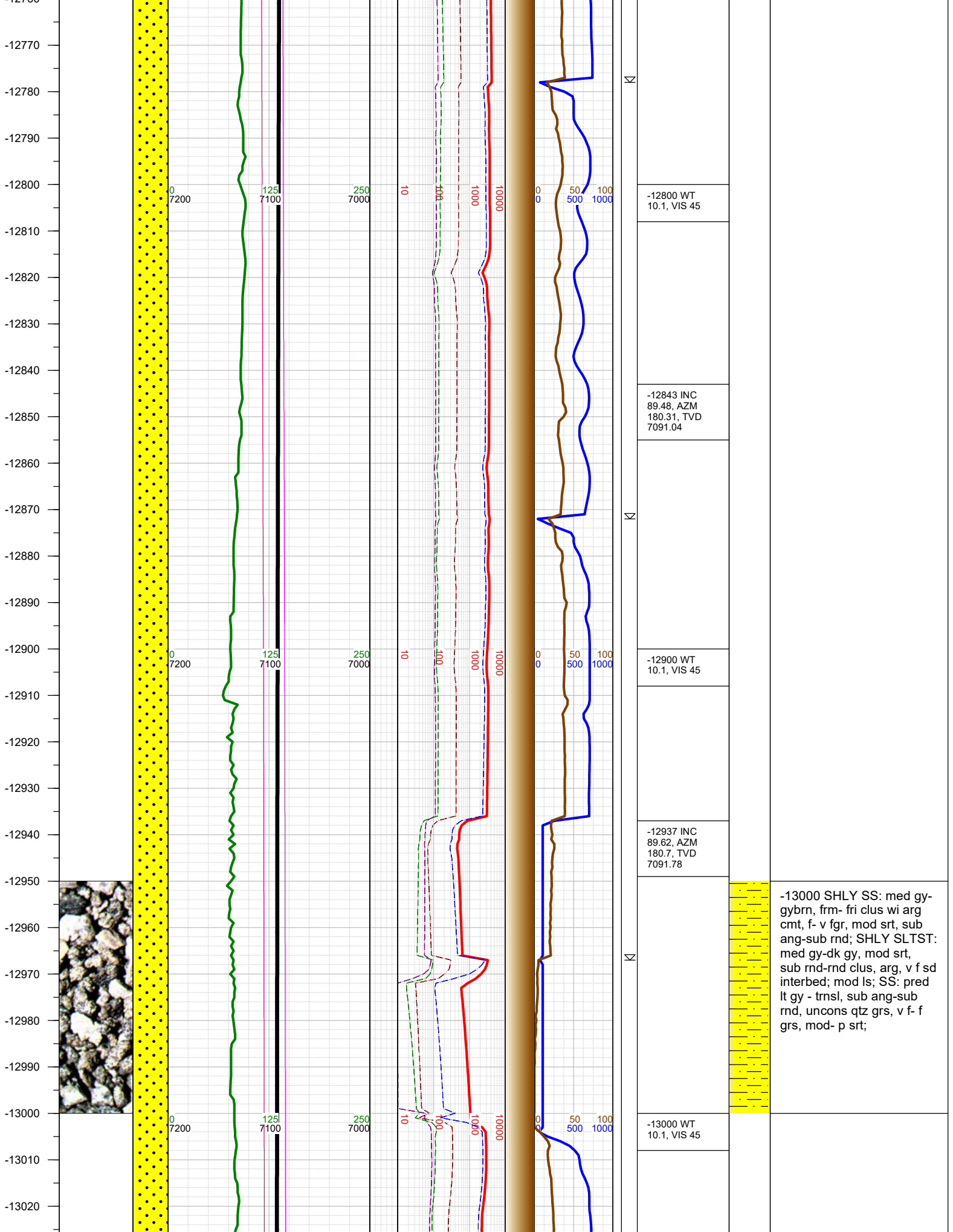




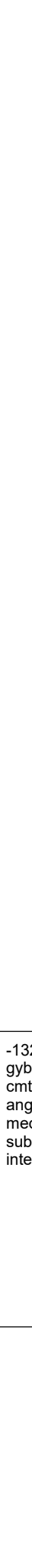
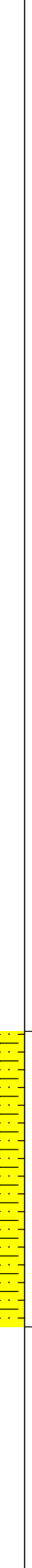
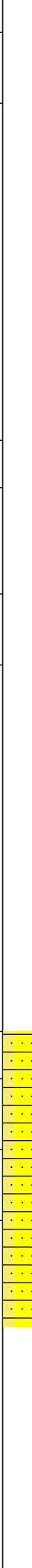
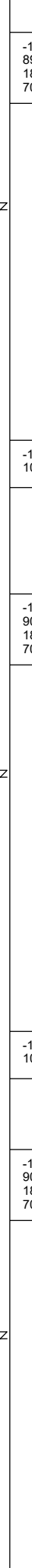
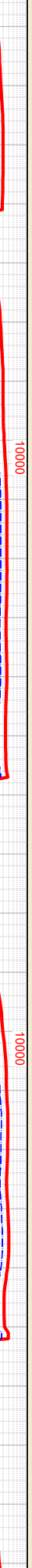
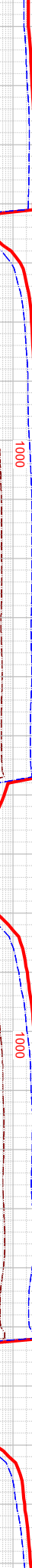
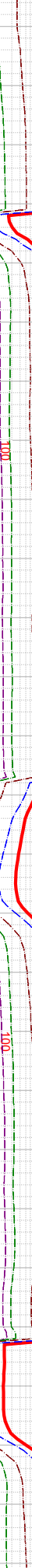
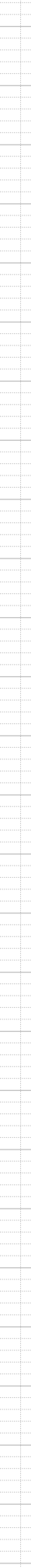
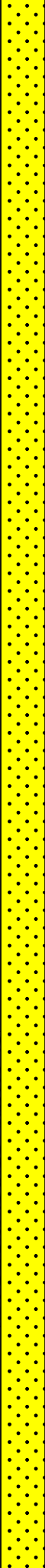
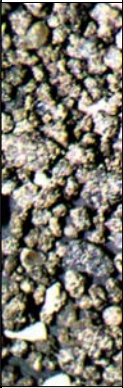








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-13031 INC
89.88, AZM
180.7, TVD
7092.19

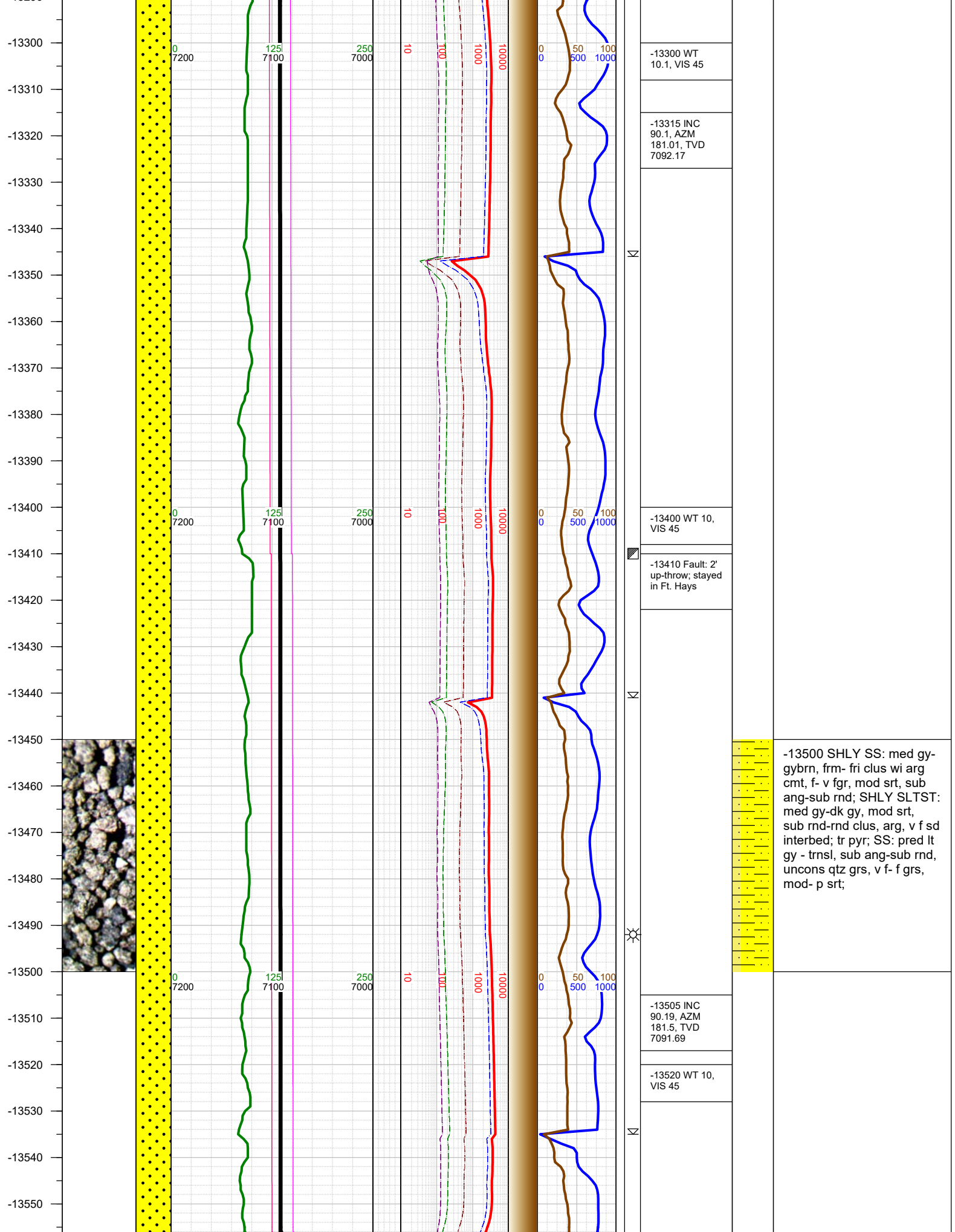
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181.1, TVD
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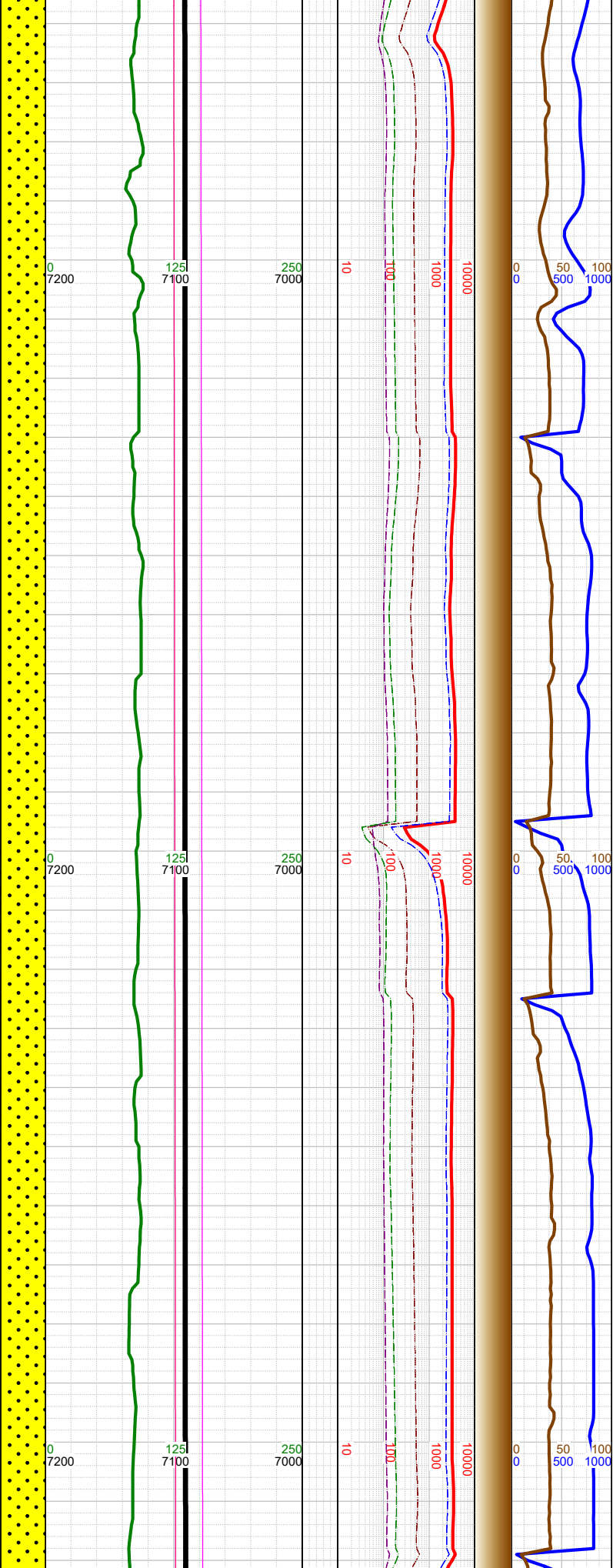
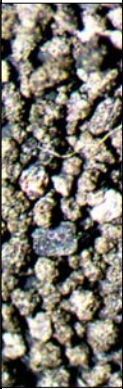
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10.1, VIS 45

-13220 INC
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180.62, TVD
7092.26

-13250 SHLY SS: med gy-
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cmt, f- v fgr, mod srt, sub
ang-sub rnd; SHLY SLTST:
med gy-dk gy, mod srt,
sub rnd-rnd clus, arg, v f sd
interbed;



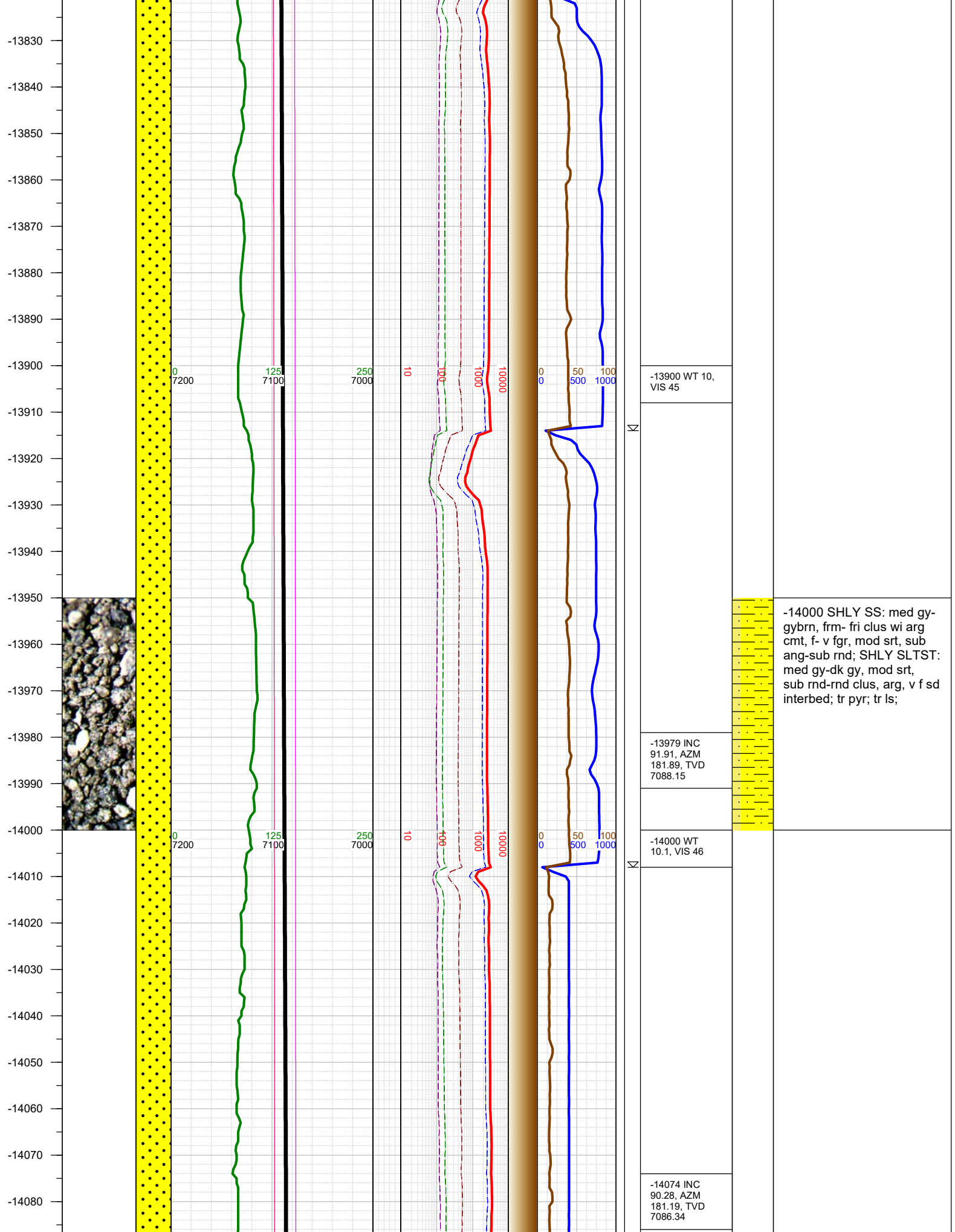
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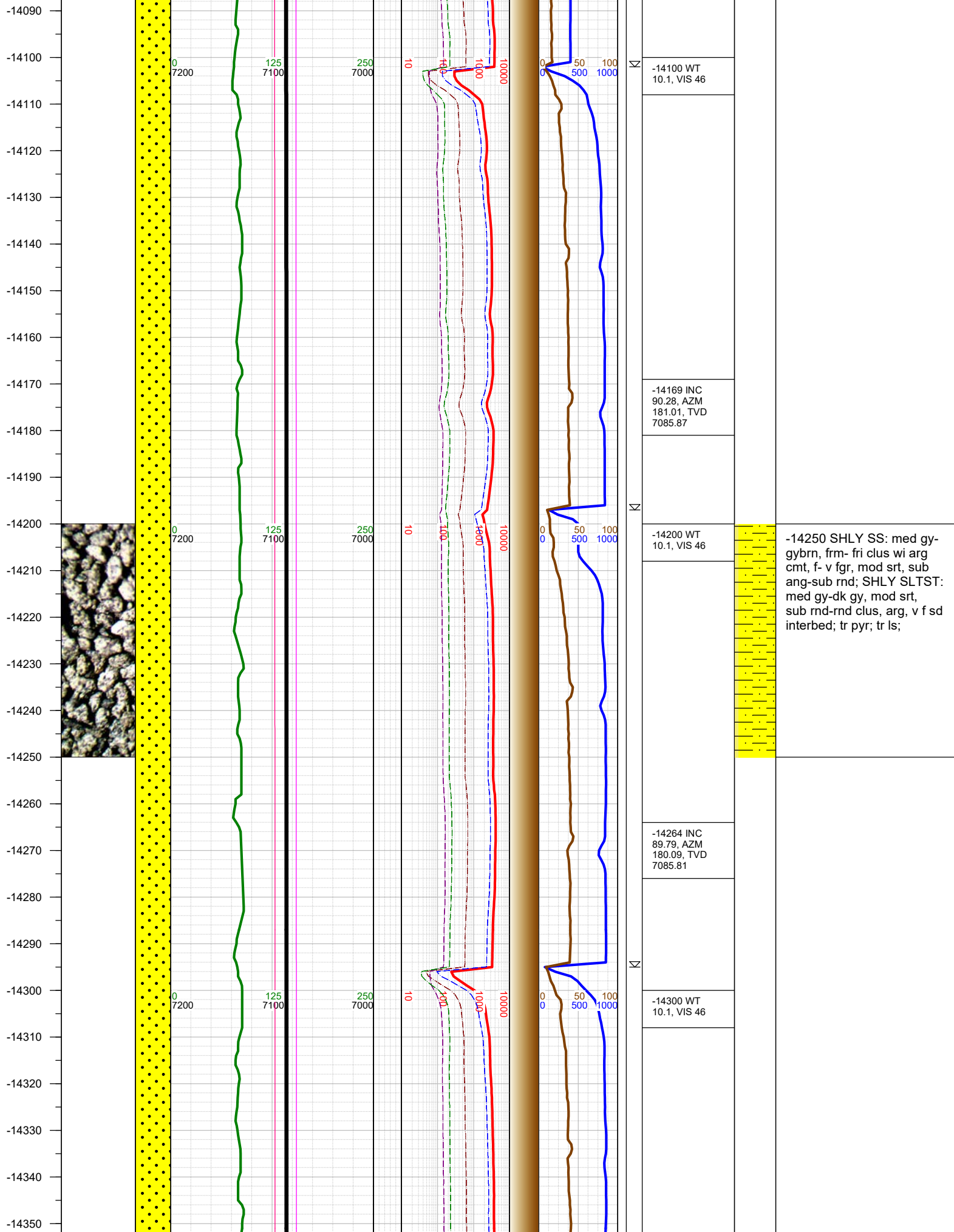


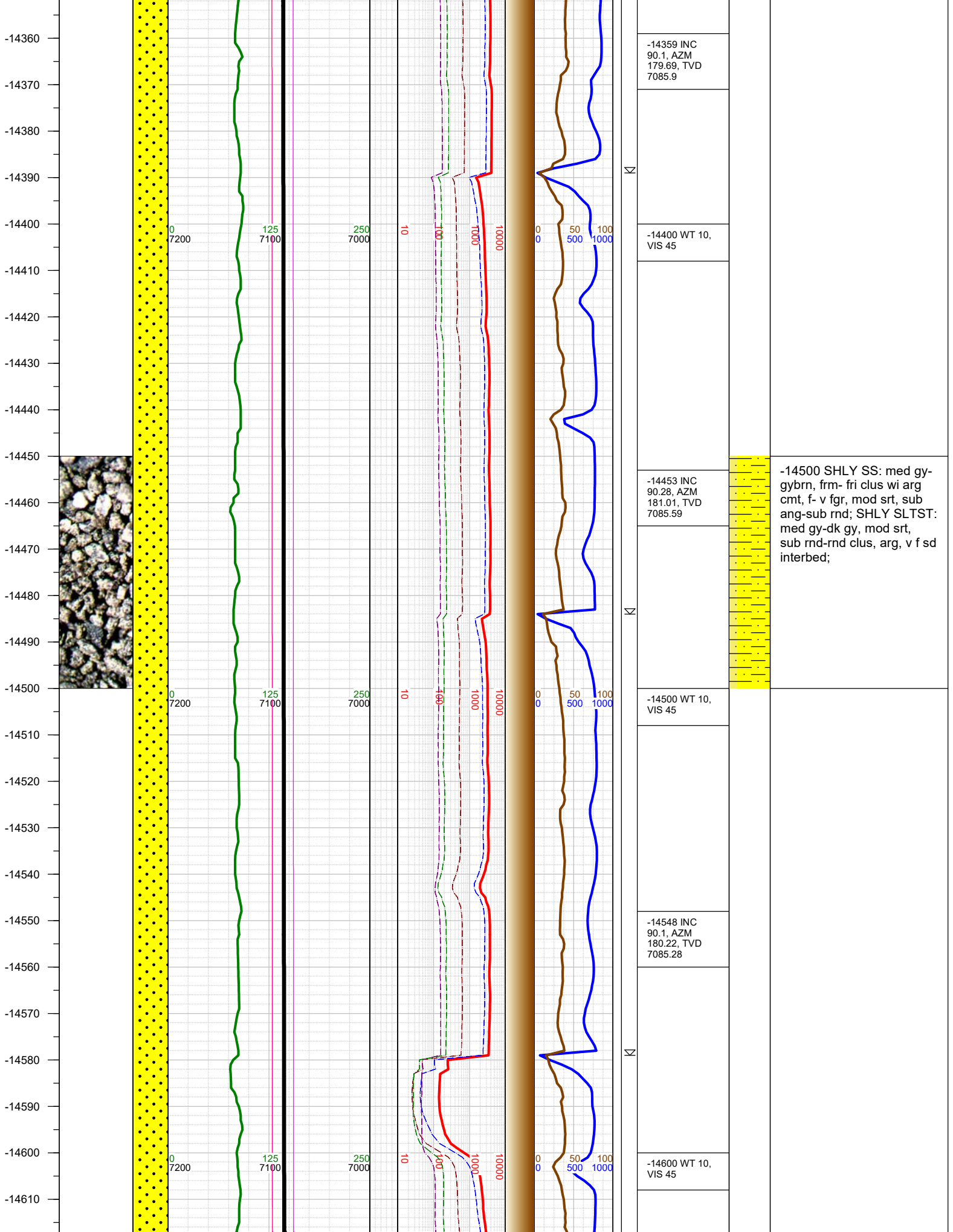
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	-13620 WT 10, VIS 45
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	-13710 WT 10, VIS 45
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	-13810 WT 10, VIS 45
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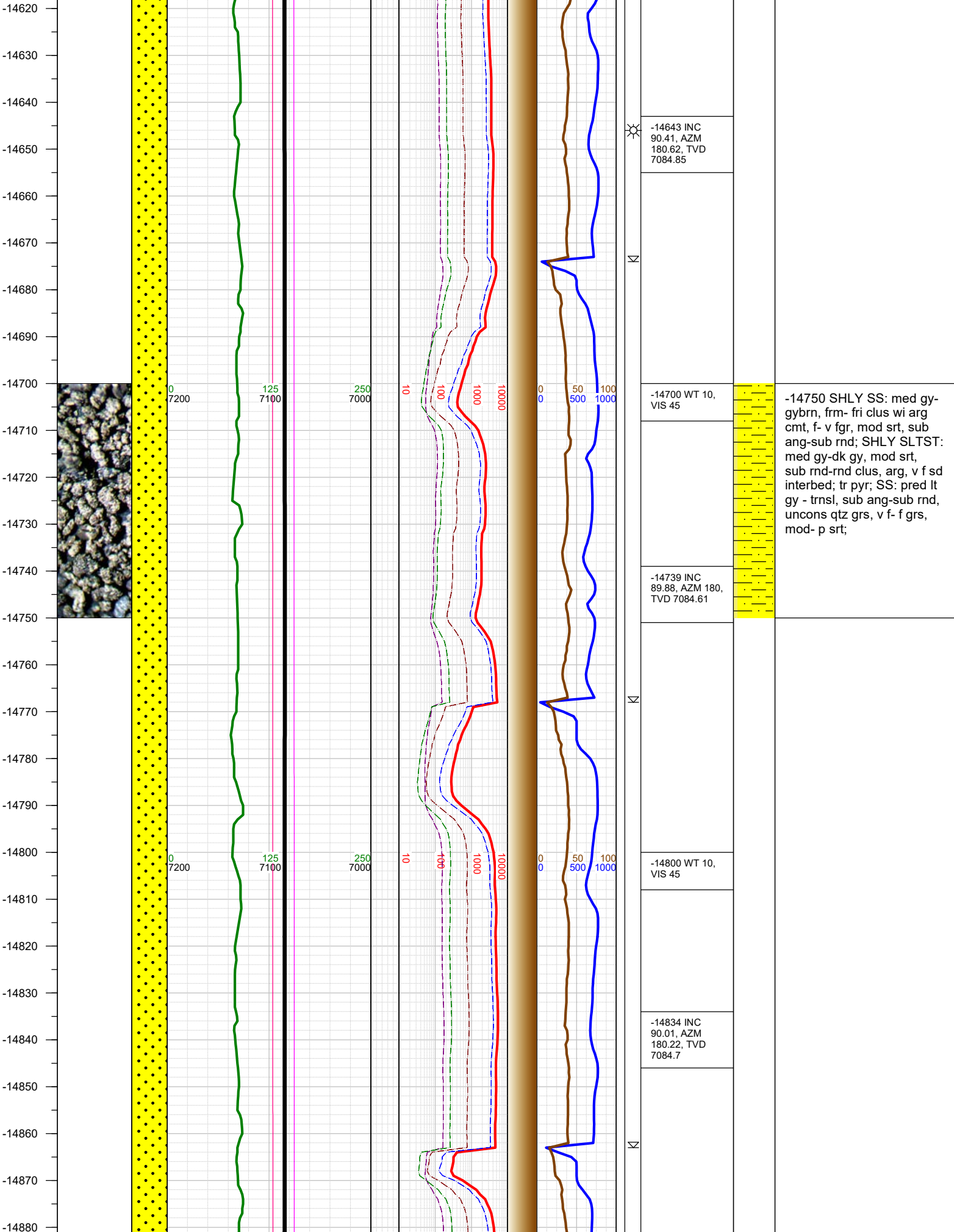
-13750 SHLY SS: med gy-
gybrn, frm- fri clus wi arg
cmt, f- v fgr, mod srt, sub
ang-sub rnd; SHLY SLTST:
med gy-dk gy, mod srt,
sub rnd-rnd clus, arg, v f sd
interbed; tr pyr; tr ls;



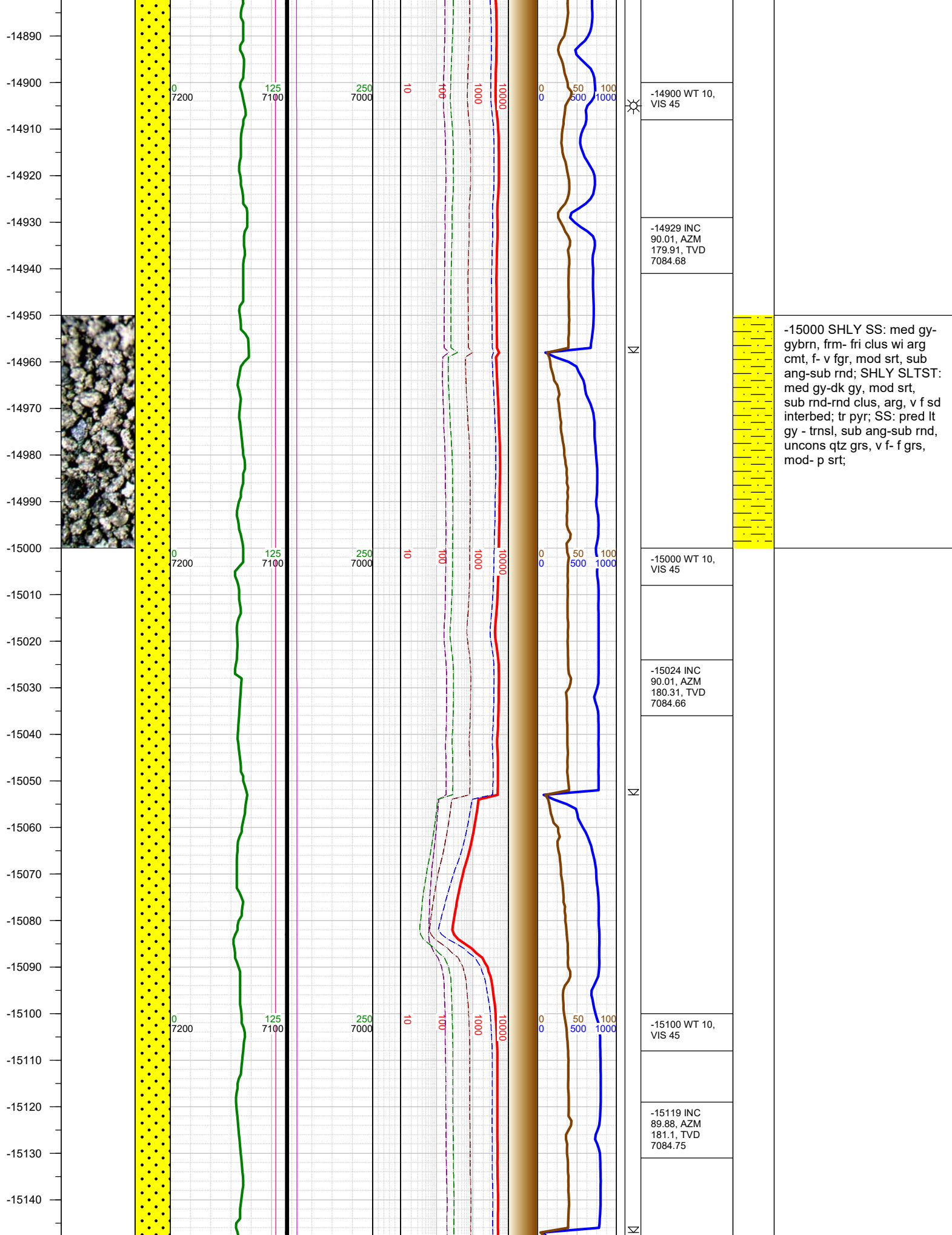


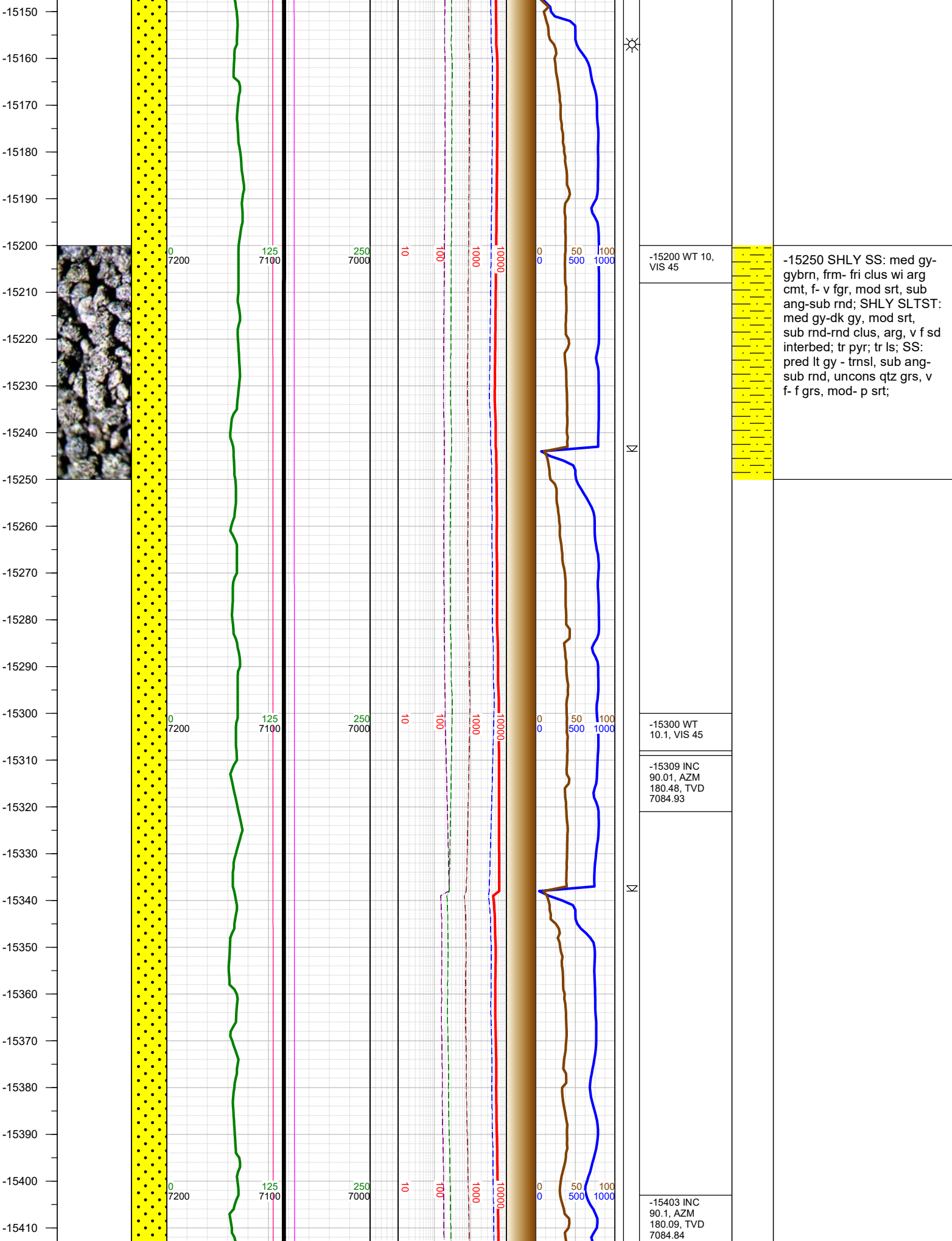


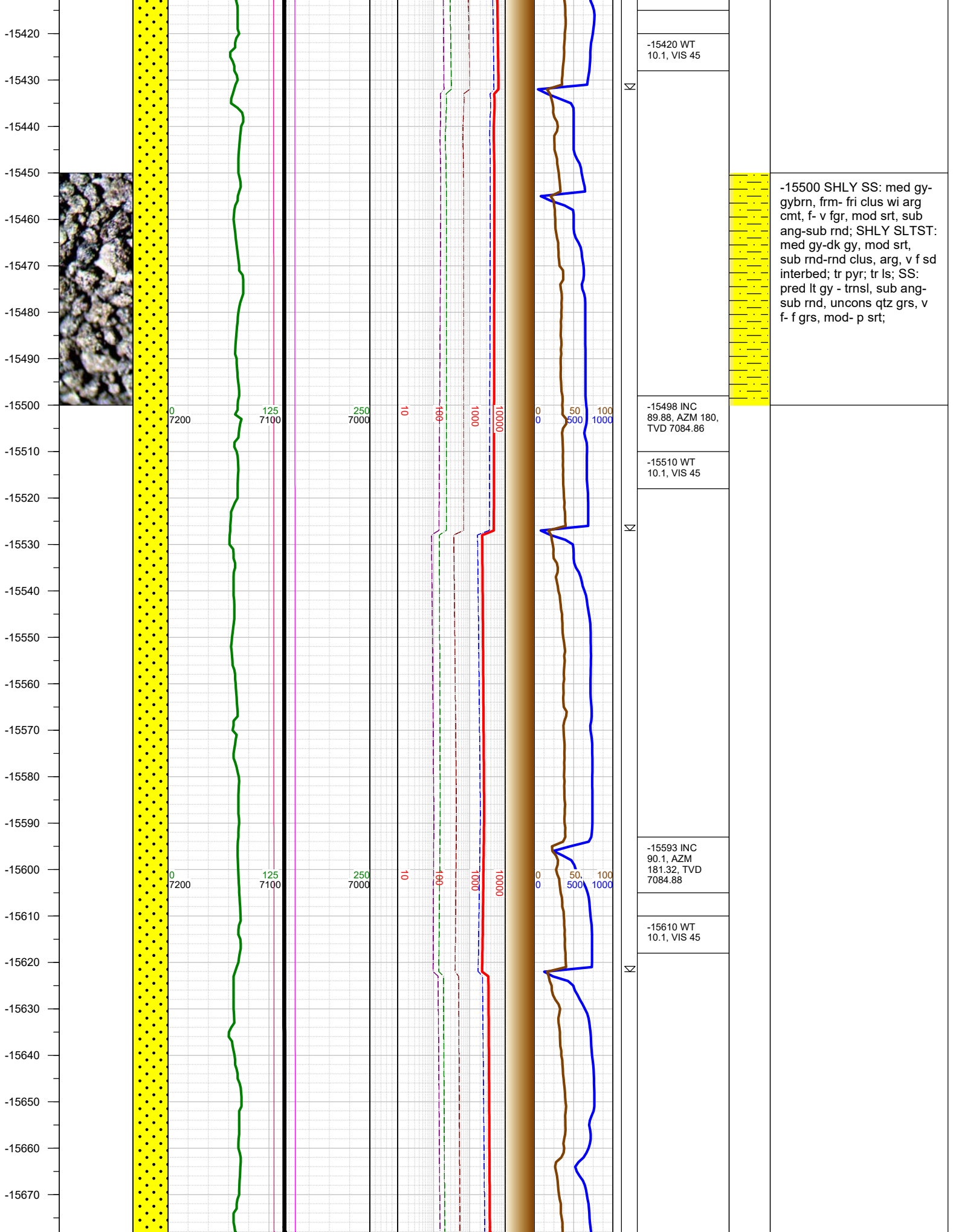
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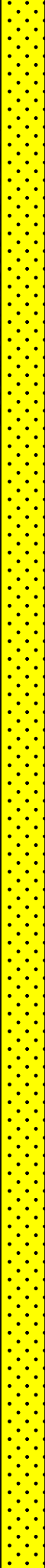
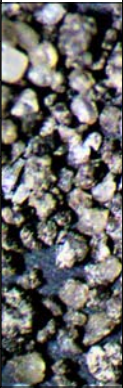
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-15687 INC
90.01, AZM 180,
TVD 7084.78

-15700 WT 10,
VIS 45

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-15782 INC
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180.62, TVD
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-15800 WT 10,
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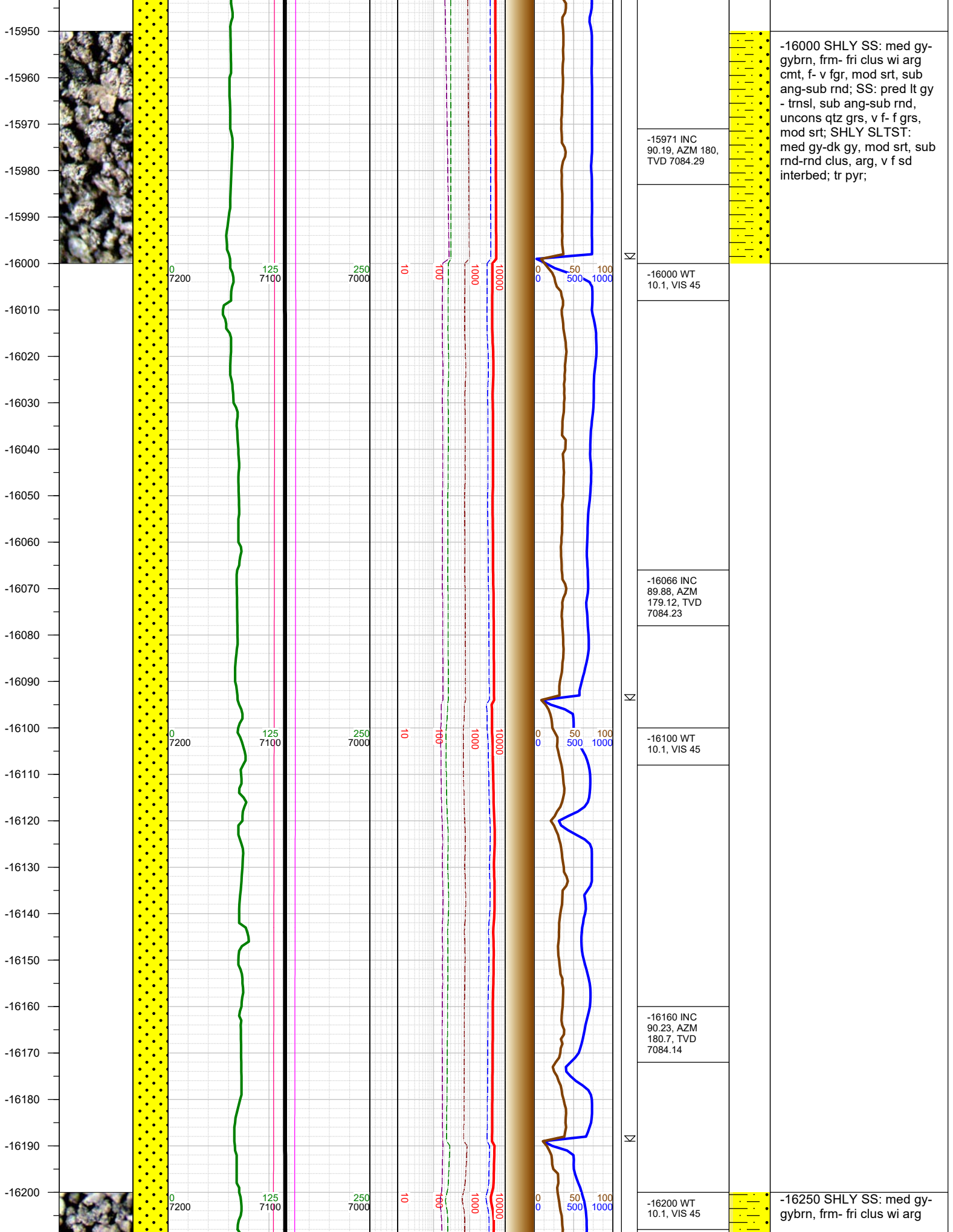
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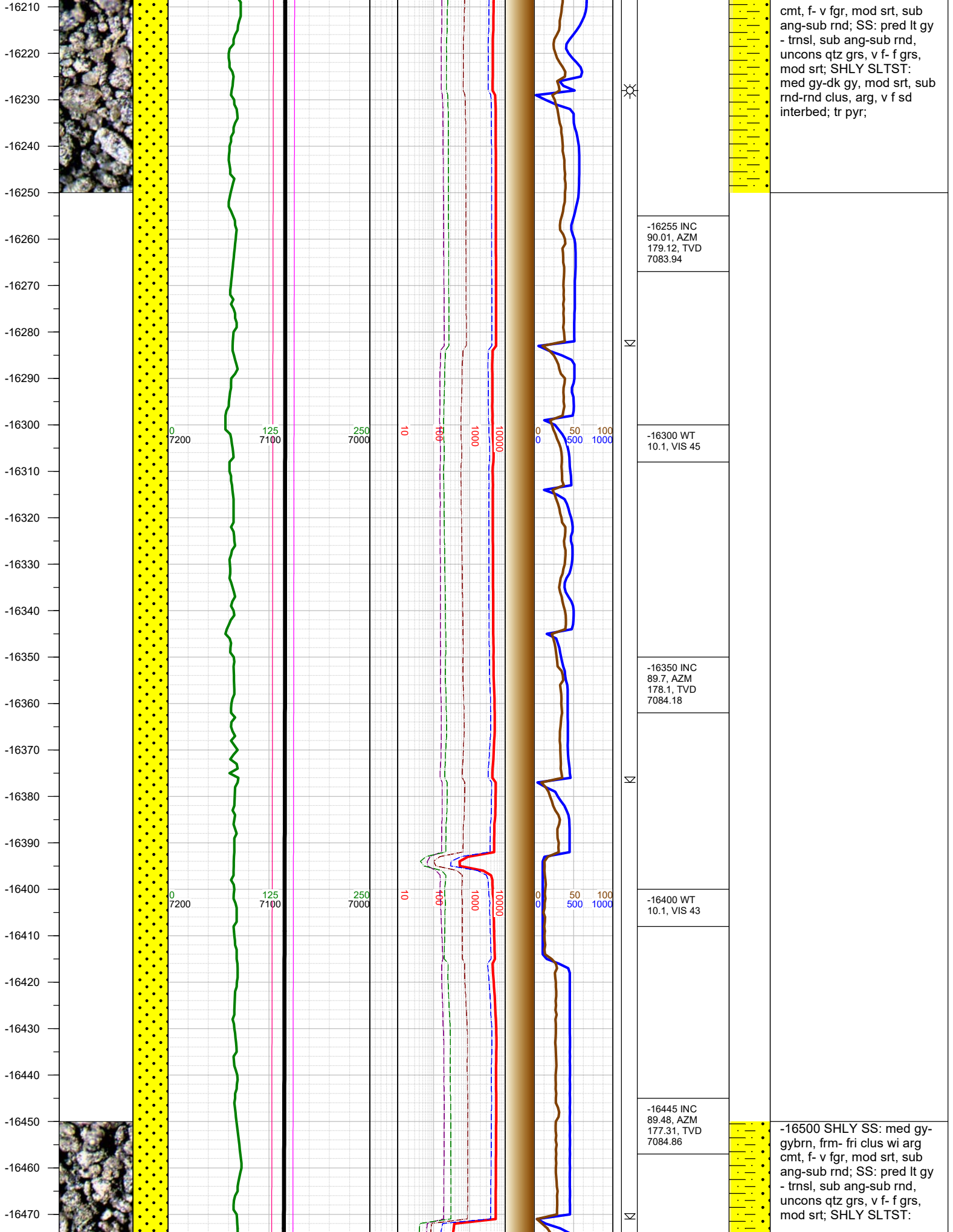
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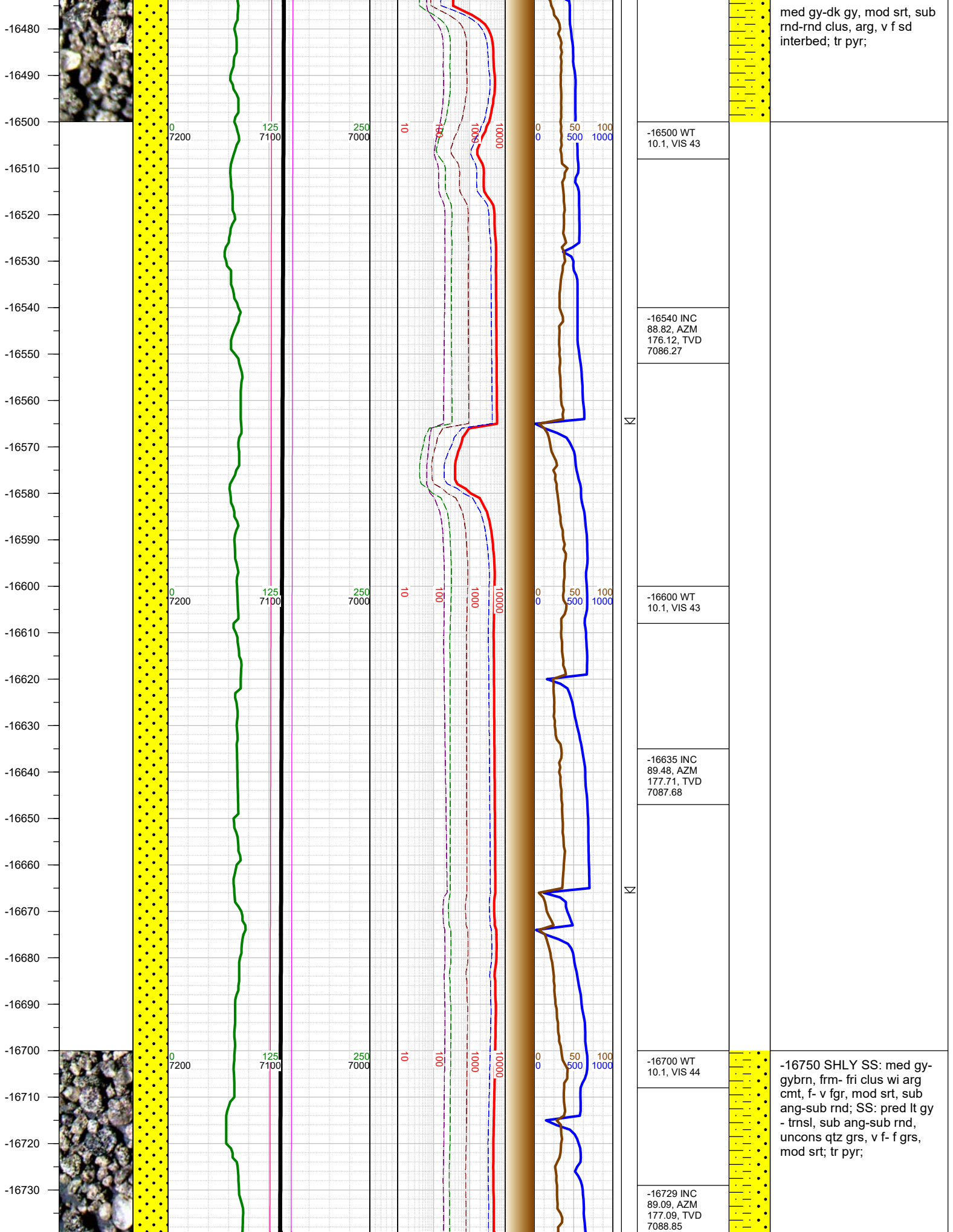
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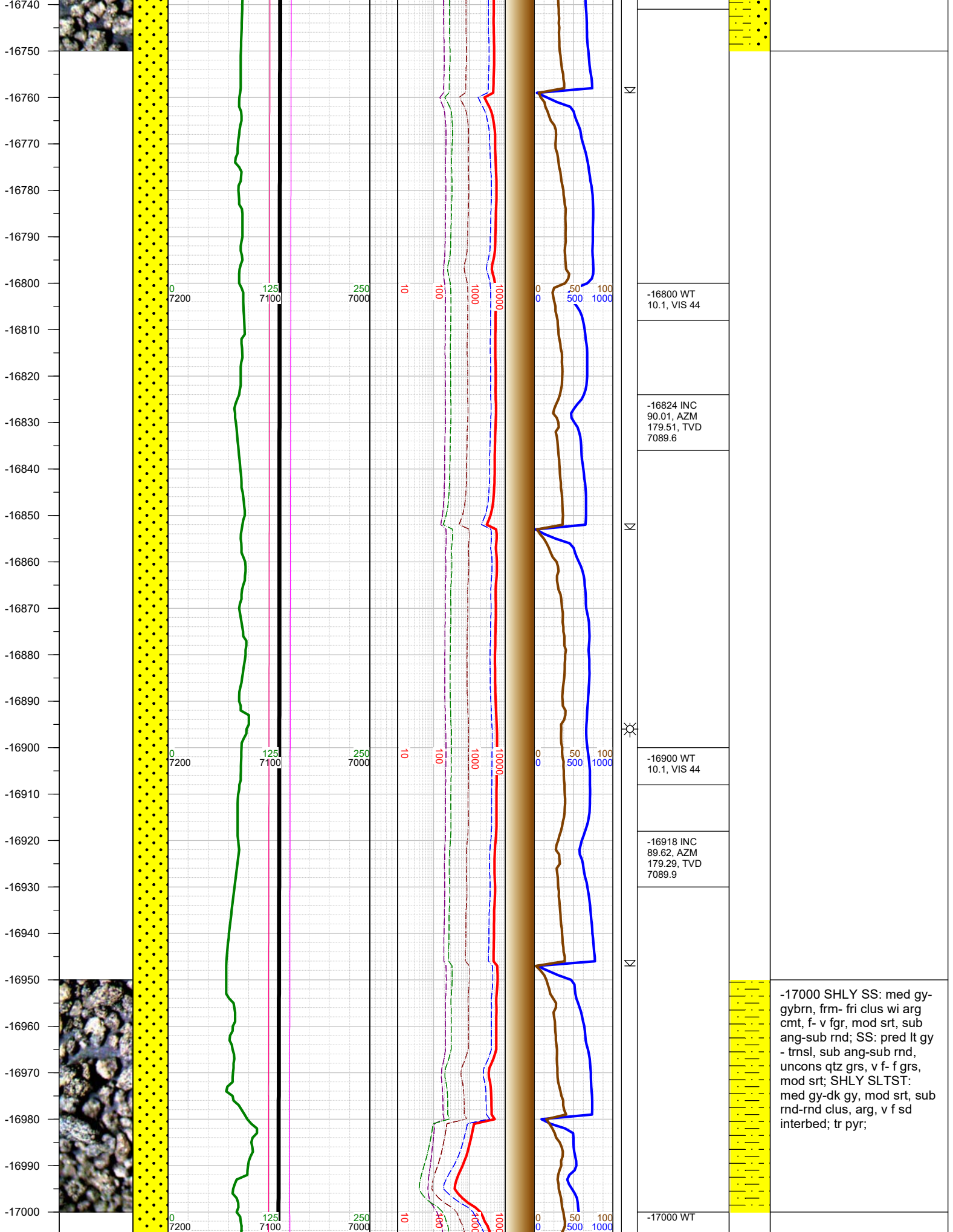


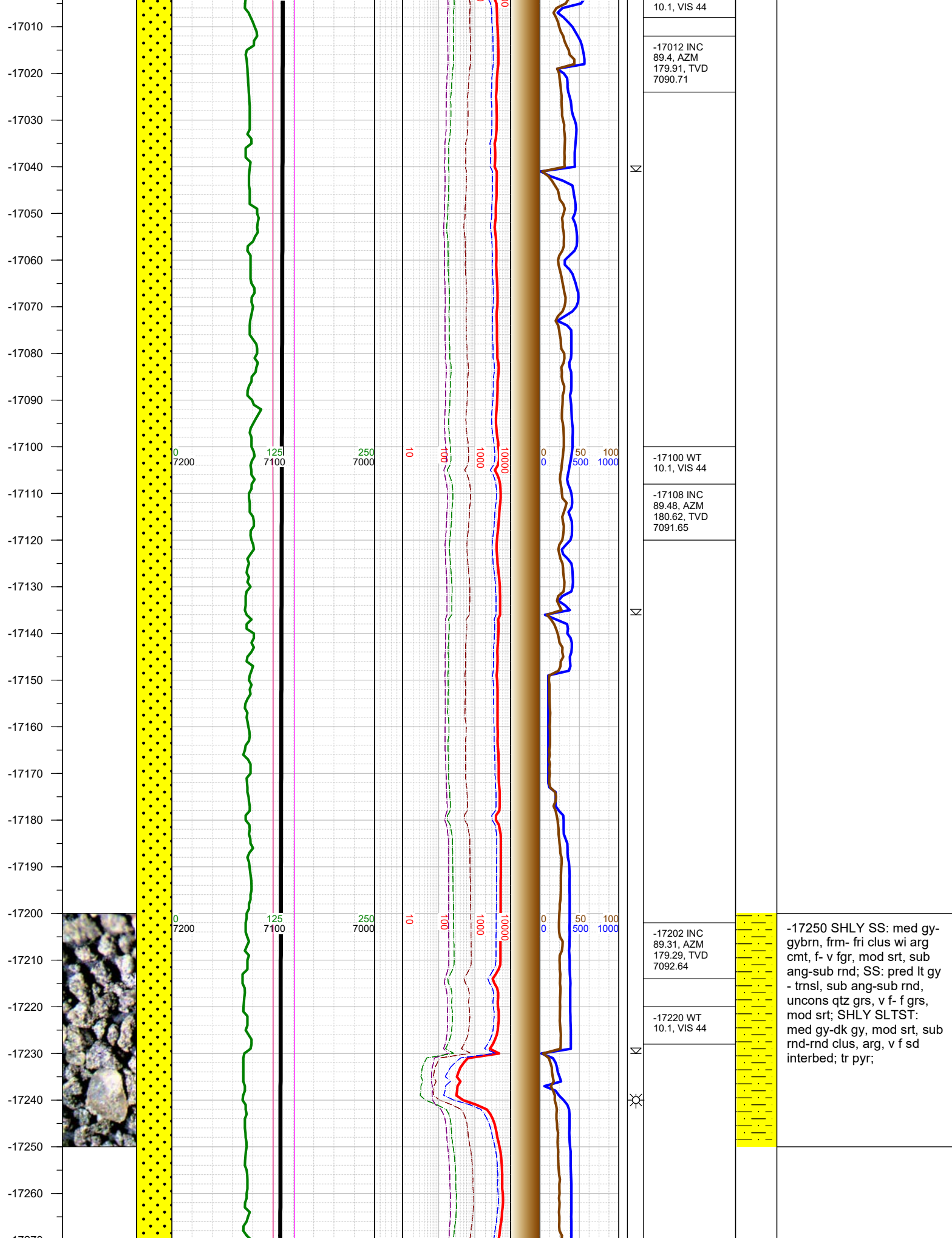
-15750 SHLY SS: med gy-
gybrn, frm- fri clus wi arg
cmt, f- v fgr, mod srt, sub
ang-sub rnd; SS: pred lt gy
- trnsl, sub ang-sub rnd,
uncons qtz grs, v f- f grs,
mod srt; SHLY SLTST:
med gy-dk gy, mod srt, sub
rnd-rnd clus, arg, v f sd
interbed; tr pyr;



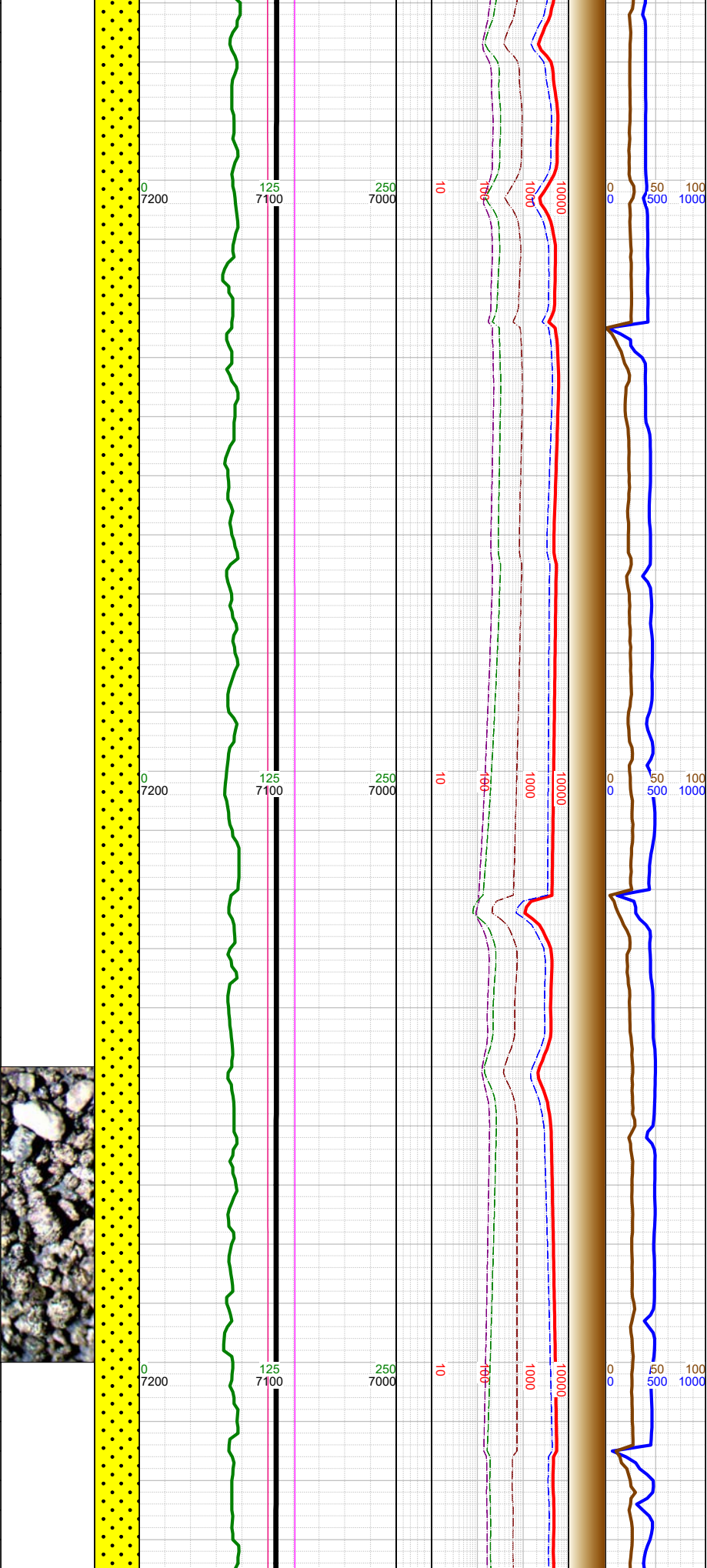








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-17297 INC
89.88, AZM
180.7, TVD
7093.31

-17310 WT
10.1, VIS 44

-17392 INC
90.01, AZM 180,
TVD 7093.4

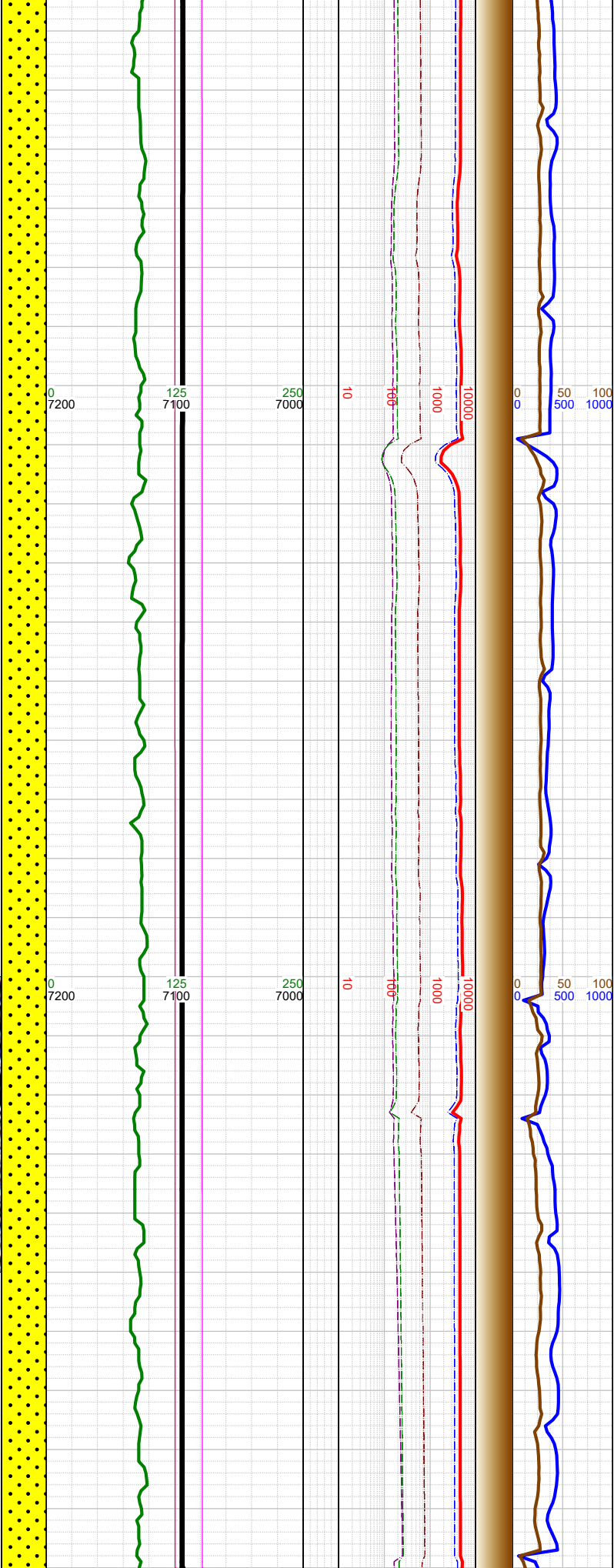
-17410 WT
10.1, VIS 44

-17487 INC
89.88, AZM
178.41, TVD
7093.49

-17500 WT
10.1, VIS 44

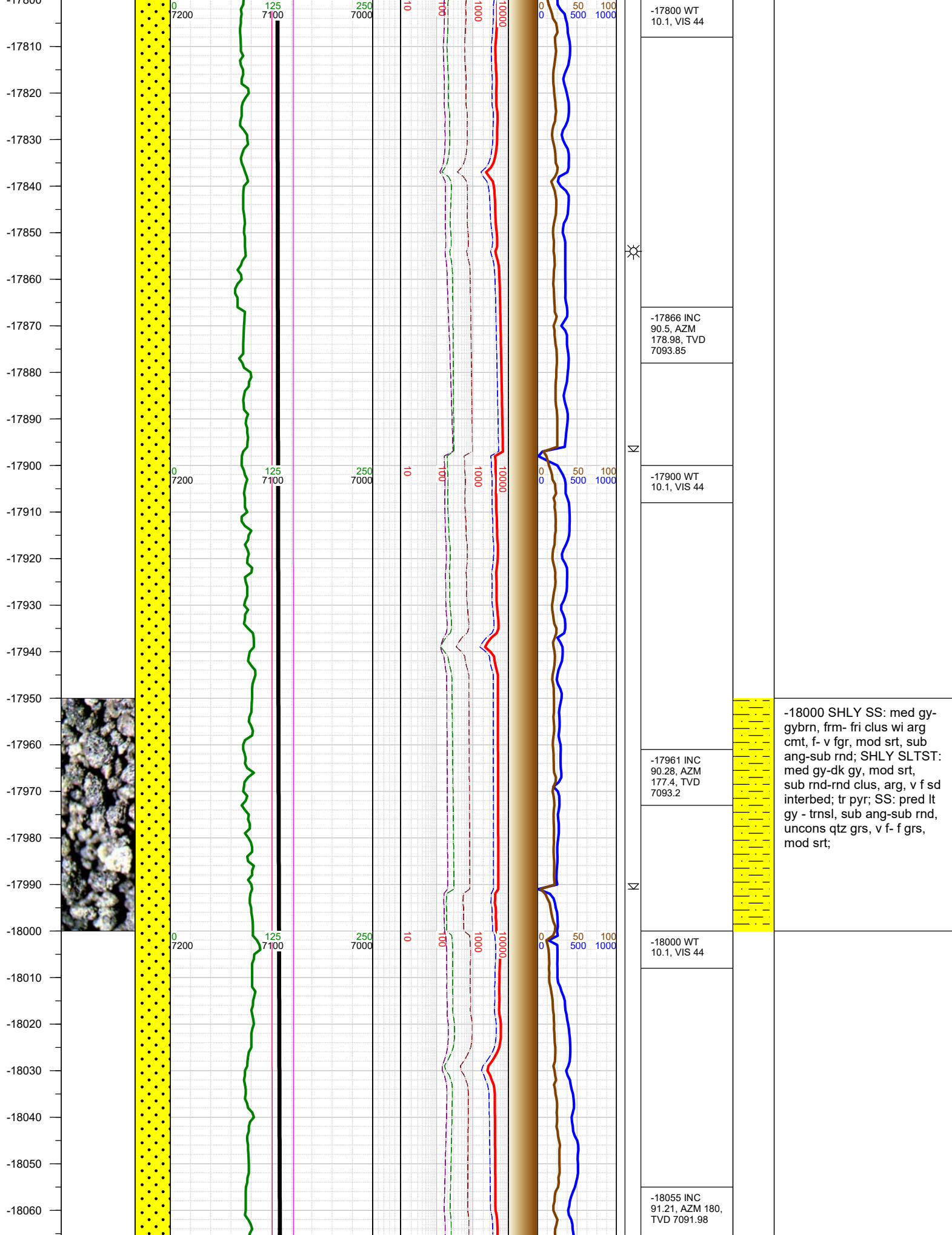
-17500 SHLY SS: med gy-
gybrn, frm- fri clus wi arg
cmt, f- v fgr, mod srt, sub
ang-sub rnd; SS: pred lt gy
- trnsl, sub ang-sub rnd,
uncons qtz grs, v f- f grs,
mod srt; SHLY SLTST:
med gy-dk gy, mod srt, sub
rnd-rnd clus, arg, v f sd
interbed; tr pyr;

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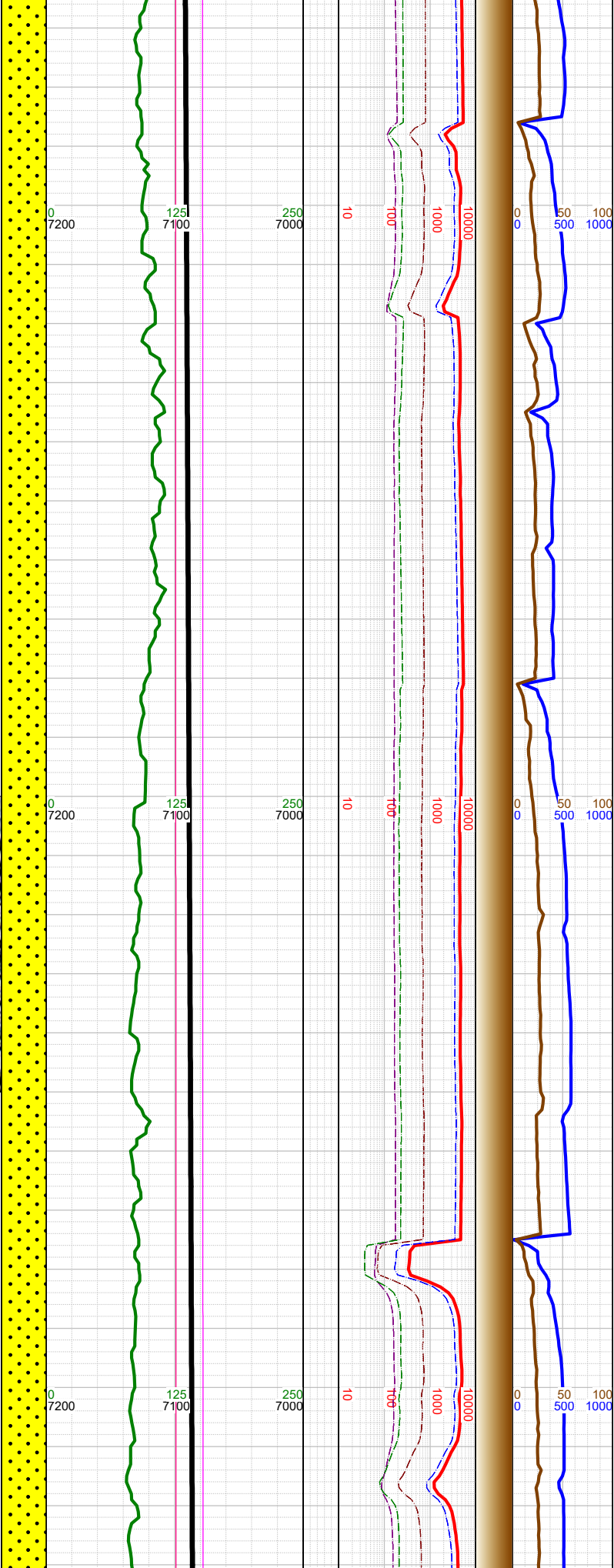


				-17582 INC 89.62, AZM 177.8, TVD 7093.91
				-17600 WT 10.1, VIS 43
⊠				
				-17677 INC 89.79, AZM 178.5, TVD 7094.4
				-17700 WT 10.1, VIS 43
⊠				-17720 0000 hrs on 8/8/2017
				-17772 INC 90.19, AZM 178.72, TVD 7094.41
⊠				

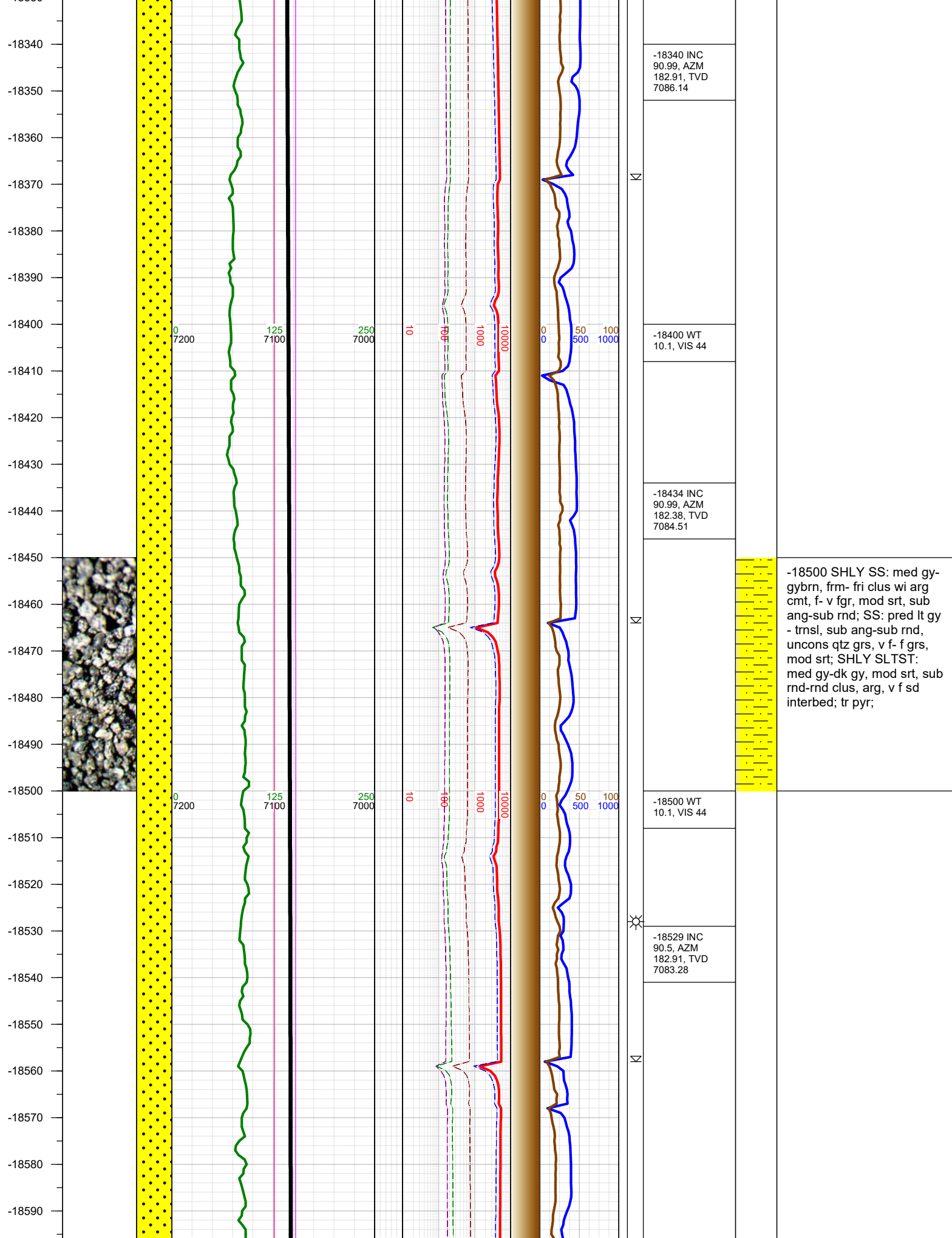
-17750 SHLY SS: med gy-gybrn, frm- fri clus wi arg cmt, f- v fgr, mod srt, sub ang-sub rnd; SS: pred lt gy - trnsl, sub ang-sub rnd, uncons qtz grs, v f- f grs, mod srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg, v f sd interbed; tr pyr;

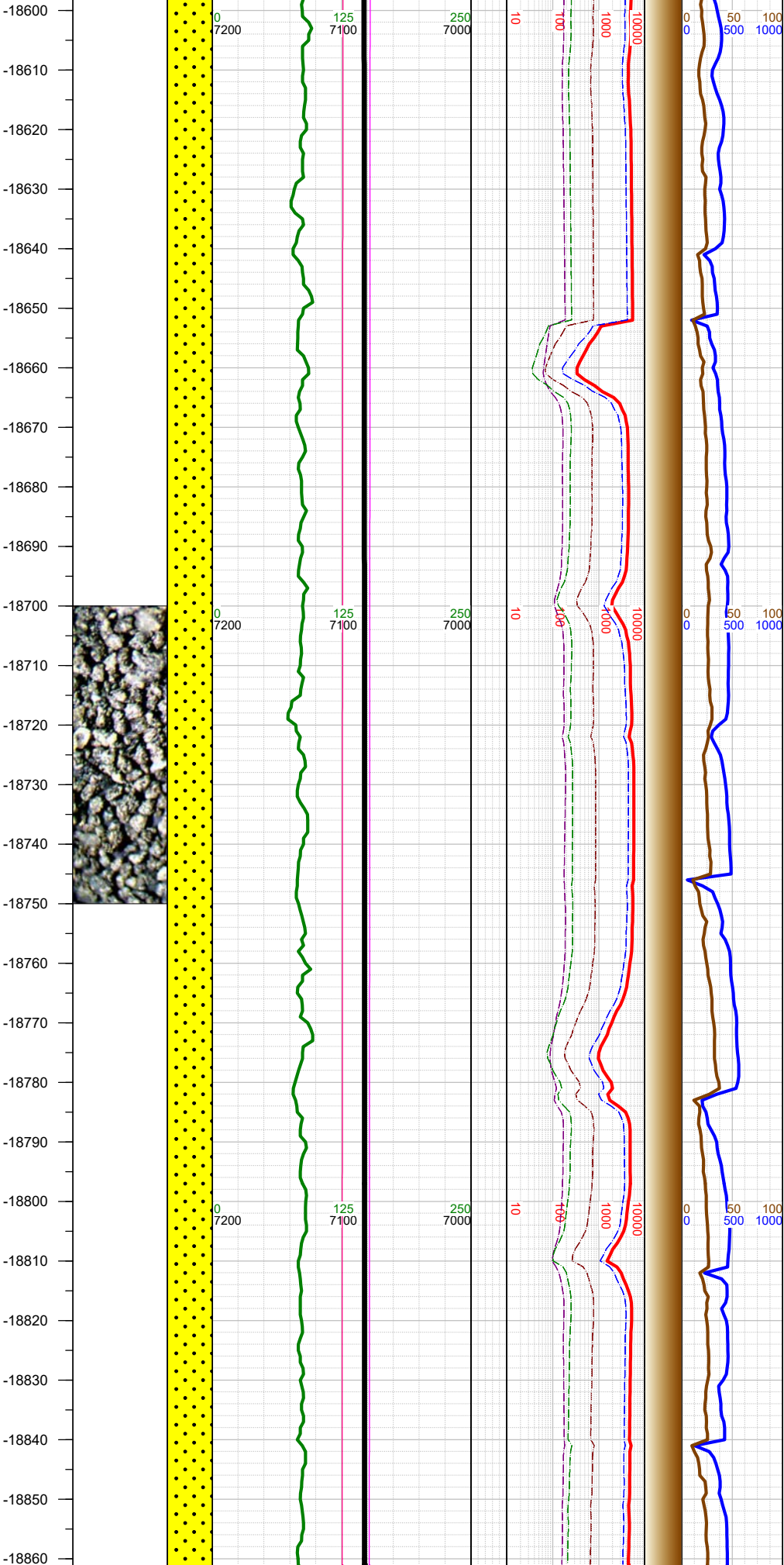


-18070
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-18220
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-18300
-18310
-18320
-18330



K			-18100 WT 10.1, VIS 44	
			-18150 INC 91.3, AZM 181.19, TVD 7089.9	
K			-18200 WT 10.1, VIS 44	-18250 SHLY SS: med gy- gybrn, frm- fri clus wi arg cmt, f- v fgr, mod srt, sub ang-sub rnd; SS: pred lt gy - trnsl, sub ang-sub rnd, uncons qtz grs, v f- f grs, mod srt; tr pyr;
			-18245 INC 91.12, AZM 183.3, TVD 7087.89	
K			-18300 WT 10.1, VIS 44	





-18600 WT
10.1, VIS 44

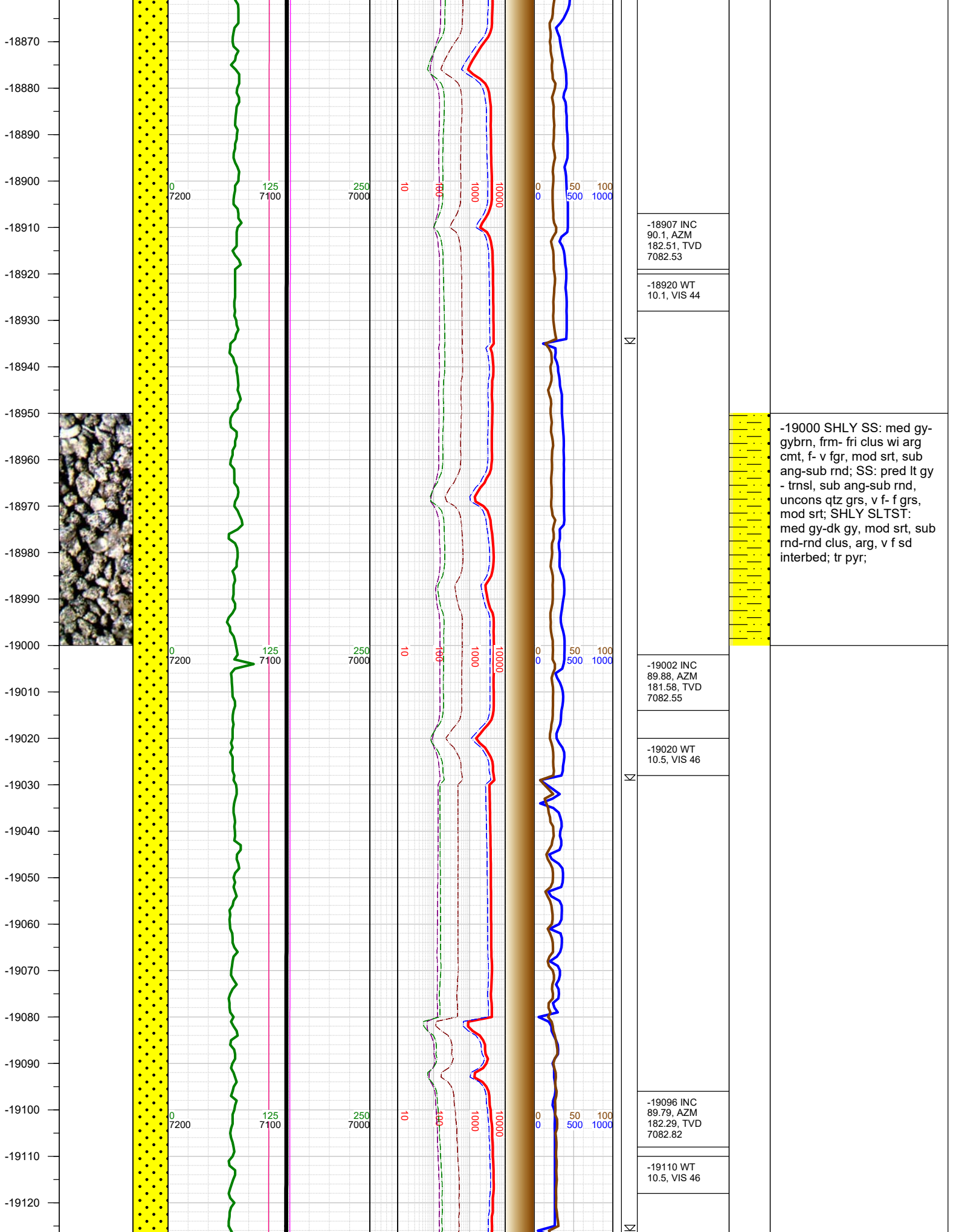
-18624 INC
90.28, AZM
182.69, TVD
7082.63

-18700 WT
10.1, VIS 44

-18718 INC
89.88, AZM
181.19, TVD
7082.5

-18800 WT
10.1, VIS 44

-18750 SHLY SS: med gy-
gybrn, frm- fri clus wi arg
cmt, f- v fgr, mod srt, sub
ang-sub rnd; SHLY SLTST:
med gy-dk gy, mod srt,
sub rnd-rnd clus, arg, v f sd
interbed; tr pyr; SS: pred lt
gy - trns, sub ang-sub rnd,
uncons qtz grs, v f- f grs,
mod srt;



-18907 INC
90.1, AZM
182.51, TVD
7082.53

-18920 WT
10.1, VIS 44

⌵

-19000 SHLY SS: med gy-
gybrn, frm- fri clus wi arg
cmt, f- v fgr, mod srt, sub
ang-sub rnd; SS: pred lt gy
- trnsl, sub ang-sub rnd,
uncons qtz grs, v f- f grs,
mod srt; SHLY SLTST:
med gy-dk gy, mod srt, sub
rnd-rnd clus, arg, v f sd
interbed; tr pyr;

-19002 INC
89.88, AZM
181.58, TVD
7082.55

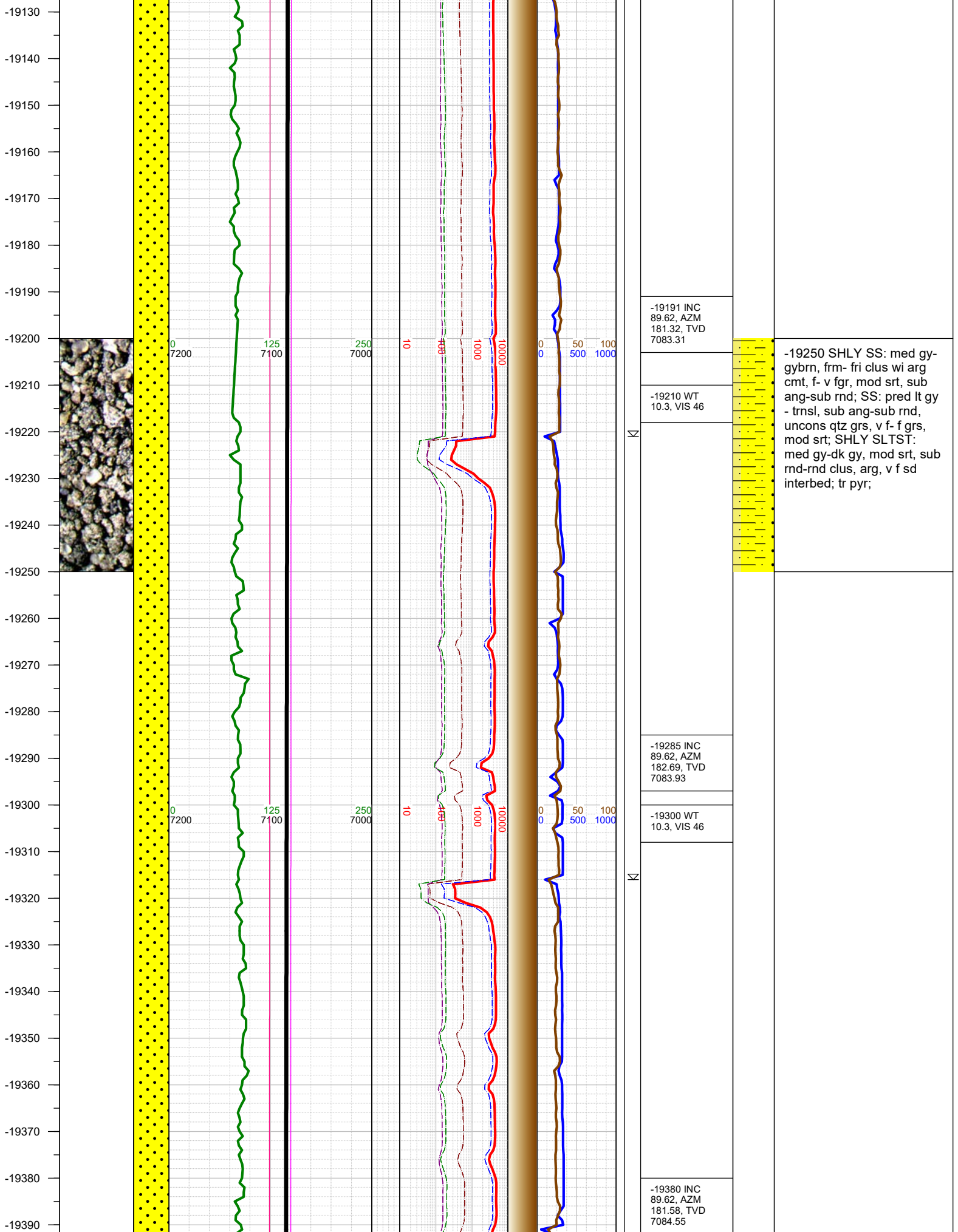
-19020 WT
10.5, VIS 46

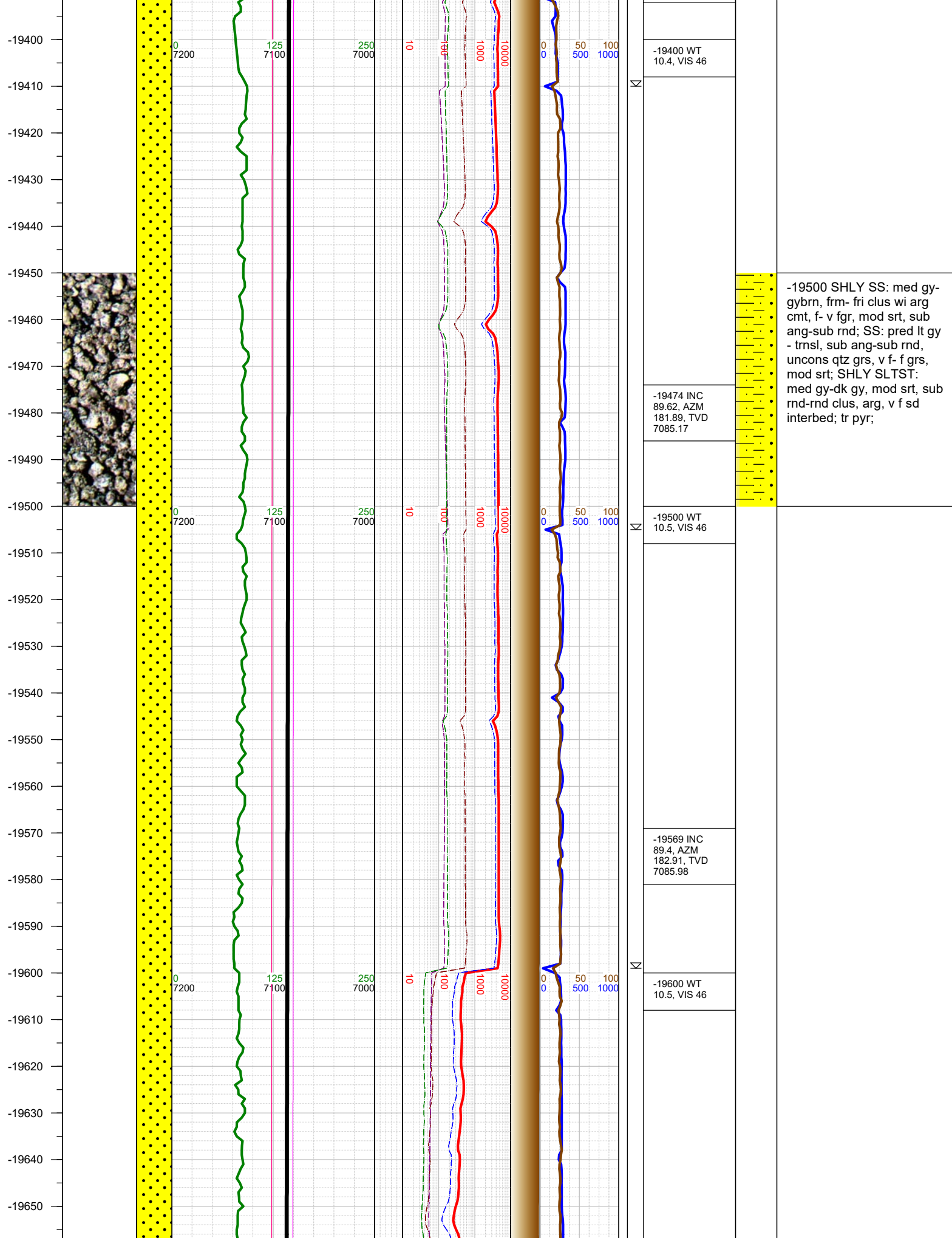
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-19096 INC
89.79, AZM
182.29, TVD
7082.82

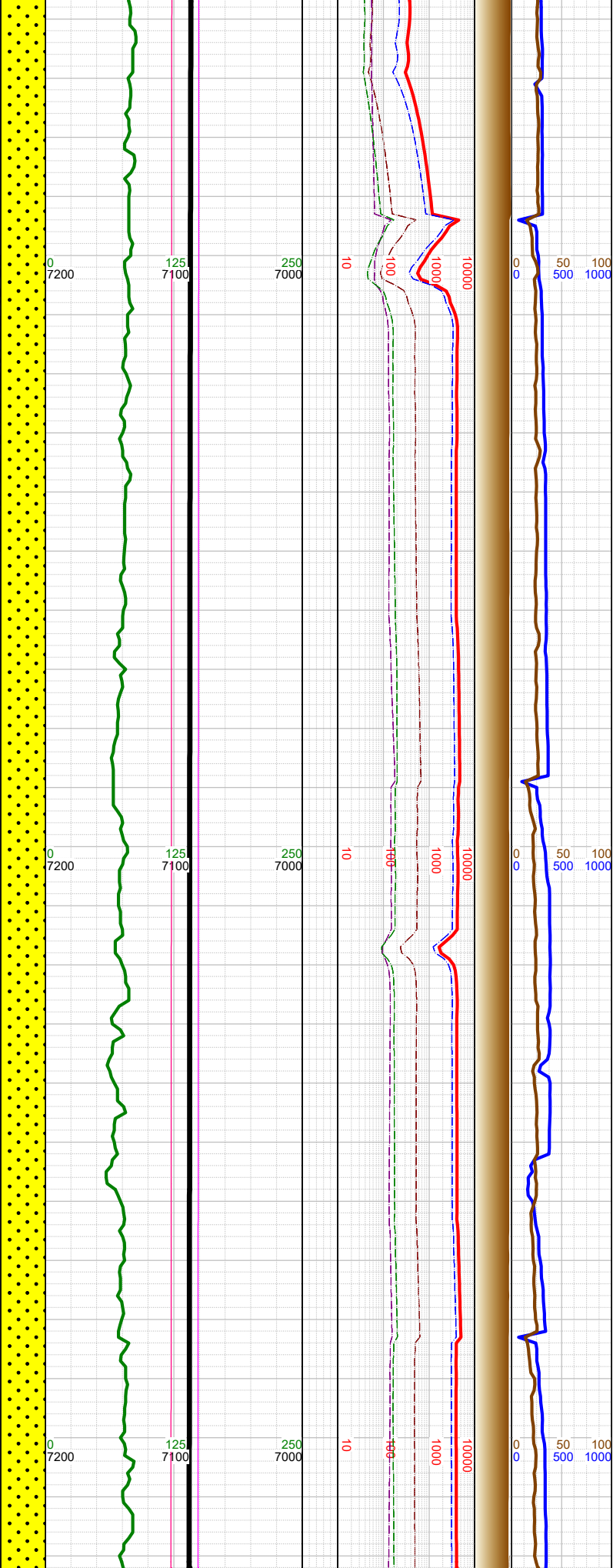
-19110 WT
10.5, VIS 46

⌵





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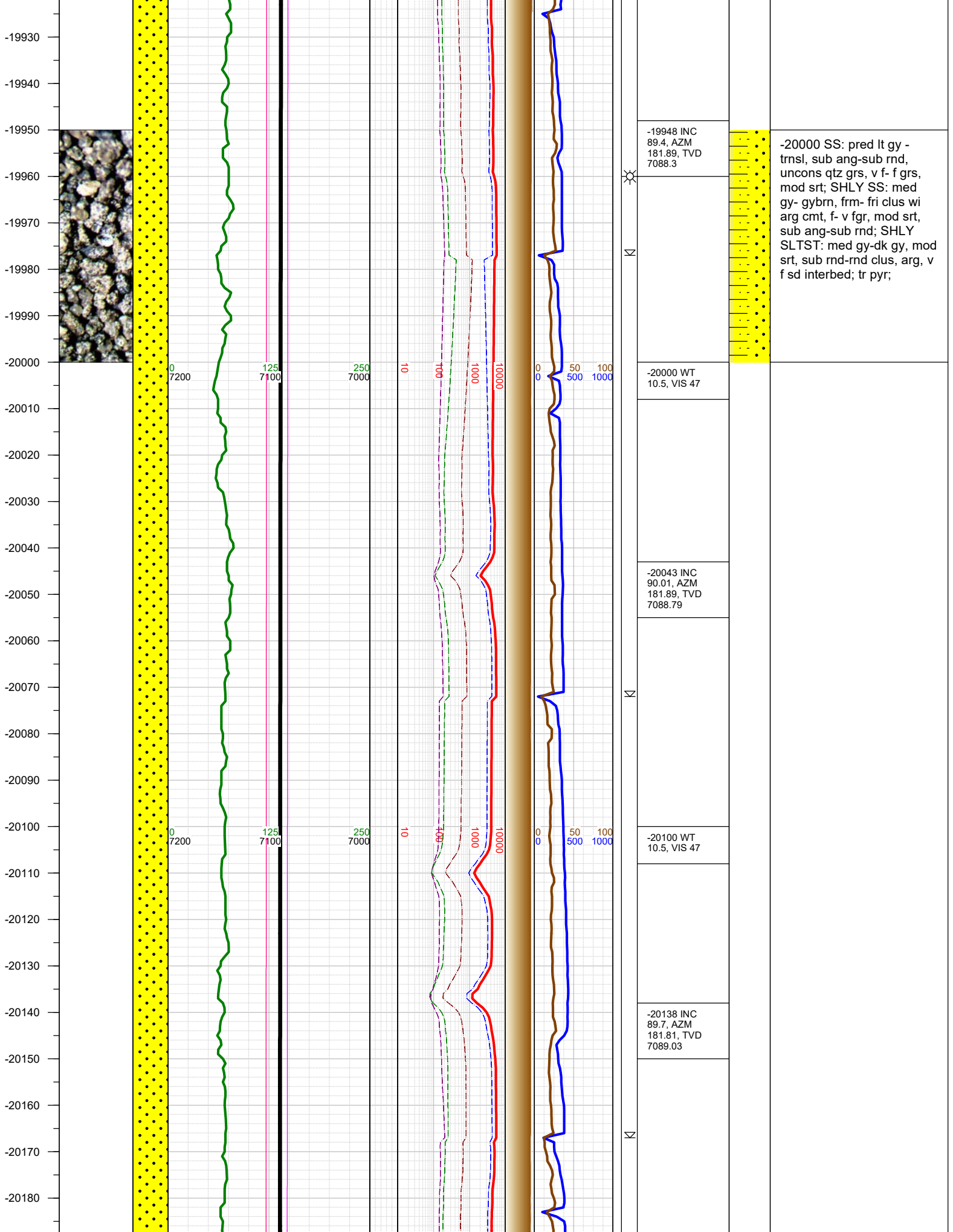
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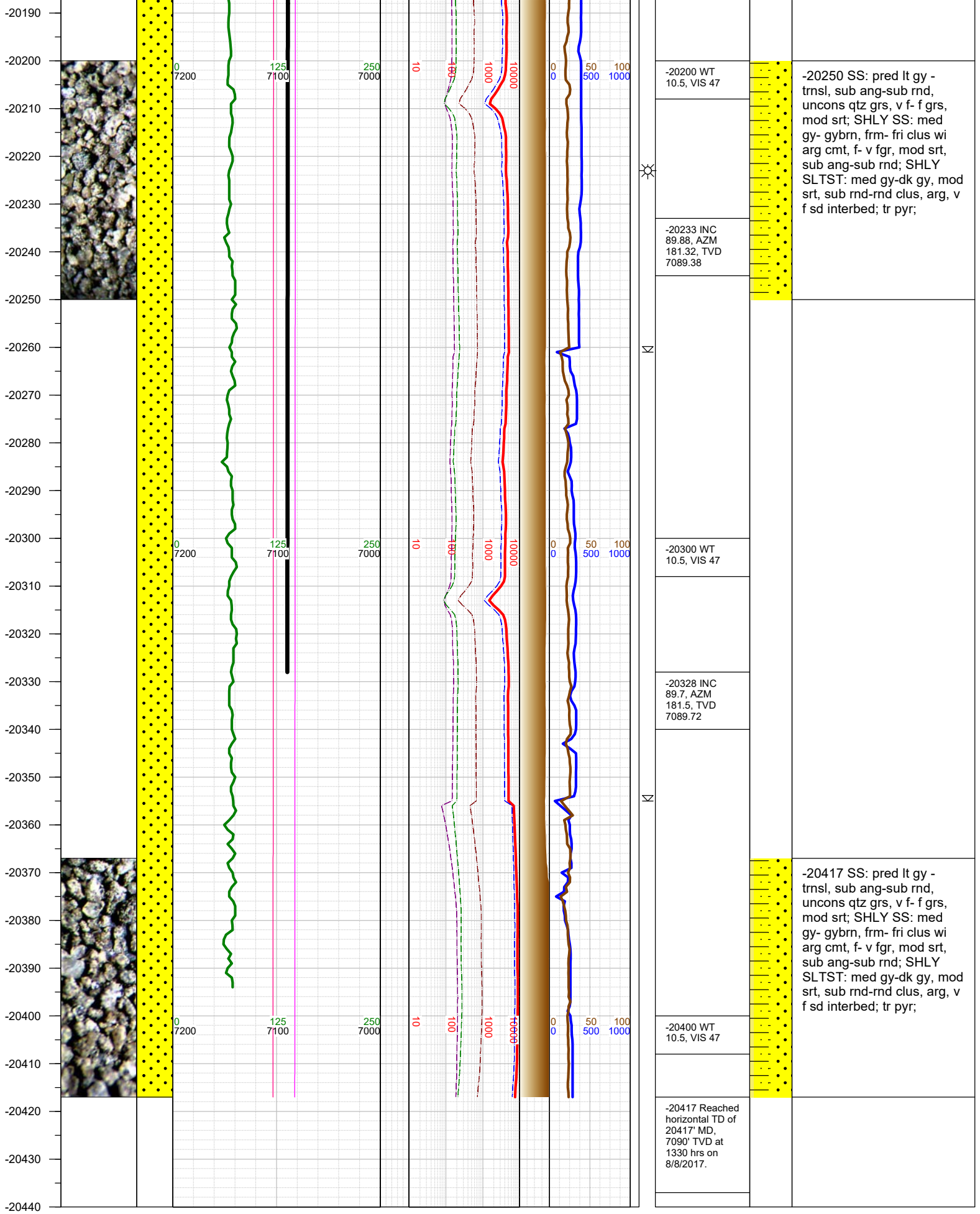
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-19664 INC 89.48, AZM 182.25, TVD 7086.91	
-19700 WT 10.4, VIS 47	
-19758 INC 89.62, AZM 181.41, TVD 7087.65	
-19800 WT 10.4, VIS 47	
-19853 INC 90.1, AZM 182.99, TVD 7087.88	
-19900 WT 10.4, VIS 47	



-19750 SHLY SS: med gy-
gybrn, frm- fri clus wi arg
cmt, f- v fgr, mod srt, sub
ang-sub rnd; SS: pred lt gy
- trnsl, sub ang-sub rnd,
uncons qtz grs, v f- f grs,
mod srt; SHLY SLTST:
med gy-dk gy, mod srt, sub
rnd-rnd clus, arg, v f sd
interbed; tr pyr;





TOTAL DEPTH = 20417'

Thank you for using Earth Science Agency