

OPERATOR: **Extraction Oil & Gas**
WELL NAME: **Interchange B N35-20-8C**
FIELD NAME: DJ Basin - Wattenberg
DRILLING RIG: Patterson 901
API #: 05-014-20776

LAT/LONG: 39.978999, -104.991218
SURFACE HOLE: NESW S10-T1S-R68W, 2505' FSL, 1672' FWL
BOTTOM HOLE: S34-T1N-R68W, 460' FNL, 757' FEL

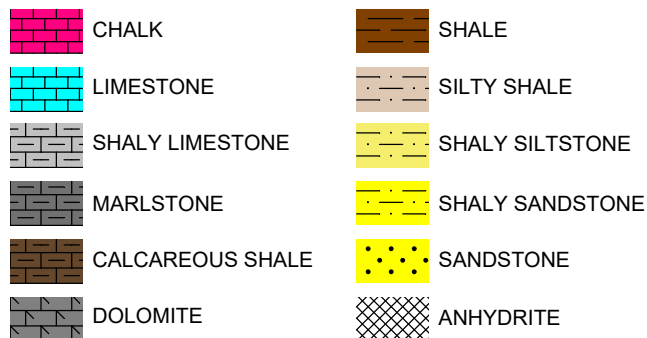


Earth Science Agency, LLC

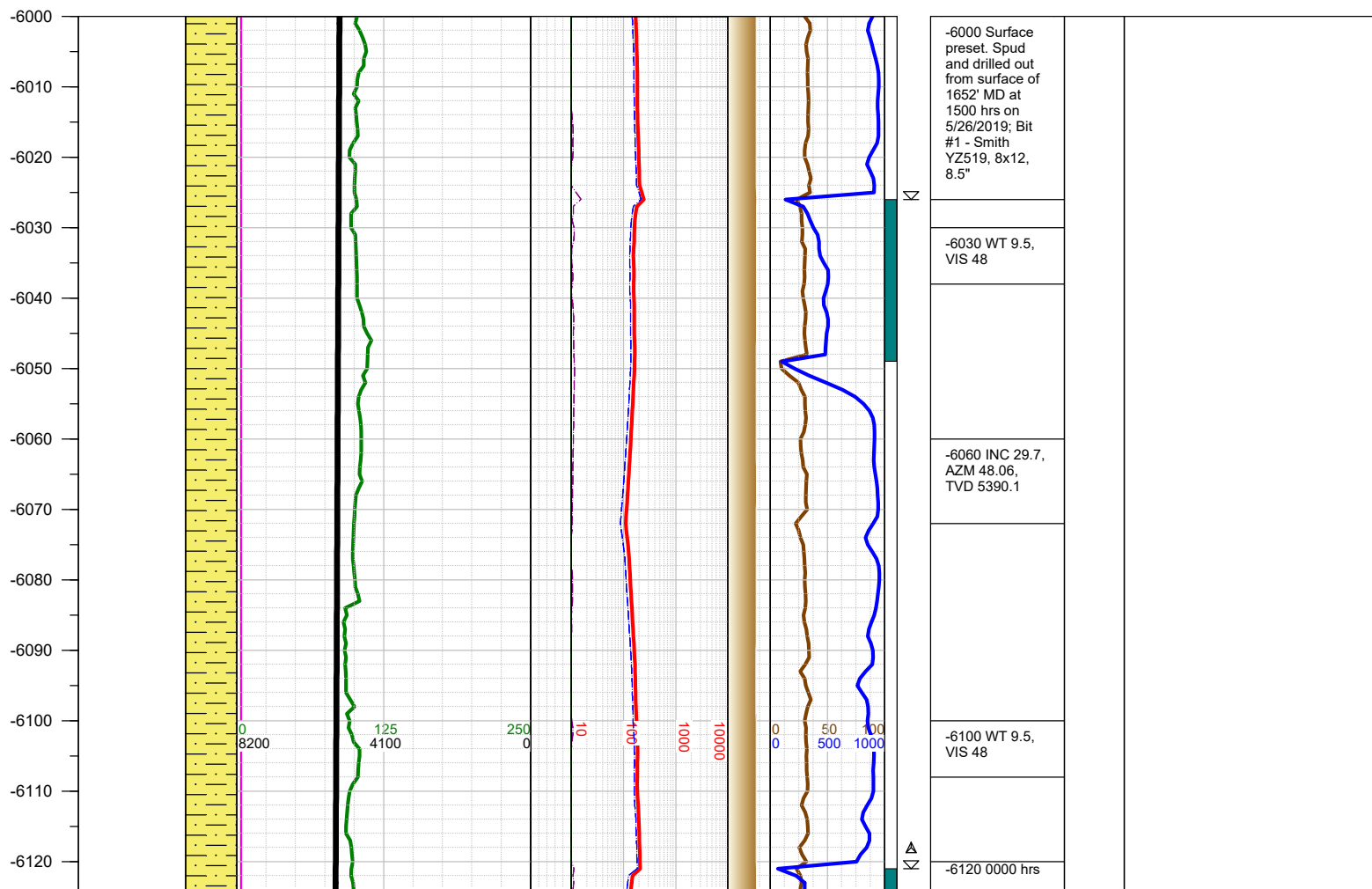
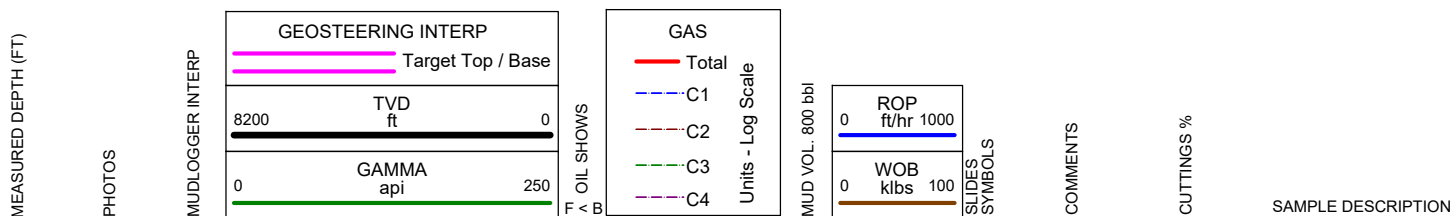
COUNTY: Broomfield
STATE: Colorado
GROUND ELEVATION: 5213'
KELLY BUSHING: 5242'
DRILLING FLUID: OBM
TVD VS. MD: 8068' / 18910'
SPUD DATE: May 26, 2019
TD DATE: May 31, 2019

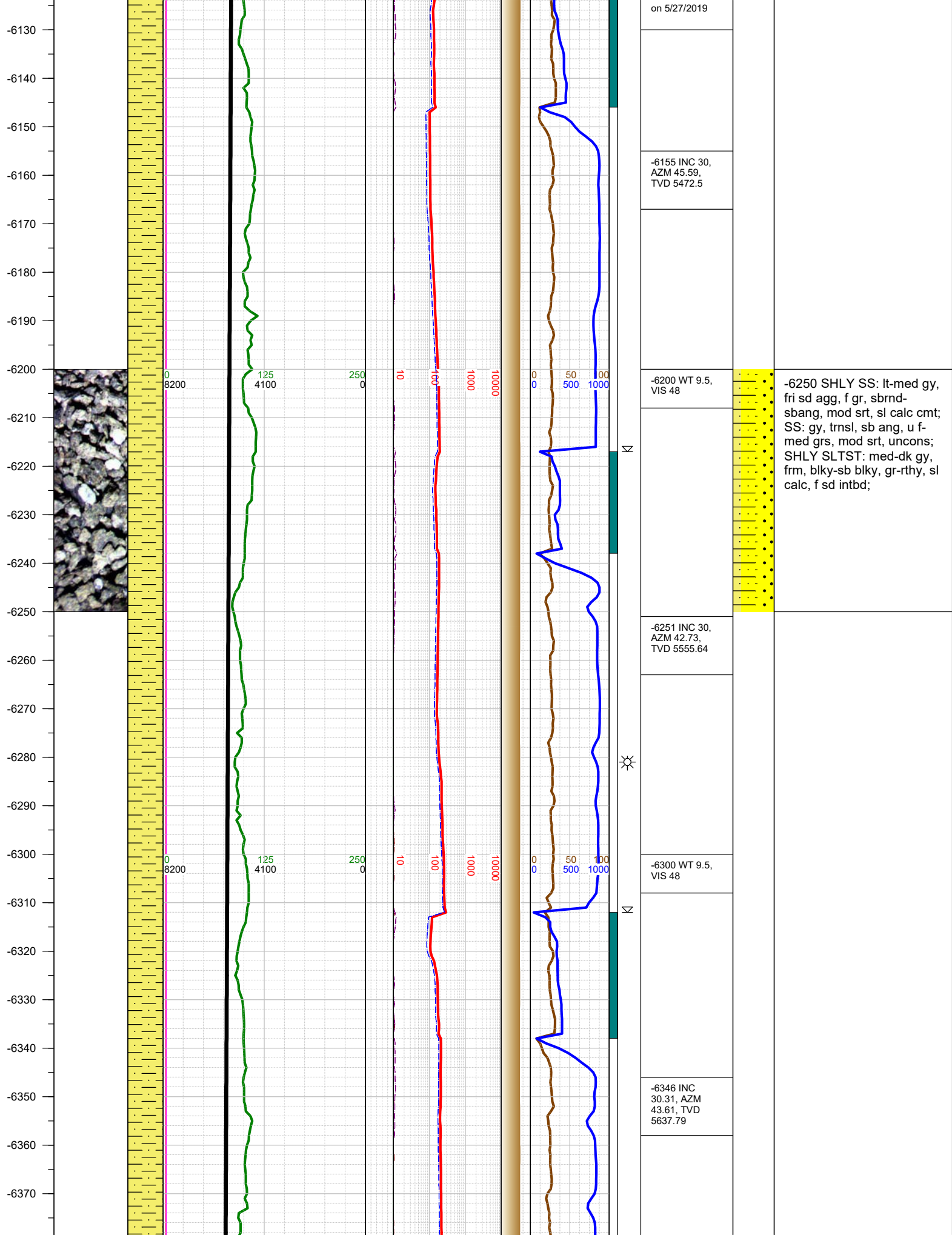
DEPTHS LOGGED: 6000' - 18910'
DATES LOGGED: May 26, 2019 - May 31, 2019
GEOLOGISTS: Nick Damon, Dominic Pitre
SCALE: 5" = 100'

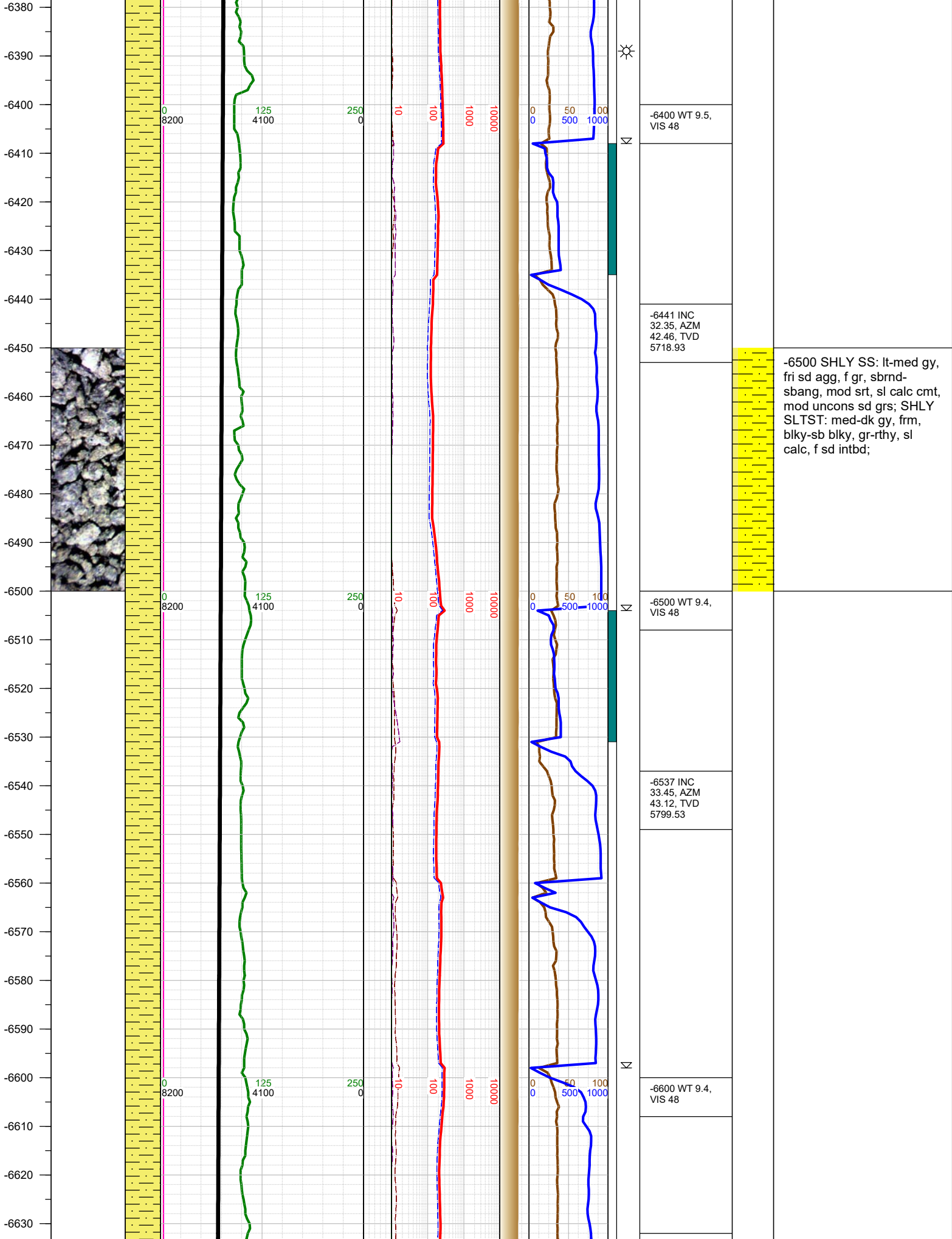
LEGEND

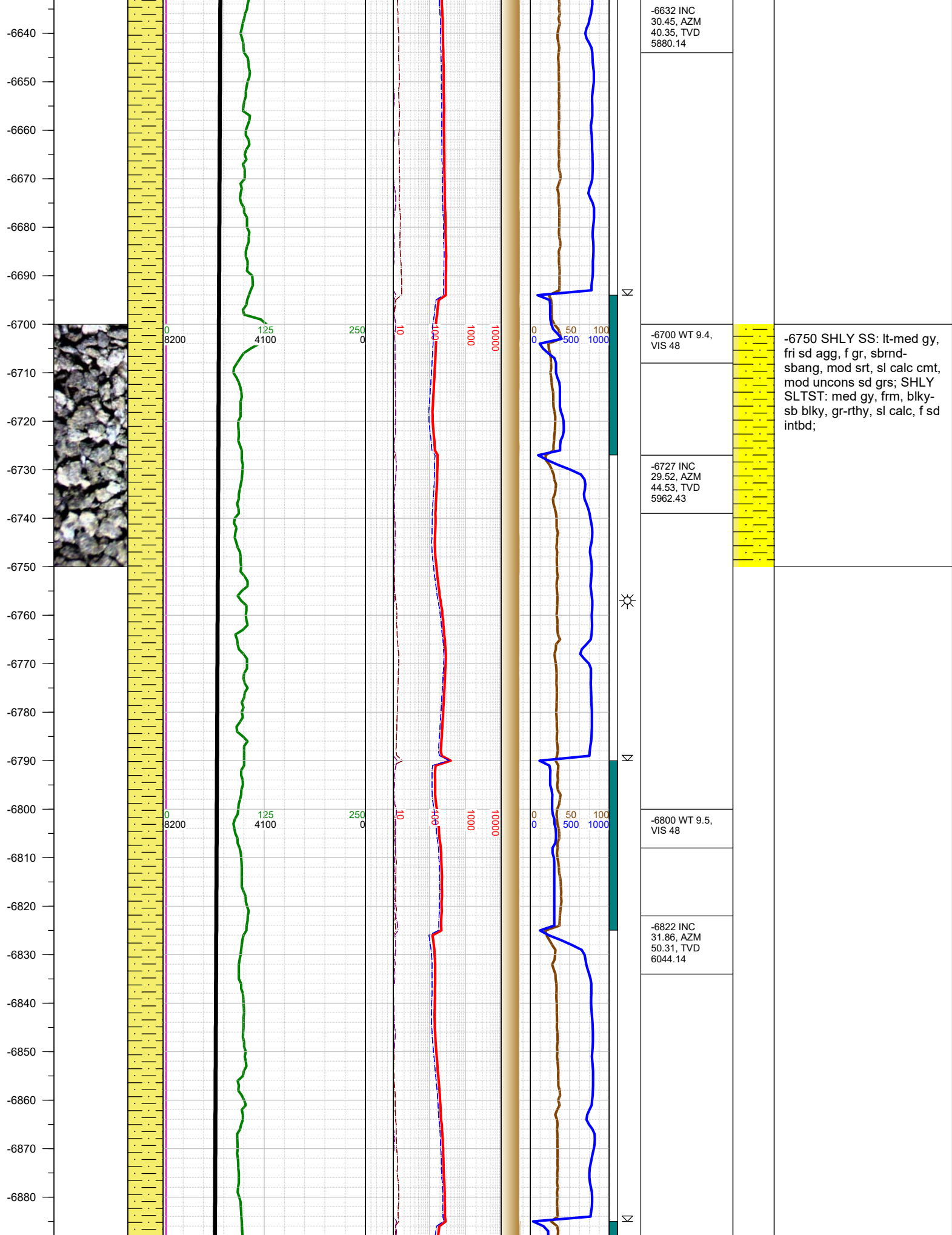


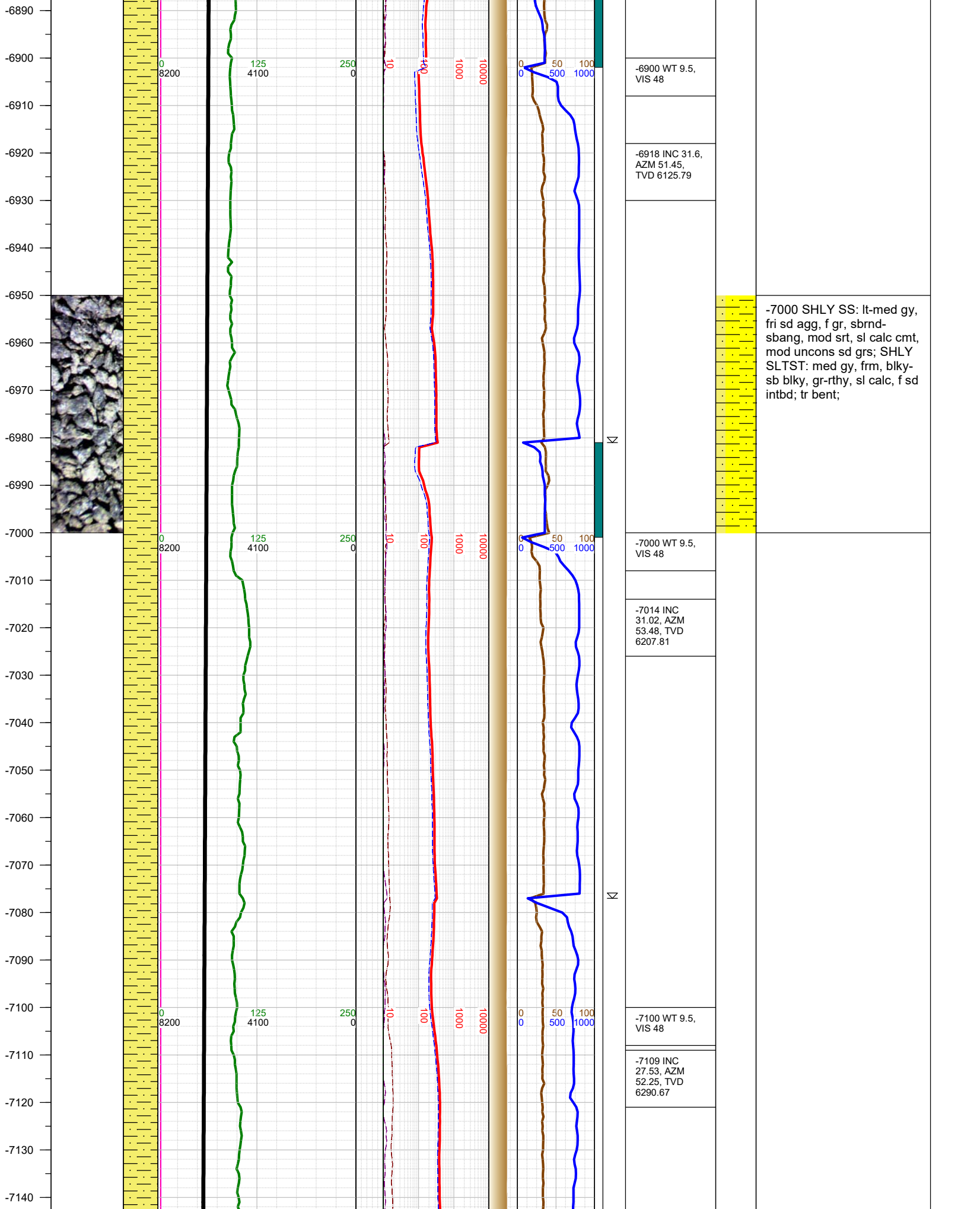
FORMATION CONNECTION MIDNIGHT NEW BIT GAS SHOW FAULT

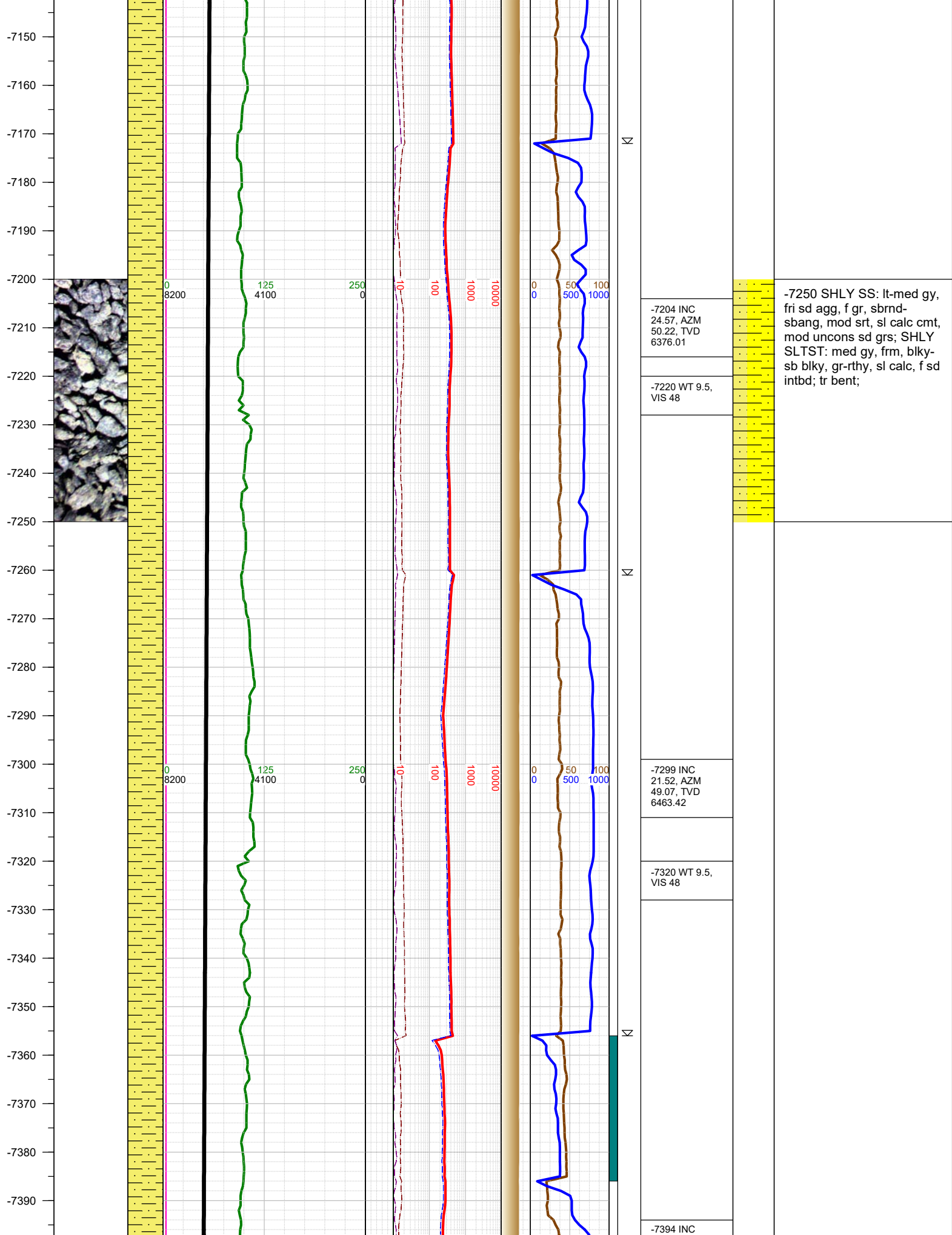


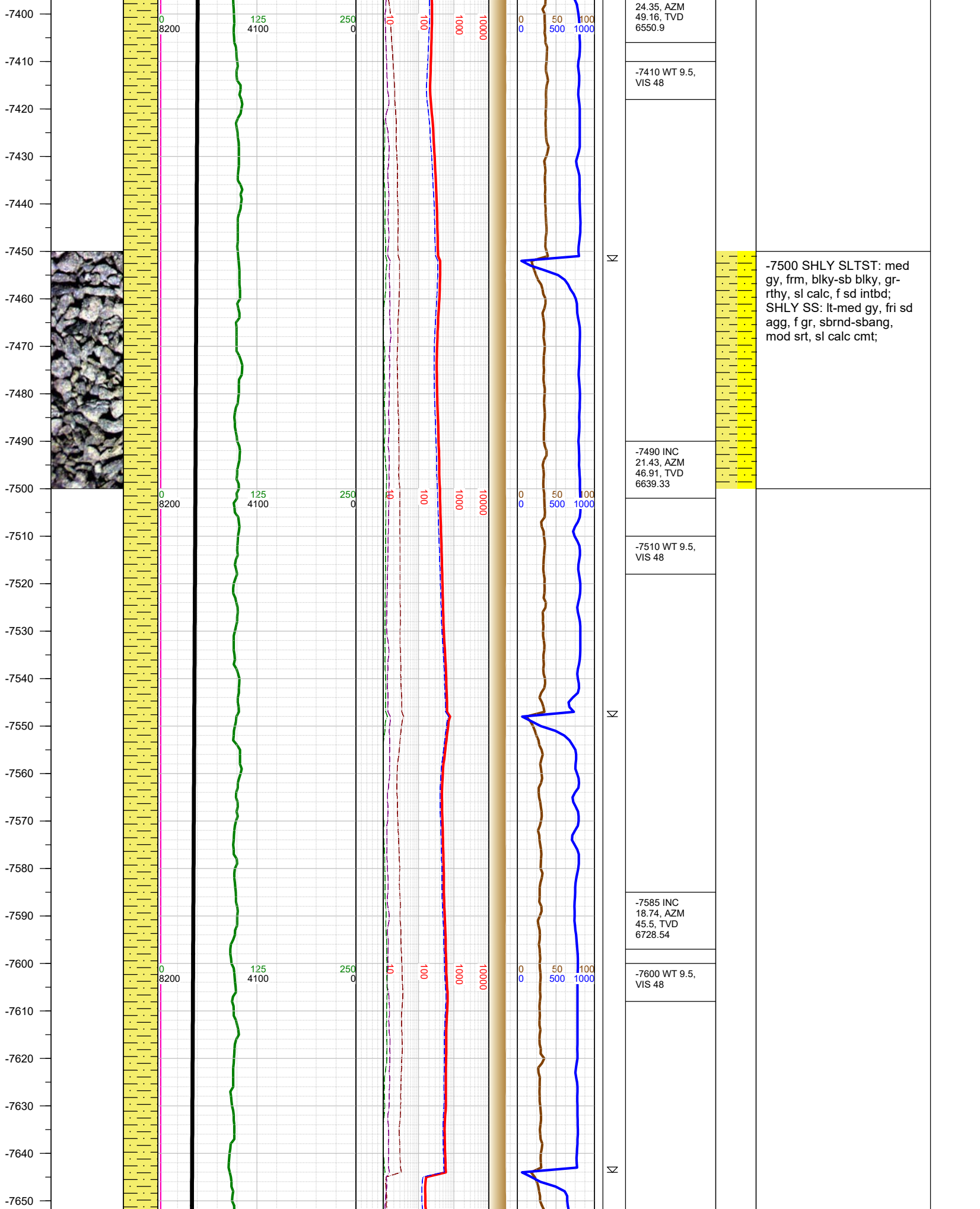


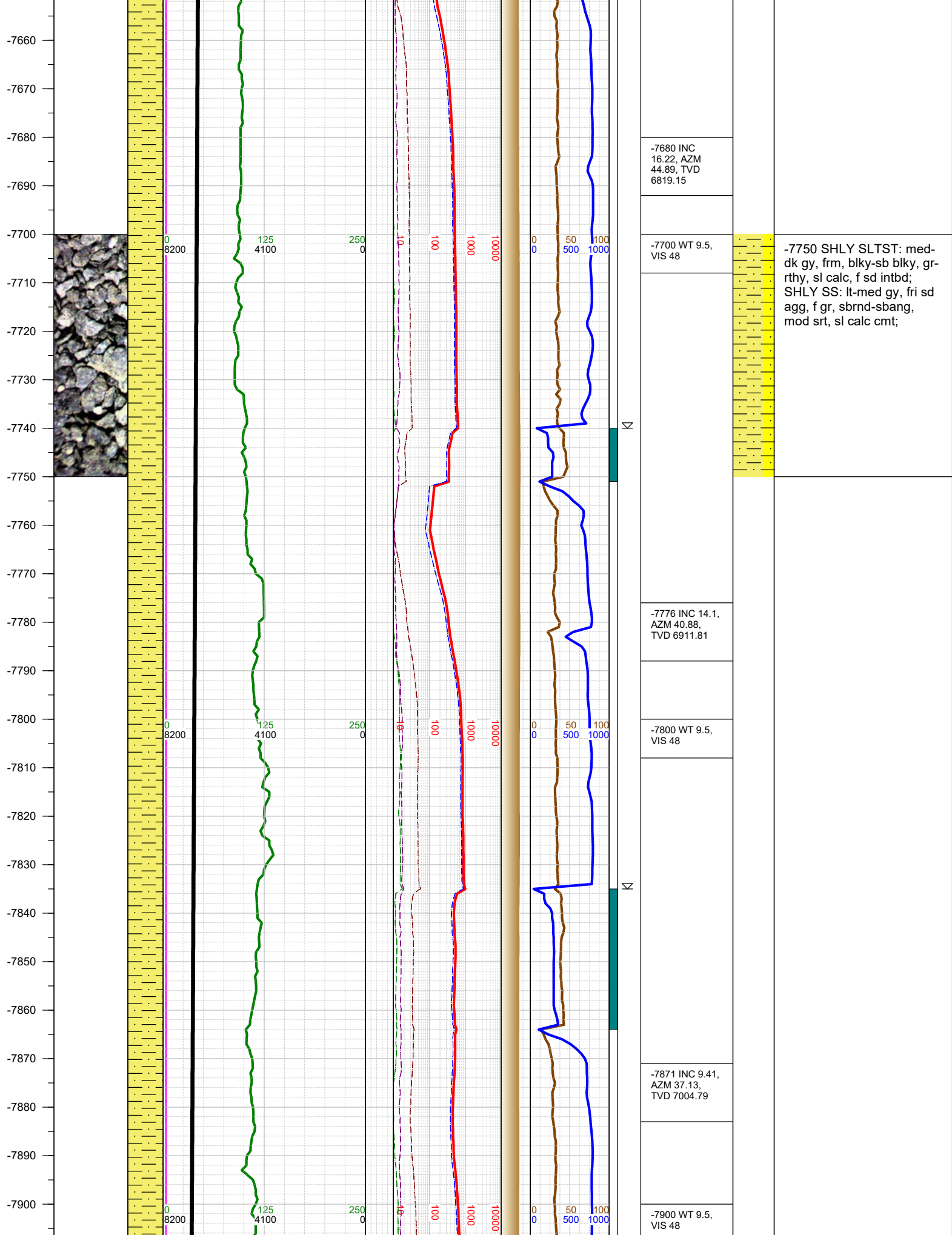


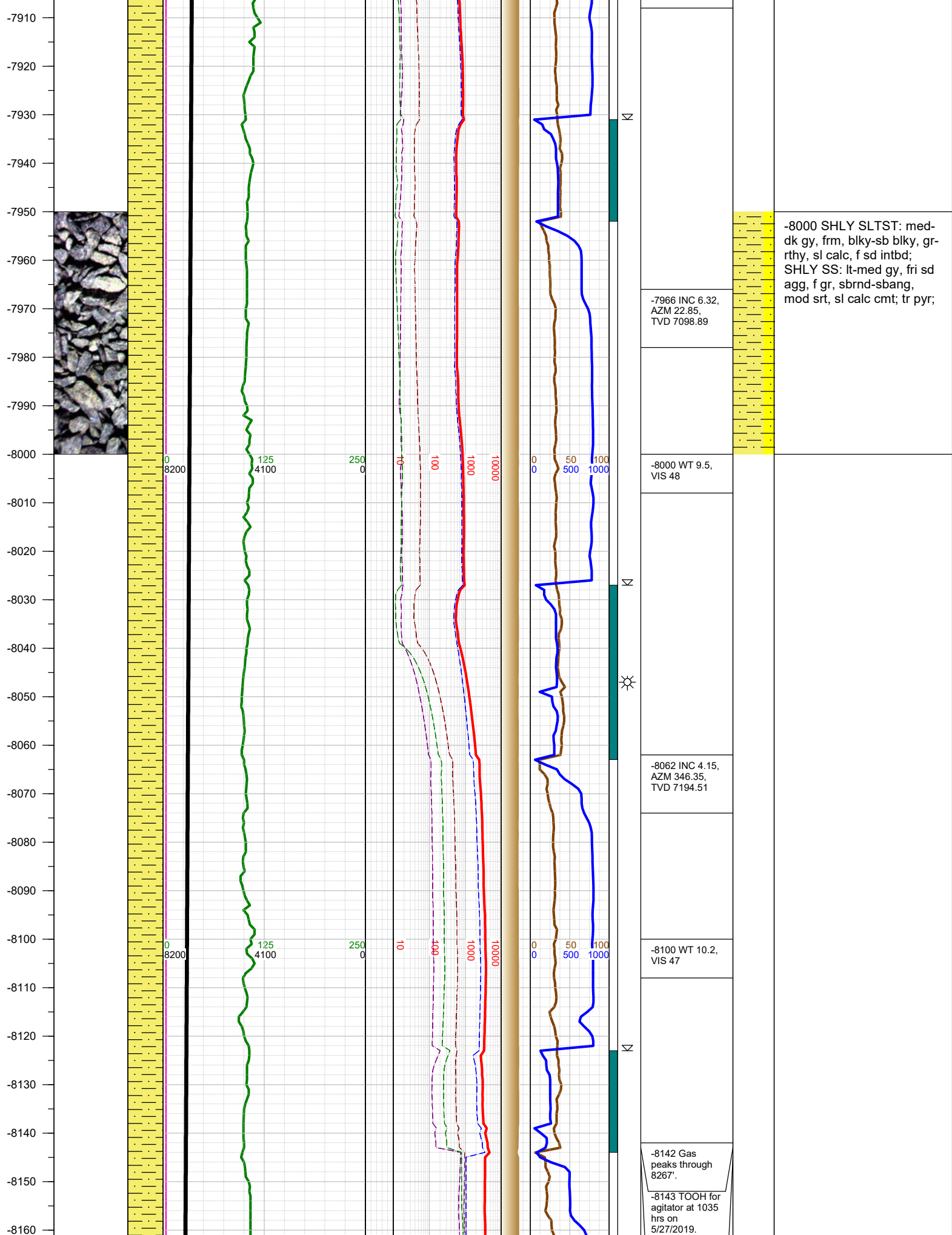


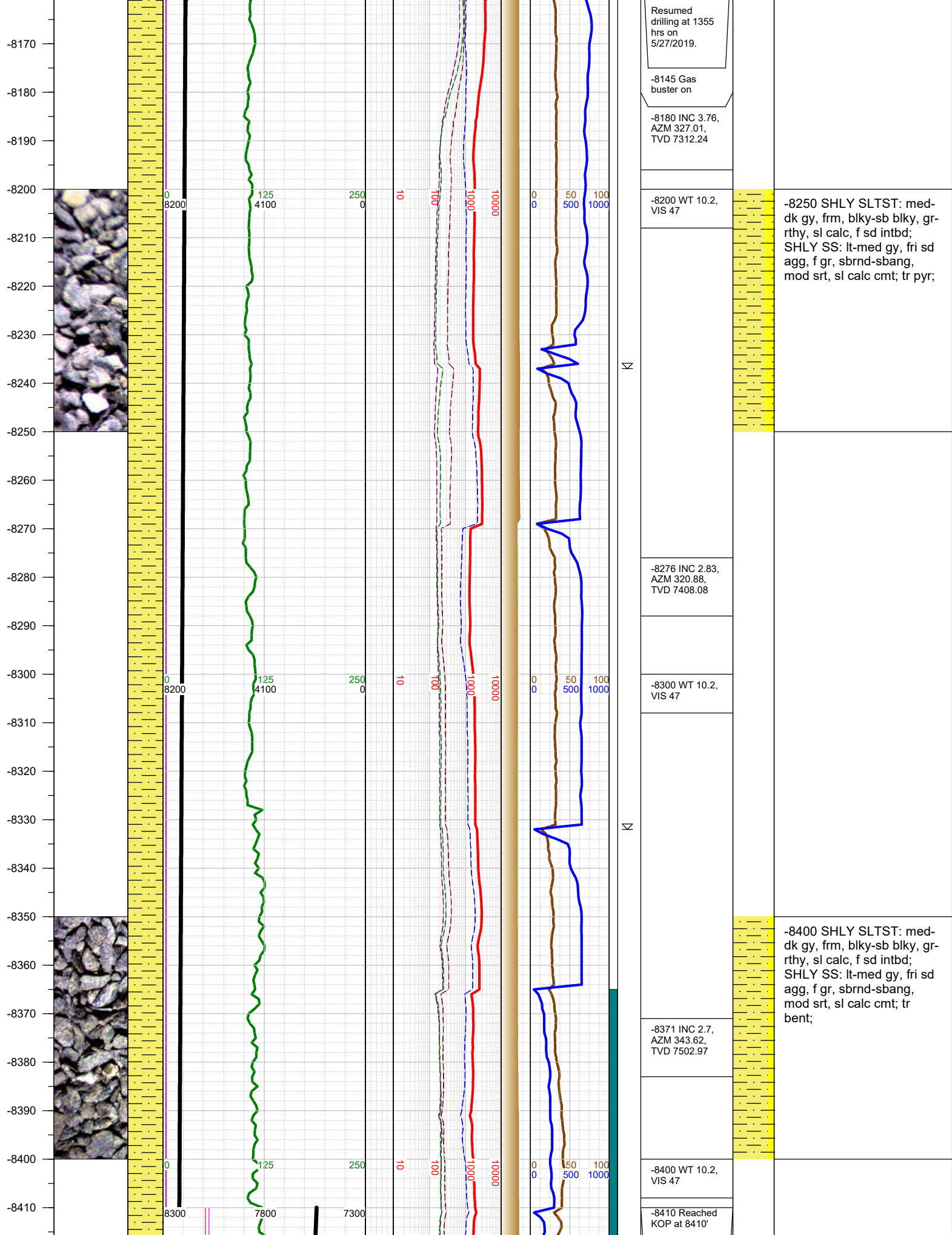


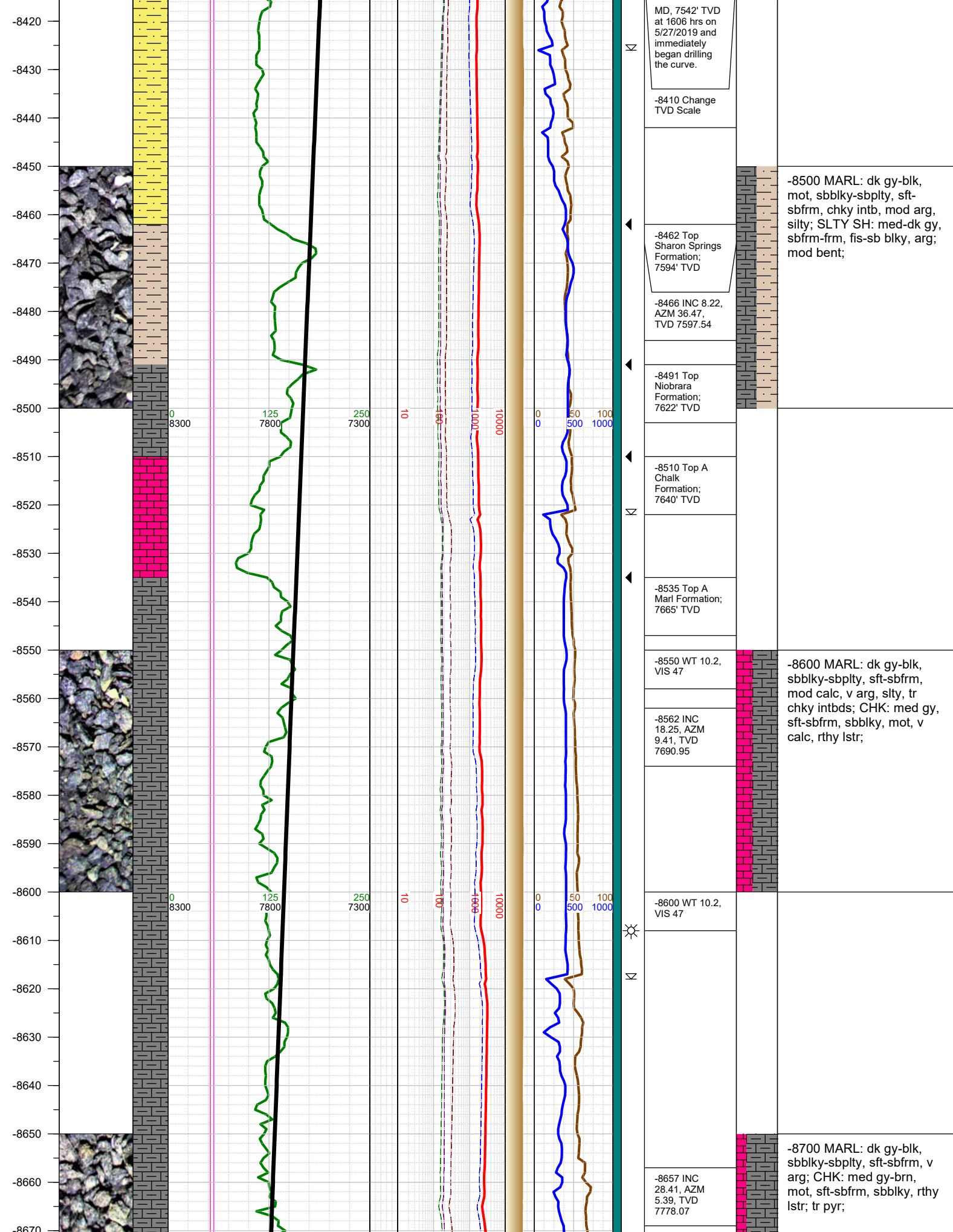


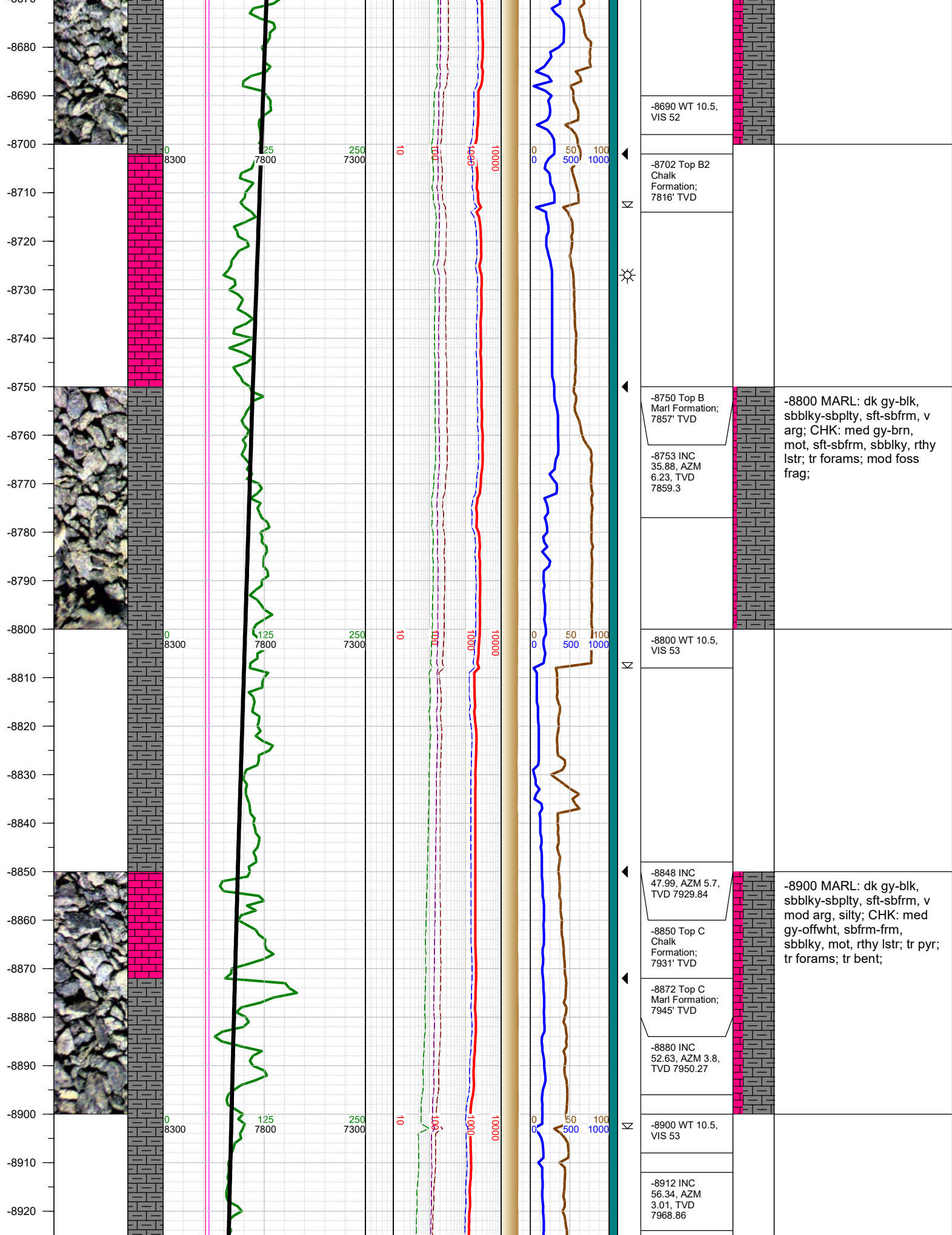


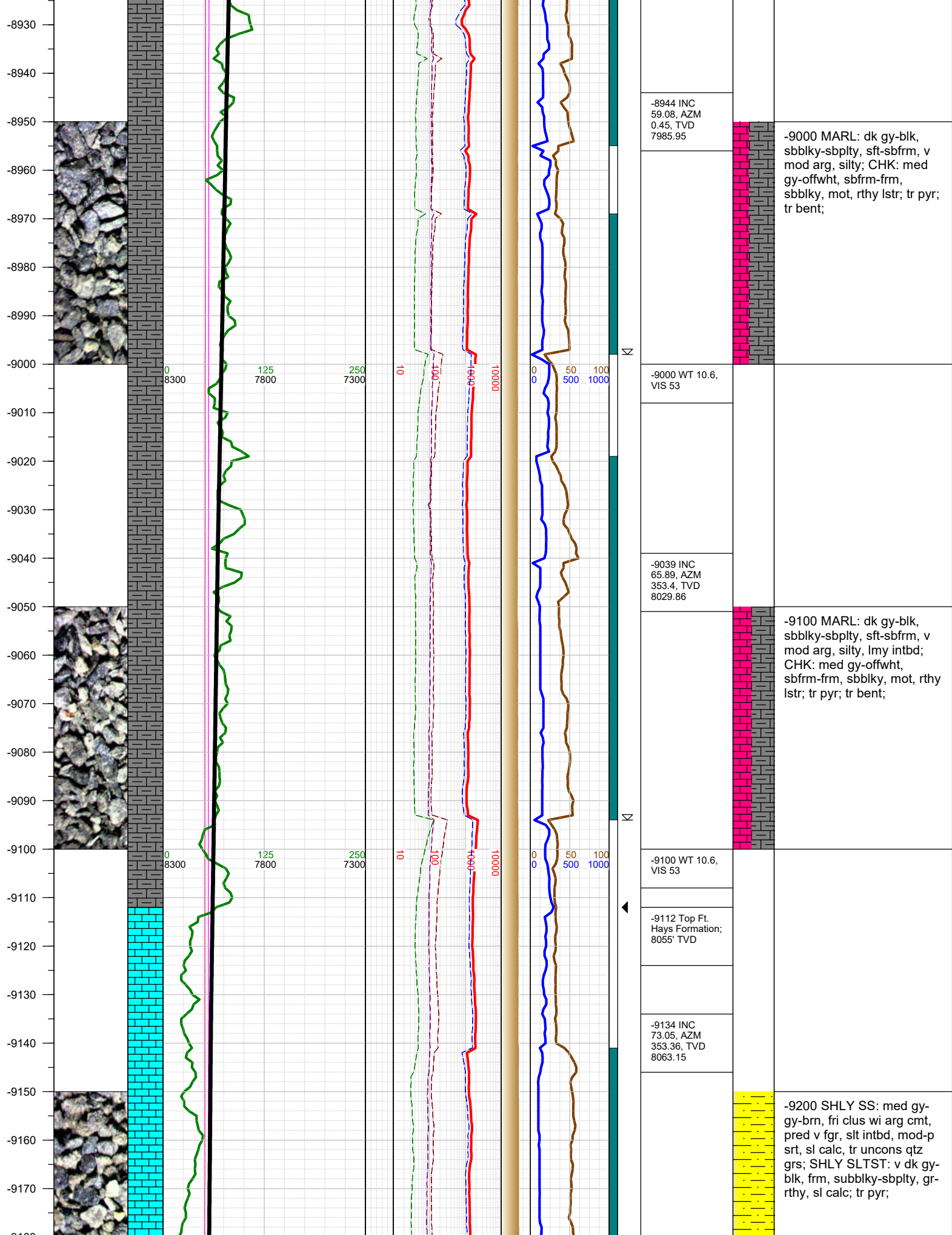


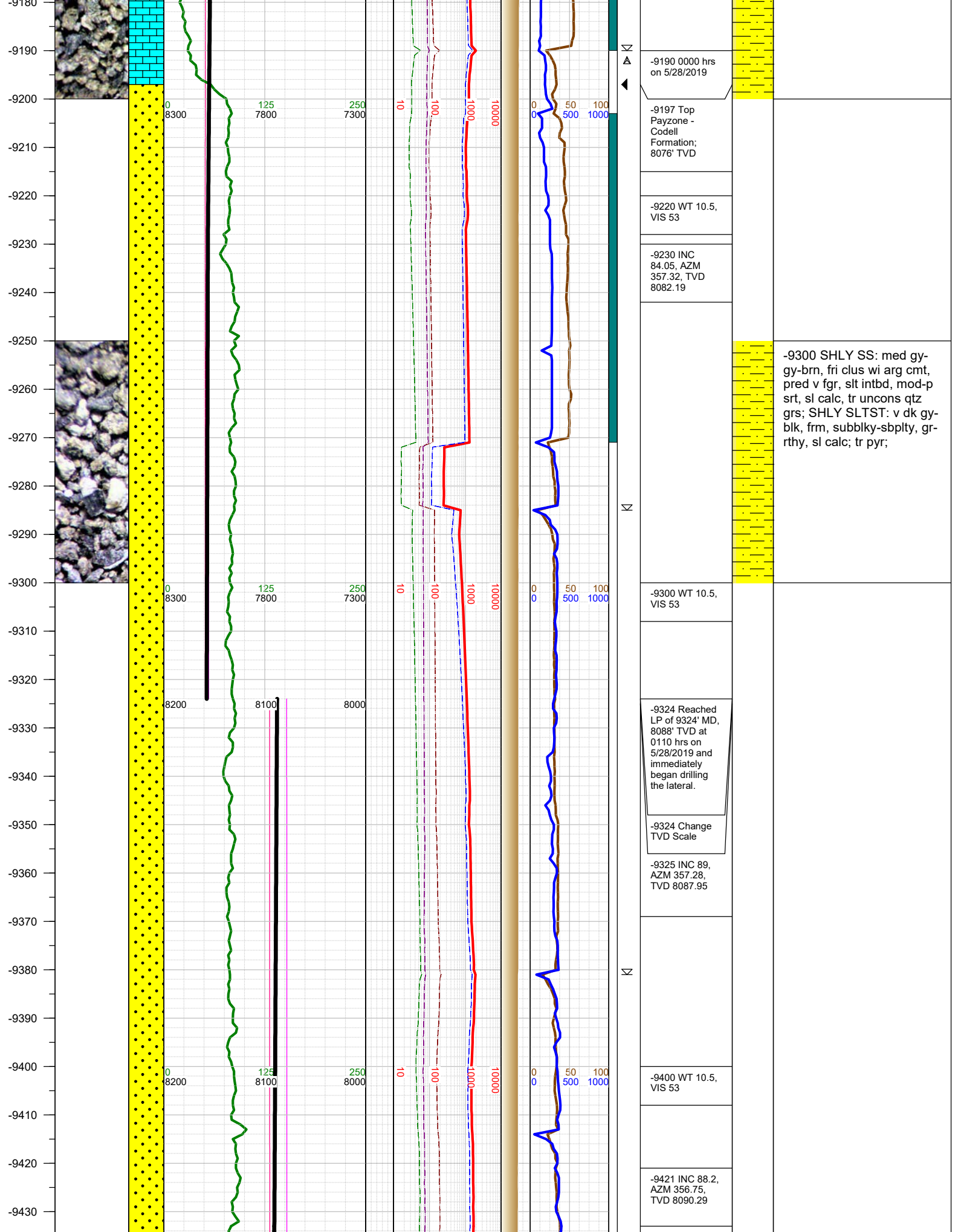


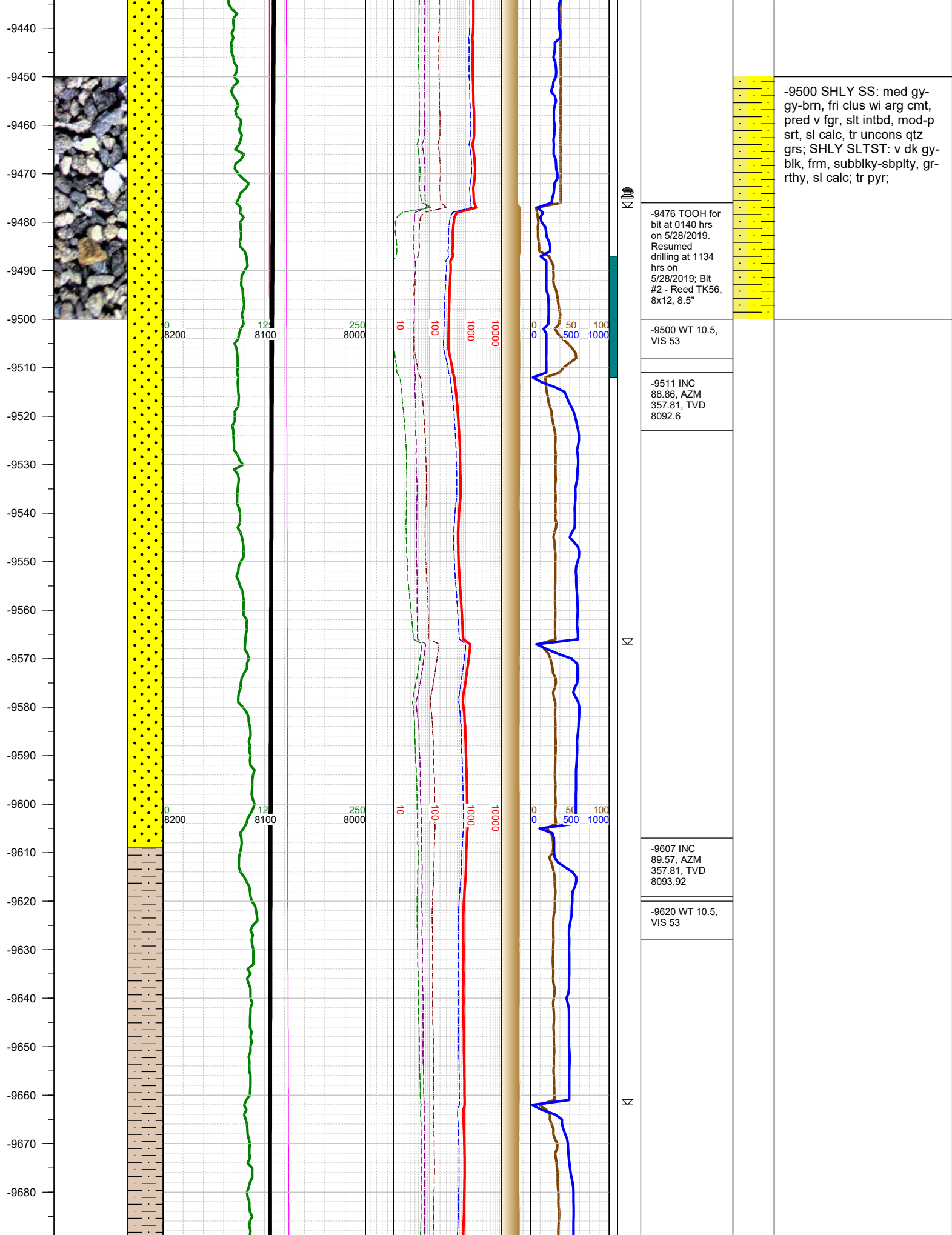


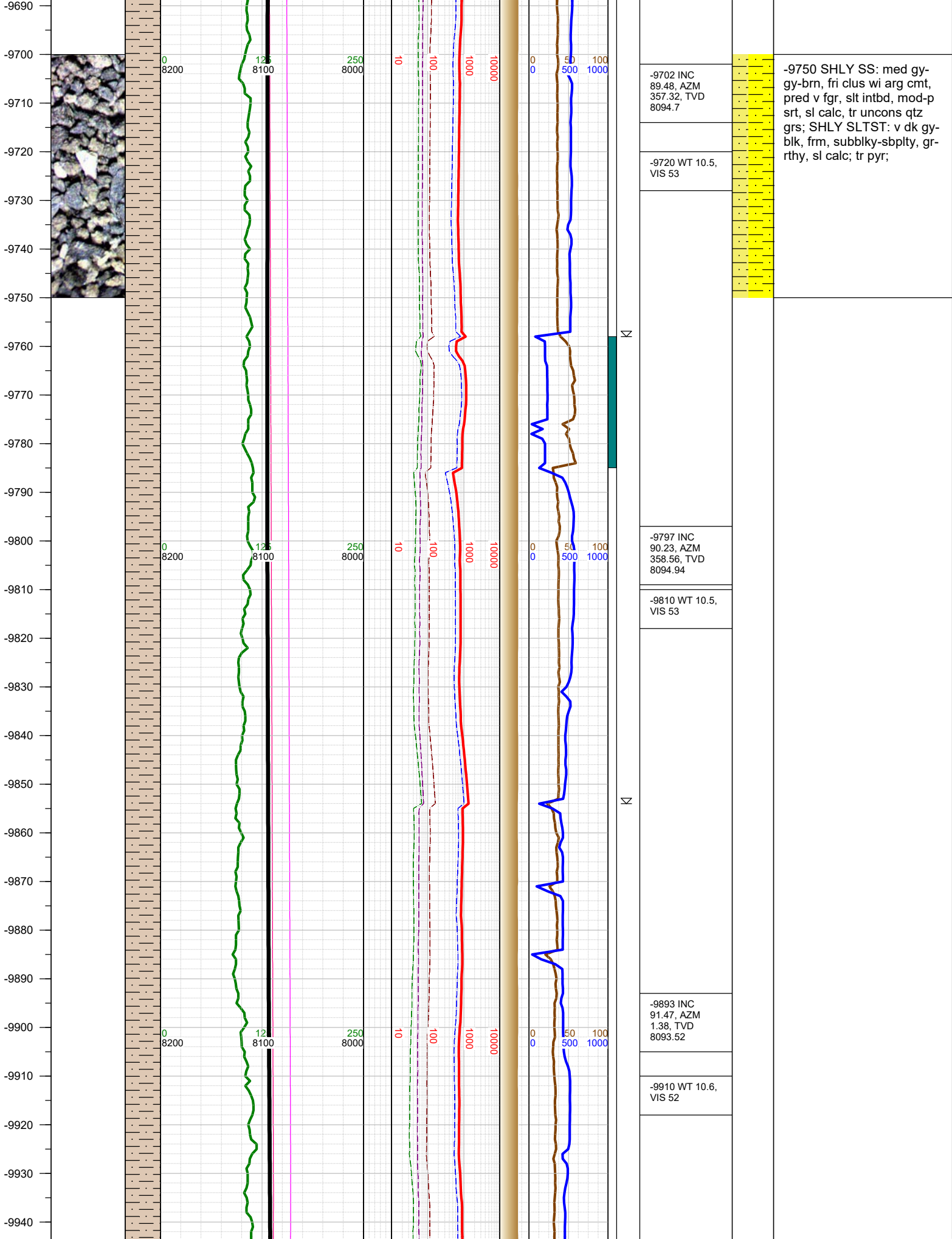


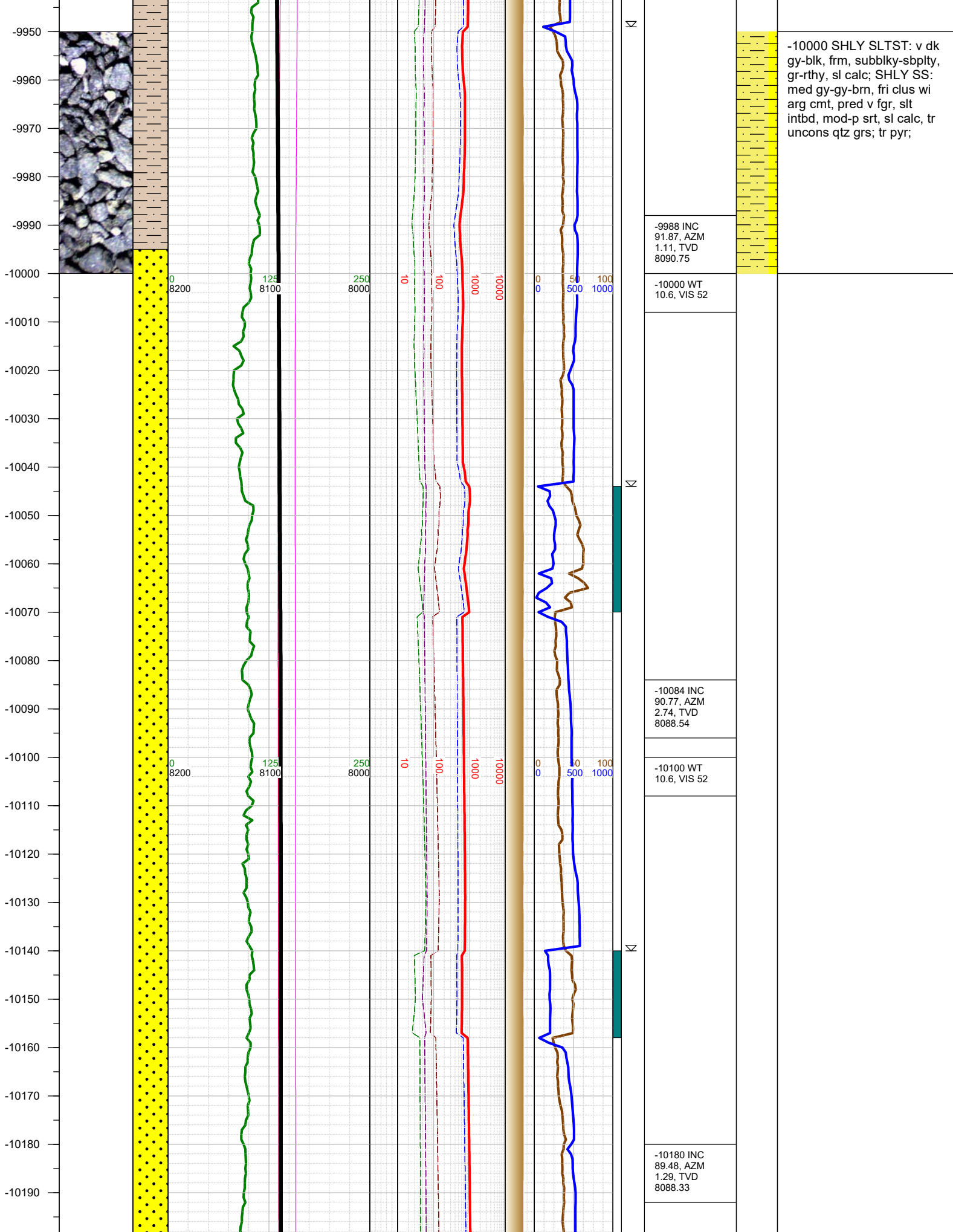


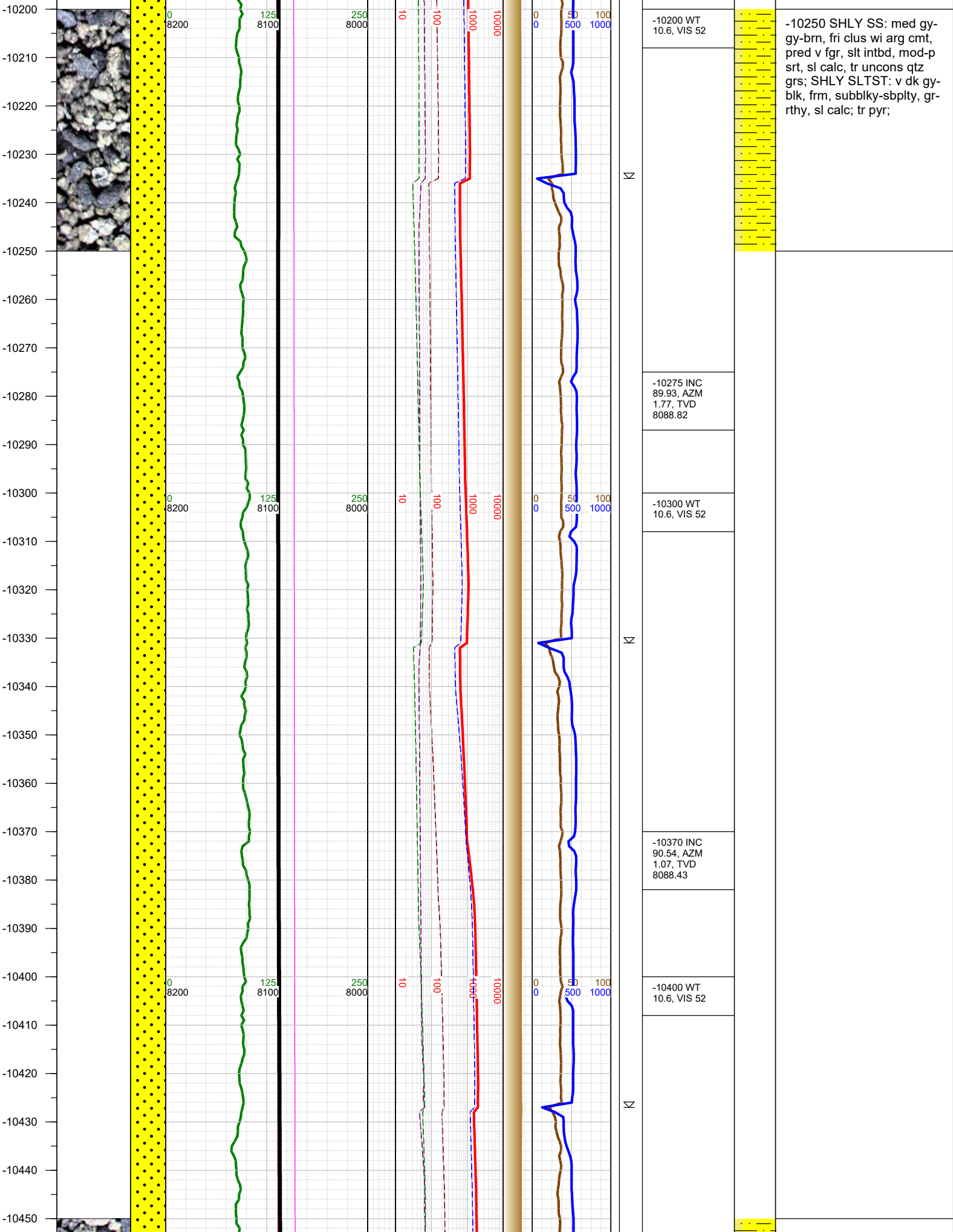


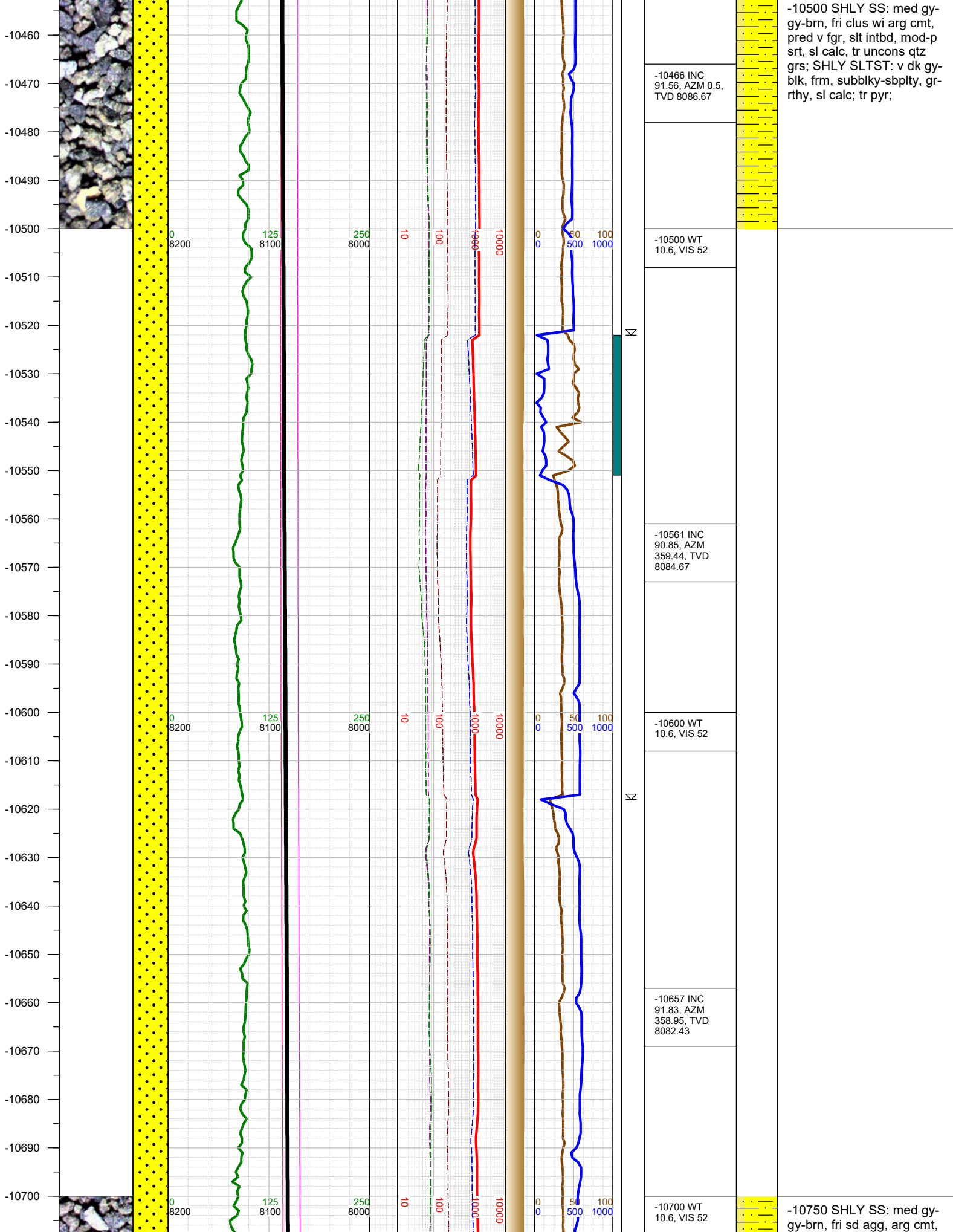


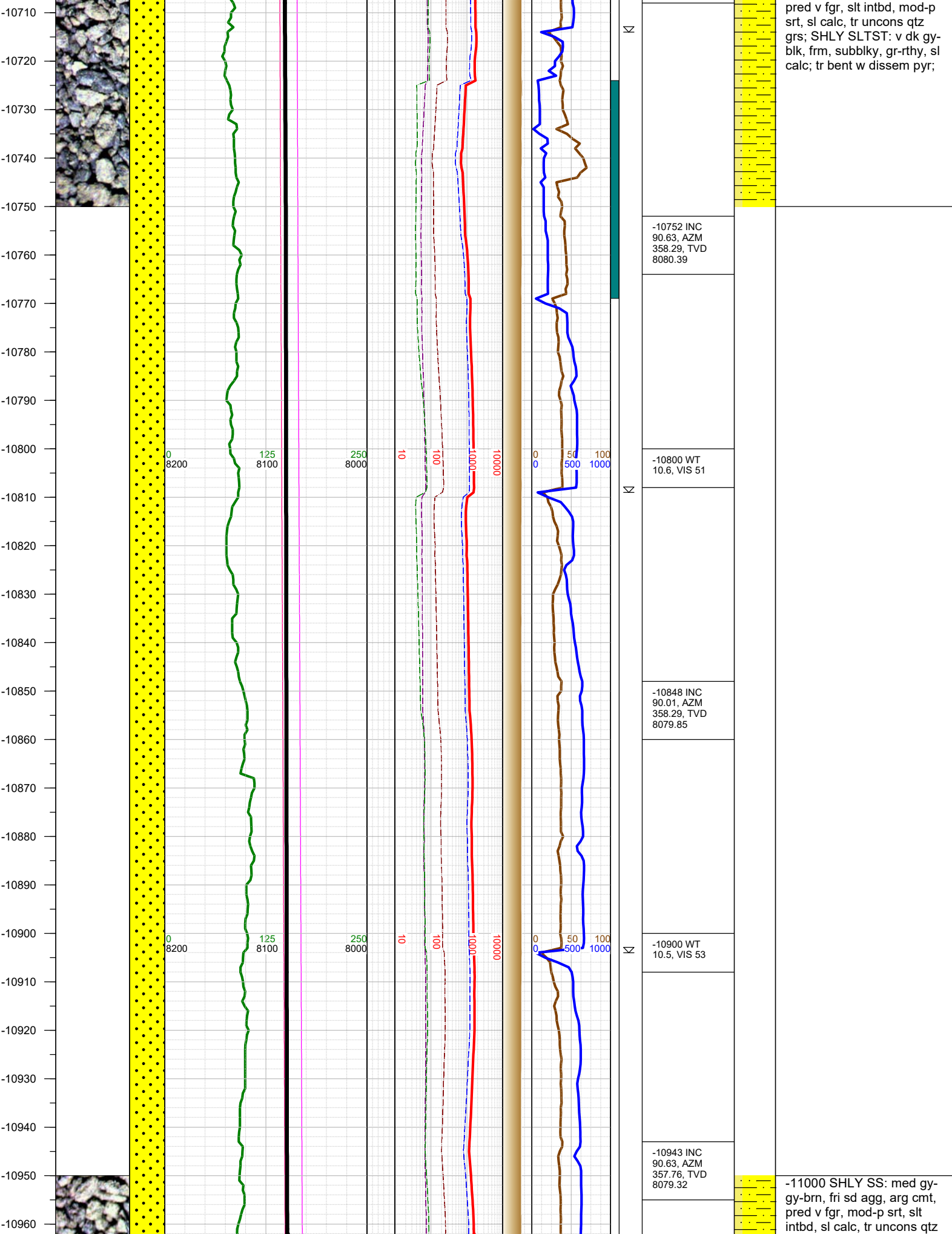


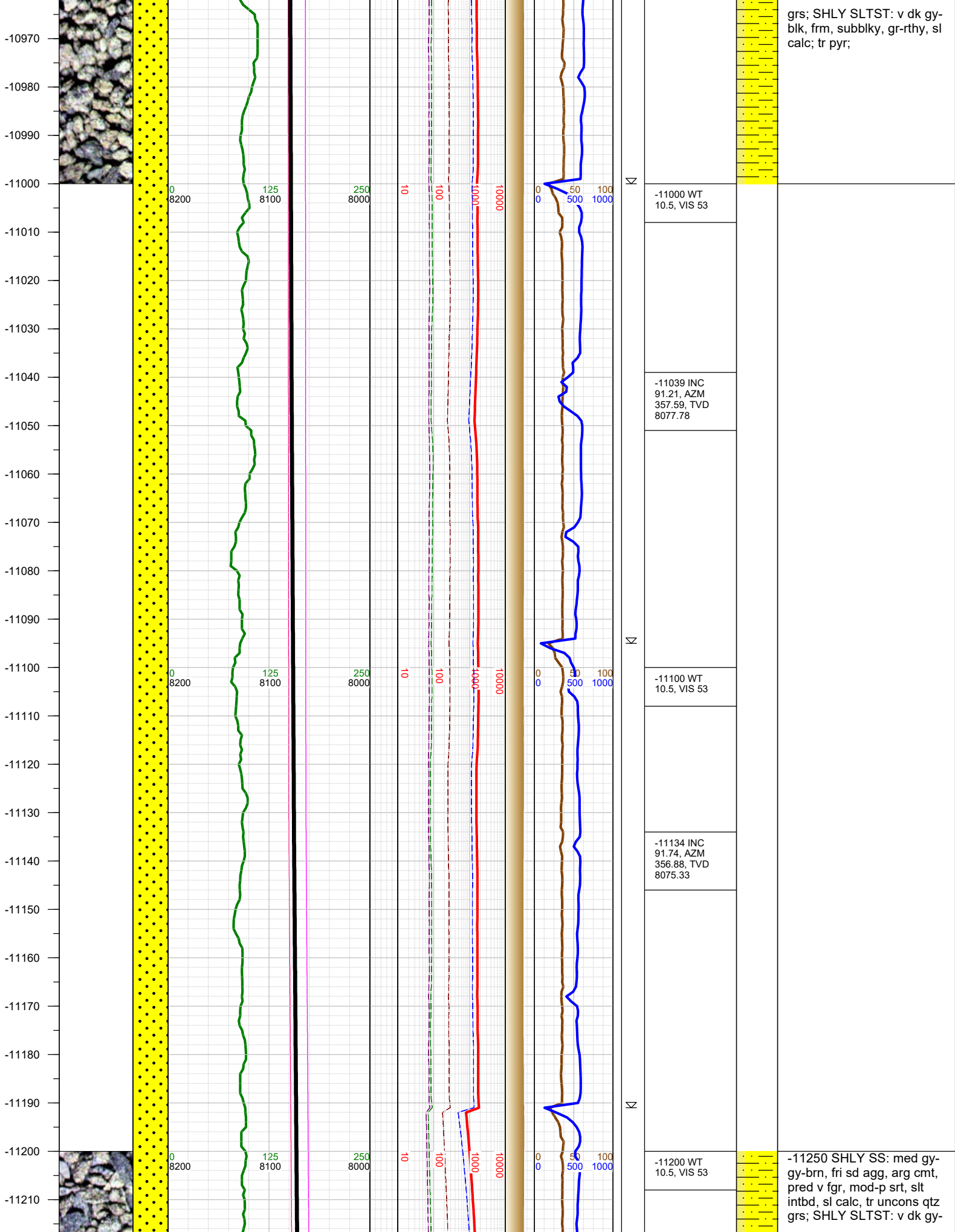


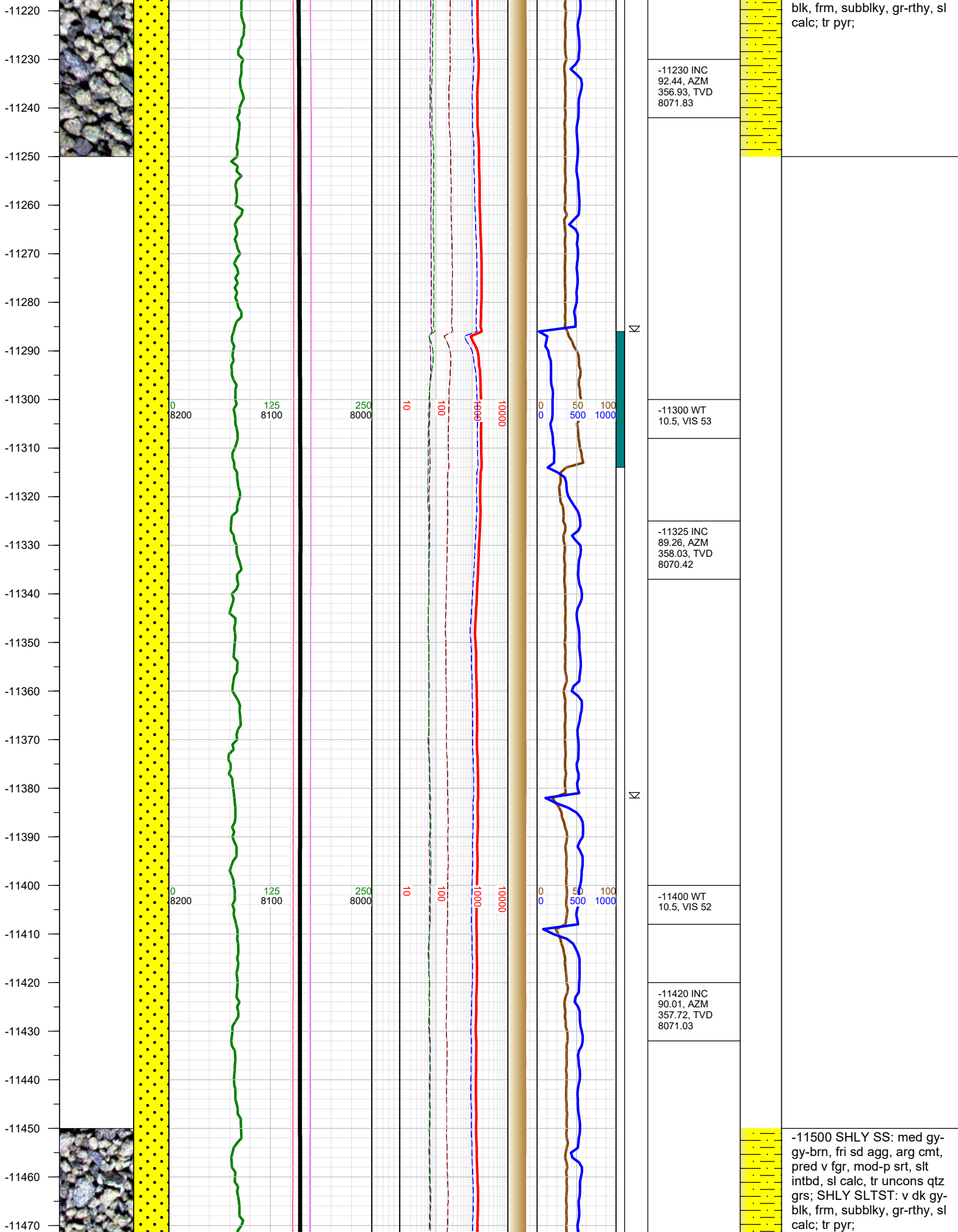






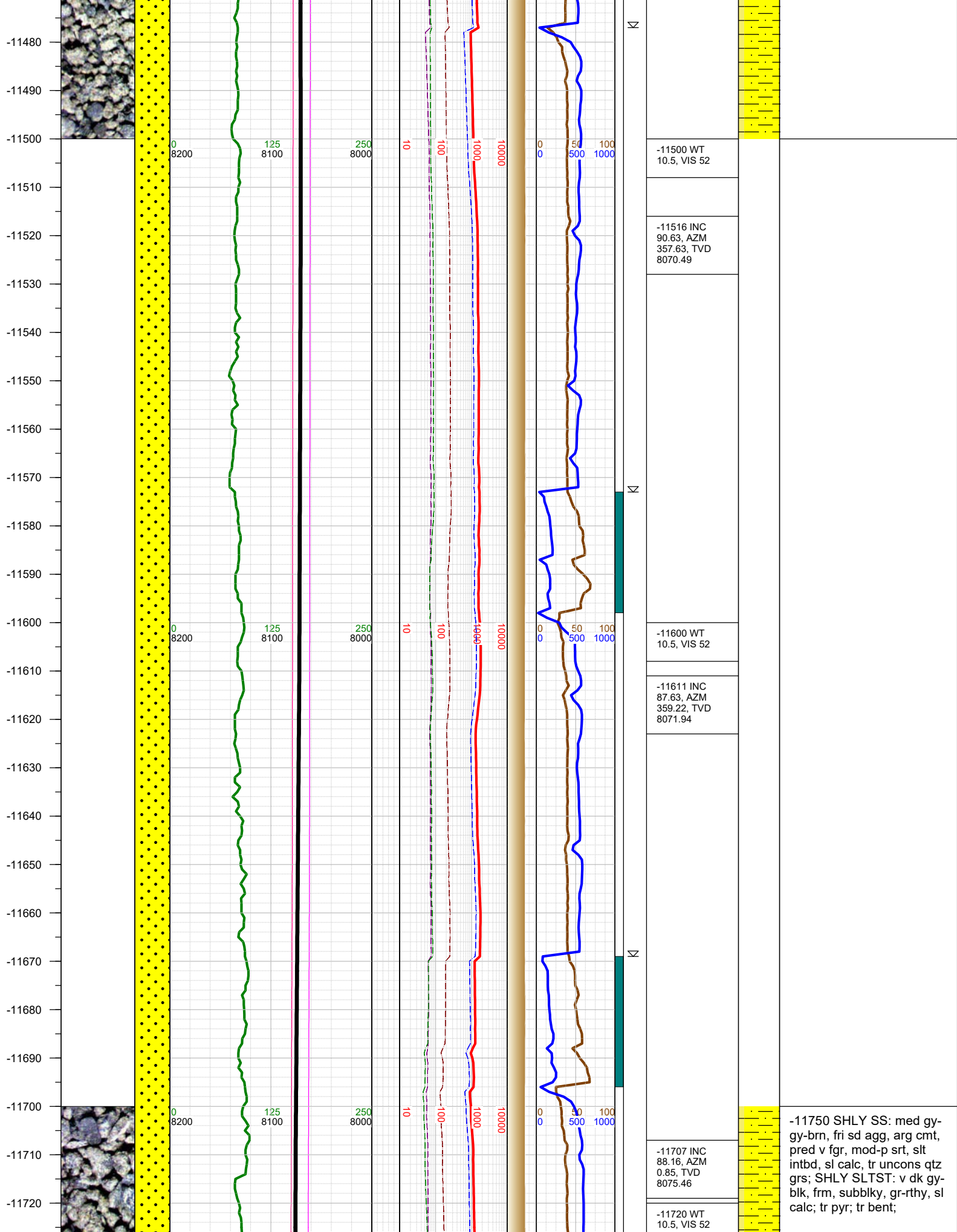




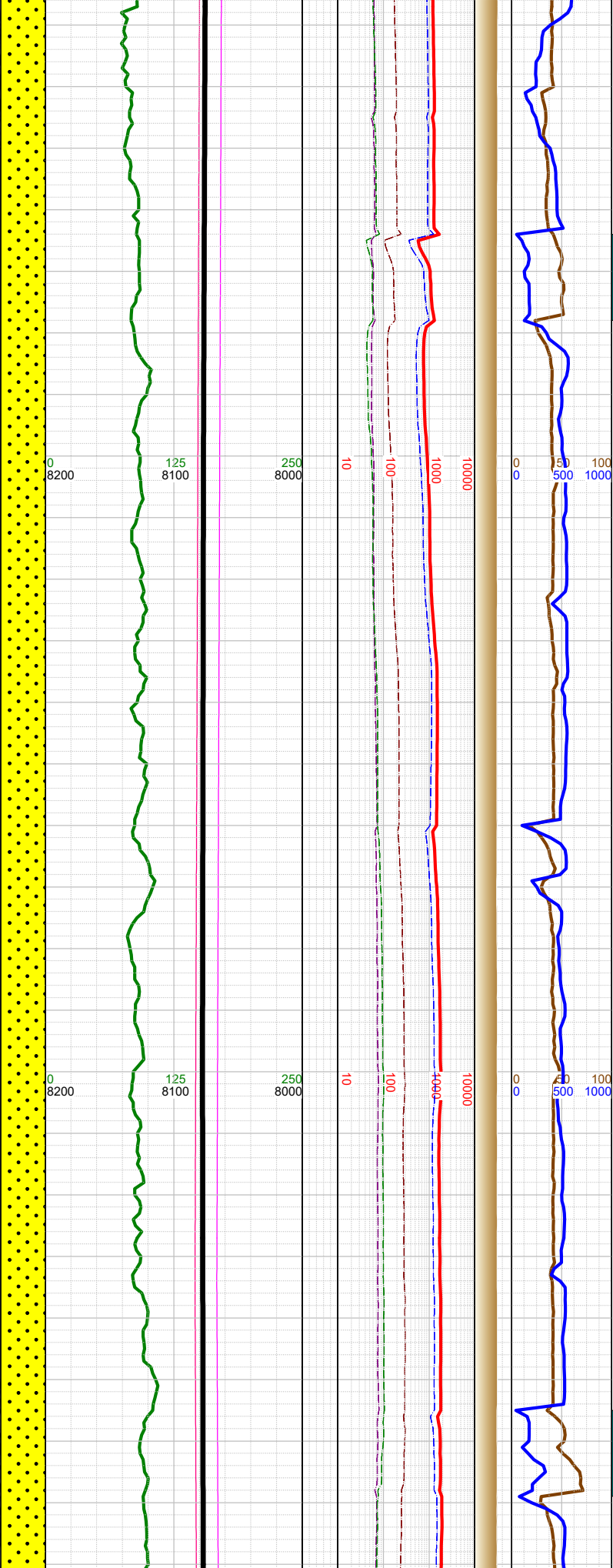
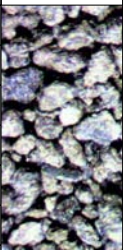


blk, frm, subblky, gr-rthy, sl
calc; tr pyr;

-11500 SHLY SS: med gy-
gy-brn, fri sd agg, arg cmt,
pred v fgr, mod-p srt, slt
intbd, sl calc, tr uncons qtz
grs; SHLY SLTST: v dk gy-
blk, frm, subblky, gr-rthy, sl
calc; tr pyr;



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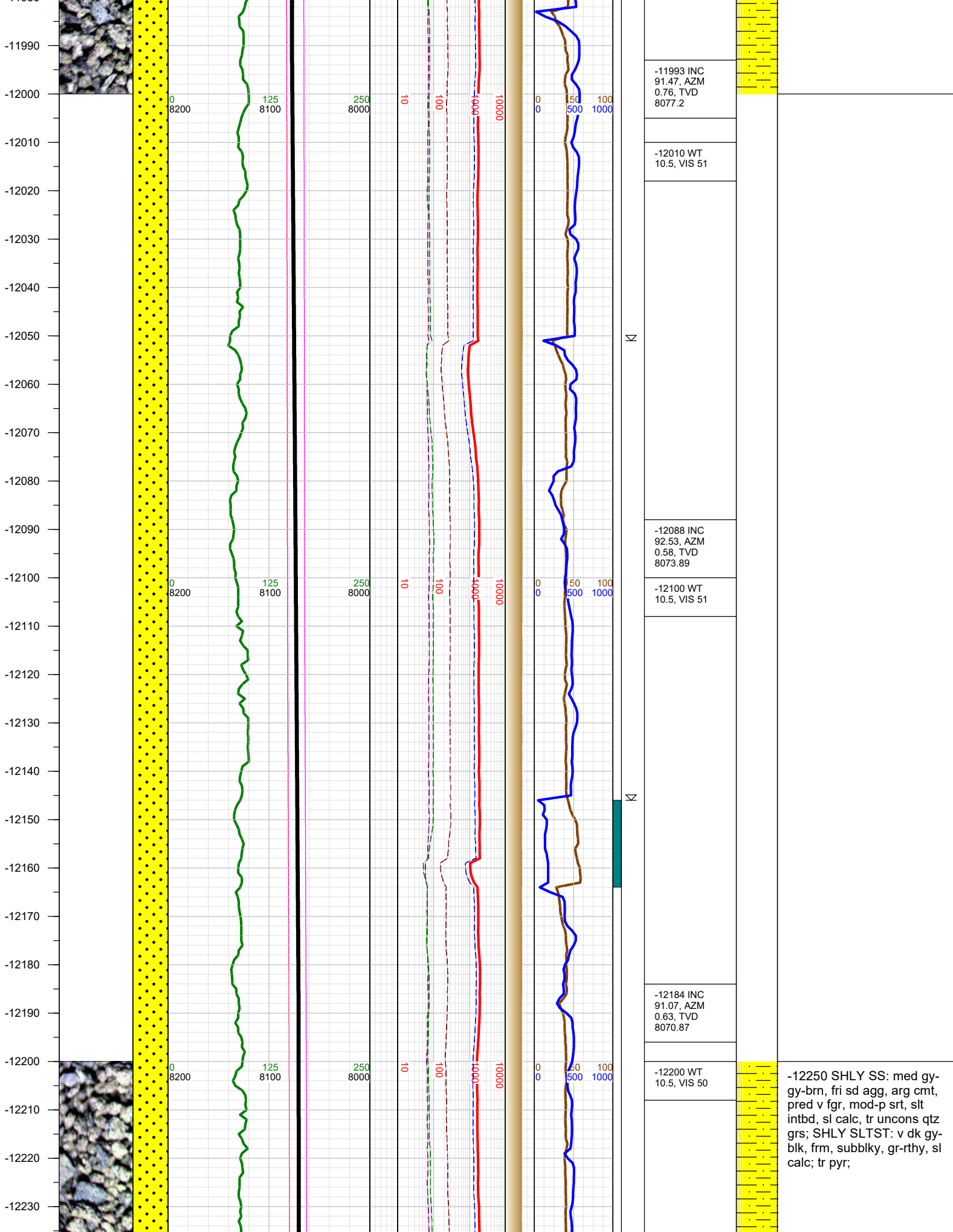


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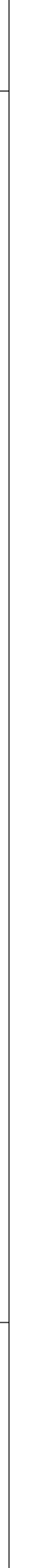
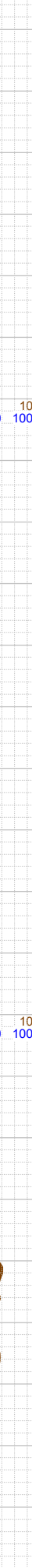
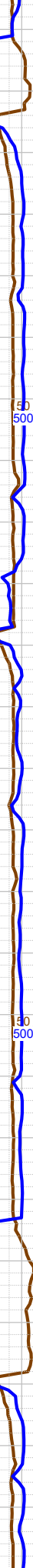
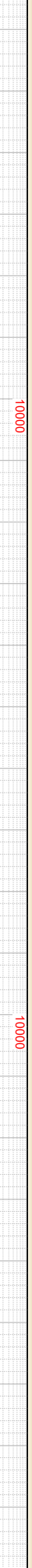
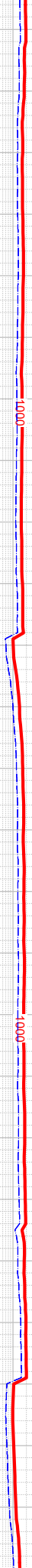
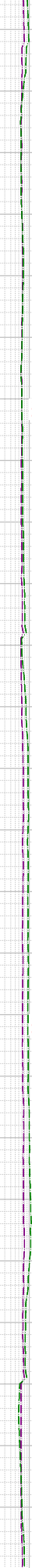
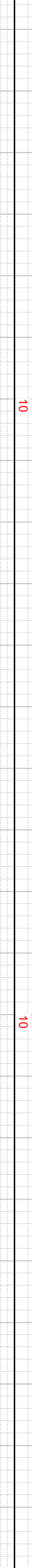
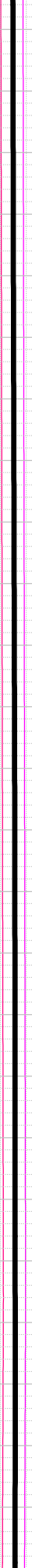
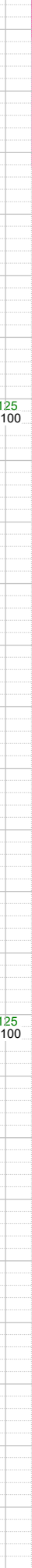
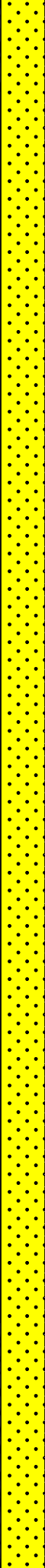
-11802 INC 89.88, AZM 0.76, TVD 8077.09
-11820 WT 10.5, VIS 52
-11898 INC 89.26, AZM 0.36, TVD 8077.81
-11910 WT 10.5, VIS 51



-12000 SHLY SS: med gy-
gy-brn, fri sd agg, arg cmt,
pred v fgr, mod-p srt, slt
intbd, sl calc, tr uncons qtz
grs; SHLY SLTST: v dk gy-
blk, frm, subblky, gr-rthy, sl
calc; tr pyr;



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-12279 INC
89.84, AZM
0.89, TVD
8070.12

-12300 WT
10.5, VIS 50

-12375 INC
91.52, AZM
0.94, TVD
8068.98

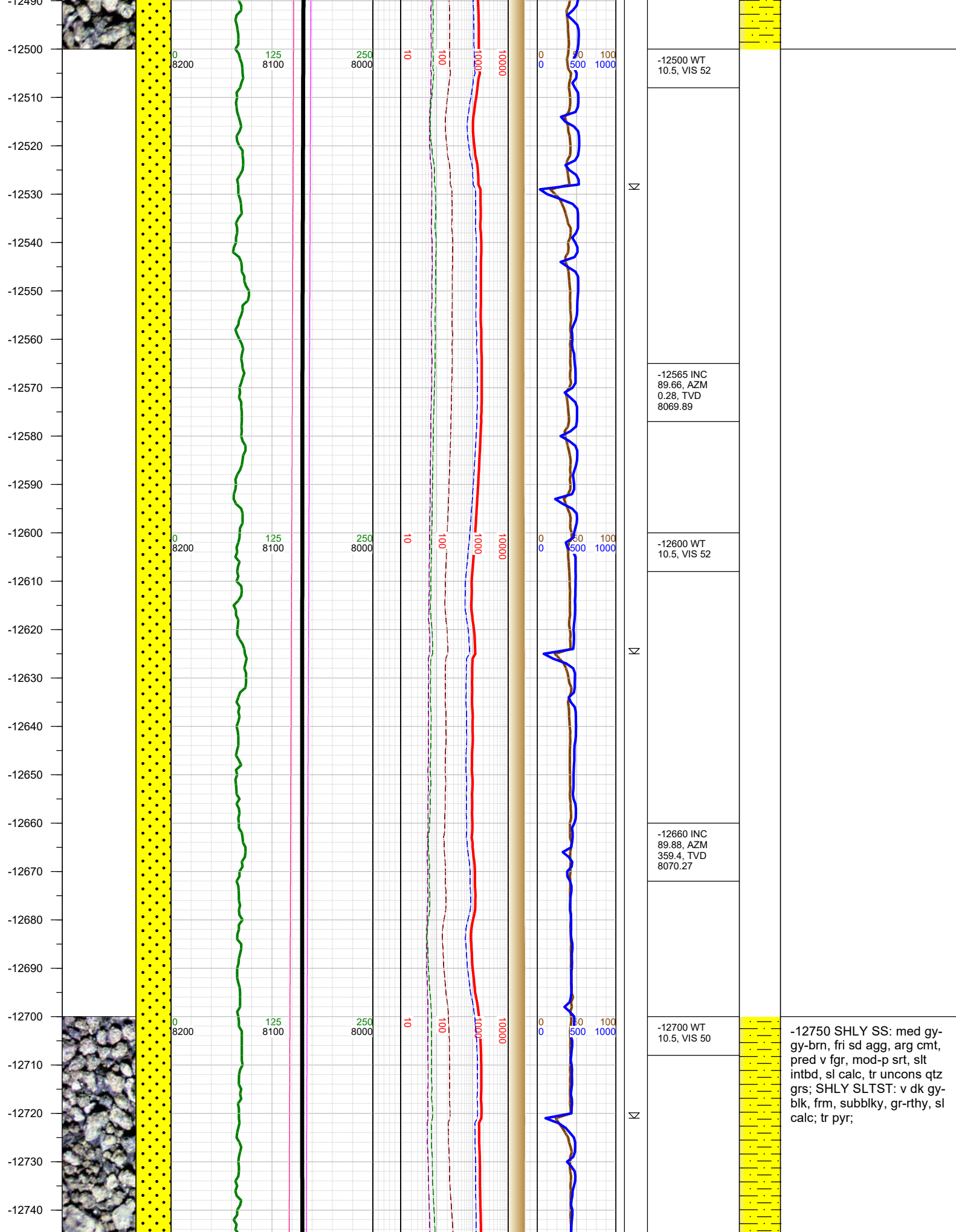
-12400 WT
10.5, VIS 50

-12433 0000 hrs
on 5/29/2019

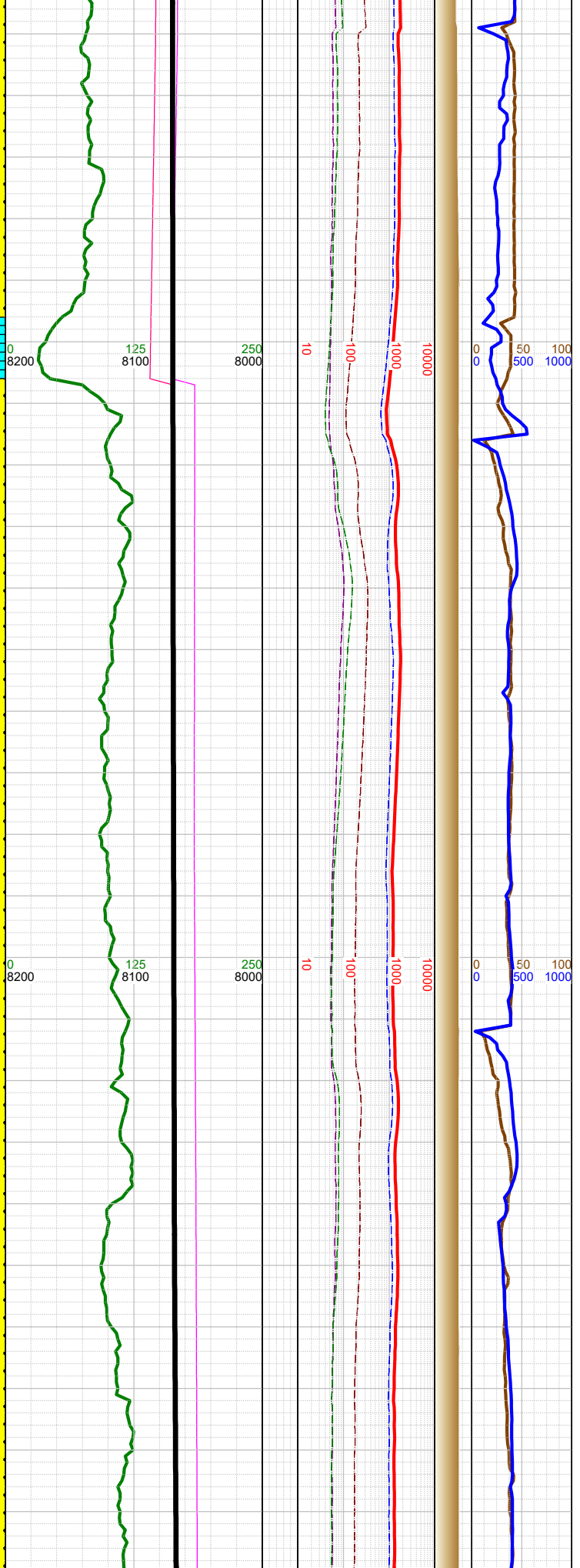
-12470 INC
88.86, AZM
0.54, TVD
8068.66



-12500 SHLY SS: med gy-
gy-brn, fri sd agg, arg cmt,
pred v fgr, mod-p srt, slt
intbd, sl calc, tr unconsl qtz
grs; SHLY SLTST: v dk gy-
blk, frm, subblky, gr-rthy, sl
calc; tr pyr;



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-12990



-12756 INC
90.41, AZM
358.82, TVD
8070.03

-12806 Fault:
18' up-throw;
went from Ft.
Hays to Codell

-12820 WT
10.5, VIS 50

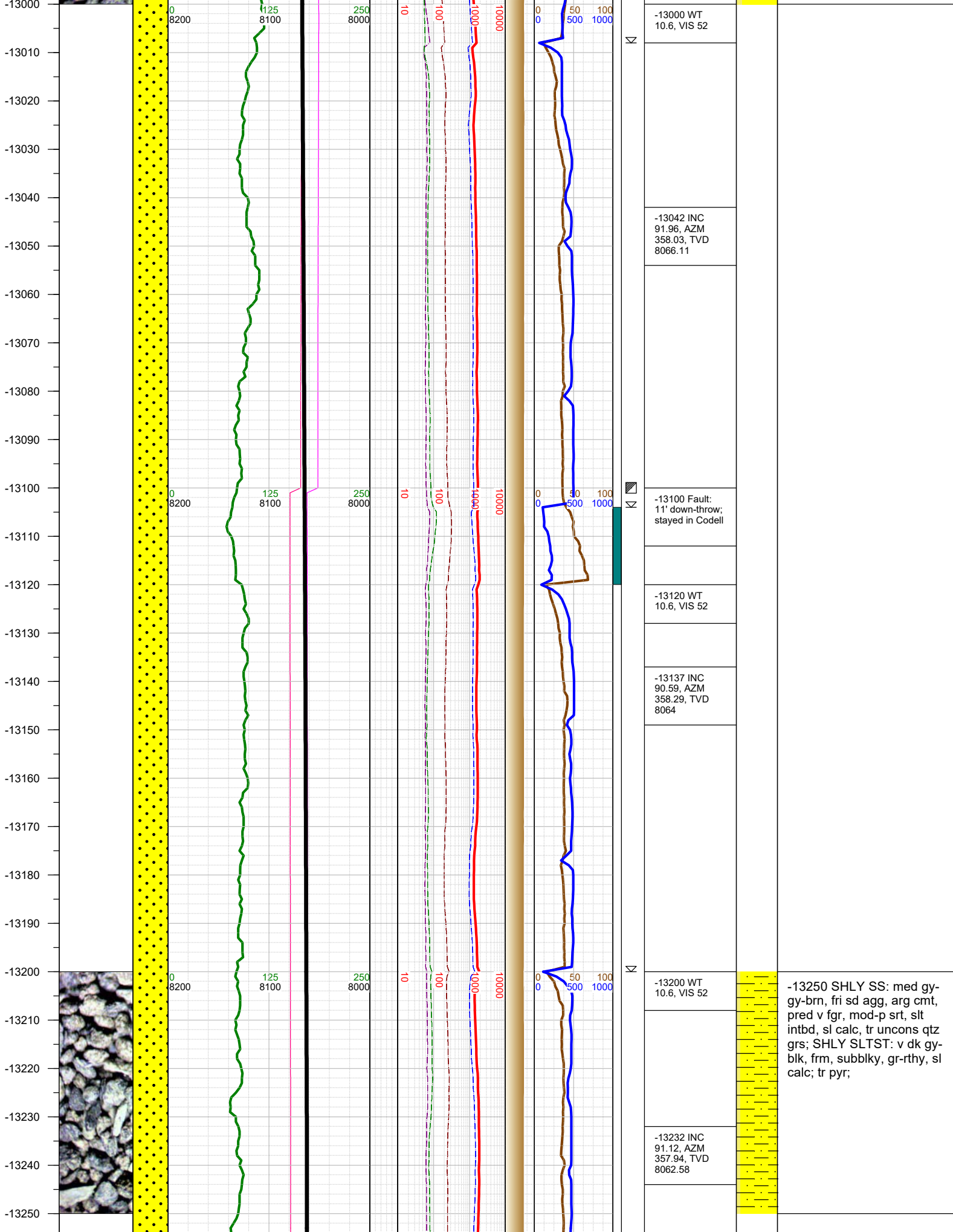
-12851 INC
90.23, AZM
357.15, TVD
8069.5

-12900 WT
10.6, VIS 52

-12947 INC
90.94, AZM
357.99, TVD
8068.52

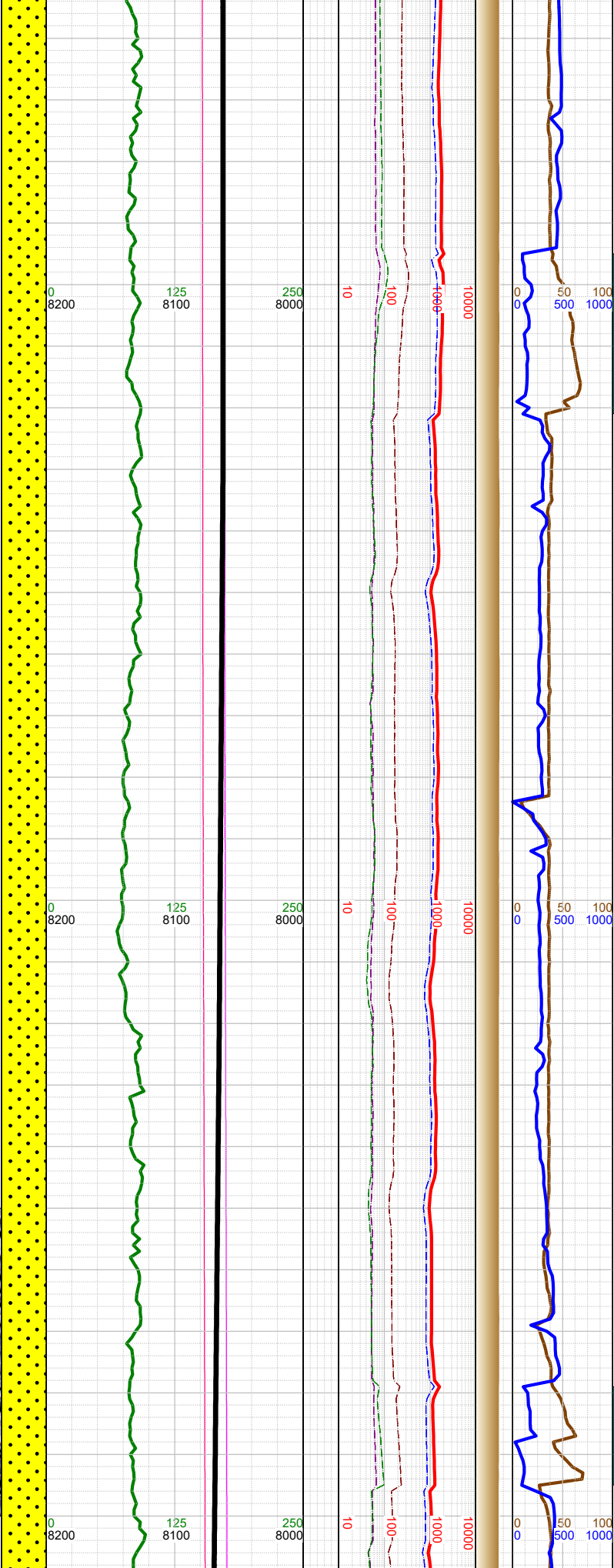
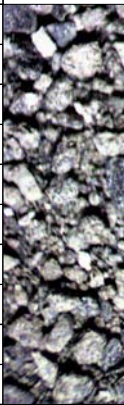


-13000 SHLY SS: med gy-
gy-brn, fri sd agg, arg cmt,
pred v fgr, mod-p srt, slt
intbd, sl calc, tr uncons qtz
grs; SHLY SLTST: v dk gy-
blk, frm, subblky, gr-rthy, sl
calc; tr pyr;



-13250 SHLY SS: med gy-gy-brn, fri sd agg, arg cmt, pred v fgr, mod-p srt, slt intbd, sl calc, tr uncons qtz grs; SHLY SLTST: v dk gy-blk, frm, subblky, gr-rthy, sl calc; tr pyr;

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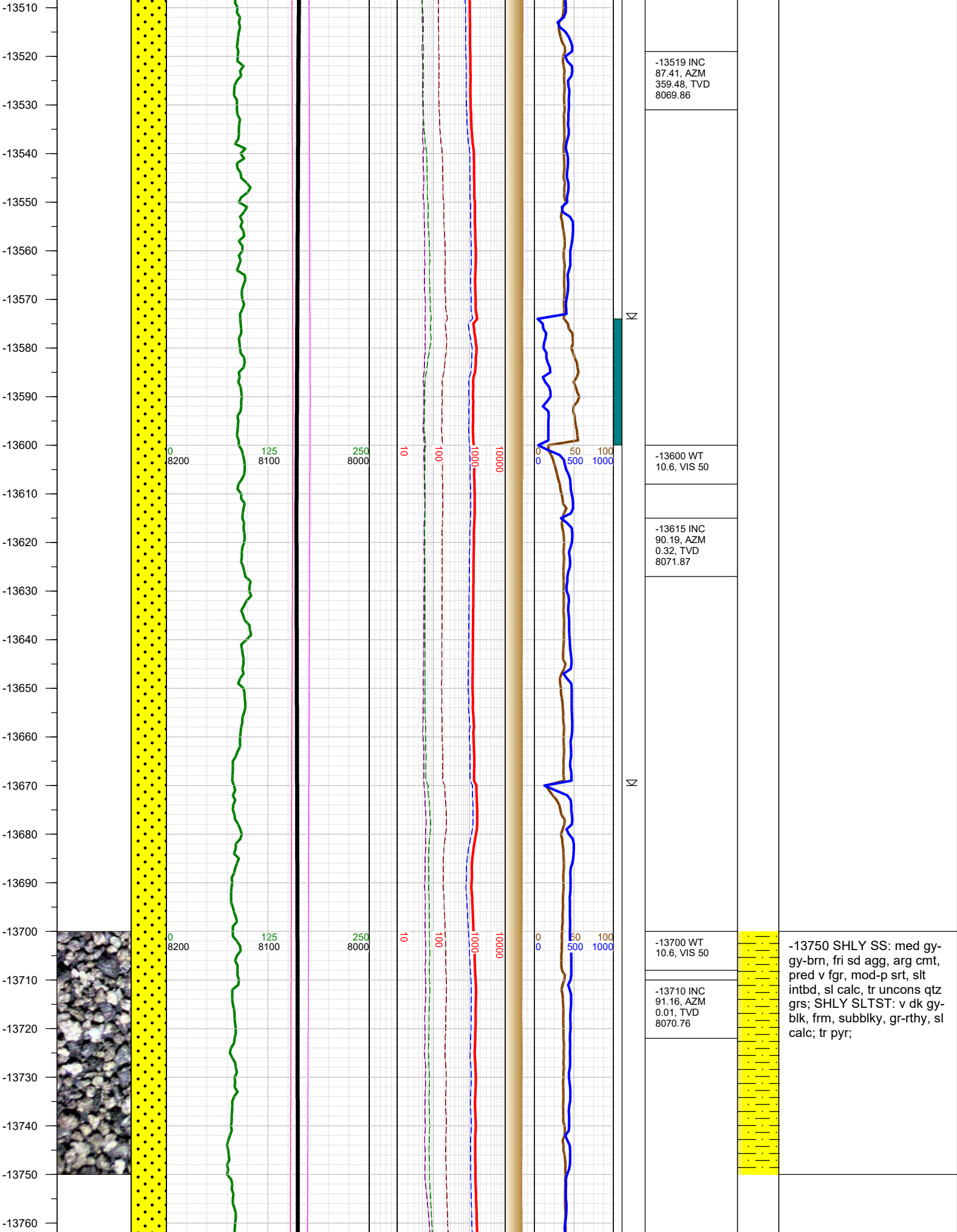


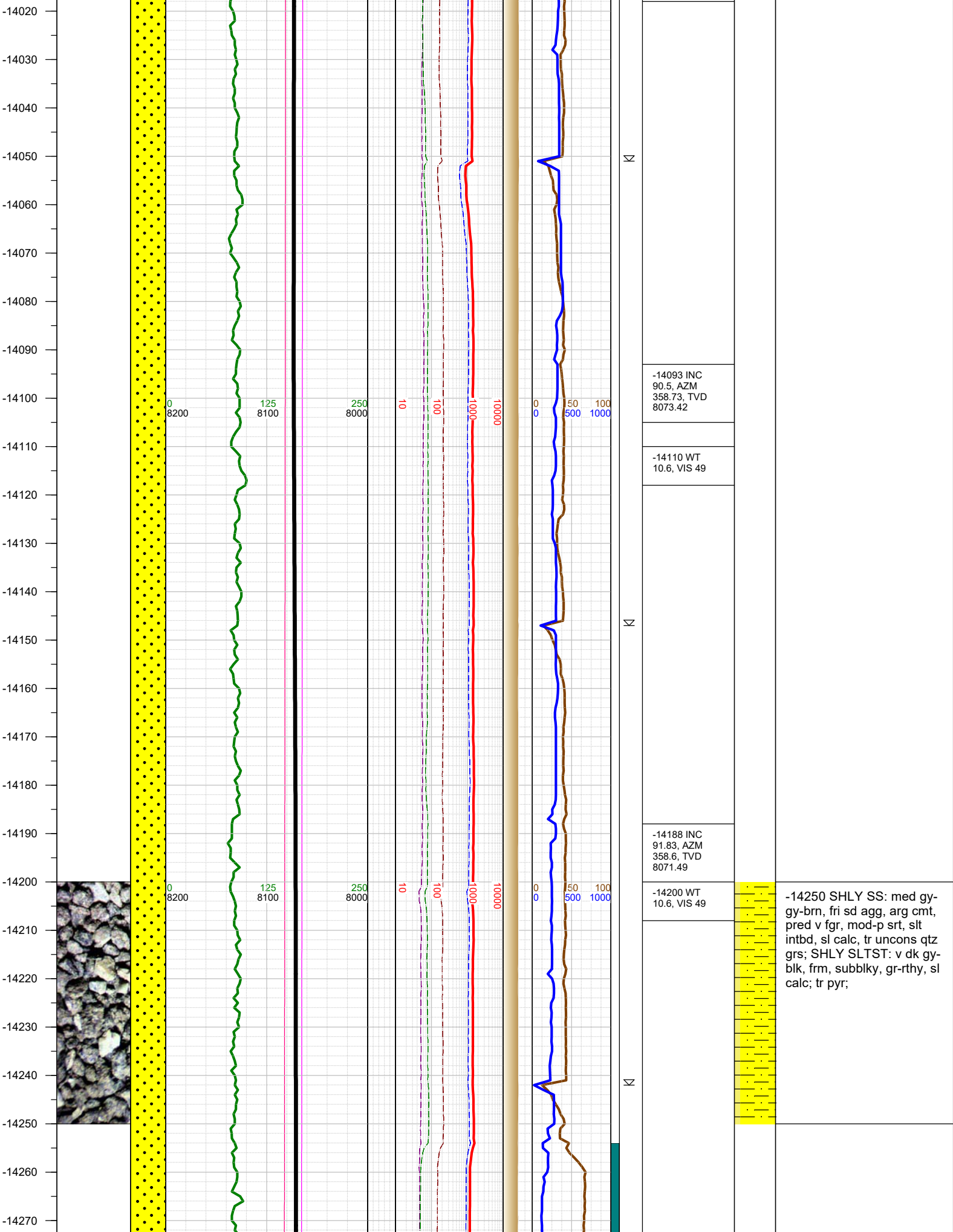
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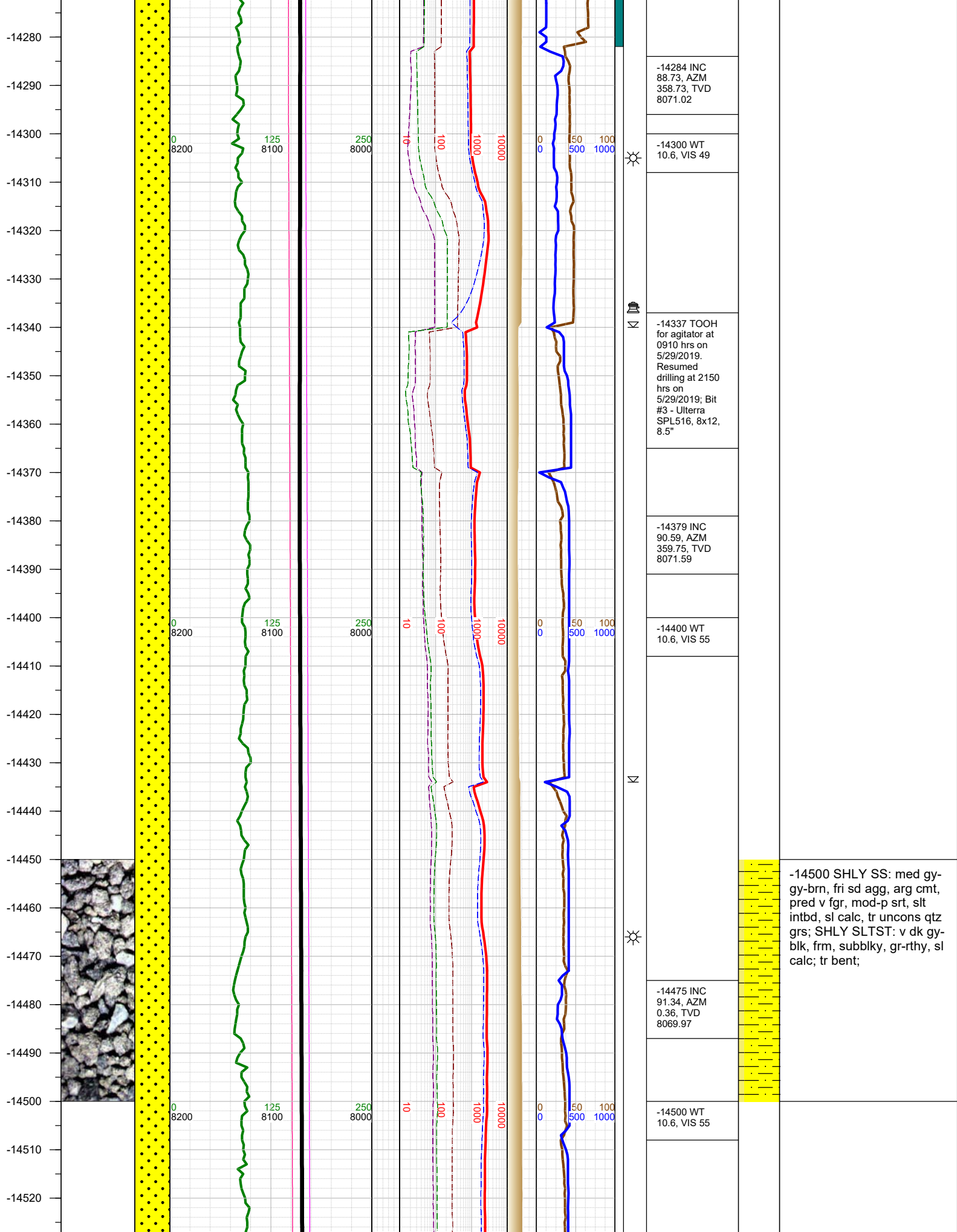
	-13300 WT 10.6, VIS 50
	-13328 INC 89, AZM 359.4, TVD 8062.48
	-13400 WT 10.6, VIS 50
	-13424 INC 87.36, AZM 359.26, TVD 8065.53
	-13500 WT 10.6, VIS 50



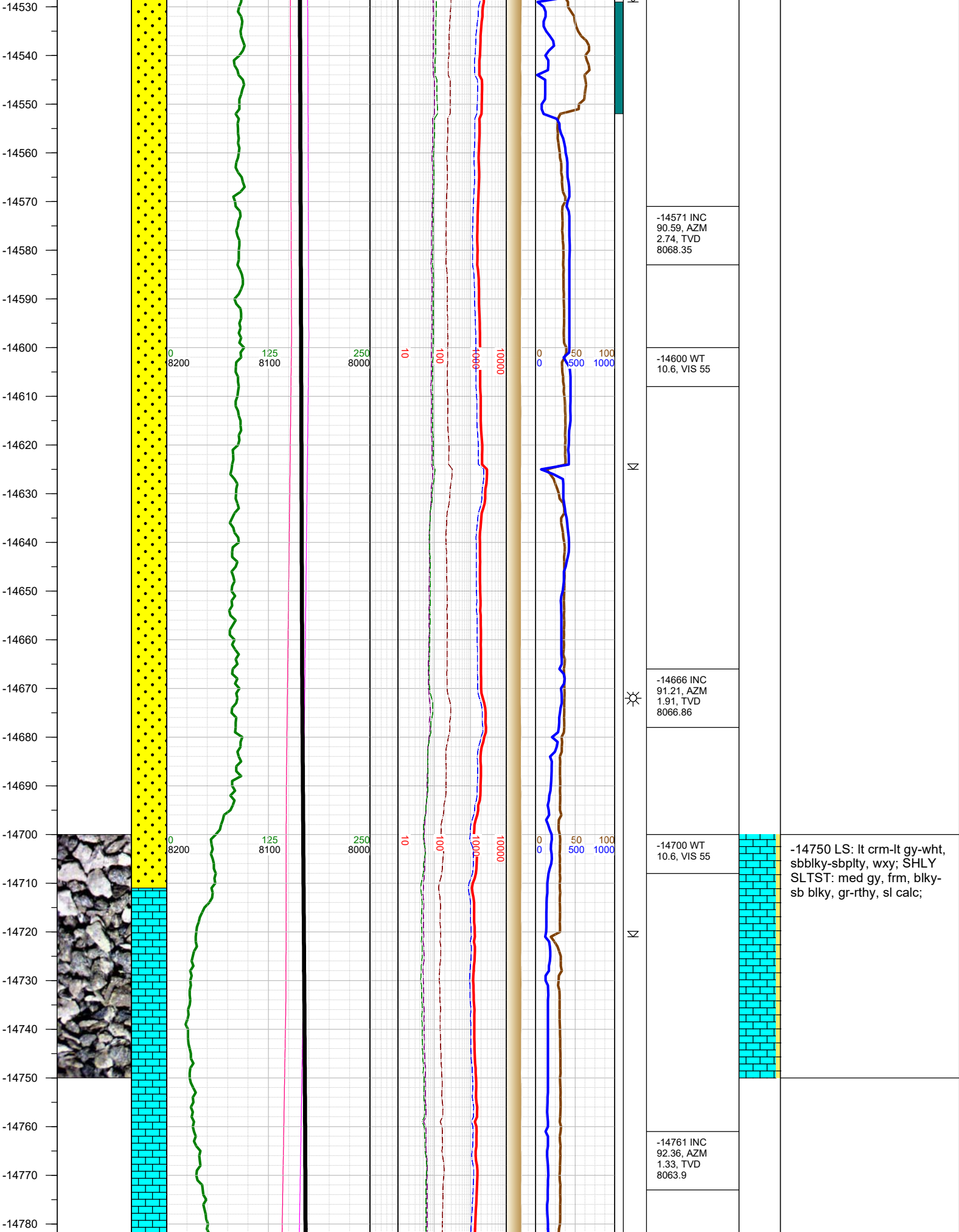
-13500 SHLY SS: med gy-
gy-brn, fri sd agg, arg cmt,
pred v fgr, mod-p srt, slt
intbd, sl calc, tr uncons qtz
grs; SHLY SLTST: v dk gy-
blk, frm, subblky, gr-rthy, sl
calc; tr pyr;

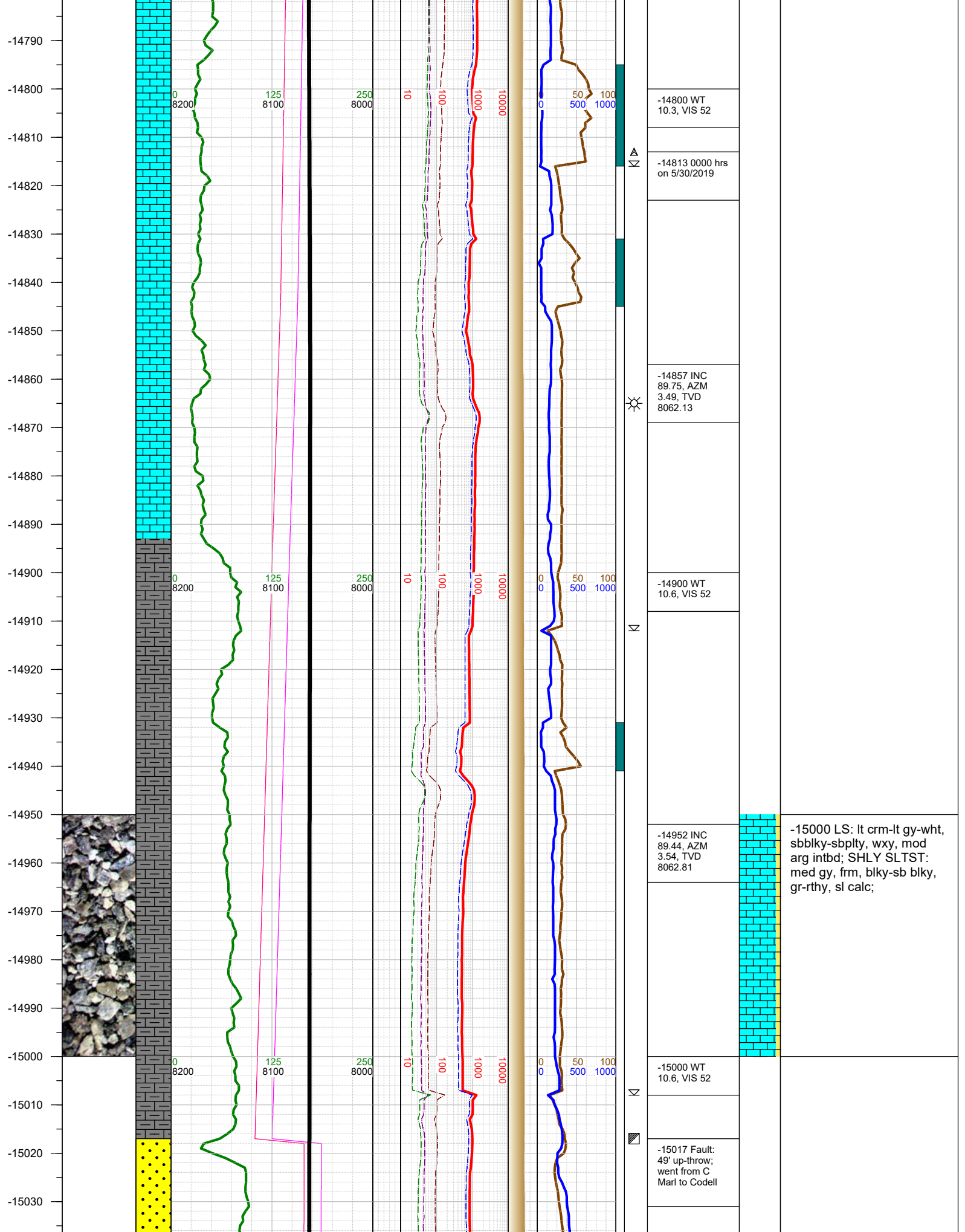


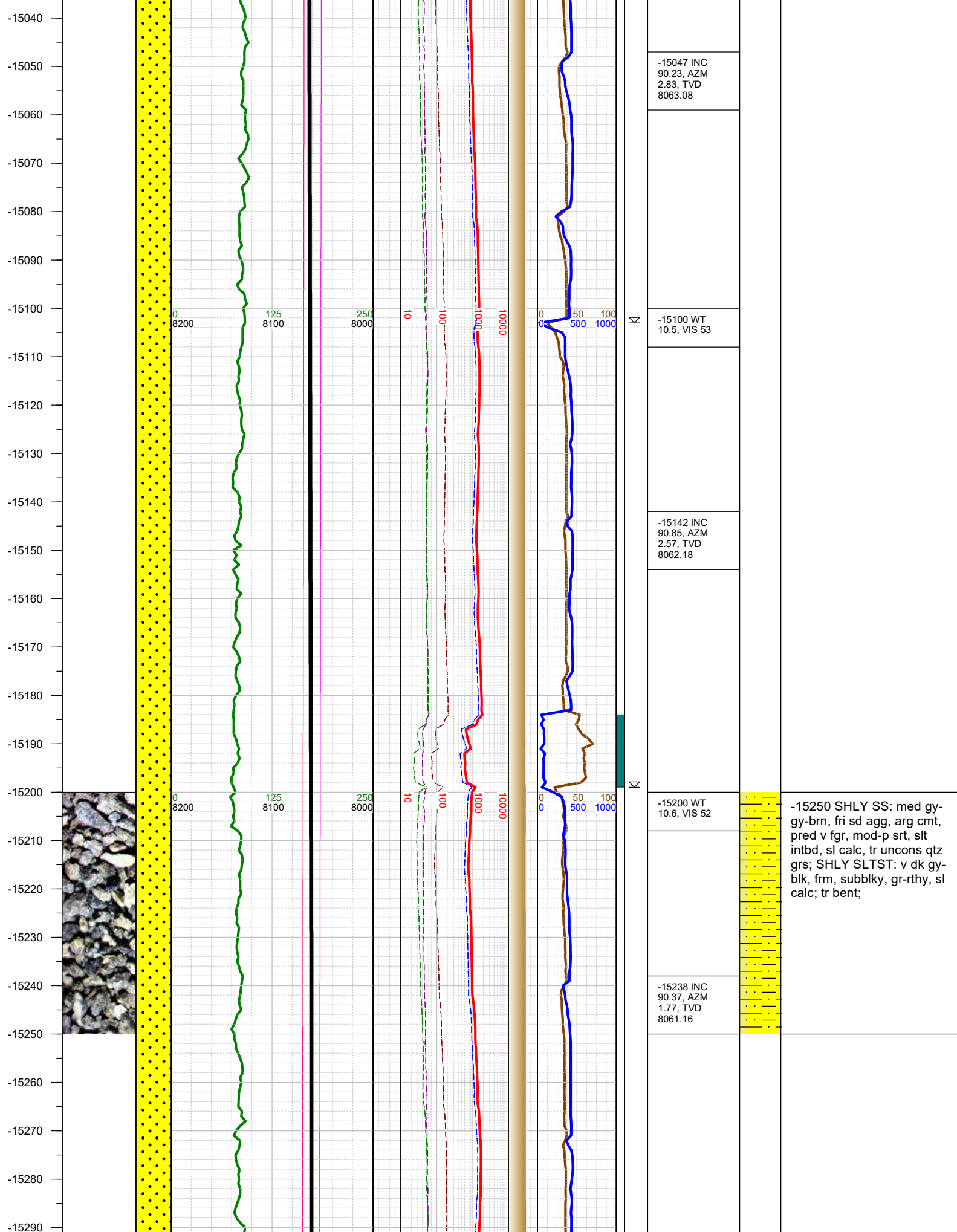


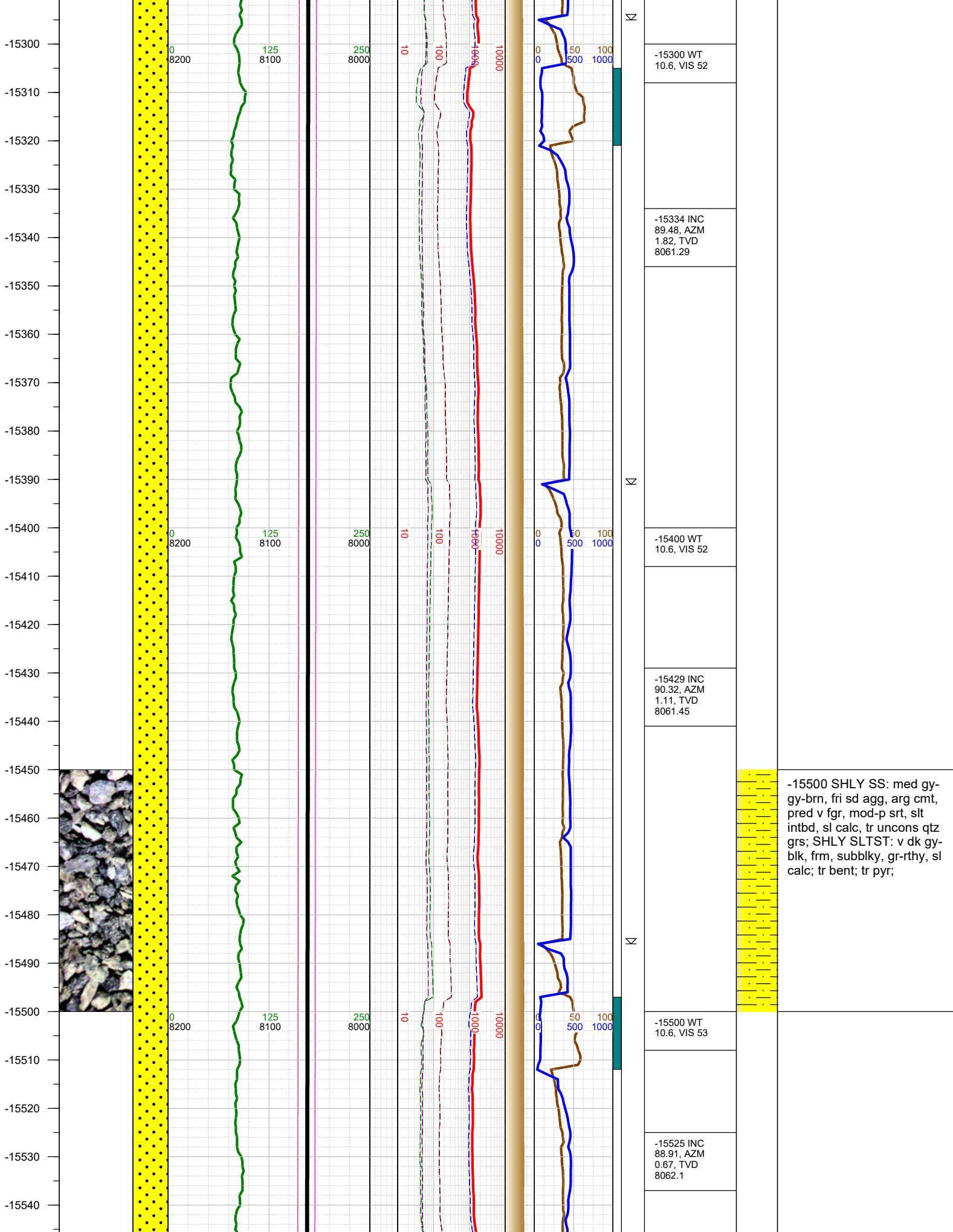


-14500 SHLY SS: med gy-gy-brn, fri sd agg, arg cmt, pred v fgr, mod-p srt, slt intbd, sl calc, tr uncons qtz grs; SHLY SLTST: v dk gy-blk, frm, subblky, gr-rthy, sl calc; tr bent;



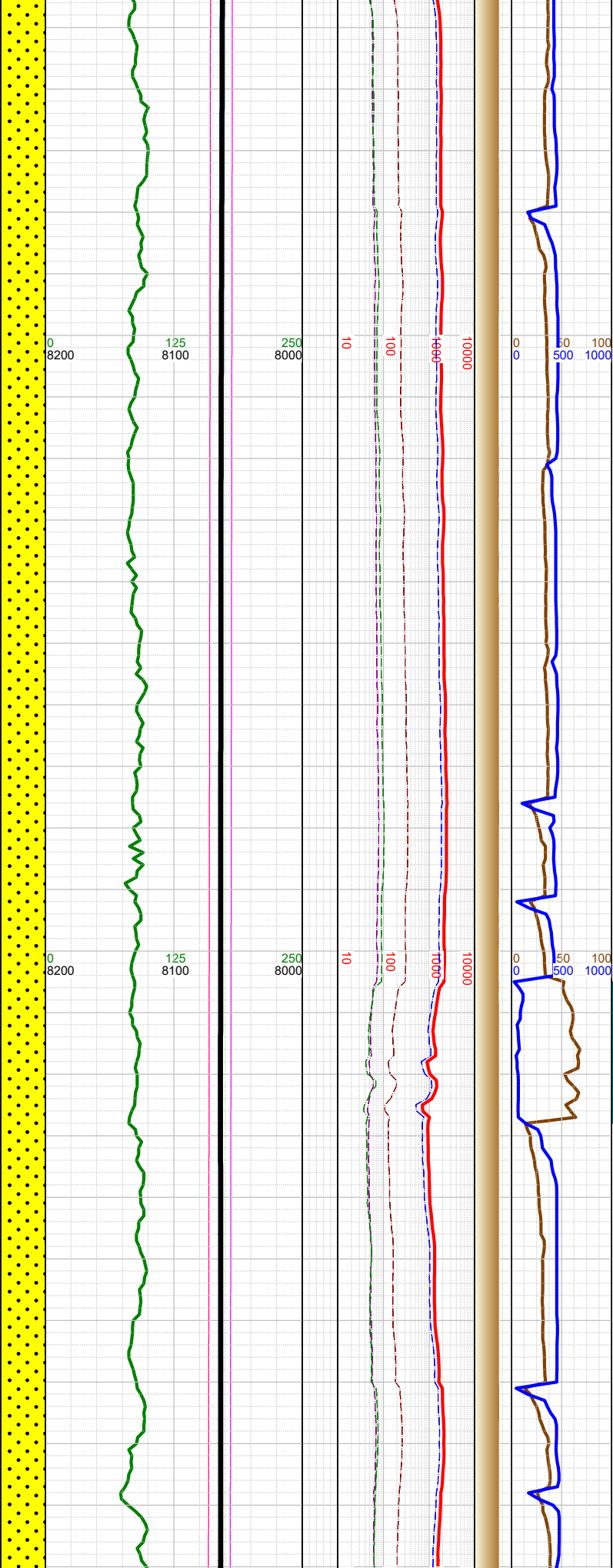






-15500 SHLY SS: med gy-gy-brn, fri sd agg, arg cmt, pred v fgr, mod-p srt, slt intbd, sl calc, tr unconsl qtz grs; SHLY SLTST: v dk gy-blk, frm, subblky, gr-rthy, sl calc; tr bent; tr pyr;

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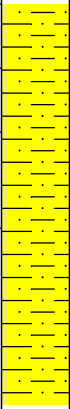


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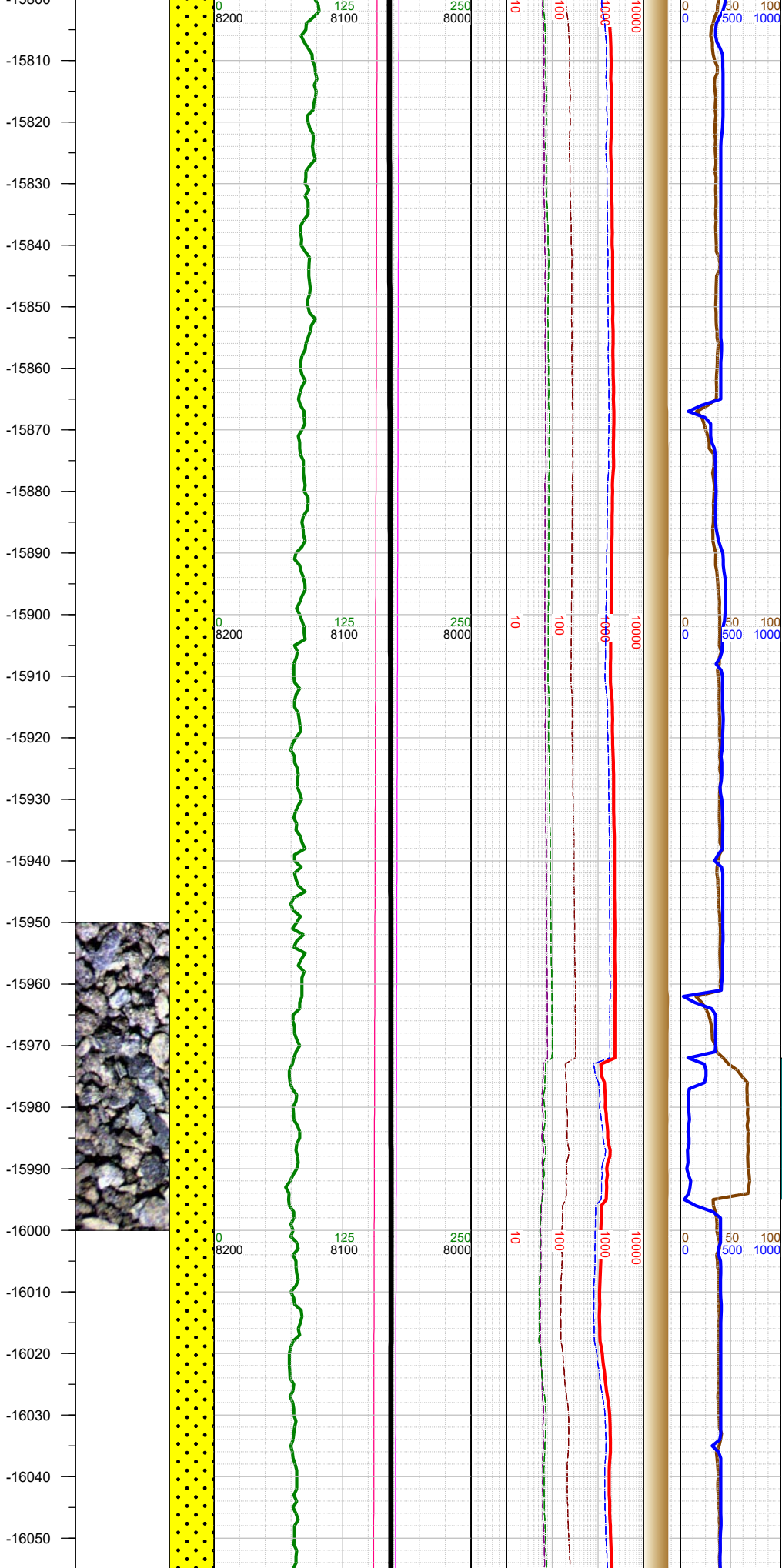
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-15600 WT 10.6, VIS 53	
-15620 INC 89.57, AZM 1.11, TVD 8063.36	
-15700 WT 10.6, VIS 53	
-15716 INC 89.93, AZM 359.62, TVD 8063.78	



-15750 SHLY SS: med gy-gy-brn, fri sd agg, arg cmt, pred v fgr, mod-p srt, slt intbd, sl calc, tr unconsl qtz grs; SHLY SLTST: v dk gy-blk, frm, subblky, gr-rthy, sl calc; tr bent;



-15800 WT
10.6, VIS 53

-15811 INC
90.15, AZM
359.44, TVD
8063.71

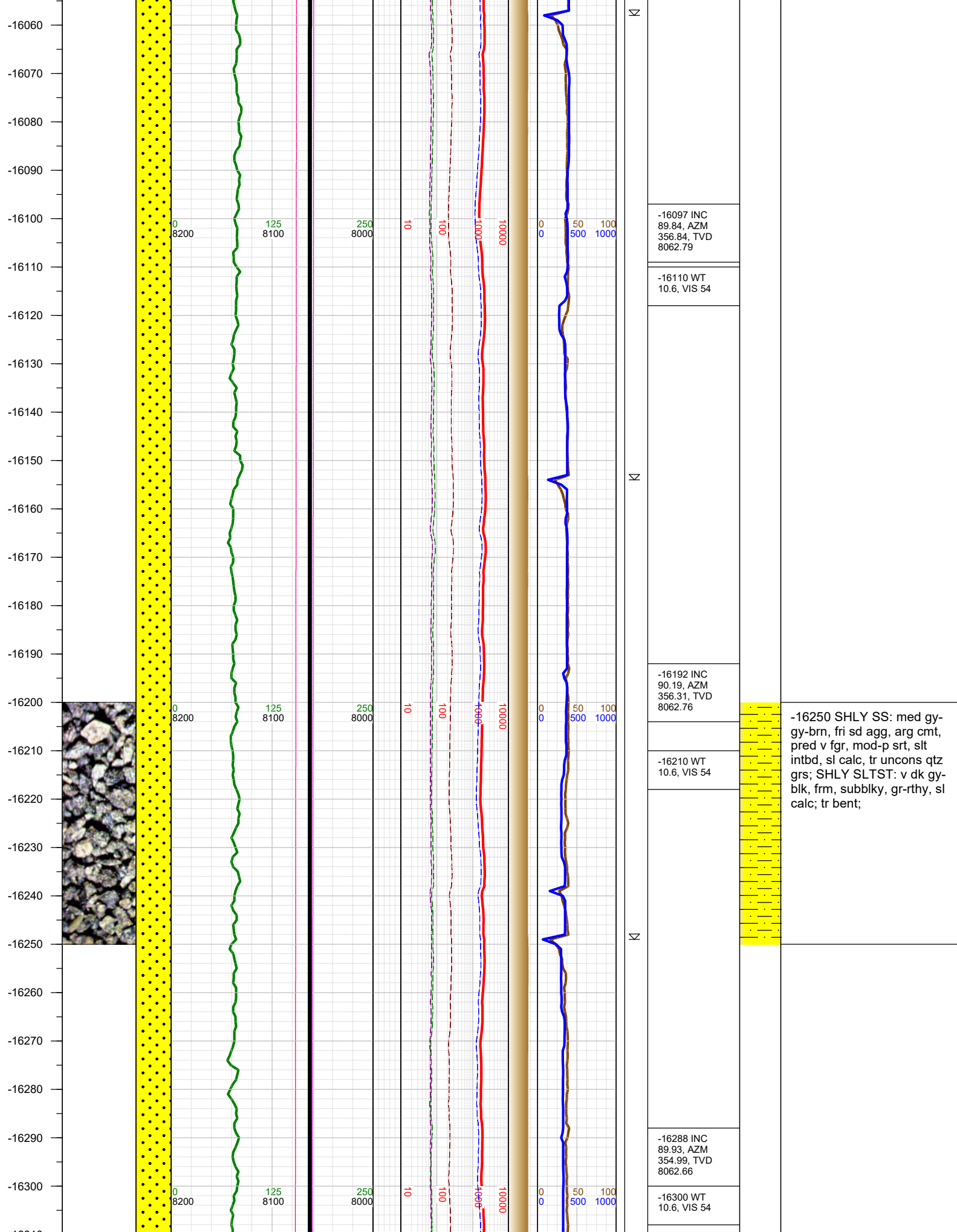
-15906 INC
90.94, AZM
359.31, TVD
8062.81

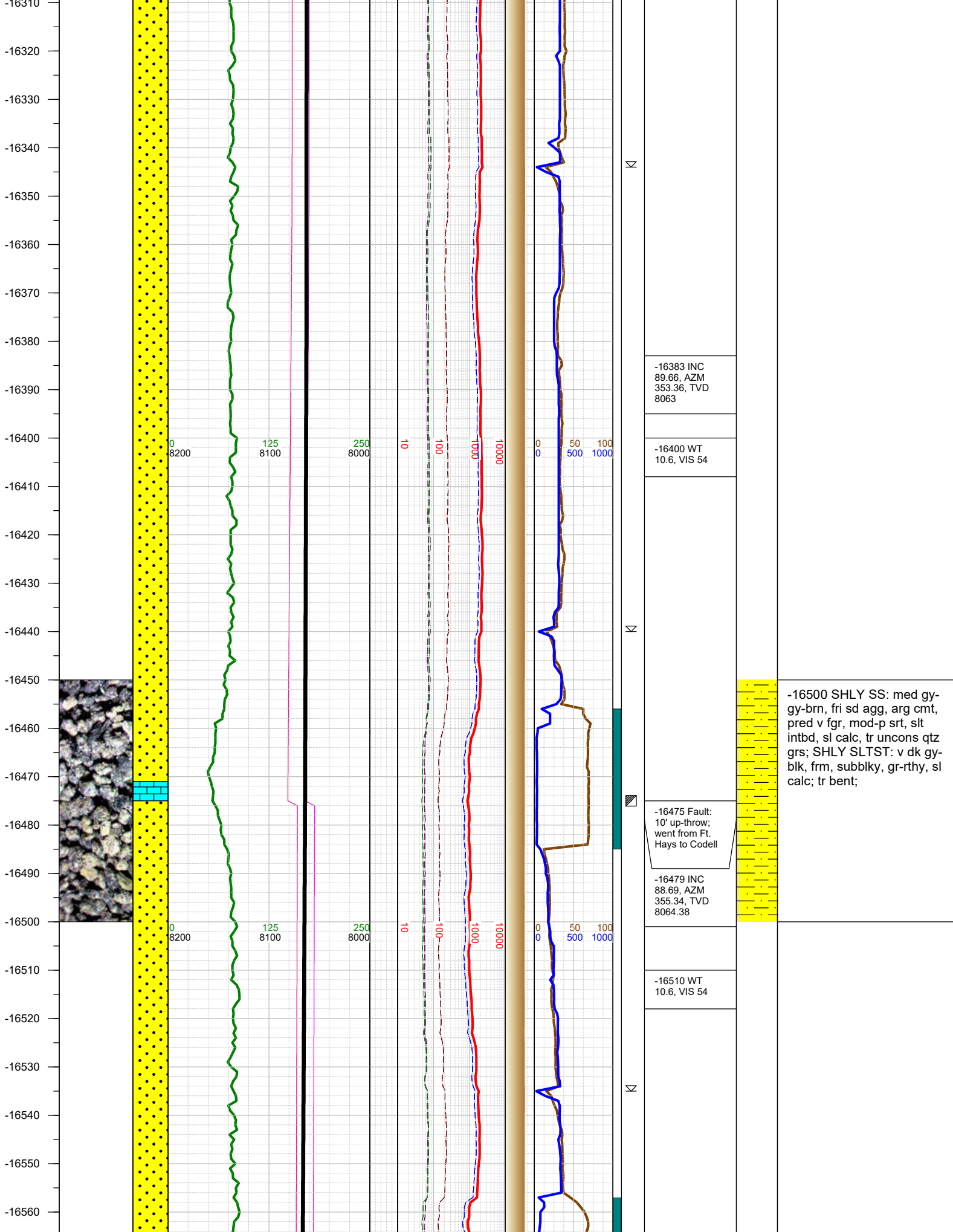
-15920 WT
10.6, VIS 54

-16002 INC
89.62, AZM
357.99, TVD
8062.34

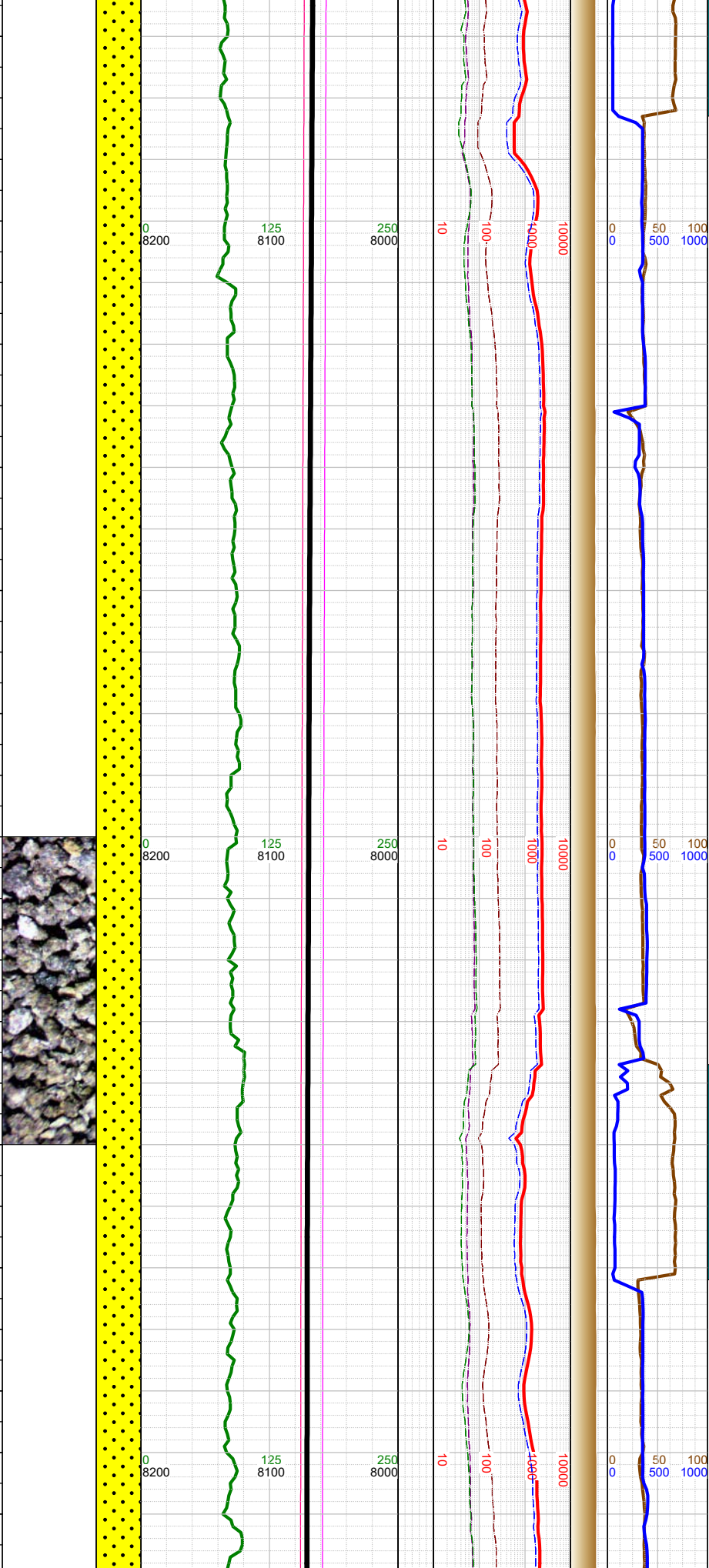
-16020 WT
10.6, VIS 54

-16000 SHLY SS: med gy-
gy-brn, fri sd agg, arg cmt,
pred v fgr, mod-p srt, slt
intbd, sl calc, tr uncons qtz
grs; SHLY SLTST: v dk gy-
blk, frm, subblky, gr-rthy, sl
calc; tr bent;



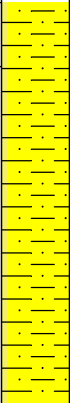


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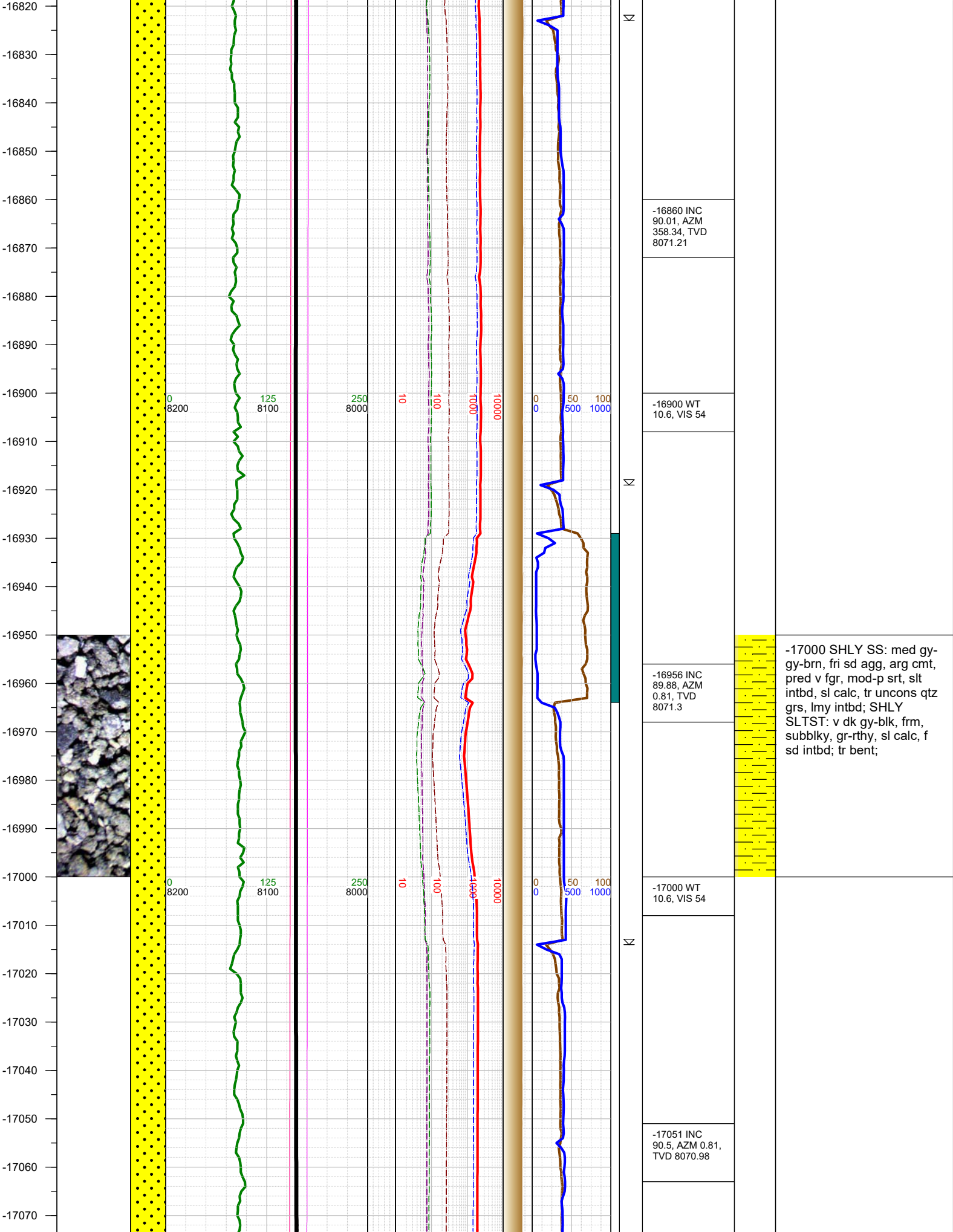


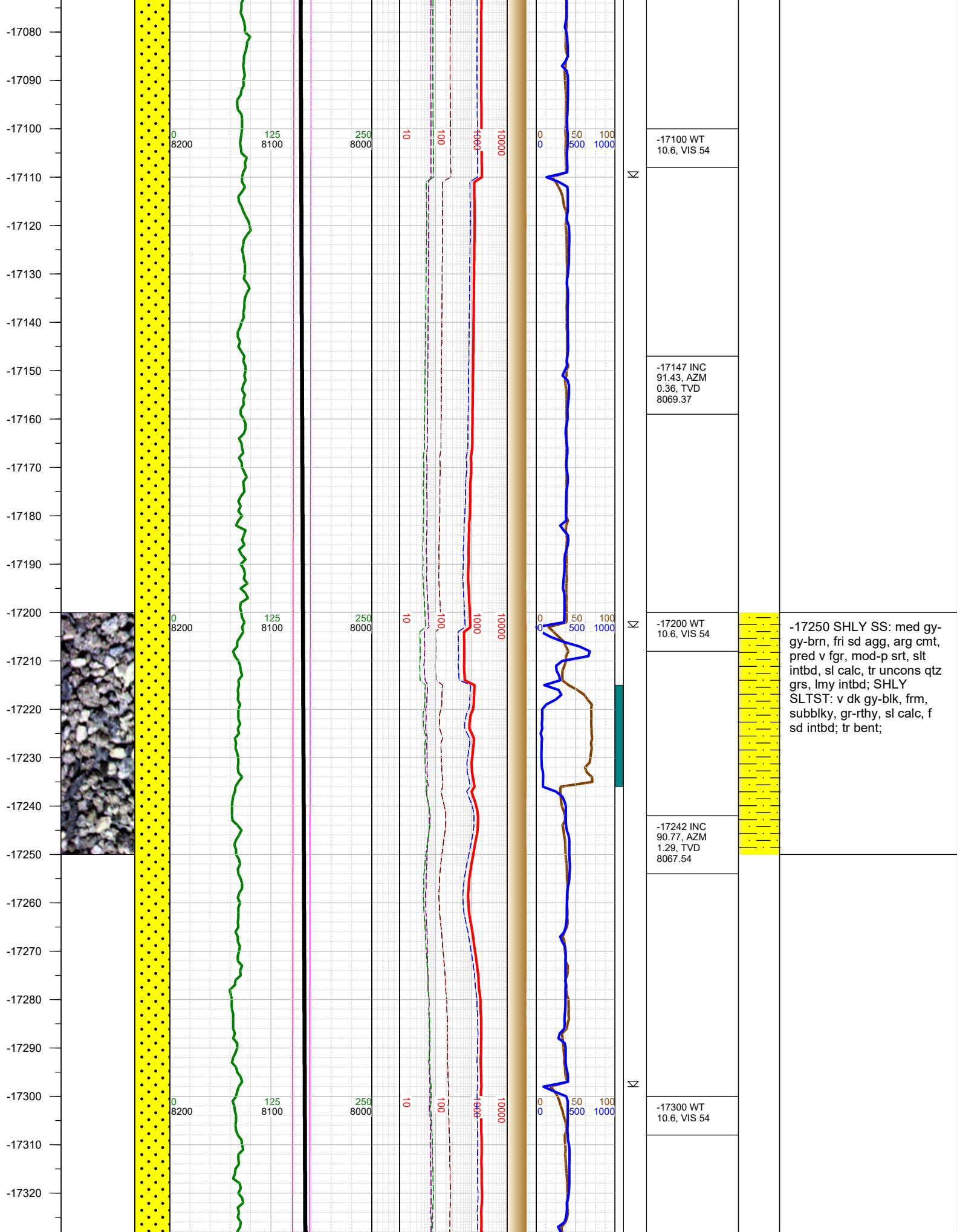
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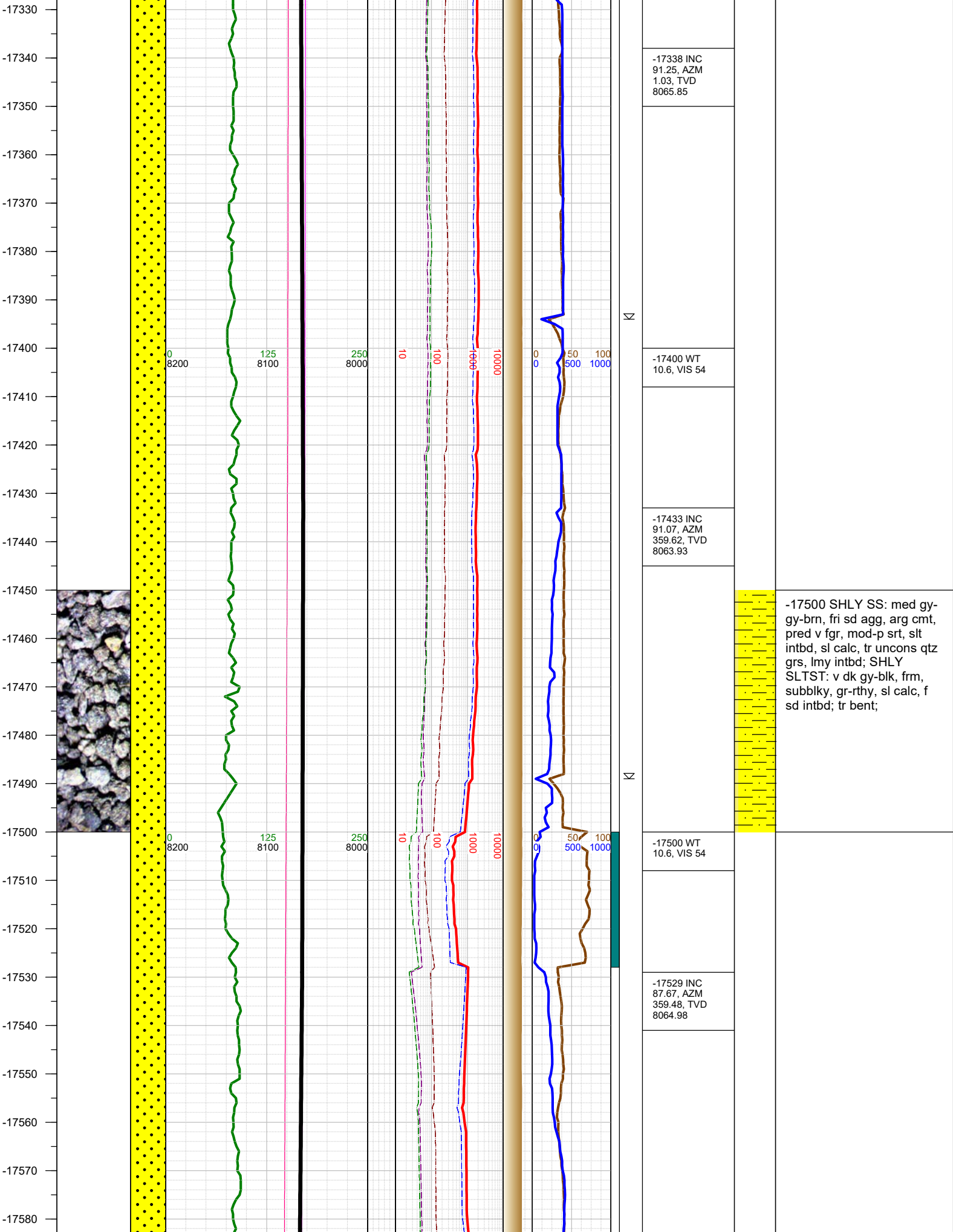
-16574 INC 88.42, AZM 356.71, TVD 8066.78
-16600 WT 10.6, VIS 54
-16670 INC 88.78, AZM 356.84, TVD 8069.12
-16700 WT 10.6, VIS 54
-16765 INC 89.35, AZM 358.82, TVD 8070.68
-16800 WT 10.6, VIS 54



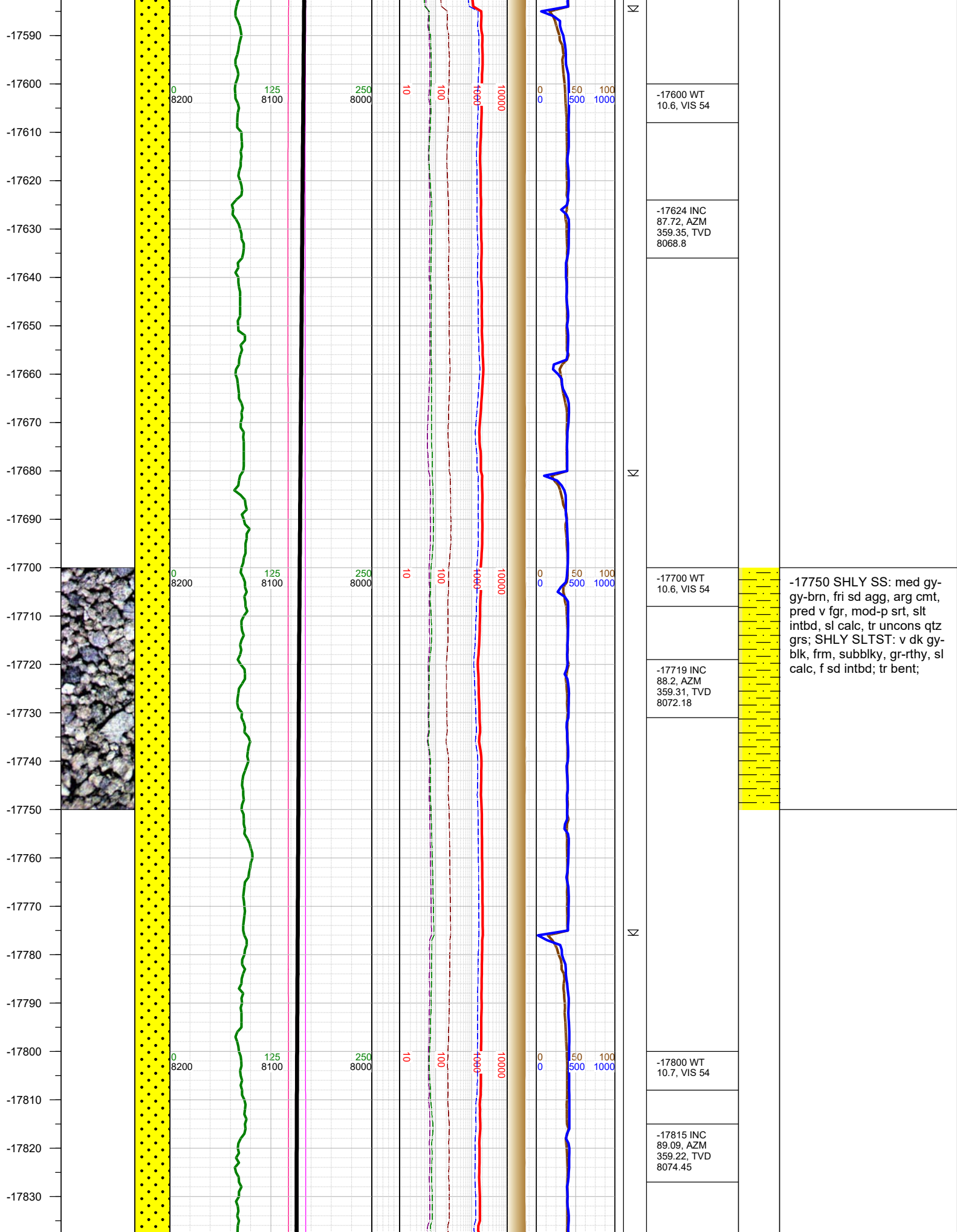
-16750 SHLY SS: med gy-gy-brn, fri sd agg, arg cmt, pred v fgr, mod-p srt, slt intbd, sl calc, tr uncons qtz grs; SHLY SLTST: v dk gy-blk, frm, subblky, gr-rthy, sl calc; tr bent;



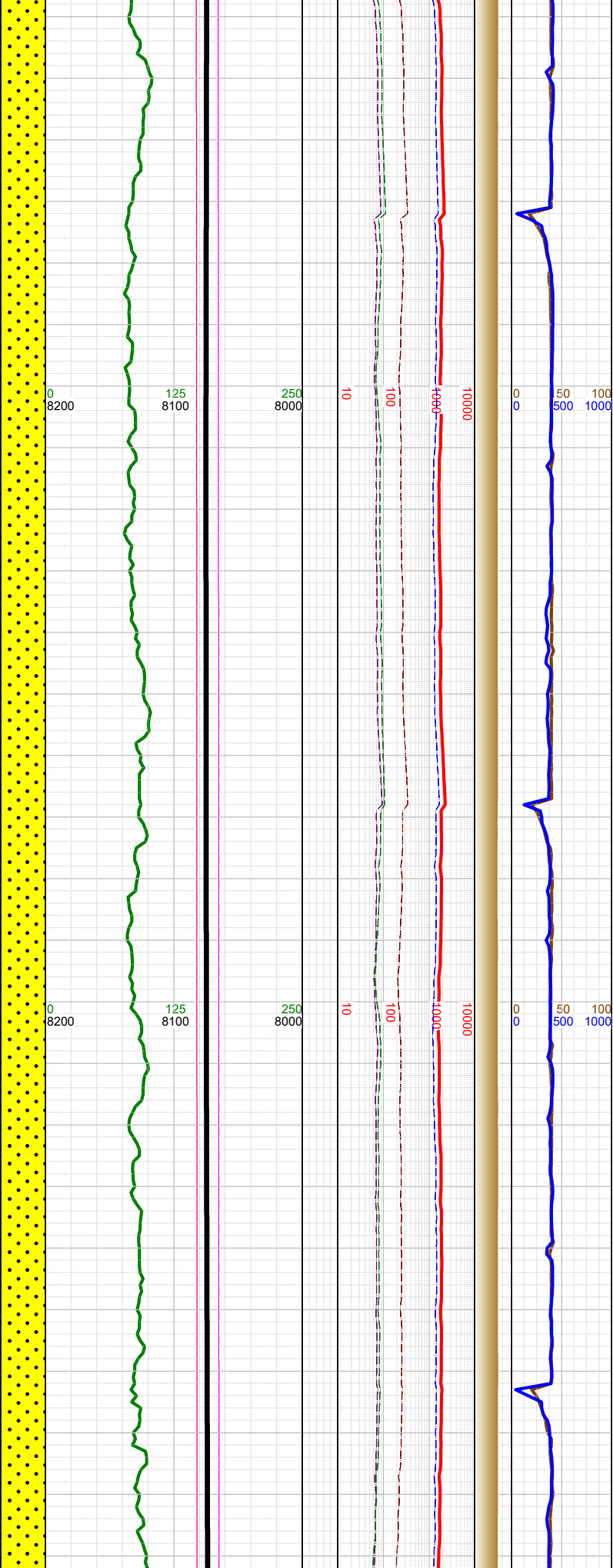
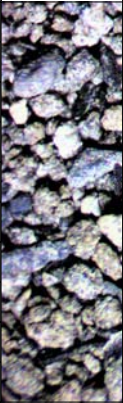




-17500 SHLY SS: med gy-gy-brn, fri sd agg, arg cmt, pred v fgr, mod-p srt, slt intbd, sl calc, tr uncons qtz grs, lmy intbd; SHLY SLTST: v dk gy-blk, frm, subblky, gr-rthy, sl calc, f sd intbd; tr bent;



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-18080
-18090



17

17

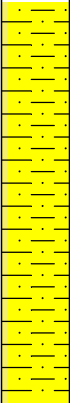
17

-17900 WT
10.7, VIS 54

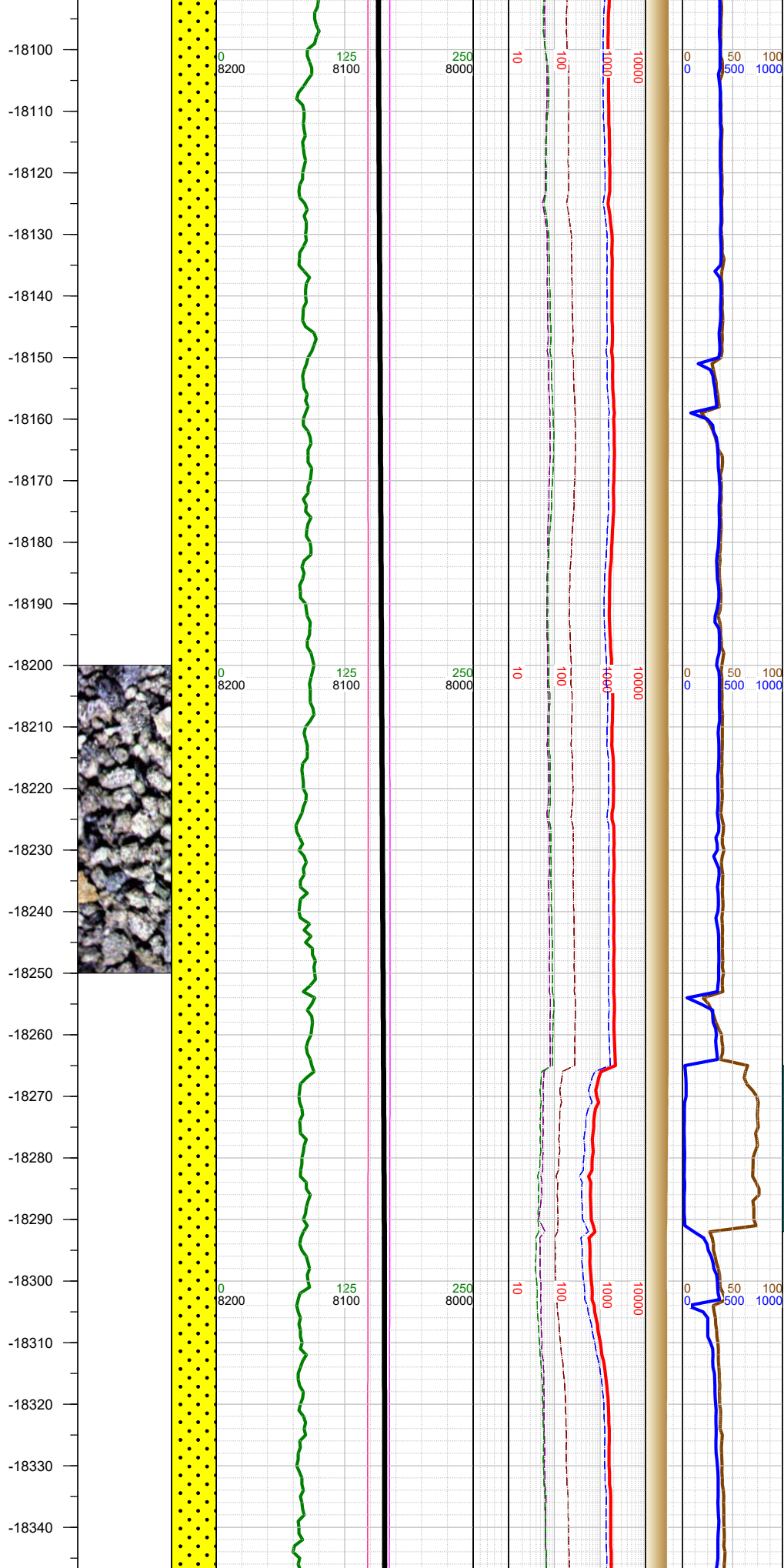
-17911 INC
90.1, AZM
359.17, TVD
8075.13

-18006 INC
90.28, AZM
358.25, TVD
8074.82

-18020 WT
10.7, VIS 54

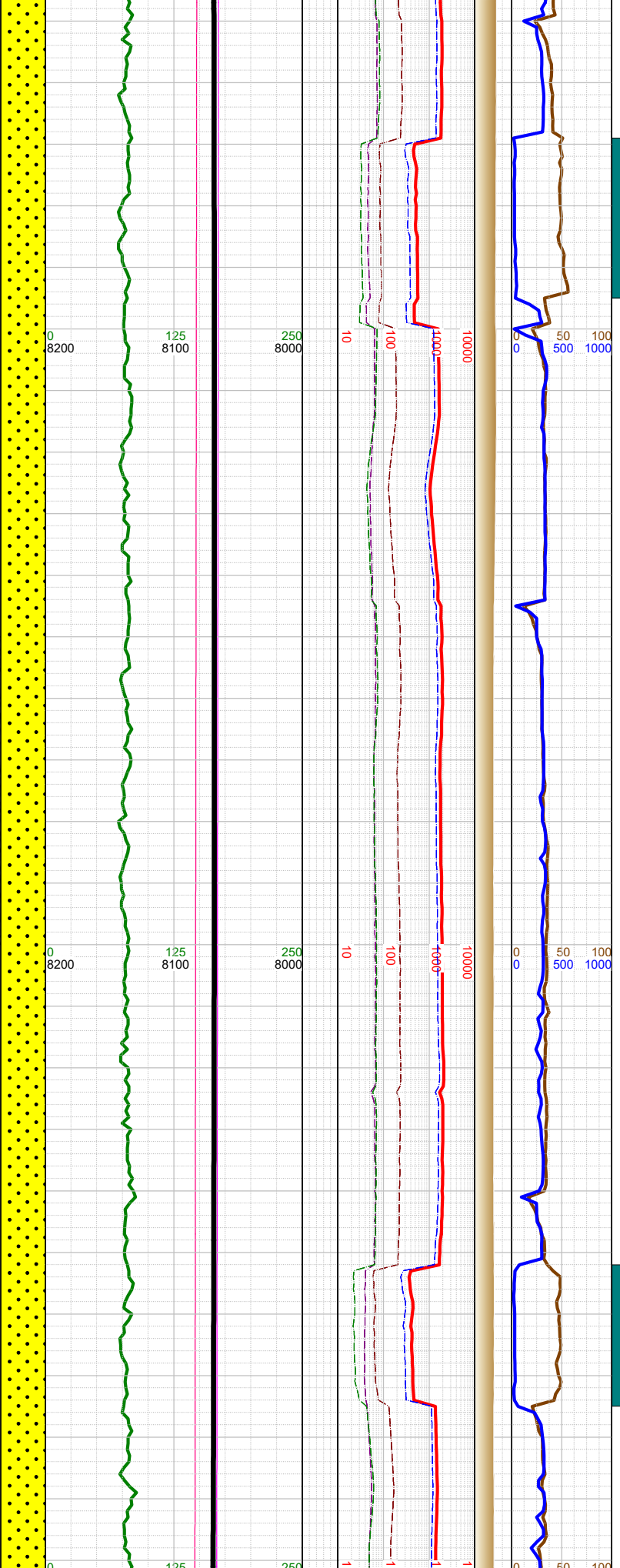


-18000 SHLY SS: med gy-gy-brn, fri sd agg, arg cmt, pred v fgr, mod-p srt, slt intbd, sl calc, tr uncons qtz grs; SHLY SLTST: v dk gy-blk, frm, subblky, gr-rthy, sl calc, f sd intbd; tr bent;



N	-18102 INC 91.03, AZM 358.12, TVD 8073.72	
	-18120 WT 10.7, VIS 54	
	-18197 INC 91.65, AZM 357.9, TVD 8071.5	
N	-18210 WT 10.7, VIS 54	-18250 SHLY SS: med gy- gy-brn, fri sd agg, arg cmt, pred v fgr, mod-p srt, slt intbd, sl calc, tr unconsl qtz grs, lmy intbd; SHLY SLTST: v dk gy-blk, frm, subblky, gr-rthy, sl calc, f sd intbd;
	-18285 0000 hrs on 5/31/2019	
	-18292 INC 91.03, AZM 359.48, TVD 8069.28	
A	-18310 WT 10.6, VIS 54	

-18350
-18360
-18370
-18380
-18390
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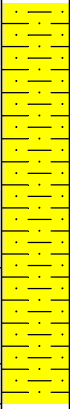
-18388 INC
89.66, AZM
0.58, TVD
8068.7

-18400 WT
10.6, VIS 53

-18483 INC
90.5, AZM 0.58,
TVD 8068.57

-18500 WT
10.6, VIS 53

-18579 INC
88.69, AZM
2.35, TVD
8069.25



-18500 SHLY SS: med gy-gy-brn, fri sd agg, arg cmt, pred v fgr, mod-p srt, slt intbd, sl calc, tr unconsl qtz grs, lmy intbd; SHLY SLTST: v dk gy-blk, frm, subblky, gr-rthy, sl calc, f sd intbd; tr bent;

