

OPERATOR: **Extraction Oil & Gas**
WELL NAME: **Coyote Trails 33S-20-5C**
FIELD NAME: DJ Basin - Wattenberg
DRILLING RIG: Ensign 147
API #: 05-123-45995

LAT/LONG: 40.017976, -105.007024
SURFACE HOLE: SWSE S28-T1N-R68W, 1148' FSL, 2229' FEL
BOTTOM HOLE: S4-T1S-R68W, 150' FSL, 1923' FEL

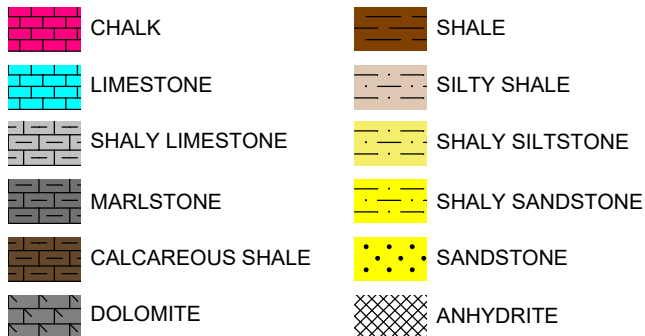


Earth Science Agency, LLC

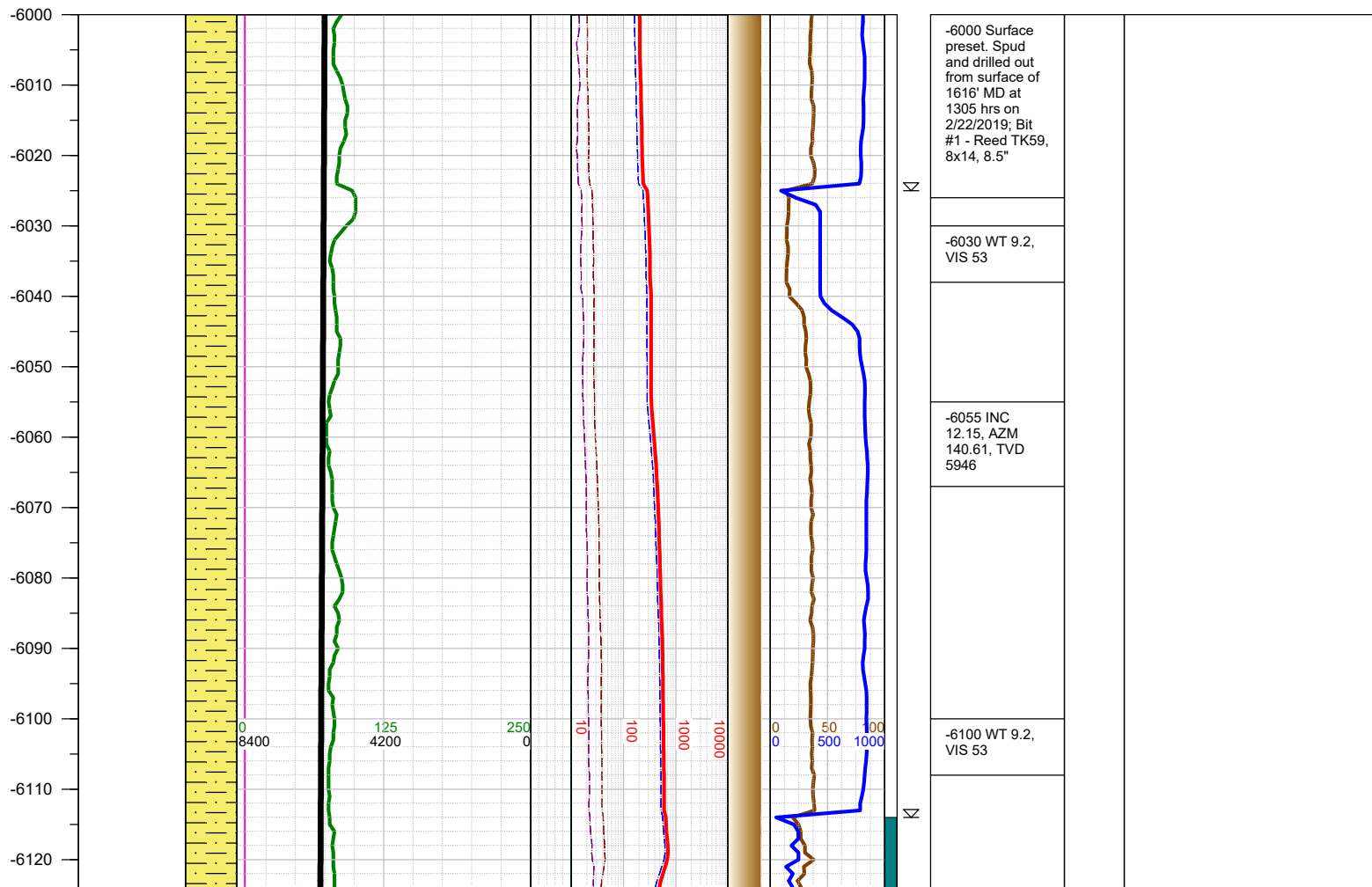
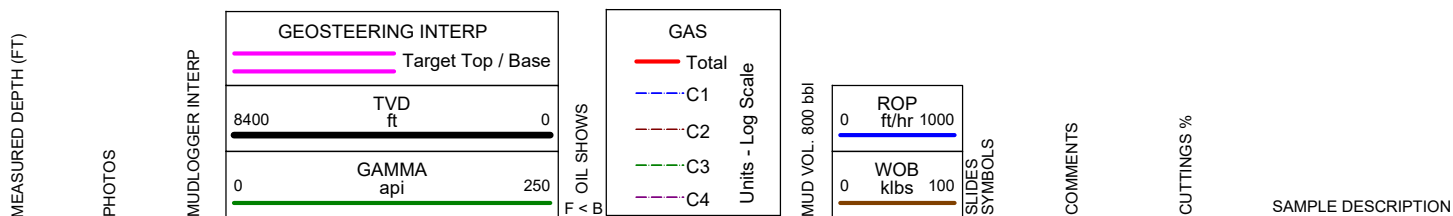
COUNTY: Weld
STATE: Colorado
GROUND ELEVATION: 5270'
KELLY BUSHING: 5299'
DRILLING FLUID: OBM
TVD VS. MD: 8181' / 18206'
SPUD DATE: February 22, 2019
TD DATE: February 27, 2019

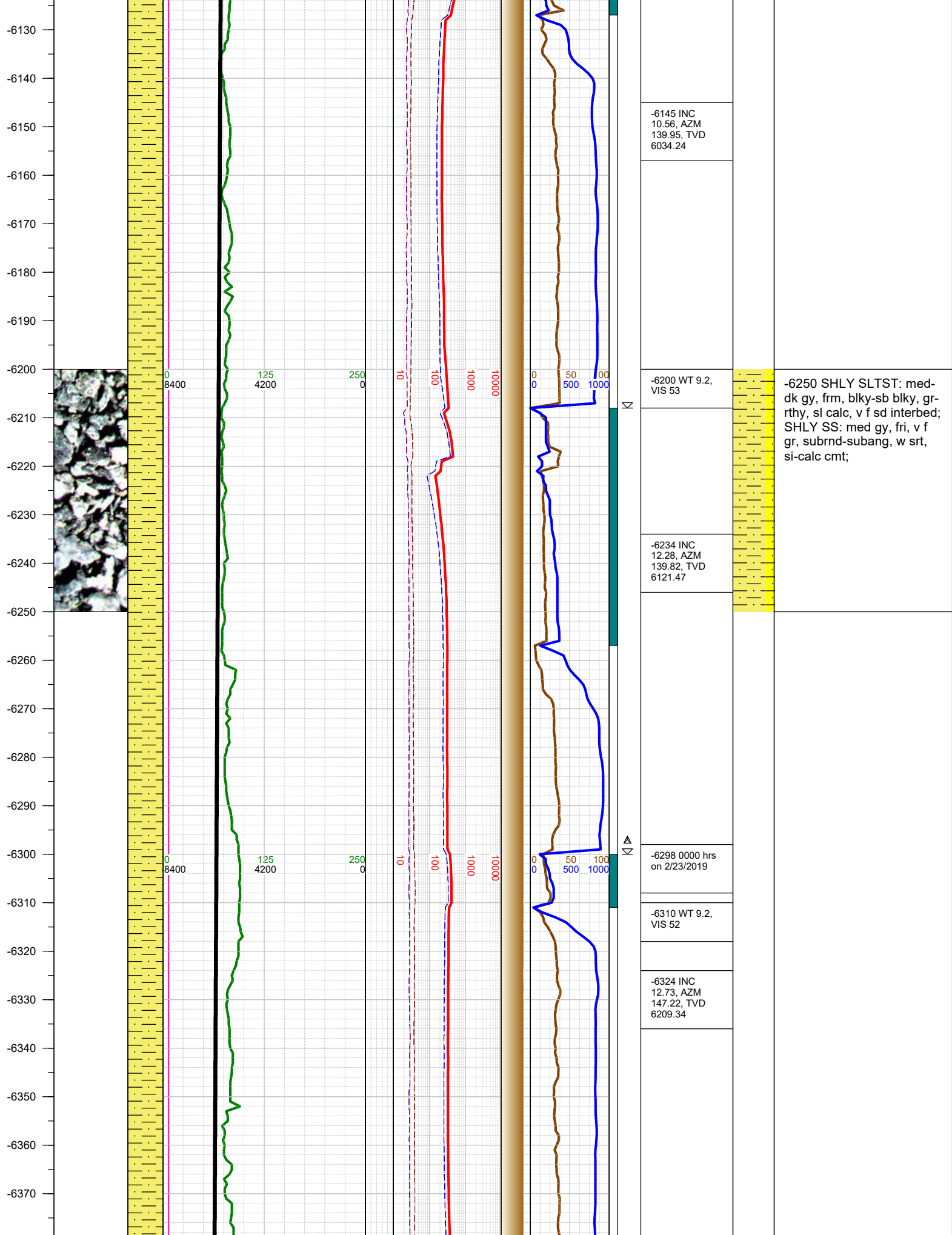
DEPTHS LOGGED: 6000' - 18206'
DATES LOGGED: February 22, 2019 - February 27, 2019
GEOLOGISTS: Curtis Magnino, Kyle Newman
SCALE: 5" = 100'

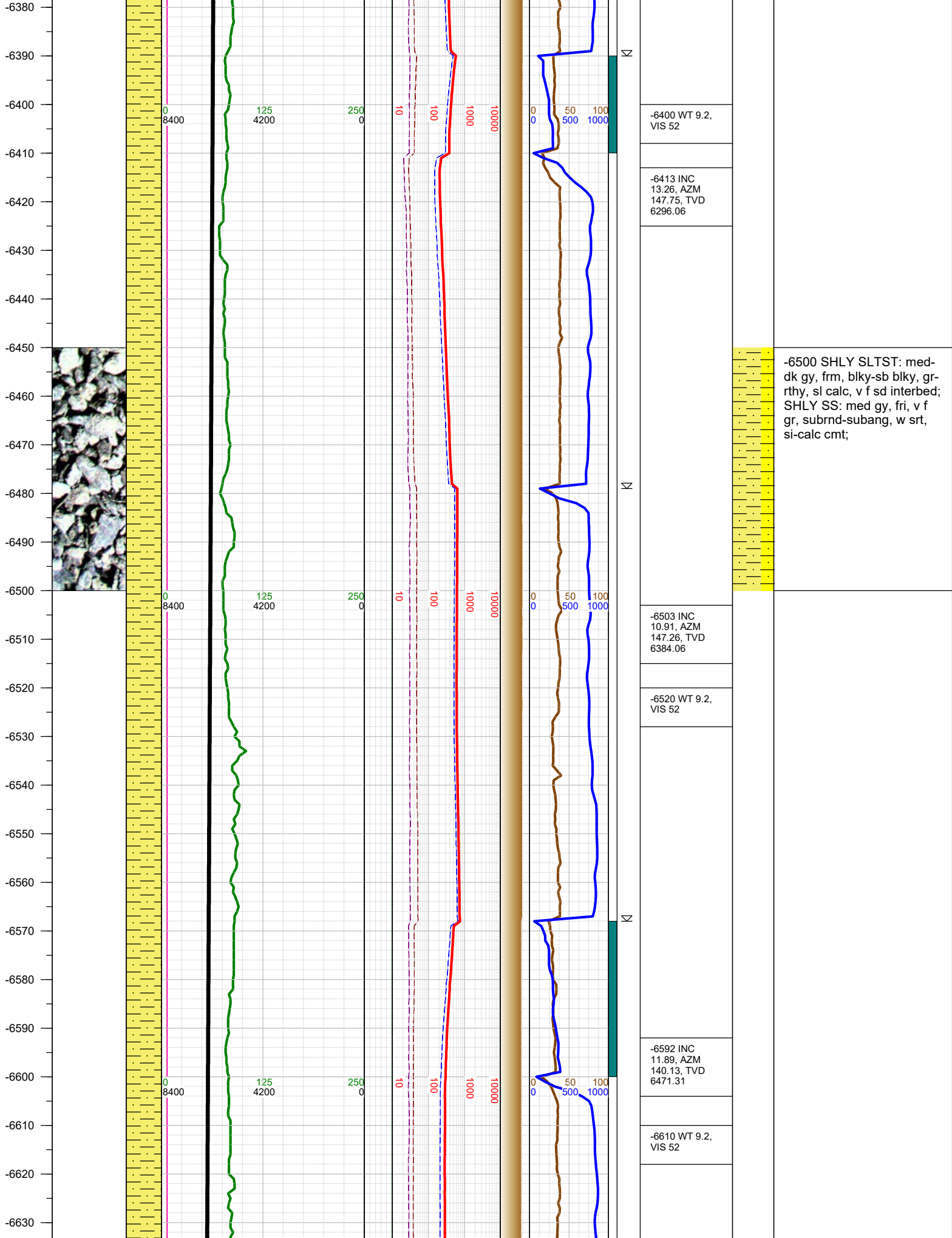
LEGEND

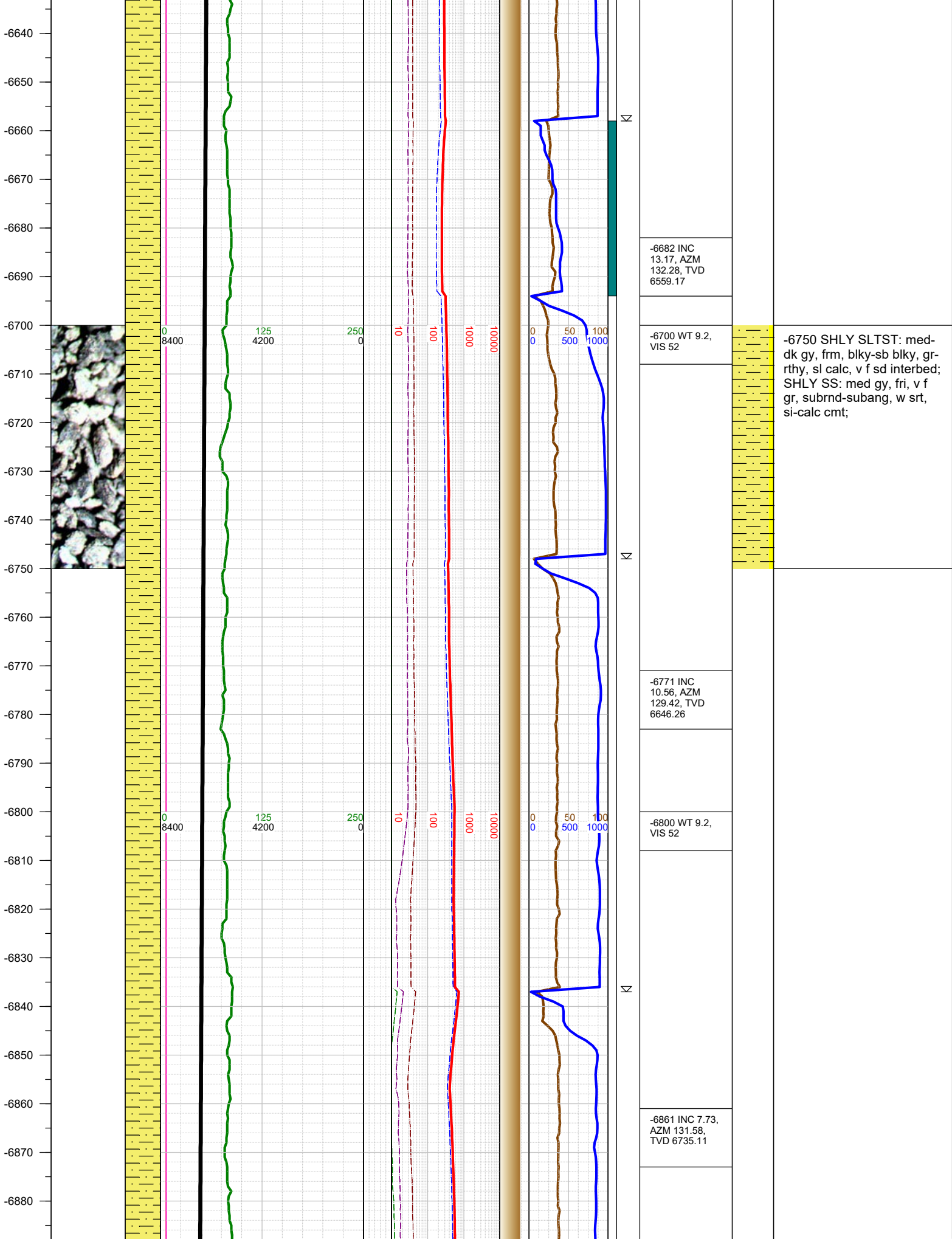


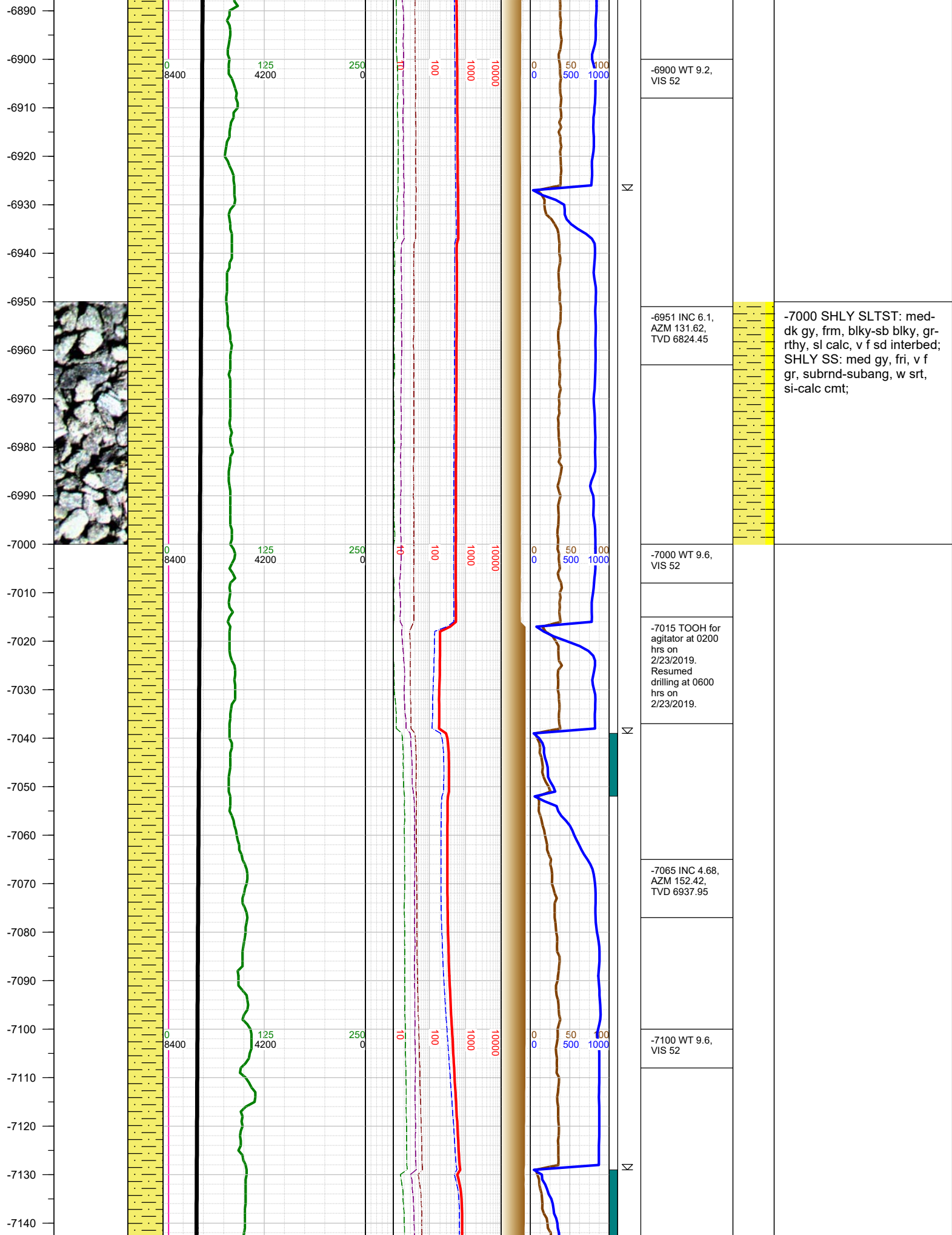
FORMATION CONNECTION MIDNIGHT NEW BIT GAS SHOW FAULT

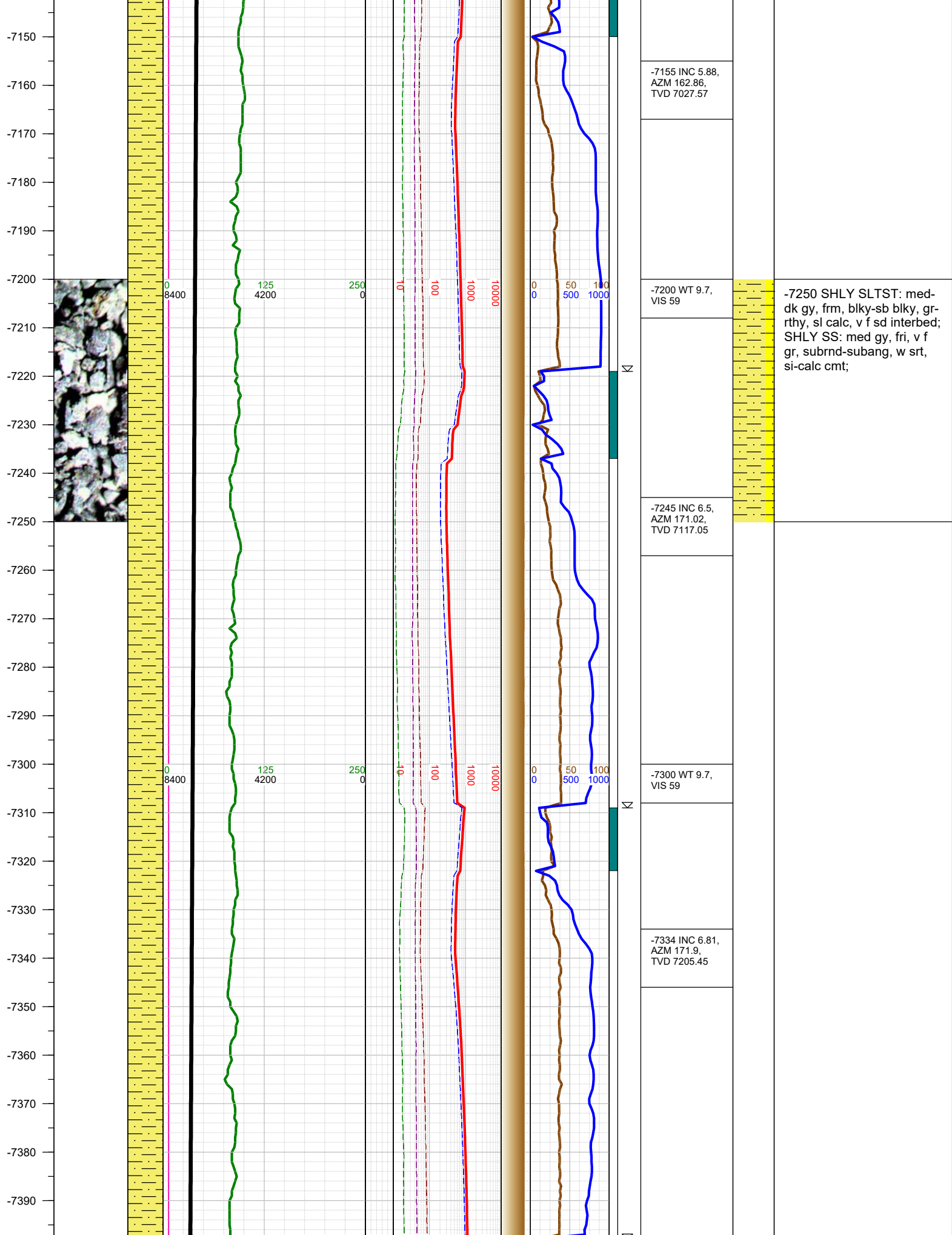


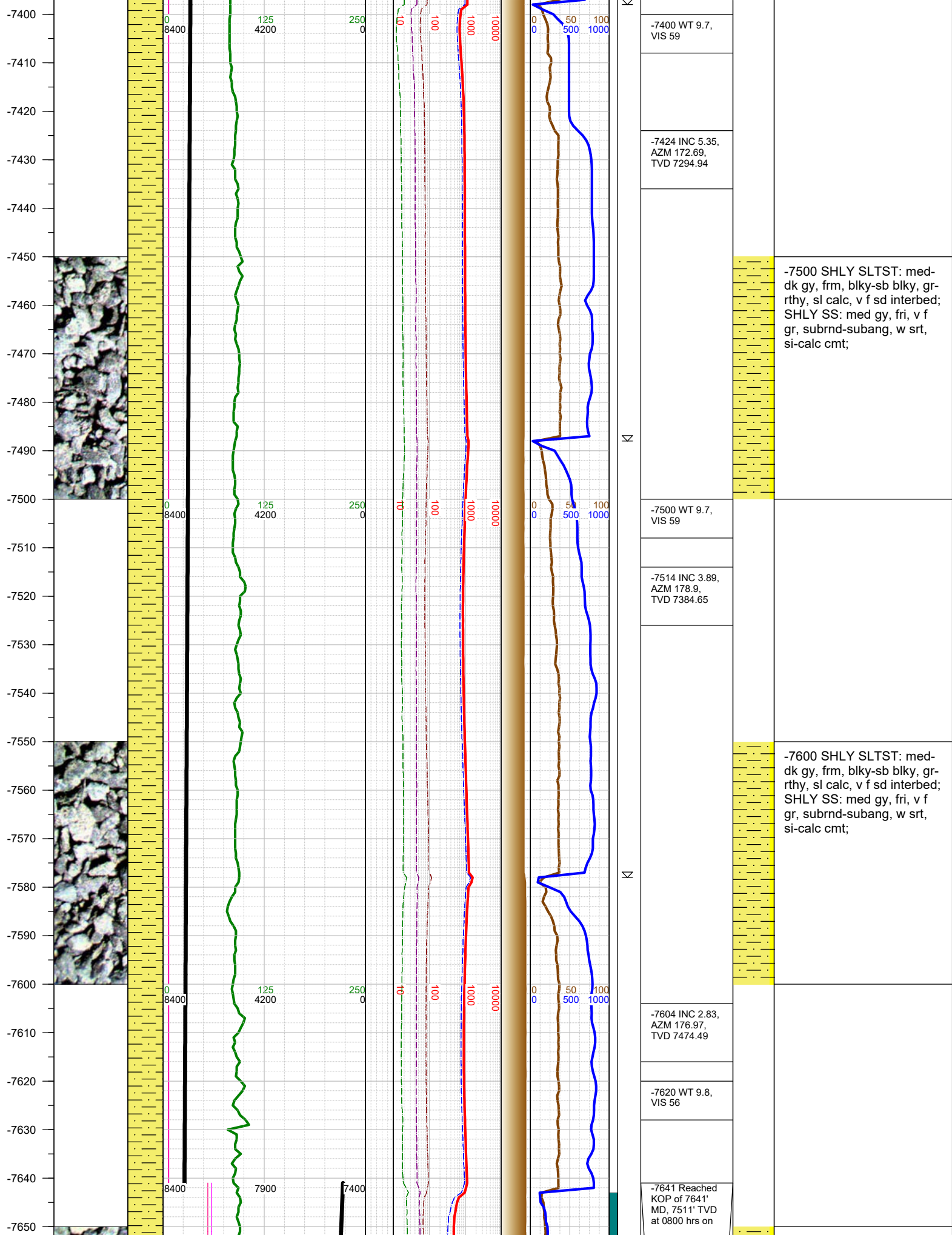


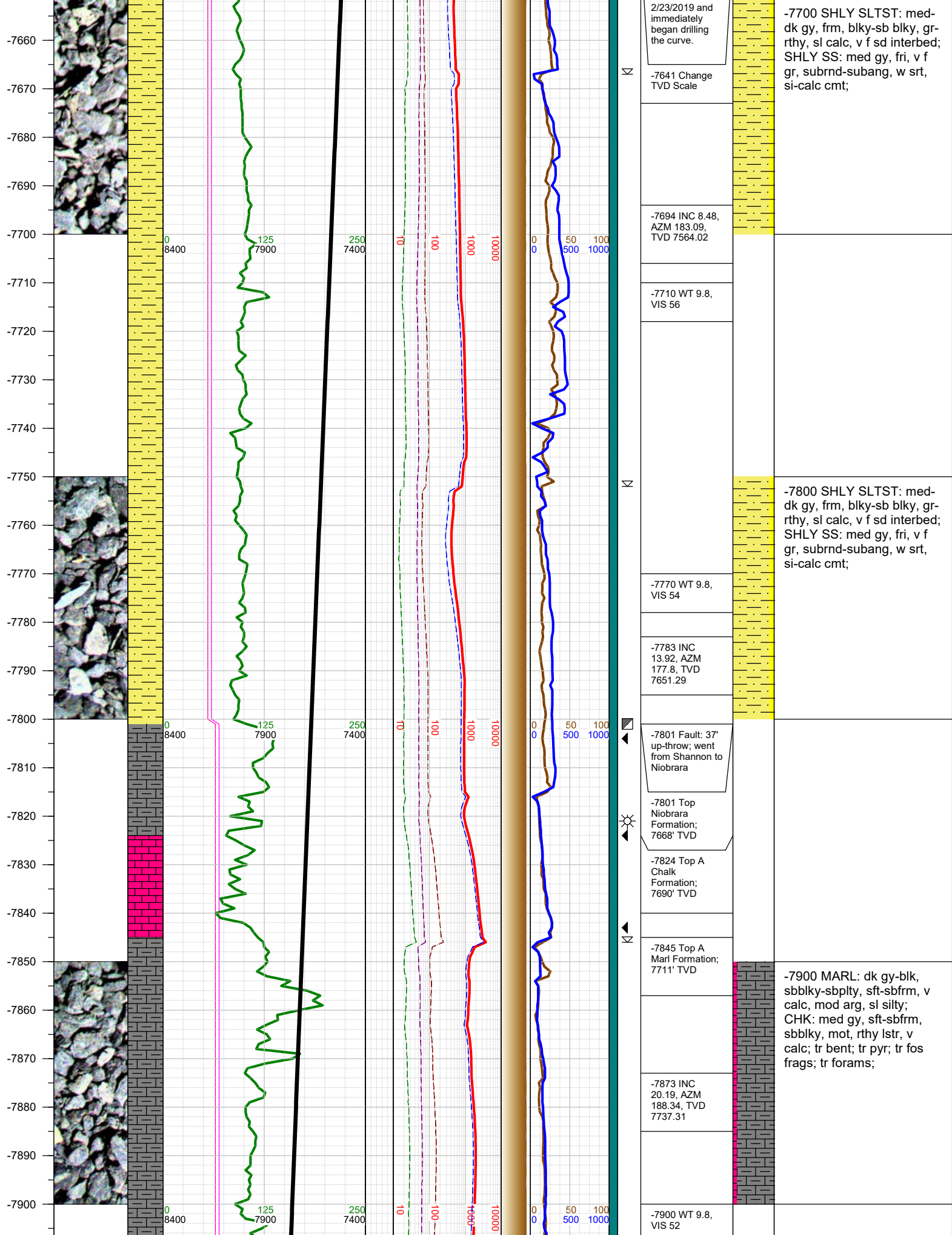


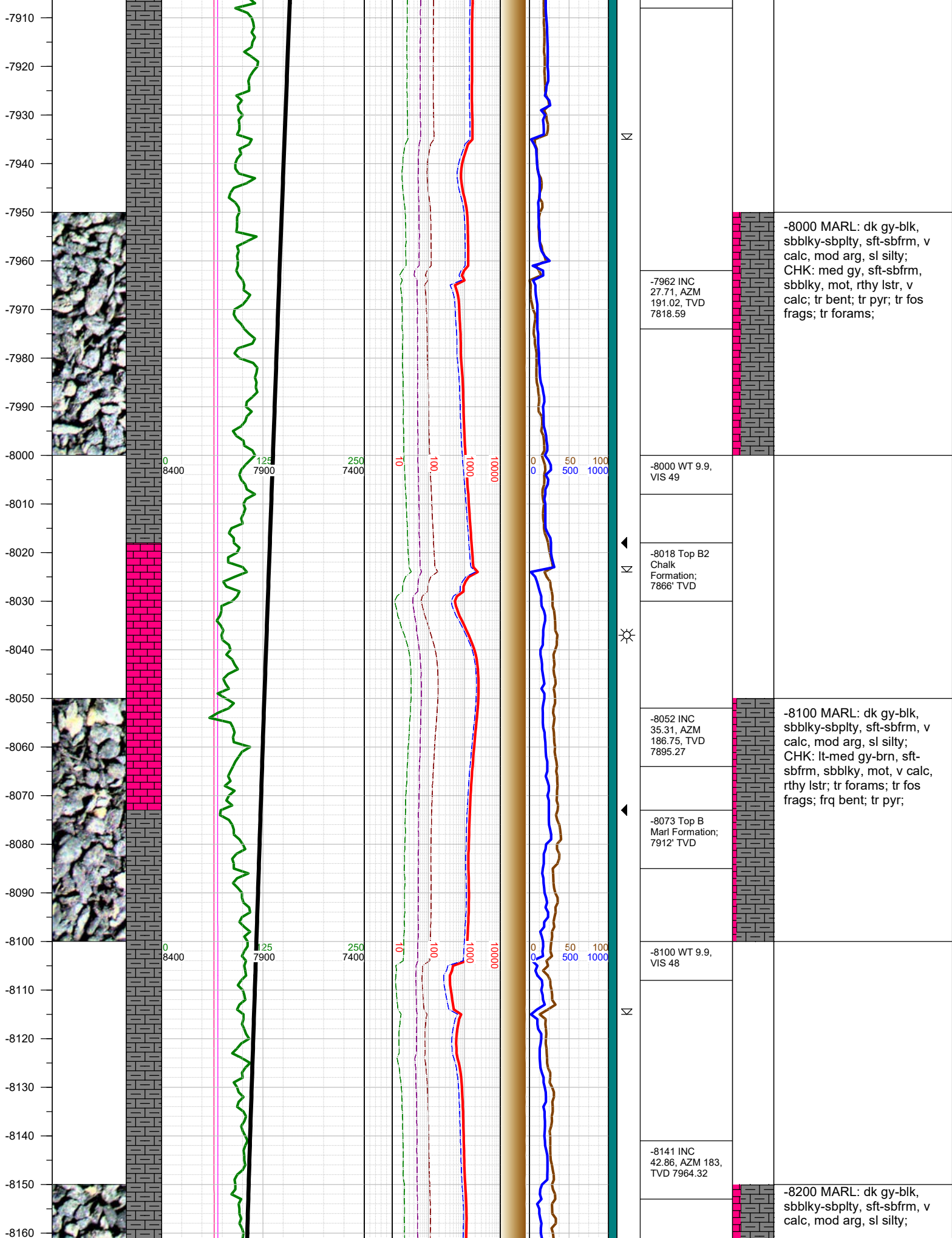


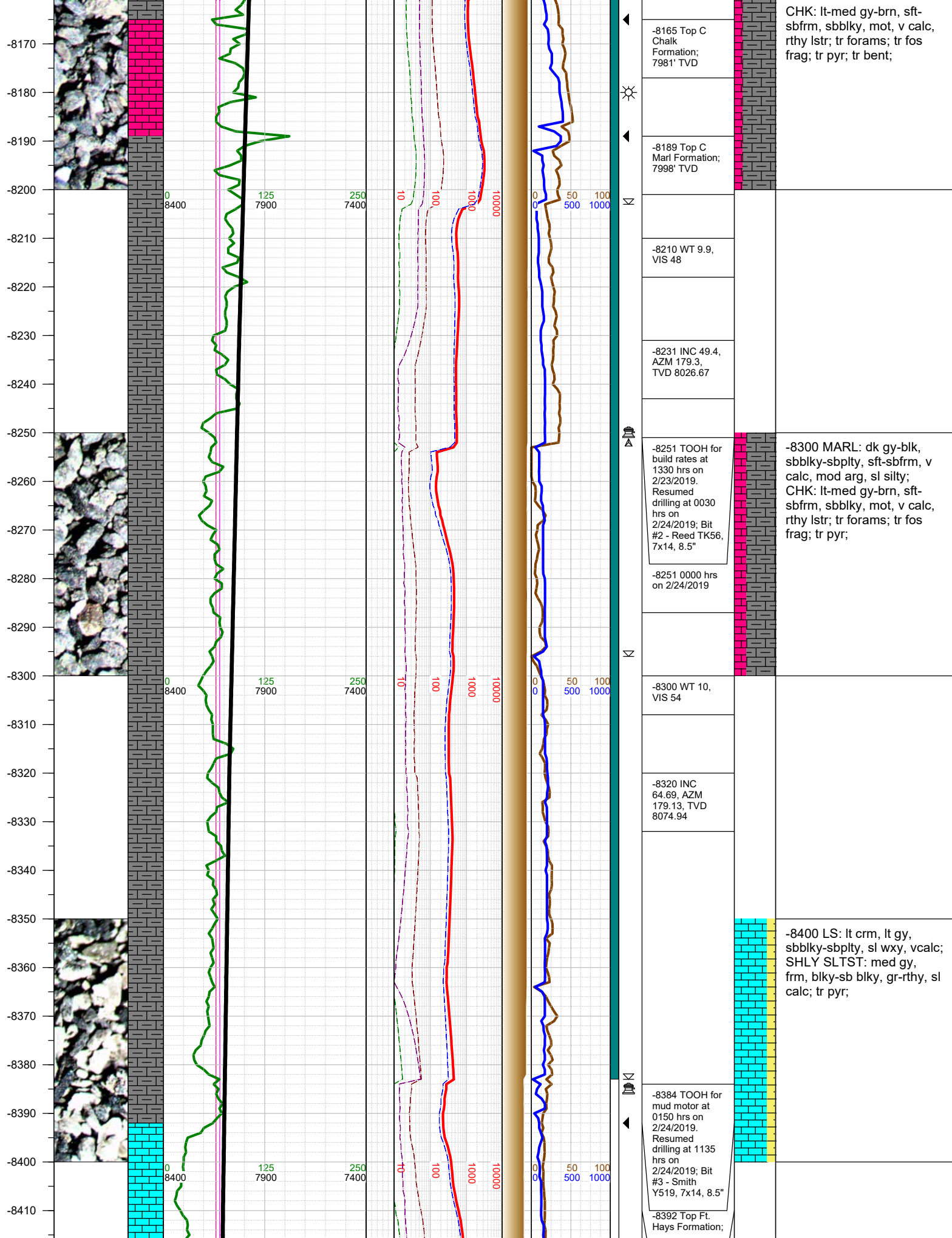


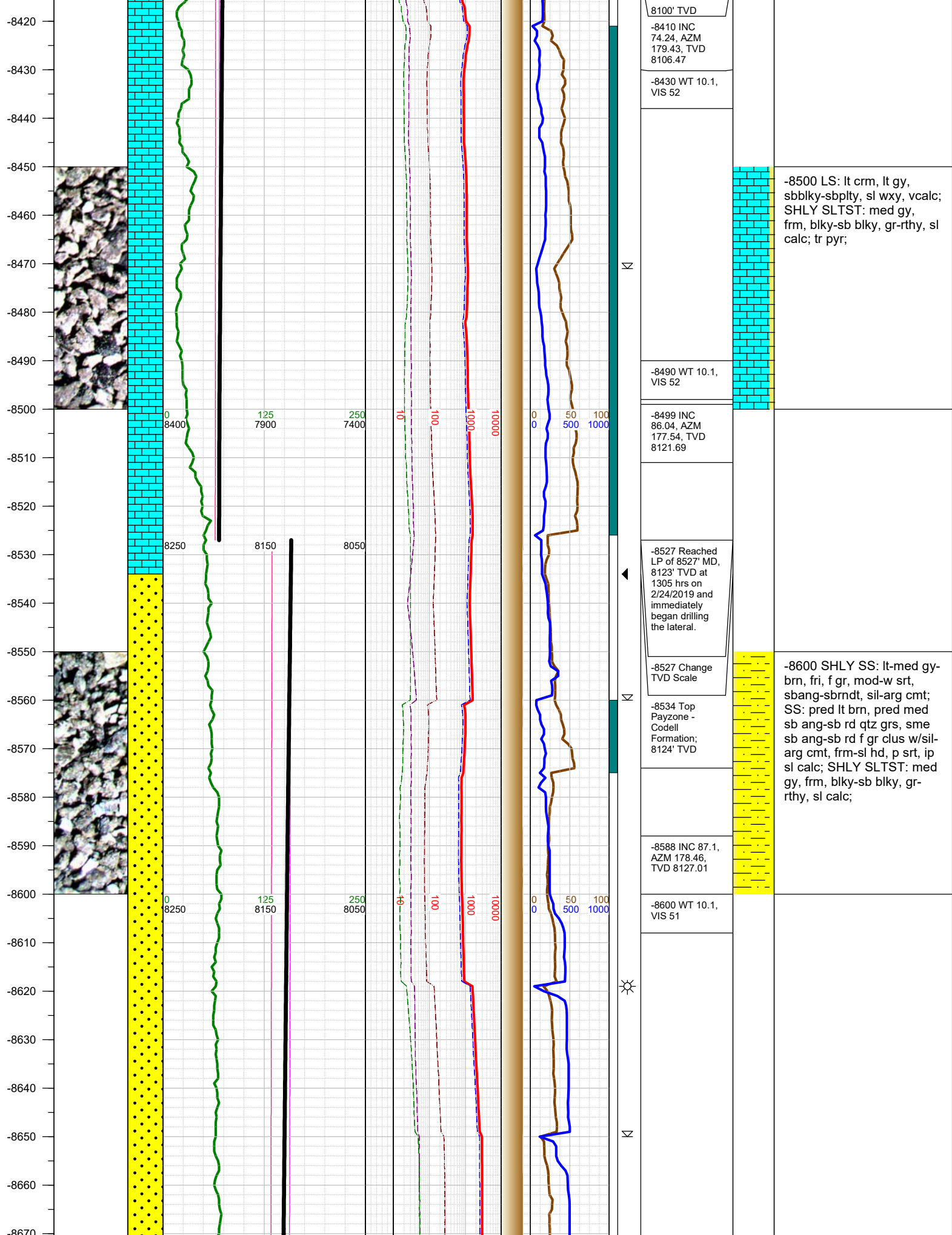


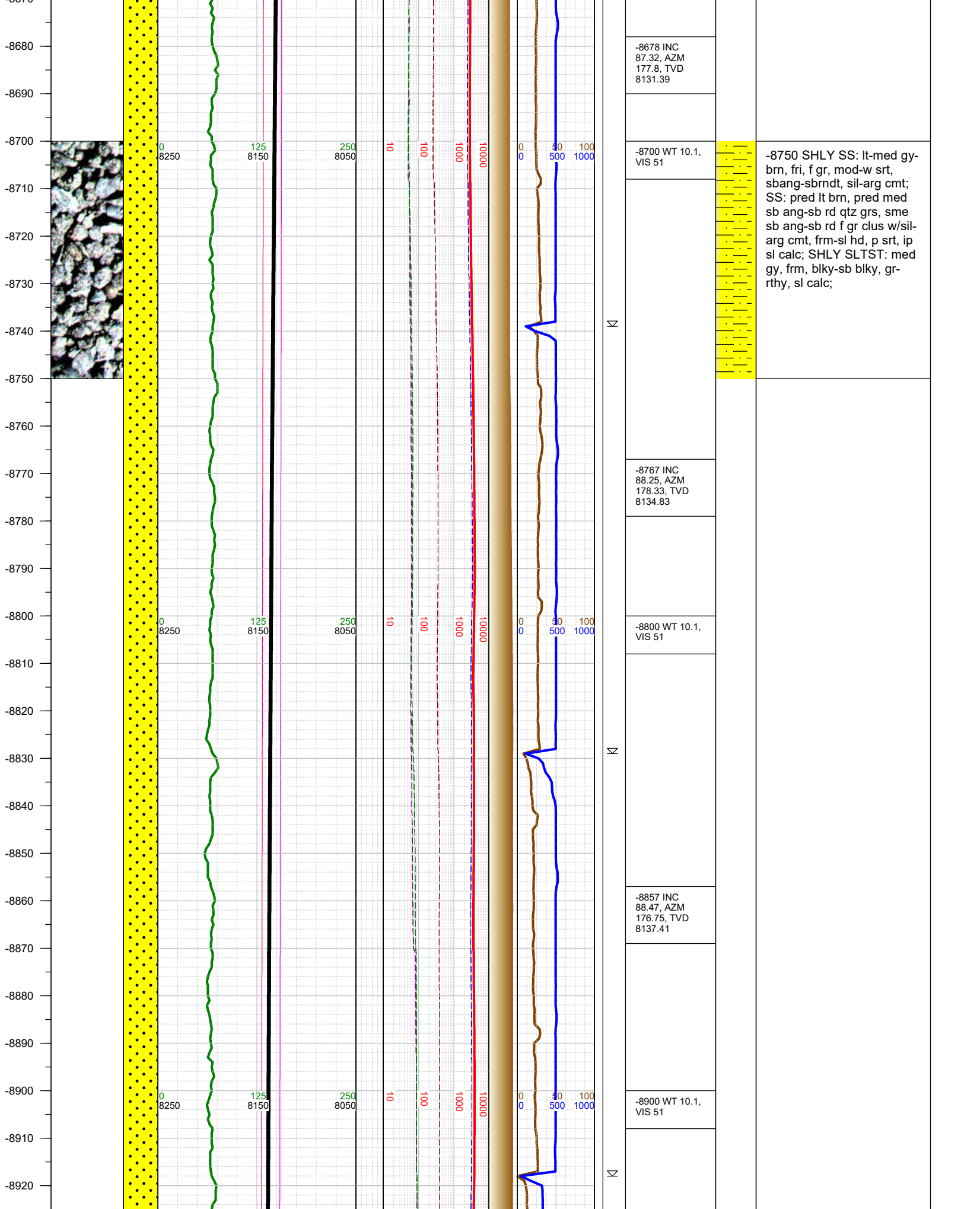


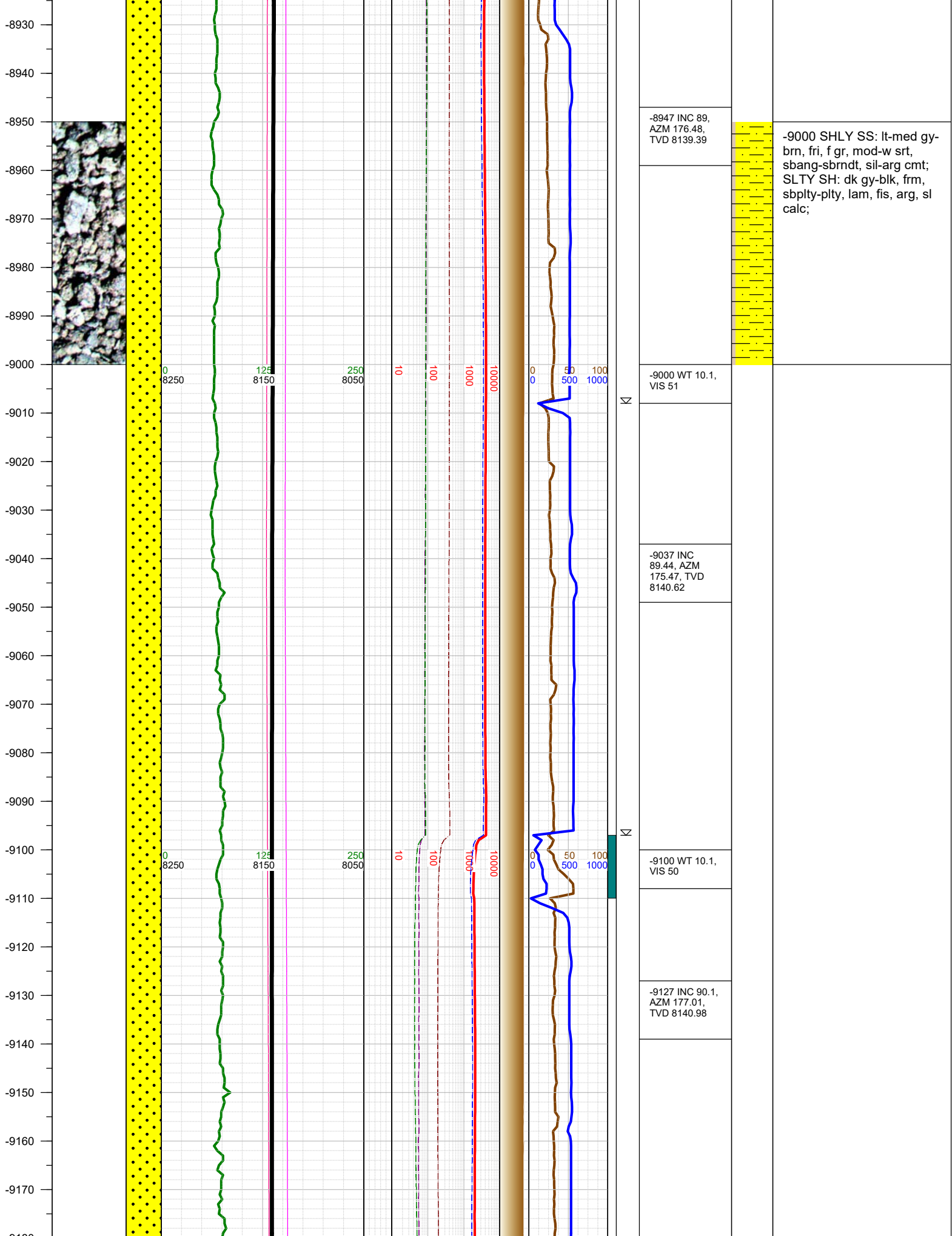


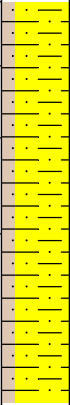
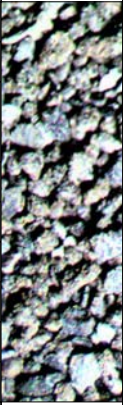
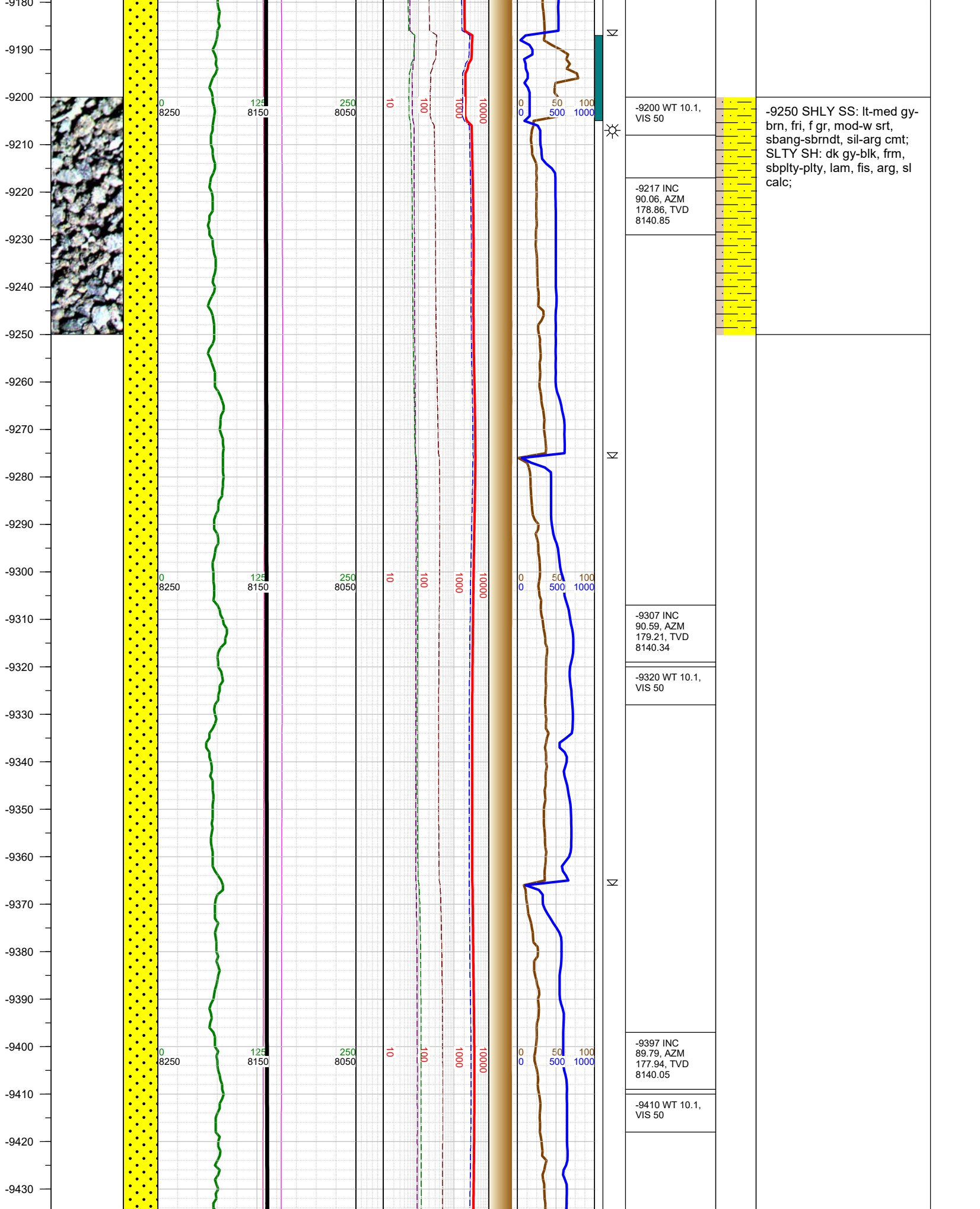




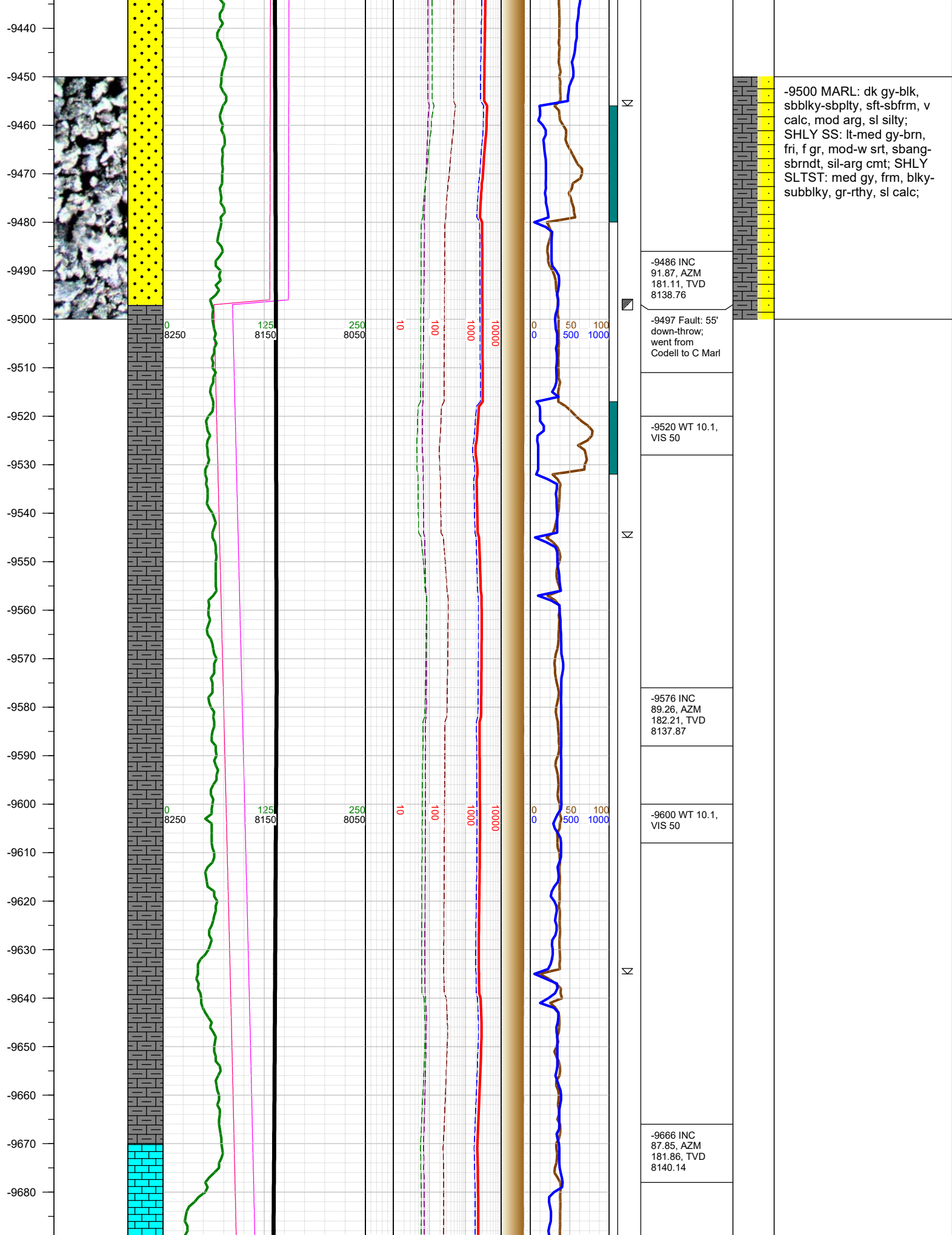


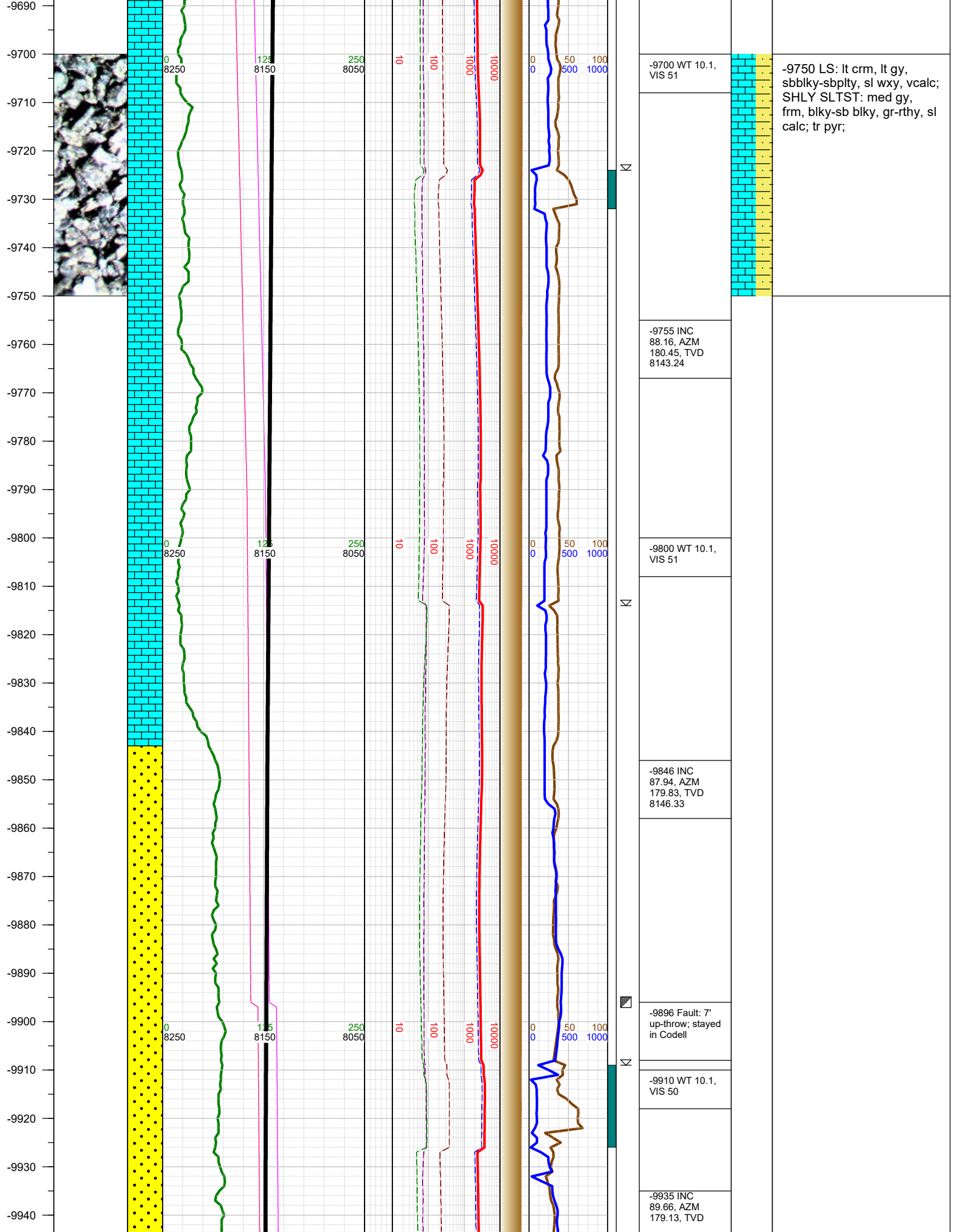


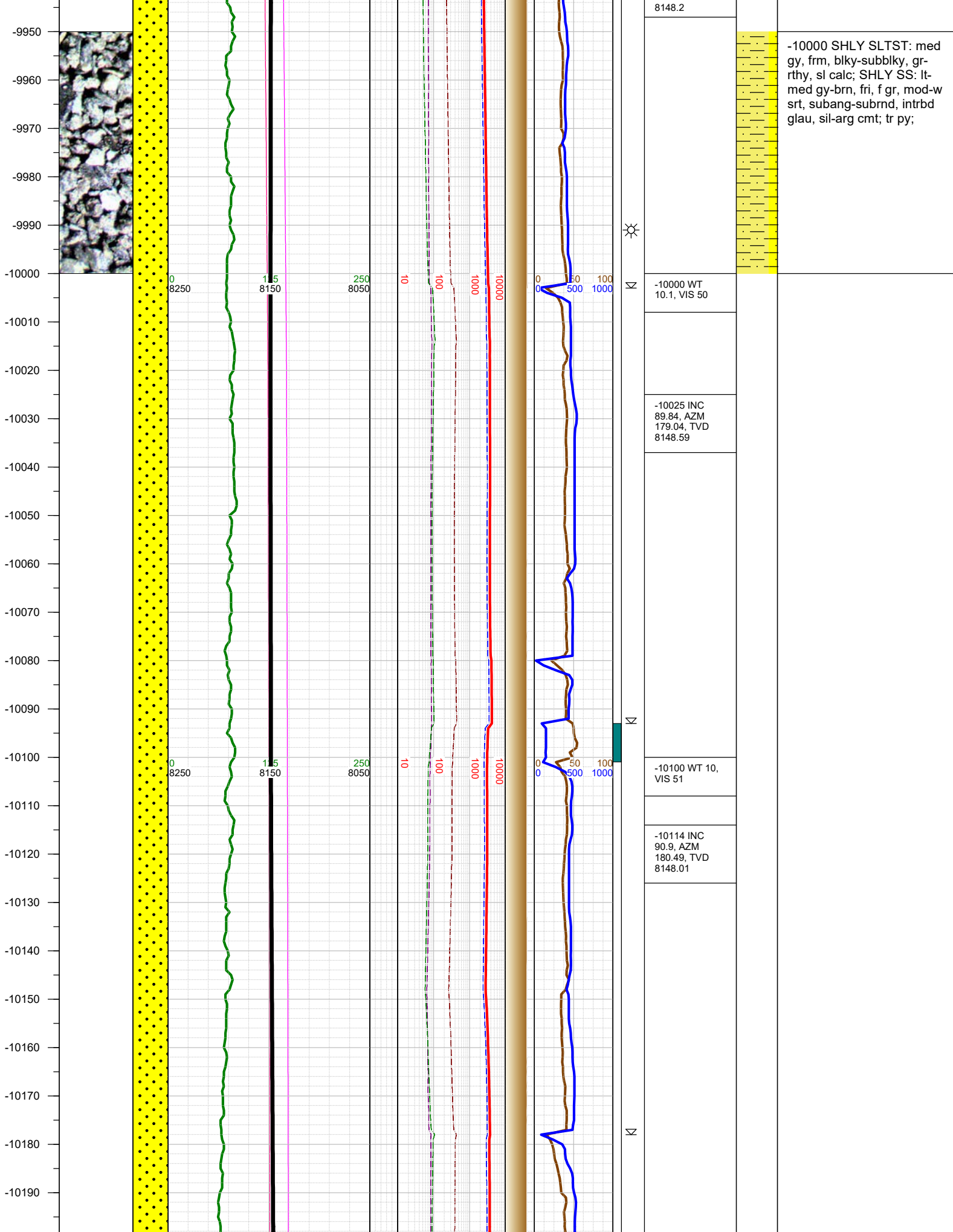


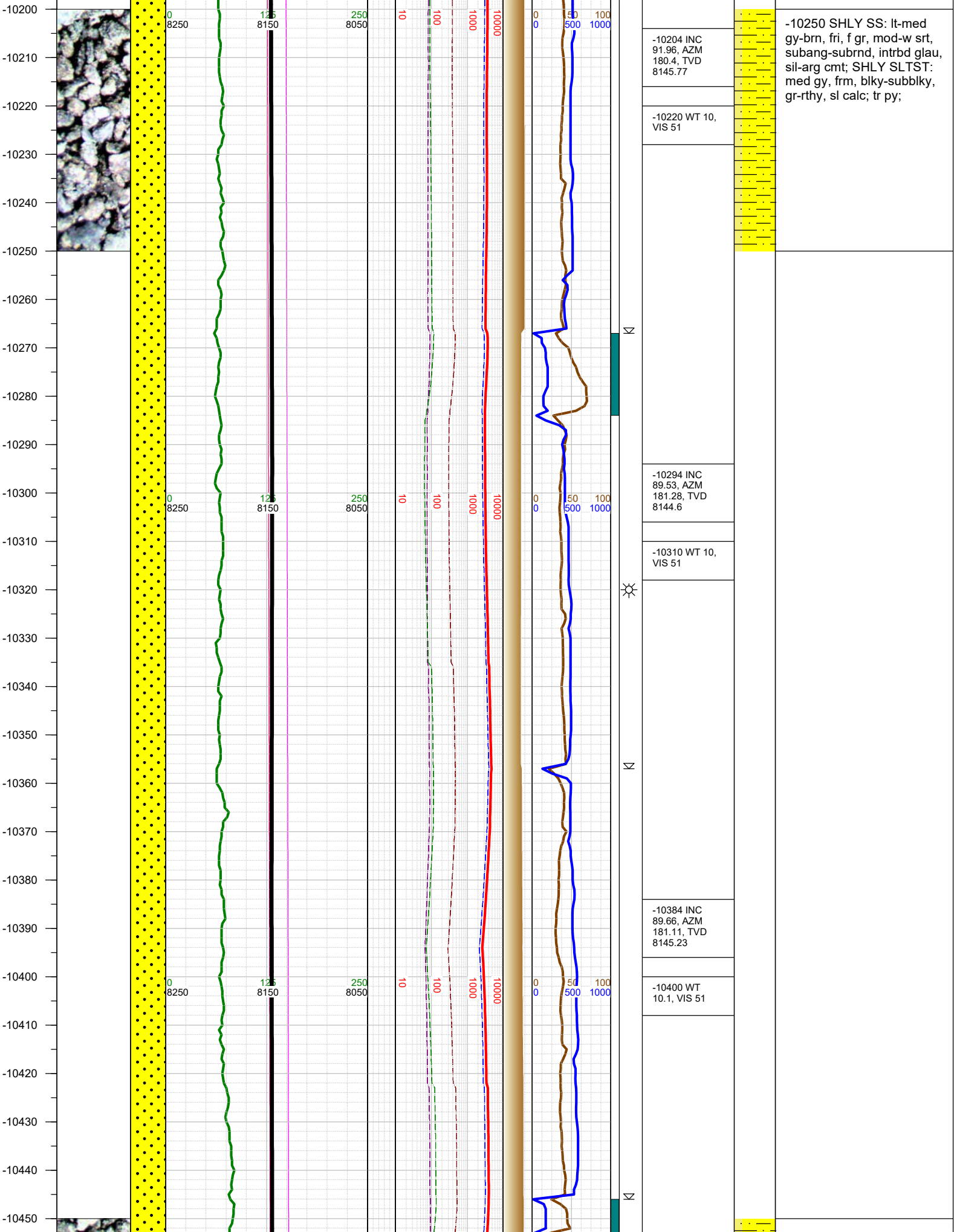


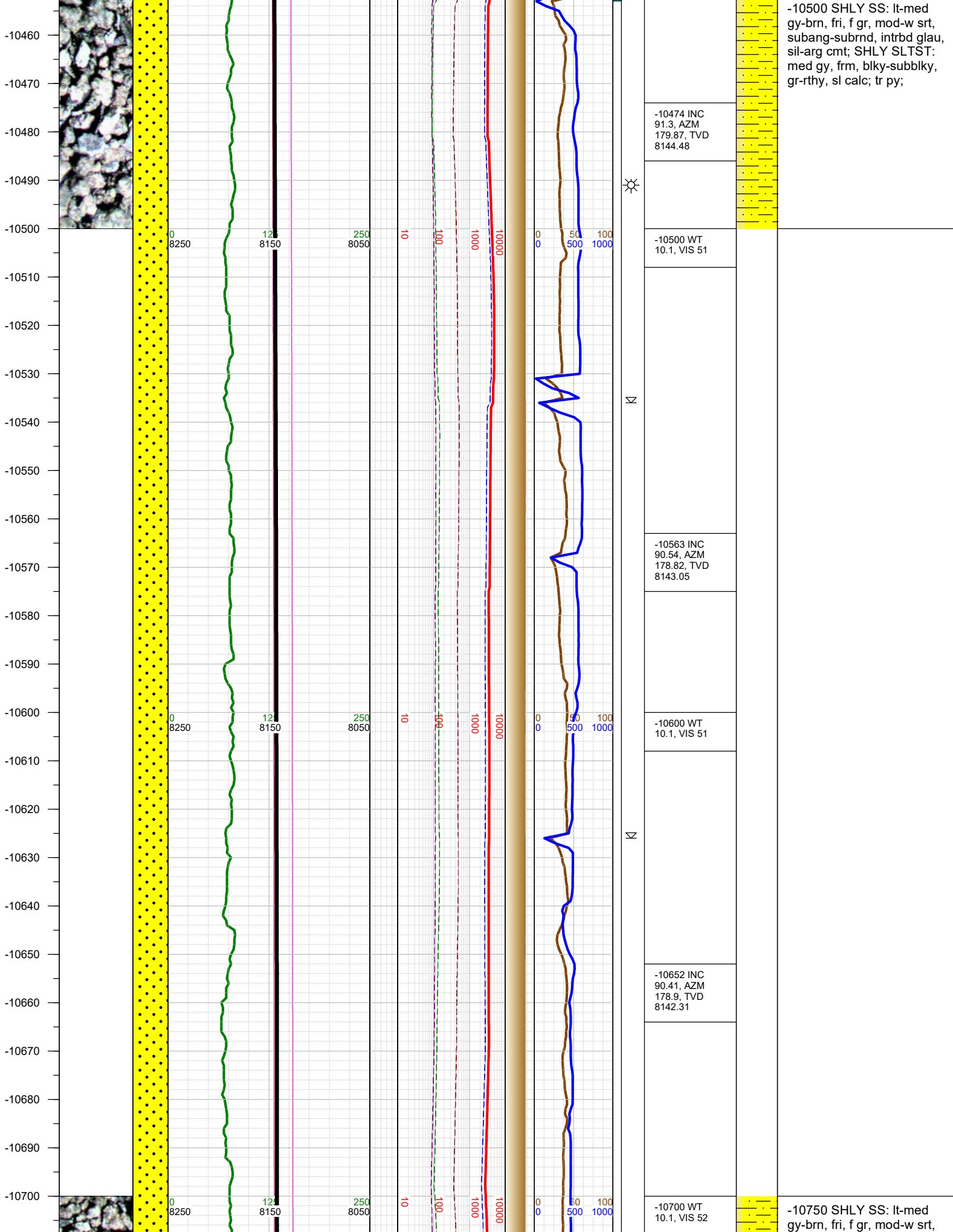
-9250 SHLY SS: lt-med gy-brn, fri, f gr, mod-w srt, sbang-sbrndt, sil-arg cmt; SLTY SH: dk gy-blk, frm, sbppty-plty, lam, fis, arg, sl calc;

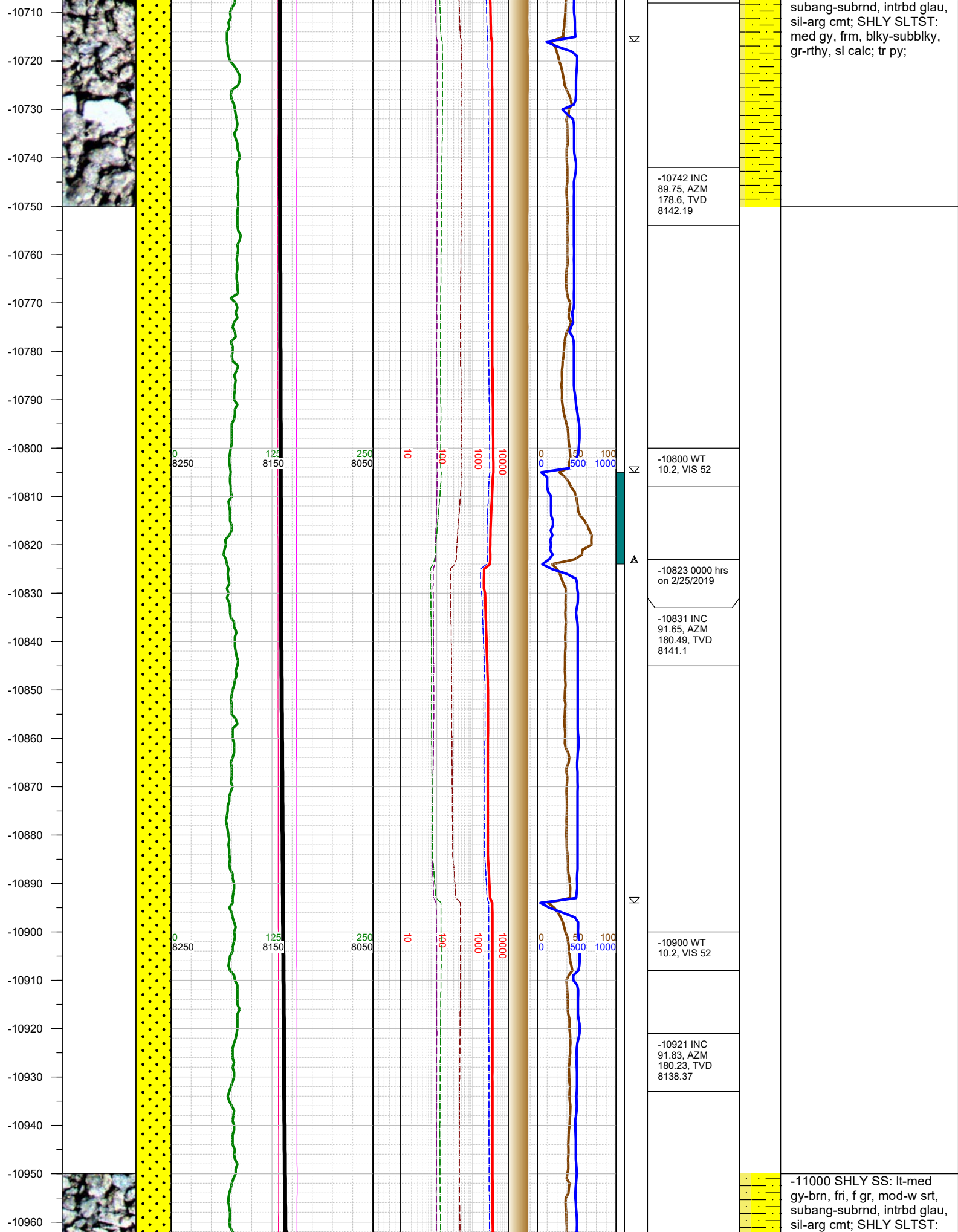


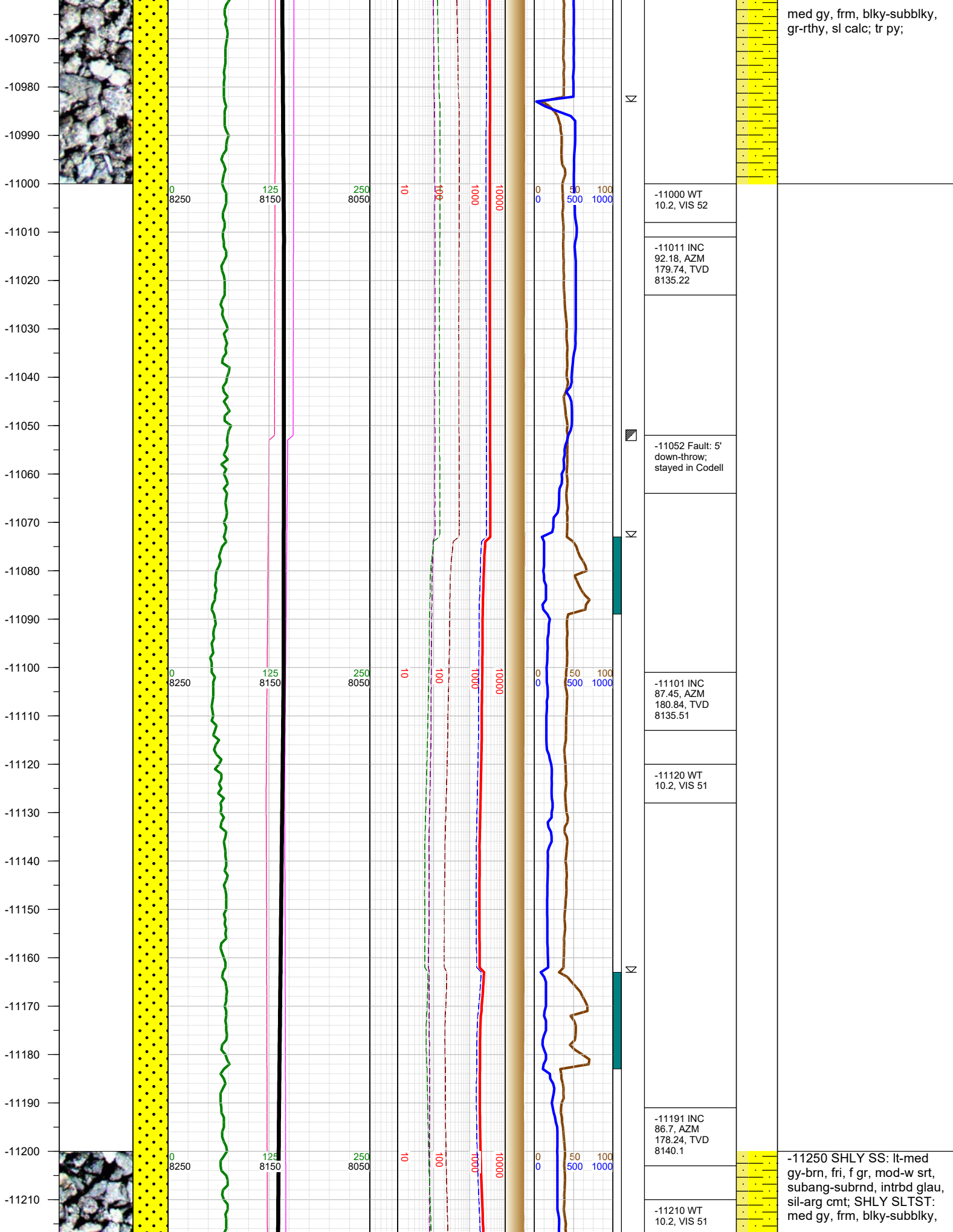


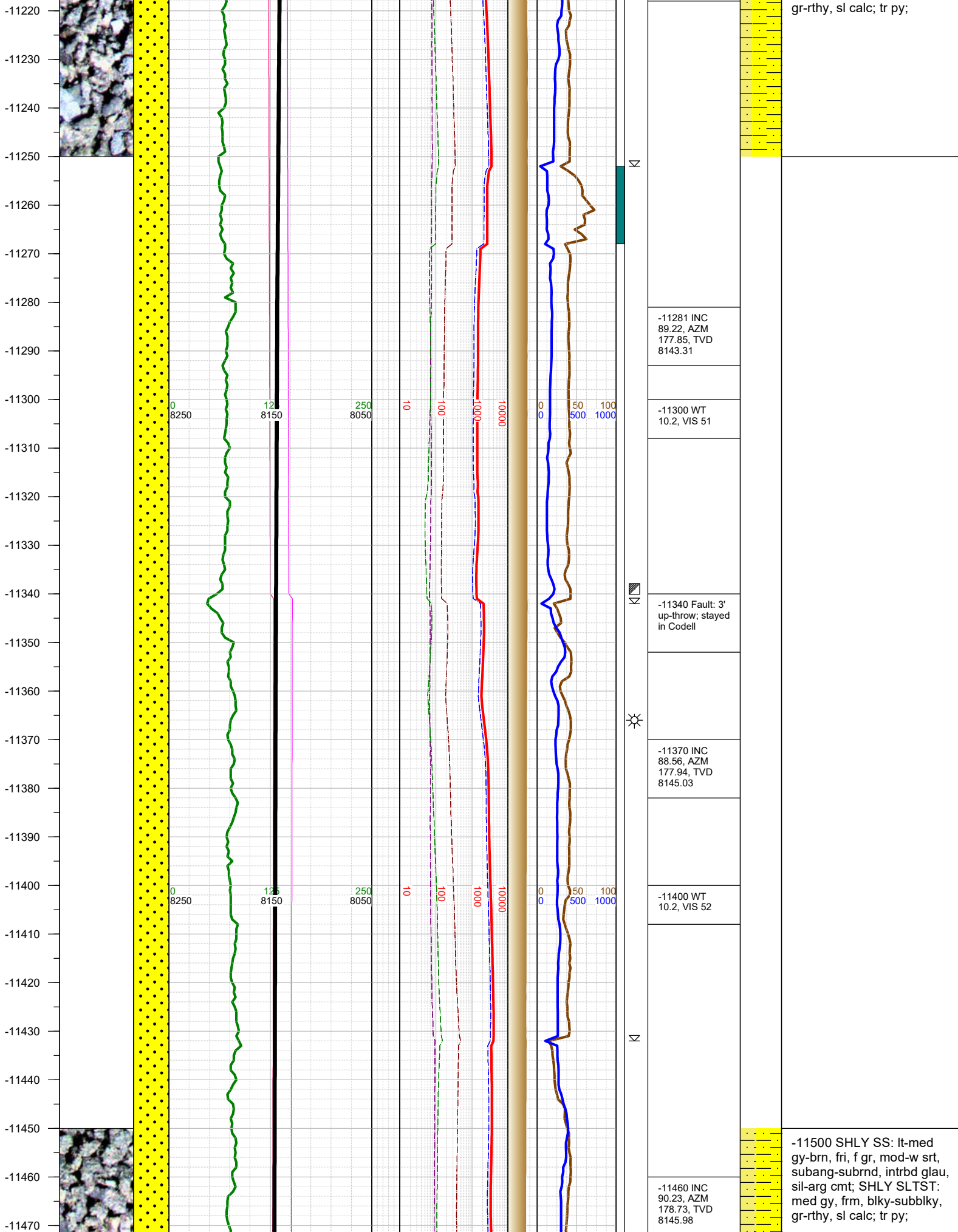




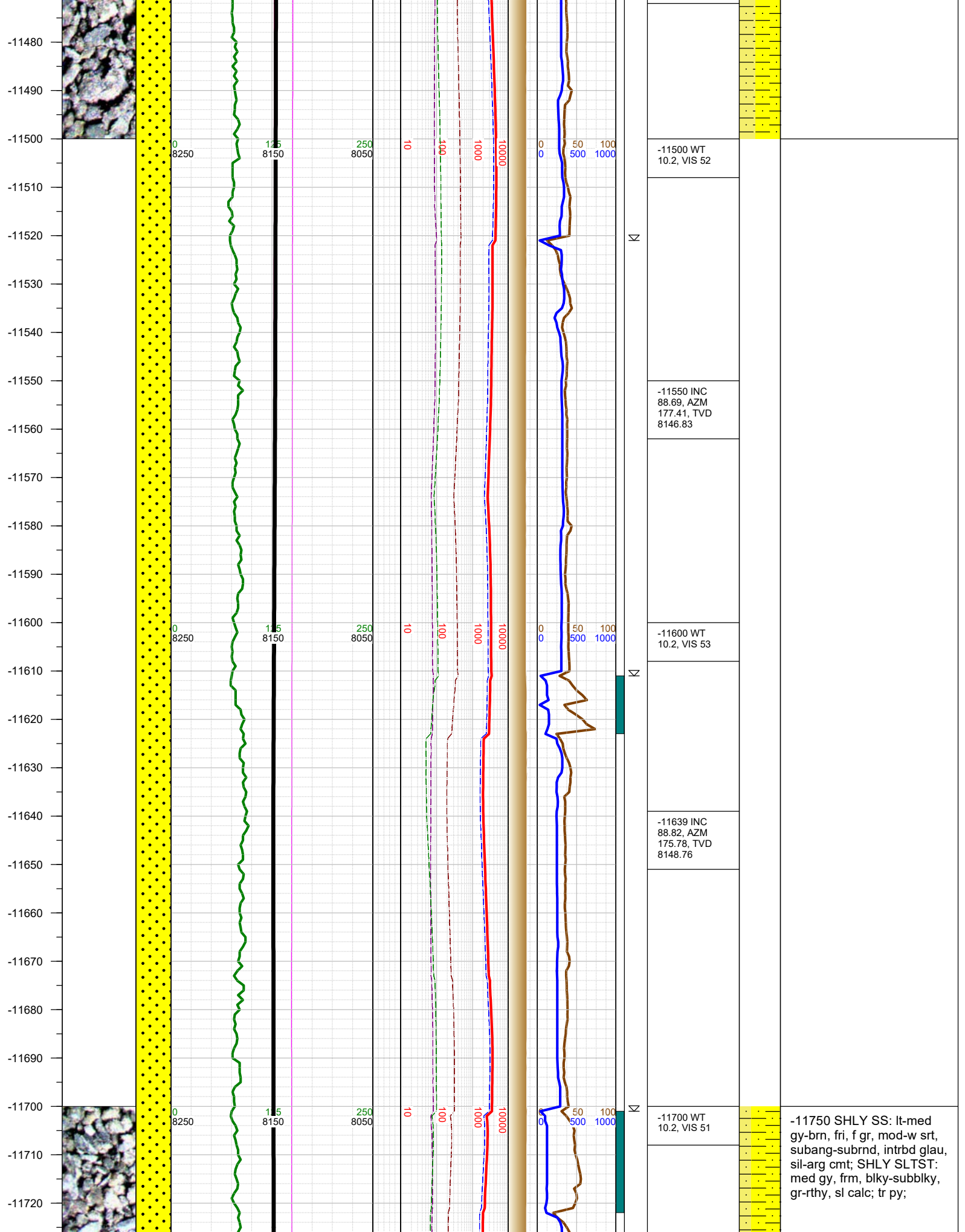




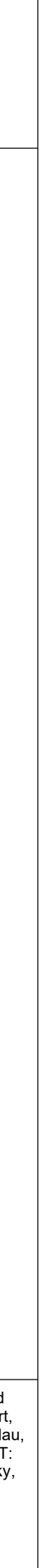
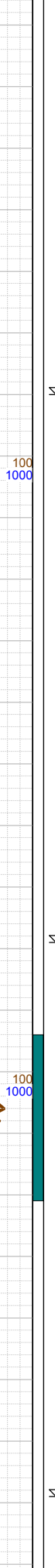
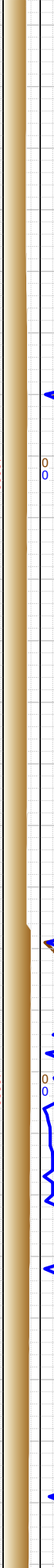
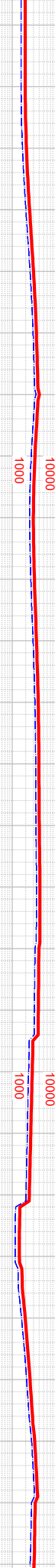
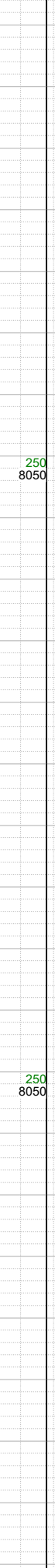
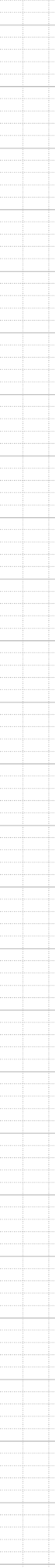
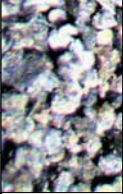




-11500 SHLY SS: lt-med gy-brn, fri, f gr, mod-w srt, subang-subrnd, intrbd glau, sil-arg cmt; SHLY SLTST: med gy, frm, blk-subblky, gr-rthy, sl calc; tr py;



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-11729 INC
91.69, AZM
177.32, TVD
8148.36

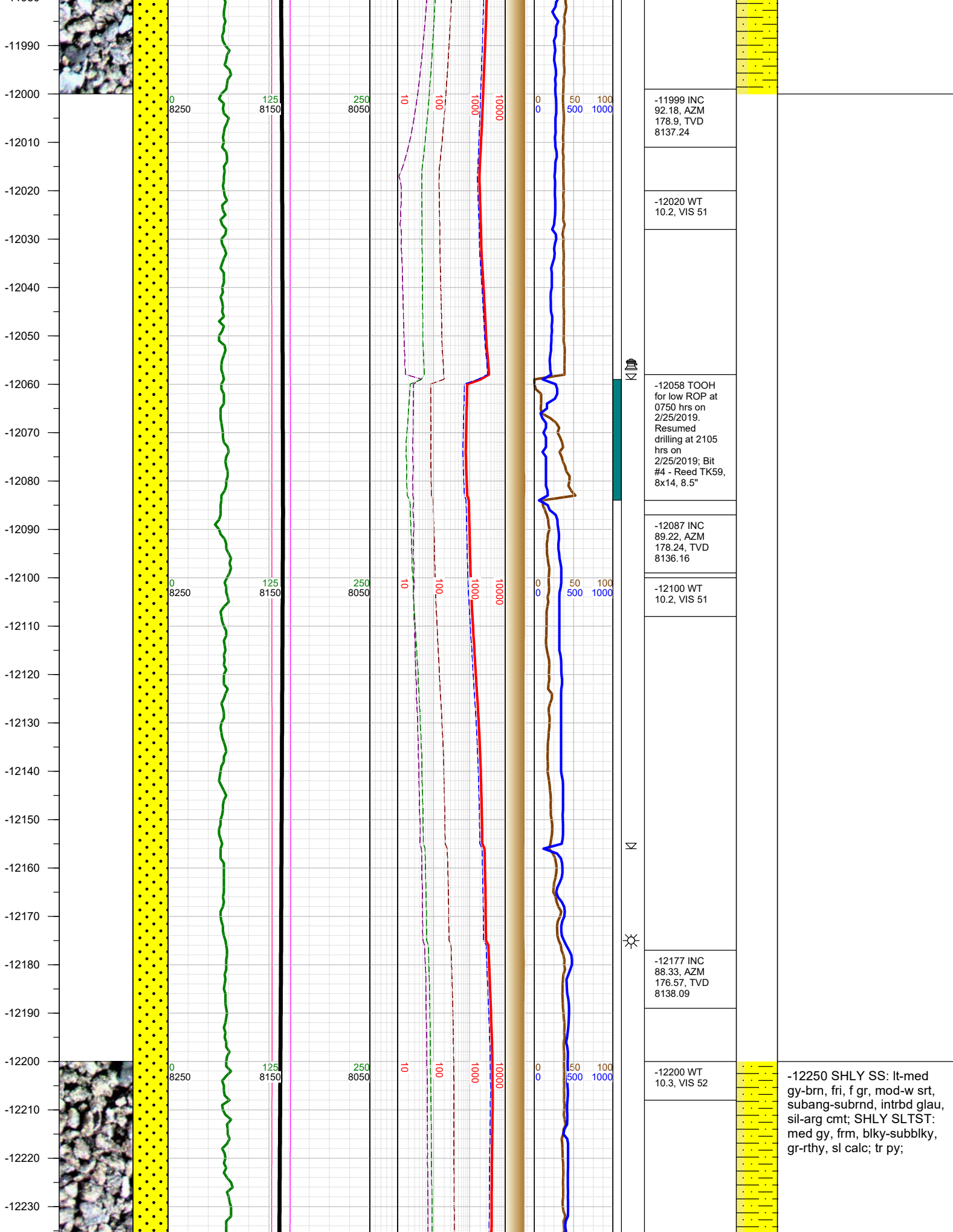
-11800 WT
10.2, VIS 51

-11819 INC
92.18, AZM
177.41, TVD
8145.32

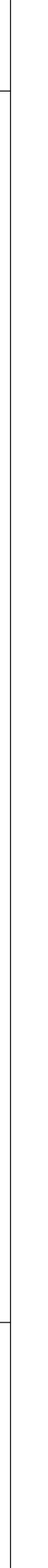
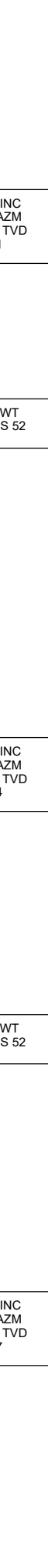
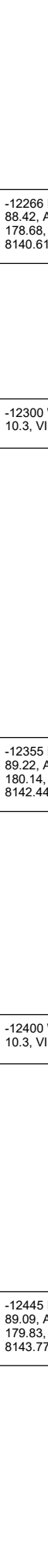
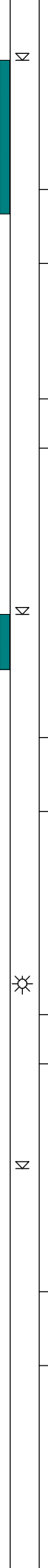
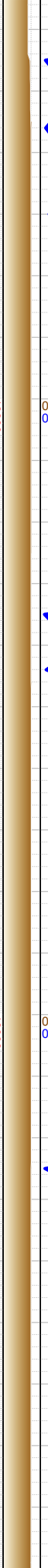
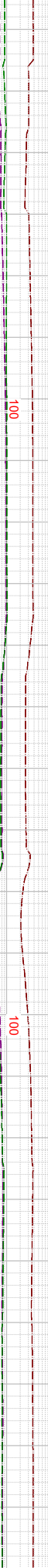
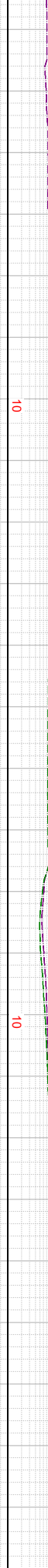
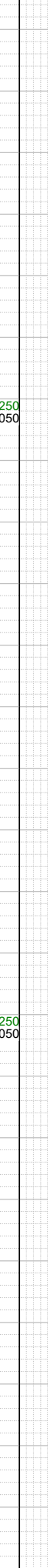
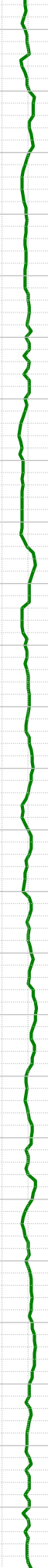
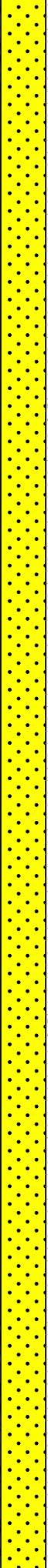
-11900 WT
10.2, VIS 51

-11909 INC
92.97, AZM
178.51, TVD
8141.28

-12000 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
subang-subrnd, intrbd glau,
sil-arg cmt; SHLY SLTST:
med gy, frm, blk-subblky,
gr-rthy, sl calc; tr py;



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-12266 INC
88.42, AZM
178.68, TVD
8140.61

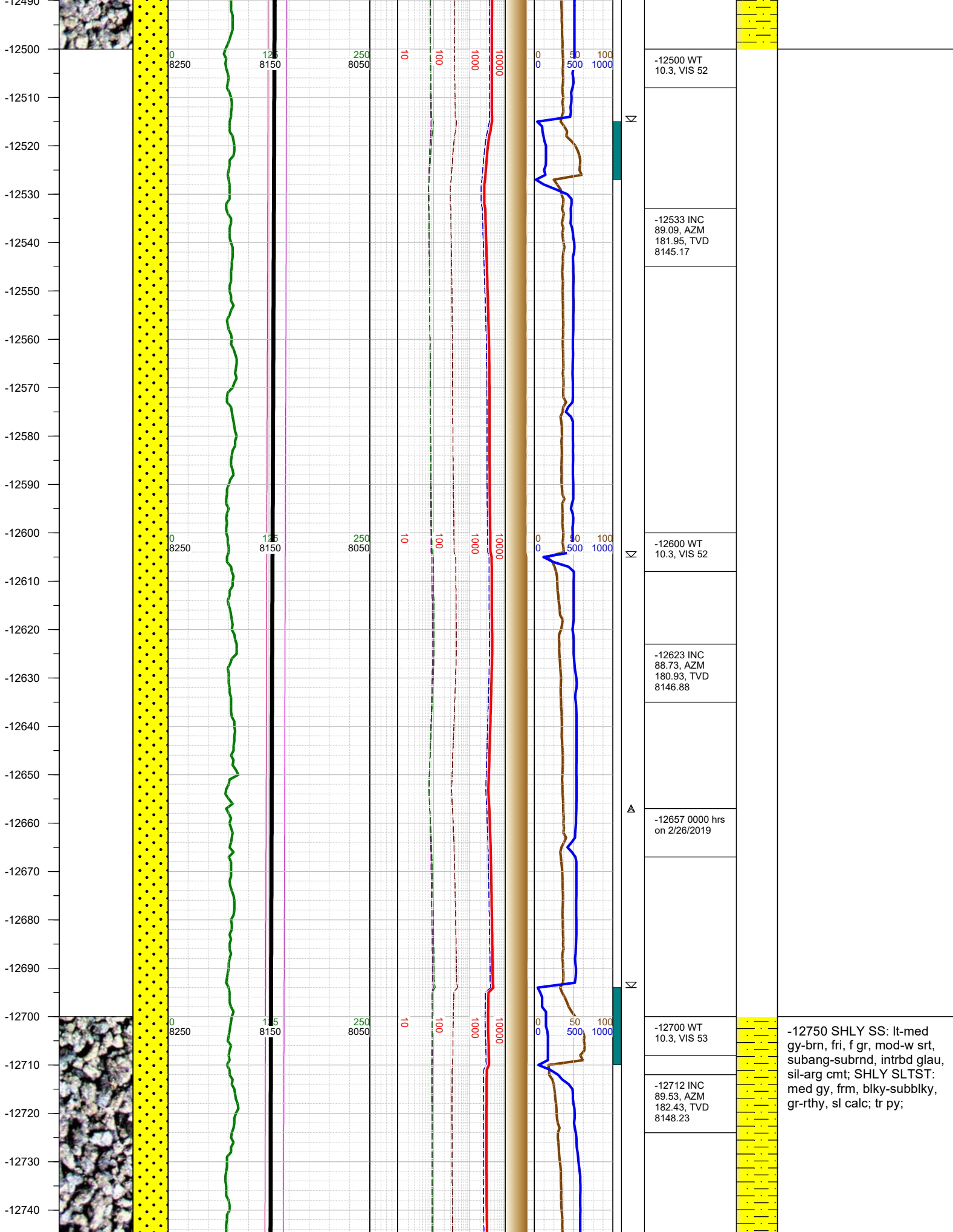
-12300 WT
10.3, VIS 52

-12355 INC
89.22, AZM
180.14, TVD
8142.44

-12400 WT
10.3, VIS 52

-12445 INC
89.09, AZM
179.83, TVD
8143.77

-12500 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
subang-subrnd, intrbd glau,
sil-arg cmt; SHLY SLTST:
med gy, frm, blk-subblky,
gr-rthy, sl calc; tr py;



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-12802 INC
89.7, AZM
182.08, TVD
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-12820 WT
10.3, VIS 53

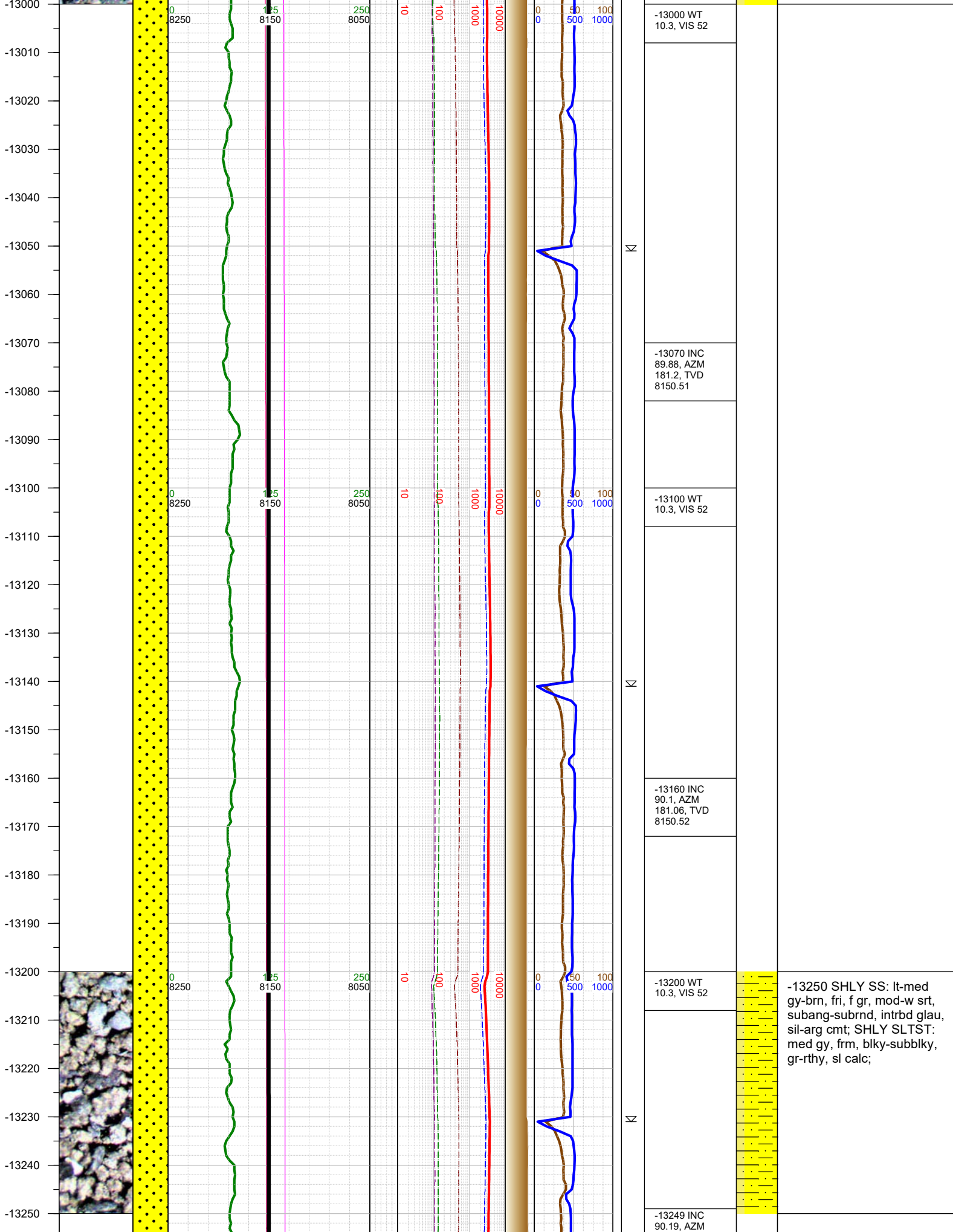
-12891 INC
88.95, AZM
180.84, TVD
8149.88

-12910 WT
10.3, VIS 52

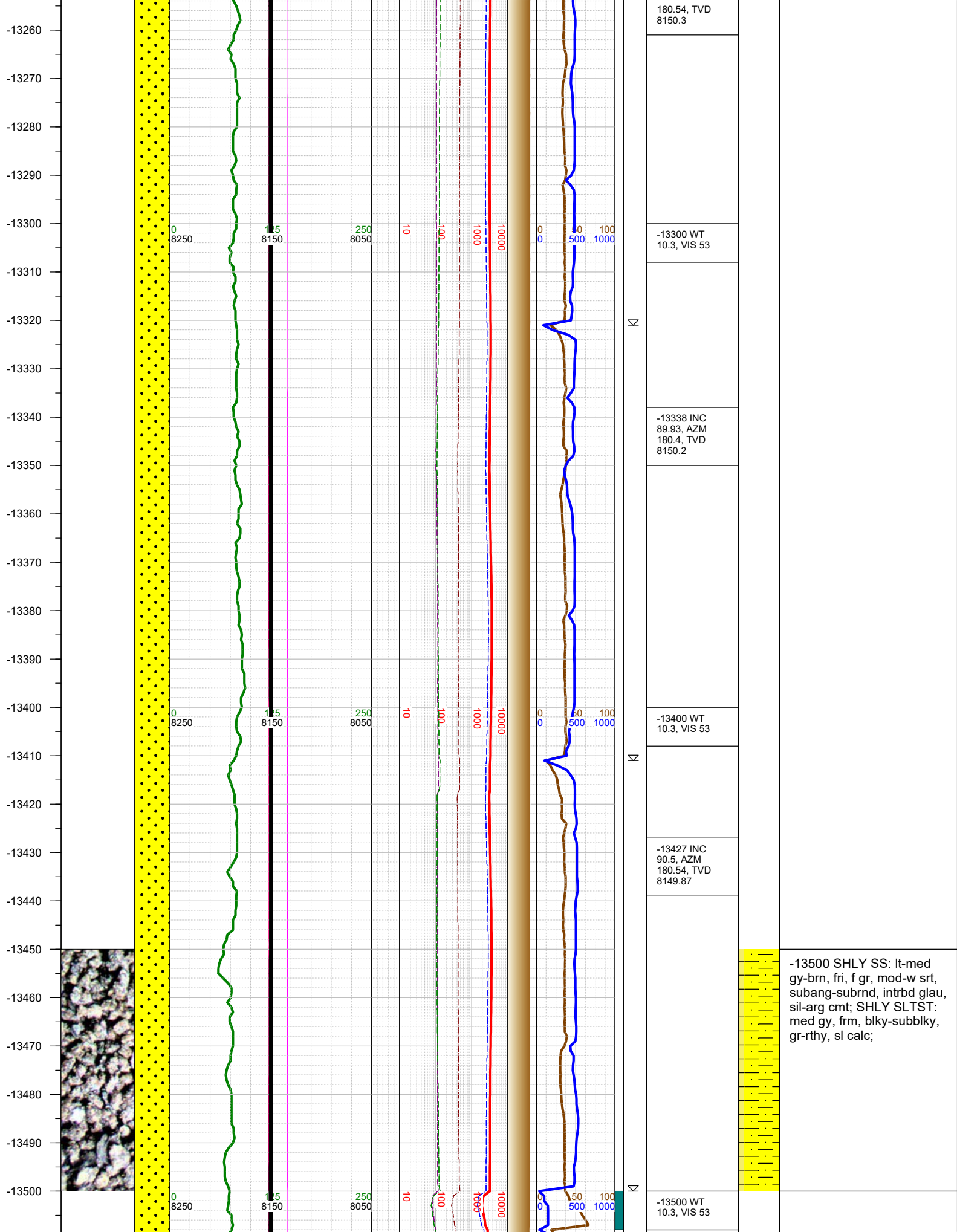
-12981 INC
90.19, AZM
181.59, TVD
8150.56

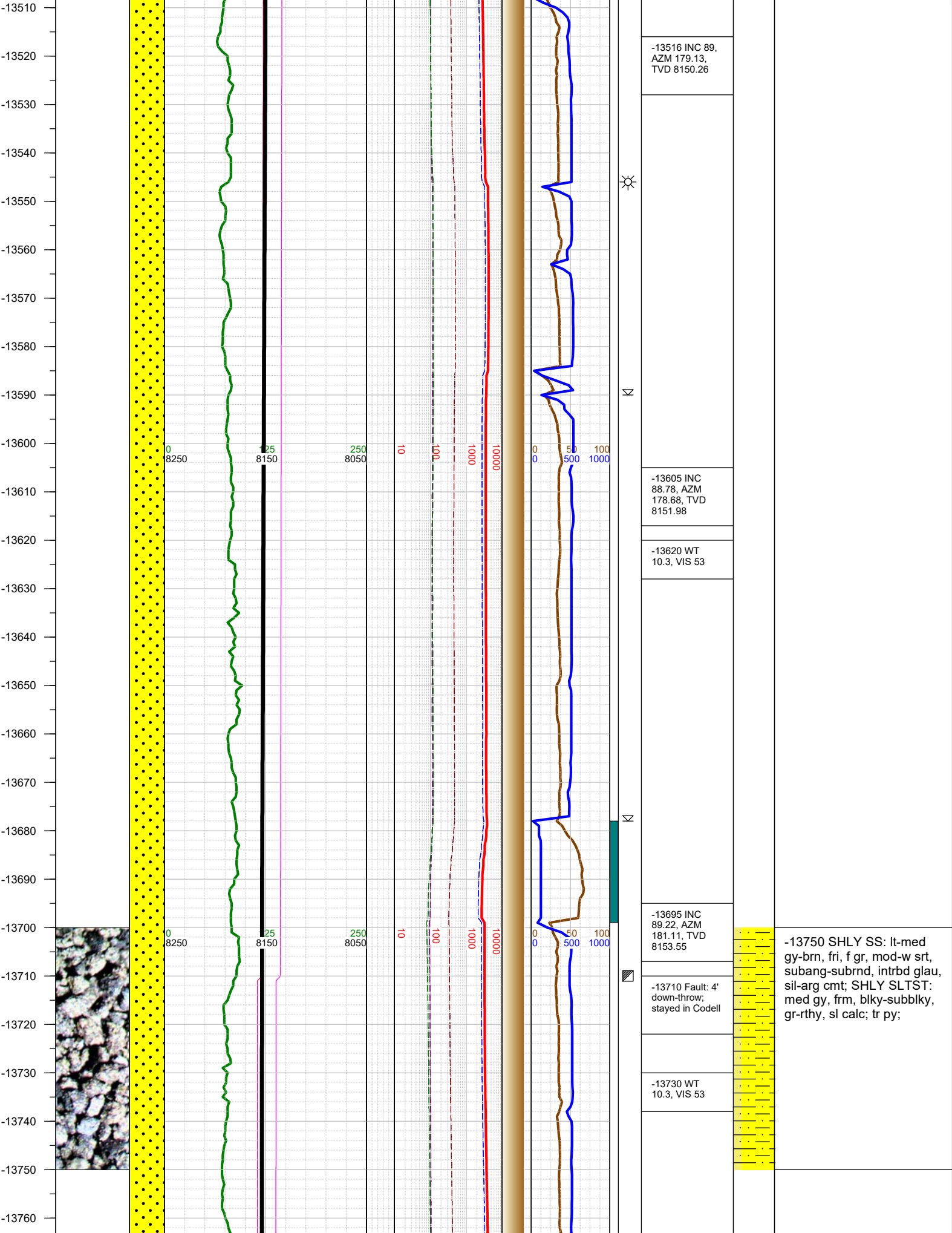


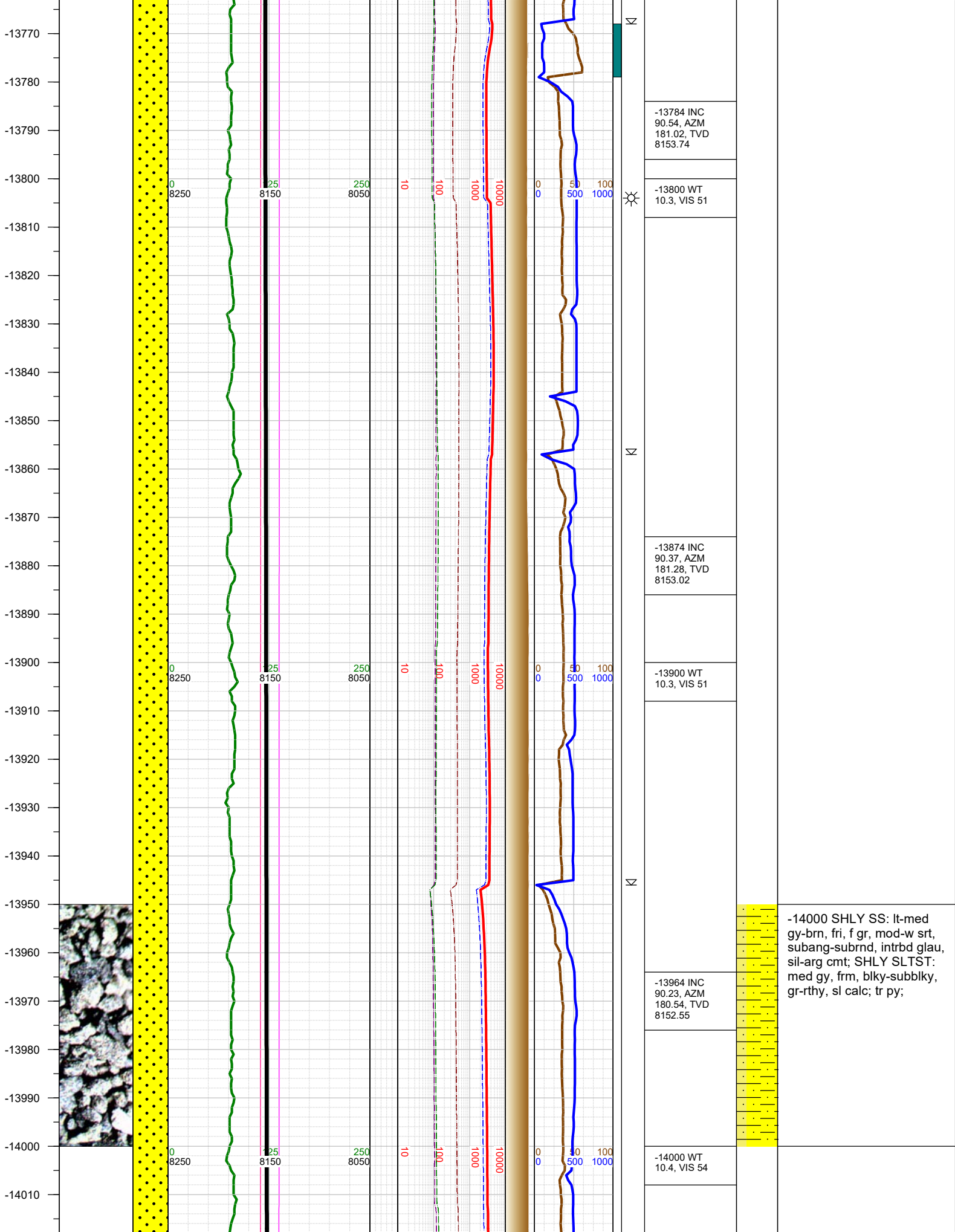
-13000 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
subang-subrnd, intrbd glau,
sil-arg cmt; SHLY SLTST:
med gy, frm, blk-y-subblky,
gr-rthy, sl calc; tr py;

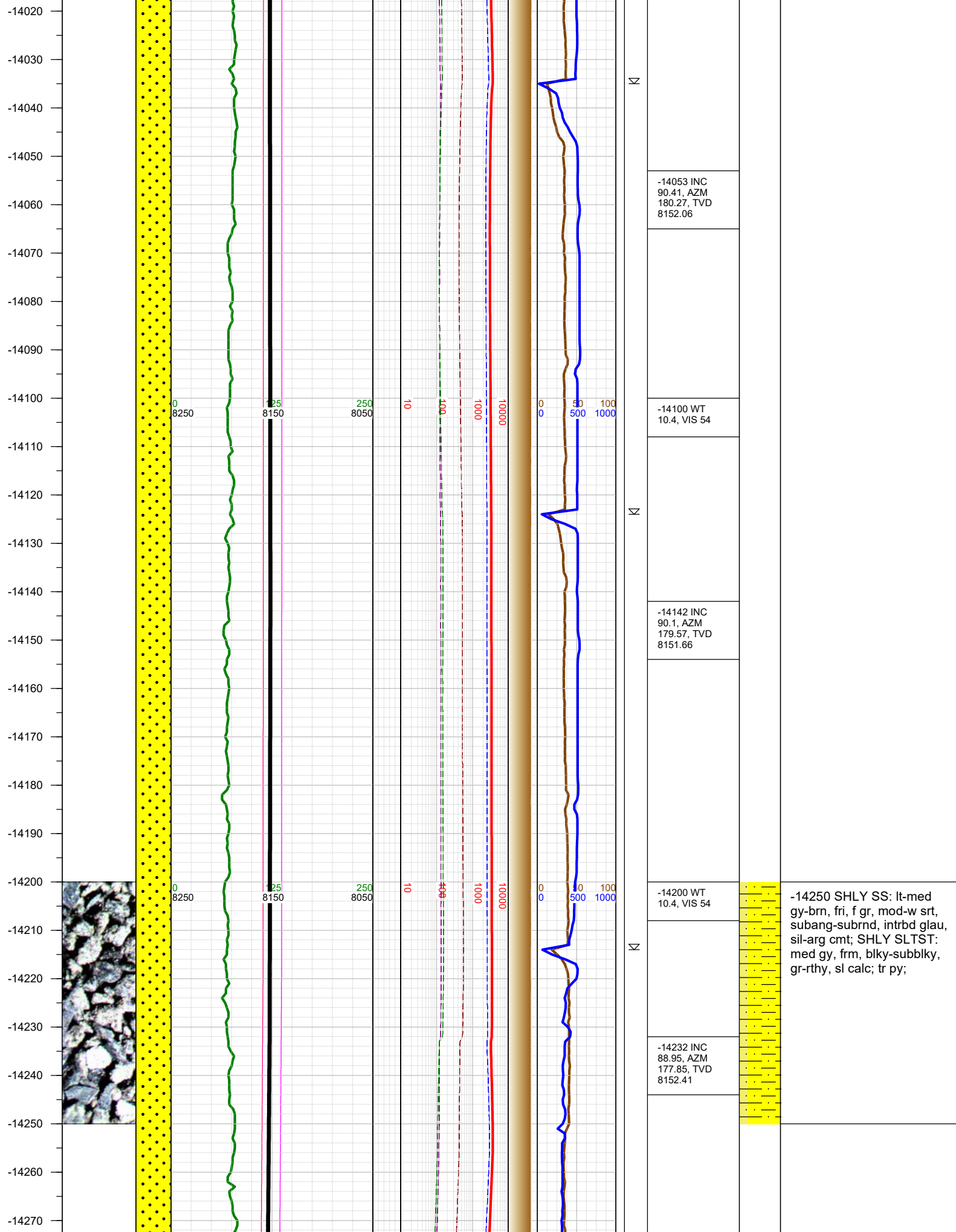


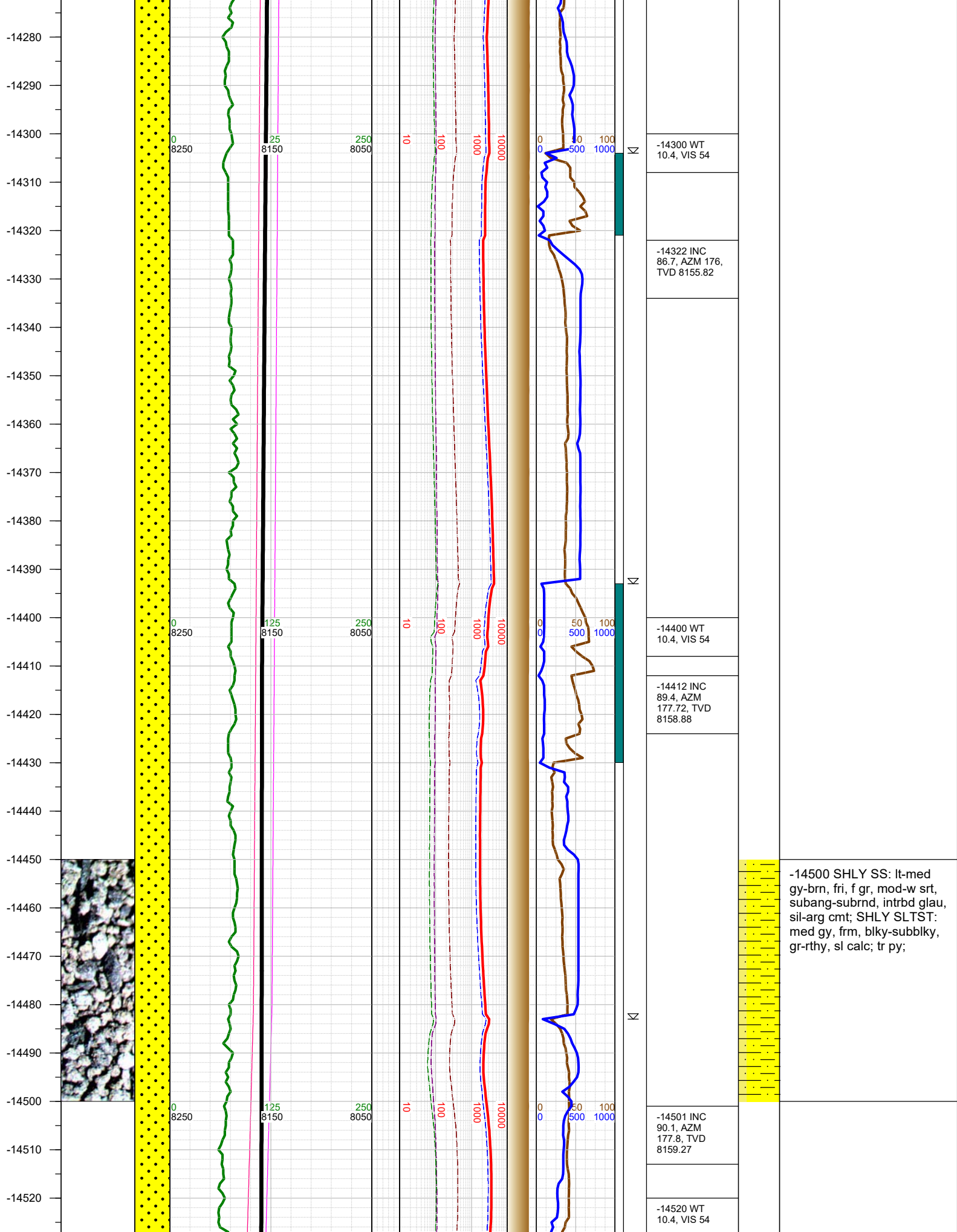
-13250 SHLY SS: lt-med gy-brn, fri, f gr, mod-w srt, subang-subrnd, intrbd glau, sil-arg cmt; SHLY SLTST: med gy, frm, blk-subblky, gr-rthy, sl calc;



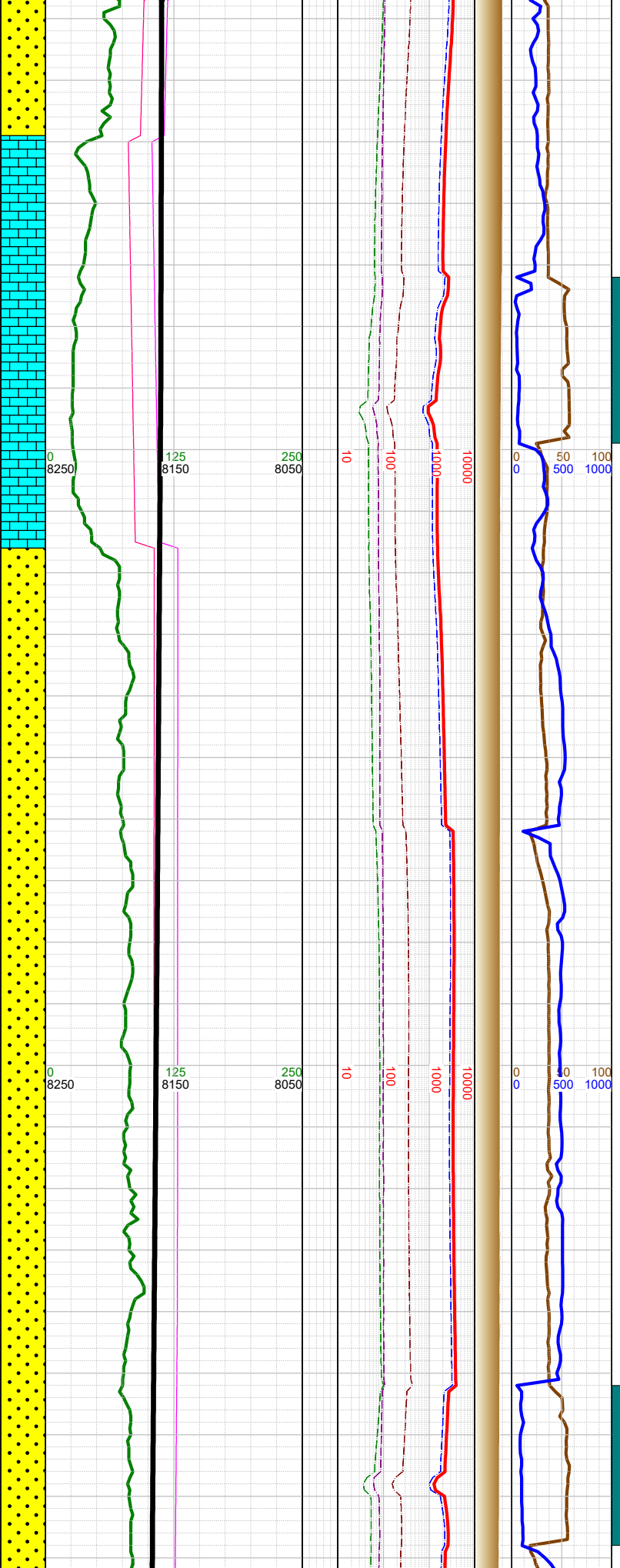




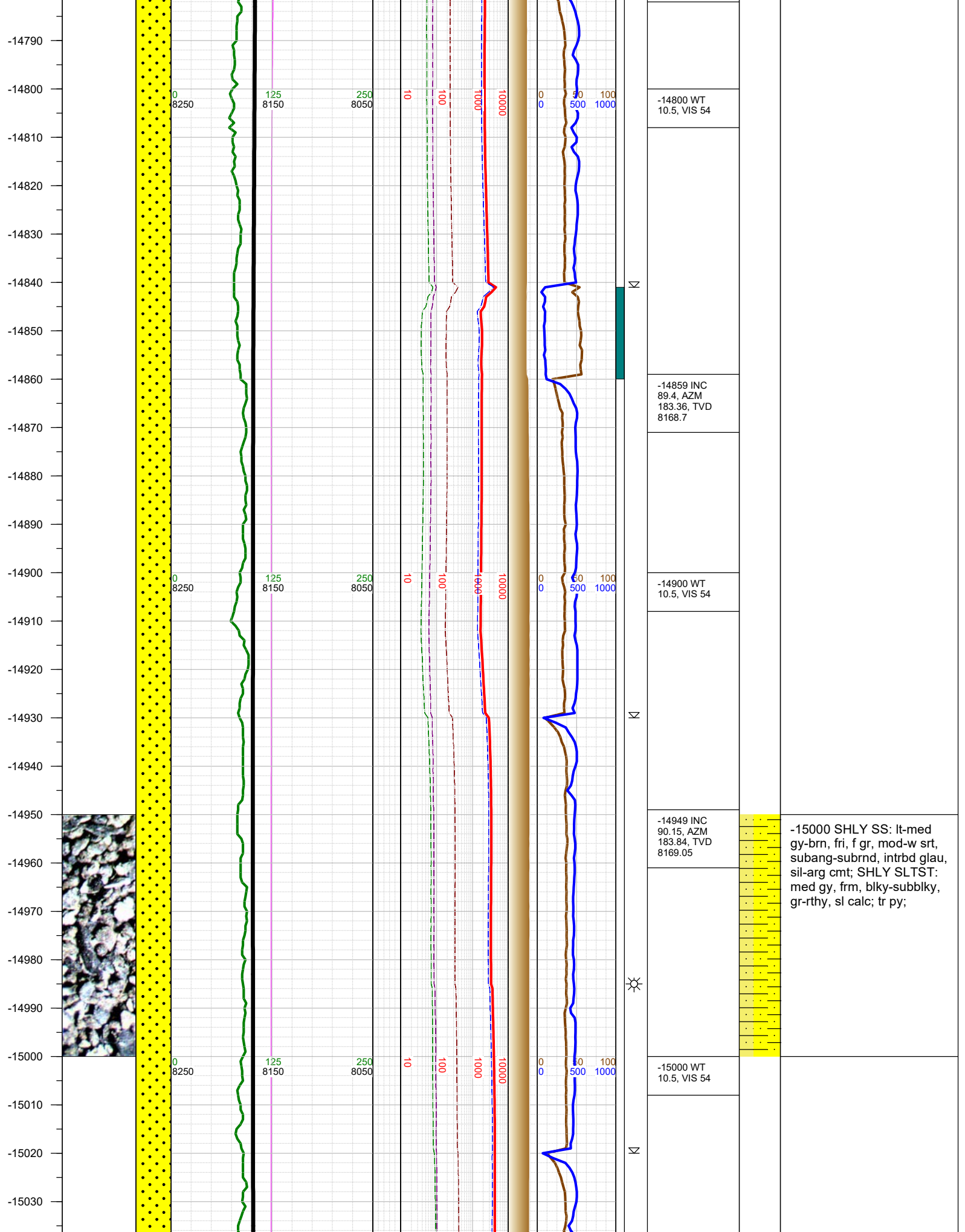


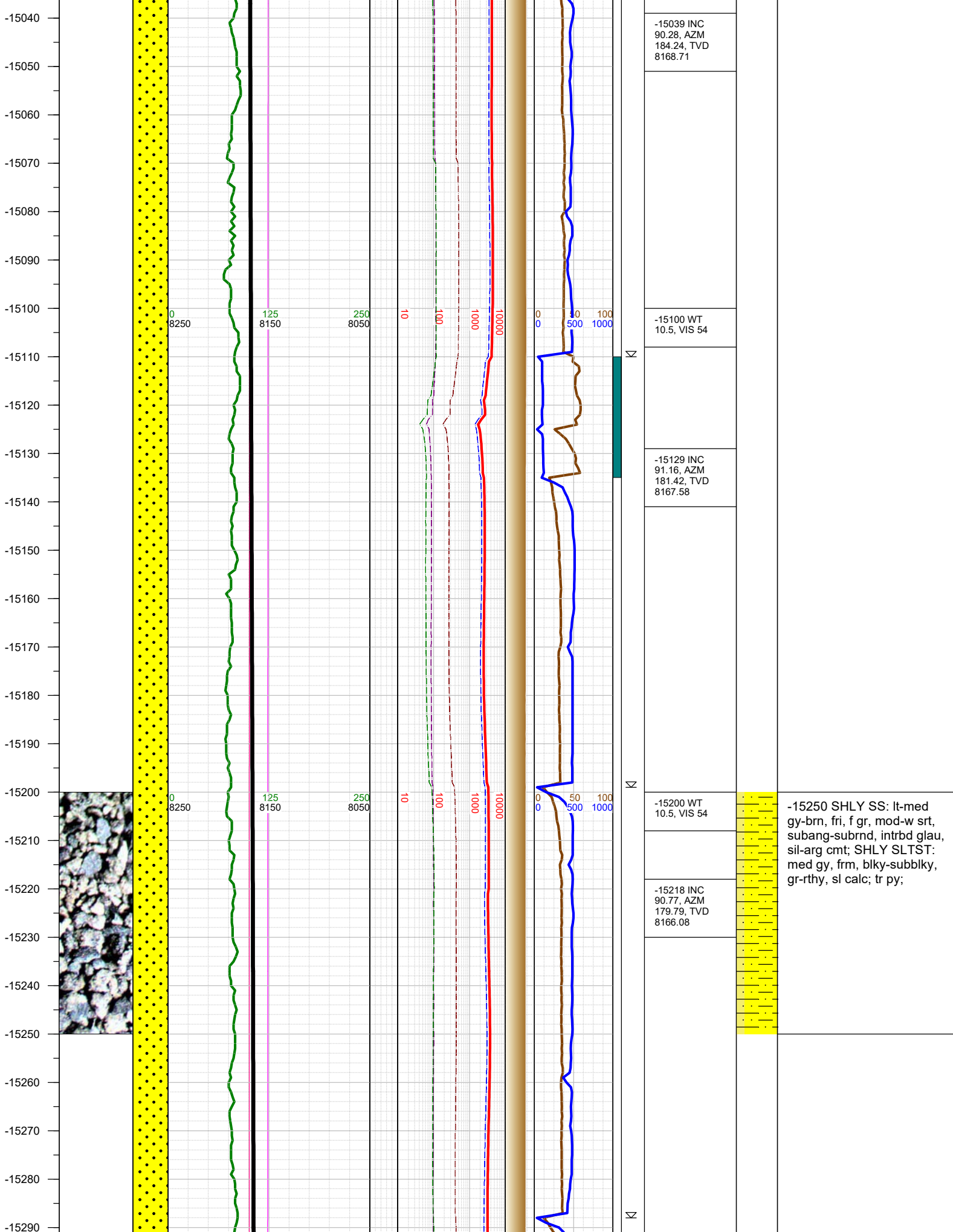


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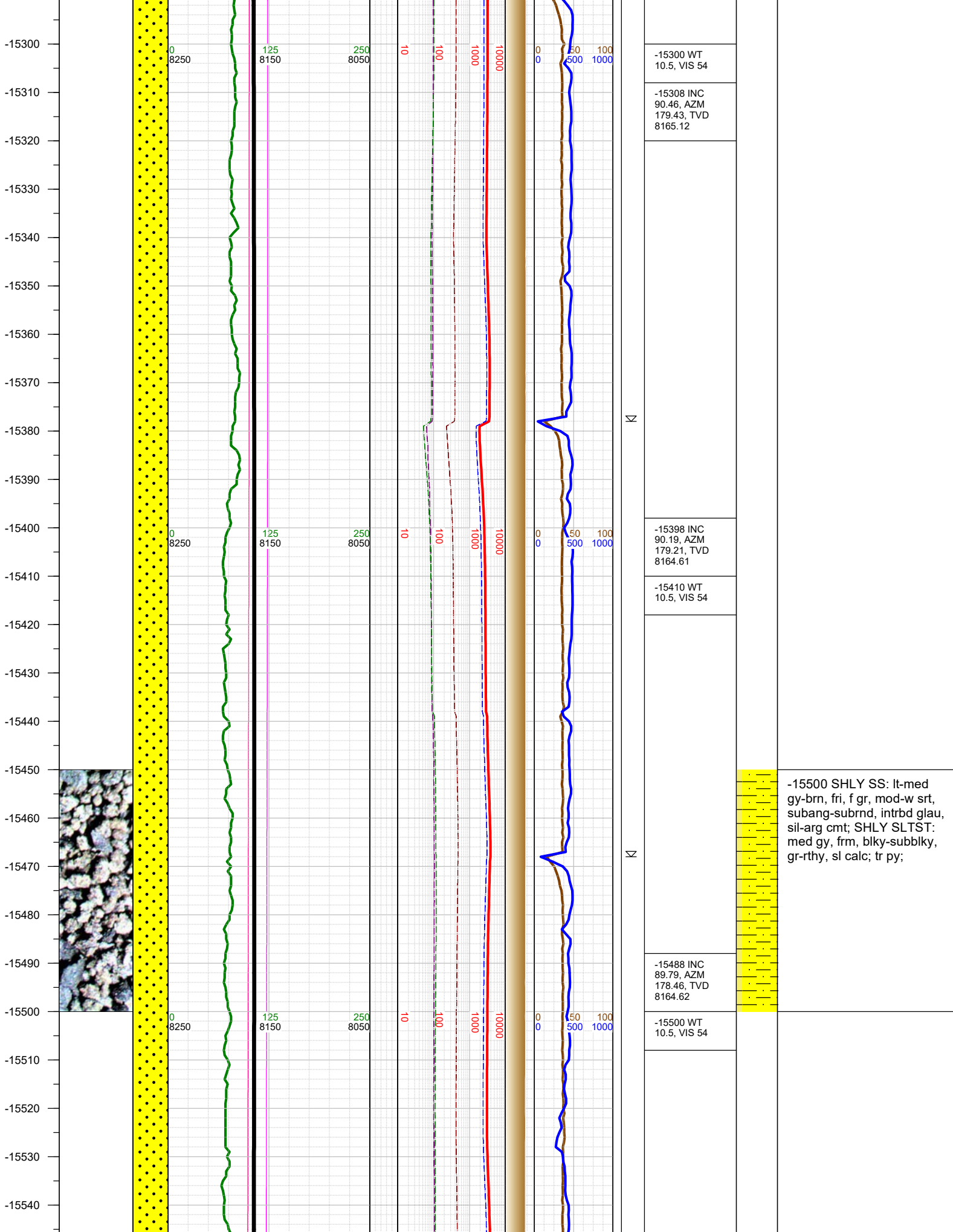


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|---|--|--|
| -14549 Fault: 9' down-throw; went from Codell to Ft. Hays | | |
| | | |
| -14591 INC 88.56, AZM 180.27, TVD 8160.33 | | |
| -14616 Fault: 15' up-throw; went from Ft. Hays to Codell | | |
| -14630 WT 10.5, VIS 54 | | |
| -14681 INC 87.76, AZM 179.7, TVD 8163.21 | | |
| -14700 WT 10.5, VIS 54 | | -14750 SHLY SS: lt-med gy-brn, fri, f gr, mod-w srt, subang-subrnd, intrbd glau, sil-arg cmt; SHLY SLTST: med gy, frm, blk-subblky, gr-rthy, sl calc; tr py; |
| -14770 INC 87.89, AZM 182.12, TVD 8166.59 | | |





-15250 SHLY SS: lt-med gy-brn, fri, f gr, mod-w srt, subang-subrnd, intrbd glau, sil-arg cmt; SHLY SLTST: med gy, frm, blk-subblky, gr-rthy, sl calc; tr py;



-15300 WT
10.5, VIS 54

-15308 INC
90.46, AZM
179.43, TVD
8165.12

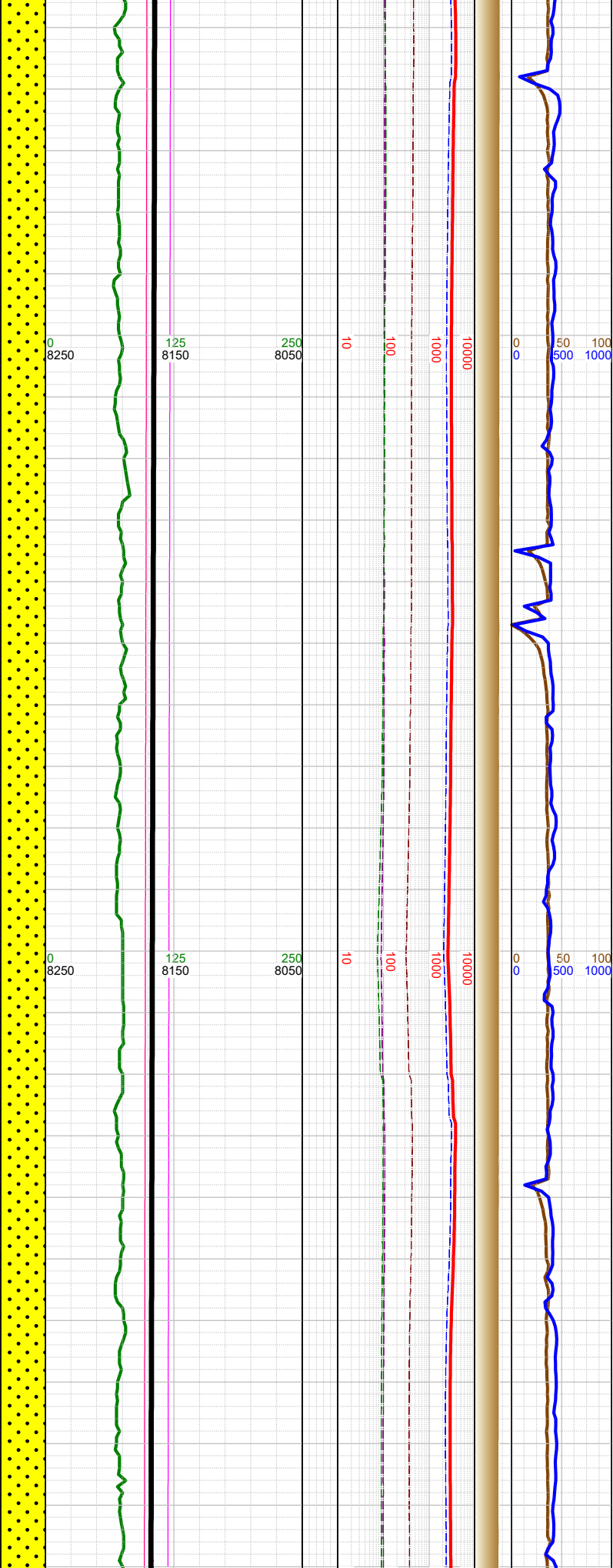
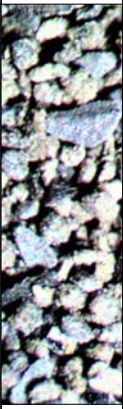
-15398 INC
90.19, AZM
179.21, TVD
8164.61

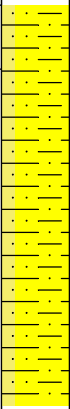
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10.5, VIS 54

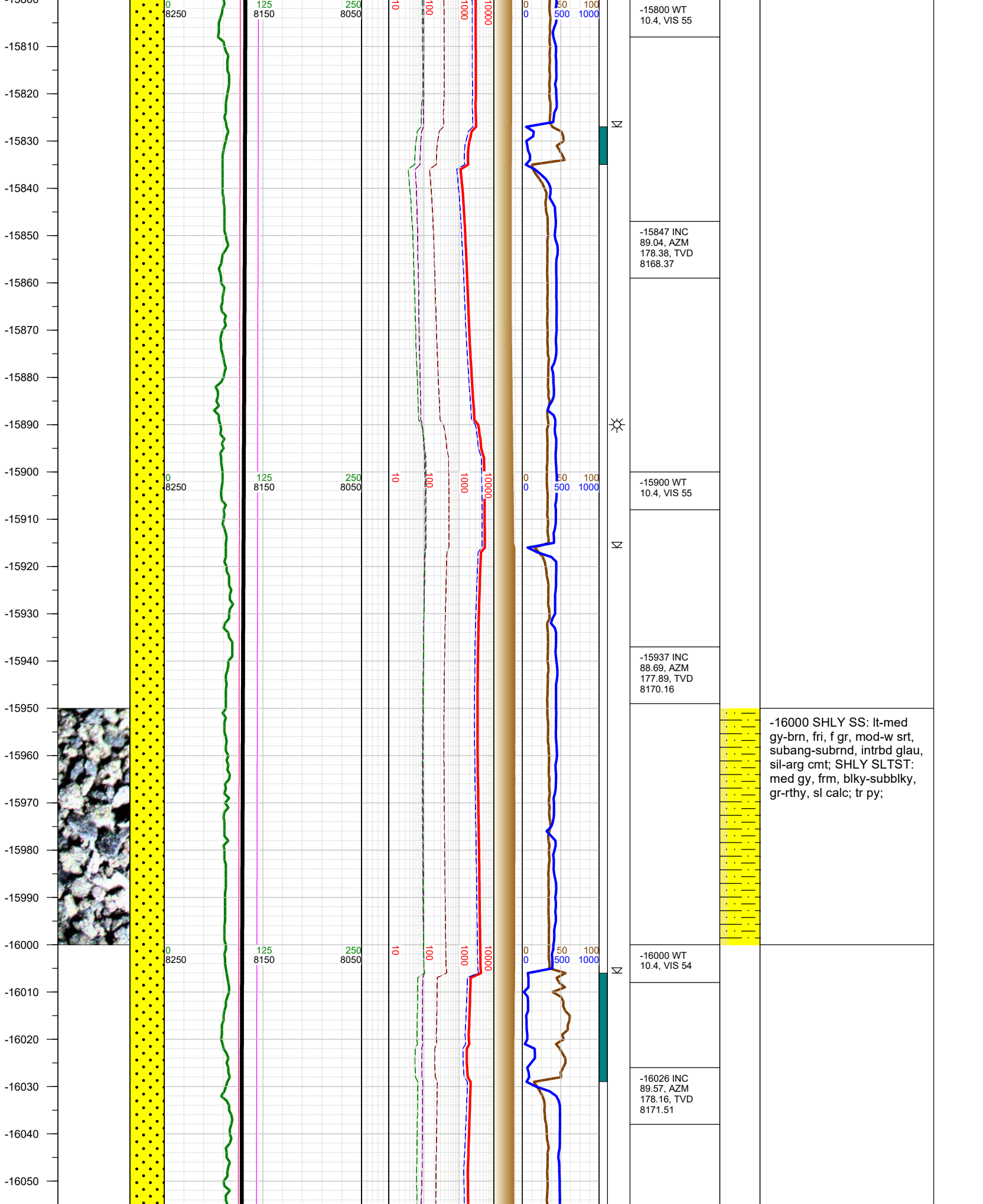
-15488 INC
89.79, AZM
178.46, TVD
8164.62

-15500 WT
10.5, VIS 54

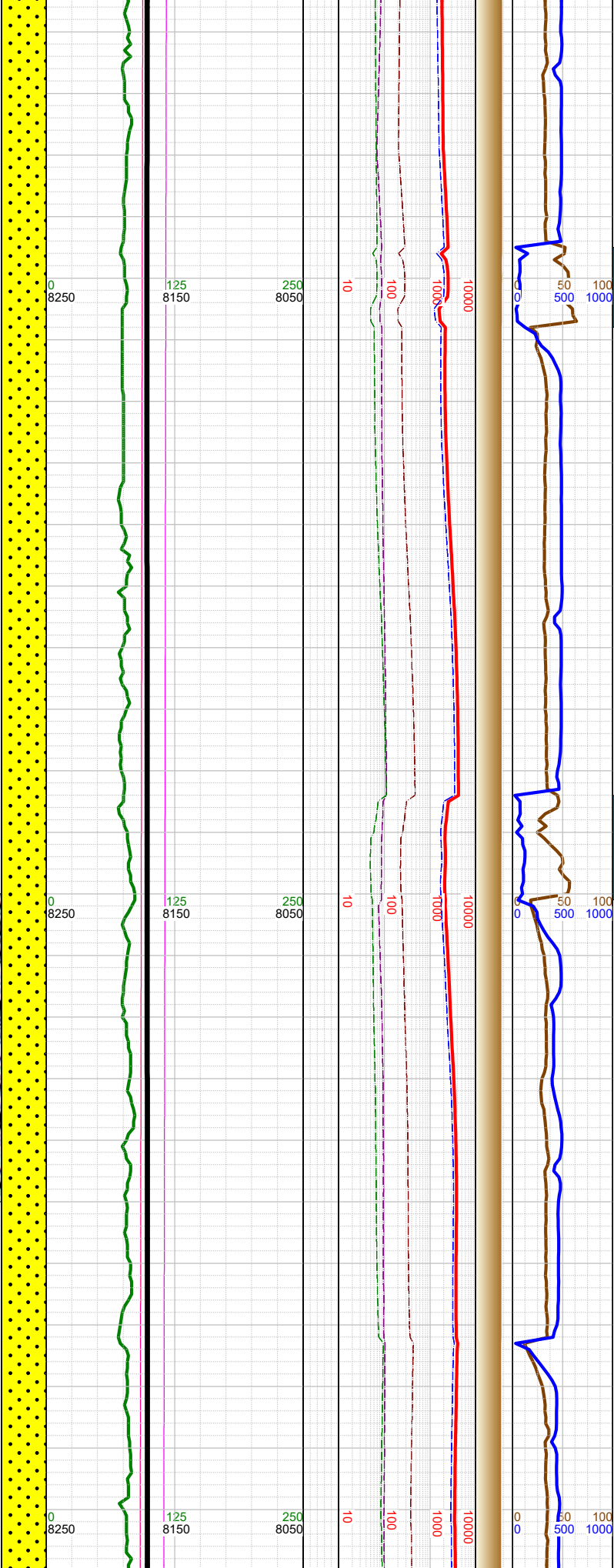
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| N | | -15578 INC 89.35, AZM 177.89, TVD 8165.3 | | |
| | | -15600 WT 10.5, VIS 54 | | |
| N | | -15668 INC 89.09, AZM 177.67, TVD 8166.52 | | |
| | | -15700 WT 10.4, VIS 55 |  | -15750 SHLY SS: lt-med gy-brn, fri, f gr, mod-w srt, subang-subrnd, intrbd glau, sil-arg cmt; SHLY SLTST: med gy, frm, blk-subblky, gr-rthy, sl calc; tr py; |
| N | | -15757 INC 89.75, AZM 177.36, TVD 8167.42 | | |
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-16100 WT
10.4, VIS 55

-16115 INC
90.19, AZM
178.51, TVD
8171.69

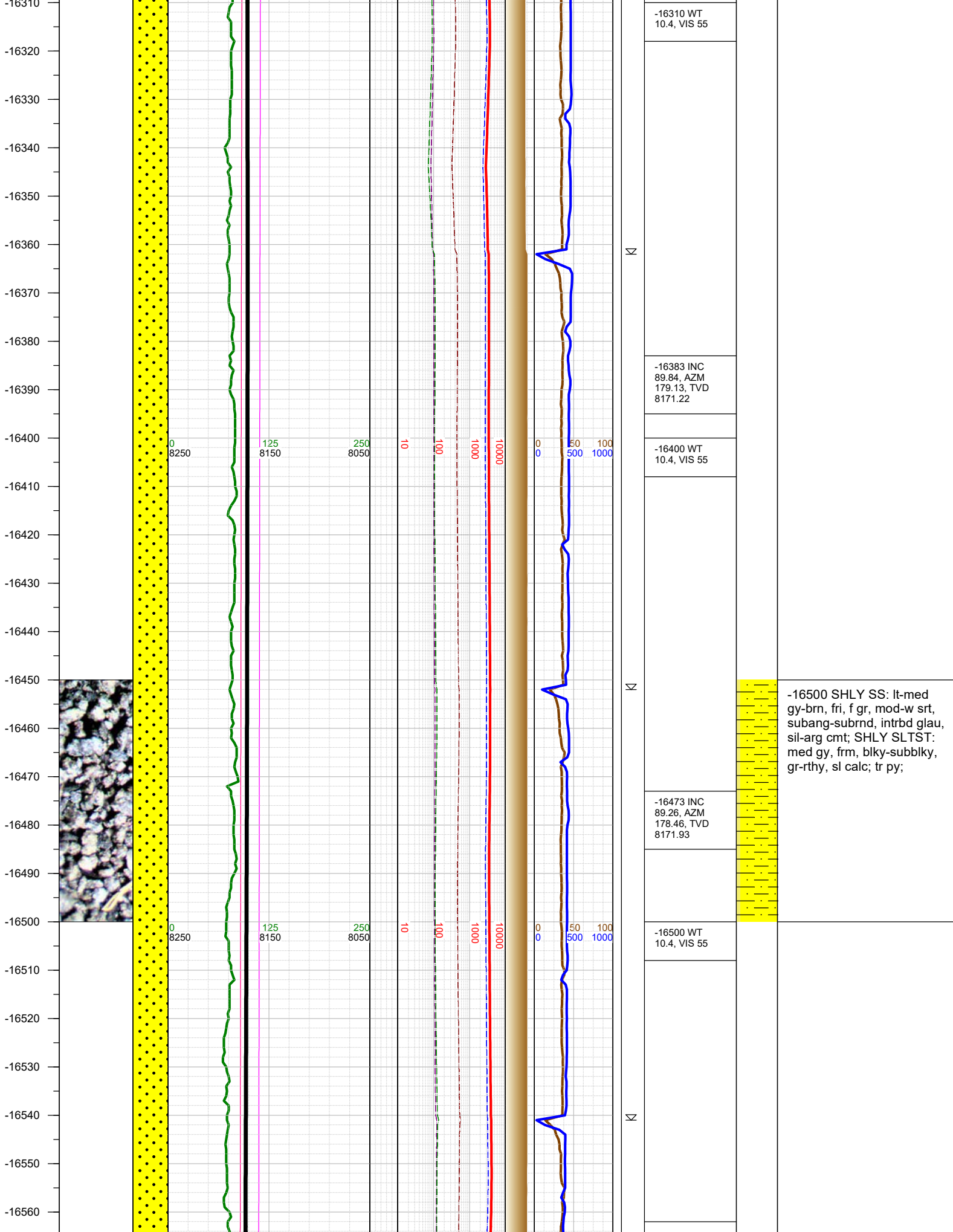
-16204 INC
90.06, AZM
180.09, TVD
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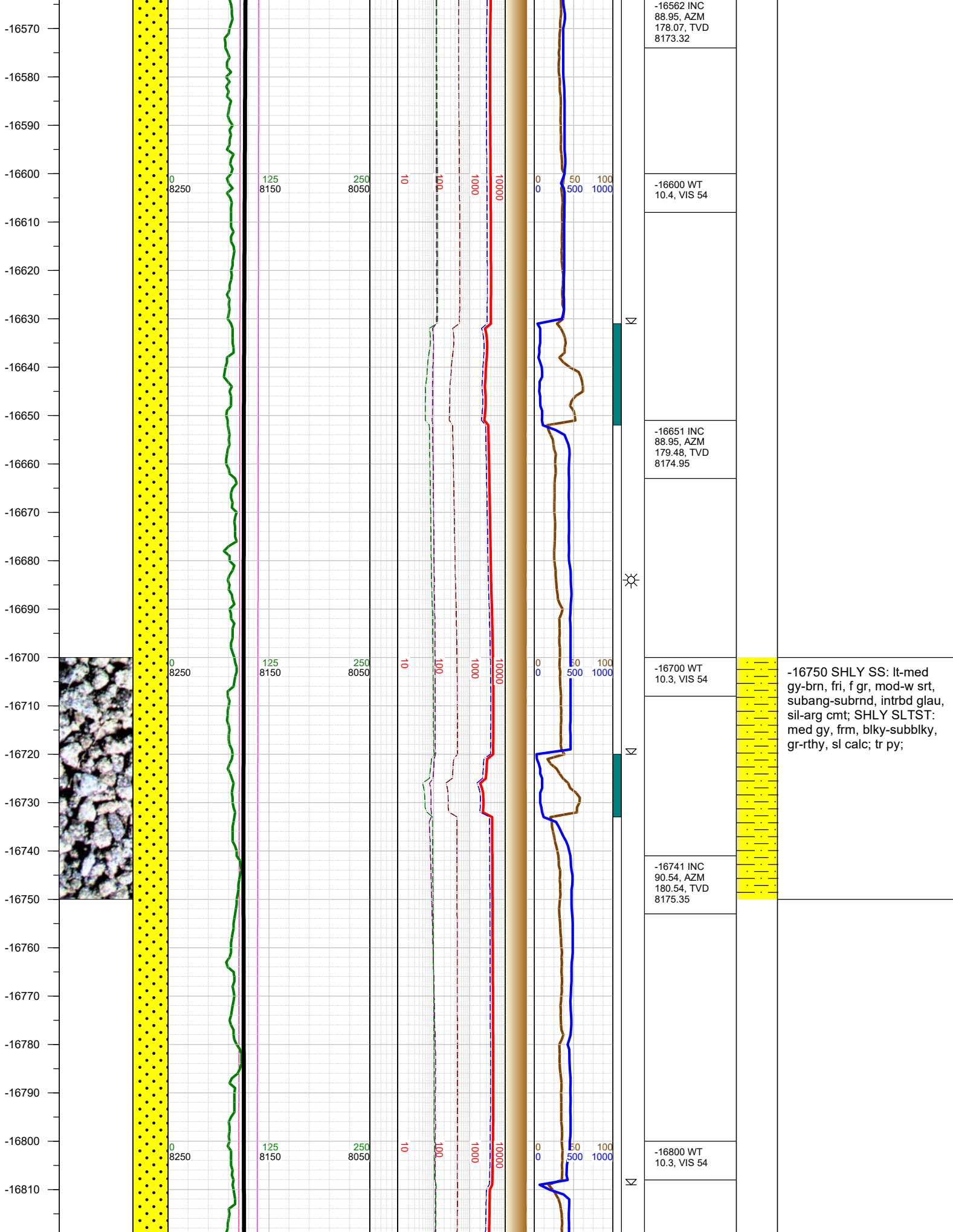
-16220 WT
10.4, VIS 55

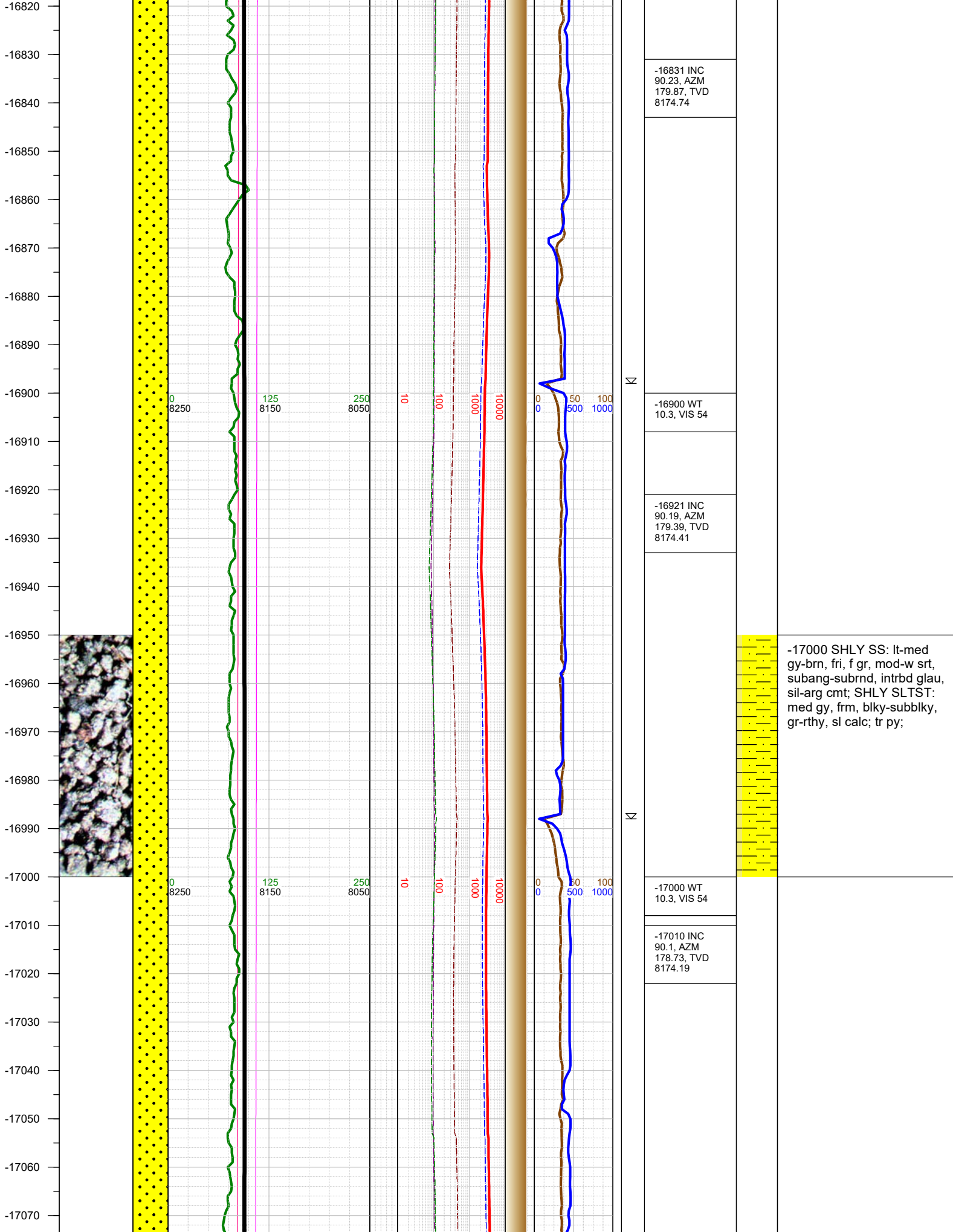
-16293 INC
90.23, AZM
179.65, TVD
8171.28

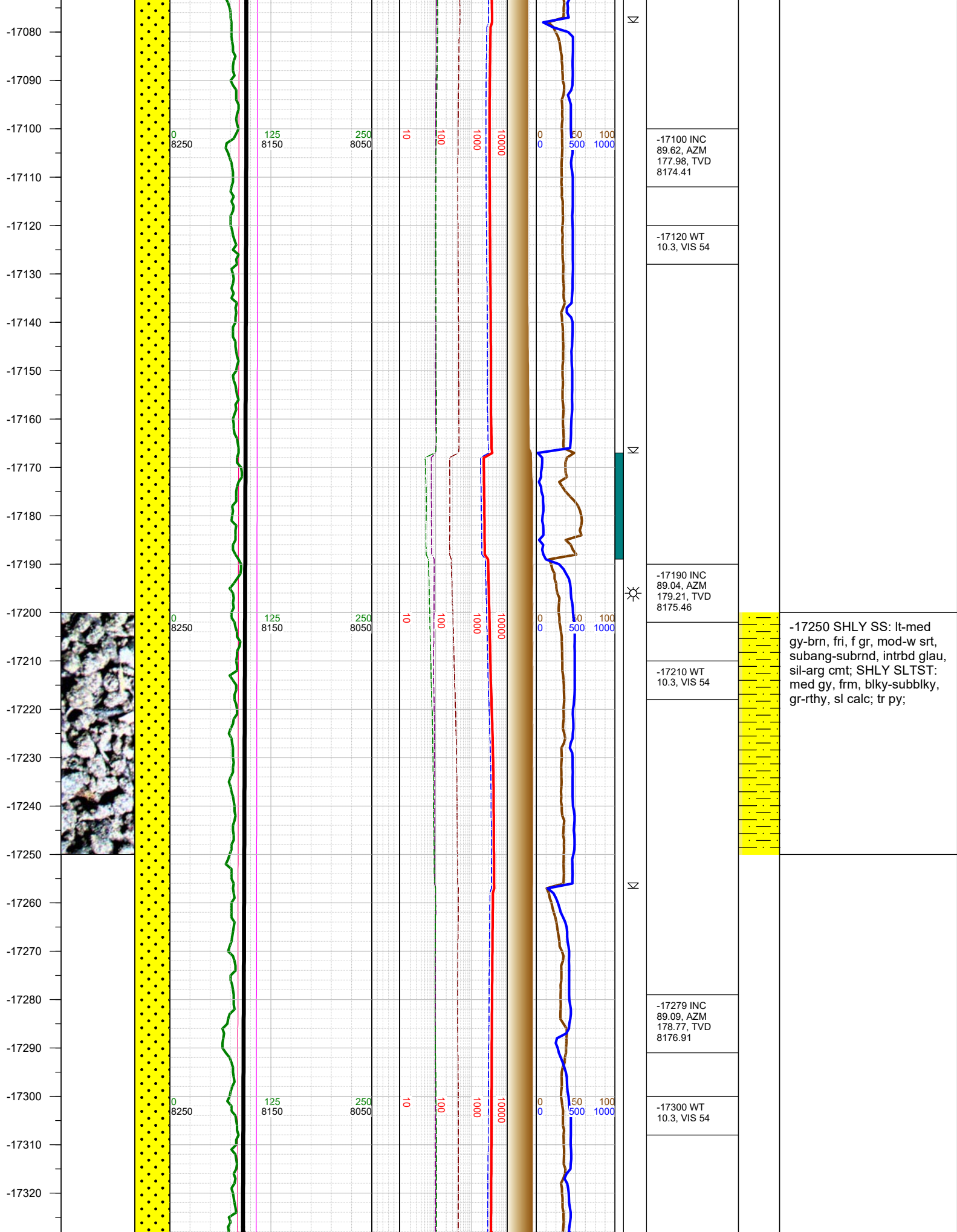


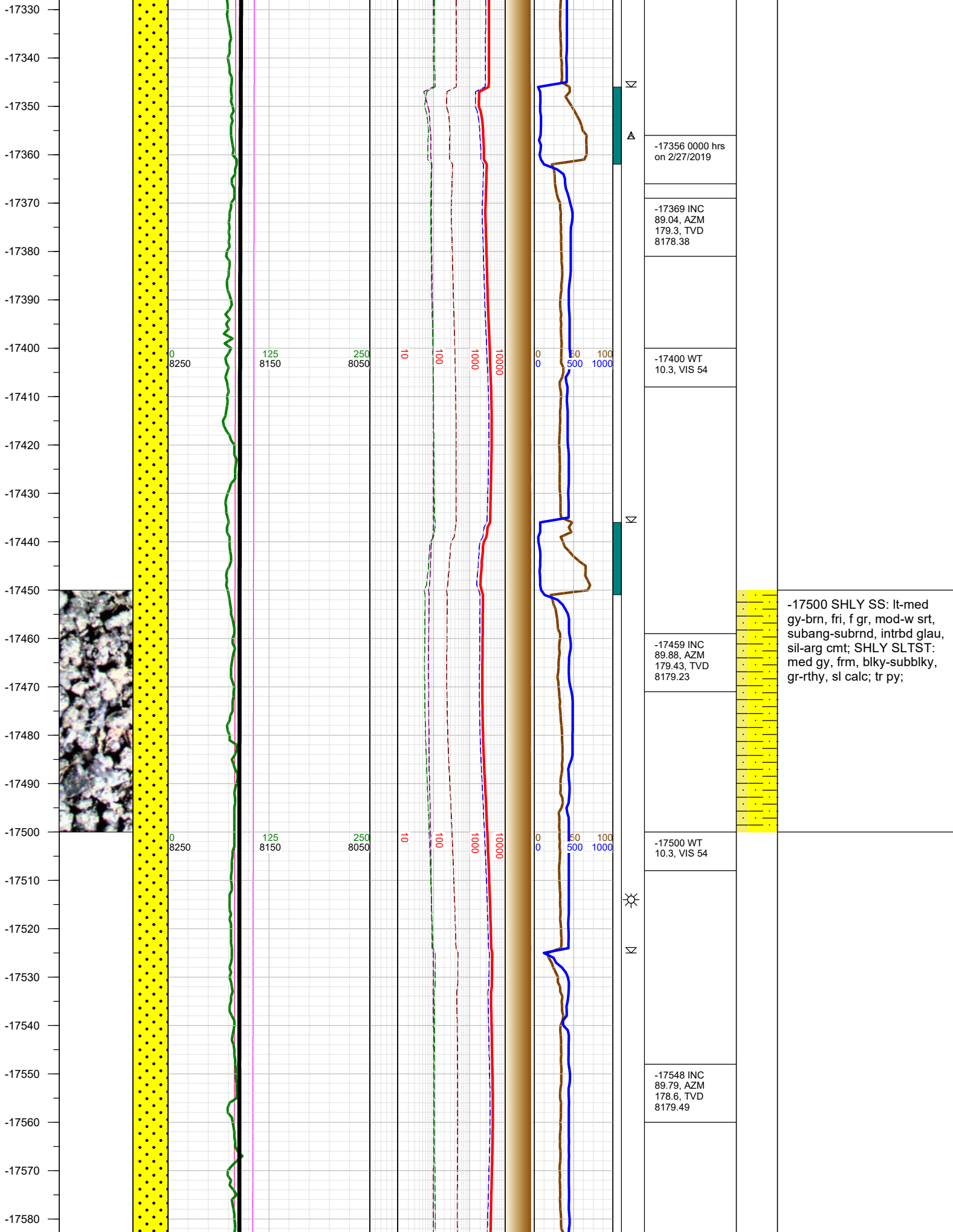
-16250 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
subang-subrnd, intrbd glau,
sil-arg cmt; SHLY SLTST:
med gy, frm, blk-subblky,
gr-rthy, sl calc; tr py;

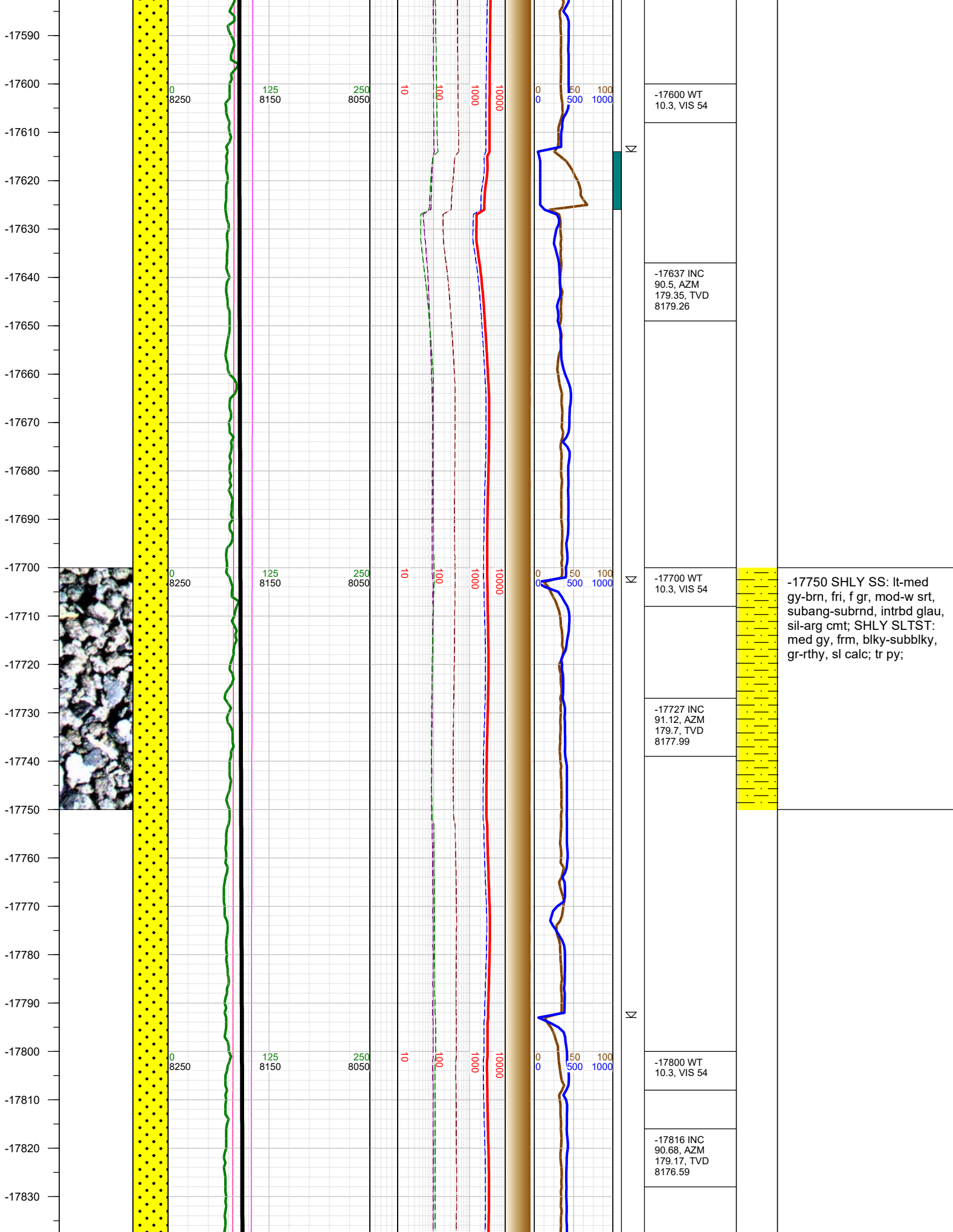




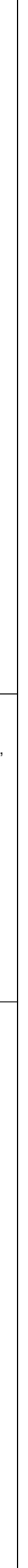
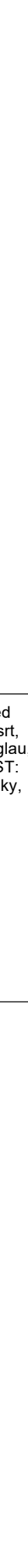
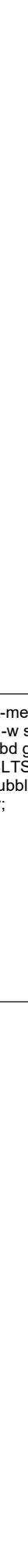
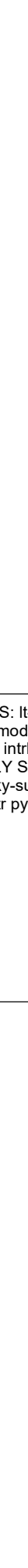
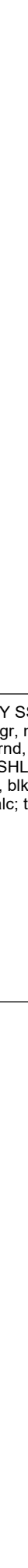
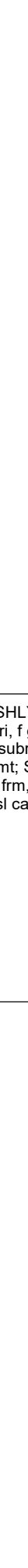
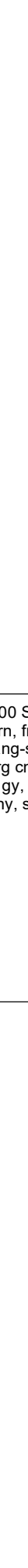
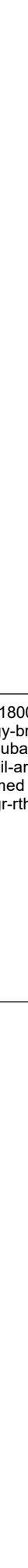
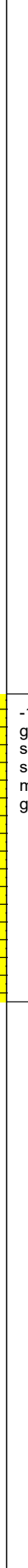
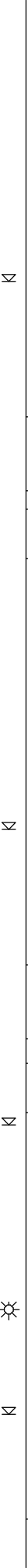
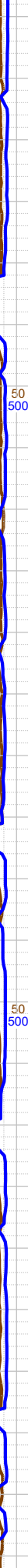
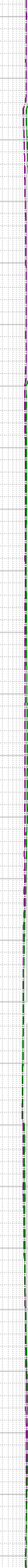
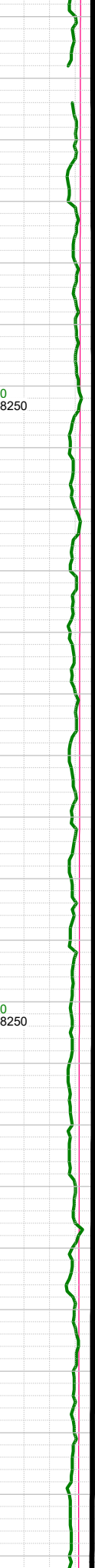
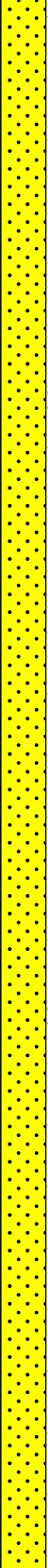








-17840
-17850
-17860
-17870
-17880
-17890
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-17990
-18000
-18010
-18020
-18030
-18040
-18050
-18060
-18070
-18080
-18090



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N

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-17905 INC
90.41, AZM
178.07, TVD
8175.74

-17920 WT
10.3, VIS 54

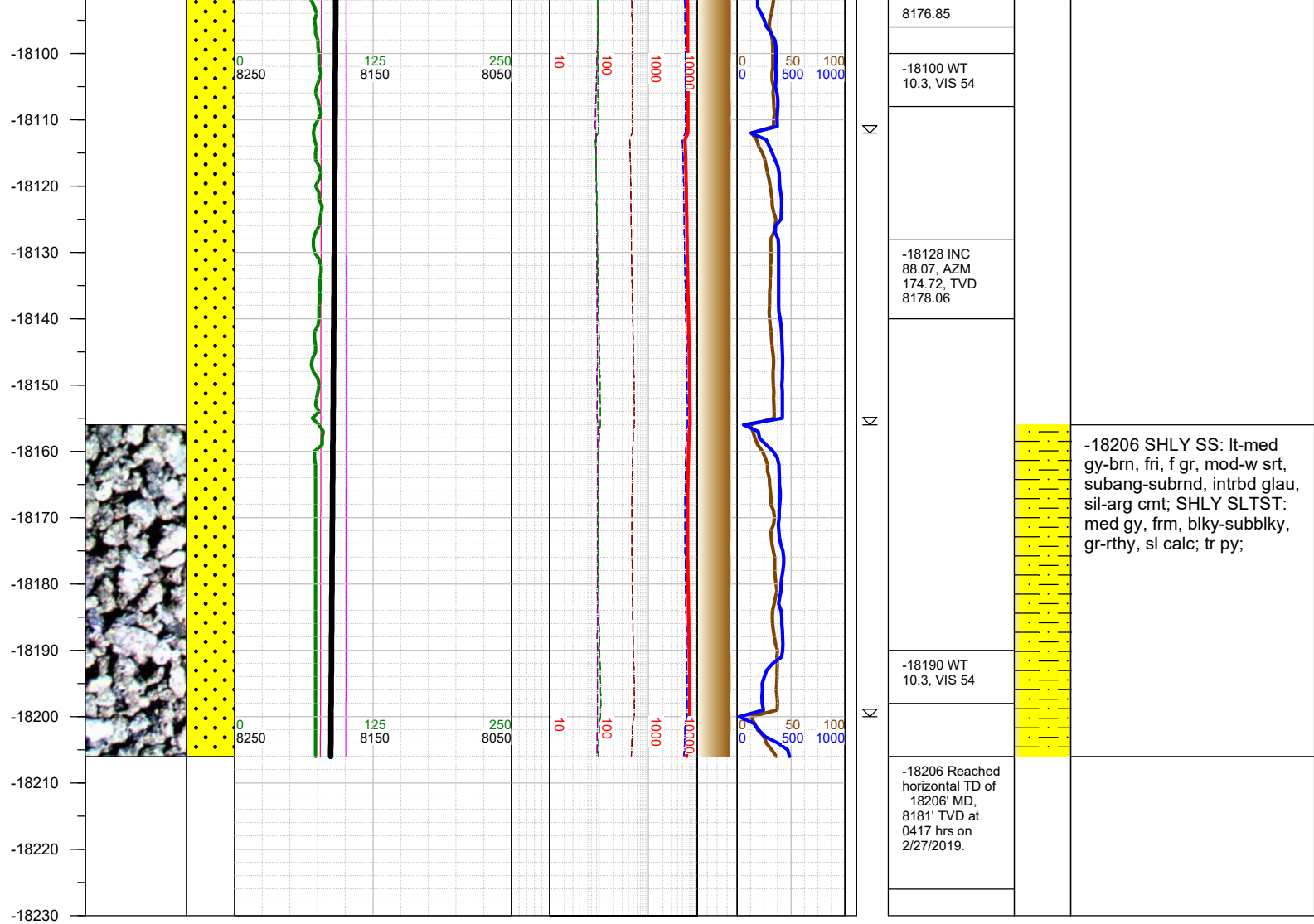
-17994 INC
89.7, AZM
177.45, TVD
8175.66

-18010 WT
10.3, VIS 54

-18084 INC
88.78, AZM
175.91, TVD



-18000 SHLY SS: lt-med
gy-brn, fri, f gr, mod-w srt,
subang-subrnd, intrbd glau,
sil-arg cmt; SHLY SLTST:
med gy, frm, blk-subblky,
gr-rthy, sl calc; tr py;



TOTAL DEPTH = 18206'

Thank you for using Earth Science Agency