

OPERATOR: **Extraction Oil & Gas**
WELL NAME: **Coyote Trails 33W-15-10N**
FIELD NAME: DJ Basin - Wattenberg
DRILLING RIG: Ensign 147
API #: 05-123-48252

LAT/LONG: 40.017977, -105.00741
SURFACE HOLE: SWSE S28-T1N-R68W, 1149' FSL, 2337' FEL
BOTTOM HOLE: S32-T1N-R68W, 2509' FSL, 460' FWL

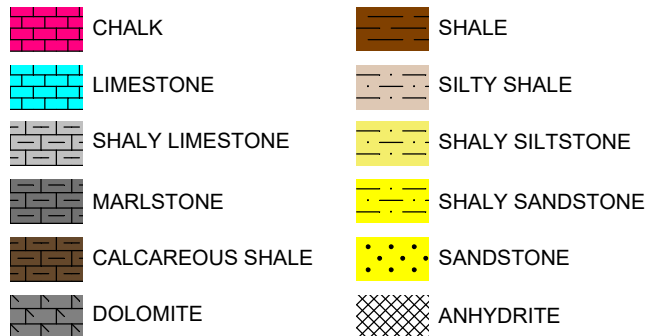


Earth Science Agency, LLC

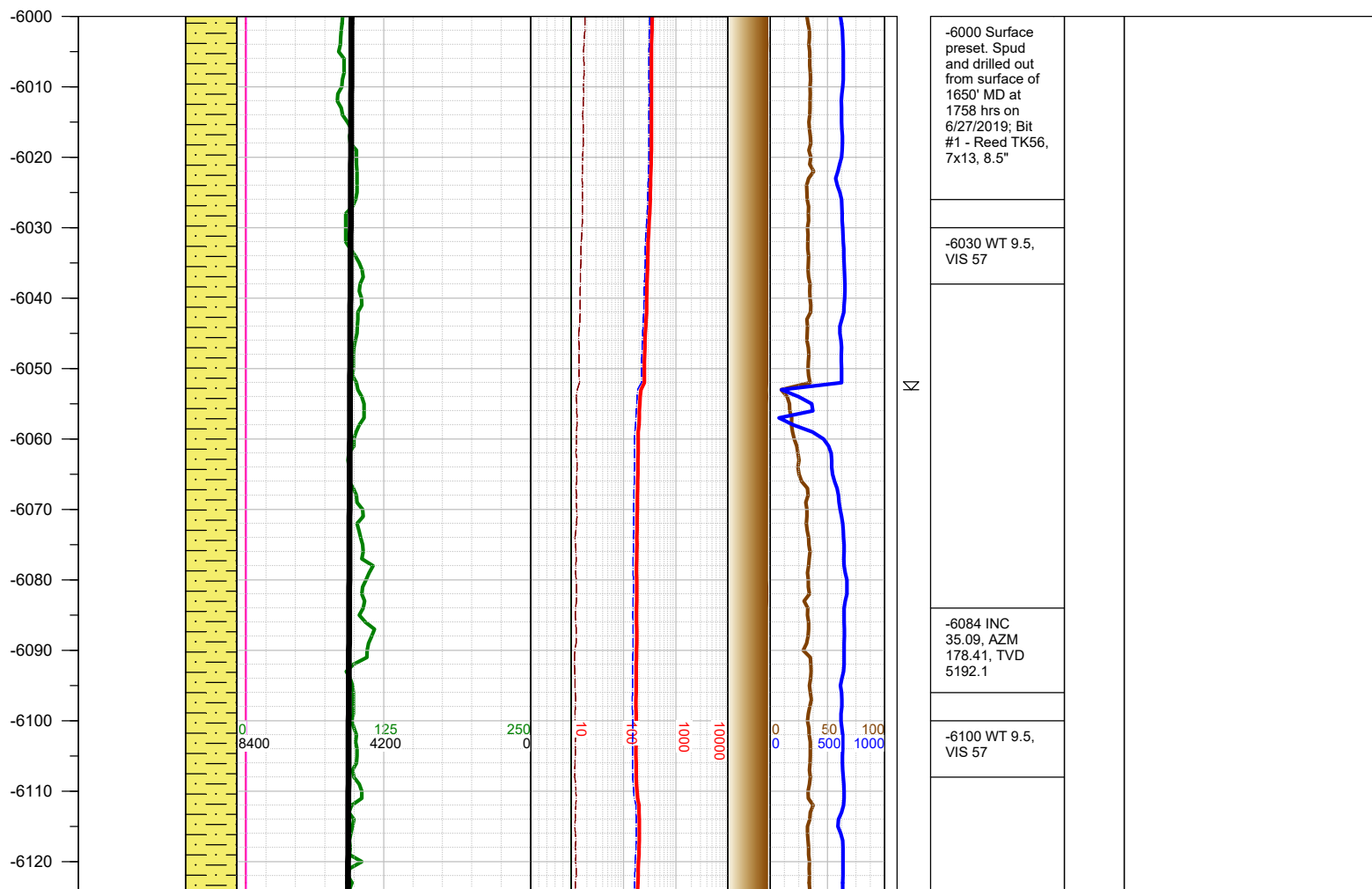
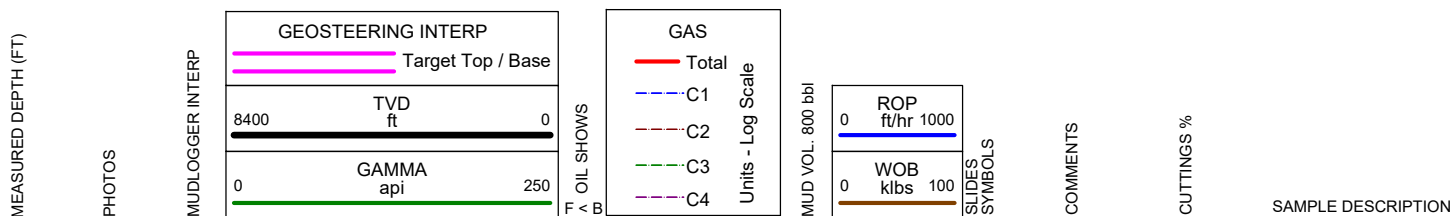
COUNTY: Weld
STATE: Colorado
GROUND ELEVATION: 5274'
KELLY BUSHING: 5302'
DRILLING FLUID: OBM
TVD VS. MD: 8165' / 16807'
SPUD DATE: June 27, 2019
TD DATE: July 1, 2019

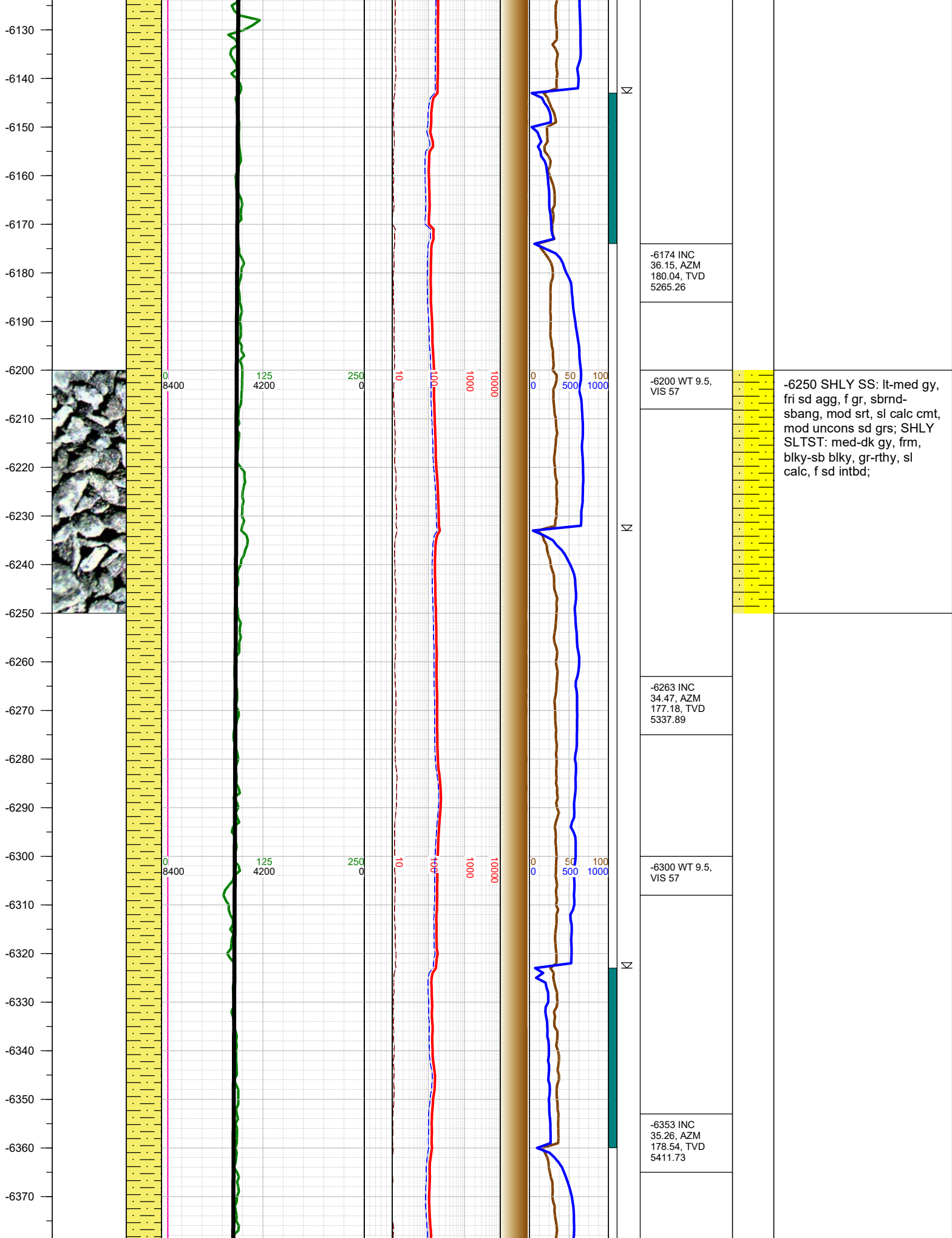
DEPTHS LOGGED: 6000' - 16807'
DATES LOGGED: June 28, 2019 - July 1, 2019
GEOLOGISTS: Ross Apodaca, Nick Damon
SCALE: 5" = 100'

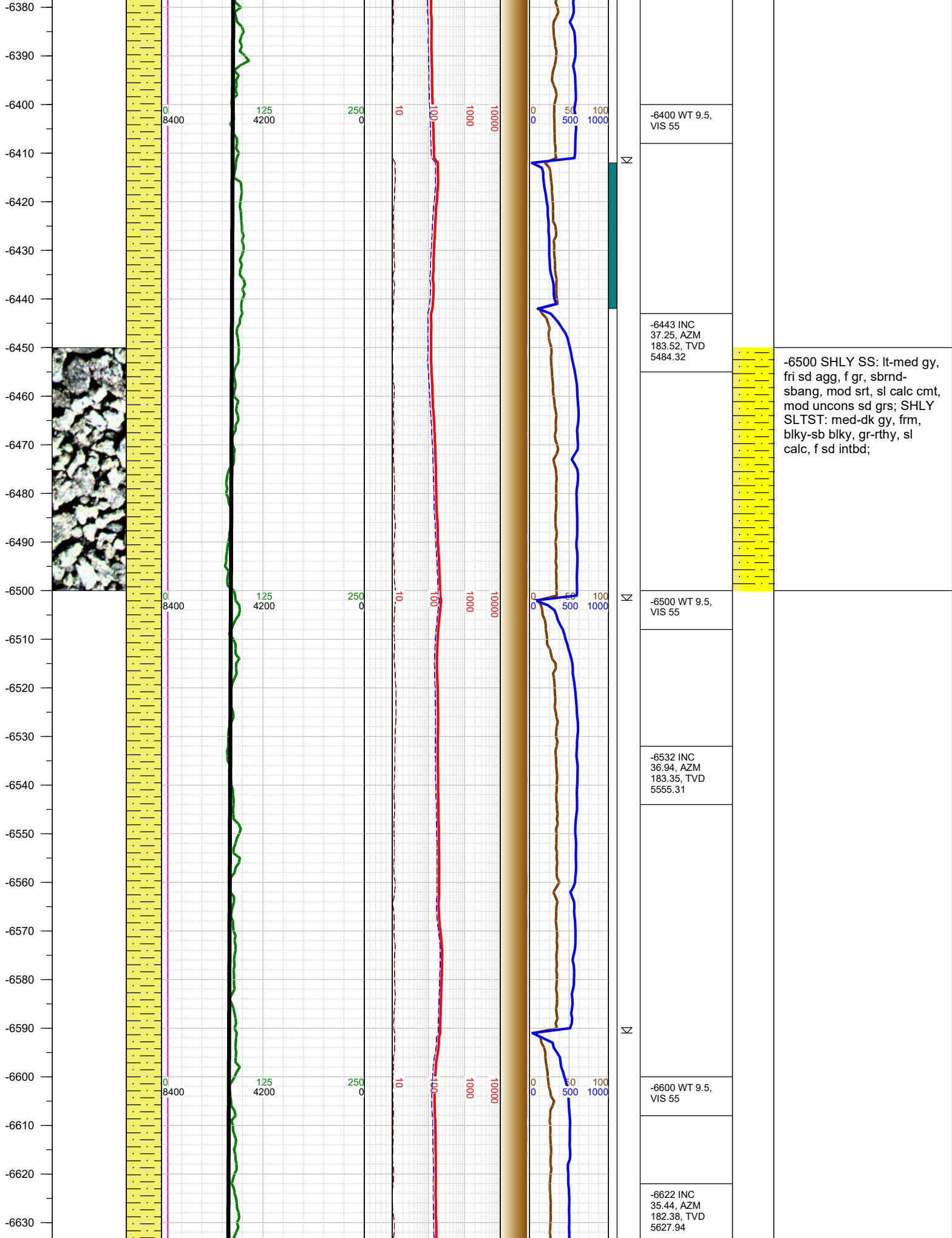
LEGEND

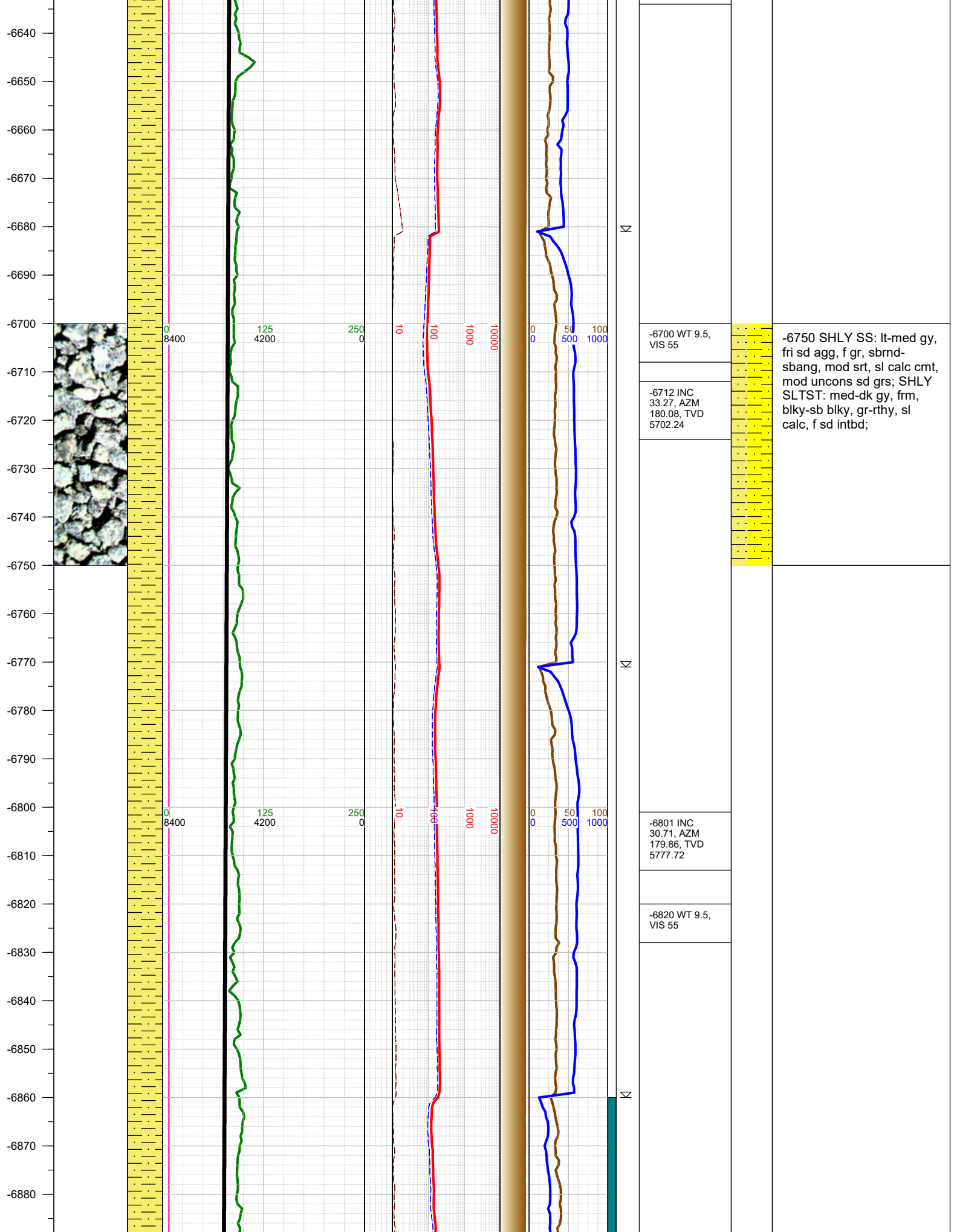


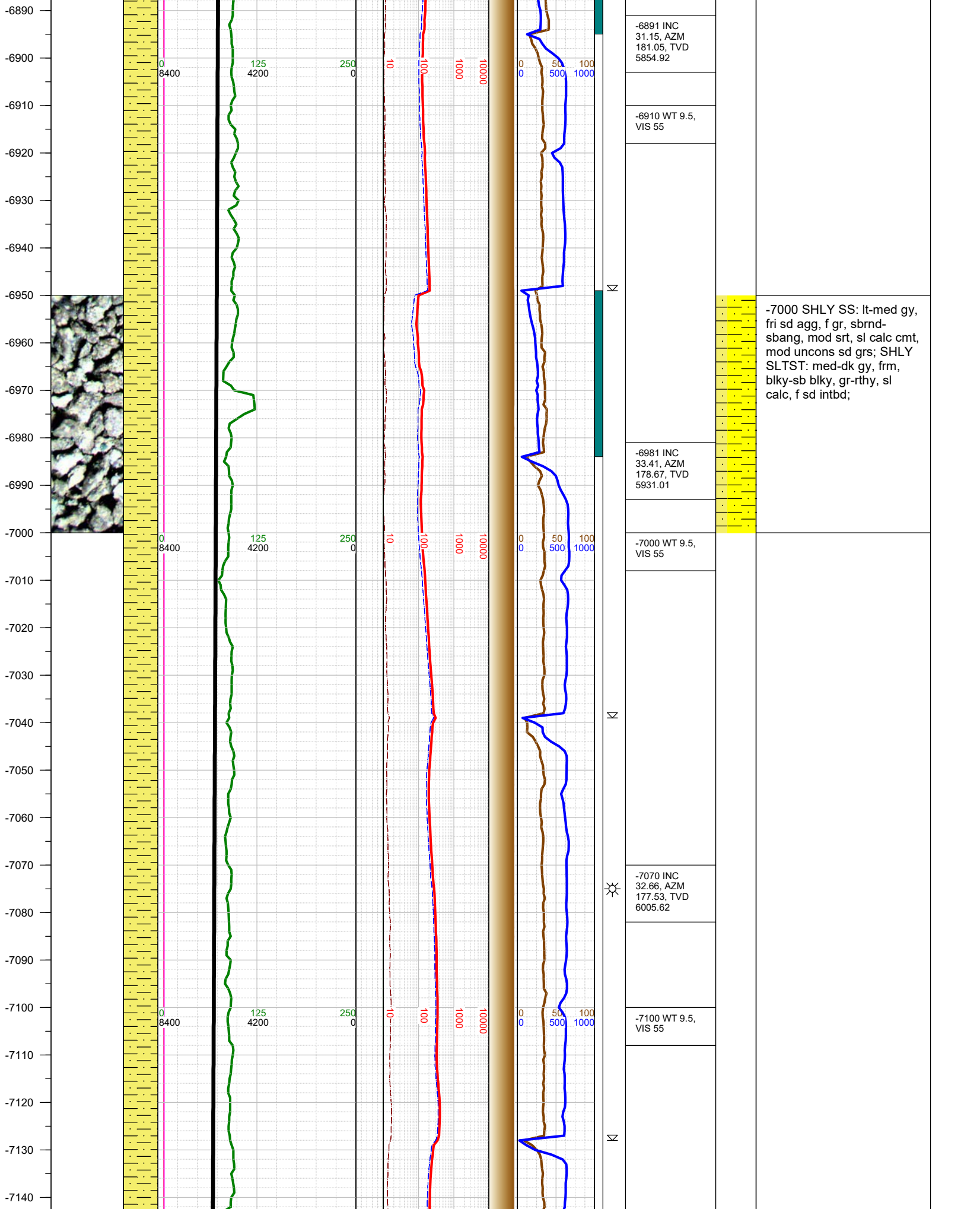
FORMATION CONNECTION MIDNIGHT NEW BIT GAS SHOW FAULT

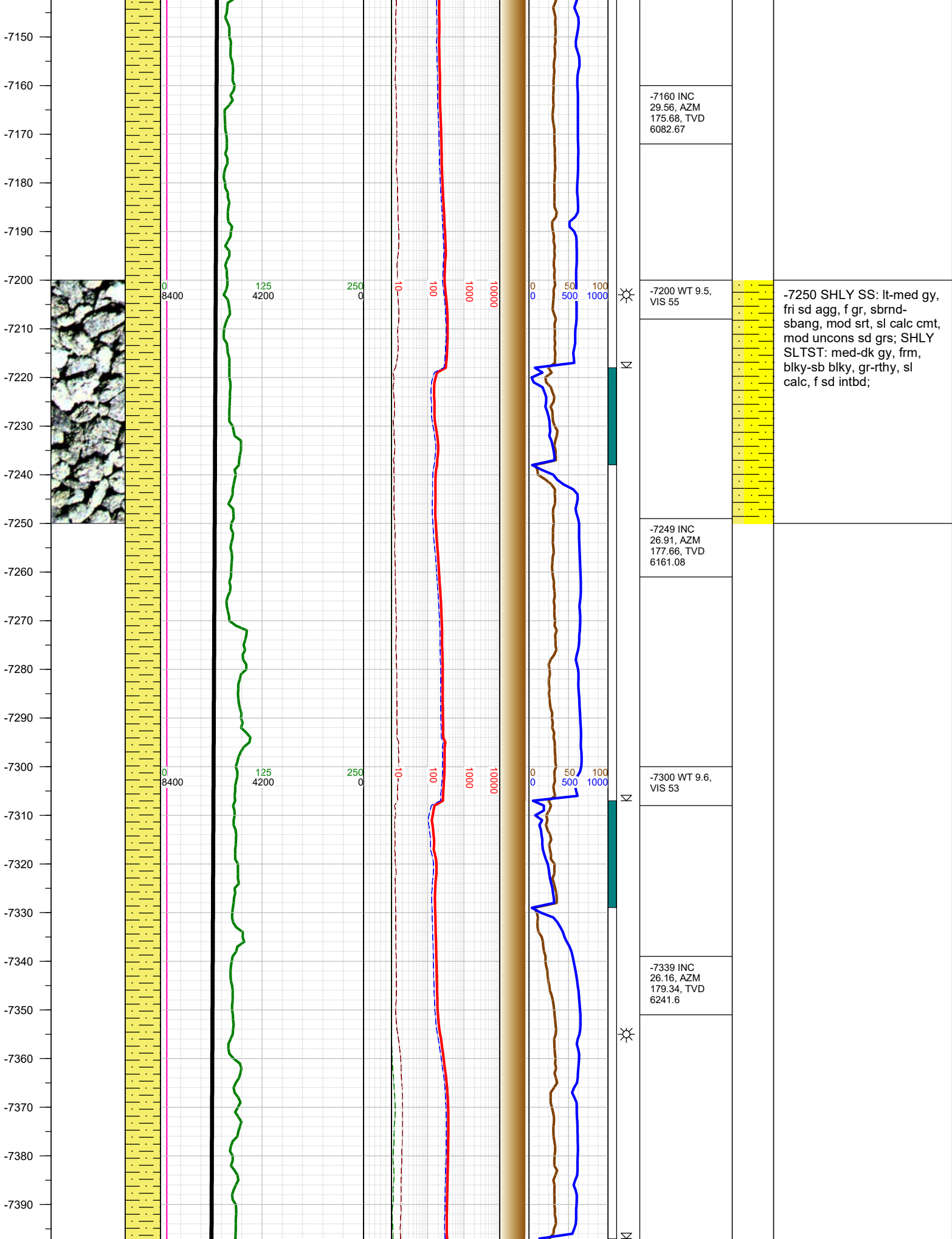


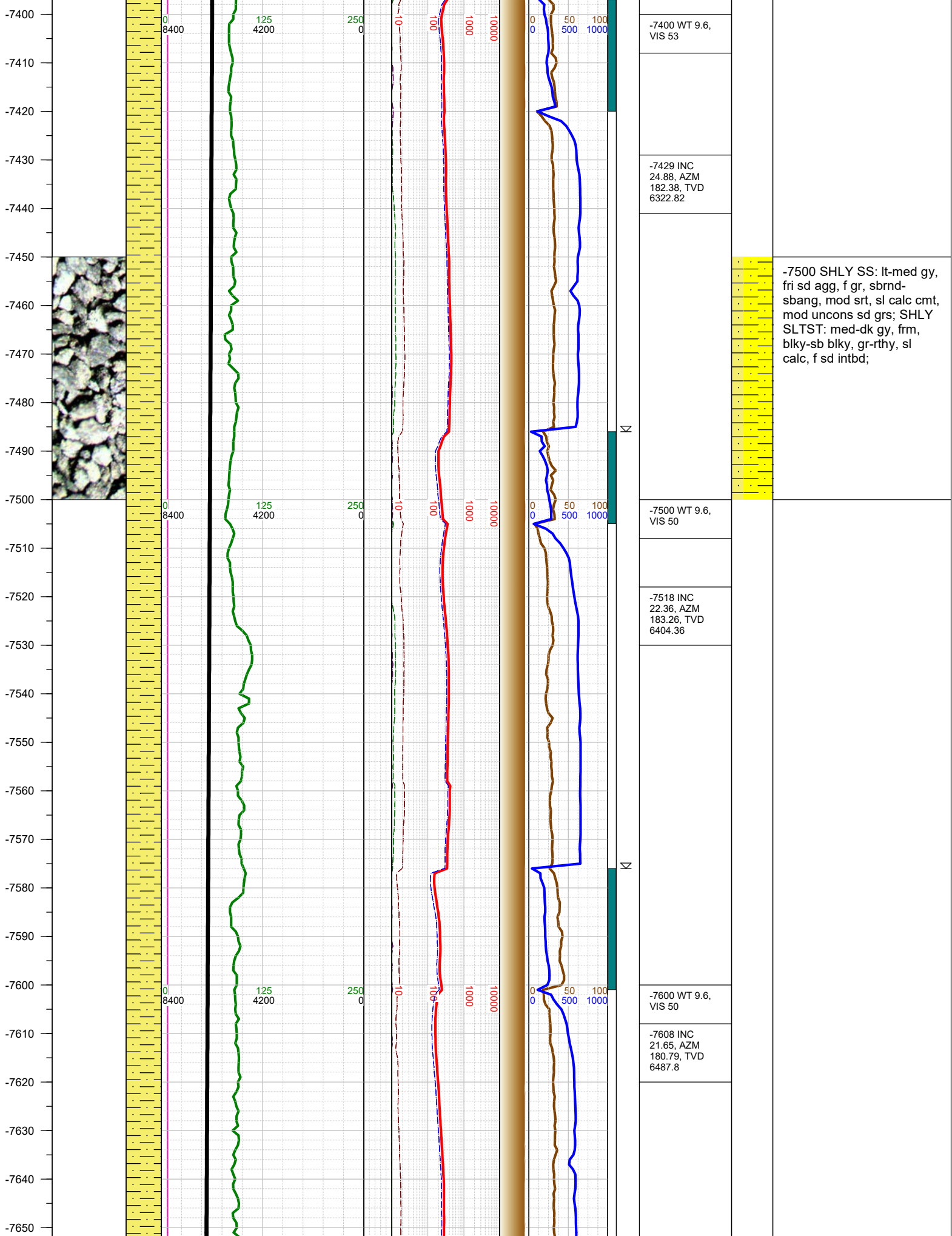


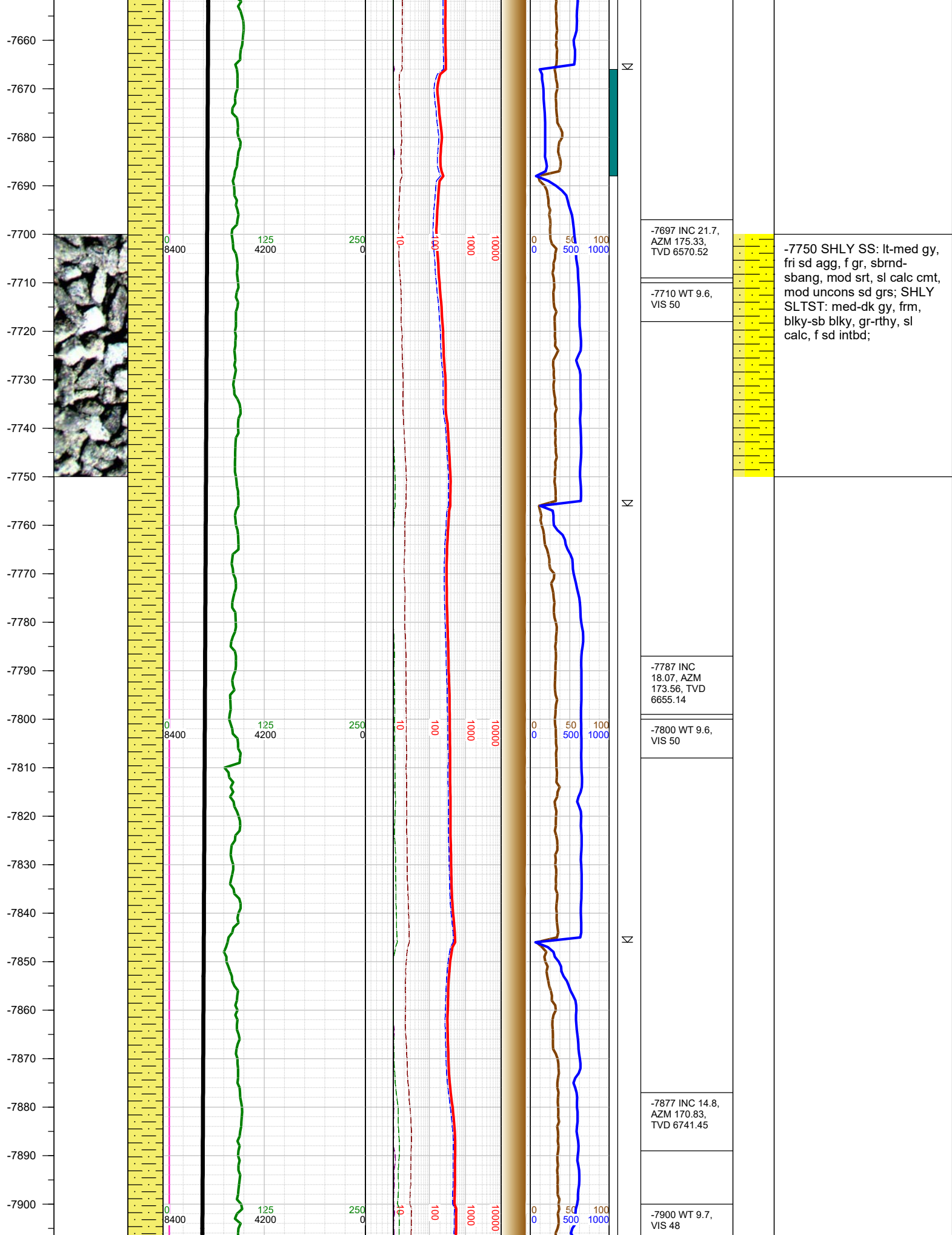


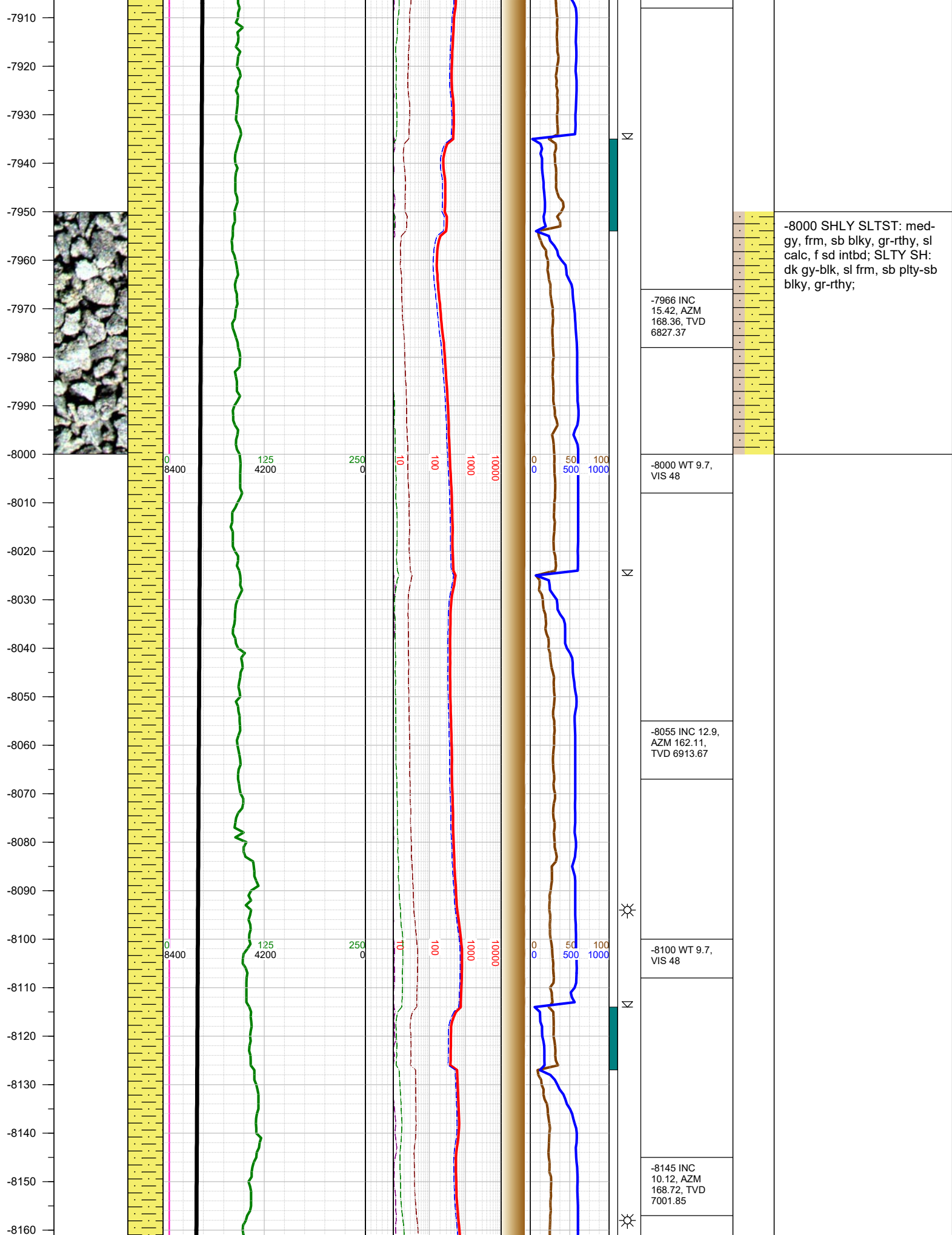


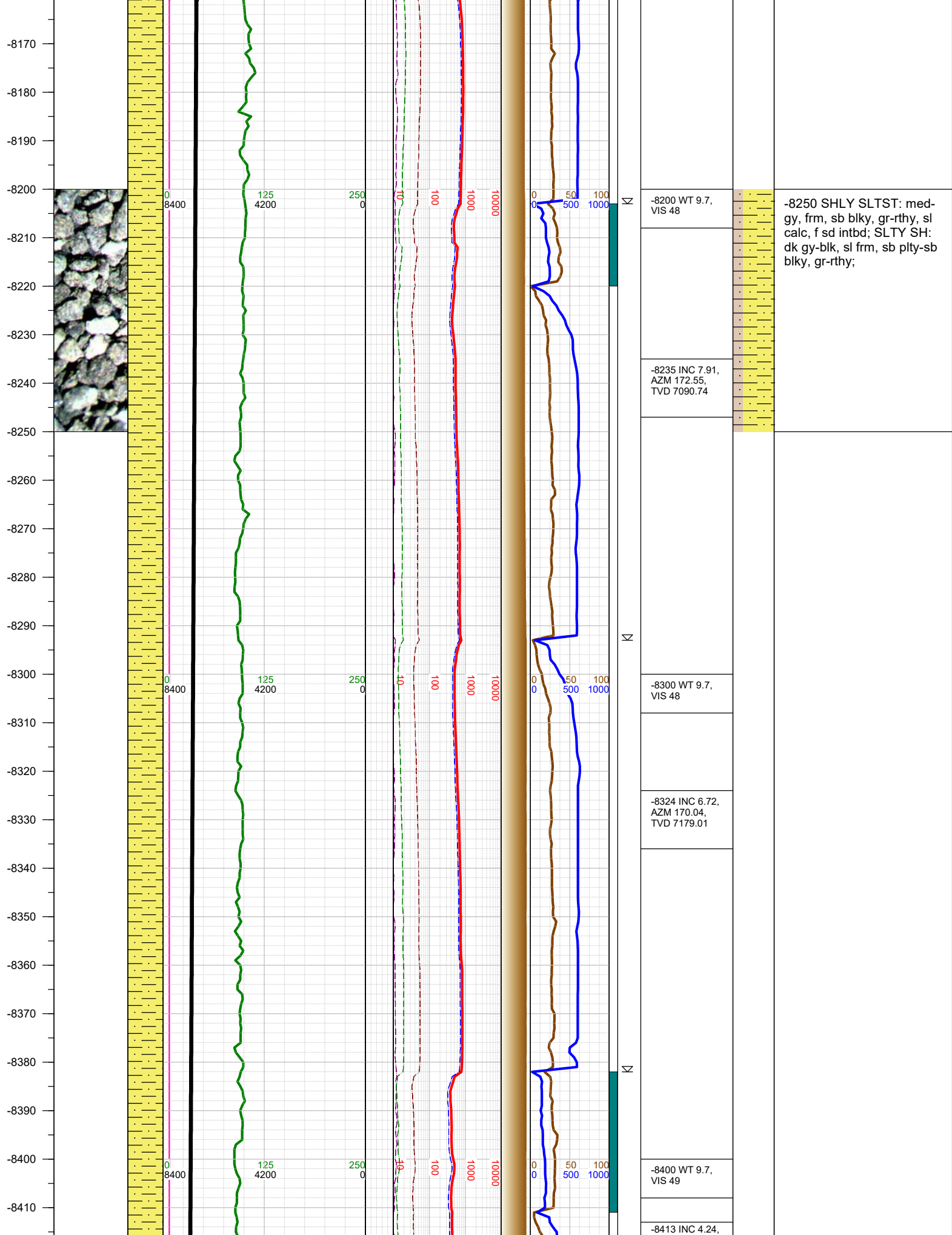


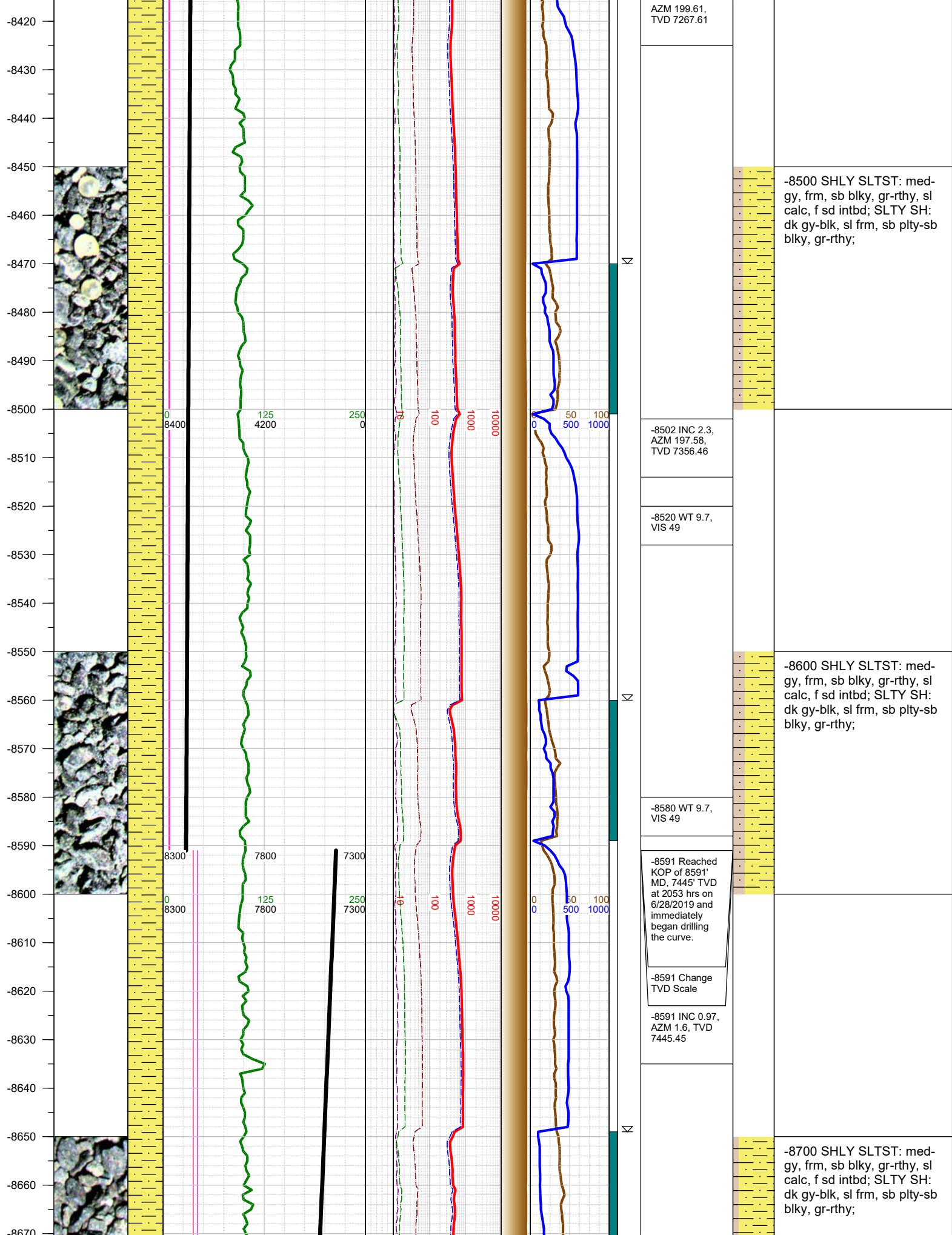


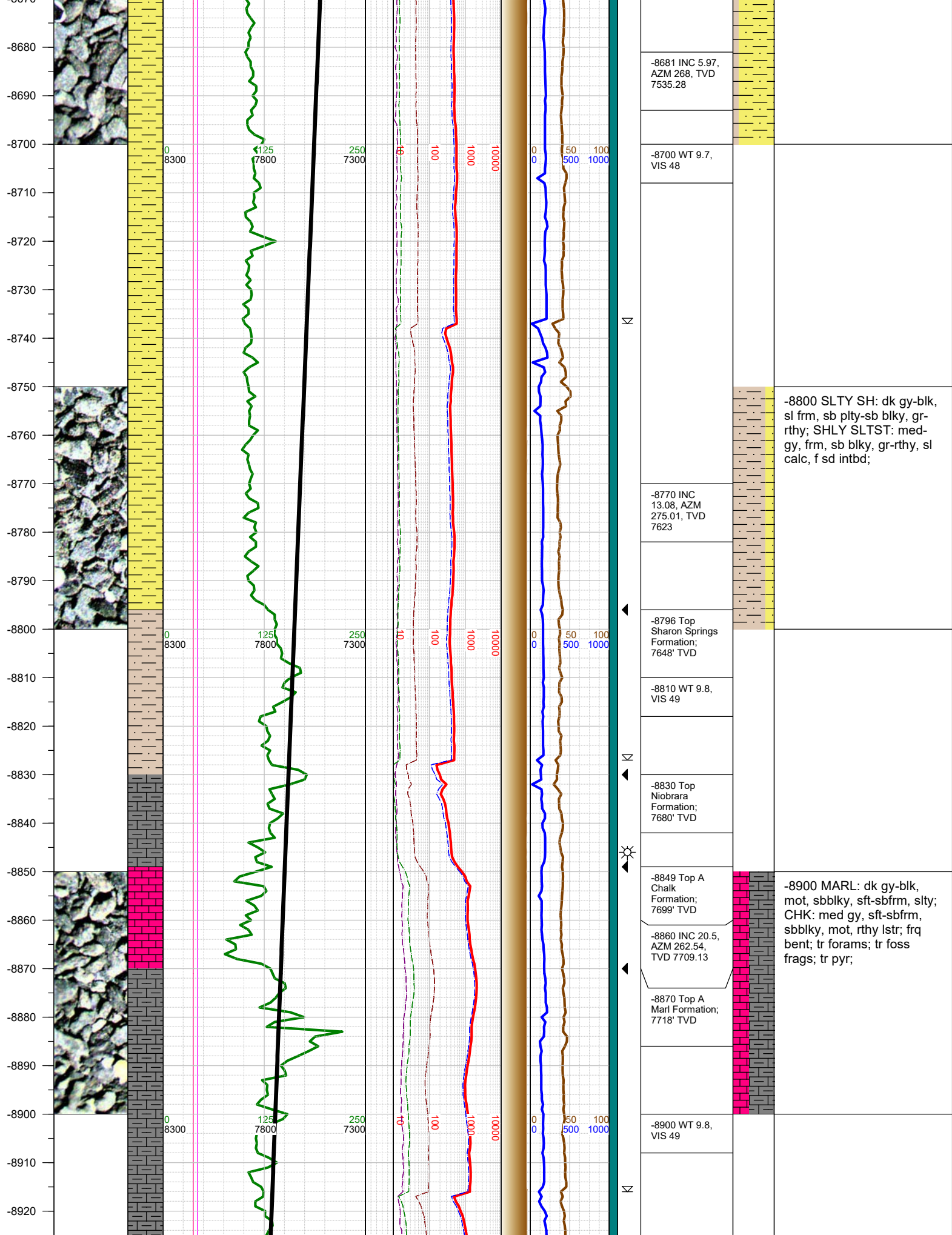


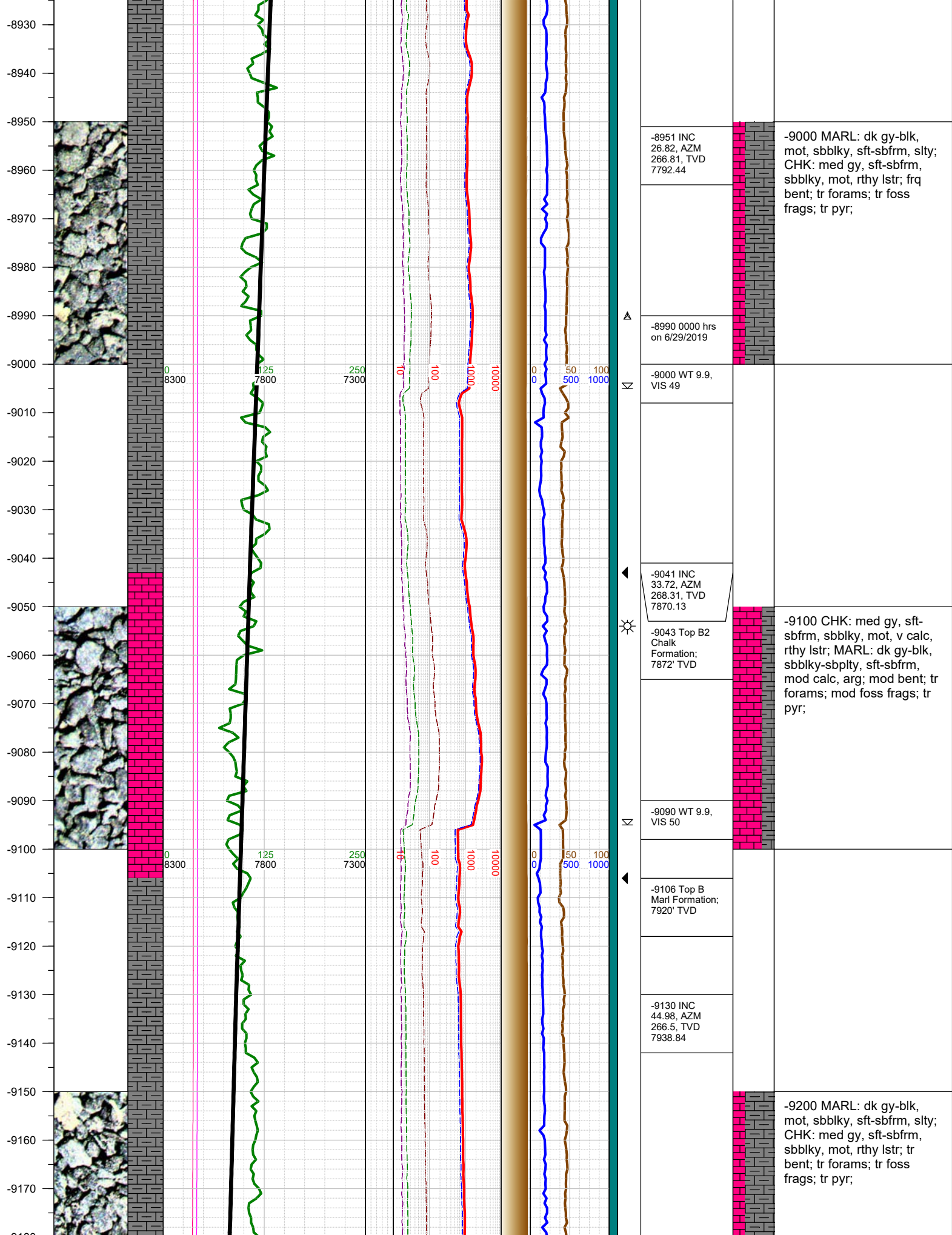


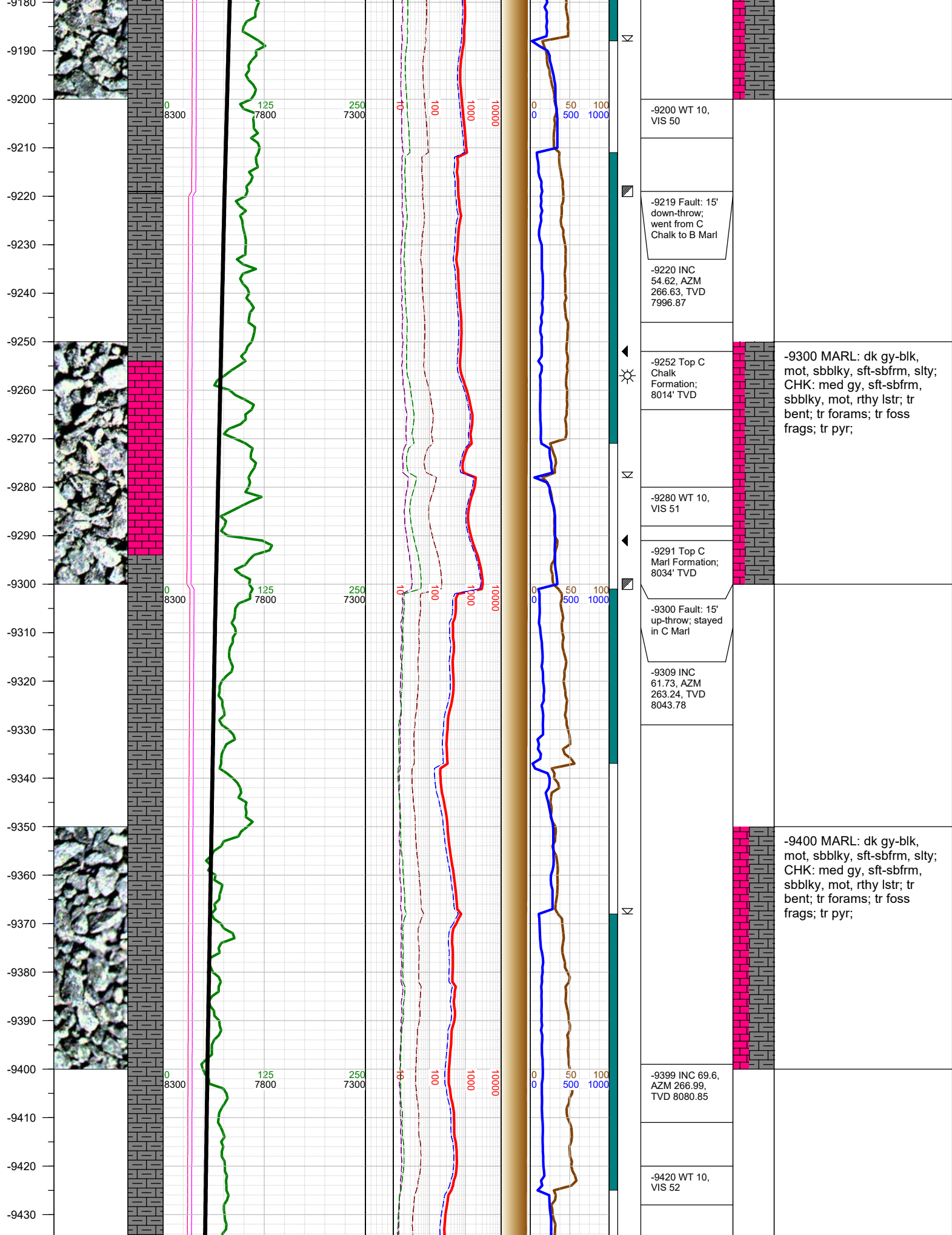


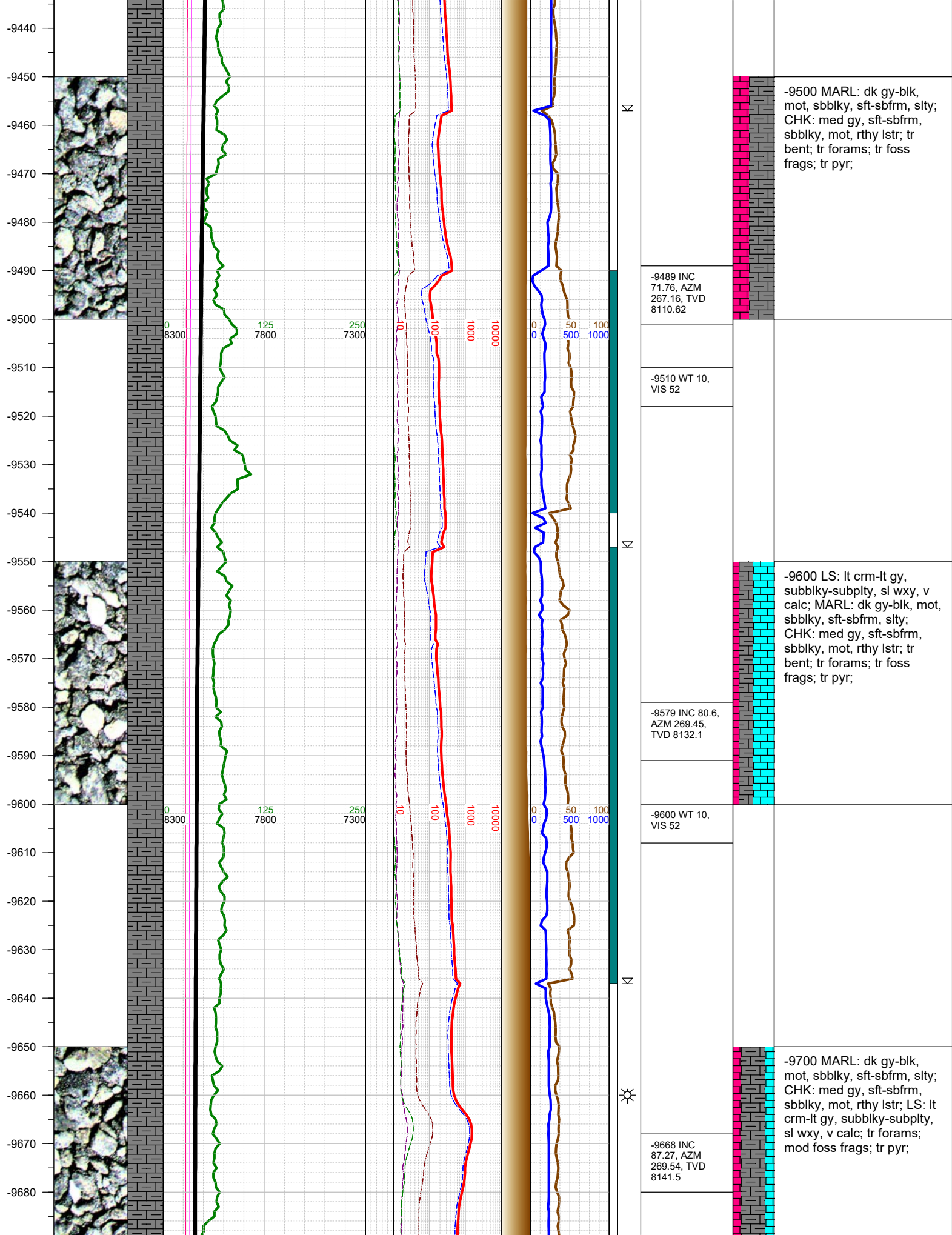


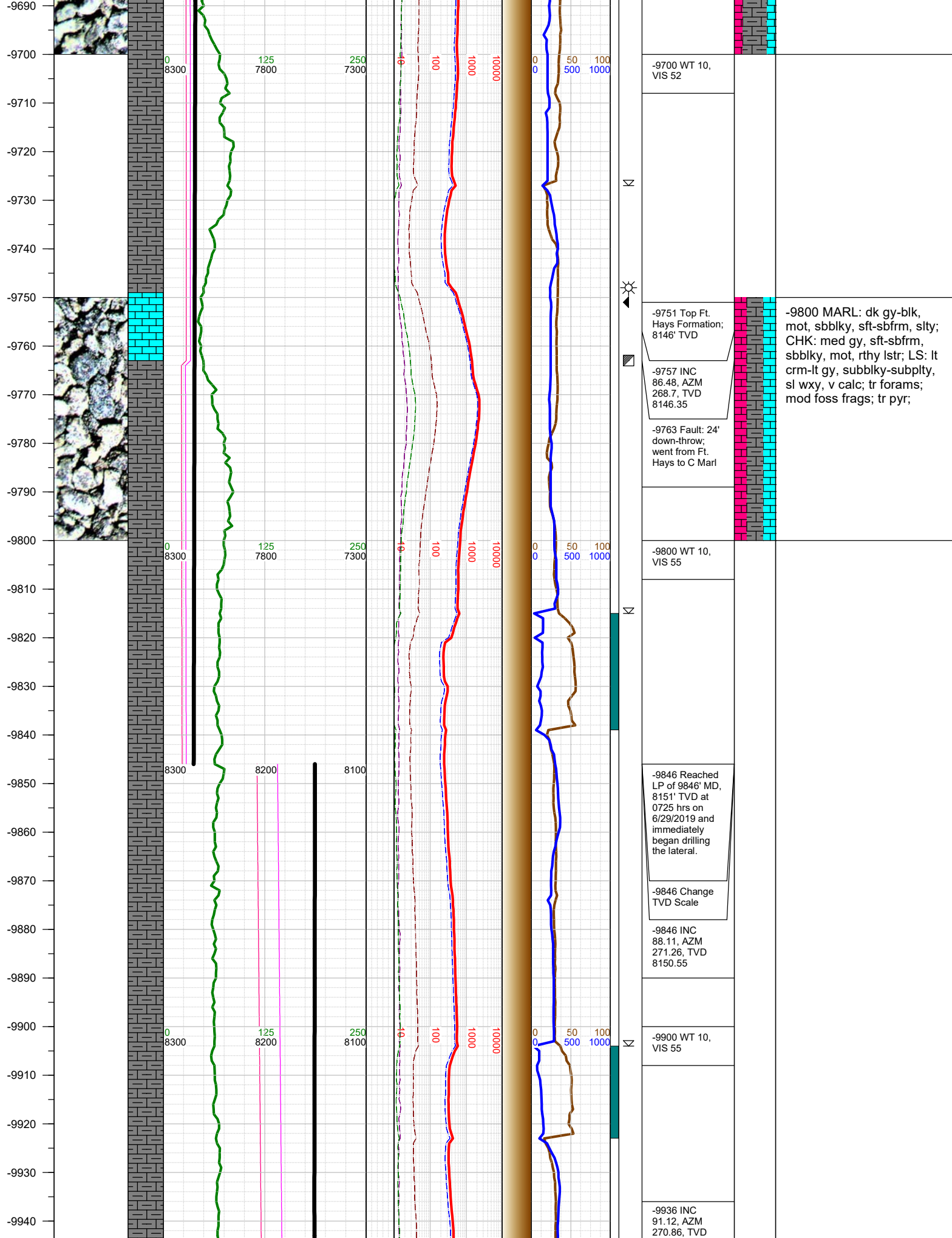


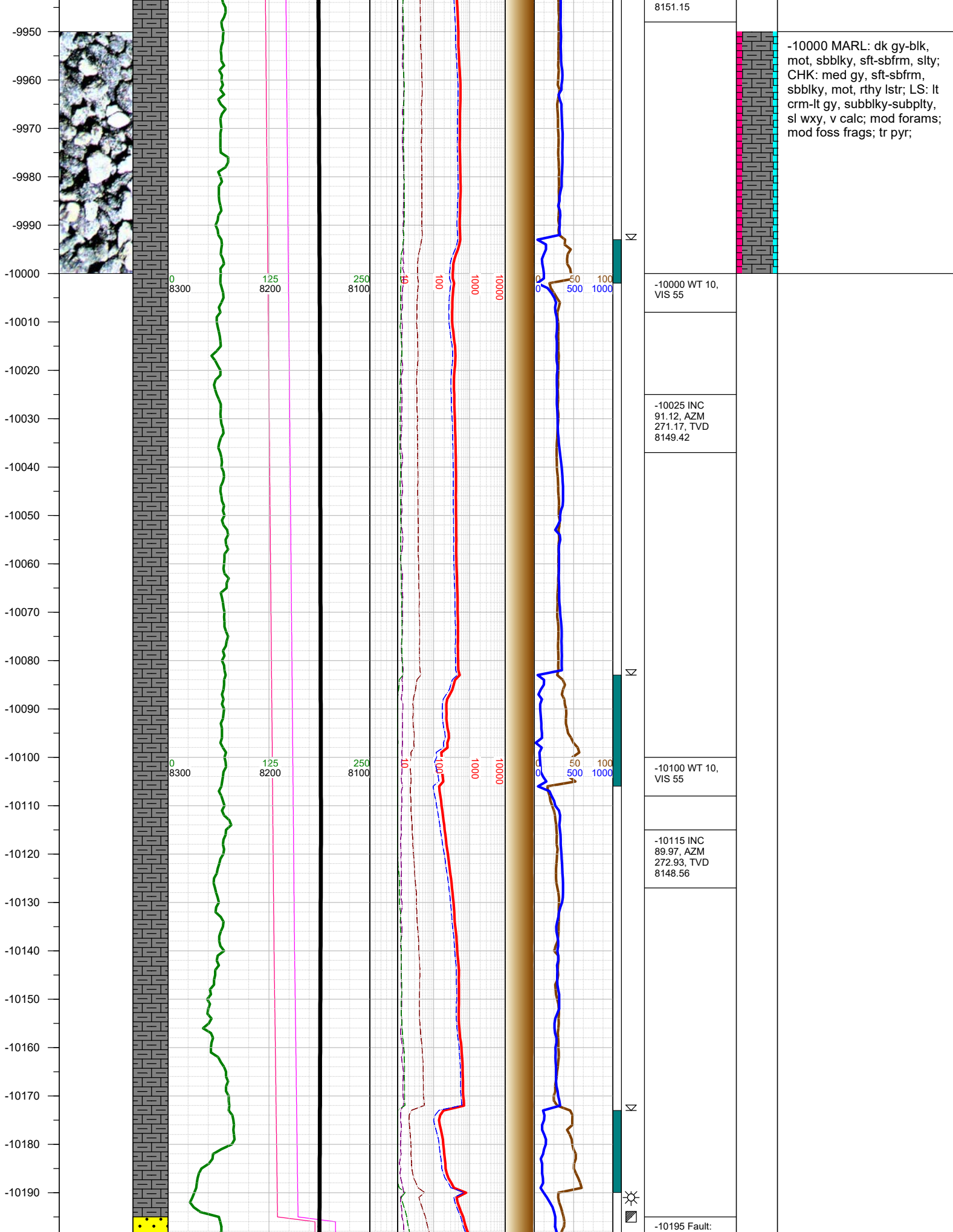












-10000 MARL: dk gy-blk, mot, sbblky, sft-sbfrm, slty; CHK: med gy, sft-sbfrm, sbblky, mot, rthy lstr; LS: lt crm-lt gy, subblky-subply, sl wxy, v calc; mod forams; mod foss frags; tr pyr;

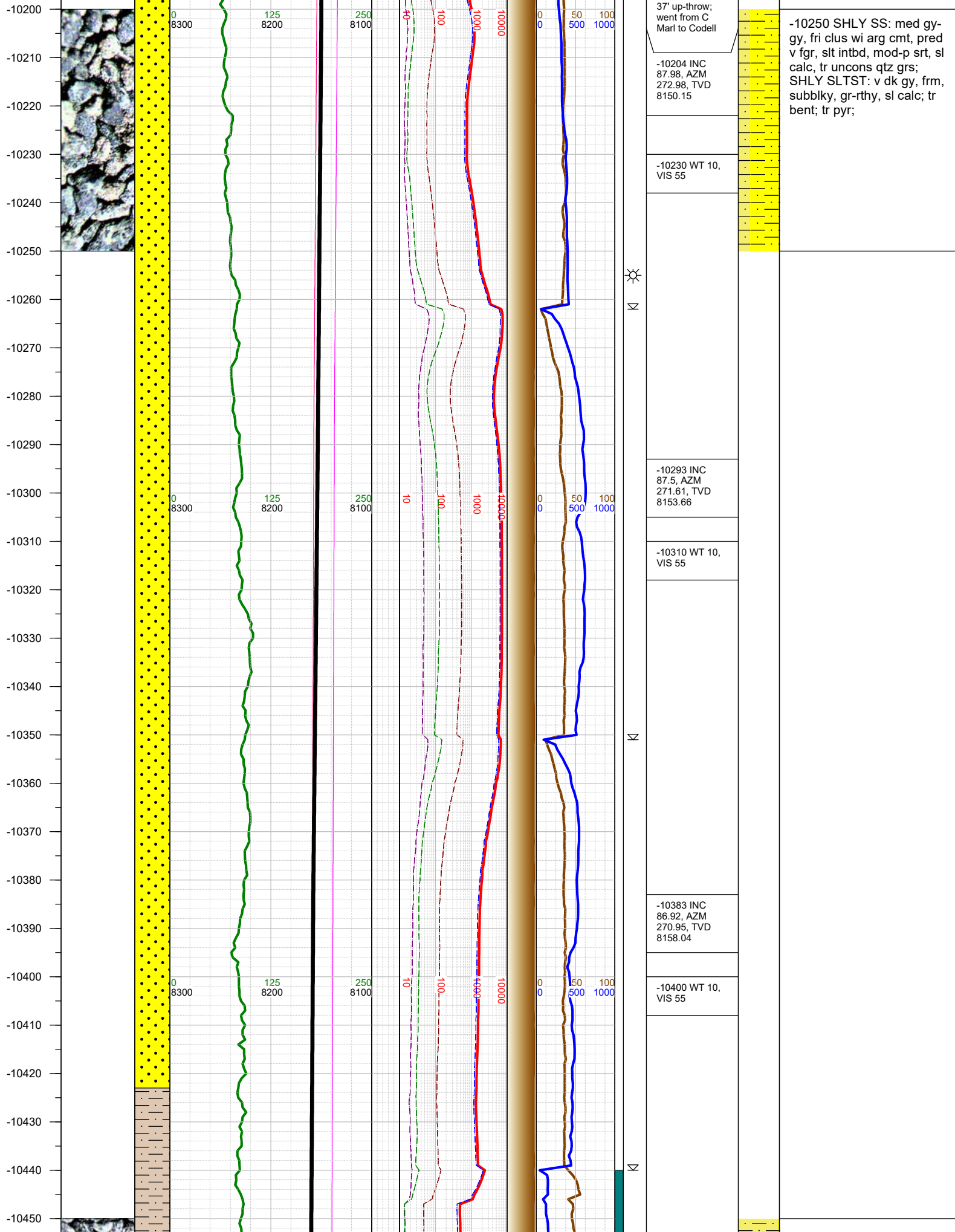
-10000 WT 10, VIS 55

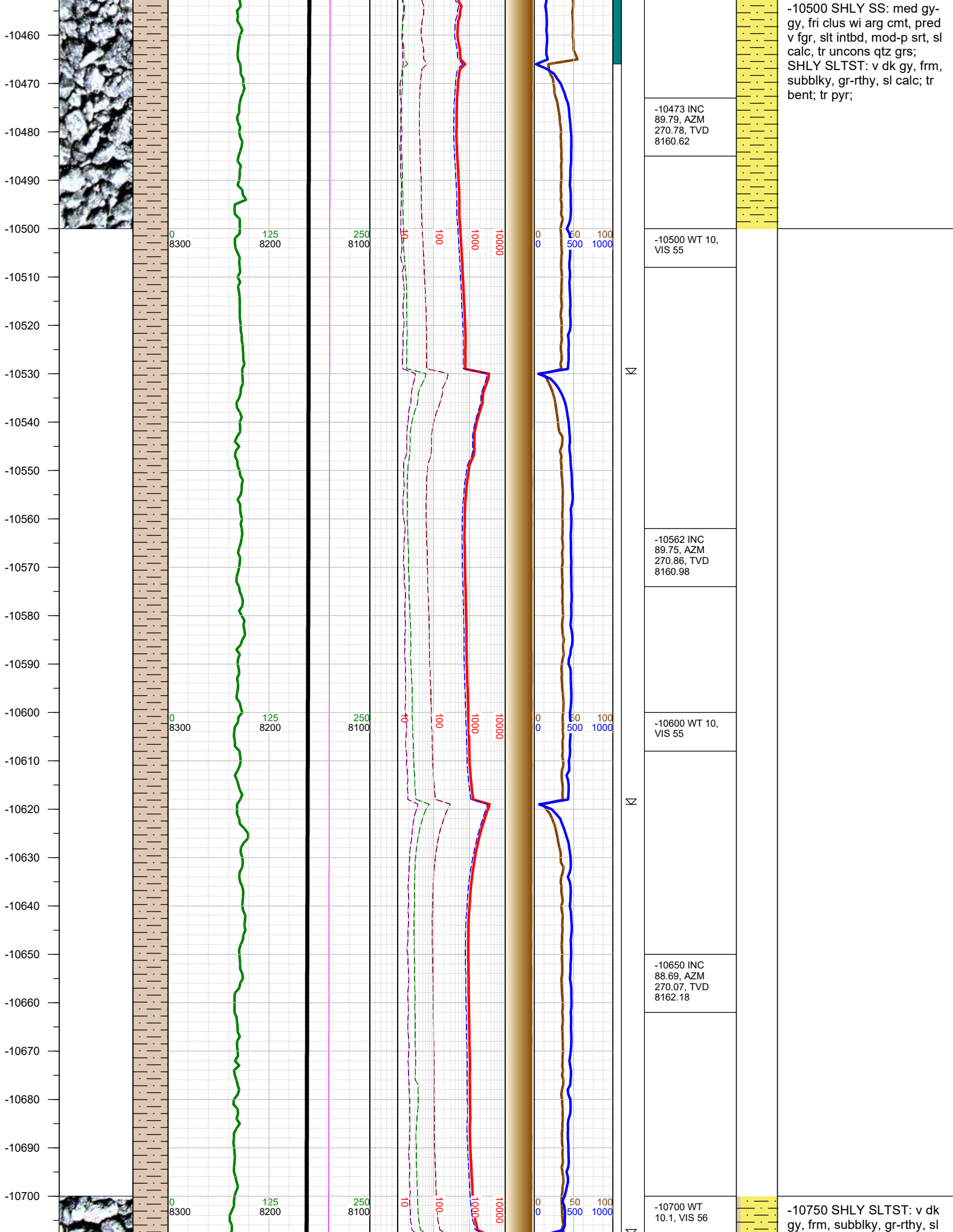
-10025 INC 91.12, AZM 271.17, TVD 8149.42

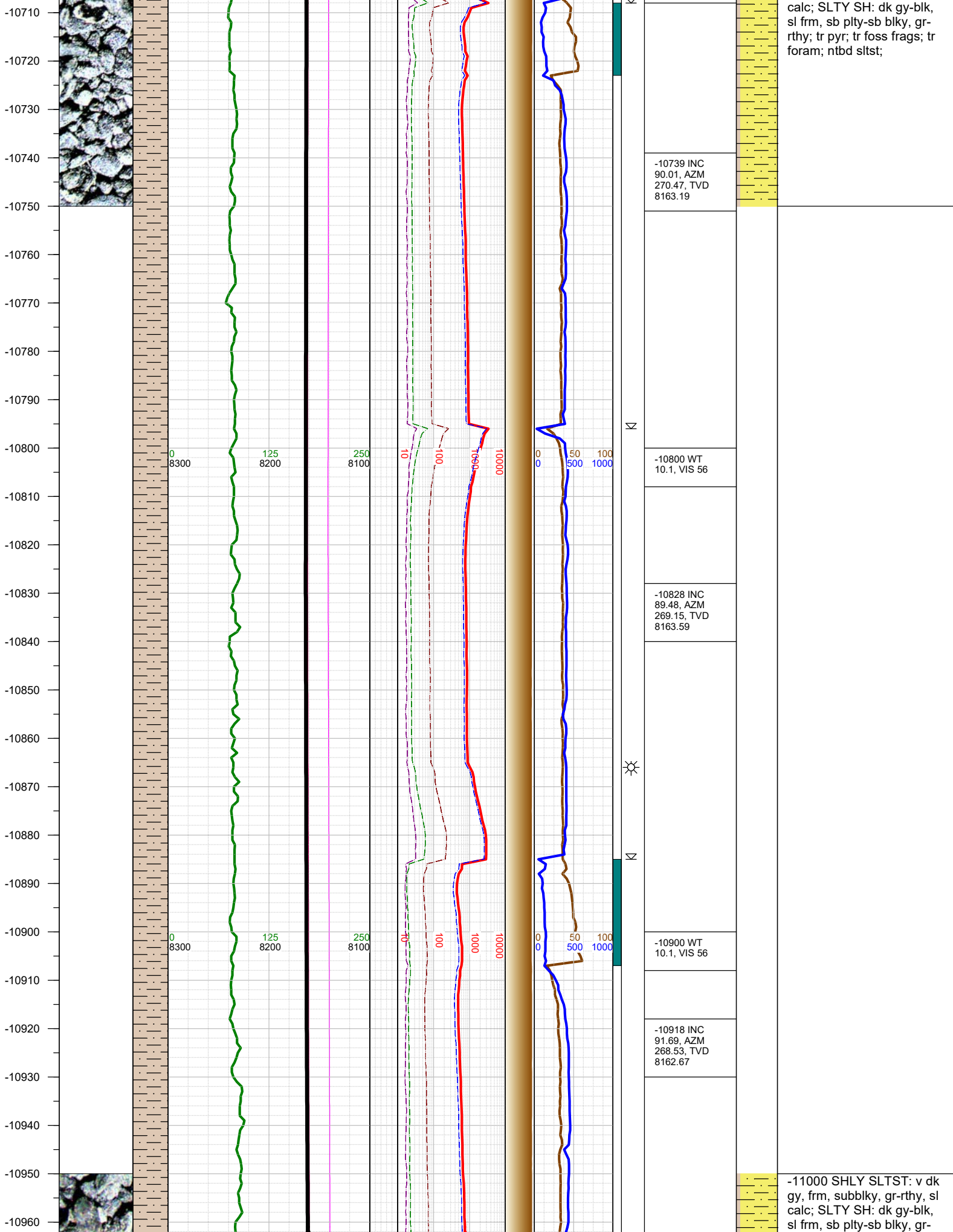
-10100 WT 10, VIS 55

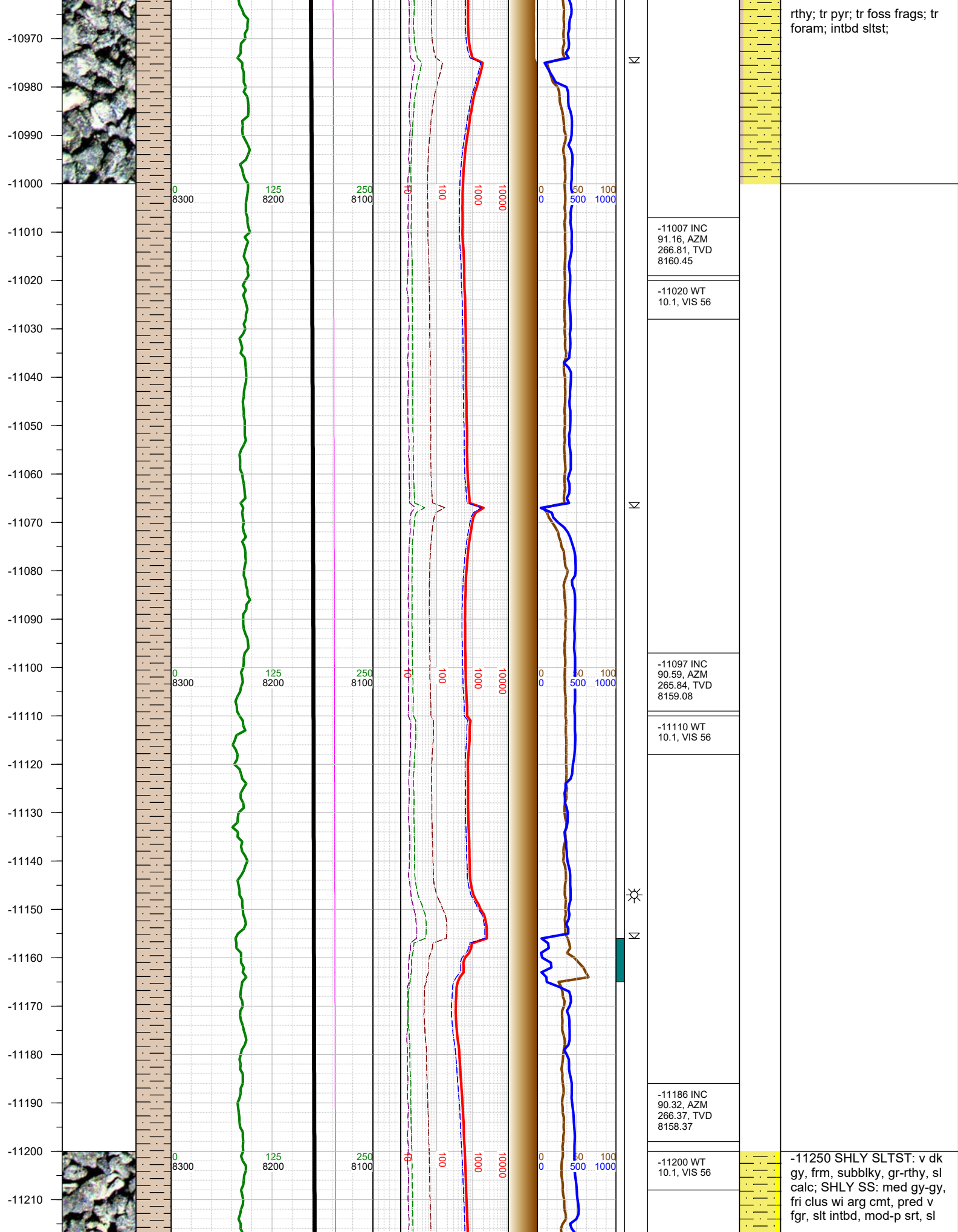
-10115 INC 89.97, AZM 272.93, TVD 8148.56

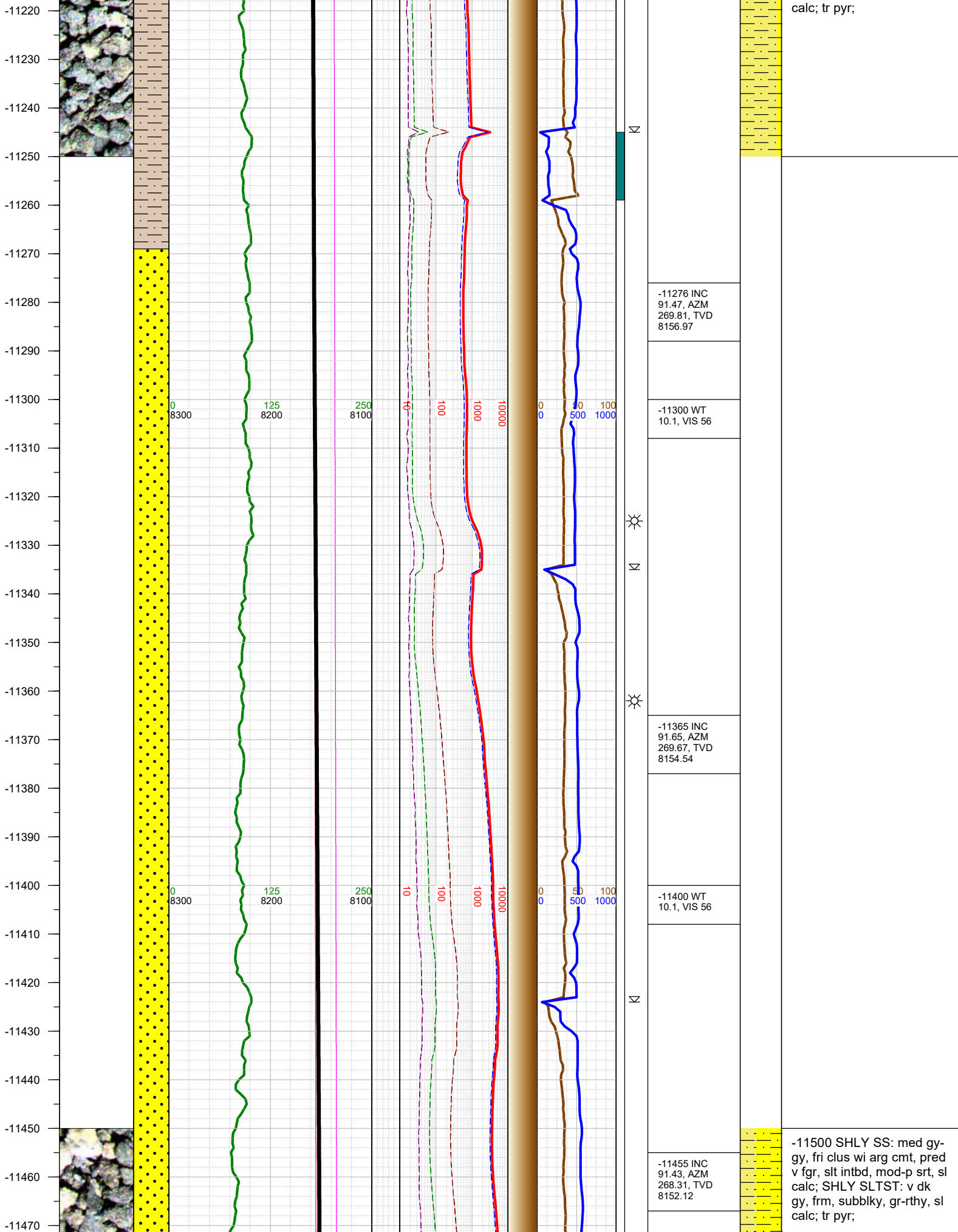
-10195 Fault:



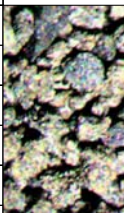
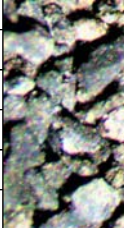








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8200

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0 50 100
0 500 1000

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-11475 Fault: 6'
down-throw;
stayed in Codell

-11500 WT
10.1, VIS 56

-11544 INC
91.47, AZM
267.65, TVD
8149.87

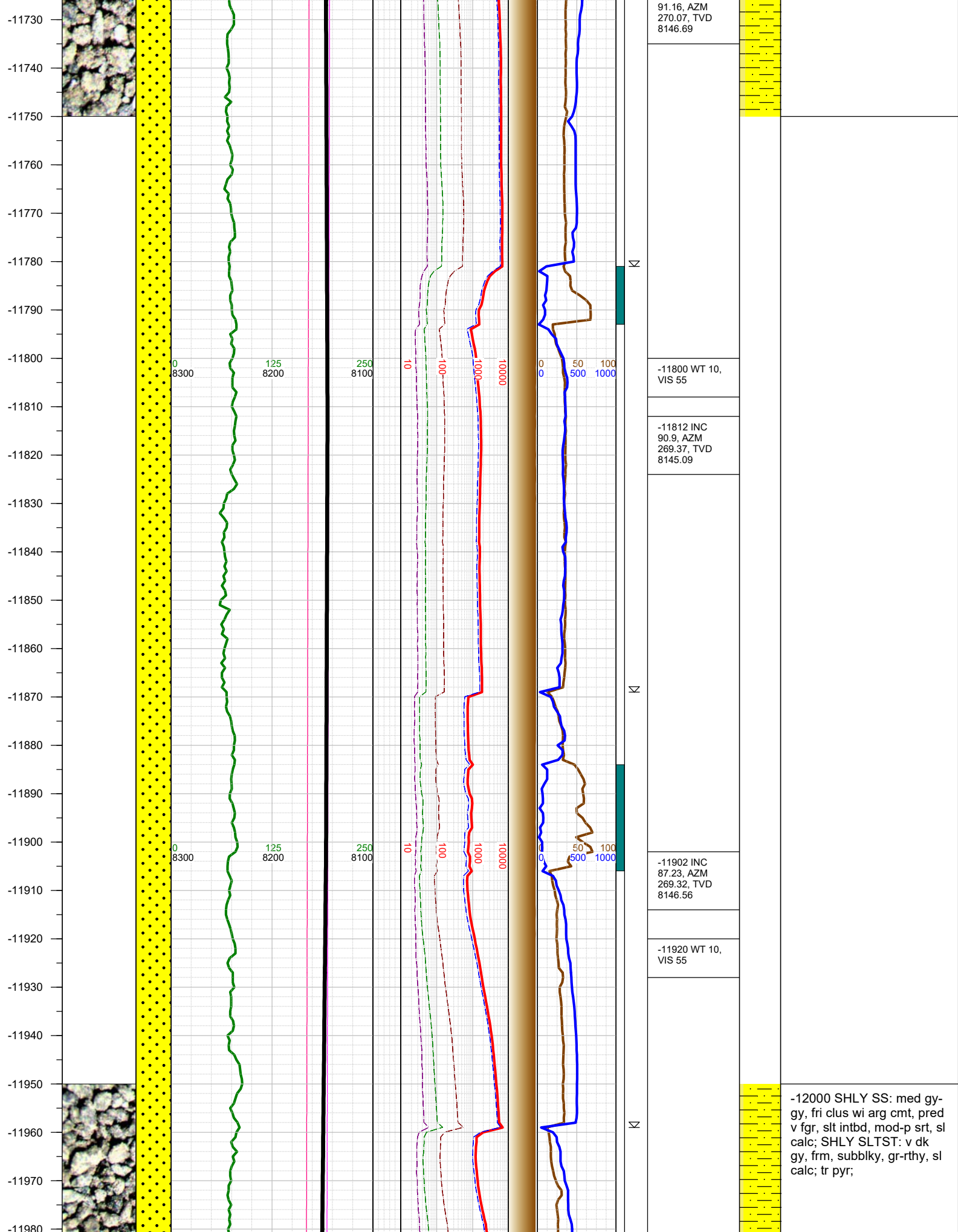
-11600 WT 10,
VIS 55

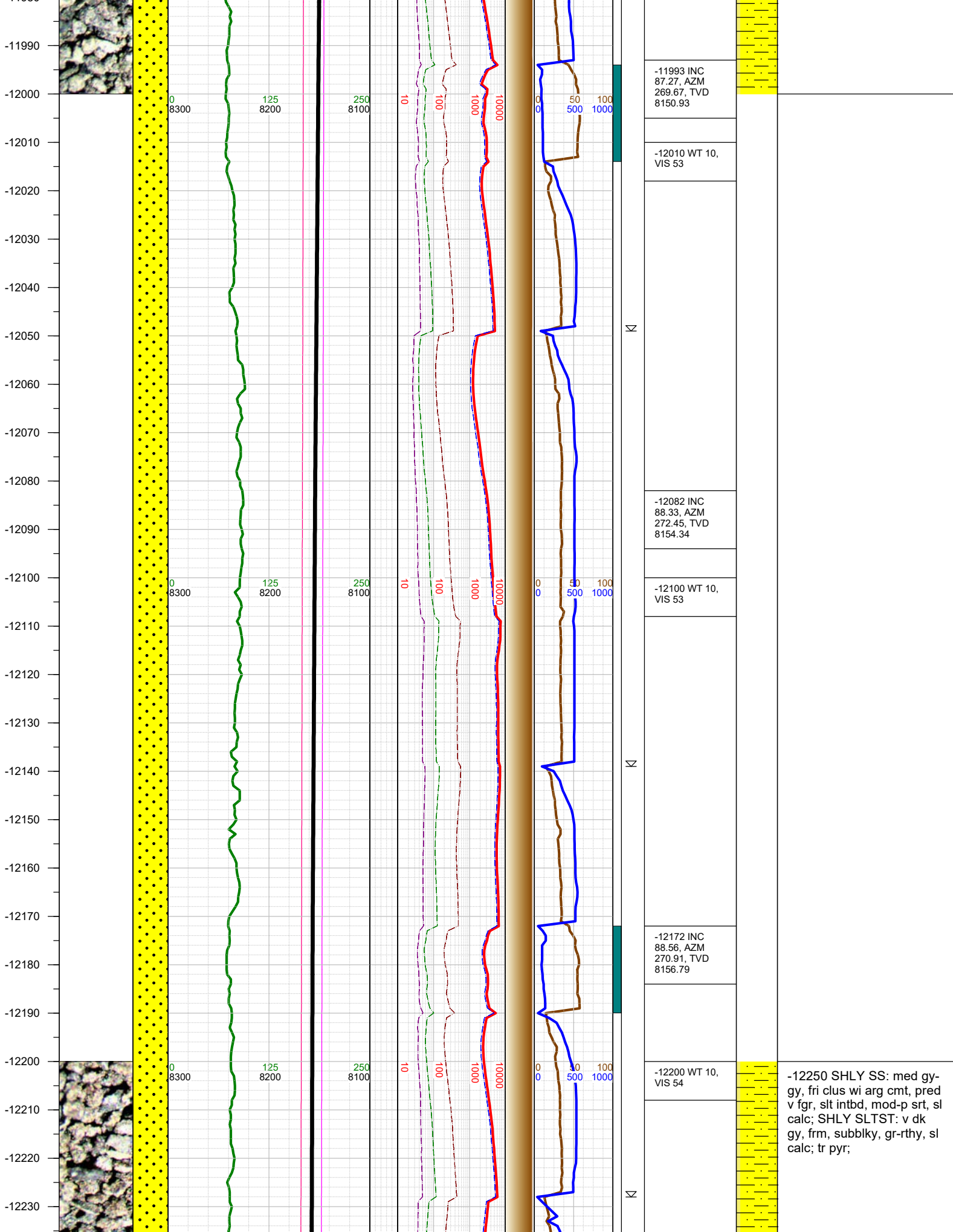
-11634 INC
90.72, AZM
268.62, TVD
8148.15

-11700 WT 10,
VIS 55

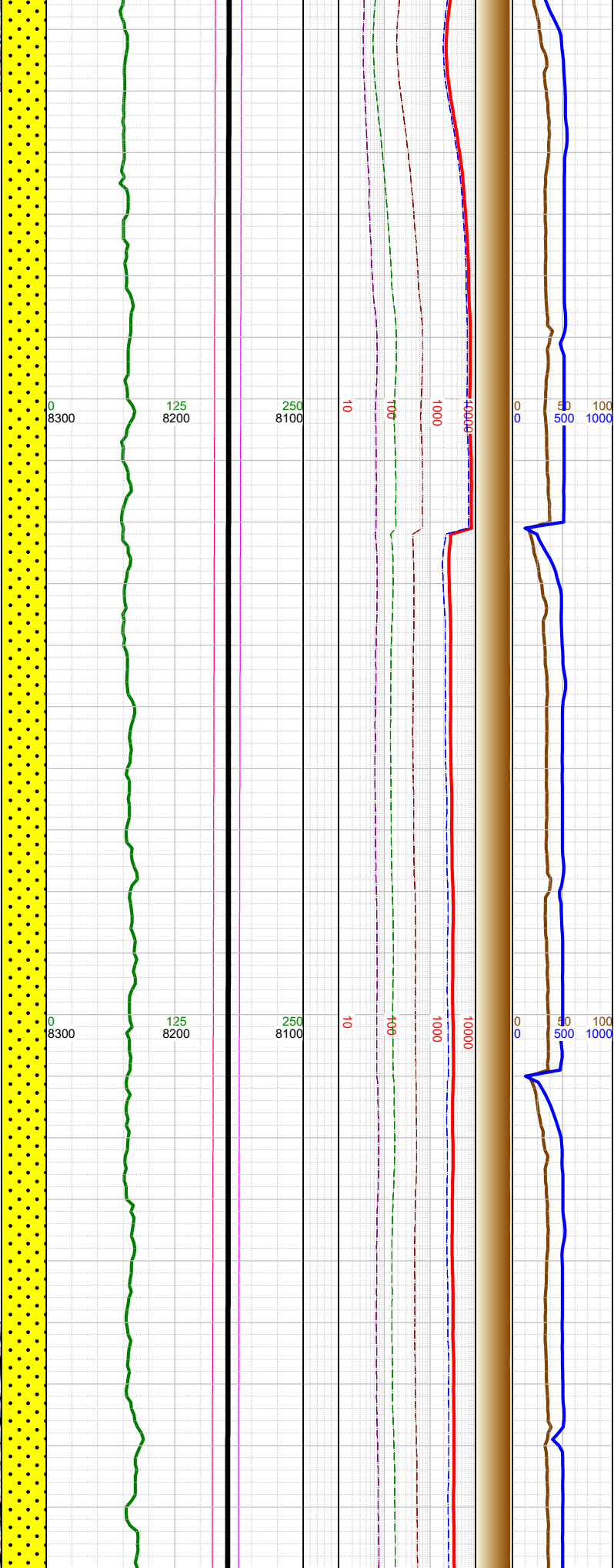
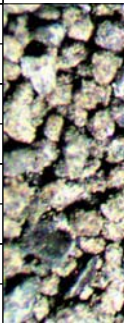
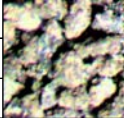
-11723 INC

-11750 SHLY SS: med gy-
gy, fri clus wi arg cmt, pred
v fgr, slt intbd, mod-p srt, sl
calc; SHLY SLTST: v dk
gy, frm, subblky, gr-rthy, sl
calc; tr pyr;





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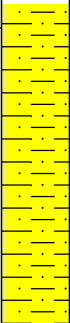
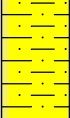
-12262 INC
89.79, AZM
271.97, TVD
8158.08

-12300 WT 10,
VIS 54

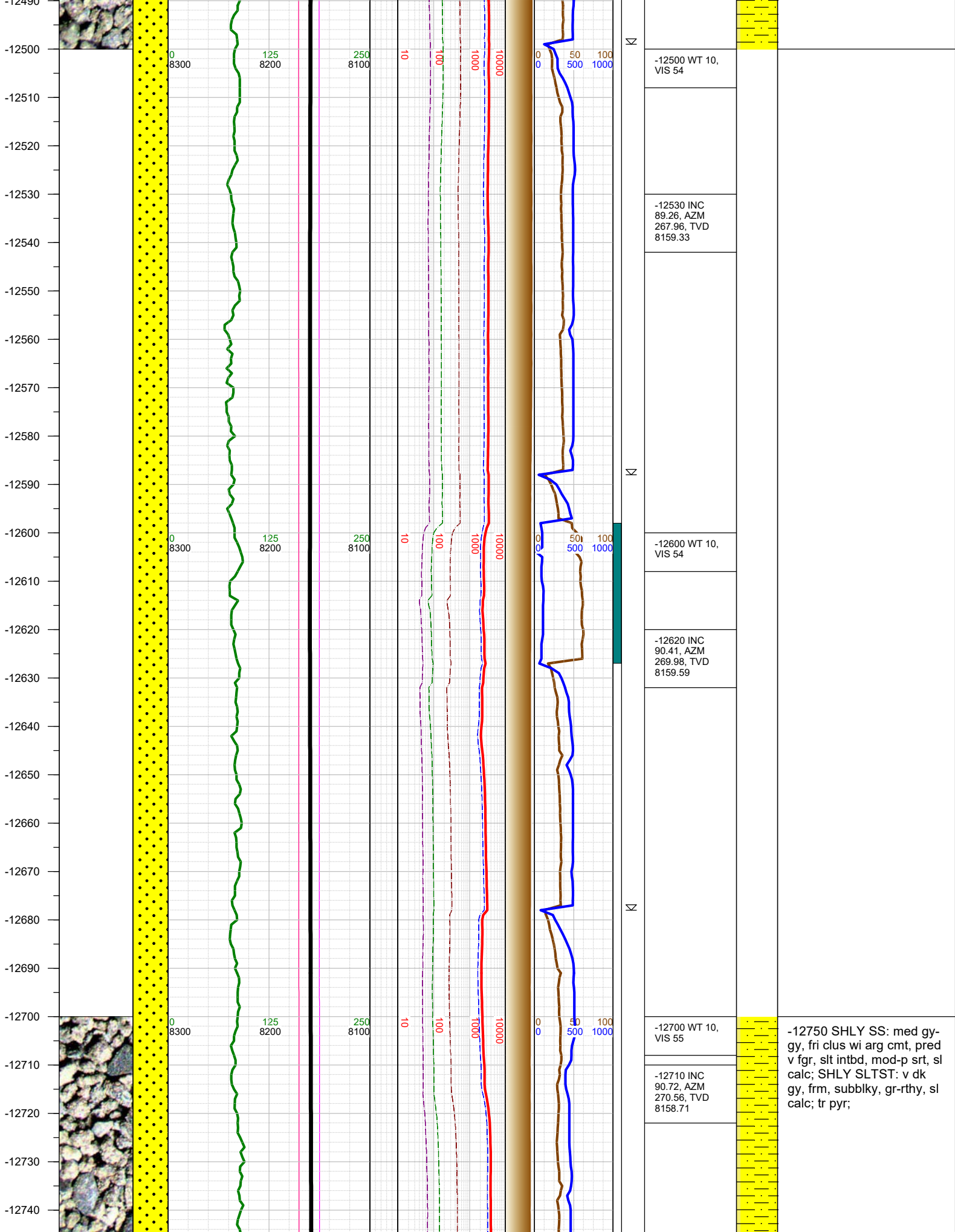
-12352 INC
89.97, AZM
270.6, TVD
8158.27

-12400 WT 10,
VIS 54

-12441 INC
89.7, AZM
269.59, TVD
8158.53

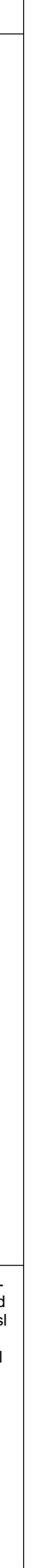
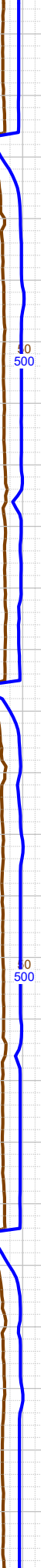
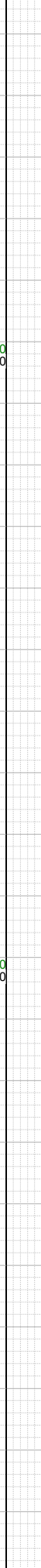
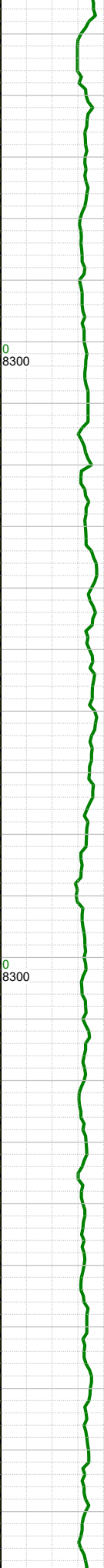
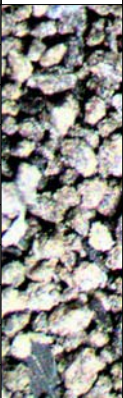


-12500 SHLY SS: med gy-
gy, fri clus wi arg cnt, pred
v fgr, slt intbd, mod-p srt, sl
calc; SHLY SLTST: v dk
gy, frm, subblky, gr-rthy, sl
calc; tr pyr;



-12750 SHLY SS: med gy-gy, fri clus wi arg cmt, pred v fgr, slt intbd, mod-p srt, sl calc; SHLY SLTST: v dk gy, frm, subblky, gr-rthy, sl calc; tr pyr;

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-12990



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-12799 INC
90.72, AZM
269.5, TVD
8157.59

-12820 WT 10,
VIS 55

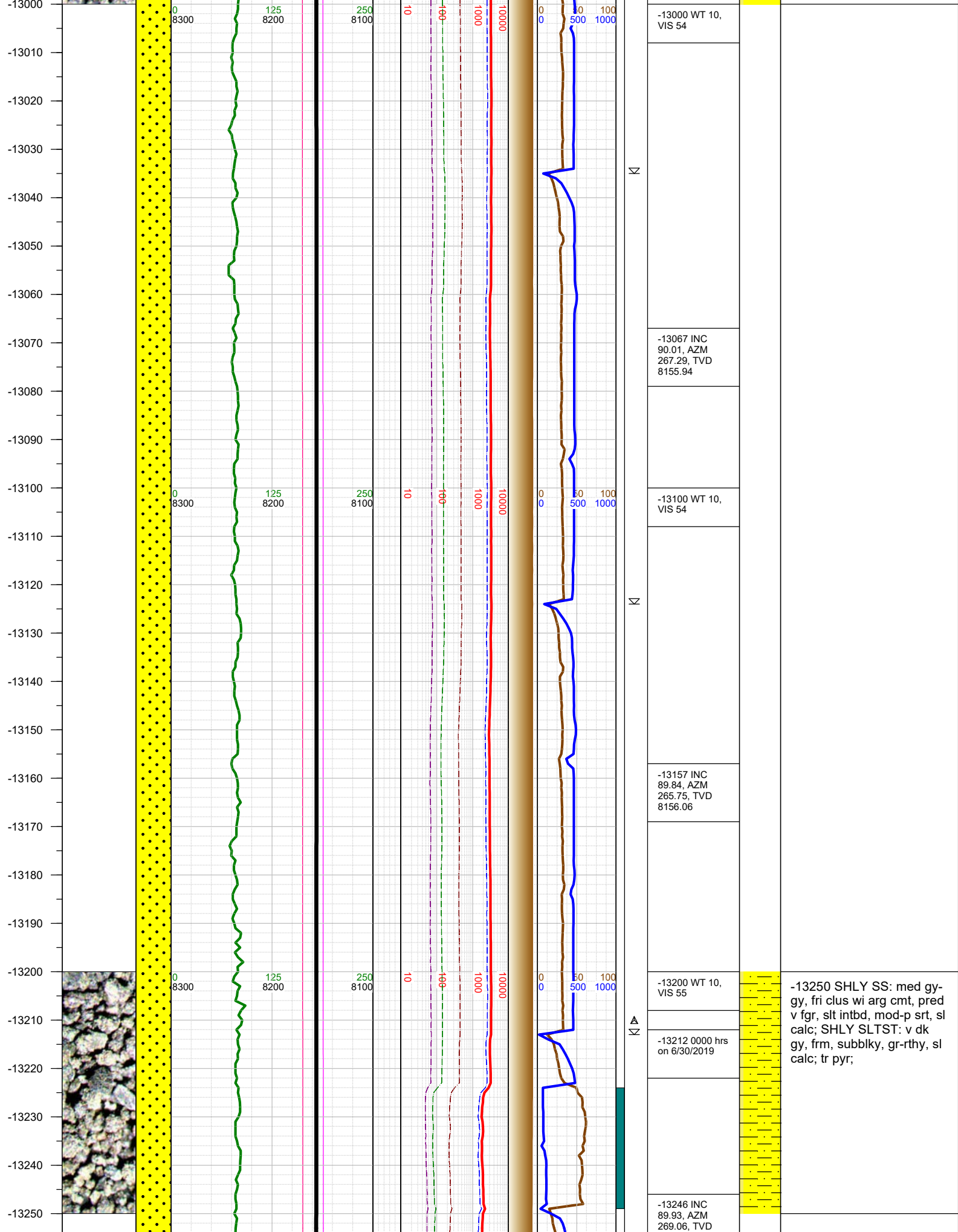
-12888 INC
90.28, AZM
269.94, TVD
8156.81

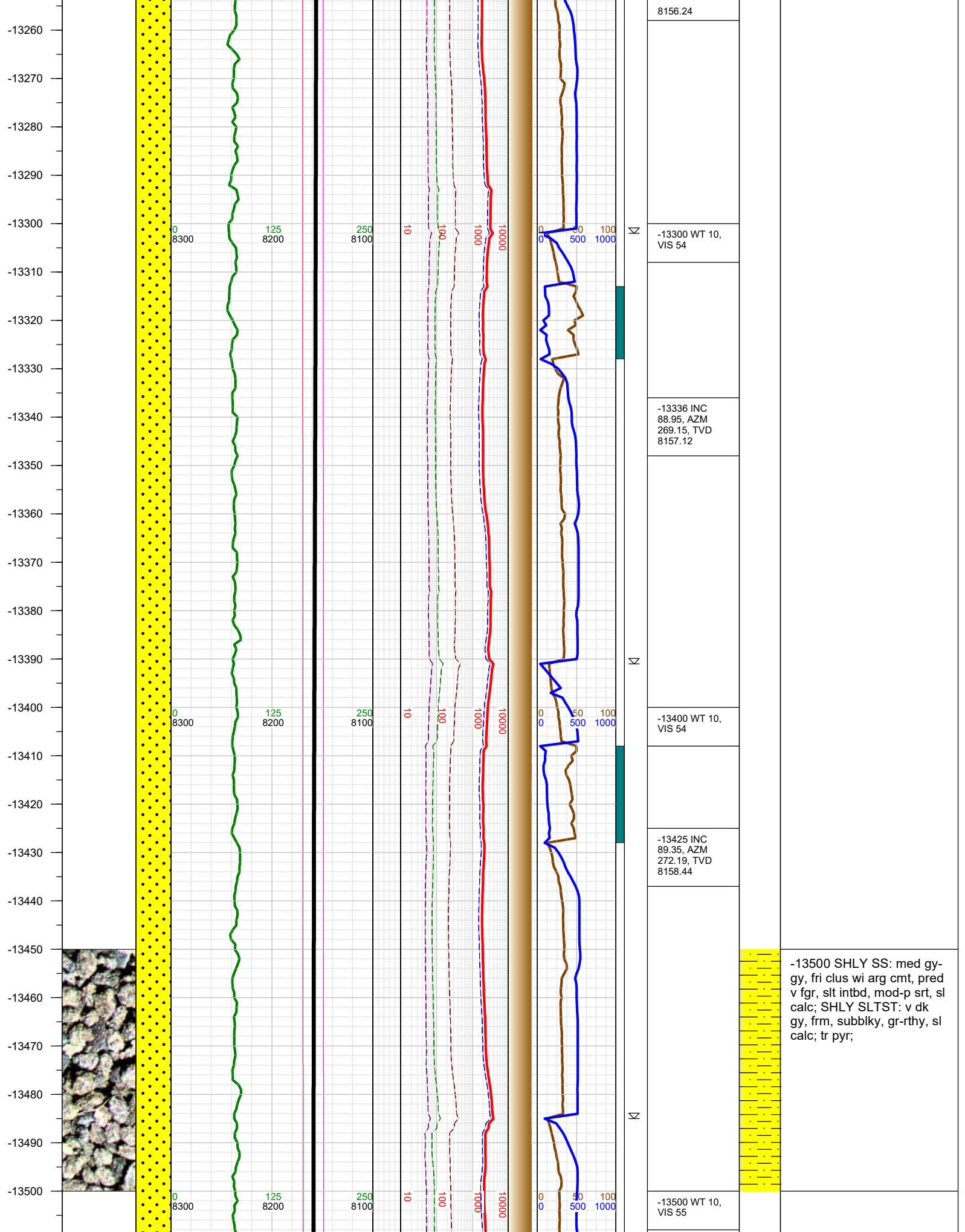
-12900 WT 10,
VIS 54

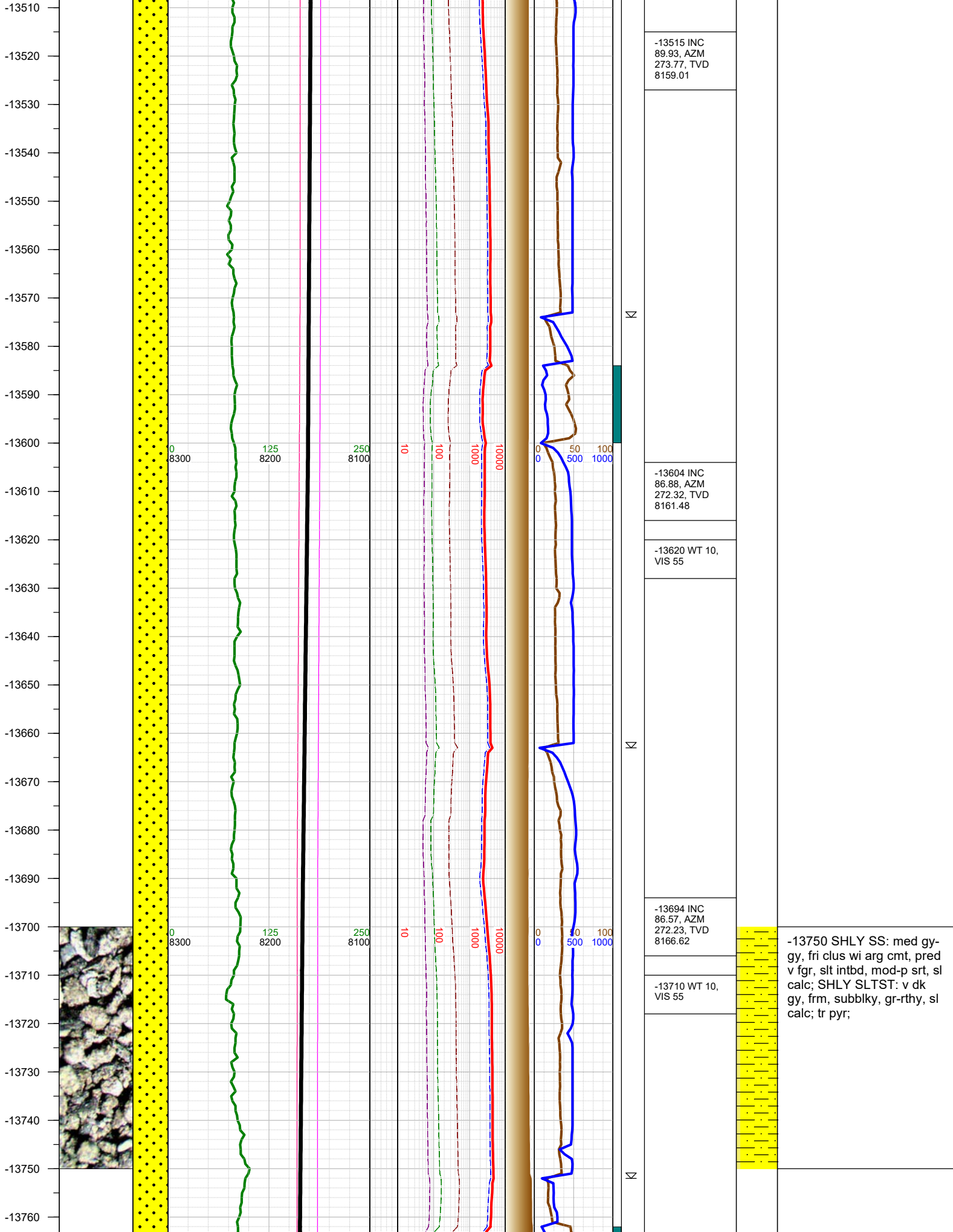
-12978 INC
90.41, AZM
268.92, TVD
8156.27



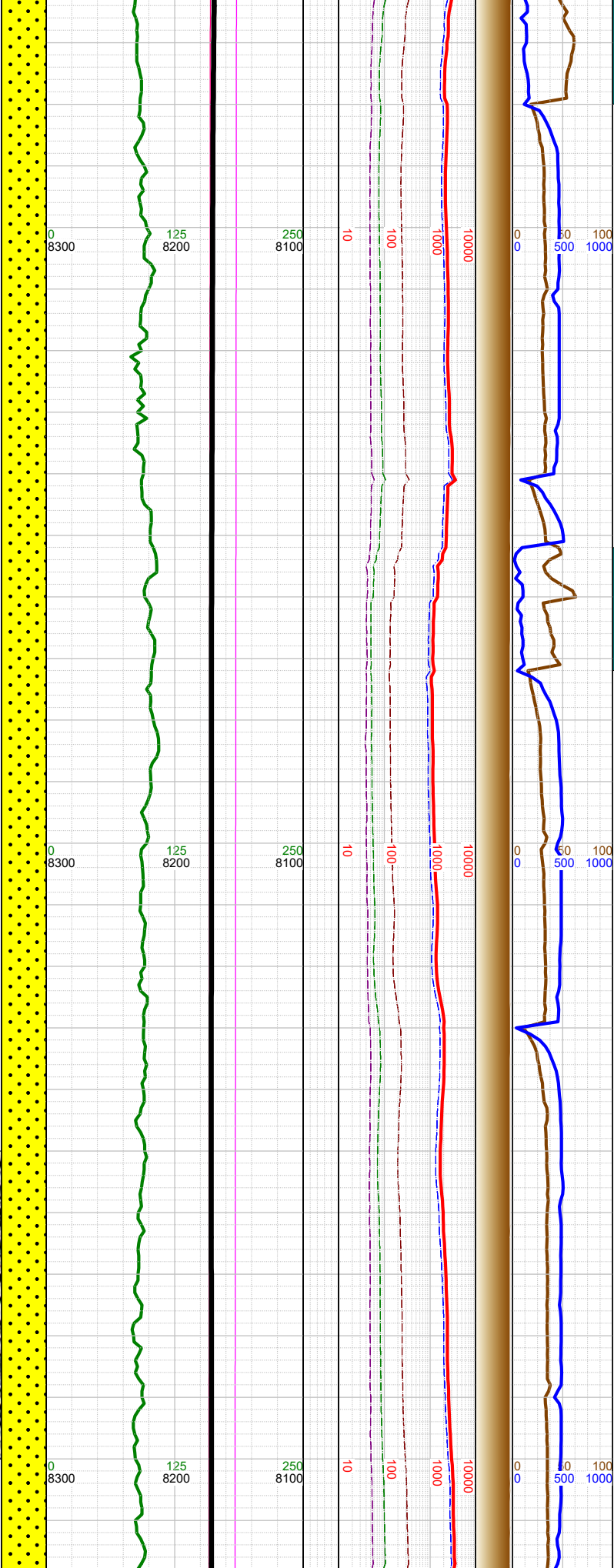
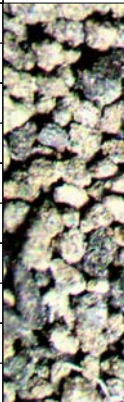
-13000 SHLY SS: med gy-
gy, fri clus wi arg cmt, pred
v fgr, slt intbd, mod-p srt, sl
calc; SHLY SLTST: v dk
gy, frm, subblky, gr-rthy, sl
calc; tr pyr;



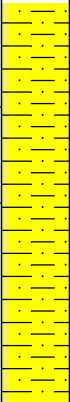




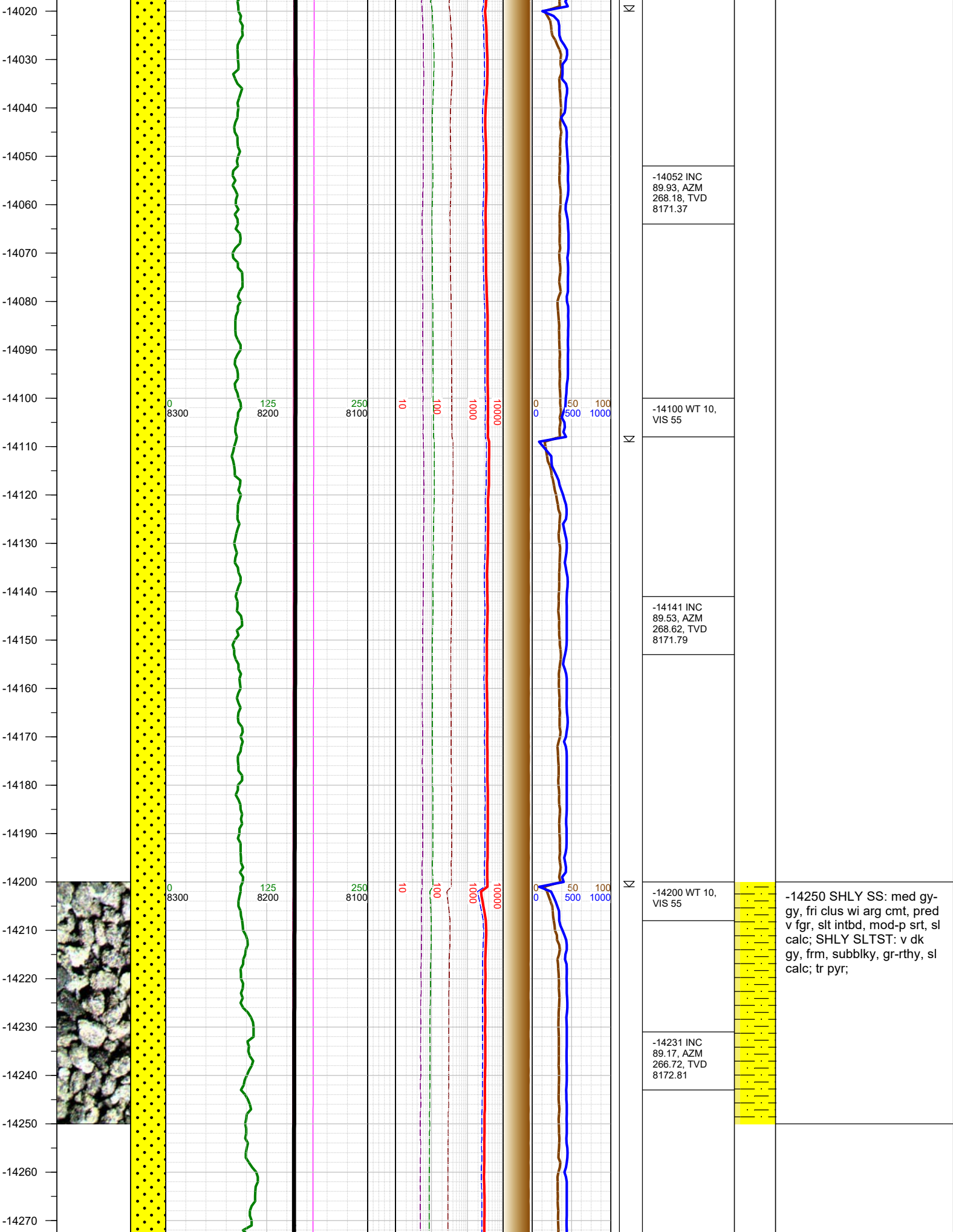
-13770
-13780
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-13990
-14000
-14010

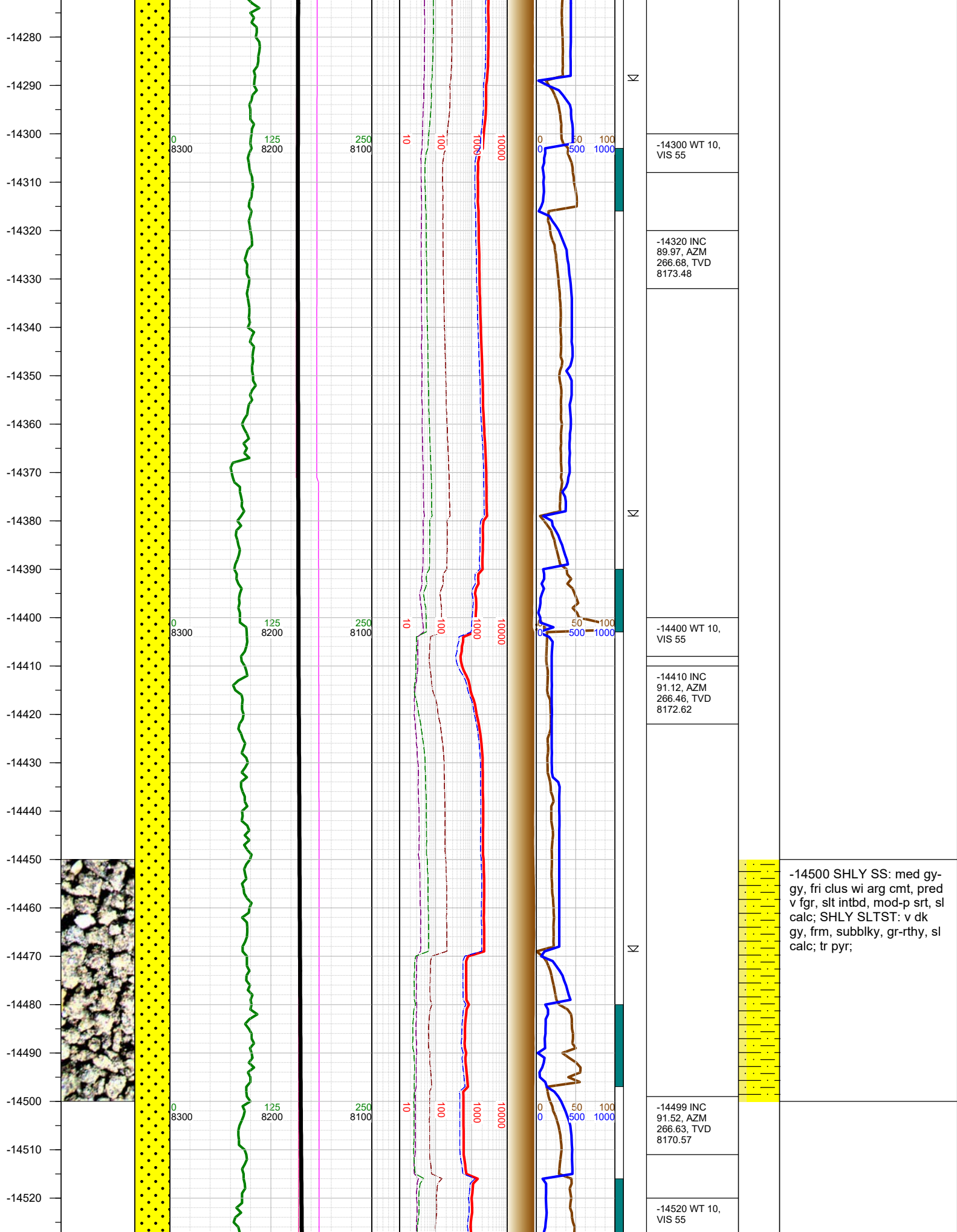


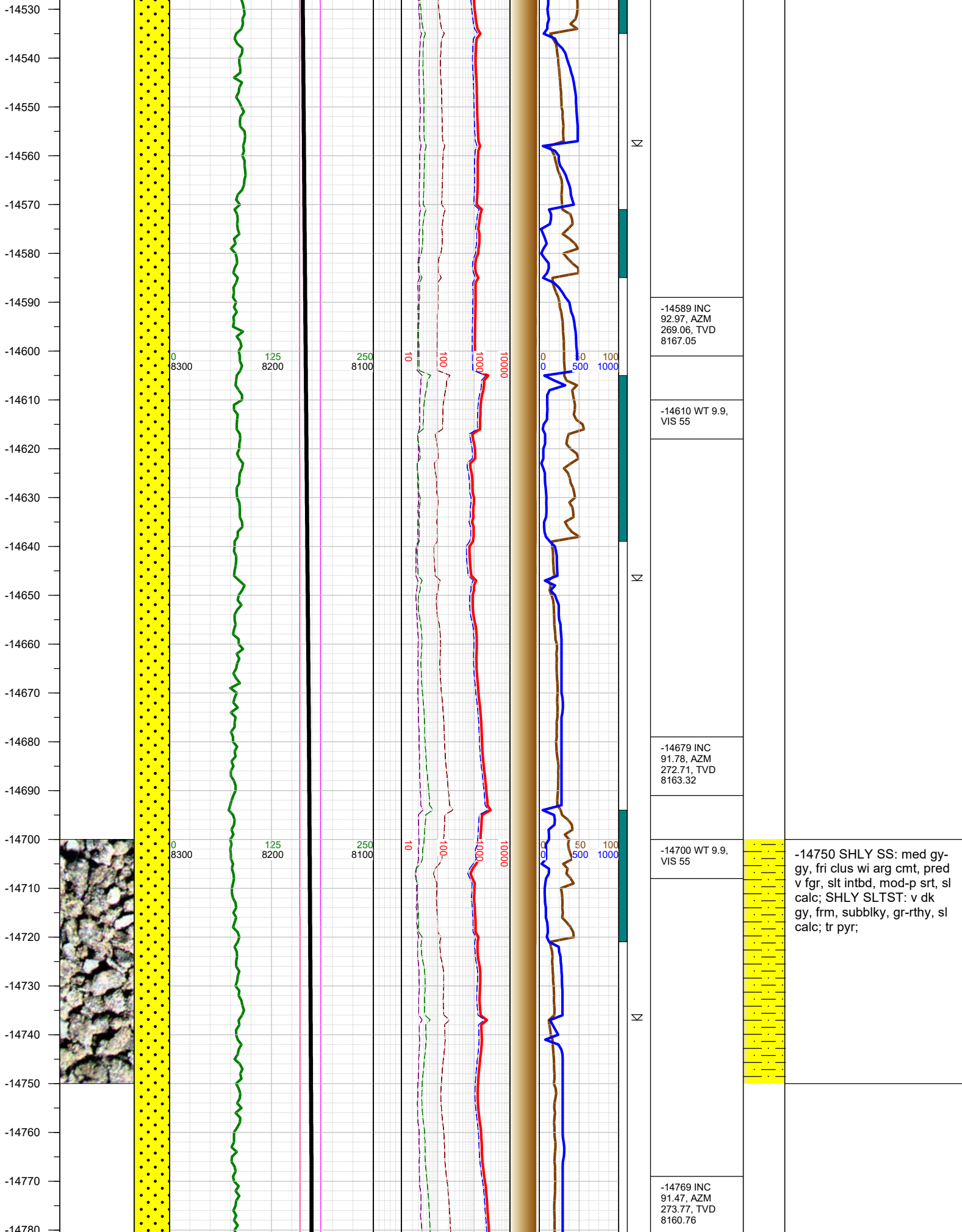
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| -13784 INC 88.78, AZM 271.79, TVD 8170.28 |
| -13800 WT 10, VIS 55 |
| -13873 INC 89.53, AZM 268.09, TVD 8171.59 |
| -13900 WT 10, VIS 55 |
| -13963 INC 90.41, AZM 268.62, TVD 8171.64 |
| -14000 WT 10, VIS 55 |



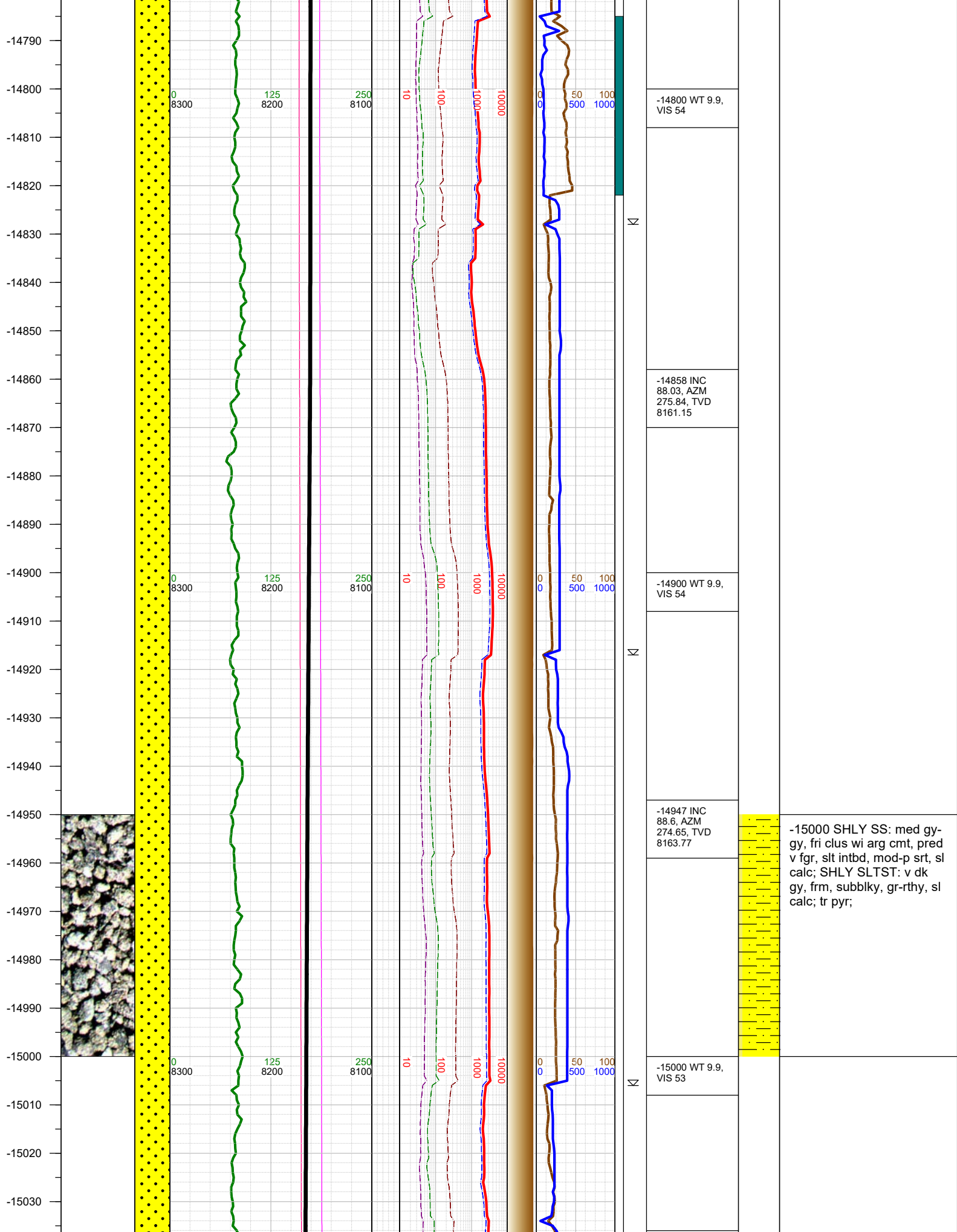
-14000 SHLY SS: med gy-
gy, fri clus wi arg cmt, pred
v fgr, slt intbd, mod-p srt, sl
calc; SHLY SLTST: v dk
gy, frm, subblky, gr-rthy, sl
calc; tr pyr;





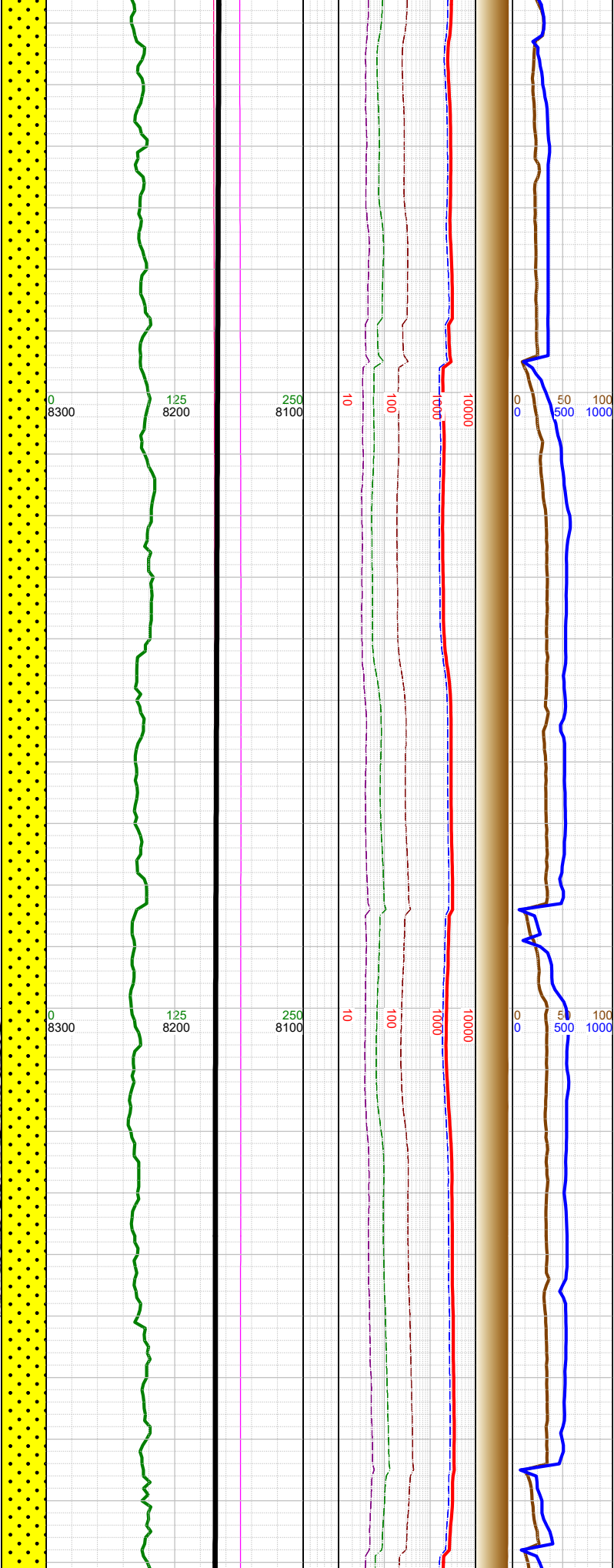


-14750 SHLY SS: med gy-gy, fri clus wi arg cmt, pred v fgr, slt intbd, mod-p srt, sl calc; SHLY SLTST: v dk gy, frm, subblky, gr-rthy, sl calc; tr pyr;



-15000 SHLY SS: med gy-gy, fri clus wi arg cmt, pred v fgr, slt intbd, mod-p srt, sl calc; SHLY SLTST: v dk gy, frm, subblky, gr-rthy, sl calc; tr pyr;

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-15280
-15290



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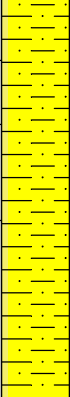
-15036 INC
88.82, AZM
274.39, TVD
8165.77

-15100 WT 9.9,
VIS 53

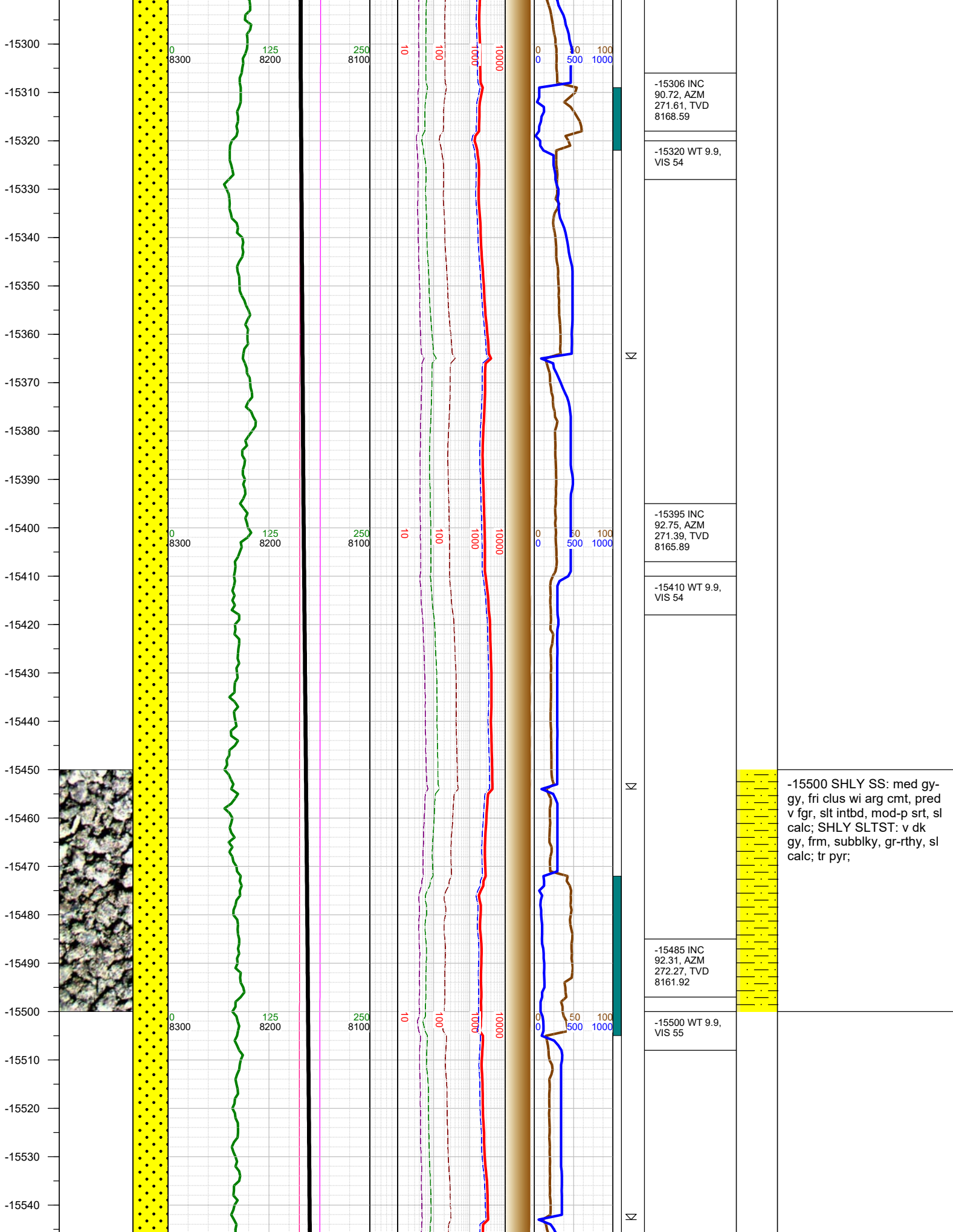
-15127 INC
89.35, AZM
273.42, TVD
8167.23

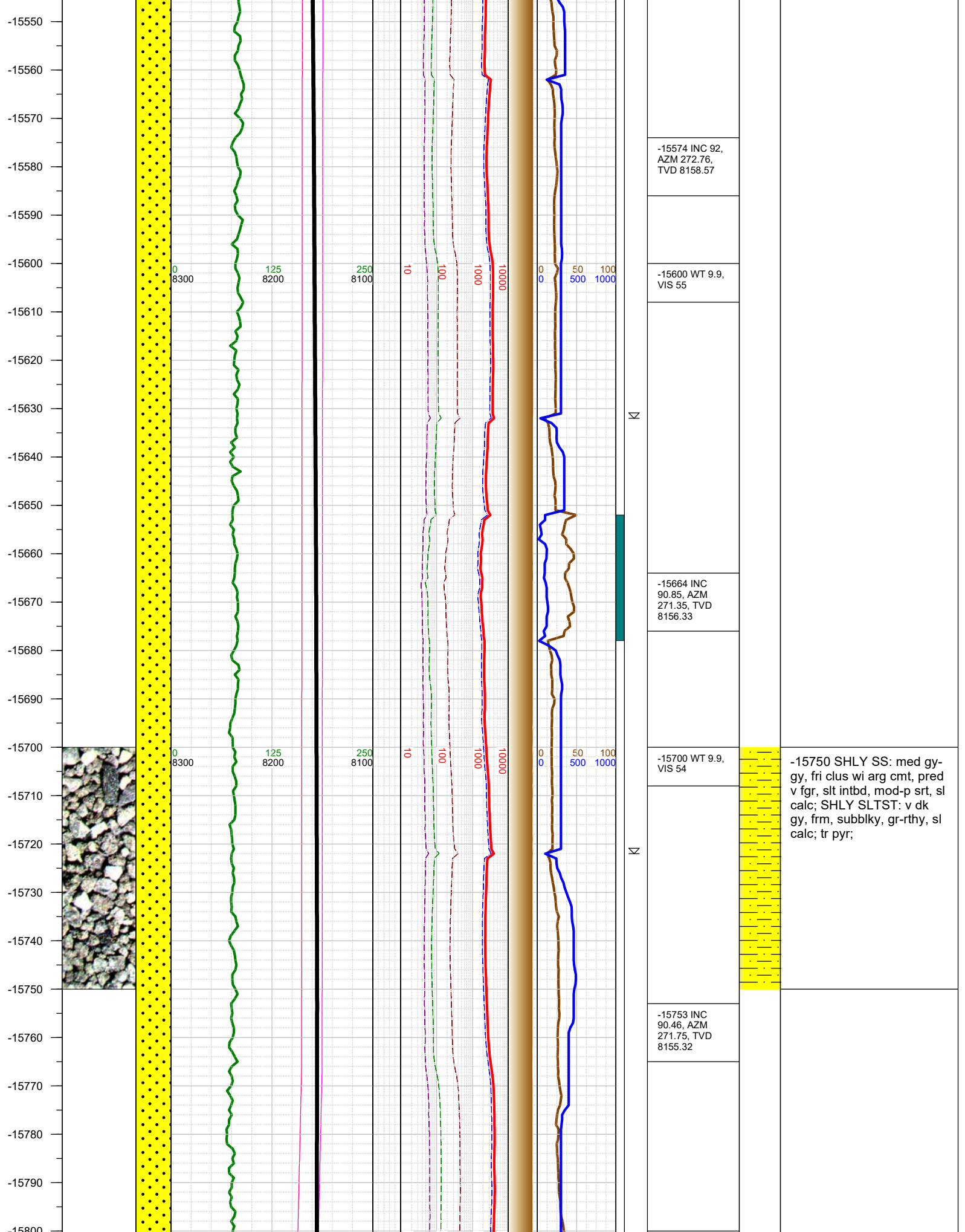
-15200 WT 9.9,
VIS 53

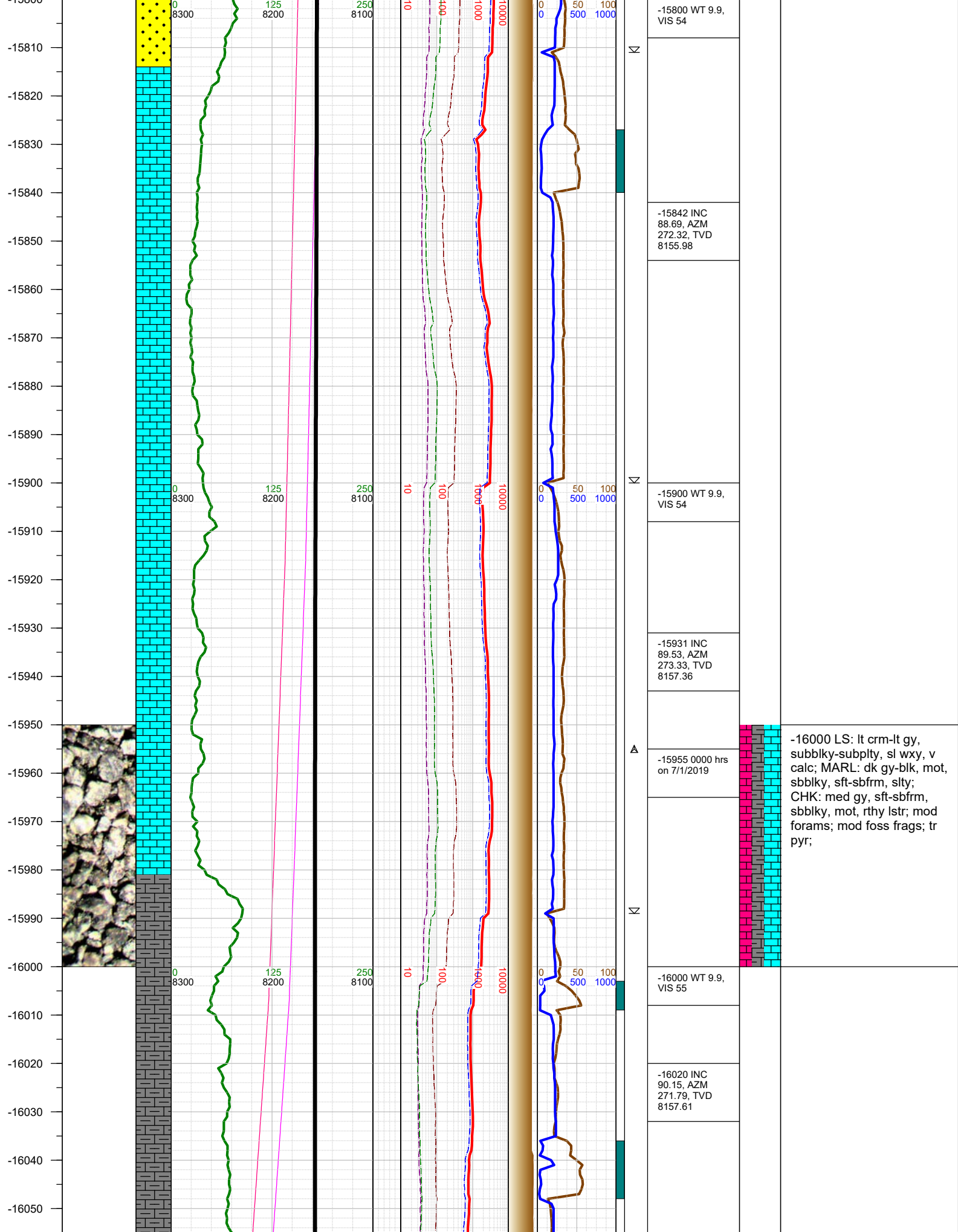
-15216 INC
89.09, AZM
272.8, TVD
8168.44

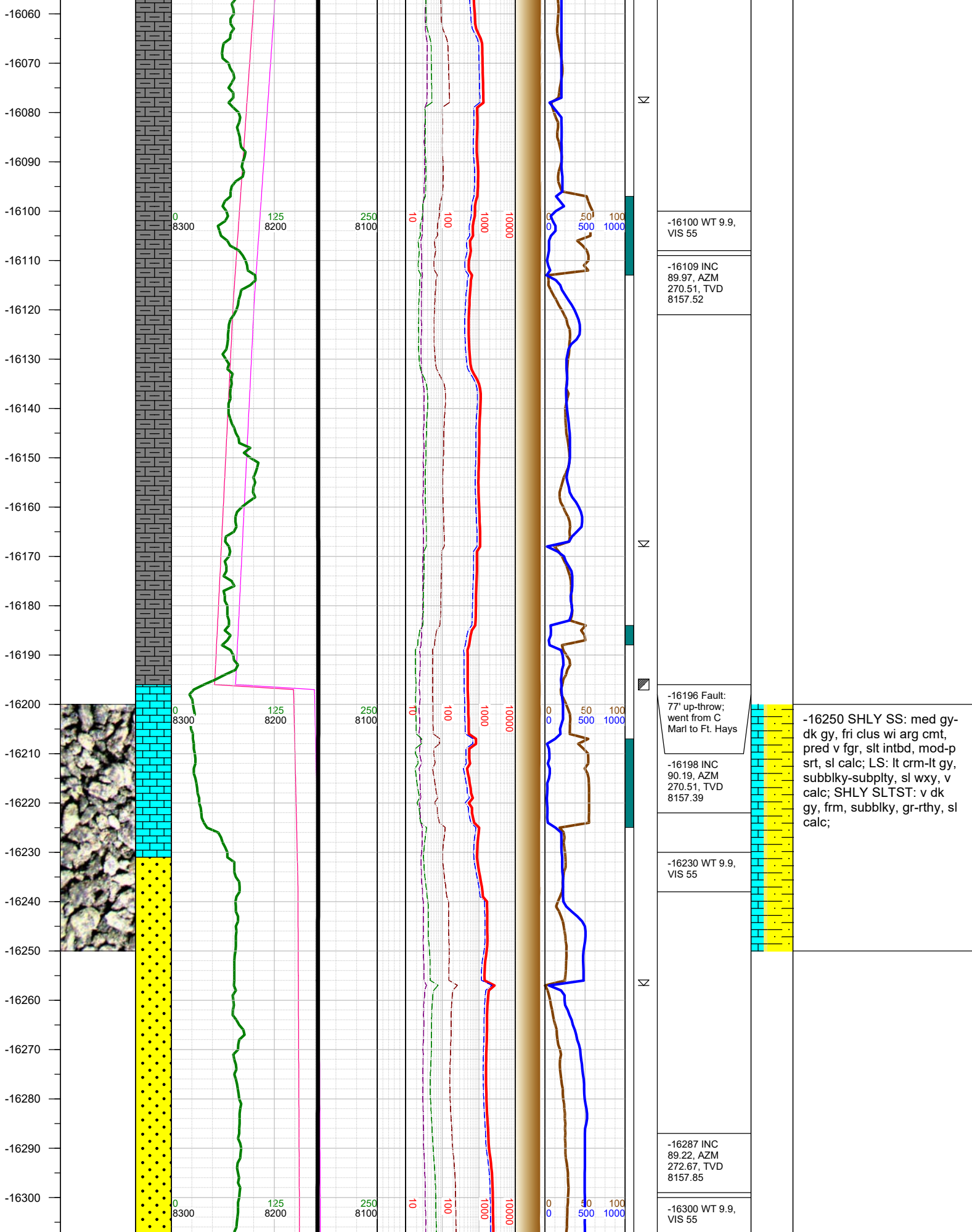


-15250 SHLY SS: med gy-
gy, fri clus wi arg cmt, pred
v fgr, slt intbd, mod-p srt, sl
calc; SHLY SLTST: v dk
gy, frm, subblky, gr-rthy, sl
calc; tr pyr;

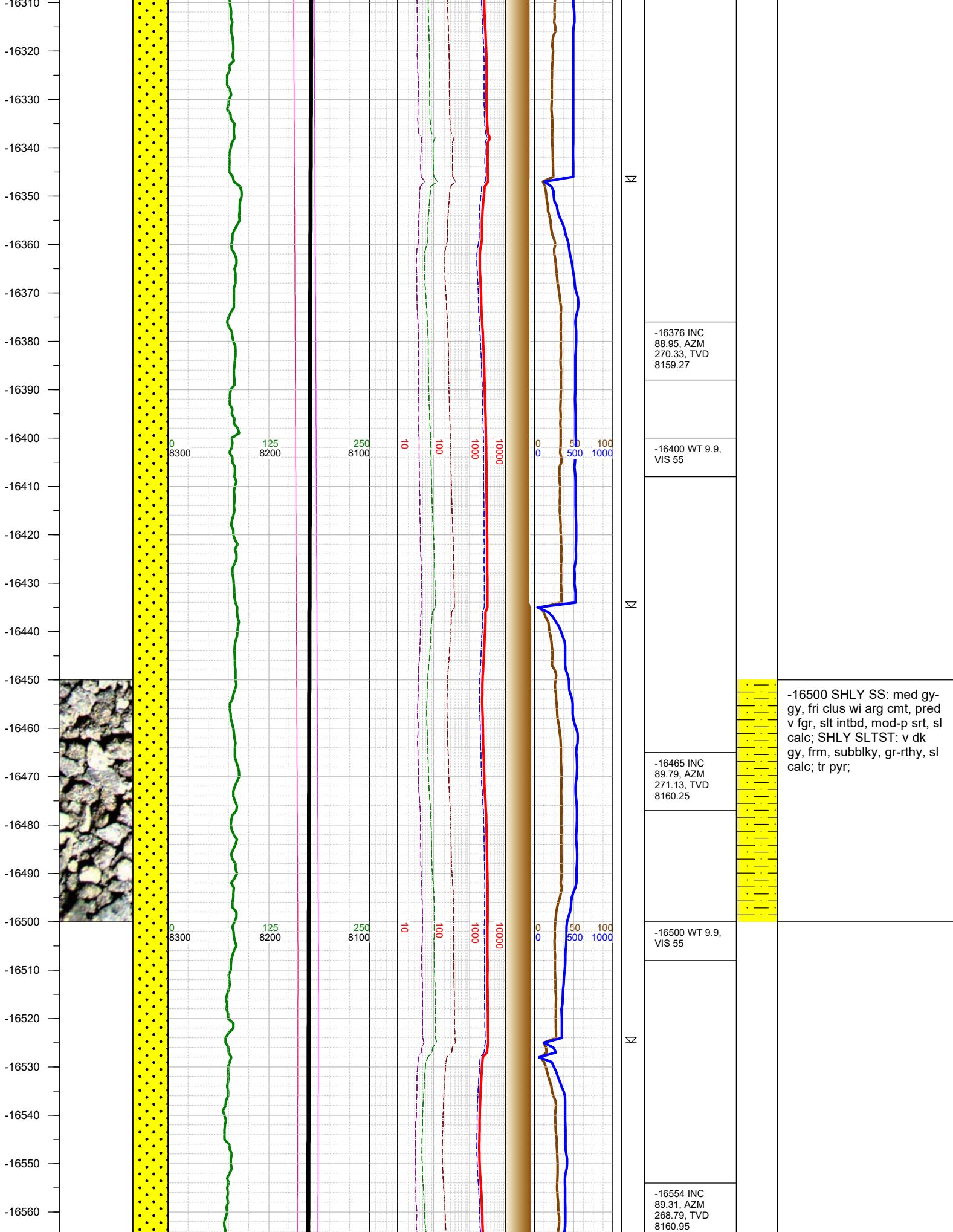




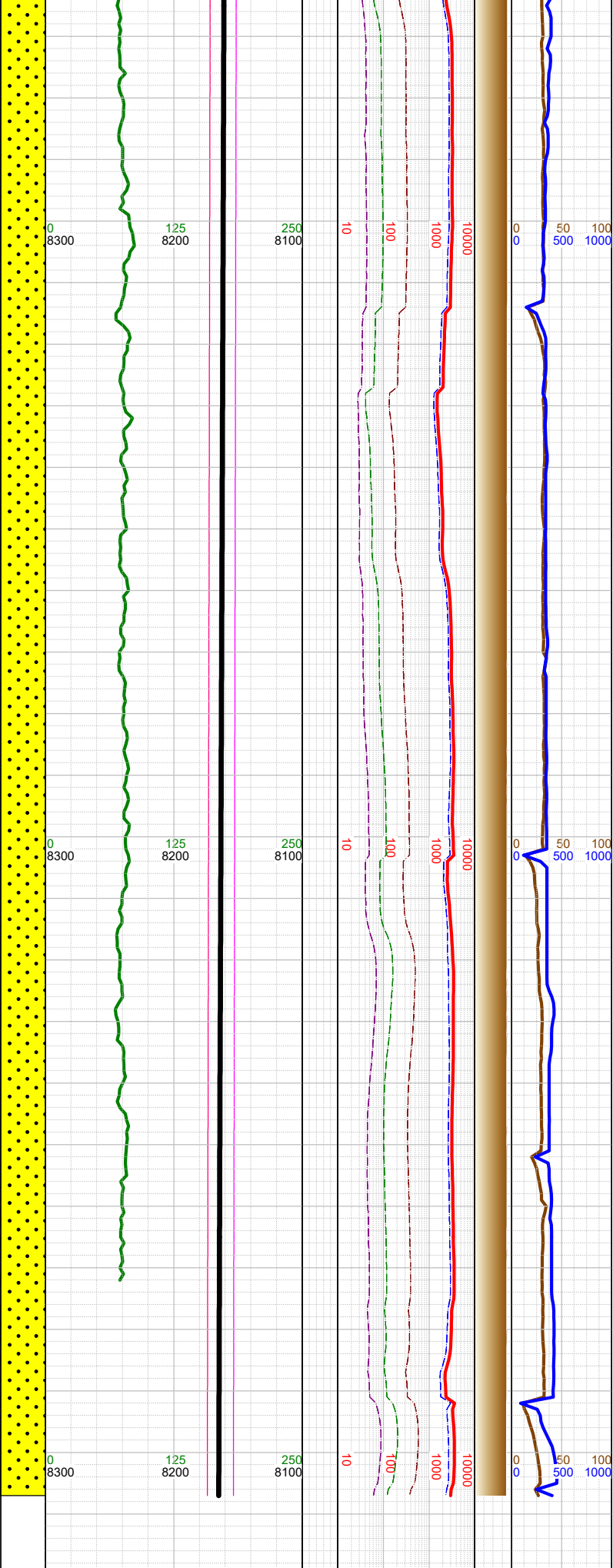
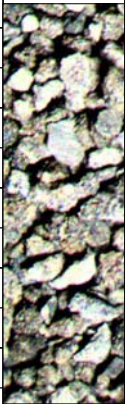




-16250 SHLY SS: med gy-dk gy, fri clus wi arg cmt, pred v fgr, slt intbd, mod-p srt, sl calc; LS: lt crm-lt gy, subblky-subplty, sl wxy, v calc; SHLY SLTST: v dk gy, frm, subblky, gr-rthy, sl calc;



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-16810



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-16600 WT 9.9,
VIS 55

-16644 INC
88.78, AZM
269.19, TVD
8162.45

-16700 WT 9.9,
VIS 55

-16747 INC
89.17, AZM
267.29, TVD
8164.29

-16790 WT 9.9,
VIS 55

-16807 Reached
horizontal TD of
16807' MD,
8165' TVD at
0839 hrs on

-16807 SHLY SS: med gy-
gy, fri clus wi arg cmt, pred
v fgr, slt intbd, mod-p srt, sl
calc; SHLY SLTST: v dk
gy, frm, subblky, gr-rthy, sl
calc; tr pyr;

