OPERATOR: **Extraction Oil & Gas**
WELL NAME: **Merlin 29E-10-2C**

FIELD NAME: DJ Basin - Wattenberg
DRILLING RIG: Patterson 901
API #: 05-123-47466

LAT/LONG: 40.458648, -104.925162
SURFACE HOLE: SWNW S29-T6N-R67W, 2322' FNL, 365' FWL
BOTTOM HOLE: S28-T6N-R67W, 542' FNL, 300' FWL

Earth Science Agency, LLC

COUNTY: Adams
STATE: Colorado
GROUND ELEVATION: 4817'
KELLY BUSHING: 4842'
DRILLING FLUID: OBM
TVD VS. MD: 7208' / 12887'
SPUD DATE: January 18, 2019
TD DATE: January 19, 2019

DEPTHS LOGGED: 6000' - 12887'
DATES LOGGED: January 18, 2019 - January 19, 2019
GEOLOGISTS: Dan Jacobs, Blake Eatherton
SCALE: 5" = 100'

LEGEND

CHALK
LIMESTONE
SHALY LIMESTONE
MARLSTONE
CALCAREOUS SHALE
DOLOMITE
SHALE
SILTY SHALE
SHALY SILTSTONE
SHALY SANDSTONE
SANDSTONE
ANHYDRITE

FORMATION | CONNECTION | MIDNIGHT | NEW BIT | GAS SHOW | FAULT

MEASURED DEPTH (FT) | PHOTOS | MUDLOGGER INTERP | GEOSTEERING INTERP: Target Top / Base | TVD ft: 7600 – 0 | GAMMA api: 0 – 250 | OIL SHOWS F < B | GAS: Total, C1, C2, C3, C4, Units - Log Scale | MUD VOL. 800 bbl | ROP ft/hr: 0 – 1000 | WOB klbs: 0 – 100 | SLIDES SYMBOLS | COMMENTS | CUTTINGS % | SAMPLE DESCRIPTION

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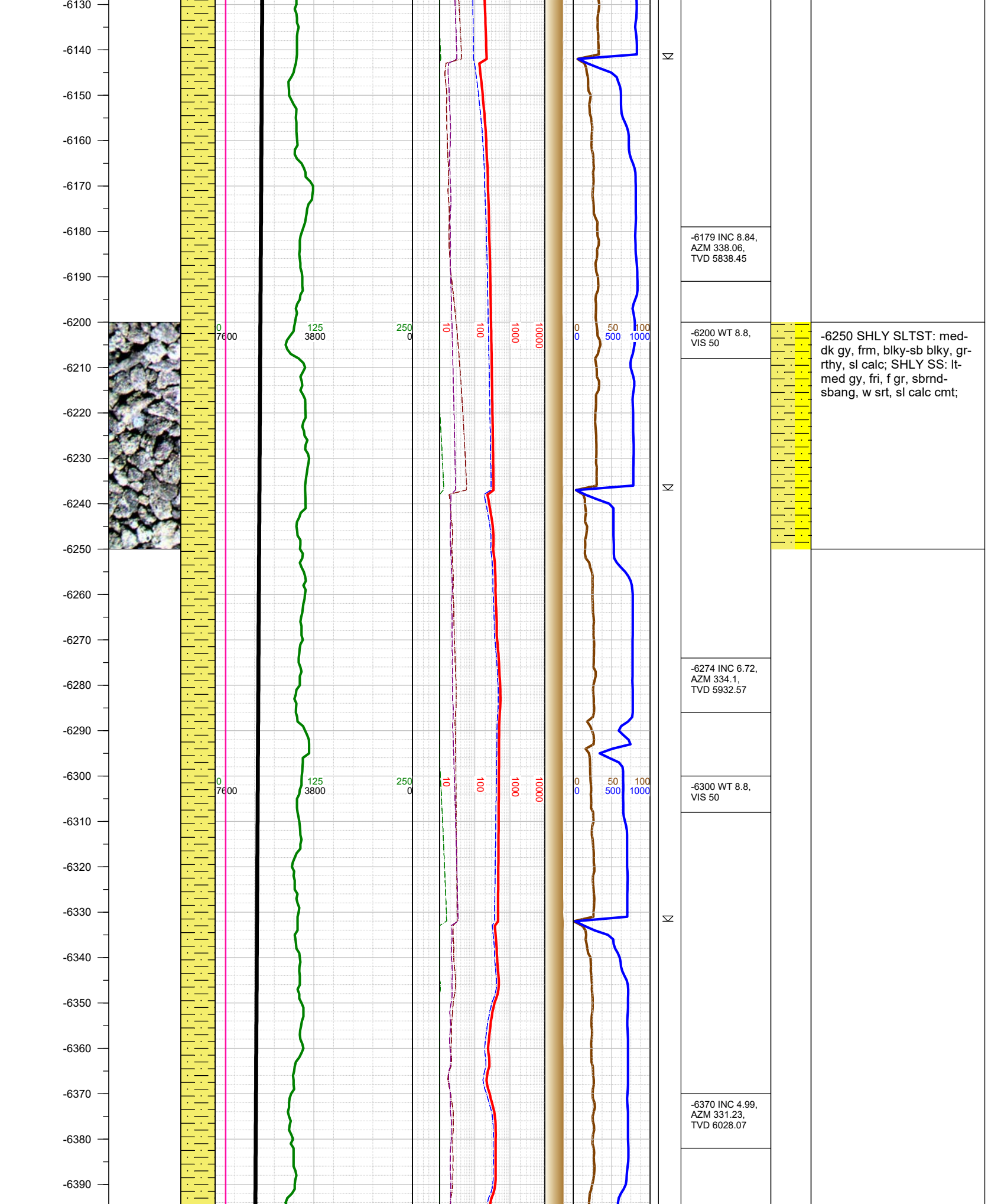
0 7600 | 125 3800 | 250 0 | 10 100 1000 10000 | 0 0 | 50 500 | 100 1000

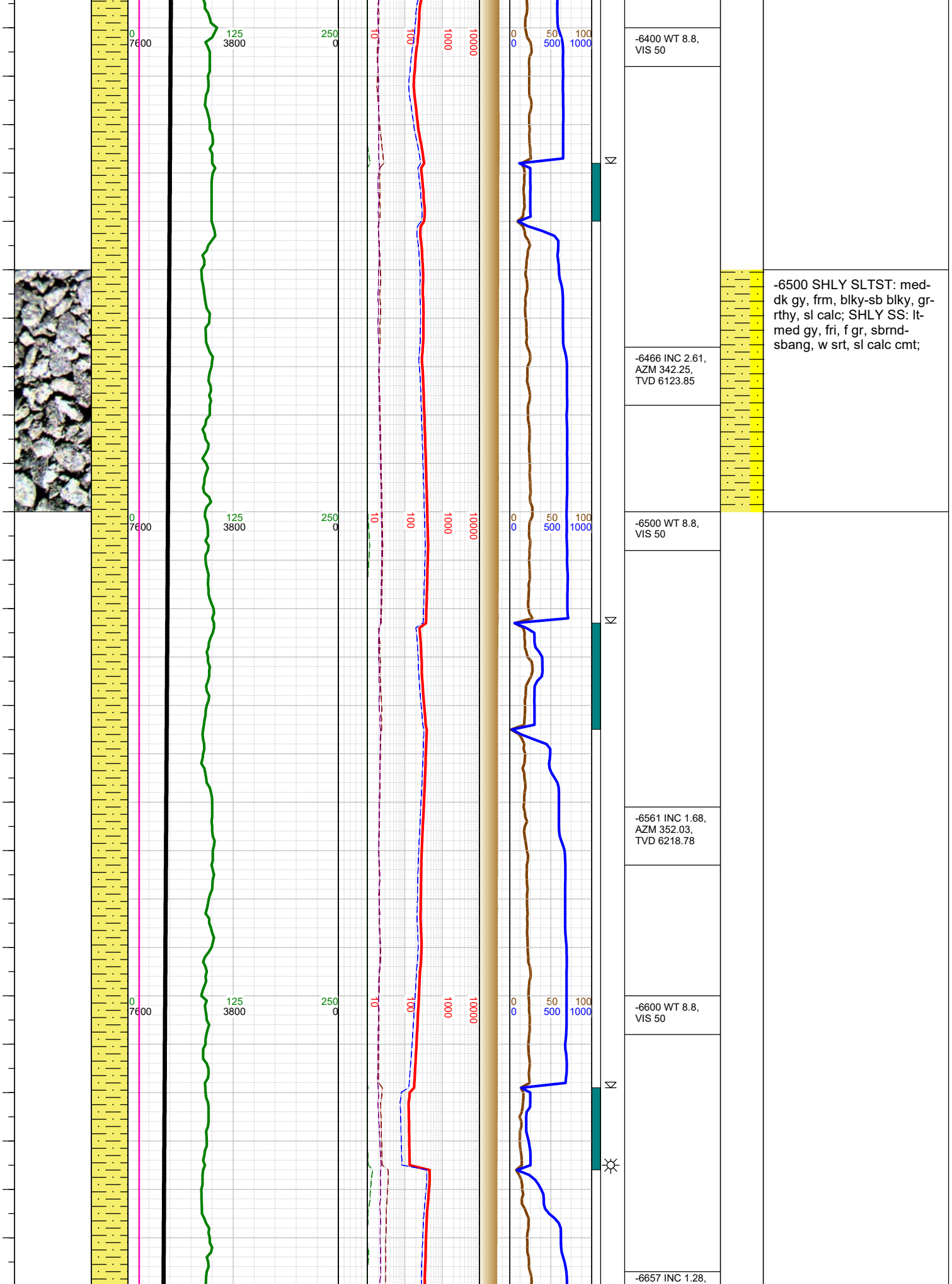
-6000 Surface preset. Spud and drilled out from surface of 1600' MD at 1003 hrs on 1/18/2019; Bit #1 - Reed TK59, 5x14, 8.5"

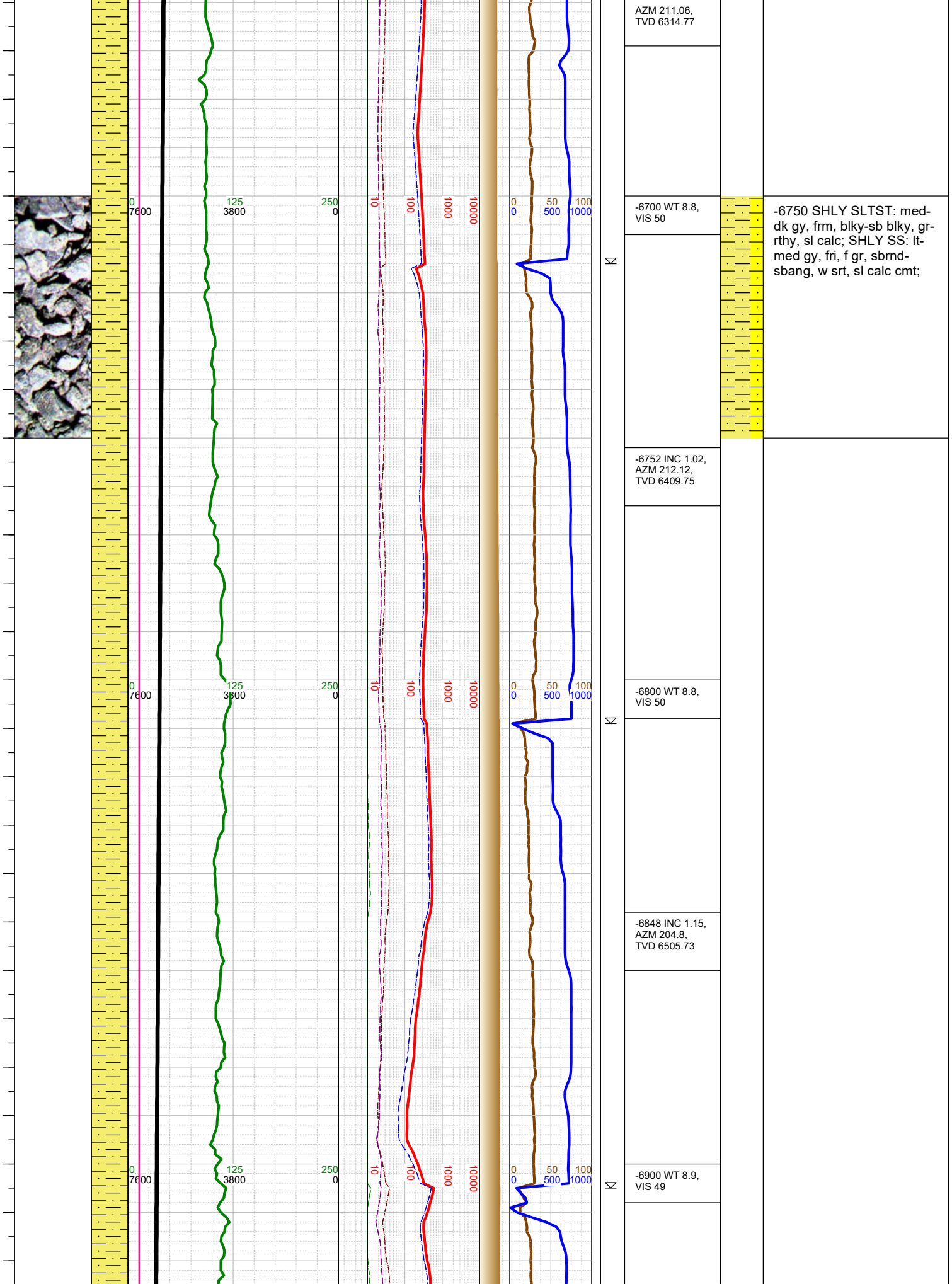
-6030 WT 8.7, VIS 50

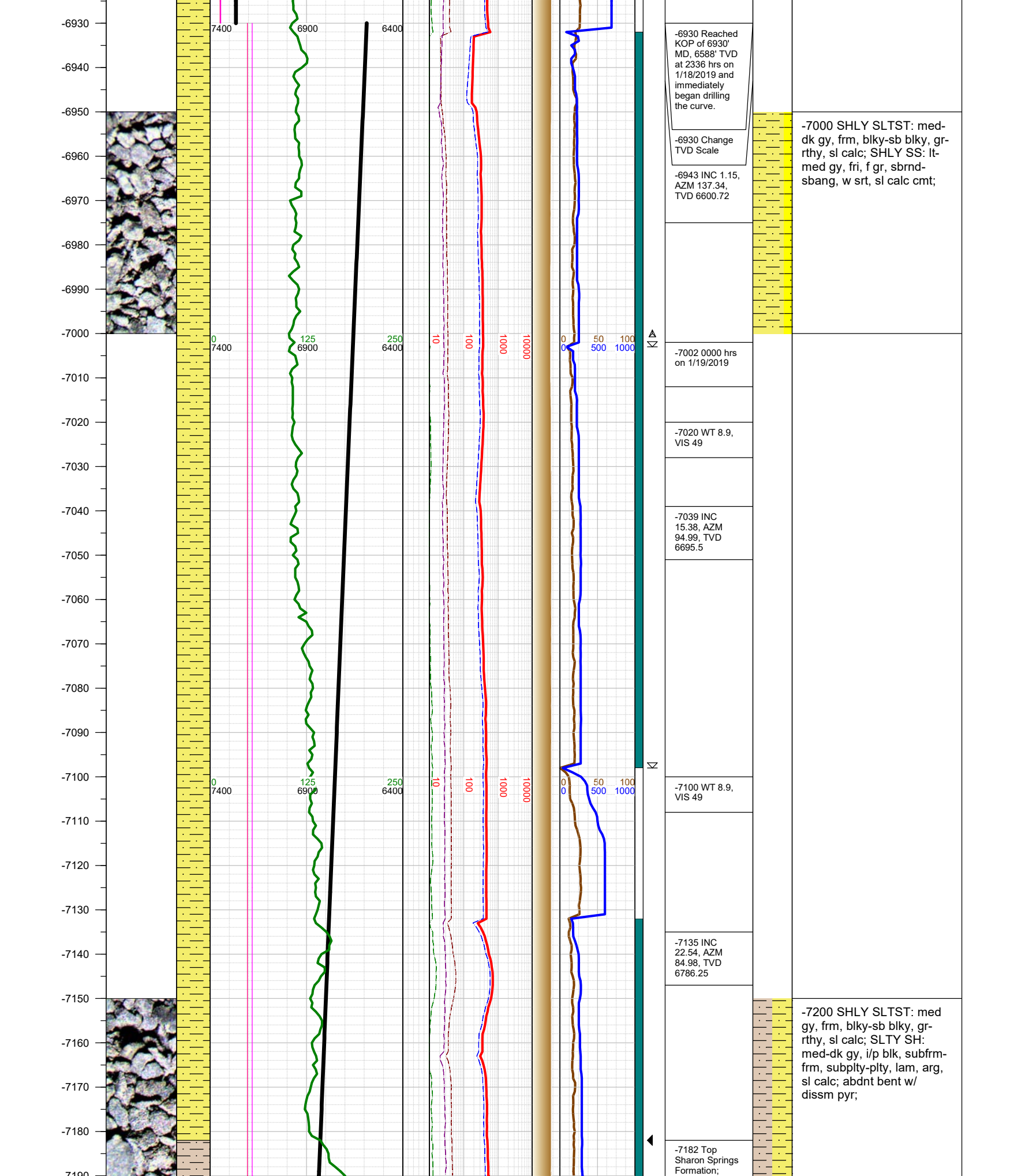
-6083 INC 10.83, AZM 340.57, TVD 5743.86

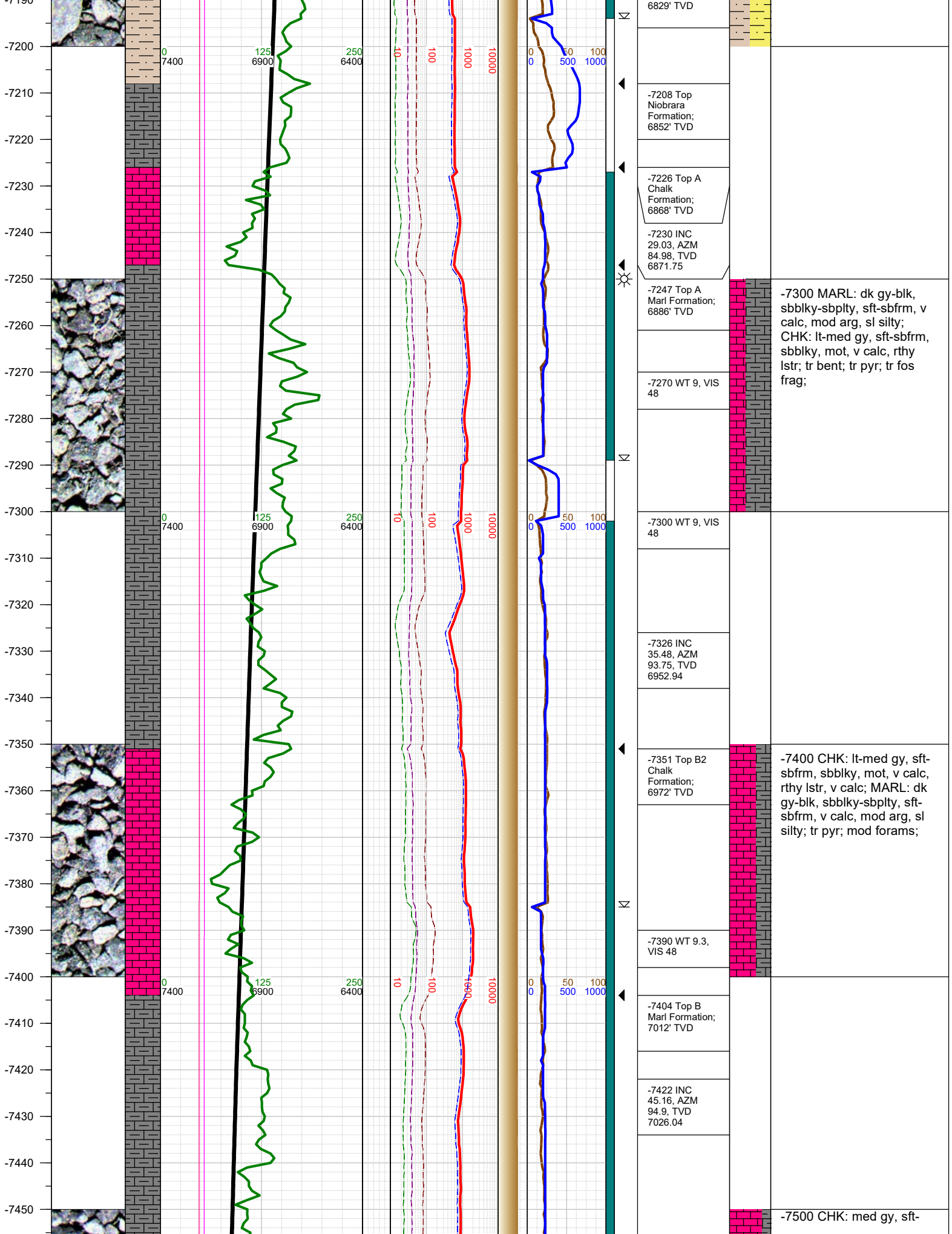
-6100 WT 8.7, VIS 50

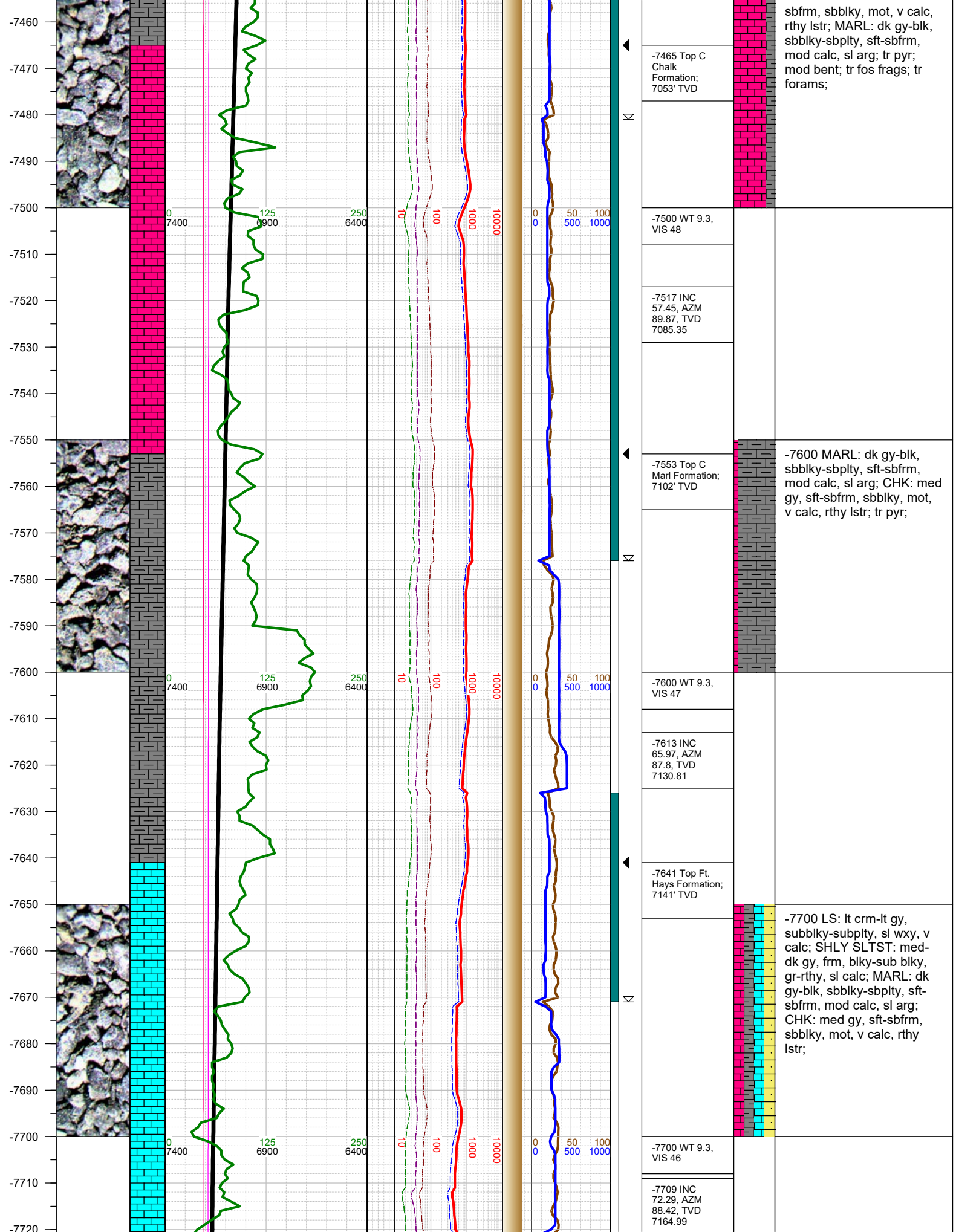

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-6179 INC 8.84, AZM 338.06, TVD 5838.45
-6200 WT 8.8, VIS 50
-6250 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt;
-6274 INC 6.72, AZM 334.1, TVD 5932.57
-6300 WT 8.8, VIS 50
-6370 INC 4.99, AZM 331.23, TVD 6028.07

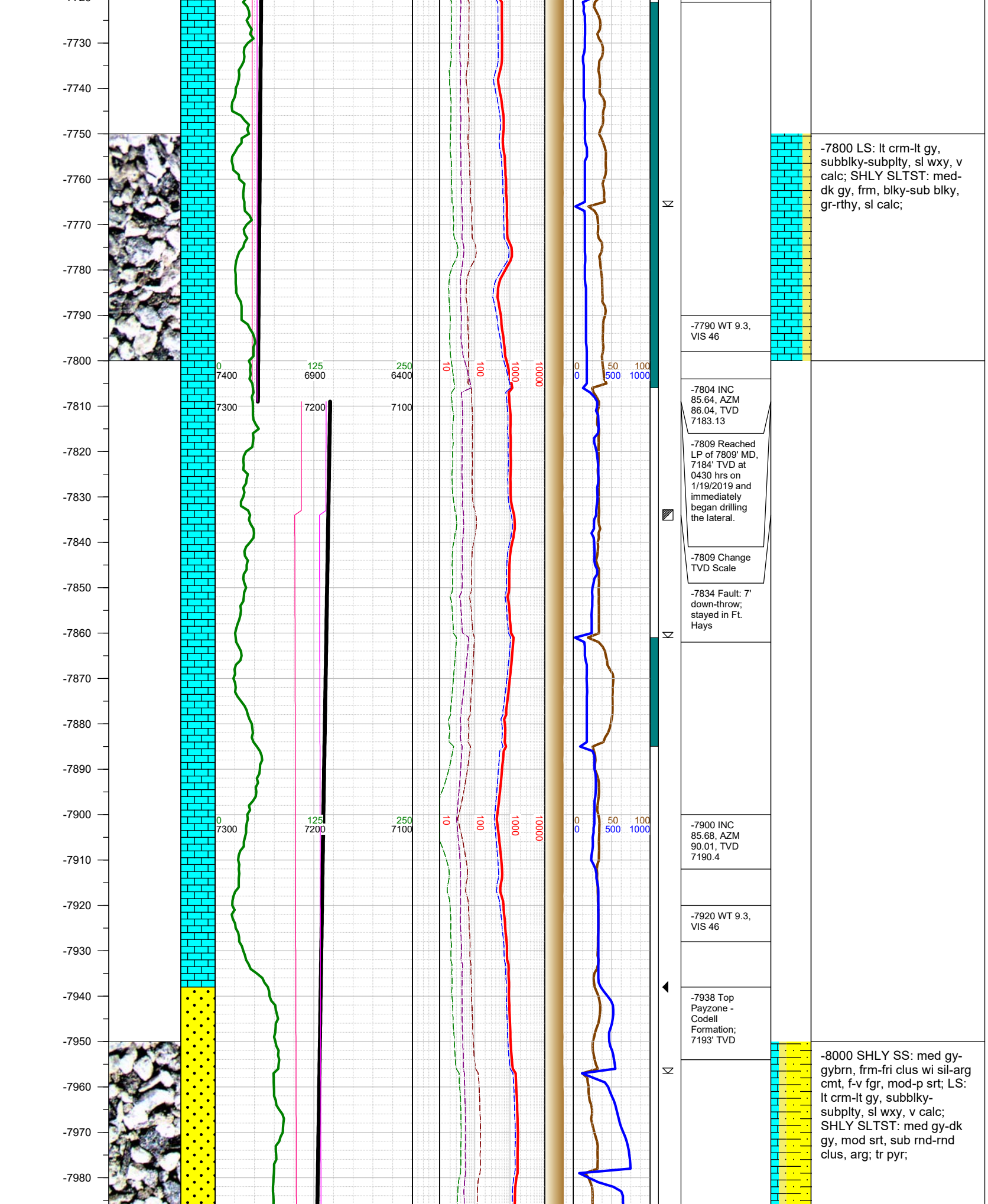

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-6400 WT 8.8, VIS 50
-6466 INC 2.61, AZM 342.25, TVD 6123.85
-6500 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt;
-6500 WT 8.8, VIS 50
-6561 INC 1.68, AZM 352.03, TVD 6218.78
-6600 WT 8.8, VIS 50
-6657 INC 1.28,

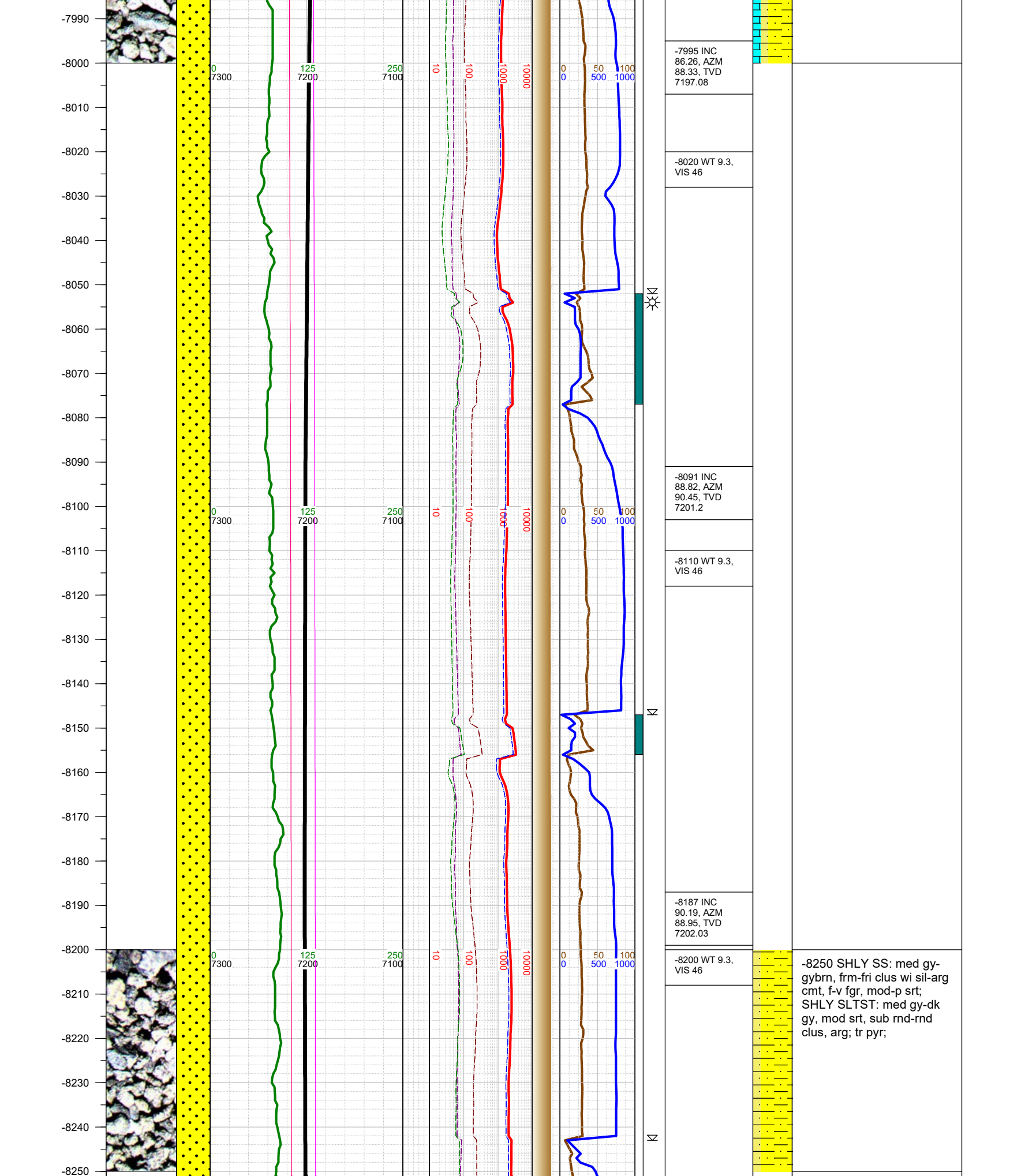

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AZM 211.06,
TVD 6314.77
-6700 WT 8.8,
VIS 50
-6750 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt;
-6752 INC 1.02,
AZM 212.12,
TVD 6409.75
-6800 WT 8.8,
VIS 50
-6848 INC 1.15,
AZM 204.8,
TVD 6505.73
-6900 WT 8.9,
VIS 49

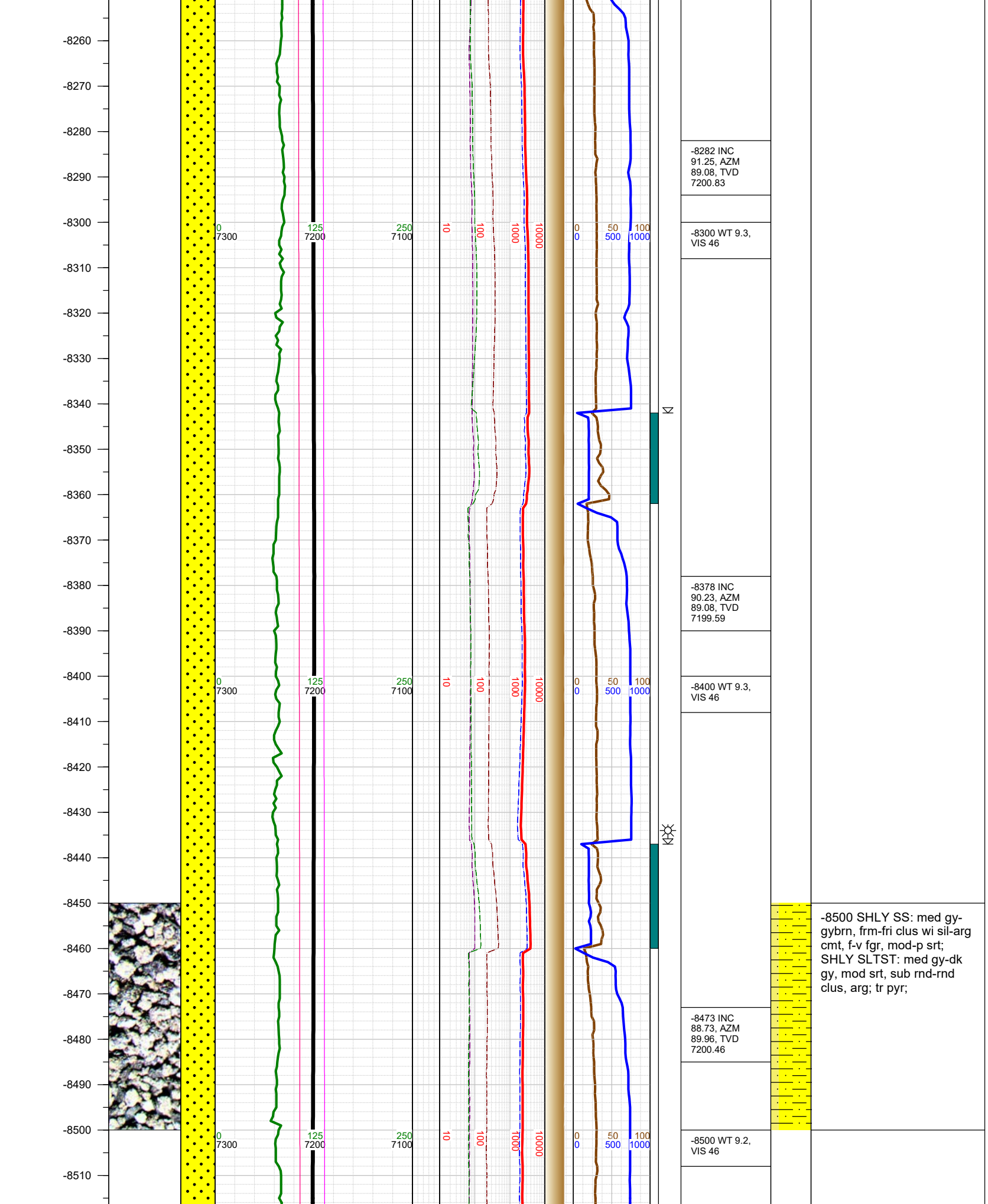

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-6930 Reached KOP of 6930' MD, 6588' TVD at 2336 hrs on 1/18/2019 and immediately began drilling the curve.
-6930 Change TVD Scale
-6943 INC 1.15, AZM 137.34, TVD 6600.72
-7002 0000 hrs on 1/19/2019
-7020 WT 8.9, VIS 49
-7039 INC 15.38, AZM 94.99, TVD 6695.5
-7100 WT 8.9, VIS 49
-7135 INC 22.54, AZM 84.98, TVD 6786.25
-7182 Top Sharon Springs Formation;
-7000 SHLY SLTST: med-dk gy, frm, blky-sb blky, gr-rthy, sl calc; SHLY SS: lt-med gy, fri, f gr, sbrnd-sbang, w srt, sl calc cmt;
-7200 SHLY SLTST: med gy, frm, blky-sb blky, gr-rthy, sl calc; SLTY SH: med-dk gy, i/p blk, subfrm-frm, subplty-plty, lam, arg, sl calc; abdnt bent w/ dissm pyr;

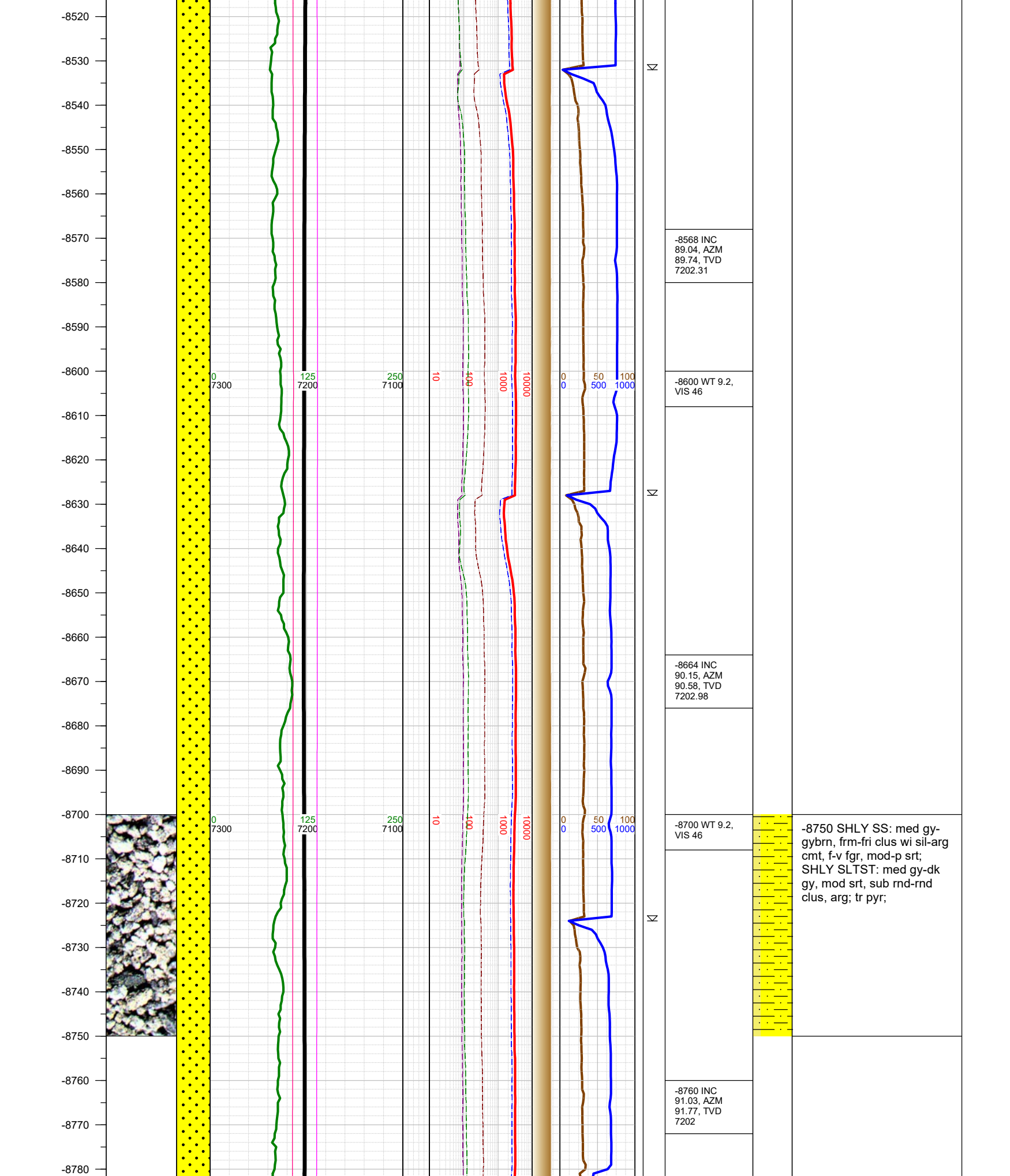

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6829' TVD
-7208 Top Niobrara Formation; 6852' TVD
-7226 Top A Chalk Formation; 6868' TVD
-7230 INC 29.03, AZM 84.98, TVD 6871.75
-7247 Top A Marl Formation; 6886' TVD
-7270 WT 9, VIS 48
-7300 WT 9, VIS 48
-7326 INC 35.48, AZM 93.75, TVD 6952.94
-7351 Top B2 Chalk Formation; 6972' TVD
-7390 WT 9.3, VIS 48
-7404 Top B Marl Formation; 7012' TVD
-7422 INC 45.16, AZM 94.9, TVD 7026.04
-7300 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; CHK: lt-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr bent; tr pyr; tr fos frag;
-7400 CHK: lt-med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr, v calc; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, v calc, mod arg, sl silty; tr pyr; mod forams;
-7500 CHK: med gy, sft-

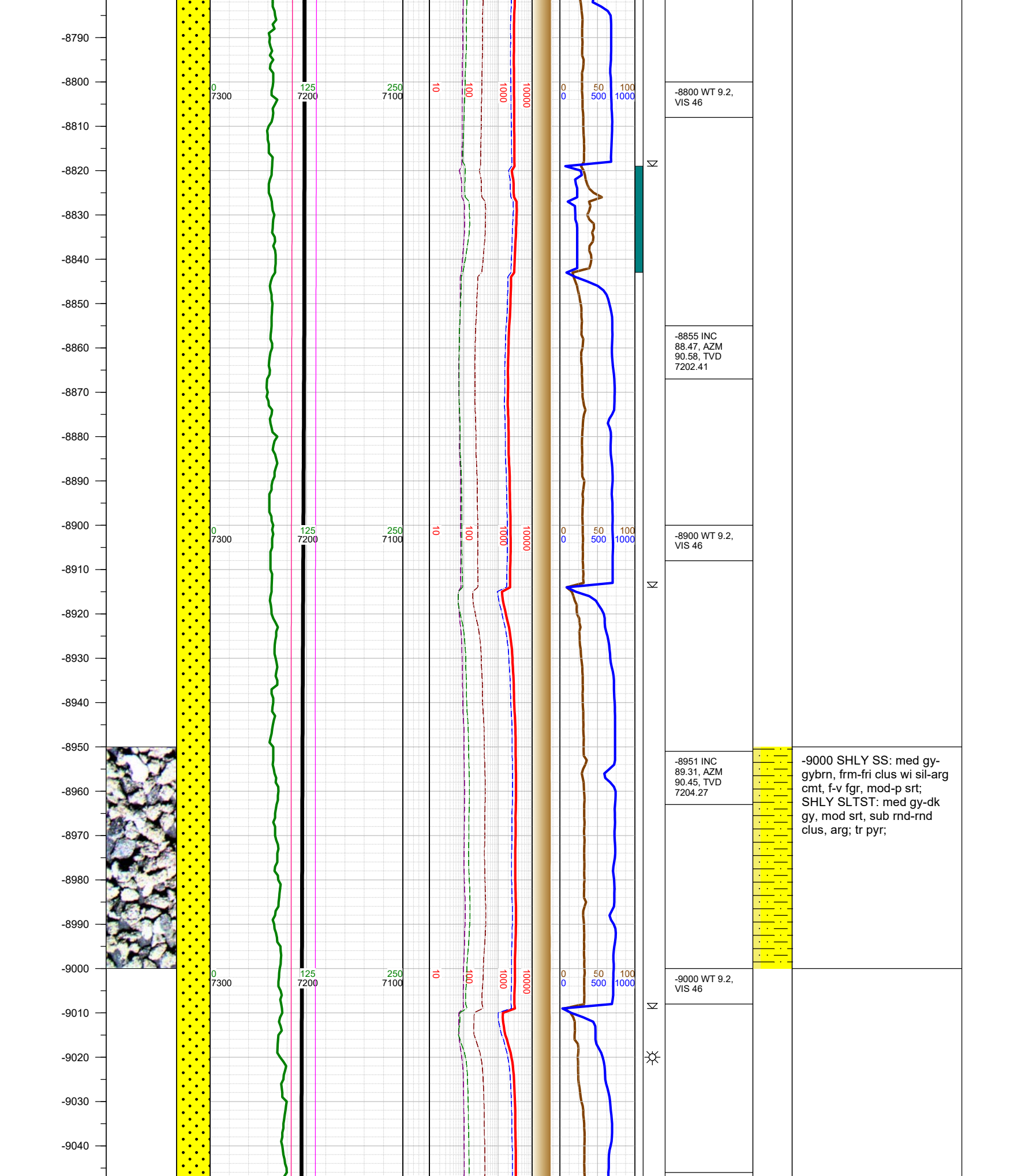

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sbfrm, sbblky, mot, v calc, rthy lstr; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; tr pyr; mod bent; tr fos frags; tr forams;
-7465 Top C Chalk Formation; 7053' TVD
-7500 WT 9.3, VIS 48
-7517 INC 57.45, AZM 89.87, TVD 7085.35
-7553 Top C Marl Formation; 7102' TVD
-7600 MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; CHK: med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr; tr pyr;
-7600 WT 9.3, VIS 47
-7613 INC 65.97, AZM 87.8, TVD 7130.81
-7641 Top Ft. Hays Formation; 7141' TVD
-7700 LS: lt crm-lt gy, subblky-subplty, sl wxy, v calc; SHLY SLTST: med-dk gy, frm, blky-sub blky, gr-rthy, sl calc; MARL: dk gy-blk, sbblky-sbplty, sft-sbfrm, mod calc, sl arg; CHK: med gy, sft-sbfrm, sbblky, mot, v calc, rthy lstr;
-7700 WT 9.3, VIS 46
-7709 INC 72.29, AZM 88.42, TVD 7164.99

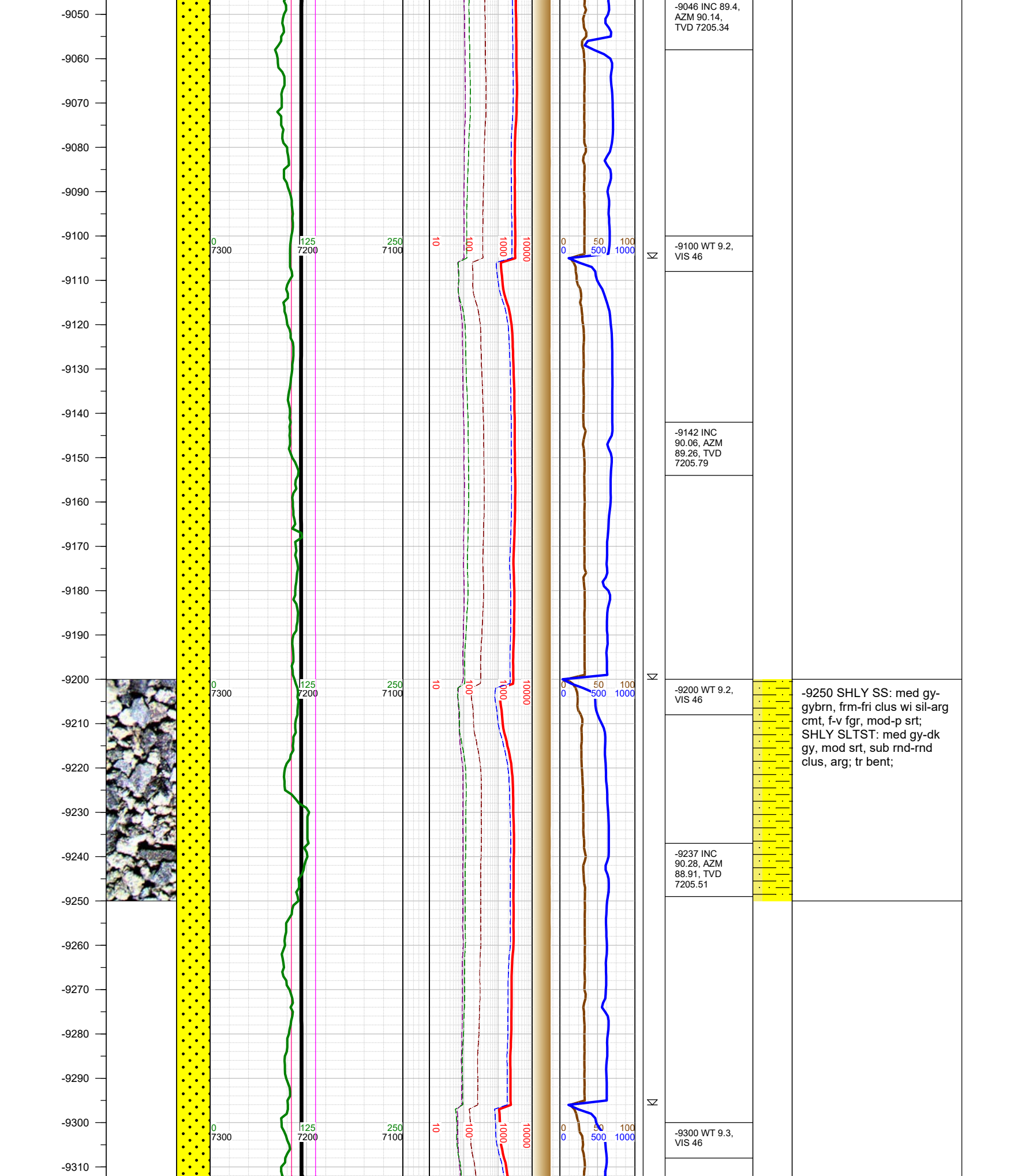

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-7790 WT 9.3, VIS 46
-7804 INC 85.64, AZM 86.04, TVD 7183.13
-7809 Reached LP of 7809' MD, 7184' TVD at 0430 hrs on 1/19/2019 and immediately began drilling the lateral.
-7809 Change TVD Scale
-7834 Fault: 7' down-throw; stayed in Ft. Hays
-7900 INC 85.68, AZM 90.01, TVD 7190.4
-7920 WT 9.3, VIS 46
-7938 Top Payzone - Codell Formation; 7193' TVD
-7800 LS: lt crm-lt gy, subblky-subplty, sl wxy, v calc; SHLY SLTST: med-dk gy, frm, blky-sub blky, gr-rthy, sl calc;
-8000 SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; LS: lt crm-lt gy, subblky-subplty, sl wxy, v calc; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg; tr pyr;

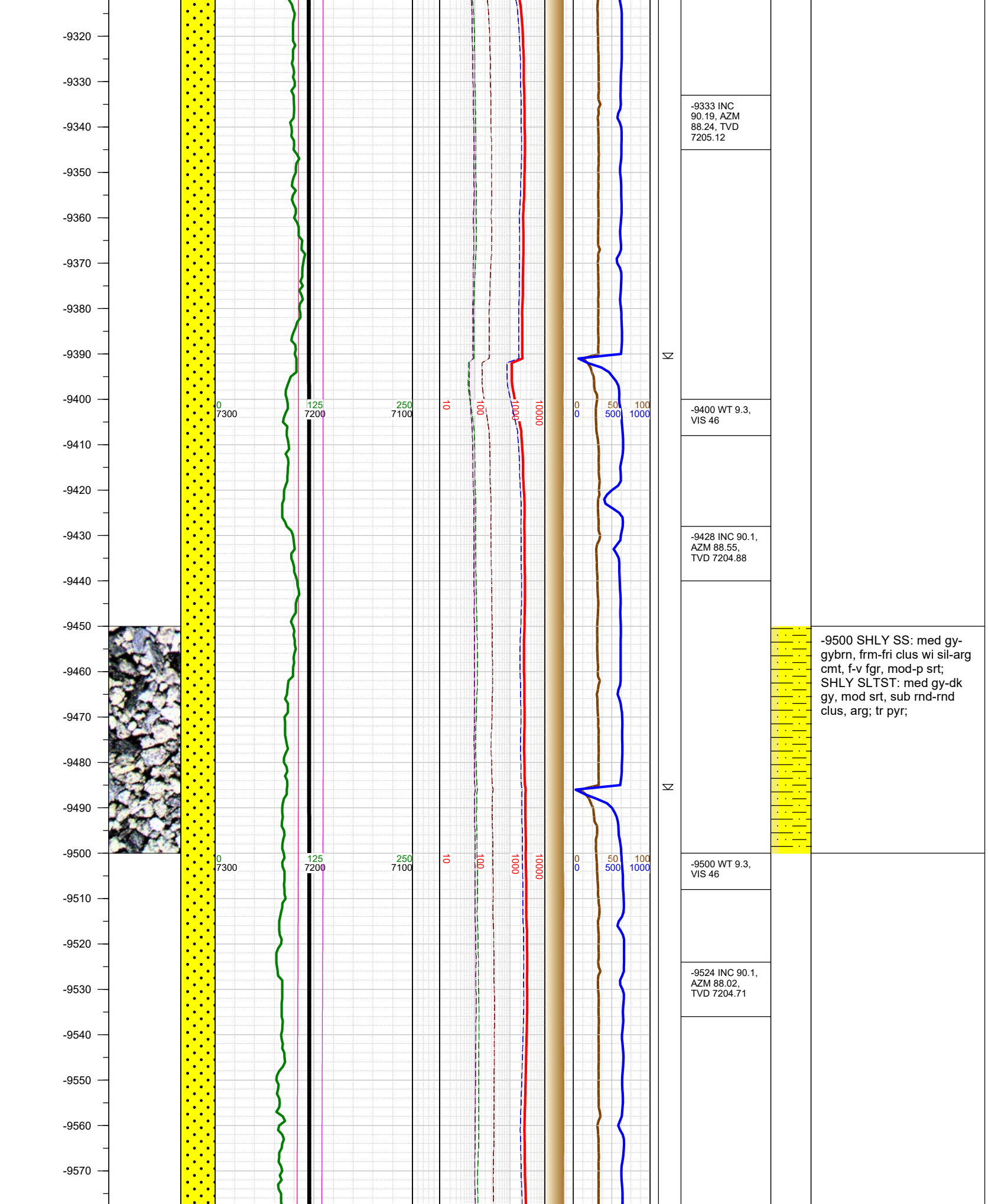

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KI
-7995 INC
86.26, AZM
88.33, TVD
7197.08
-8020 WT 9.3,
VIS 46
-8091 INC
88.82, AZM
90.45, TVD
7201.2
-8110 WT 9.3,
VIS 46
-8187 INC
90.19, AZM
88.95, TVD
7202.03
-8200 WT 9.3,
VIS 46
-8250 SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg; tr pyr;

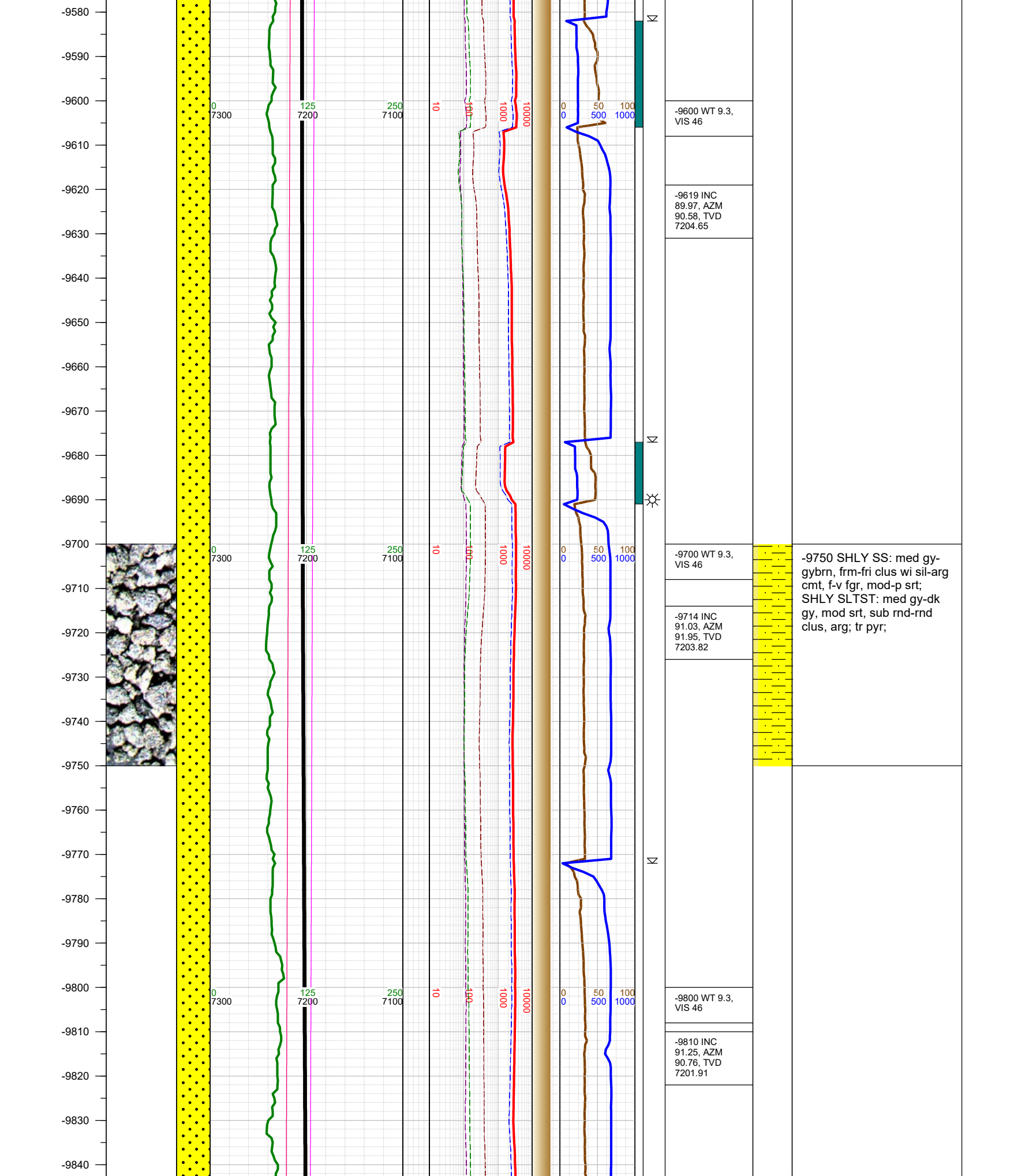

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-8282 INC
91.25, AZM
89.08, TVD
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-8300 WT 9.3,
VIS 46
-8378 INC
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-8400 WT 9.3,
VIS 46
-8473 INC
88.73, AZM
89.96, TVD
7200.46
-8500 WT 9.2,
VIS 46
-8500 SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg; tr pyr;

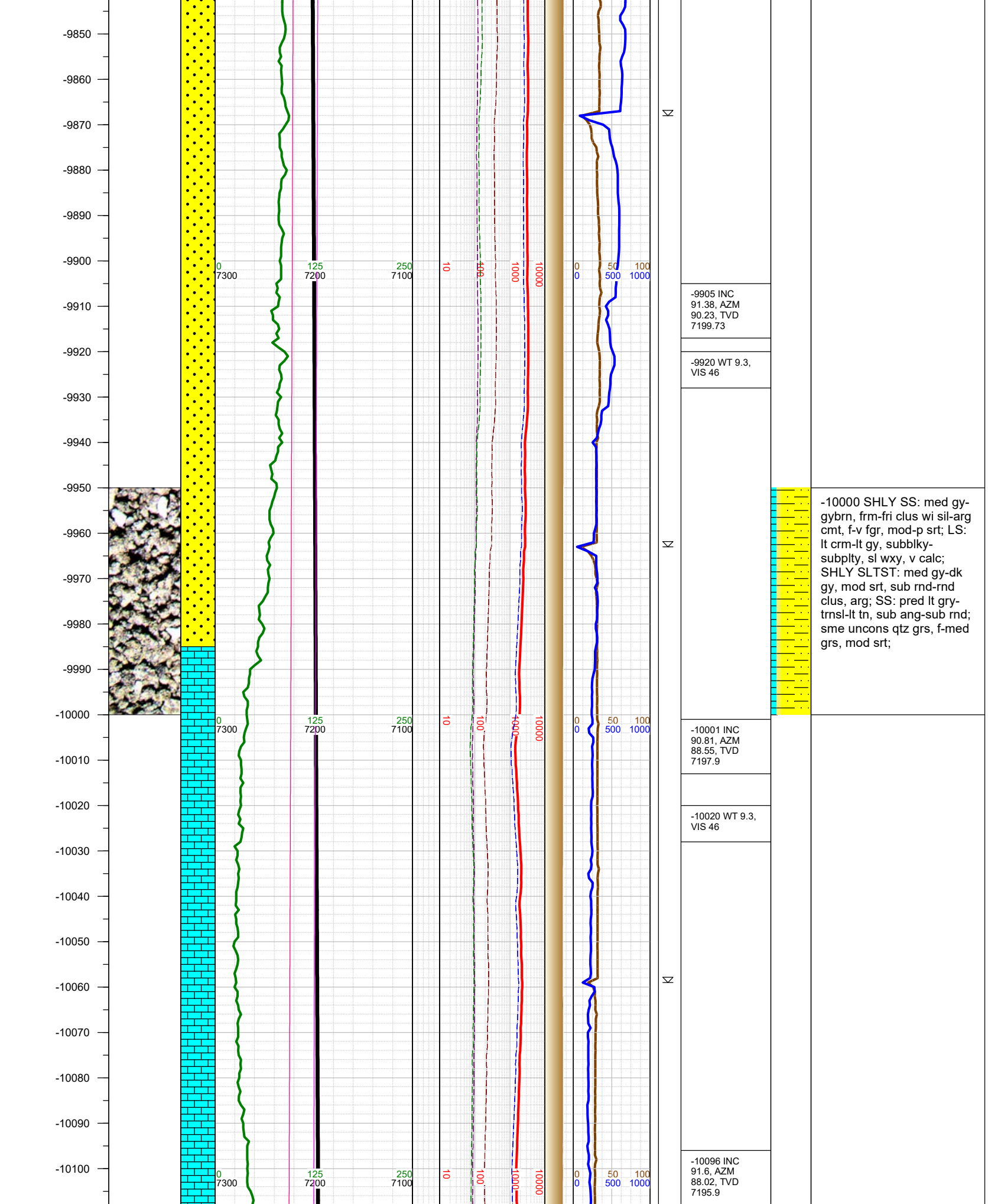

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-8600 WT 9.2,
VIS 46
-8664 INC
90.15, AZM
90.58, TVD
7202.98
-8700 WT 9.2,
VIS 46
-8760 INC
91.03, AZM
91.77, TVD
7202
-8750 SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg; tr pyr;

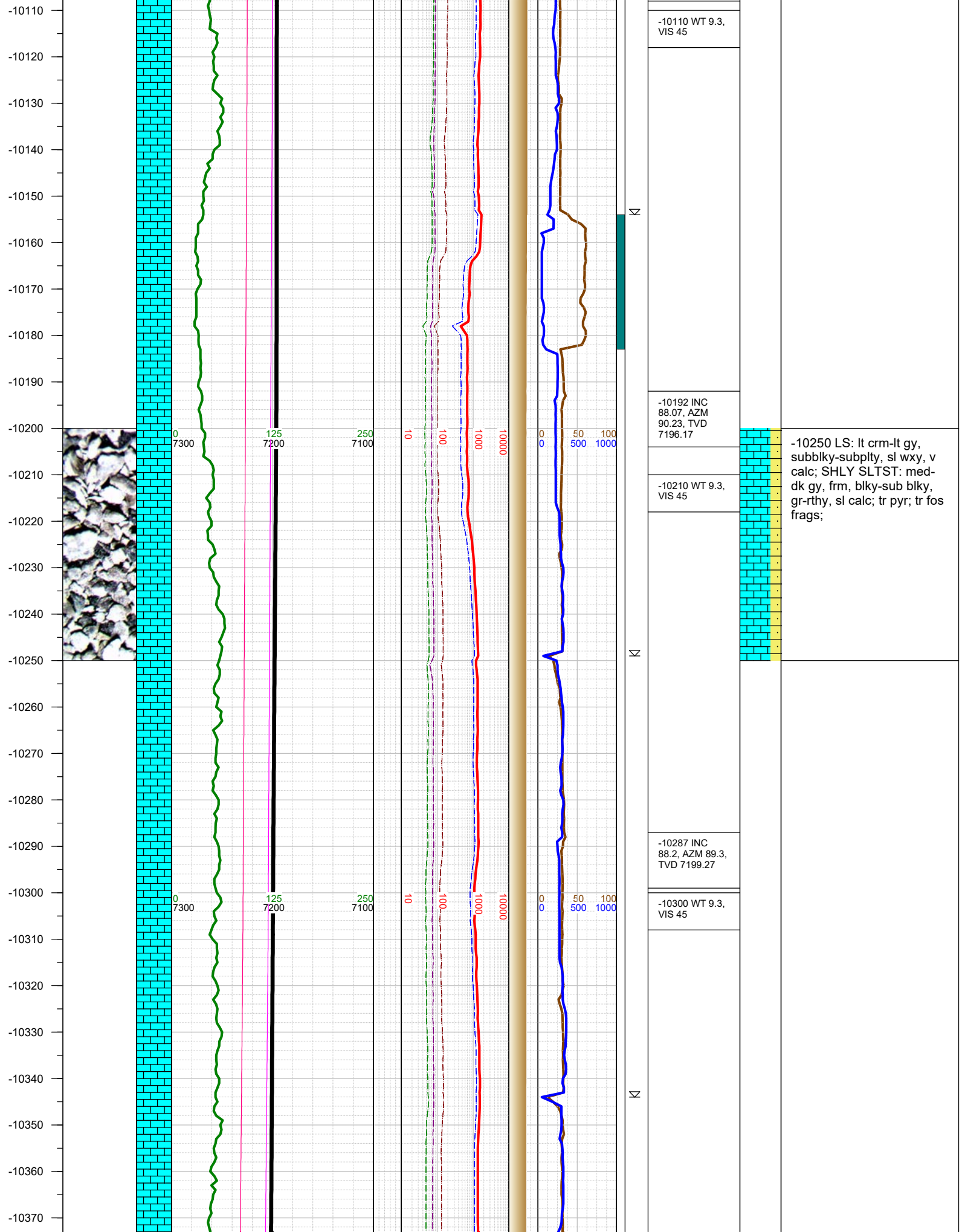

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-8800 WT 9.2, VIS 46
-8855 INC 88.47, AZM 90.58, TVD 7202.41
-8900 WT 9.2, VIS 46
-8951 INC 89.31, AZM 90.45, TVD 7204.27
-9000 SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg; tr pyr;
-9000 WT 9.2, VIS 46


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-9046 INC 89.4, AZM 90.14, TVD 7205.34
-9100 WT 9.2, VIS 46
-9142 INC 90.06, AZM 89.26, TVD 7205.79
-9200 WT 9.2, VIS 46
-9237 INC 90.28, AZM 88.91, TVD 7205.51
-9300 WT 9.3, VIS 46
-9250 SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg; tr bent;


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-9333 INC 90.19, AZM 88.24, TVD 7205.12
-9400 WT 9.3, VIS 46
-9428 INC 90.1, AZM 88.55, TVD 7204.88
-9500 WT 9.3, VIS 46
-9524 INC 90.1, AZM 88.02, TVD 7204.71
-9500 SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg; tr pyr;


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-9600 WT 9.3, VIS 46
-9619 INC 89.97, AZM 90.58, TVD 7204.65
-9700 WT 9.3, VIS 46
-9714 INC 91.03, AZM 91.95, TVD 7203.82
-9750 SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg; tr pyr;
-9800 WT 9.3, VIS 46
-9810 INC 91.25, AZM 90.76, TVD 7201.91


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-9905 INC 91.38, AZM 90.23, TVD 7199.73
-9920 WT 9.3, VIS 46
-10000 SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; LS: lt crm-lt gy, subblky-subplty, sl wxy, v calc; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg; SS: pred lt gry-trnsl-lt tn, sub ang-sub rnd; sme uncons qtz grs, f-med grs, mod srt;
-10001 INC 90.81, AZM 88.55, TVD 7197.9
-10020 WT 9.3, VIS 46
-10096 INC 91.6, AZM 88.02, TVD 7195.9


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-10110 WT 9.3, VIS 45
-10192 INC 88.07, AZM 90.23, TVD 7196.17
-10210 WT 9.3, VIS 45
-10287 INC 88.2, AZM 89.3, TVD 7199.27
-10300 WT 9.3, VIS 45
-10250 LS: lt crm-lt gy, subblky-subplty, sl wxy, v calc; SHLY SLTST: med-dk gy, frm, blky-sub blky, gr-rthy, sl calc; tr pyr; tr fos frags;

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-10383 INC 88.78, AZM 89.21, TVD 7201.8

-10400 WT 9.3, VIS 45

-10478 INC 91.87, AZM 91.28, TVD 7201.26

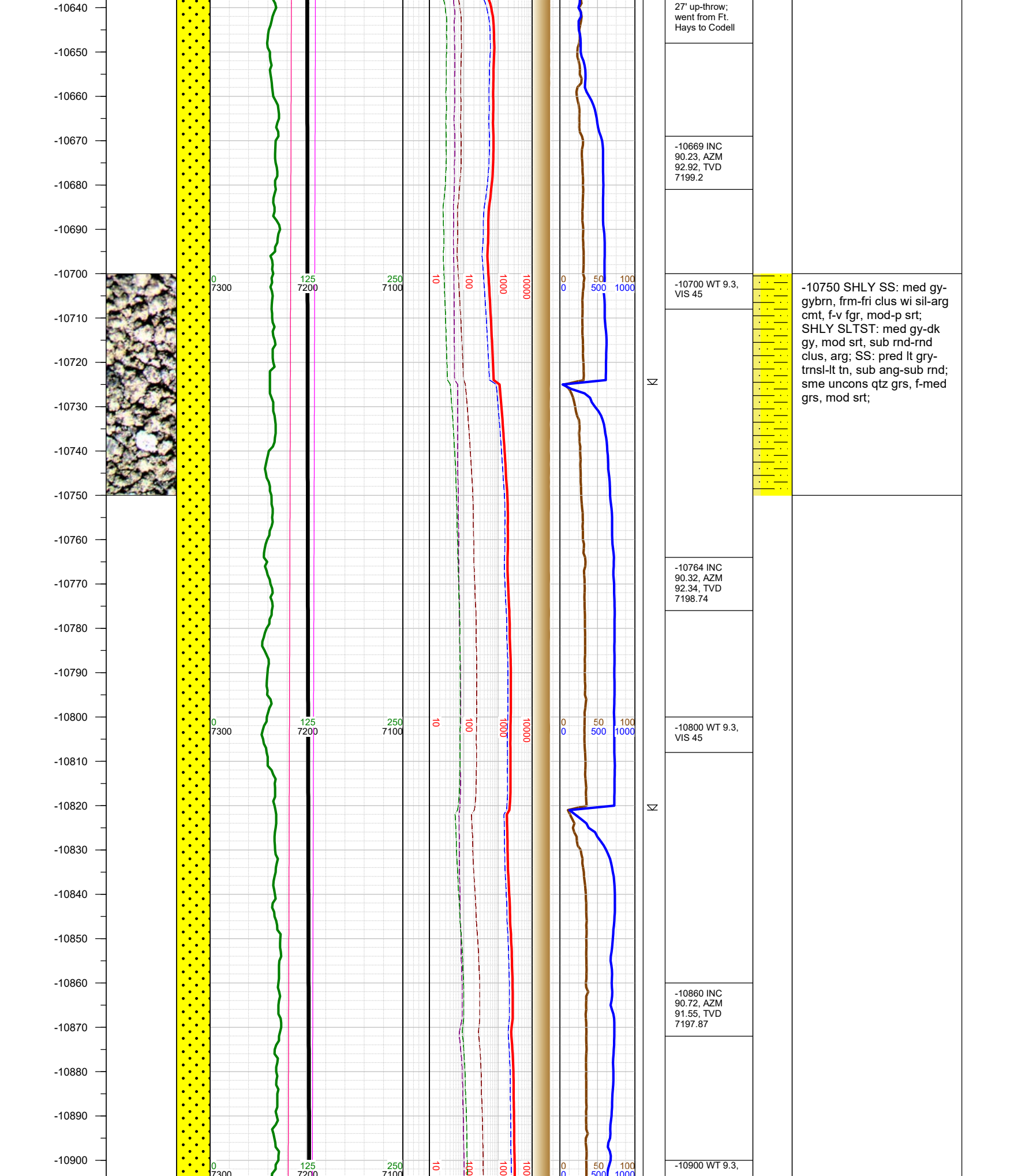
-10500 WT 9.3, VIS 45

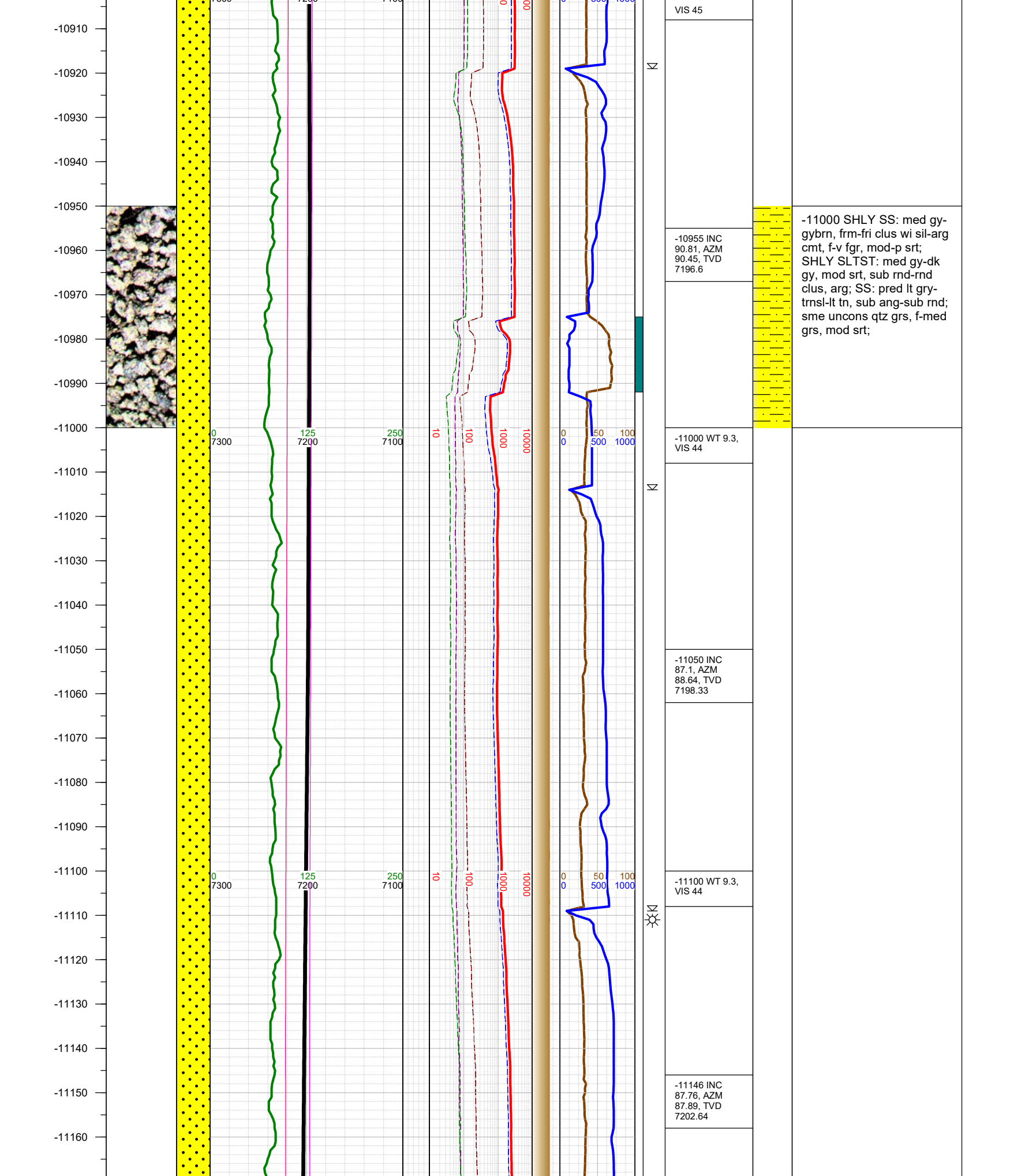
-10573 INC 90.19, AZM 92.61, TVD 7199.55

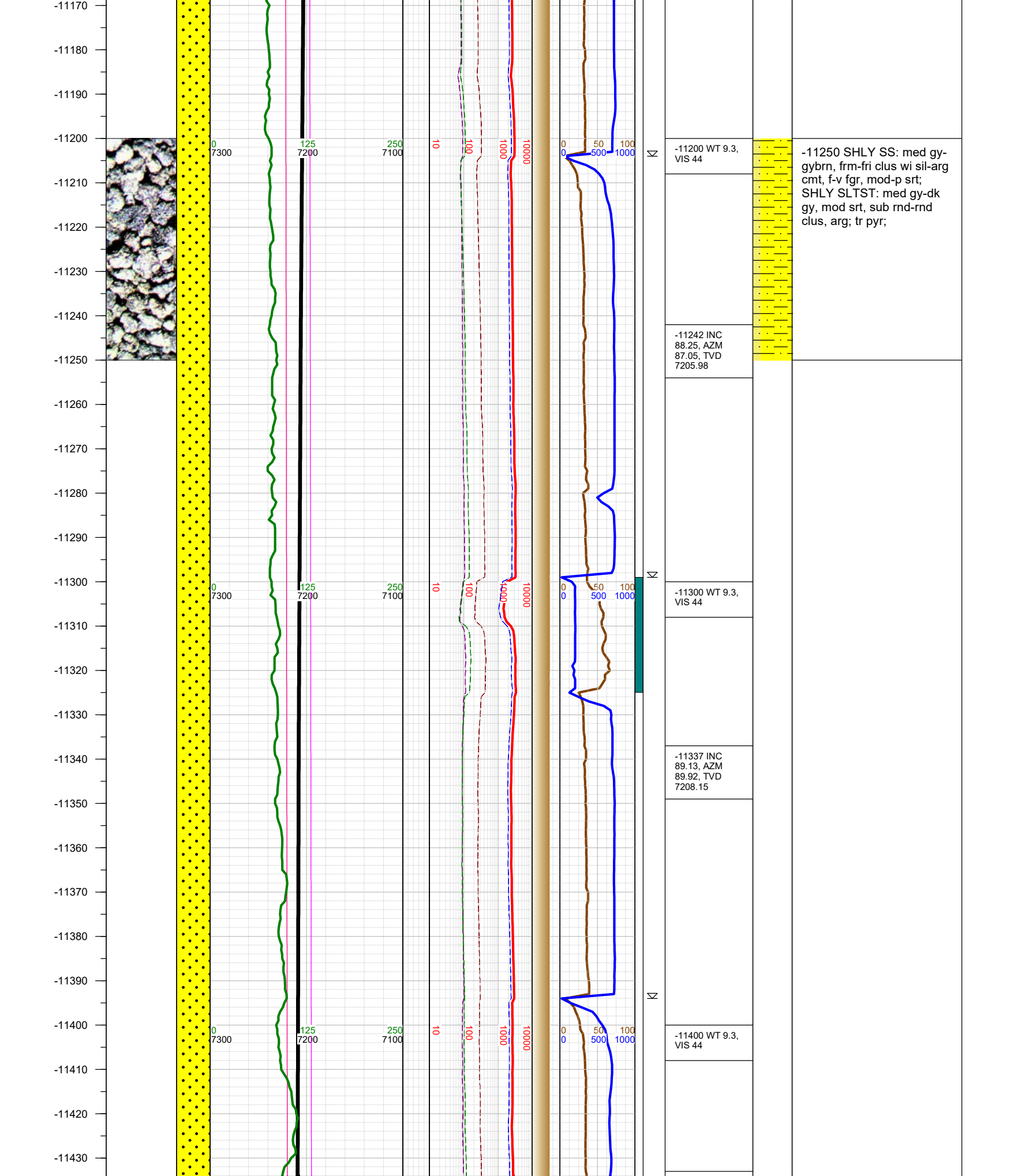
-10600 WT 9.3, VIS 45

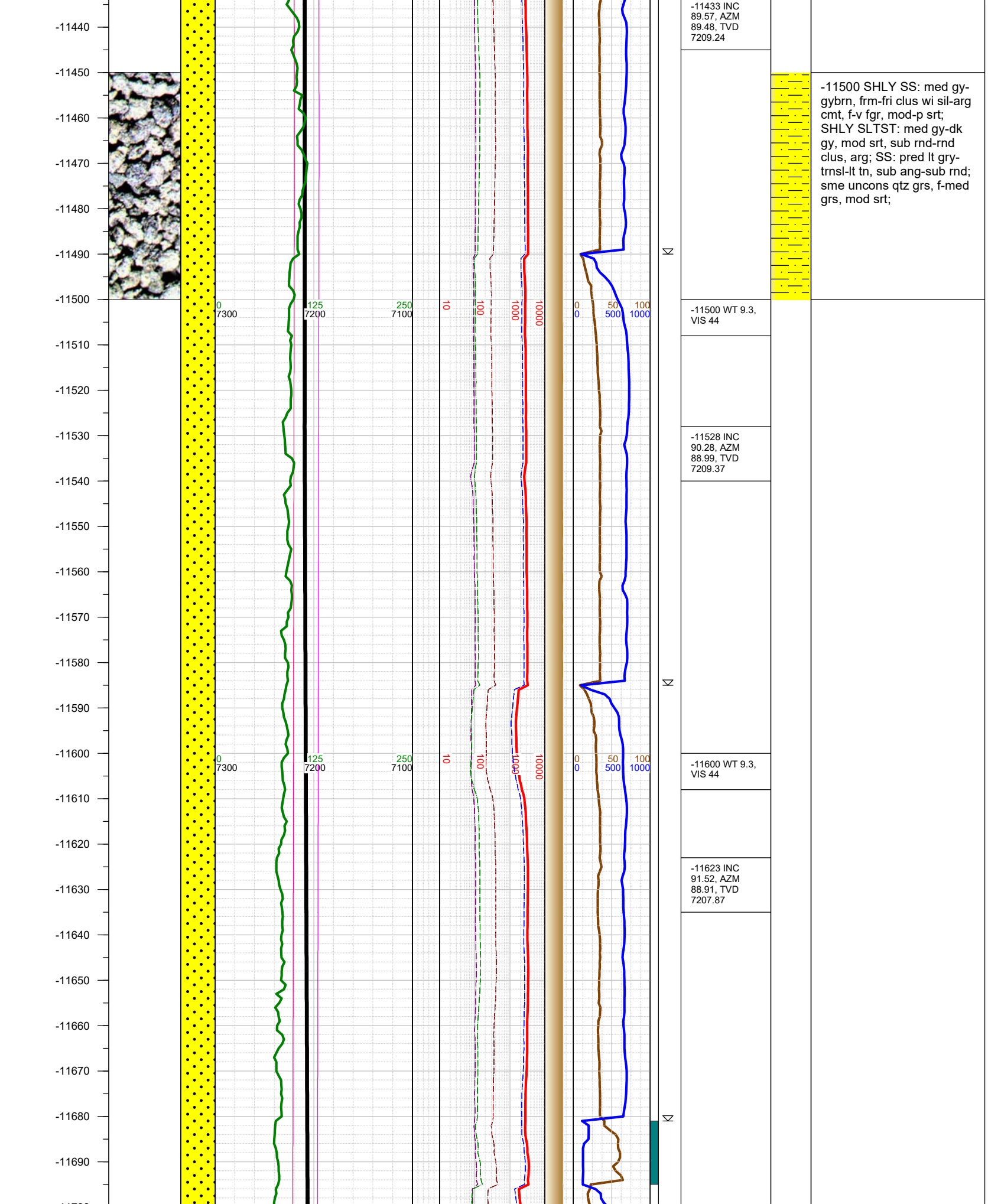
-10634 Fault:

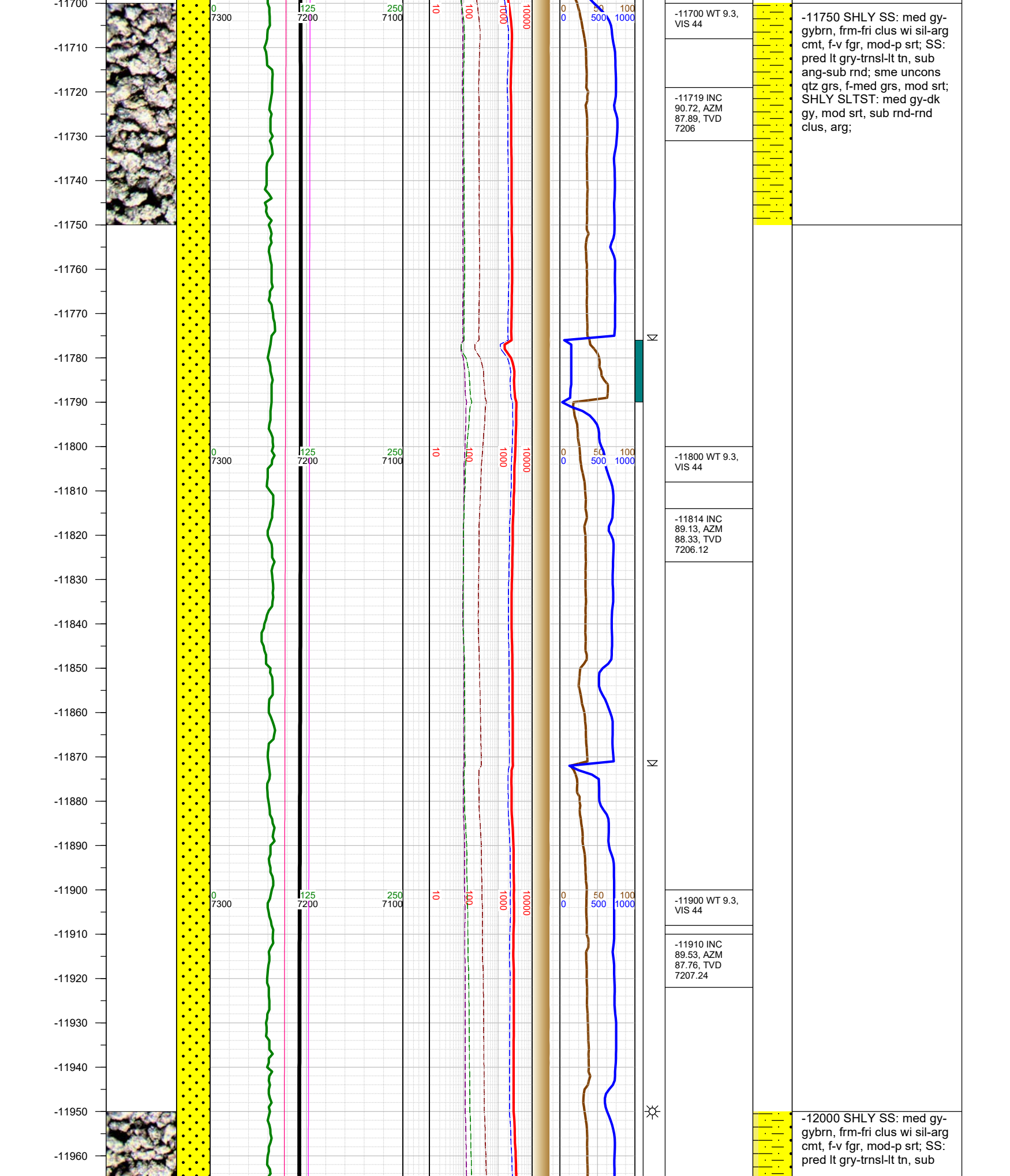
-10500 LS: lt crm-lt gy, subblky-subplty, sl wxy, v calc; SHLY SLTST: med-dk gy, frm, blky-sub blky, gr-rthy, sl calc; tr pyr; tr fos frags;

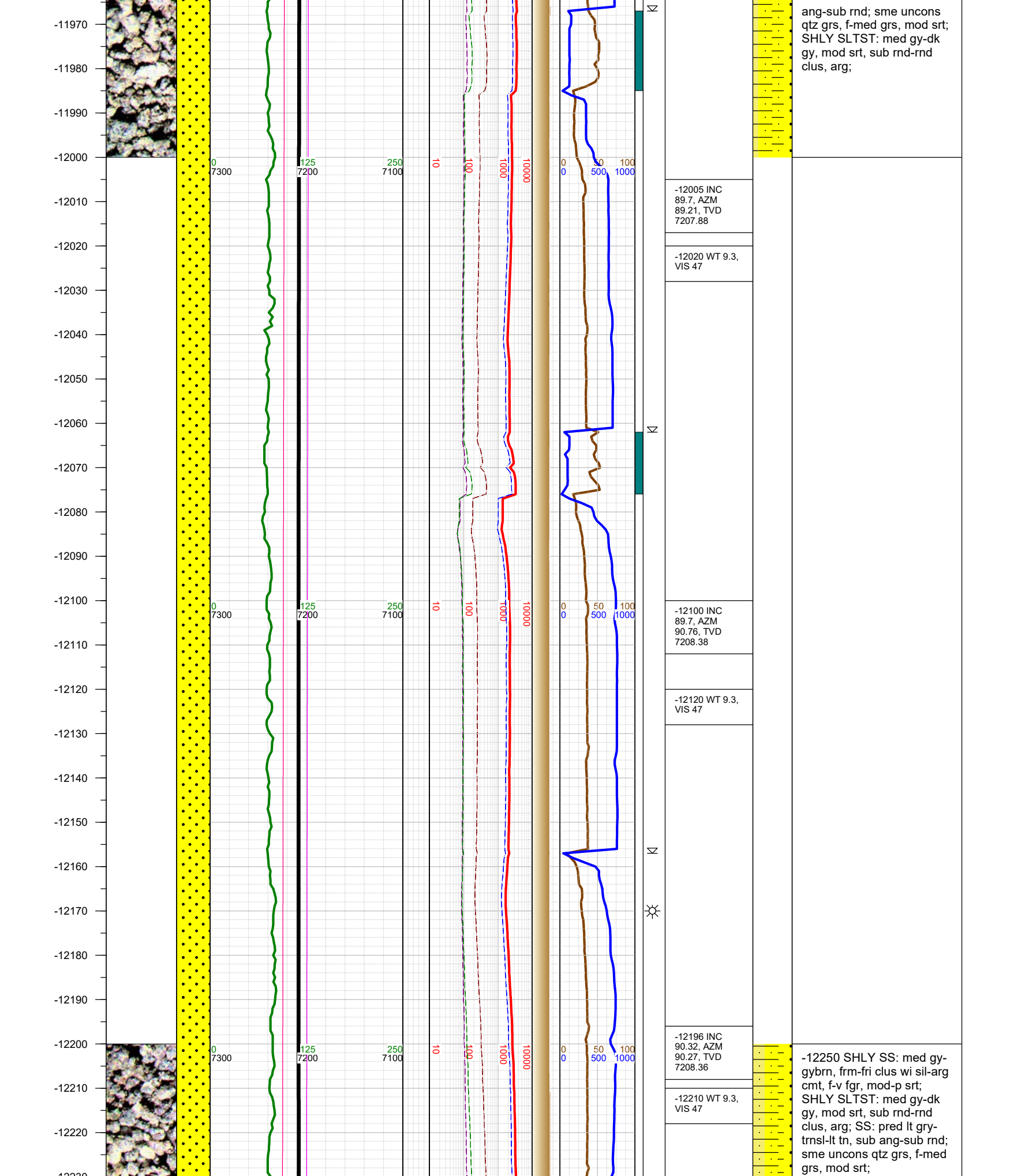

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27' up-throw; went from Ft. Hays to Codell
-10669 INC 90.23, AZM 92.92, TVD 7199.2
-10700 WT 9.3, VIS 45
-10750 SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg; SS: pred lt gry-trnsl-lt tn, sub ang-sub rnd; sme uncons qtz grs, f-med grs, mod srt;
-10764 INC 90.32, AZM 92.34, TVD 7198.74
-10800 WT 9.3, VIS 45
-10860 INC 90.72, AZM 91.55, TVD 7197.87
-10900 WT 9.3,

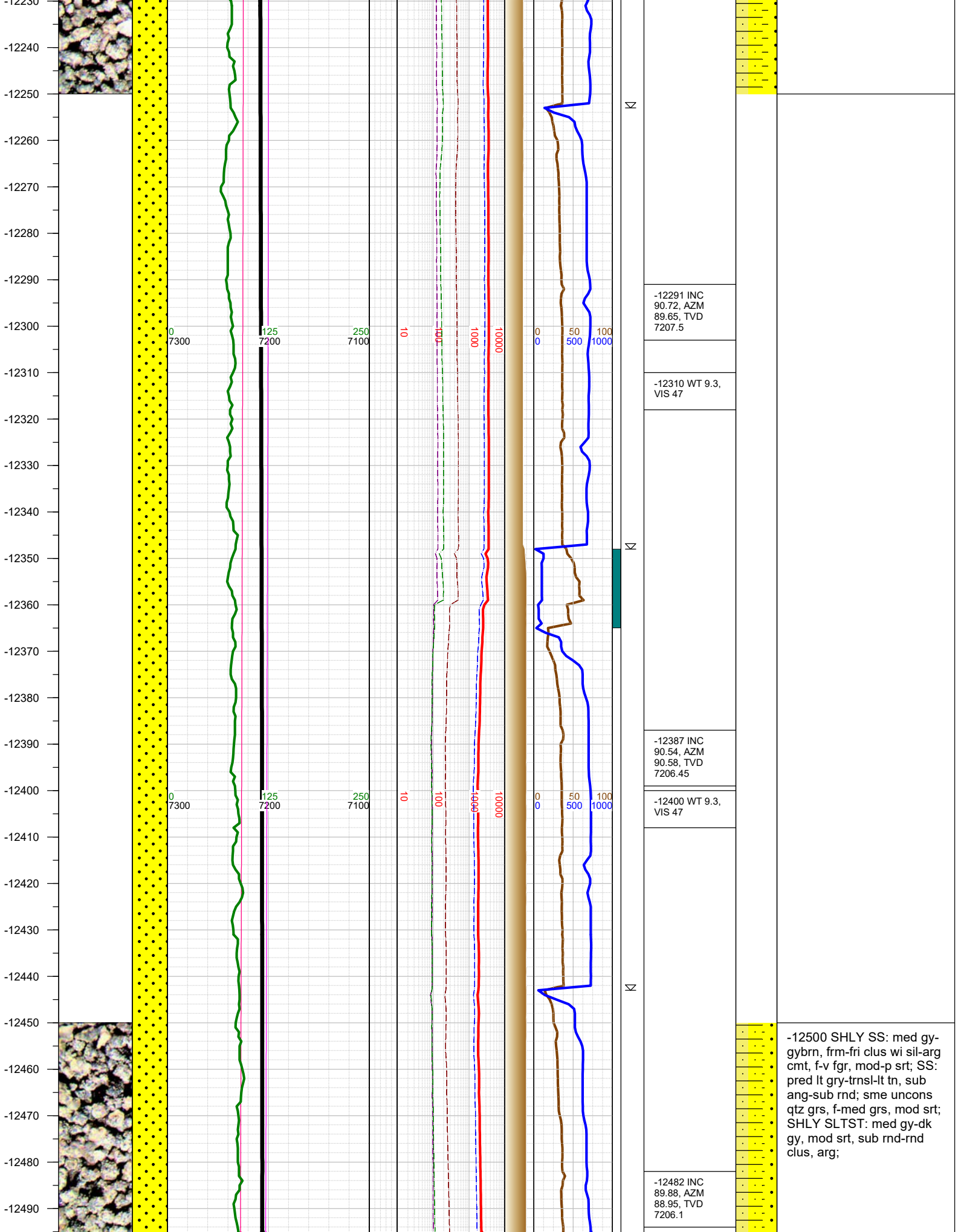

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VIS 45
-10955 INC 90.81, AZM 90.45, TVD 7196.6
-11000 WT 9.3, VIS 44
-11050 INC 87.1, AZM 88.64, TVD 7198.33
-11100 WT 9.3, VIS 44
-11146 INC 87.76, AZM 87.89, TVD 7202.64
-11000 SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg; SS: pred lt gry-trnsl-lt tn, sub ang-sub rnd; sme uncons qtz grs, f-med grs, mod srt;

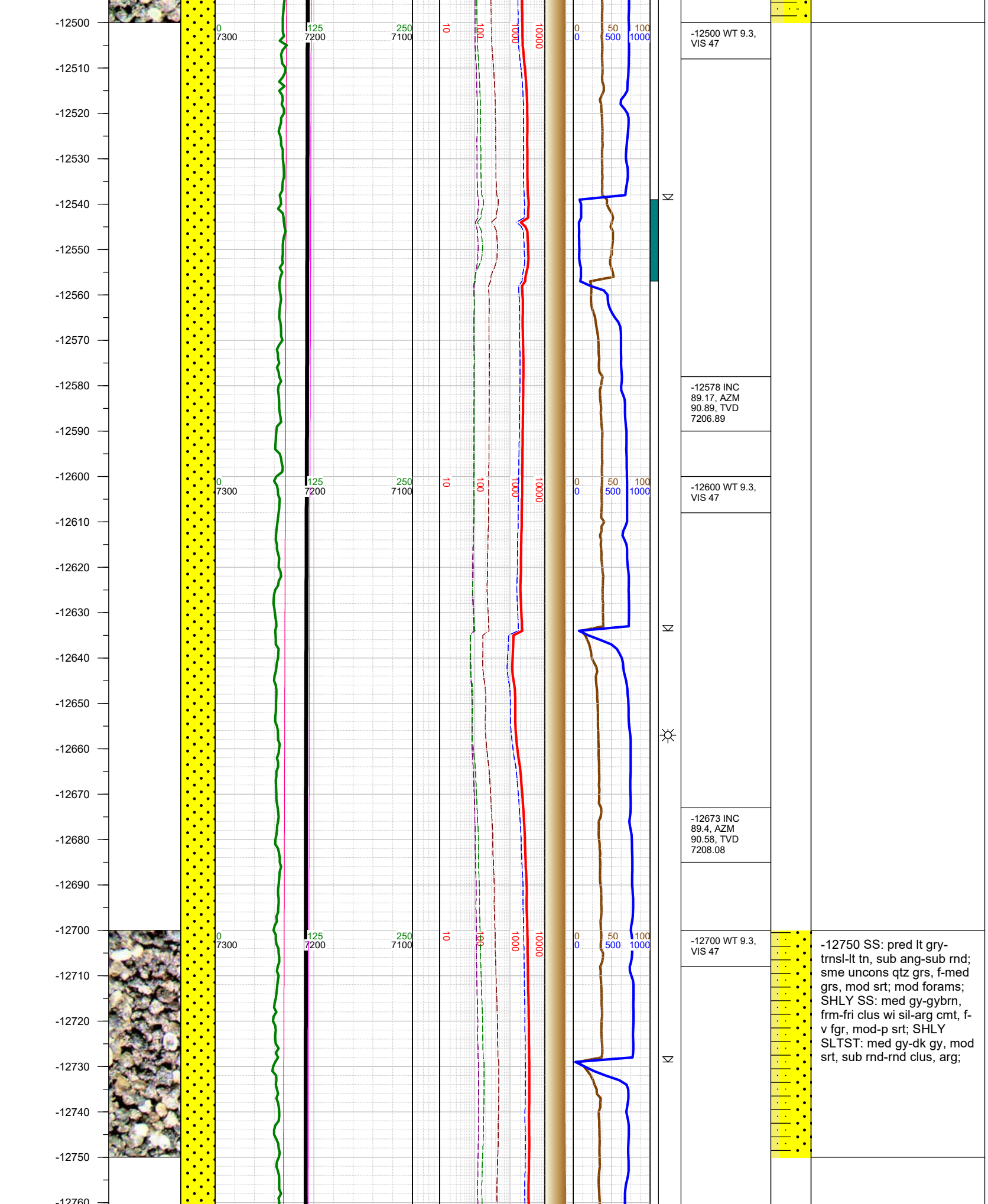

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-11200 WT 9.3, VIS 44
-11242 INC 88.25, AZM 87.05, TVD 7205.98
-11300 WT 9.3, VIS 44
-11337 INC 89.13, AZM 89.92, TVD 7208.15
-11400 WT 9.3, VIS 44
-11250 SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg; tr pyr;

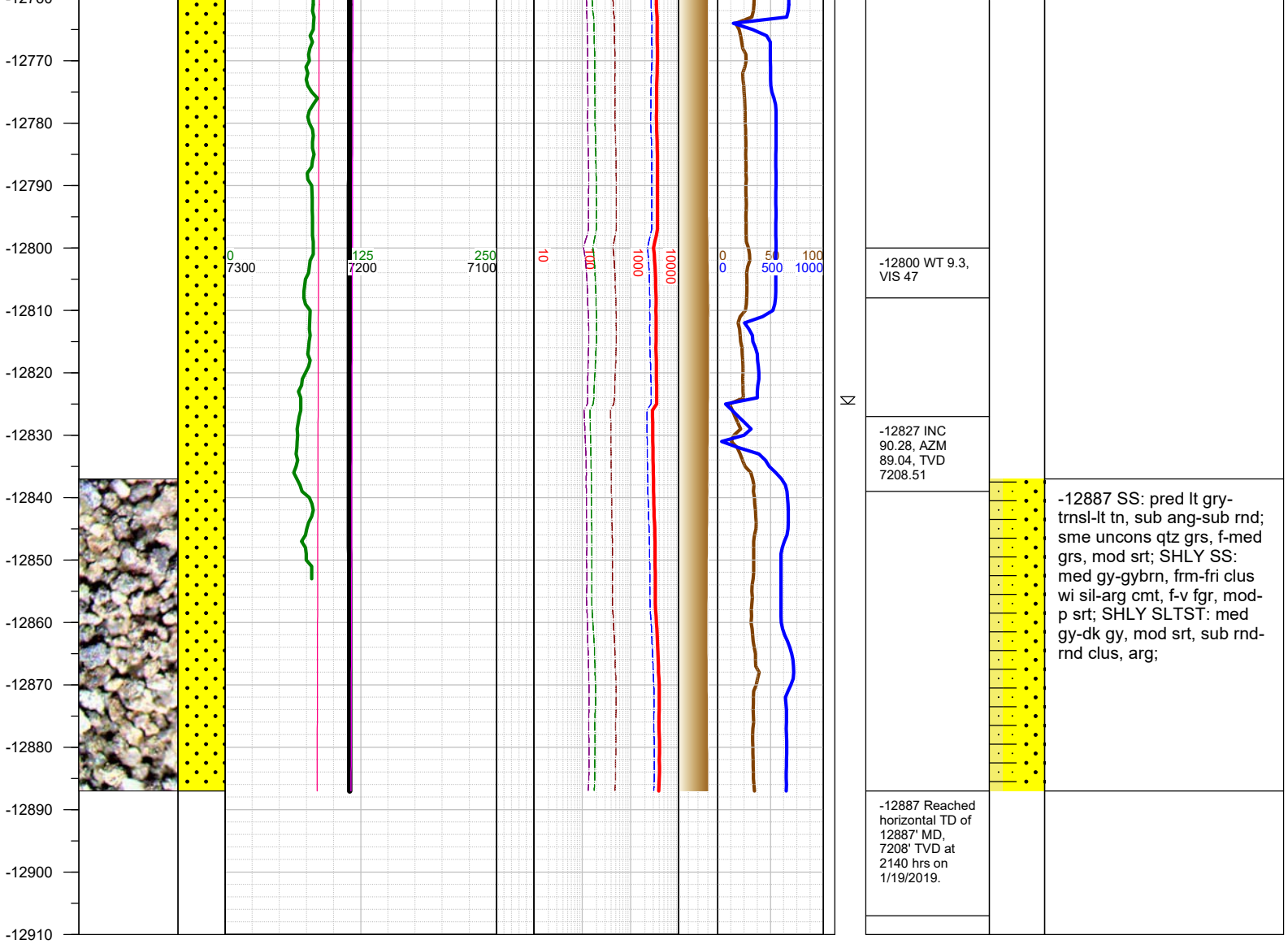

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-11433 INC 89.57, AZM 89.48, TVD 7209.24
-11500 SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg; SS: pred lt gry-trnsl-lt tn, sub ang-sub rnd; sme uncons qtz grs, f-med grs, mod srt;
-11500 WT 9.3, VIS 44
-11528 INC 90.28, AZM 88.99, TVD 7209.37
-11600 WT 9.3, VIS 44
-11623 INC 91.52, AZM 88.91, TVD 7207.87


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-11700 WT 9.3, VIS 44
-11719 INC 90.72, AZM 87.89, TVD 7206
-11800 WT 9.3, VIS 44
-11814 INC 89.13, AZM 88.33, TVD 7206.12
-11900 WT 9.3, VIS 44
-11910 INC 89.53, AZM 87.76, TVD 7207.24
-11750 SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; SS: pred lt gry-trnsl-lt tn, sub ang-sub rnd; sme uncons qtz grs, f-med grs, mod srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg;
-12000 SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; SS: pred lt gry-trnsl-lt tn, sub


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-12005 INC 89.7, AZM 89.21, TVD 7207.88
-12020 WT 9.3, VIS 47
-12100 INC 89.7, AZM 90.76, TVD 7208.38
-12120 WT 9.3, VIS 47
-12196 INC 90.32, AZM 90.27, TVD 7208.36
-12210 WT 9.3, VIS 47
ang-sub rnd; sme uncons qtz grs, f-med grs, mod srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg;
-12250 SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg; SS: pred lt gry-trnsl-lt tn, sub ang-sub rnd; sme uncons qtz grs, f-med grs, mod srt;


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-12291 INC 90.72, AZM 89.65, TVD 7207.5
-12310 WT 9.3, VIS 47
-12387 INC 90.54, AZM 90.58, TVD 7206.45
-12400 WT 9.3, VIS 47
-12482 INC 89.88, AZM 88.95, TVD 7206.1
-12500 SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; SS: pred lt gry-trnsl-lt tn, sub ang-sub rnd; sme uncons qtz grs, f-med grs, mod srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg;


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-12500 WT 9.3, VIS 47
-12578 INC 89.17, AZM 90.89, TVD 7206.89
-12600 WT 9.3, VIS 47
-12673 INC 89.4, AZM 90.58, TVD 7208.08
-12700 WT 9.3, VIS 47
-12750 SS: pred lt gry-trnsl-lt tn, sub ang-sub rnd; sme uncons qtz grs, f-med grs, mod srt; mod forams; SHLY SS: med gy-gybrn, frm-fri clus wi sil-arg cmt, f-v fgr, mod-p srt; SHLY SLTST: med gy-dk gy, mod srt, sub rnd-rnd clus, arg;



TOTAL DEPTH = 12887'

Thank you for using Earth Science Agency