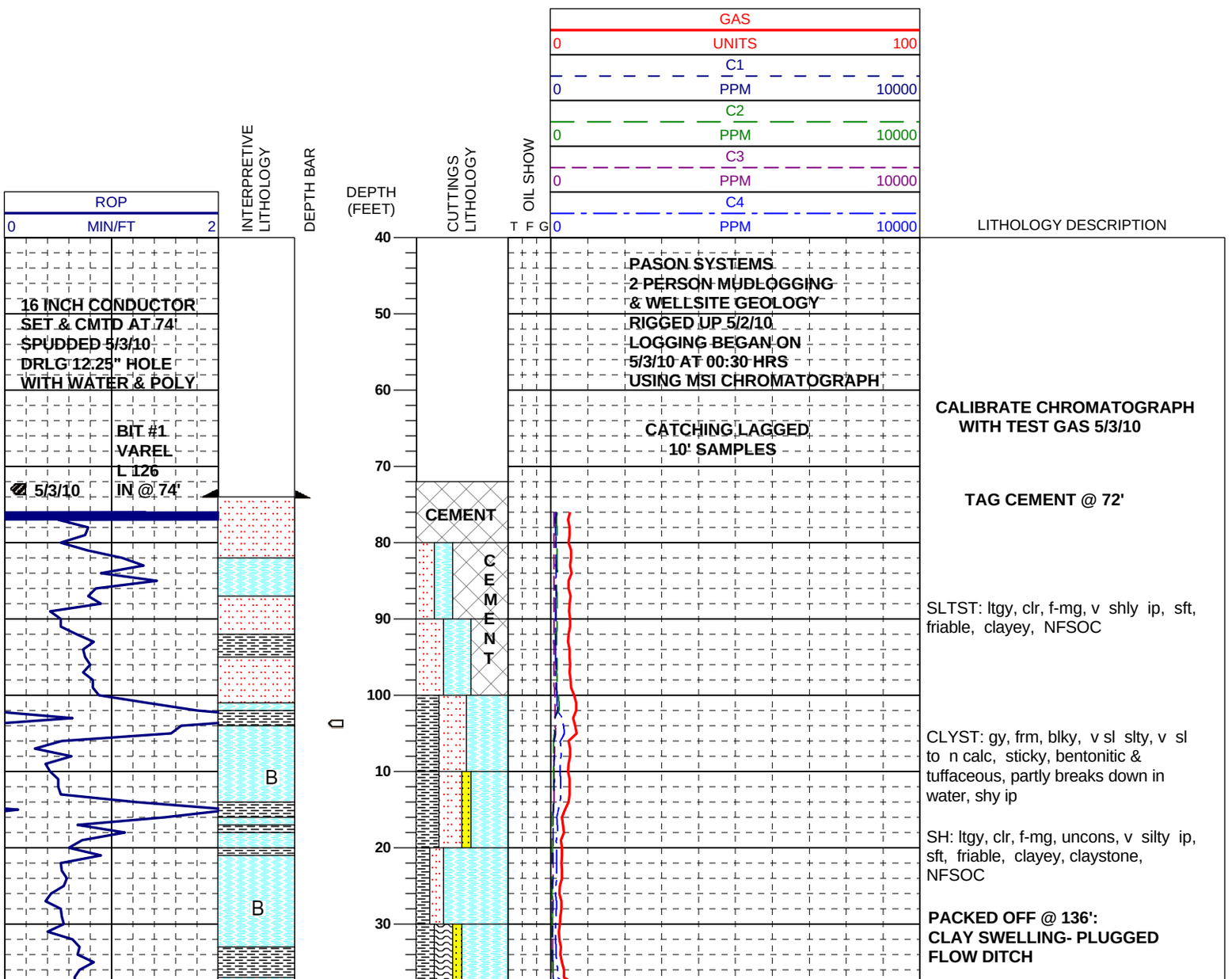
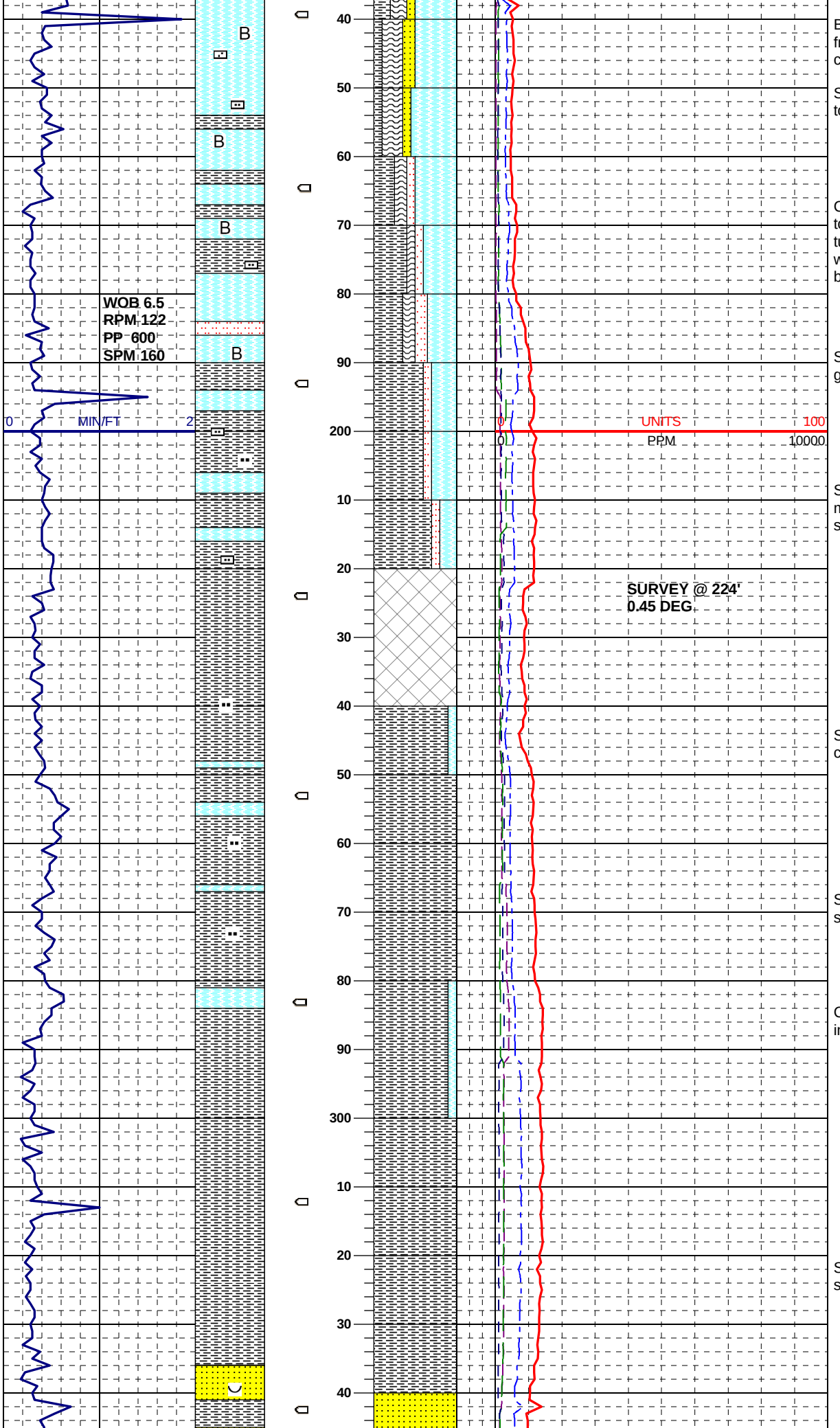
LOG created using LPLOT VH Version 3.0, May 06, 2010, Copyright (C) 1999-2009 Pason Systems Corp.

OPERATOR:	**BRIDGE ENERGY, LLC**
WELL:	**SCHWARZ # 1-10**
LOCATION:	**NE NE, SEC. 10, T 8 N, R 2 W**
COUNTY:	**PAYETTE**
STATE:	**IDAHO**
SPOT:	**623' FNL, 1183' FEL,**
ELEVATION:	**GL: 2495', KB 2507'**
FIELD:	**RAYMER PROSPECT**
SPUD DATE:	**MAY 3, 2010**
TD DATE:	**MAY 6, 2010**
DATES LOGGED:	**MAY 3, 2010 TO MAY 6, 2010**
DEPTHS LOGGED:	**74' TO 2602'**
LOGGERS:	**HAL SCHMIDT, MAX MODERN**
DRILLING FLUID:	**FLO-PRO NT**
DRILLING RIG:	**ENSIGN #516**
API:	
LOG TYPE:	**MUDLOG**
SCALE:	**1:240 (5 inches per 100 feet)**
REMARKS:	





BENT: gy - lt gy, s&p, blk spec, sft - fri, scat uncons sd frag - occ w consol, v clayey before wash

SS: ltgy, vfg, slty,sft, fri, clayey, grdg to siltstn ip, non calc,

CLYST: gy, frm, blky, v sl slty, v sl to n calc, sticky, bentonitic & tuffaceous, partly breaks down in water, shy ip, silty, drills up into clay balls

SLTSTN: ltgy, blky, sft, fri, clayey, grading to shale, n-calc

SH: mgy, blky-sbblky, frm, sft ip, micro blk spks common, non-calc, slty

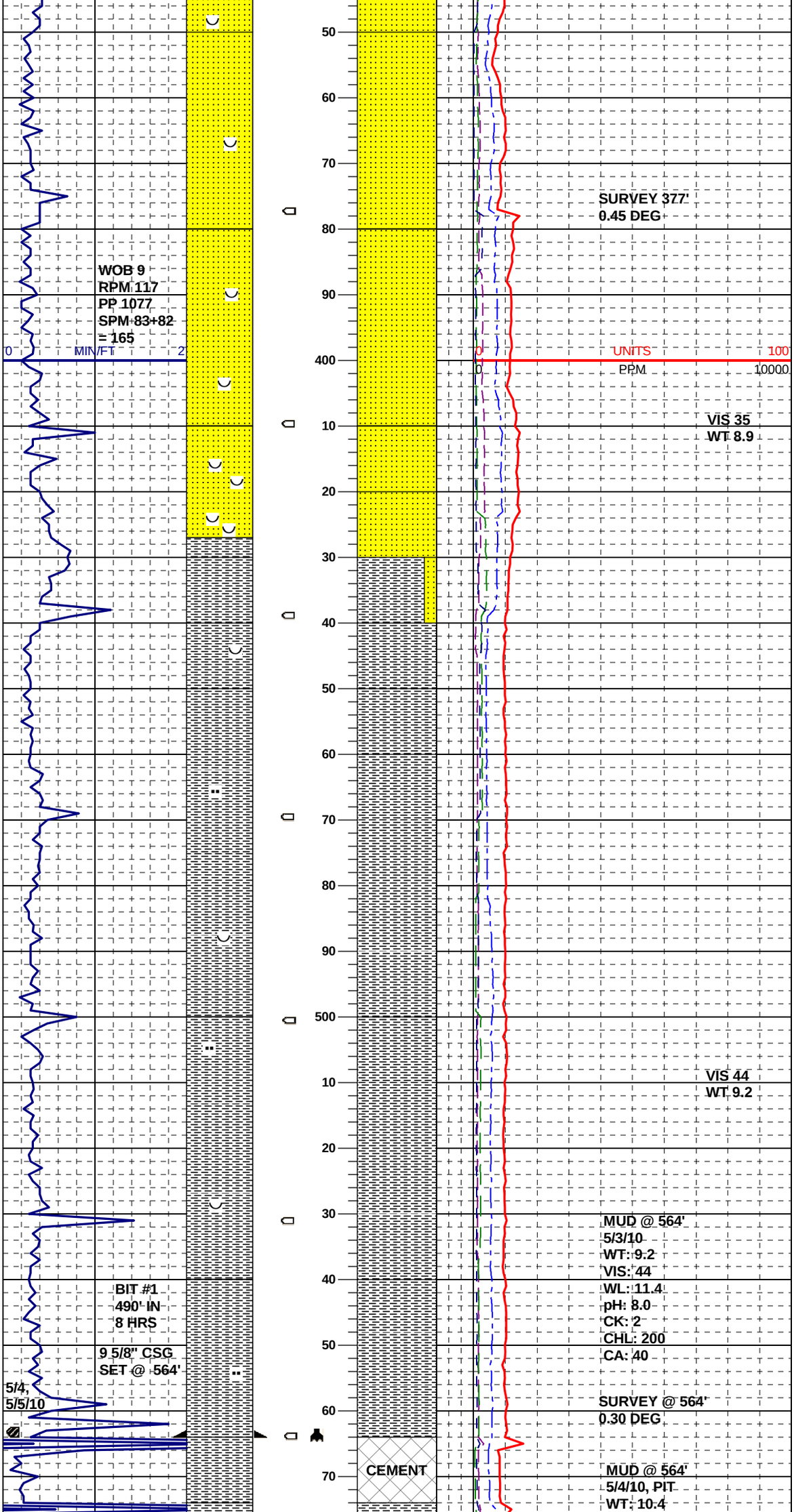
NO SPL CAUGHT

SH: ltgy, frm, slty, scat blk spks, n-calc, grades to siltstone in part

SH: lt to mgy, blky-sbblky, frm, mod silty, n calc, micro blk spks common

CLYST: ltgy, sbblky, sft, breaks down in wtr, n calc, sticky

SH: lt to mgy, blky-sbblky, frm, mod silty, n calc, micro blk spks common



SS: clr, wh, m-very cse grained, clr & trnsl qtz, ang to sbang, n-calc, abnt blk, biotite mica flakes, unconsl loose grains, NFSOC

SS: clr, trnsl, wh, f to cse grained, ang -sbang, clr to trnsl qtz, a few wh op grains, feld?, sometimes trace of blk obsidian grains, abnt blk, biotite mica flakes, very rare green minerals

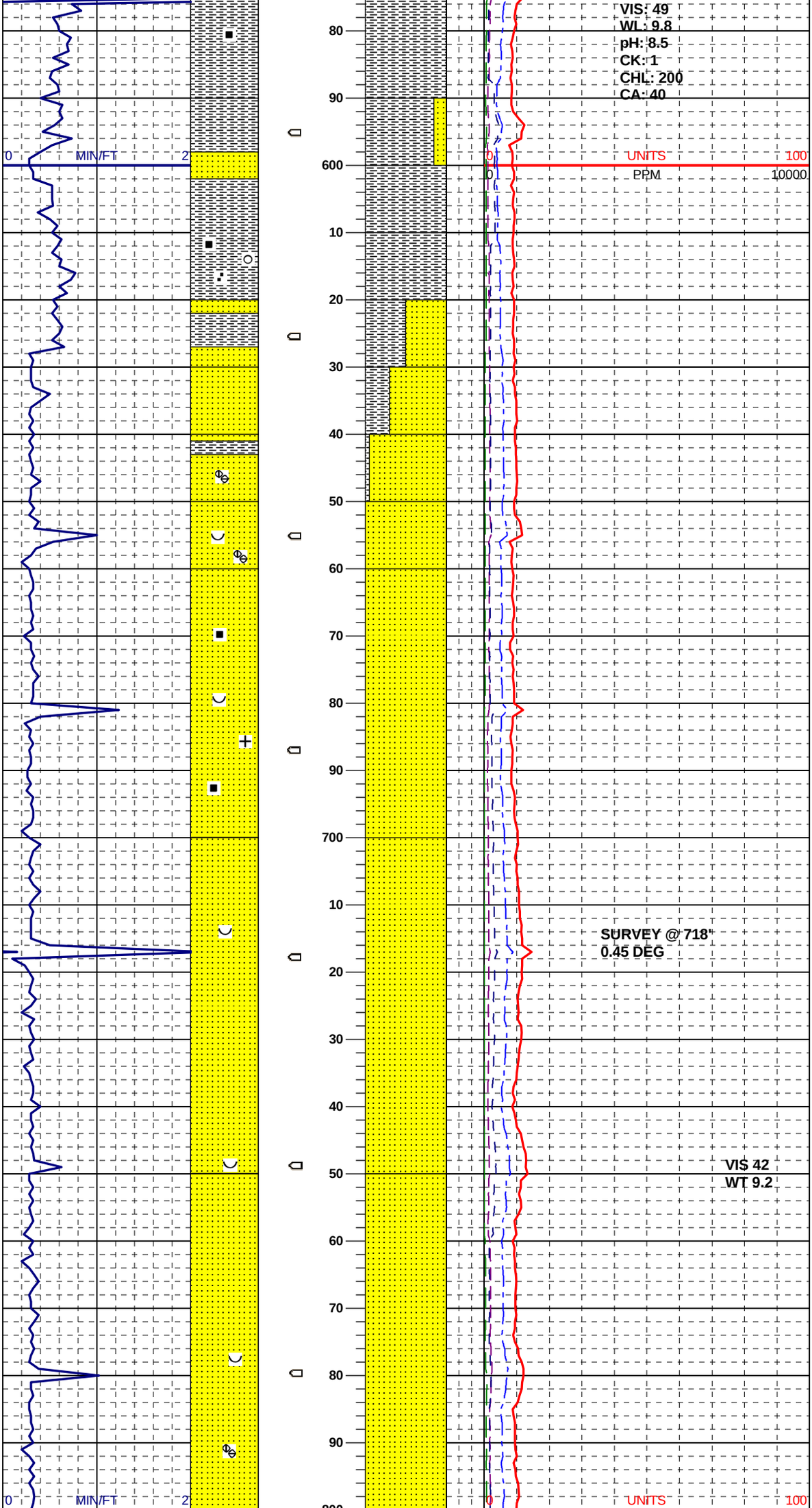
SS: clr, trnsl, unconsl loose grains, pred f to mg, some cse grains, ang-sbang, clr -transl qtz, 15% of sample is composed of biotite mica flakes. NFSOC

SH: lt-mgy, blky-sbblky, frm, sl hd ip, slty, occ sl sdy, non calc, scat micro blk spks common, occ minor amount of loose qtz grains in btm of spl tray

SH: lt-mgy, blky-sbblky, frm, sl hd, slty, non calc, some micro blk spks, clear mica flakes

TOH @ 564' FOR CSG

FIT TEST = 12.7 ppg EMW



SH: lt to mgy, blky-sbblky, frm, non calc, micro blk spks, trace of frm, blk organic coaly mat, no cut or fluor

SS: wh, s&p, vf-fg, fri, along with m-cse loose qtz grains, sbang-sbrd, NFSOC

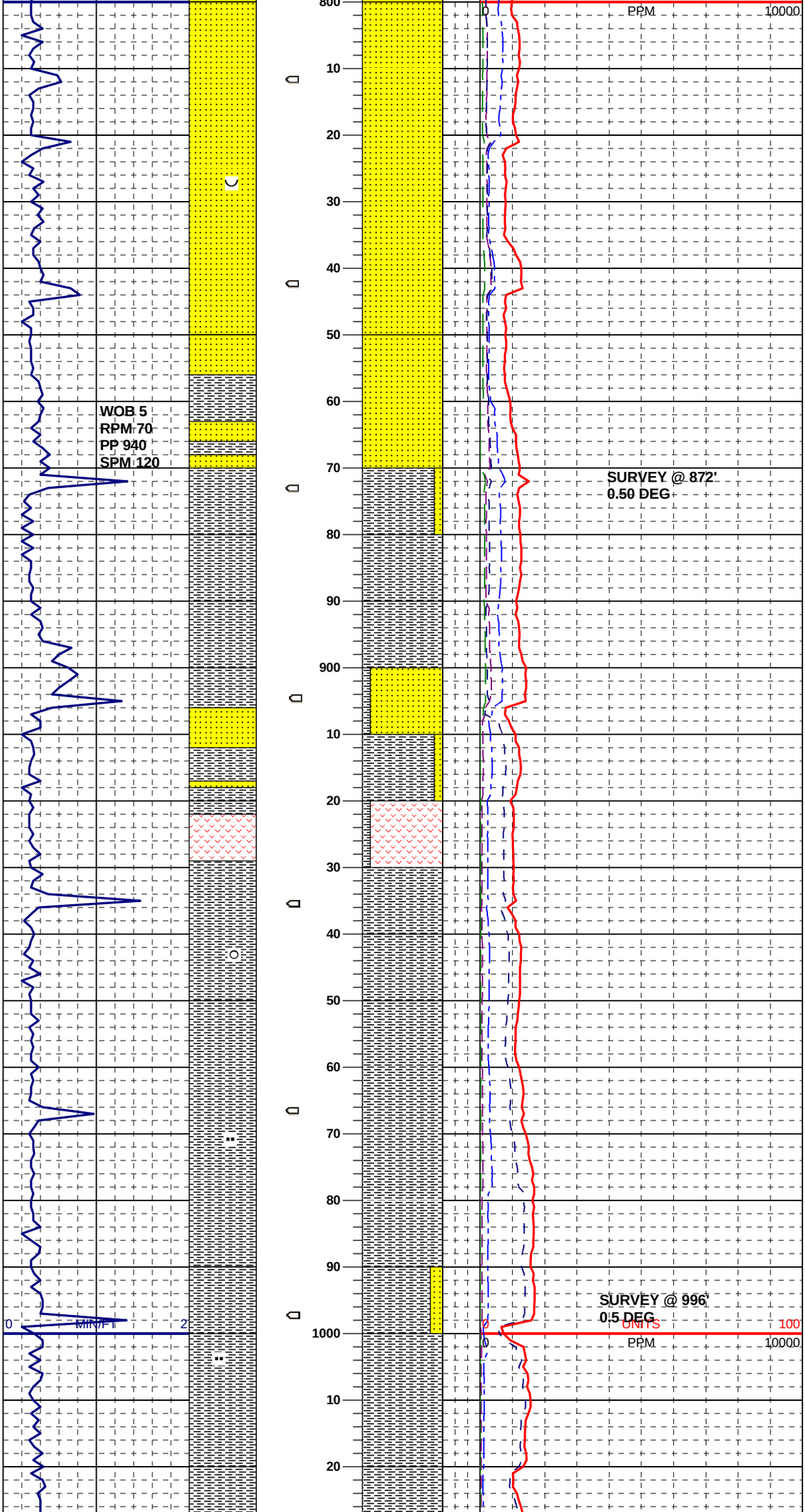
SH: ltgy, grading to CLYSTN, smooth, silty in part, non calc, soft to firm, occ trace wh, bent

SH: brn, blky-sbblky, frm-fri, slty, sdy with floating cse qtz grains, non calc, scat pieces of blk peat & woody looking material,

SH: mixture of ltgy and brn as above

SS: clr, trnsl, wh, m-very cse, ang-sbrd, rounded pebbles of volc rock, unconsolidated loose grains, clr & cloudy qtz, NFSOC

SS: clr, trnsl, wh, m to very cse grained, uncons loose qtz, trace feld, , clr - op qtz, clear & blk mica common, occ , loose grains of blk organic, sft, lignitic, woody mat scat through spls, NFSOC



SS: clr, trnsl, wh, m-cse grained, occ v cse grained, trace ltgy pebs, uncons loose grains, ang-sbrd, clr & op qtz, blk biotite mica flakes, NFSOC,

SH: ltgy, blky-sbblky, frm, sl hd to sft, slty, some micro size blk spks, non cal;c, trace loose qtz grains in spls

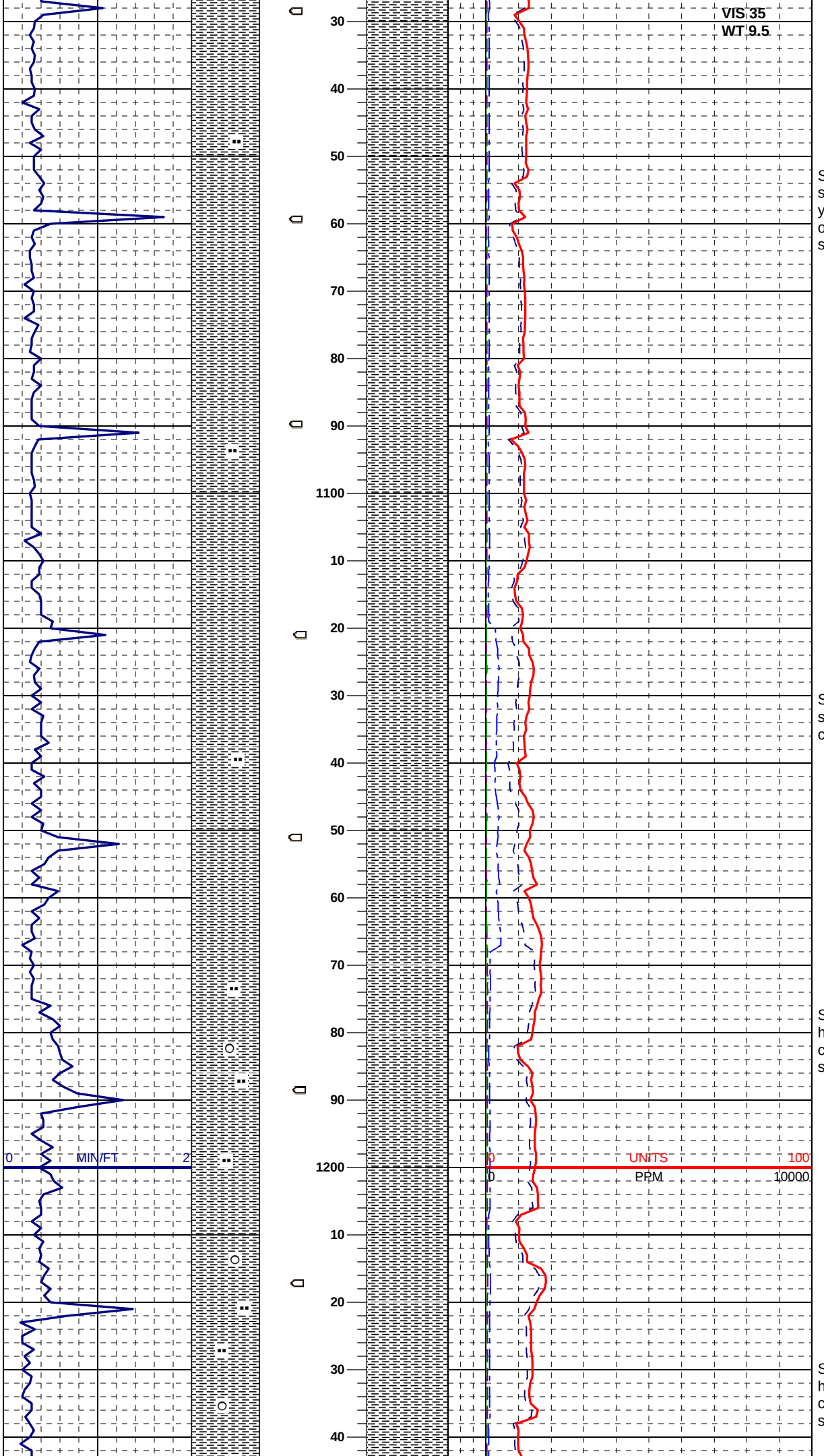
SS: clr, trnsl aa

TUFF: ltgy, micro xln ground mass with round clr mineral phen, approx half the sample is blackish brown tuff with mineral phen, micro to vf xl. some ltgy shale as above

SH: ltgy, blky-sbblky, sft, slty, sticky ip, clayey, occ some SS grains in spls

SH: lt to mgy, blky-sbblky, frm, sft, slty ip, non calc

SS: some qtz sand, mostly calcite xl, "safe carb" mud additive

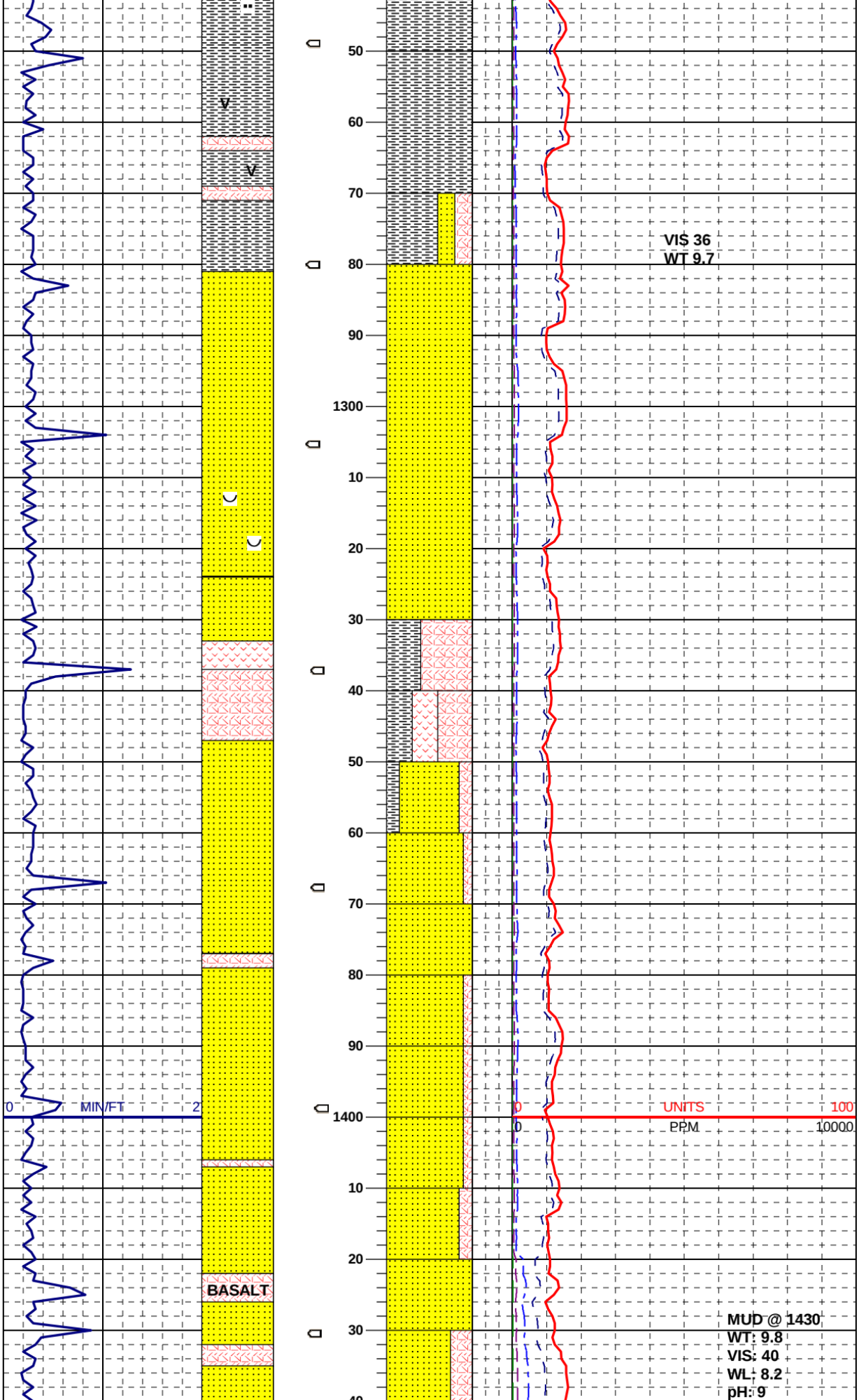


SH: ltgy, blky-sbblky, frm, occ sl hd, slty, non-calc, occ scat pieces of yellow-brn, hard clay shale prob occurr as lenses or veins in the gray shale

SH: ltgy, blky-sbblky, frm, occ sl hd, slty, non-calc, micro spks of mica common

SH: ltgy - gy, blky-sbblky, frm, occ sl hd, slty, non-calc, micro spks of mica common, grdg - sltst ip, poss carb spec, scat lse clr / trnsl sd grains

SH: ltgy - gy, blky-sbblky, frm, occ sl hd, slty, non-calc, micro spks of mica common, grdg - sltst ip, poss carb spec, scat lse clr / trnsl sd grains



SH: ltgy - gy - brn, spec s&p, blky-sbblky, frm, occ sl hd, slty, non-calc, micro spks of mica common, slty, overall VOLCANIC look

VOLCANICS: gn - brn - lt brn, smooth candy apple olivine frag, bentonitic grade

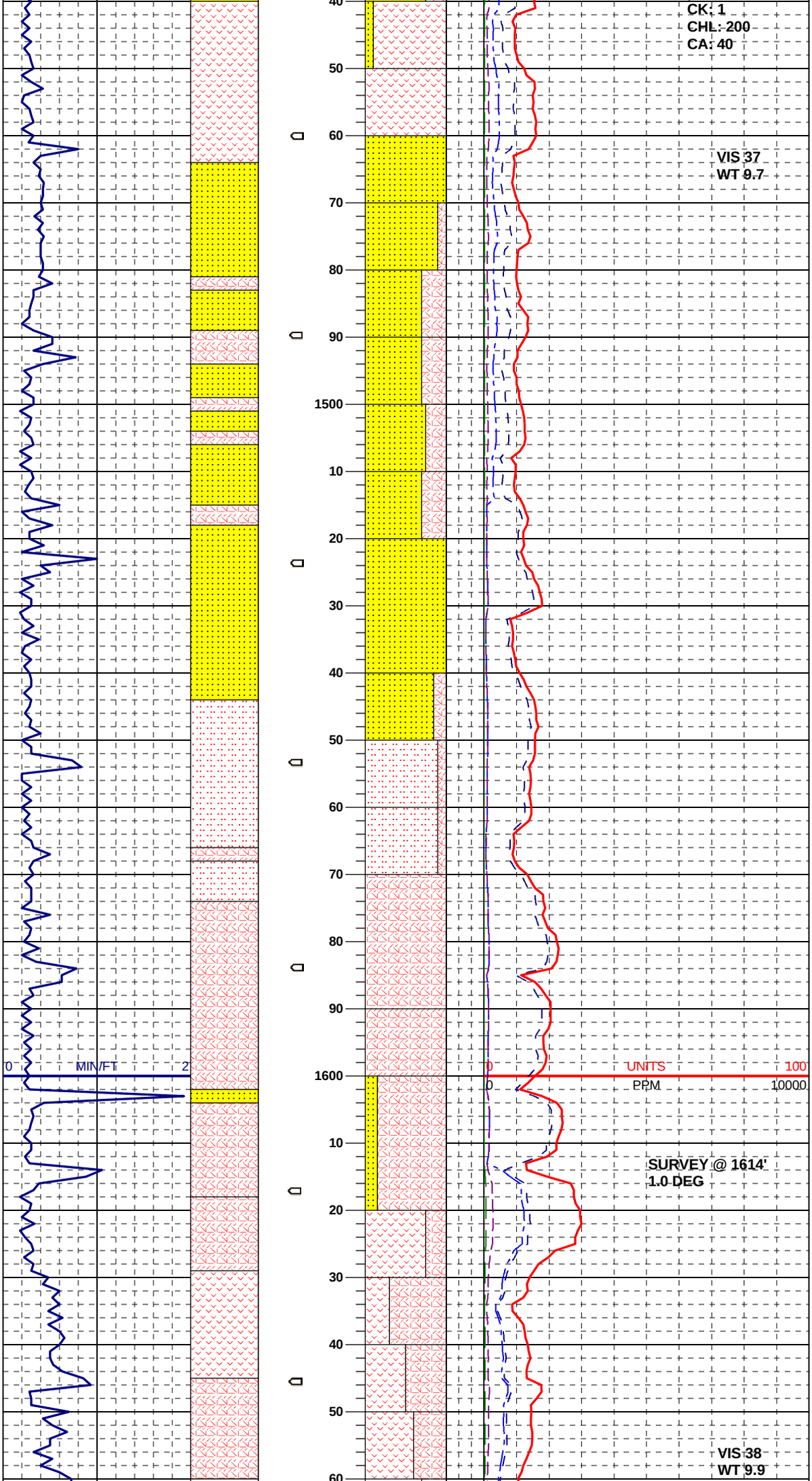
SS: clr, trnsl, wh, m-cse grained, occ v cse grained, uncons loose grains, ang-sbrd, clr & op qtz, blk biotite mica flakes, non calc, NFSOC

VOLCANICS: tan - brn - lt brn, occ olivine spec, blk spec / streaks, SOFT - chlky, bentonitic ip, occ lse sd grain, ash flow, SH: volcanic ip, TUFF: wh - crm, m hd - sb sft

SS: clr, trnsl, wh, m-cse grained, occ v cse grained, uncons loose grains, ang-sbrd, clr & op qtz, blk biotite mica flakes, non calc, scat blk HARD VOLCANIC frag and aa frag, NFSOC

SS: clr, trnsl, wh, m-cse grained, occ v cse grained, uncons loose grains, ang-sbrd, clr & op qtz, blk biotite mica flakes, non calc, scat blk / rusty org VOLCANIC scat frag and aa frag, NFSOC

VOLCANICS: blk - dk blk - blk brn, hd, basalt frag



TUFF: wh - crm, micro xln, micro to vf xl. some ltgy shale, scat blk poss basalt frag

TUFF: aa, 100% wh tuff

SS: clr, trnsl, wh, m-cse grained, occ v cse grained, uncons loose grains, ang-sbrd, clr & op qtz, blk biotite mica flakes, non calc, scat volcanic res

VOLCANICS: tan - brn - lt brn, occ olivine spec, blk spec / streaks, SOFT - chlky, abnt volcanic residue, ash flow? bentonitic ip

SS: clr, trnsl, wh, m-cse grained, occ v cse grained, uncons loose grains, ang-sbrd, clr & op qtz, blk biotite mica flakes, non calc, scat volcanic res

SLTSTN: ltgy - off wh, slightly s&p ip, fri, sft, arg, sl calc ip, blk spks & micro incl, volcanic??,NFSOC

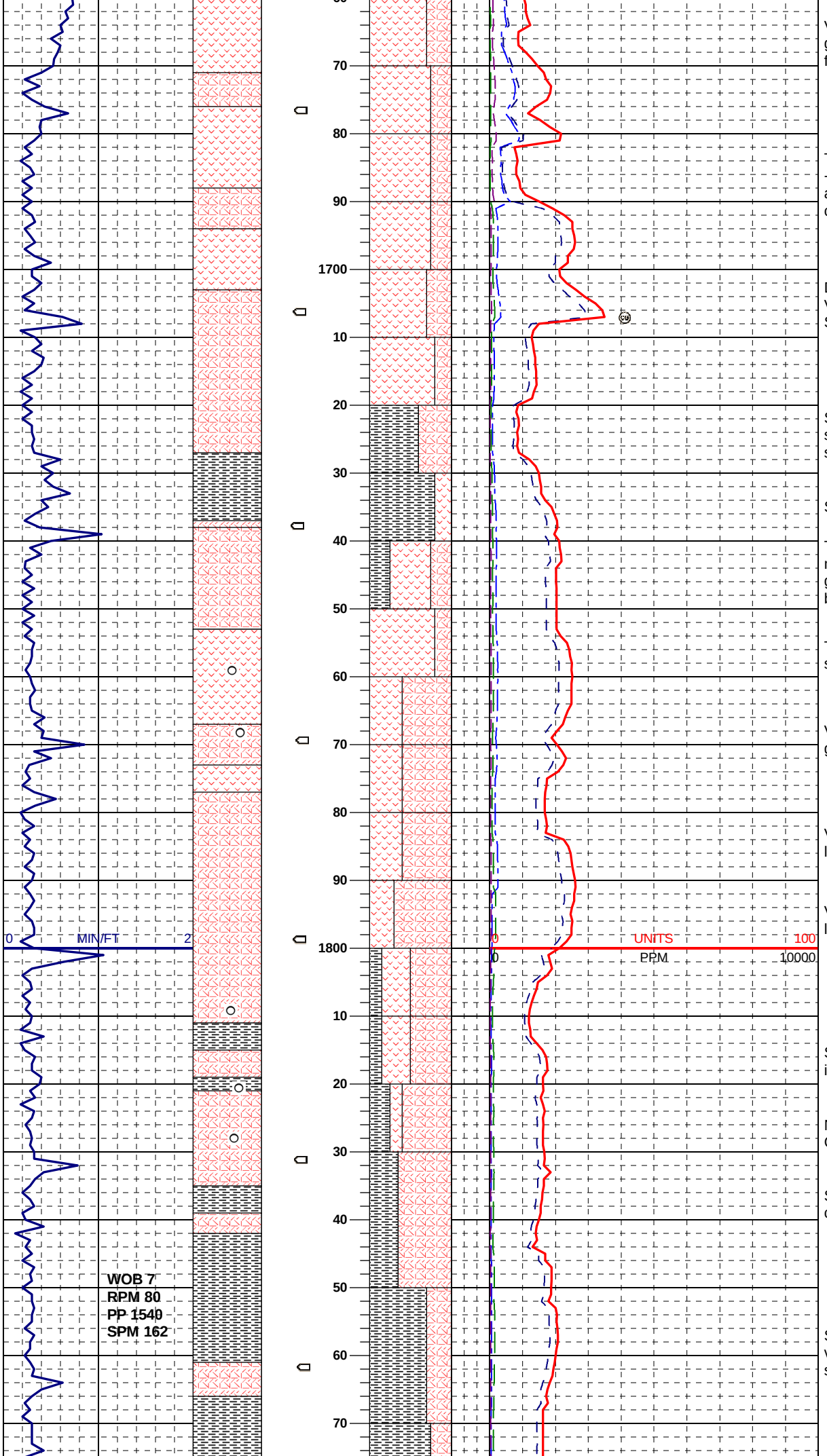
VOLCANICS: blk - gy, occ olivine incl, blk spec / streaks,wh spec, hd - v hd, basalt

VOLCANICS: lt gy - crm - wh - gy, lighter colored sample, appears to be shale, blk spec / streaks,wh spec, hd - v hd, basalt / tuff ??

VOLCANICS: aa / vari colored, whites and blacks, scat lse sd

TUFF: wh - gy - m gy, mic xl, hd - v hd - frm, appears to be gray sh w/ abnt brn frag w/ tuff incl, zeo

VOLCANICS: wh - crm - lt gy - crm - wh, lighter colored sample, appears to be shale, wh spec, hd - v hd, basalt / tuff ??, glass - clr



VOLCANICS: blk - gy, hd - m hd, lt / gy tuff frags, daker basalts, pred gy frag with white spec tuff

TUFF: brn - wh - gy - m gy, mic xl, hd - v hd - frm, appears to be gray sh w/ abnt brn frag w/ tuff incl, brn spec wh, clr gl frag - ss??

DRILLS INTO CLAY LIKE BALLS - VOLCANICS APPARENT WHEN SAMPLE IS WASHED

SH: blue green hue - gy, brn, sbblky-sbplty, frm, sl hd to sft, non calc to sl calc ip, tuff ip

SH: aa / incr brn - lt brn, still tuff ip

TUFF: blue gr - brn - wh - gy - m gy, mic xl, hd - v hd - frm, appears to be gray sh w/ abnt brn frag w/ tuff incl, brn spec wh, olivine fragments

TUFF: gy - wh, gy w/ wh spec / tuff streks, hd - m hd, occ olivine zeo

VOLCANICS: aa w/ scat lse clr sd grains

VOLCANICS: brn - lt brn, hd - m hd, lt / gy tuff frags, sample appears shy

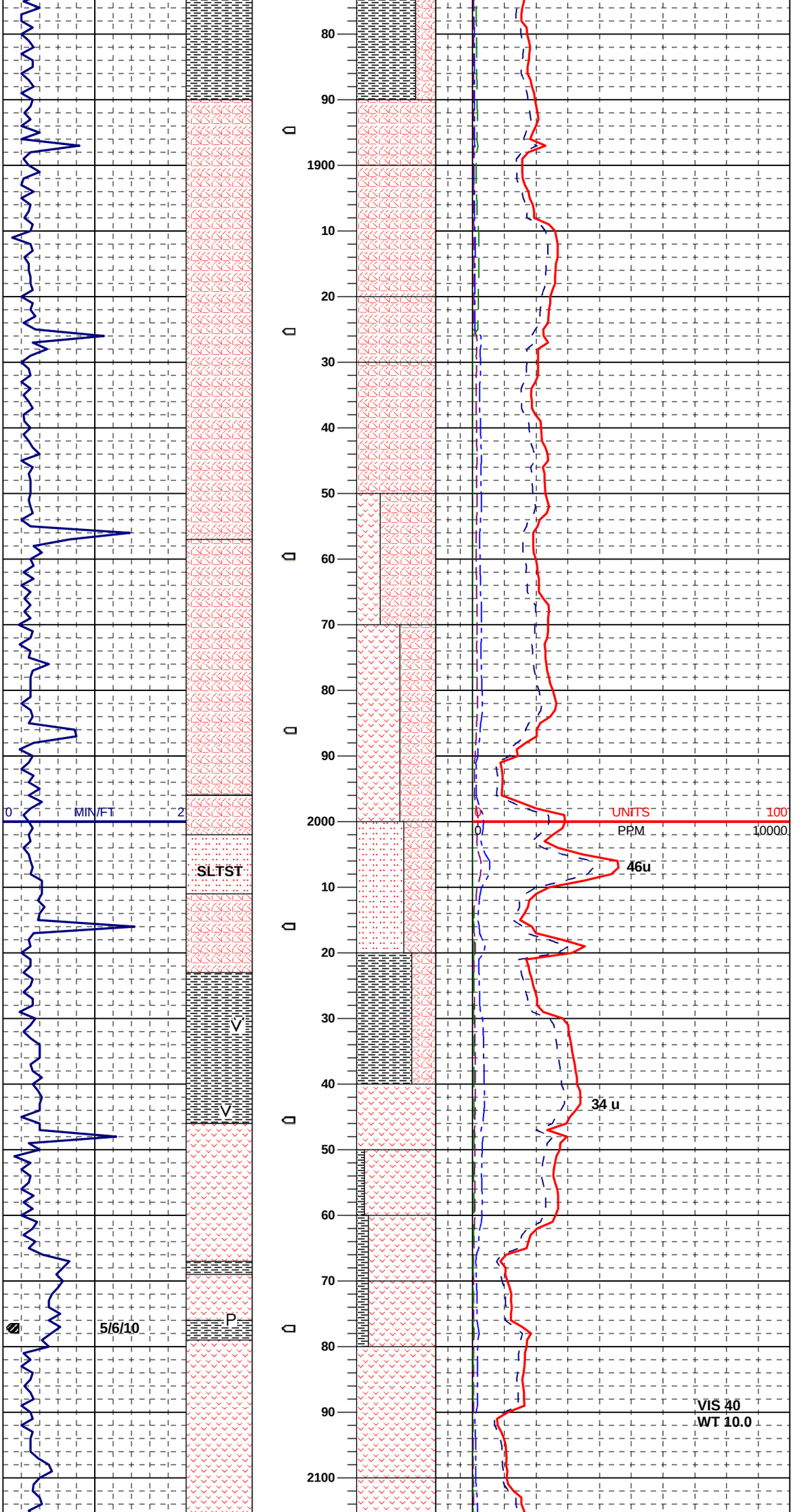
VOLCANICS: aa / sample is generally lighter and whiter colored

SH: blue green, hd - fri, shy ip, tuff ip, incr olivine, scat blk basalt frag?

NOTE: SAMPLES TURN BLUE GREEN

SH: gy - overall blue green / olivine color, volcanic

SH: gy - overall blue green color, volcanic ip, occ slty, smooth, abnt lse sd grains



NOTE: LITHOLOGY CHANGE / 100% VARI COLORED MINERAL RICH VOLCANICS

BASALT: blk - brn rust, lt grn, wh, gr, olivine, glassy lt grn / dk grn rnd incl, abnt zeo, spotted, hd, mineral rich, basalt

BASALT: bright vari colored, rusty dk brn, blk - brn rust, lt grn, wh, gr, olivine, v glassy, lt grn / dk grn rnd incl, abnt zeo, spotted, hd, mineral rich, basalt

BASALT: bright vari colored, incr overall blue, rusty dk brn, blk - brn rust, lt grn, wh tuff strk, gr, olivine, v glassy, lt grn / dk grn rnd incl, abnt zeo, spotted, hd, mineral rich

TUFF: blue green, gy - wh, hd - m hd, occ olivine zeo, decr mineral, sl shy

TUFF: blue gr - brn - wh - gy - m gy, mic xl, hd - v hd - frm, appears to be gray sh w/ abnt brn frag w/ tuff incl, brn spec wh, olivine fragments

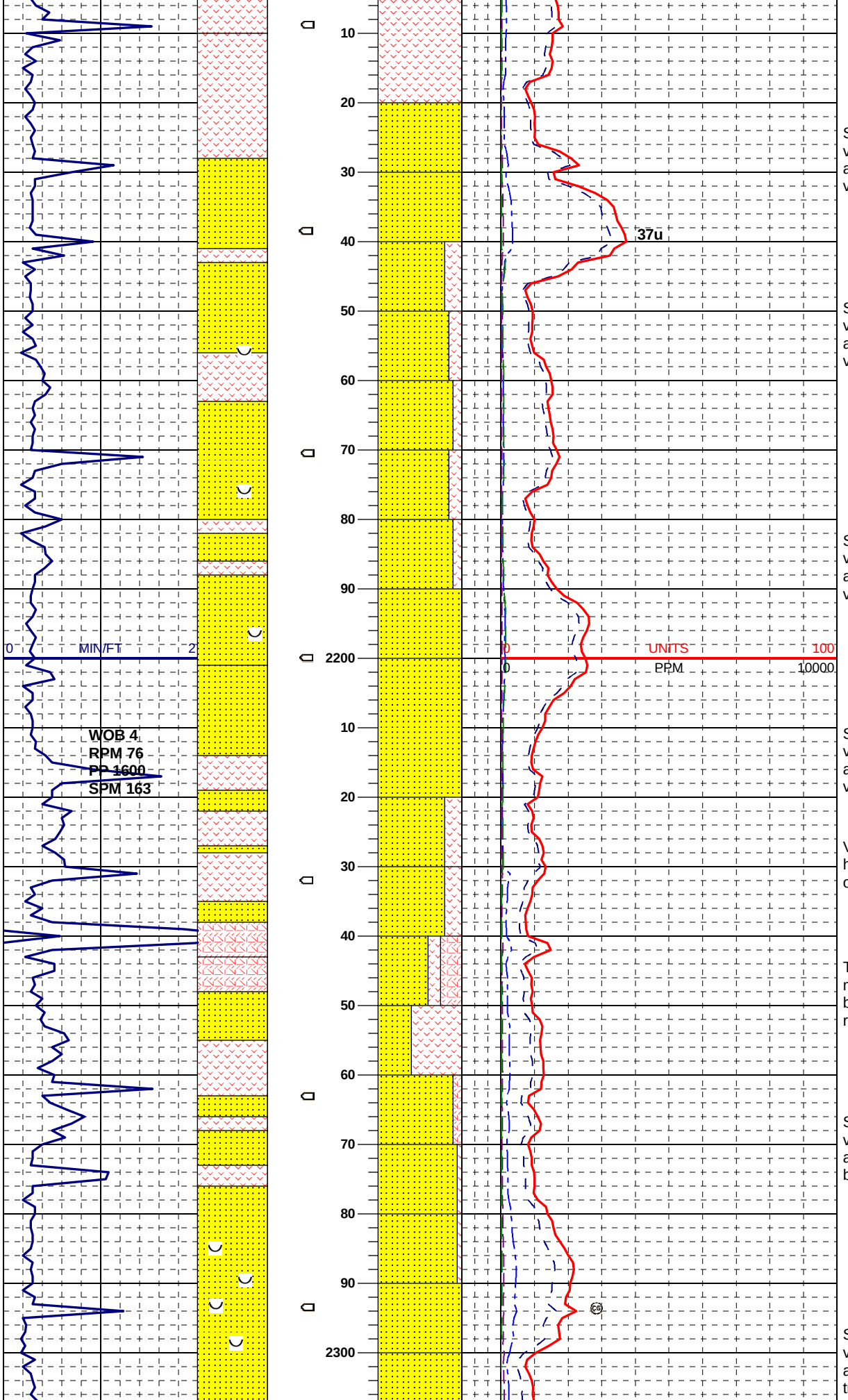
SLTSTN: lt brn - brn, slightly s&p ip, fri, sft, arg, sl calc ip, blk spks & micro incl, bent ip?, volcanics still green - olivine, NFSOC

SH: brn - dk brn, plty - sbplty, v rthy, m hd - fri, poss volcanic?

TUFF: wh - gy - m gy, mic xl, hd - frm, occ wxy, appears to be gray sh w/ abnt brn shy frag

TUFF: wh - gy - m gy, mic xl, hd - frm, occ wxy, appears to be gray sh w/ abnt brn shy frag, tr pyr

TUFF: wh - gy - m gy, blueish green, mic xl, hd - frm, occ wxy, appears to be gray sh, volcanic frag



SS: clr, trnsl, wh, m-cse grained, occ v cse grained, uncons loose grains, ang-sbrd, clr & op qtz, non calc, scat volcanic / tuff frag

SS: clr, trnsl, wh, m-cse grained, occ v cse grained, uncons loose grains, ang-sbrd, clr & op qtz, non calc, scat volcanic / tuff frag

SS: clr, trnsl, wh, m-cse grained, occ v cse grained, uncons loose grains, ang-sbrd, clr & op qtz, non calc, scat volcanic / tuff frag, abnt mica frag

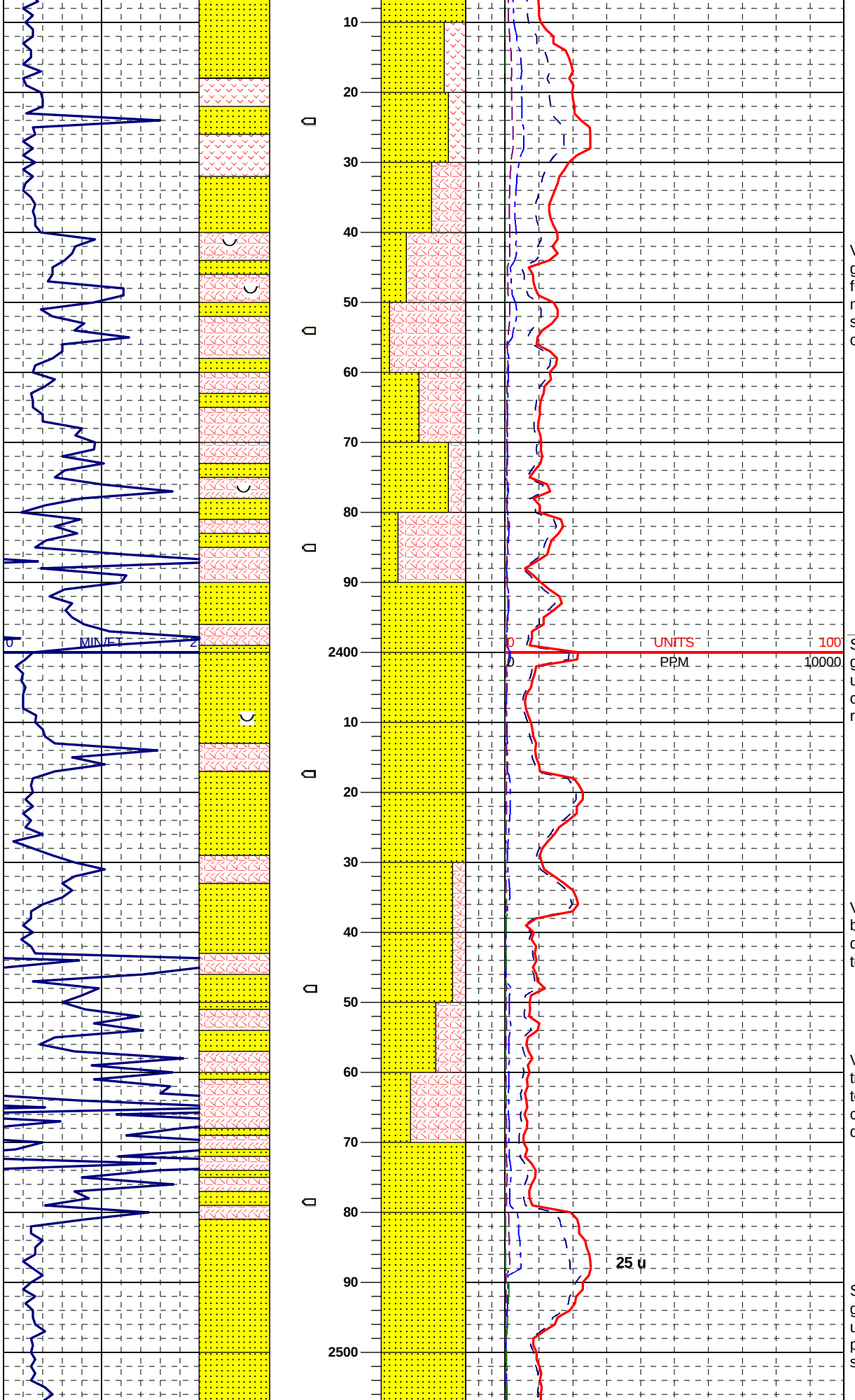
SS: clr, trnsl, wh, m-cse grained, occ v cse grained, uncons loose grains, ang-sbrd, clr & op qtz, non calc, scat volcanic / tuff frag

VOLCANICS: large gy - dk brn - blk, hd - m hd, poss dk tuff frag coming over shaker

TUFF: wh - gy - m gy, blueish green, mic xl, hd - frm, occ wxy, appears to be gray sh, volcanic frag, blk mineral rich basalt frag common

SS: clr, trnsl, wh, m-cse grained, occ v cse grained, uncons loose grains, ang-sbrd, clr & op qtz, non calc, scat bri aqua blue volcanic frag

SS: clr, trnsl, wh, m-cse grained, occ v cse grained, uncons loose grains, ang-sbrd, clr & op qtz, non calc, scat tr volcanic frag, v mica



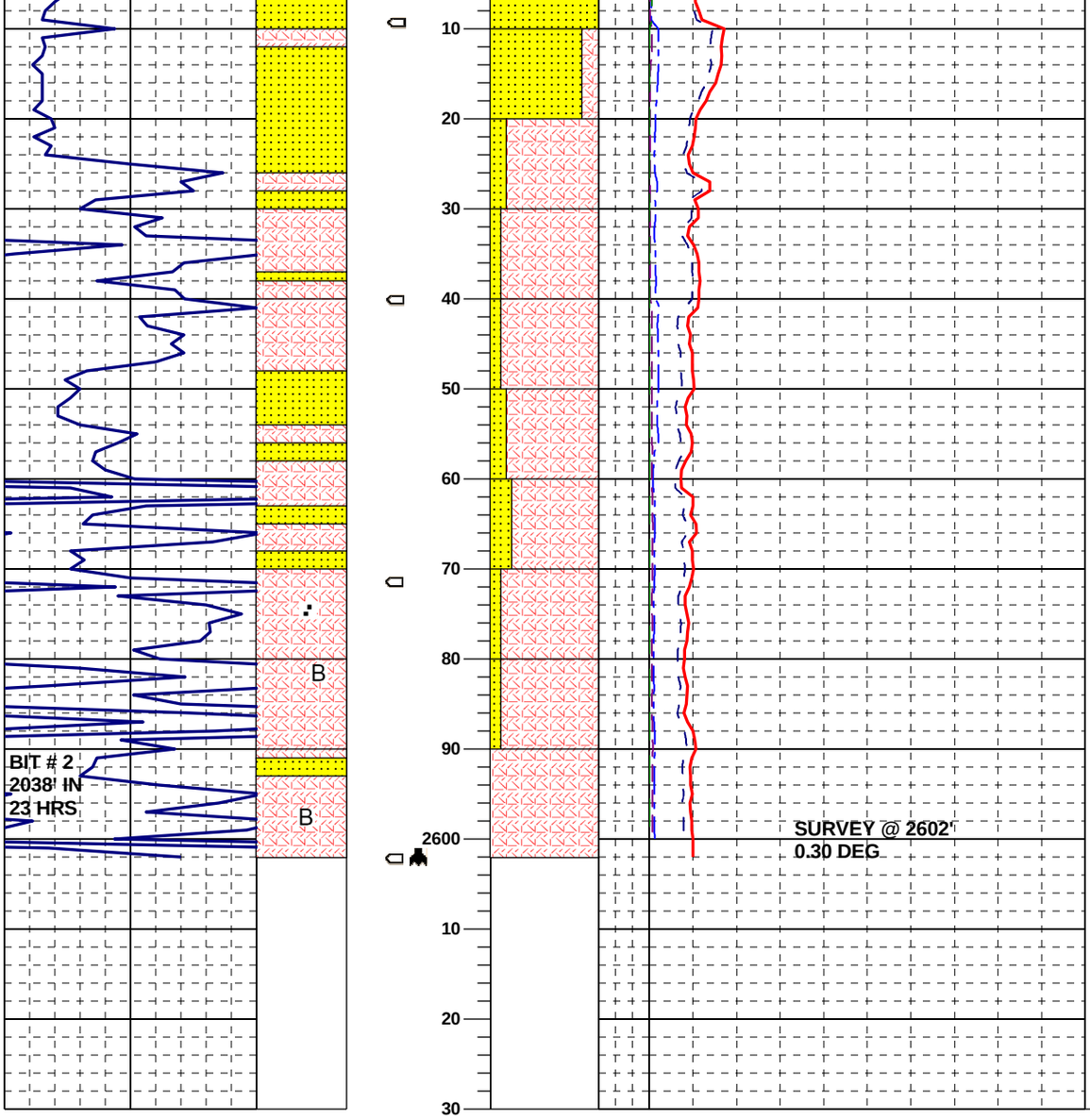
VOLCANICS: pinkish- brn - lt brn- blk, gy - m gy, mic xl, slty ip, hd - v hd - frm - fri, sft ip, blk basalt frag, sme multi gr ss clus, sl shy, clr mica frag, some blk, brittle, shiny-glassy, obsidian?

SS: clr, trnsl, wh, med to very cse grained, sbang-sbrd, clr & op qtz, uncons loose grains, biotite mica common, scattered pieces of VOLC rock fragments in spls, NFSOC

VOLCANICS: pinkish brn, brn, ltgy, blk, ground up pieces in spl as described above, may be volc shale, tuff, weathered in part, clayey in part

VOLCANICS: pale lt gy with greenish tint, vfxl, clayey and shly ip, sft to frm to mod hd, tuffaceous, some lt brn, chips with dk brn spks, could be re-deposited volcanic debris

SS: clr, trnsl, wh, med to very cse grained, sbang-sbrd, clr & op qtz, uncons loose grains, scattered pieces of VOLC rock fragments in spls, NFSOC



VOLCANICS: lt tan, ltgy, pred grnd up as bit flour, brn-blk biotite mica flakes common, sticky and clayey, prob bent ash, tuff derived sediment, could be an in place, tuff ash flow.

SS: clr, op,ltgy, f-mg, uncons loose, ang-sbang, intbd with VOLC: light gray, greenish tint, rhyolite tuff or lava flow, grnd up by bit, sandy, somewhat clayey to very gritty , NFSOC

VOLCANICS: wh, crm, lt greenish gray, tuff & shale, bentonitic, poss hard, as spl is partly white bit flour, small chips appear vf to micro xl and are firm to sl sft

TOTAL DEPTH @ 2602'
09:00 HRS, 5/6/10