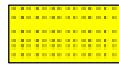
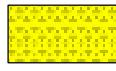


LOG created using Lplot VH Version 3.0, January 10, 2012, Copyright (C) 1999-2009 Pason Systems Corp.

OPERATOR: CHESAPEAKE OPERATING INC.
WELL: STATE 8-60-16-2H
LOCATION: NW NW 280' FNL & 660' FWL
COUNTY: WELD
STATE: COLORADO
SPOT: NWW SEC 16, T8N, R60W
ELEVATION: GL 4918', KB 4940'
FIELD: WILDCAT
SPUD DATE: 1/2/2012
TD DATE:
DATES LOGGED: 1/5/2012
DEPTHS LOGGED: 1111'-
LOGGERS: MARK RAIMO, KYLE KNIGHT
DRILLING FLUID: LSND
DRILLING RIG: SST 53
API: 05-123-34824
LOG TYPE: VERTICAL
SCALE: 1:240 (5 inches per 100 feet)
REMARKS:

LITHOLOGIES

Sandstone



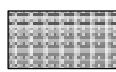
Shaly Sandstone



Shaly Siltstone



Siltstone



Silty Shale

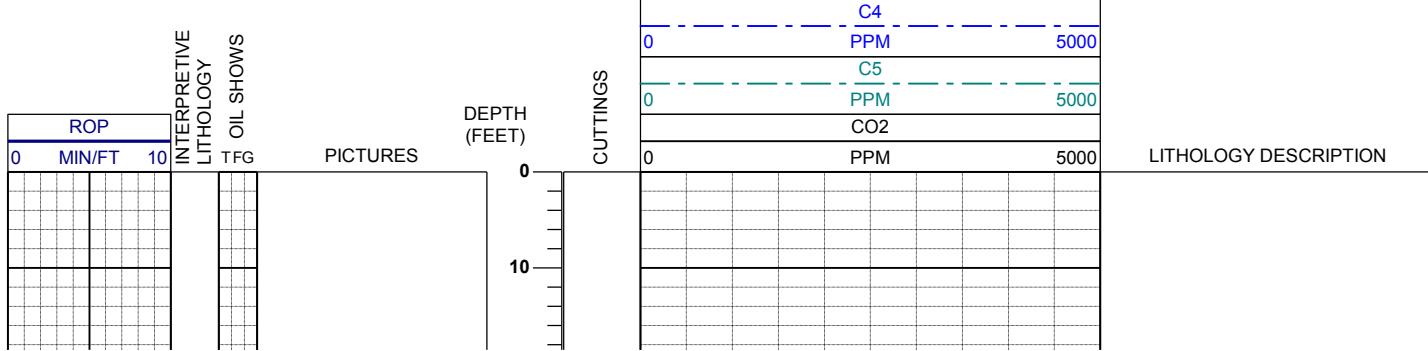
ENGINEERING SYMBOLS

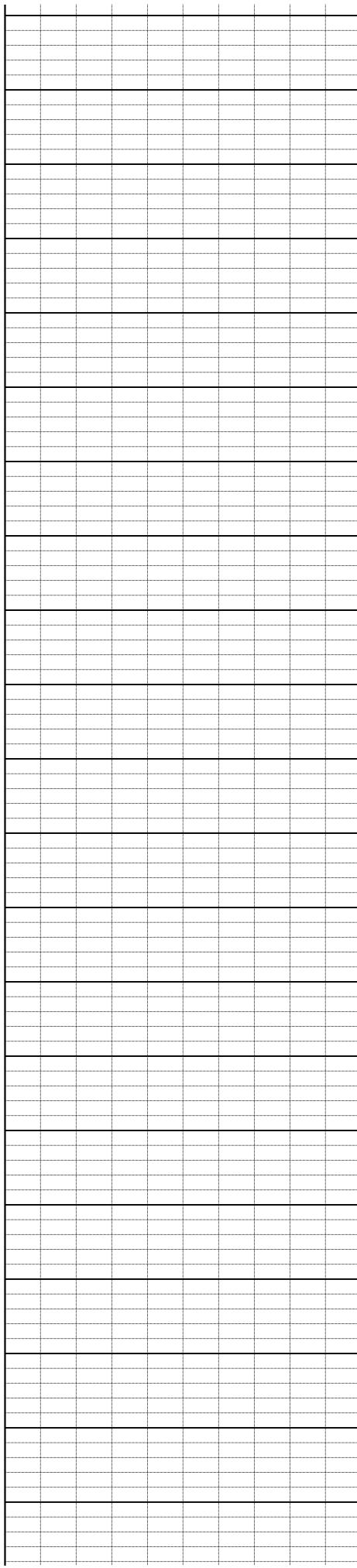
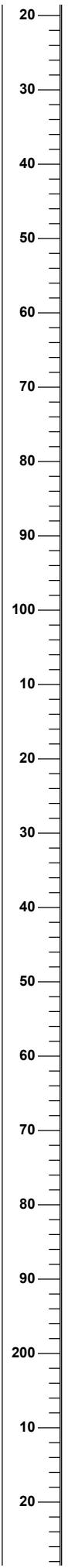
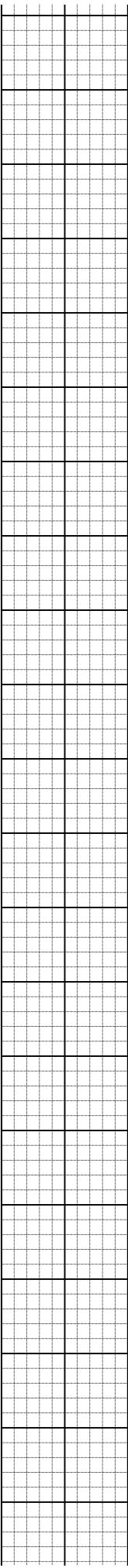
Connection

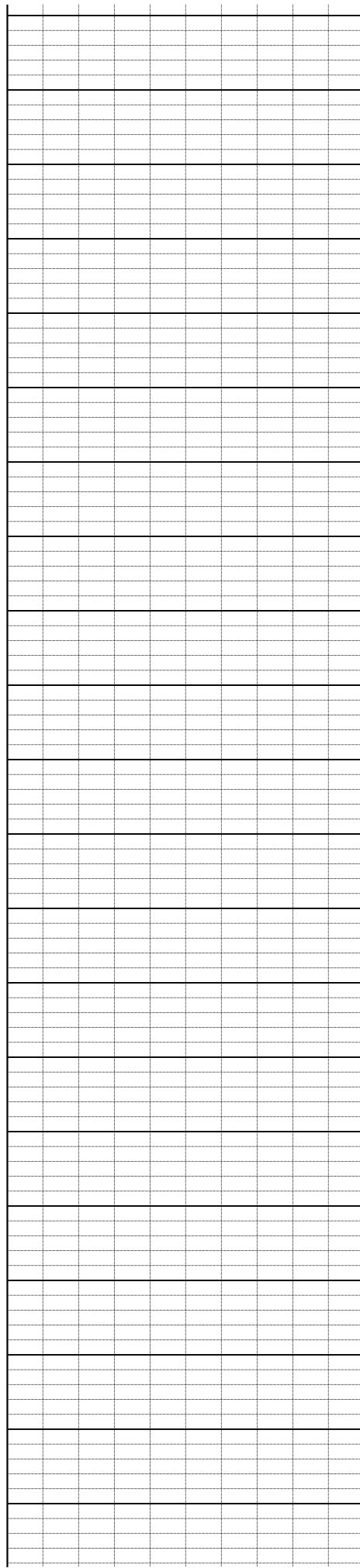
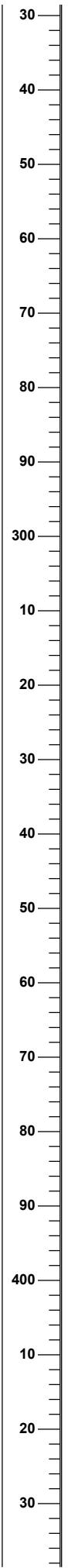
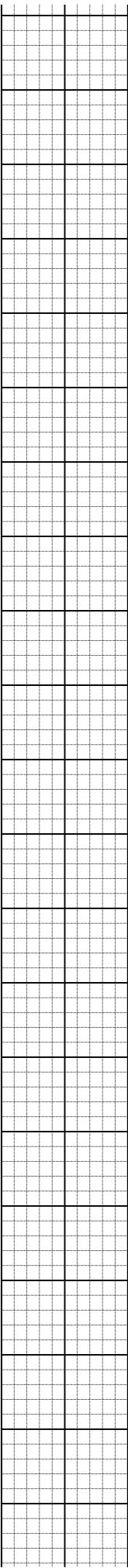


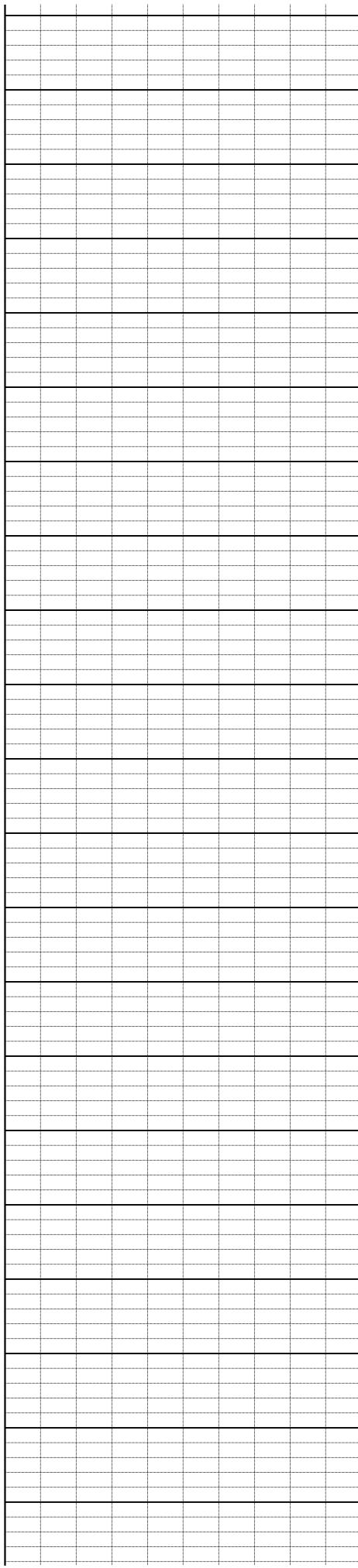
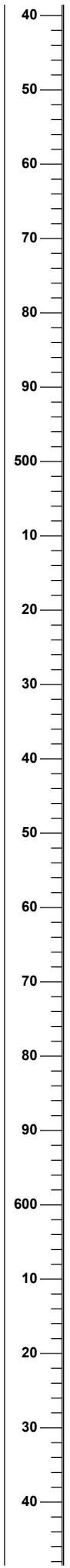
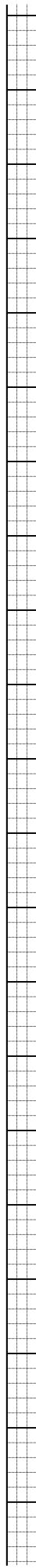
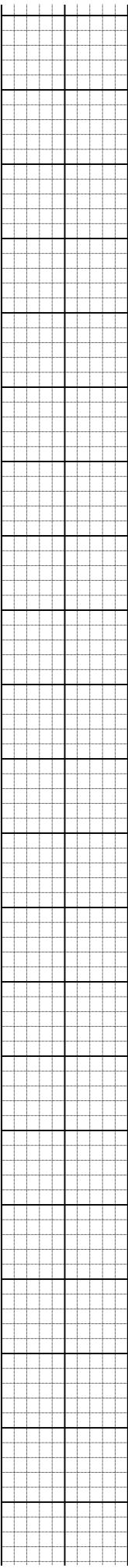
Midnight Depth

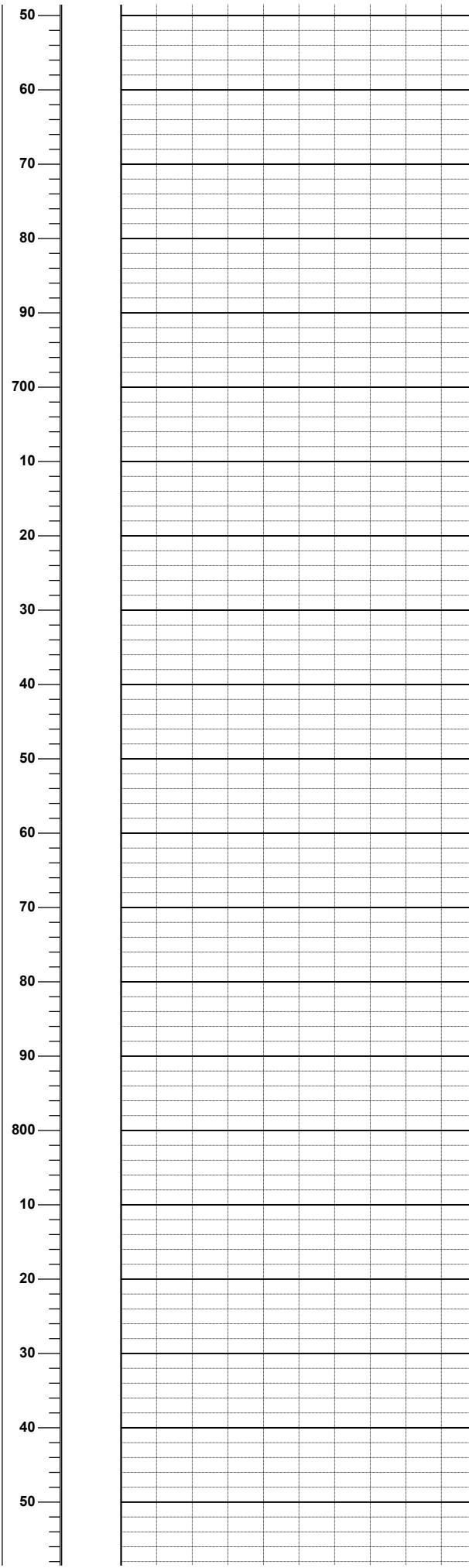
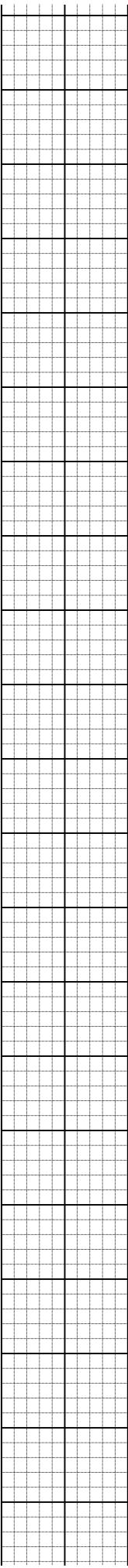
GAS		
0	UNITS	50
C1		
0	PPM	5000
C2		
0	PPM	5000
C3		
0	PPM	5000
C4		
0	PPM	5000
C5		
0	PPM	5000
CO2		
0	PPM	5000

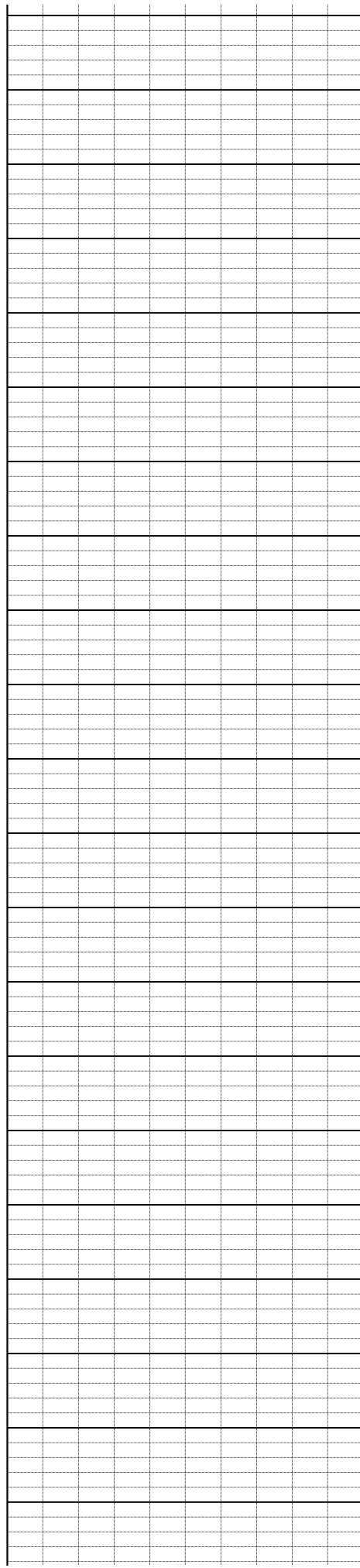
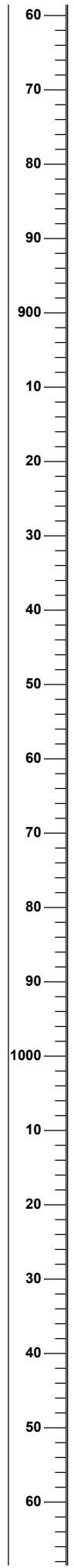
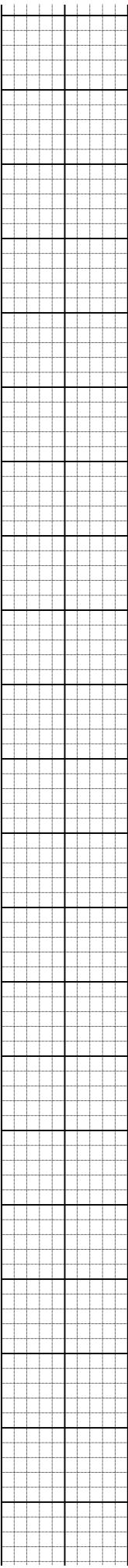


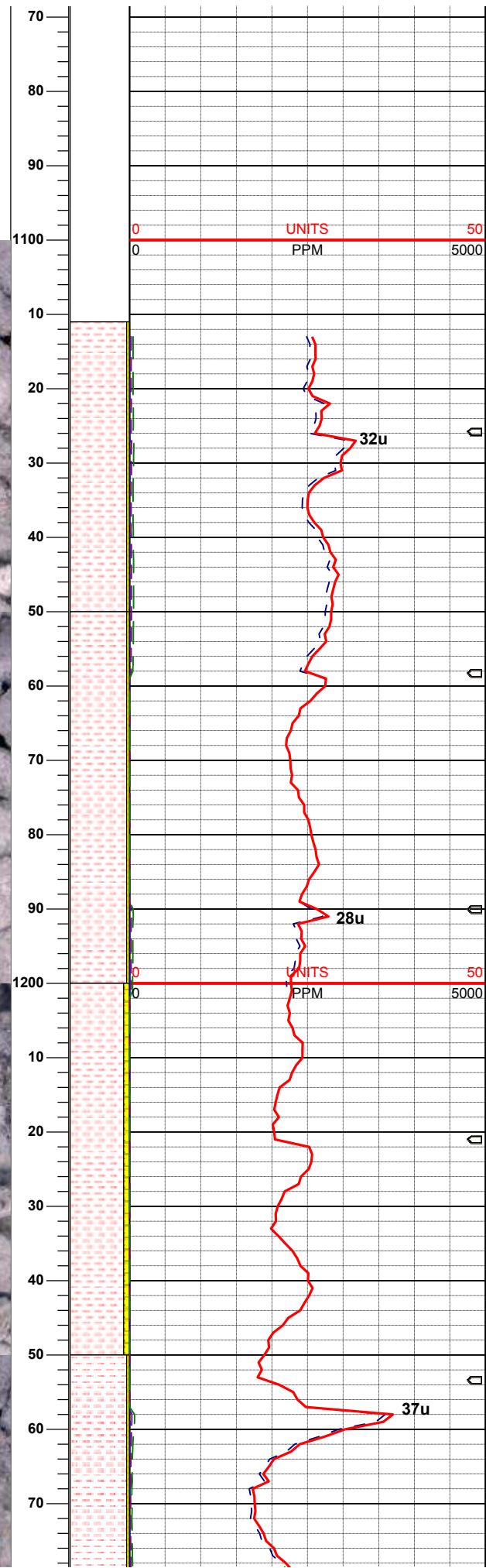
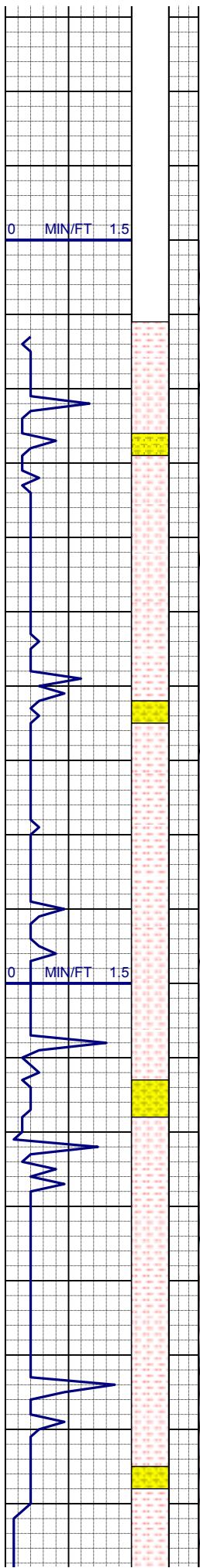












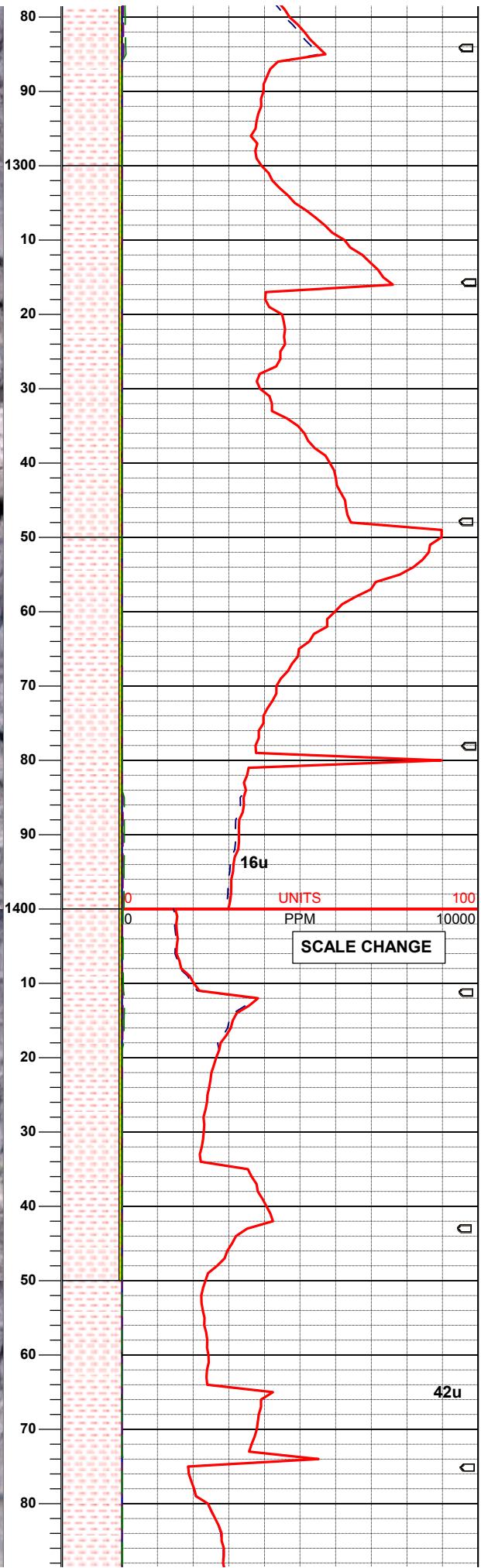
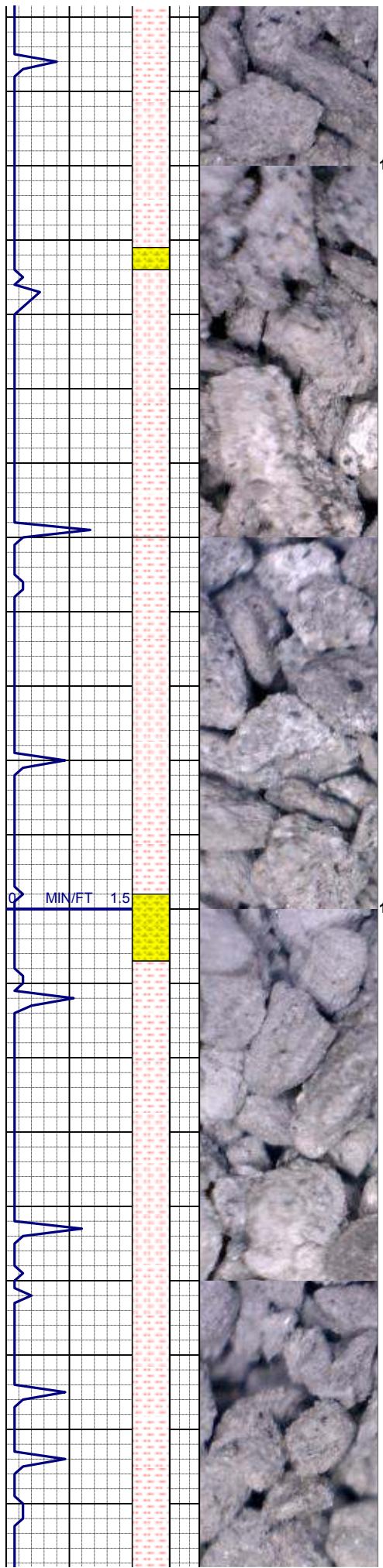
COLUMBINE LOGGING
RIGGED UP ON 01/04/12
MANNED 2-PERSON
LOGGING WITH
BLOODHOUND GAS
CHROMATOGRAPH
UNIT #569

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc

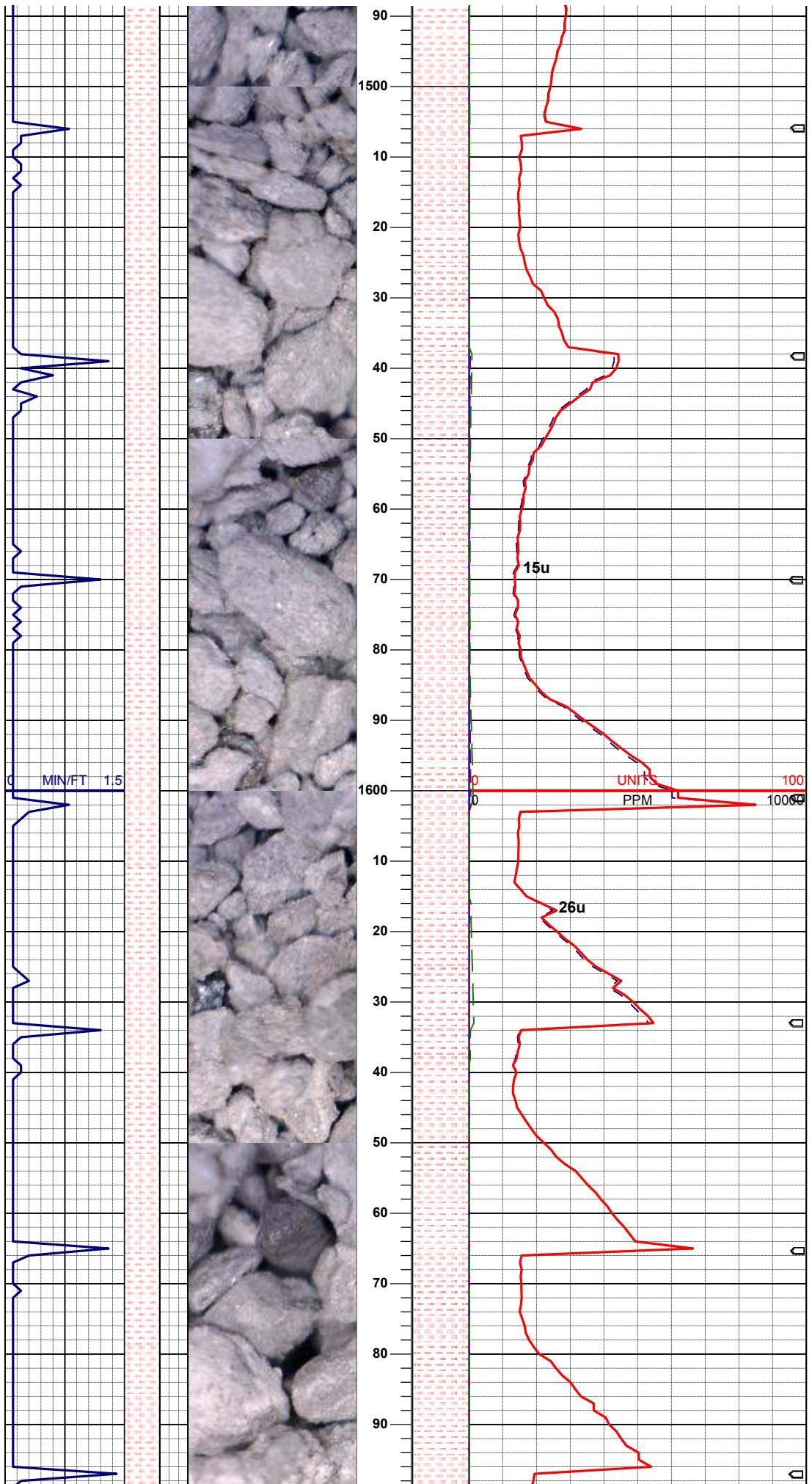
SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc

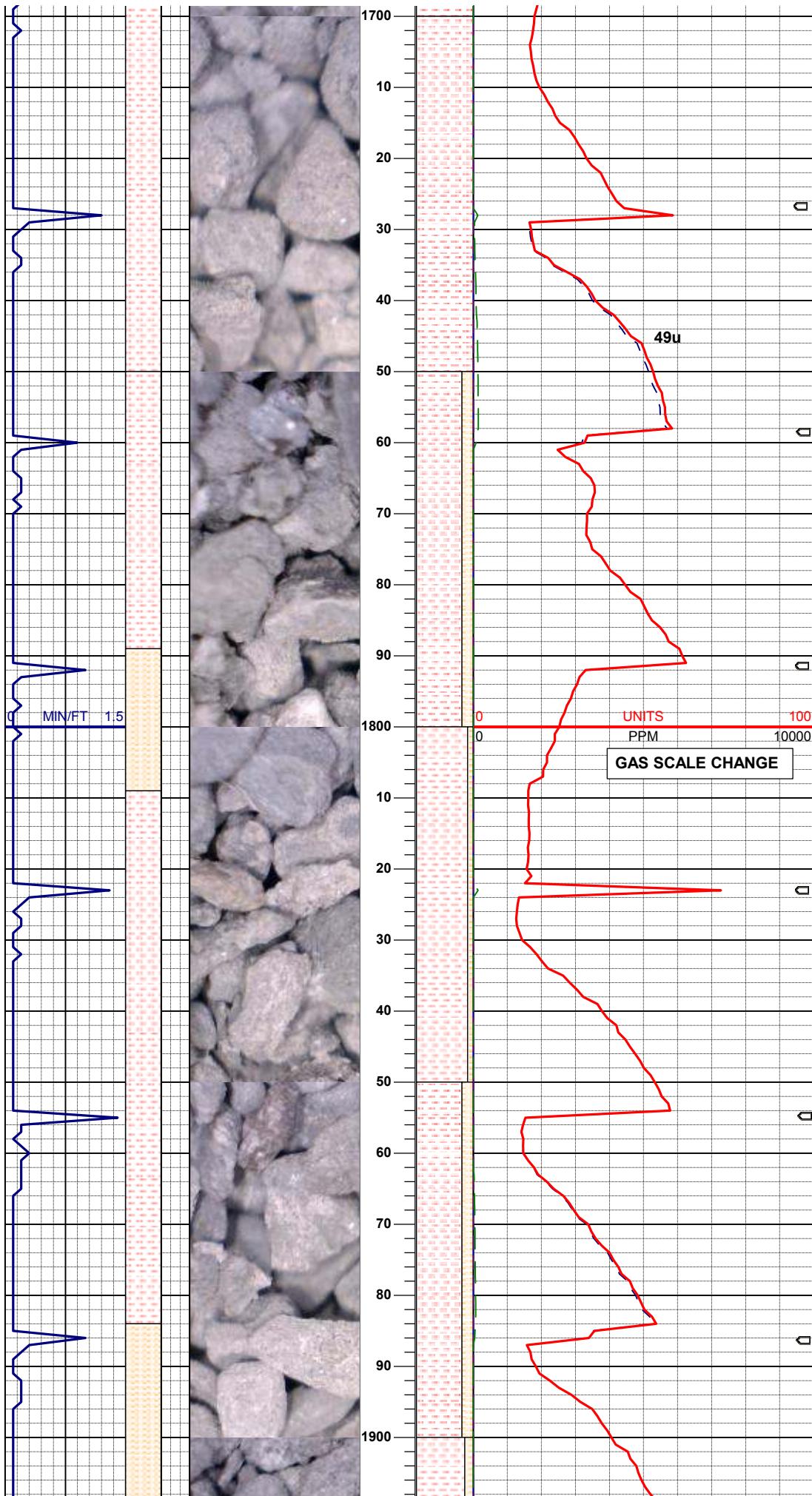
SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc



cly cmt, mtx, brit, sl calc
SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt; SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc
SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt; SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc
SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt; SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit
IN WT 8.3 VIS 27
OUT WT 8.3 VIS 34
SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt





SLTST: gy, rhy - wxy, sft, brit, sl
calc, cly mtx, w srt cslt, abnt
clay

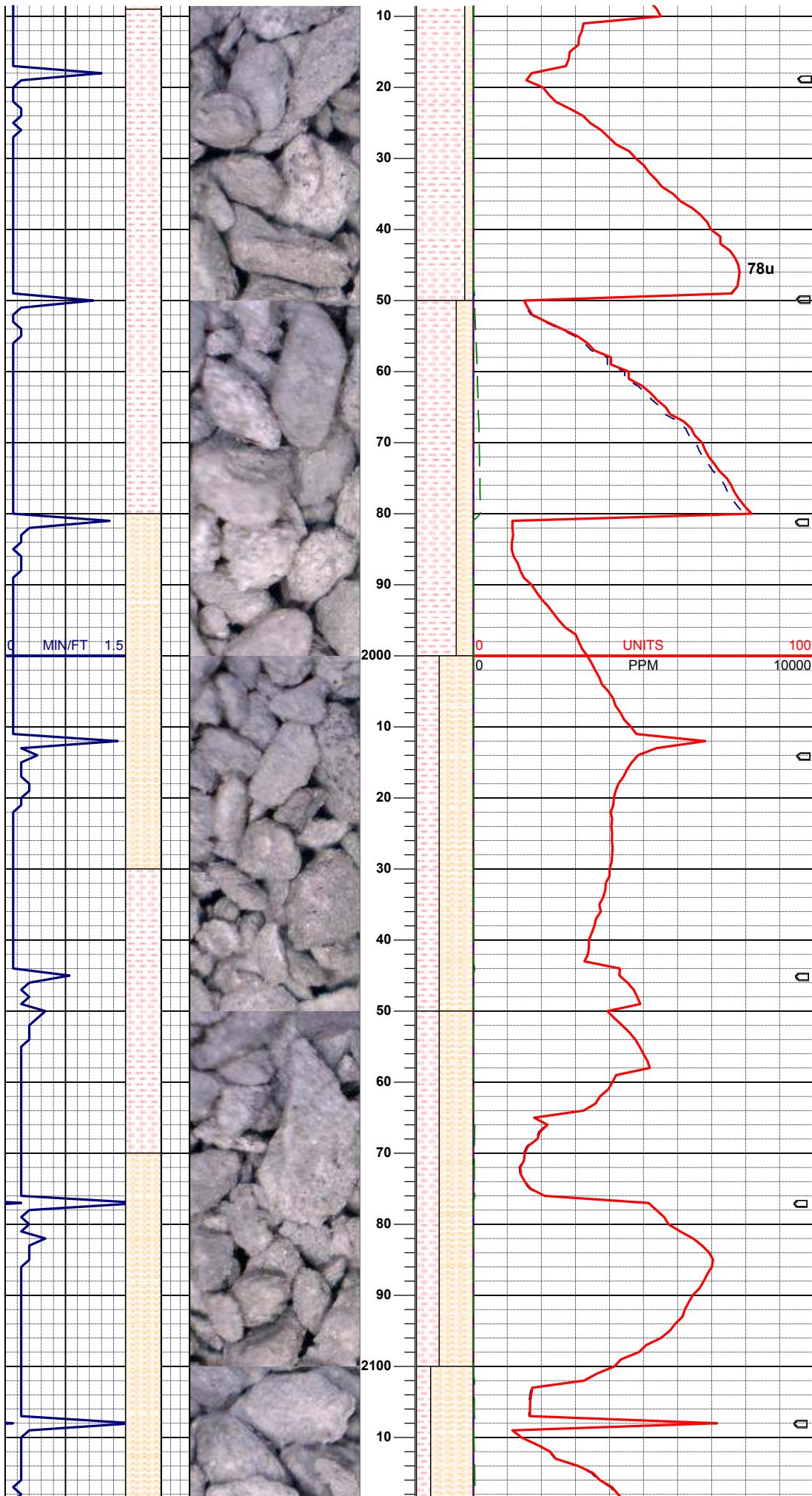
SLTST: gy, rhy - wxy, sft, brit, sl
calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f
gr, fri, cly cmt, brit, tr bent, abnt
clay

IN WT 8.3 VIS 29
OUT WT 8.3 VIS 32

SURVEY
MD 1822'
INC 0.3°
AZM 270°

SLTST: gy, rhy - wxy, sft, brit, sl
calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f
gr, fri, cly cmt, brit, tr bent, abnt
clay

SLTST: gy, rhy - wxy, sft, brit, sl
calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f
gr, fri, cly cmt, brit, tr bent, abnt
clay



IN WT 8.3 VIS 29
OUT WT 8.3 VIS 32

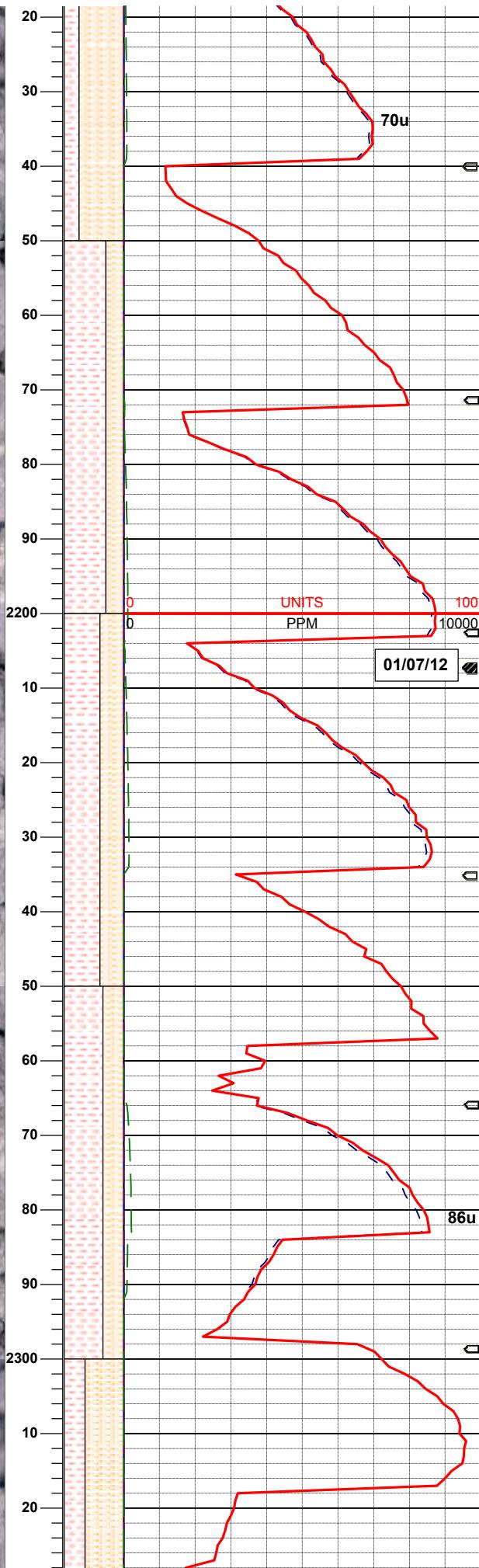
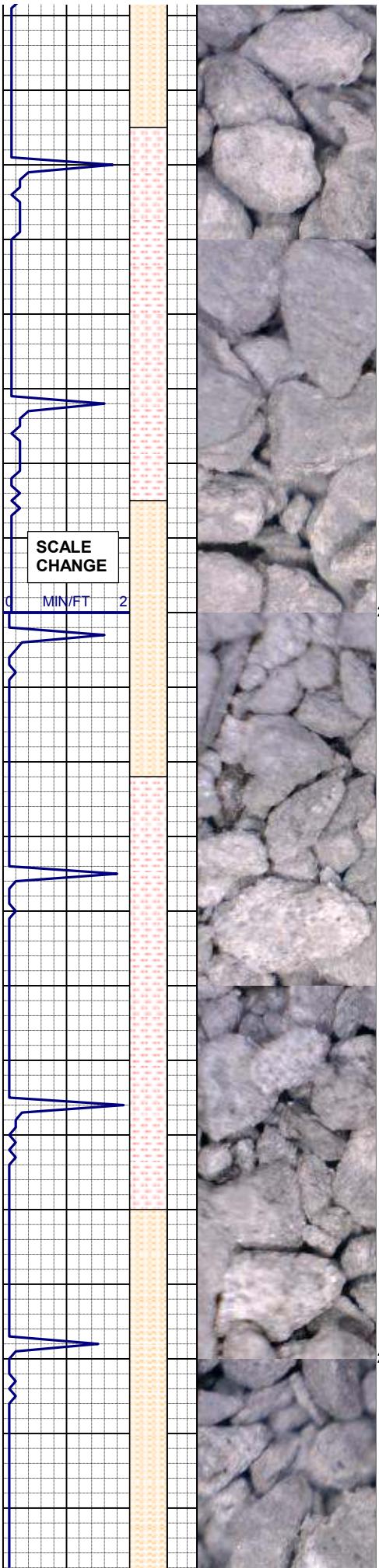
SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit, abnt clay

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit, abnt clay

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit, abnt clay

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit, abnt clay

SURVEY
MD 2108'
INC 0.2°
AZM 198°



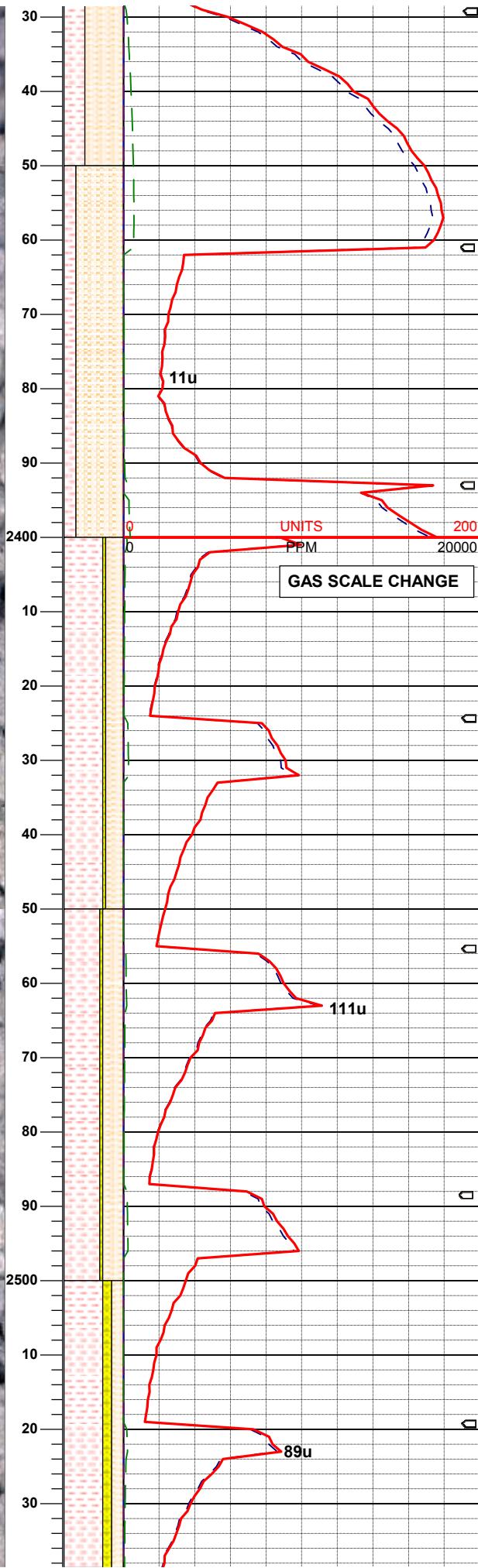
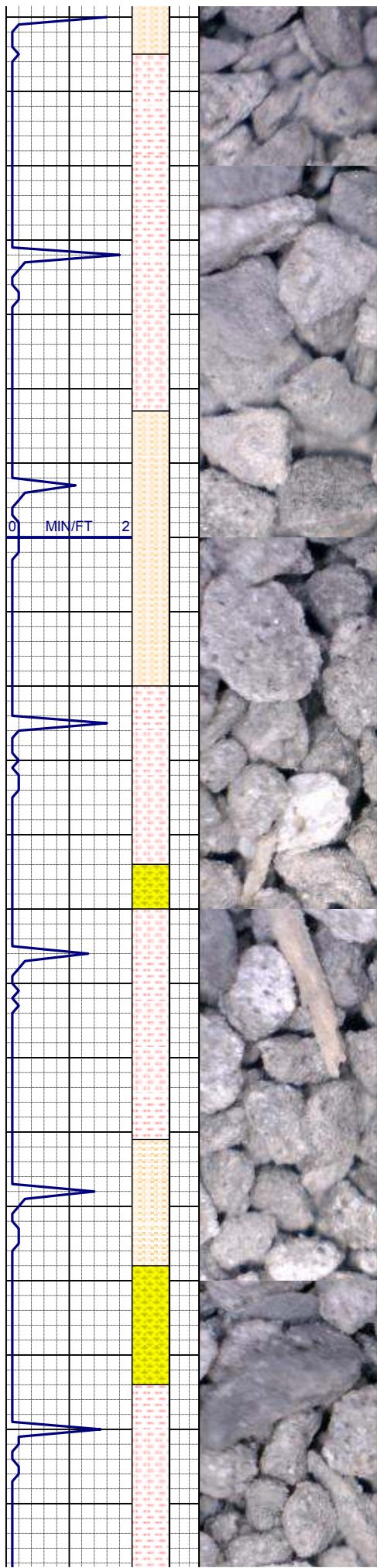
SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit



SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit

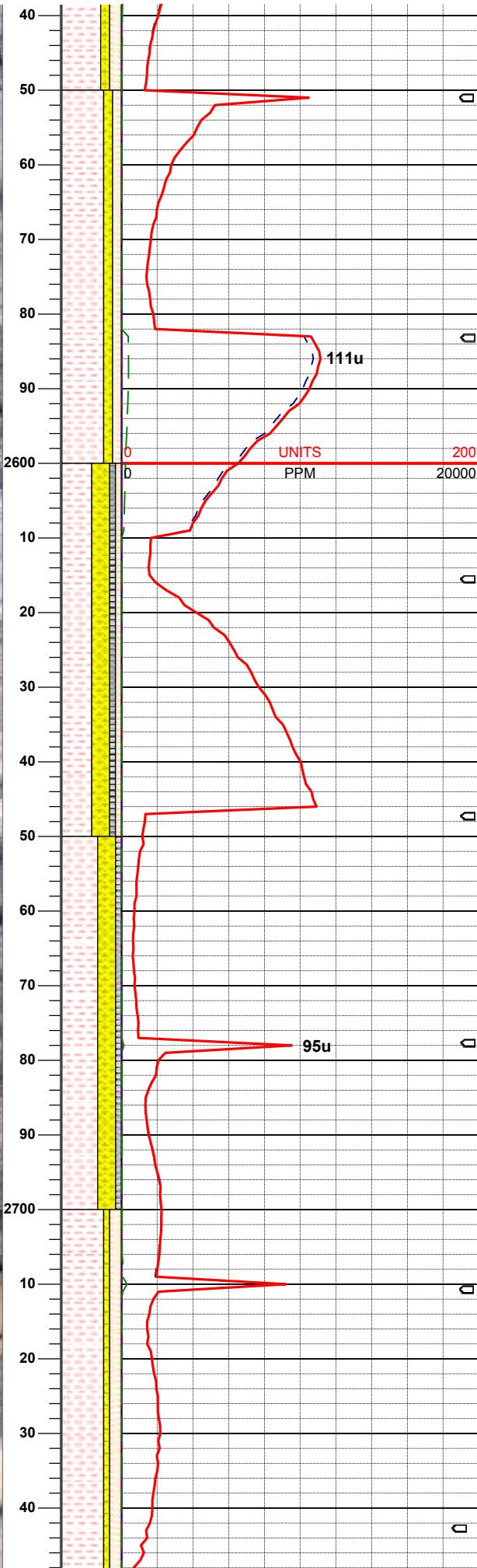
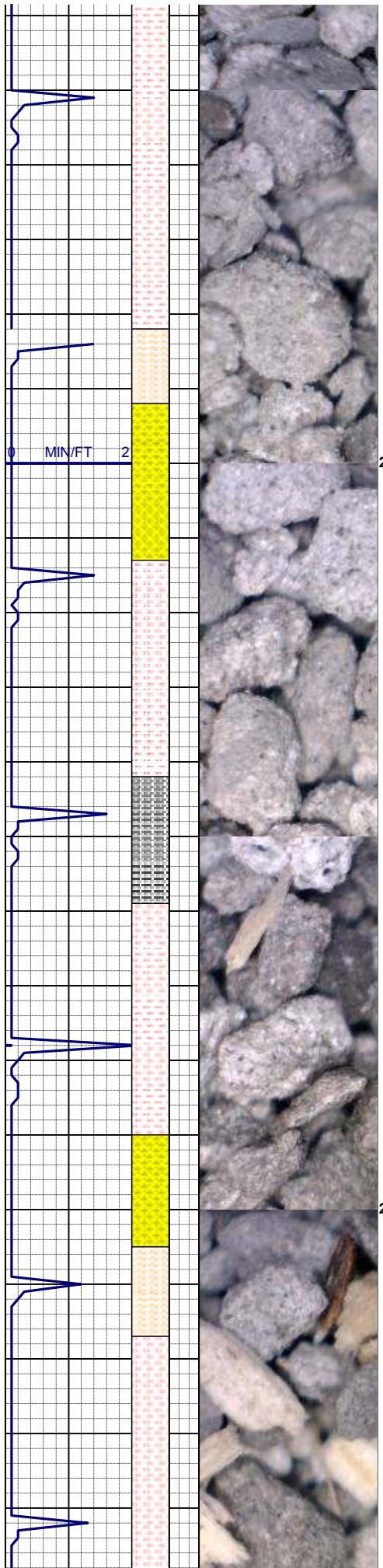
**SURVEY
MD 2392'
INC 0.1°
AZM 326°**

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit; SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit; SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc

**IN WT 8.3 VIS 30
OUT WT 8.3 VIS 30**

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit; SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc



SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit; SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc

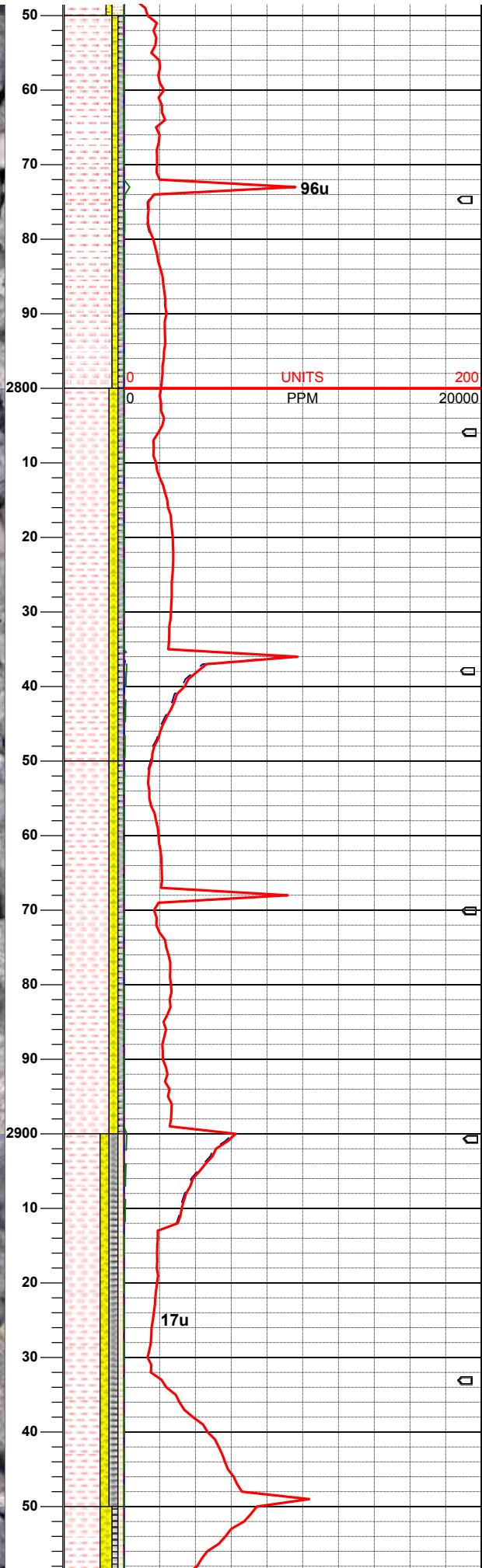
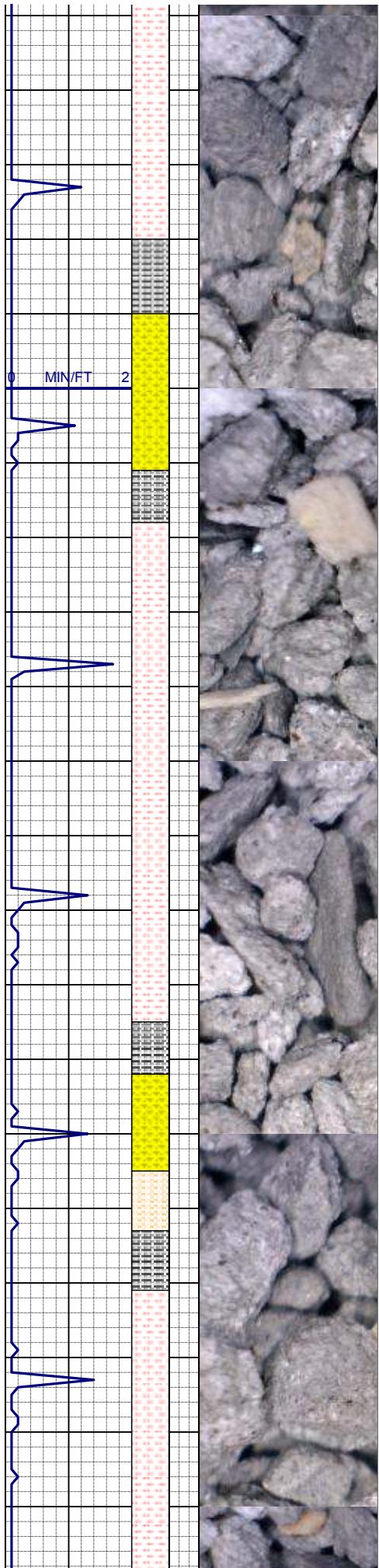
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SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit; SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc; SLTY:SH: It gy - dk gy, sft-hd, gd slty - aren, hom, brit, sbpity - sbrd

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc;
SLTY:SH: It gy - dk gy, sft-hd, gd slty - aren, hom, brit, sbpity - sbrd

**SURVEY
MD 2678'
INC 0.1°
AZM 204°**

**IN WT 8.3 VIS 30
OUT WT 8.3 VIS 30**

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit; SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc



SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc:
SLTY:SH: It gy - dk gy, sft-hd, gd slyt - aren, hom, brit, sbpfty - sbrd

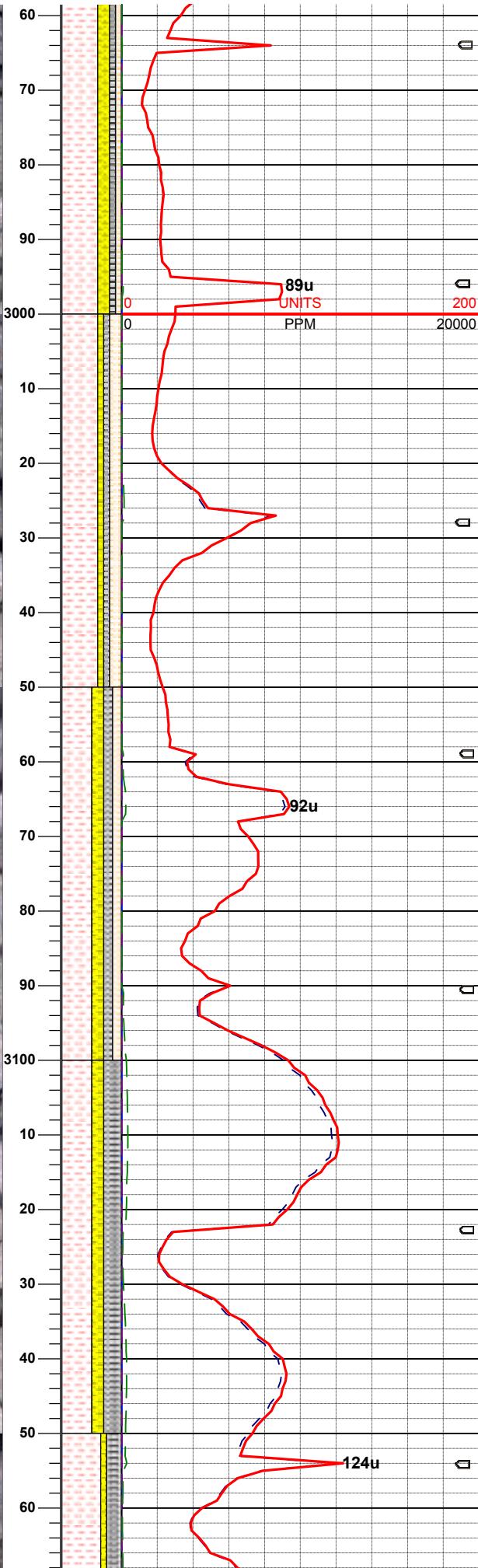
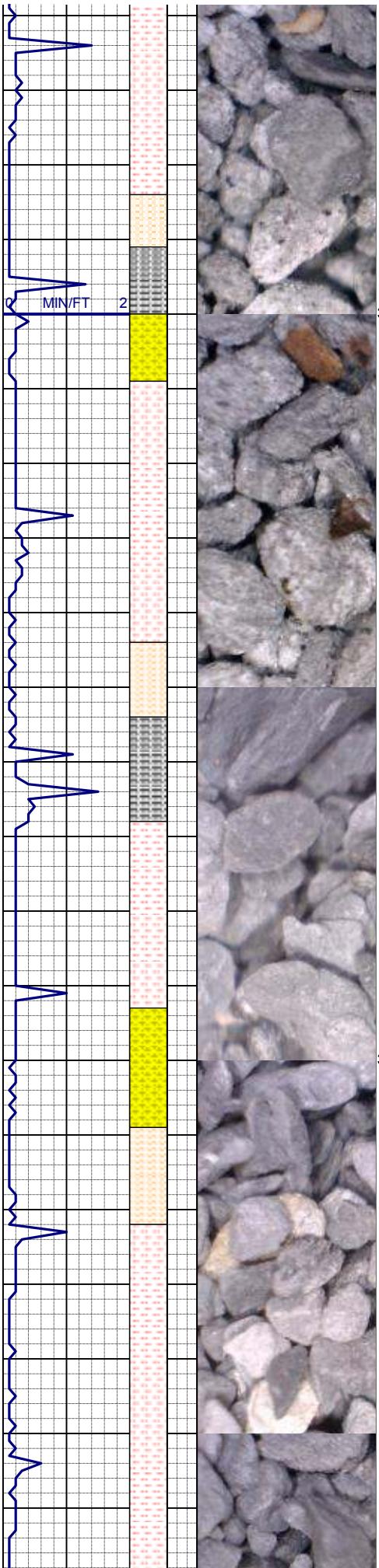
IN WT 8.3 VIS 32
OUT WT 8.3+ VIS 30

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc:
SLTY:SH: It gy - dk gy, sft-hd, gd slyt - aren, hom, brit, sbpfty - sbrd

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc:
SLTY:SH: It gy - dk gy, sft-hd, gd slyt - aren, hom, brit, sbpfty - sbrd

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit; SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc: SLTY:SH: It gy - dk gy, sft-hd, gd slyt - aren, hom, brit, sbpfty - sbrd

SURVEY
MD 2963'
INC 0 3°



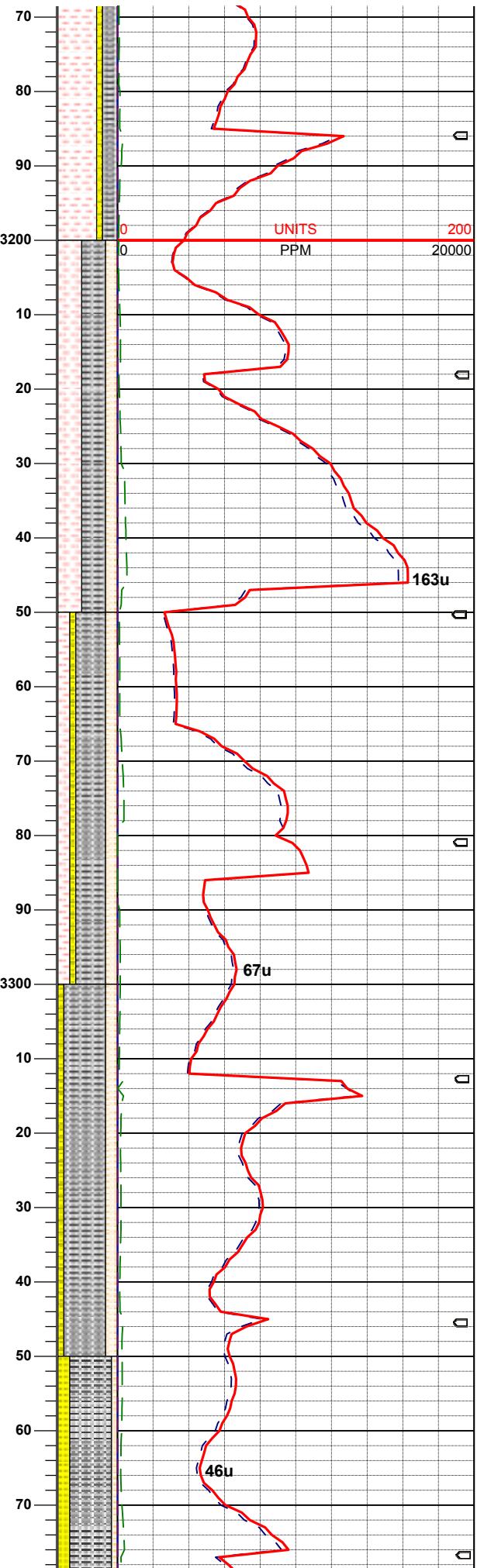
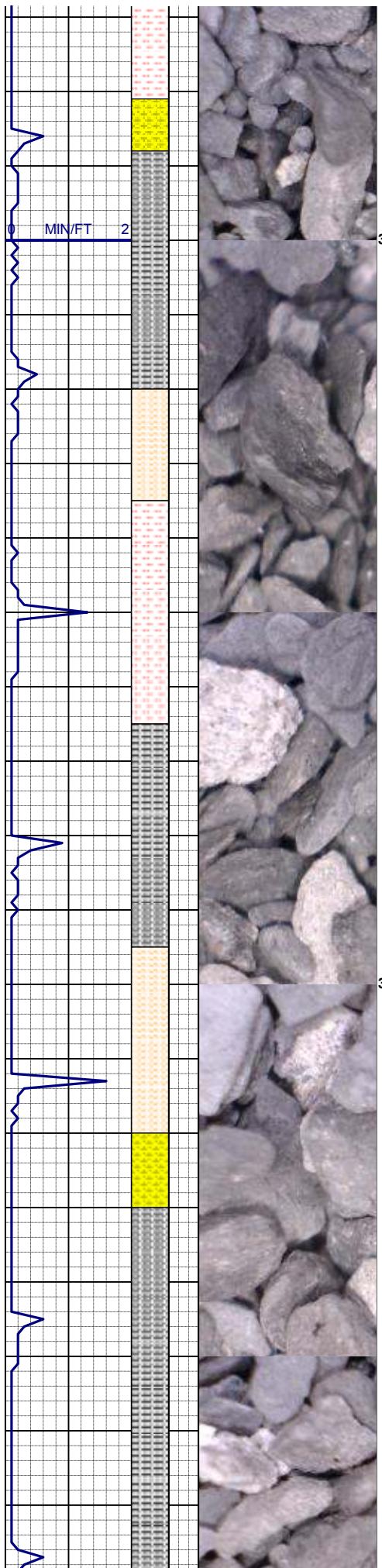
SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit; SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc: SLTY:SH: It gy - dk gy, sft-hd, gd slty - aren, hom, brit, sbpity - sbrd

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc:
SLTY:SH: It gy - dk gy, sft-hd, gd slty - aren, hom, brit, sbpity - sbrd

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc: SLTY:SH: It gy - dk gy, sft-hd, gd slty - aren, hom, brit, sbpity - sbrd

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc:
SLTY:SH: It gy - dk gy, sft-hd, gd slty - aren, hom, brit, sbpity - sbrd

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;



**SURVEY
MD 3279'
INC 0.3°
AZM 133.2°**

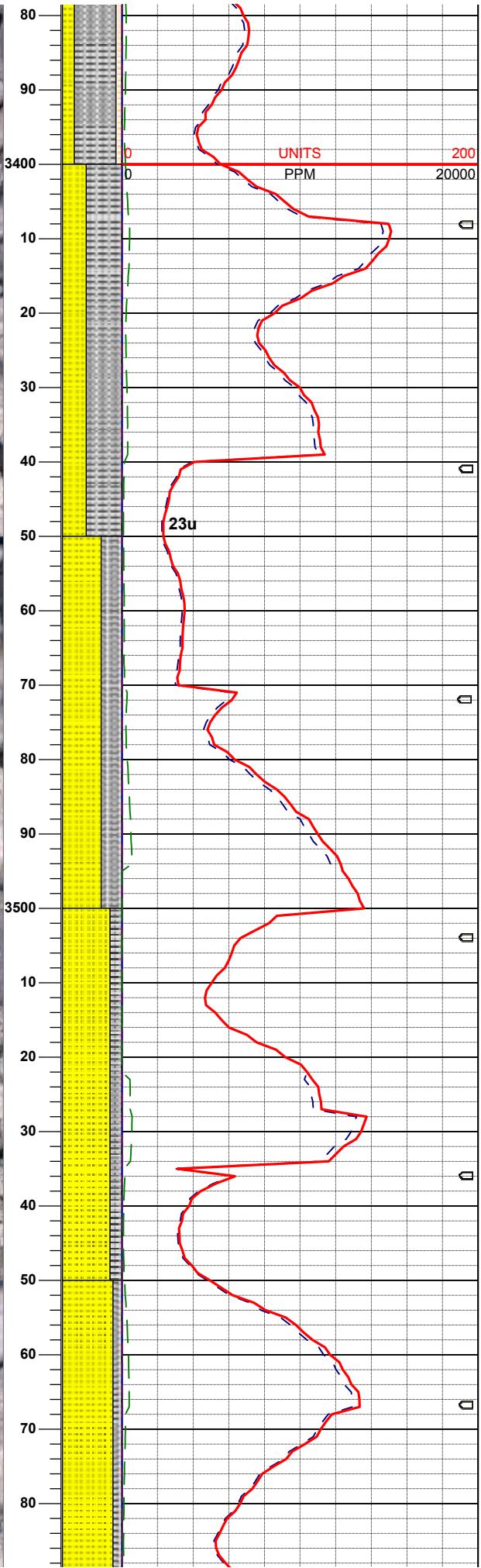
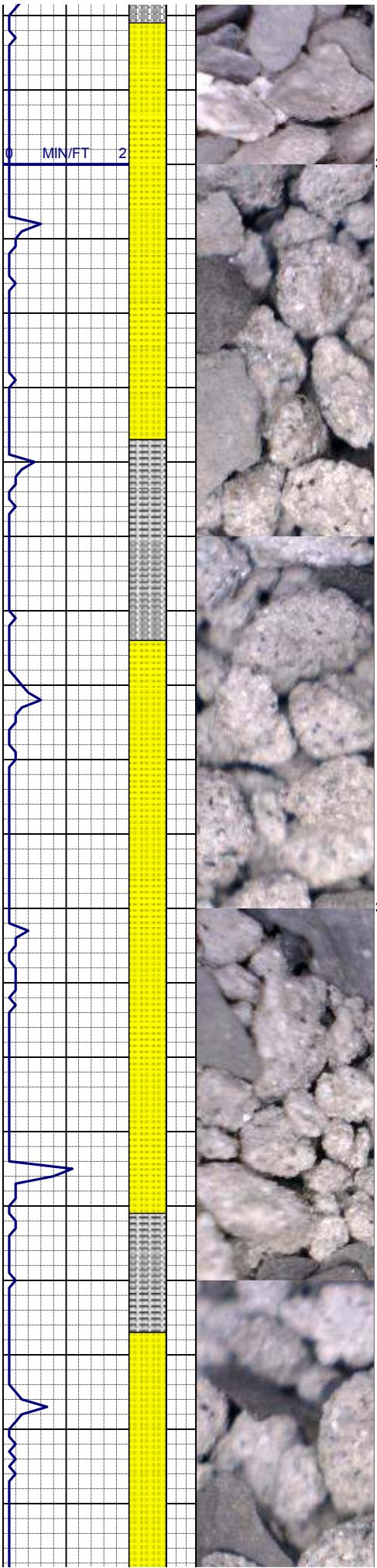
SHLY:SS: wh, s&p, gy, vf-f gr, mtx, cly cmt, mtx, brit, sl calc;
SLTY:SH: It gy - dk gy, sft-hd, gd slyt - aren, hom, brit, sbplty - sbrd

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit; SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc; SLTY:SH: It gy - dk gy, sft-hd, gd slyt - aren, hom, brit, sbplty - sbrd

SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt cslt;
SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit; SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc; SLTY:SH: It gy - dk gy, sft-hd, gd slyt - aren, hom, brit, sbplty - sbrd

SLTY:SH: It gy - dk gy, sft-hd, gd slyt - aren, hom, brit, sbplty - sbrd; SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit; SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtx, brit, sl calc;

SS: clr, wh, trnsi, occ s&p, f-m gr, sbrnd - sbang, sme rnd, brit - fri, sme lse, sme tgt clus, m - w



srt, mtx: arg, sl calc, occ carb
SLTY:SH: lt gy - dk gy, hd - sft,
gd silt - aren, hom, brit, suplty -
sbrd SHLYSLTST: wh, s&p, gy,
vf-f gr, fri, cly cmt, brits

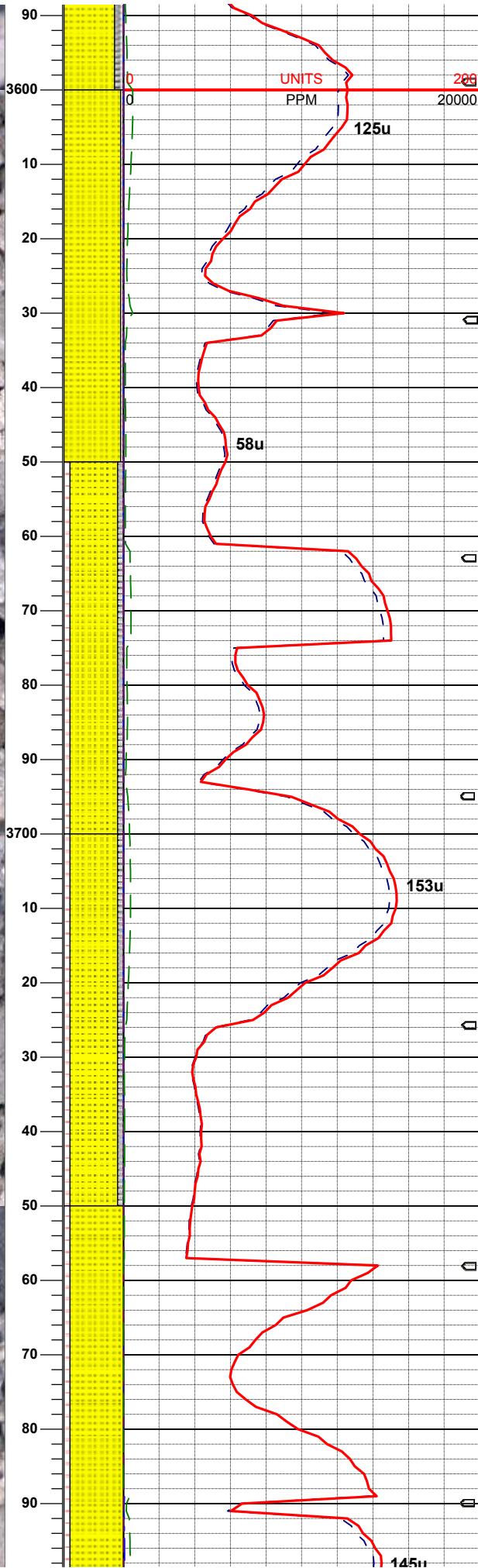
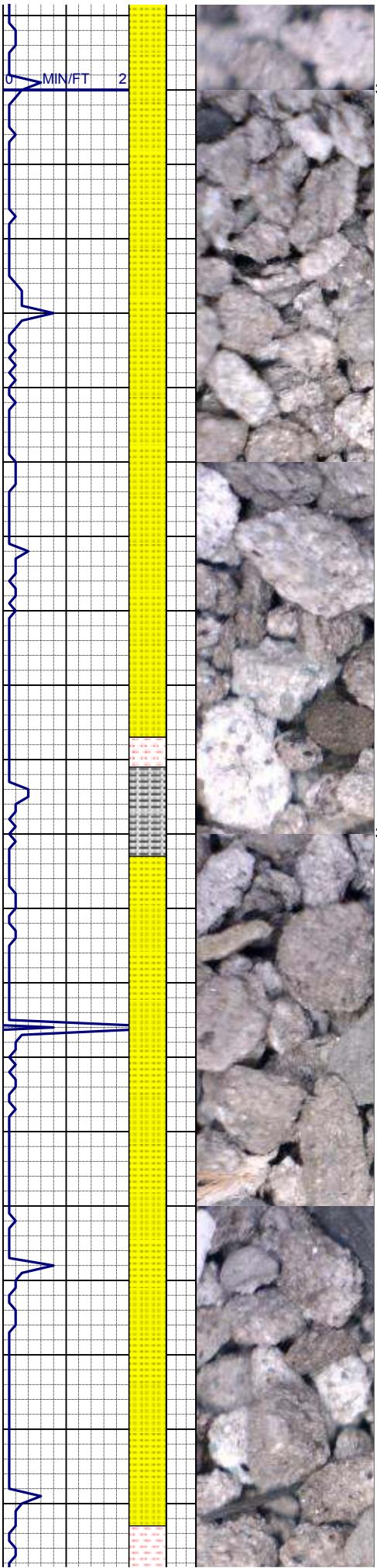
SS: clr, wh, trnsi, occ s&p, f -m
gr, sbrnd - sbang, sme rnd, brit
fri, sme lse, sme tgt clus, m - w
srt, mtx: arg, sl calc, occ carb
SLTY:SH: lt gy - dk gy, hd - sft,
gd silt - aren, hom, brit, suplty -
sbrd

SS: clr, wh, trnsi, occ s&p, f -m
gr, sbrnd - sbang, sme rnd, brit
fri, sme lse, sme tgt clus, m - w
srt, mtx: arg, sl calc, occ carb
SLTY:SH: lt gy - dk gy, hd - sft,
gd silt - aren, hom, brit, suplty -
sbrd

**SURVEY
MD 3501'
INC 1.5°
AZM 131.2°**

SS: clr, wh, trnsi, occ s&p, f -m
gr, sbrnd - sbang, sme rnd, brit
fri, sme lse, sme tgt clus, m - w
srt, mtx: arg, sl calc, occ carb
SLTY:SH: lt gy - dk gy, hd - sft,
gd silt - aren, hom, brit, suplty -
sbrd

SS: clr, wh, trnsi, occ s&p, f -m
gr, sbrnd - sbang, sme rnd, brit
fri, sme lse, sme tgt clus, m - w
srt, mtx: arg, sl calc, occ carb
SLTY:SH: lt gy - dk gy, hd - sft,
gd silt - aren, hom, brit, suplty -
sbrd



IN WT 8.7 VIS 32
OUT WT 8.8 VIS 32

SS: clr, wh, trnsl, occ s&p, f -m gr, sbrnd - sbang, sme rnd, brit - fri, sme lse, sme tgt clus, m - w srt, mtx: arg, sl calc, tr glauc
SLTY:SH: It gy - dk gy, hd - sft, gd slyt - aren, hom, brit, suply - sbrd

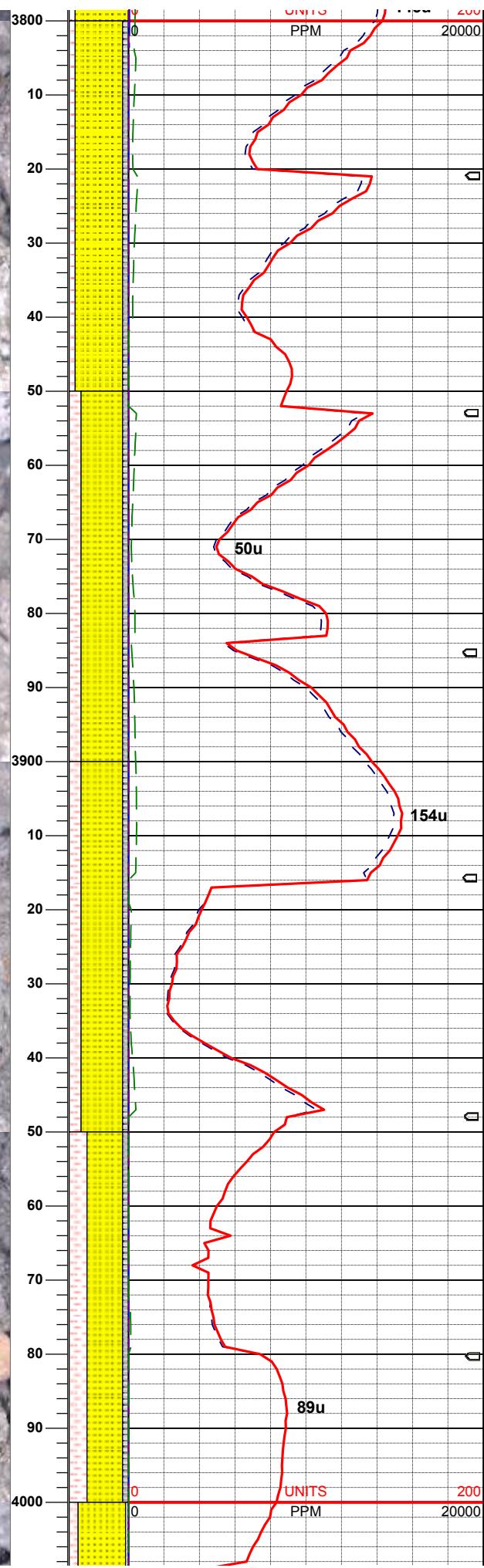
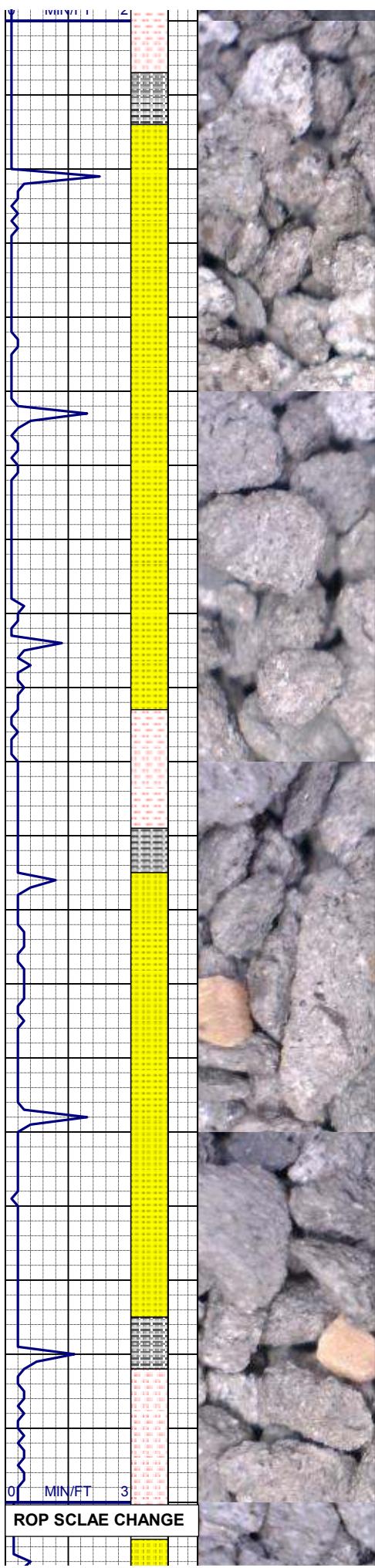
SS: gy-dk gy, clr, wh, trnsl, occ s&p, f -m gr, sbrnd - sbang, sme rnd, brit - fri, sme lse, sme tgt clus, m - w srt, mtx: arg, sl calc
SLTY:SH: It gy - dk gy, hd - sft, gd slyt - aren, hom, brit, suply - sbrd; SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt c slt;

SS: gy-dk gy, clr, wh, trnsl, occ s&p, f -m gr, sbrnd - sbang, sme rnd, brit - fri, sme lse, sme tgt clus, m - w srt, mtx: arg, sl calc
SLTY:SH: It gy - dk gy, hd - sft, gd slyt - aren, hom, brit, suply - sbrd; SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt c slt;

IN WT 8.7 VIS 38
OUT WT 8.9 VIS 32

SS: gy-dk gy, clr, s&p, sme gn, f -m gr, sbrnd - sbang, sme rnd, brit - fri, sme lse, sme tgt clus, w srt, mtx: arg, sl calc; SLTST: It gy - gy, clr, s&p, vf-f gr, rthy - wxy, sft, brit, sl calc, cly mtx, w srt

SURVEY
MD 3787'
INC 2.2°
AZM 148.2°



SS: gy-dk gy, clr, s&p, sme gn, f -m gr, sbrnd - sbang, sme rnd, brit - fri, sme lse, sme tgt clus, w srt, mtx: arg, sl calc SLTY:SH: It gy - dk gy, hd - sft, gd slyt - aren, hom, brit, suplty - sbrd; SLTST:It gy- gy, clr, s&p, vf-f gr, rthy - wxy, sft, brit, sl calc, cly mtx, w srt

SS: gy-dk gy, clr, s&p, sme gn, f -m gr, sbrnd - sbang, sme rnd, brit - fri, sme lse, sme tgt clus, w srt, mtx: arg, sl calc SLTY:SH: It gy - dk gy, hd - sft, gd slyt - aren, hom, brit, suplty - sbrd; SLTST:It gy- gy, clr, s&p, vf-f gr, rthy - wxy, sft, brit, sl calc, cly mtx, w srt

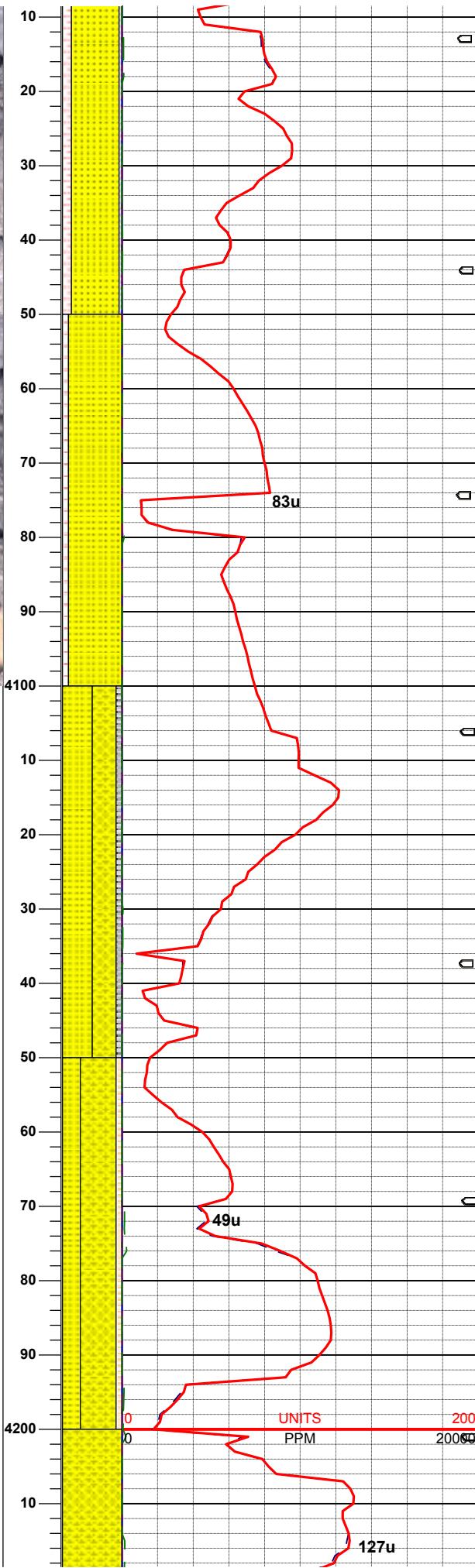
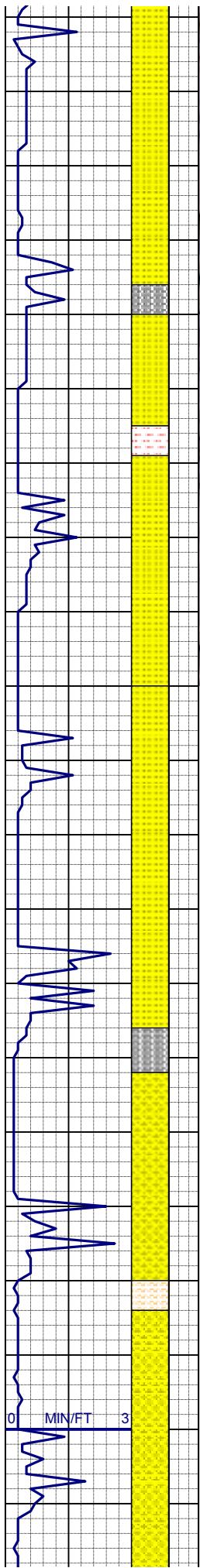
IN WT 8.7 VIS 31
OUT WT 8.9 VIS 31

SS: gy-dk gy, clr, s&p, sme gn, f -m gr, sbrnd - sbang, sme rnd, brit - fri, sme lse, sme tgt clus, w srt, mtx: arg, sl calc SLTY:SH: It gy - dk gy, hd - sft, gd slyt - aren, hom, brit, suplty - sbrd; SLTST:It gy- gy, clr, s&p, vf-f gr, rthy - wxy, sft, brit, sl calc, cly mtx, w srt

SS: gy-dk gy, clr, wh, trns, occ s&p, sme gn, f -m gr, sbrnd - sbang, sme rnd, brit - fri, sme lse, sme tgt clus, m - w srt, mtx: arg, sl calc SLTY:SH: It gy - dk gy, hd - sft, gd slyt - aren, hom, brit, suplty - sbrd; SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt

SURVEY
MD 3979'
INC 2.9°
AZM 151.2°

IN WT 8.7 VIS 35
OUT WT 8.9 VIS 32



SS: gy-dk gy, clr, wh, trnsl, occ s&p, sme gn, f - m gr, sbrnd - sbang, sme rnd, brit - fri, sme lse, sme tgt clus, m - w srt, mtx: arg, sl calc; SLTY:SH: lt gy - dk gy, hd - sft, gd sity - aren, hom, brit, suply - sbrd; SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt

SS: lt gy-dk gy, clr, wh, occ s&p, sme gn, f - m gr, sbrnd - sbang, sme rnd, brit - fri, sme lse, sme tgt clus, m - w srt, mtx: arg, sl calc; SLTST: gy, rthy - wxy, sft, brit, sl calc, cly mtx, w srt

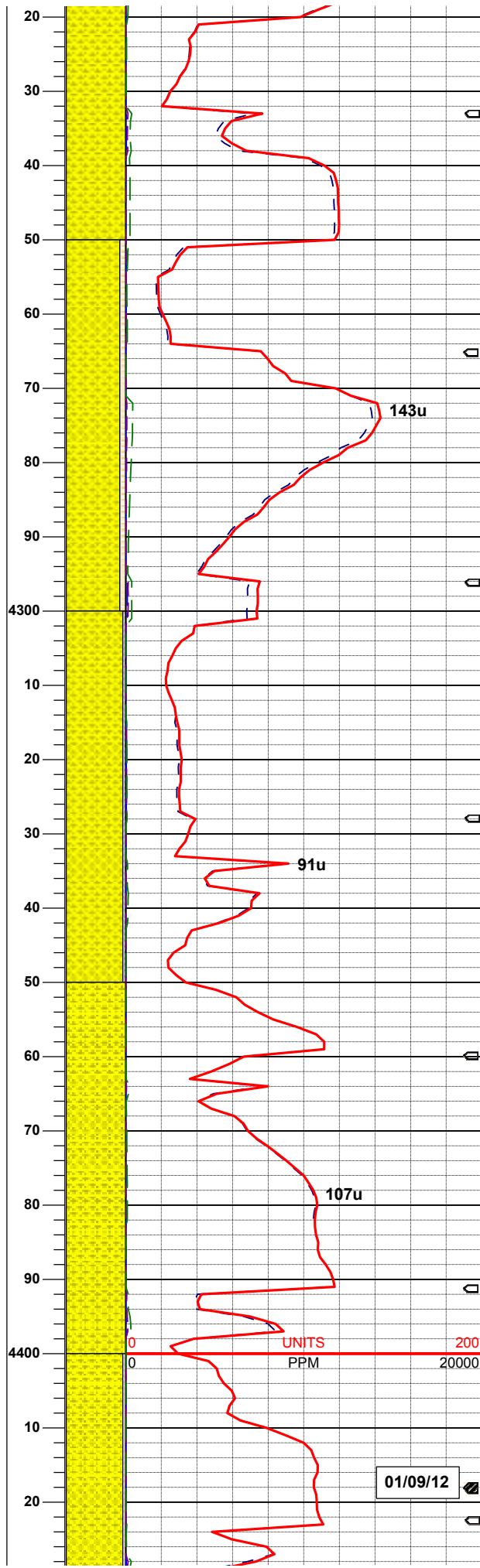
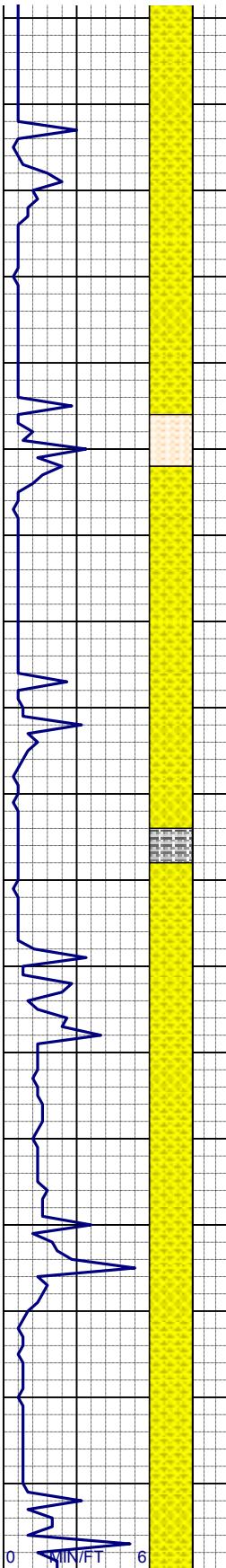
SHLY:SS: lt gy- gy, wh, s&p, vf-f gr, fri, cly cmt, brit, sl calc; SLTY:SH: lt gy - dk gy, sft-hd, gd sity - aren, hom, brit, sbpnty - sbrd

**SURVEY
MD 4137'
INC 2.7°
AZM 158°**

VISIBLE OIL

SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, brit, v sl calc; SLTY:SH: lt gy - dk gy, sft-hd, gd sity - aren, hom, brit, sbpnty - sbrd; SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit

**IN WT 8.3 VIS 28
OUT WT 8.3 VIS 28**



SHLY:SS: It gy- gy, wh, s&p, , vf-f gr, fri, cly cmt, brit, v sl calc

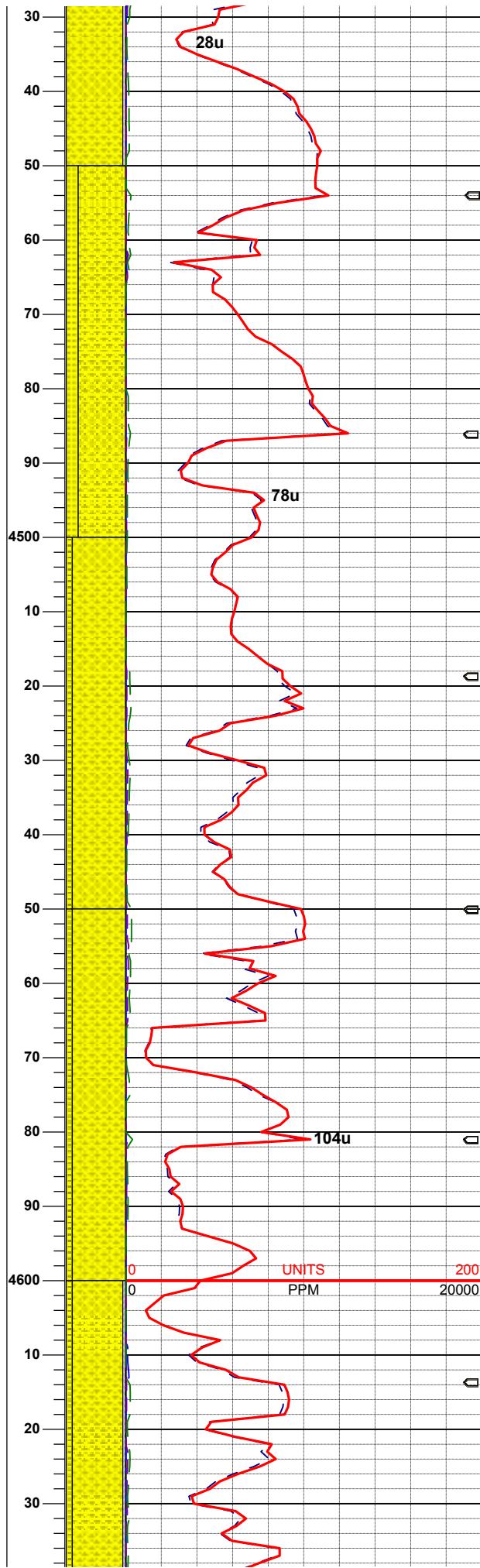
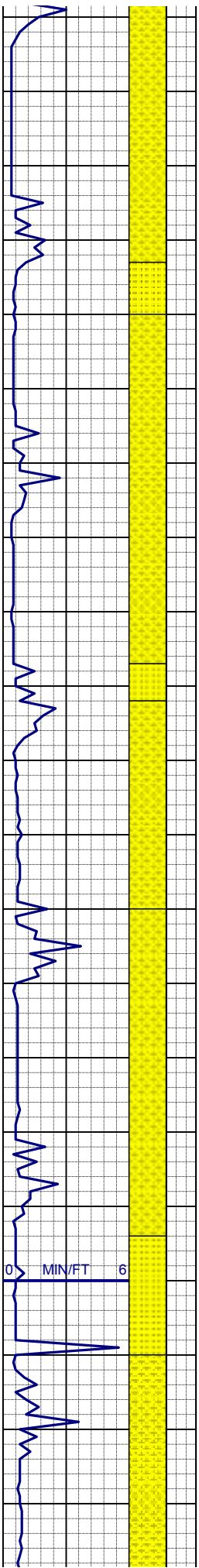
SHLY:SS: It gy- gy, wh, s&p, , vf-f gr, fri, cly cmt, brit, v sl calc; SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit

SHLY:SS: wh, s&p, gy, vf-f gr, fri, cly cmt, mtv, brit, v sl calc; SLTY:SH: It gy - dk gy, sft-hd, gd sity - aren, hom, brit, sbpity - sbrd

**SURVEY
MD 4328'
INC 3.1°
AZM 152°
TVD 4296**

SHLY:SS: It gy- gy, wh, s&p, , vf-f gr, fri, cly cmt, brit, w srt, v sl calc

SHLY:SS: It gy- gy, wh, s&p, , vf-f gr, fri, cly cmt, brit, w srt, v sl calc; SHLYSLTST: wh, s&p, gy, vf-f gr, fri, cly cmt, brit



VI-I gr, in, cly cmt, dril

VISIBLE OIL

**IN WT 8.5 VIS 28
OUT WT 8.6 VIS 28**

SHLY:SS: It gy- gy, wh, s&p, , vf-f gr, fri, cly cmt, brit,w srt, v sl calc; SS: clr, gy, wh, s&p, f -m gr, sbrnd - sbang, sme rnd, brit - fri, lse- tgt clus, m - w srt, mtx: arg, sl calc

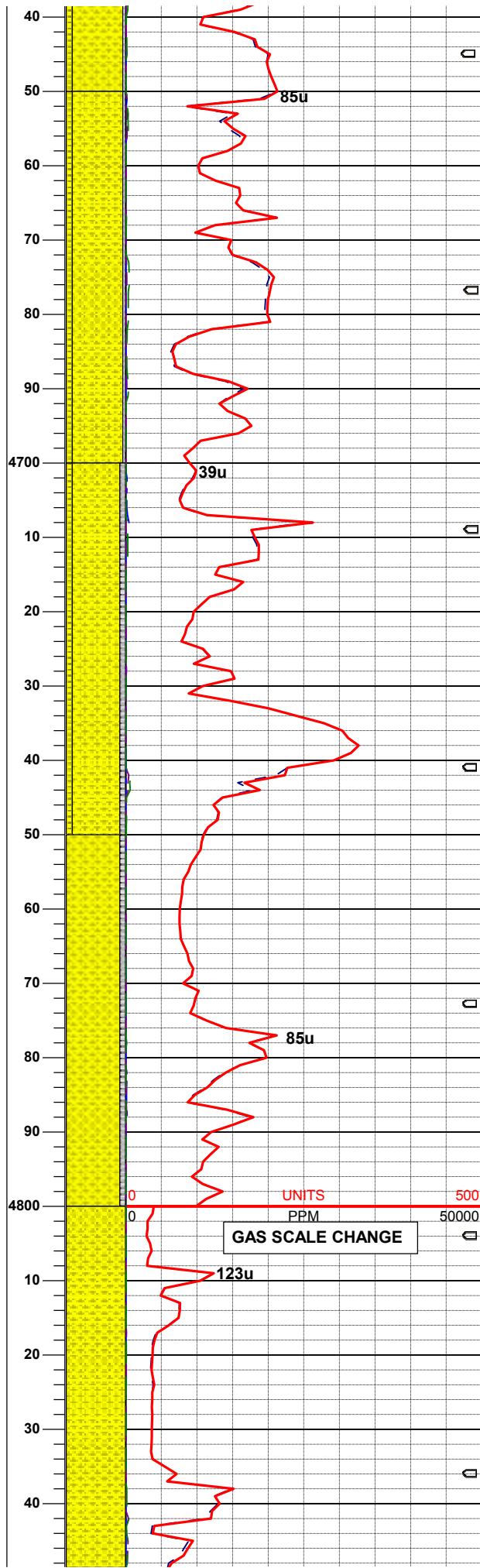
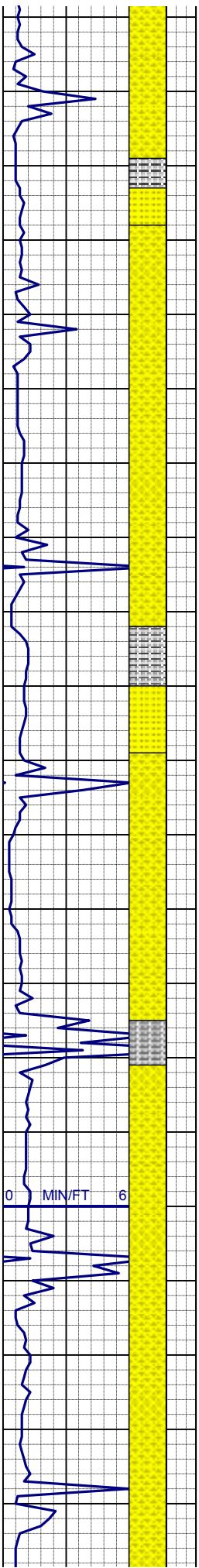
**SURVEY
MD 4517'
INC 3.2°
AZM 147°
TVD 4485'**

SHLY:SS: It gy- gy, wh, s&p, , vf-f gr, fri, cly cmt, w srt, brit, v sl calc; SS: clr, gy, wh, s&p, f -m gr, sbrnd - sbang, sme rnd, brit - fri, lse- tgt clus, m - w srt, mtx: arg, sl calc

**IN WT 8.6 VIS 28
OUT WT 8.6 VIS 28**

SHLY:SS: It gy- gy, wh, s&p, , vf-f gr, fri, cly cmt, w srt, brit, v sl calc; SS: clr, gy, wh, s&p, f -m gr, sbrnd - sbang, sme rnd, brit - fri, lse- tgt clus, m - w srt, mtx: arg, sl calc

SHLY:SS: It gy- gy, wh, s&p, , vf-f gr, fri, cly cmt, w srt, brit, v sl calc; SS: clr, gy, wh, s&p, f -m gr, sbrnd - sbang, sme rnd, brit - fri, lse- tgt clus, m - w srt, mtx: arg, sl calc



SHLY:SS: It gy- gy, wh, s&p, , vf- f gr, fri, cly cmt, w srt, brit, v sl calc; SS: clr, gy, wh, s&p, f -m gr, sbrnd - sbang, sme rnd, brit - fri, lse- tgt clus, m - w srt, mtx: arg, sl calc; SLTY:SH: It gy - dkgy, hd - sft, hom, brit, suply - sbblk, slyt - aren

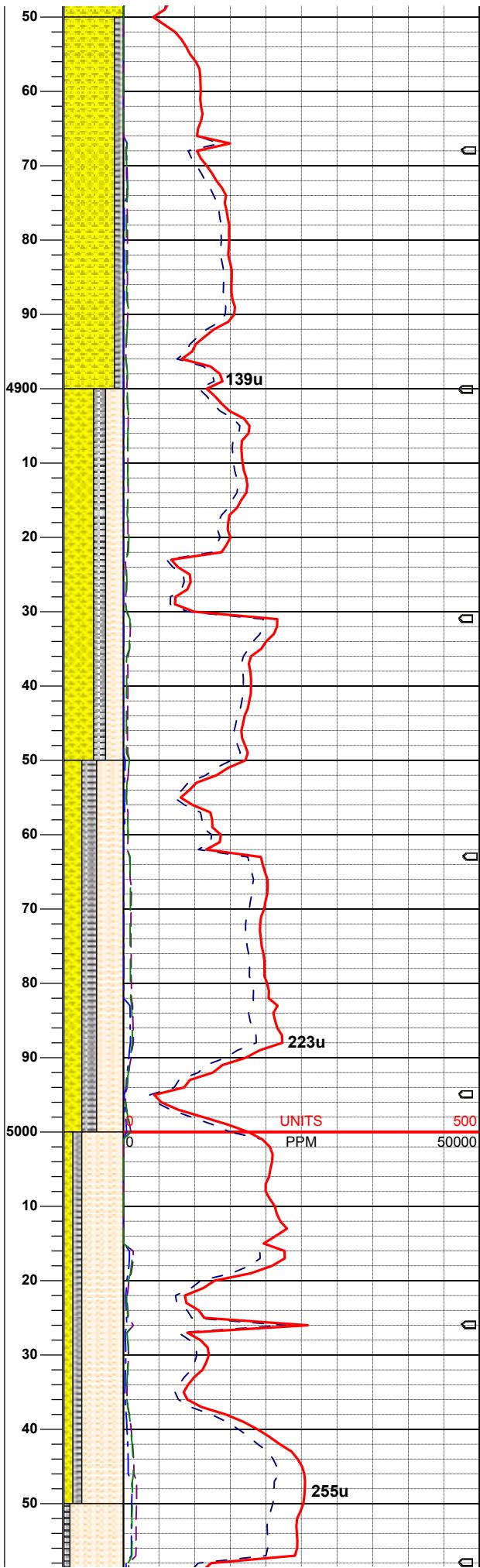
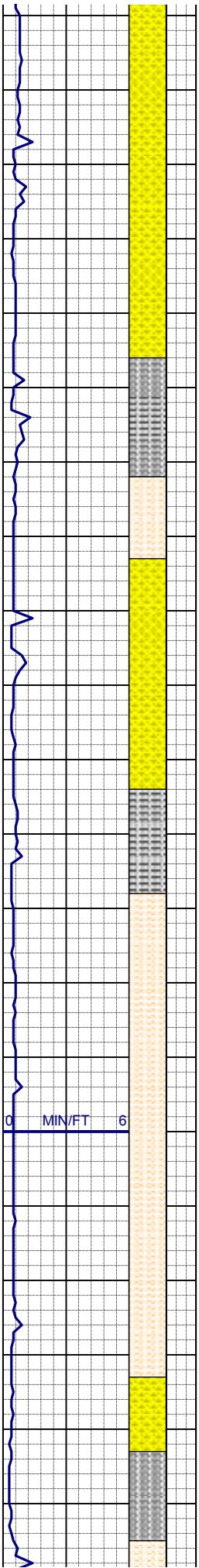
SHLY:SS: It gy- gy, wh, s&p, , vf- f gr, fri, cly cmt, w srt, brit, v sl calc; SS: clr, gy, wh, s&p, f -m gr, sbrnd - sbang, sme rnd, brit - fri, lse- tgt clus, m - w srt, mtx: arg, sl calc; SLTY:SH: It gy - dk gy, hd - sft, gd slyt - aren, hom, brit, suply - sbblk

SHLY:SS: It gy- gy, wh, s&p, , vf- f gr, fri, brit, w srt, v sl calc, cly cmt; SLTY:SH: It gy - dk gy, hd - sft, gd slyt - aren, hom, brit, suply - sbblk

**IN WT 8.6 VIS 27
OUT WT 8.6 VIS 28**

SHLY:SS: It gy- gy, wh, s&p, , vf- f gr, fri, brit, w srt, v sl calc, cly cmt

**IN WT 8.5 VIS 27
OUT WT 8.6 VIS 27**



SURVEY
MD 4832'
INC 2.6°
AZM 156.2°

SHLY:SS: It gy- gy, wh, s&p, vf-f gr, sft, fri, , w srt, v sl calc, cly cmt; SLTY:SH: It gy - gy, m sft - sft, slyt - aren, brit, suplty - sbblk

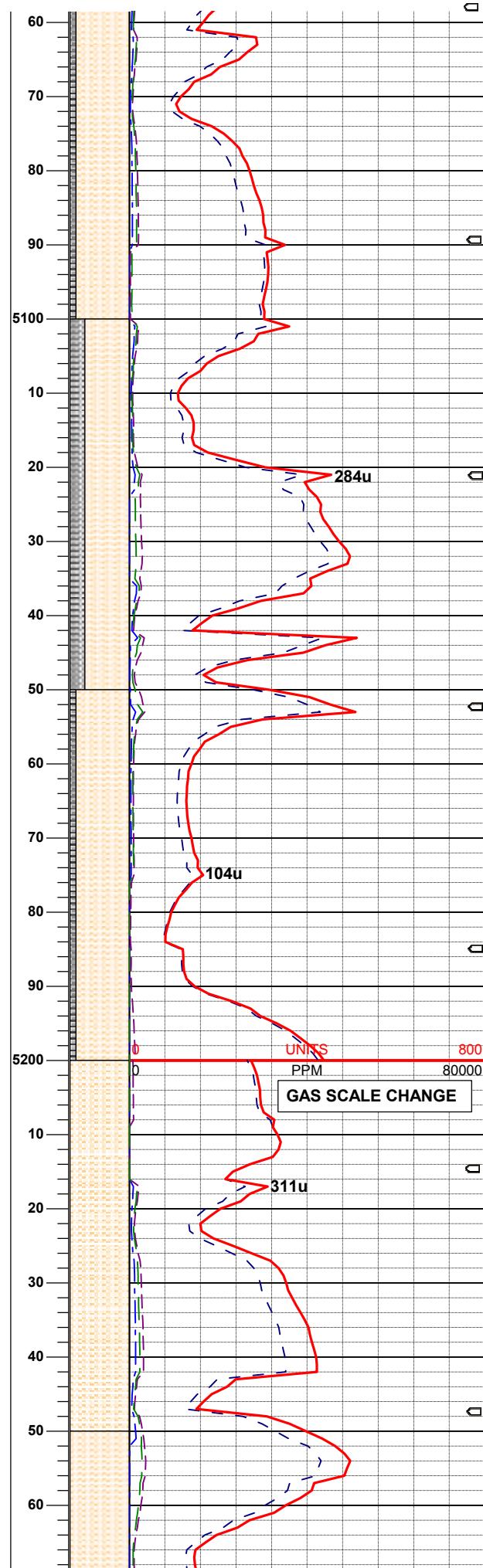
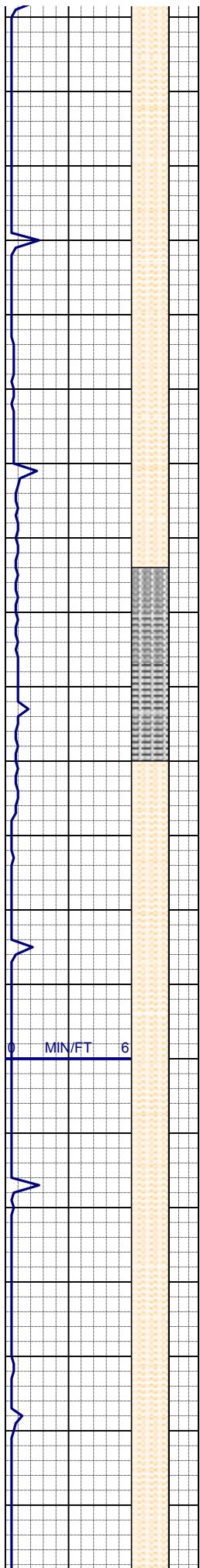
SHLY:SS: It gy- gy, wh, s&p, , vf-f gr, fri, sft, w srt, v sl calc, cly cmt; SHLYSLTST: It gy- gy, s&p, vf-f gr, fri, w srt, cly cmt, brit; grdg to SLTY:SH: It gy - gy, hd - sft, slyt - aren, brit, suplty - sbblk

SHLYSLTST: It gy- gy, s&p, vf-f gr, sft, fri, w srt, cly cmt.; grdg to SLTY:SH: It gy - gy, m sft - sft, fri, slyt - aren, suplty - sbblk; SHLY:SS: clr, s&p, gy, wh, f-m gr, fri, sft, w srt, v sl calc, cly cmt

SURVEY
MD 4990'
INC 2.1°
AZM 155.2°

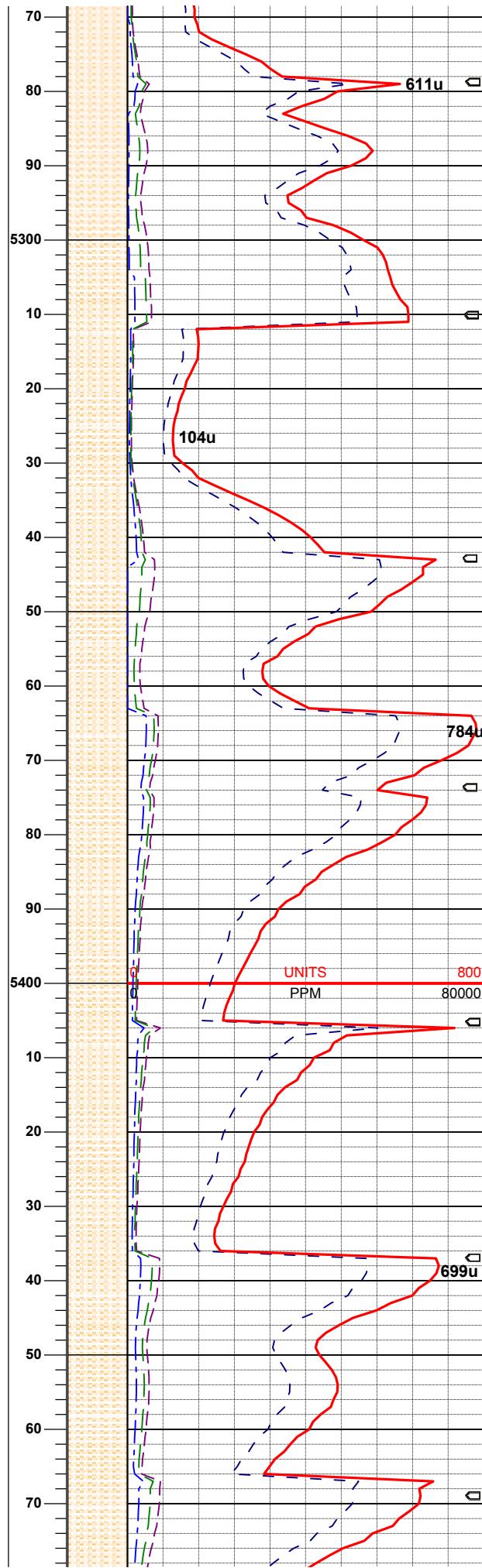
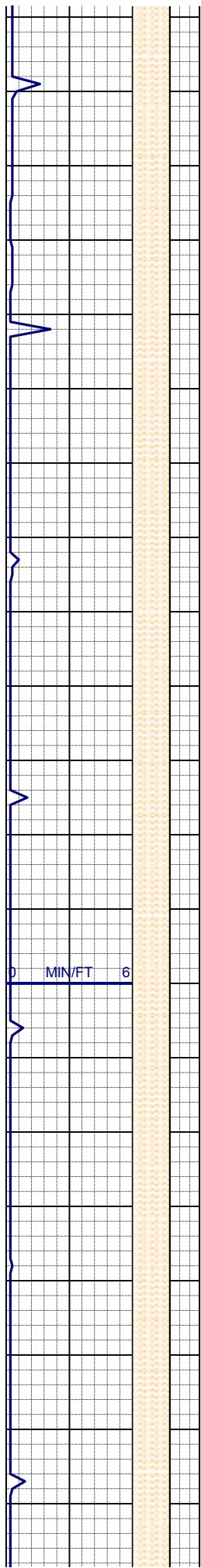
SHLYSLTST: It gy- gy, s&p, vf-f gr, sft, fri, w srt, cly cmt.; grdg to SLTY:SH: It gy - gy, m sft - sft, fri, slyt - aren, suplty - sbblk; SHLY:SS: clr, s&p, gy, wh, f-m gr, fri, sft, w srt, v sl calc, cly cmt

IN WT 8.5 VIS 27
OUT WT 8.6 VIS 28



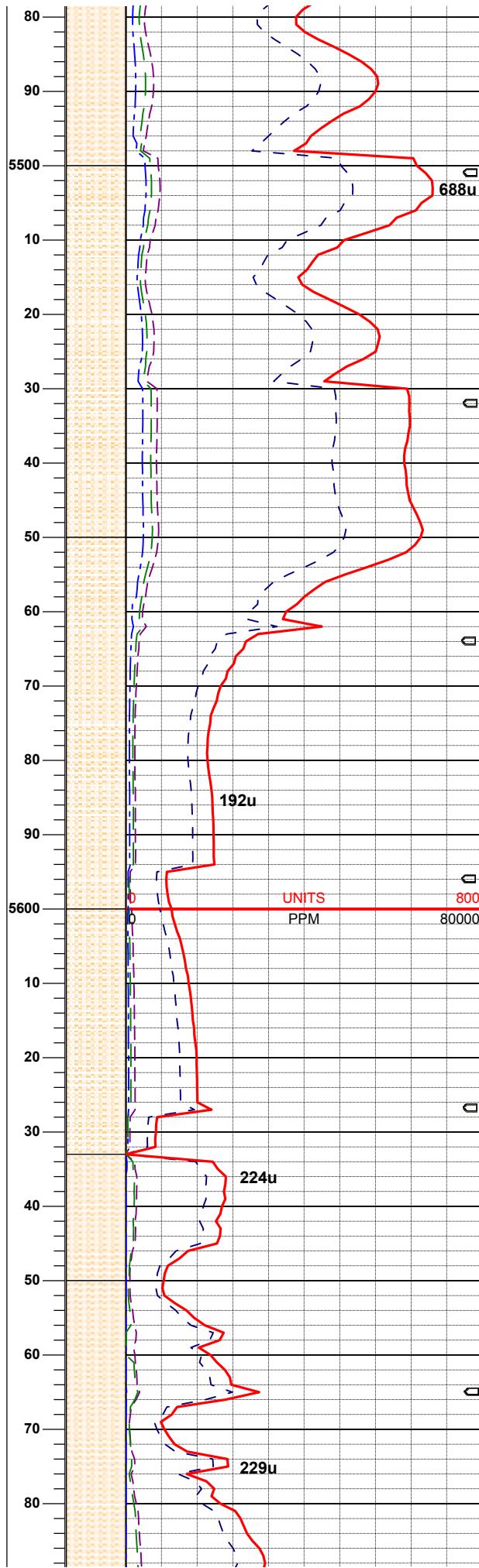
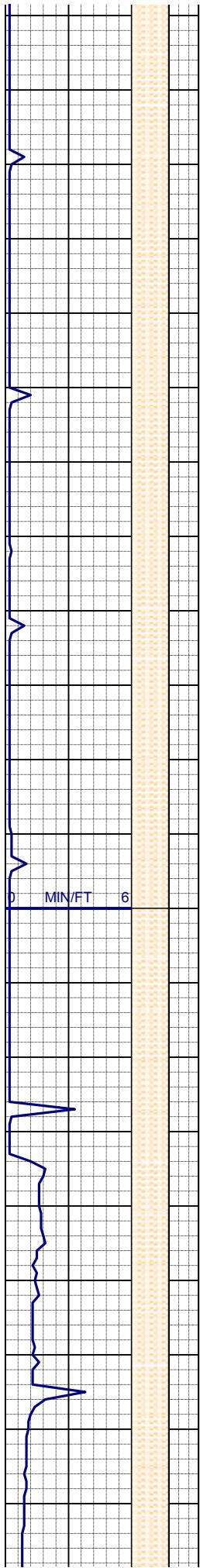
SHLYSLTST: It gy- gy, s&p, vf-f
gr, sft, fri, w srt, cly cmt.; grdg to
SLTY:SH: It gy - gy, m sft - sft,
fri, slyt - aren, suplty - sbblky,
sme bent; wh, bri

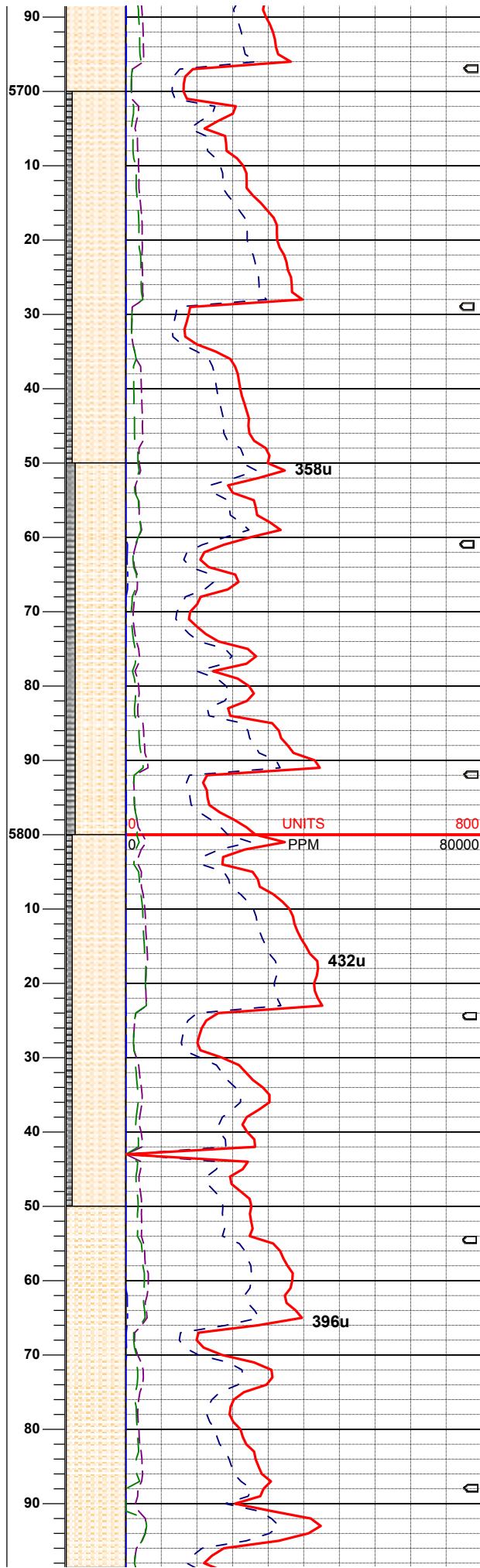
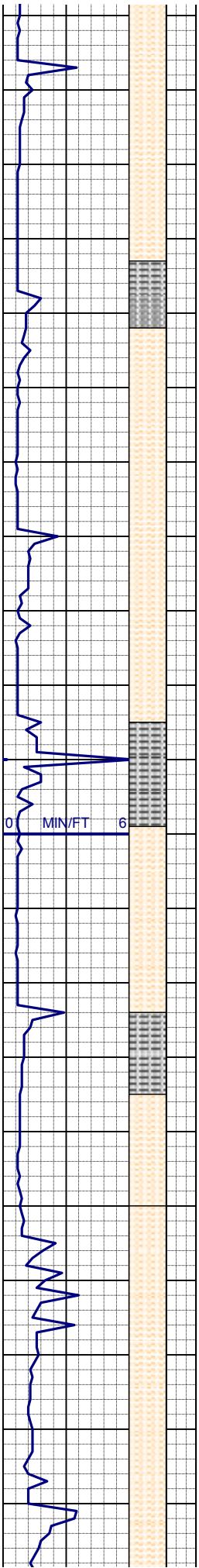
SHLYSLTST: It gy- gy, s&p, vf-f
gr, sft, fri, w srt, cly cmt



SURVEY
MD 5372'
INC 1.6°
AZM 174.2°

IN WT 8.5 VIS 38
OUT WT 8.7 VIS 31





SURVEY
MD 5717'
INC 9.9°
AZM 180.1°
TVD 5714.58'

SHLYSLTST: It gy- gy, s&p, vf-f
gr, sft, fri, w srt, cly cmt,; grdg to
SLTY:SH: It gy - gy, m sft - sft,
fri, silt - aren, suplty - sbblkly, tr
bent

SURVEY
MD 5749'
INC 12.9°
AZM 184.7°
TVD 5745.94'

SHLYSLTST: It gy- gy, s&p, vf-f
gr, sft, fri, w srt, cly cmt,; grdg to
SLTY:SH: It gy - gy, m sft - sft,
fri, silt - aren, suplty - sbblkly, tr
bent

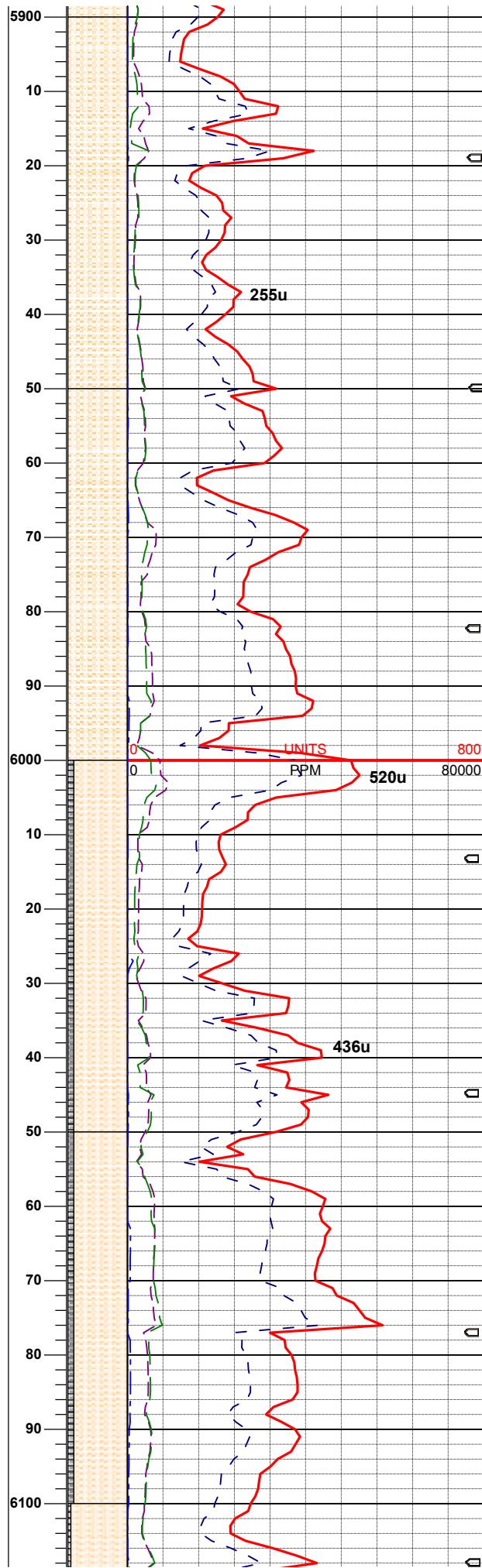
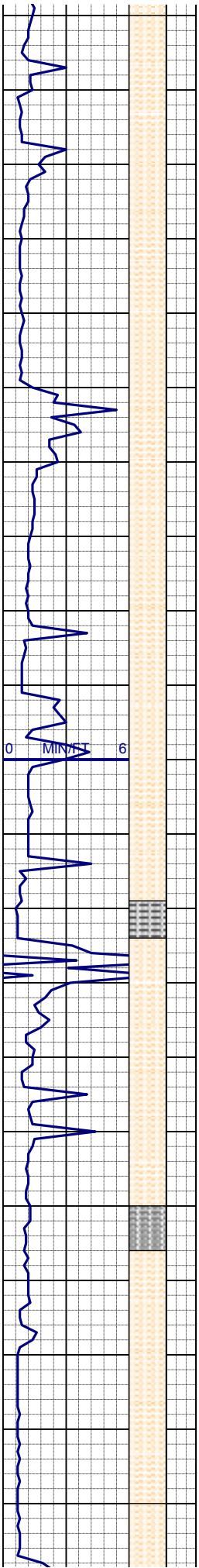
IN WT 8.8 VIS 37
OUT WT 8.8 VIS 36

SURVEY
MD 5812'
INC 17.5°
AZM 184.4°
TVD 5806.72'

SHLYSLTST: It gy- gy, s&p, vf-f
gr, sft, fri, w srt, cly cmt,; grdg to
SLTY:SH: It gy - gy, m sft - sft,
fri, silt - aren, suplty - sbblkly

IN WT 8.9+ VIS 37
OUT WT 8.9 VIS 37

SHLYSLTST: It gy- gy, s&p, vf-f
gr, sft, fri, w srt, cly cmt, sl calc



SURVEY
MD 6002'
INC 33.6°
AZM 178°
TVD 5978'

SHLYSLTST: It gy- gy, s&p, vf-f
gr, sft, fri, w srt, cly cmt, sl calc

SURVEY
MD 6098'
INC 40.8°
AZM 180°
TVD 6055'

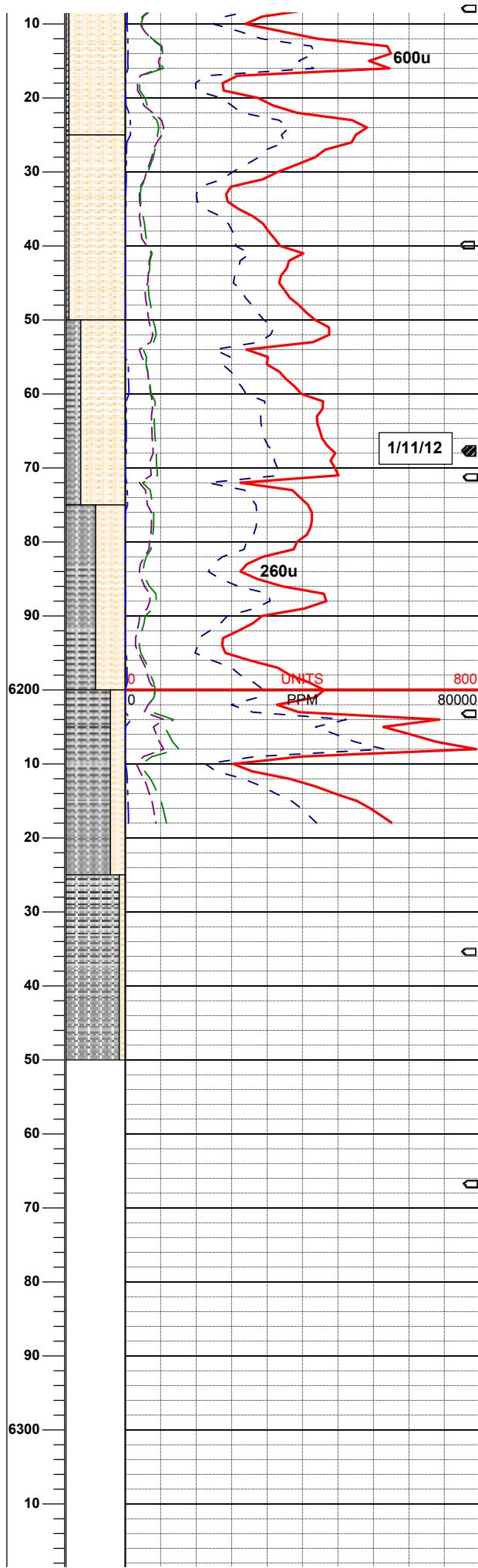
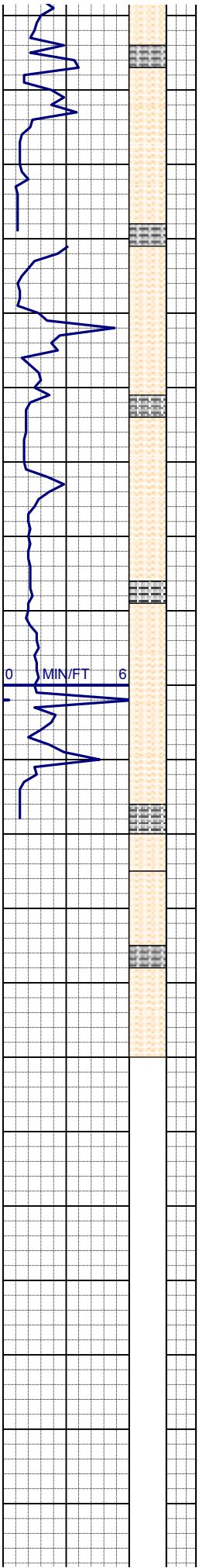
SHLYSLTST: It gy- gy, s&p, vf-f
gr, sft, fri, w srt, cly cmt, sl calc ;
grdg to SLTY:SH: It gy - gy, m sft
- sft, fri, silty - aren, suplty -
sblkly

IN WT 9.0+ VIS 37
OUT WT 9.0 VIS 37

SHLYSLTST: It gy- gy, s&p, vf-f
gr, sft, fri, w srt, cly cmt, sl calc ;
grdg to SLTY:SH: It gy - gy, m sft
- sft, fri, silty - aren, suplty -
sblkly, tr pyr

SURVEY
MD 6098'
INC 40.8°
AZM 180°
TVD 6055'

SHLYSLTST: It gy- gy, s&p, vf-f



gr, sft, fri, w srt, cly cmt, sl calc ;
 grdg to SLTY:SH: It gy - gy, m sft
 - sft, fri, slty - aren, suplty -
 sbblk

IN WT 9.0+ VIS 39
OUT WT 9.0 VIS 39

SHLYSLTST: It gy- gy, s&p, vf-f
 gr, sft, fri, w srt, cly cmt, sl calc ;
 grdg to SLTY:SH: It gy - gy, m sft
 - sft, fri, slty - aren, suplty -
 sbblk

SURVEY
MD 6161'
INC 45.2°
AZM 176°
TVD 6101'

SHLYSLTST: It gy- gy, s&p, vf-f
 gr, sft, fri, w srt, gri, cly cmt, sl
 calc ; grdg to SLTY:SH: It gy -
 gy, m sft - sft, fri, slty - aren,
 suplty - sbblk

IN WT 9.0+ VIS 39
OUT WT 9.0 VIS 39

SLTY:SH: It gy - gy, m sft - sft,
 fri, slty - aren, suplty - sbblk,
 mtx: arg; SHLYSLTST: It gy- gy,
 s&p, vf-f gr, sft, fri, w srt, gri, cly
 cmt, sl calc, bent

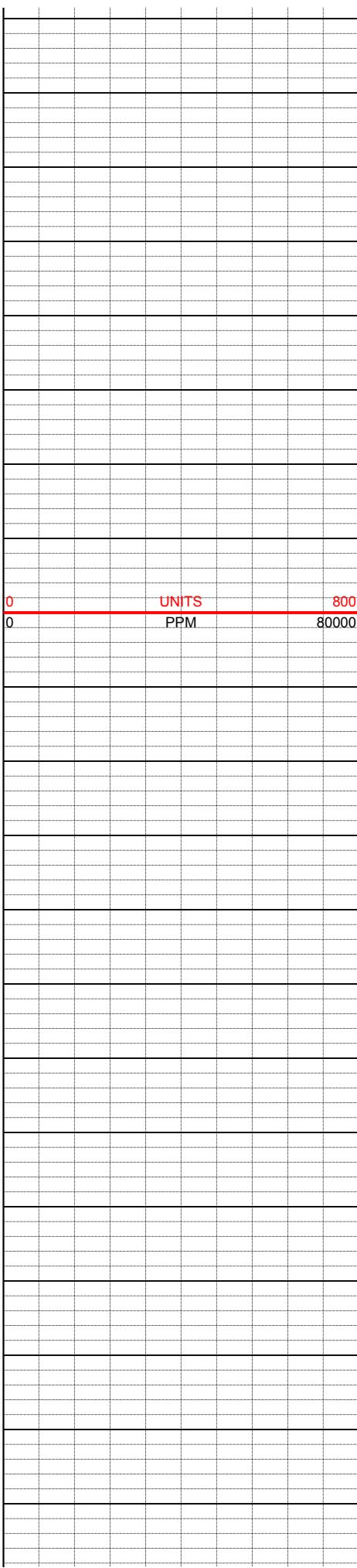
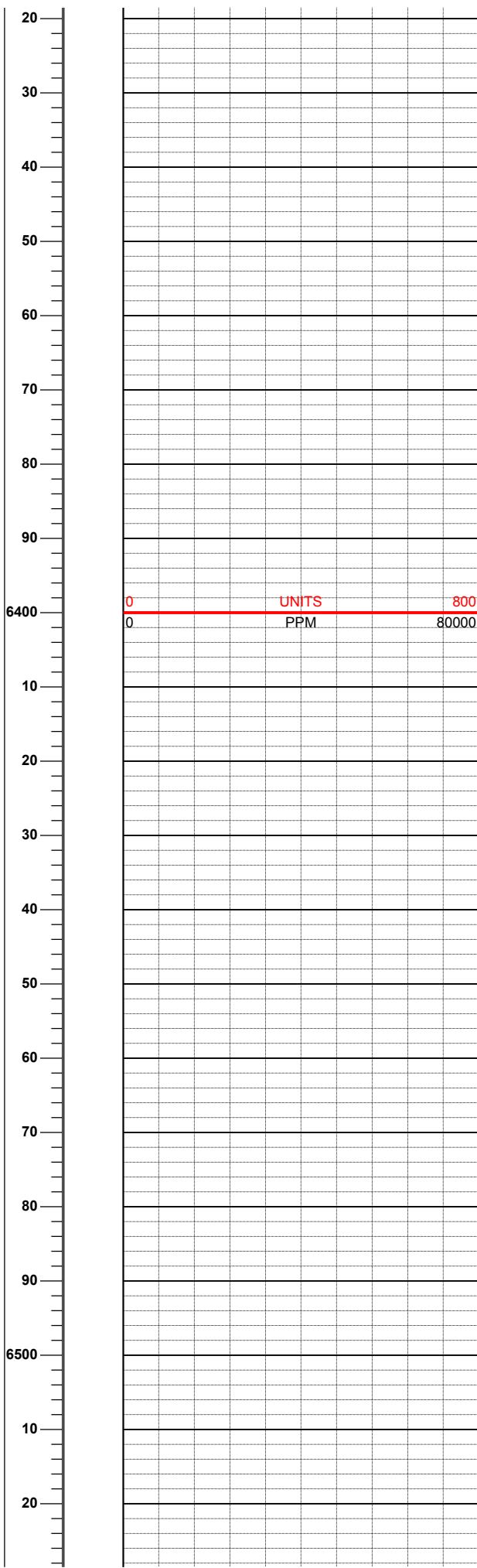
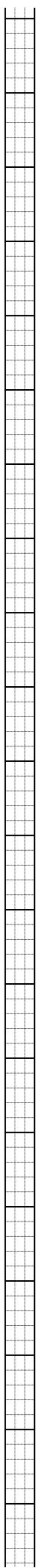
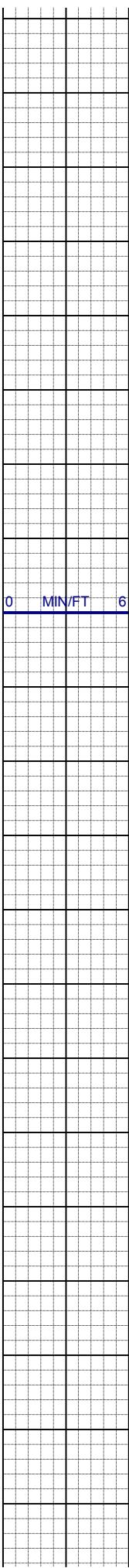
IN WT 9.0+ VIS 39
OUT WT 9.0 VIS 39

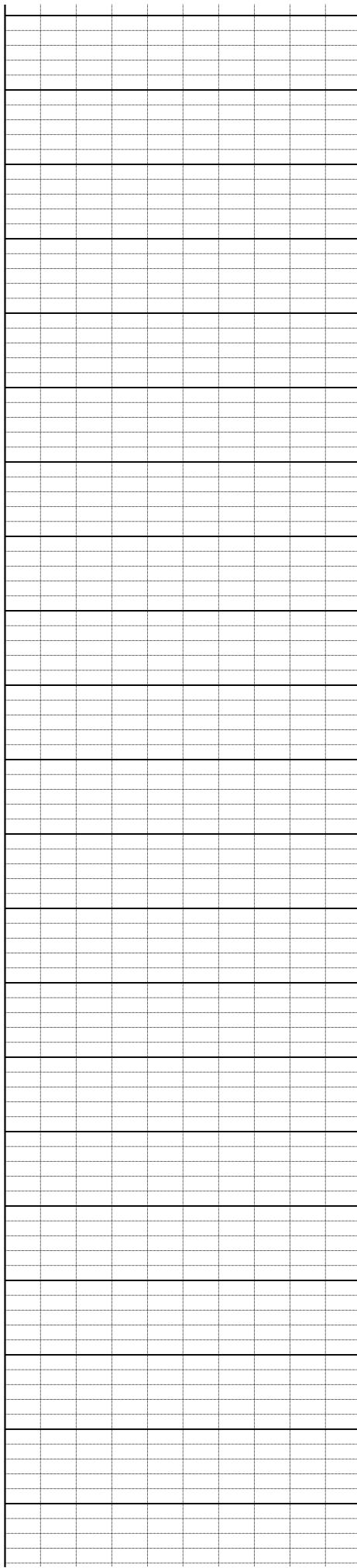
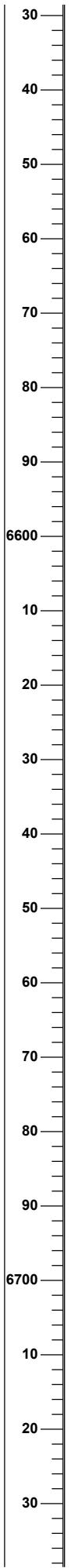
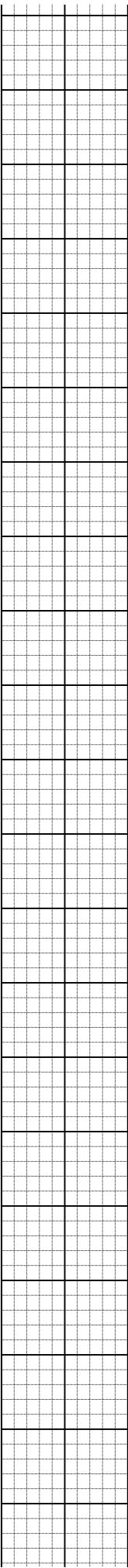
SLTY:SH: It gy - gy, m sft - sft,
 fri, slty - aren, suplty - sbblk,
 mtx: arg; SHLYSLTST: It gy- gy,
 s&p, vf-f gr, sft, fri, w srt, gri, cly
 cmt, sl calc, bent

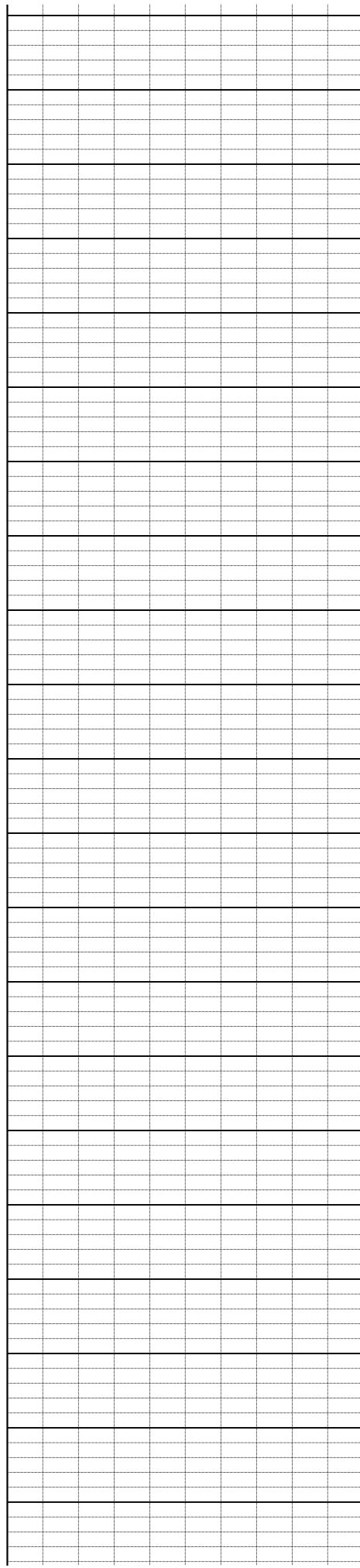
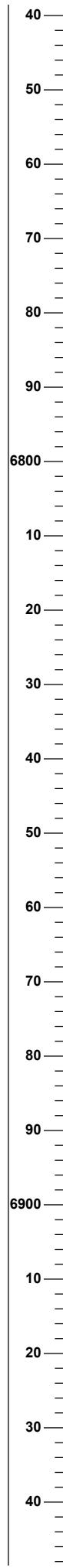
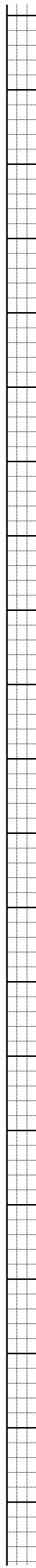
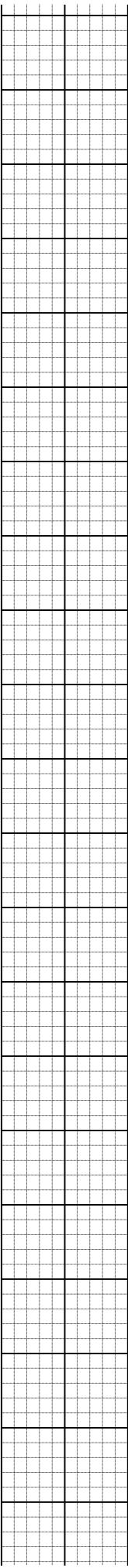
SURVEY
MD 6225'
INC 51.3°
AZM 178°
TVD 6143'

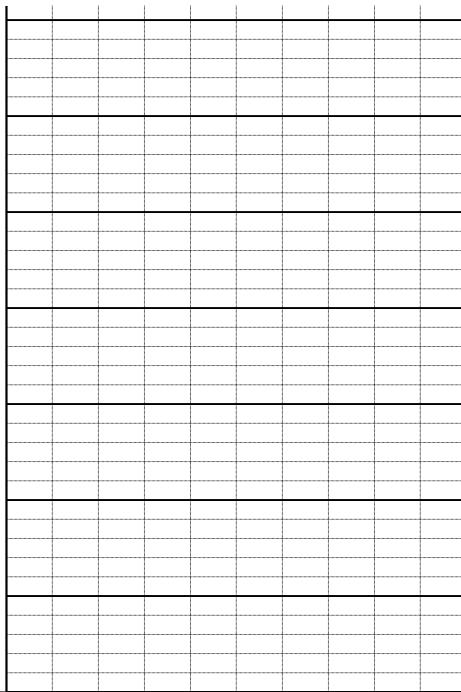
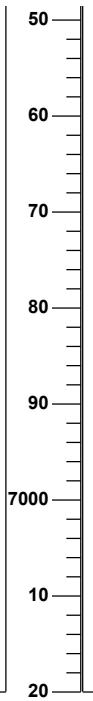
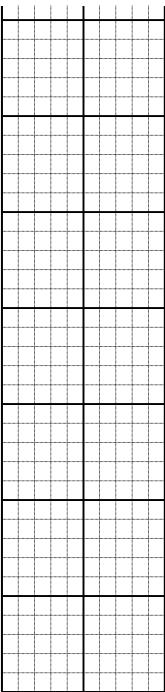
SLTY:SH: It gy - gy, m sft - hrdf,
 fri, slty - aren, suplty - sbblk,
 mtx: arg; SHLYSLTST: It gy- gy,
 s&p, vf-f gr, sft, fri, w srt, gri, cly
 cmt, sl calc, bent

IN WT 9.0+ VIS 39
OUT WT 9.0 VIS 39









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