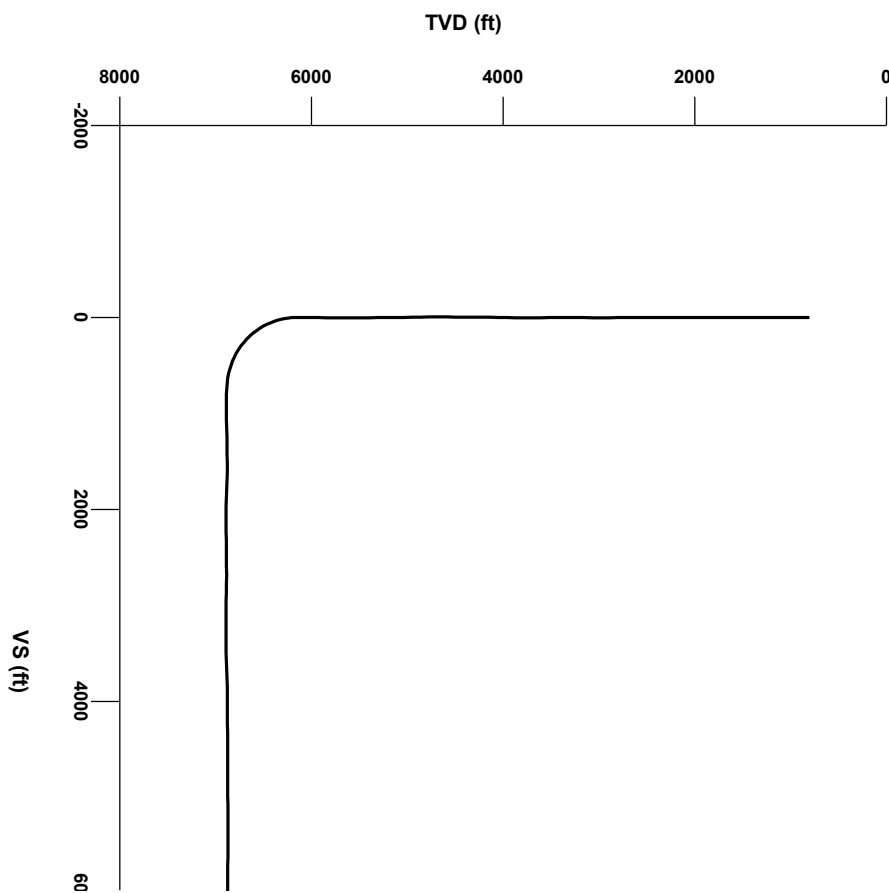


LOG created using LPLOT VH Version 3.0, May 14, 2013, Copyright (C) 1999-2009 Pason Systems Corp.

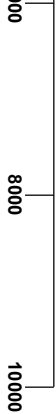
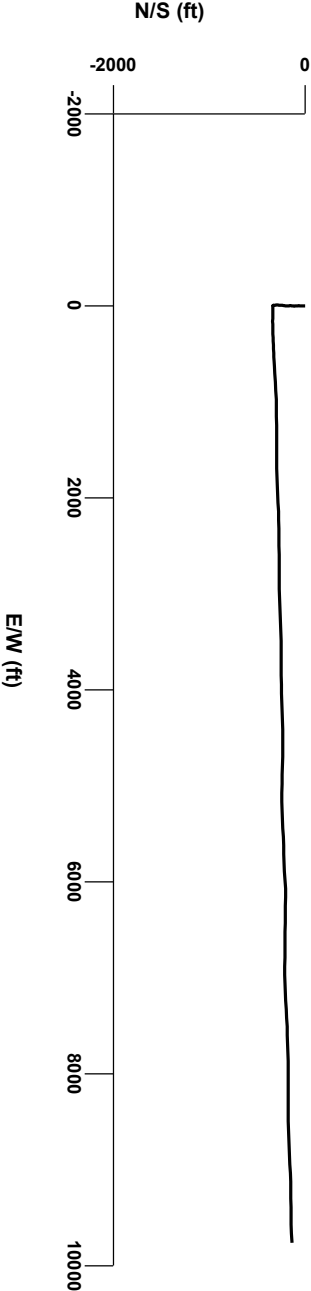
OPERATOR: NOBLE ENERGY INC
WELL: SHABLE USX PC AB11-62-1HNL
LOCATION: SEC11 T7N R64W
COUNTY: WELD
STATE: COLORADO
SPOT: 698' FSL, 250' FWL
ELEVATION: 4818'GL, 4834'KB
FIELD: WATTENBERG
SPUD DATE: 5/1/13
TD DATE: 5/14/13
DATES LOGGED: 5/3/13 - 5/14/13
DEPTHS LOGGED: 800' - 16406'
GEOLOGISTS: GARY MYERS, TED STOCKWELL
DRILLING FLUID: LSND
DRILLING RIG: PRECISION 828
API: 05-123-36701
LOG TYPE: HORIZONTAL
SCALE: 1:240 (5 inches per 100 feet)
REMARKS: WELLSITE GEOLOGICAL SERVICES PROVIDED BY COLUMBINE LOGGING, INC.

LOG CONTINUES FROM FILE: Shable USX PC AB11-62-1HNL Vert.lplot



Survey Elevation

Survey Plan



Marl

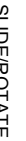
Silty Shale

Sandstone Stringers

Connection

Normal Fault

Trip Gas

60
DEPTH
(FEET)CUTTINGS
LITHOLOGY

GAMMA RAY		
0	API	200

TVD
ft

OIL SHOW
T F C

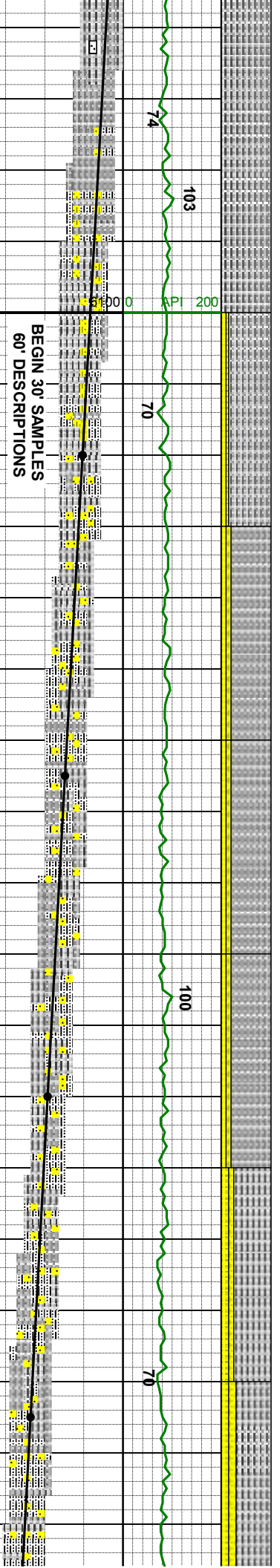
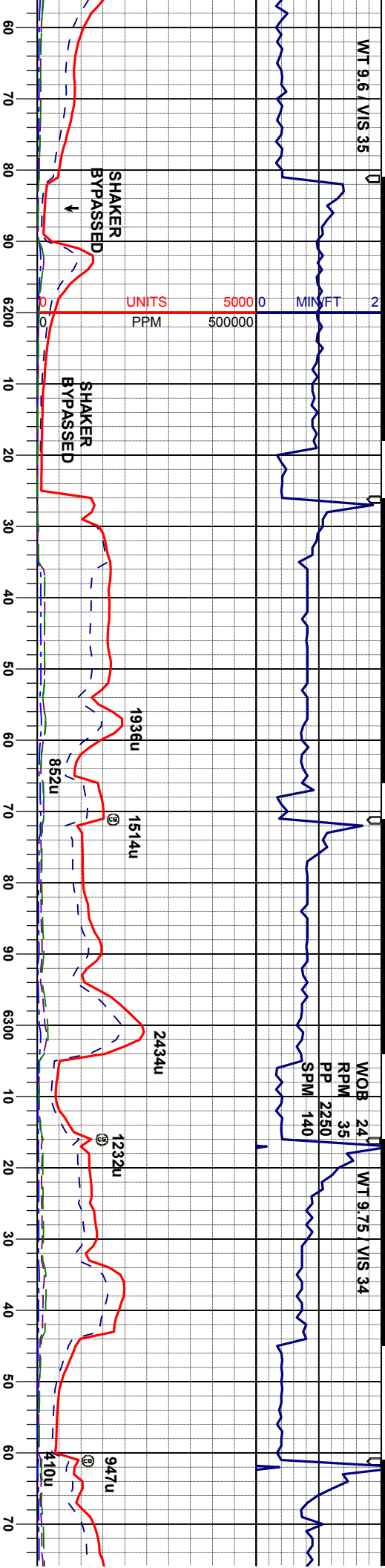
SAMPLE PHOTOS



WT 9.6 / VIS 35

WOB 24' WT 9.75 / VIS 34

RPM 35
PP 2250
SPM 140



BEGIN 30' SAMPLES
60' DESCRIPTIONS

MD 6220'
INC 3.9°
AZI 98.2°
TVD 6203.4'

MD 6265'
INC 8.3°
AZI 88.9°
TVD 6248.1'

MD 6310'
INC 12.1°
AZI 91.4°
TVD 6292.4'

MD 6355'
INC 14.6°
AZI 88.6°
TVD 6336.2'

SLTSH: m- dkgy, occ llgy, occ gybm
sbsp-pty, firm, fis, gt tex, sl calc, sdy ip,
grdg- shys
SS: wh-mgy, trns-op, occ clr, f-mgr, blk-
sblky, sme sbsp, mod srt, m firm, arg-sil
mtx, mod cmt, sl calc, rr glau

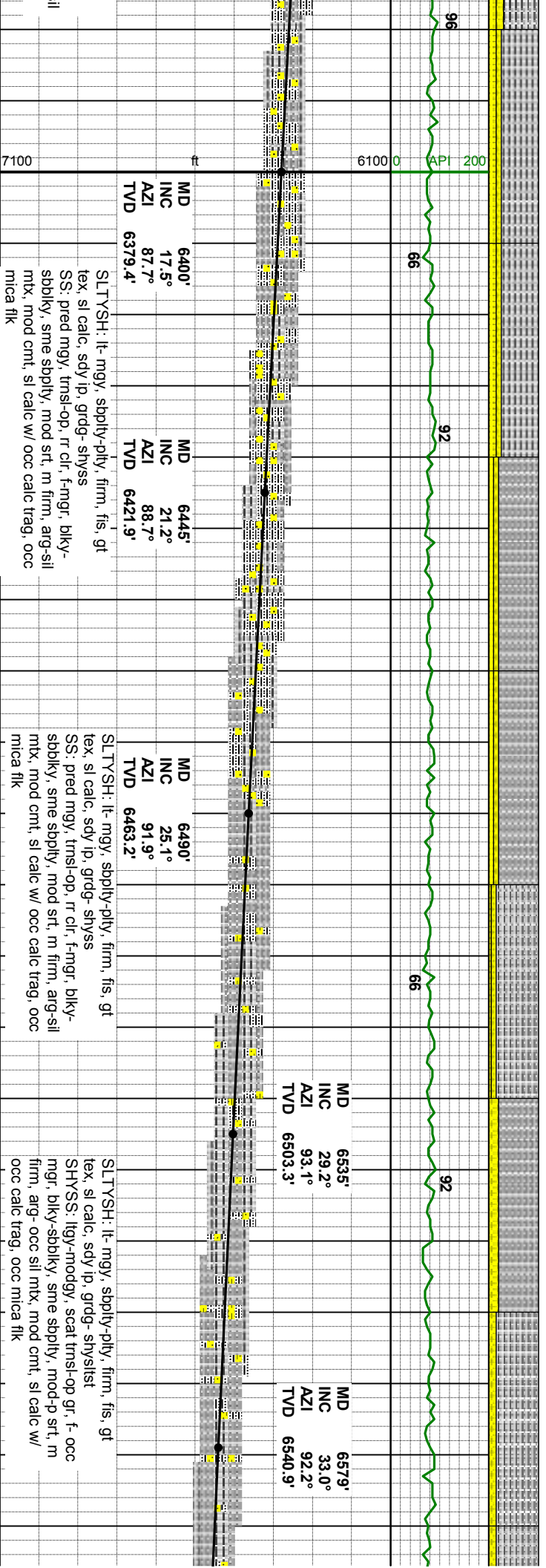
SLTSH: lt- mgy, sbsp-pty, firm, fis, gt
tex, sl calc, sdy ip, grdg- shys
SS: pred mgy, trns-op, rr clr, f-mgr, blk-
sblky, sme sbsp, mod srt, m firm, arg-sil
mtx, mod cmt, sl calc, occ mica flk

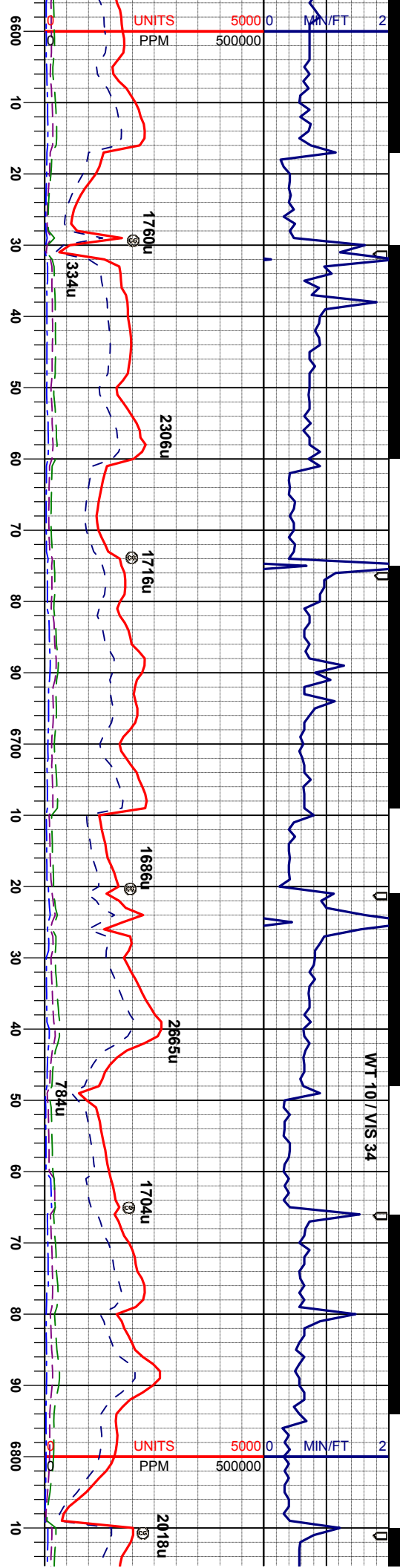
SLTSH: lt- mgy, sbsp-pty, firm, fis, gt
tex, sl calc, sdy ip, grdg- shys
SS: pred mgy, trns-op, rr clr, f-mgr, blk-
sblky, sme sbsp, mod srt, m firm, arg-s
mtx, mod cmt, sl calc, occ mica flk

y, occ gybm
sl calc, sdy ip,
trns mgr ss w/ tr

7100







MD 6624'
INC 36.5°
AZI 91.9°
TVD 6577.9'

MD 6669'
INC 40.0°
AZI 90.0°
TVD 6613.2'

MD 6714'
INC 43.6°
AZI 87.1°
TVD 6646.8'

MD 6759'
INC 46.8°
AZI 88.0°
TVD 6678.5'

TVD
SCALE
CHANGE

MD 680
INC 49.
AZI 90.1
TVD 6708.

SLTYSH: lt- mgy, sbply-plty, firm, fis, gt
tex, sl calc, sdy ip, grdg- shyslst
SHYSS: lly-mody, scat trns-op gr, f- occ
mgr, blkly-sbly, sme sbply, mod-p srt, m
firm, arg- occ sil mtx, mod cnt, sl calc w/
occ calc trag, occ mica flk

SLTYSH: lt- mgy, sbply-plty, firm, fis, gt
tex, sl calc, sdy ip, grdg- shyslst
SHYSS: lly-mody, scat trns-op gr, f- occ
mgr, blkly-sbly, sme sbply, mod-p srt, m
firm, arg- occ sil mtx, mod cnt, sl calc w/
occ calc trag, occ mica flk

SLTYSH: lt- mgy, sbply-plty, firm, fis, gt
tex, sl calc, tr sdy ip, grdg- shyslst
SHYSS: lly-mody, scat trns-op gr, f- occ
mgr, blkly-sbly, sme sbply, mod-p srt, m
firm, arg- occ sil mtx, mod cnt, sl calc w/
occ calc trag, occ mica flk

SLTYSH: lt- mgy, sbply-plty, firm, fis, gt
tex, sl calc, tr sdy ip, grdg- shyslst, abnt
bent (6800)

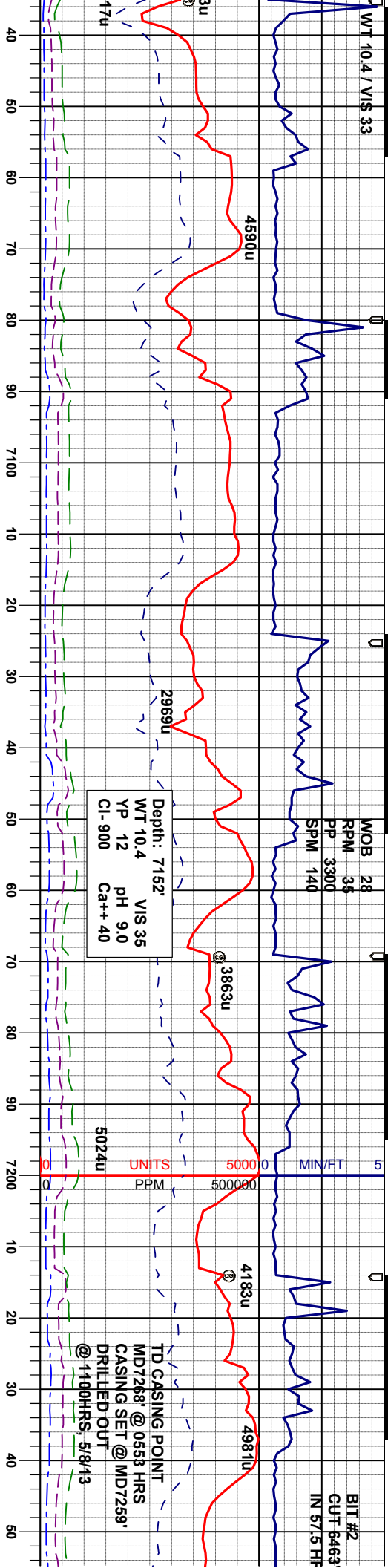
SLTYSH:
tex, sl c



WT 10.4 / VIS 33

WOB 28
RPM 35
PP 3300
SPM 140

BIT #2
CUT 5463
IN 57.5 HF



DOBARRA A CHALK
LOGGER TOP
37' MD, 6826' TVD

~80' FAULT
PER COMPANY
GEOLOGIST

NOBARRA B CHALK
LOGGER TOP
~7172' MD, ~6866' TVD

MD	7029'	MD	7118'	MD	7163'	MD	7217'
INC	68.8°	INC	73.2°	INC	77.4°	INC	81.5°
AZI	87.9°	AZI	87.7°	AZI	86.3°	AZI	87.3°
TVD	6839.0'	TVD	6852.4'	TVD	6863.8'	TVD	6873.7'

str: sft-firm, blk-y-sbbkly, m-occ bent, MRL: m-
ply-ply, occ ply, rthy
calc mtz, calc, SLTYSH: lt-
m, fls, gt tex, sl calc, tr
st, scat bent

CHK: lt- mgy, mot-str, sft-firm, blk-y-sbbkly, rthy lstr, calc, tr fos frag MRL: m- dkgy, sft-
mfirm, sbbly-ply, occ ply, rthy lstr, silty
tex, org/calc mtz, calc

MRL: m- dkgy, sft- mfirm, sbbly-ply, occ
ply, rthy lstr, silty tex, org/calc mtz, calc, tr
fos frag, tr pyr, occ bent

CHK: lt- mgy, mot-str, sft-firm, blk-y-sbbkly,
rthy lstr, calc

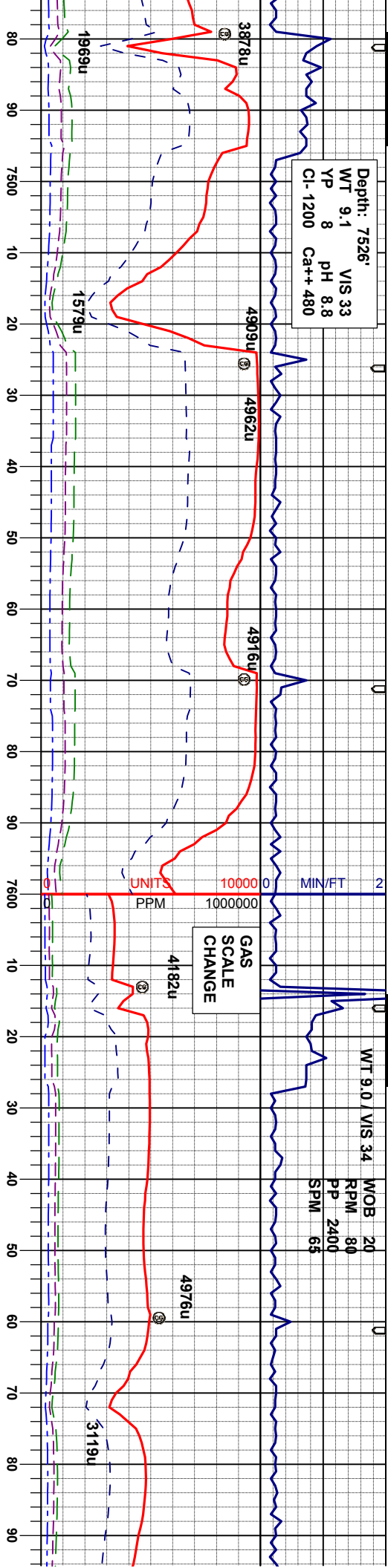
CHK: lt- mgy, mot-str, sft- sfirm, blk-y-
sbbkly, rthy lstr, calc

MRL: m- dkgy, sft- mfirm, sbbly-ply, occ
ply, rthy lstr, silty tex, org/calc mtz, calc, tr
fos frag, abnt bent @ 7268'

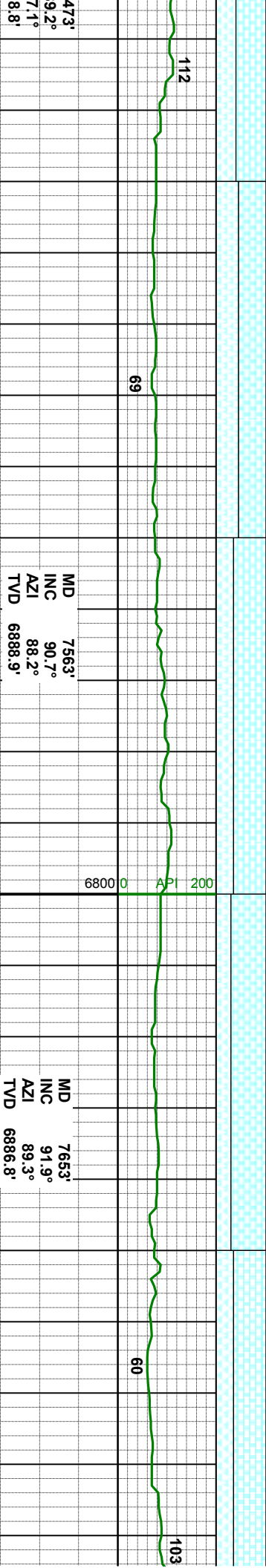
7200 ft 6700 200 40



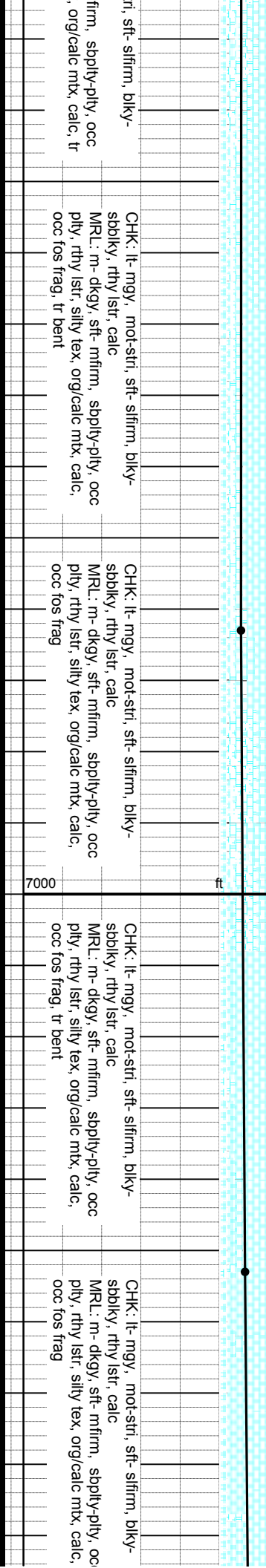
Depth: 7526'
WT 9.1 VIS 33
YP 8 pH 8.8
Cl- 1200 Ca++ 480



WT 9.0 VIS 34
MOB 20
RPM 80
PP 2400
SPM 65



MD 7653
INC 91.9
AZI 89.3
TVD 6886.8



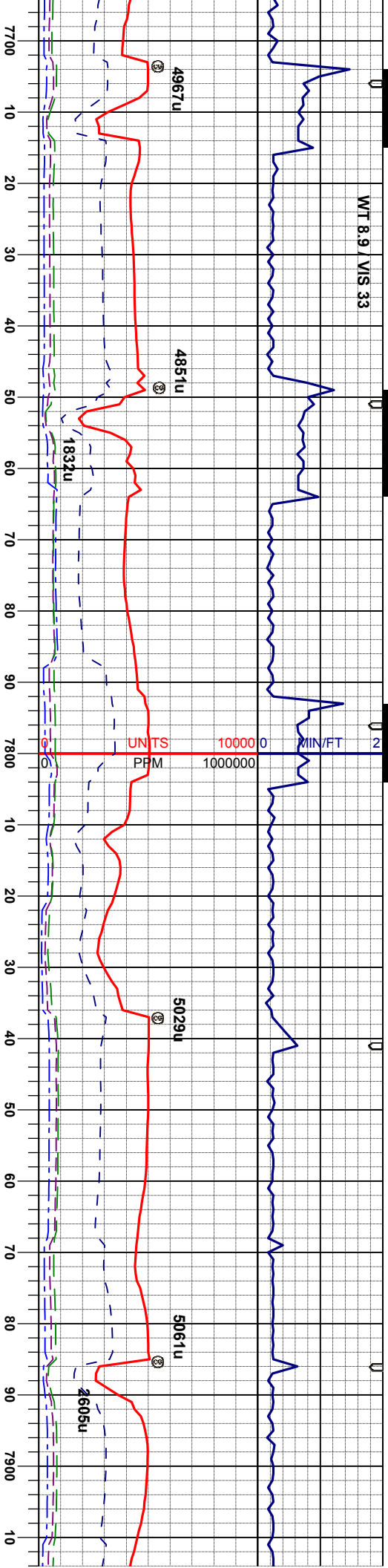
CHK: lt-mgy, mot-str, sft-slfm, blk-ssbly, rthy lstr, calc
MRL: m-dkgy, sft-mfirm, sbply-pty, occ
occ (fos frag, tr bent)

CHK: lt-mgy, mot-str, sft-slfm, blk-ssbly, rthy lstr, calc
MRL: m-dkgy, sft-mfirm, sbply-pty, occ
occ (fos frag)

CHK: lt-mgy, mot-str, sft-slfm, blk-ssbly, rthy lstr, calc
MRL: m-dkgy, sft-mfirm, sbply-pty, occ
occ (fos frag, tr bent)

CHK: lt-mgy, mot-str, sft-slfm, blk-ssbly, rthy lstr, calc
MRL: m-dkgy, sft-mfirm, sbply-pty, occ
occ (fos frag)

W/T 8.9 / VIS 3.3



MD 7743'
INC 91.8°
AZI 89.8°
TVD 6883.9'

CHK: lt-mgy, occ dkgy, mot-stri, sft-silfirm,
biky-sbbiky, rthy lstr, calc
MRL: m-dkgy, sft-mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, occ fos frag

CHK: lt-mgy, occ dkgy, mot-stri, sft-silfirm,
biky-sbbiky, rthy lstr, calc
MRL: m-dkgy, sft-mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, occ fos frag

MD 7832'
INC 89.7°
AZI 89.3°
TVD 6882.8'

CHK: lt-mgy, occ dkgy, mot-stri, sft-silfirm,
biky-sbbiky, rthy lstr, calc
MRL: m-dkgy, sft-mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, occ fos frag

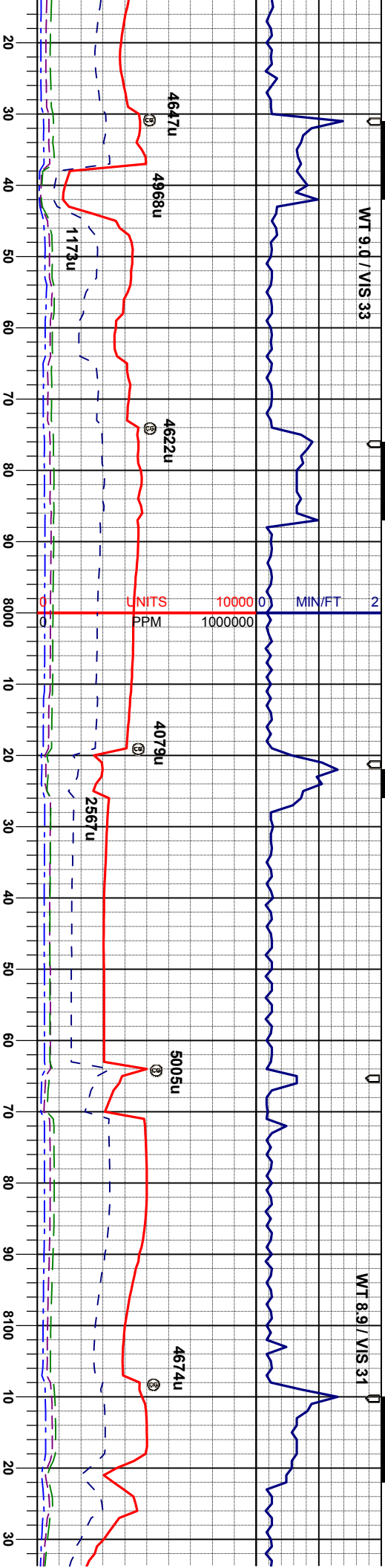
CHK: mgy-dkgy, occ lgy, mot-stri, sft-silfirm,
biky-sbbiky, rthy lstr, calc
MRL: m-dkgy, sft-mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, occ fos frag

CHK: mgy-silfirm, biky-silfirm,
MRL: m-occ ply, calc, scal



WT 9.0 / VIS 33

WT 8.9 / VIS 31



MD 7922'
INC 91.5°
AZI 89.3°
TVD 6881.8'

MD 8012'
INC 90.0°
AZI 90.1°
TVD 6880.6'

MD 8102'
INC 91.3°
AZI 89.6°
TVD 6879.6'

CHK: mgy-dkgy, occ llyg, mot-str, sft-sifrm, bly-sbdky, rthy lstr, calc MRL: m-dkgy, sft-mfrm, sbdky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, scat fos frag

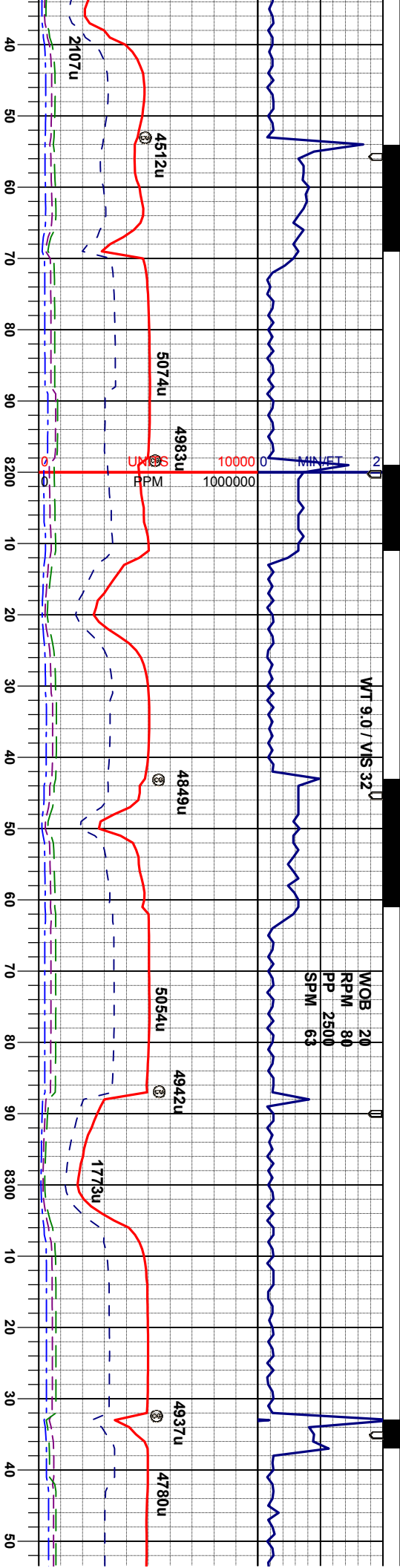
CHK: mgy-dkgy, occ llyg, mot-str, sft-sifrm, bly-sbdky, rthy lstr, calc MRL: m-dkgy, sft-mfrm, sbdky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, scat fos frag

CHK: mgy-dkgy, occ llyg, mot-str, sft-sifrm, bly-sbdky, rthy lstr, calc MRL: m-dkgy, sft-mfrm, sbdky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, scat fos frag

CHK: mgy-dkgy, occ llyg, mot-str, sft-sifrm, bly-sbdky, rthy lstr, calc MRL: m-dkgy, sft-mfrm, sbdky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, scat fos frag

CHK: mgy-dkgy, occ llyg, mot-str, sft-sifrm, bly-sbdky, rthy lstr, calc MRL: m-dkgy, sft-mfrm, sbdky-sbply, occ ply, rthy lstr, silty tex, org/calc, scat fos frag





MD 8192'
INC 90.0°
AZI 90.1°
TVD 6878.6'

MD 8282'
INC 87.9°
AZI 89.1°
TVD 6880.3'

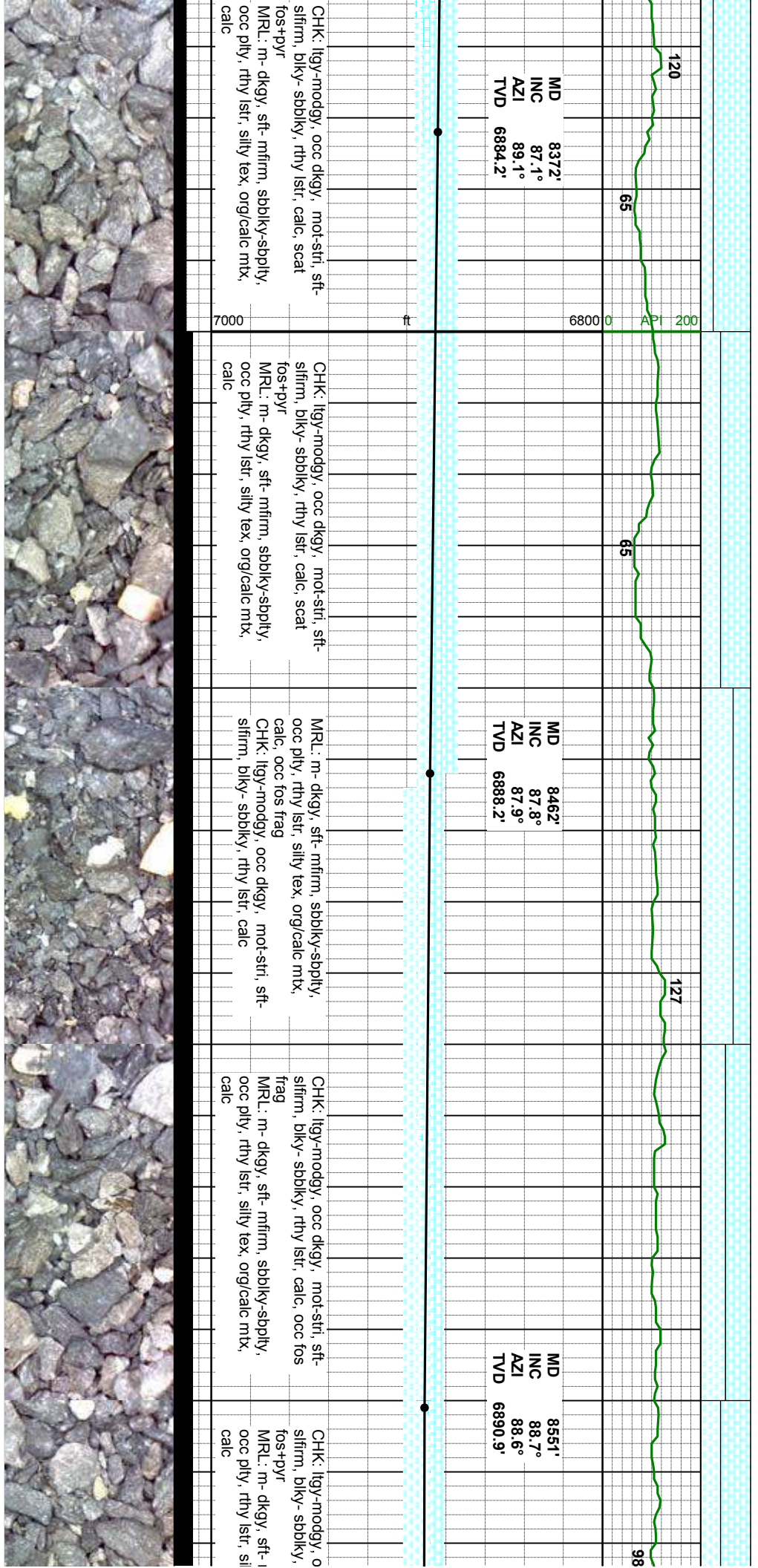
CHK: mgy-dkgy, occ llyg, mot-str, sft-sifirm, bly-sbiky, rthy lstr, calc
MRL: m-dkgy, sft-mfirm, sbiky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, tr fos frag

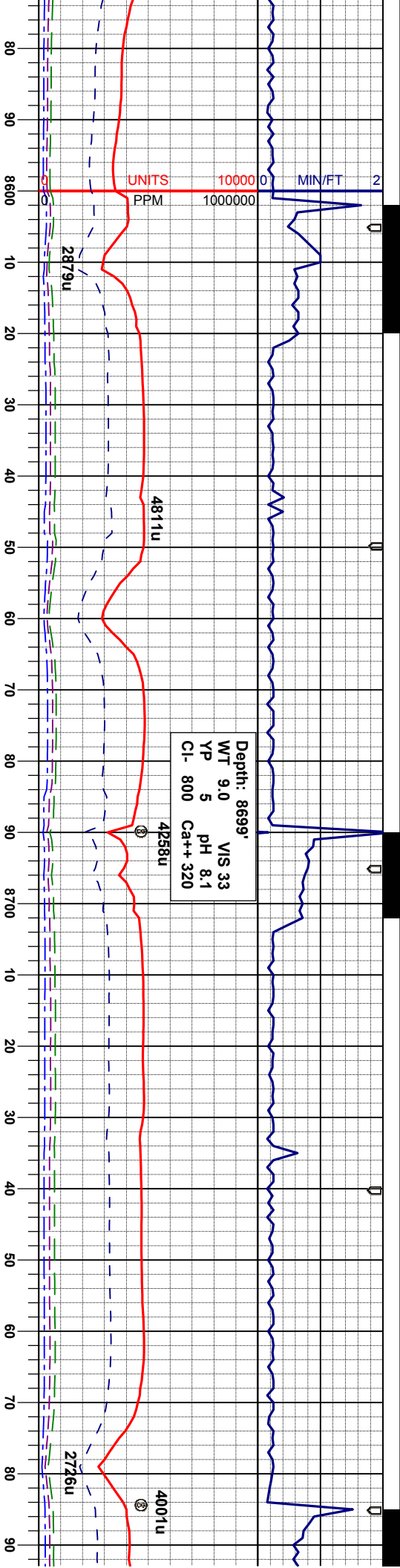
CHK: llyg-modgy, occ dkgy, mot-str, sft-sifirm, bly-sbiky, rthy lstr, calc
MRL: m-dkgy, sft-mfirm, sbiky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, tr fos frag

CHK: llyg-modgy, occ dkgy, mot-str, sft-sifirm, bly-sbiky, rthy lstr, calc
MRL: m-dkgy, sft-mfirm, sbiky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, tr fos frag

CHK: llyg-modgy, occ dkgy, mot-str, sft-sifirm, bly-sbiky, rthy lstr, calc
MRL: m-dkgy, sft-mfirm, sbiky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, tr fos frag







MD 8641'
INC 90.3°
AZI 87.0°
TVD 6891.7'

MD 8731'
INC 90.1°
AZI 87.3°
TVD 6891.4'

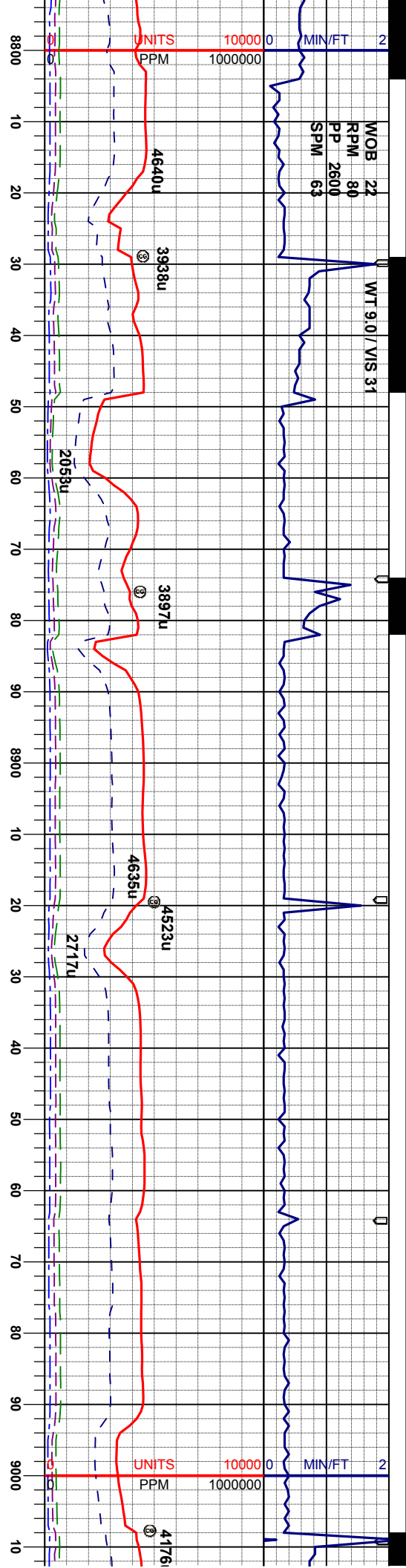
occ dkgy, mot-stri, sft-
rthy istr, calc, scat
MRL: m- dkgy, sft- mfirm, sbblky-sbply,
occ ply, rthy istr, silty tex, org/calc mtx,
calc, occ fos frag
CHK: lgy-modgy, occ dkgy, mot-stri, sft-
sfirm, bky- sbblky, rthy istr, calc

MRL: m- dkgy, sft- mfirm, sbblky-sbply,
occ ply, rthy istr, silty tex, org/calc mtx,
calc, occ fos frag
CHK: lgy-modgy, occ dkgy, mot-stri, sft-
sfirm, bky- sbblky, rthy istr, calc

MRL: m- dkgy, sft- mfirm, sbblky-sbply,
occ ply, rthy istr, silty tex, org/calc mtx,
calc, occ fos frag, scat bent
CHK: lgy-modgy, occ dkgy, mot-stri, sft-
sfirm, bky- sbblky, rthy istr, calc

MRL: m- dkgy, sft- mfirm, sbblky-sbply,
occ ply, rthy istr, silty tex, org/calc mtx,
calc, occ fos frag, abnt bent, occ chk

ft 7000



MD 8821'
INC 90.8°
AZI 89.3°
TVD 6890.7'

MD 8911'
INC 90.3°
AZI 89.4°
TVD 6859.8'

MD 90
INC 90
AZI 89
TVD 6888

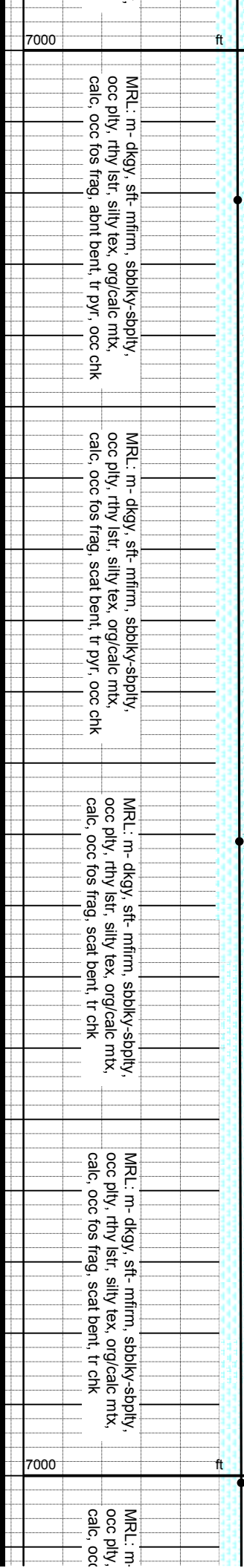
MRL: m-dkgy, sft-mfirm, sbblky-sbply,
occ pily, rthy lst, silty tex, org/calc mtx,
calc, occ fos frag, abnt bent, tr pyr, occ chk

MRL: m-dkgy, sft-mfirm, sbblky-sbply,
occ pily, rthy lst, silty tex, org/calc mtx,
calc, occ fos frag, scat bent, tr pyr, occ chk

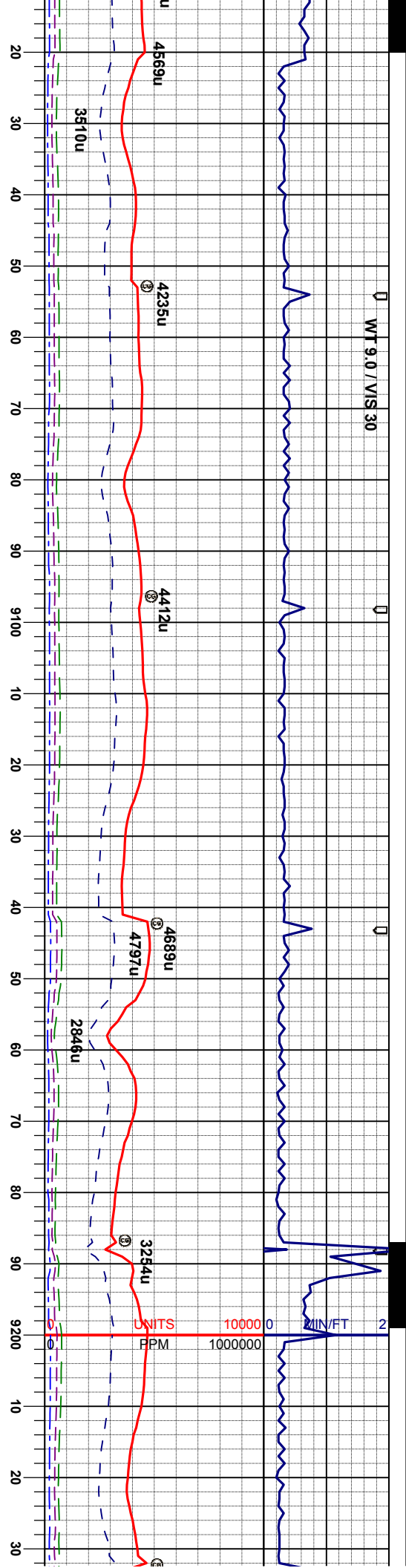
MRL: m-dkgy, sft-mfirm, sbblky-sbply,
occ pily, rthy lst, silty tex, org/calc mtx,
calc, occ fos frag, scat bent, tr chk

MRL: m-dkgy, sft-mfirm, sbblky-sbply,
occ pily, rthy lst, silty tex, org/calc mtx,
calc, occ fos frag, scat bent, tr chk

MRL: m-
occ pily,
calc, occ



WT 9.0 / VIS 30



MD 9090'
INC 89.9°
AZI 89.3°
TVD 6888.4'

MD 9180'
INC 90.7°
AZI 89.4°
TVD 6887.9'

dkgy, sft- mfirm, sbbky-sbply,
rthy lst, silty tex, orgcalc mtx,
c fos frag, scat bent, tr chk

MRL: m- dkgy, sft- mfirm, sbbky-sbply,
occ ply, rthy lst, silty tex, orgcalc mtx,
calc, occ fos frag, scat bent, tr chk

MRL: m- dkgy, sft- mfirm, sbbky-sbply,
occ ply, rthy lst, silty tex, orgcalc mtx,
calc, occ fos frag, scat bent

MRL: m- dkgy, sft- mfirm, sbbky-sbply,
occ ply, rthy lst, silty tex, orgcalc mtx,
calc, occ fos frag, scat bent

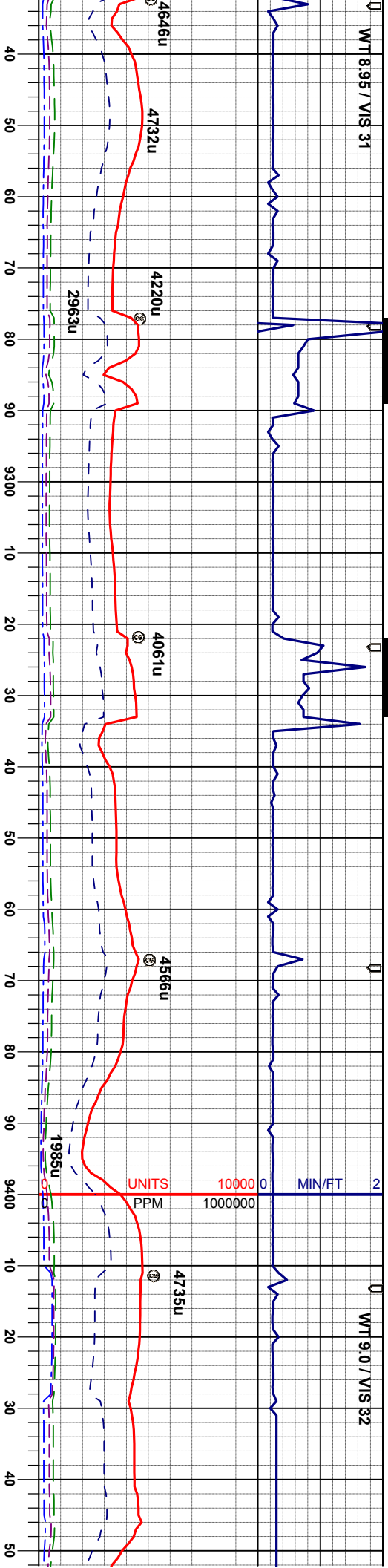
MRL: m- dkgy, sft- mfirm, st
occ ply, rthy lst, silty tex, or
calc, occ fos frag, occ bent

7000 ft

6800 0 API 200

WT 8.95 / VIS 31

WT 9.0 / VIS 32



MD 9270'
INC 91.0°
AZI 90.0°
TVD 6886.6'

MD 9360'
INC 88.9°
AZI 90.7°
TVD 6886.7'

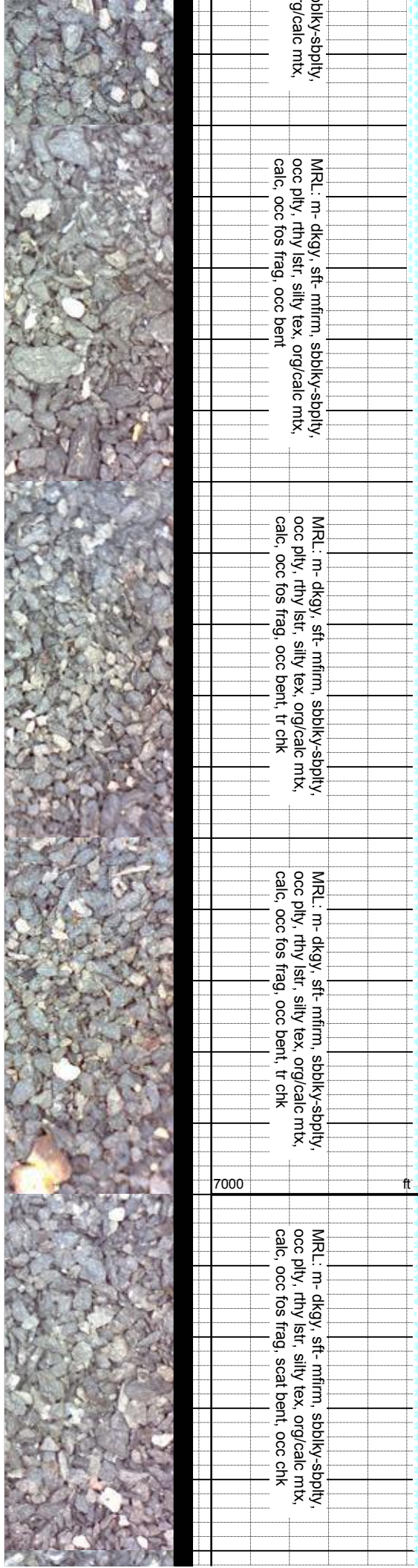
MD 6886.6'
INC 91.0°
AZI 90.0°
TVD 6886.6'

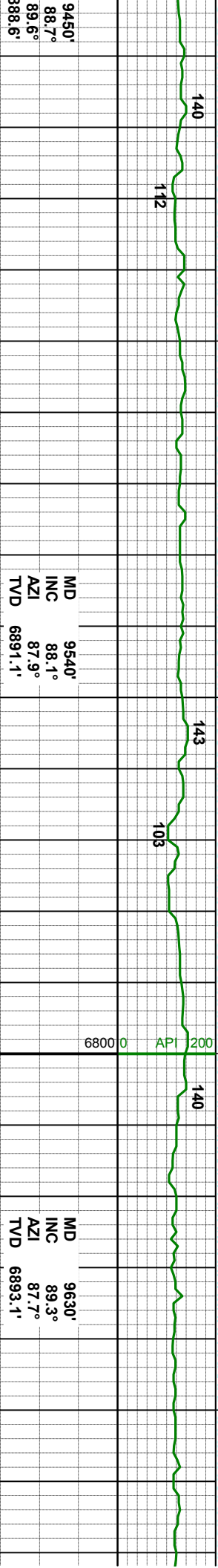
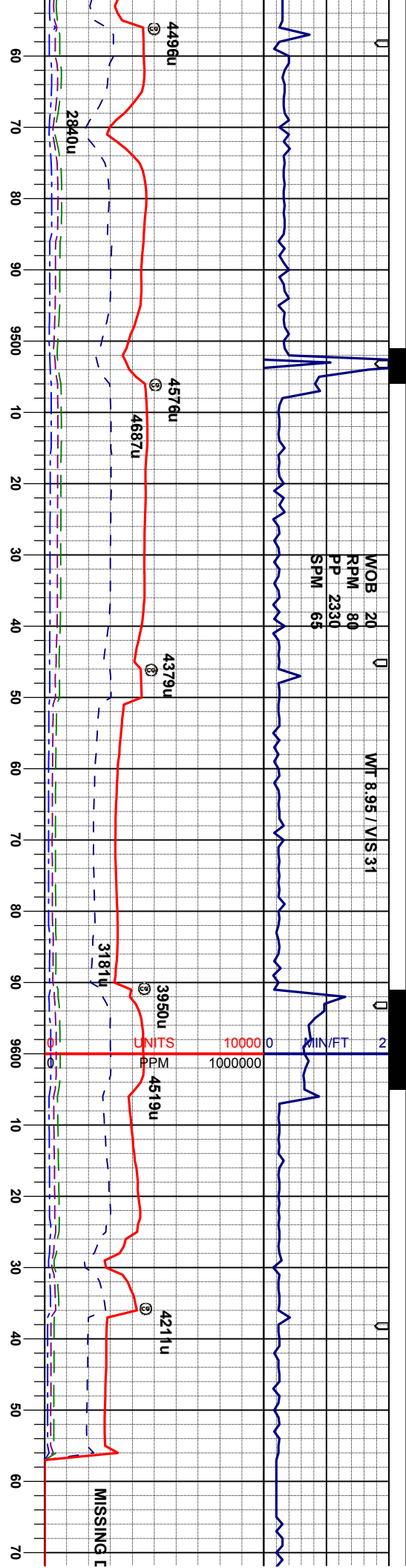
MRL: m-dkgy, sft-mfirm, sbbkly-sbply,
occ ply, rthy lst, silty tex, orgcalc mtx,
calc, occ fos frag, occ bent

MRL: m-dkgy, sft-mfirm, sbbkly-sbply,
occ ply, rthy lst, silty tex, orgcalc mtx,
calc, occ fos frag, occ bent, tr chk

MRL: m-dkgy, sft-mfirm, sbbkly-sbply,
occ ply, rthy lst, silty tex, orgcalc mtx,
calc, occ fos frag, occ bent, tr chk

MRL: m-dkgy, sft-mfirm, sbbkly-sbply,
occ ply, rthy lst, silty tex, orgcalc mtx,
calc, occ fos frag, scat bent, occ chk





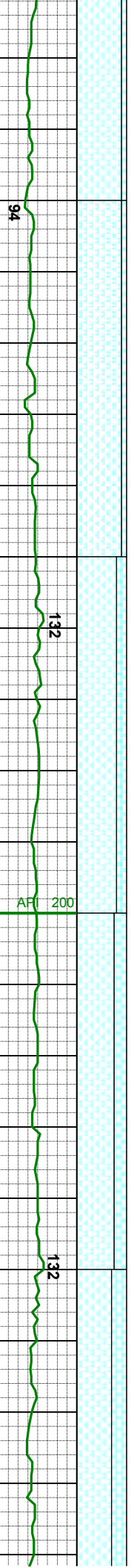
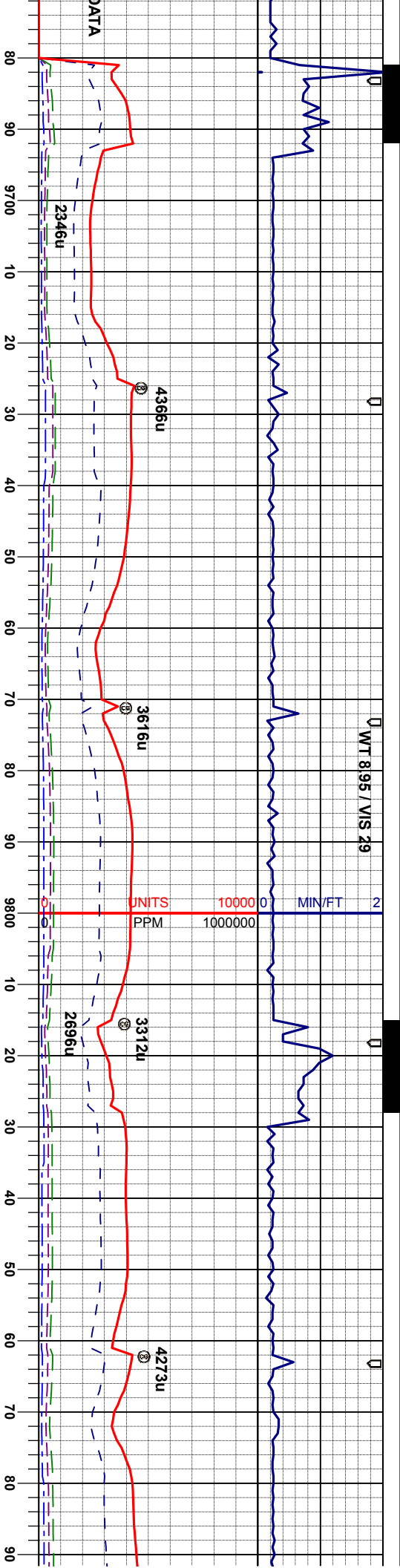
MRU: m-dkgy, sft-mfirm, sdbkly-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, occ fos frag, scat bent, occ chk

MRU: m-dkgy, sft-mfirm, sdbkly-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, abnt fos frag, scat bent, tr chk

MRU: m-dkgy, sft-mfirm, sdbkly-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, occ fos frag, scat bent, occ chk

MRU: m-dkgy, sft-mfirm, sdbkly-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, occ fos frag





MD 9720'
INC 90.6°
AZI 89.3°
TVD 6893.2'

MD 9810'
INC 90.5°
AZI 88.0°
TVD 6892.3'

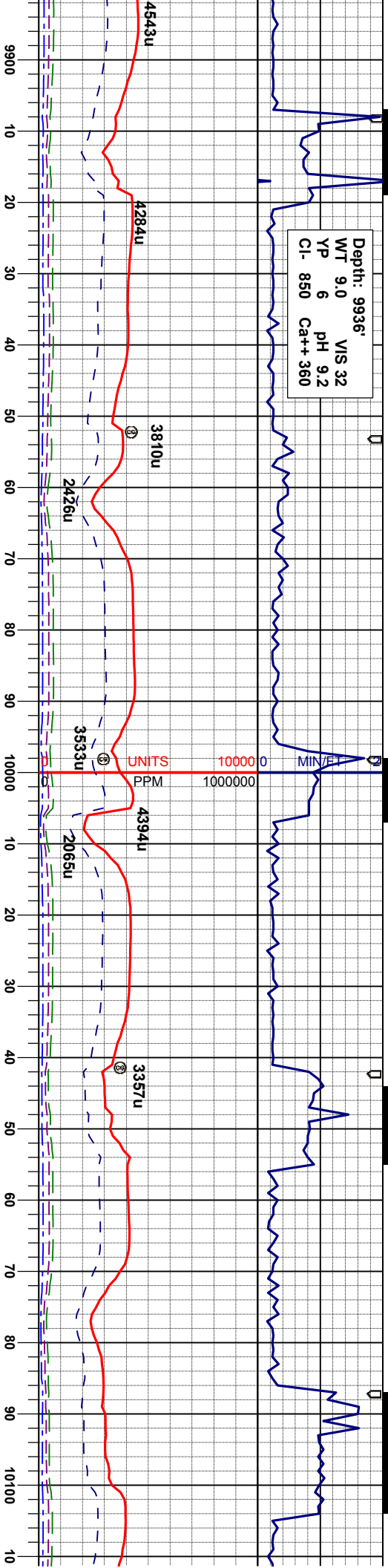
MR.L: m- dkgy, sft- mfirm, sbbiky-sbpity, occ ply, rthy lstr, silty tex, org/calc mtx, calc, occ fos frag, scat bent
CHK: lt- mgy, mot-stri, sft- sfirm, biky-sbbiky, rthy lstr, vcalc

MR.L: m- dkgy, sft- mfirm, sbbiky-sbpity, occ ply, rthy lstr, silty tex, org/calc mtx, calc, occ fos frag, scat bent
CHK: lt- mgy, mot-stri, sft- sfirm, biky-sbbiky, rthy lstr, vcalc

MR.L: m- dkgy, sft- mfirm, sbbiky-sbpity, occ ply, rthy lstr, silty tex, org/calc mtx, calc, occ fos frag, scat bent
CHK: lt- mgy, mot-stri, sft- sfirm, biky-sbbiky, rthy lstr, vcalc



Depth: 9936'
WT 9.0 VIS 32
YP 6 pH 9.2
Cl- 850 Ca++ 360



MD 9899'
INC 90.3°
AZI 87.7°
TVD 6891.7'

MD 9989'
INC 90.6°
AZI 87.9°
TVD 6891.0'

MD 10079'
INC 89.9°
AZI 87.5°
TVD 6890.6'

MRL: m- dkgy, sft- mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtz,
calc, occ fos frag, scat bent
CHK: lt- mgy, mot-str, sft- sfirm, blk-
sbbiky, rthy lstr, vcalc

MRL: m- dkgy, sft- mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtz,
calc, occ fos frag, occ bent
CHK: lt- mgy, mot-str, sft- sfirm, blk-
sbbiky, rthy lstr, vcalc

MRL: m- dkgy, sft- mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtz,
calc, occ fos frag, occ bent
CHK: lt- mgy, mot-str, sft- sfirm, blk-
sbbiky, rthy lstr, vcalc

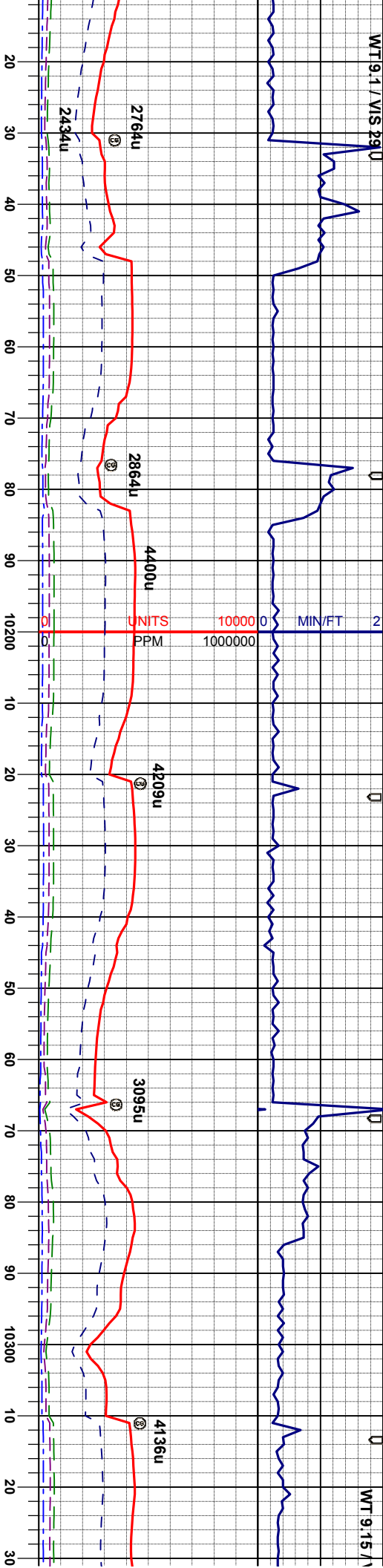
MRL: m- dkgy, sft- mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtz,
calc, occ fos frag, tr bent
CHK: lt- mgy, mot-str, sft- sfirm, blk-
sbbiky, rthy lstr, vcalc

MRL: m- dkgy, sft- mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtz,
calc, occ fos frag, occ bent
CHK: lt- mgy, mot-str, sft- sfirm, blk-
sbbiky, rthy lstr, vcalc



WT 9.1 / VIS 290

WT 9.15 /



MD 10169'
INC 92.1°
AZI 90.0°
TVD 6889.0'

MD 10259'
INC 91.9°
AZI 89.6°
TVD 6885.9'

m-dkgy, sft-mfirm, sbblky-sbply,
rthy lstr, silty tex, org/calc mtx,
occ fos frag, tr bent
lt-mgy, mot-stri, sft-sifirm, blyk-
rthy lstr, vcalc

MRL: m-dkgy, sft-mfirm, sbblky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, abnt fos frag, scat bent
CHK: lt-mgy, mot-stri, sft-sifirm, blyk-
sbblky, rthy lstr, vcalc

MRL: m-dkgy, sft-mfirm, sbblky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, scat fos frag, tr bent
CHK: lt-mgy, mot-stri, sft-sifirm, blyk-
sbblky, rthy lstr, vcalc

MRL: m-dkgy, sft-mfirm, sbblky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, scat fos frag, tr bent
CHK: lt-mgy, mot-stri, sft-sifirm, blyk-
sbblky, rthy lstr, vcalc

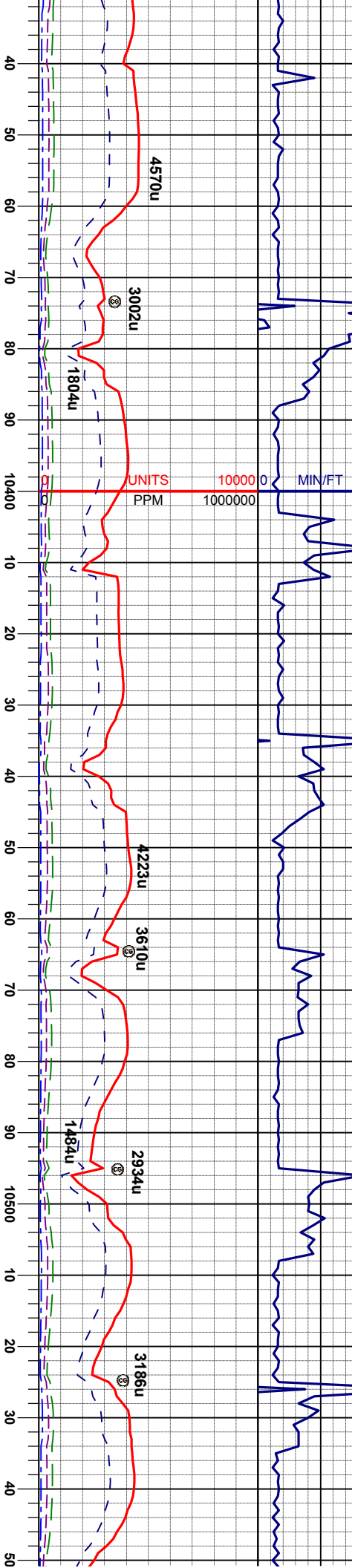
MRL: m-dkgy, sft-mfirm, sbblky-sbply,
occ ply, rthy lstr, silty tex,
calc, scat bent, tr fos frag
CHK: lt-mgy, mot-stri, sft-
sbblky, rthy lstr, vcalc



VIS 30

WT 9.1 / VIS 31

WT 9.1 /



MD 10350'
INC 92.6°
AZI 90.0°
TVD 6882.3'

MD 10442'
INC 91.3°
AZI 89.8°
TVD 6879.2'

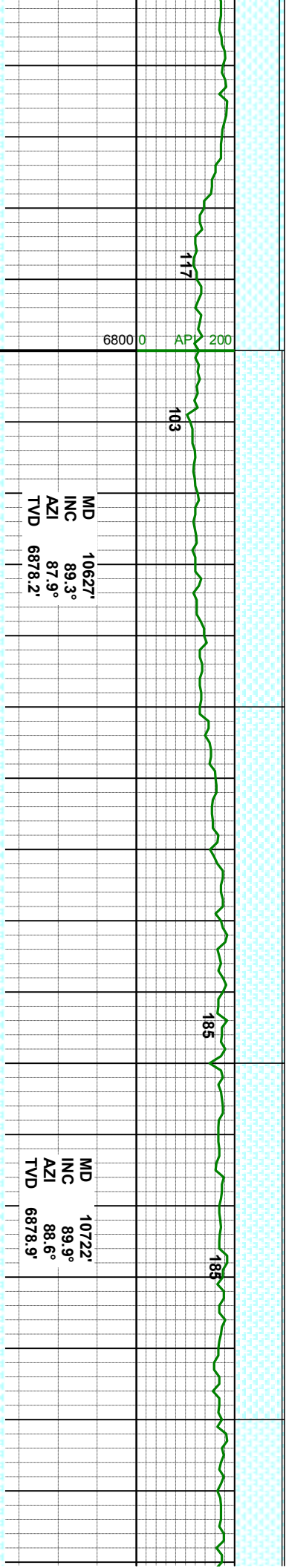
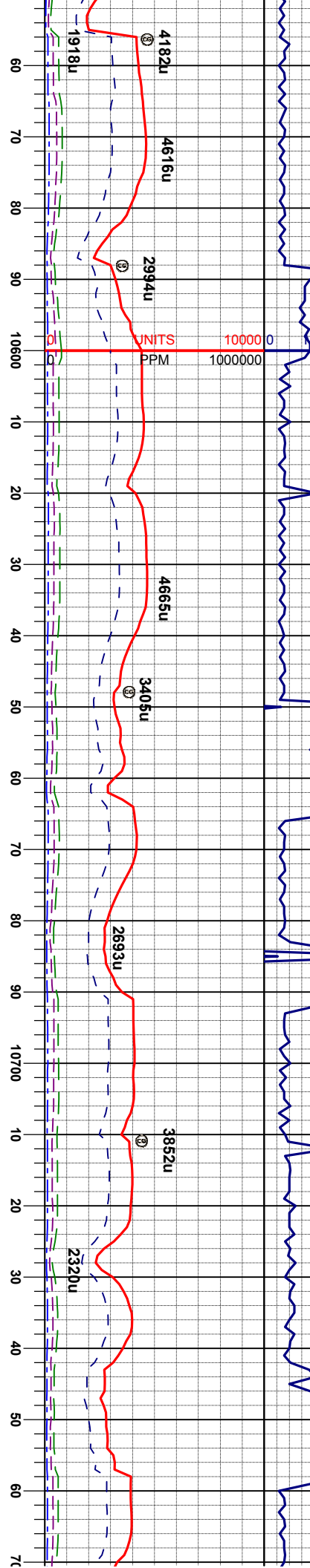
MD 10535'
INC 90.3°
AZI 89.3°
TVD 6877.9'

sbdkly-sbply,
orgcalic mtx,
sifirm, bdky-
MRL: m- dkgy, sft- mfirm, sbdkly-sbply,
occ ply, rthy lstr, silty tex, orgcalic mtx,
calc, tr bent, scat fos frag
CHK: lt- mgy, mot-stri, sft- sifirm, bdky-
sbdkly, rthy lstr, vcalic

MRL: m- dkgy, sft- mfirm, sbdkly-sbply,
occ ply, rthy lstr, silty tex, orgcalic mtx,
calc, tr bent, scat fos frag
CHK: lt- mgy, mot-stri, sft- sifirm, bdky-
sbdkly, rthy lstr, vcalic

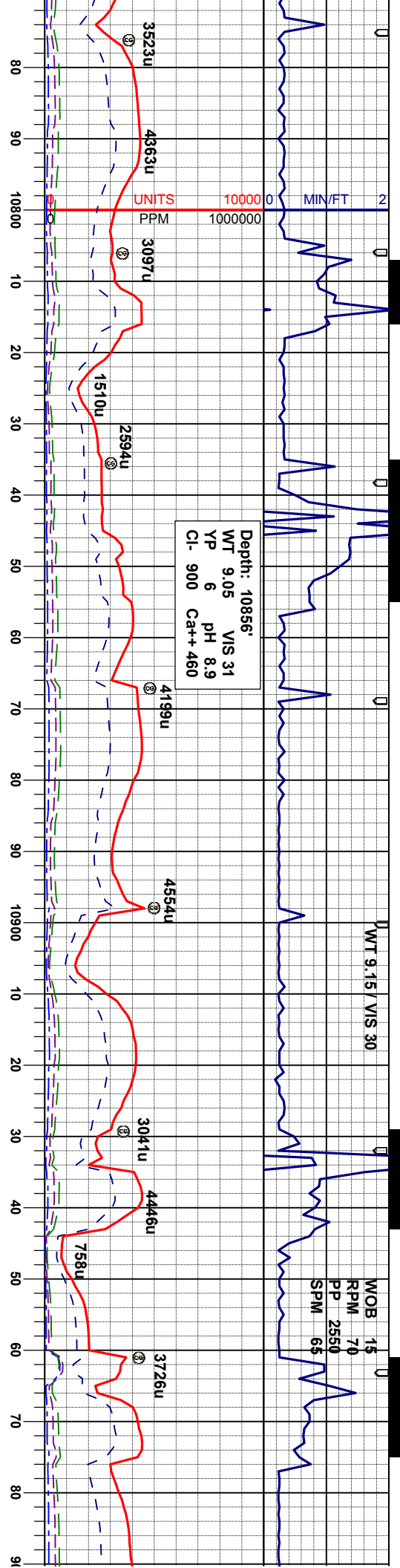
MRL: m- dkgy, sft- mfirm, sbdkly-sbply,
occ ply, rthy lstr, silty tex, orgcalic mtx,
calc, scat bent, tr fos frag
CHK: lt- mgy, mot-stri, sft- sifirm, bdky-
sbdkly, rthy lstr, vcalic





MD 10627'	MD 10722'	MD 10722'
INC 89.3°	INC 89.9°	INC 89.9°
AZI 87.9°	AZI 88.6°	AZI 88.6°
TVD 6878.2'	TVD 6878.9'	TVD 6878.9'





MD 10815'
INC 91.1°
AZI 87.5°
TVD 6878.0'

MD 10910'
INC 91.1°
AZI 88.6°
TVD 6876.2'

sft- mfirm, sbbiky-sbpity,
, silty tex, org/calc mtx,
scat fos frag
not-stri, sft- sifirm, blk-
vcalc

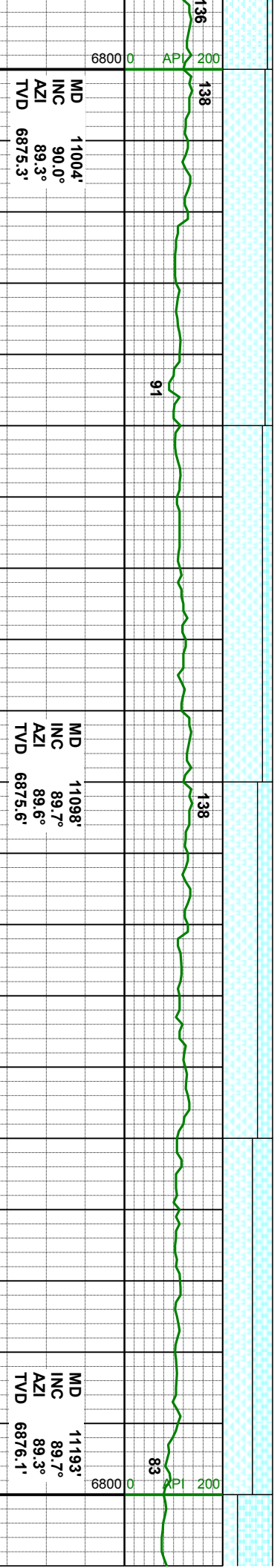
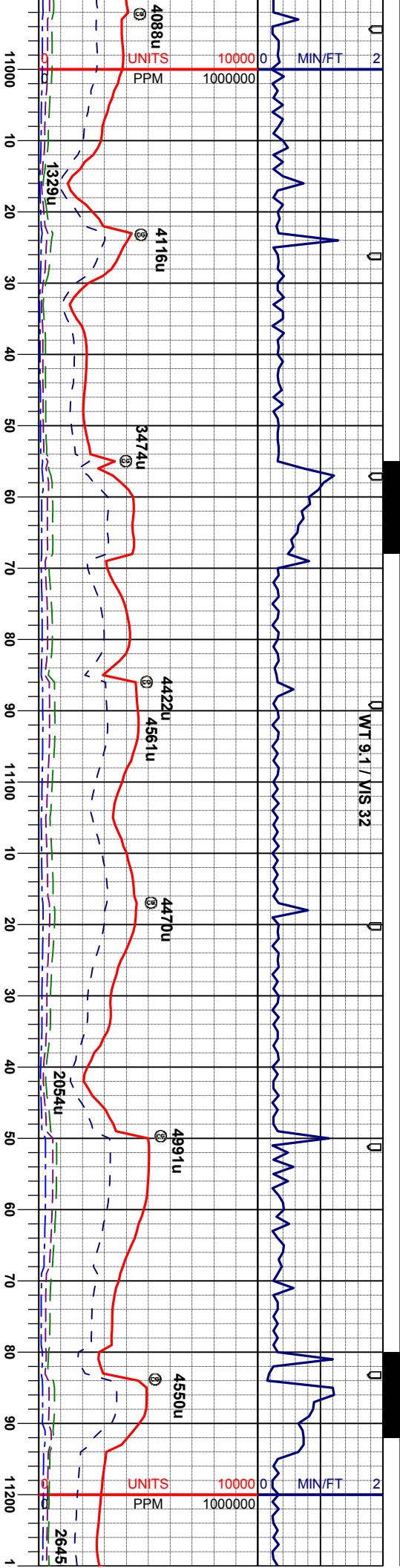
MRL: m- dkgy, sft- mfirm, sbbiky-sbpity,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, abnt bent, scat fos frag
CHK: lt- mgy, mot-stri, sft- sifirm, blk-
sbbiky, rthy lstr, vcalc

MRL: m- dkgy, sft- mfirm, sbbiky-sbpity,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, abnt bent, scat fos frag
CHK: lt- mgy, mot-stri, sft- sifirm, blk-
sbbiky, rthy lstr, vcalc

MRL: m- dkgy, sft- mfirm, sbbiky-sbpity,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, abnt bent, scat fos frag
CHK: lt- mgy, mot-stri, sft- sifirm, blk-
sbbiky, rthy lstr, vcalc

MRL: m- dkgy, sft- mfirm, sbbiky-sbpity,
occ ply, rthy lstr, silty tex, org/calc r
calc, abnt bent, abnt fos frag
CHK: lt- mgy, mot-stri, sft- sifirm, blk
sbbiky, rthy lstr, vcalc





MRL: m-dkgy, sft-mfirm, sbblky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, scat bent, abnt fos frag

CHK: lt-mgy, mot-stri, sft-sfirm, blk-y-sbblky, rthy lstr, vcalc

MRL: m-dkgy, sft-mfirm, sbblky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, scat bent, abnt fos frag

CHK: lt-mgy, mot-stri, sft-sfirm, blk-y-sbblky, rthy lstr, vcalc

MRL: m-dkgy, sft-mfirm, sbblky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, abnt bent, occ fos frag

CHK: lt-mgy, mot-stri, sft-sfirm, blk-y-sbblky, rthy lstr, vcalc

MRL: m-dkgy, sft-mfirm, sbblky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, abnt bent, occ fos frag

CHK: lt-mgy, mot-stri, sft-sfirm, blk-y-sbblky, rthy lstr, vcalc

CHK: sbblk

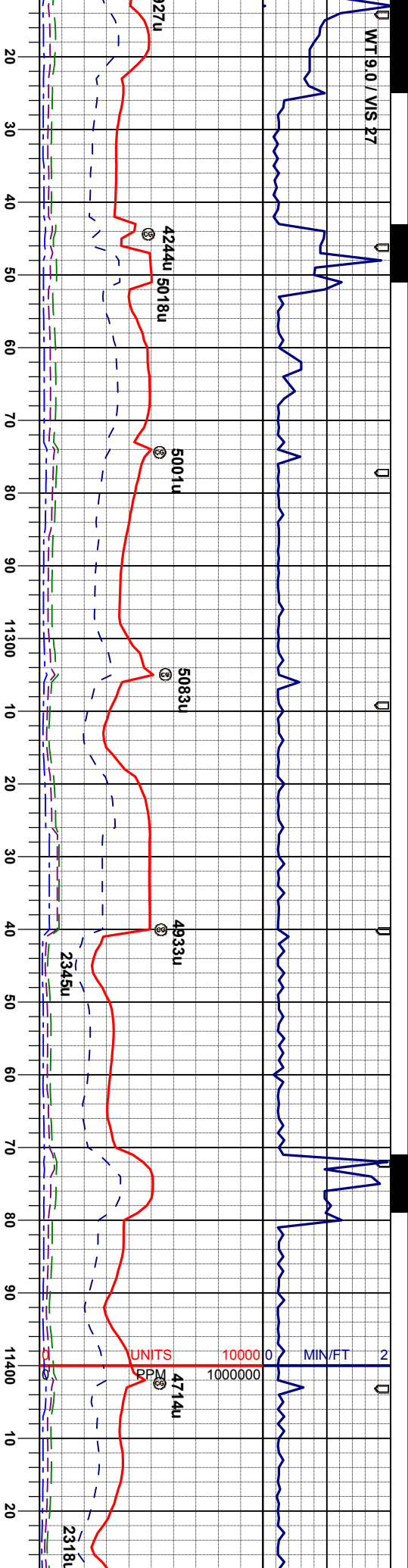
MRL: occ p

calc, '1

APPROXIMATE LOCATION OF FAULT PER GEOSTEERING



WT 9.0 / MS 27



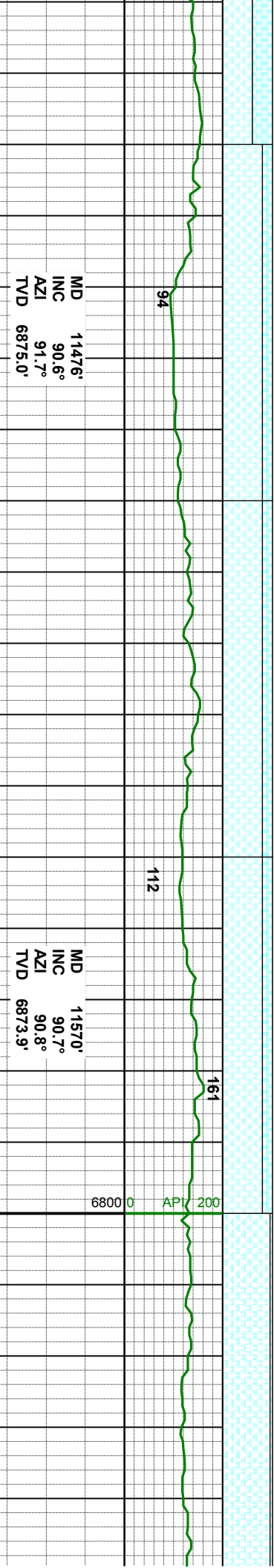
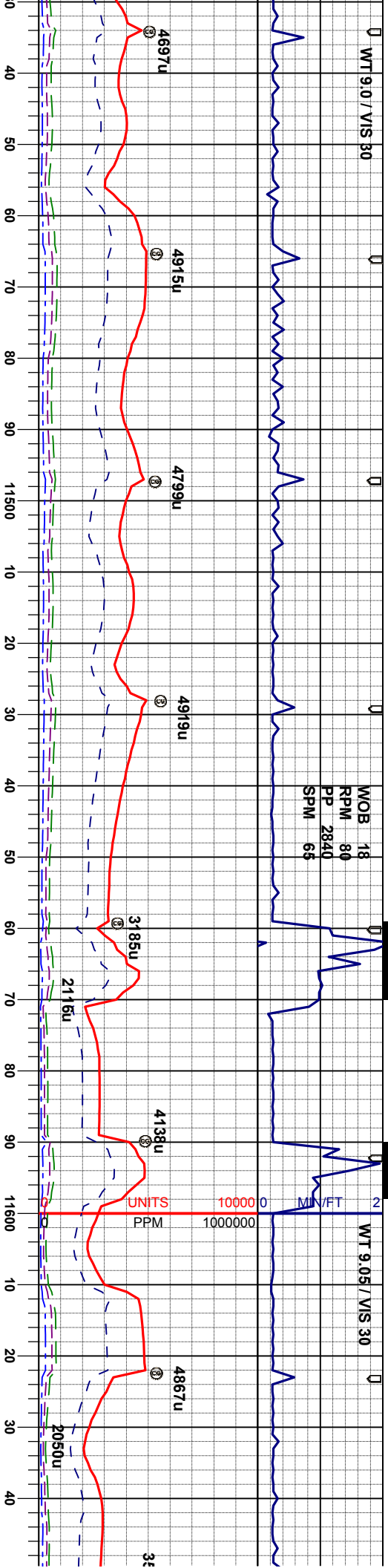
MD	11287'
INC	90.0°
AZI	91.4°
TVD	6876.3'
MD	11381'
INC	90.5°
AZI	92.1°
TVD	6875.9'
PROBABLE FAULT	

CHK: lt-mgy, mot-stri, sft-sifirm, biky-sbbiky, rthy lstr, vcalc
MR.L: m-dkgy, sft-mfirm, sbbiky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, occ bent, occ fos frag

CHK: lt-mgy, mot-stri, sft-sifirm, biky-sbbiky, rthy lstr, vcalc
MR.L: m-dkgy, sft-mfirm, sbbiky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, abnt bent, occ fos frag

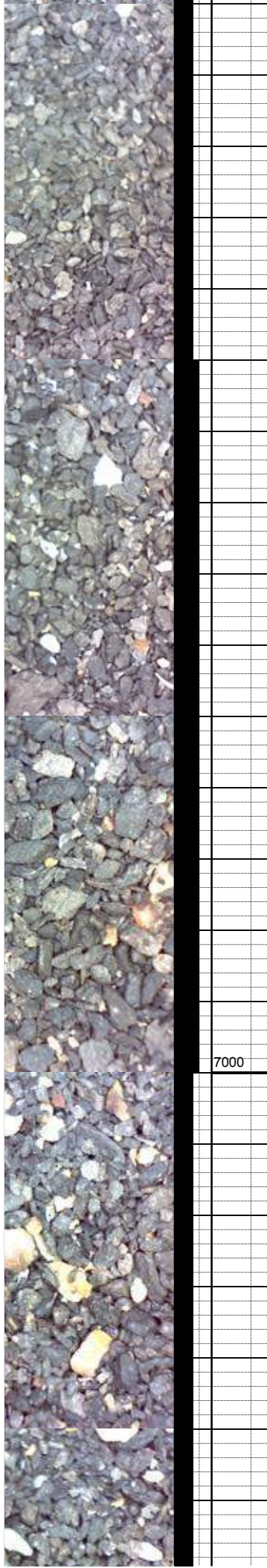
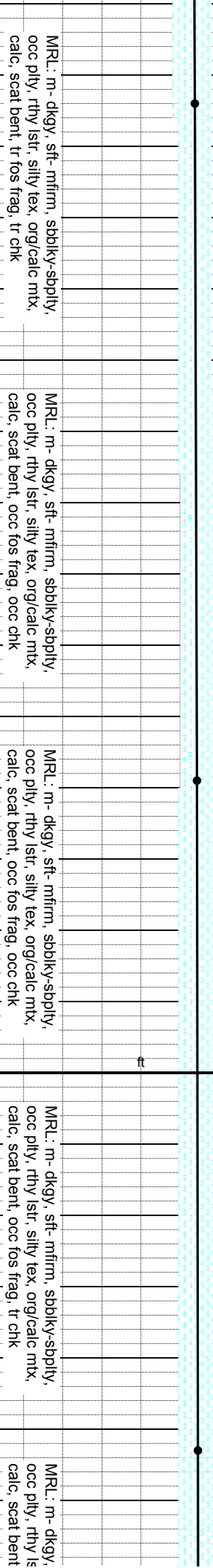
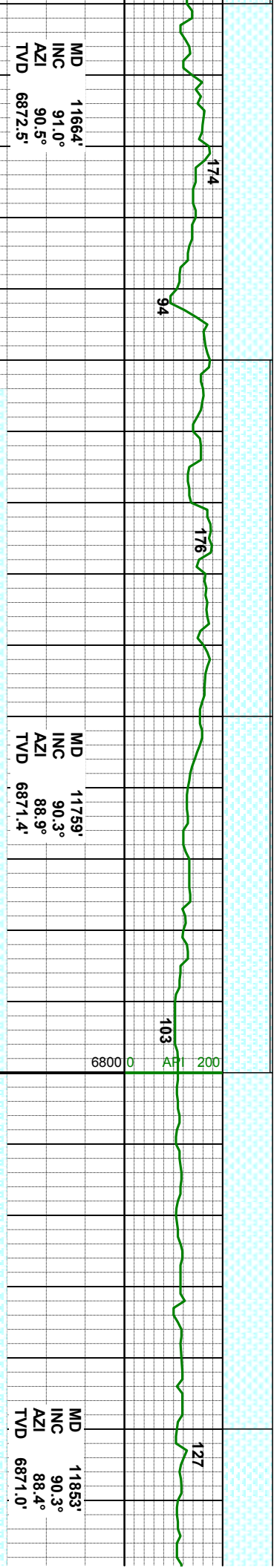
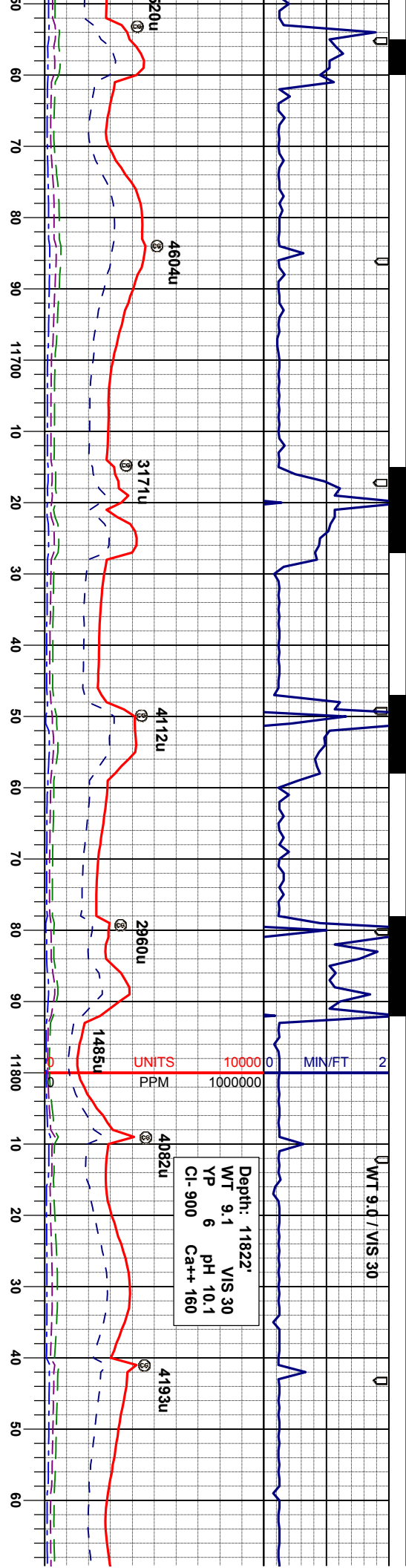
CHK: lt-mgy, mot-stri, sft-sifirm, biky-sbbiky, rthy lstr, vcalc
MR.L: m-dkgy, sft-mfirm, sbbiky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, abnt bent, occ fos frag

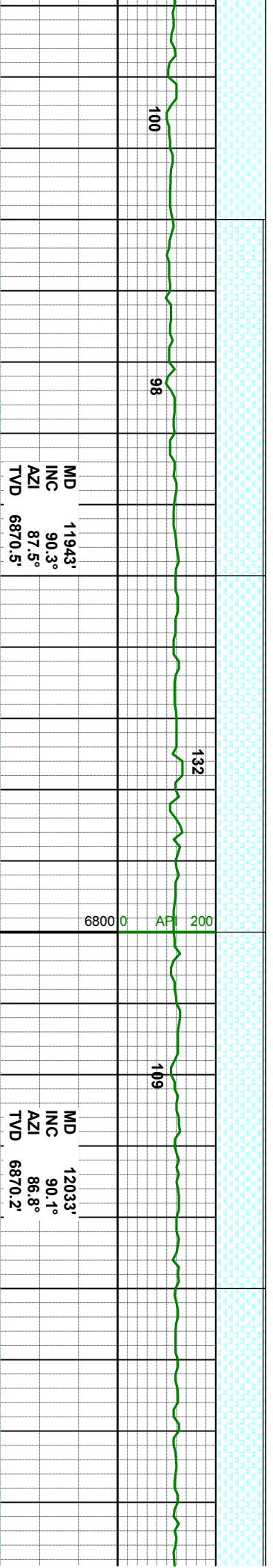
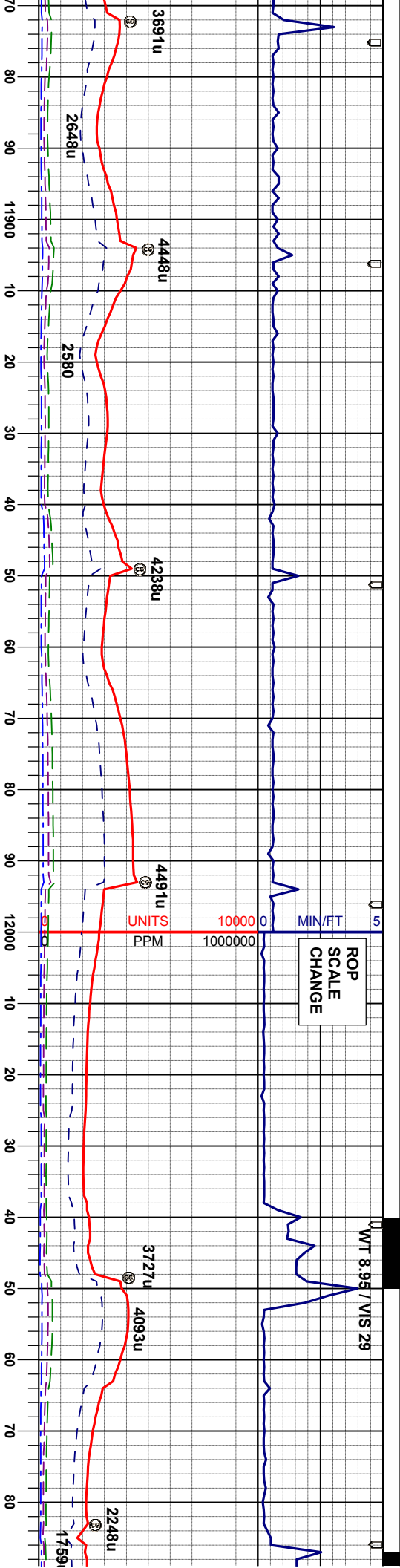




sbblky-sbply, org/calc mtx, ag	MRL: m- dkgy, sft- mfirm, sbblky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, abnt bent, abnt fos frag CHK: lt- mgy, mot-str, sft- sfirm, blk- sbblky, rthy lstr, vcalc	MRL: m- dkgy, sft- mfirm, sbblky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, occ bent, occ fos frag CHK: lt- mgy, mot-str, sft- sfirm, blk- sbblky, rthy lstr, vcalc	MRL: m- dkgy, sft- mfirm, sbblky-sbply, occ ply, rthy lstr, silty tex, org/calc mtx, calc, occ bent, occ fos frag CHK: lt- mgy, mot-str, sft- sfirm, blk- sbblky, rthy lstr, vcalc
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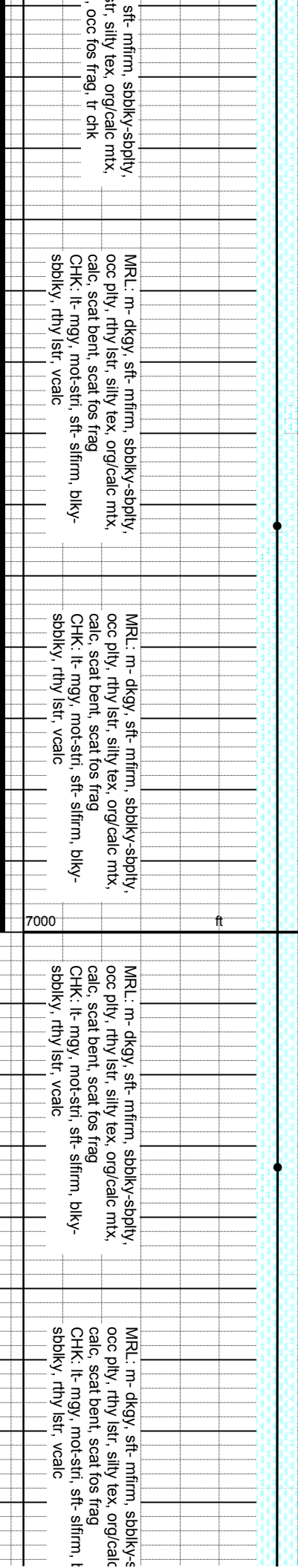






MD 11943'
INC 90.3°
AZI 87.5°
TVD 6870.5'

MD 12033'
INC 90.1°
AZI 86.8°
TVD 6870.2'



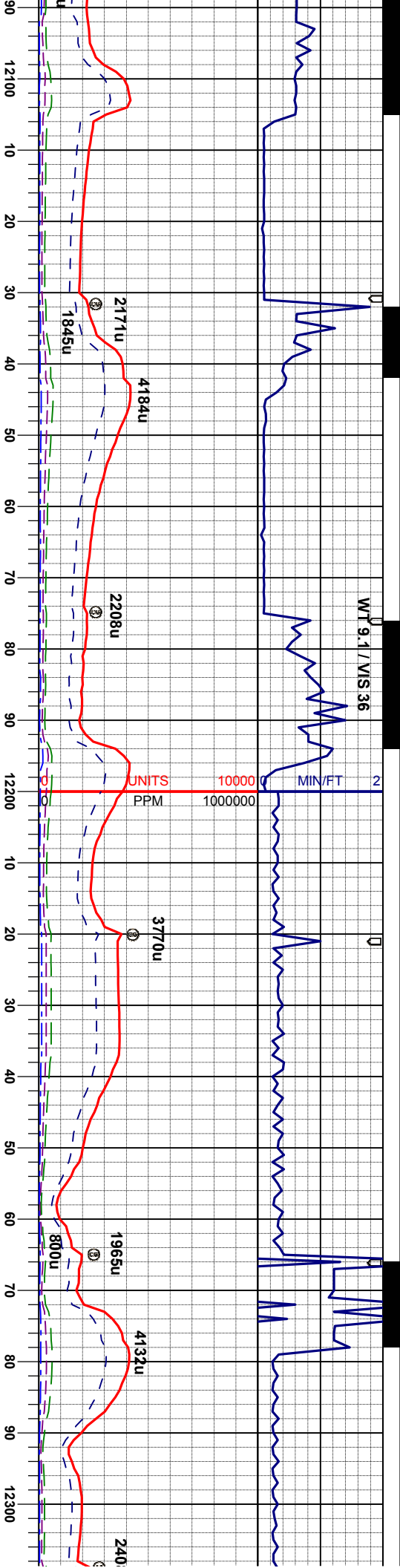
MRL: m- dkgy, sft- mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, scat bent, scat fos frag
CHK: lt- mgy, mot-str, sft- sfirm, biky-
sbiky, rthy lstr, vcalc

MRL: m- dkgy, sft- mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, scat bent, scat fos frag
CHK: lt- mgy, mot-str, sft- sfirm, biky-
sbiky, rthy lstr, vcalc

MRL: m- dkgy, sft- mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, scat bent, scat fos frag
CHK: lt- mgy, mot-str, sft- sfirm, biky-
sbiky, rthy lstr, vcalc

MRL: m- dkgy, sft- mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, scat bent, scat fos frag
CHK: lt- mgy, mot-str, sft- sfirm, biky-
sbiky, rthy lstr, vcalc





MD 12122'
INC 89.3°
AZI 87.1°
TVD 6870.6'

MD 12212'
INC 88.9°
AZI 89.1°
TVD 6872.0'

MD 12302'
INC 89.4°
AZI 87.7°
TVD 6873.4'

MRL: m- dkgy, sft- mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, abnt bent, scat fos frag
CHK: lt- mgy, mot-stri, sft- sfirm, blk-
sbbiky, rthy lstr, vcalc

MRL: m- dkgy, sft- mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, scat bent, scat fos frag
CHK: lt- mgy, mot-stri, sft- sfirm, blk-
sbbiky, rthy lstr, vcalc

MRL: m- dkgy, sft- mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, scat bent, scat fos frag
CHK: lt- mgy, mot-stri, sft- sfirm, blk-
sbbiky, rthy lstr, vcalc

MRL: m- dkgy, sft- mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, scat bent, scat fos frag
CHK: lt- mgy, mot-stri, sft- sfirm, blk-
sbbiky, rthy lstr, vcalc

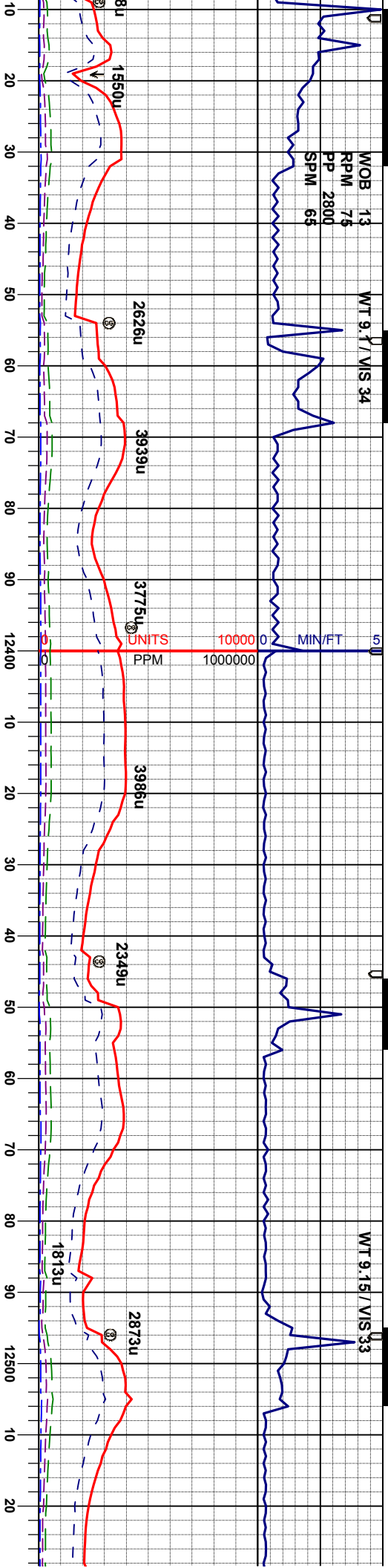
MRL: m- dkgy, sft- mfirm, sbbiky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, scat bent, scat fos frag
CHK: lt- mgy, mot-stri, sft- sfirm, blk-
sbbiky, rthy lstr, vcalc



MOB 13
RPM 75
PP 2800
SPM 65

WT 9.1 / MS 34

WT 9.15 / VS 33



MD 12392'
INC 90.0°
AZI 88.9°
TVD 6873.9'

MD 12482'
INC 89.3°
AZI 86.6°
TVD 6874.4'

L: m- dkgy, sft- mfirm, sbblky-sbpity,
ply, rthy lstr, silty tex, org/calc mtz,
2, scat bent, scat fos frag
CHK: lt- mgy, mot-str, sft- sifirm, blk-
ky, rthy lstr, vcalc

MR.L: m- dkgy, sft- mfirm, sbblky-sbpity,
occ ply, rthy lstr, silty tex, org/calc mtz,
calc, scat bent, tr fos frag
CHK: lt- mgy, mot-str, sft- sifirm, blk-
sbblky, rthy lstr, vcalc

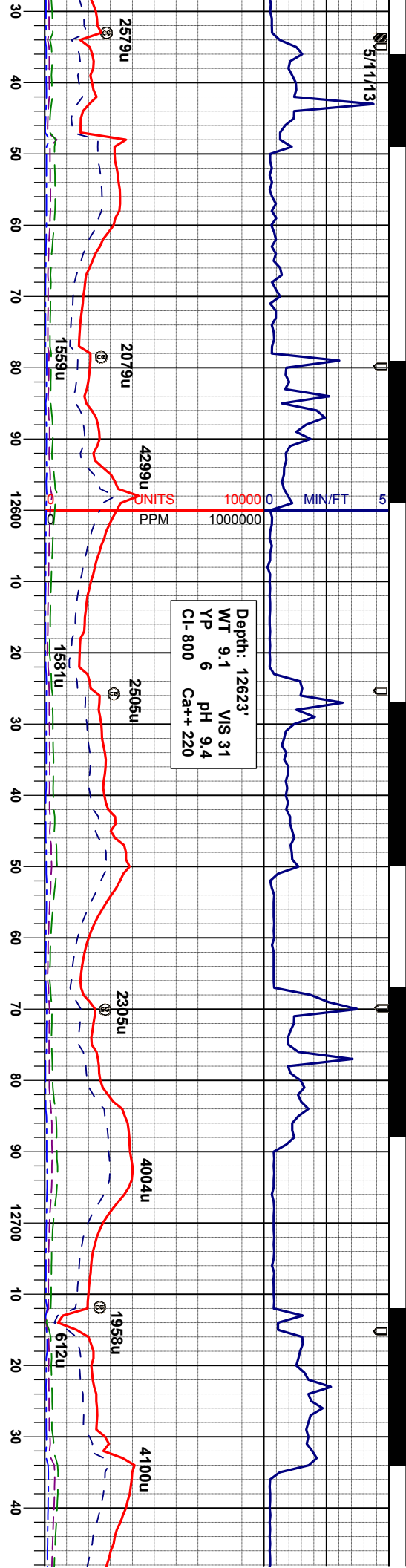
MR.L: m- dkgy, sft- mfirm, sbblky-sbpity,
occ ply, rthy lstr, silty tex, org/calc mtz,
calc, scat bent, tr fos frag
CHK: lt- mgy, mot-str, sft- sifirm, blk-
sbblky, rthy lstr, vcalc

MR.L: m- dkgy, sft- mfirm, sbblky-sbpity,
occ ply, rthy lstr, silty tex, org/calc mtz,
calc, scat bent, tr fos frag
CHK: lt- mgy, mot-str, sft- sifirm, blk-
sbblky, rthy lstr, vcalc

MR.L: m- dkgy, sft- mfirm, sbblky-sbpity,
occ ply, rthy lstr, silty tex, org/calc mtz,
calc, scat bent, tr fos frag
CHK: lt- mgy, mot-str, sft- sifirm, blk-
sbblky, rthy lstr, vcalc



5/1/13



MD 12572'
INC 90.6°
AZI 85.9°
TVD 6874.5'

MD 12662'
INC 91.0°
AZI 88.2°
TVD 6873.2'

MD
INC
AZI
TVD

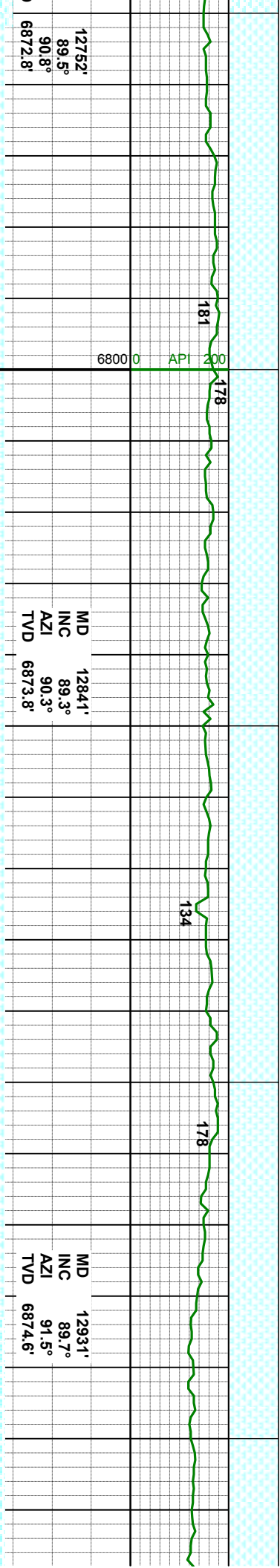
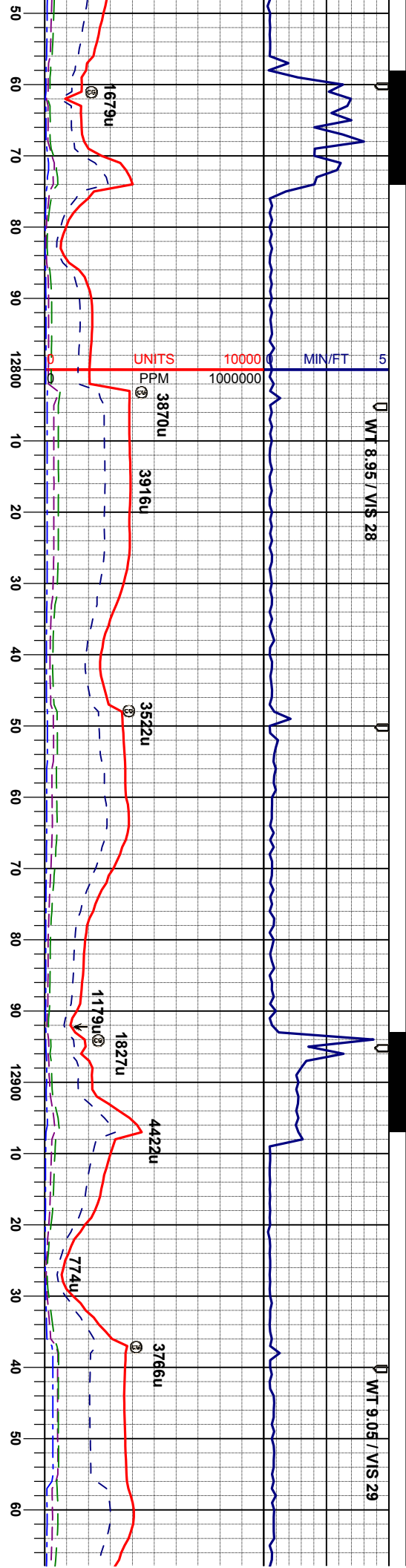
MR.L: m- dkgy, sft- mfirm, sbbiky-sbply,
occ pily, rthy lstr, silty tex, org/calc mtx,
calc, scat bent, scat fos frag
CHK: lt- mgy, mot-str, sft- sfirm, bkly-
sbbiky, rthy lstr, vcalc

MR.L: m- dkgy, sft- mfirm, sbbiky-sbply,
occ pily, rthy lstr, silty tex, org/calc mtx,
calc, abnt bent, occ fos frag, occ chk

MR.L: m- dkgy, sft- mfirm, sbbiky-sbply,
occ pily, rthy lstr, silty tex, org/calc mtx,
calc, abnt bent, occ fos frag, occ chk

MR.L: m- dkgy, sft- mfirm, sbbiky-sbply,
occ pily, rthy lstr, silty tex, org/calc mtx,
calc, scat bent, occ fos frag





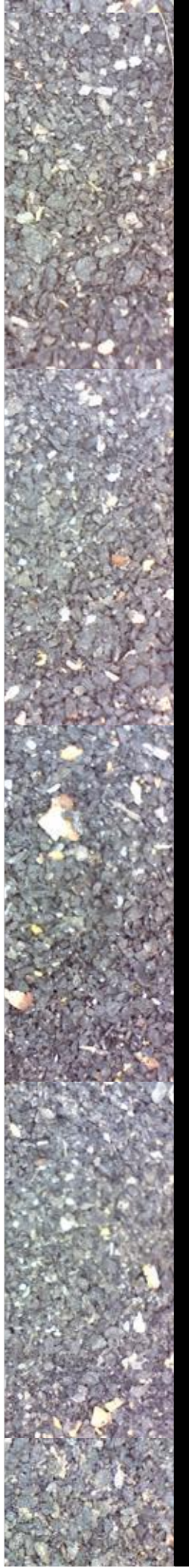
MRL: m- dkgy, sft- mfirm, sbblky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtz,
calc, scat bent, occ fos frag

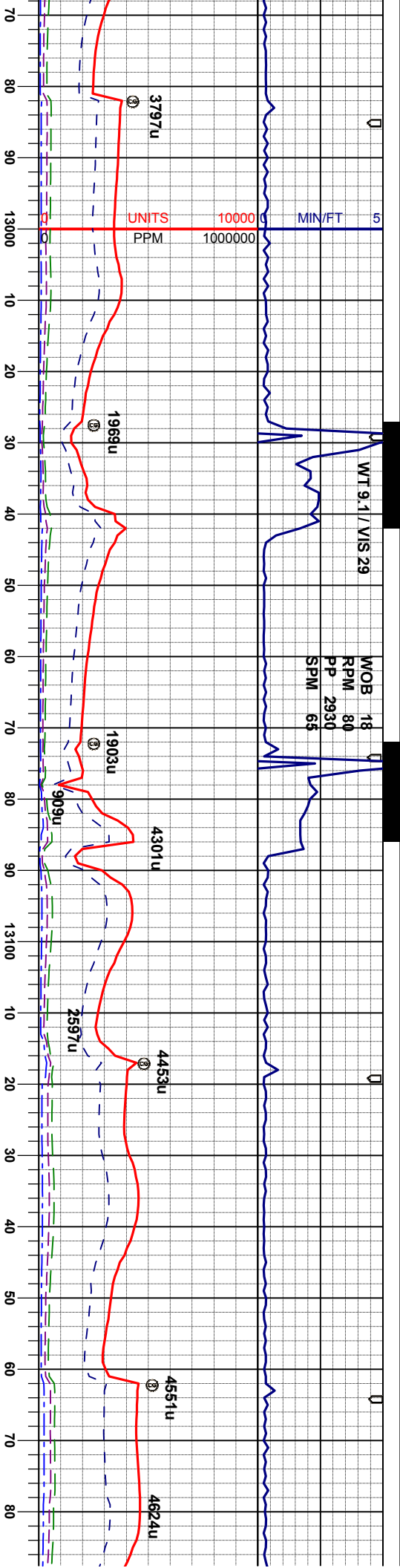
MRL: m- dkgy, sft- mfirm, sbblky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtz,
calc, occ bent, occ fos frag

MRL: m- dkgy, sft- mfirm, sbblky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtz,
calc, occ bent, occ fos frag

MRL: m- dkgy, sft- mfirm, sbblky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtz,
calc, occ bent, abnt fos frag, sl tr chk

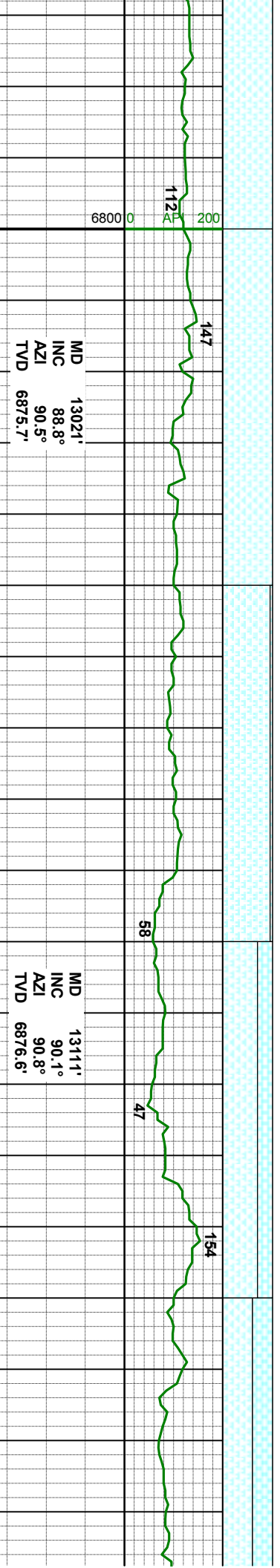
MRL: m- dkgy,
occ ply, rthy
calc, occ ben





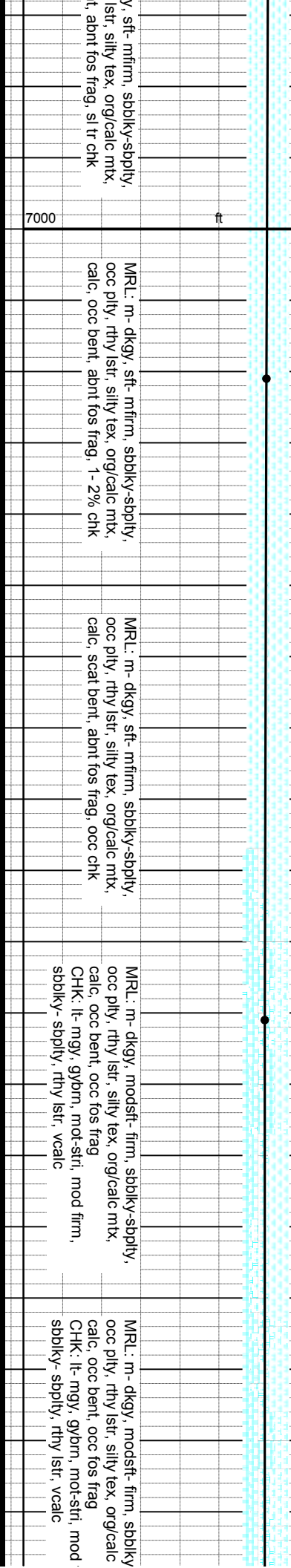
WT 9.1 / VIS 29

MOB 18
RPM 80
PP 2930
SPM 65



MD 13021'
INC 88.8°
AZI 90.5°
TVD 6875.7'

MD 13111'
INC 90.1°
AZI 90.8°
TVD 6876.6'



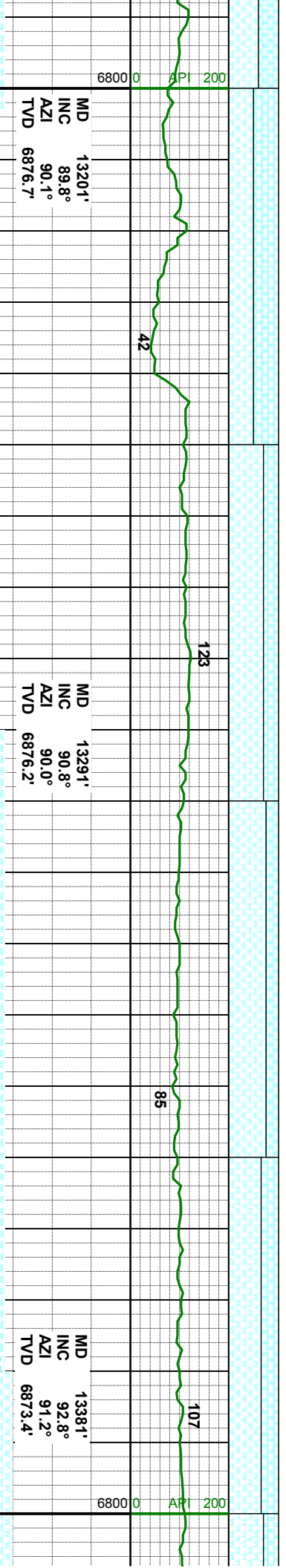
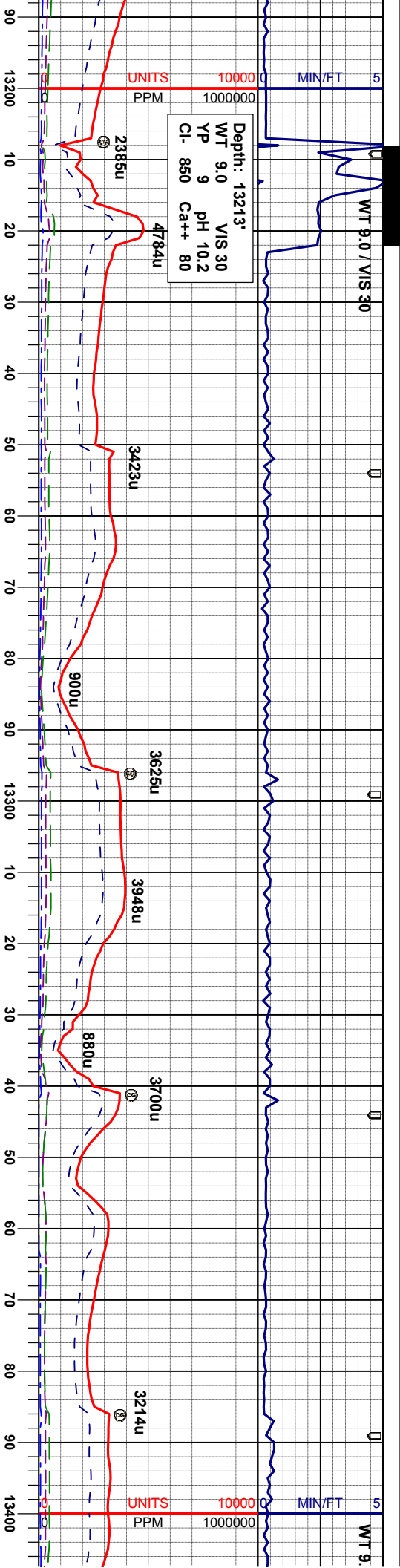
MRL: m- dkgy, sft- mfirm, sbblky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtz,
calc, occ bent, abnt fos frag, 1- 2% chk

MRL: m- dkgy, sft- mfirm, sbblky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtz,
calc, scat bent, abnt fos frag, occ chk

MRL: m- dkgy, modstf- firm, sbblky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtz,
calc, occ bent, occ fos frag
CHK: lt- mgy, gybrn, mot-stri, mod firm,
sbblky- sbply, rthy lstr, vcalc

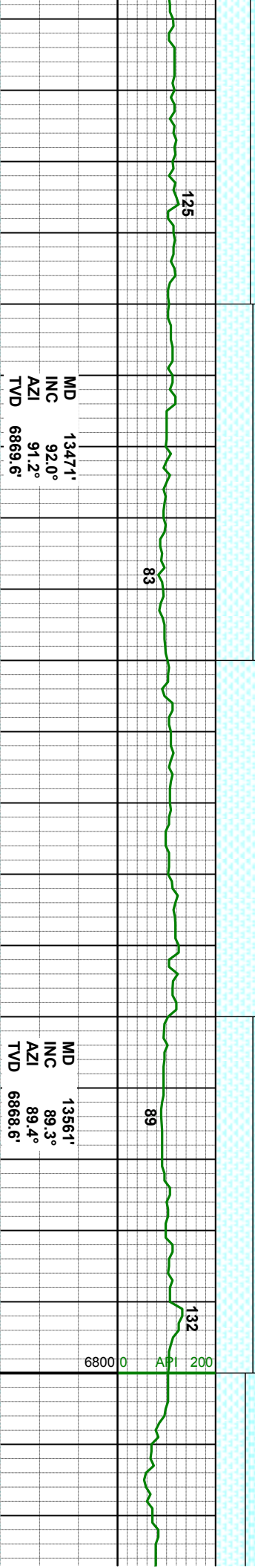
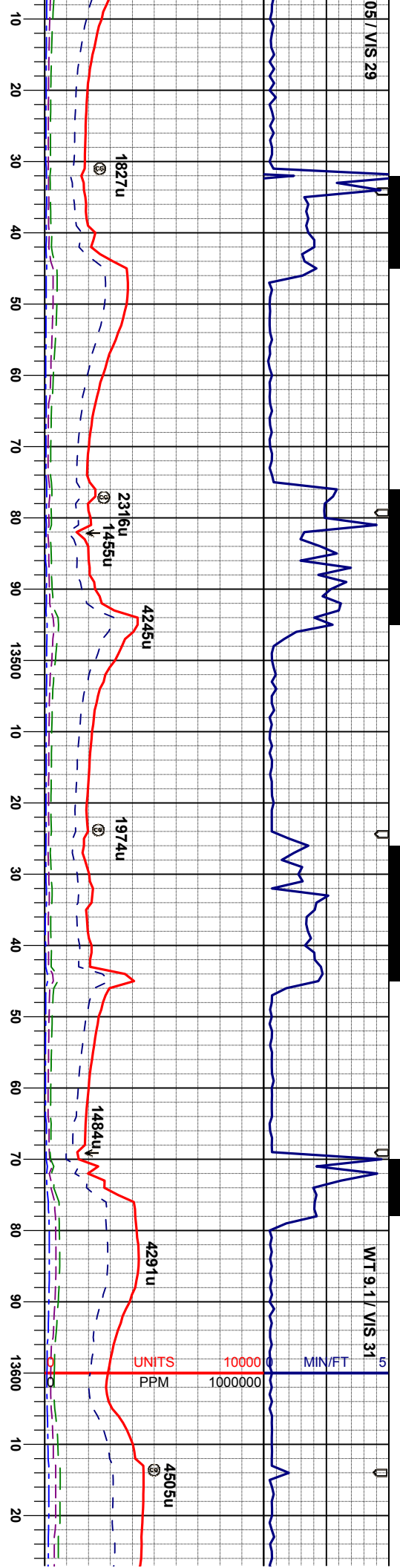
MRL: m- dkgy, modstf- firm, sbblky-
occ ply, rthy lstr, silty tex, org/calc
calc, occ bent, occ fos frag
CHK: lt- mgy, gybrn, mot-stri, mod
sbblky- sbply, rthy lstr, vcalc



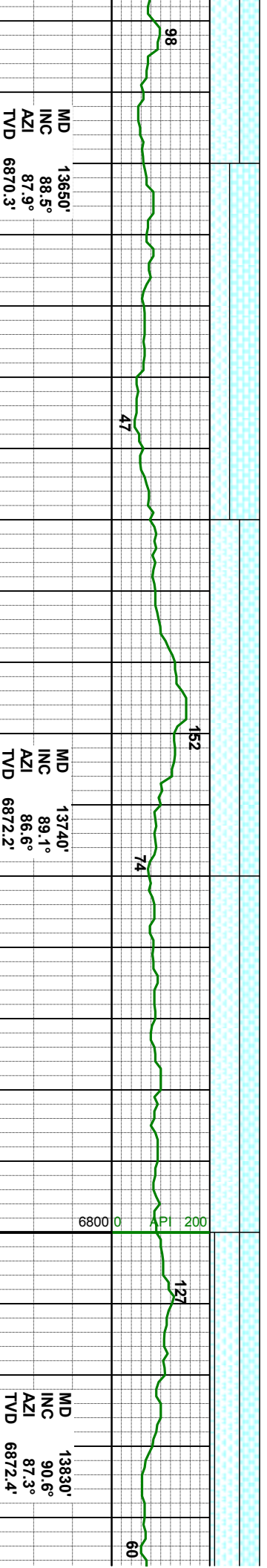
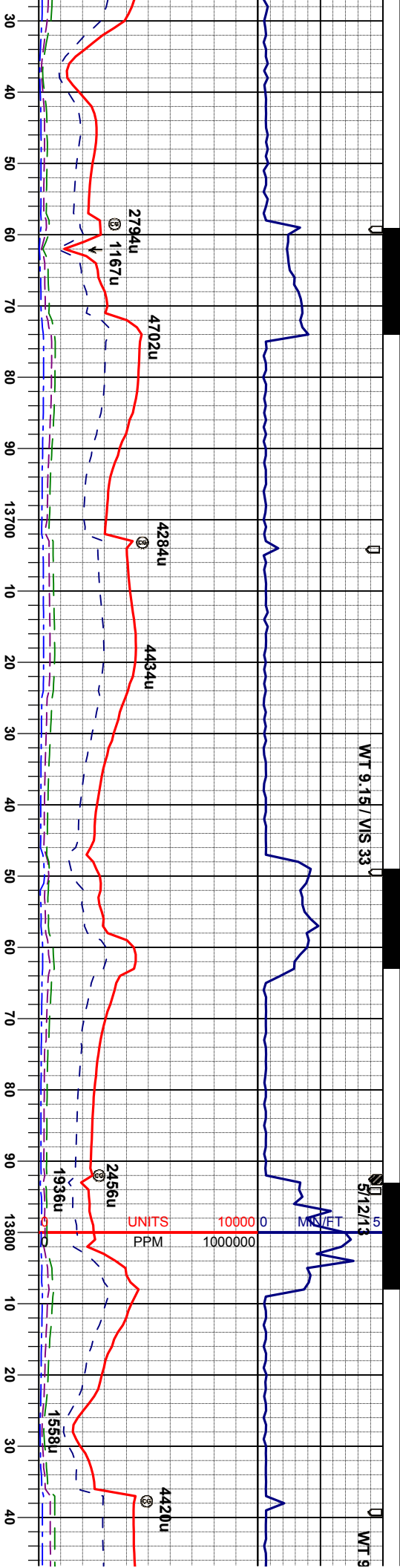


MR.L: m- dkgy, modstf- firm, sbblky-sbply, occ pily, rthy lstr, silty tex, org/calc mtx, calc, occ bent, occ fos frag	MR.L: m- dkgy, modstf- firm, sbblky-sbply, occ pily, rthy lstr, silty tex, org/calc mtx, calc, occ bent, occ fos frag	MR.L: m- dkgy, modstf- firm, sbblky-sbply, occ pily, rthy lstr, silty tex, org/calc mtx, calc, occ bent, tr fos frag	MR.L: m- dkgy, modstf- firm, sbblky-sbply, occ pily, rthy lstr, silty tex, org/calc mtx, calc, occ bent, tr fos frag
CHK: lt- mgy, gybrn, mot-str, mod firm, sbblky- sbply, rthy lstr, vcalc	CHK: lt- mgy, gybrn, mot-str, mod firm, sbblky- sbply, rthy lstr, vcalc	CHK: lt- mgy, gybrn, mot-str, mod firm, sbblky- sbply, rthy lstr, vcalc	CHK: lt- mgy, gybrn, mot-str, mod firm, sbblky- sbply, rthy lstr, vcalc





<p>MD: m-dkgy, modstf-firm, sbbiky-sbply, occ pily, rthy lstr, silty tex, org/calc mt, calc, tr bent, tr fos frag</p> <p>CHK: lt-mgy, gybrn, mot-stri, mod firm, sbbiky-sbply, rthy lstr, vcalc</p>	<p>MD: m-dkgy, modstf-firm, sbbiky-sbply, occ pily, rthy lstr, silty tex, org/calc mt, calc, tr bent, tr fos frag</p> <p>CHK: lt-mgy, gybrn, mot-stri, mod firm, sbbiky-sbply, rthy lstr, vcalc</p>	<p>MD: m-dkgy, modstf-firm, sbbiky-sbply, occ pily, rthy lstr, silty tex, org/calc mt, calc, tr bent, tr fos frag</p> <p>CHK: lt-mgy, gybrn, mot-stri, mod firm, sbbiky-sbply, rthy lstr, vcalc</p>	<p>MD: m-dkgy, modstf-firm, sbbiky-sbply, occ pily, rthy lstr, silty tex, org/calc mt, calc, tr bent, tr fos frag</p> <p>CHK: lt-mgy, gybrn, mot-stri, mod firm, sbbiky-sbply, rthy lstr, vcalc</p>	<p>MD: m-dkgy, modstf-firm, sbbiky-sbply, occ pily, rthy lstr, silty tex, org/calc mt, calc, tr bent, tr fos frag</p> <p>CHK: lt-mgy, gybrn, mot-stri, mod firm, sbbiky-sbply, rthy lstr, vcalc</p>
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firm, sbblky-sbply, ex, orgcalc mt, ot-stri, mod firm, vcalc

CHK: lt-mgy, gybrn, mot-stri, mod firm, sbblky-sbply, rthy lstr, vcalc, tr bent, tr fos frag

MRL: m-dkgy, modstf-firm, sbblky-sbply, occ ply, rthy lstr, silty tex, orgcalc mt, calc, tr bent, tr fos frag

CHK: lt-mgy, gybrn, mot-stri, mod firm, sbblky-sbply, rthy lstr, vcalc

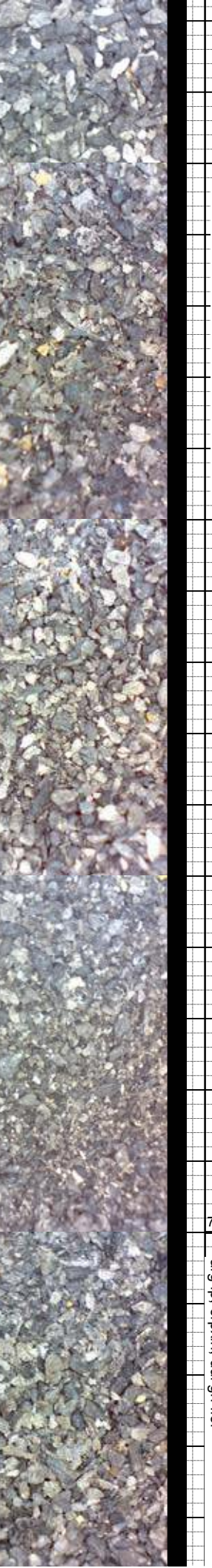
MRL: m-dkgy, modstf-firm, sbblky-sbply, occ ply, rthy lstr, silty tex, orgcalc mt, calc, tr bent, tr fos frag

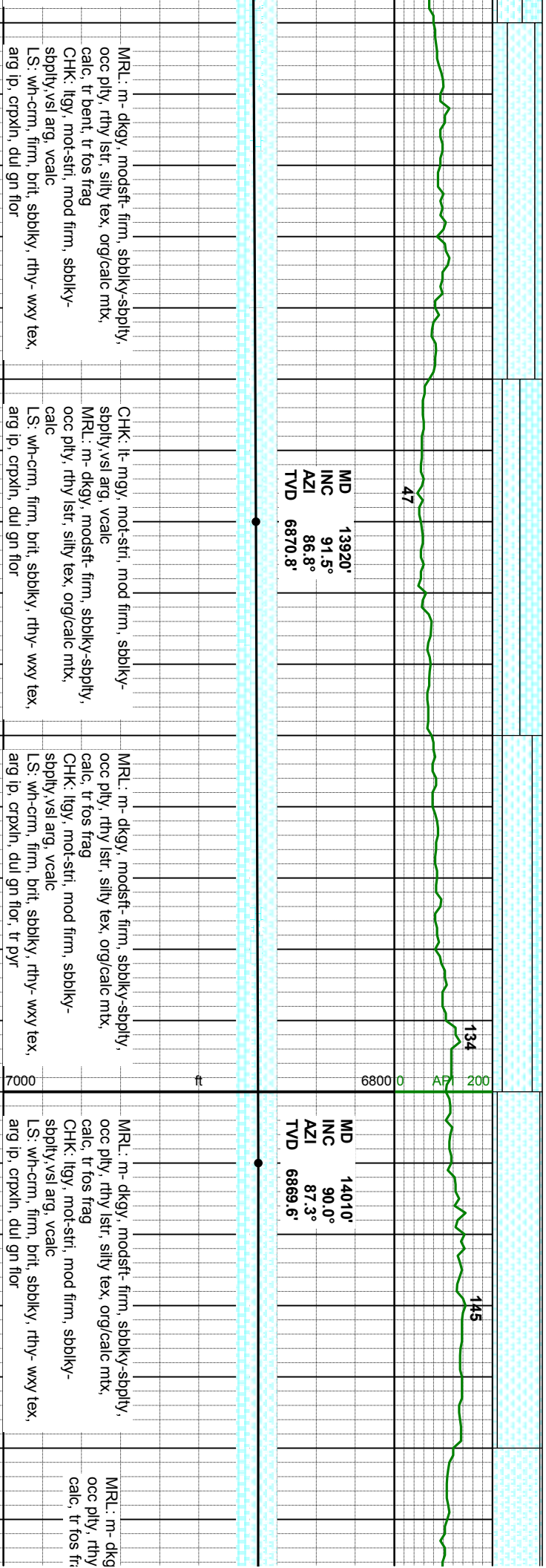
CHK: lt-mgy, gybrn, mot-stri, mod firm, sbblky-sbply, rthy lstr, vcalc

MRL: m-dkgy, modstf-firm, sbblky-sbply, occ ply, rthy lstr, silty tex, orgcalc mt, calc, tr bent, tr fos frag

CHK: ltgy, mot-stri, mod firm, sbblky-sbply, vsi arg, vcalc

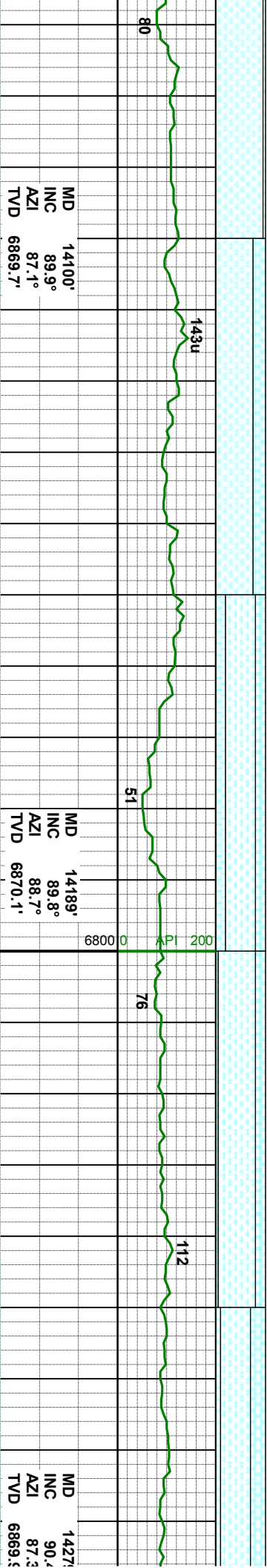
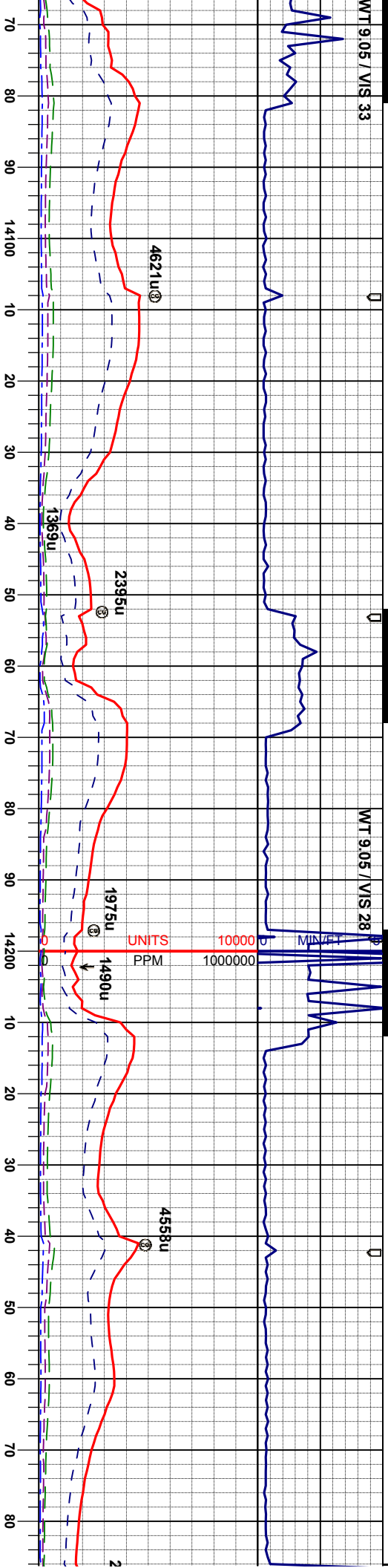
LS: wh-ern, firm, brit, sbblky, rthy- wxy tex, arg ip, crpxln, dul gn flr





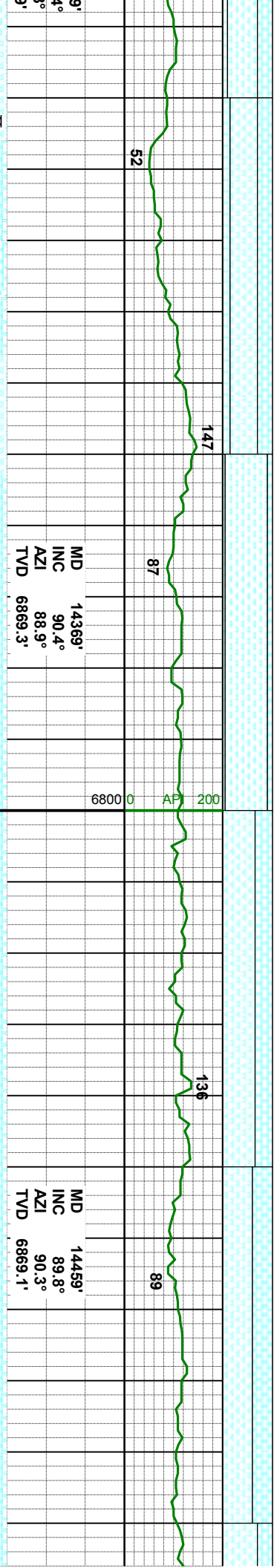
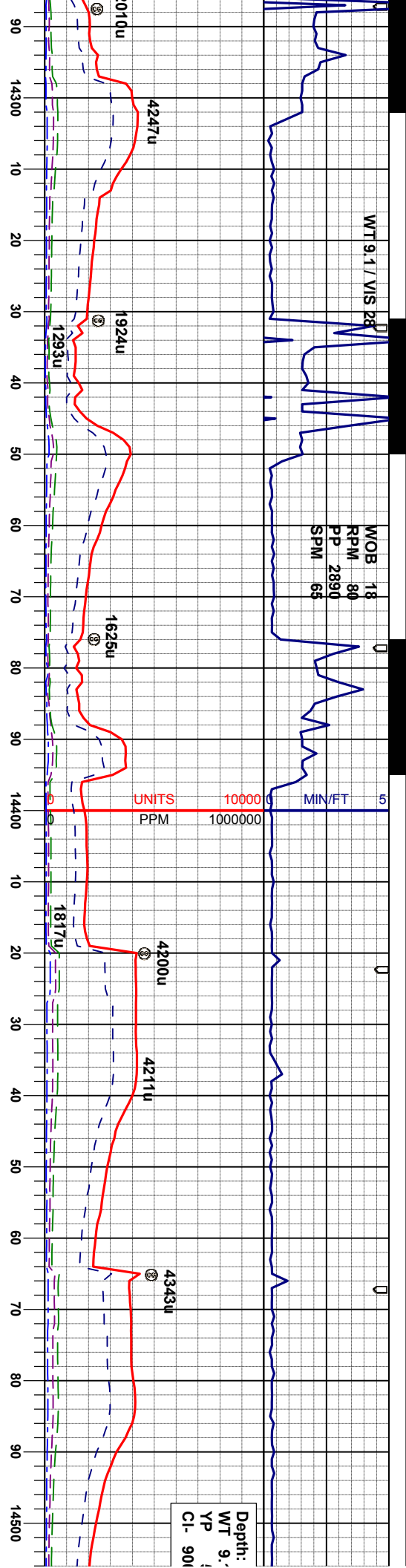
WT 9.05 / VIS 33

WT 9.05 / VIS 28



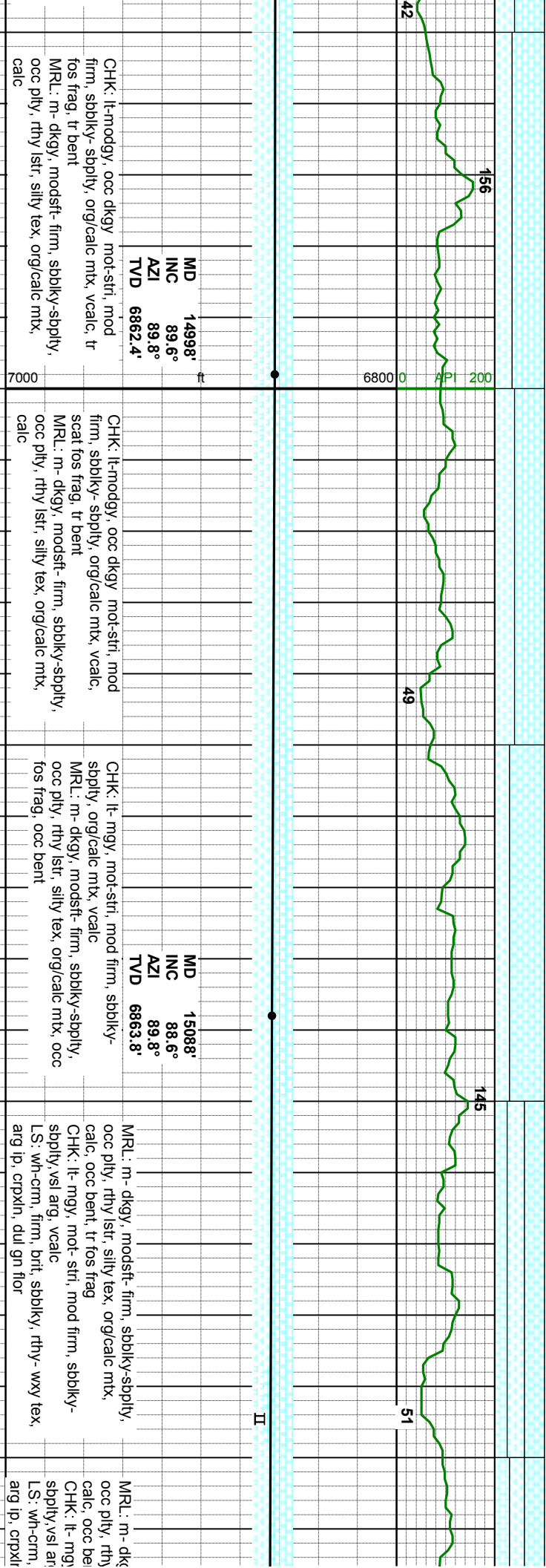
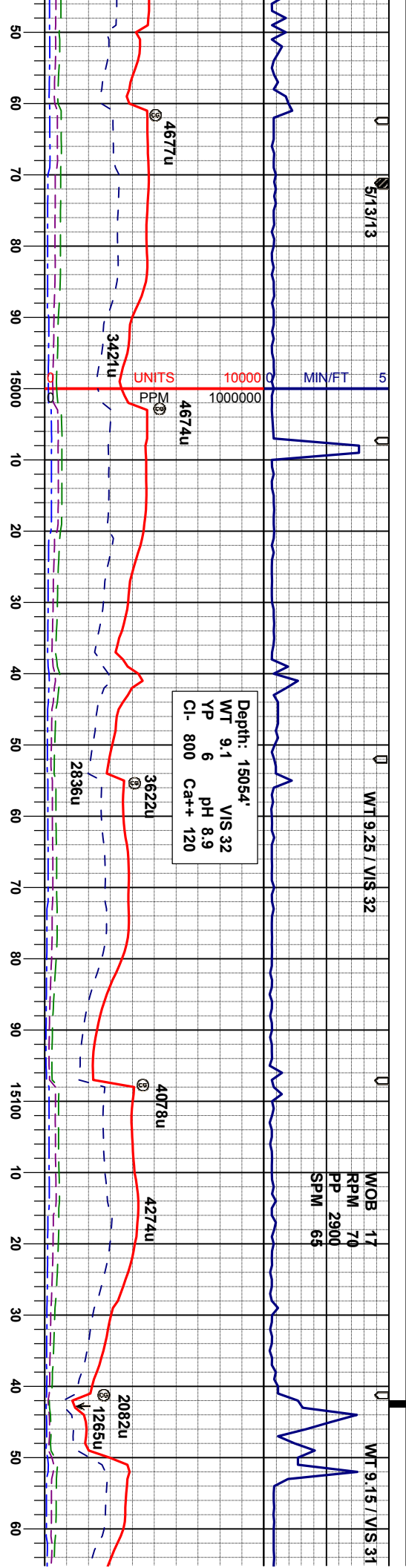
MD 14100'	MD 14189'	MD 1427'
INC 89.9°	INC 89.8°	INC 90.4
AZI 87.1°	AZI 88.7°	AZI 87.3
TVD 6869.7'	TVD 6870.1'	TVD 6869.5
MRL: m- dkgy, modstf- firm, sbblky-sbply, occ pily, rthy lstr, silty tex, org/calc mtx, calc, tr bent, tr fos frag	MRL: m- dkgy, modstf- firm, sbblky-sbply, occ pily, rthy lstr, silty tex, org/calc mtx, calc, tr bent, tr fos frag	MRL: m- dkgy, modstf- firm, sbblky-sbply, occ pily, rthy lstr, silty tex, org/calc mtx, calc, tr bent, tr fos frag
CHK: lt- mgy, mot-str, mod firm, sbblky-sbply, rthy lstr, vcalc	CHK: lt- mgy, mot-str, mod firm, sbblky-sbply, vsl arg, vcalc	CHK: lt- mgy, mot-str, mod firm, sbblky-sbply, vsl arg, vcalc
LS: wh-crm, firm, brit, sbblky, rthy- wxy tex, arg ip, crpxin, dul gn flr	LS: wh-crm, firm, brit, sbblky, rthy- wxy tex, arg ip, crpxin, dul gn flr	LS: wh-crm, firm, brit, sbblky, rthy- wxy tex, arg ip, crpxin, dul gn flr

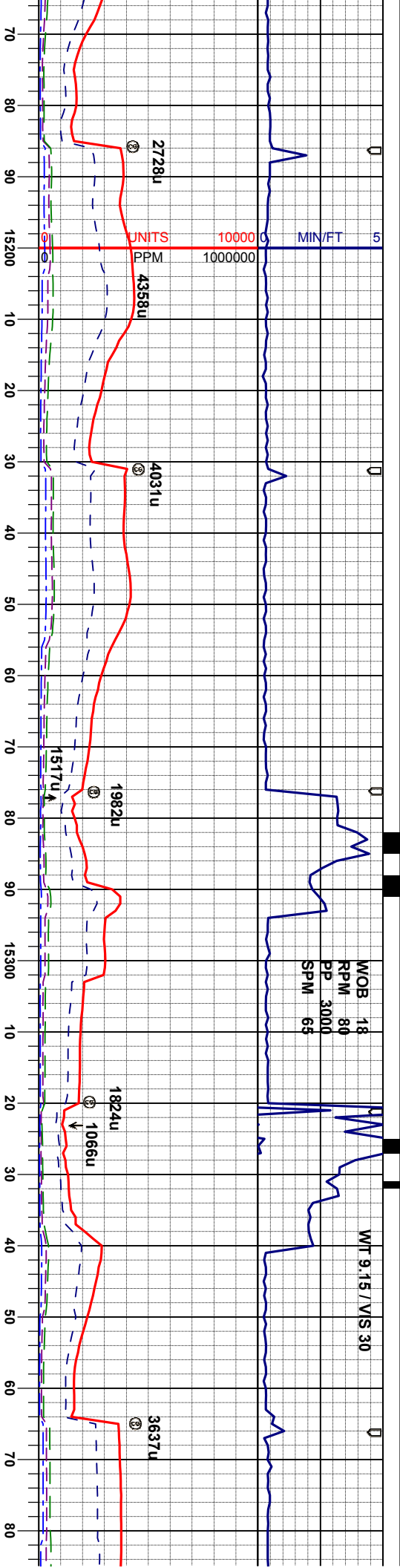




II		II		II	
y-sbply, c mix, sbblky-		MRL: m- dky, modstf- firm, sbblky-sbply, occ ply, rthy lst, silty tex, org/calc mt, calc, tr bent, tr fos frag		MRL: m- dky, modstf- firm, sbblky-sbply, occ ply, rthy lst, silty tex, org/calc mt, calc, occ bent, occ fos frag	
CHK: lt- mgy, mot-stri, mod firm, sbblky-sbply, vsi arg, vcalc		CHK: lt- mgy, mot-stri, mod firm, sbblky-sbply, vsi arg, vcalc		CHK: lt- mgy, mot-stri, mod firm, sbblky-sbply, vsi arg, vcalc	
LS: wh-crm, firm, brt, sbblky, rthy- wxy tex, arg ip, cpxin, du gn flr		LS: wh-crm, firm, brt, sbblky, rthy- wxy tex, arg ip, cpxin, du gn flr		LS: wh-crm, firm, brt, sbblky, rthy- wxy tex, arg ip, cpxin, du gn flr	
7000		7000		7000	







6800 0 API 200

58

127

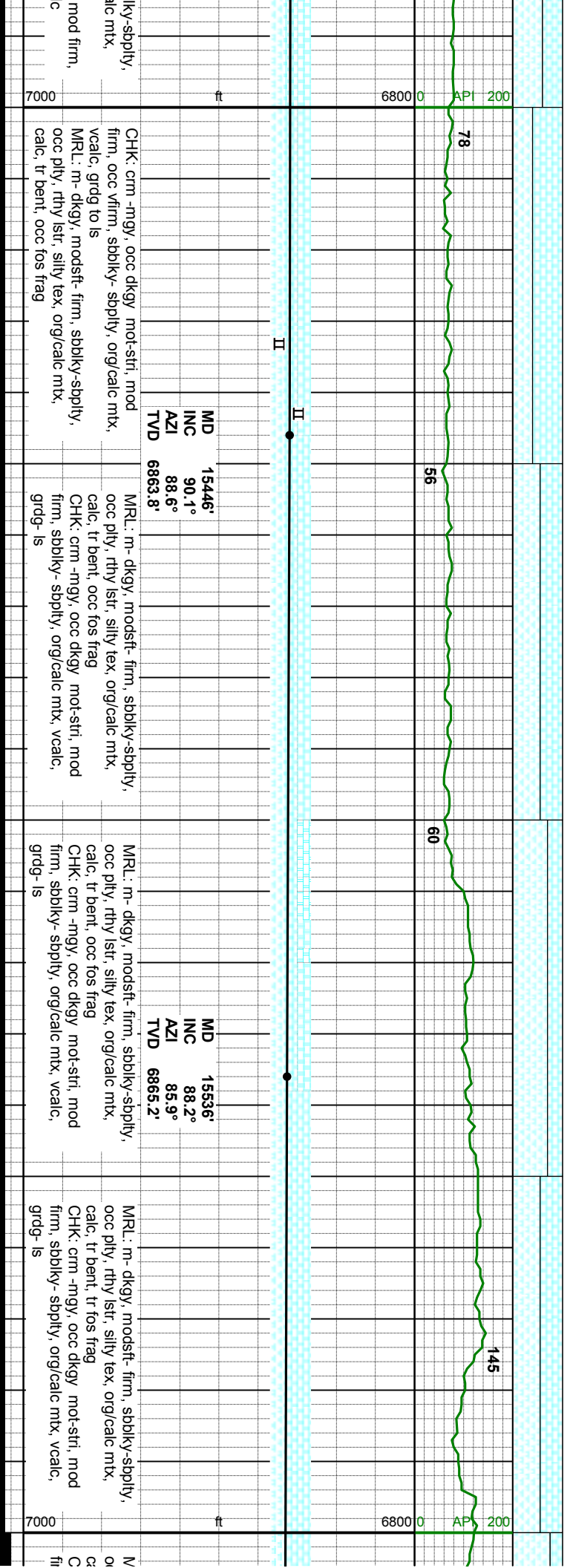
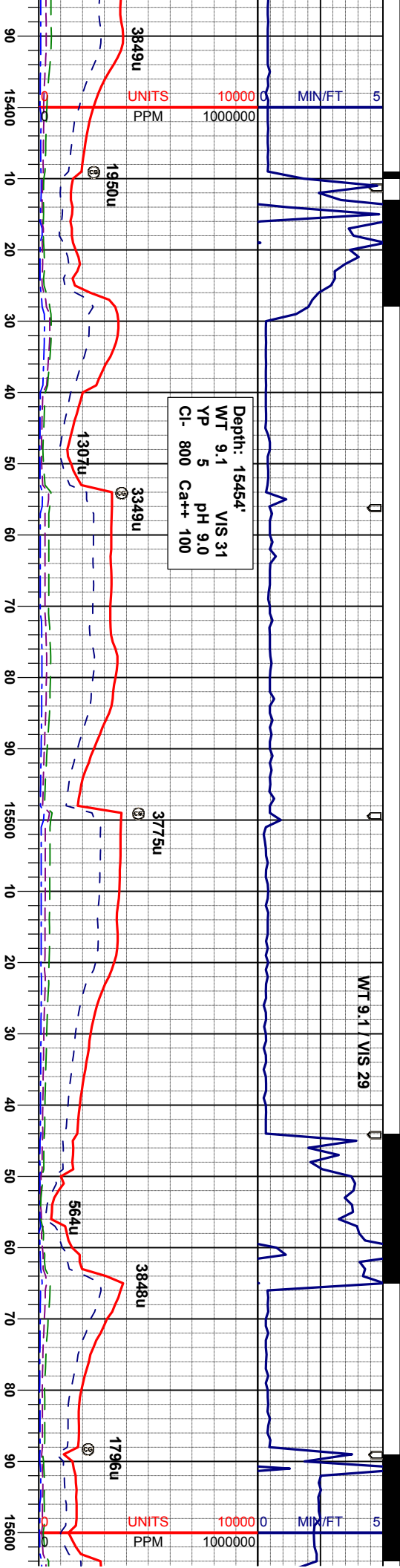
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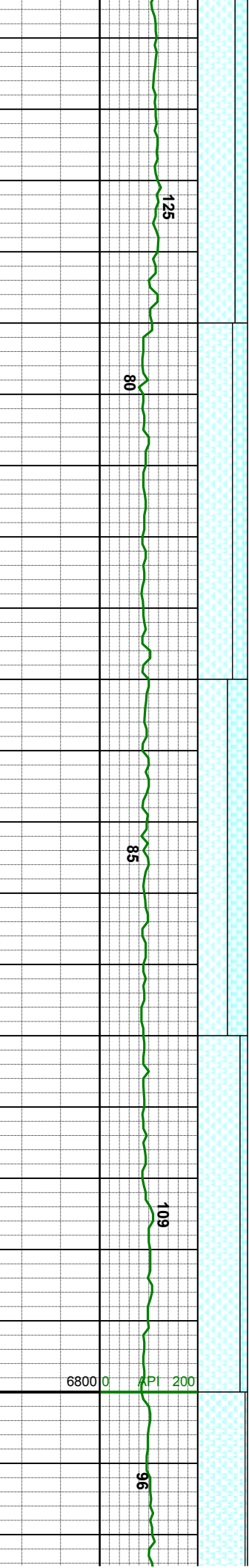
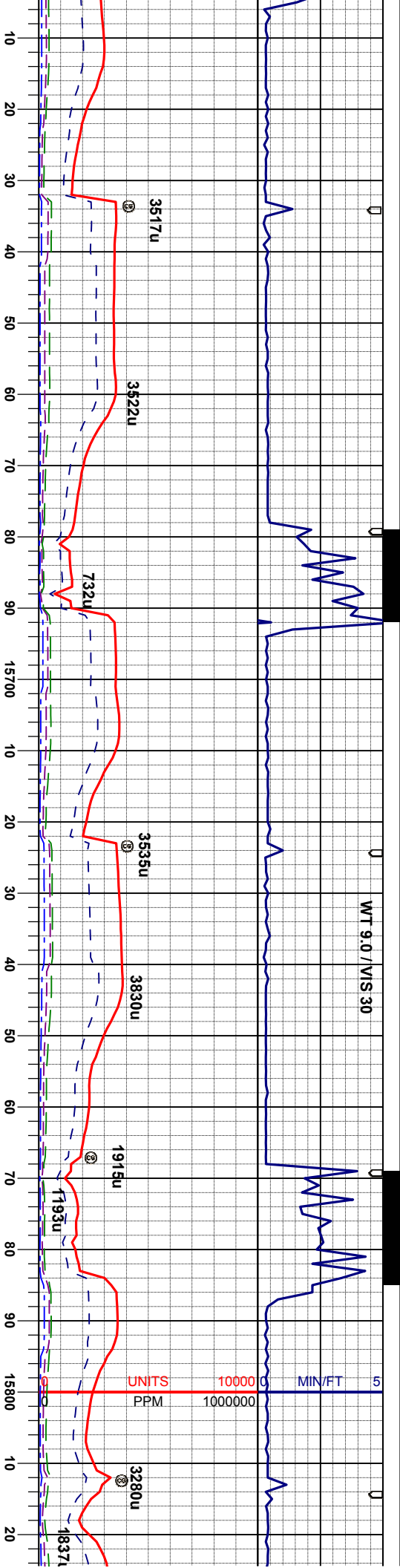
71

II

MD 15178'	MD 15268'	MD 15368'
INC 90.0°	INC 91.3°	INC 89.3°
AZI 88.4°	AZI 86.4°	AZI 87.9°
TVD 6864.9'	TVD 6863.8'	TVD 6863.4'
CHK: lt-mgy, modstf-firm, sbbky-sbply, /lstr, silty tex, org/calc mtx, nt, tr fos frag	CHK: lt-mgy, modstf-firm, sbbky-sbply, org/calc mtx, vcalc	MRL: m-dkgy, modstf-firm, sbbky-sbply, occ pily, rthy lstr, silty tex, org/calc mtx, calc, tr bent, occ fos frag, CHK: lt-mgy, occ dkgy mod-stri, mod firm, sbbky-sbply, org/calc mtx, vcalc
g, vcalc	MRL: m-dkgy, modstf-firm, sbbky-sbply, occ pily, rthy lstr, silty tex, org/calc mtx, tr fos frag, occ bent, occ ls	MRL: m-dkgy, modstf-firm, sbbky-sbply, occ pily, rthy lstr, silty tex, org/calc mtx, calc, tr bent, occ fos frag, CHK: lt-mgy, occ dkgy mod-stri, sbbky-sbply, org/calc mtx, vcalc
firm, brit, sbbky, rthy- way tex, n, dul gn flr		
7000		







MD 15626'
INC 90.3°
AZI 88.0°
TVD 6866.3'

MRL: m- dkgy, modstf- firm, sbblky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, tr bent, occ fos frag
CHK: cm -ngy, occ dkgy mot-stri, mod
firm, sbblky-sbply, org/calc mtx, vcalc

MD 15716'
INC 90.7°
AZI 88.7°
TVD 6865.6'

MRL: m- dkgy, modstf- firm, sbblky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, tr bent, occ fos frag
CHK: cm -ngy, occ dkgy mot-stri, mod
firm, sbblky-sbply, org/calc mtx, vcalc

MD 15805'
INC 90.5°
AZI 90.0°
TVD 6864.6'

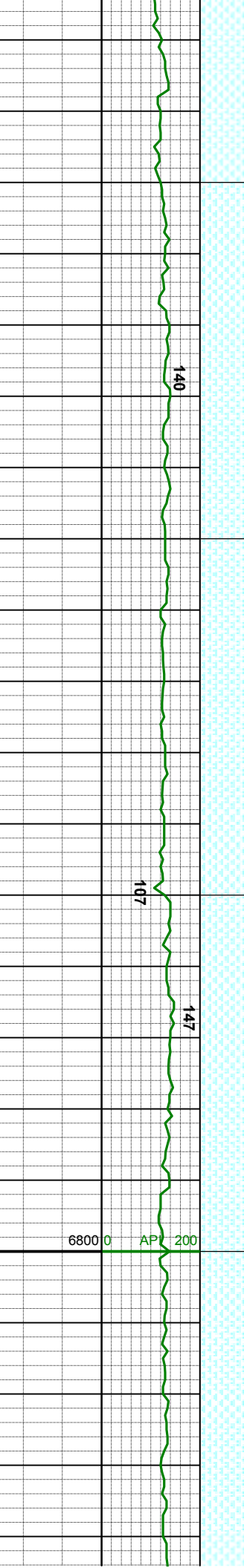
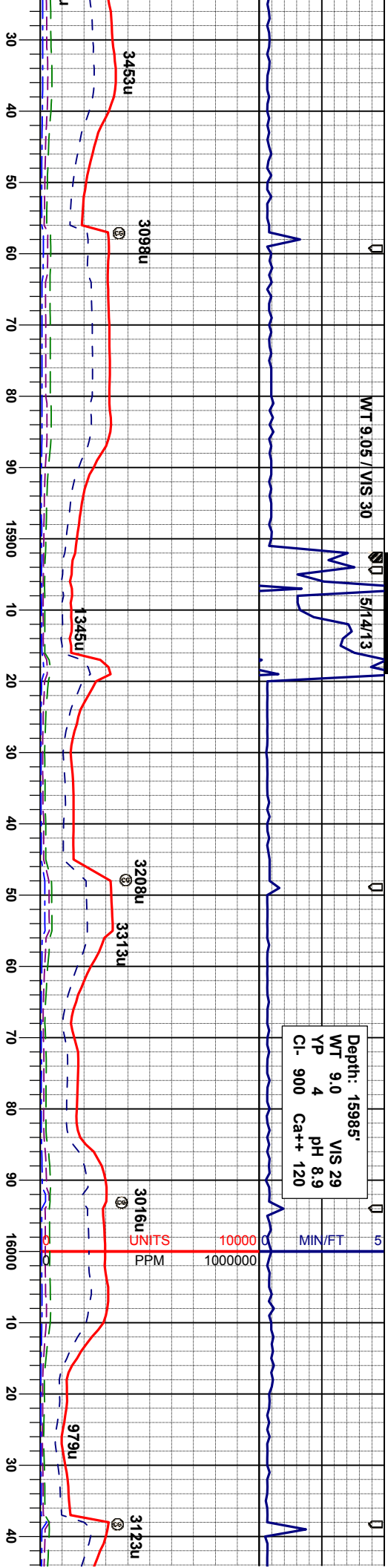
MRL: m- dkgy, modstf- firm, sbblky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, tr bent, occ fos frag
CHK: cm -ngy, occ dkgy mot-stri, mod
firm, sbblky-sbply, org/calc mtx, vcalc



WT 9.05 / VIS 30

5/14/13

Depth: 15985'
WT 9.0 VIS 29
YP 4 pH 8.9
Cl- 900 Ca++ 120



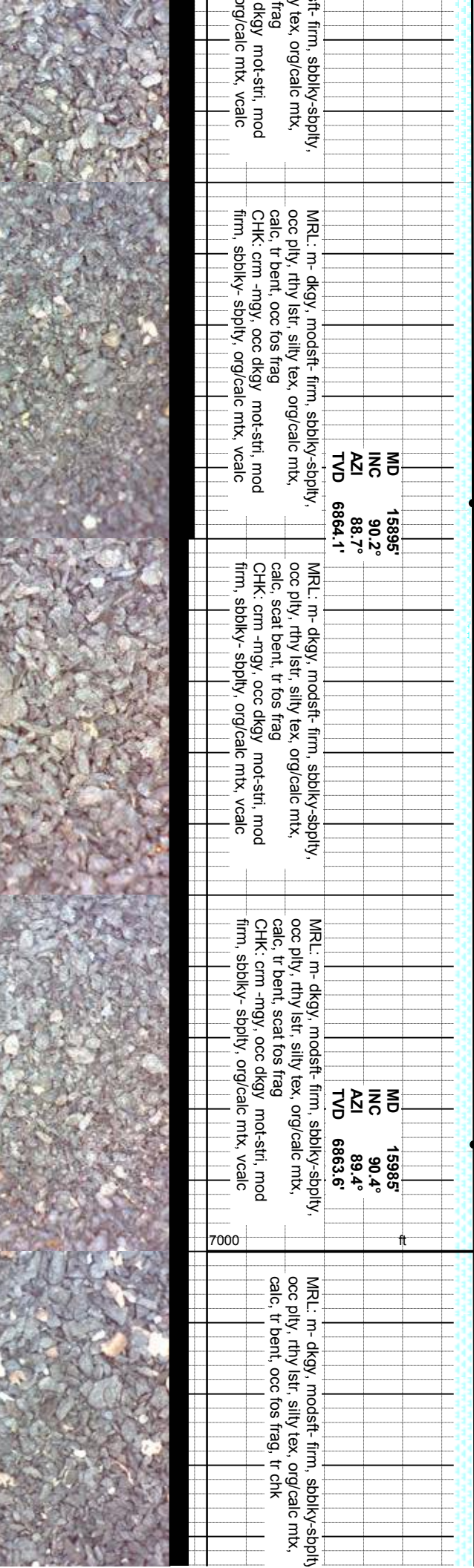
MD 15895'
INC 90.2°
AZI 88.7°
TVD 6864.1'

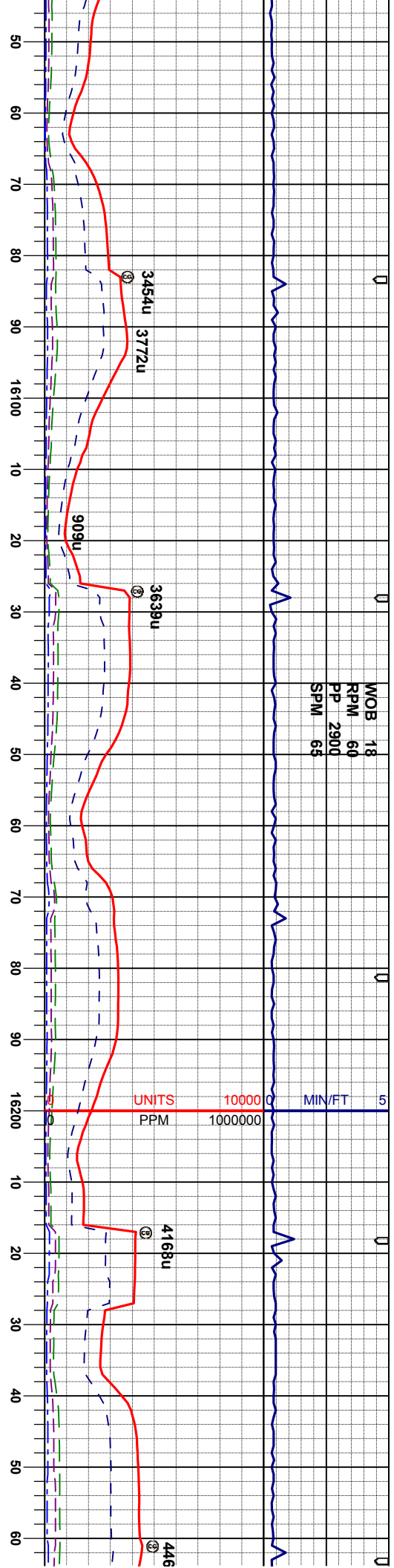
MRL: m-dkgy, modstf-firm, sbblky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, tr bent, occ fos frag
CHK: cm -mgy, occ dkgy mot-stri, mod
firm, sbblky-sbply, org/calc mtx, vcalc

MD 15985'
INC 90.4°
AZI 89.4°
TVD 6863.6'

MRL: m-dkgy, modstf-firm, sbblky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, tr bent, scat bent, tr fos frag
CHK: cm -mgy, occ dkgy mot-stri, mod
firm, sbblky-sbply, org/calc mtx, vcalc

MRL: m-dkgy, modstf-firm, sbblky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, tr bent, occ fos frag, tr chk





MD 16075'
INC 90.3°
AZI 89.1°
TVD 6863.1'

MRL: m-dkgy, modst-firm, sbblky-sbply,
occ ply, rthy lst, silty tex, org/calc mtx,
calc, tr bent, scat fos frag

CHK: lt-mgy, occ dkgy mot-stri, sft- mod
firm, sbblky-sbply, org/calc mtx, vcalc
MRL: m-dkgy, modst-firm, sbblky-sbply,
occ ply, rthy lst, silty tex, org/calc mtx,
calc, occ bent, occ fos frag

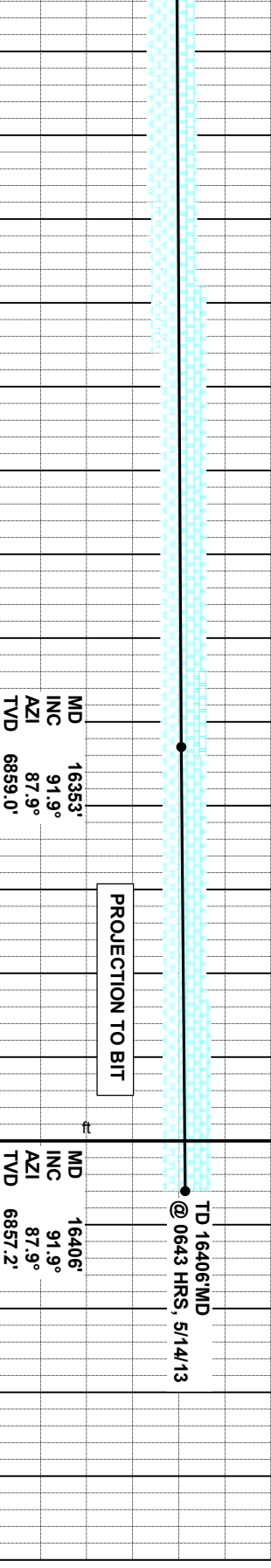
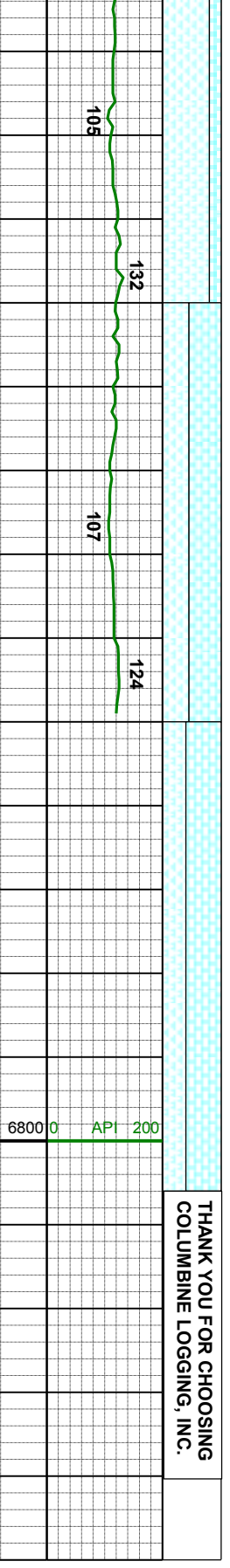
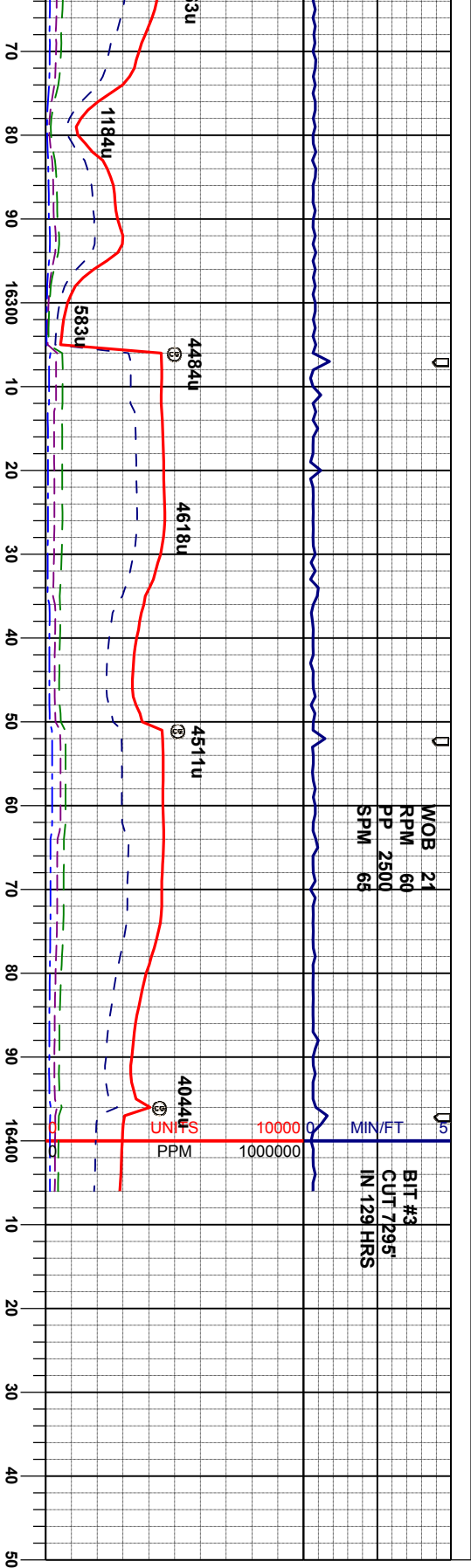
MD 16165'
INC 90.9°
AZI 88.6°
TVD 6862.1'

CHK: lt-mgy, occ dkgy mot-stri, sft- mod
firm, sbblky-sbply, org/calc mtx, vcalc
MRL: m-dkgy, modst-firm, sbblky-sbply,
occ ply, rthy lst, silty tex, org/calc mtx,
calc, occ bent, occ fos frag

MD 16254'
INC 90.5°
AZI 87.0°
TVD 6861.0'

MRL: m-dkgy, modst-firm, sbblky-sbply,
occ ply, rthy lst, silty tex, org/calc mtx,
calc, tr bent, occ fos frag
CHK: lt-mgy, occ dkgy mot-stri, sft- mod
firm, sbblky-sbply, org/calc mtx, vcalc





kg, modstf, firm, sbblky-sbply,
ny lstr, silty tex, org/calc mtx,
it, occ fos frag
gy, occ dkg, modstf, firm, sbblky-sbply,
-sbply, org/calc mtx, vcalc

CHK: lt-mgy, occ dkg, modstf, firm, sbblky-sbply, org/calc mtx, vcalc
MRL: m-dkg, modstf, firm, sbblky-sbply,
occ ply, rthy lstr, silty tex, org/calc mtx,
calc, tr bent, occ fos frag



THANK YOU FOR CHOOSING
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