



Scale: 5" / 100'
Measured Depth Log

Well Name Rohn State LD10-68-1HN

Location NENE SEC9 T9N R58W

State CO

County WELD

Country USA

Rig Number PRECISION 828

API Number 05-123-37626

AFE # 200219

Region DENVER-JULESBURG BASIN

Field WILDCAT

Spud Date 9/30/2014

Drilling Completed 10/7/2014

Surface Coordinates 935' FNL, 330' FEL

Lat/Long: 40.77059/-103.86116

Ground Elevation 4739'

K.B. Elevation 4755'

Logged Interval 5100'

To 9590'

Total Depth 9590'

Formation PIERRE (TEEPEE BUTTES, SHARON SPRINGS), NIOBRARA (SMOKY HILLS A & B LAYERS)

Type of Drilling Fluid LSND

Operator

Company NOBLE ENERGY INC.

Address 1625 Broadway
Denver, CO 80202

Geology

Name EVAN HOWELL, TERESA MALE

Company NOBLE ENERGY INC.

Address 1625 Broadway
Denver, CO 80202

Rock

CHALK

MARLSTONE

Engineering

BIT

CONNECTION (DOWN)

CONNECTION GAS

CASING

MINDEPTH MIN DEPTH

Other Services

Operator

Geologist

SARDI

Types

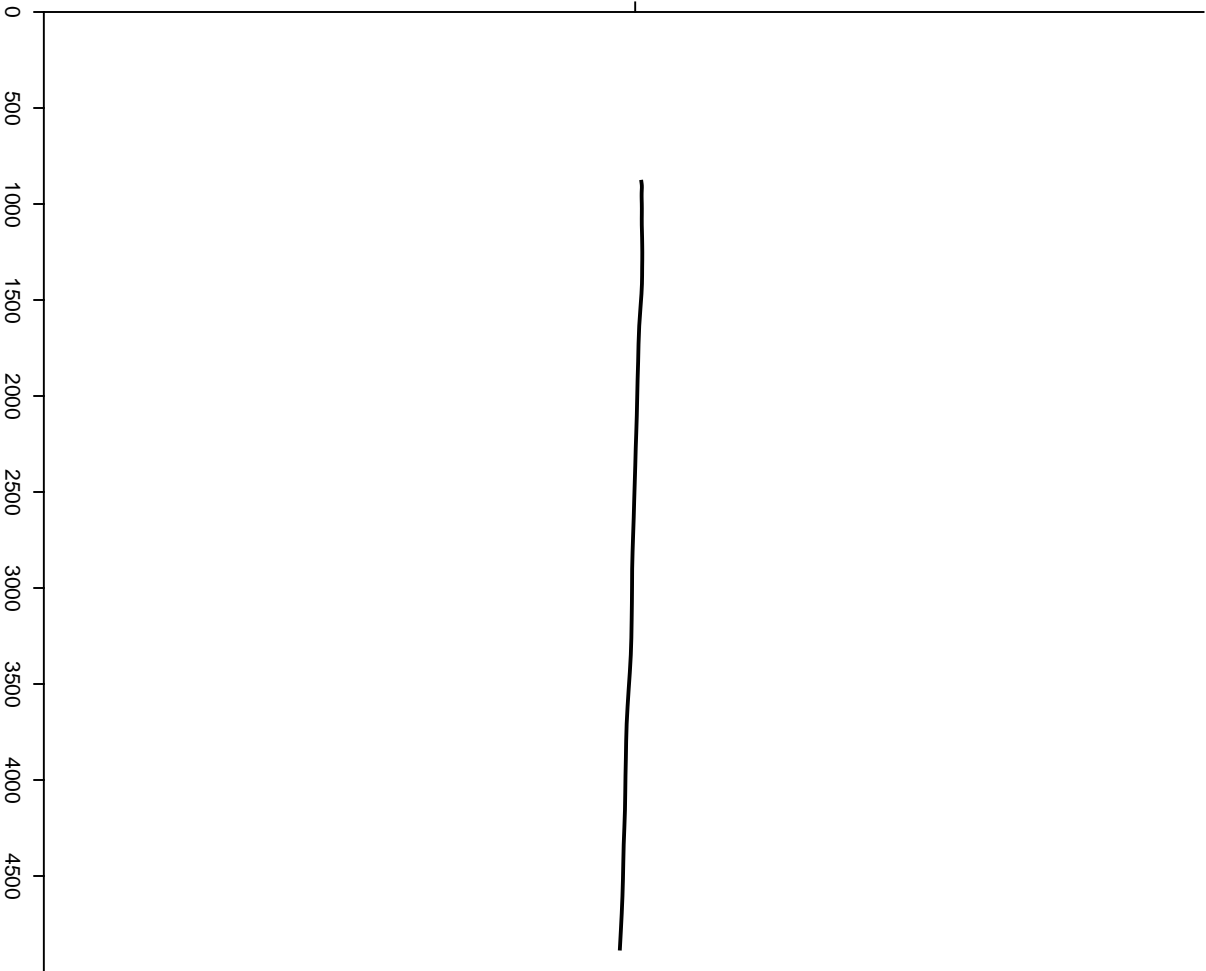
None
SILTY SHALE

Symbols

Survey Plan

Northing

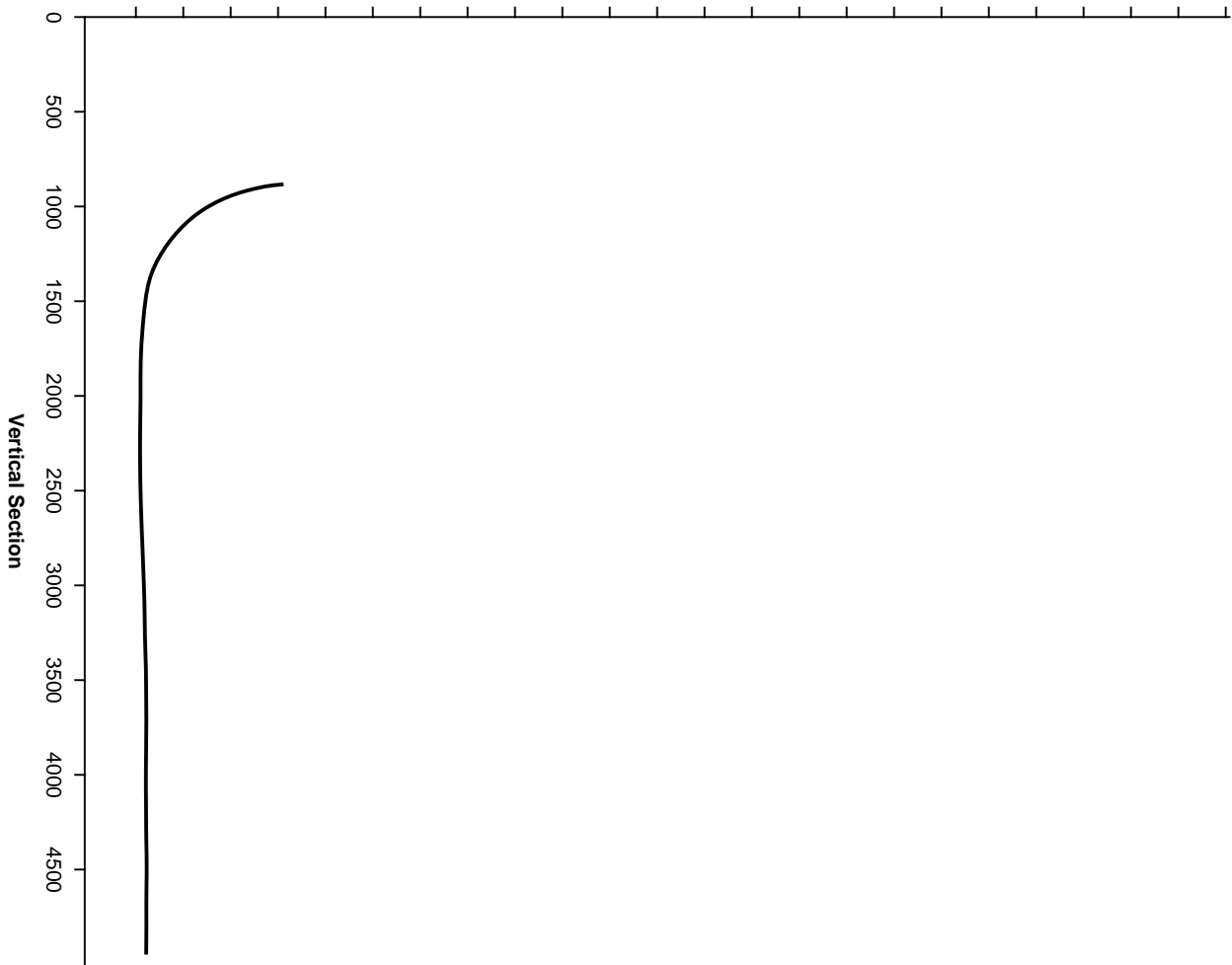
0

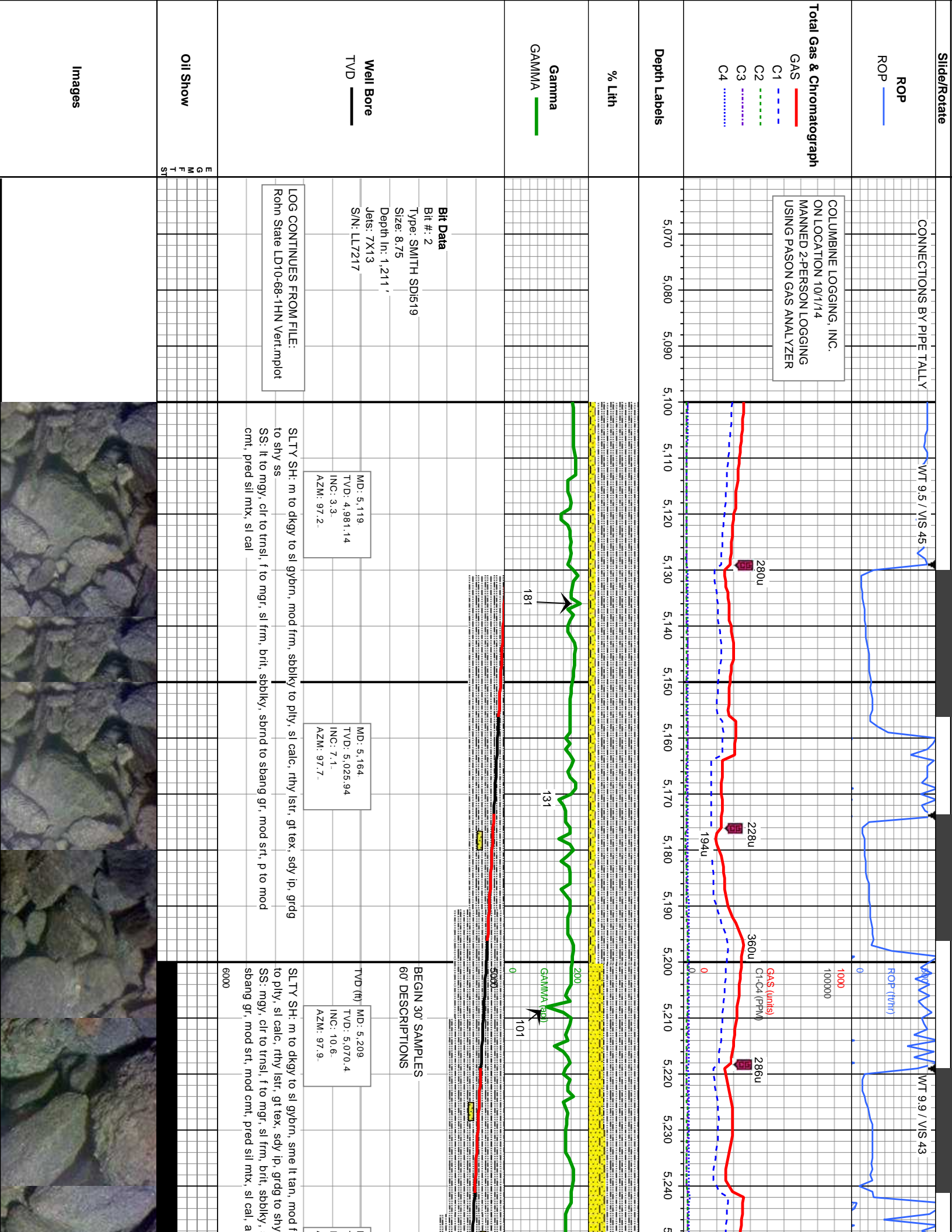


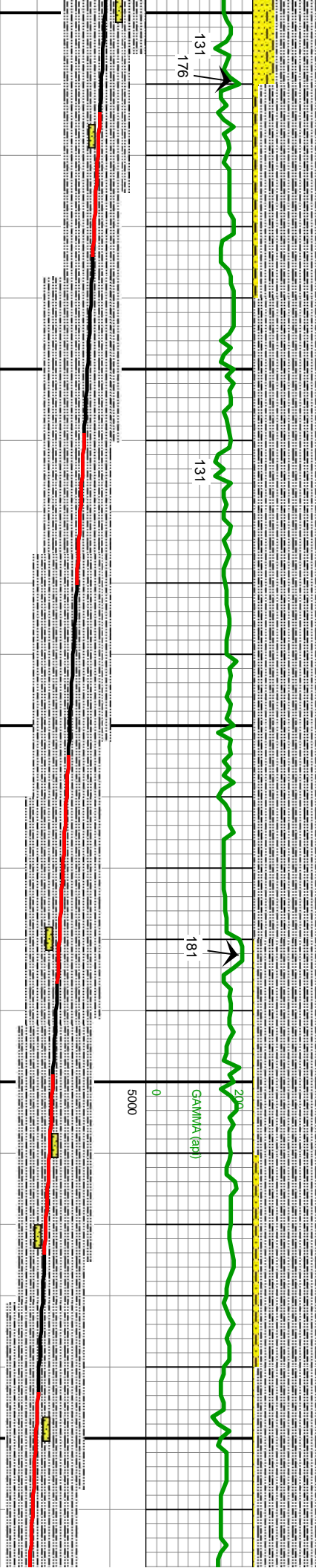
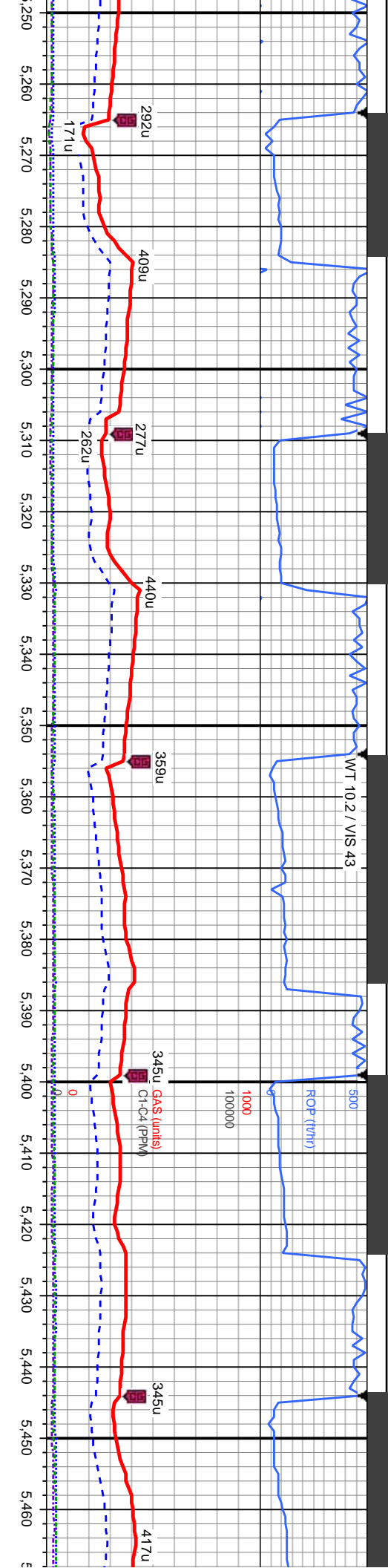
True Vertical Depth

0
250
500
750
1000
1250
1500
1750
2000
2250
2500
2750
3000
3250
3500
3750
4000
4250
4500
4750
5000
5250
5500
5750

Survey Elevation







MD: 5,254 TVD: 5,114.44 INC: 13.1 AZM: 94.1	MD: 5,299 TVD: 5,158.12 INC: 14.7 AZM: 87	MD: 5,344 TVD: 5,201.38 INC: 17.3 AZM: 87.4	MD: 5,389 TVD: 5,243.97 INC: 20.3 AZM: 88.4	MD: 5,434 TVD: 5,285.7 INC: 23.6 AZM: 90.5
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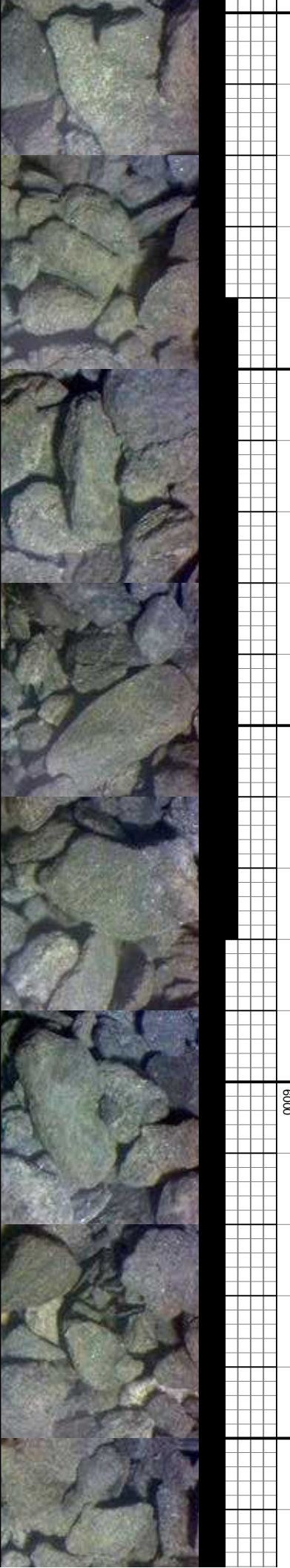
rm, sbbkly
ss
ssbnd to
bnt glau

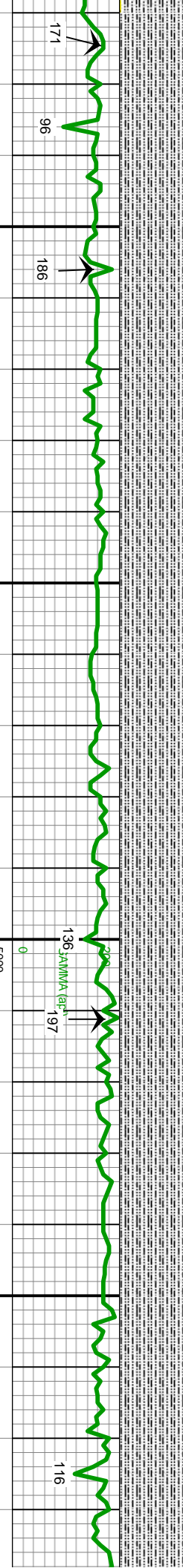
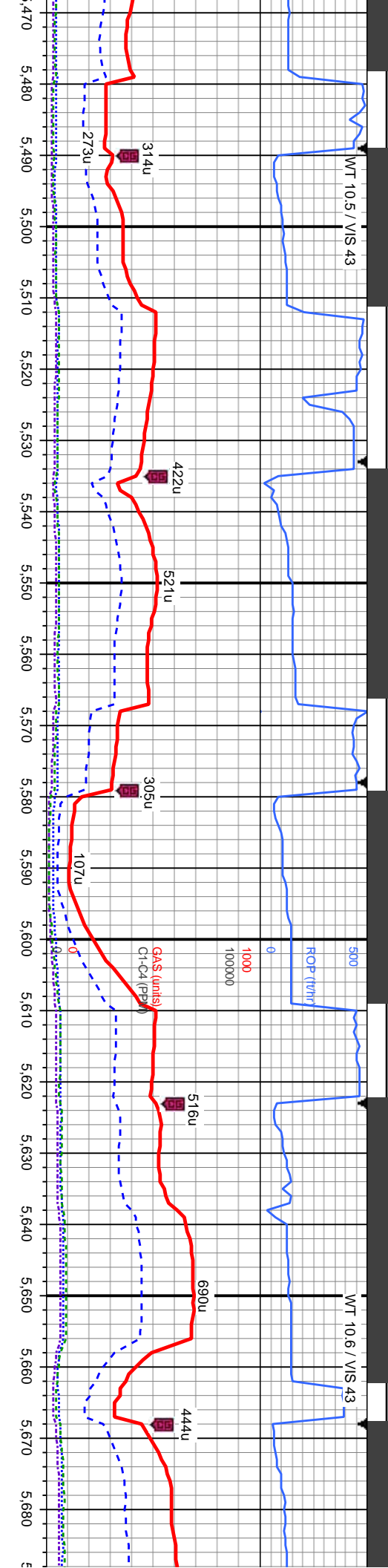
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sbbkly to plty, sl calc, rthy lstr, gt tex, sdy ip, grdg to shy
ss, occ lt gy m gr ss

SLTY SH: m to dkgy to sl gybrn, mod frm, sbbkly to plty, sl
calc, rthy lstr, gt tex, sdy ip, grdg to shy ss, tr lt gy m gr ss

SLTY SH: m to dkgy to sl gybrn, mod frm, sbbkly to sbply,
sme plty, sl calc, rthy lstr, gt tex, sdy ip, grdg to shy ss, tr
lt gy m gr ss, occ bent

SLTY SH: m to dkgy to sl gy
sme plty, sl calc, rthy lstr, gt
tr bent





MD: 5.478
TVD: 5.325.44
INC: 27.2
AZM: 91.6

MD: 5.523
TVD: 5.364.95
INC: 30
AZM: 91.2

MD: 5.568
TVD: 5.403.21
INC: 33.5
AZM: 90.2

MD: 5.613
TVD: 5.439.77
INC: 37.8
AZM: 89.4

MD: 5.658
TVD: 5.474.26
INC: 42.1
AZM: 89.3

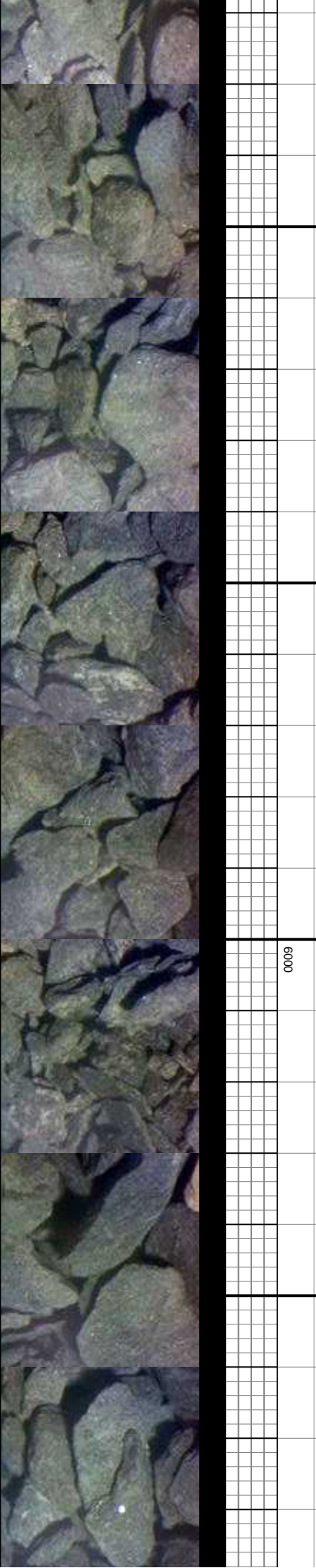
brn, mod frm, sbblky to sbply,
tex, sdy ip, grdg to shy ss, sl

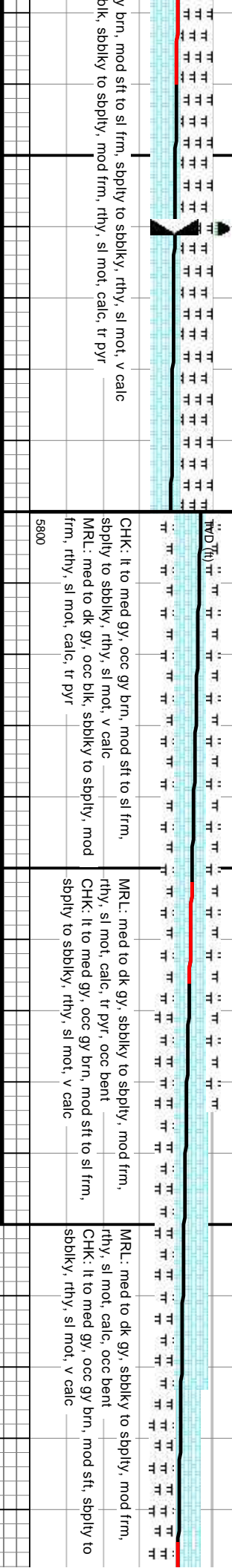
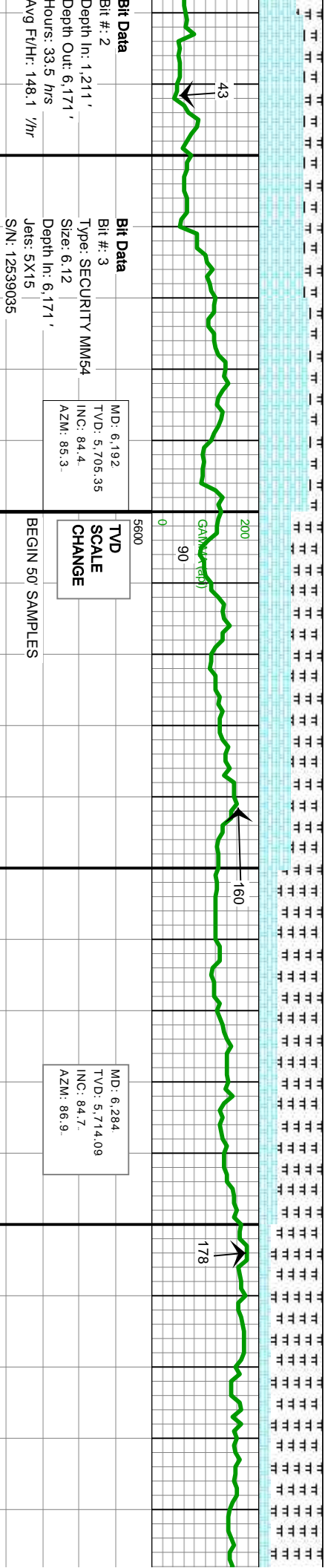
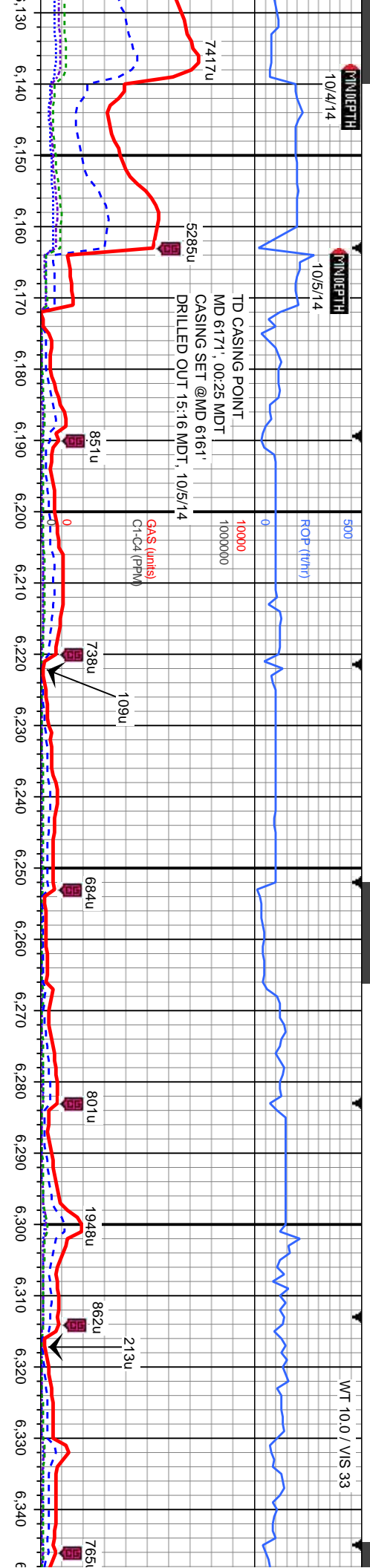
SLTY SH: m to dkgy to sl gybrn, mod frm, sbblky to sbply,
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tr bent

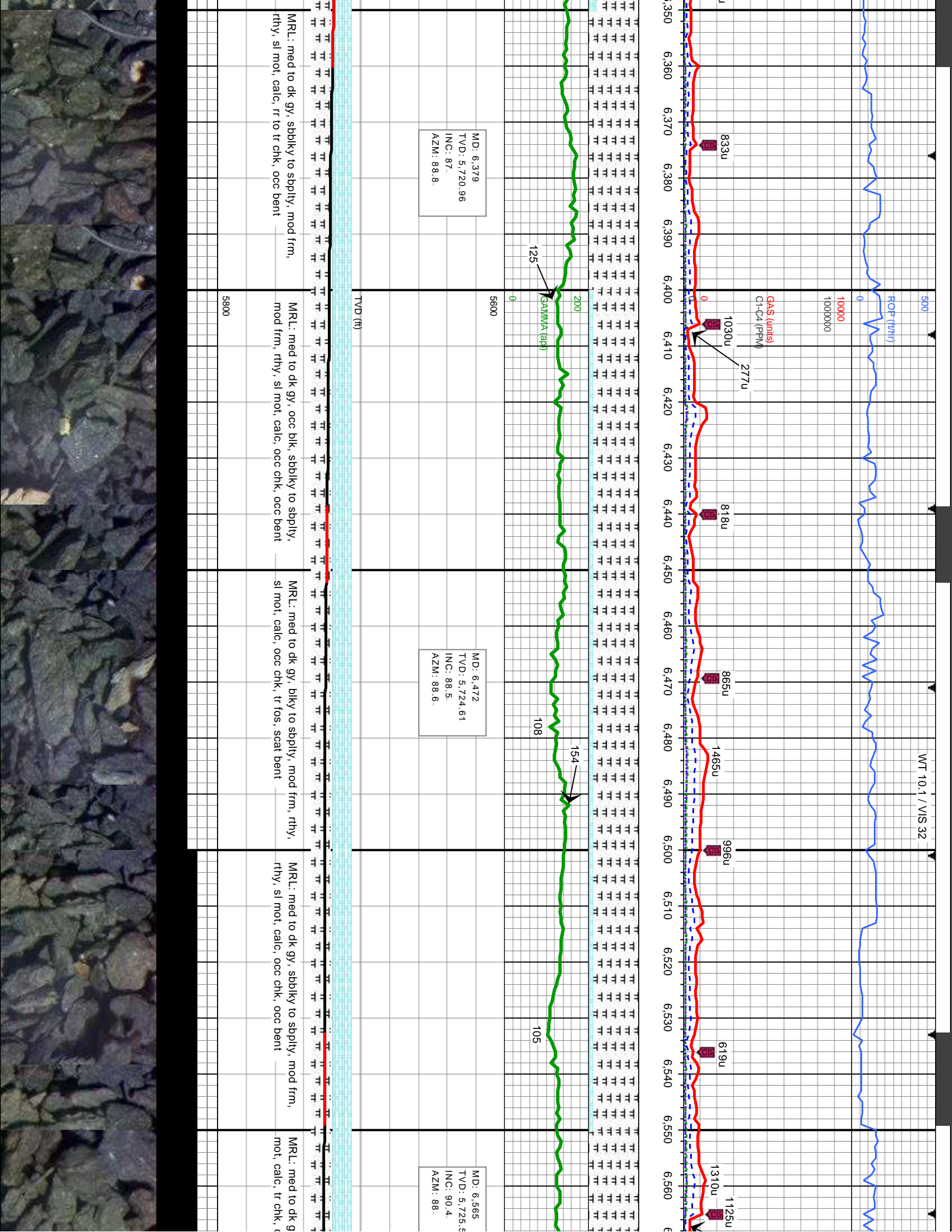
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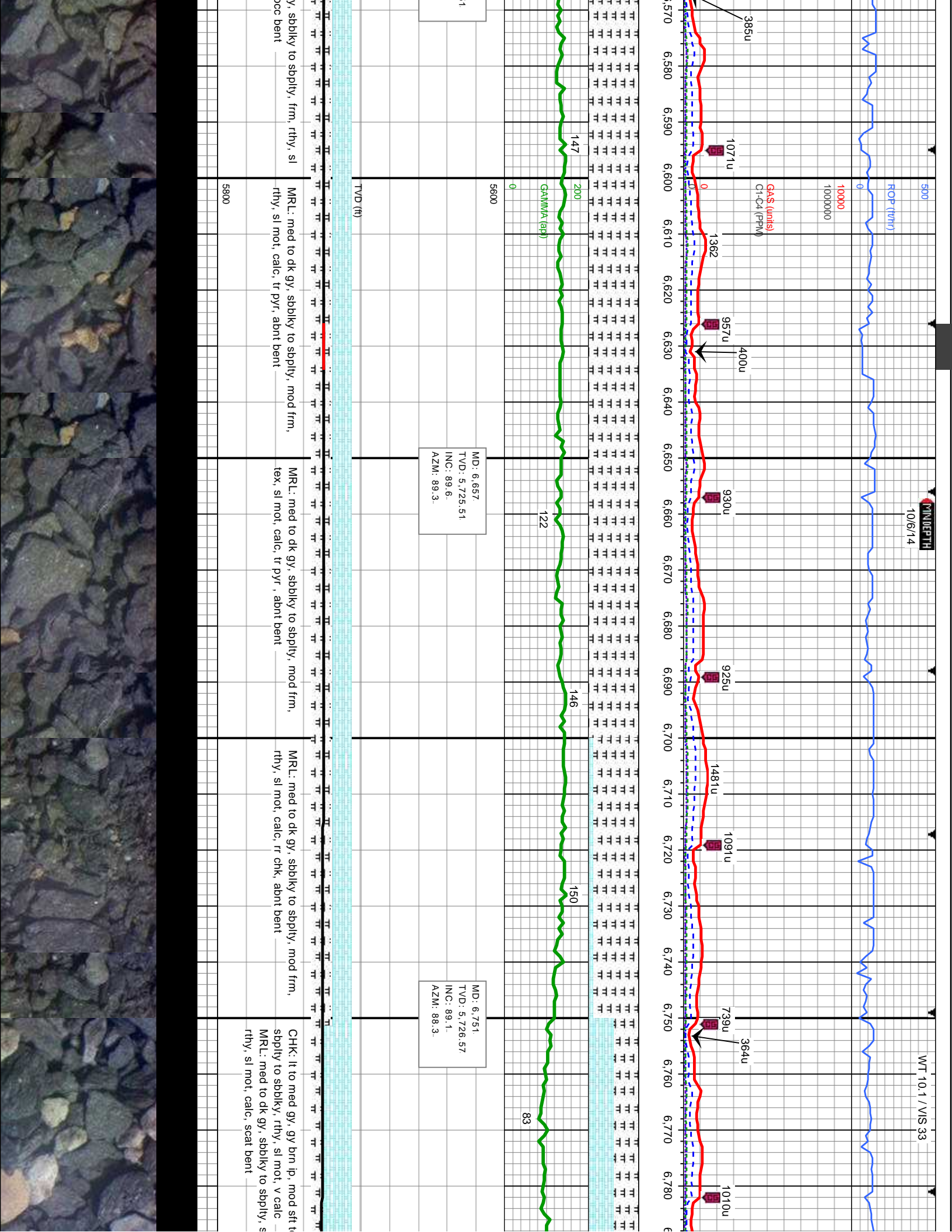
SLTY SH: m to dkgy to sl gybrn, mod frm, sbblky to sbply,
sme ply, sl calc, rthy lstr, gt tex, sdy ip, grdg to shy ss, sl
tr bent

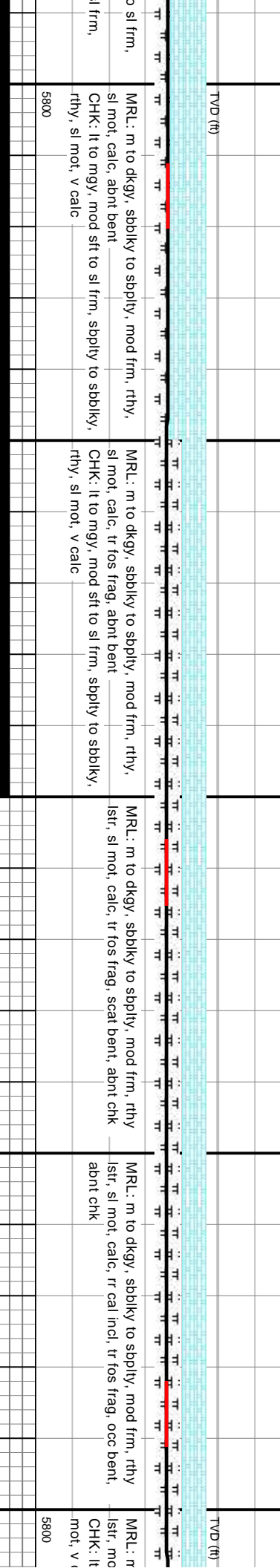
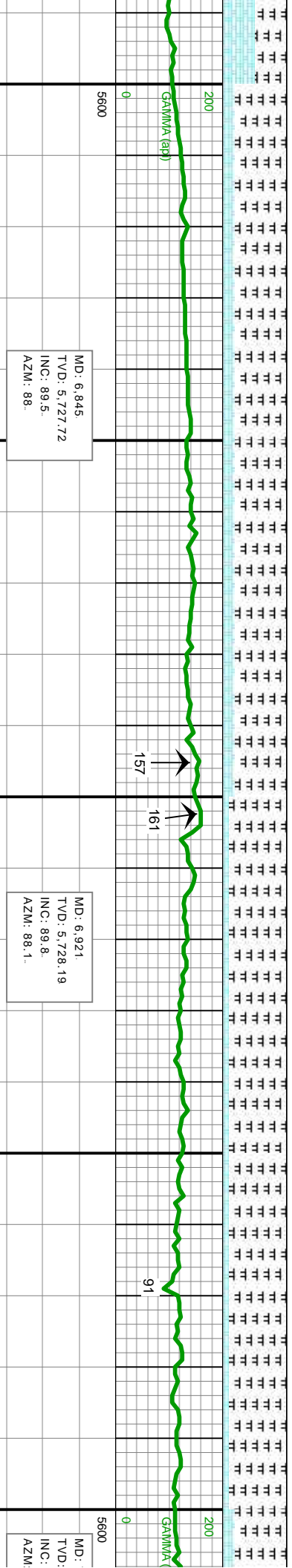
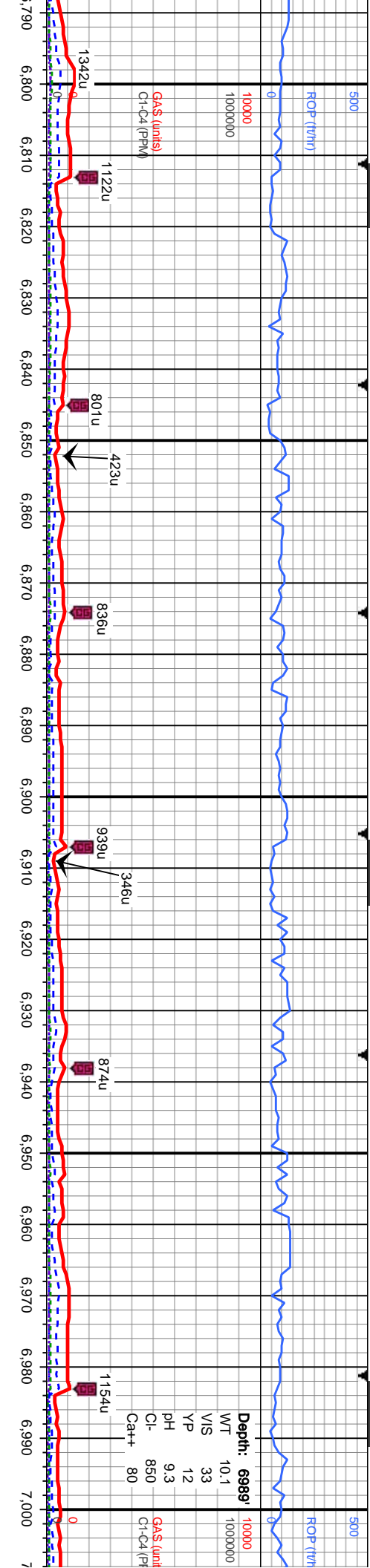
SLTY S

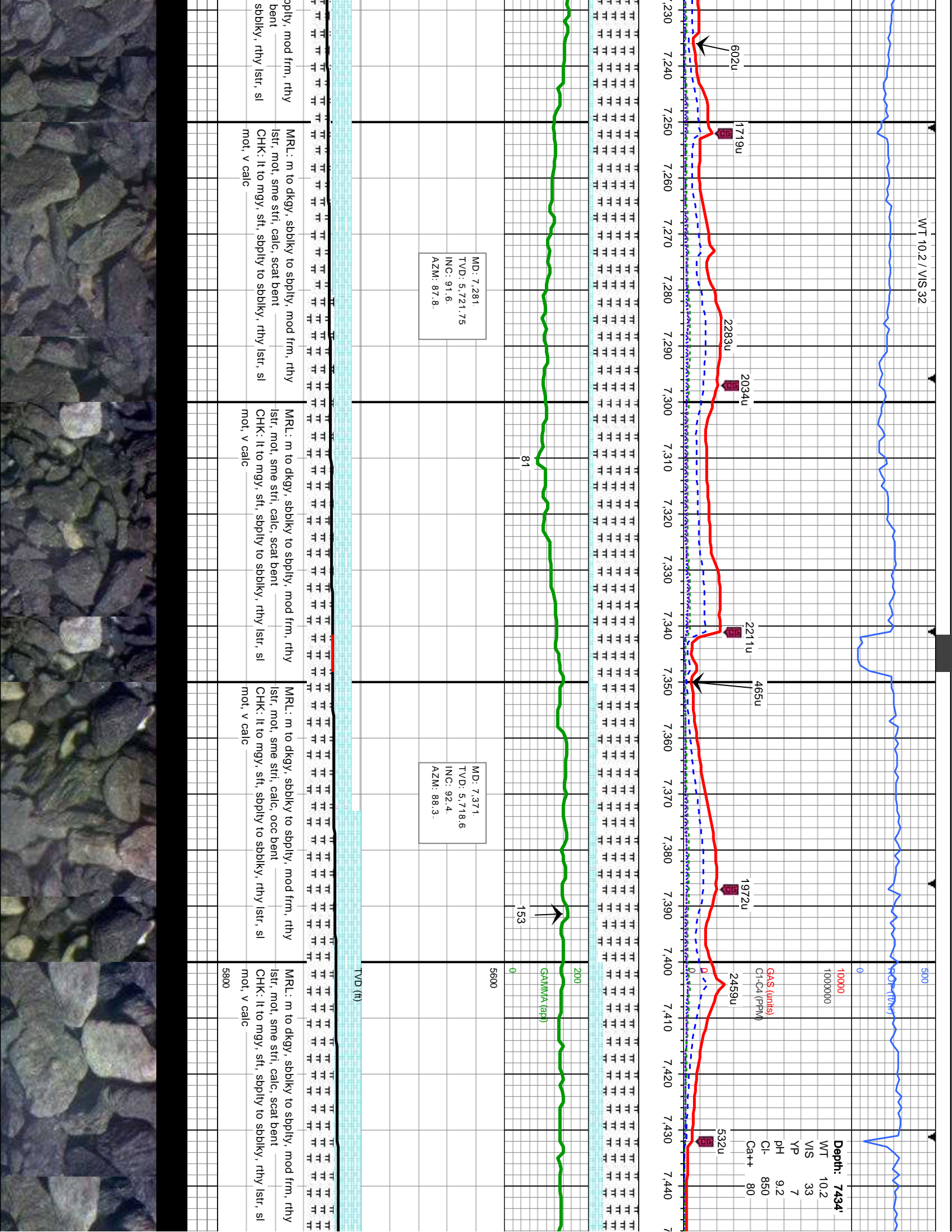


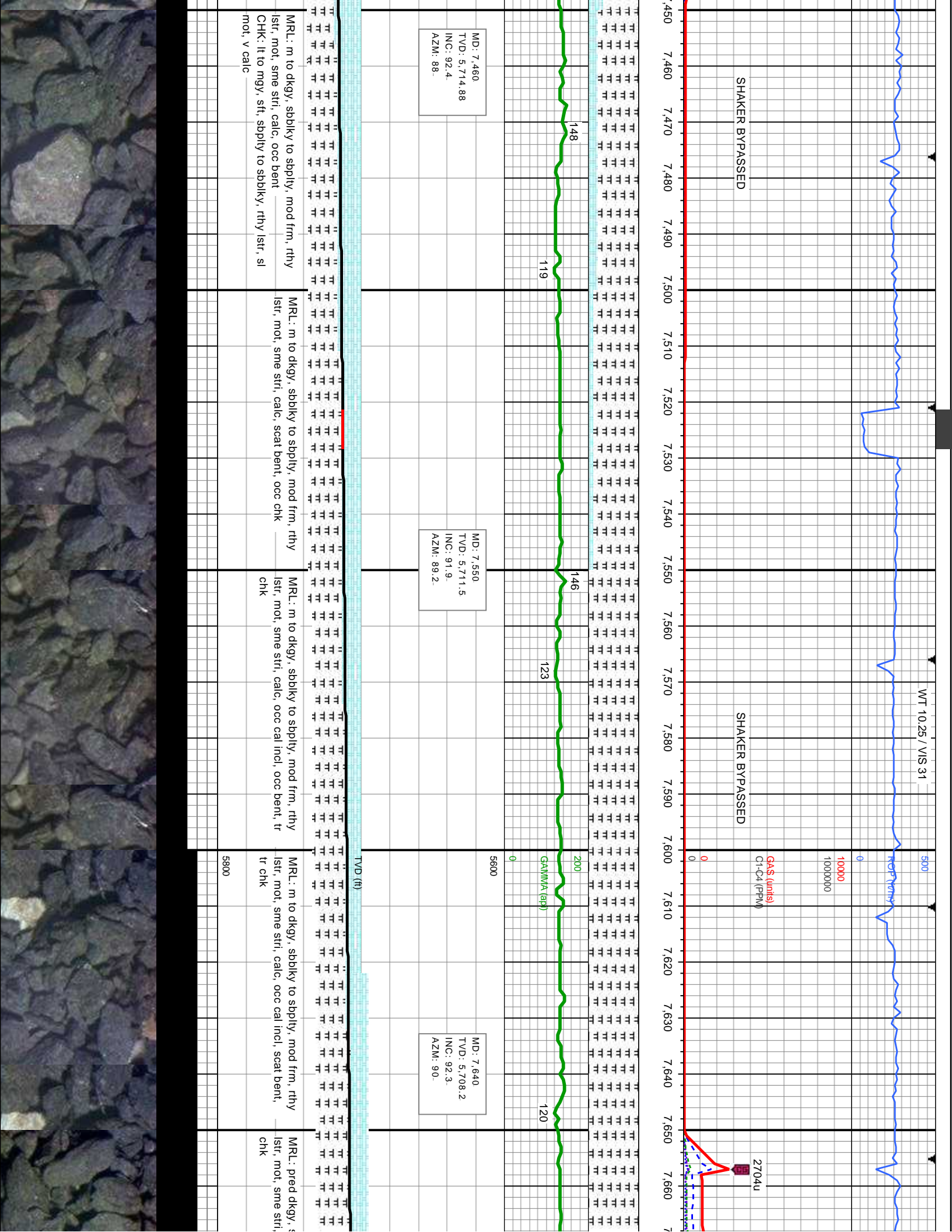


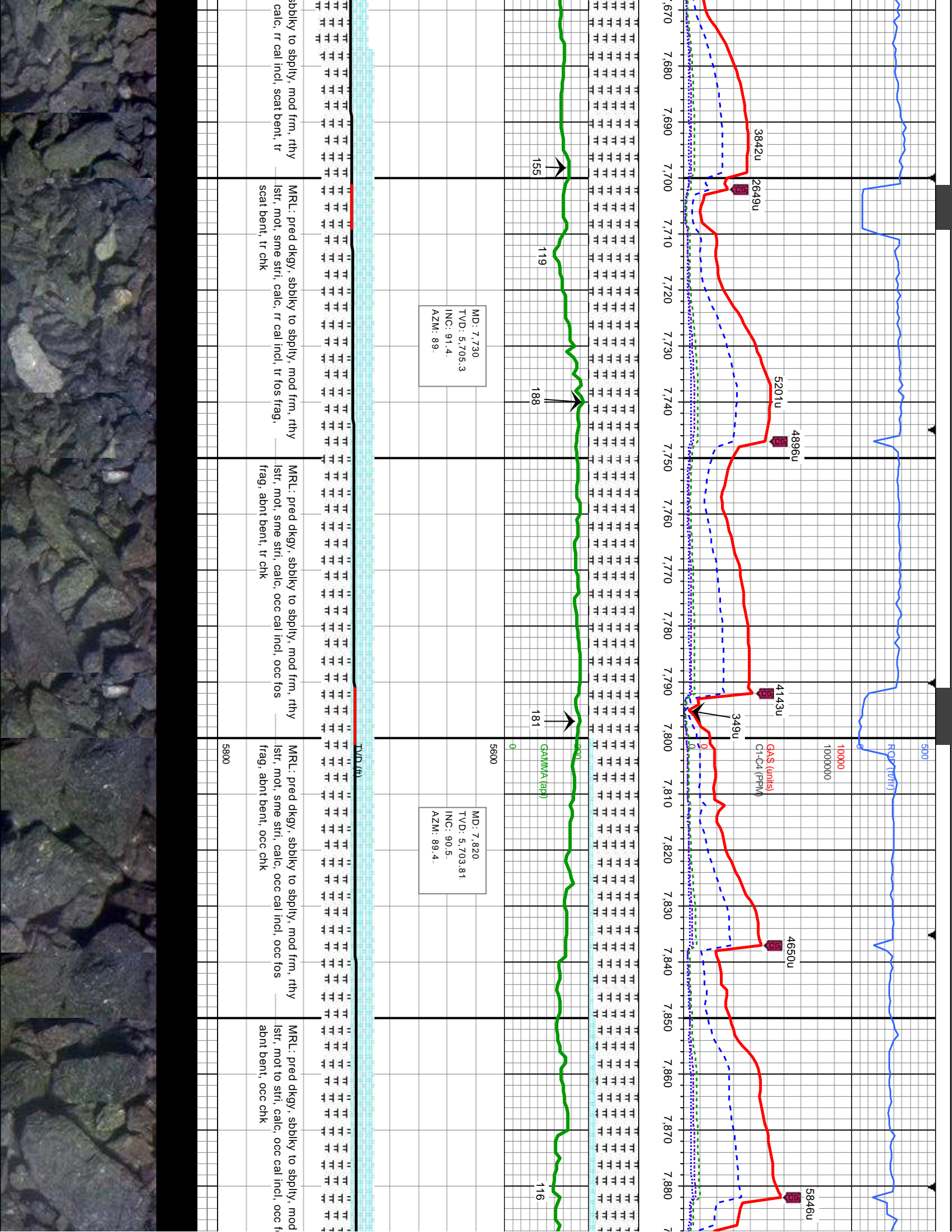


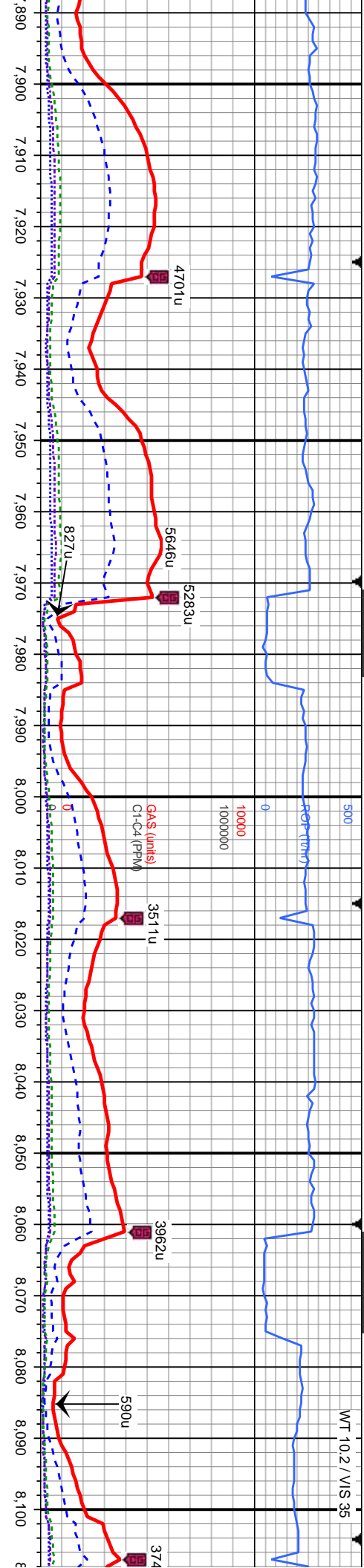












MD: 7.910
TVD: 5.702.47
INC: 91.2
AZM: 88.6

MD: 7.999
TVD: 5.699.83
INC: 92.2
AZM: 87.7

MD: 8.089
TVD: 5.697.24
INC: 91.1
AZM: 86

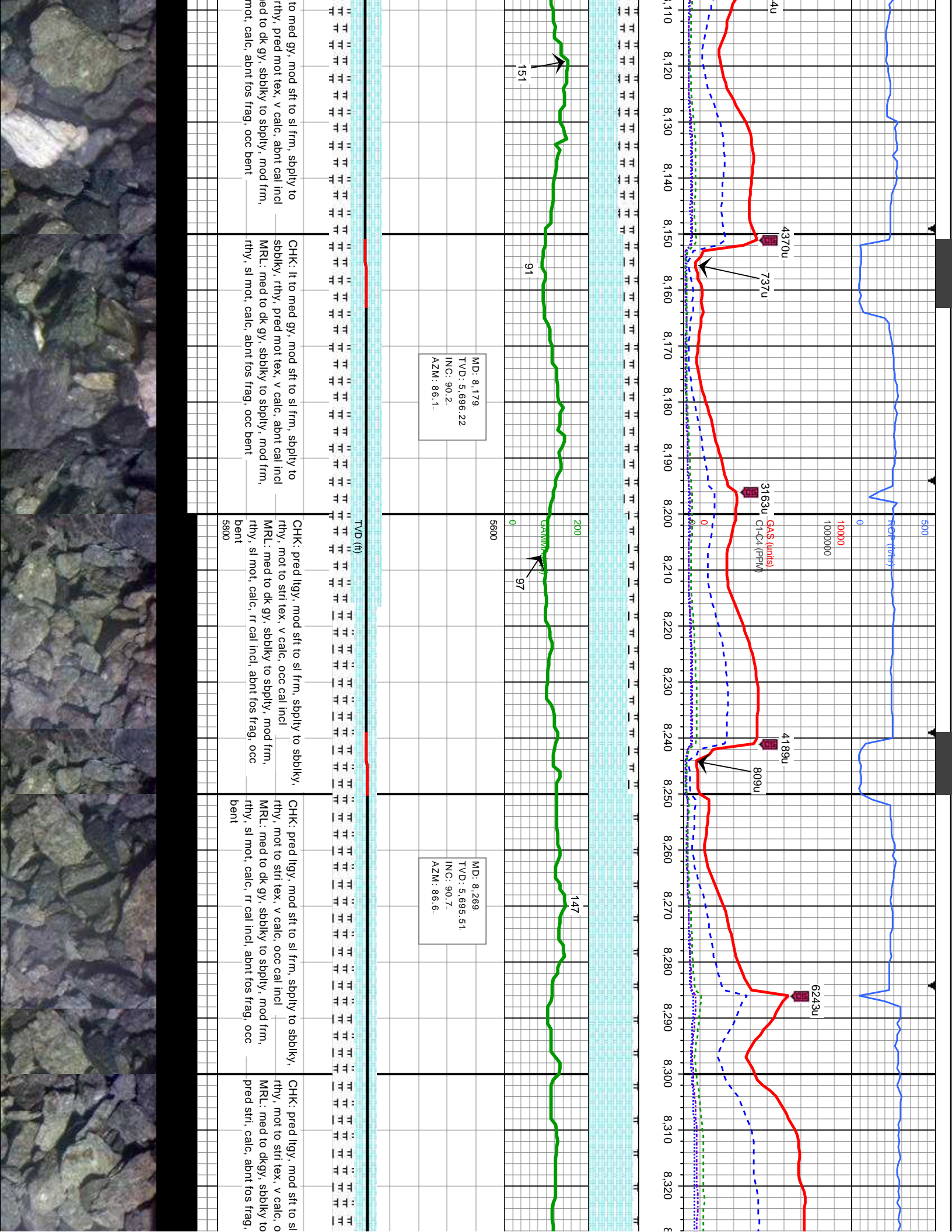
CHK: It to med gy, mod sft to sl frm, sbply to
sbply, rthy, pred mot tex, v calc, abnt cal incl
MRL: med to dk gy, sbply to sbply, mod frm,
rthy, sl mot, calc, occ fos frag, scat bent

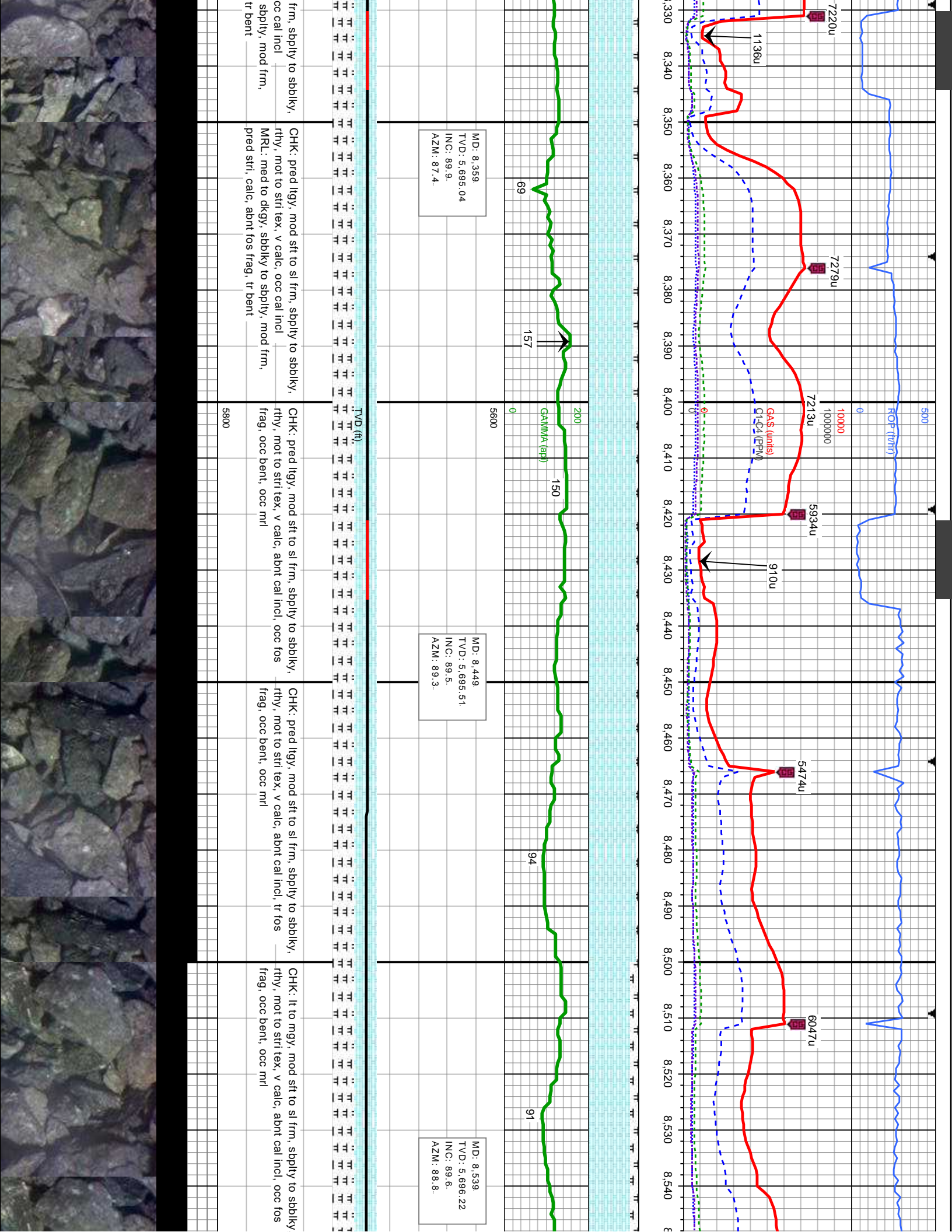
CHK: It to med gy, mod sft to sl frm, sbply to
sbply, rthy, pred mot tex, v calc, abnt cal incl
MRL: med to dk gy, sbply to sbply, mod frm,
rthy, sl mot, calc, occ fos frag, scat bent

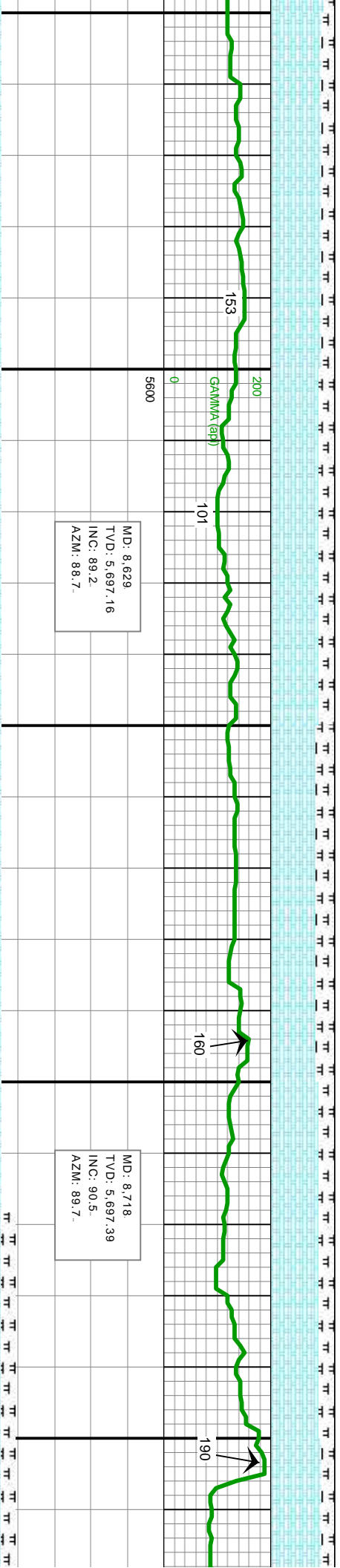
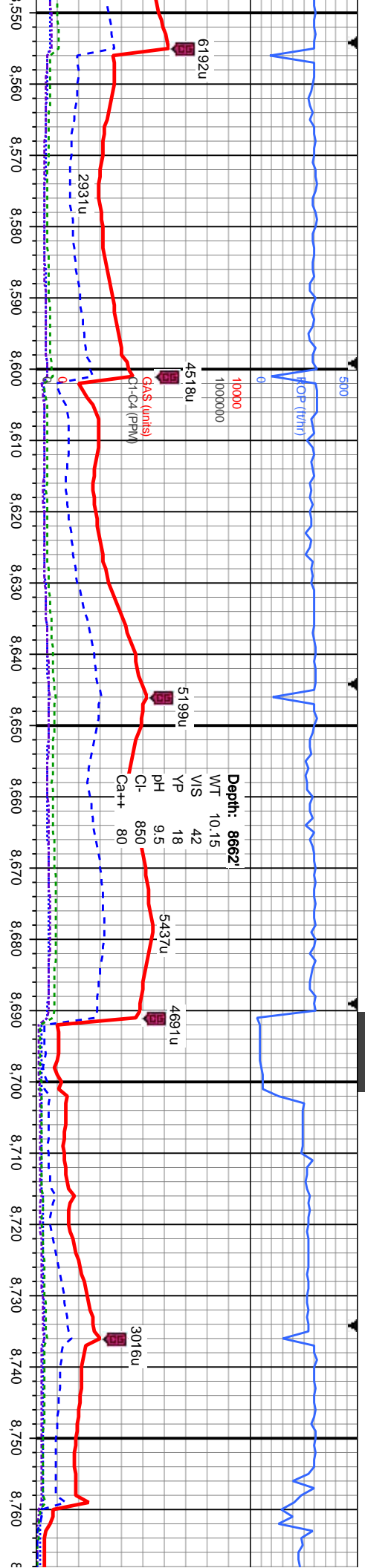
MRL: med to dk gy, sbply to sbply, mod frm,
rthy, mot, gt, calc, occ cal incl, occ fos frag, scat
bent
CHK: It to med gy, mod sft to sl frm, sbply to
sbply, rthy, pred mot tex, v calc, occ cal incl

MRL: med to dk gy, sbply to sbply, mod frm,
rthy, mot to str, gt, calc, occ cal incl, occ fos
frag, occ bent
CHK: It to med gy, mod sft to sl frm, sbply to
sbply, rthy, pred mot tex, v calc, occ cal incl

CHK: It
sbply,
MRL: r
rthy, sl

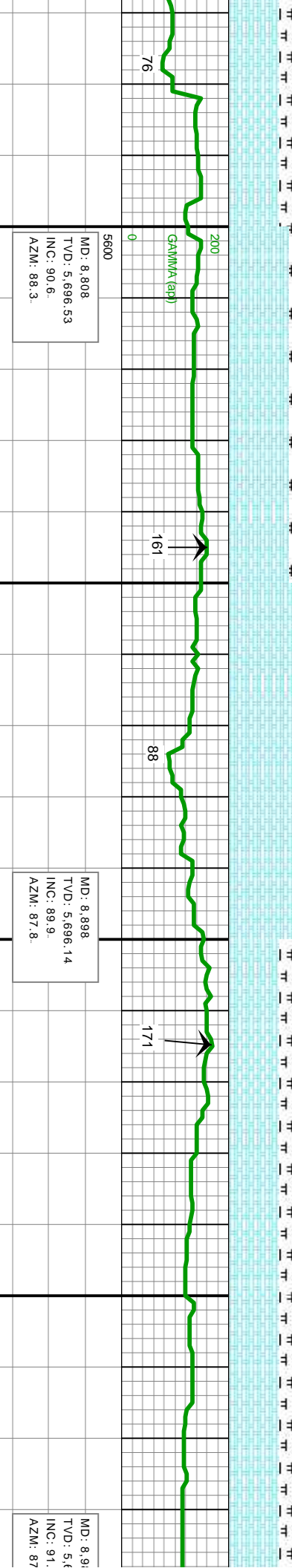
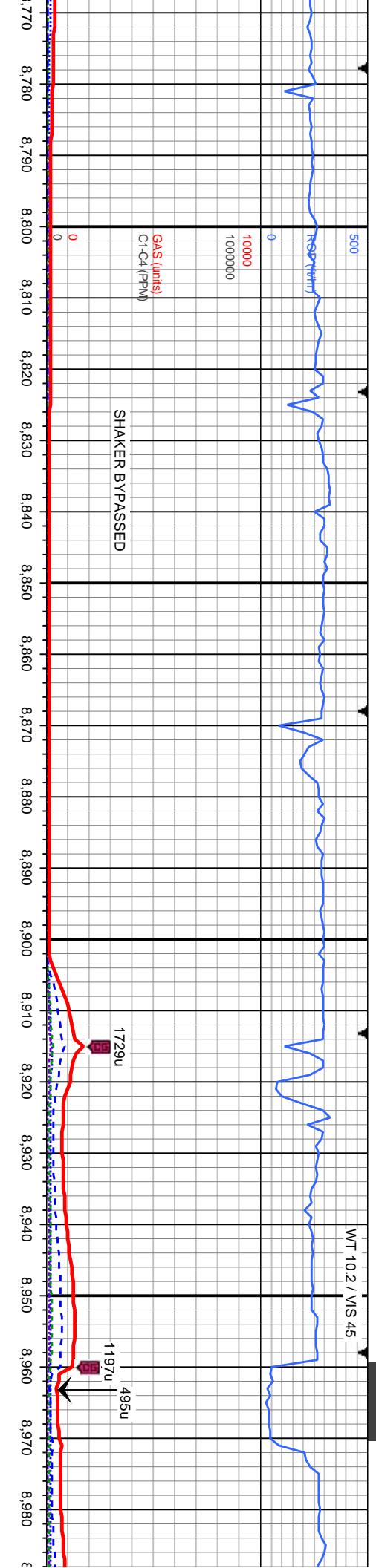






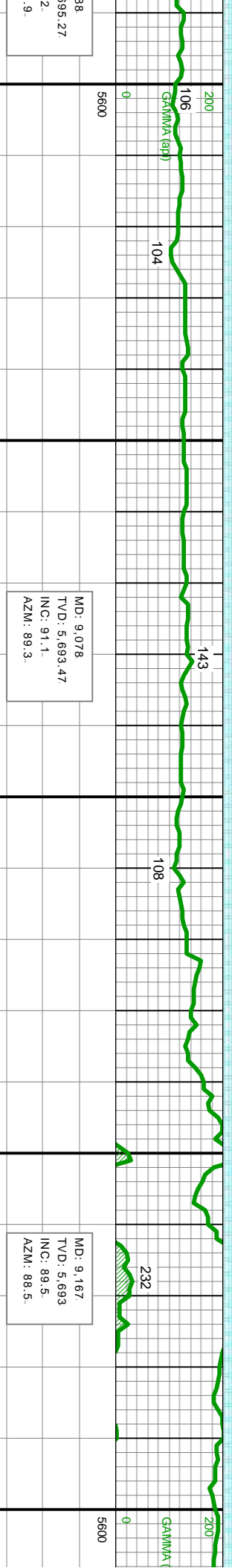
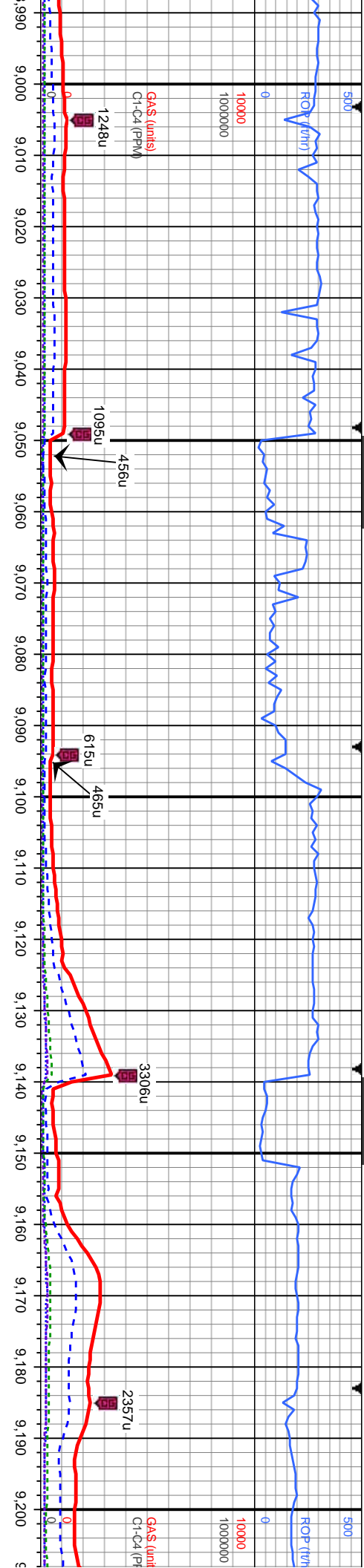
CHK: It to med gy, mod sft to sl frm, sbply to sbblky, rthy, pred mot tex, v calc, abnt cal incl	CHK: It to med gy, mod sft to sl frm, sbply to sbblky, rthy, pred mot tex, v calc, abnt cal incl	CHK: It to med gy, mod sft to sl frm, sbply to sbblky, rthy, pred mot tex, v calc, abnt cal incl	CHK: It to med gy, mod sft to sl frm, sbply to sbblky, rthy, pred mot tex, v calc, abnt cal incl
MRL: med to dkgy, sbblky to plty, mod frm, stri to stri tex, calc, occ cal incl, abnt fos frag, occ bent	MRL: med to dkgy, sbblky to plty, mod frm, stri to stri tex, calc, occ cal incl, abnt fos frag, occ bent	MRL: med to dkgy, sbblky to plty, mod frm, stri to stri tex, calc, occ cal incl, abnt fos frag, scat bent	MRL: med to dkgy, sbblky to plty, mod frm, stri to stri tex, calc, rr cal incl, abnt fos frag, scat bent
5800			





TVD (ft)	CHK: It to med gy, mod sft to sl frm, sbply to sbblky, rthy, pred mot tex, v calc, abnt cal incl, abnt fos frag, scat bent, occ mrl	CHK: It to med gy, mod sft to sl frm, sbply to sbblky, rthy, pred mot tex, v calc, abnt cal incl, abnt fos frag, scat bent, occ mrl	CHK: It to med gy, mod sft to sl frm, sbply to sbblky, rthy, pred mot tex, v calc, abnt cal incl, abnt fos frag, scat bent, occ mrl	CHK: It to med gy, mod sft to sl frm, sbply to sbblky, rthy, pred mot tex, v calc, abnt cal incl, abnt fos frag, scat bent, occ mrl
5800				





MD: 9.078
TVD: 5.693.47
INC: 91.1
AZM: 89.3

MD: 9.167
TVD: 5.693
INC: 89.5
AZM: 88.5

TVD (ft)	1248u	1095u	456u	615u	465u	3306u	2357u
9000							
9010							
9020							
9030							
9040							
9050							
9060							
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9180							
9190							
9200							



