



Scale: 5" / 100'  
Measured Depth Log

**Well Name** State Antelope T-28-21XRLNB

**Location** SWSW Section 28, T5N, R62W

**State** Colorado

**Country** USA

**API Number** 05-123-36879

**Region** DJ Basin

**Spud Date** 6/15/2013

**Surface Coordinates** 631' FSL x 1295' FEL

**Bottom Hole Coordinates** 664' FNL x 1319' FEL

**County** Weld

**Rig Number** Cade 22

**Field** Wattenberg

**Drilling Completed** 6/26/2013

**Ground Elevation** 4627'

**K.B. Elevation** 4644'

**Logged Interval** 6000' **To** 15670'

**Total Depth** 15670'

**Formation** Niobrara B Chalk

**Type of Drilling Fluid** FW LSND

**Company** Bonanza Creek

**Address** 410 17th Street  
Denver, CO 80202

**Name** Paul McKay

**Company** Bonanza Creek

**Address** 410 17th Street  
Denver, CO 80202

Columbine Logging, Inc.

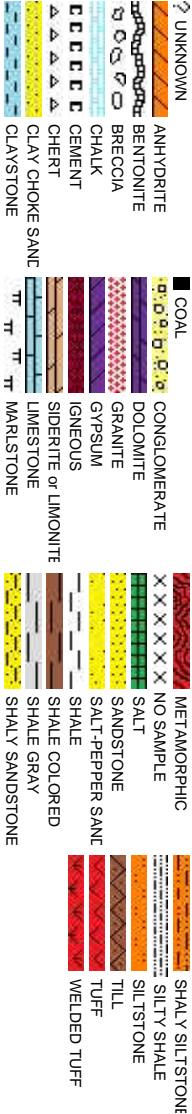
Well-site Geologists

Operator

Energy Inc.

Suite 1500  
202

Rock Types

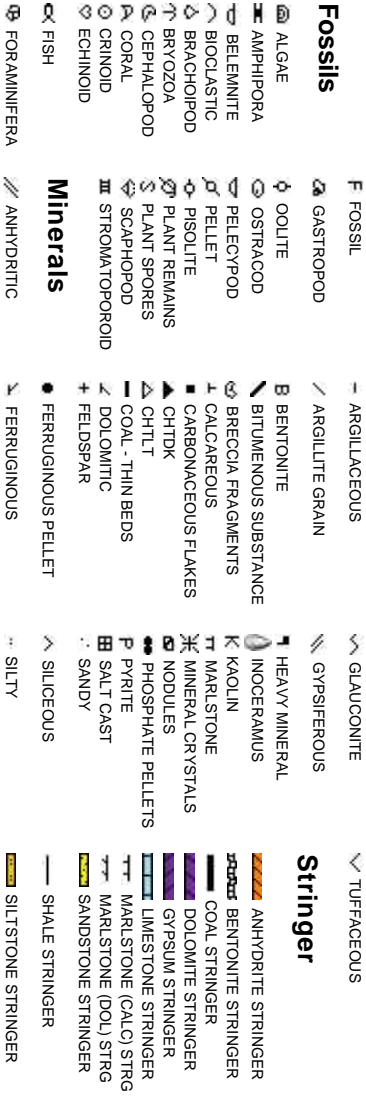


Geologist

Energy Inc.

, Suite 1500  
202

Accessories









Other

2385 S. Lipan St.  
Denver, CO 80223

Joey Luce  
Eli Smith









Other Symbols

Oil Show




-  MOLDIC
-  ORGANIC
-  DEAD
-  EVEN
-  PINPOINT
-  VUGGY

-  QUESTIONABLE
-  SPOTTED STAINING














Porosity

-  EARTHY
-  FENESTRAL
-  FRACTURE
-  INTERCRYSTALLINE
-  INTEROOLITIC
-  CORE - LOST
-  CORE - RECOVERED
-  DST INTERVAL

Engineering

-  BIT
-  CONNECTION (LEFT)
-  CONNECTION (RIGHT)
-  CONNECTION GAS
-  NORMAL FAULT
-  OIL SHOW
-  OVERTURNED STRATA
-  REVERSE FAULT
-  SIDE WALL CORE (LEFT)
-  SIDE WALL CORE (RIGHT)
-  SLIDE
-  SURVEY
-  TRIP GAS

-  FAULT
-  FORMATION TOP
-  GAS SHOW
-  MINDEPTH MN DEPTH

-  WIRELINE TESTED - LEFT
-  WIRELINE TESTED - RT
-  ANGULAR
-  ROUNDED
-  SUBANG
-  SUBRND
-  FINELYXLN
-  GRAINSTONE
-  LITHOGRAPHIC
-  MICROXLN
-  MUDSTONE
-  PACKSTONE
-  WACKESTONE

Rounding

Textures

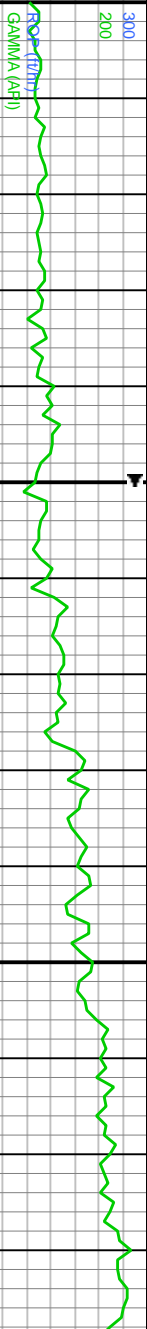
-  BOUNDSTONE
-  CHALKY
-  CRYPTOXLN
-  MODERATE
-  POOR
-  WELL

Sorting

Slide/Rotate

ROP  
ROF  
GAMMA

ROP Limit  
0 to 300 ft/hr  
ROF (ft/hr)  
Gamma Limit  
0 to 200 API



Total Gas & Chromatograph

GAS  
C1  
C2  
C3  
C4

GAS (units)  
C1-C4 (PPM)  
Gas Limit  
0 to 6500 units

GAS (units)  
C1-C4 (PPM)

Issues with Pason  
No WITS

Issues with Pason  
No WITS

Logger Top Sharon Spr  
MD 6130' / TVD 6093'

Depth Labels



% Lith



Bit #3  
Type: VM513S  
Size: 8.75"  
Depth in: 5961' MD  
Jets: 7 x 14  
S/N: 4005605

30' Sample Interval

5700

MD: 6,004 '  
TVD: 5,987.74 '  
Azimuth: 28.12 °  
Inclination: 26.98 °  
VS: 48.11 '

MD: 6,051 '  
TVD: 6,028.65 '  
Azimuth: 20.85 °  
Inclination: 32.03 °  
VS: 69.16 '

MD: 6,098 '  
TVD: 6,067.82 '  
Azimuth: 10.93 °  
Inclination: 35.15 °  
VS: 94.09 '

Well Bore  
TVD

TVD (ft)

TVD (ft)

Columbine Logging, Inc.  
Rigged up June 17, 2013  
Bloodhound unit #0603  
Drilling began 12:32 MST  
on June 18, 2013

85-90% SLTY SH: lt-med gy, gy brn, pily-blky,  
sft-fm, fri-brt, rthy-grtly istr, sb wxy, silv-aren,  
grdg slst 15-10% SHY SS: wh, lt gy, cl sup, v-f  
gr, blk, sl frm-hd, brt, g strg, grdg-ss

100-100% SLTY SH: lt-med gy, gy brn, bnnd  
blk ip, pily-blky, sft-fm, fri-brt, rthy-grtly istr, sb  
wxy, silv-aren, grdg sh, tr pyr, tr ss grns

100-100% SLTY  
brn, bnnd blk ip,  
rthy-grtly istr,  
ss grns

Oil Show

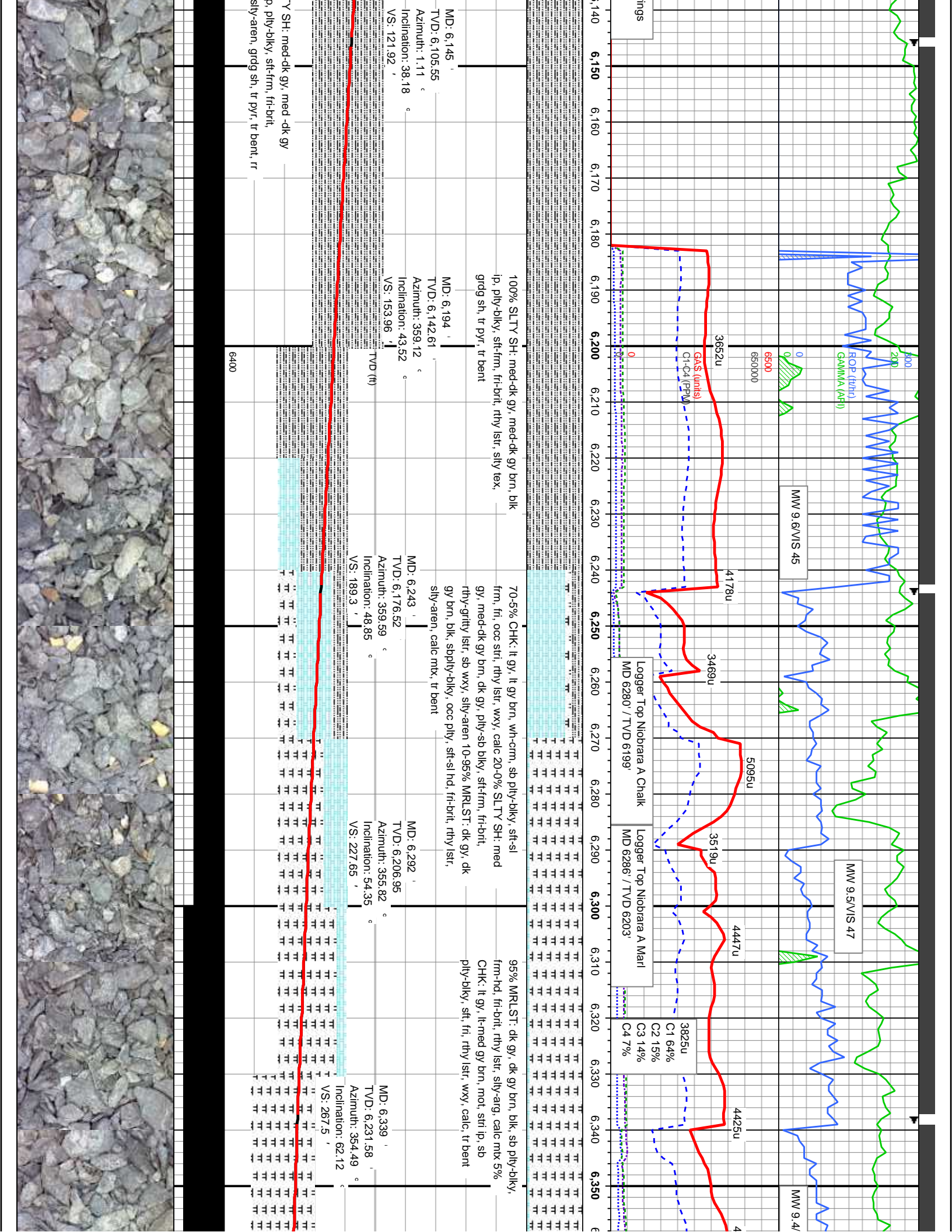
SL  
TR  
F  
M  
G



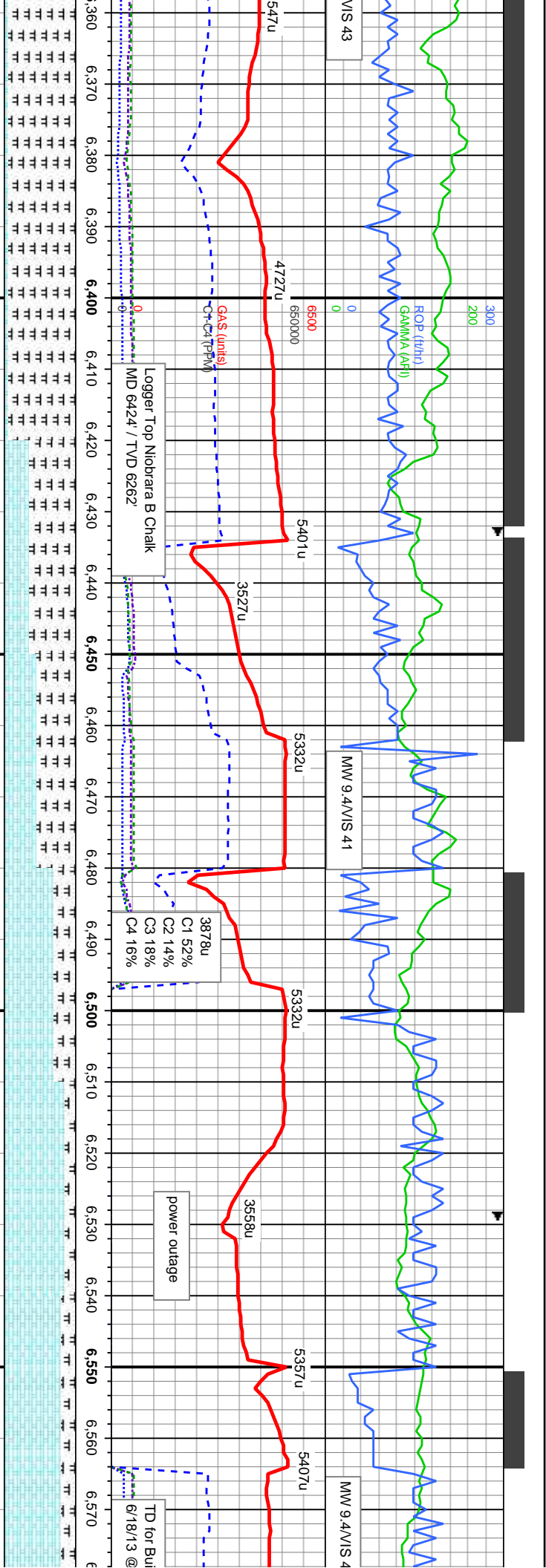
Images











95% MRLST: dk gy, dk gy brn, blk, sb ply-bkly, ooc ply, sl frm-hd, fri-brit, rthy lst, silty-arg, calc mix 5% CHK: lt gy, lt-med gy brn, wh-crm ip, mot, stri ip, sb ply-bkly, sft, fri, rthy lst, wxy, calc, tr bent, tr fos frags

65-55% MRLST: dk gy, dk gy brn, blk, sb ply-bkly, frm-hd, fri-brit, rthy lst, silty-arg, calc mix 35-45% CHK: lt-med gy, lt-med gy brn, wh-crm ip, mot, stri ip, sb ply-bkly, sft, fri, rthy lst, wxy, calc, rr fos frags

70-85% CHK: lt-med gy, lt-med gy brn, wh-crm ip, mot, stri ip, sb ply-bkly, sft, fri, rthy lst, wxy, calc 30-15% MRLST: dk gy, dk gy brn, blk, sb ply-bkly, frm-hd, fri-brit, rthy lst, silty-arg, calc mix, rr fos frags

80% CHK: lt-med gy, lt-med gy brn, wh-crm ip, mot, stri, sb ply-bkly, sft-frm, fri-brit, rthy lst, wxy, calc 20% MRLST: dk gy, dk gy brn, blk, sb ply-bkly, frm-hd, fri-brit, rthy lst, silty-arg, calc mix, rr fos frags

MD: 6.387 TVD: 6.251.14 Azimuth: 353.83 Inclination: 69.74 VS: 311.08	MD: 6.433 TVD: 6.264.19 Azimuth: 353.58 Inclination: 77.29 VS: 354.91	MD: 6.480 TVD: 6.272.34 Azimuth: 353.39 Inclination: 82.72 VS: 400.89	MD: 6.545 TVD: 6.278.57 Azimuth: 353.11 Inclination: 86.28 VS: 465.15
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ROF (w/r)  
GAMMA (AE)

MMW 9.0/VIS 45

MMW 9.0/VIS 40

5684u  
7000  
700000

New Limit  
0 to 7000 units

GAS (units)  
C1 17PPM

Id  
21:49 MST  
6/20/13 @ 06:56 MST  
Drilling Resumed

5650u

5800u

3305u

5669u

5669u

5719u

C1 58%

C2 14%

C3 15%

C4 13%

5700 80% CHK: lt-med gy, lt-med gy brn,  
wh-crm, mot, stri, sb pily-blky, sft-frn, fri-brt,  
rthy lst, wxy ip, calc 20% MRLST: med-dk  
gy, dk gy brn, blk ip, sb pily-blky, frm-hd,  
fri-brt, rthy lst, silty-arg, calc mx, rr fos  
frags, dissm pyr, rr bent

85% CHK: lt-med gy, lt-med gy brn,  
wh-crm, mot, stri, sb pily-blky, sft-frn, fri-brt,  
rthy lst, wxy ip, calc 15% MRLST: med-dk  
gy, dk gy brn, blk ip, sb pily-blky, frm-hd,  
fri-brt, rthy lst, silty-arg, calc mx, rr fos  
frags

85% CHK: lt-med gy, lt-med gy brn,  
wh-crm, mot, stri, sb pily-blky, sft-frn, fri-brt,  
rthy lst, wxy ip, calc 15% MRLST: med-dk  
gy, dk gy brn, blk ip, sb pily-blky, frm-hd,  
fri-brt, rthy lst, silty-arg, calc mx, rr fos  
frags

95% CHK: lt-med gy, lt-med gy brn,  
wh-crm, mot, stri, sb pily-blky, sft-frn, fri-brt,  
rthy lst, wxy, calc 5% MRLST: med-dk gy,  
dk gy brn, blk ip, sb pily-blky, frm-hd, fri-brt,  
rthy lst, silty-arg, calc mx

Bit #4  
Type: VM513S  
Size: 6.125"  
Depth in: 6592' MD  
Jets: 5 x 20  
S/N: 4005722

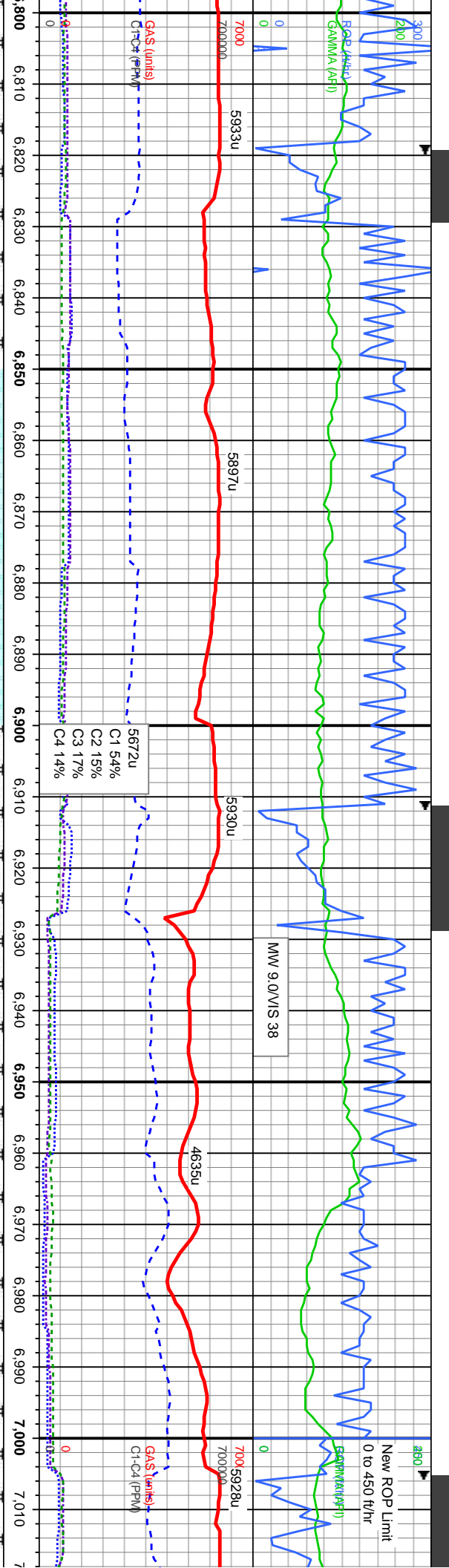
TVD (ft)

MD: 6,667  
TVD: 6,283.42  
Azimuth: 352.92  
Inclination: 89.16  
VS: 586.18

MD: 6,760  
TVD: 6,283.96  
Azimuth: 355.21  
Inclination: 90.18  
VS: 678.7

6400

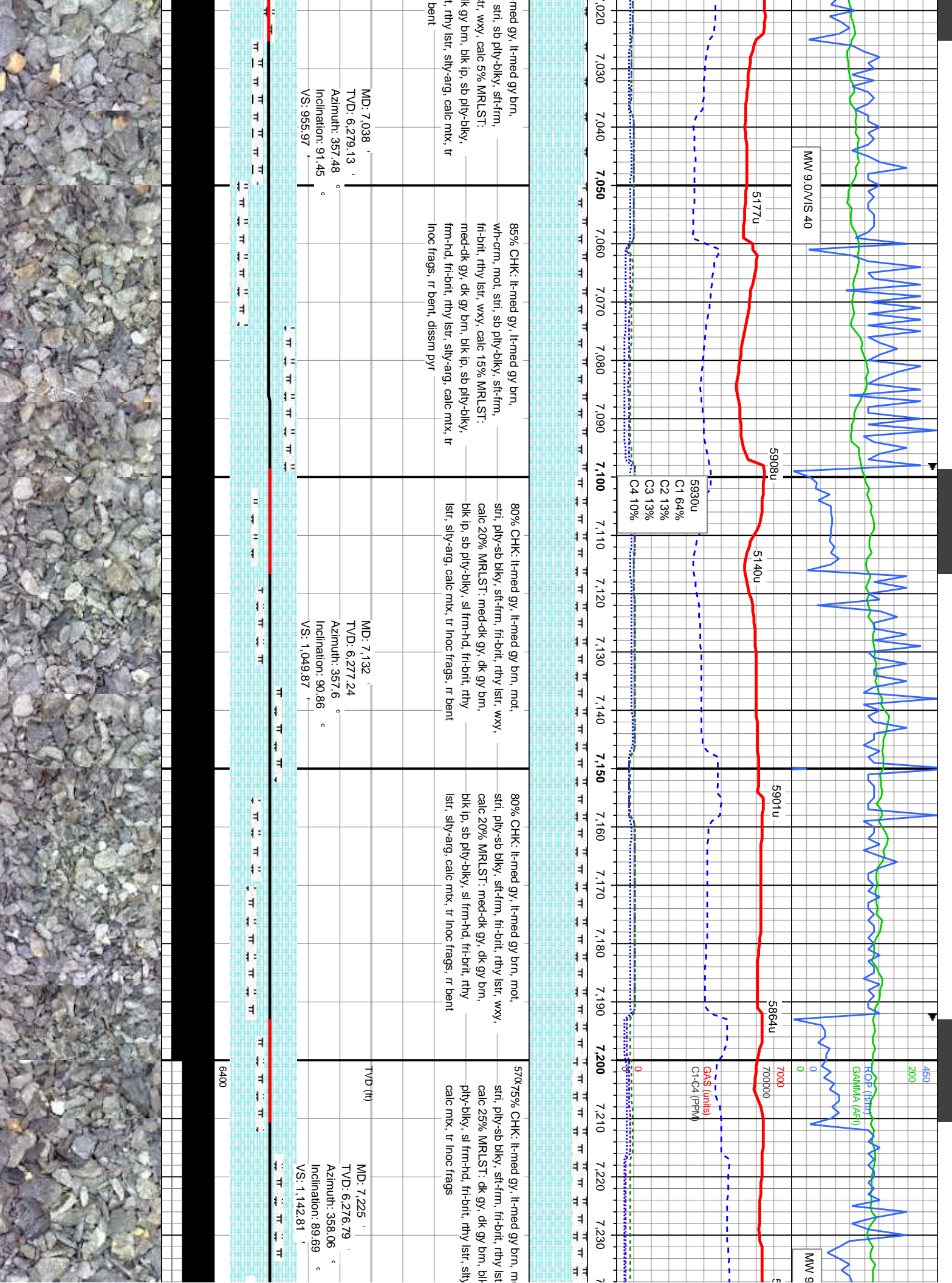




5700	95% CHK: lt-med gy, lt-med gy brn, wh-crm, mot, str, sb ply-bkly, sft-frm, fri-brit, rthy lst, wxy, calc 5% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-bkly, frm-hd, fri-brit, rthy lst, silty-arg, calc mtx	100% CHK: lt-med gy, lt-med gy brn, wh-crm, mot, str, sb ply-bkly, sft-frm, fri-brit, rthy lst, wxy, calc, tr inoc frags, tr bent	90% CHK: lt-med gy, lt-med gy brn, wh-crm, mot, str, sb ply-bkly, sft-frm, fri-brit, rthy lst, wxy, calc 10% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-bkly, frm-hd, fri-brit, rthy lst, silty-arg, calc mix, tr inoc frags	95% CHK: lt-med gy, lt-med gy brn, wh-crm, mot, str, sb ply-bkly, sft-frm, fri-brit, rthy lst, wxy, calc 5% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-bkly, frm-hd, fri-brit, rthy lst, silty-arg, calc mtx, tr inoc frags, rr bent	5700
TVD (ft)					
MD: 6.852 ' TVD: 6.283.44 ' Azimuth: 355.06 ° Inclination: 90.46 ° VS: 770.39 '					
MD: 6.945 ' TVD: 6.281.69 ' Azimuth: 356.36 ° Inclination: 91.7 ° VS: 863.13 '					







MW 9.0/IS 40

MW 9

5177u

5908u

5140u

5901u

5864u

GAS (units)  
C1-C4 (PPM)

med gy, lt-med gy brn, stri, sb ply-bkly, sft frm, tr, wxy, calc 5% MRLST: dk gy brn, blk ip, sb ply-bkly, t, rthy lstr, sily-aig, calc mtx, tr bent	85% CHK: lt-med gy, lt-med gy brn, wh-crm, mot, stri, sb ply-bkly, sft frm, fri-brit, rthy lstr, wxy, calc 15% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-bkly, frm-hd, fri-brit, rthy lstr, sily-aig, calc mtx, tr inoc frags, tr bent, dissim pyr	80% CHK: lt-med gy, lt-med gy brn, mot, stri, ply-sb bkly, sft frm, fri-brit, rthy lstr, wxy, calc 20% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-bkly, sl frm-hd, fri-brit, rthy lstr, sily-aig, calc mtx, tr inoc frags, tr bent	80% CHK: lt-med gy, lt-med gy brn, mot, stri, ply-sb bkly, sft frm, fri-brit, rthy lstr, wxy, calc 20% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-bkly, sl frm-hd, fri-brit, rthy lstr, sily-aig, calc mtx, tr inoc frags, tr bent	570%75% CHK: lt-med gy, lt-med gy brn, m stri, ply-sb bkly, sft frm, fri-brit, rthy lstr, calc 25% MRLST: dk gy, dk gy brn, blk ply-bkly, sl frm-hd, fri-brit, rthy lstr, sily calc mtx, tr inoc frags
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MD: 7,038 '  
TVD: 6,279.13 '  
Azimuth: 357.48 °  
Inclination: 91.45 °  
VS: 955.97 '

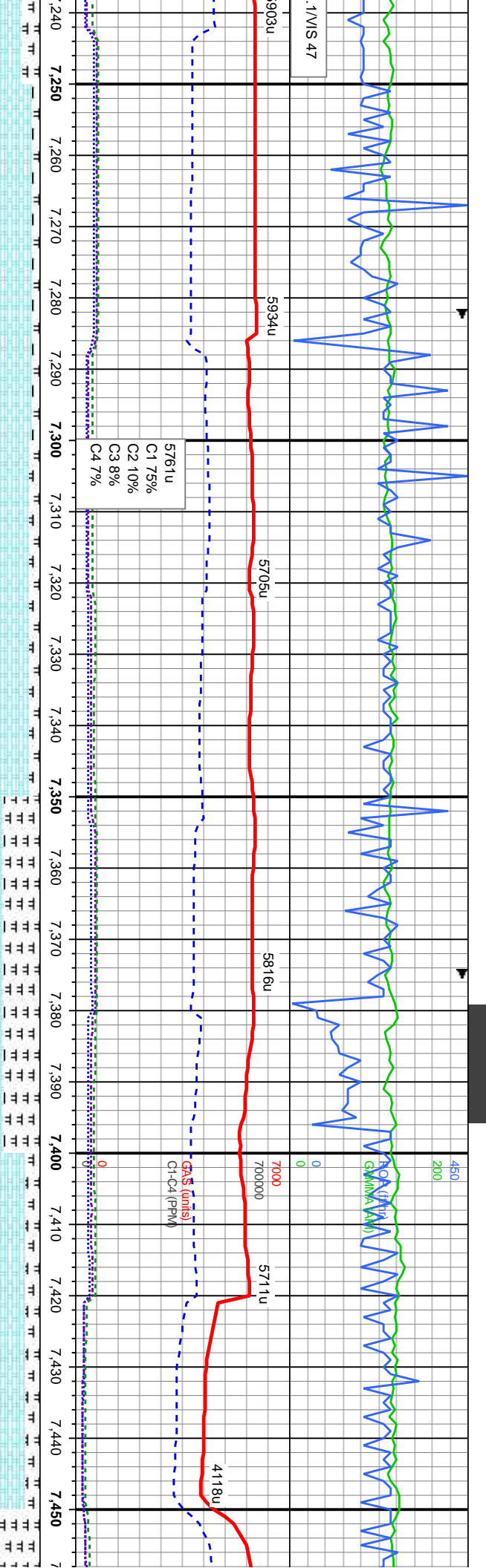
MD: 7,132 '  
TVD: 6,277.24 '  
Azimuth: 357.6 °  
Inclination: 90.86 °  
VS: 1,049.87 '

TVD (ft)

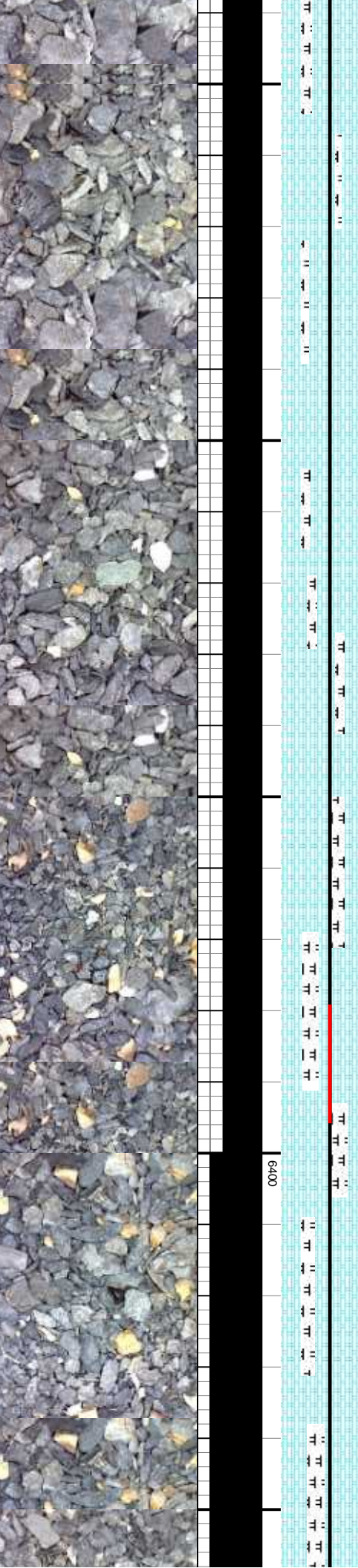
MD: 7,225 '  
TVD: 6,276.79 '  
Azimuth: 358.06 °  
Inclination: 89.69 °  
VS: 1,142.81 '



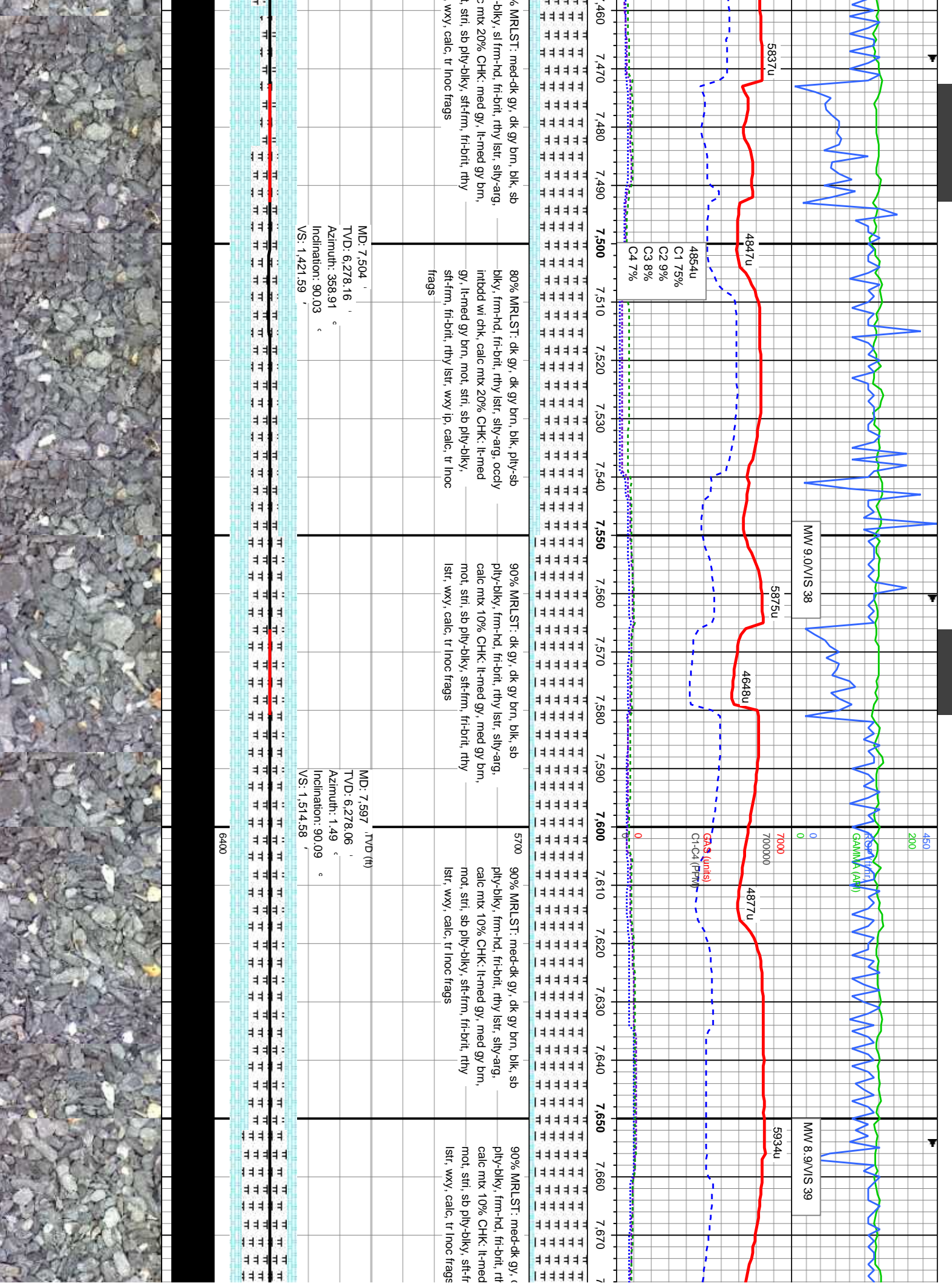




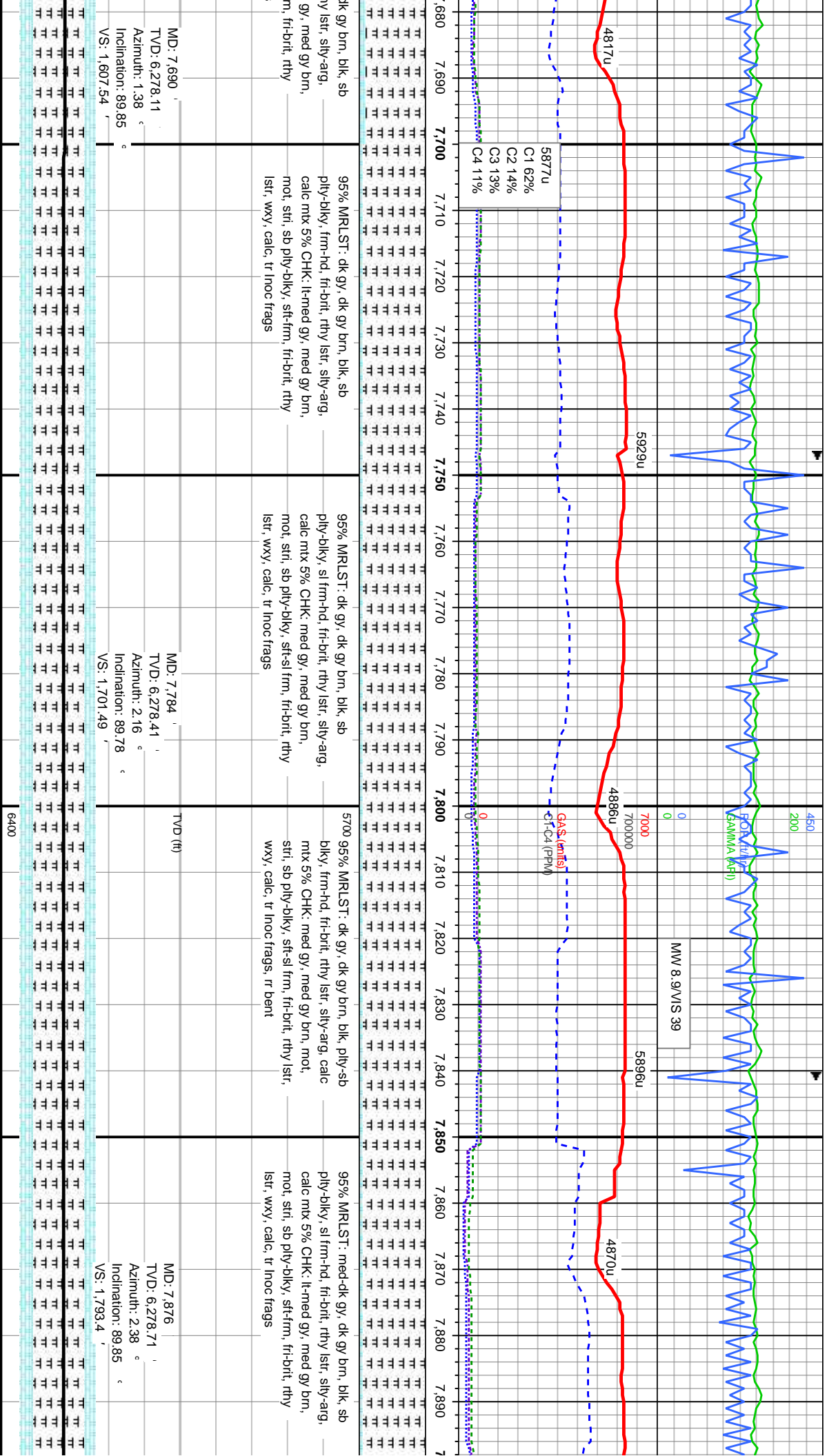
90% CHK: lt-med gy, lt-med gy brn, wh-crm ip, mot, silt, pily-sb blk, silt-frn, fri-brt, rthy lstr, wxy, calc 10% MRLST: dk gy, dk gy brn, blk, sb pily-blk, silt-frn-hd, fri-brt, rthy lstr, sily-arg, calc mix, occy inbdd w/ chk, tr inoc frags	85% CHK: lt-med gy, lt-med gy brn, mot, silt, pily-sb blk, silt-frn, fri-brt, rthy lstr, wxy, calc 15% MRLST: med-dk gy, dk gy brn, blk, sb pily-blk, frn-hd, fri-brt, rthy lstr, sily-arg, calc mix, tr inoc frags	50% CHK: lt-med gy, lt-med gy brn, mot, silt, sb pily-blk, silt-frn, fri-brt, rthy lstr, wxy, calc 50% MRLST: med-dk gy, dk gy brn, blk, sb pily-blk, frn-hd, fri-brt, rthy lstr, sily-arg, occy inbdd w/ chk, calc mix, tr inoc frags, rr bent	5700 80% CHK: lt-med gy, lt-med gy brn, mot, silt, sb pily-blk, silt-frn, fri-brt, rthy lstr, wxy, calc 20% MRLST: med-dk gy, dk gy brn, blk, sb pily-blk, frn-hd, fri-brt, rthy lstr, sily-arg, occy inbdd w/ chk, calc mix, abnt inoc frags	MD: 7,318 ' TVD: 6,277.17 ' Azimuth: 357.03 ° Inclination: 89.85 ° VS: 1,235.74 '











MD: 7.690  
TVD: 6,278.11  
Azimuth: 1.38  
Inclination: 89.85  
VS: 1,607.54

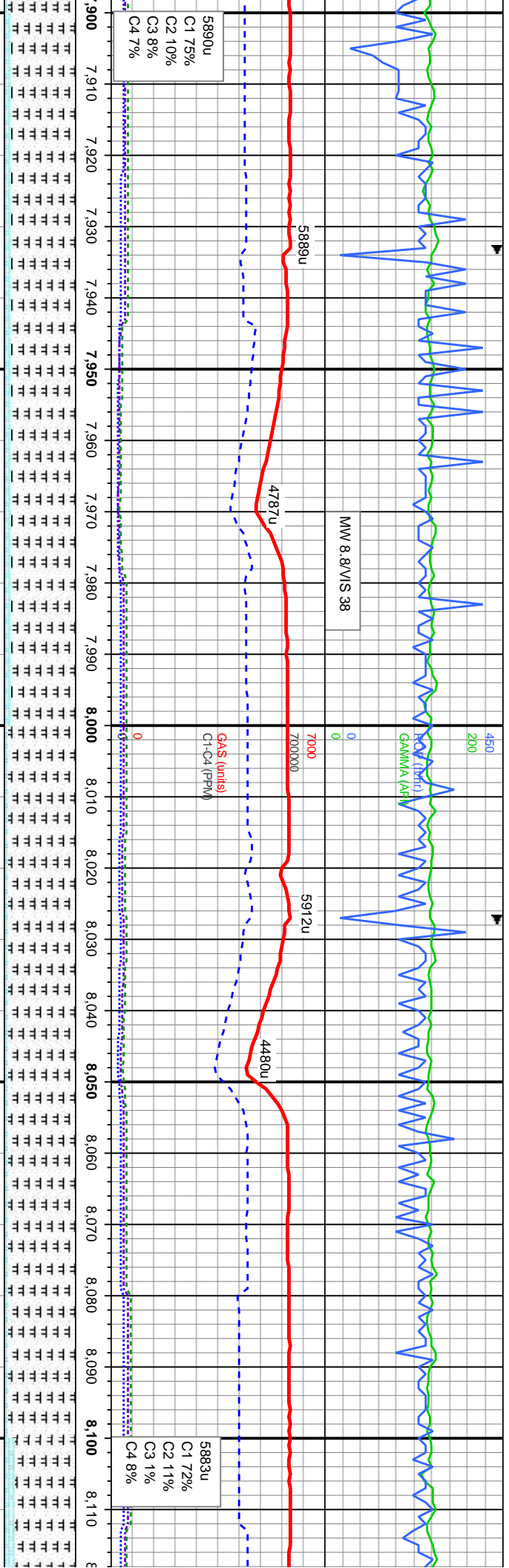
MD: 7.784  
TVD: 6,278.41  
Azimuth: 2.16  
Inclination: 89.78  
VS: 1,701.49

TVD (ft)

MD: 7.876  
TVD: 6,278.71  
Azimuth: 2.38  
Inclination: 89.85  
VS: 1,793.4

6400





5689u  
C1 75%  
C2 10%  
C3 8%  
C4 7%

MW 8.8/VIS 38

GAAS (units)  
C1-C4 (PPM)

5683u  
C1 72%  
C2 11%  
C3 1%  
C4 8%

90% MRLST: dk gy, dk gy brn, blk, sb  
ply-blky, sl frm-hd, fri-brt, rthy lstr, silty-arg,  
calc mix 10% CHK: med gy, med gy brn,  
mot, str, sb ply-blky, sft-frm, fri-brt, rthy  
lstr, wxy ip, calc, tr inoc frags

95% MRLST: med-dk gy, dk gy brn, blk, sb  
ply-blky, sl frm-hd, fri-brt, rthy lstr, silty-arg,  
calc mix 10% CHK: med gy, med gy brn,  
mot, str, sb ply-blky, sft-frm, fri-brt, rthy  
lstr, wxy ip, calc, tr inoc frags, r bent

5700 95% MRLST: dk gy, dk gy brn, blk, sb  
ply-blky, frm-hd, fri-brt, rthy lstr, silty-arg,  
calc mix 5% CHK: lt-med gy, med gy brn,  
mot, str, sb ply-blky, sft-sl frm, fri-brt, rthy  
lstr, wxy, calc, tr inoc frags

95% MRLST: dk gy, dk gy brn, blk,  
ply-blky, frm-hd, fri-brt, rthy lstr, silty-arg,  
calc mix 5% CHK: med gy, med gy brn,  
mot, str, sb ply-blky, sft-sl frm, fri-brt, rthy  
lstr, wxy, calc, tr inoc frags

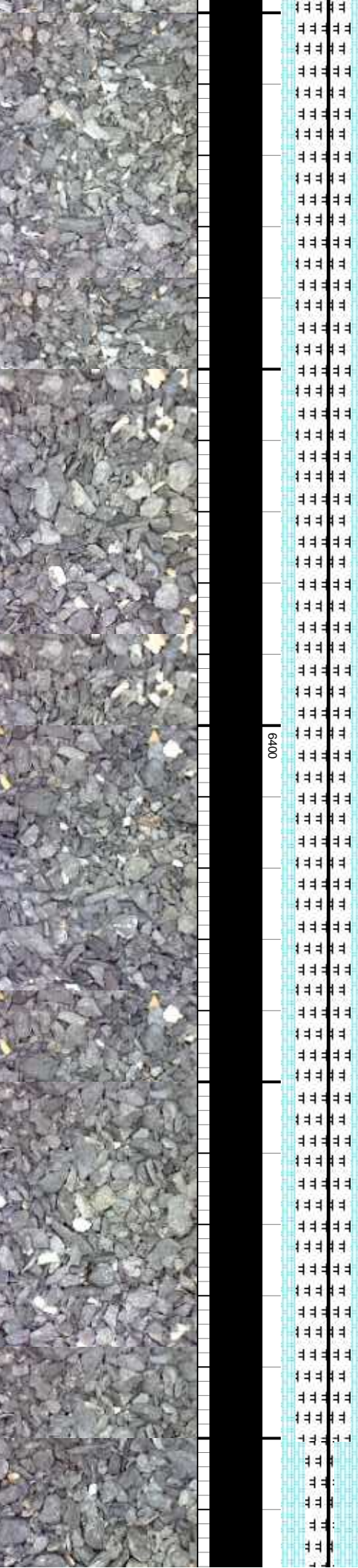
85% MRLST: frm-  
ply-blky, frm-  
calc mix 15%  
wh-crm ip, mc  
fri-brt, rthy lstr

MD: 7,970  
TVD: 6,278.91  
Azimuth: 2.85  
Inclination: 89.91  
VS: 1.887.29

TVD (ft)

MD: 8,064  
TVD: 6,279.16  
Azimuth: 3.93  
Inclination: 89.78  
VS: 1.981.11

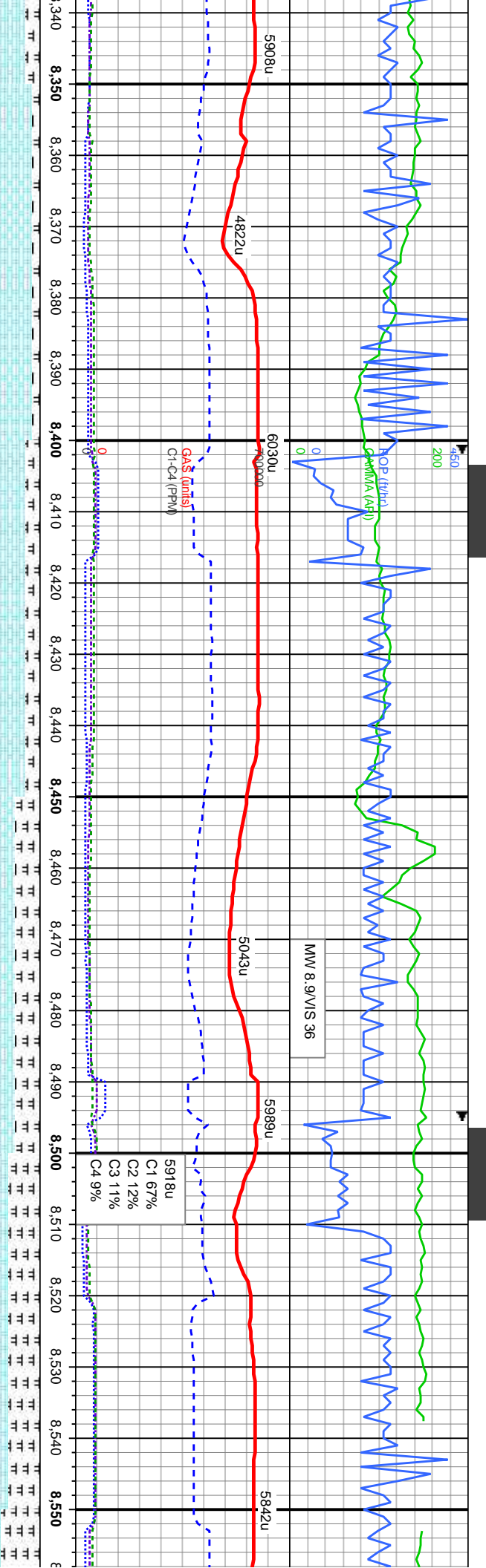
6400



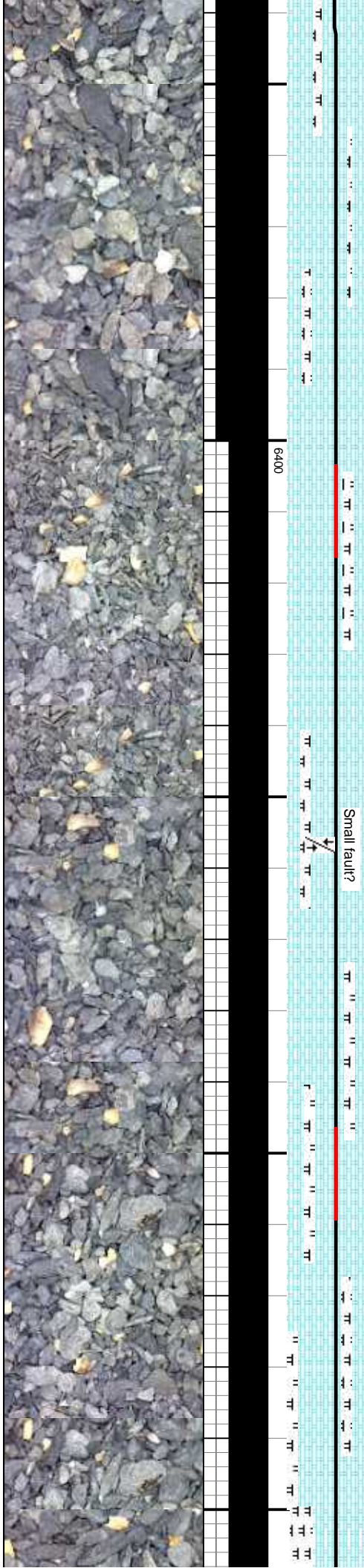




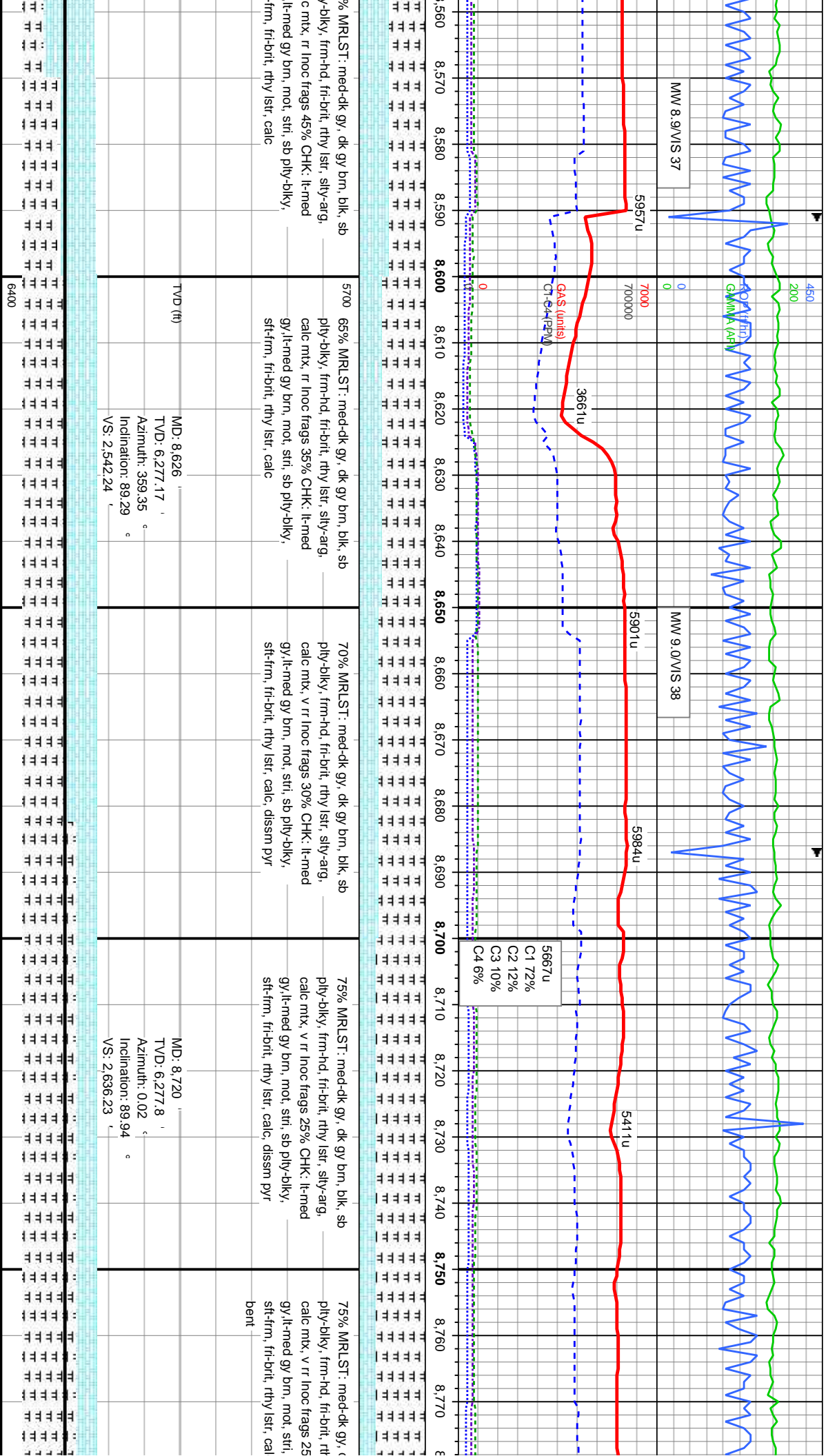


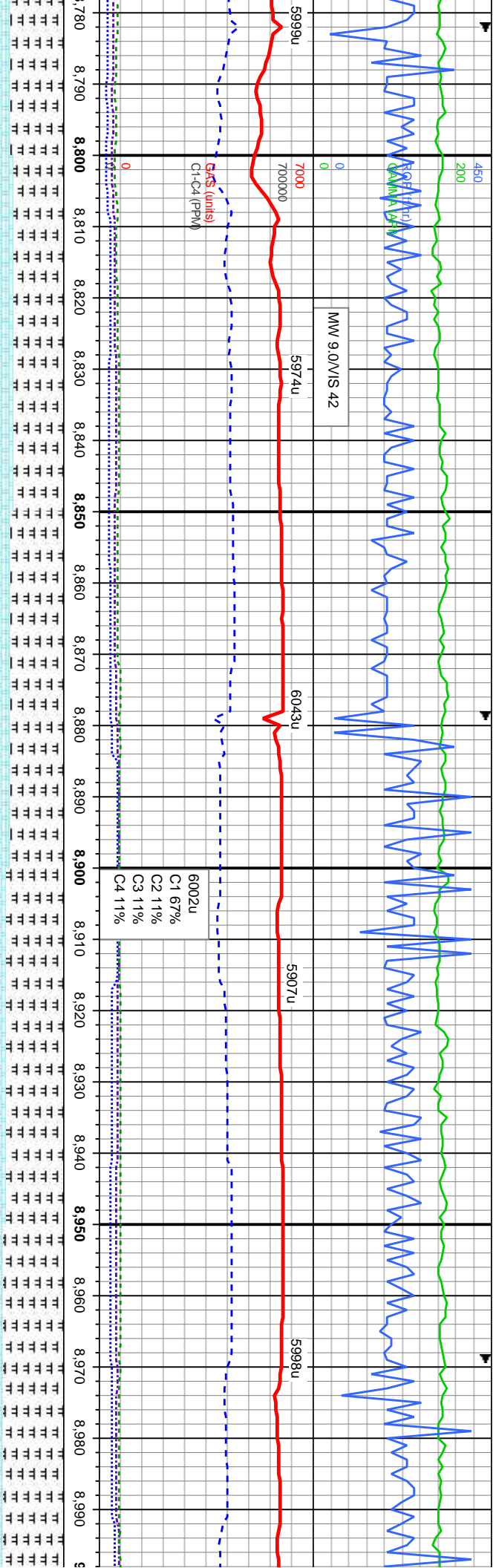


90% CHK: lt gy, lt-med gy brn, wh-crm, mot, stri, sb ply-bkly, sft-frn, fri-brit, rthy lstr, wxy, calc 10% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-bkly, frn-hd, fri-brit, rthy lstr, silty-arg, calc mtx, tr inoc frags	5700 80% CHK: lt-med gy,lt-med gy brn, wh-crm, mot, stri, sb ply-bkly, sft-frn, fri-brit, rthy lstr, wxy, calc 20% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-bkly, frn-hd, fri-brit, rthy lstr, silty-arg, calc mtx, tr inoc frags	65% CHK: lt-med gy,lt-med gy brn, mot, stri, sb ply-bkly, sft-frn, fri-brit, rthy lstr, wxy, calc 35% MRLST: med-dk gy, dk gy brn, blk, sb ply-bkly, frn-hd, fri-brit, rthy lstr, silty-arg, calc mtx, tr inoc frags	55% CHK: lt-med gy,lt-med gy brn, mot, stri, sb ply-bkly, sft-frn, fri-brit, rthy lstr, wxy ip, calc 45% MRLST: med-dk gy, dk gy brn, blk, sb ply-bkly, frn-hd, fri-brit, rthy lstr, silty-arg, calc mtx, tr inoc frags
VD: 8,344 ' , VD: 6,278.13 ' , Azimuth: 1.96 ° , Inclination: 91.11 ° , S: 2,260.32 ' ,	TVD (ft) MD: 8,437 ' , TVD: 6,276.81 ' , Azimuth: 1.38 ° , Inclination: 90.52 ° , VS: 2,353.26 ' ,	Small fault? MD: 8,531 ' , TVD: 6,276.48 ' , Azimuth: 0.34 ° , Inclination: 89.88 ° , VS: 2,447.24 ' ,	MD: 8,531 ' , TVD: 6,276.48 ' , Azimuth: 0.34 ° , Inclination: 89.88 ° , VS: 2,447.24 ' ,







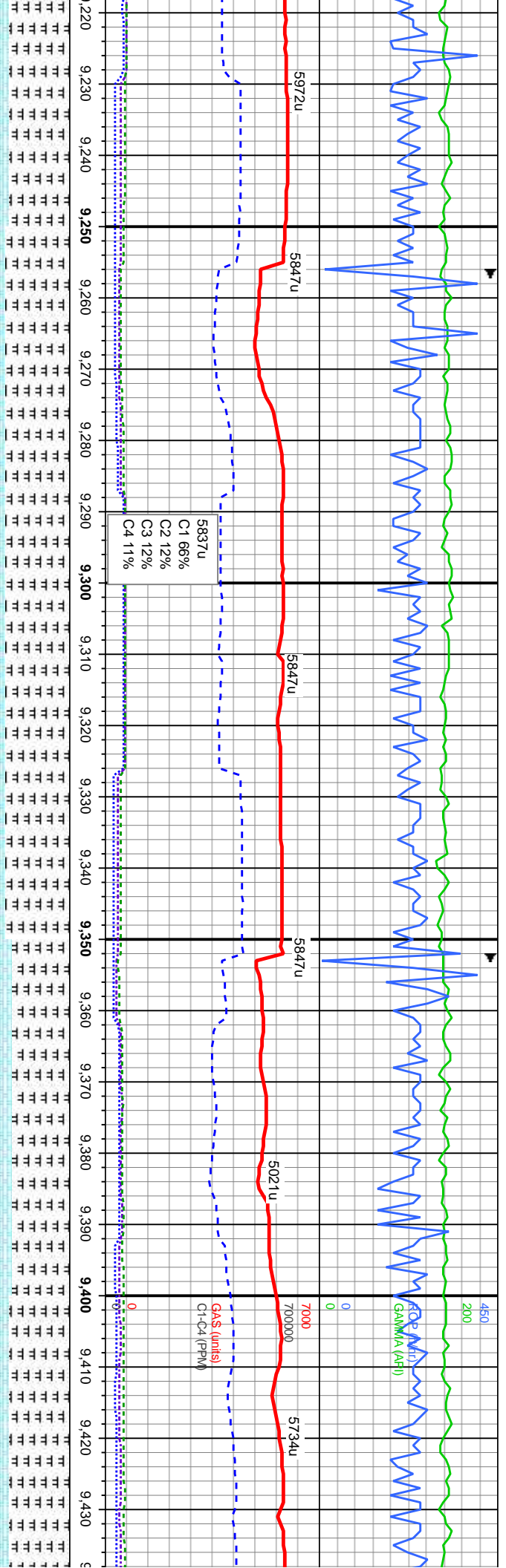
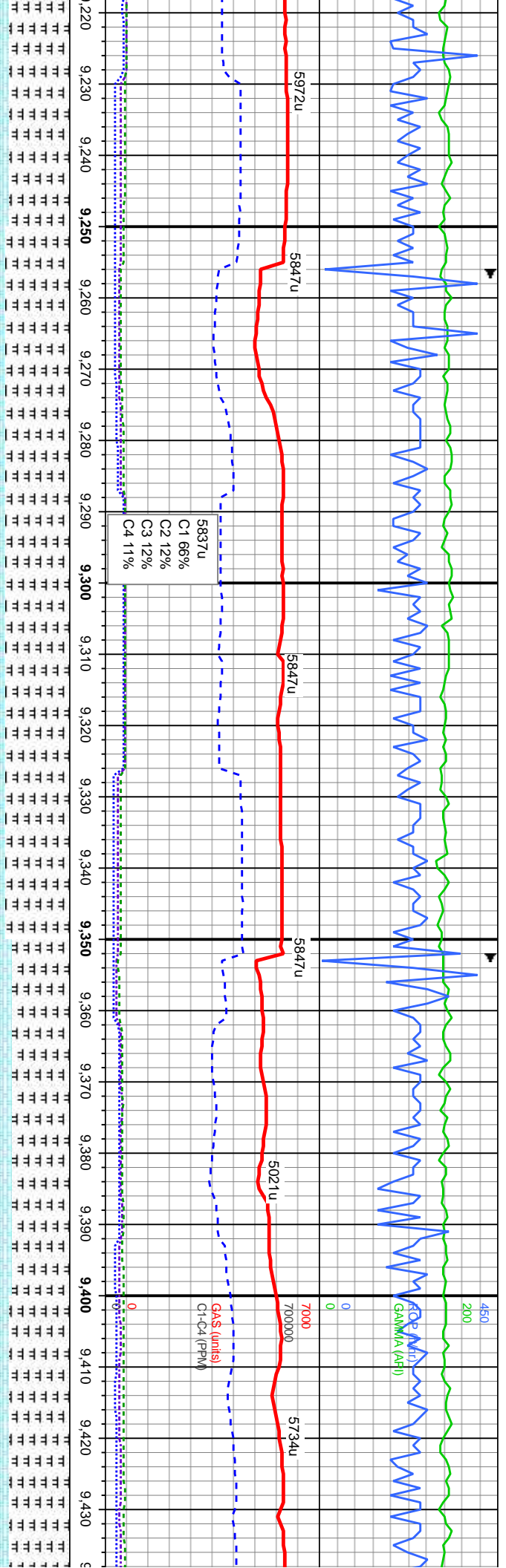
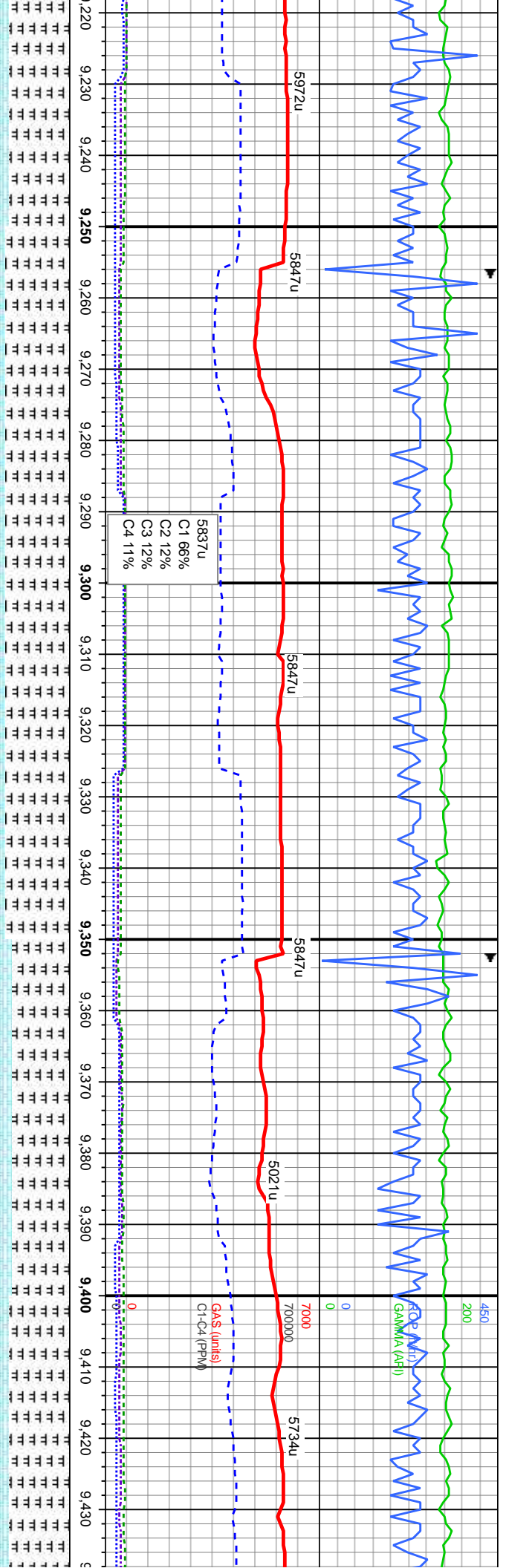
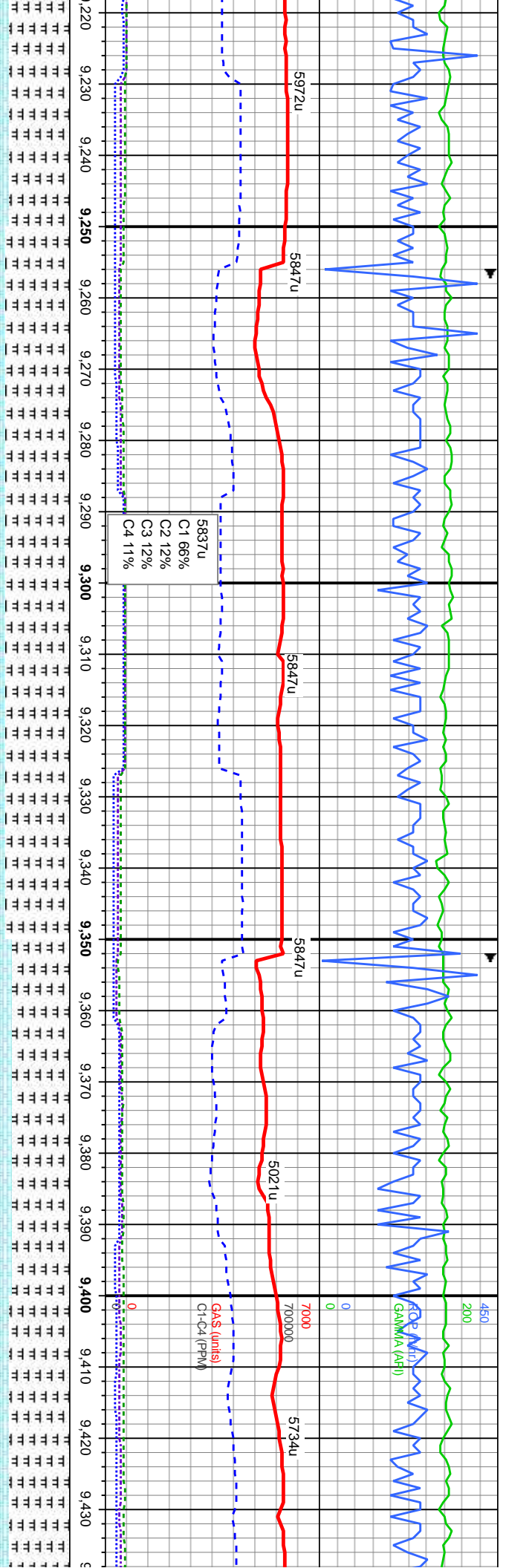
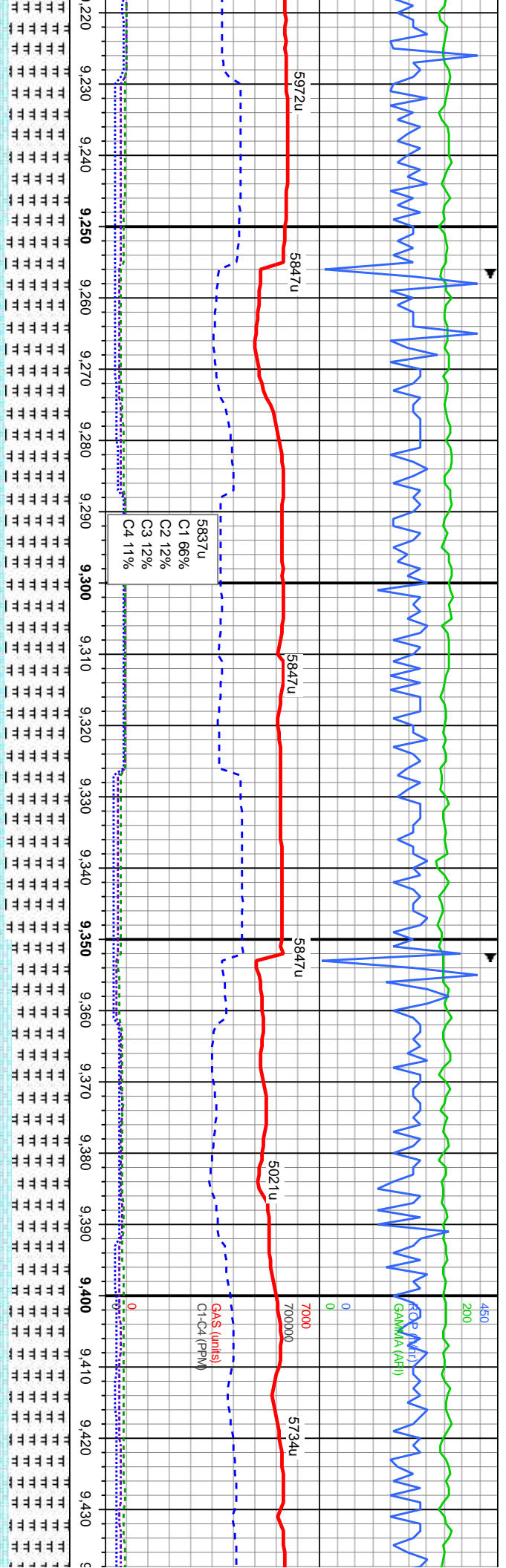
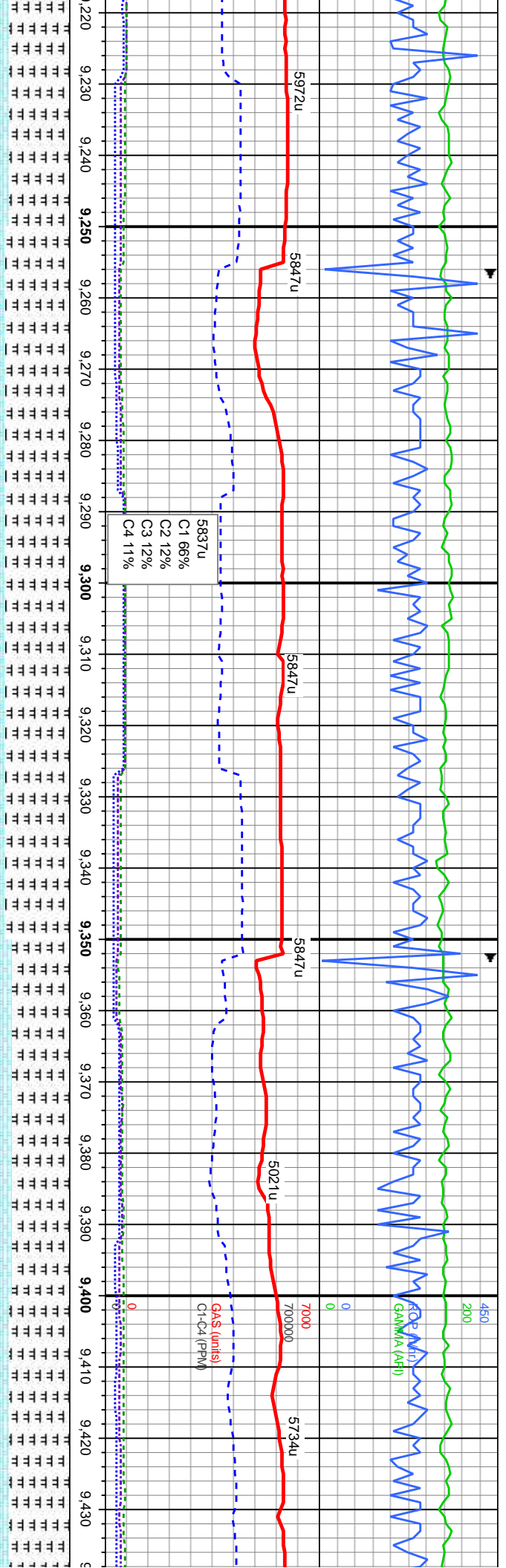
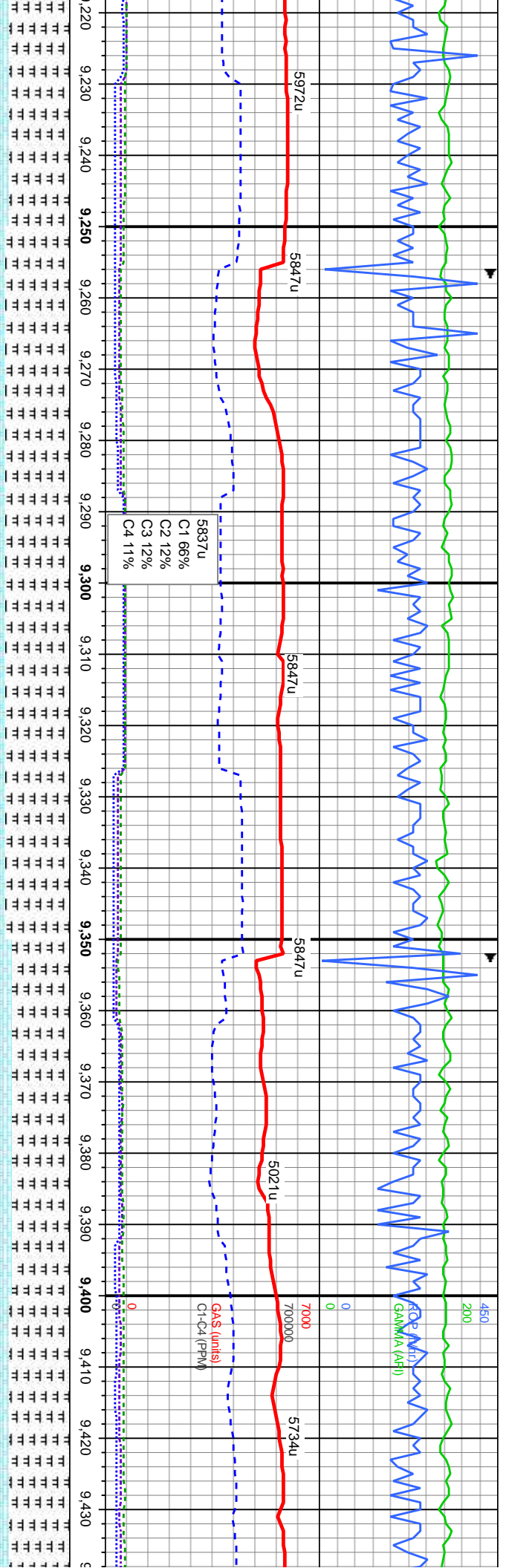
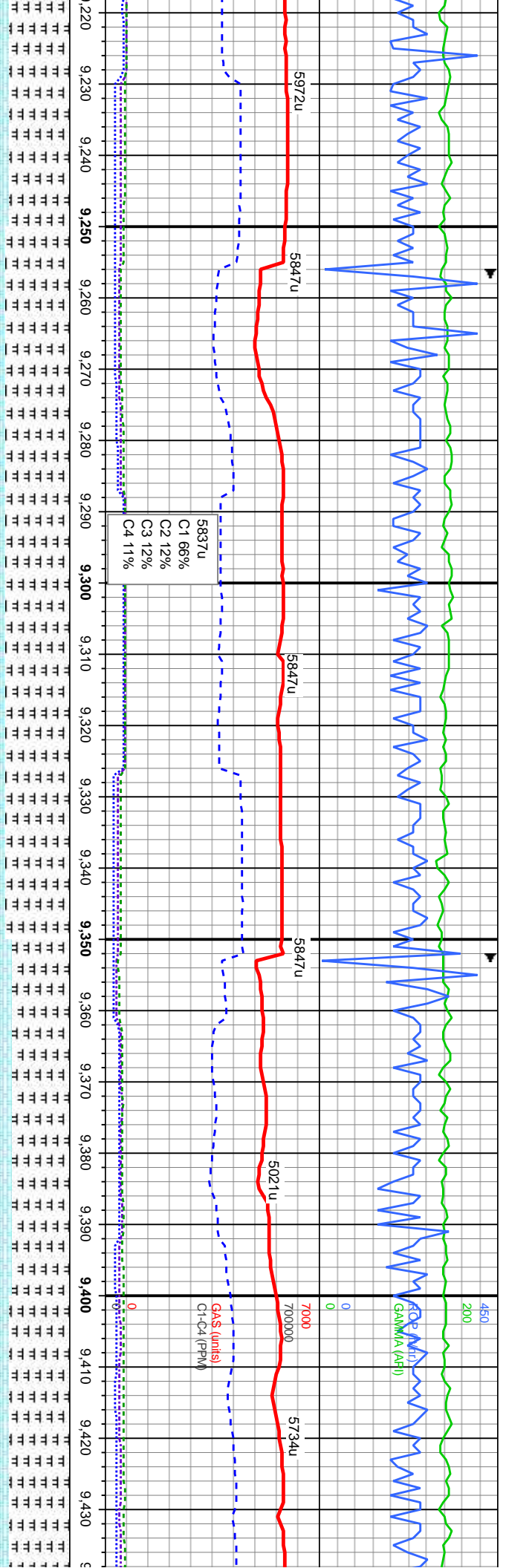
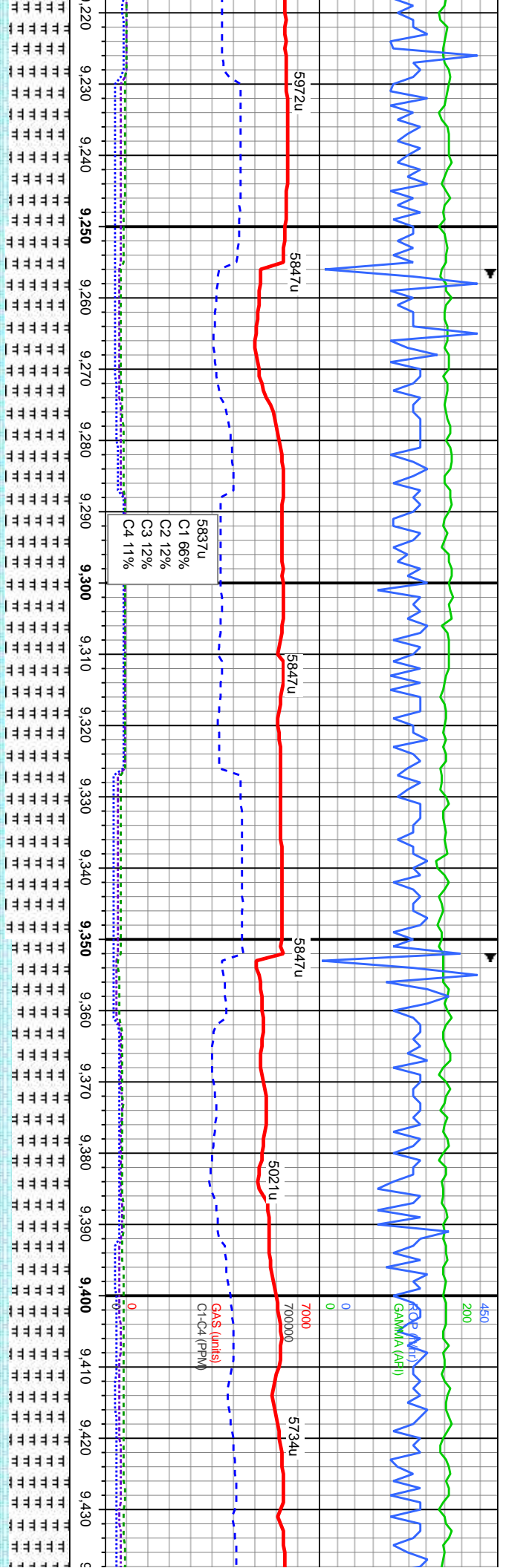
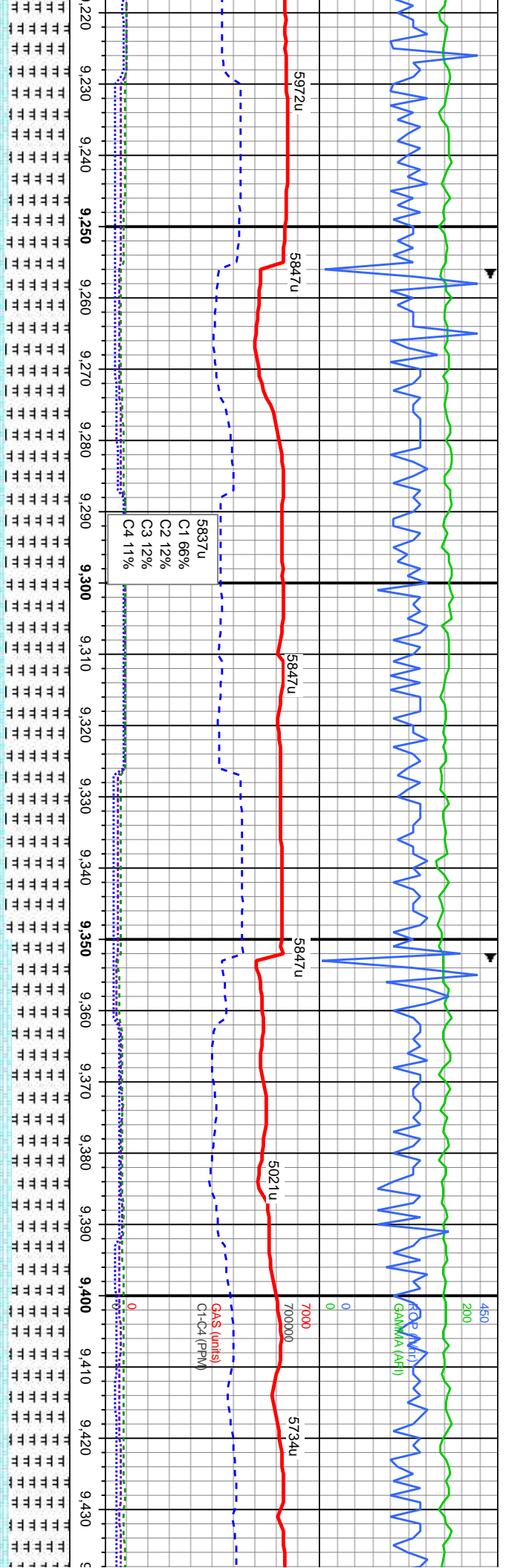
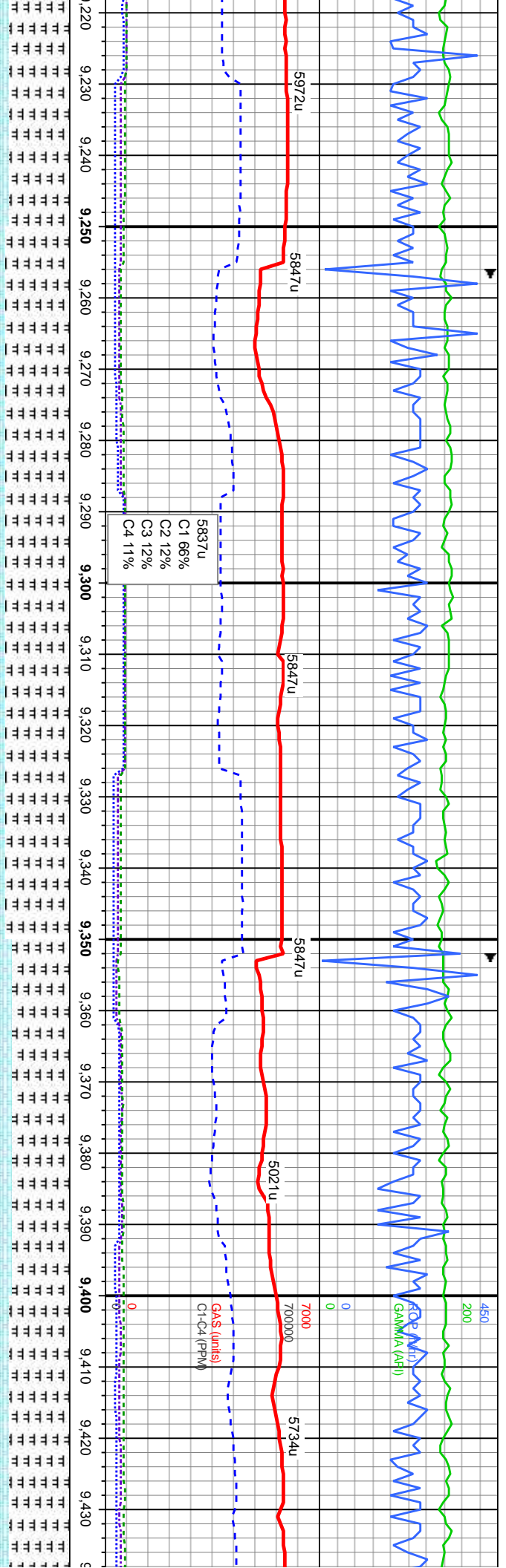
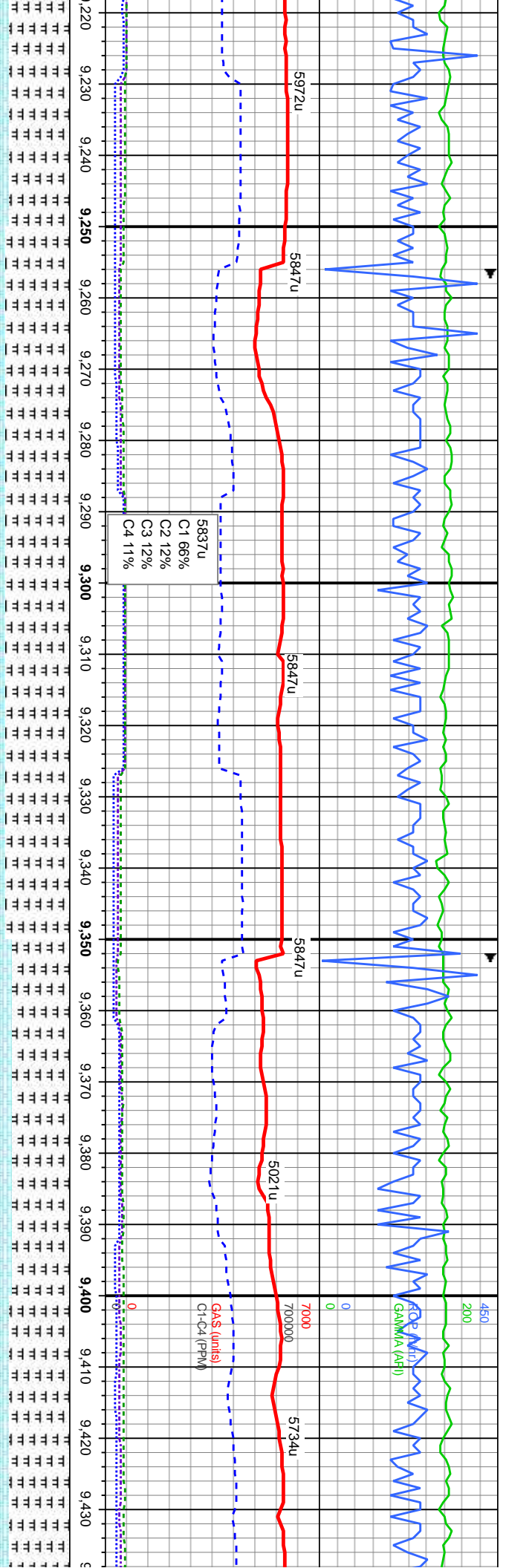
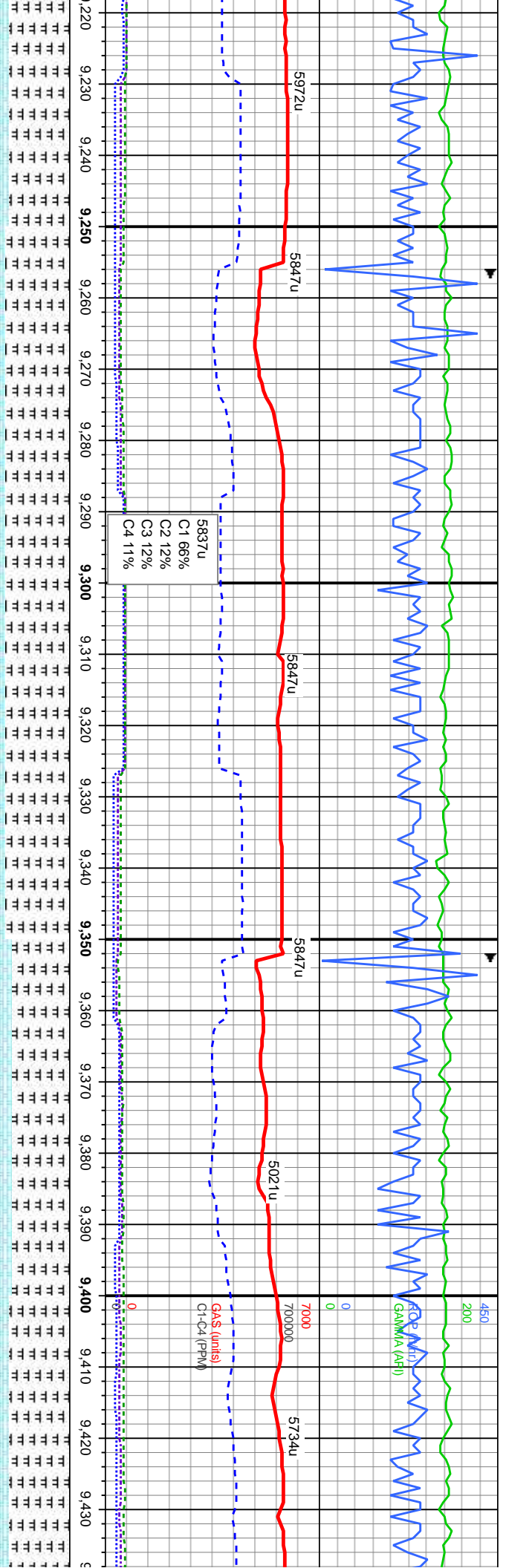
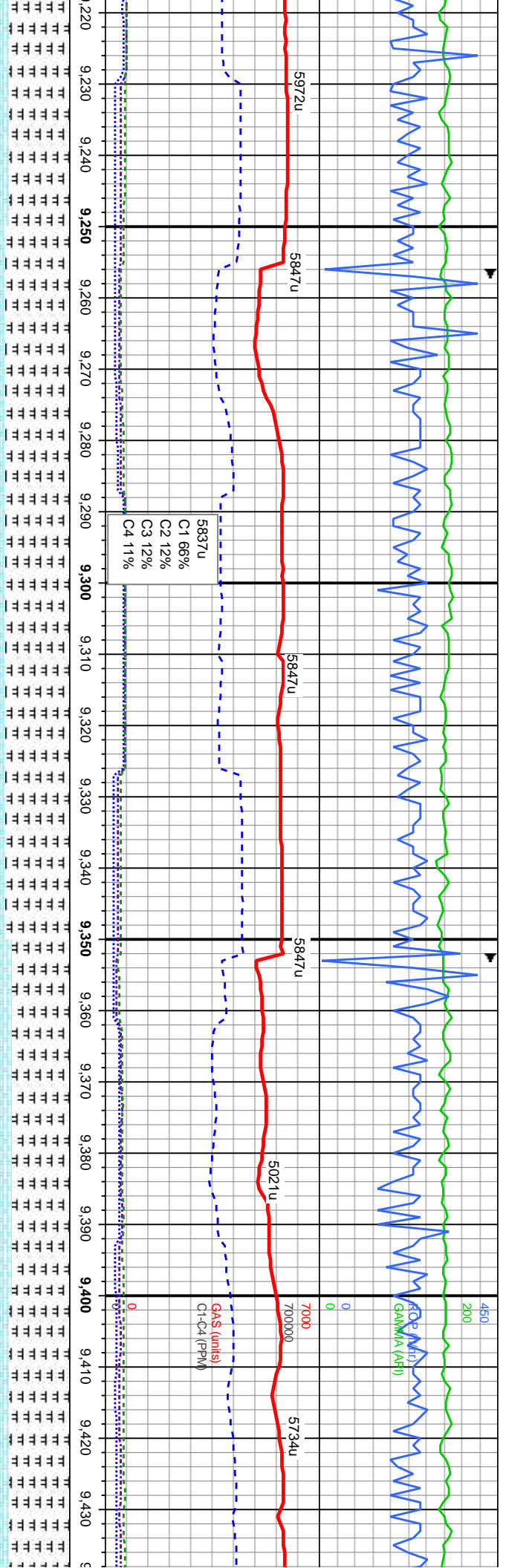
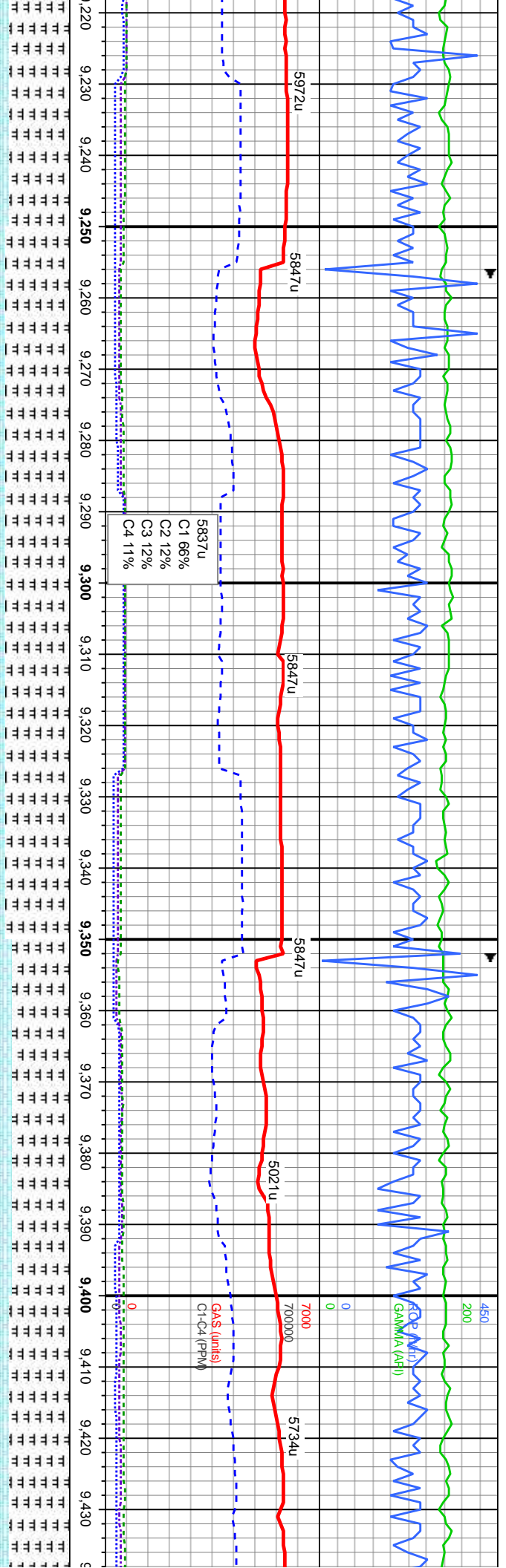


dk gy brn, blk, sb ply-ist, silty-arg, % CHK: lt-med sb ply-blky, c, dissn pyr, tr	5700 70% MRLST: med-dk gy, dk gy brn, blk, sb ply-blky, frm-hd, fri-brit, rthy lstr, silty-arg, calc mnx, v rr lnoc frags 30% CHK: lt-med gy/lt-med gy brn, mot, stri, sb ply-blky, sft-frm, fri-brit, rthy lstr, calc, dissn pyr, tr bent	75% MRLST: med-dk gy, dk gy brn, blk, sb ply-blky, frm-hd, fri-brit, rthy lstr, silty-arg, calc mnx 25% CHK: lt-med gy/lt-med gy brn, mot, stri, sb ply-blky, sft-frm, fri-brit, rthy lstr, calc	80% MRLST: med-dk gy, dk gy brn, blk, sb ply-blky, frm-hd, fri-brit, rthy lstr, silty-arg, calc mnx 20% CHK: lt-med gy/lt-med gy brn, mot, stri, sb ply-blky, sft-frm, fri-brit, rthy lstr, calc	85% MRLST: med-dk gy, dk gy brn, blk, sb ply-blky, frm-hd, fri-brit, rthy lstr, silty-arg, calc mnx, rr lnoc frags 15% CHK: lt-med gy/lt-med gy brn, mot, stri, sb ply-blky, sft-frm, fri-brit, rthy lstr, calc, rr pyr
TVD (ft) MD: 8,815 TVD: 6,277.47 Azimuth: 0.55 Inclination: 90.46 VS: 2,731.23				
TVD (ft) MD: 8,911 TVD: 6,277.91 Azimuth: 358.2 Inclination: 89.01 VS: 2,827.22				
6400				

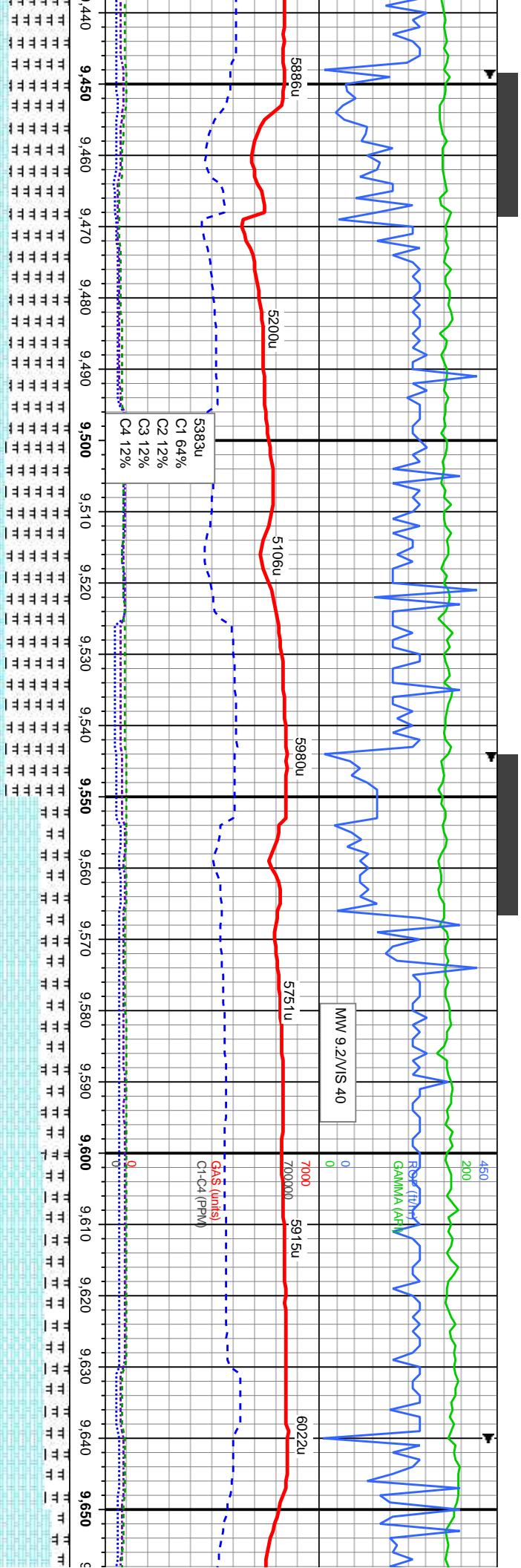








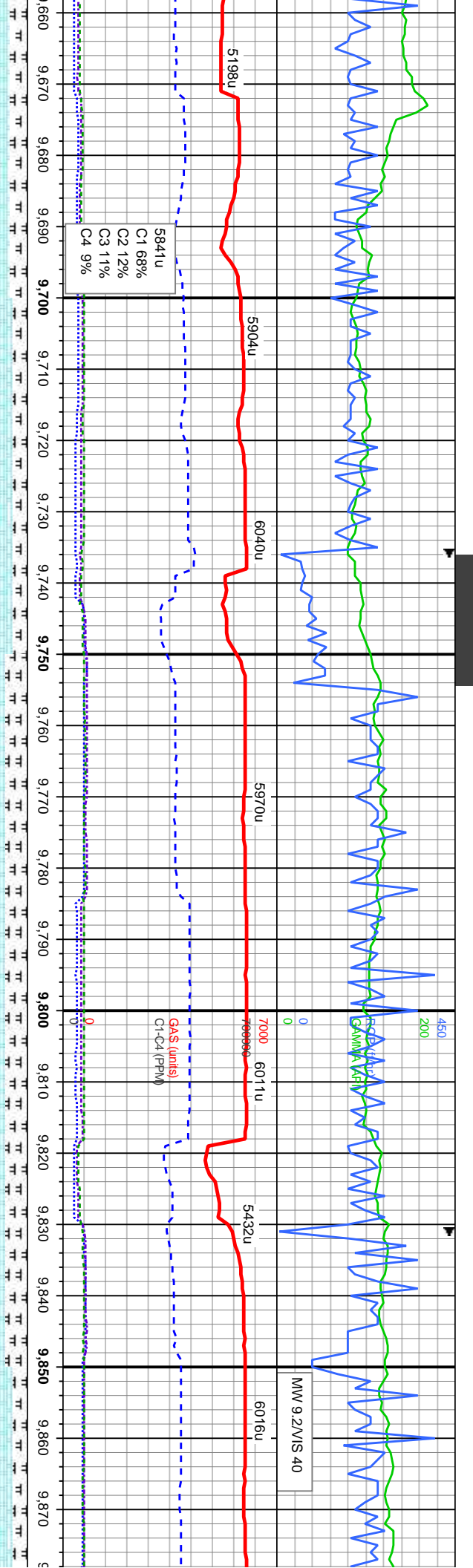




85% MRLST: med-dk gy, dk gy brn, blk, sb ply-biky, frm-hd, frt-brit, rthy lstr, silty-arg, calc mtx, rr inoc frags 15% CHK: lt-med gy/lt-med gy brn, mot, stri, sb ply-biky, sft-frm, frt-brit, rthy lstr, calc, tr pyr	90% MRLST: med-dk gy, dk gy brn, blk, sb ply-biky, frm-hd, frt-brit, rthy lstr, silty-arg, calc mtx, rr inoc frags 10% CHK: lt-med gy/lt-med gy brn, mot, stri, sb ply-biky, sft-frm, frt-brit, rthy lstr, calc, tr pyr	60% CHK: lt-med gy/lt-med gy brn, wh-crm ip, mot, stri, sb ply-biky, sft-frm, frt-brit, rthy lstr, wxy ip, calc 40% MRLST: med-dk gy, dk gy brn, blk, sb ply-biky, frm-hd, frt-brit, rthy lstr, silty-arg, calc mtx, rr inoc frags	5700 65% CHK: lt-med gy/lt-med gy brn, wh-crm ip, mot, stri, sb ply-biky, sft-frm, frt-brit, rthy lstr, wxy ip, calc 35% MRLST: med-dk gy, dk gy brn, blk, sb ply-biky, frm-hd, frt-brit, rthy lstr, silty-arg, calc mtx, rr inoc frags	75% ip, lstr dk rthy
MD: 9.484 TVD: 6.279.65 Azimuth: 1.91 Inclination: 90.06 VS: 3.400.09				
MD: 9.579 TVD: 6.280.34 Azimuth: 1.11 Inclination: 89.11 VS: 3.495.05				
TVD (ft)				
6400				



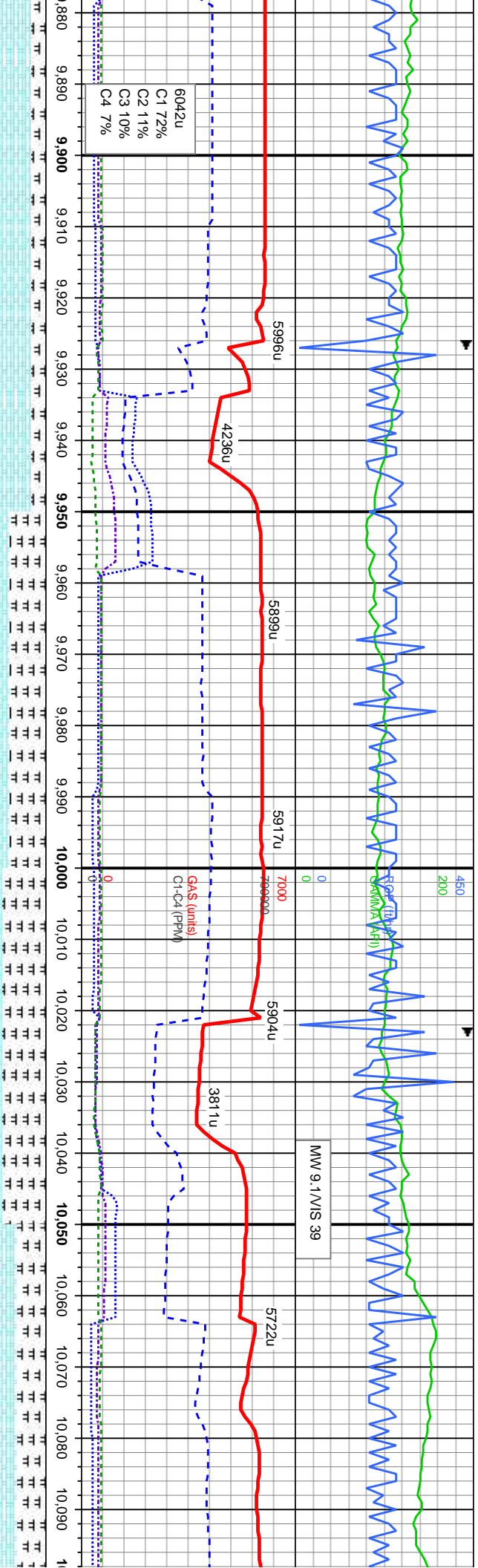




80% CHK: lt-med gy,lt-med gy brn, wh-crm mot, stri, sb ply-bkly, sft-firm, fri-brit, rthy wxy ip, calc 25% MRLST: med-dk gy, gy brn, blk, sb ply-bkly, frm-hd, fri-brit, lst, silty-arg, calc mtx, tr inoc frags		80% CHK: lt-med gy,lt-med gy brn, wh-crm ip, mot, stri, sb ply-bkly, sft-firm, fri-brit, rthy lst, wxy ip, calc 20% MRLST: med-dk gy, dk gy brn, blk, sb ply-bkly, frm-hd, fri-brit, rthy lst, silty-arg, calc mtx, tr inoc frags		70% CHK: lt-med gy,lt-med gy brn, wh-crm ip, mot, stri, sb ply-bkly, sft-firm, fri-brit, rthy lst, wxy ip, calc 30% MRLST: med-dk gy, dk gy brn, blk, sb ply-bkly, frm-hd, fri-brit, rthy lst, silty-arg, calc mtx, tr inoc frags		5700 70% CHK: lt-med gy,lt-med gy brn, wh-crm ip, mot, stri, sb ply-bkly, sft-firm, fri-brit, rthy lst, wxy ip, calc 30% MRLST: med-dk gy, dk gy brn, blk, sb ply-bkly, frm-hd, fri-brit, rthy lst, silty-arg, calc mtx, tr inoc frags		80% CHK: lt-med gy,lt-med gy,lt-med gy ip, mot, stri, sb ply-bkly, sft-firm, fri-brit, rthy lst, wxy ip, calc 20% MRLST: med-dk gy, dk gy brn, blk, sb ply-bkly, frm-hd, fri-brit, rthy lst, silty-arg, calc mtx, tr inoc frags	
MD: 9.675 TVD: 6,281.16 Azimuth: 2.27 Inclination: 89.91 VS: 3,590.99		MD: 9.770 TVD: 6,281.98 Azimuth: 359.1 Inclination: 89.1 VS: 3,685.97		MD: 9.865 TVD: 6,283.06 Azimuth: 0 Inclination: 89.6 VS: 3,780.96		TVD (ft)		VS: 3,780.96	







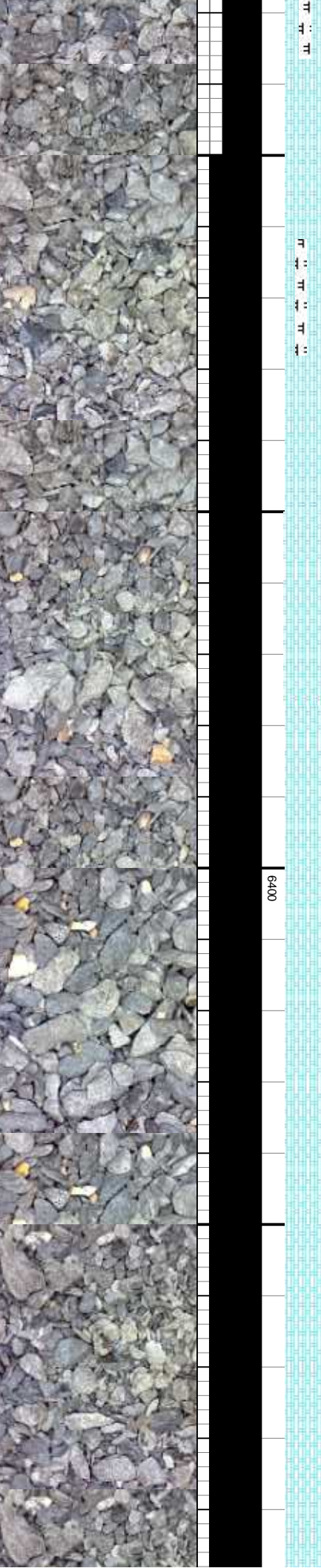
med gy brn, wh-crm sft-frm, fri-brt, rthy MRLST: med-dk gy, y: frm-hd, fri-brt, x, tr inoc frags	80% CHK: lt-med gy,lt-med gy brn, wh-crm ip, mot, stri, sb pily-blky, sft-frm, fri-brt, rthy lstr, wxy ip, calc 20% MRLST: med-dk gy, dk gy brn, blk, sb pily-blky, frm-hd, fri-brt, rthy lstr, sily-arg, calc mx, tr inoc frags	50% CHK: lt-med gy,lt-med gy brn, wh-crm ip, mot, stri, sb pily-blky, sft-frm, fri-brt, rthy lstr, wxy ip, calc 50% MRLST: med-dk gy, dk gy brn, blk, sb pily-blky, frm-hd, fri-brt, rthy lstr, sily-arg, calc mx, tr inoc frags, tr pyr	5700 60% MRLST: med-dk gy, dk gy brn, blk, sb pily-blky, frm-hd, fri-brt, rthy lstr, sily-arg, calc mx 40% CHK: lt-med gy,lt-med gy brn, mot, stri, sb pily-blky, sft-frm, fri-brt, rthy lstr, wxy ip, calc, tr inoc frags	60% CHK: lt-med gy,lt-med gy brn, wh-crm ip, mot, stri, sb pily-blky, sft-frm, fri-brt, rthy lstr, wxy, calc 40% MRLST: med-dk gy, dk gy brn, blk ip, sb pily-blky, frm-hd, fri-brt, rthy lstr, sily-arg, calc mx, tr inoc frags
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TVD: 6,282.89 '  
Azimuth: 0.73 °  
Inclination: 90.6 °  
VS: 3.875.95 '

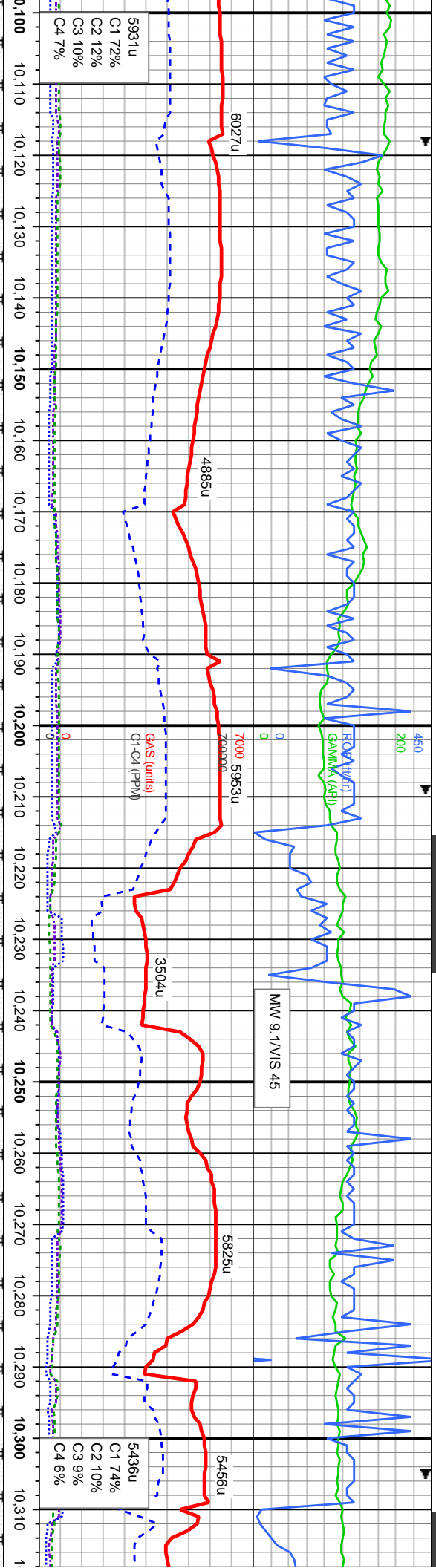
TVD (ft)

MD: 10.056 '  
TVD: 6,281.63 '  
Azimuth: 0.92 °  
Inclination: 90.9 °  
VS: 3.971.93 '

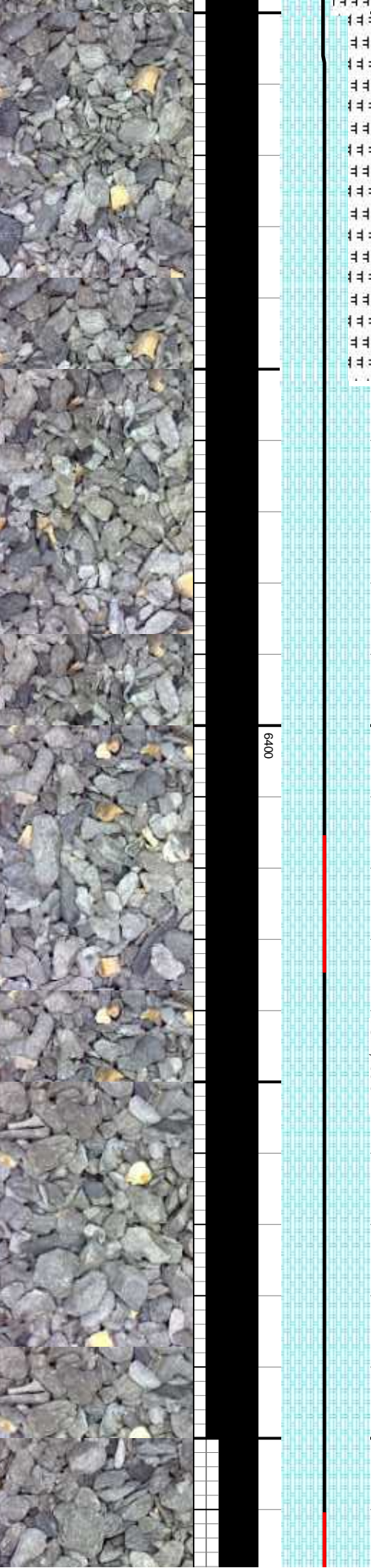
6400

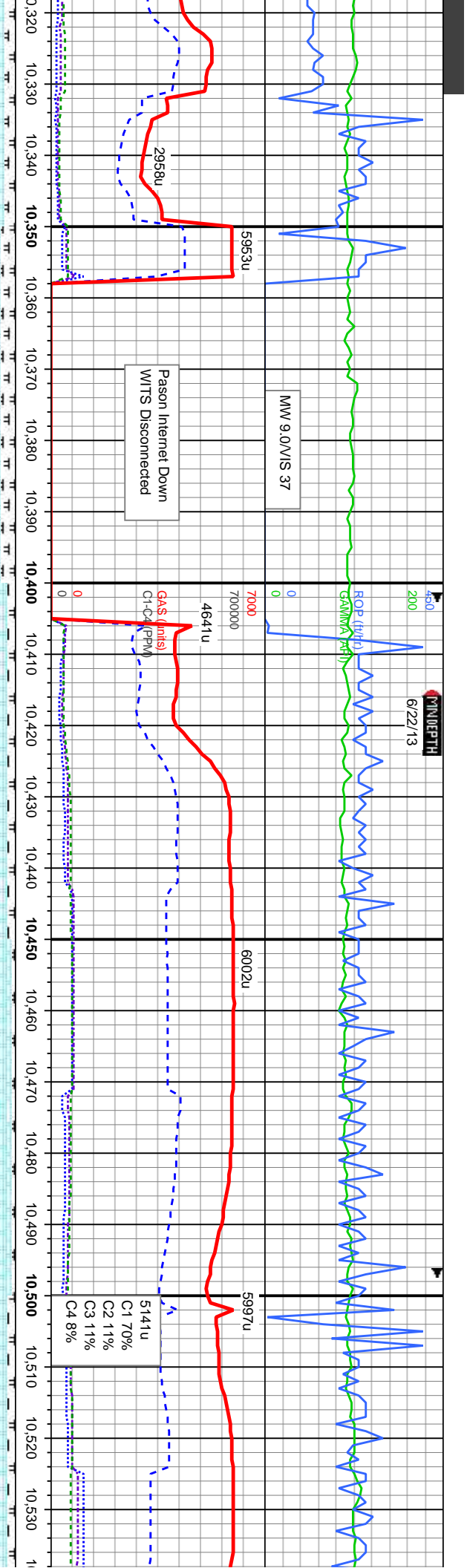




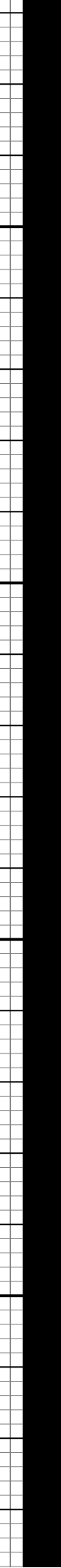
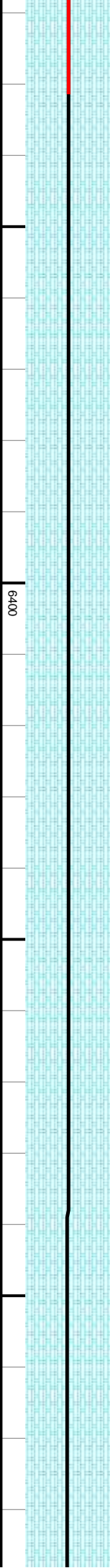


90% CHK: lt-med gy,lt-med gy brn, wh-crm, mot, str, pty-biky, sft-fm, fr-brit, rthy lstr, wxy, calc 10% MRLST: med-dk gy, dk gy brn, blk ip, sb pty-biky, frm-hd, fr-brit, rthy lstr, slty-arg, calc mx, tr inoc frags	90% CHK: lt-med gy,lt-med gy brn, wh-crm, mot, str, pty-biky, sft-fm, fr-brit, rthy lstr, wxy, calc 10% MRLST: med-dk gy, dk gy brn, blk ip, sb pty-biky, frm-hd, fr-brit, rthy lstr, slty-arg, calc mx, tr inoc frags	5700 85% CHK: lt-med gy,lt-med gy brn, wh-crm, mot, str, pty-biky, sft-fm, fr-brit, rthy lstr, wxy, calc 15% MRLST: med-dk gy, dk gy brn, blk ip, sb pty-biky, frm-hd, fr-brit, rthy lstr, slty-arg, calc mx, tr inoc frags	90% CHK: lt-med gy,lt-med gy brn, mot, str, pty-biky, sft-fm, fr-brit, rthy lstr, wxy, calc 10% MRLST: med-dk gy, dk gy brn, blk ip, sb pty-biky, frm-hd, fr-brit, rthy lstr, slty-arg, calc mx, tr inoc frags	85% CHK: lt-med gy,lt-med gy brn, mot, str, pty-biky, sft-fm, fr-brit, rthy lstr, wxy, calc 15% MRLST: med-dk gy, dk gy brn, blk ip, sb pty-biky, frm-hd, fr-brit, rthy lstr, slty-arg, calc mx, tr inoc frags
MD: 10,152 TVD: 6,279.95 Azimuth: 1.2 ° Inclination: 91.11 ° VS: 4,067.89 '	MD: 10,248 TVD: 6,278.55 Azimuth: 359.71 ° Inclination: 90.56 ° VS: 4,163.87 '	MD: 10,248 TVD: 6,278.55 Azimuth: 359.71 ° Inclination: 90.56 ° VS: 4,163.87 '	MD: 10,248 TVD: 6,278.55 Azimuth: 359.71 ° Inclination: 90.56 ° VS: 4,163.87 '	MD: 10,248 TVD: 6,278.55 Azimuth: 359.71 ° Inclination: 90.56 ° VS: 4,163.87 '





med gy,lt-med gy brn, mot, frm-sl-hd, fr-brt, rthy lstr, wxy, ST: med-dk gy, dk gy brn, blk, frm-hd, fr-brt, rthy lstr, mmx, rr inoc frags, tr bent, rr	80% CHK: lt-med gy,lt-med gy brn, mot, str, ply-blky, frm-sl-hd, fr-brt, rthy lstr, wxy, calc 20% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-blky, frm-hd, fr-brt, rthy lstr, silv-arg, calc mtx, rr inoc frags	5700 90% CHK: lt-med gy,lt-med gy brn, wh-crm, mot, str, sb ply-blky, sft-frm, fr-brt, rthy lstr, wxy, calc 10% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-blky, frm-hd, fr-brt, rthy lstr, silv-arg, calc mtx, tr inoc frags, rr bent	95% CHK: lt-med gy,lt-med gy brn, wh-crm, mot, str, sb ply-blky, sft-sl frm, fr-brt, rthy lstr, wxy, calc 5% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-blky, frm-hd, fr-brt, rthy lstr, silv-arg, calc mtx, tr inoc frags	90% CHK: lt-med gy,lt-med gy brn wh-crm, mot, str, sb ply-blky, sft-frt, fr-brt, rthy lstr, wxy, calc 10% MRLST: med-dk gy, dk gy brn, blk ip, sb ply frm-hd, fr-brt, rthy lstr, silv-arg, ca inoc frags
MD: 10,343 TVD: 6,278.7 Azimuth: 358.01 Inclination: 89.26 VS: 4,258.85		MD: 10,439 TVD: 6,280.02 Azimuth: 358.37 Inclination: 89.16 VS: 4,354.81		MD: 10,535 TVD: 6,281 Azimuth: 35 Inclination: 1 VS: 4,450.7



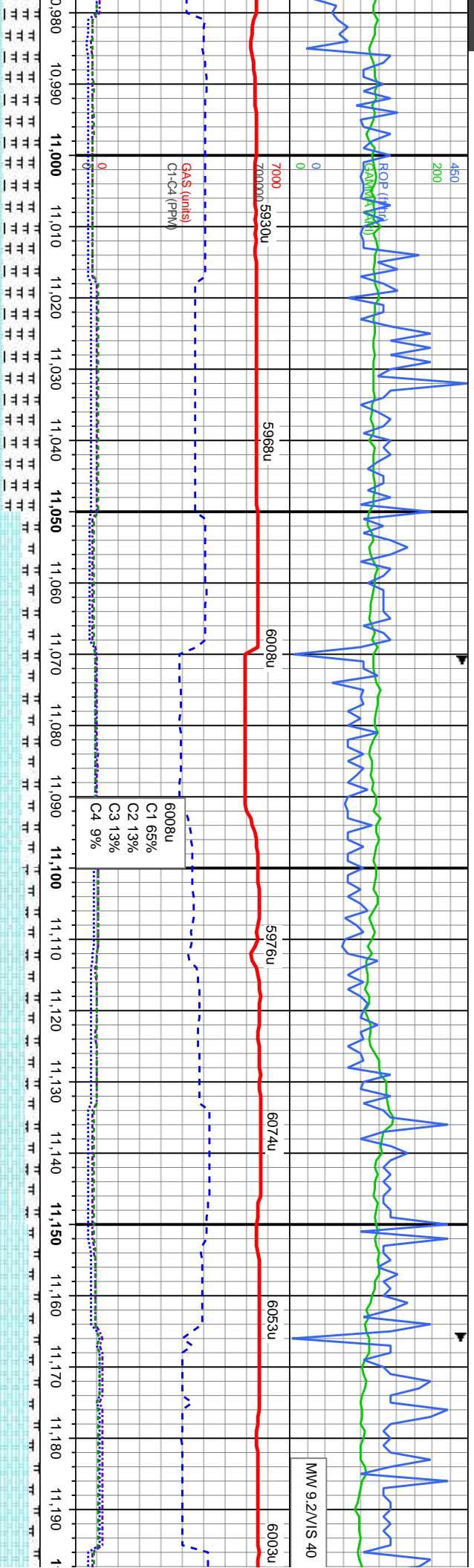






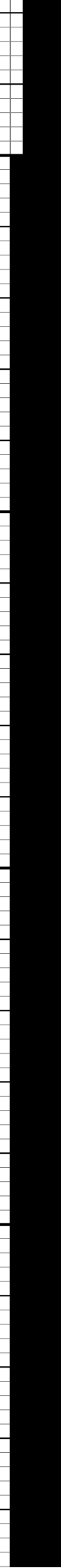






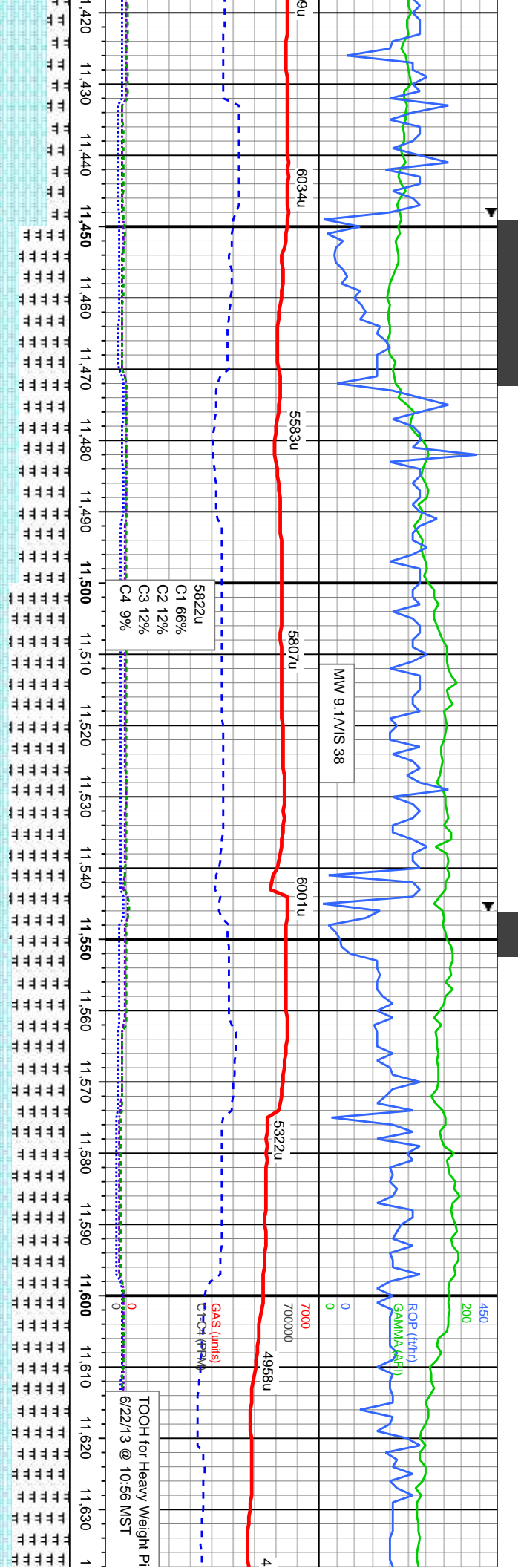
med gy brn, wh-crm, mot, srt, sb pty-biky, sft-sl frm, fr-brit, rthy lstr, wxy ip, calc 50% MRLST: med-dk gy, dk gy brn, blk ip, sb pty-biky, mod sft-hd, fr-brit, rthy lstr, silty-arg, calc mix, rr inoc frags, rr bent, intbd ip wh chk	5700	50% CHK: lt-med gy, lt-med gy brn, wh-crm ip, mot, srt, sb pty-biky, sft-sl frm, fr-brit, rthy lstr, wxy ip, calc 50% MRLST: med-dk gy, dk gy brn, blk ip, sb pty-biky, mod sft-hd, fr-brit, rthy lstr, silty-arg, calc mix, rr inoc frags, rr bent, intbd ip wh chk	75% CHK: lt-med gy, lt-med gy brn, wh-crm, mot, srt, sb pty-biky, sft-sl frm, fr-brit, rthy lstr, wxy, calc 25% MRLST: med-dk gy, dk gy brn, blk ip, sb pty-biky, mod sft-hd, fr-brit, rthy lstr, silty-arg, calc mix, rr inoc frags, rr pyr	80% CHK: lt-med gy, lt-med gy brn, wh-crm, mot, srt, sb pty-biky, sft-sl frm, fr-brit, rthy lstr, wxy, calc 20% MRLST: med-dk gy, dk gy brn, blk ip, sb pty-biky, mod sft-hd, fr-brit, rthy lstr, silty-arg, calc mix, rr inoc frags, rr pyr	85% CHK: lt-med gy, lt-med gy brn, wh-crm, mot, srt, sb pty-biky, sft-sl frm, fr-brit, rthy lstr, wxy, calc 15% MRLST: med-dk gy, dk gy brn, blk ip, sb pty-biky, mod sft-hd, fr-brit, rthy lstr, silty-arg, calc mix, rr inoc frags
MD: 11,010 TVD: 6,281.12 Azimuth: 358.82 Inclination: 89.38 VS: 4,925.49					
MD: 11,105 TVD: 6,282.35 Azimuth: 357.61 Inclination: 89.14 VS: 5,020.44					

6400









med gy, lt-med gy brn, wh-crm, sily-biky, sft-sl frm, fri-brt, rthy  
30% MRLST: med-dk gy, dk sb ply-biky, mod sft-hd, fri-brt, rthy  
sily-arg, calc mix, rr inoc frags, rr bent 35%  
CHK: lt-med gy, lt-med gy brn, wh-crm ip, mot, stri, sb ply-biky, sft-sl frm, fri-brt, rthy  
lstr, wxy, calc, occ intbd w/ marl

65% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-biky, mod sft-hd, fri-brt, rthy lstr, sily-arg, calc mix, rr inoc frags, rr bent 35%  
CHK: lt-med gy, lt-med gy brn, wh-crm ip, mot, stri, sb ply-biky, sft-sl frm, fri-brt, rthy lstr, calc, occ intbd w/ marl

85% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-biky, mod sft-hd, fri-brt, rthy lstr, sily-arg, calc mix, rr inoc frags, rr bent 15%  
CHK: lt-med gy, lt-med gy brn, wh-crm ip, mot, stri, sb ply-biky, sft-sl frm, fri-brt, rthy lstr, calc, occ intbd w/ marl

80% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-biky, mod sft-hd, fri-brt, rthy lstr, sily-arg, calc mix, rr inoc frags, rr bent 20%  
CHK: lt-med gy, lt-med gy brn, wh-crm ip, mot, stri, sb ply-biky, sft-sl frm, fri-brt, rthy lstr, calc, occ intbd w/ marl

5700 80% MRLST: med-dk gy, dk gy brn, sb ply-biky, mod sft-hd, fri-brt, rthy sily-arg, calc mix, rr inoc frags, rr bent 20%  
CHK: lt-med gy, lt-med gy brn, wh-crm ip, mot, stri, sb ply-biky, sft-sl frm, fri-brt, rthy lstr, calc, occ intbd w/ marl

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TVD: 6,284.91  
Azimuth: 358.84  
Inclination: 88.24  
VS: 5,401.13

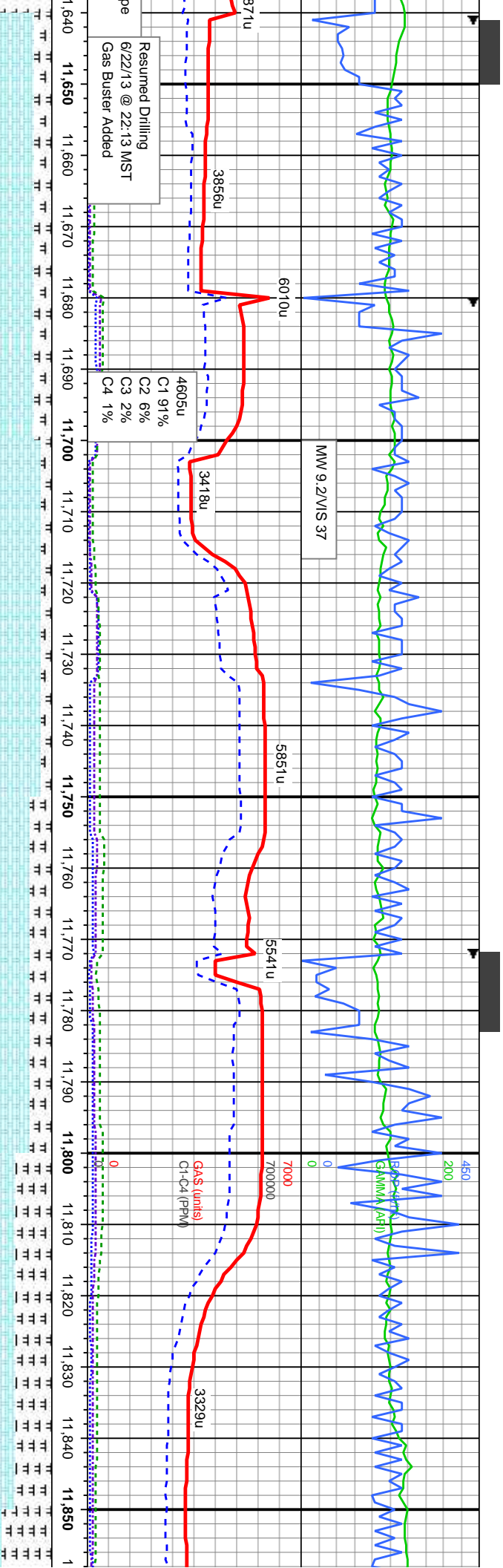
MD: 11,582  
TVD: 6,287  
Azimuth: 0.93  
Inclination: 89.26  
VS: 5,497.1

MD: 11,626  
TVD: 6,287.59  
Azimuth: 0.65  
Inclination: 89.2  
VS: 5,541.09

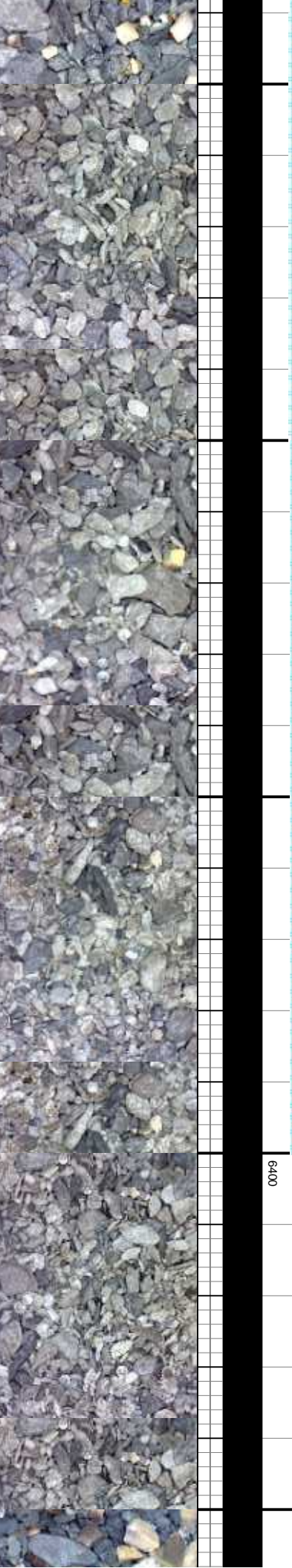
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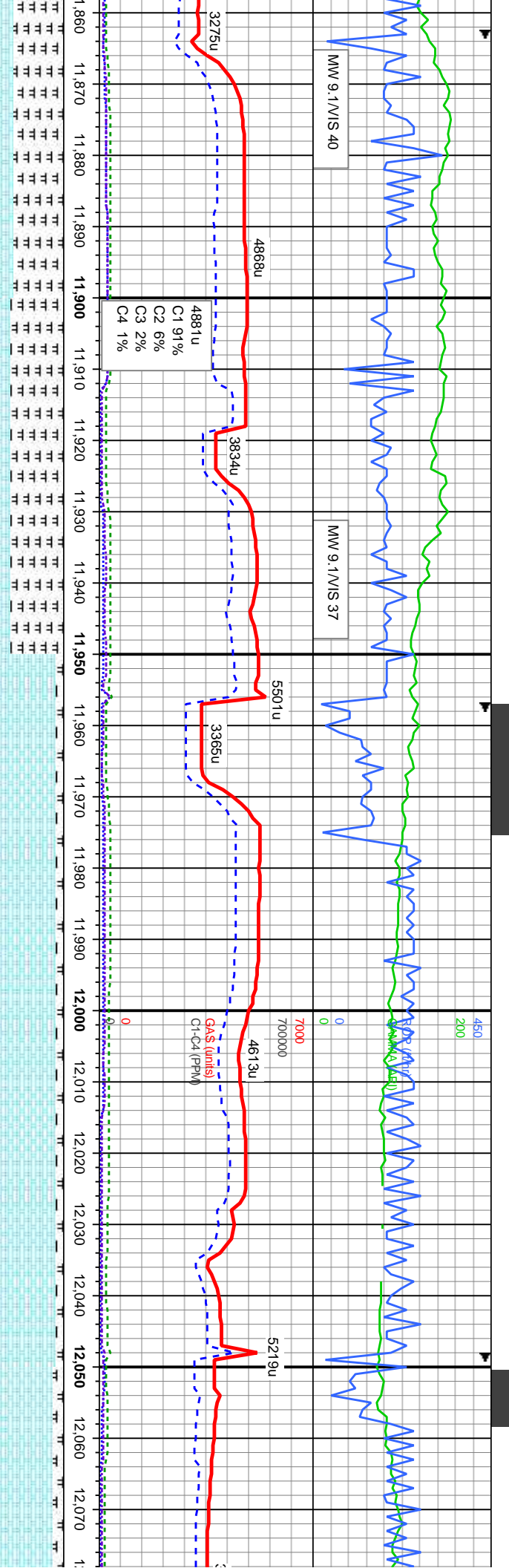




blk ip, lstr	75% CHK: lt-med gy, lt-med gy brn, wh-crm ip, mot, stri, sb ply-blky, sft-fm, fri-brt, rthy lstr, calc 25% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-blky, sl firm-hd, fri-brt, rthy lstr, silty-arg, calc mtx, tr inoc frags	85% CHK: lt-med gy, lt-med gy brn, wh-crm, mot, stri, sb ply-blky, sft-fm, fri-brt, rthy lstr, calc 15% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-blky, sl firm-hd, fri-brt, rthy lstr, silty-arg, calc mtx, tr inoc frags	70% CHK: lt-med gy, lt-med gy brn, wh-crm, mot, stri, sb ply-blky, sft-fm, fri-brt, rthy lstr, calc 30% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-blky, sl firm-hd, fri-brt, rthy lstr, silty-arg, calc mtx, tr inoc frags	5700 50% CHK: lt-med gy, lt-med gy brn, wh-crm ip, mot, stri, sb ply-blky, sft-fm, fri-brt, rthy lstr, calc 50% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-blky, sl firm-hd, fri-brt, rthy lstr, silty-arg, calc mtx, tr inoc frags
		MD: 11,718 ' TVD: 6,288.53 ' Azimuth: 359.84 ° Inclination: 89.63 ° VS: 5,633.08 '		MD: 11,810 ' TVD: 6,288.38 ' Azimuth: 359.9 ° Inclination: 90.56 ° VS: 5,725.08 '







11,860	11,870	11,880	11,890	11,900	11,910	11,920	11,930	11,940	11,950	11,960	11,970	11,980	11,990	12,000	12,010	12,020	12,030	12,040	12,050	12,060	12,070
75% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-bkly, sl frm-hd, fri-brt, rthy lstr, silty-arg, calc mtx, tr inoc frags 25% CHK: lt-med gy, lt-med gy brn, wh-crm ip, mot, sti, sb ply-bkly, sft-frm, fri-brt, rthy lstr, calc, dissim pyr																					
90% CHK: lt-med gy, lt-med gy brn, wh-crm, mot, sti, sb ply-bkly, sft-frm, fri-brt, rthy lstr, calc, dissim pyr 10% MRLST: med-dk gy, dk gy brn, sb ply-bkly, sl frm-hd, fri-brt, rthy lstr, silty-arg, calc mtx, v rr inoc frags, v rr pyr																					
85% CHK: lt-med gy, lt-r wh-crm, mot, sti, sb ply-bkly, sl frm-hd, fri-brt, rthy lstr, wxy, calc, dissim pyr 10% MRLST: med-dk gy, dk gy brn, sb ply-bkly, sl frm-hd, fri-brt, rthy lstr, silty-arg, calc mtx, v rr inoc frags																					

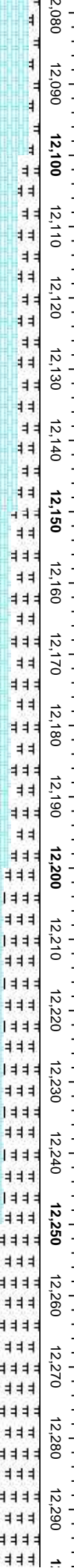
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TV/D: 6,286.35  
Azimuth: 359.75  
Inclination: 91.94  
VS: 5,818.05

MD: 11,995  
TV/D: 6,284.47  
Azimuth: 358.81  
Inclination: 90.4  
VS: 5,910.03

6400





[illegible]







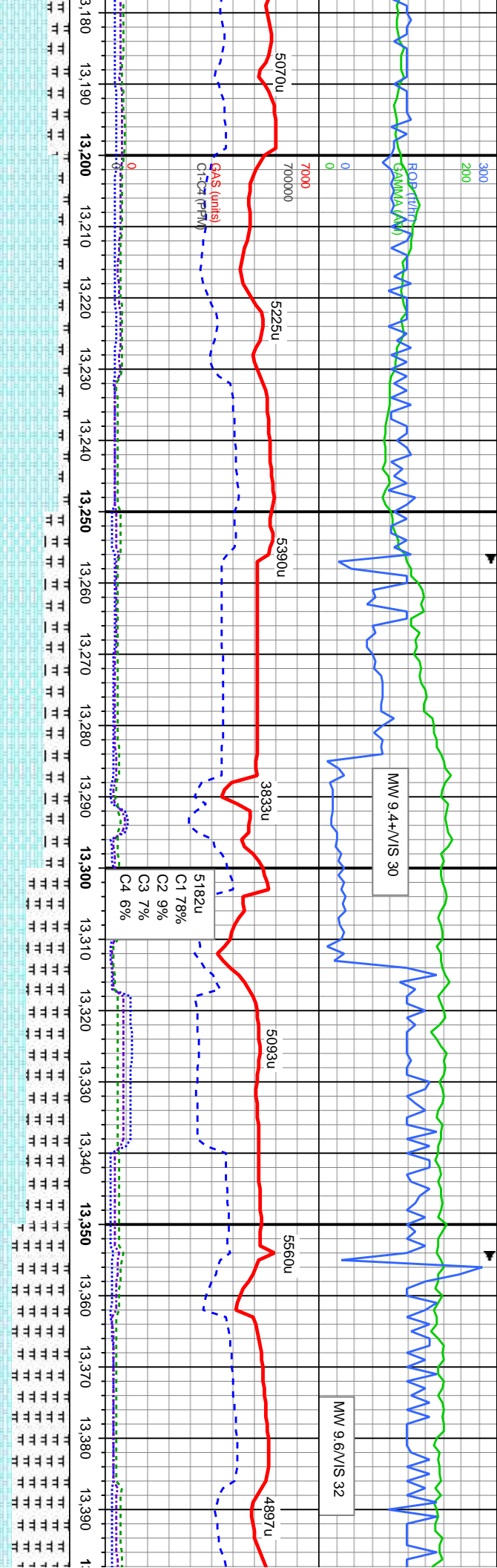








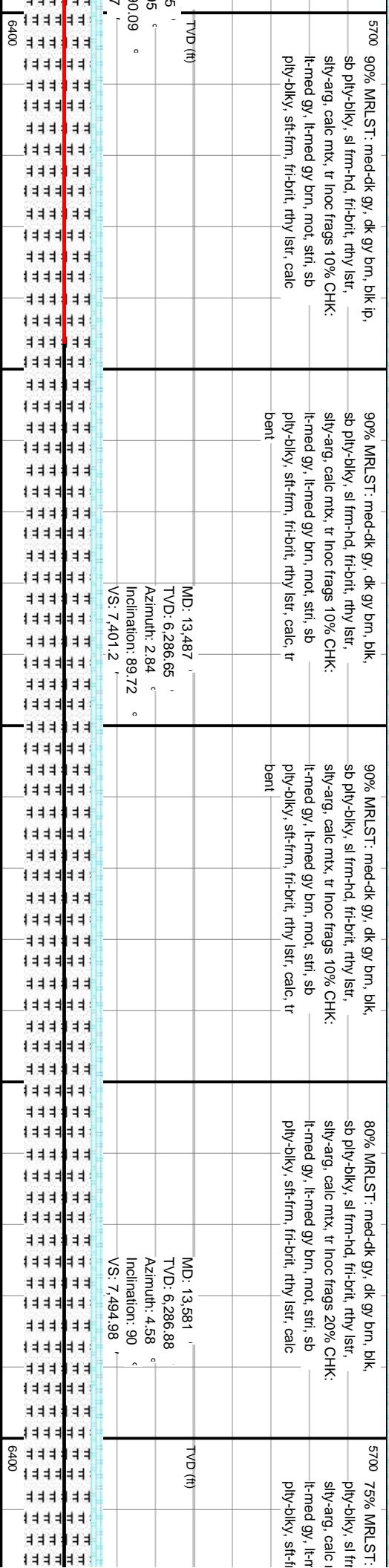




ed gy brn, y-biky, sft-frm, ic 30% MRLST: sb ply-biky, sl y-arg, calc mx,	5700	85% CHK: lt-med gy, lt-med gy brn, wh-crm, mot, stri, sb ply-biky, sft-frm, fri-brit, rthy lstr, wxy, calc 15% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-biky, sl frm-hd, fri-brit, rthy lstr, silty-arg, calc mtx, rr inoc frags	65% CHK: lt-med gy, lt-med gy brn, wh-crm, mot, stri, sb ply-biky, sft-frm, fri-brit, rthy lstr, wxy, calc 35% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-biky, sl frm-hd, fri-brit, rthy lstr, silty-arg, calc mtx, rr inoc frags, rr pyr, rr bent	60% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-biky, sl frm-hd, fri-brit, rthy lstr, silty-arg, calc mx, rr inoc frags 40% CHK: lt-med gy, lt-med gy brn, wh-crm, mot, stri, sb ply-biky, sft-frm, fri-brit, rthy lstr, wxy, calc, rr pyr, rr bent	80% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-biky, sl frm-hd, fri-brit, rthy lstr, silty-arg, calc mx, rr inoc frags 20% CHK: lt-med gy, lt-med gy brn, mot, stri, sb ply-biky, sft-frm, fri-brit, rthy lstr, calc
		TMD: 13.207 TVD: 6.283.49 Azimuth: 1.98 Inclination: 88.05 VS: 7.121.36	MD: 13.300 TVD: 6.285.82 Azimuth: 1.08 Inclination: 89.08 VS: 7.214.29		MD: 13.394 TVD: 6.286 Azimuth: 1.0 Inclination: 9 VS: 7.308.2
				</	



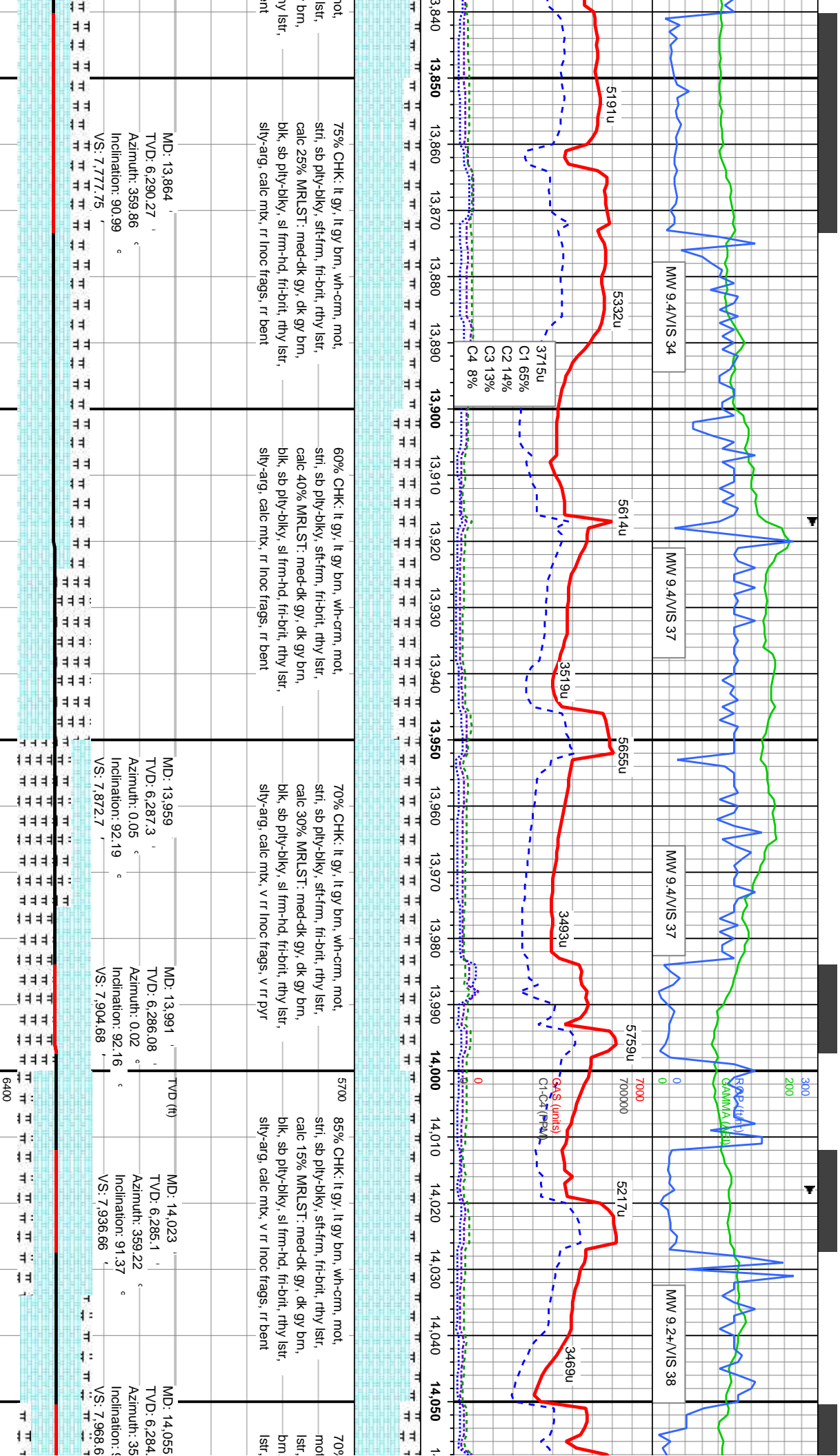




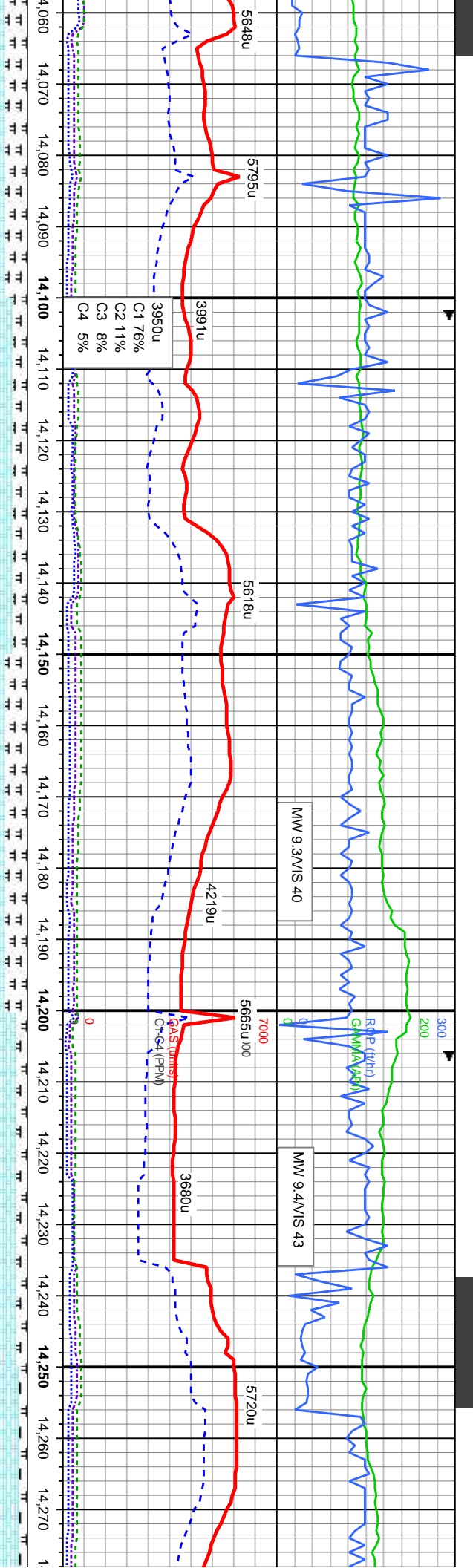












% CHK: lt-med gy, lt gy brn, wh-crm, mot, stri, sb ply-blky, st-frn, fr-brt, rthy  
calc 30% MRLST: med-dk gy, dk gy brn, blk, sb ply-blky, sl frn-hd, fr-brt, rthy  
sily-arg, calc mtx, tr inoc frags

80% CHK: lt gy, lt-med gy brn, wh-crm ip, mot, stri, sb ply-blky, st-frn, fr-brt, rthy  
lstr, calc 20% MRLST: med-dk gy, dk gy brn, blk, sb ply-blky, sl frn-hd, fr-brt, rthy  
lstr, sily-arg, calc mtx, tr inoc frags

80% CHK: lt gy, lt-med gy brn, wh-crm, mot, stri, ply-sb blky, st-frn, fr-brt, rthy  
lstr, calc 20% MRLST: med-dk gy, dk gy brn, blk, sb ply-blky, sl frn-hd, fr-brt, rthy  
lstr, sily-arg, calc mtx, tr inoc frags

5700 85% CHK: lt gy, lt gy brn, wh-crm, mot, stri, ply-sb blky, st-frn, fr-brt, rthy lstr, calc 15% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-blky, sl frn-hd, fr-brt, rthy  
lstr, sily-arg, calc mtx, tr inoc frags

85% CHK: lt gy, lt gy brn, wh-crm, mot, stri, ply-sb blky, st-frn, fr-brt, rthy lstr, calc 15% MRLST: med-dk gy, dk gy brn, blk ip, sb ply-blky, sl frn-hd, fr-brt, rthy  
lstr, sily-arg, calc mtx, tr inoc frags

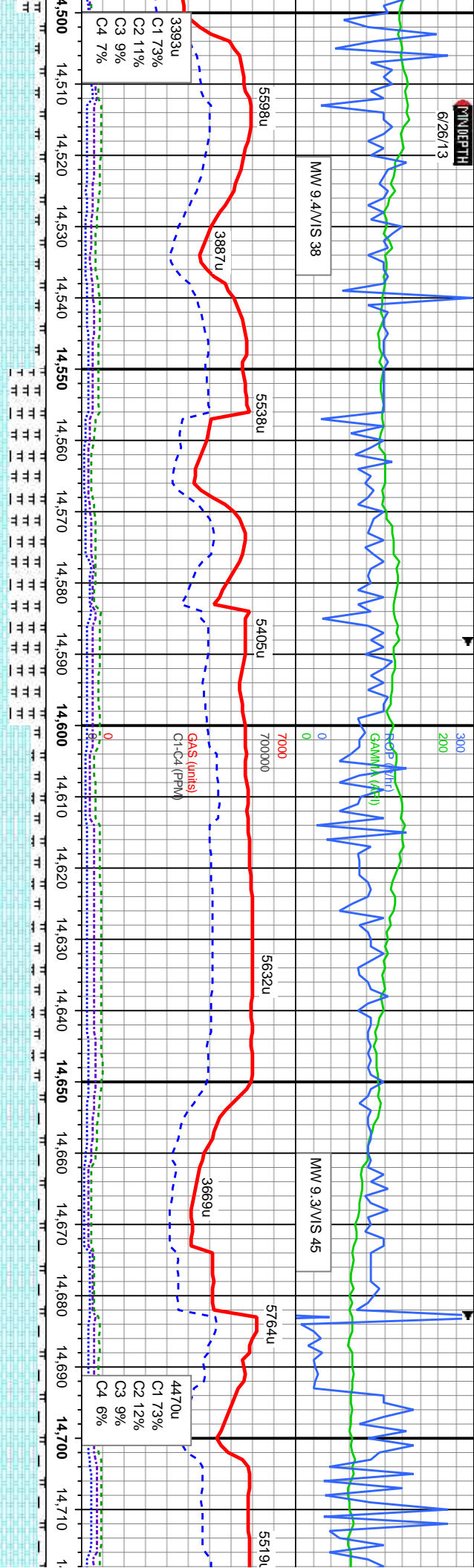
MD: 14,086 TVD: 6,284.29 Azimuth: 358.69 Inclination: 90.12 VS: 7,999.65	MD: 14,149 TVD: 6,284.07 Azimuth: 358.68 Inclination: 90.28 VS: 8,062.64	MD: 14,181 TVD: 6,283.77 Azimuth: 358.54 Inclination: 90.8 VS: 8,094.63	TVD (ft)	MD: 14,245 TVD: 6,282.83 Azimuth: 358.43 Inclination: 90.89 VS: 8,158.6
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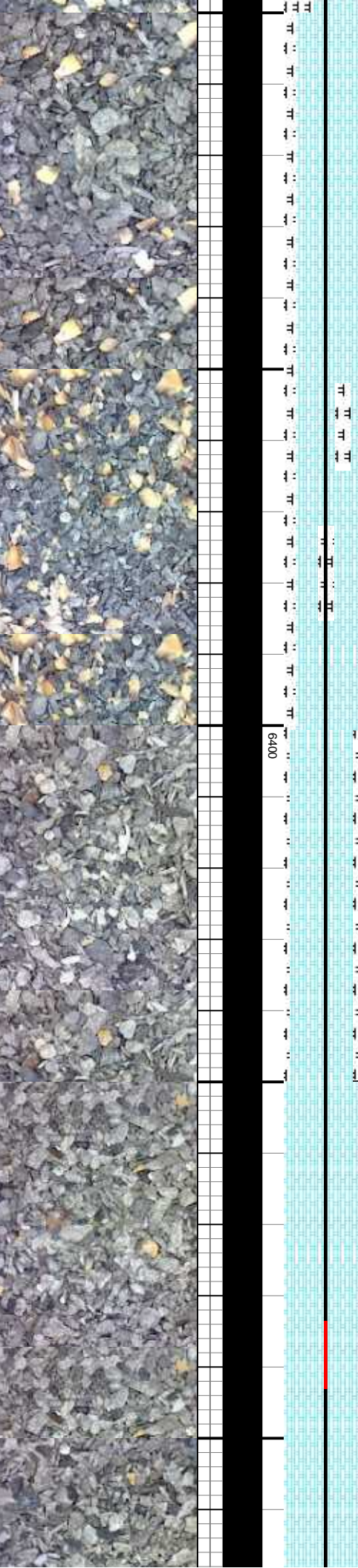




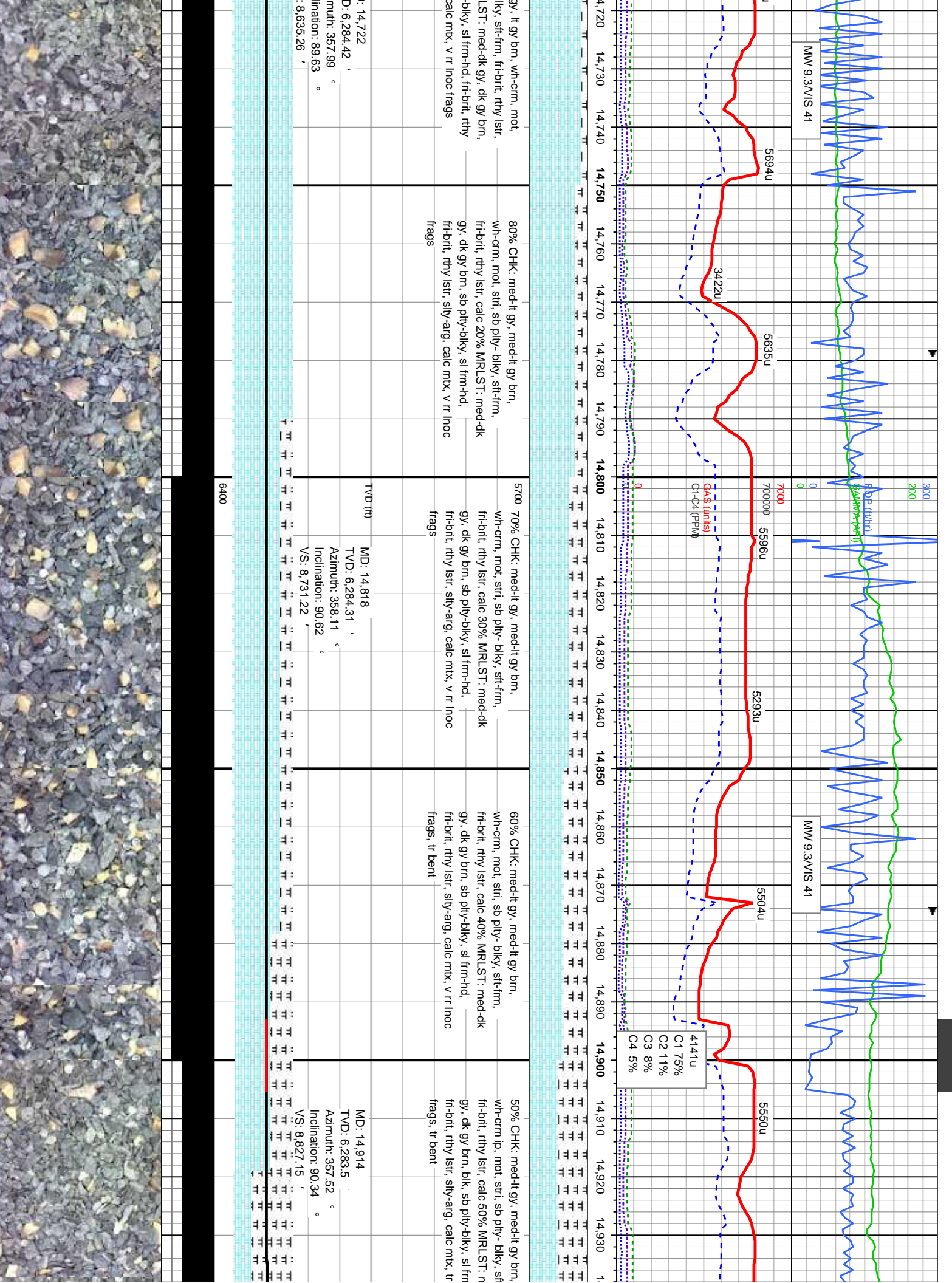




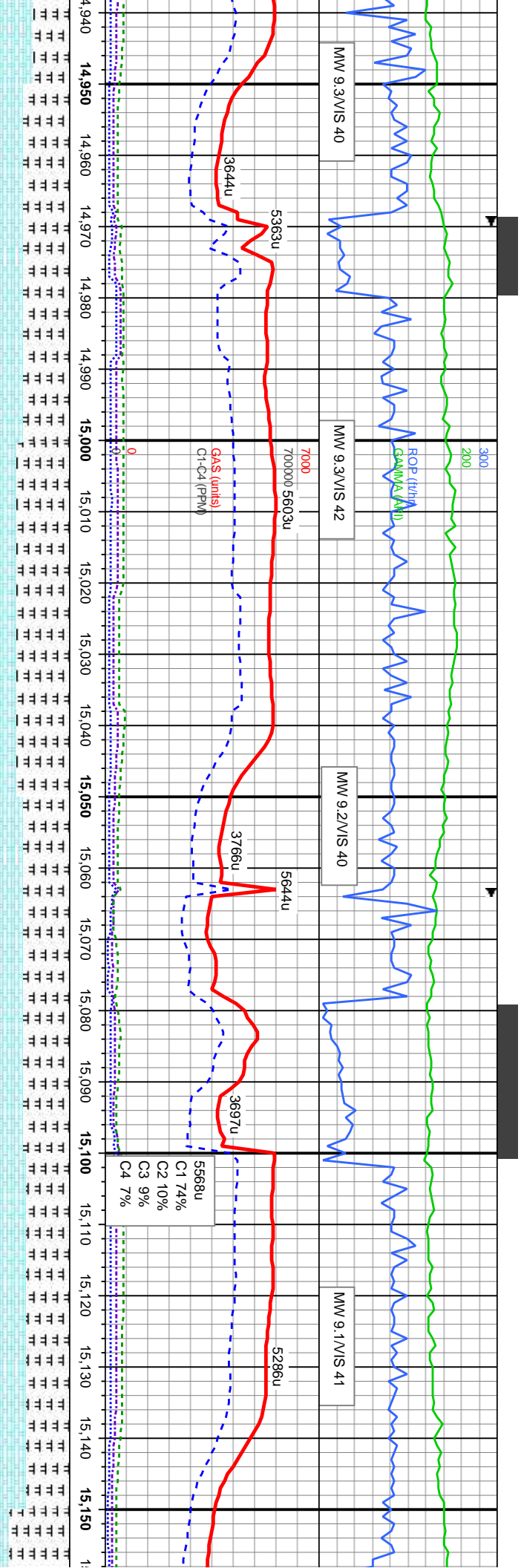
85% CHK: lt-med gy, lt-med gy brn, mot, stri, sb pily-blky, st-frm, fri-brt, rthy istr, calc 15% MRLST: dk gy, dk gy brn, blk ip, sb pily-blky, sl frm-hd, fri-brt, rthy istr, sily-arg, calc mtx, rr inoc frags	50% CHK: lt-med gy, med gy brn, wh-crm ip, mot, stri, sb pily-blky, st-frm, fri-brt, rthy istr, calc 50% MRLST: med-dk gy, dk gy brn, blk, sb pily-blky, sl frm-hd, fri-brt, rthy istr, sily-arg, calc mtx, rr inoc frags	5700 80% CHK: lt gy, lt-med gy brn, wh-crm, mot, stri, sb pily-blky, st-frm, fri-brt, rthy istr, calc 20% MRLST: med-dk gy, dk gy brn, blk, sb pily-blky, sl frm-hd, fri-brt, rthy istr, sily-arg, calc mtx, v rr inoc frags	90% CHK: lt gy, lt gy brn, wh-crm, mot, stri, sb pily-blky, st-frm, fri-brt, rthy istr, calc 10% MRLST: med-dk gy, dk gy brn, blk ip, sb pily-blky, sl frm-hd, fri-brt, rthy istr, sily-arg, calc mtx, vrr inoc frags	90% CHK: lt gy, lt gy brn, wh-crm, mot, stri, sb pily-blky, st-frm, fri-brt, rthy istr, calc 10% MRLST: med-dk gy, dk gy brn, blk ip, sb pily-blky, sl frm-hd, fri-brt, rthy istr, sily-arg, calc mtx, vrr inoc frags
MD: 14,530 TVD: 6,285.54 Azimuth: 357.58 Inclination: 90.28 VS: 8,443.4	MD: 14,626 TVD: 6,284.76 Azimuth: 357.53 Inclination: 90.65 VS: 8,539.32	MD: 14,626 TVD: 6,284.76 Azimuth: 357.53 Inclination: 90.65 VS: 8,539.32	MD: 14,626 TVD: 6,284.76 Azimuth: 357.53 Inclination: 90.65 VS: 8,539.32	MD: 14,626 TVD: 6,284.76 Azimuth: 357.53 Inclination: 90.65 VS: 8,539.32







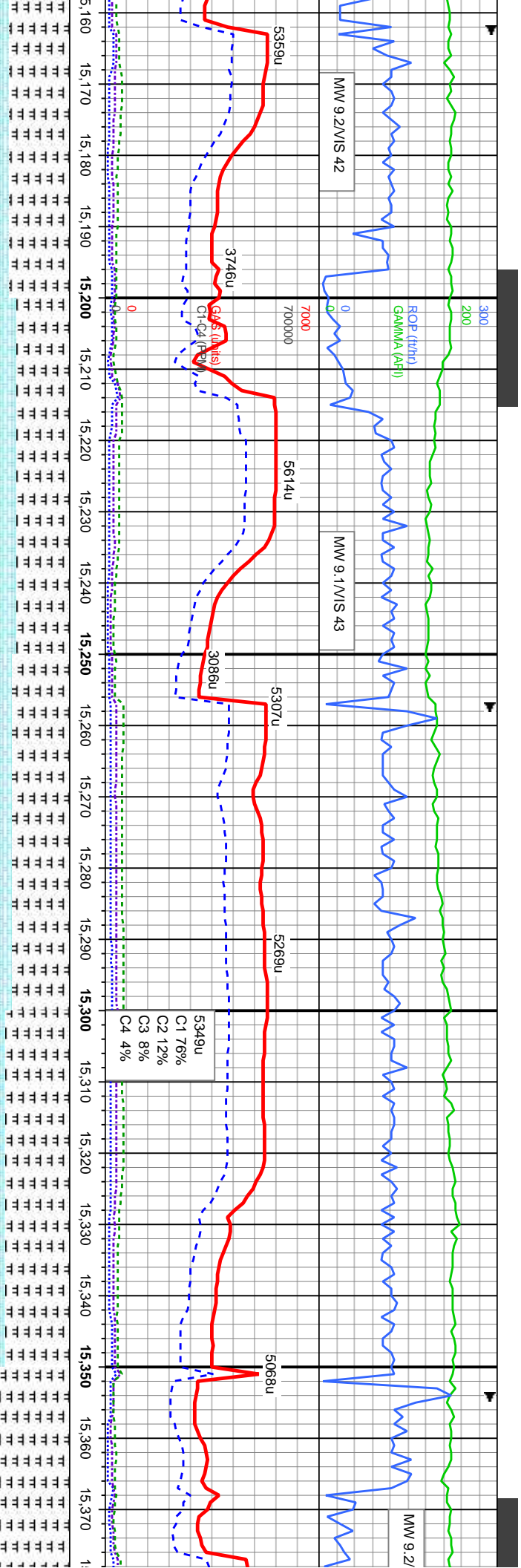




65% MRLST: med-dk gy, dk gy brn, blk, sb ply-blky, sl frm-hd, fri-brt, rthy lstr, sily-arg, calc mix, tr inoc frags 35% CHK: med-lt gy, med-lt gy brn, mot, stri, sb ply- blky, sft-frm, fri-brt, rthy lstr, calc	5700 75% MRLST: med-dk gy, dk gy brn, blk, sb ply-blky, sl frm-hd, fri-brt, rthy lstr, sily-arg, calc mix, tr inoc frags 25% CHK: med-lt gy, med-lt gy brn, mot, stri, sb ply- blky, sft-frm, fri-brt, rthy lstr, calc	65% MRLST: med-dk gy, dk gy brn, blk, sb ply-blky, sl frm-hd, fri-brt, rthy lstr, sily-arg, calc mix, tr inoc frags 35% CHK: med-lt gy, med-lt gy brn, mot, stri, sb ply- blky, sft-frm, fri-brt, rthy lstr, calc	60% MRLST: med-dk gy, dk gy brn, blk, sb ply-blky, sl frm-hd, fri-brt, rthy lstr, sily-arg, calc mix, tr inoc frags 40% CHK: med-lt gy, med-lt gy brn, wh-crm ip, mot, stri, sb ply-blky, sft-frm, fri-brt, rthy lstr, calc, rr bent	85% MRLST: med-dk gy, dk gy brn, blk, sb ply-blky, sl frm-hd, fri-brt, rthy lstr, sily-arg, calc mix, tr inoc frags 35% CHK: med-lt gy, med-lt gy brn, mot, stri, sb ply- blky, sft-frm, fri-brt, rthy lstr, calc
MD: 15.010 TVD: 6,282.72 Azimuth: 357.95 Inclination: 90.59 VS: 8,923.09	MD: 15.105 TVD: 6,282.28 Azimuth: 357.83 Inclination: 89.94 VS: 9,018.03	MD: 15.105 TVD: 6,282.28 Azimuth: 357.83 Inclination: 89.94 VS: 9,018.03	MD: 15.105 TVD: 6,282.28 Azimuth: 357.83 Inclination: 89.94 VS: 9,018.03	MD: 15.105 TVD: 6,282.28 Azimuth: 357.83 Inclination: 89.94 VS: 9,018.03







5700	75% MRLST: med-dk gy, dk gy brn, blk, sb ply-bkly, sl frm-hd, fri-brt, rthy lstr, sily-arg, calc mtx, tr inoc frags 25% CHK: med-lt gy, med-lt gy brn, rr wh-crm, mot, srti, sb ply-bkly, sft-frm, fri-brt, rthy lstr, calc, tr pyr	80% MRLST: med-dk gy, dk gy brn, blk, sb ply-bkly, sl frm-hd, fri-brt, rthy lstr, sily-arg, calc mtx, tr inoc frags 20% CHK: med-lt gy, med-lt gy brn, rr wh-crm, mot, srti, sb ply-bkly, sft-frm, fri-brt, rthy lstr, calc	90% MRLST: dk gy, dk gy brn, blk, sb ply-bkly, sl frm-hd, fri-brt, rthy lstr, sily-arg, calc mtx 10% CHK: med-lt gy, med gy brn, rr wh-crm, mot, srti, sb ply-bkly, sft-frm, fri-brt, rthy lstr, calc, rr inoc frags	100% MRLST: dk gy, dk ply-bkly, sl frm-hd, fri-br sily-arg, calc mtx, tr inoc rr chk
MD: 15,201 TVD: 6,282.48 Azimuth: 357.82 Inclination: 89.35 VS: 9,113.98				
MD: 15,295 TVD: 6,284 Azimuth: 357.63 Inclination: 88.8 VS: 9,207.9				

