



Scale: 5" / 100'
Measured Depth Log

Well Name Postle IC 09-299HNX

Location SWNW SECTION 11 T3N R68W

State COLORADO

Country USA

API Number 05-123-46040-0000

Geographic Region DJ BASIN

Spud Date 3/17/2018

County WELD

Rig Number PRECISION 460

AFE # 18DC0011

Field WATTENBERG

Drilling Completed 3/21/2018

Ground Elevation 4977'

K.B. Elevation 4997'

Logged Interval 6000' MD To 18372' MD

Formation NIOBRARA A CHALK

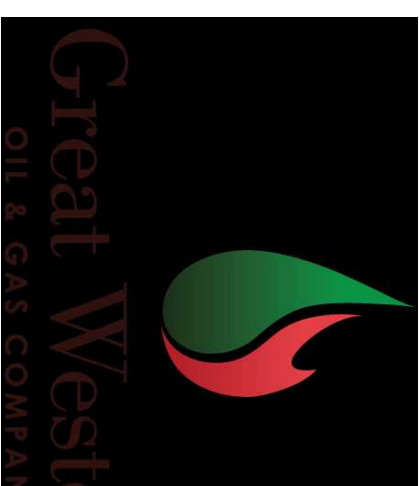
Type of Drilling Fluid OIL BASED MUD

Total Depth 18372' MD

Operator

Company Great Western Oil and Gas

Address 1801 Broadway, Ste 500
Denver, CO 80202



Geologist

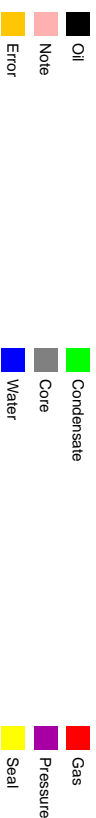
Name Joey Luce, Tim Bright and Gabriel Rubio

Company Terra Guidance

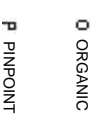
Address 1298 O Road
Loma CO 81524
(970) 260-5408



Color Coding



Oil Show



D DEAD

V VUGGY

● EVEN

○ QUESTIONABLE

Engineering

● SPOTTED STAINING BIT

CASING

Porosity

◀ CONNECTION (LEFT)

E EARTHY

▶ CONNECTION (RIGHT)

D FENESTRAL

CONNECTION GAPS

F FRACTURE

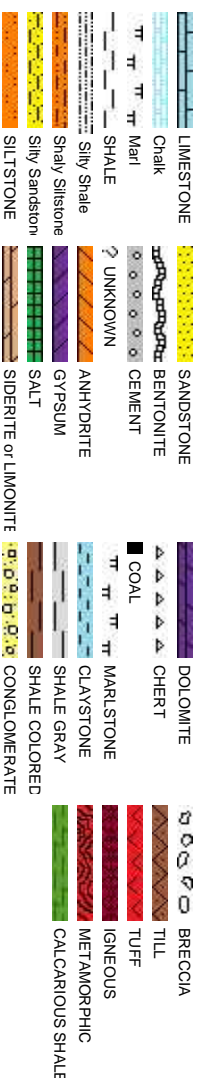
↓ CORE - LOST

X INTERCRYSTALLINE ■ CORE - RECOVERED

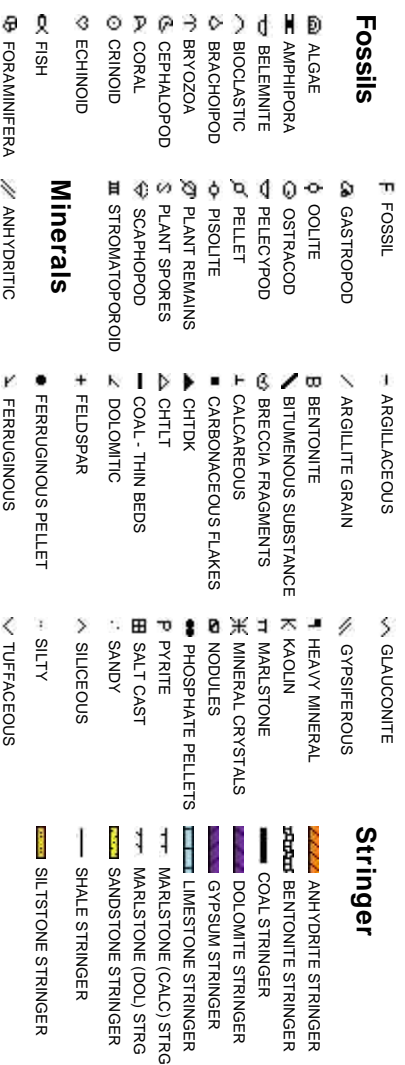
◇ INTEROOLITIC ∴ DST INTERVAL

∩ MOLDIC ↯ FAULT

Rock Types



Accessories



Minerals




Other Symbols

 FORMATION TOP

L LITHOGRAPHIC

Rounding

 GAS SHOW

MX MICROXLN

 MIN DEPTH


A ANGULAR

MS MUDSTONE

 NORMAL FAULT

R ROUNDED

PS PACKSTONE

 OIL SHOW

S SUBANG

WS WACKESTONE

 OVERTURNED STRATA

F SUBRND


Sorting

 REVERSE FAULT

Textures

 SIDEWALL CORE (LEFT)

M MODERATE

 SIDEWALL CORE (RIGHT)


BS BOUNDSTONE

P POOR

 SLIDE


C CHALKY

W WELL


 SURVEY

CX CRYPTOXLN

CALCARIUOS SHALE


 TRIP GAS

E EARTHY

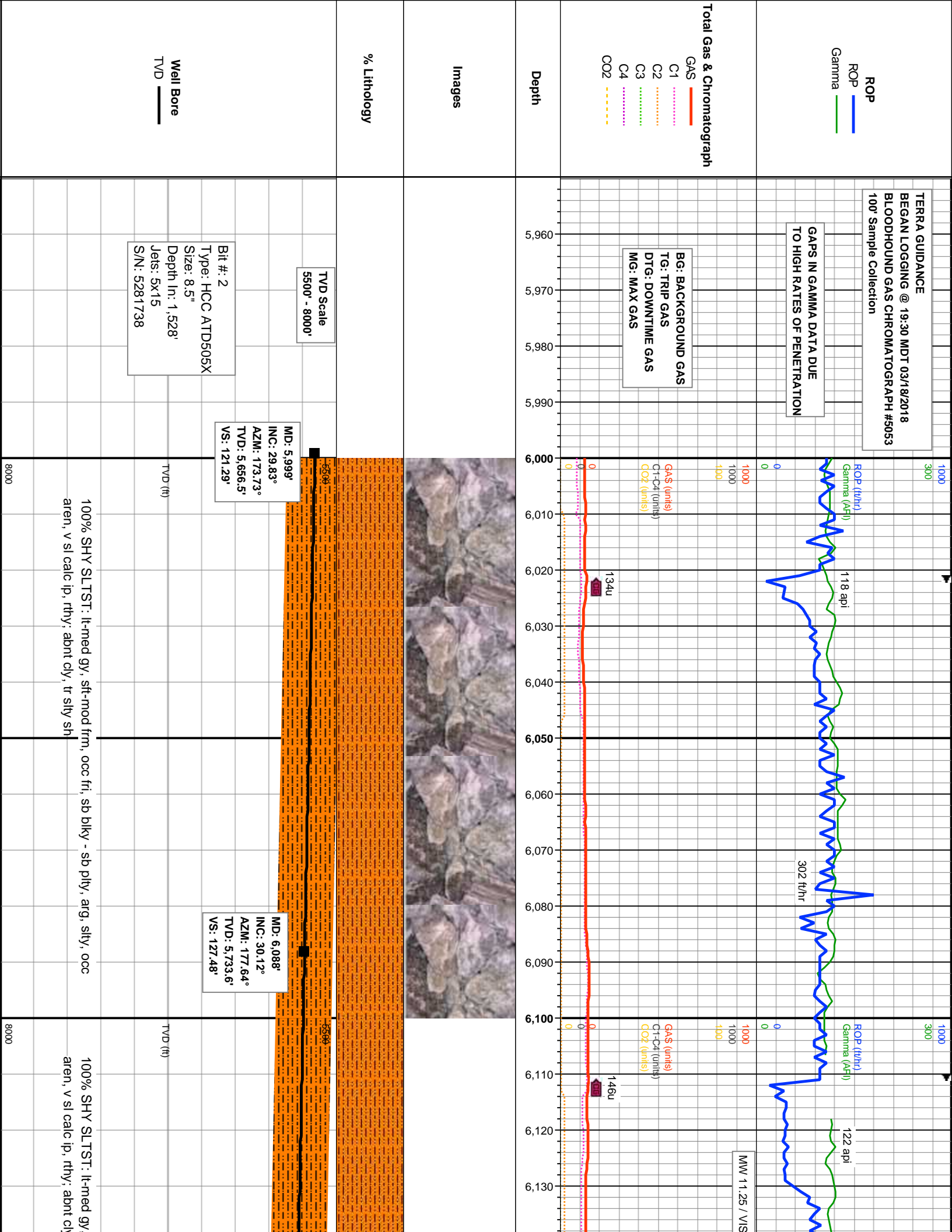
 WIRELINE TESTED - LEFT

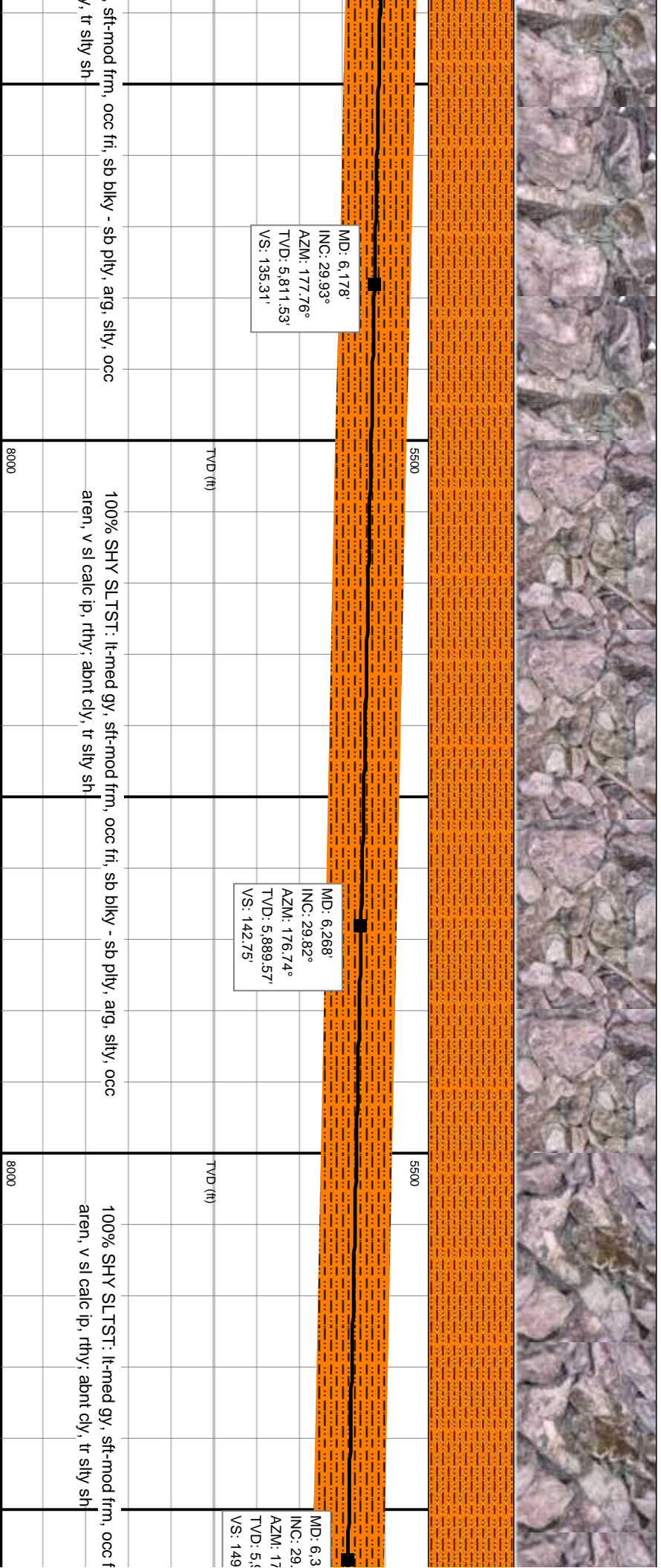
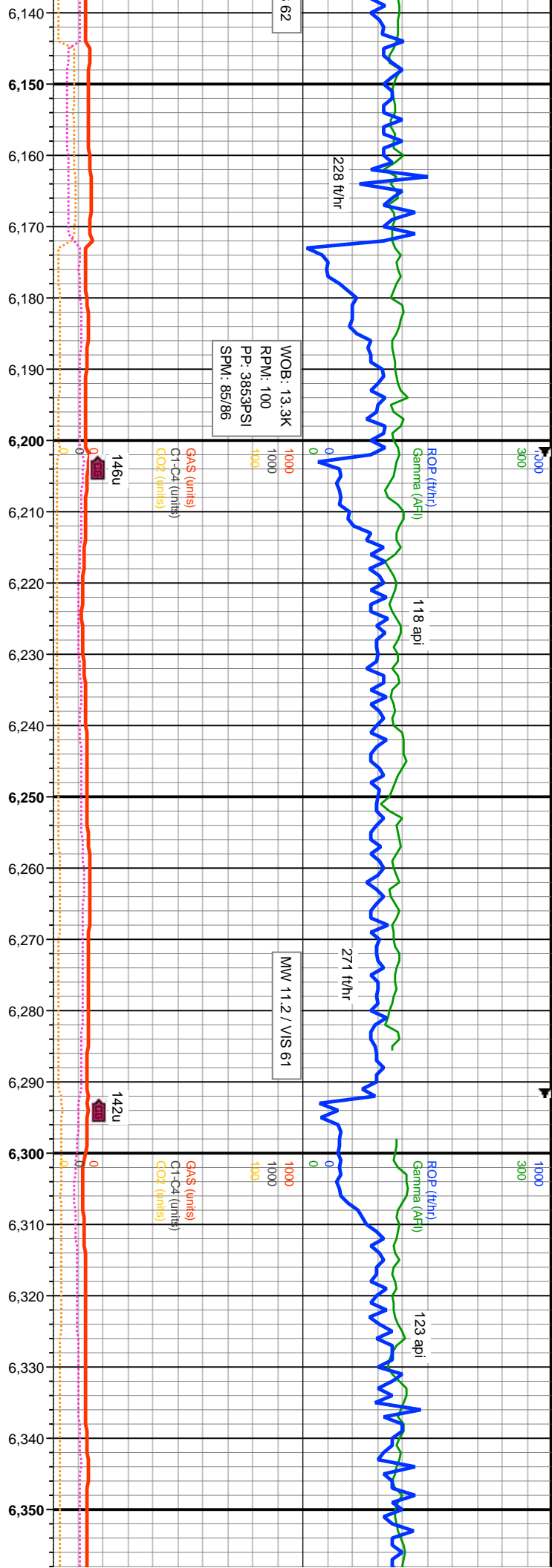
FX FINELYXLN

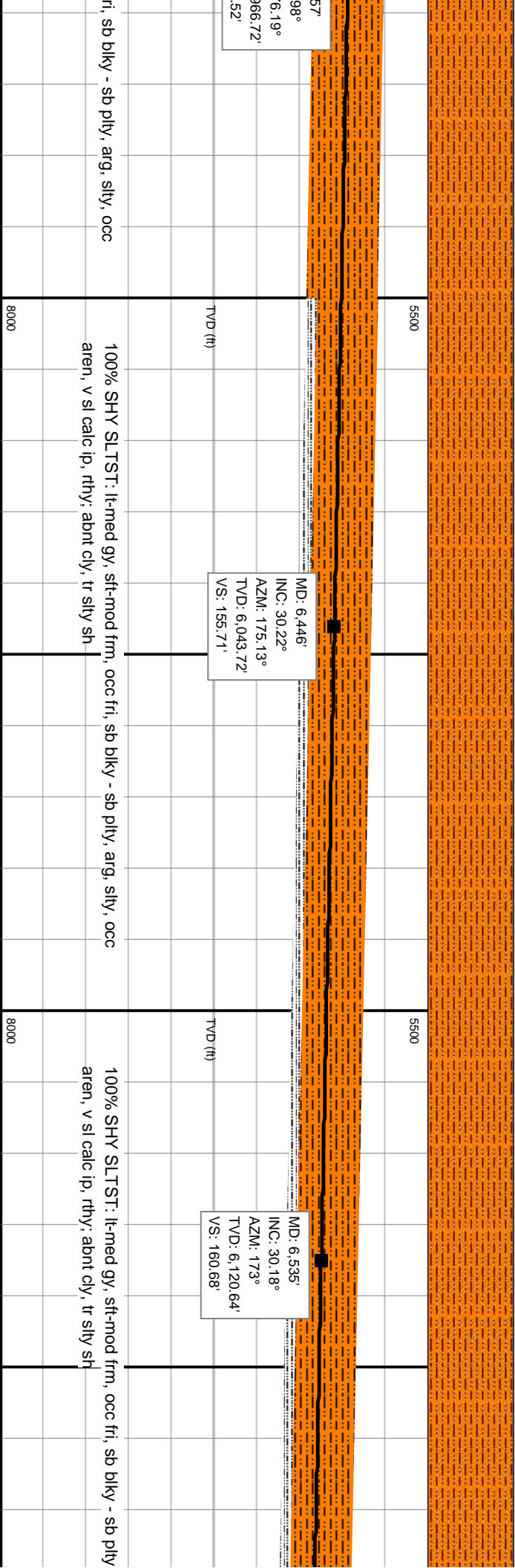
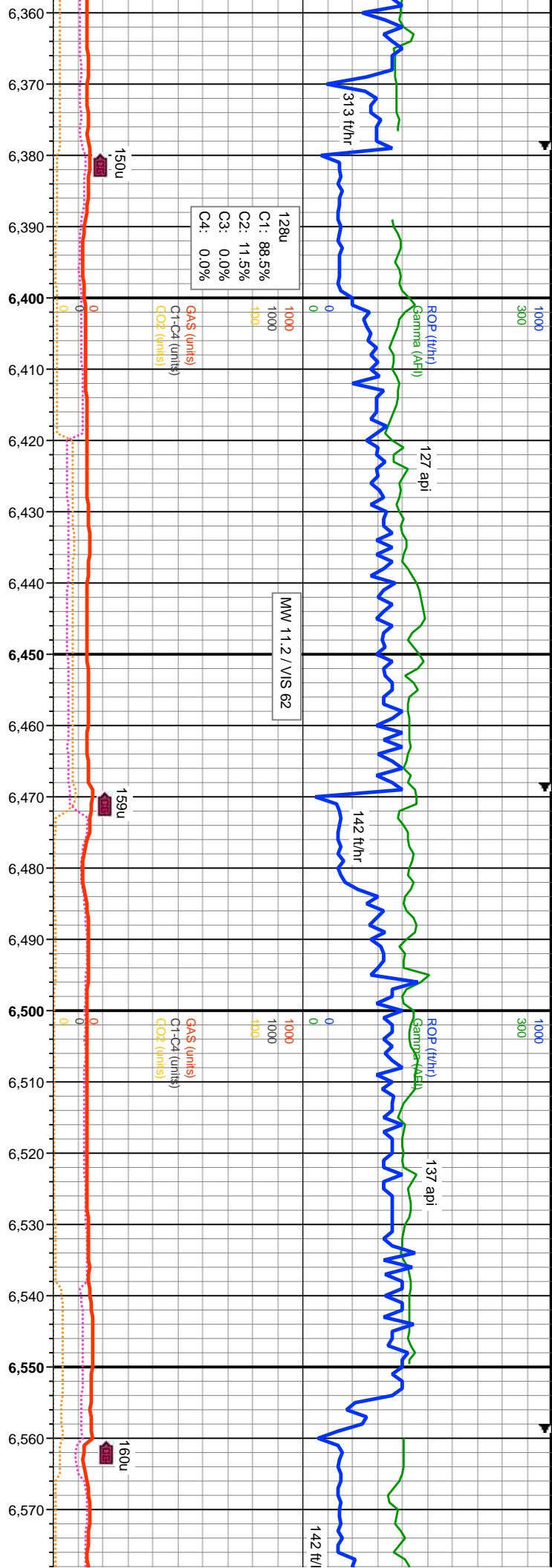
CALCARIOUS SHALE

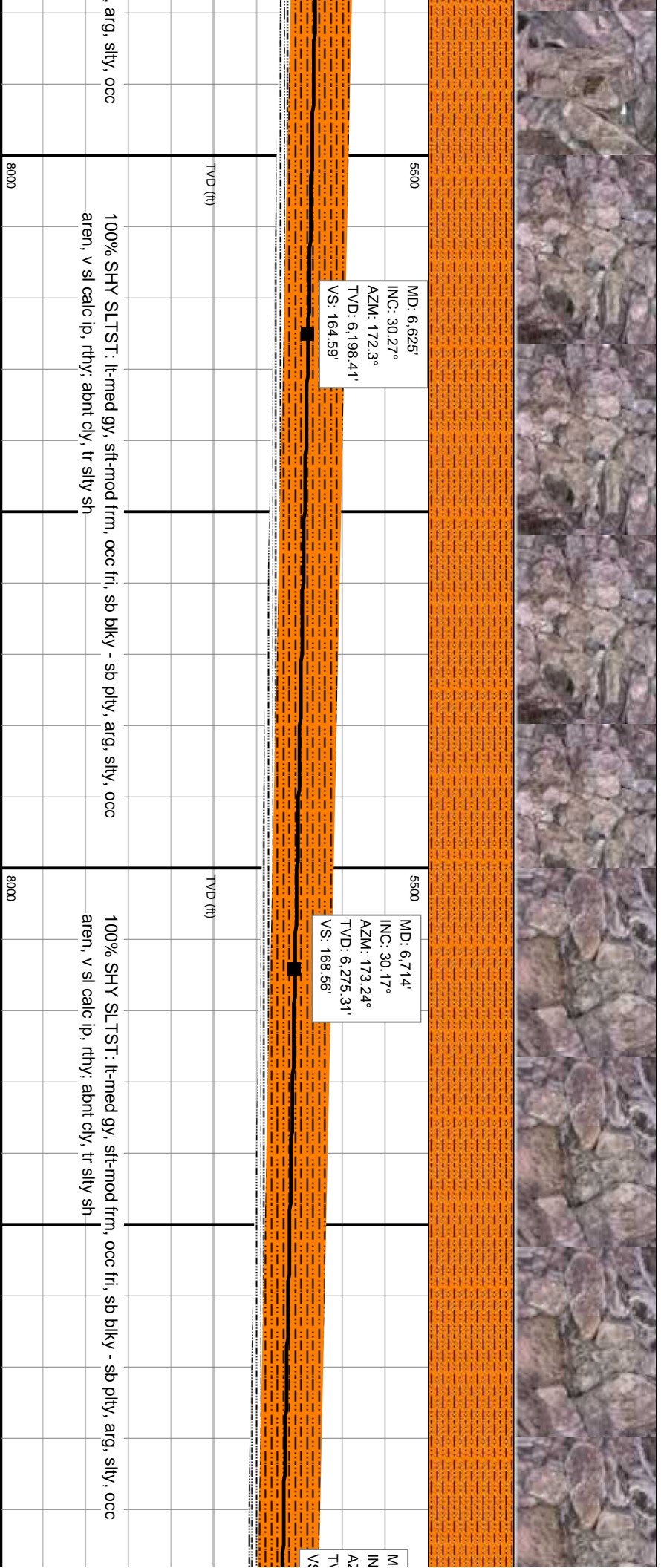
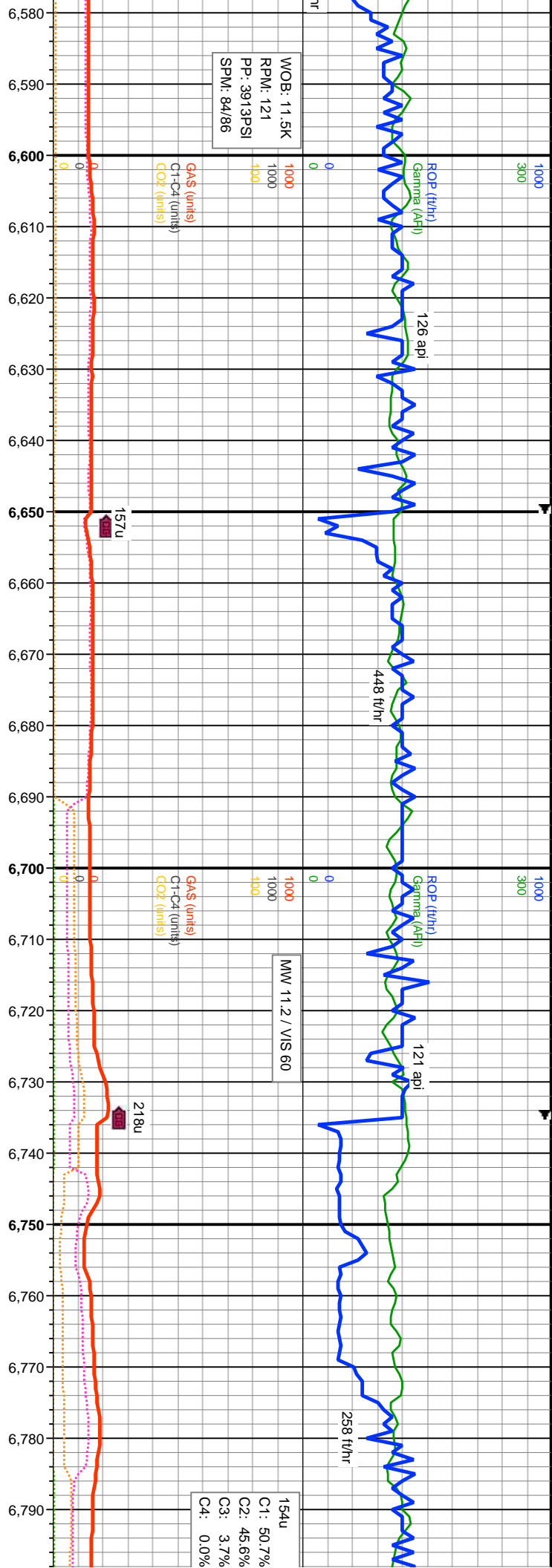
 WIRELINE TESTED - RT

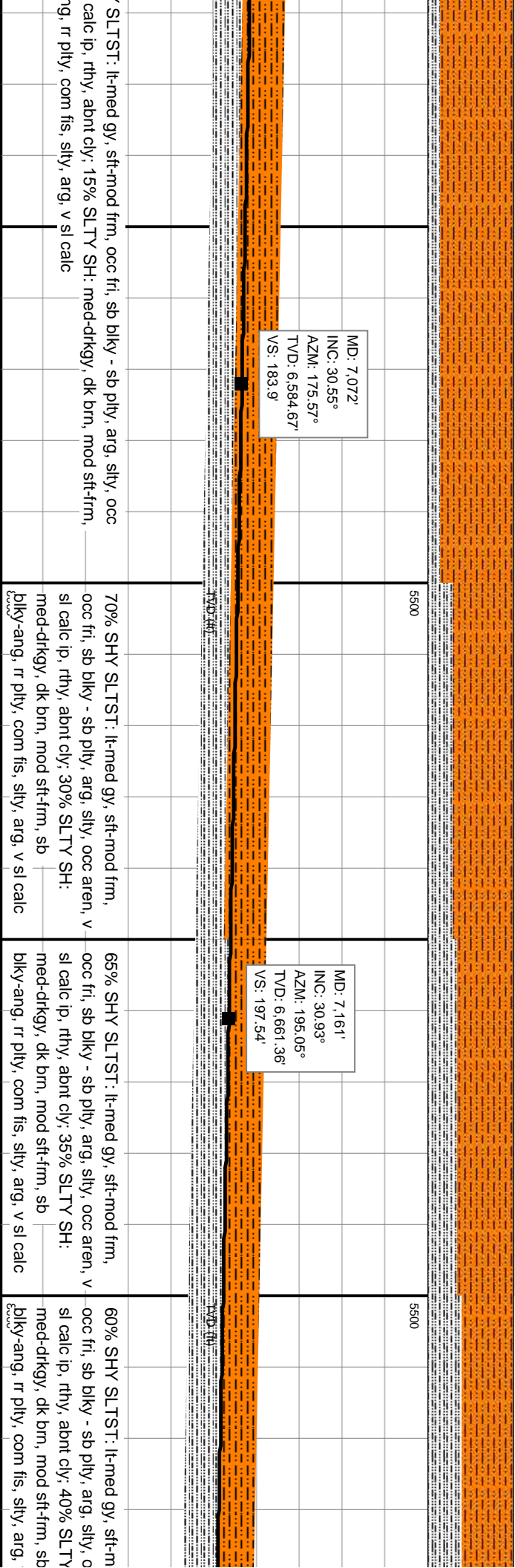
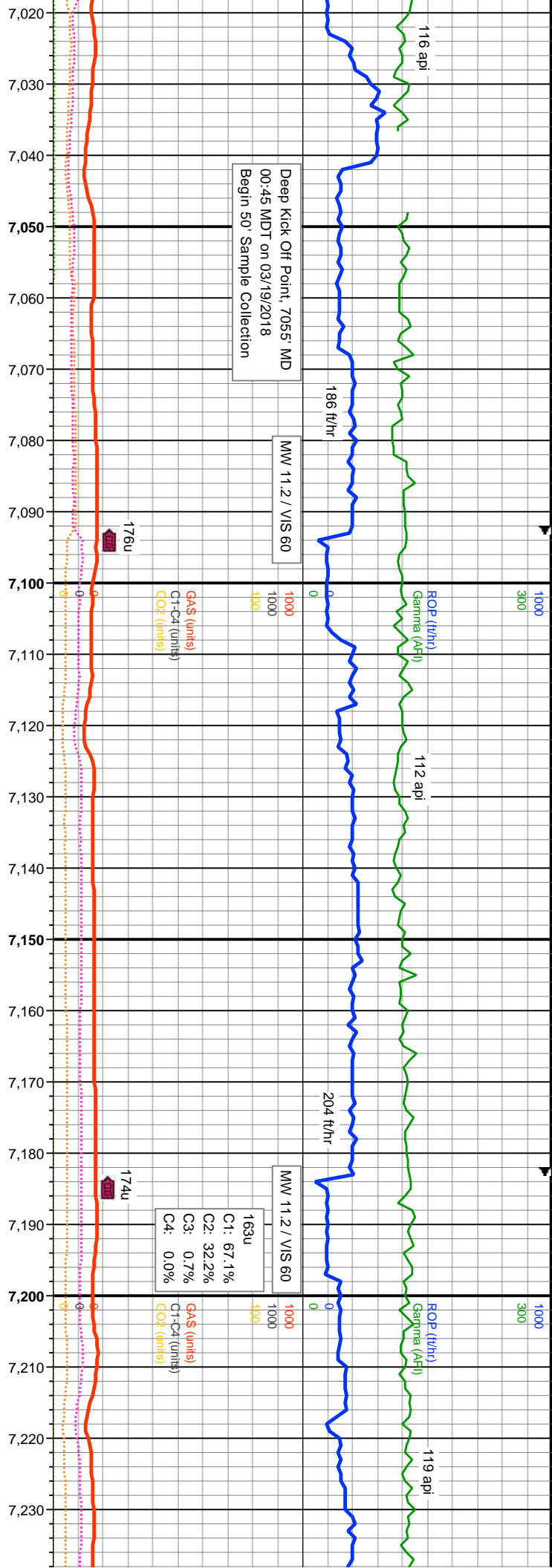
GS GRAINSTONE









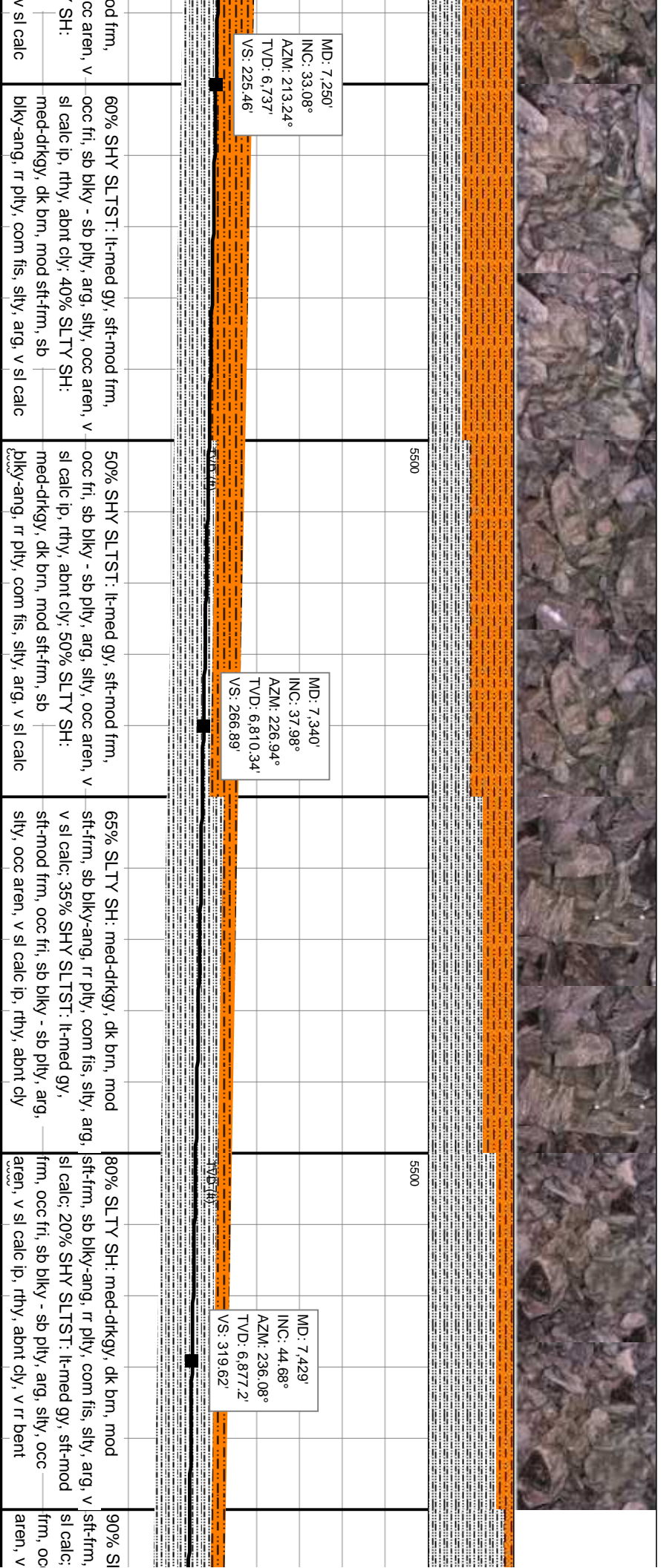
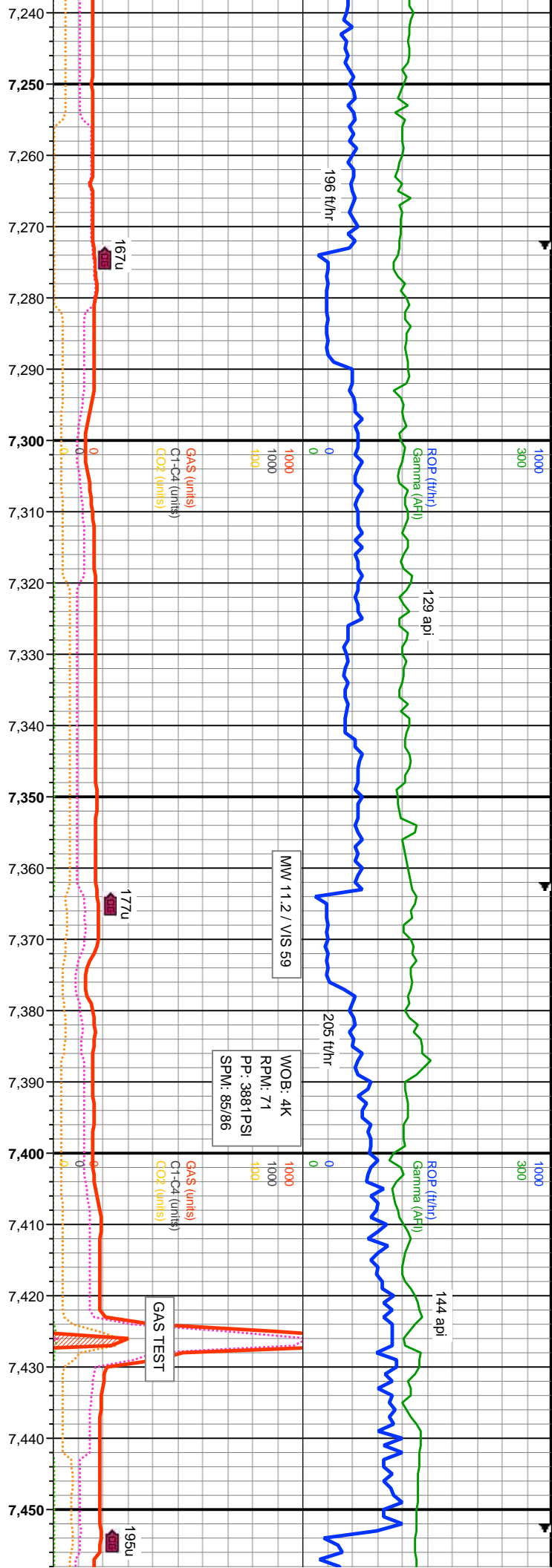


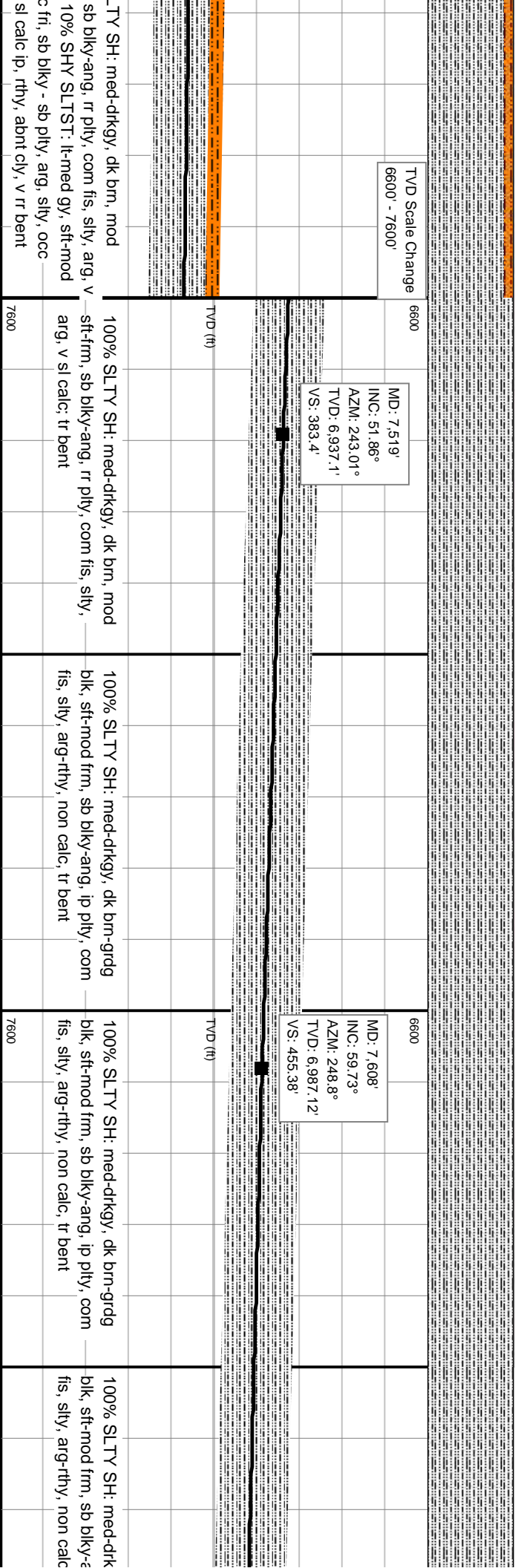
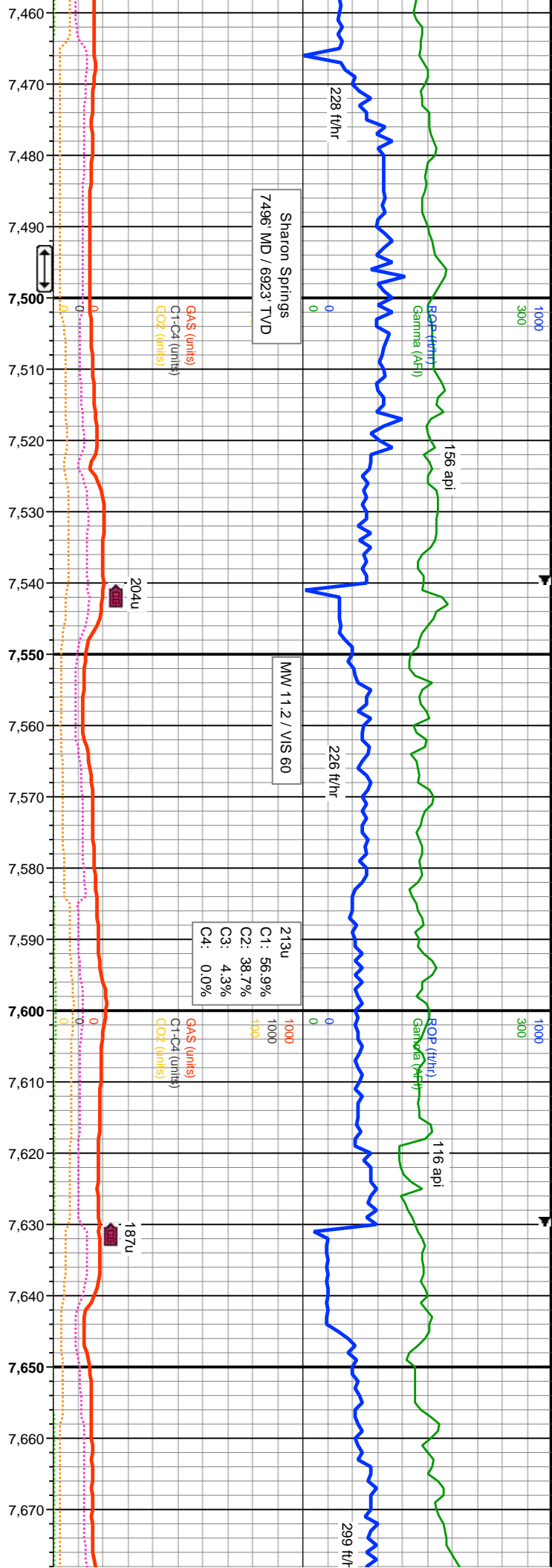
SLTST: lt-med gy, sft-mod frm, occ fri, sb blkly - sb plty, arg, silty, occ calc ip, rthy, abnt cly; 15% SLTY SH: med-drkgy, dk brn, mod sft-frm, v gy, rr plty, com fis, silty, arg, v sl calc

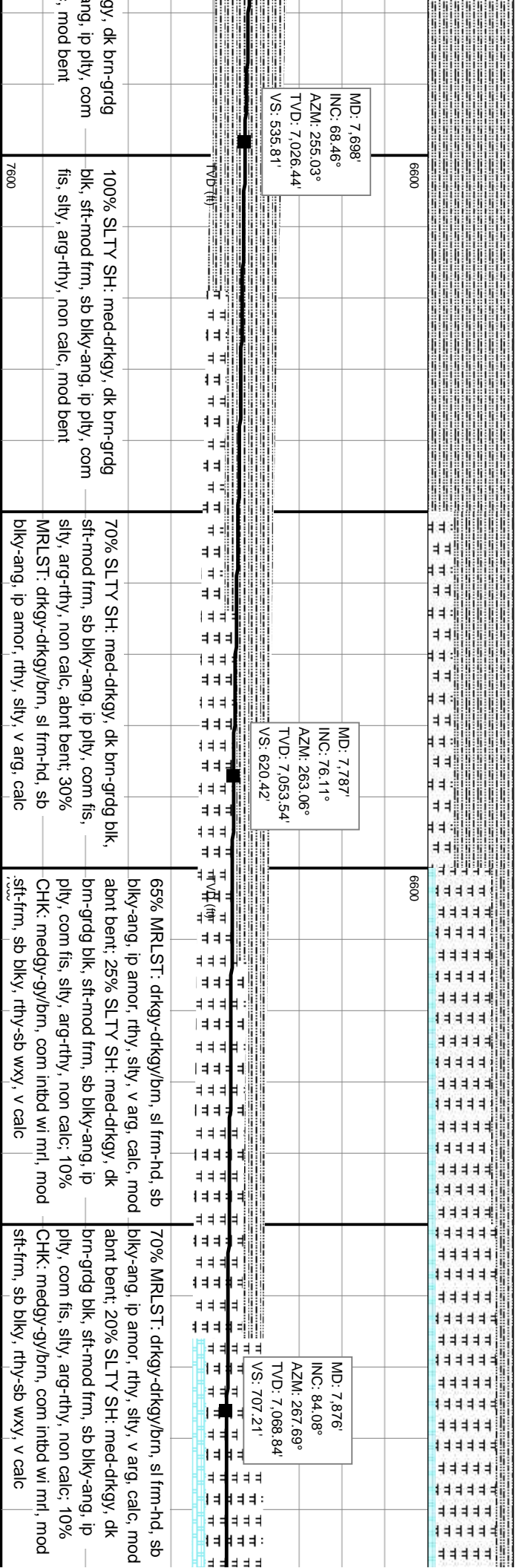
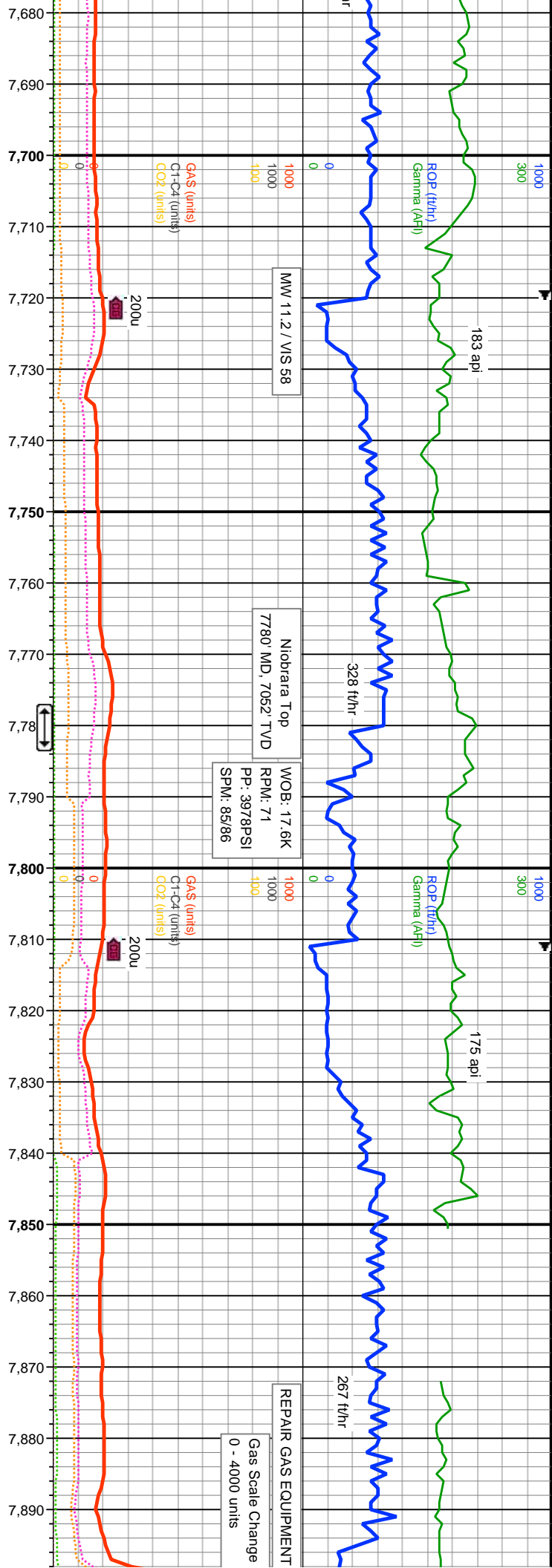
70% SHY SLTST: lt-med gy, sft-mod frm, occ fri, sb blkly - sb plty, arg, silty, occ aren, v sl calc ip, rthy, abnt cly; 30% SLTY SH: med-drkgy, dk brn, mod sft-frm, sb blkly-ang, rr plty, com fis, silty, arg, v sl calc

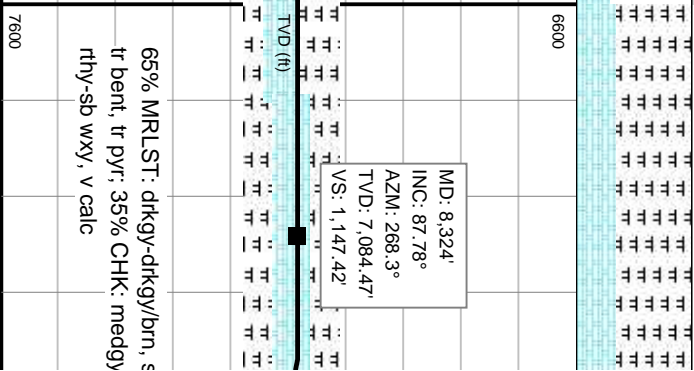
65% SHY SLTST: lt-med gy, sft-mod frm, occ fri, sb blkly - sb plty, arg, silty, occ aren, v sl calc ip, rthy, abnt cly; 35% SLTY SH: med-drkgy, dk brn, mod sft-frm, sb blkly-ang, rr plty, com fis, silty, arg, v sl calc

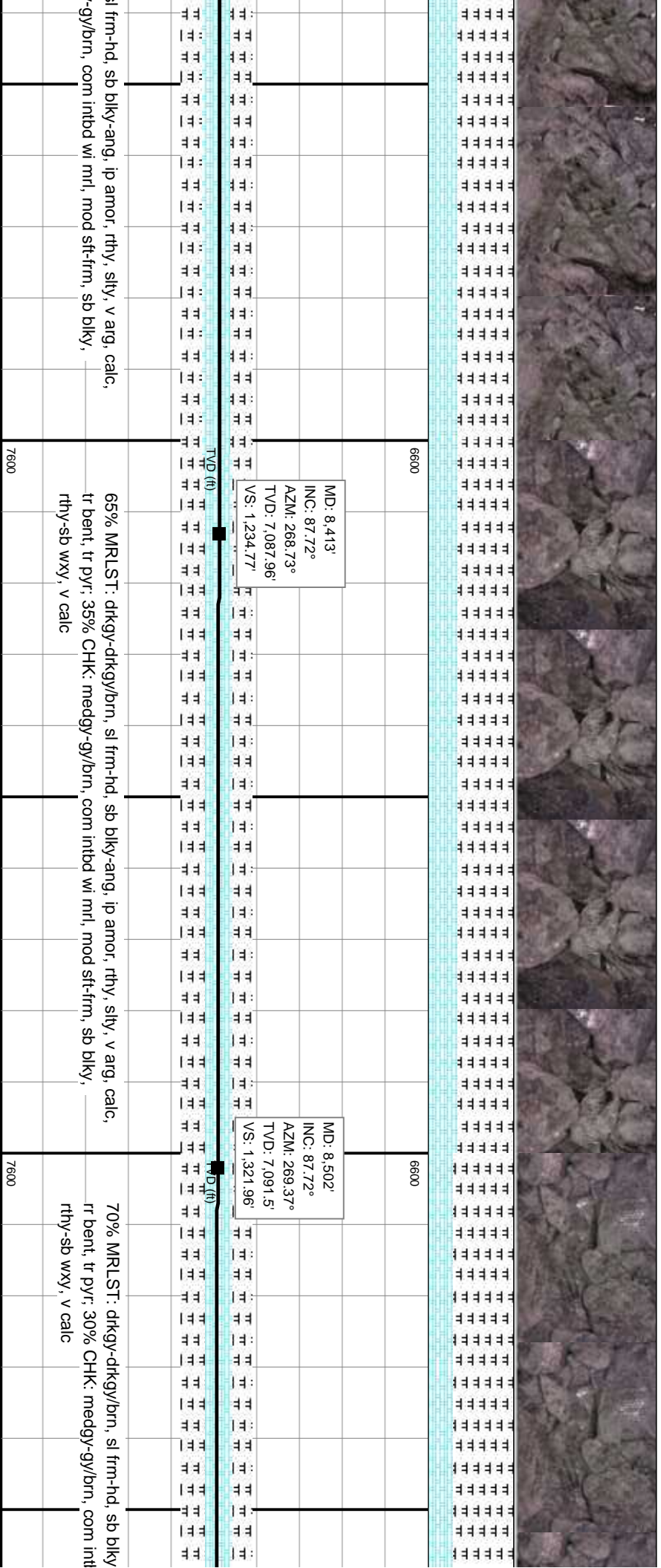
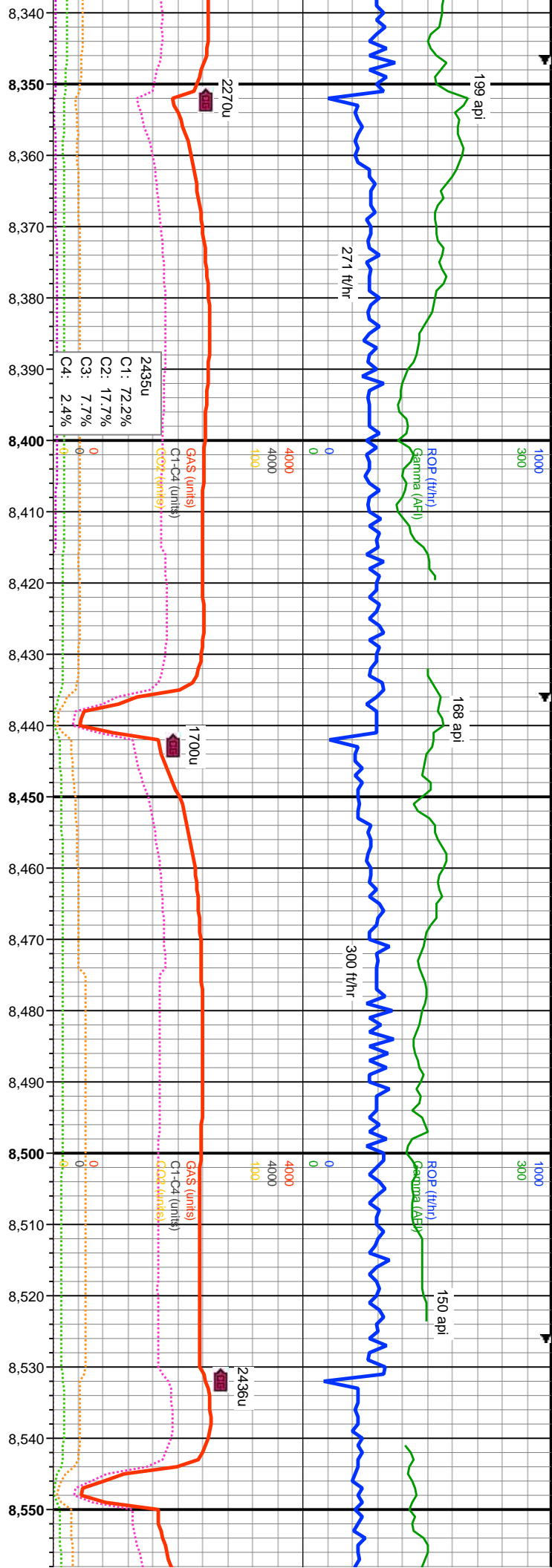
60% SHY SLTST: lt-med gy, sft-m occ fri, sb blkly - sb plty, arg, silty, o sl calc ip, rthy, abnt cly; 40% SLTY med-drkgy, dk brn, mod sft-frm, sb blkly-ang, rr plty, com fis, silty, arg,

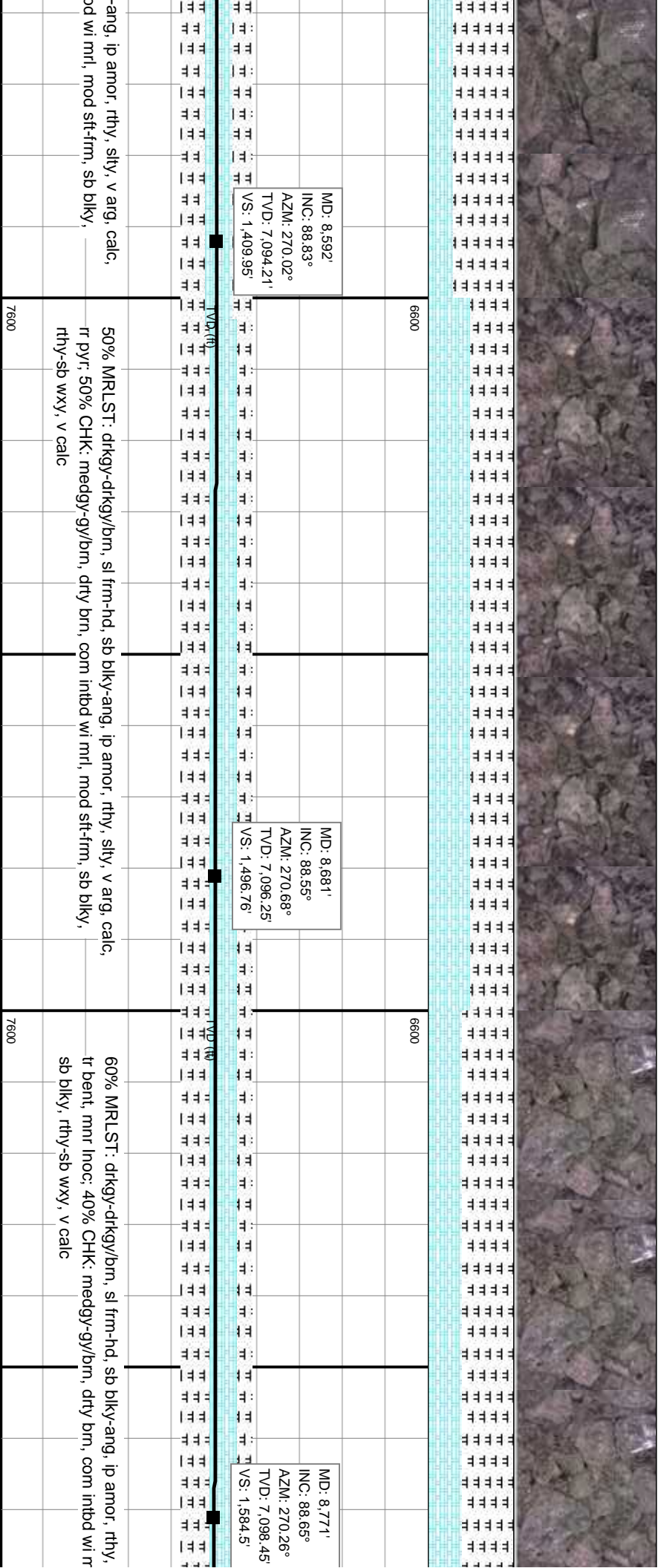
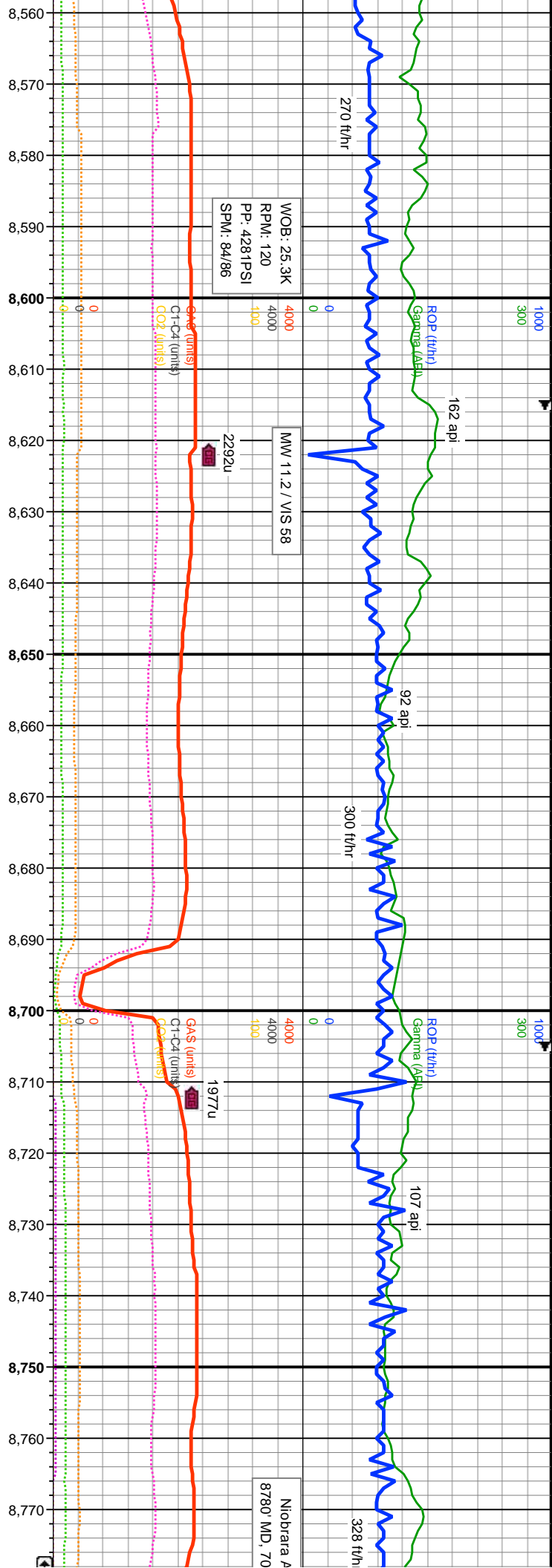


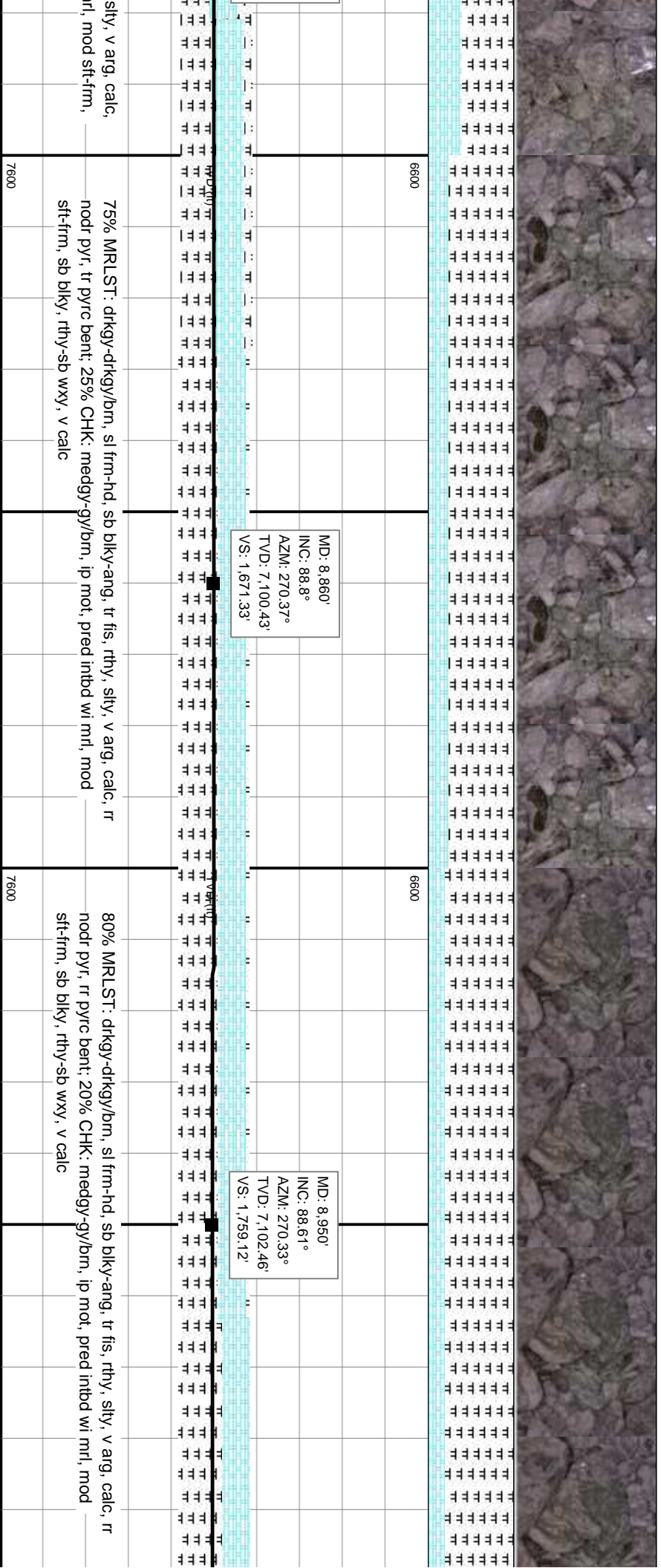
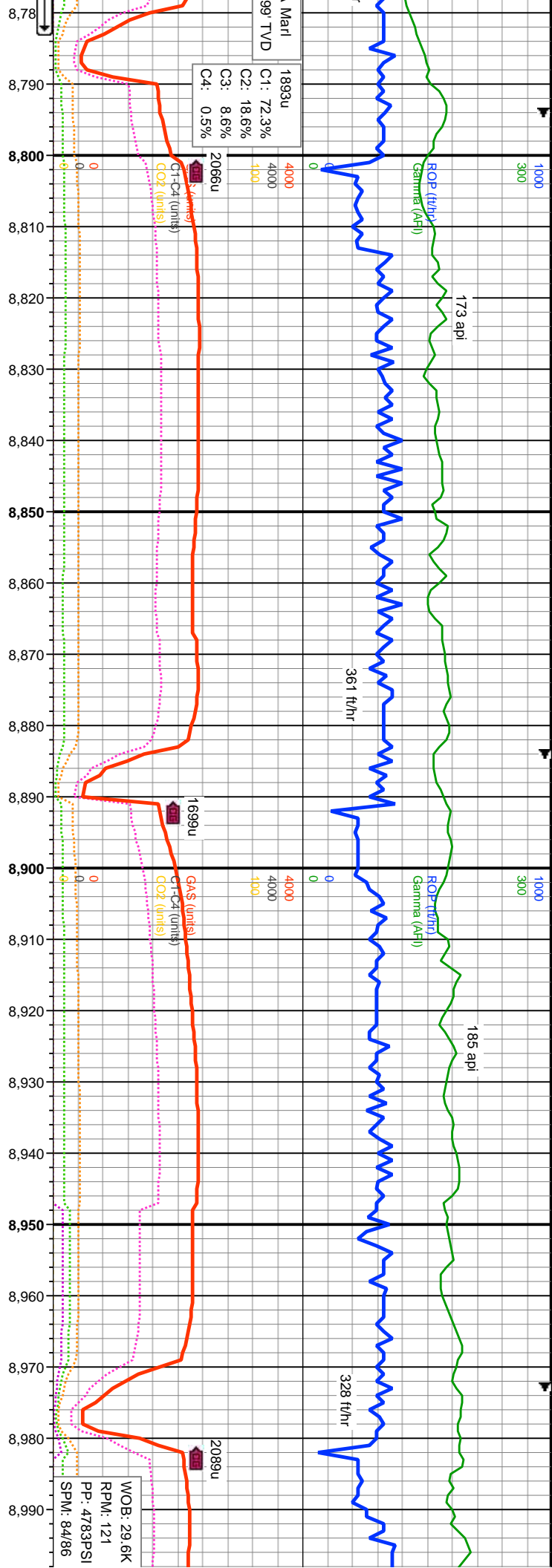


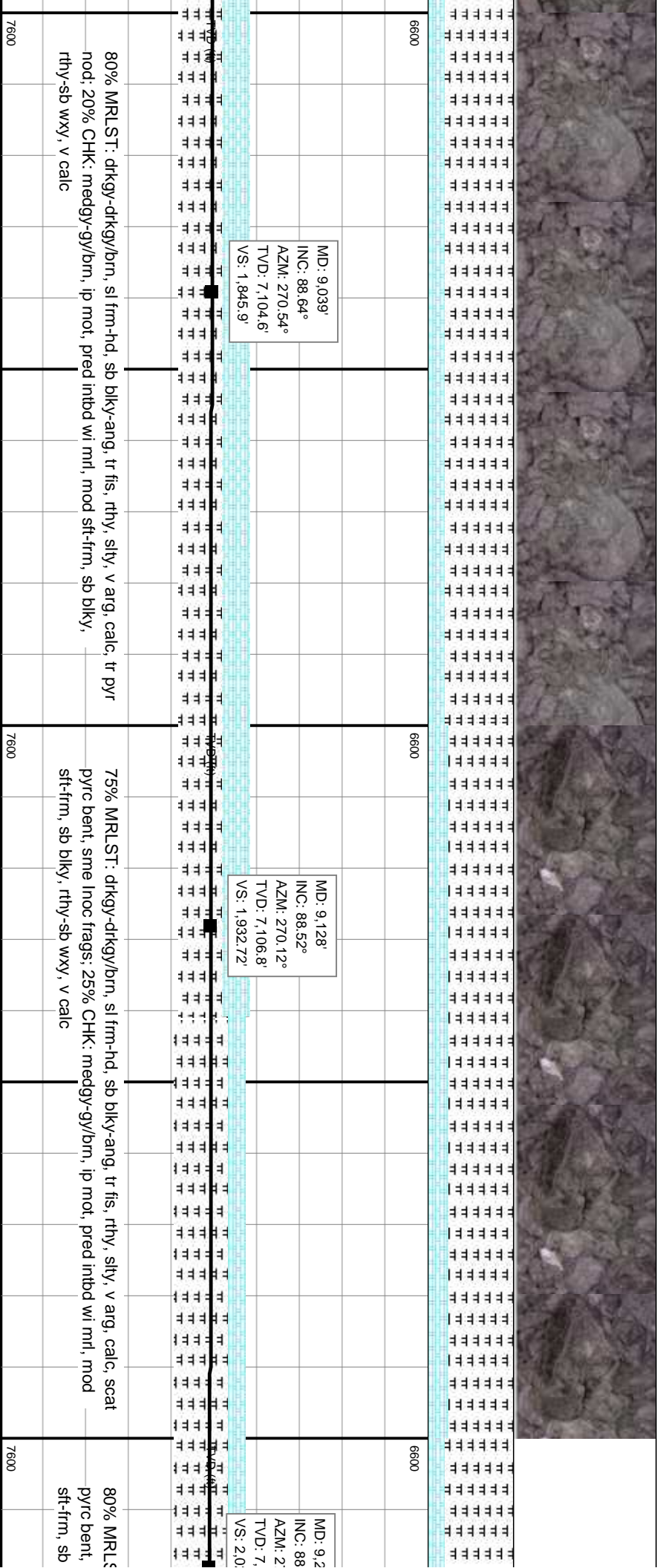
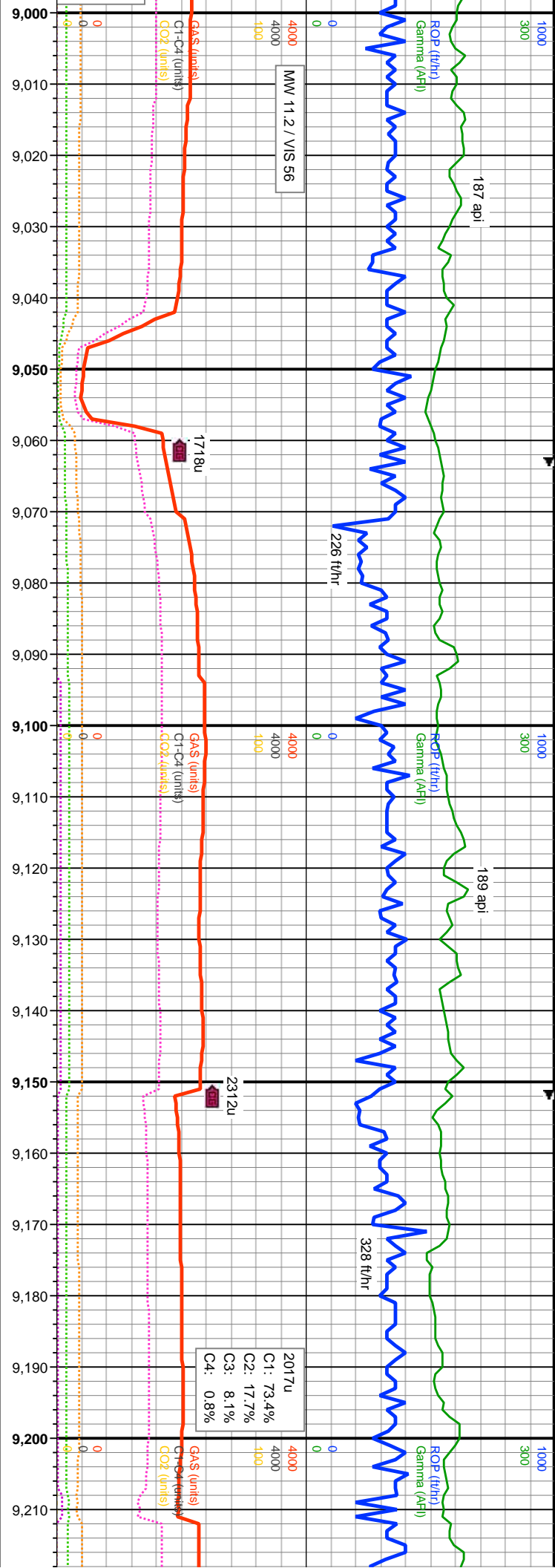


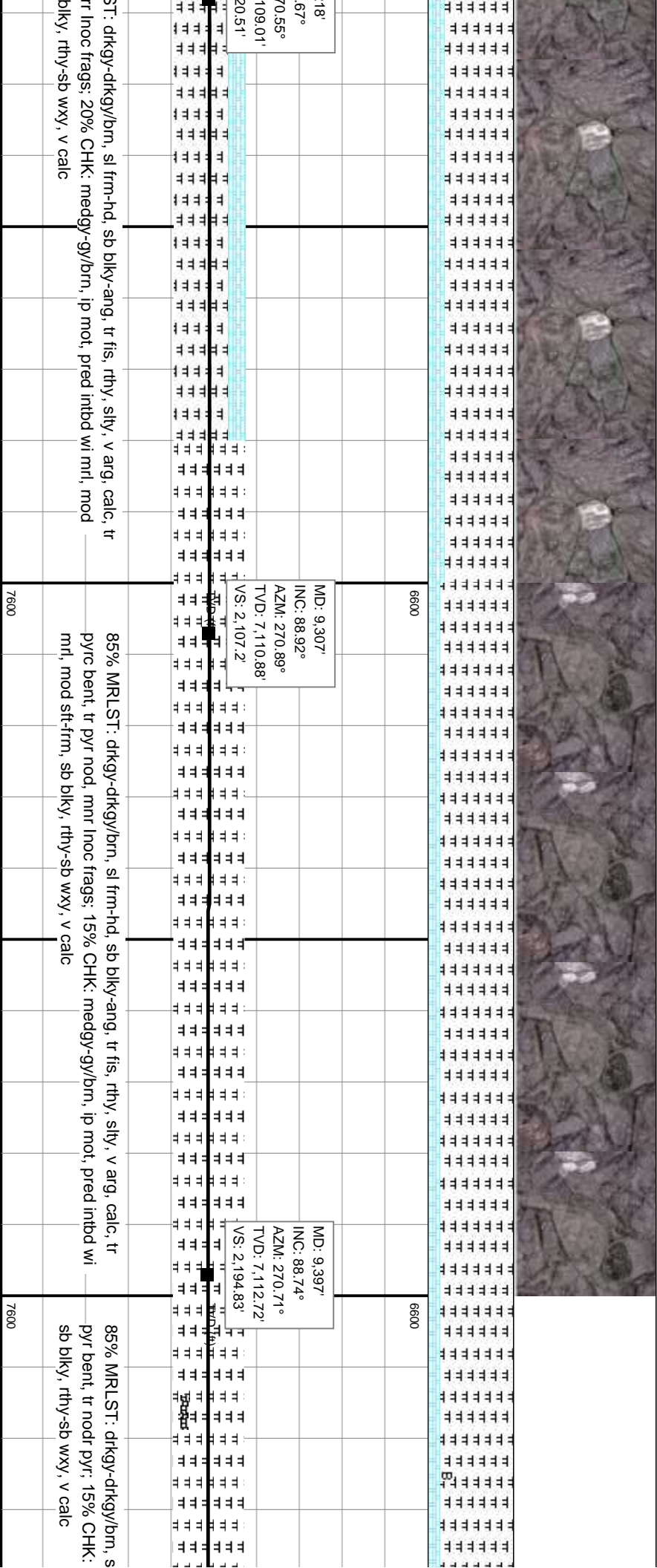
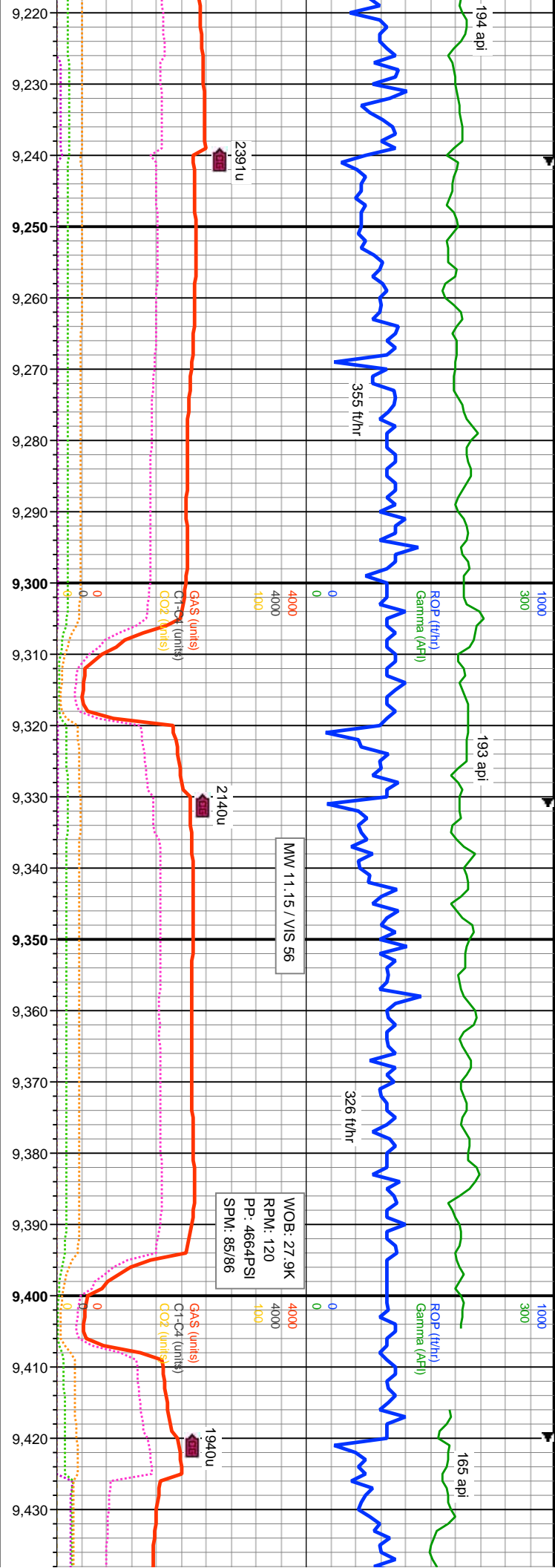


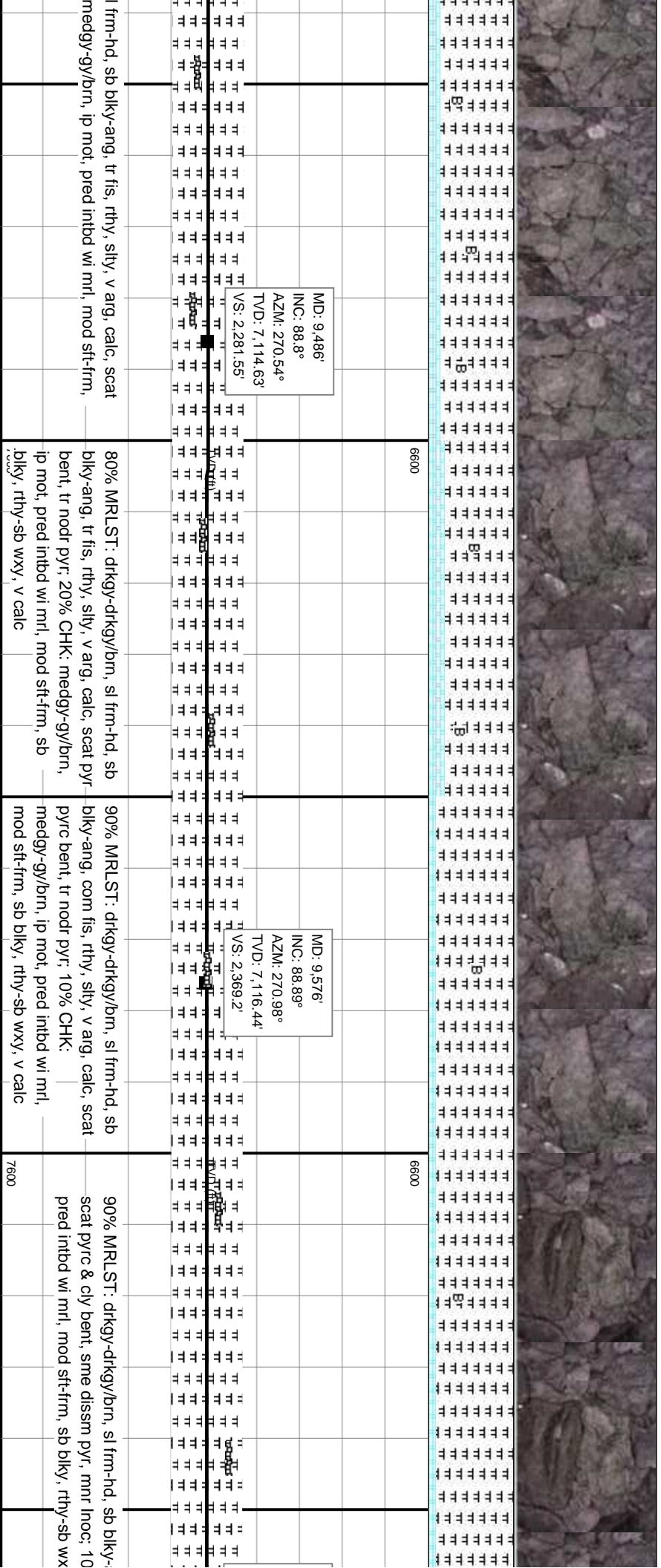
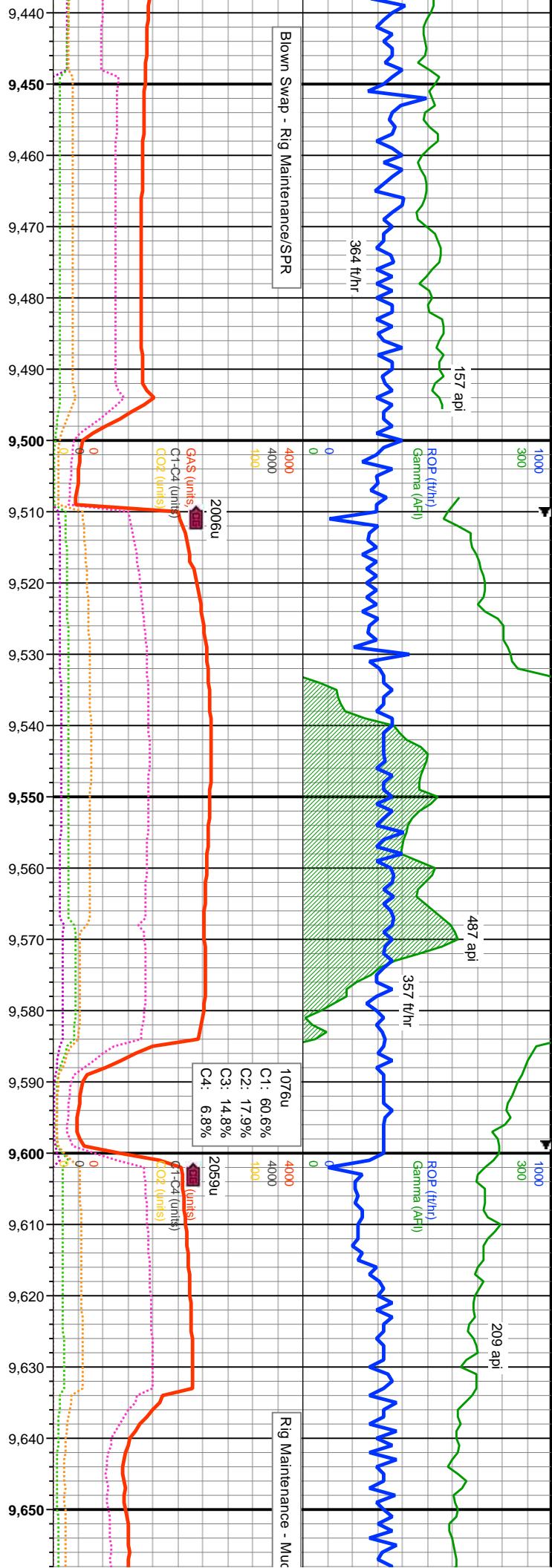


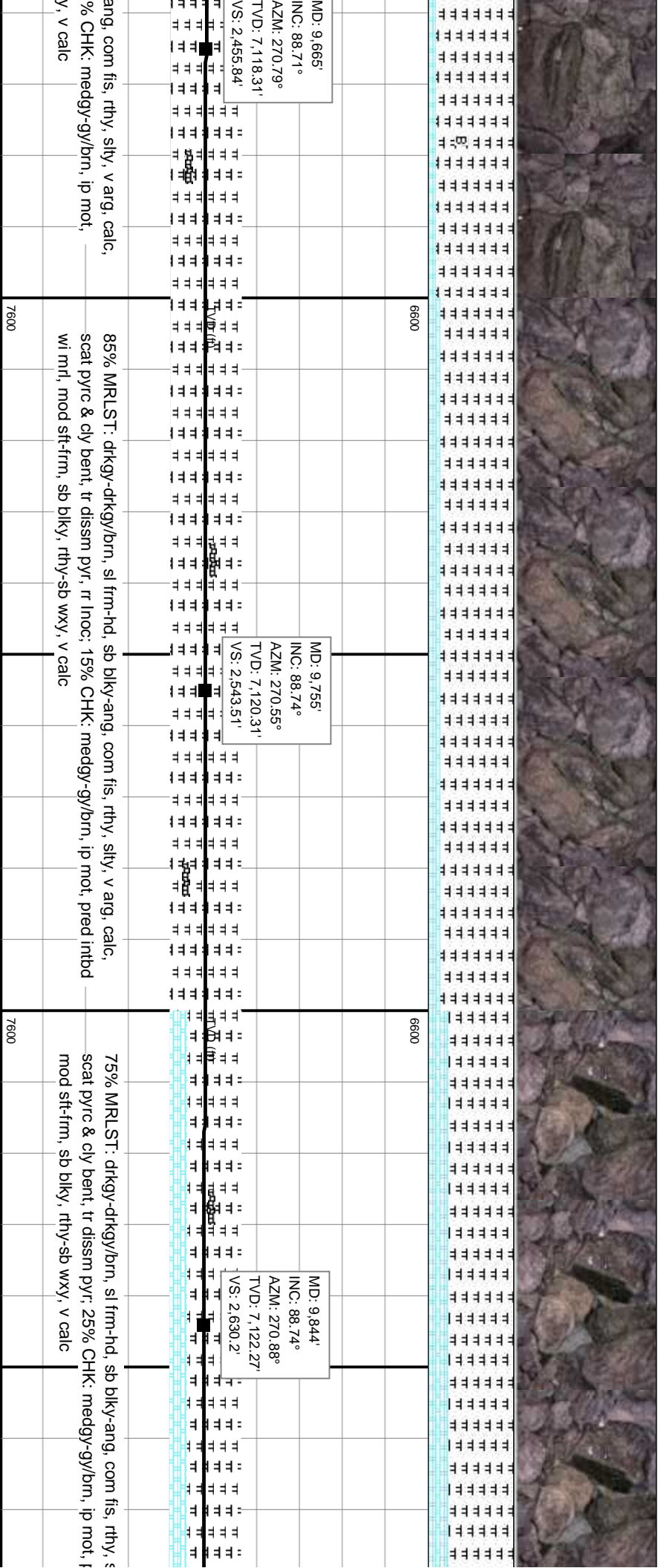
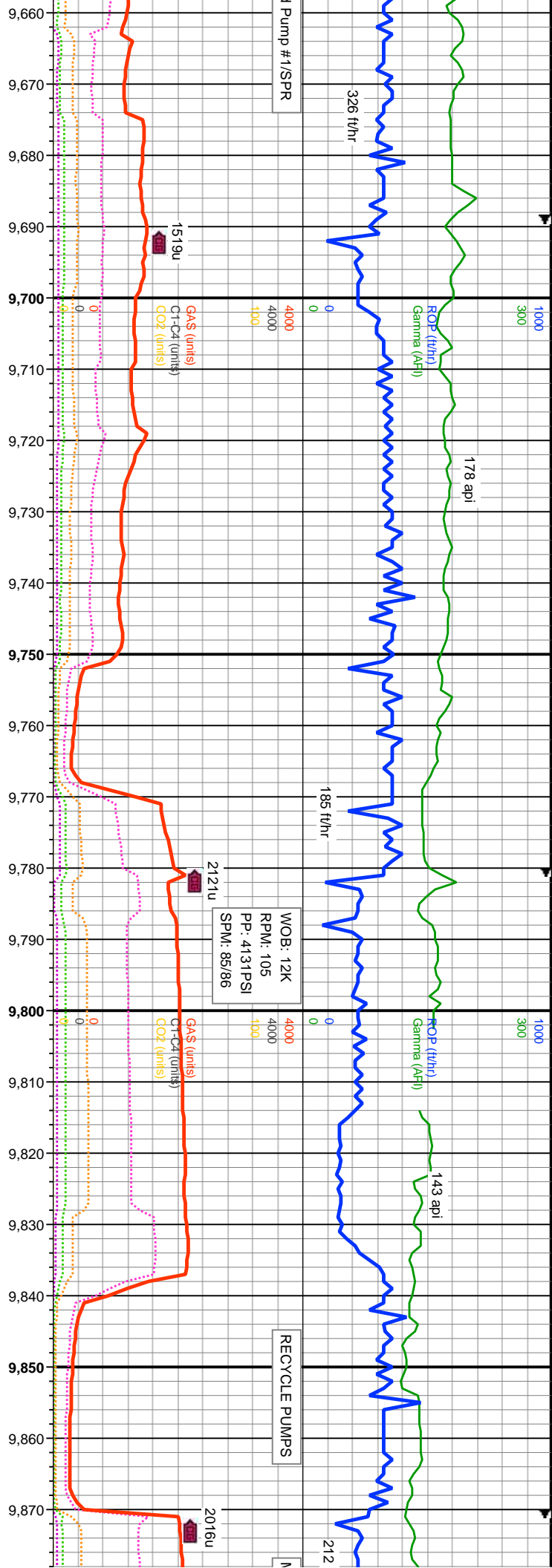


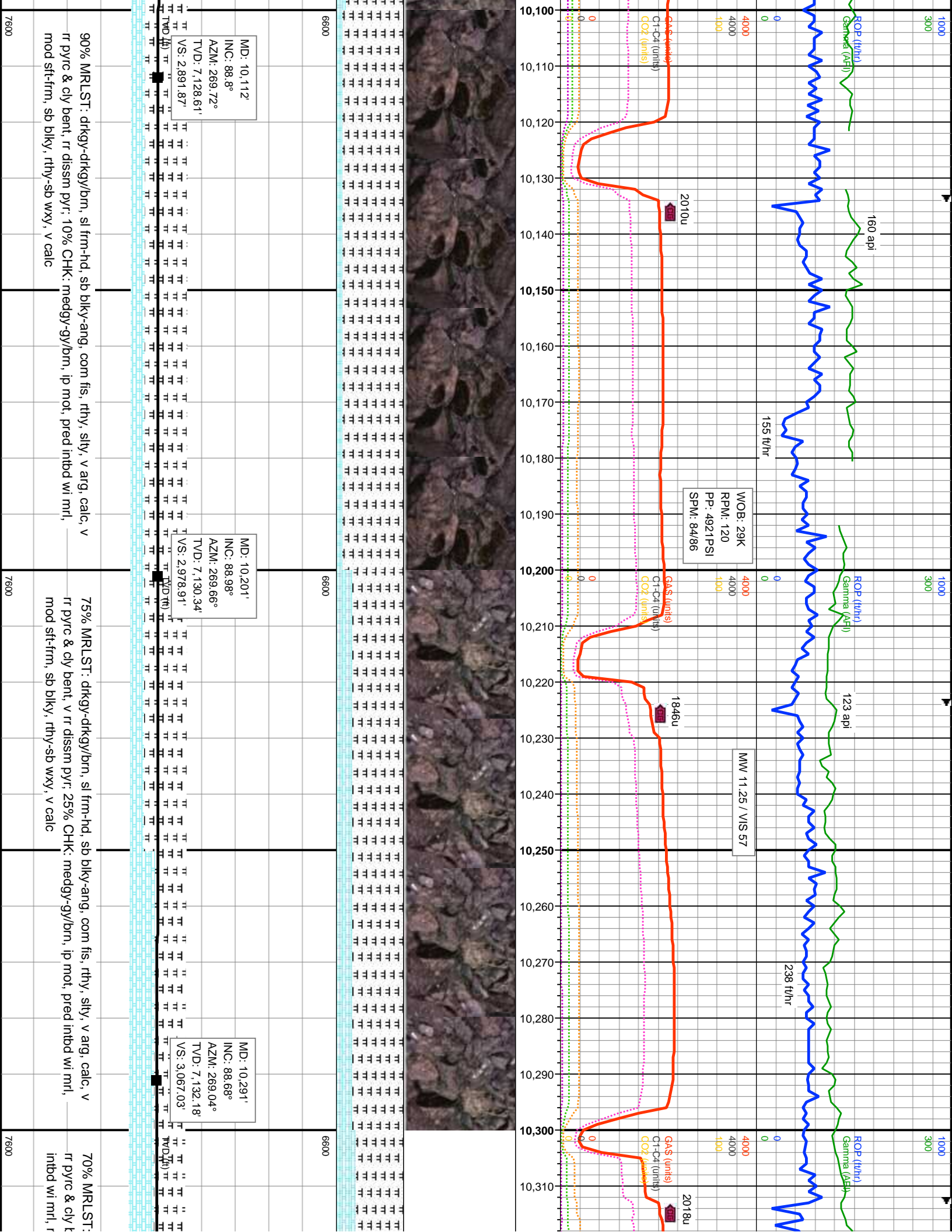


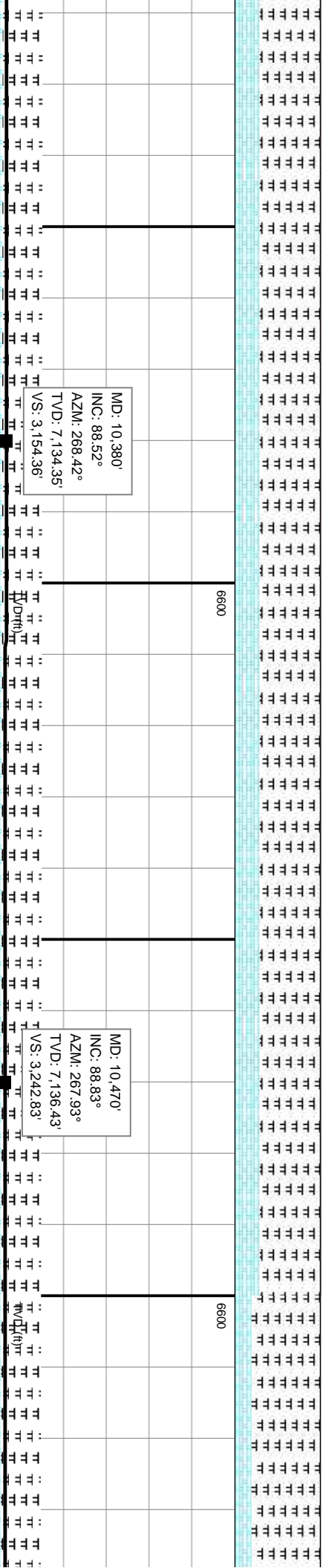
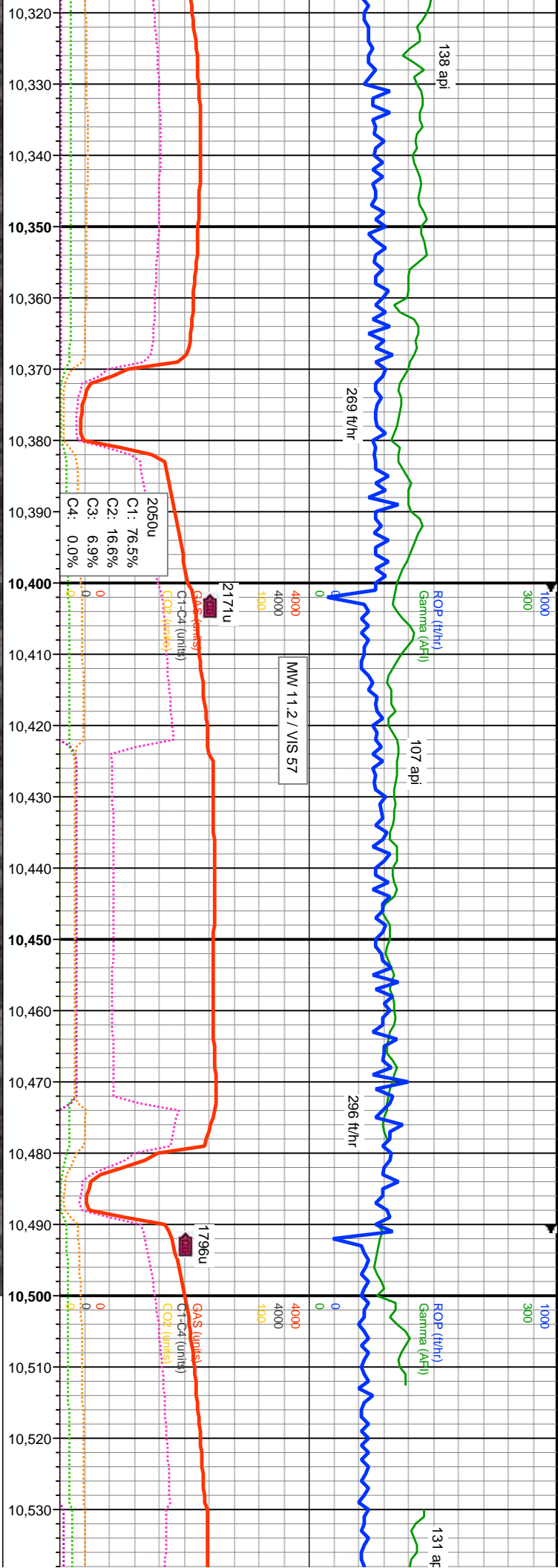








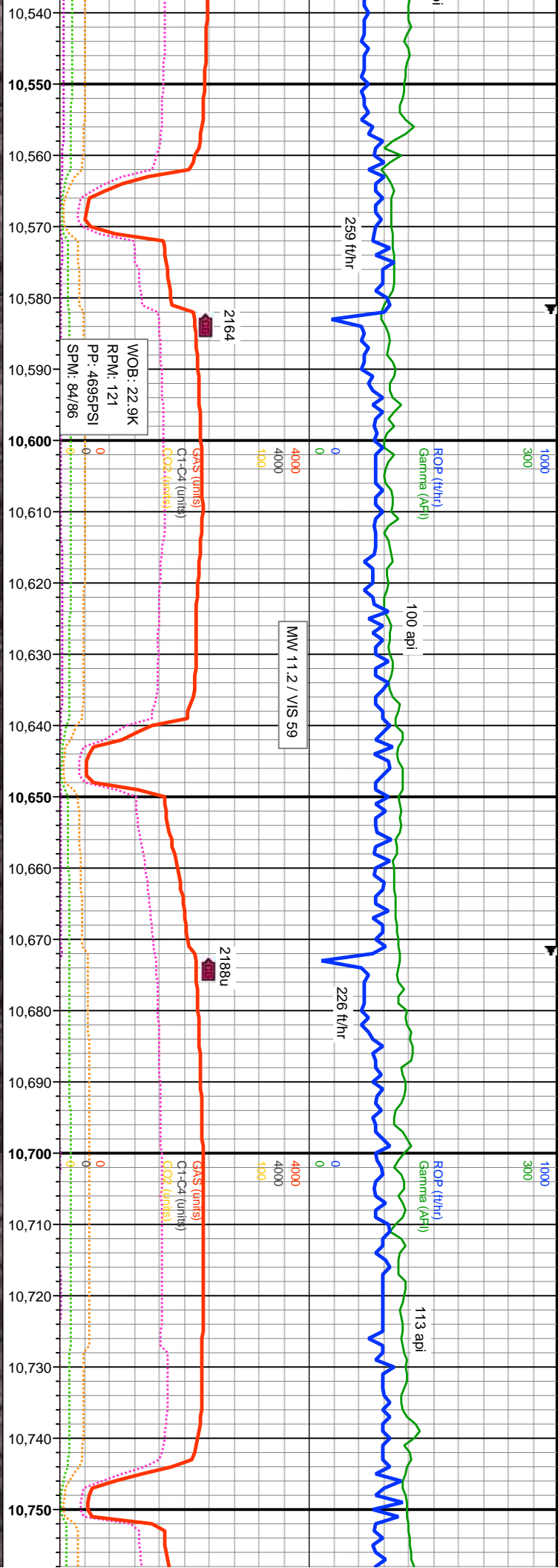




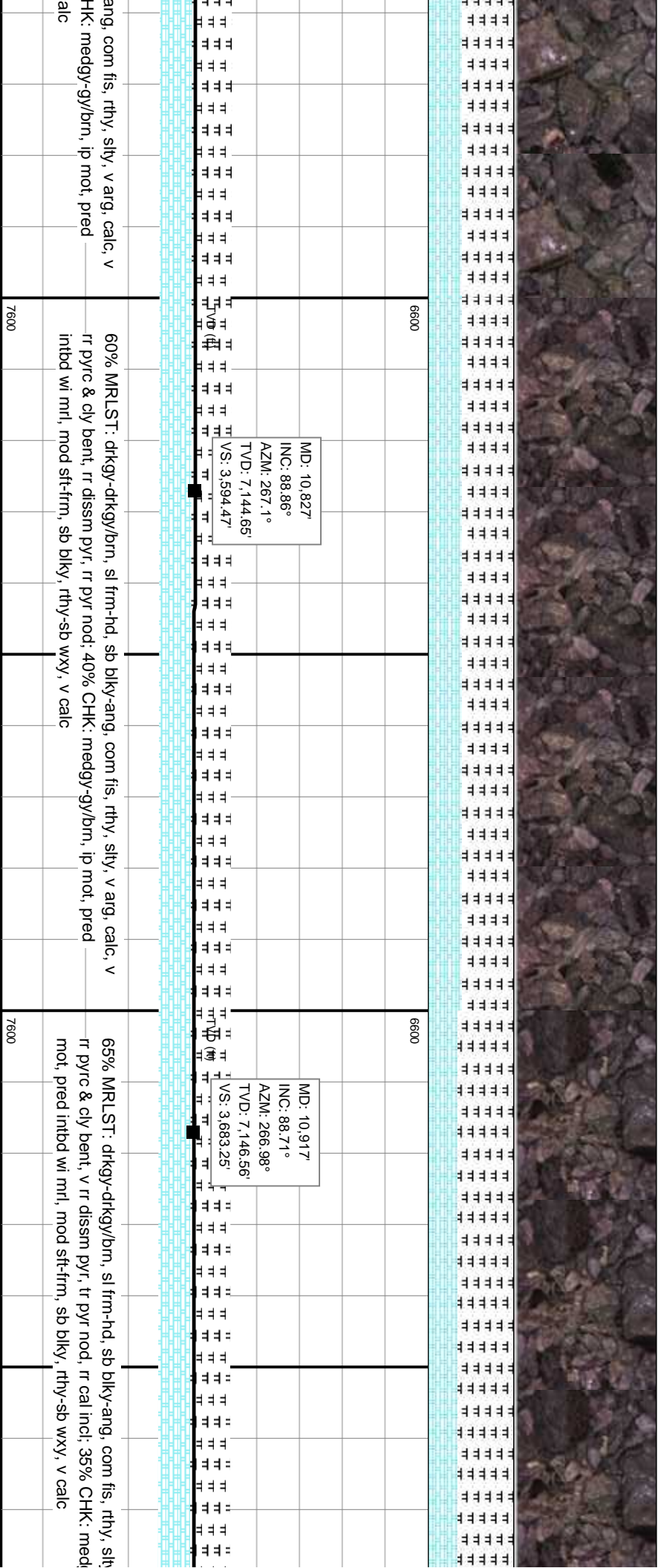
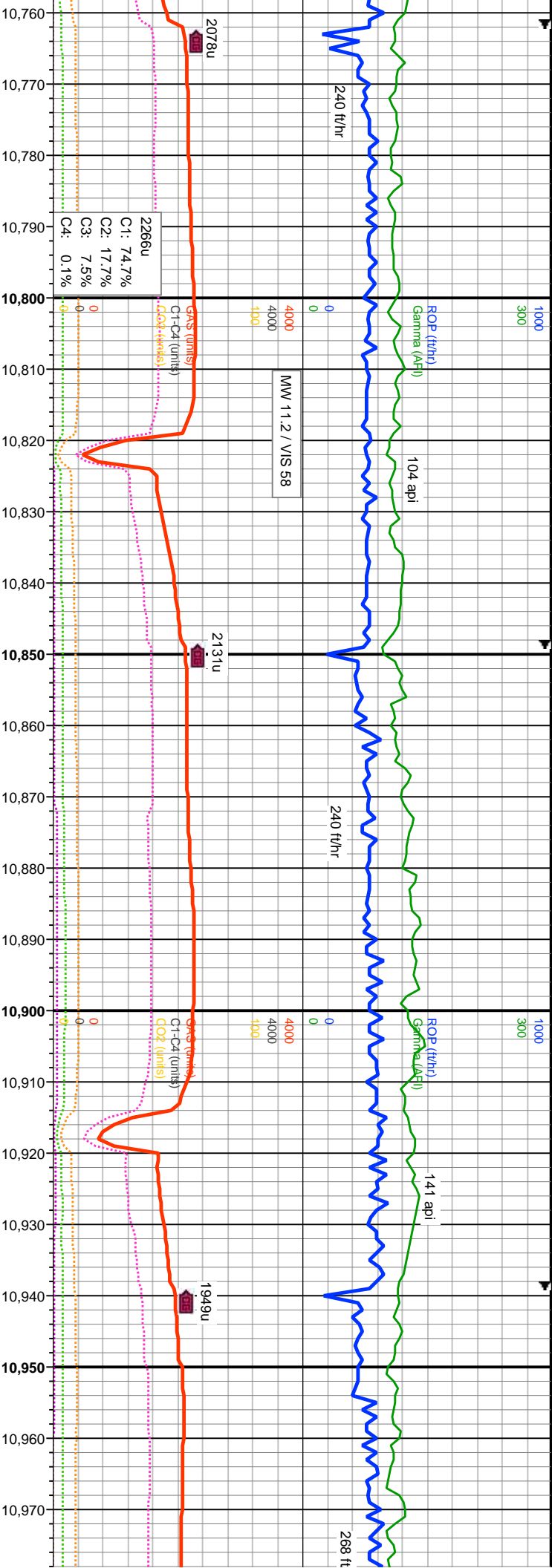
drkgy-drkgy/brn, sl frm-hd, sb blk-ang, com fis, rthy, silty, v arg, calc, v
ent, rr dissn pyr, rr pyr nod, 30% CHK, medgy-gy/brn, ip mot, pred
nod sft-frm, sb blk, rthy-sb wxy, v calc

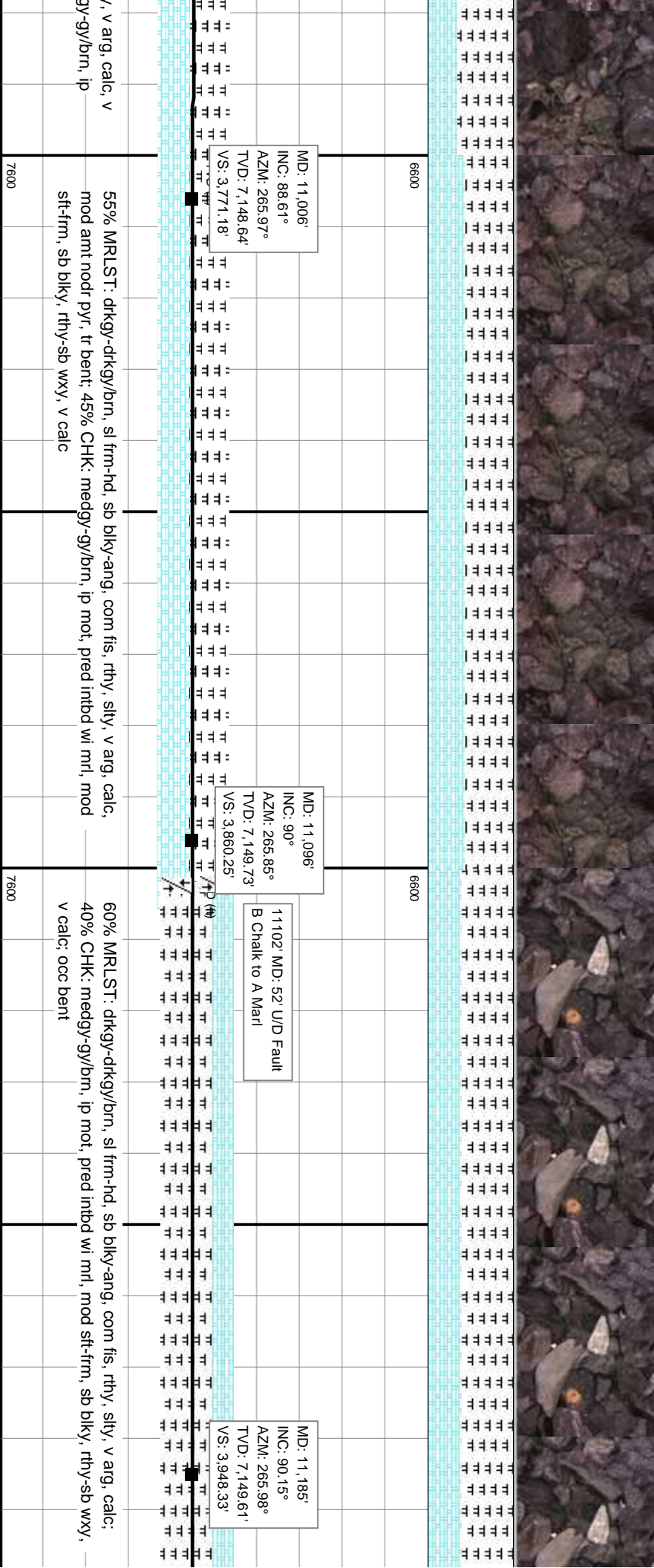
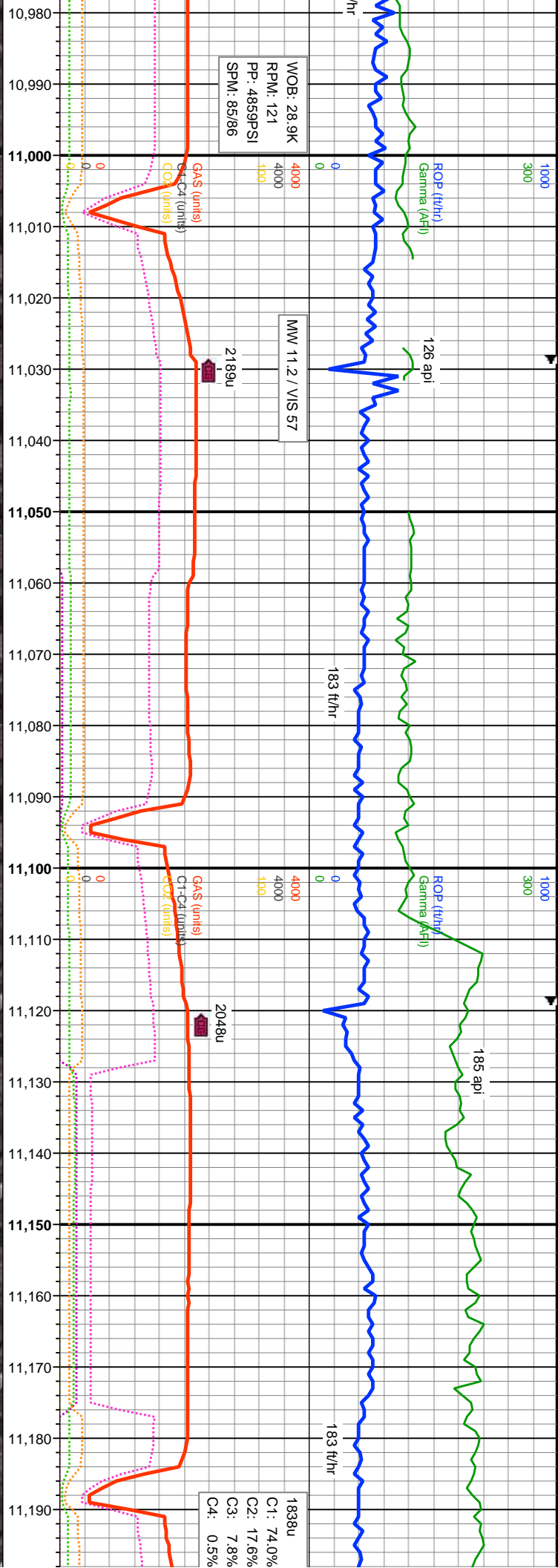
70% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blk-ang, com fis, rthy, silty, v arg, calc, v
rr pyrc & cly bent, rr dissn pyr, rr pyr nod, 30% CHK, medgy-gy/brn, ip mot, pred
intbd wi mrl, mod sft-frm, sb blk, rthy-sb wxy, v calc

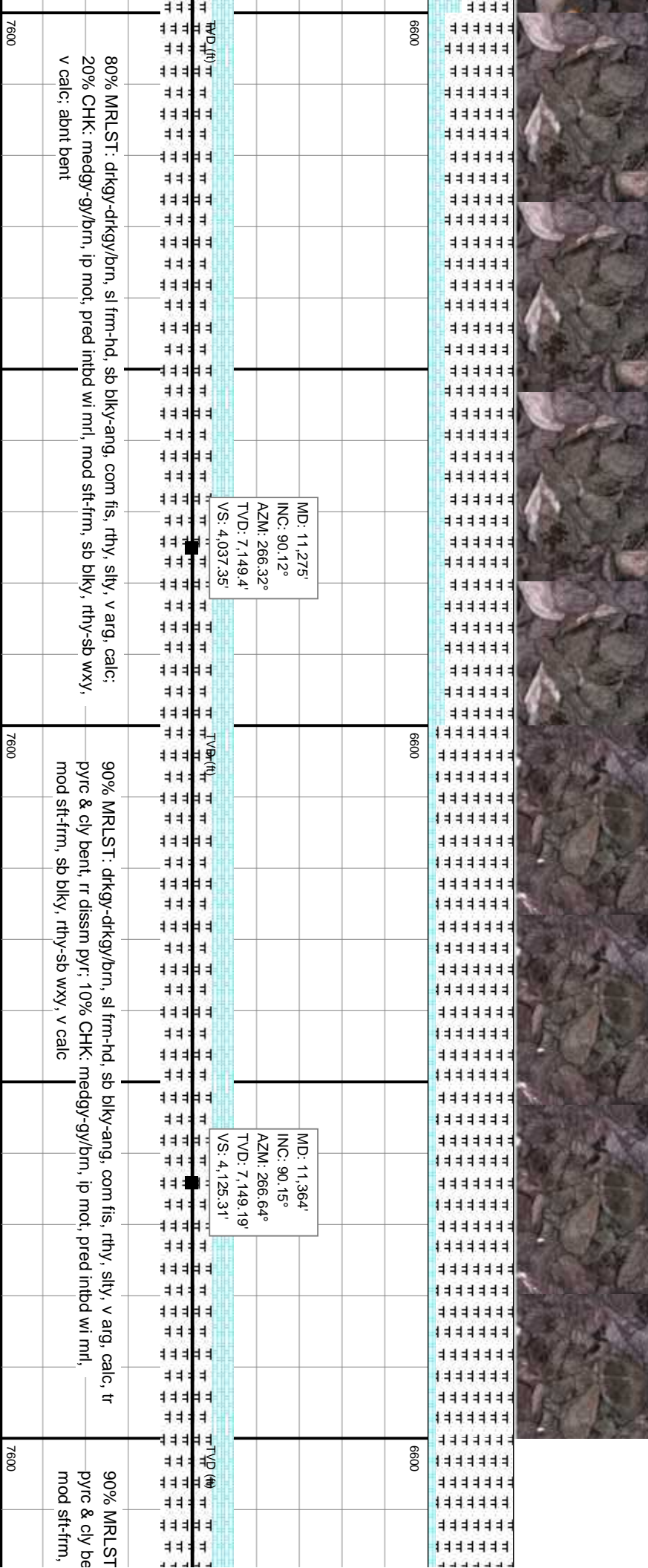
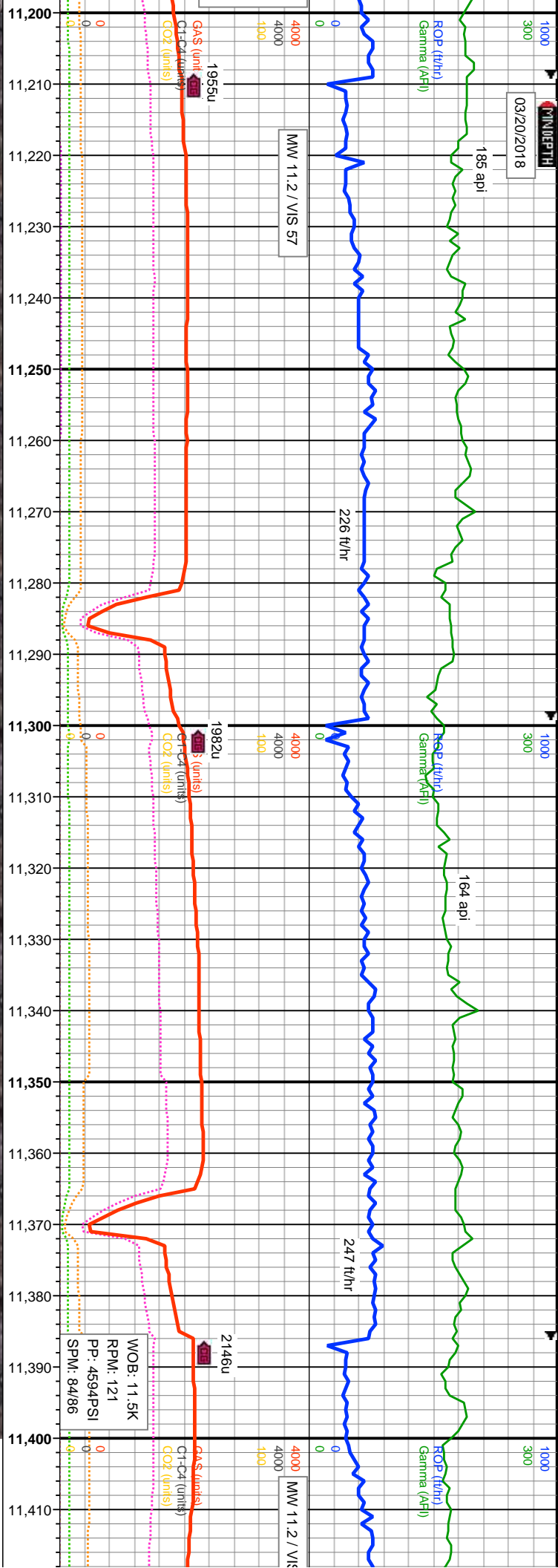
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rr pyrc & cly bent, rr dissn pyr,
intbd wi mrl, mod sft-frm, sb blk

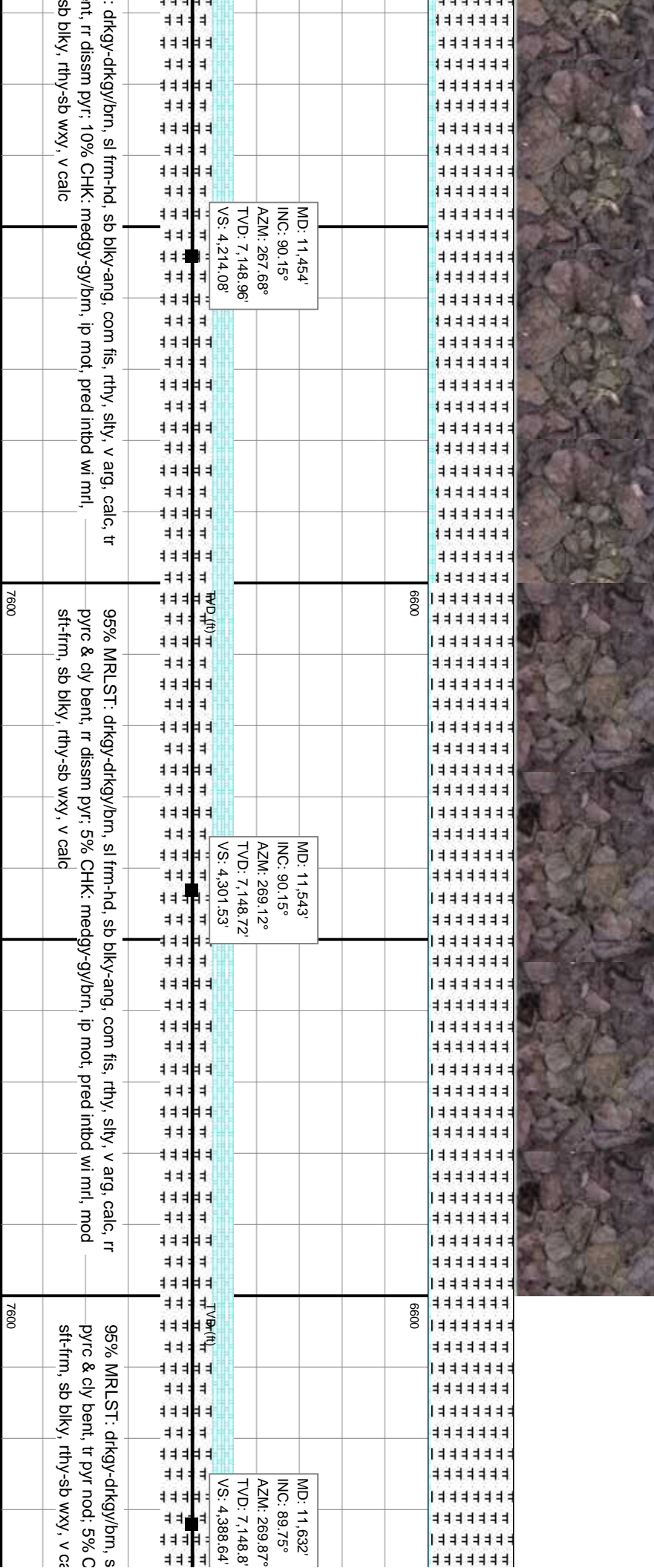
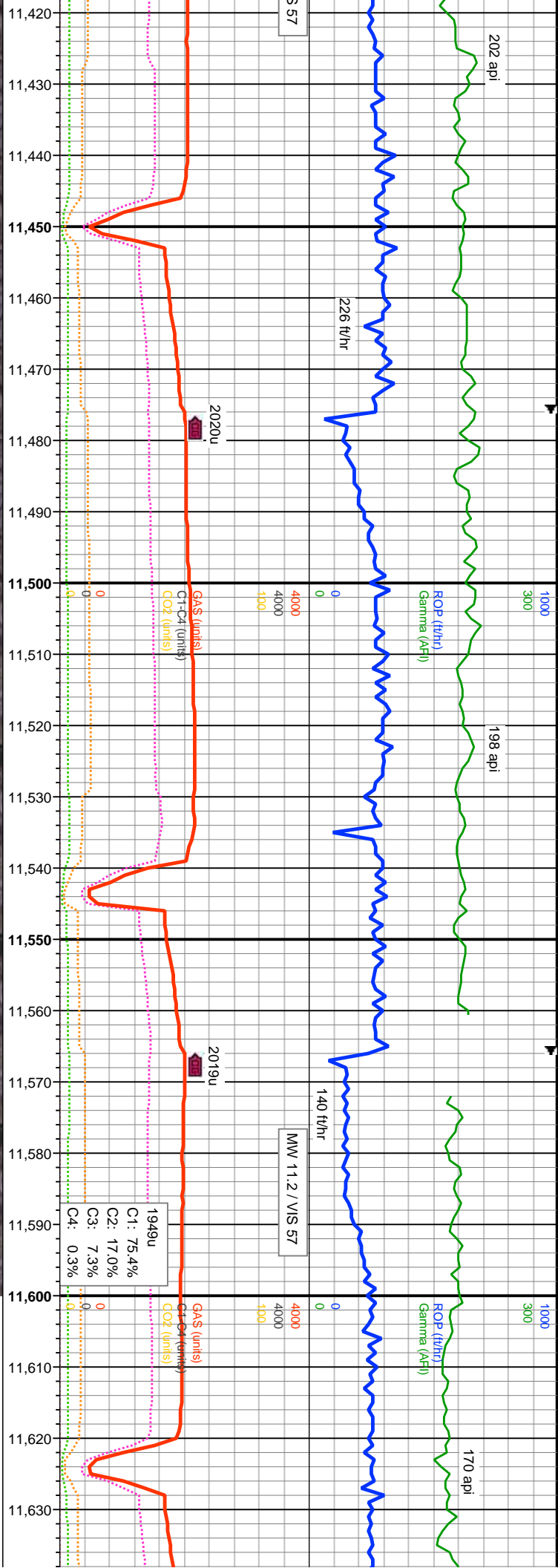


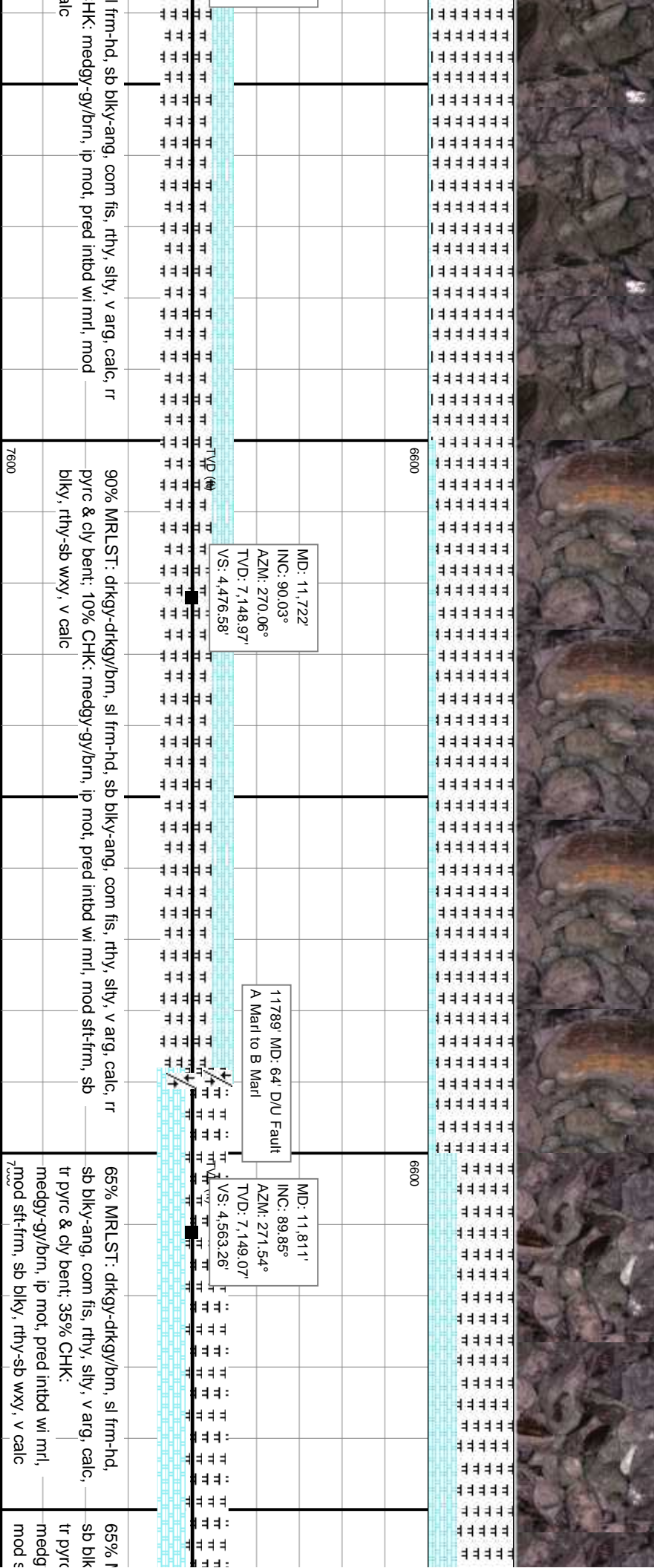
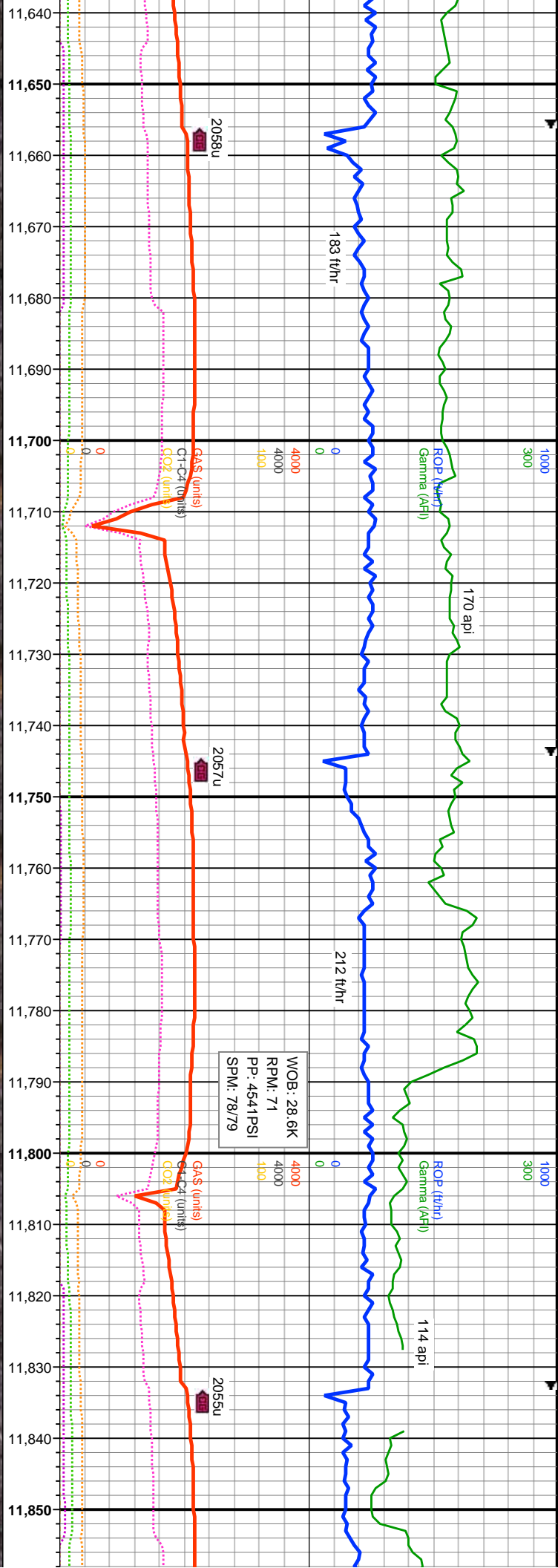
sl frm-hd, sb blk-y-ang, com fis, rthy, slty, v arg, calc, v	70% MRLST: drkgy-drkgy/bm, sl frm-hd, sb blk-y-ang, com fis, rthy, slty, v arg, calc, v	60% MRLST: drkgy-drkgy/bm, sl frm-hd, sb blk-y-ang, com fis, rthy, slty, v arg, calc, v
rr pyr nod, 20% CHK: medgy-gy/bm, ip mot, pred	rr pyrc & cly bent, rr dissn pyr, rr pyr nod, 30% CHK: medgy-gy/bm, ip mot, pred	rr pyrc & cly bent, rr dissn pyr, rr pyr nod, 40% C
vy, rthy-sb wxy, v calc	intbd wi mri, mod sft-frm, sb blk-y, rthy-sb wxy, v calc	intbd wi mri, mod sft-frm, sb blk-y, rthy-sb wxy, v c
6600	6600	6600
7600	7600	7600

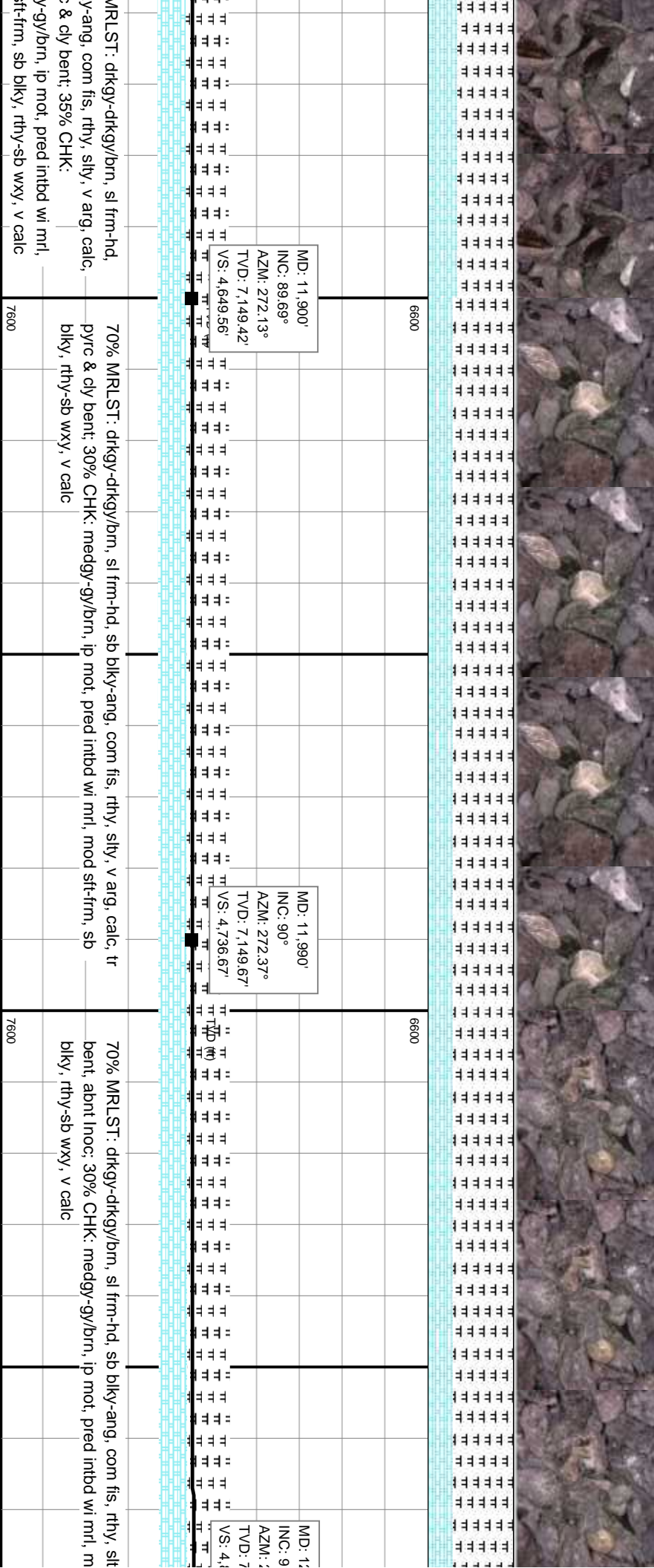
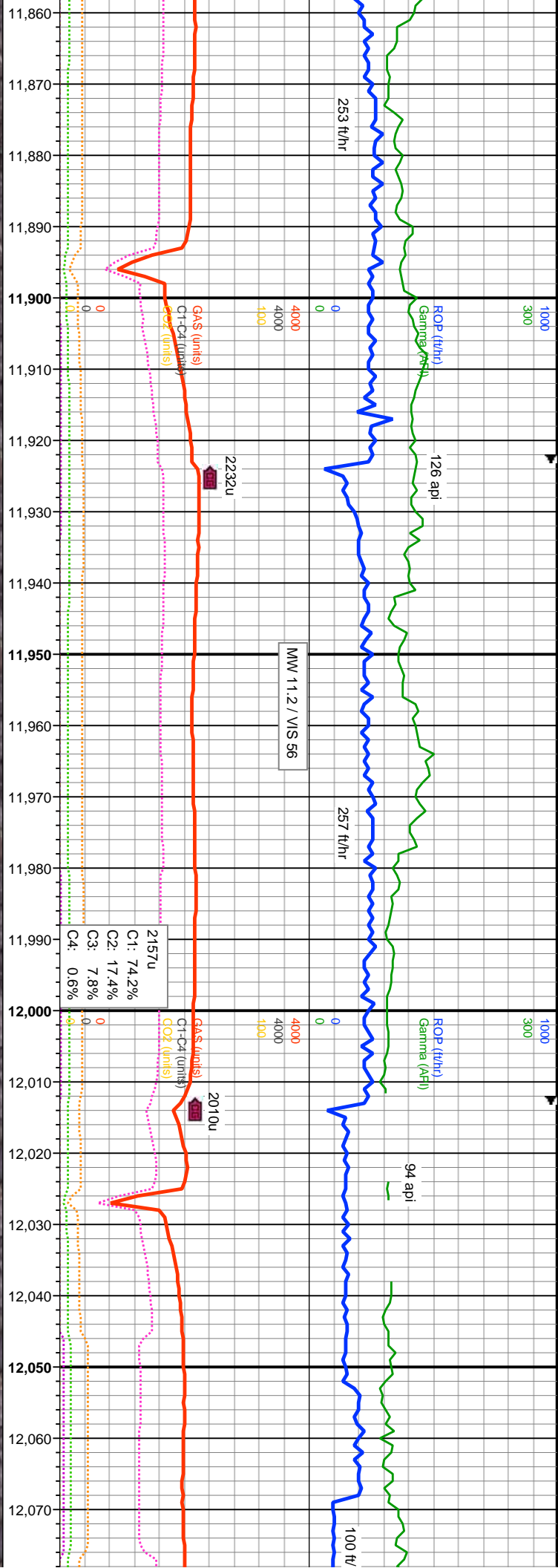


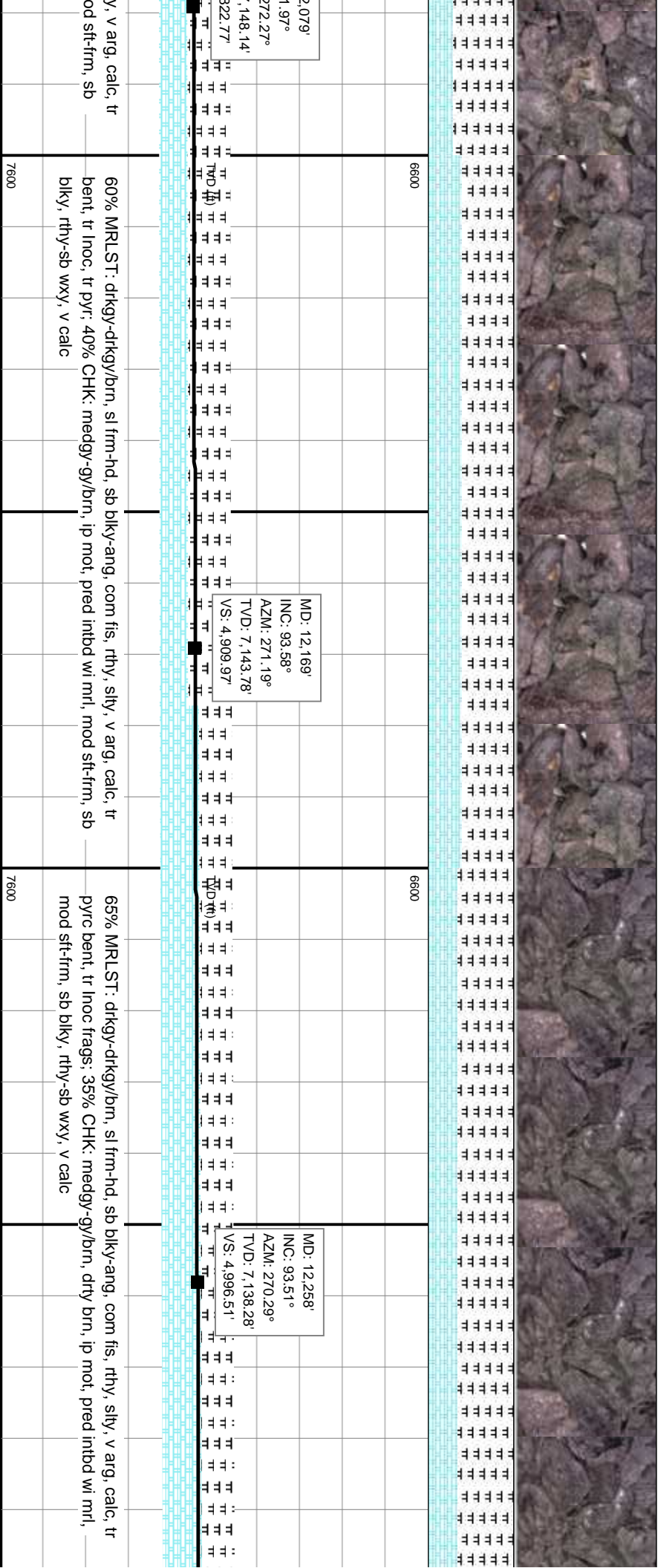
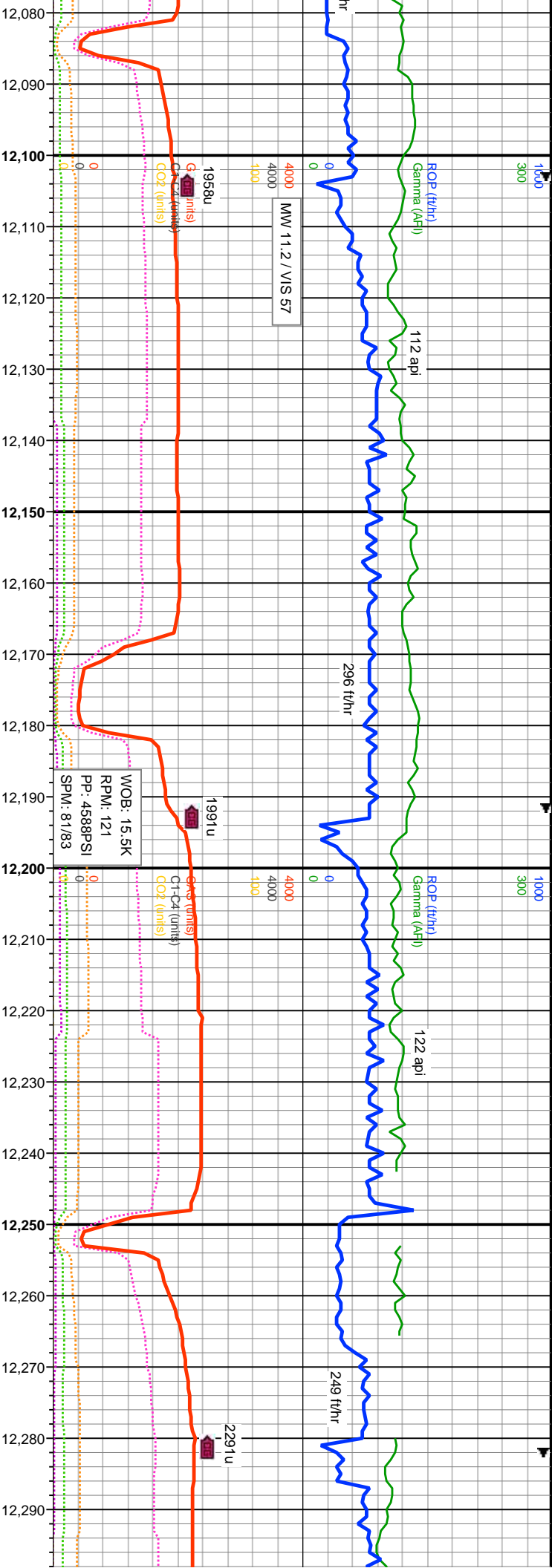


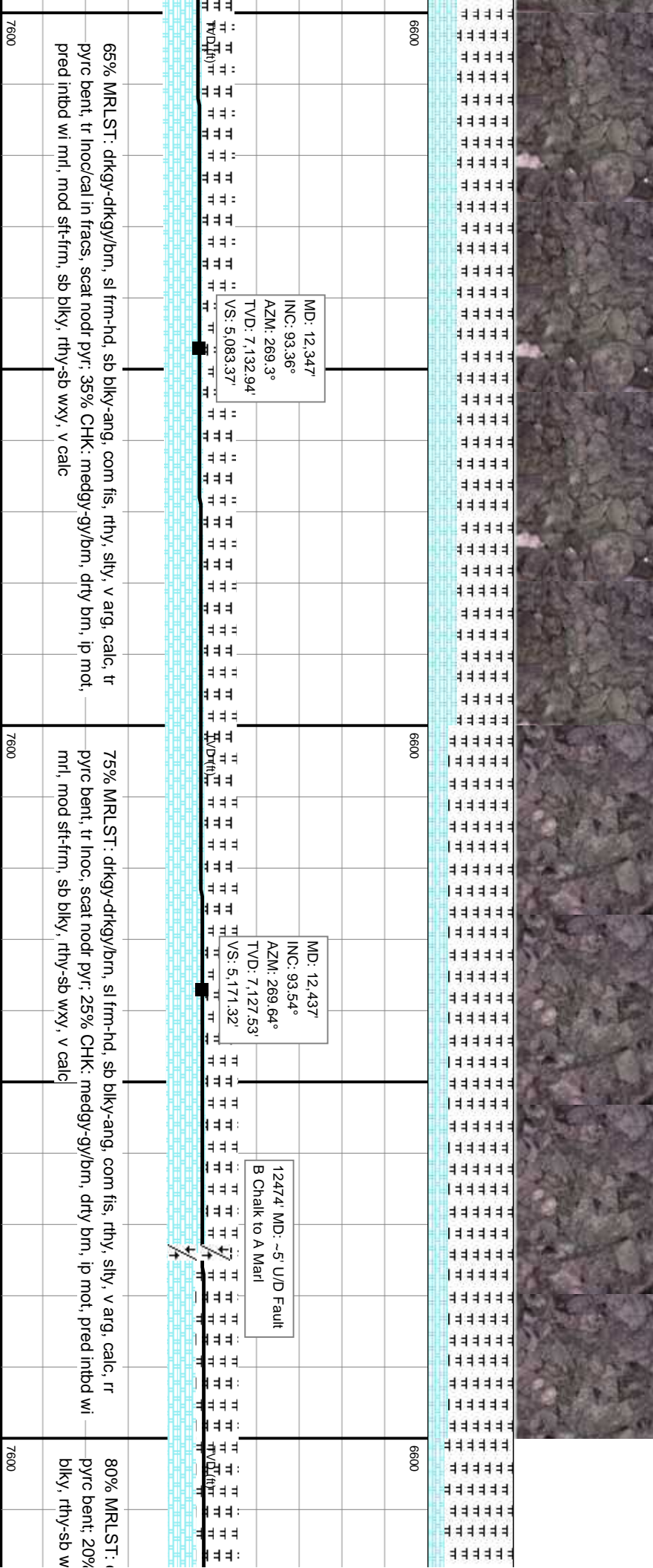
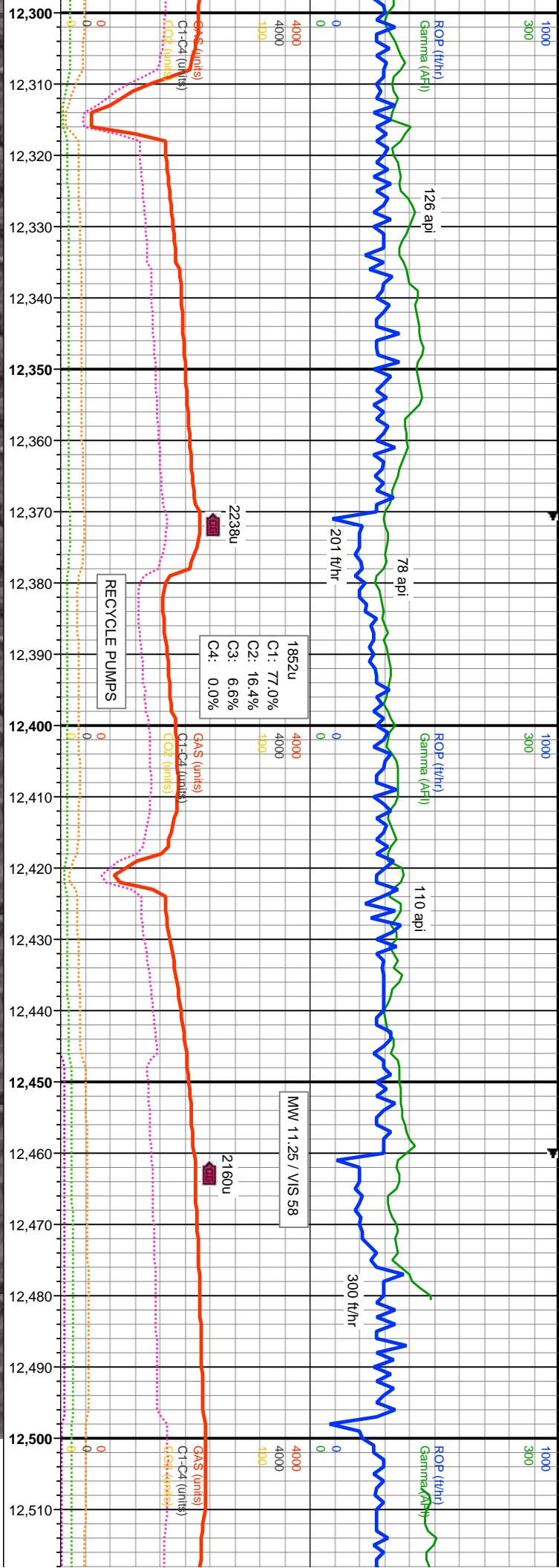








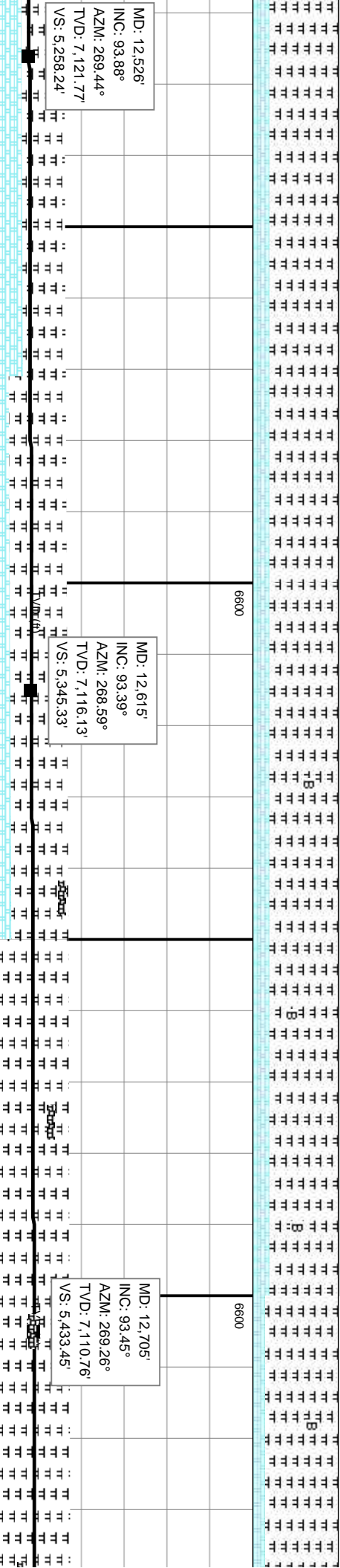
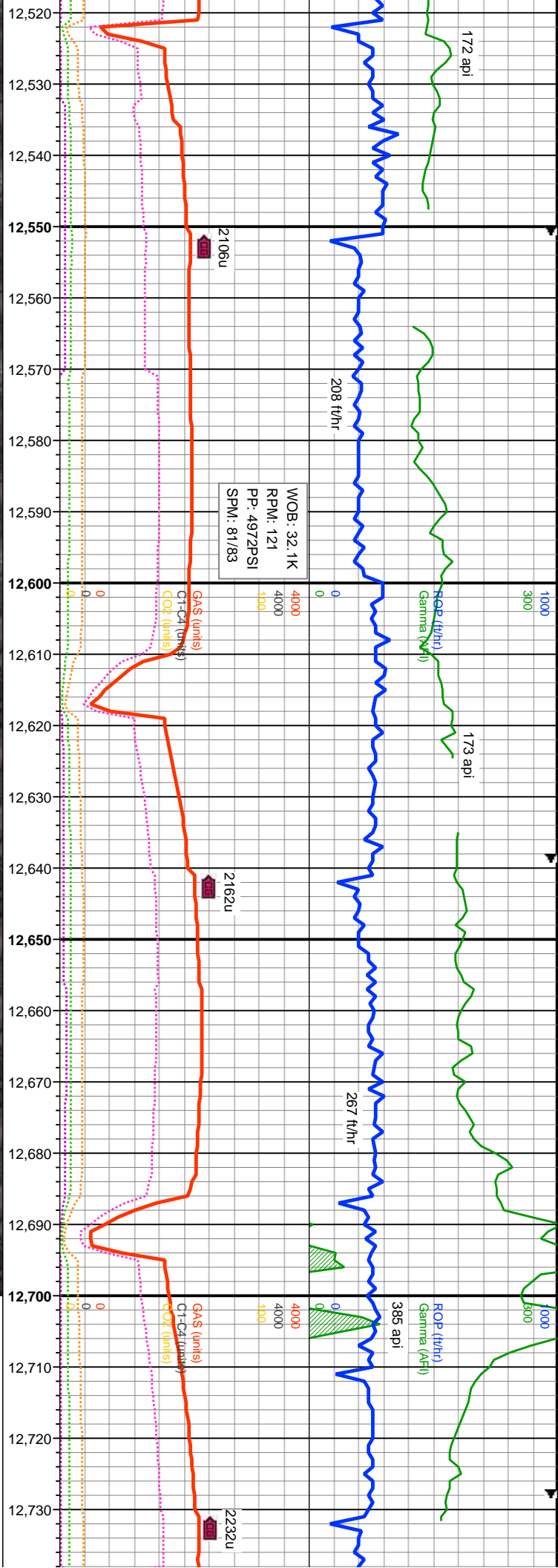




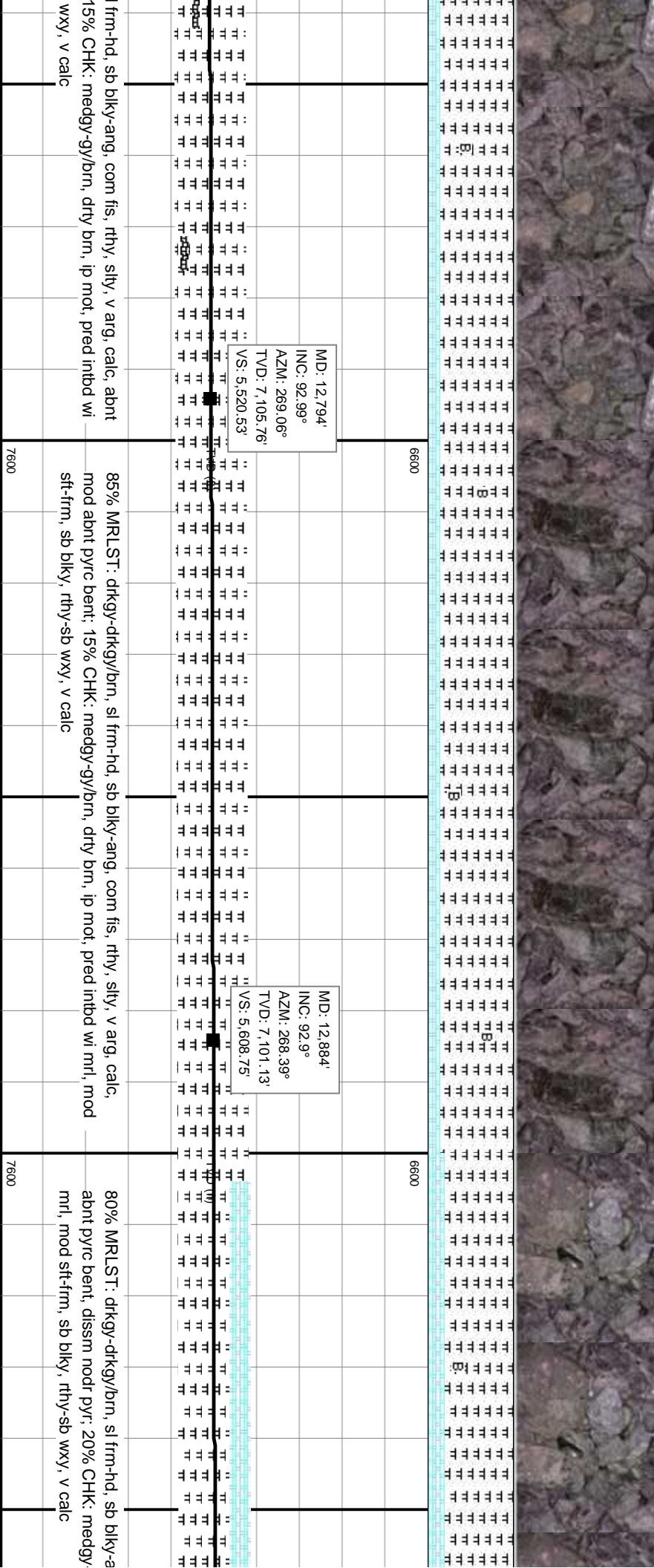
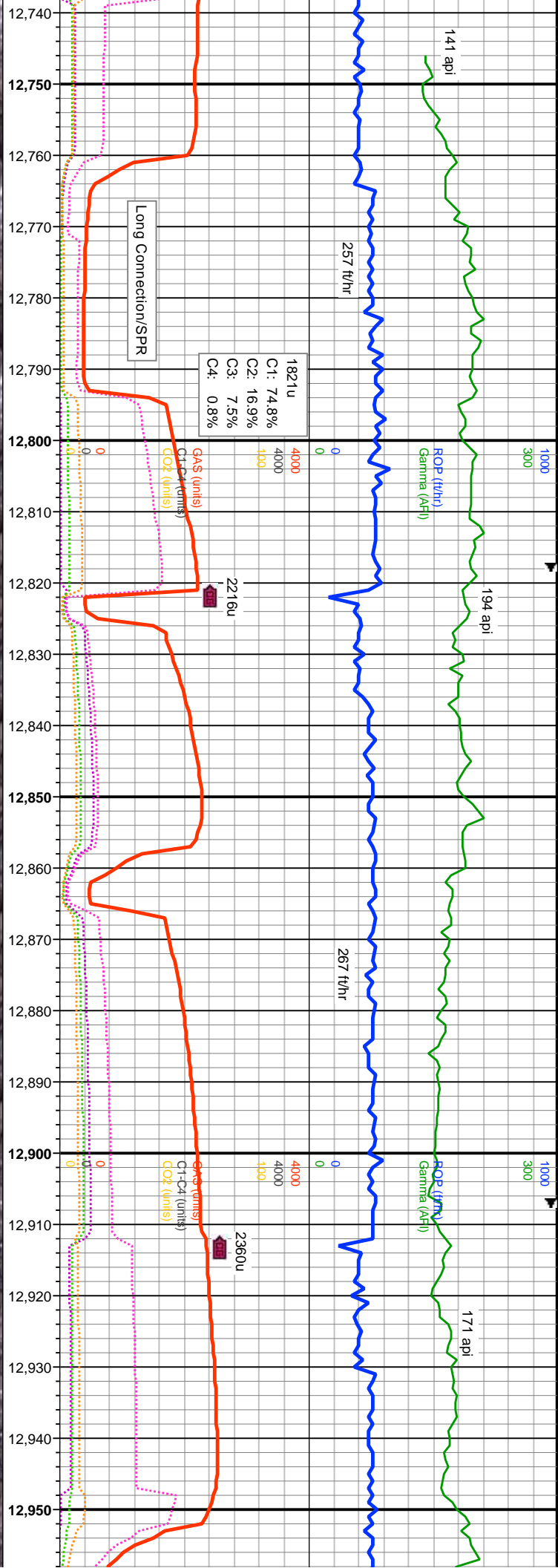
65% MRLST: dtkgy-dtkgy/brn, sl frm-hd, sb blk-y-ang, com fis, rthy, slty, v arg, calc, tr
pyrc bent, tr inoc/cal in fracs, scat nodr pyr, 35% CHK: medgy-gy/brn, dtry brn, lp mot,
pred intbd wi mrl, mod sft-frm, sb blk-y, rthy-sb wxy, v calc

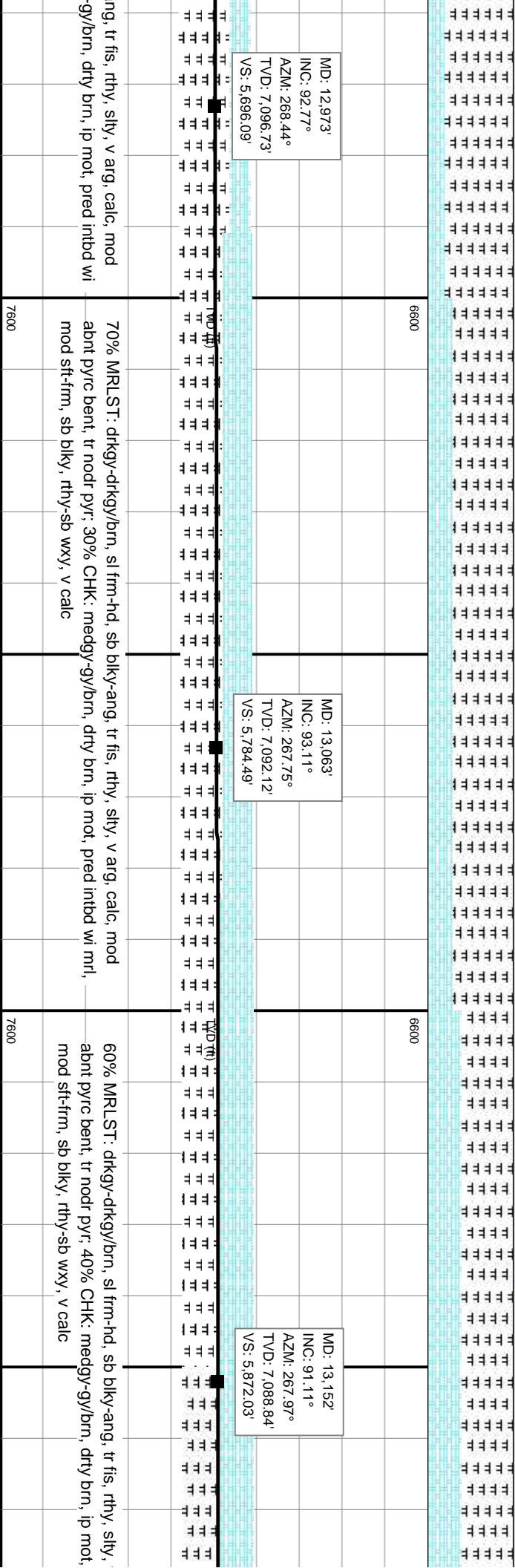
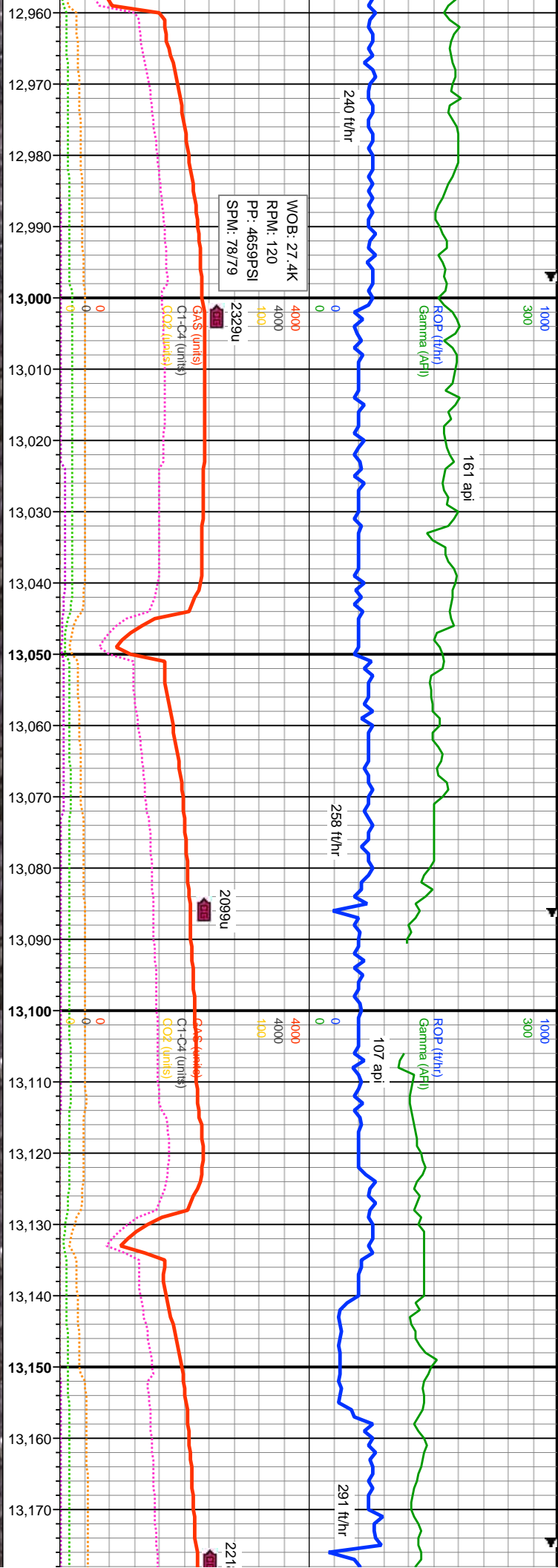
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pyrc bent, tr inoc, scat nodr pyr, 25% CHK: medgy-gy/brn, dtry brn, lp mot, pred intbd wi
mrl, mod sft-frm, sb blk-y, rthy-sb wxy, v calc

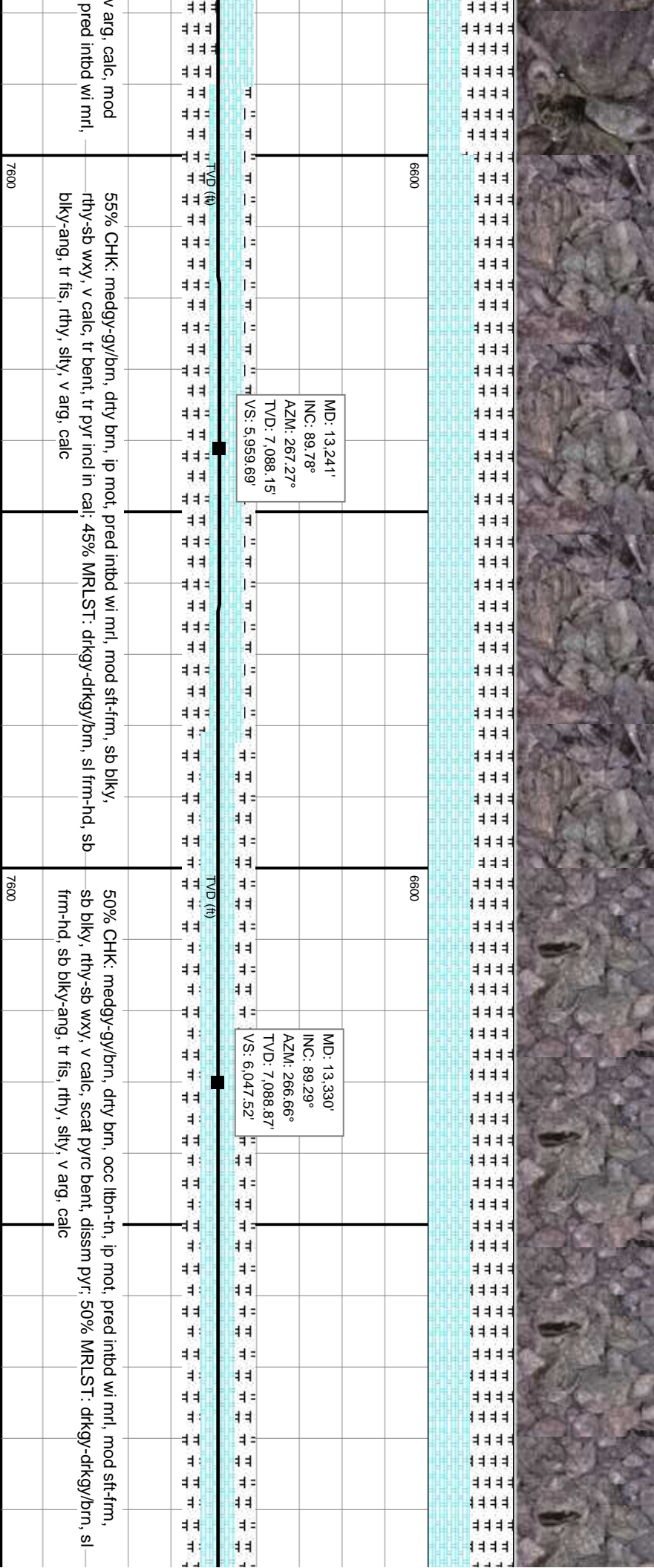
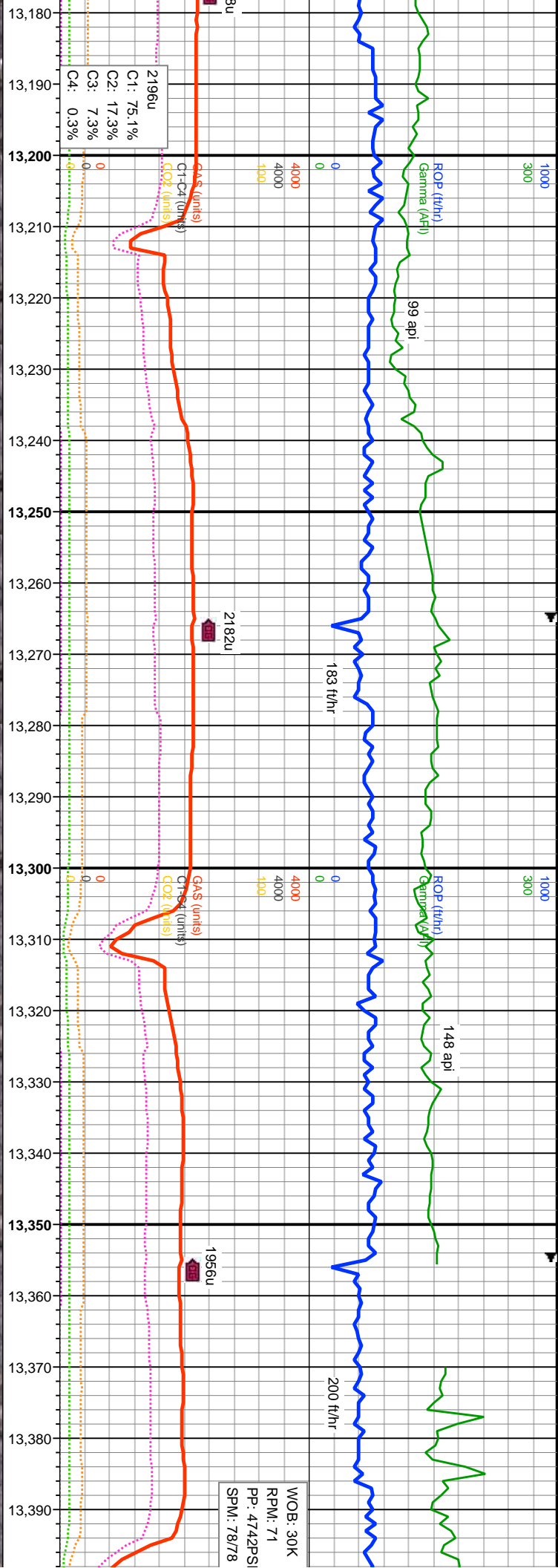
80% MRLST: dtkgy-dtkgy/brn, sl frm-hd, sb blk-y-ang, com fis, rthy, slty, v arg, calc, tr
pyrc bent, 20% CHK: medgy-gy/brn, dtry brn, lp mot, pred intbd wi
mrl, mod sft-frm, sb blk-y, rthy-sb wxy, v calc

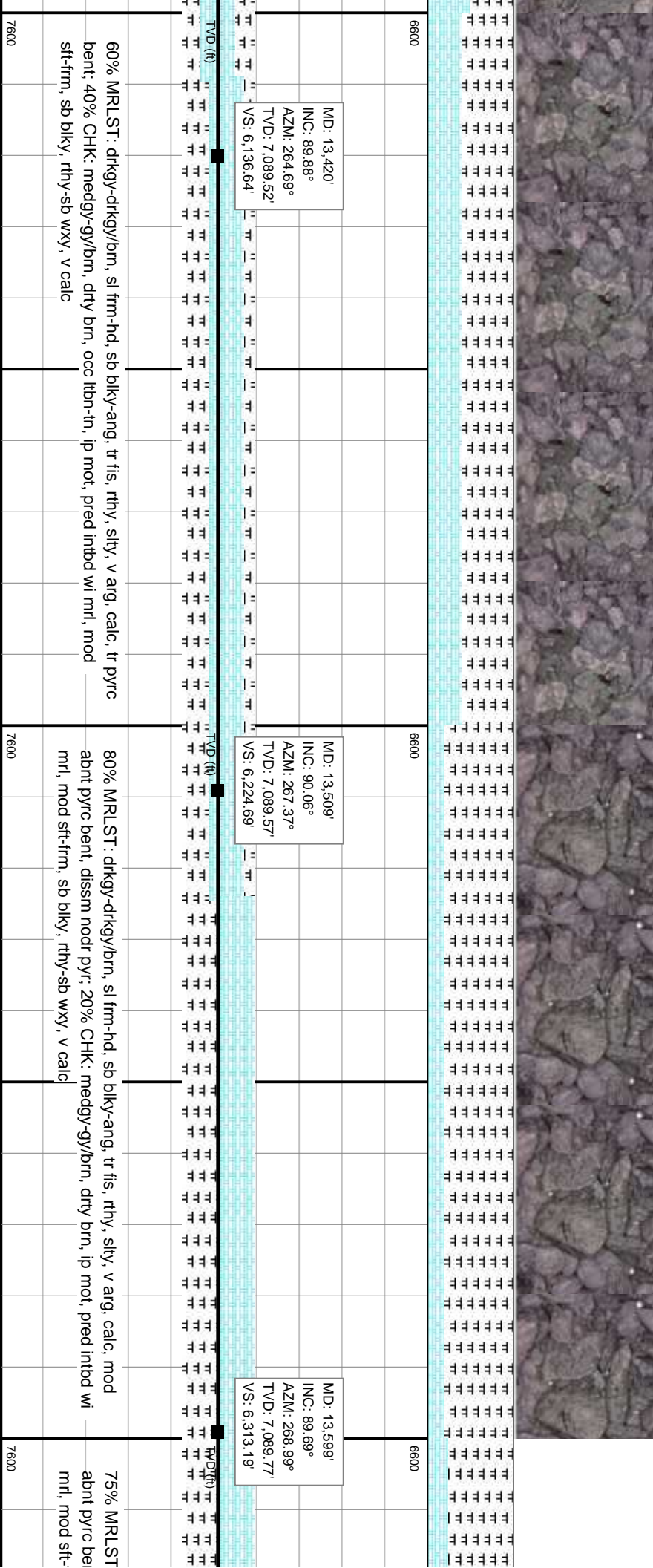
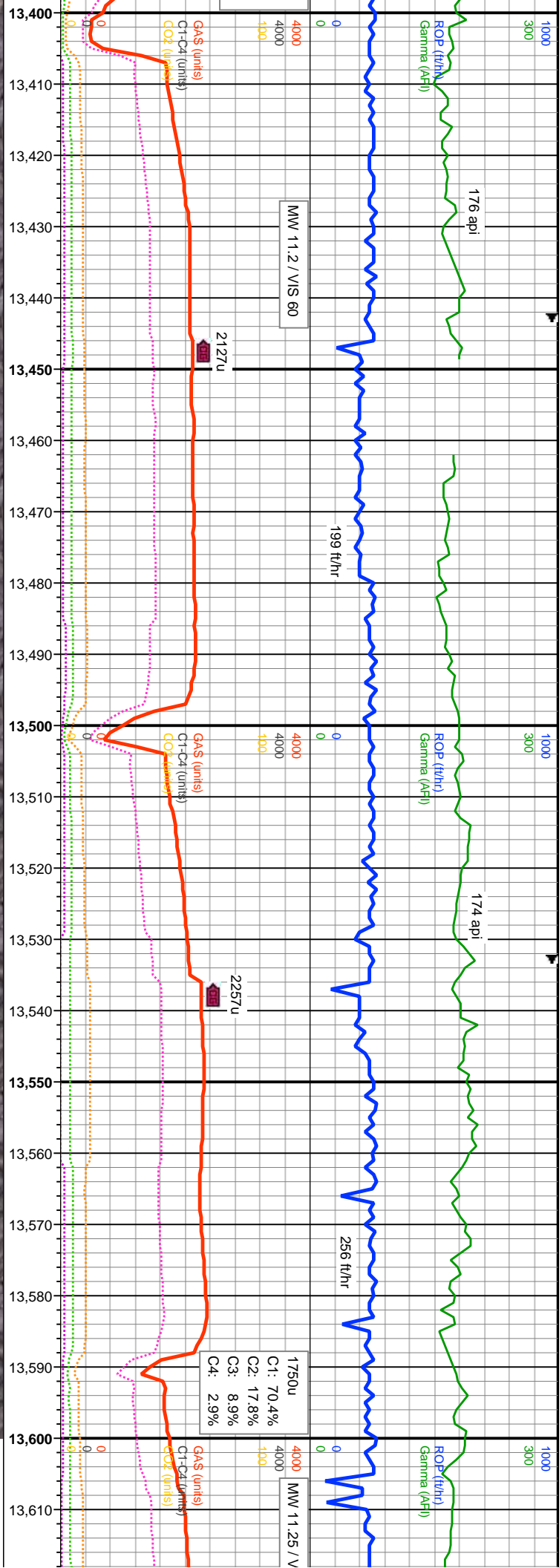


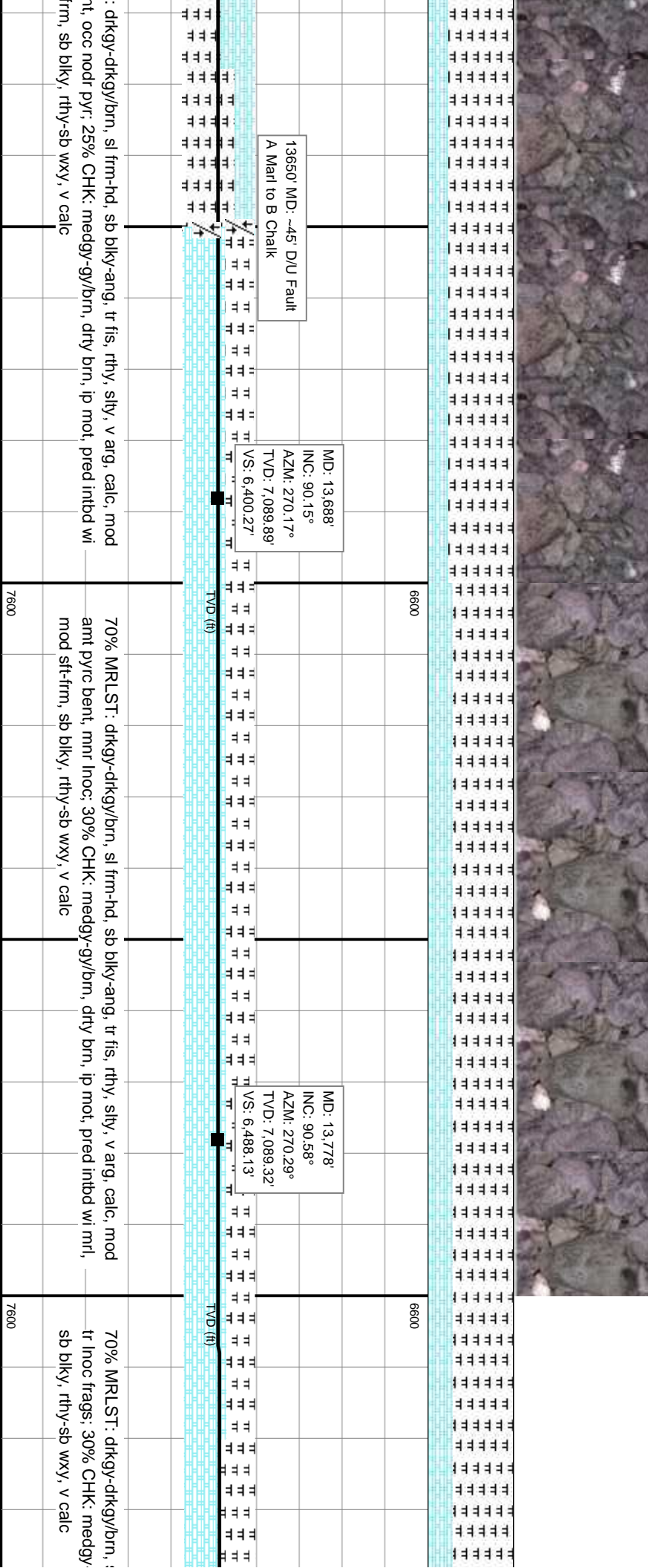
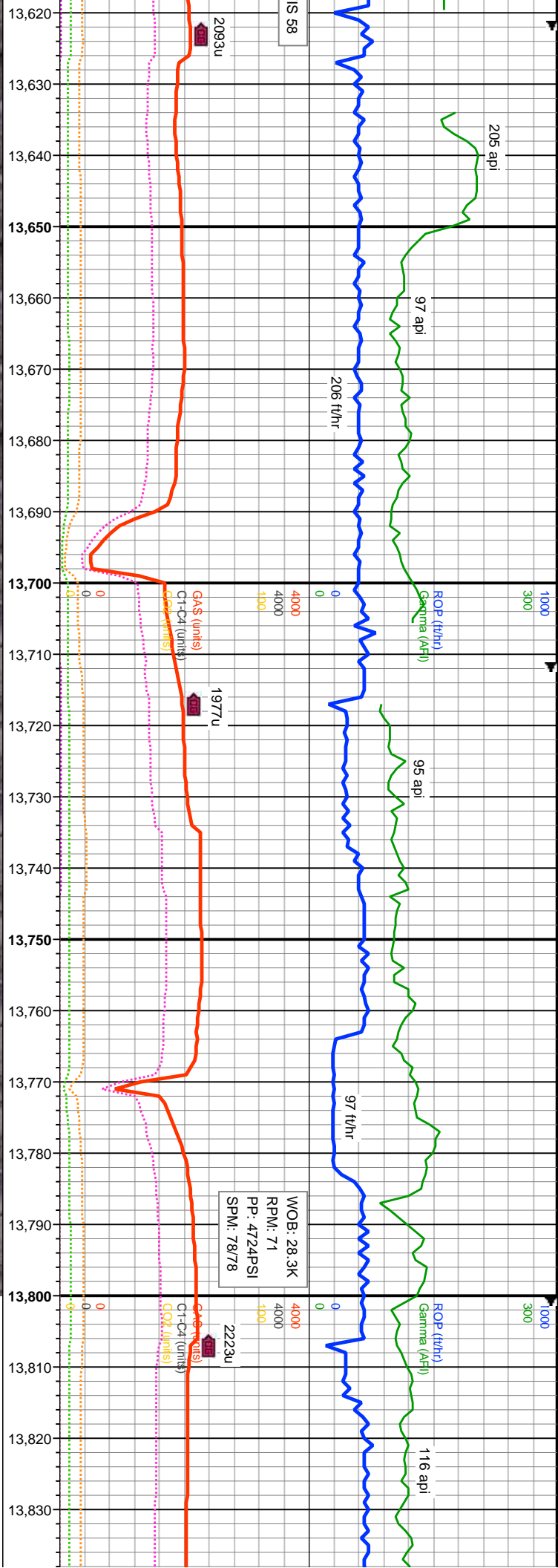
dkgy-dkgy/brn, sl frm-hd, sb blk-ang, com fis, rthy, silty, v arg, calc, tr	80% MRLST: dkgy-dkgy/brn, sl frm-hd, sb blk-ang, com fis, rthy, silty, v arg, calc, mod amt pyrc bent, mnr lncoc, 20% CHK: medgy-gy/brn, drty brn, ip mot, pred intbd wi mrl, mod sft-frm, sb blk-ang, v calc
dkgy-dkgy/brn, sl frm-hd, sb blk-ang, com fis, rthy, silty, v arg, calc, tr	85% MRLST: dkgy-dkgy/brn, sl frm-hd, sb blk-ang, com fis, rthy, silty, v arg, calc, mod amt pyrc bent, mnr lncoc, 20% CHK: medgy-gy/brn, drty brn, ip mot, pred intbd wi mrl, mod sft-frm, sb blk-ang, v calc

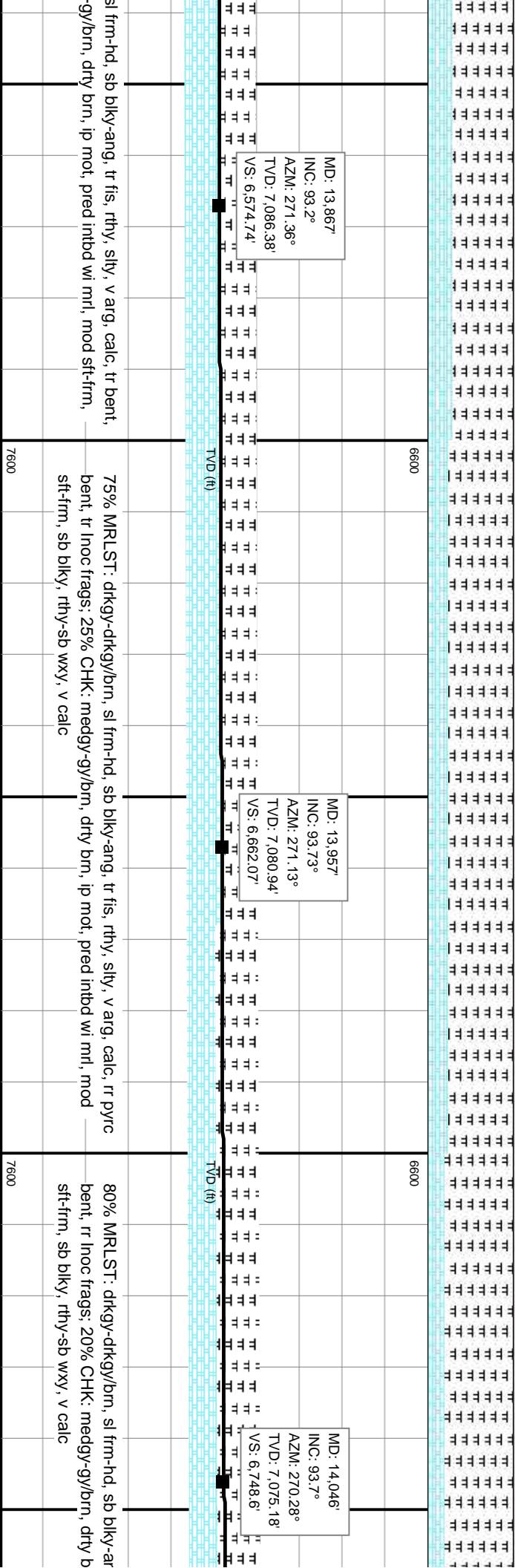
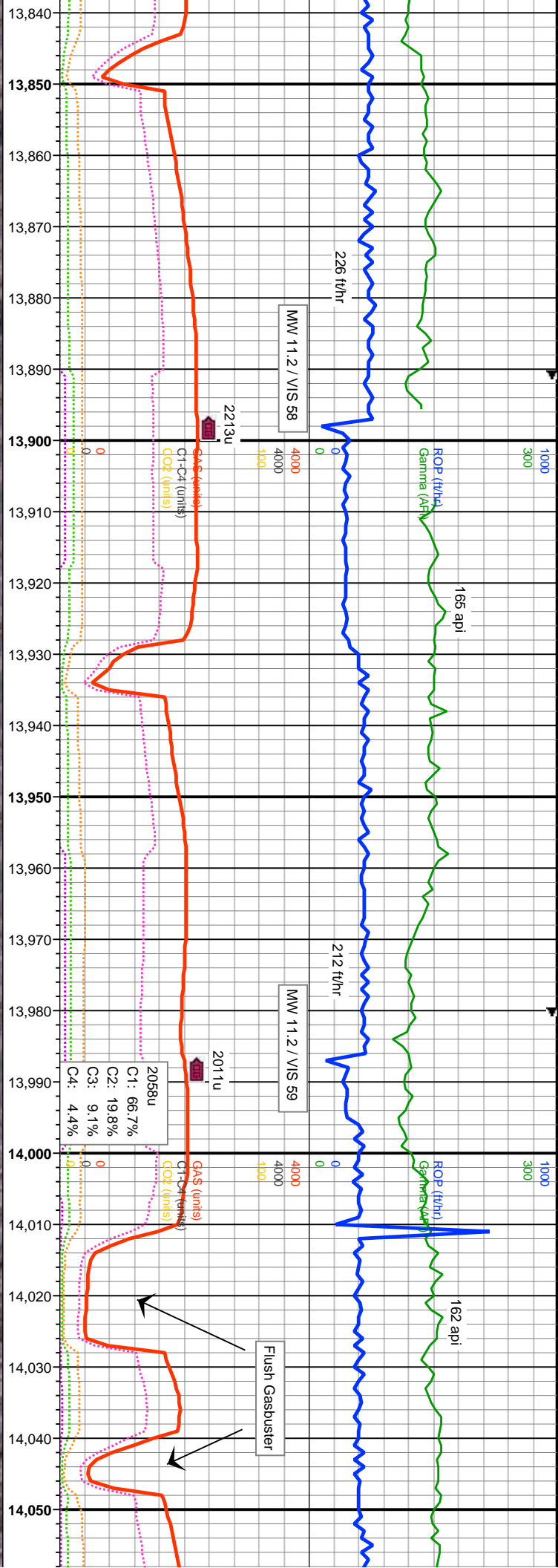


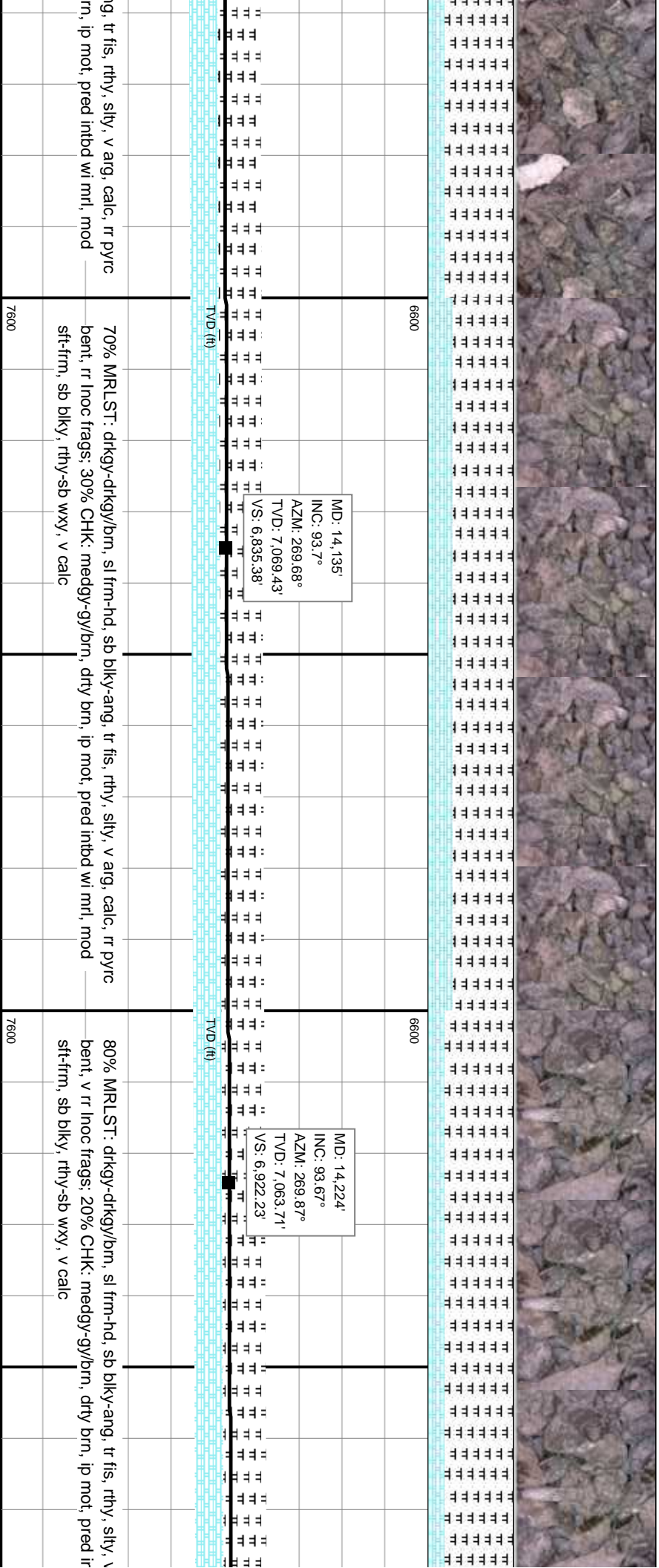
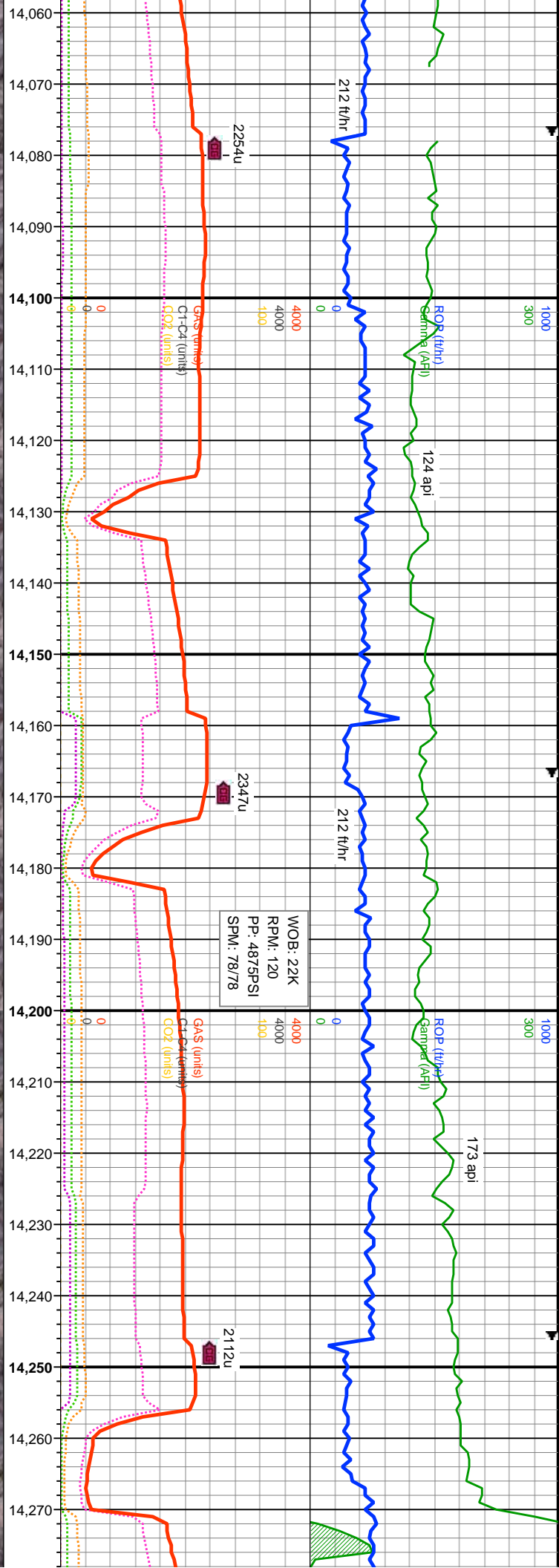


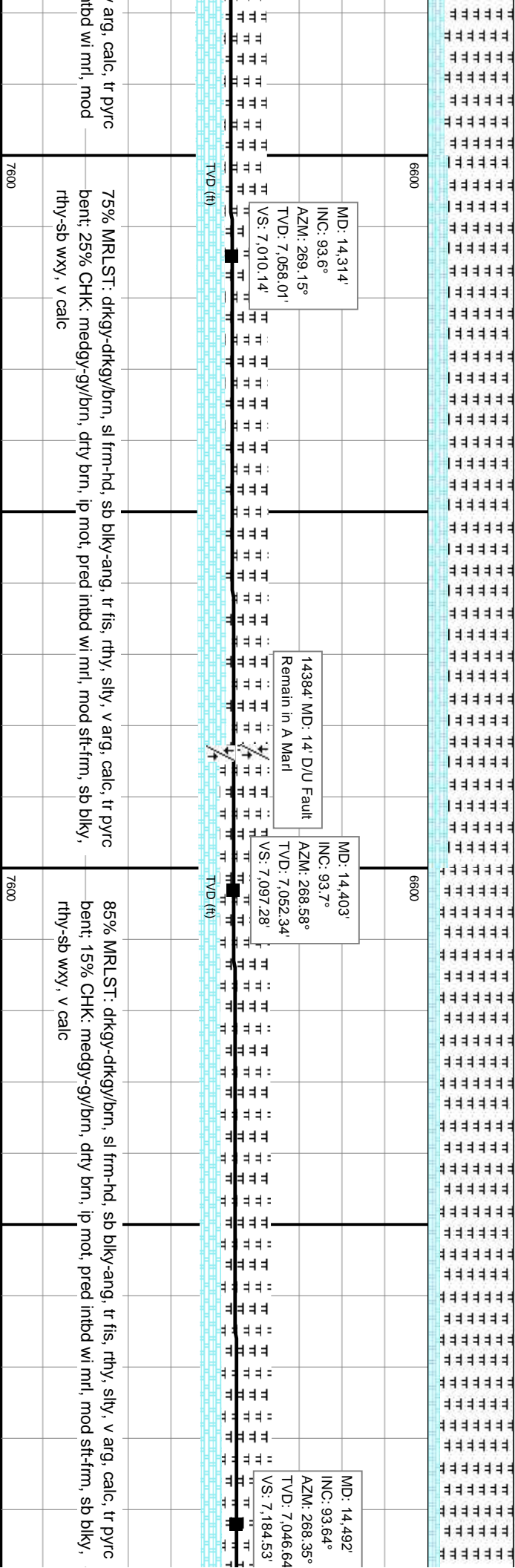
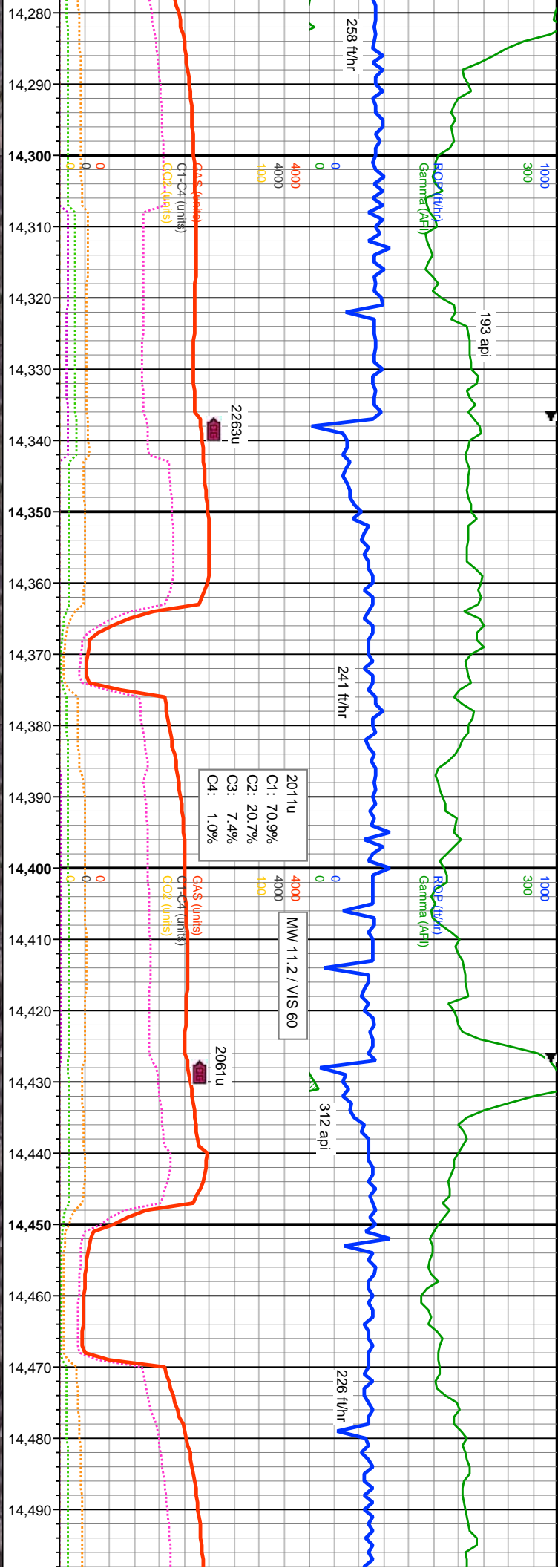


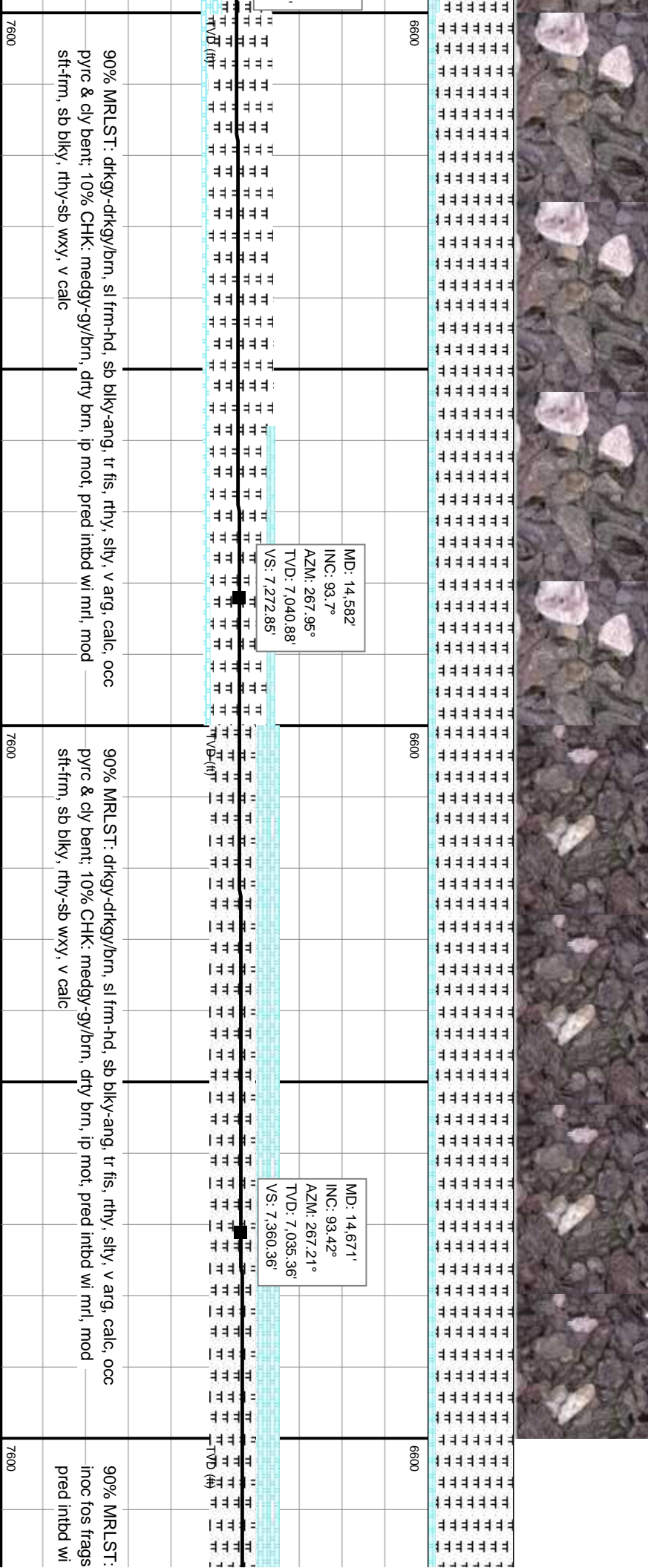
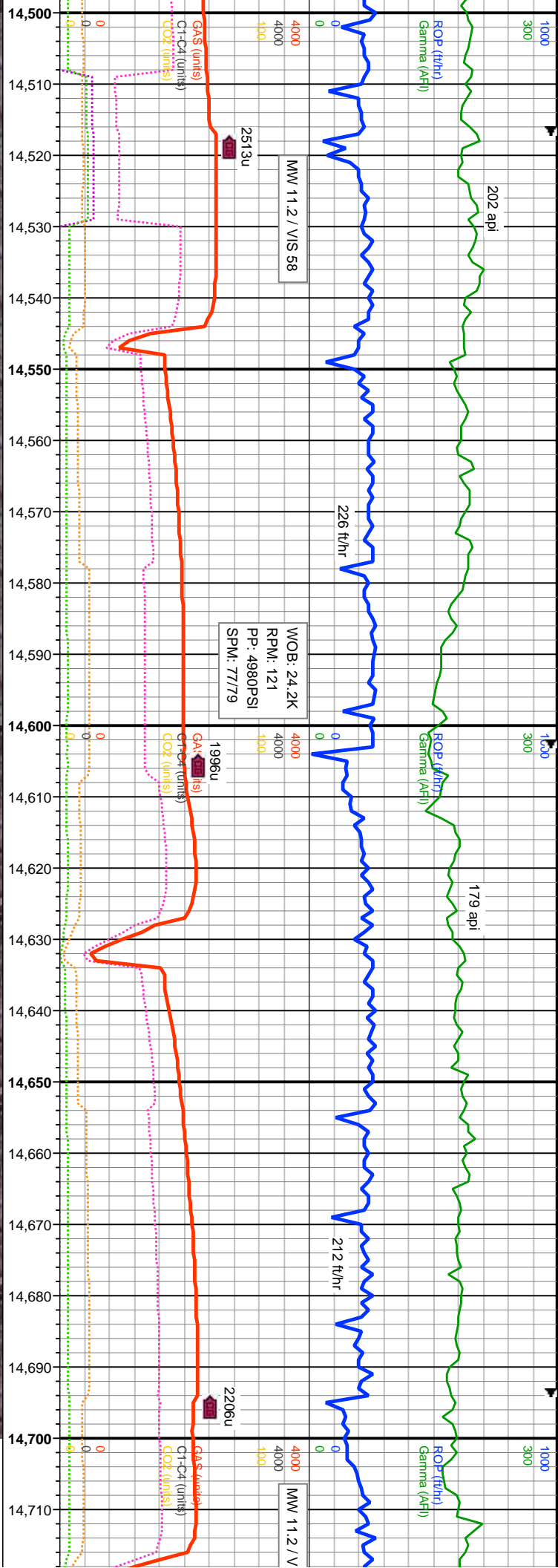


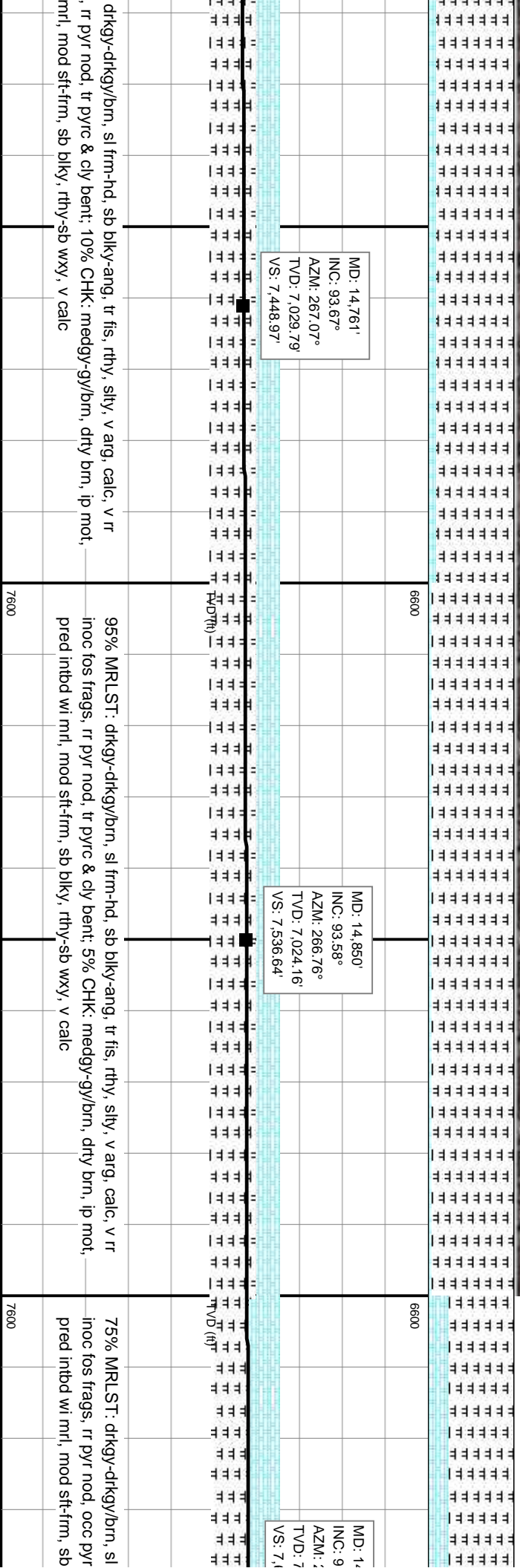
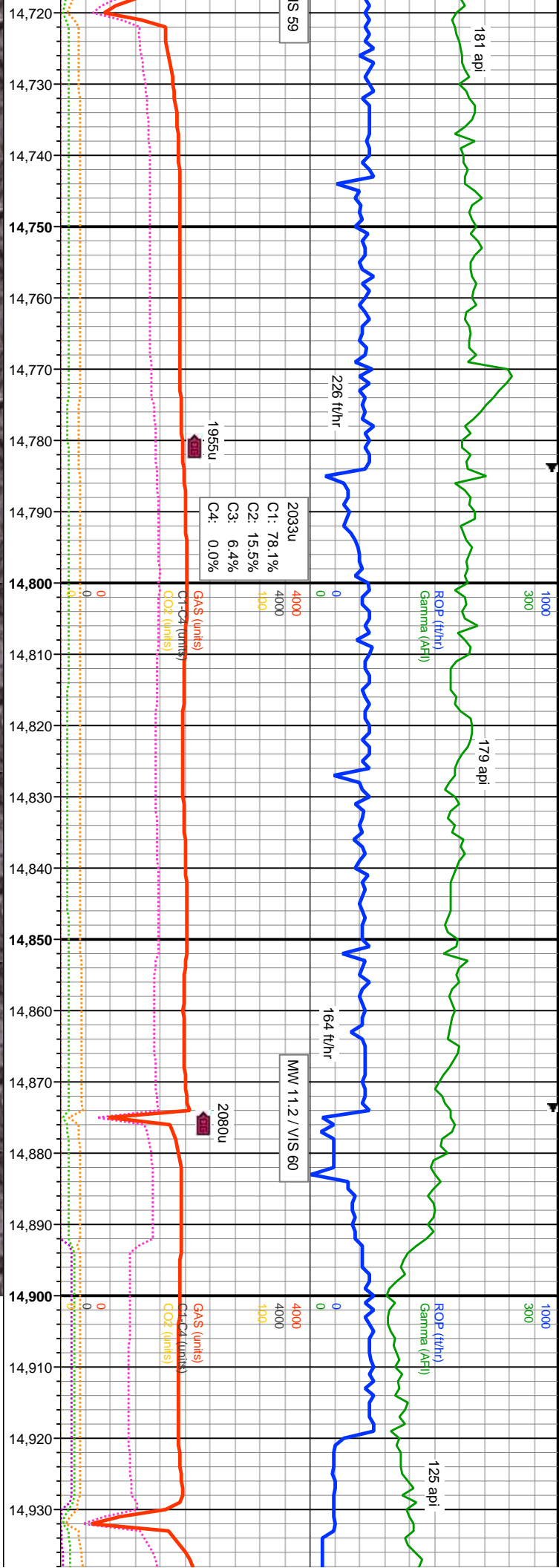


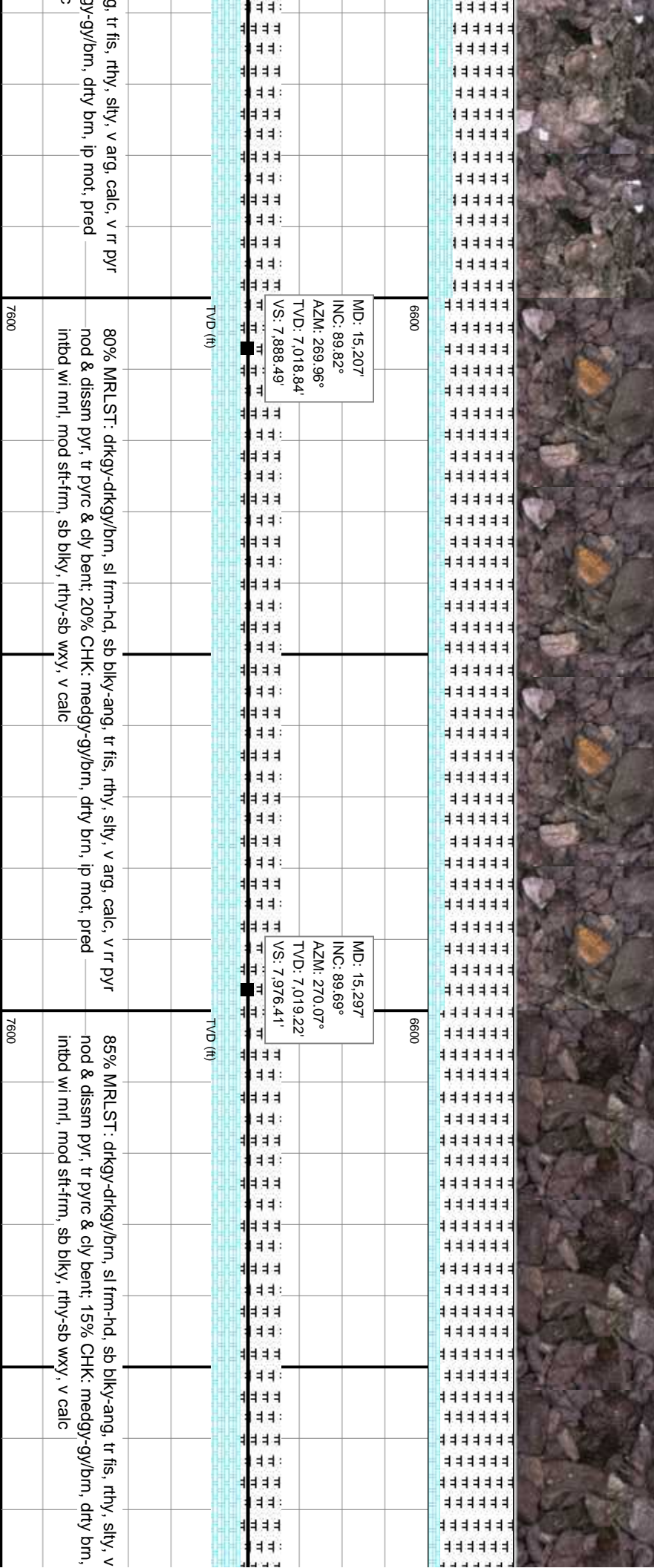
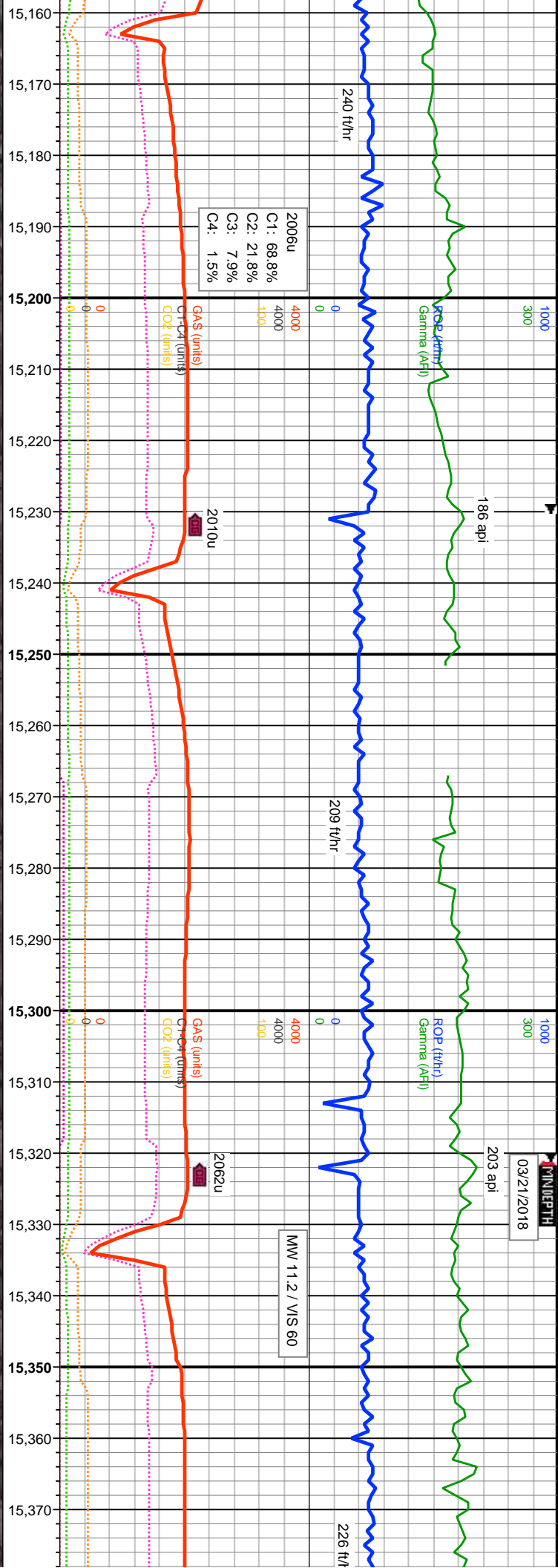


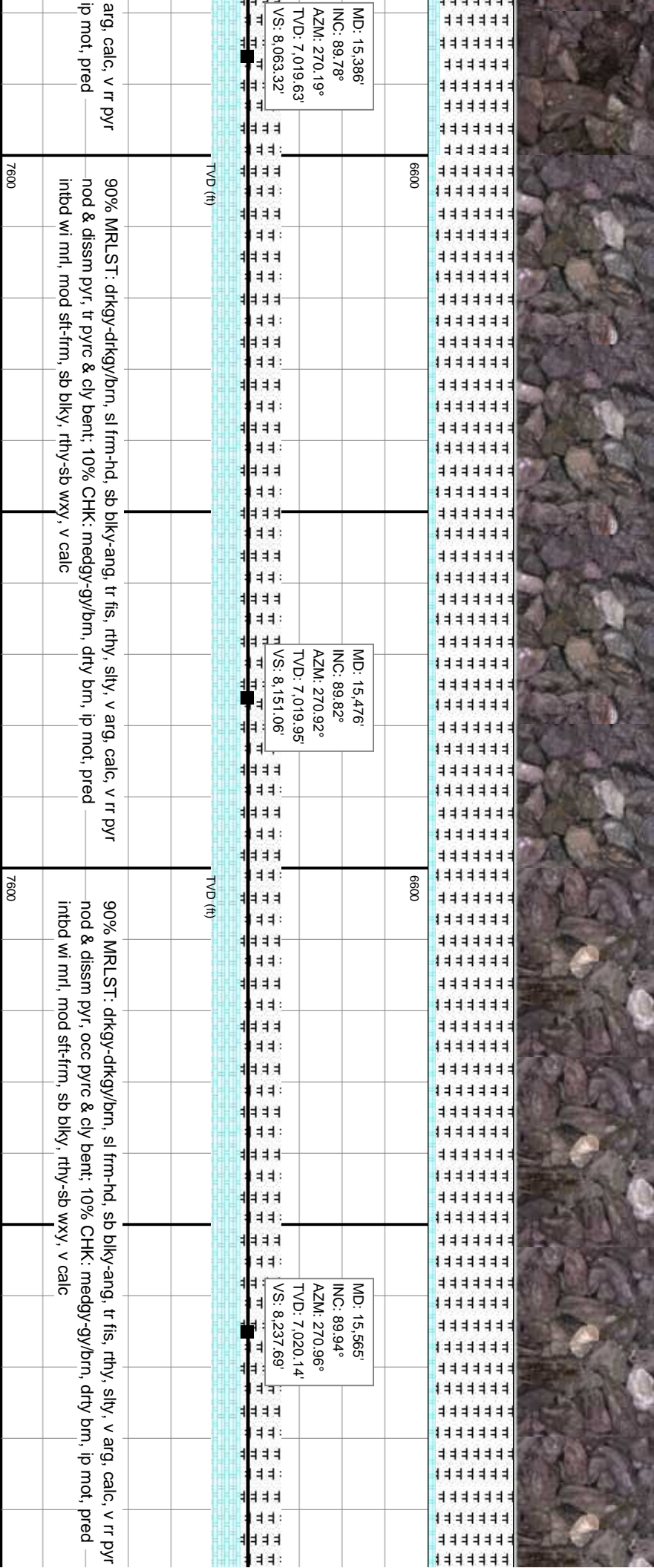
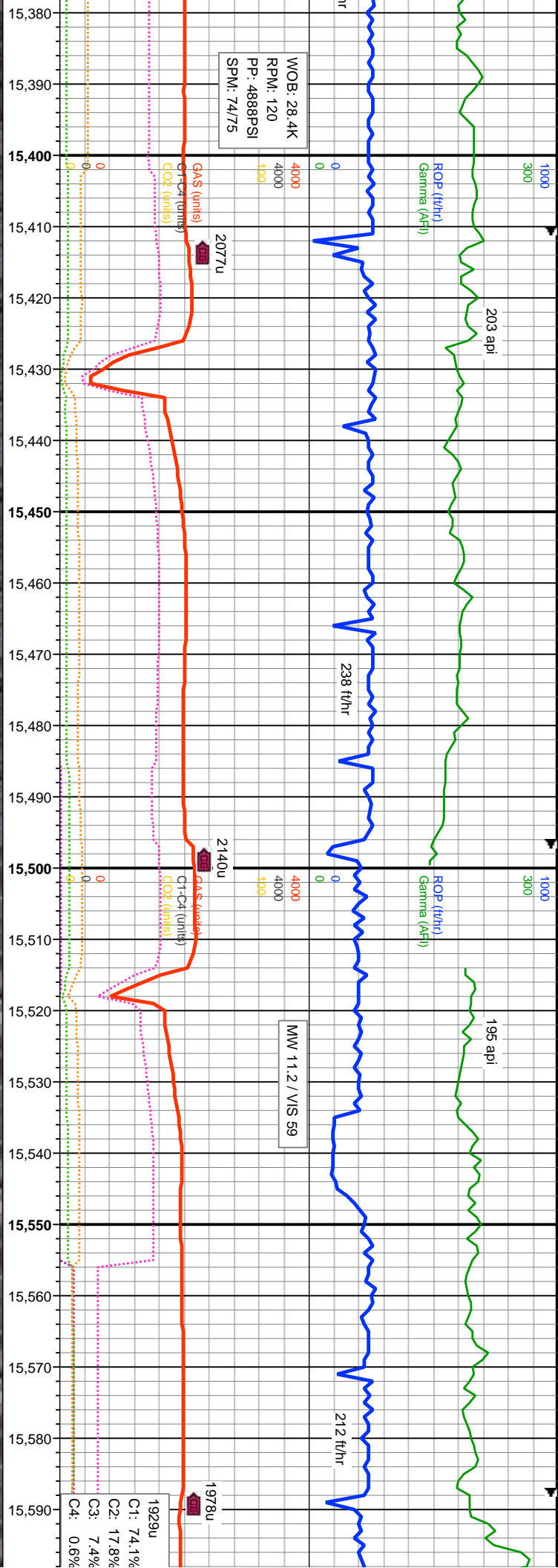


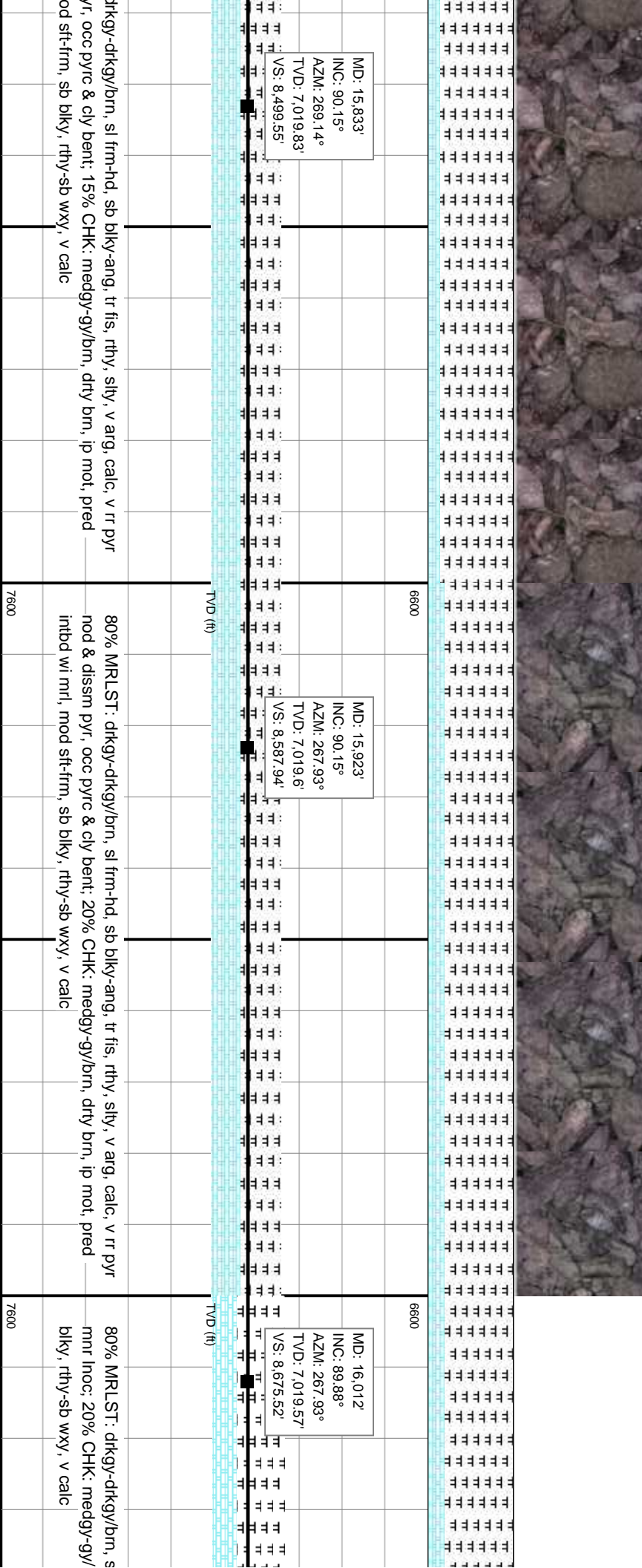
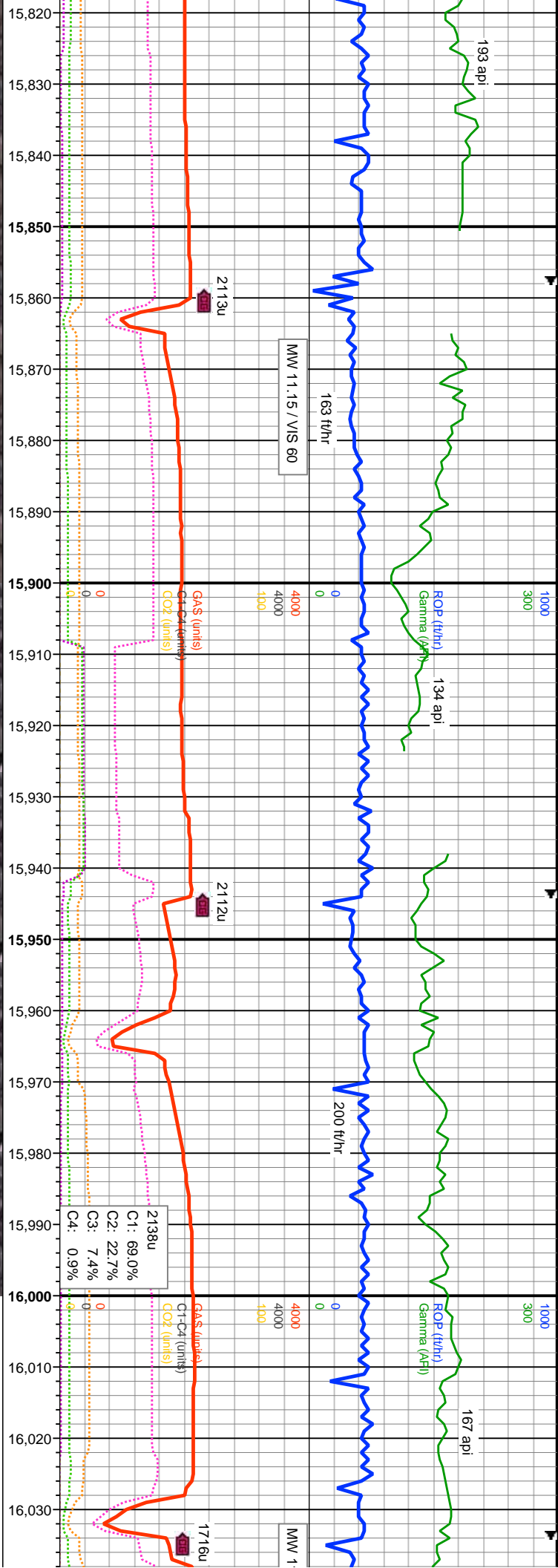


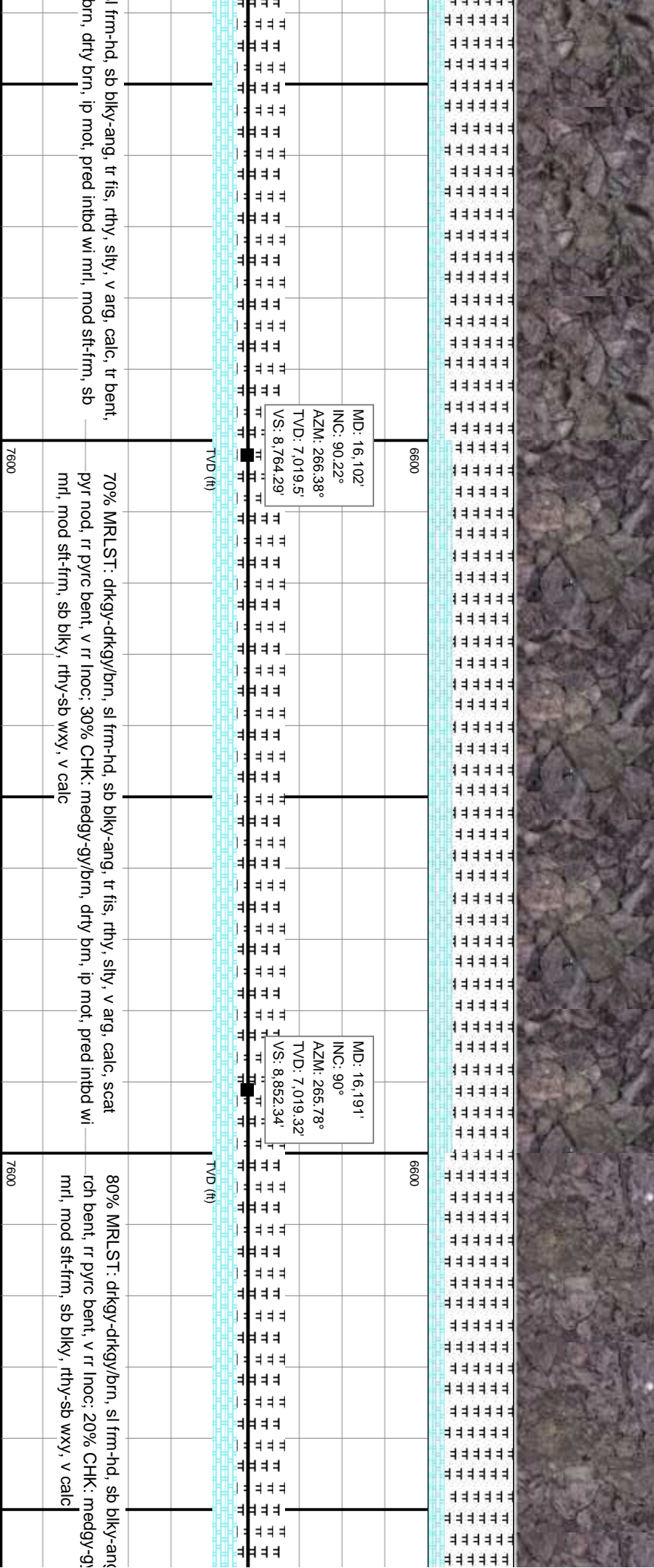
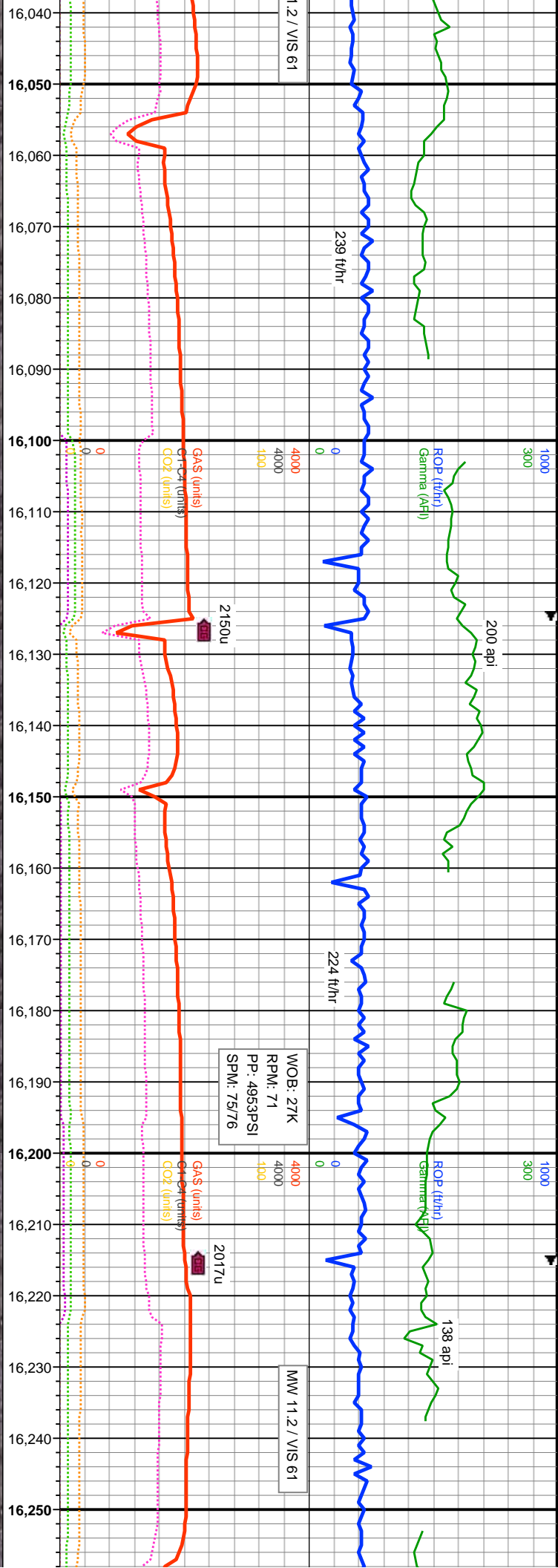


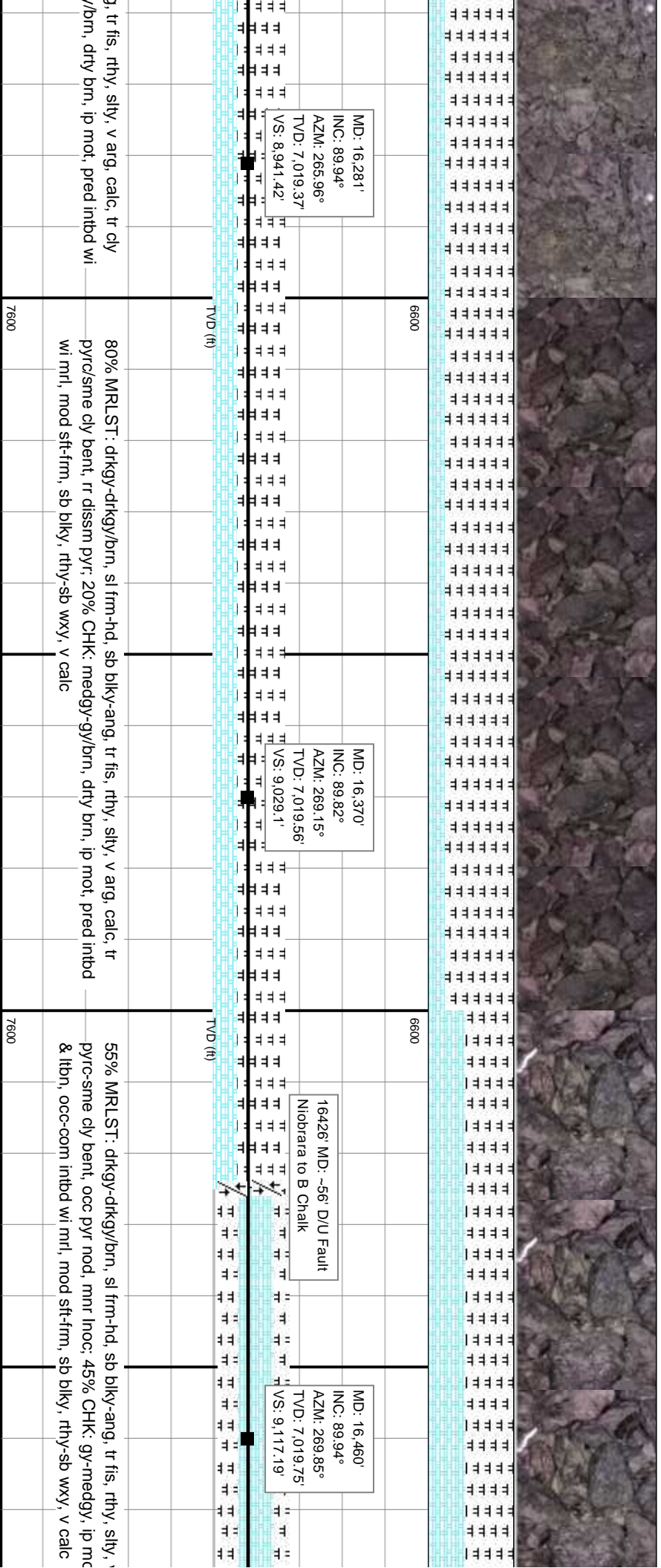
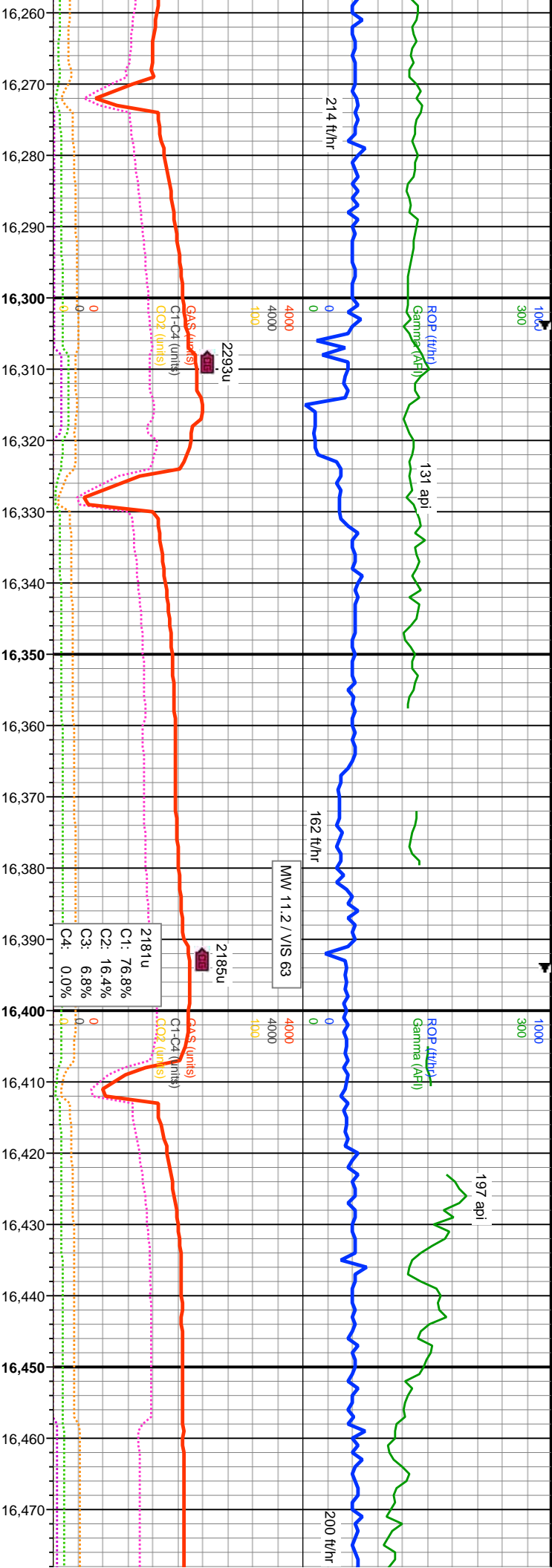


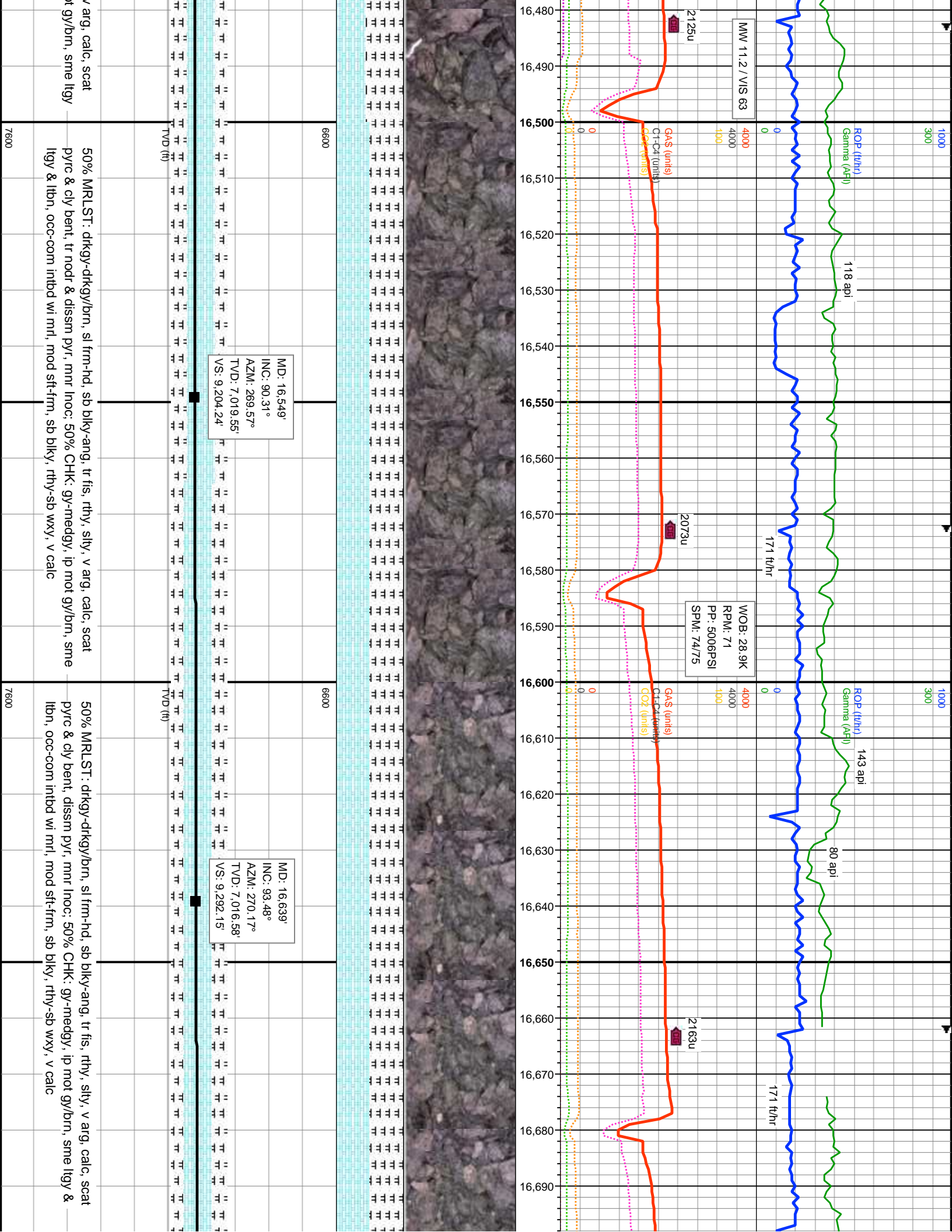


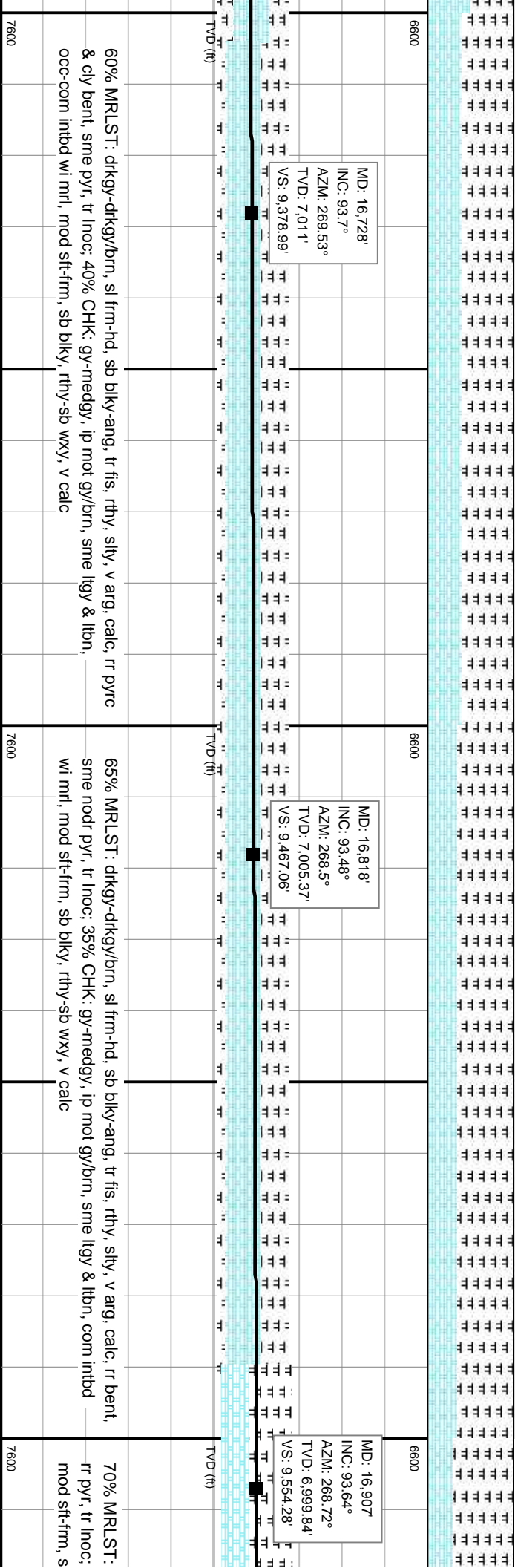
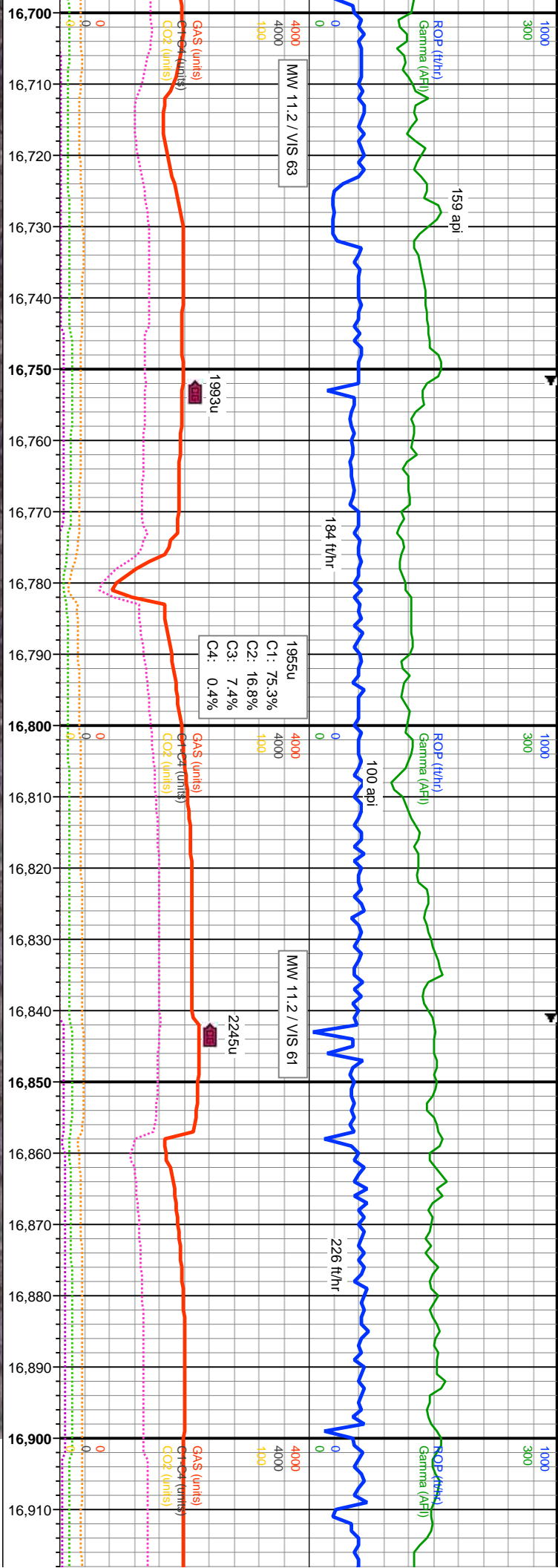


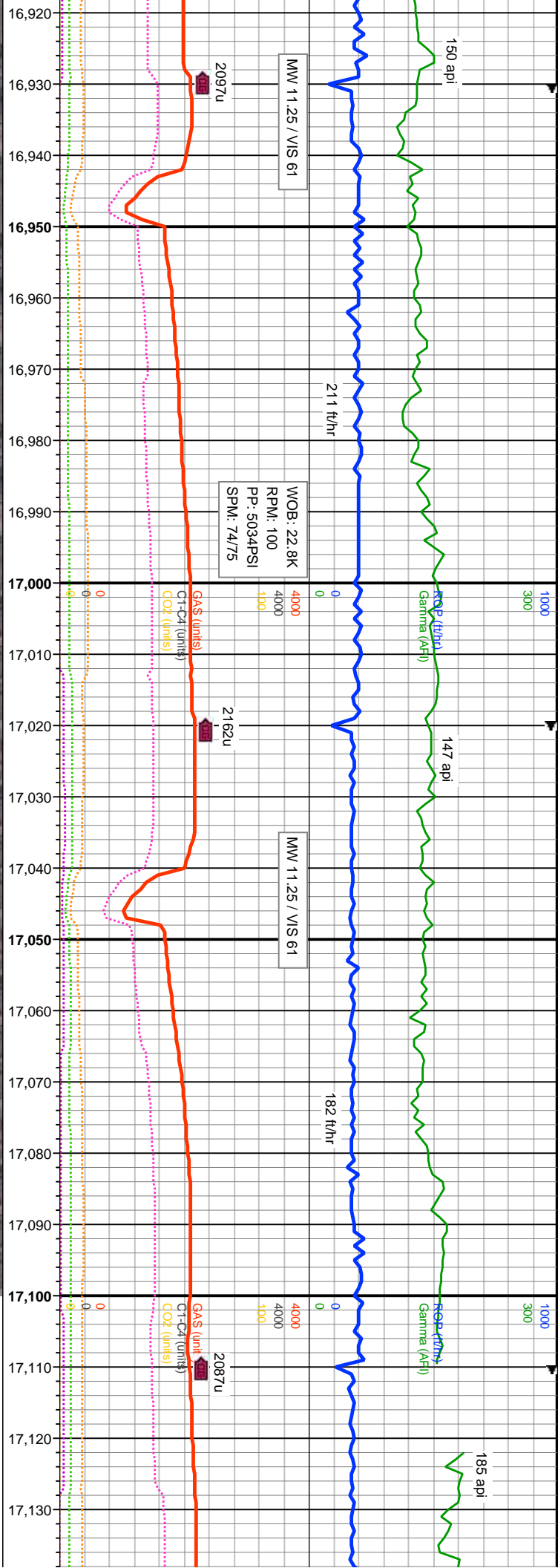




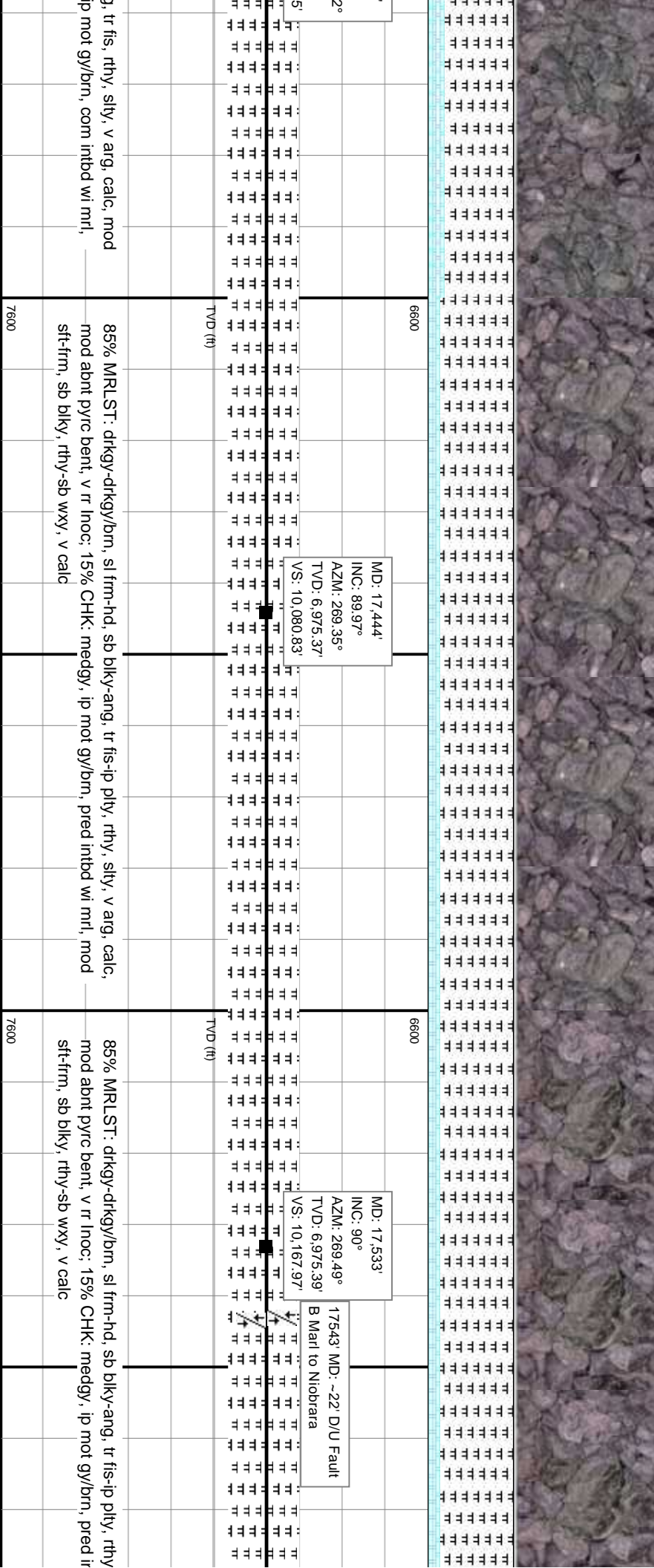
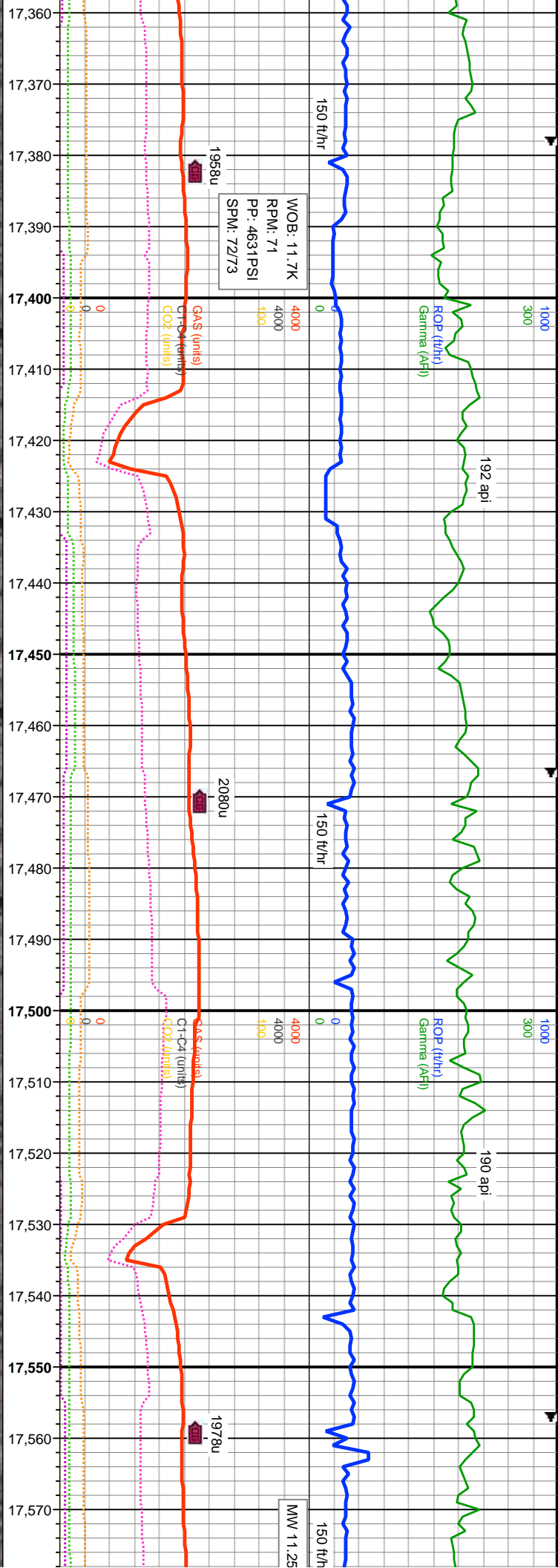


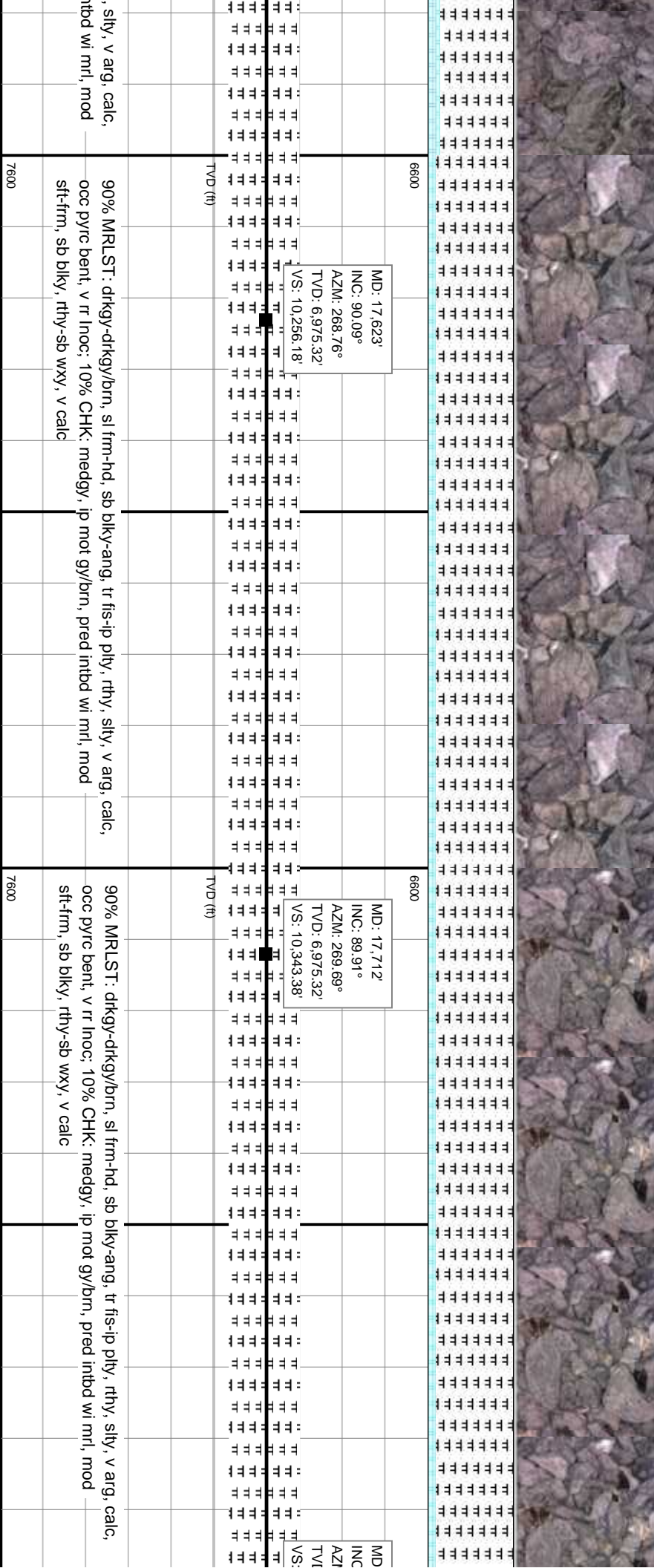
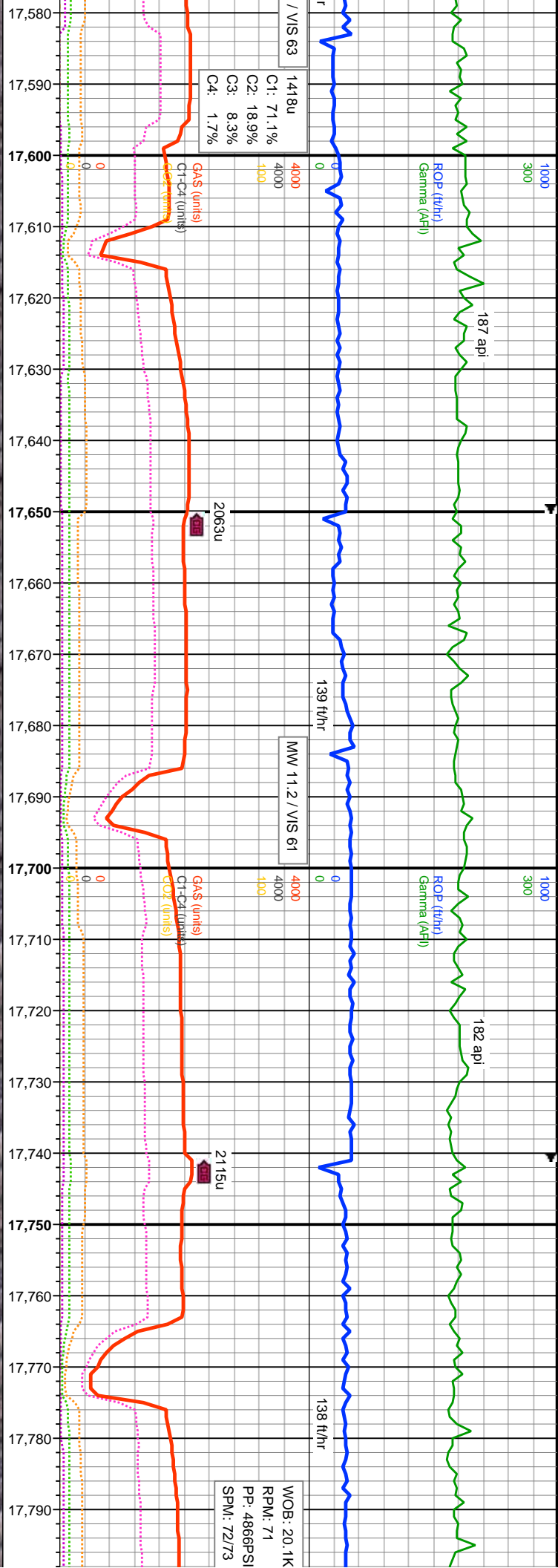


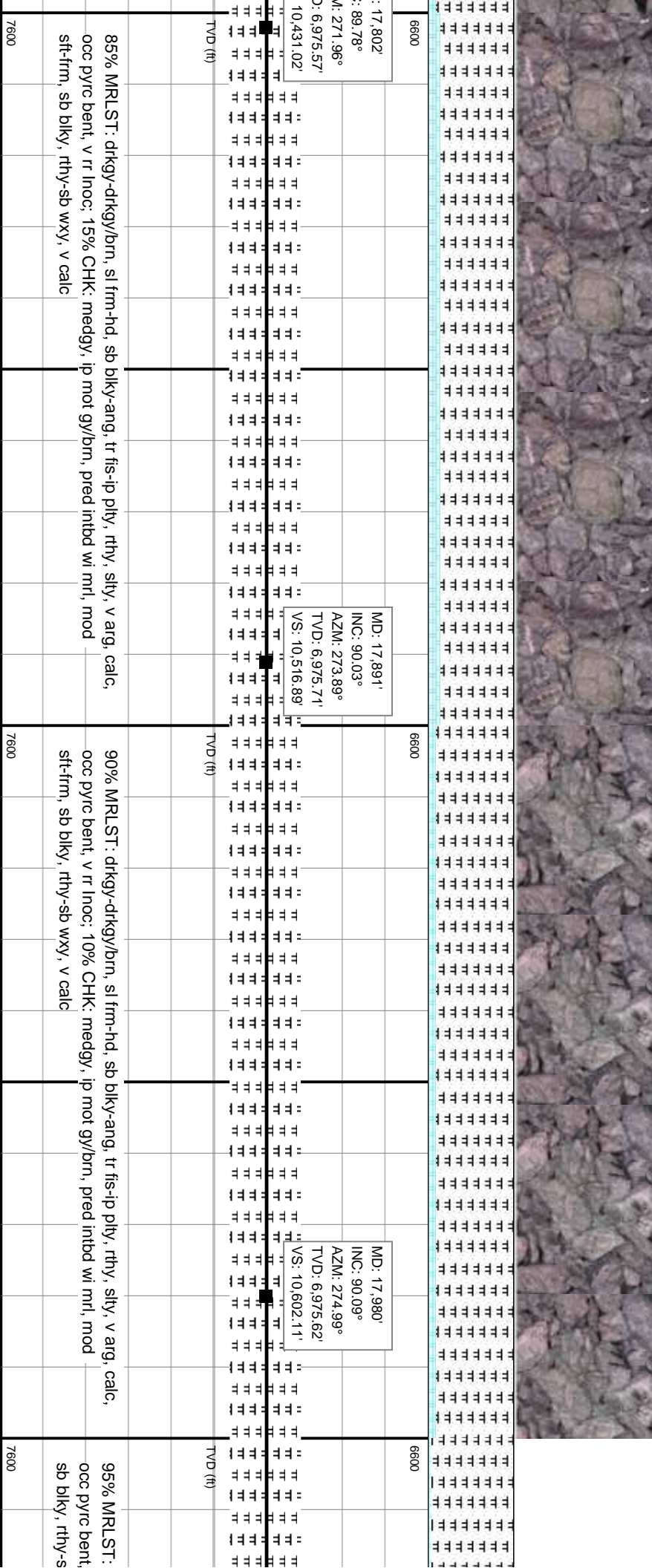
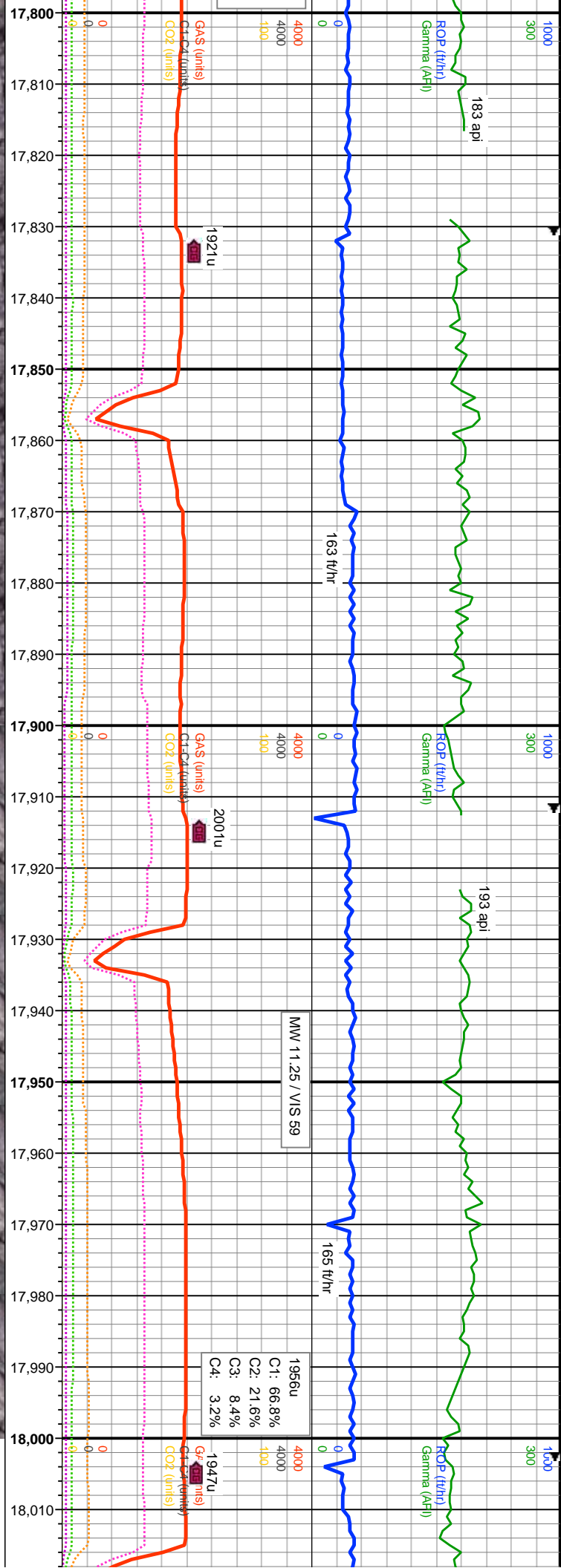


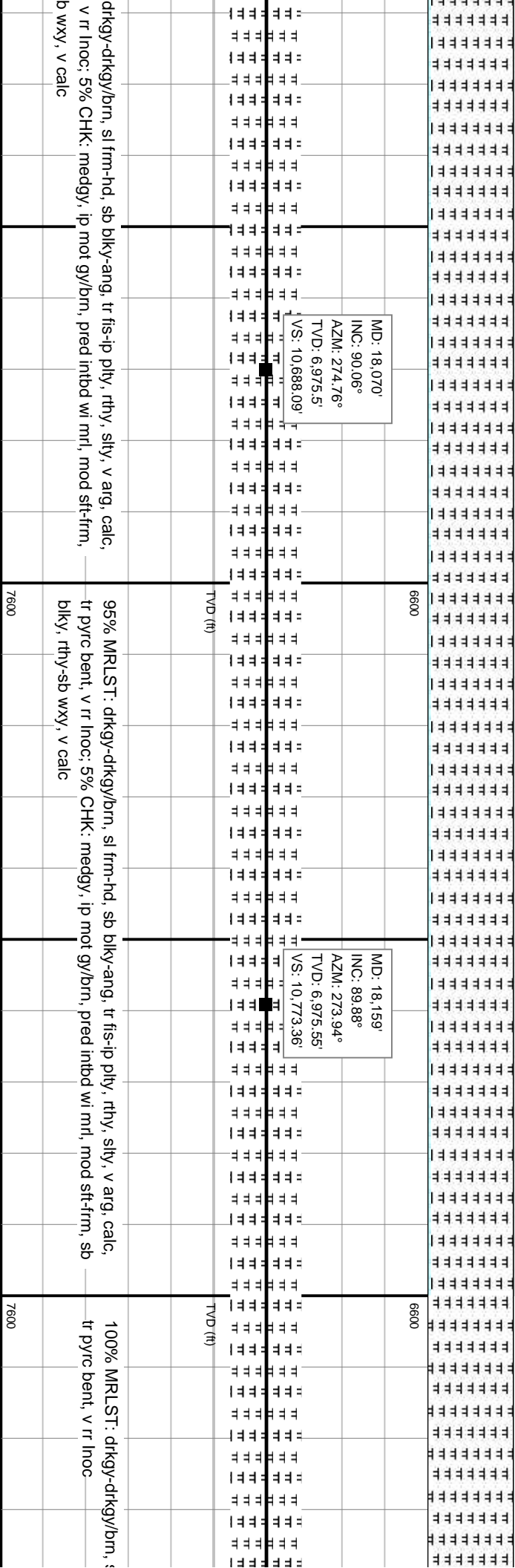
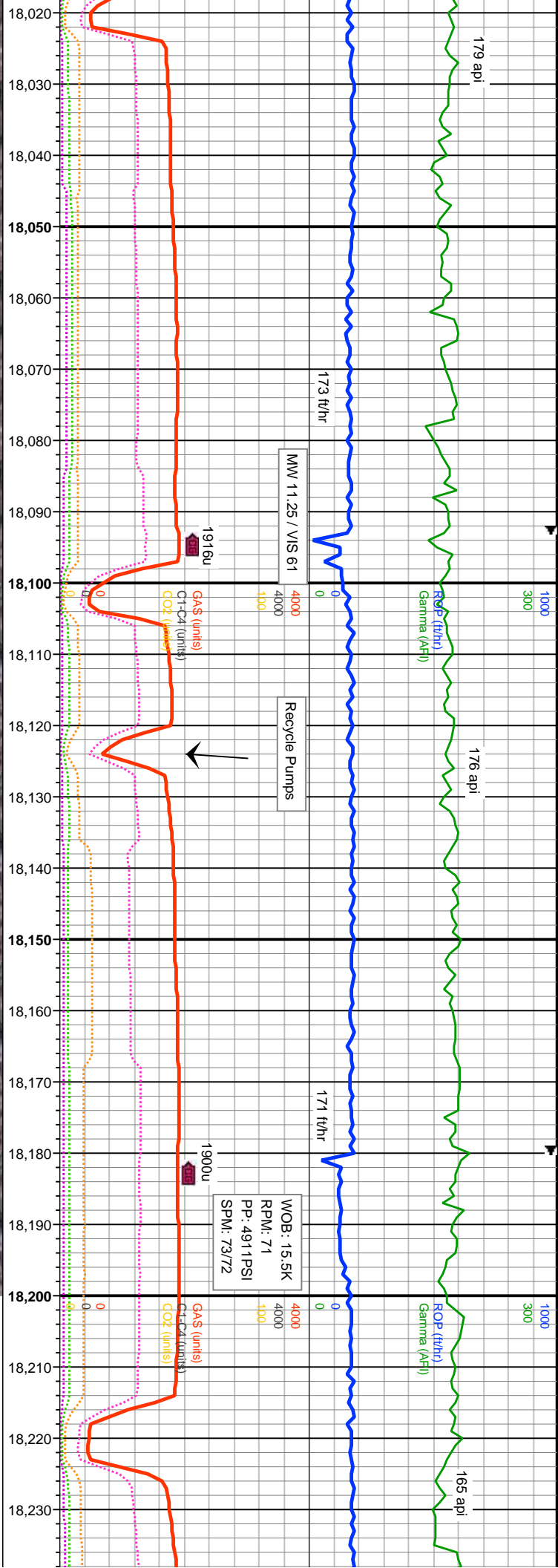


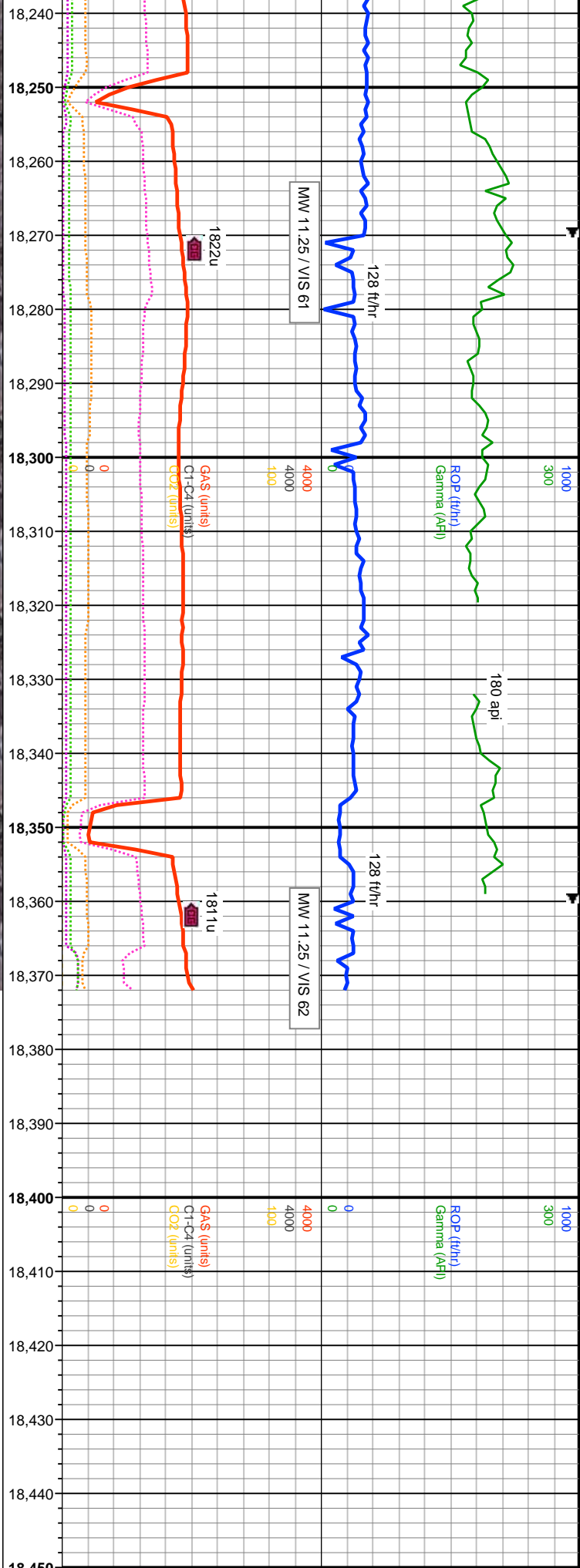
dkgy-dkgy/brn, sl frm-hd, sb biky-ang, tr fis, rthy, silty, v arg, calc, rr bent, 30% CHK: gy-medgy, ip mot gy/brn, sme lly & lbn, com intbd wi mrl, b biky, rthy-sb wxy, v calc		75% MRLST: dkgy-dkgy/brn, sl frm-hd, sb biky-ang, tr fis, rthy, silty, v arg, calc, scat lnoc & nodr pyr, v mnt bent; 25% CHK: gy-medgy, ip mot gy/brn, com intbd wi mrl, mod slt-frm, sb biky, rthy-sb wxy, v calc	
MD: 16,997' INC: 93.51° AZM: 268.94° TVD: 6,994.23' VS: 9,642.41'		MD: 17,086' INC: 93.6° AZM: 268° TVD: 6,988.71' VS: 9,729.67'	
6600		6600	
TVD (ft)		TVD (ft)	
7600		7600	











MD: 18,249' INC: 90° AZM: 273.19° TVD: 6,975.64' VS: 10,859.92'		6600		7600	
MD: 18,338' INC: 89.97° AZM: 273.13° TVD: 6,975.67' VS: 10,945.7'		6600		7600	
MD: 18,348' INC: 89.94° AZM: 272.72° TVD: 6,975.67' VS: 10,955.35'		6600		7600	
MD: 18,372' INC: 89.94° AZM: 272.72° TVD: 6,975.7' VS: 10,978.53'		6600		7600	
TD Reached, 18372' MD, 21.48 MDT, 03/21/2018 Thank you for using Terra Guidance, LLC.		6600		7600	
Projection To Bit		6600		7600	
100% MRLST: dtkgy-dtkgy/brn, sl frm-hd, sb bkly-ang, tr fis-ip pfty, rthy, slty, v arg, calc, v rr Inoc		6600		7600	
sl frm-hd, sb bkly-ang, tr fis-ip pfty, rthy, slty, v arg, calc,		6600		7600	