



Scale: 5" / 100'

Measured Depth Log

Well Name Postle IC 09-142HC

Location SECTION 11, T3N, R68W

State COLORADO

Country UNITED STATES

API Number 051234738200

Geographic Region DJ BASIN

County WELD

Rig Number PD 460

AFE # 20DCC0083

Field WATTENBERG

Ground Elevation 4977.0'

K.B. Elevation 4997.0'

Logged Interval 6000' MD To 18341' MD

Total Depth 18341' MD

Formation CODELL

Type of Drilling Fluid OIL BASED MUD

Operator

Company Great Western Operating Company, LLC

Address 1001 17th Street, Suite 2000
Denver, CO 80202



Geologist

Name Joey Luce, Omar Davalos, Zac Olds, Blake Stacey

Company Terra Guidance

Address 67 W. Floyd Ave. Ste 105
Englewood, CO 80110
(970) 260-5408



Other

MUDLOG START DATE 05/06/2020

MUDLOG END DATE 05/10/2020

Rock Types



Accessories

Stringer
 CHALK

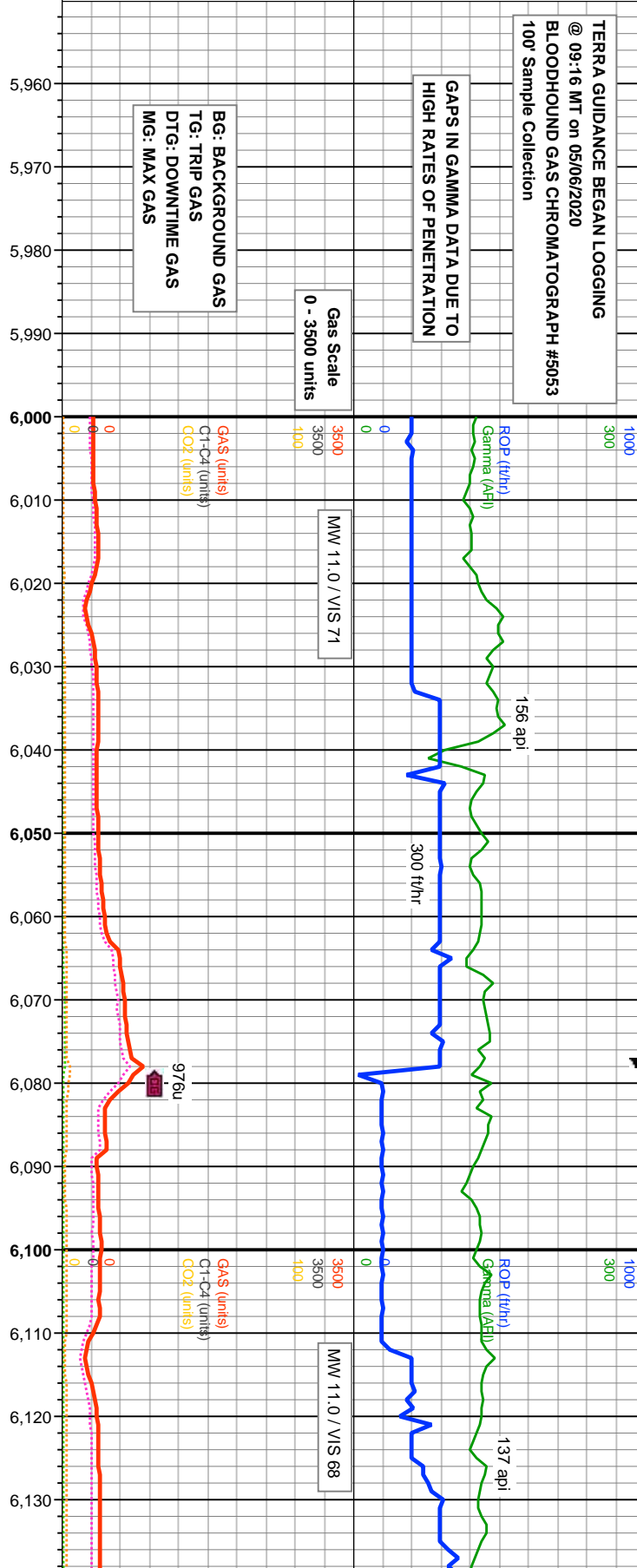
Other Symbols

Engineering

- BIT
- CONNECTION (RIGHT)
- CONNECTION GAS
- FAULT
- MIN DEPTH
- TRIP GAS

TERRA GUIDANCE BEGAN LOGGING
 @ 09:16 MT on 05/06/2020
 BLOODHOUND GAS CHROMATOGRAPH #5053
 100' Sample Collection

Data Curves
 ROP —
 Gamma —



Total Gas & Chromatograph

- GAS —
- C1 —
- C2 —
- C3 —
- C4 —
- CO2 —

Depth

Images

% Lithology

Well Bore
 TVD —

Bit #: 1
 Size: 8.5"
 Make: Ulterra
 Model: SPL516
 Jets: 4x11, 4x12
 S/N: 52779
 Depth In: 1,552'

TVD Scale
 5500' - 8500'

TVD (ft)

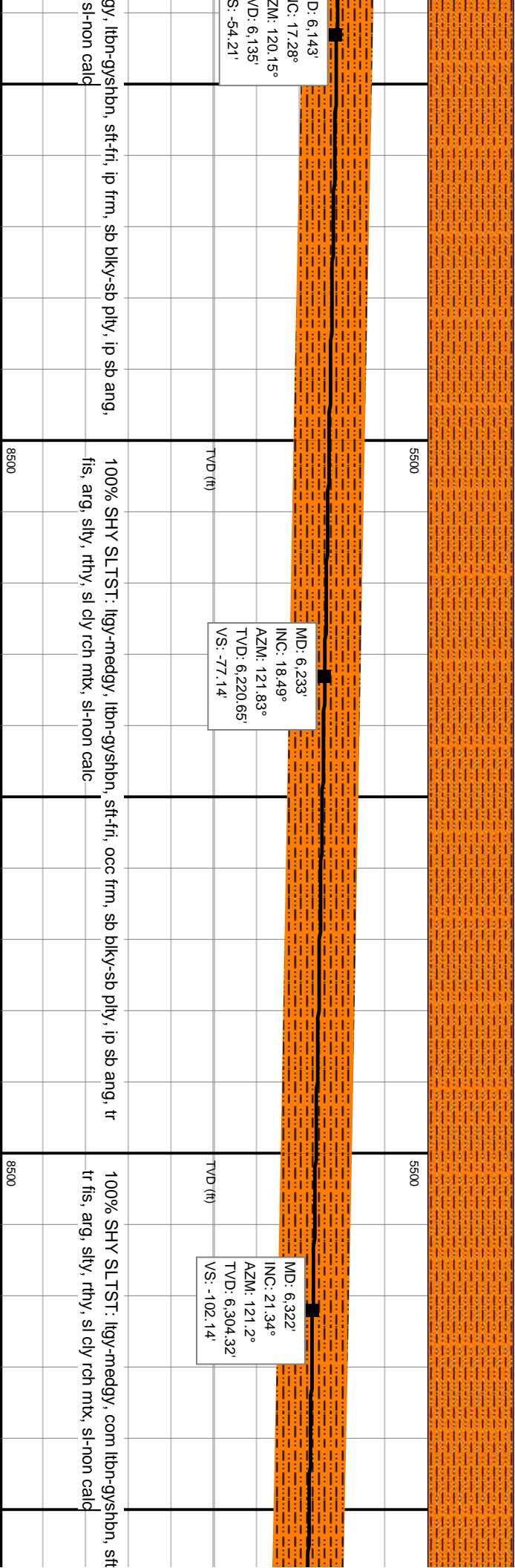
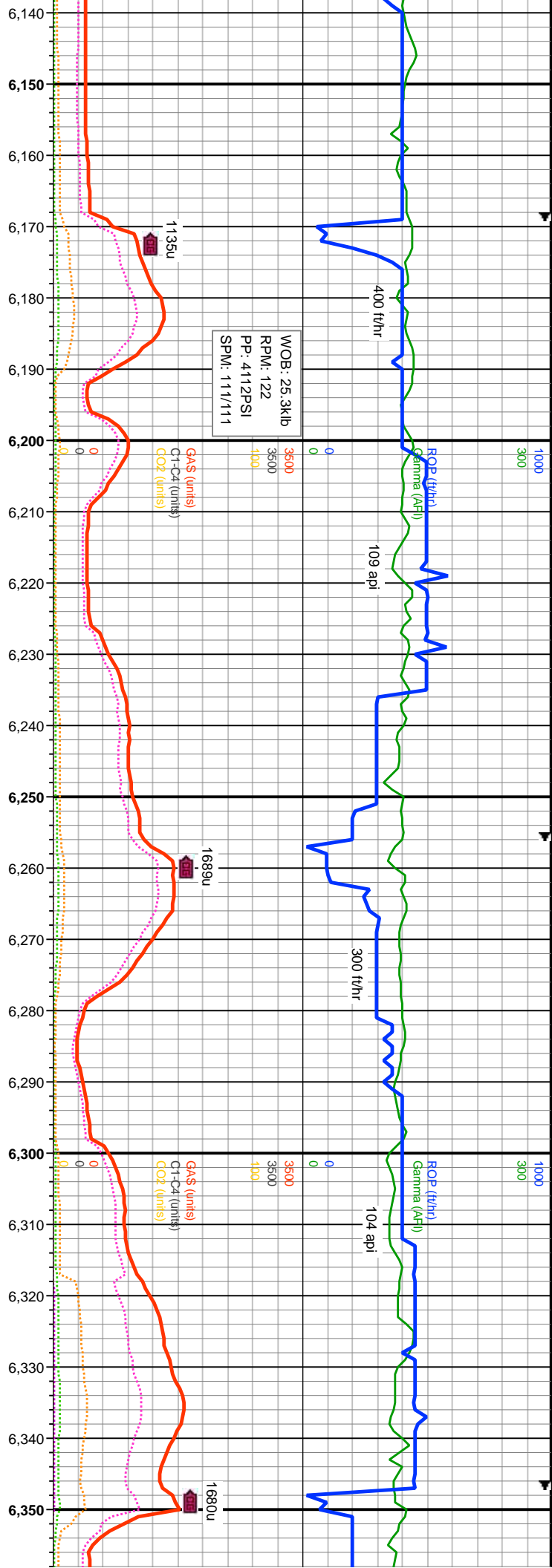
MD: 6.053'
 INC: 13.8°
 AZM: 124.12°
 TVD: 6,048.3'
 VS: -34.44'

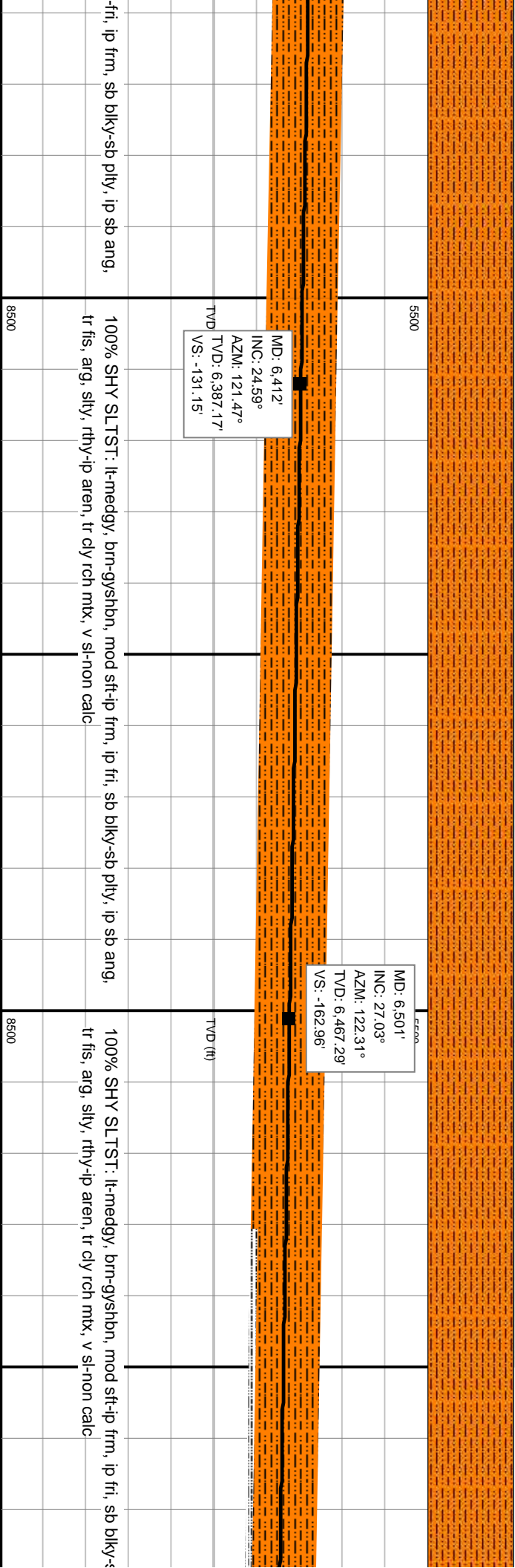
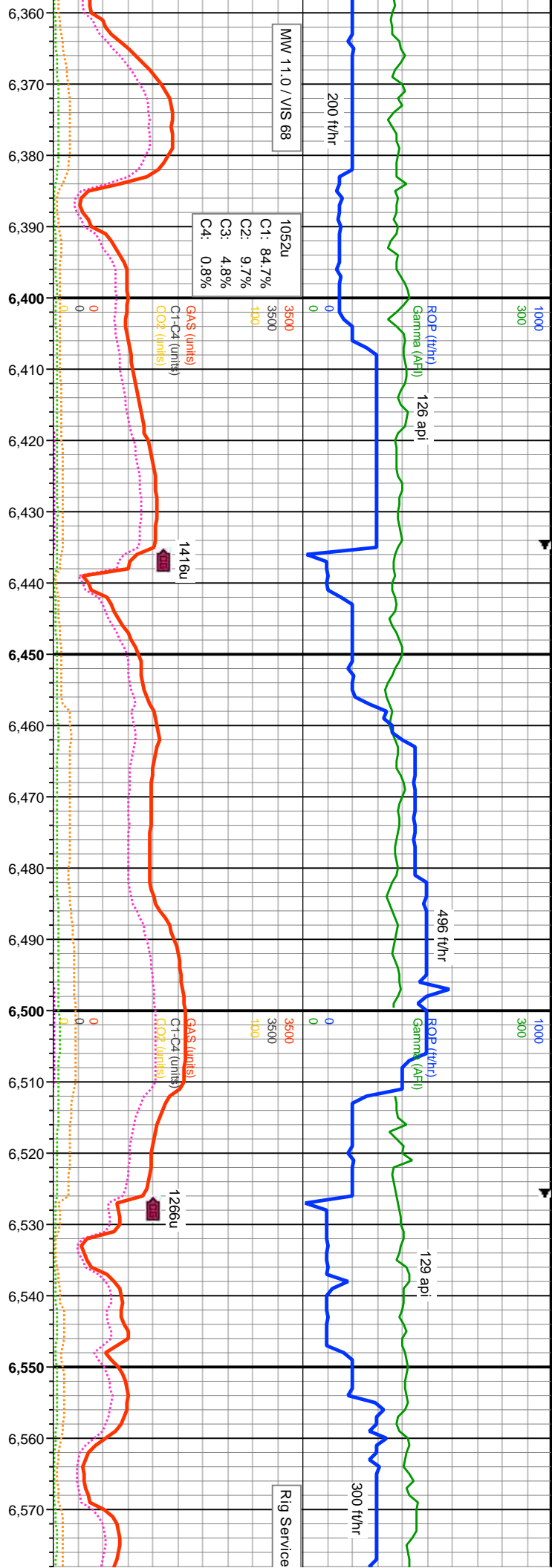
TVD (ft)

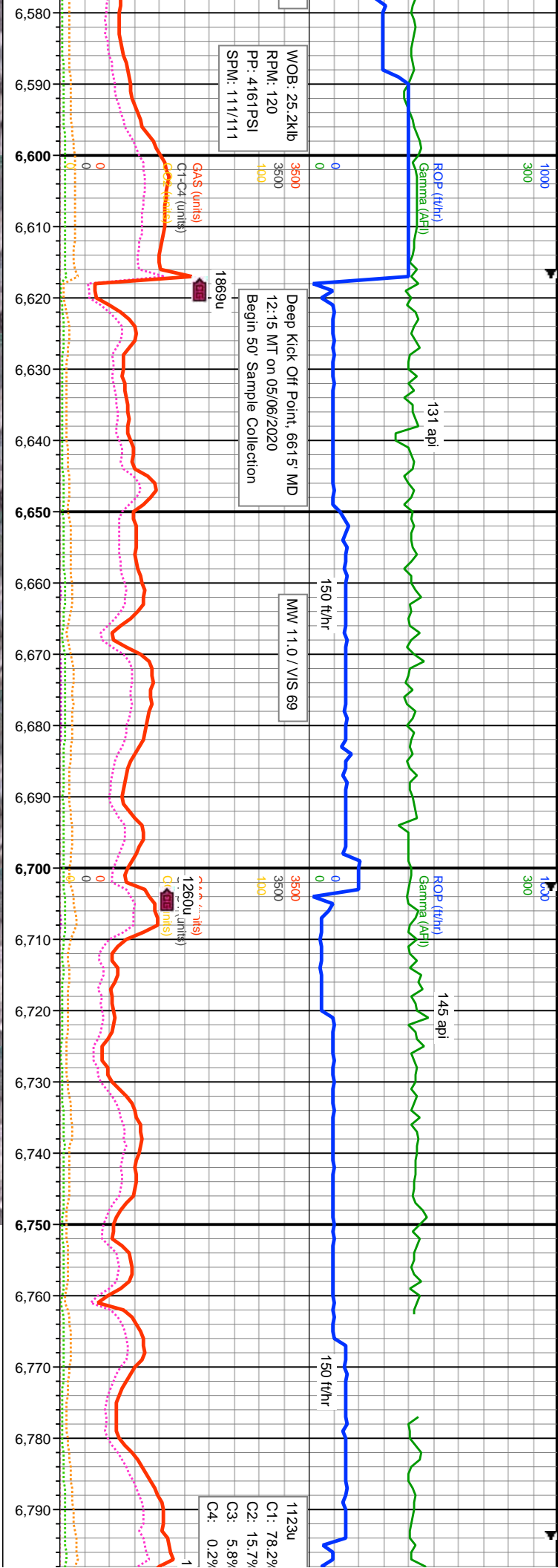
100% SHY SLTST: Itgy-sme medgy, Itbn-gyshbn, sft-v fri, ip frm, sb blkv-sb plty, ip sb ang, tr fis, arg, silty, rthy, sl cly rch mtX, sl-non calc

100% SHY SLTST: Itgy-sme med tr fis, arg, silty, rthy, sl cly rch mtX,

M
 IN
 A
 T
 V





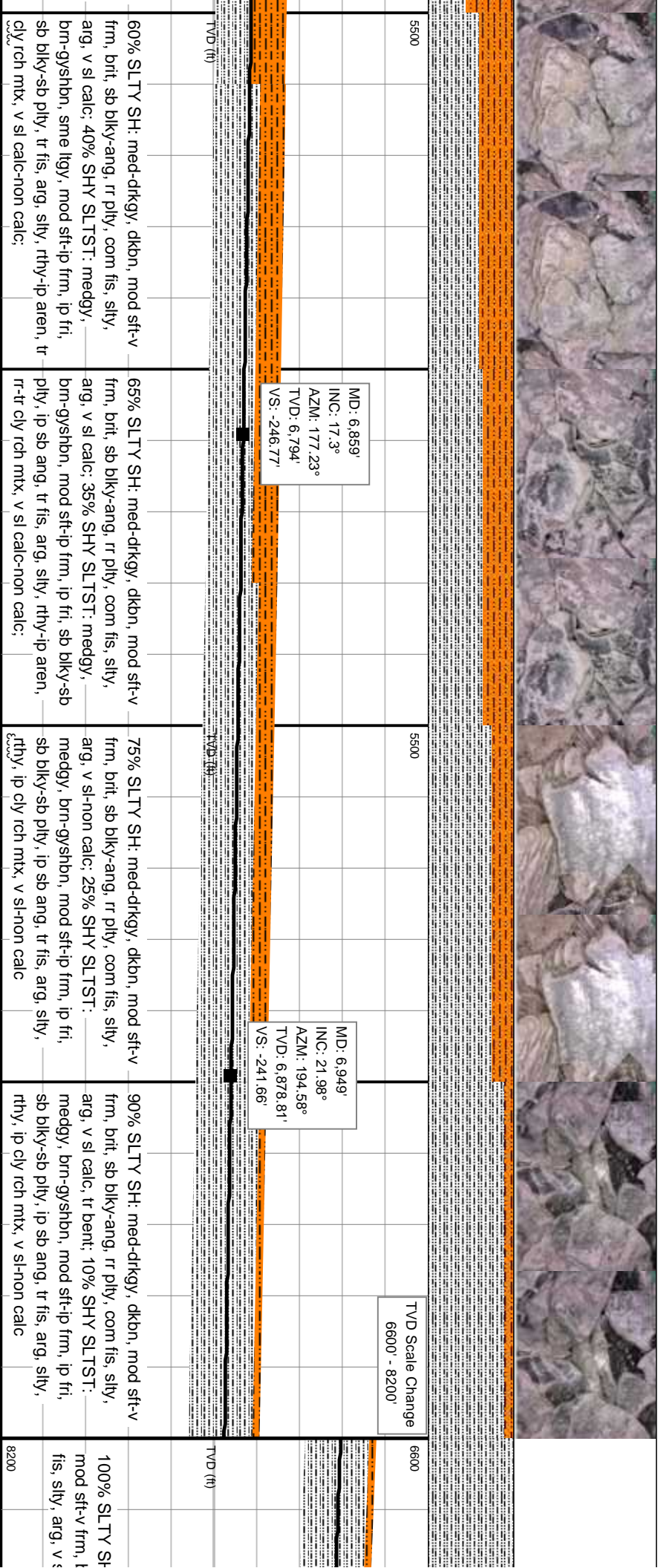
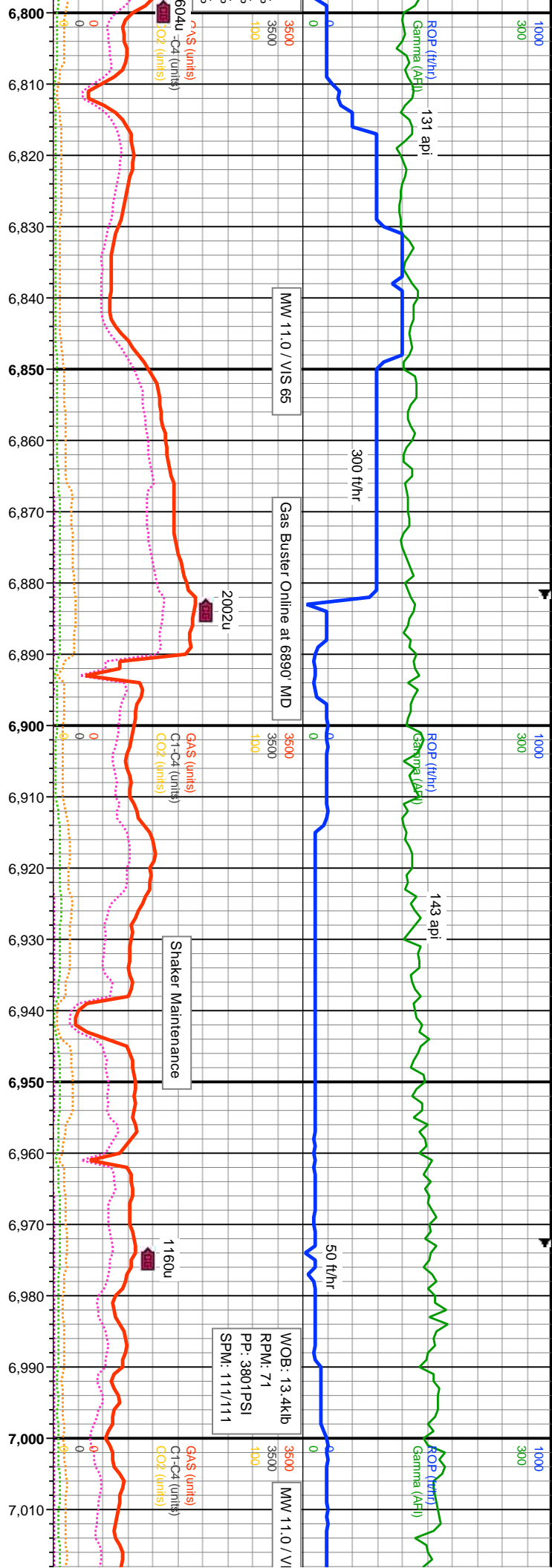


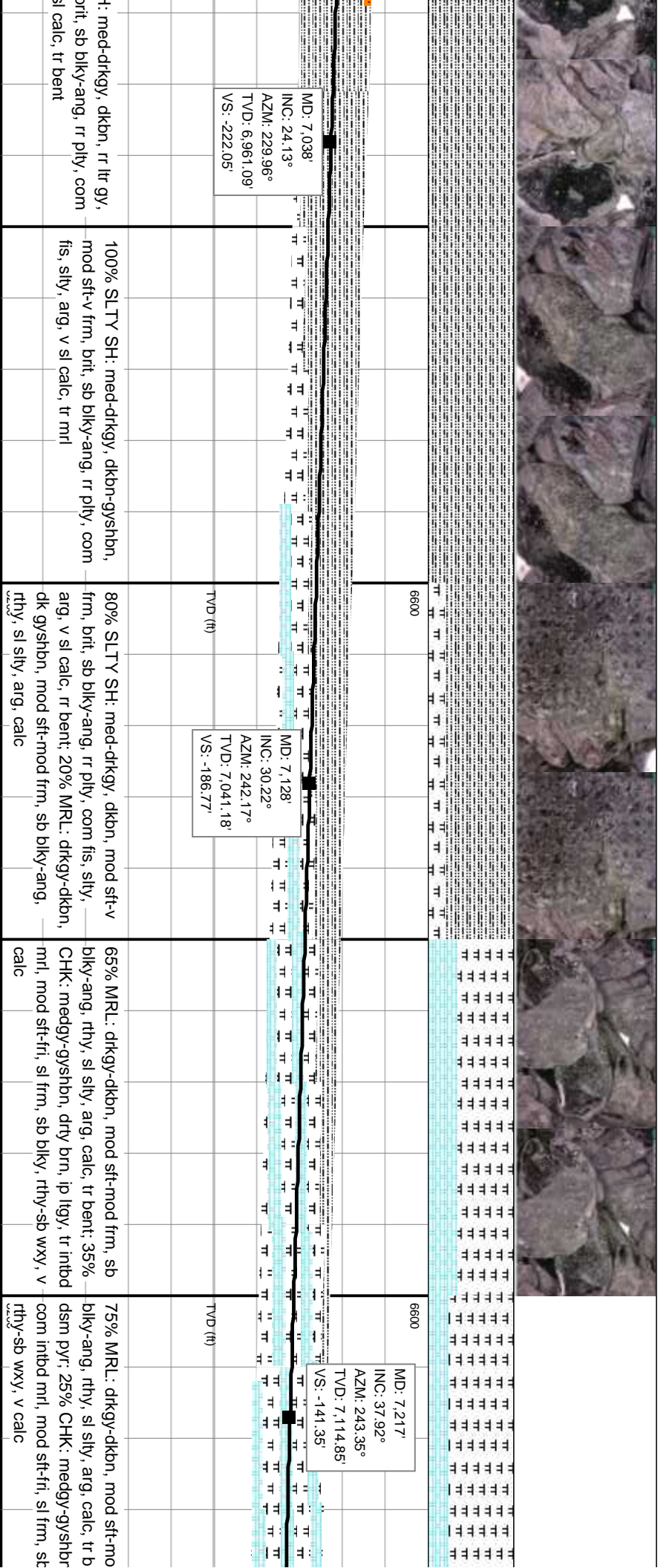
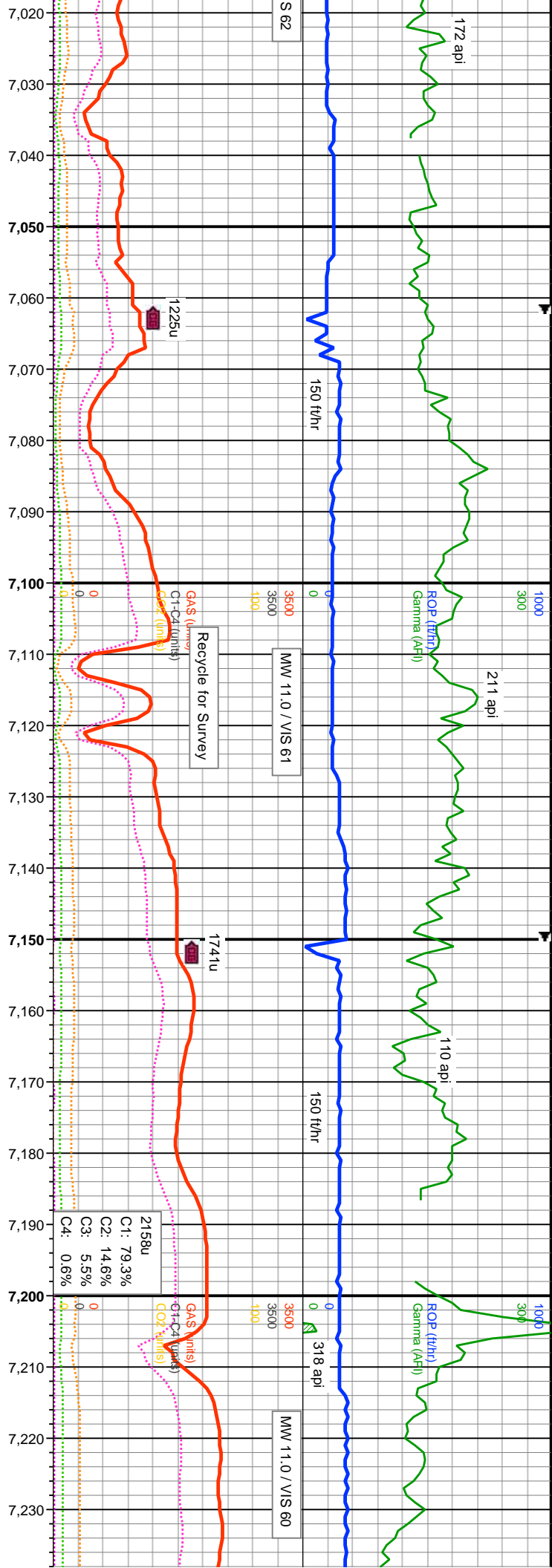
MD: 6,591'
INC: 29.41°
AZM: 124.08°
TVD: 6,546.59'
VS: -197.31'

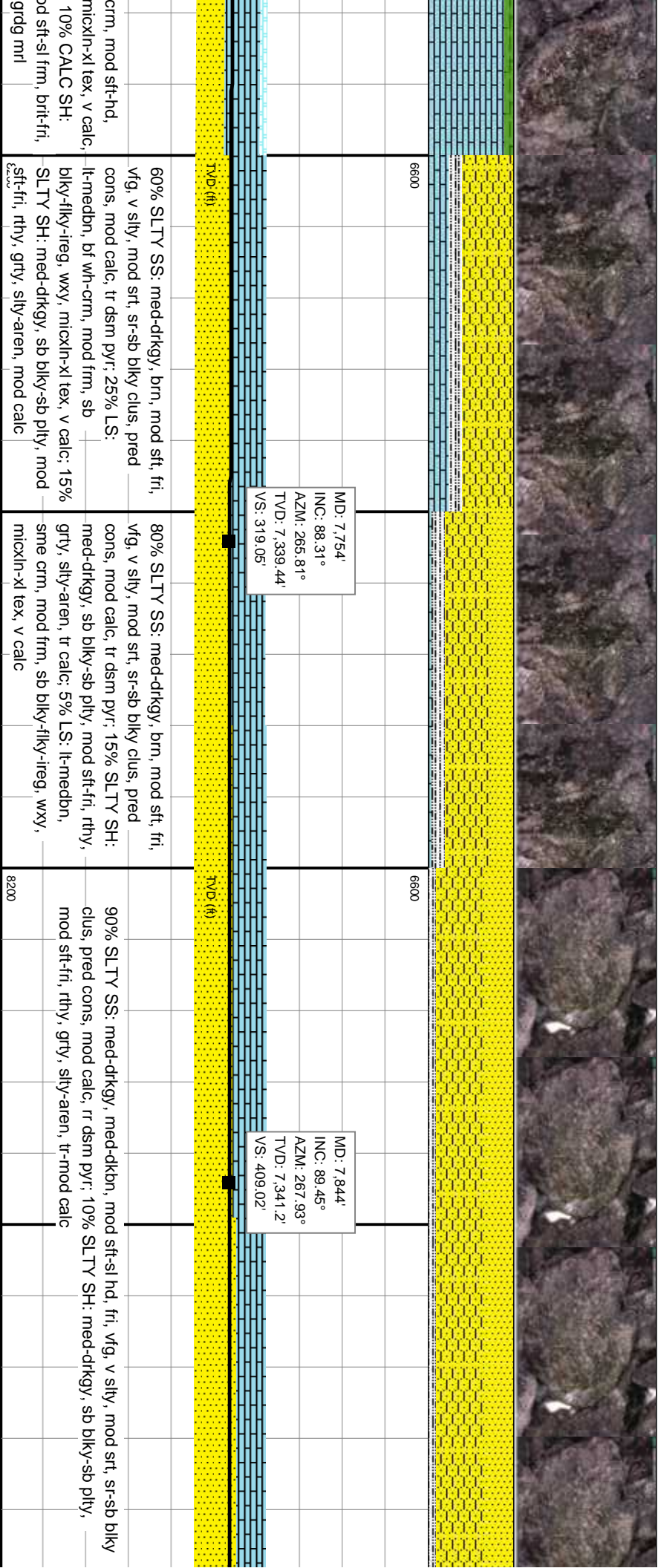
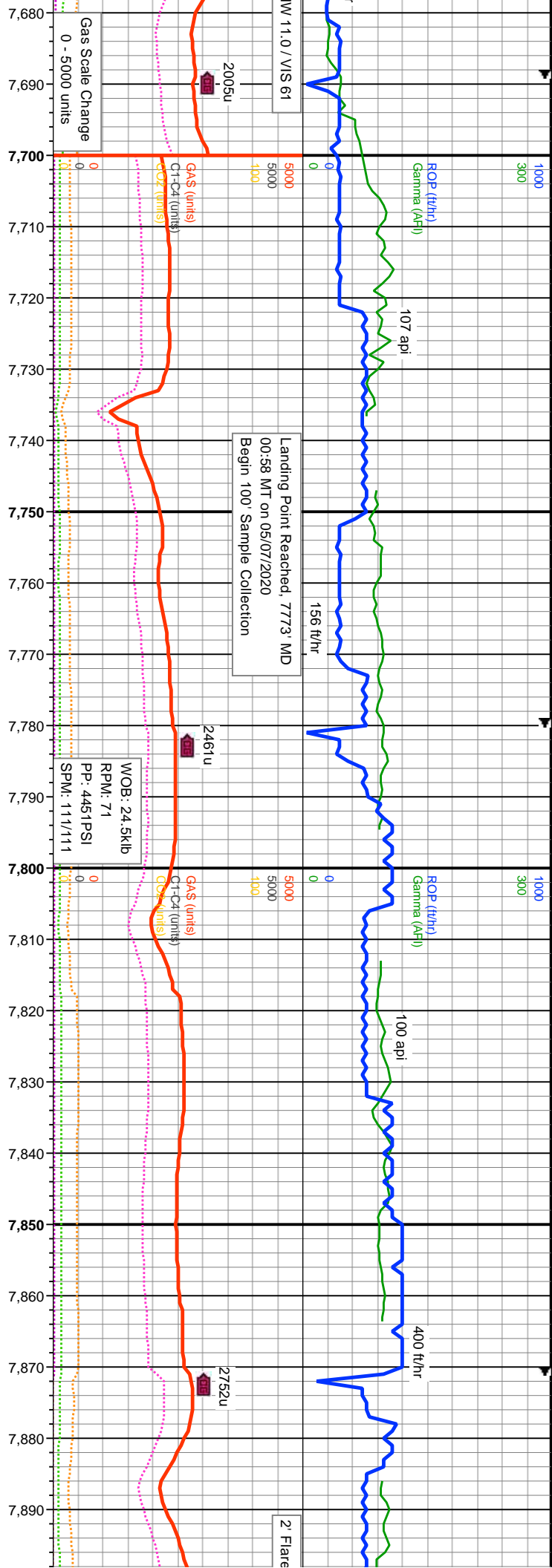
MD: 6,680'
INC: 24.1°
AZM: 140.96°
TVD: 6,626.15'
VS: -225.53'

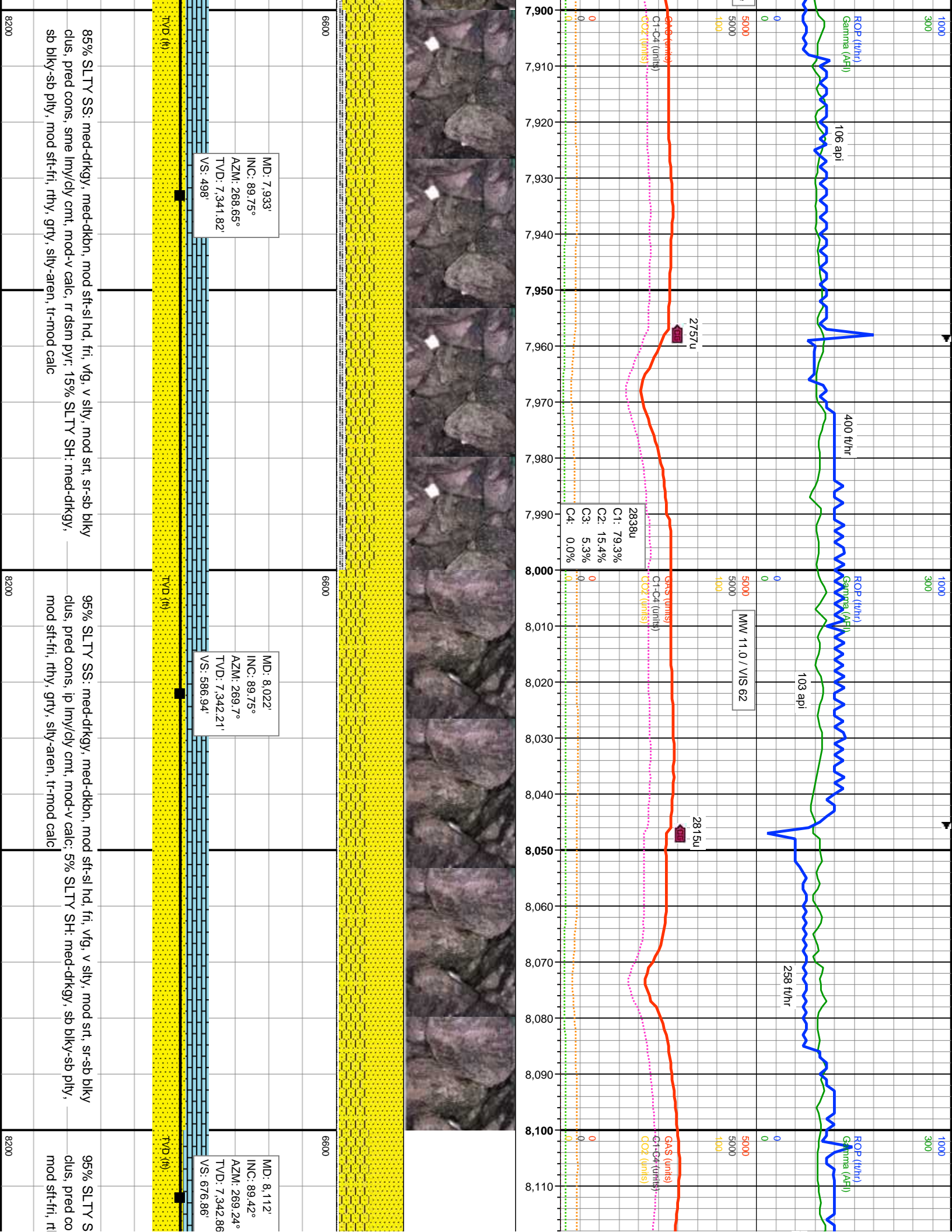
MD: 6,770'
INC: 20.05°
AZM: 157.21°
TVD: 6,709.61'
VS: -241.62'

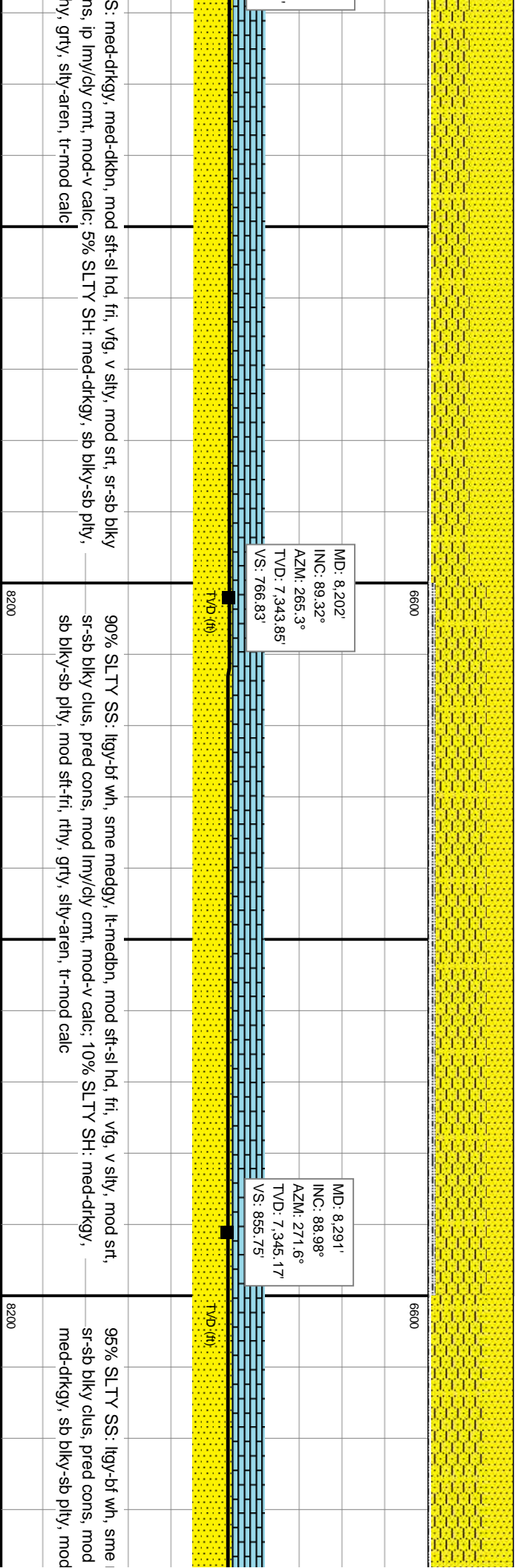
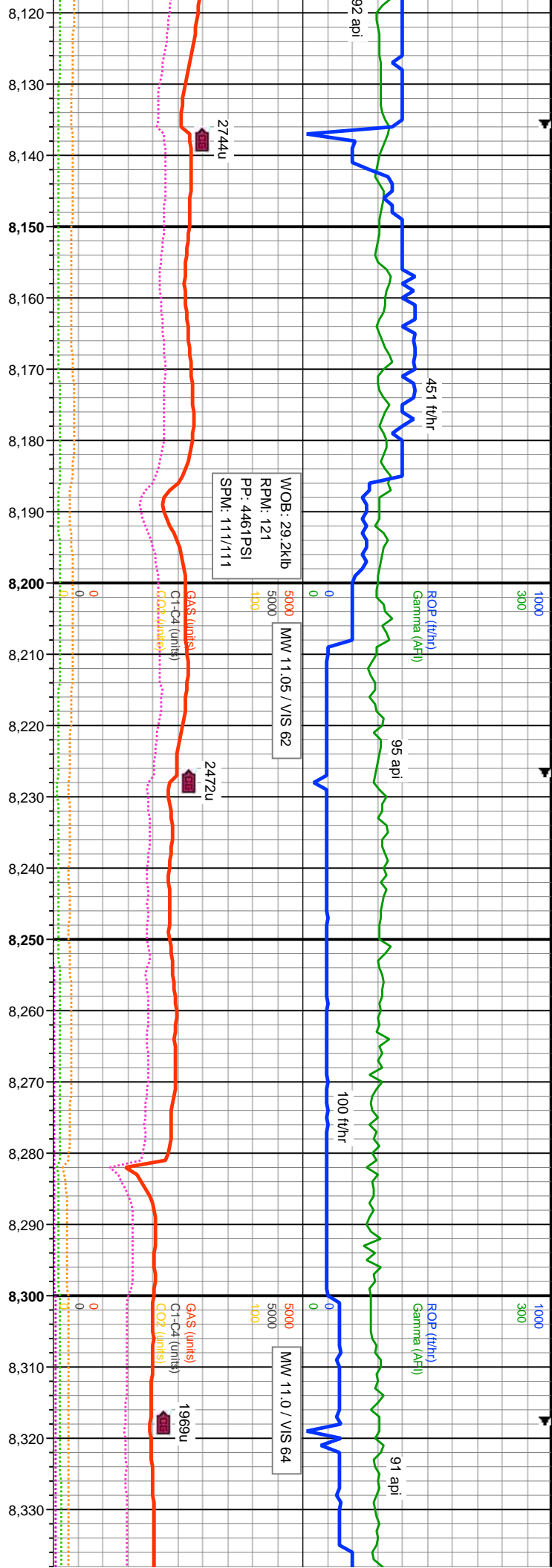
8500	100% SHY SLTST: medgy, brn-gyshbn, sme lt gry, mod sft-rr frm, ip fri, sb blkY-sb ply, ip sb ang, tr fis, arg, sily, rthy-ip aren, rr-tr cly rch mtix, v sl calc-non calc
5500	100% SHY SLTST: medgy, brn-gyshbn, sme lt gry, mod sft-rr frm, ip fri, sb blkY-sb ply, ip sb ang, tr fis, arg, sily, rthy-ip aren, rr-tr cly rch mtix, v sl calc-non calc
5500	100% SHY SLTST: medgy, brn-gyshbn, sme lt gry, mod sft-rr frm, ip fri, sb blkY-sb ply, ip sb ang, tr fis, arg, sily, rthy-ip aren, rr-tr cly rch mtix, v sl calc-non calc
8500	55% SHY SLTST: medgy, brn-gyshbn, sme ltgy, mod sft-rr frm, ip fri, sb blkY-sb ply, ip sb ang, tr fis, arg, sily, rthy-ip aren, tr cly rch mtix, v sl calc-non calc: 45% SLTY SH: med-drkgy, dkbn, mod sft-v frm, brit, sb blkY-ang, rr ply, com fis, sily, arg, v sl calc

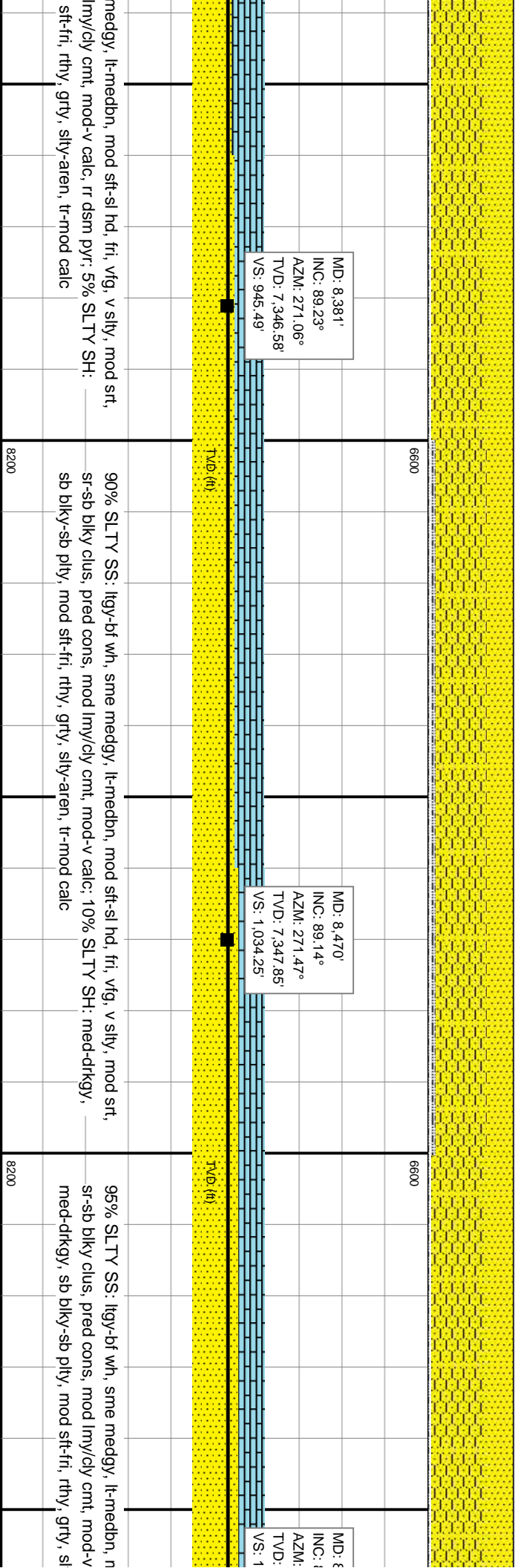
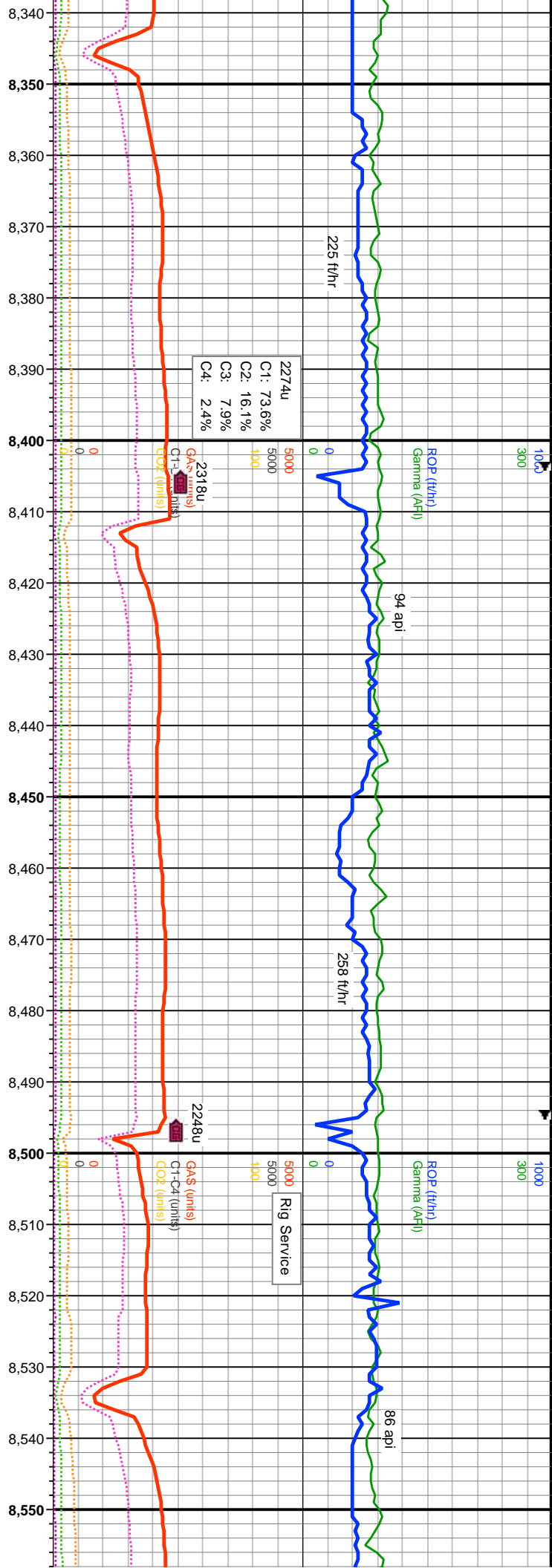


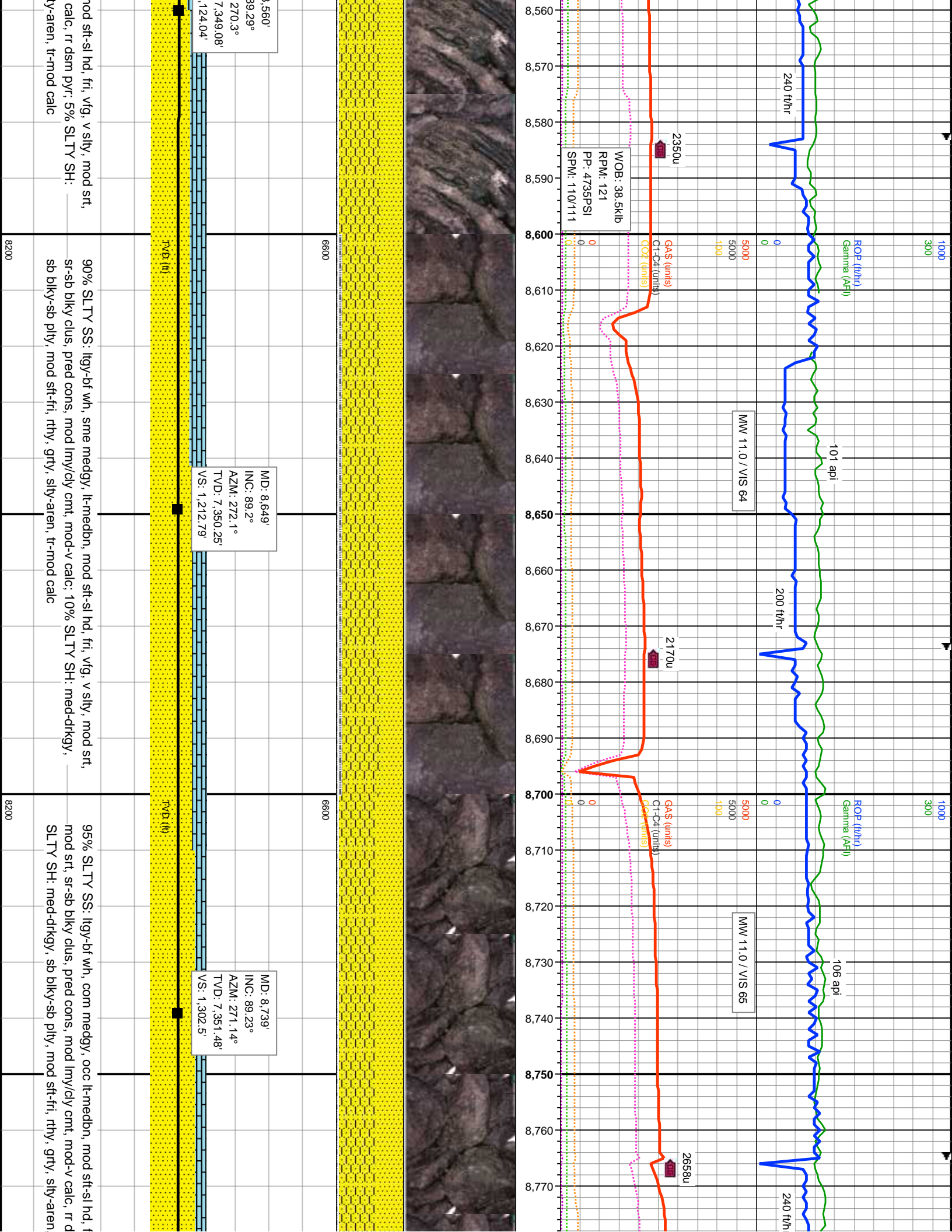












ROP (ft/hr)
Gamma (API)

101 api

MW 11.0 / VIS 64

200 ft/hr

ROP (ft/hr)
Gamma (API)

106 api

MW 11.0 / VIS 65

240 ft/hr

WOB: 38.5klb
RPM: 121
PP: 4736PSI
SPM: 110/111

GAS (units)
C1-C4 (units)
C2 (units)

2350u

GAS (units)
C1-C4 (units)
C2 (units)

2170u

GAS (units)
C1-C4 (units)
C2 (units)

2658u

1,560'
99.29°
270.3°
7,349.08'

MD: 8,649'
INC: 89.2°
AZM: 272.1°
TVD: 7,350.25'
VS: 1,212.79'

MD: 8,739'
INC: 89.23°
AZM: 271.14°
TVD: 7,351.48'
VS: 1,302.5'

TVD (ft)

TVD (ft)

mod sft-sl hd, fri, vfg, v silty, mod srt,
calc, rr dsrn pyr: 5% SLTY SH:
ly-aren, tr-mod calc

90% SLTY SS: lgy-bf wh, sme medgy, lt-medbn, mod sft-sl hd, fri, vfg, v silty, mod srt,
sr-sb blkly clus, pred cons, mod lmy/clcy cmt, mod-v calc, 10% SLTY SH: med-drkgy,
sb blkly-sb ply, mod sft-fri, rthy, grty, silty-aren, tr-mod calc

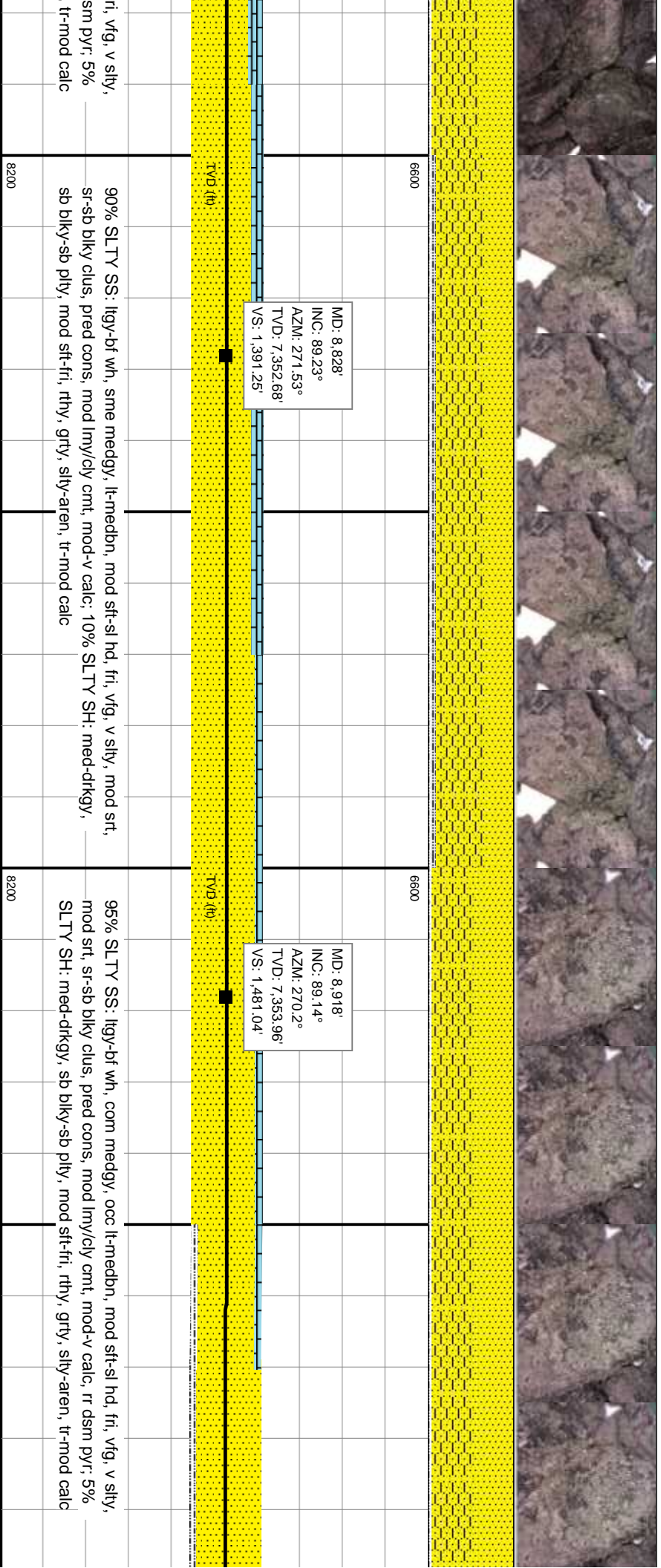
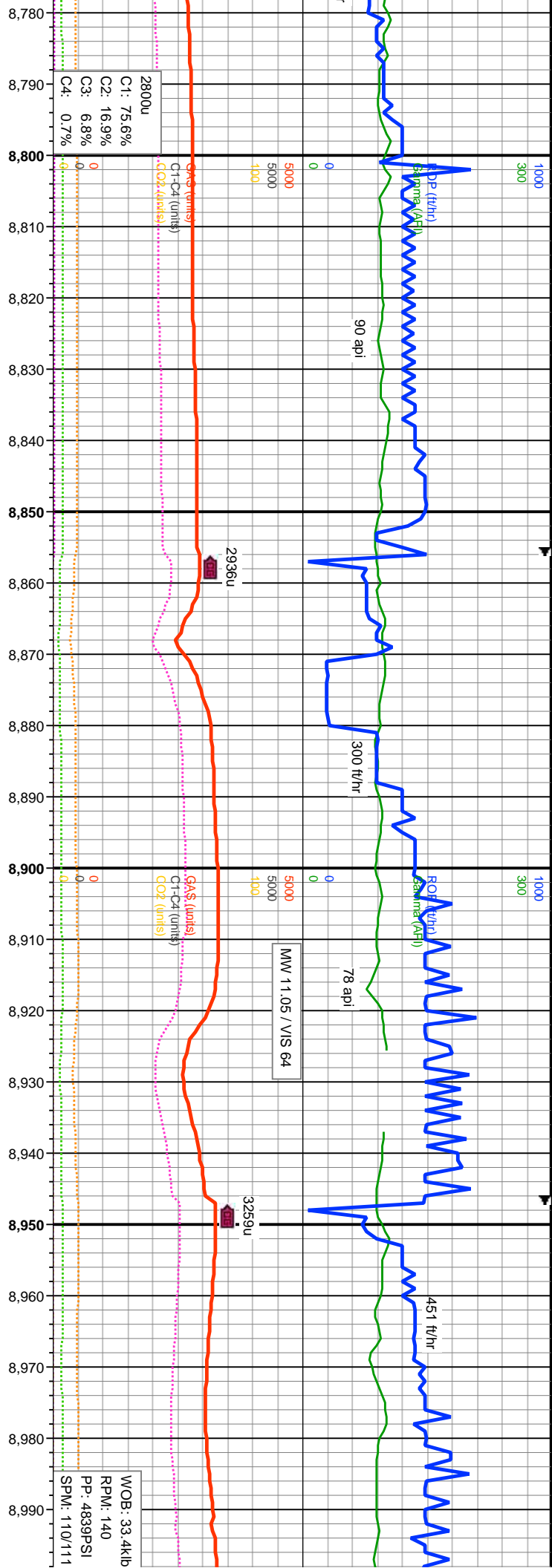
95% SLTY SS: lgy-bf wh, com medgy, occ lt-medbn, mod sft-sl hd, f,
mod srt, sr-sb blkly clus, pred cons, mod lmy/clcy cmt, mod-v calc, rr d
SLTY SH: med-drkgy, sb blkly-sb ply, mod sft-fri, rthy, grty, silty-aren,

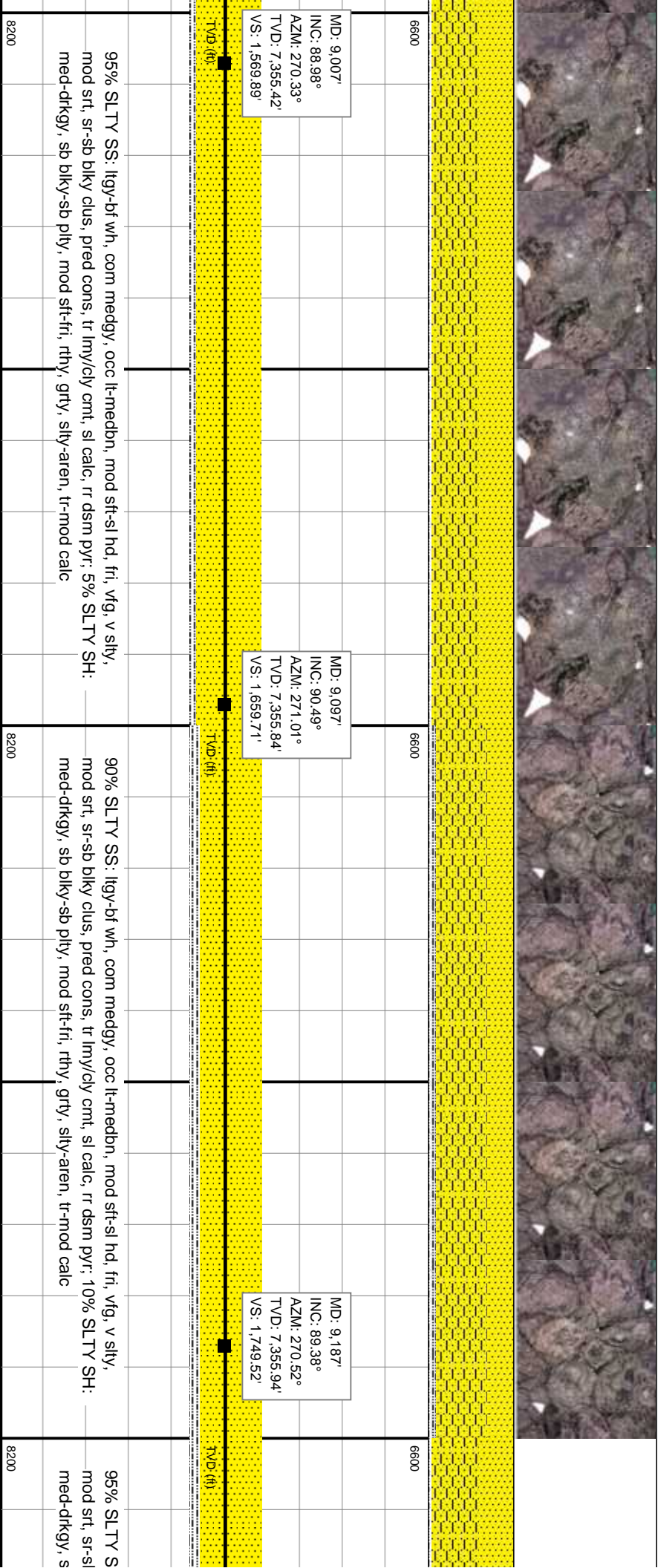
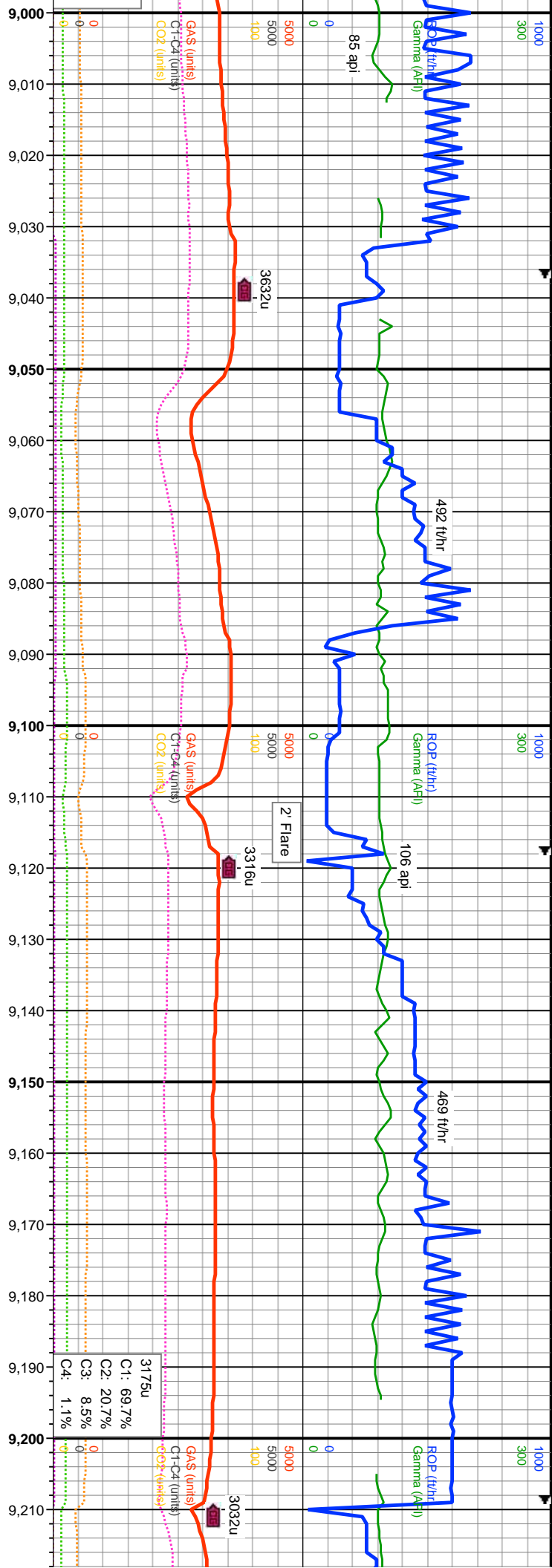
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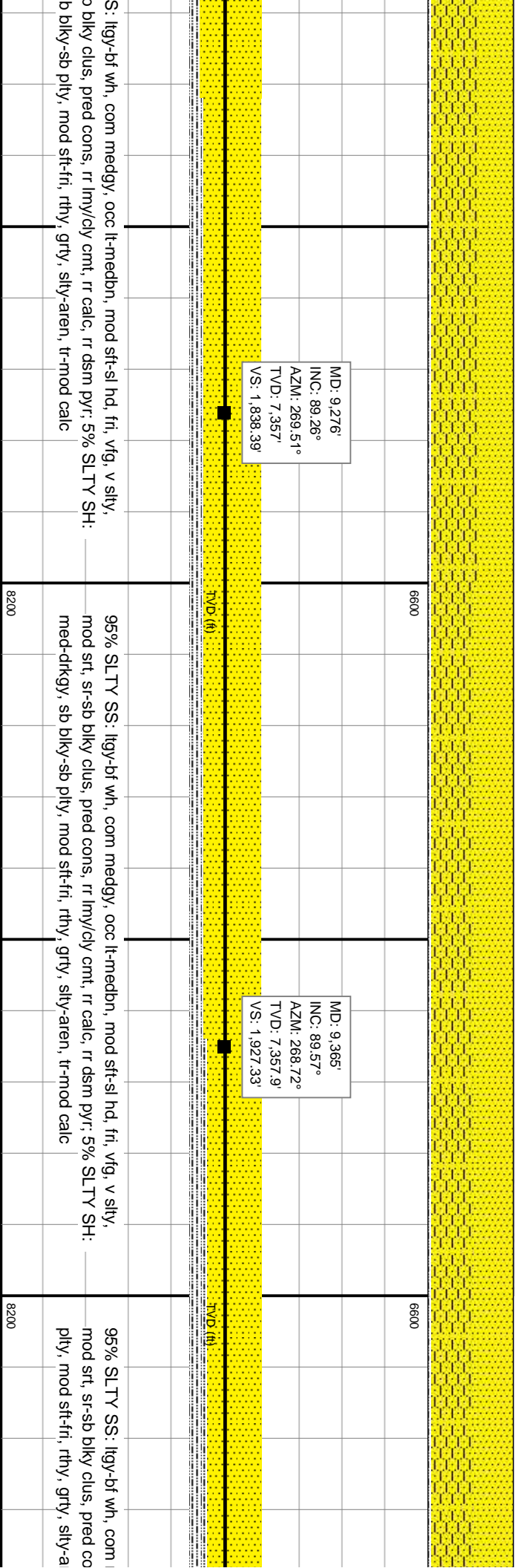
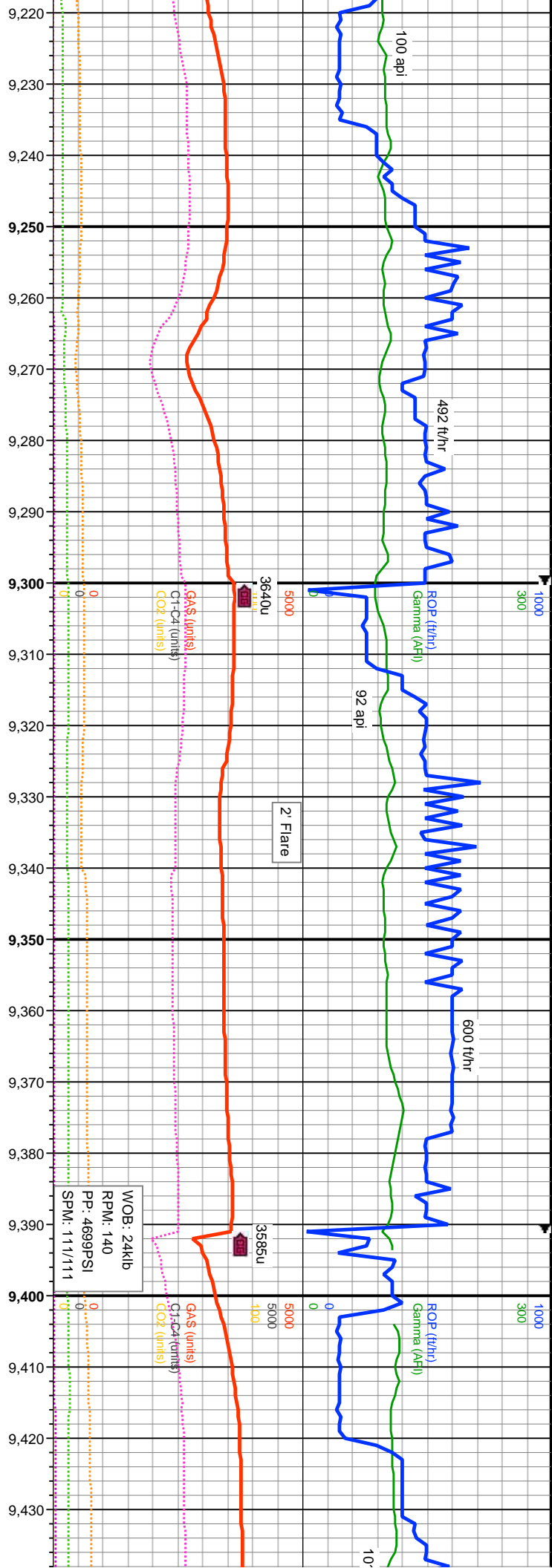
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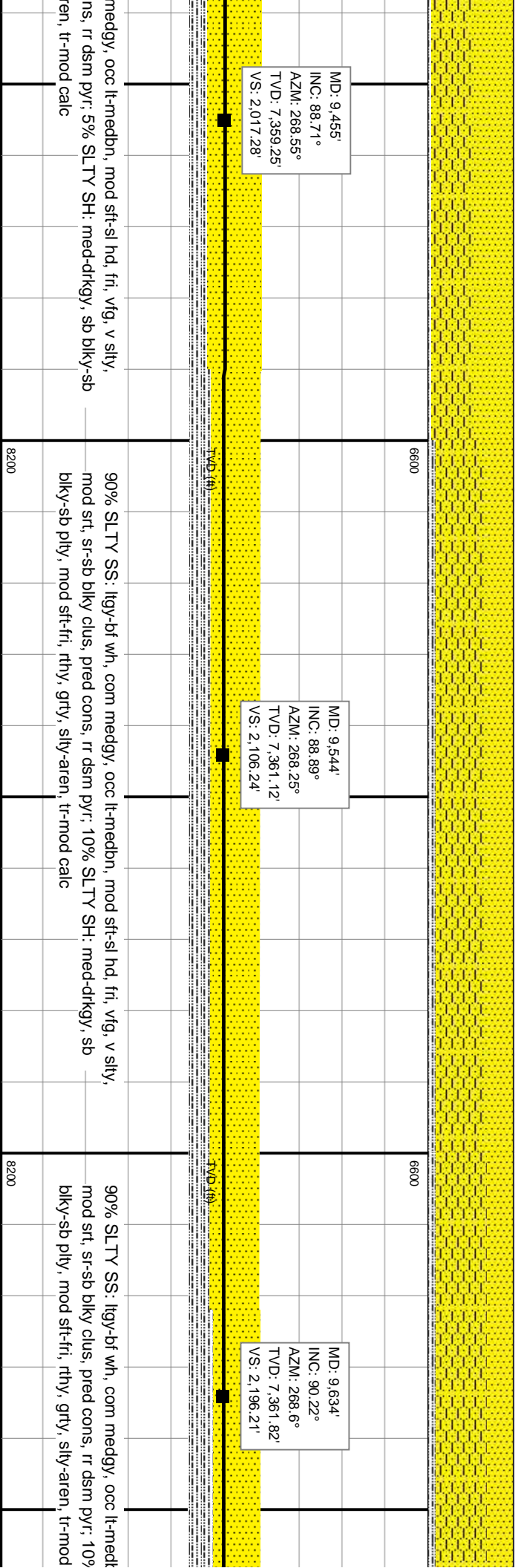
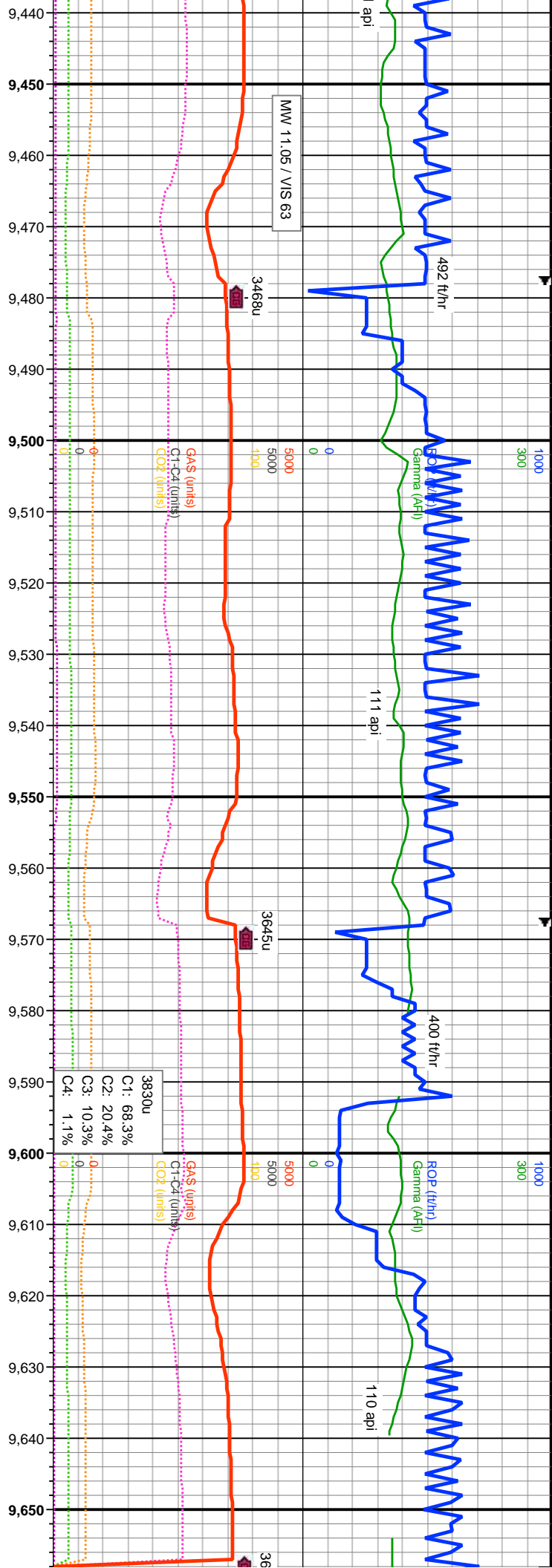
6600

6600





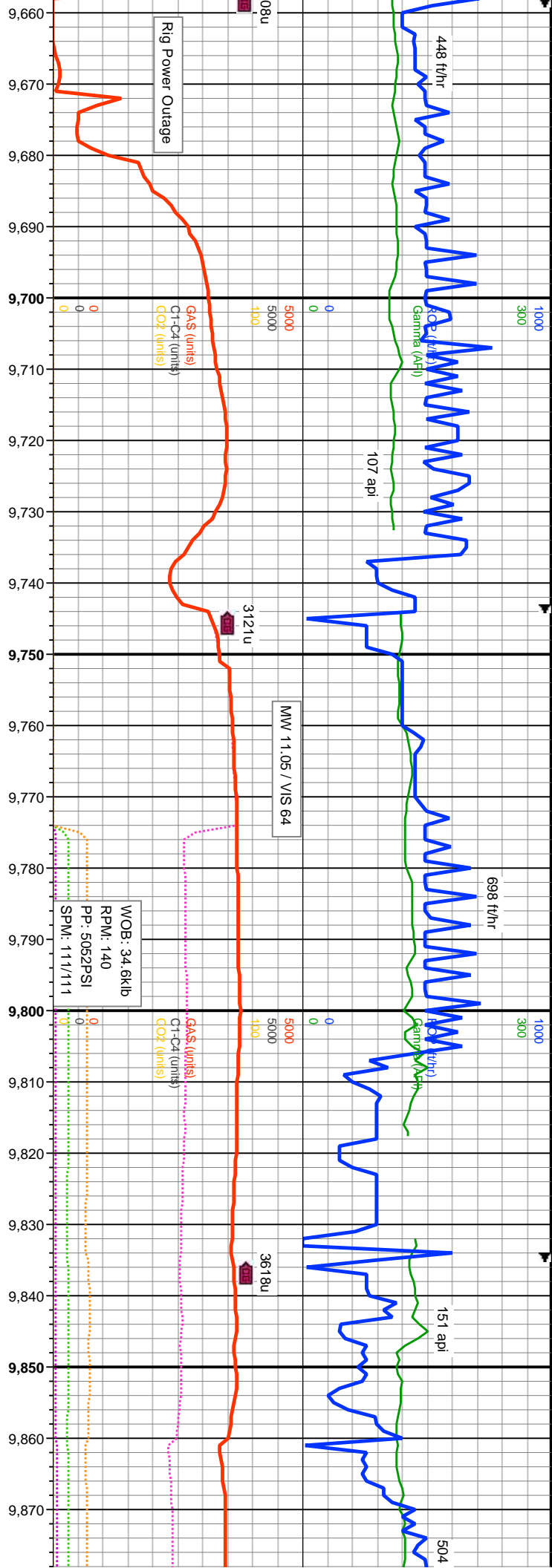




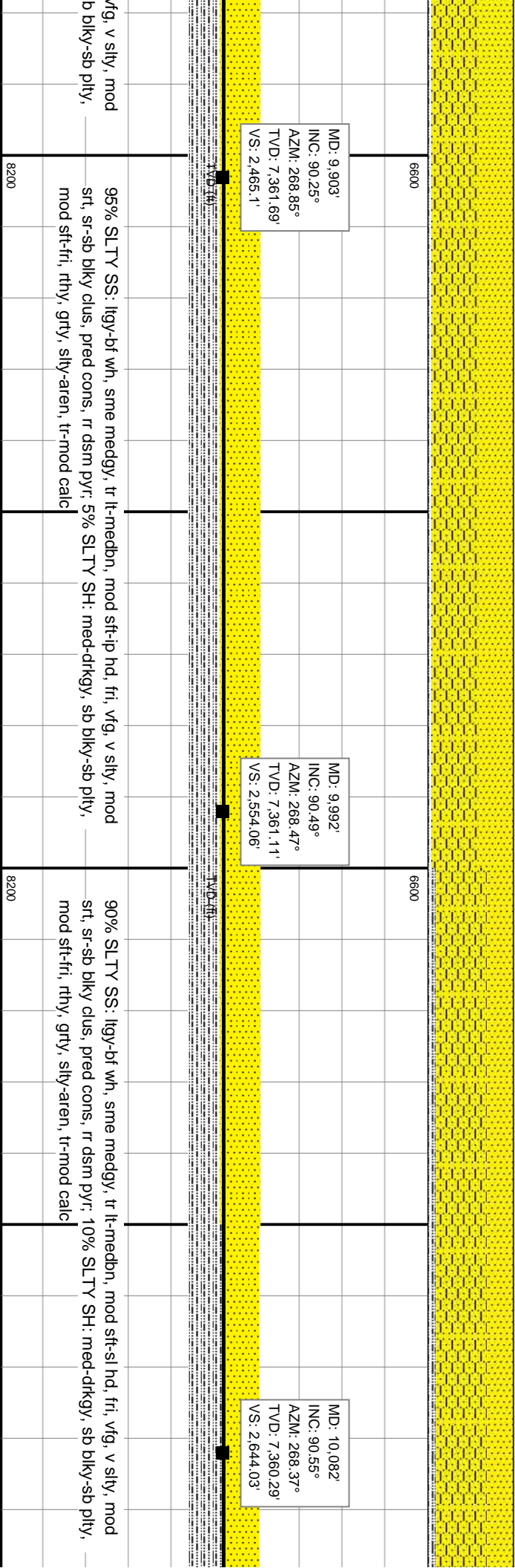
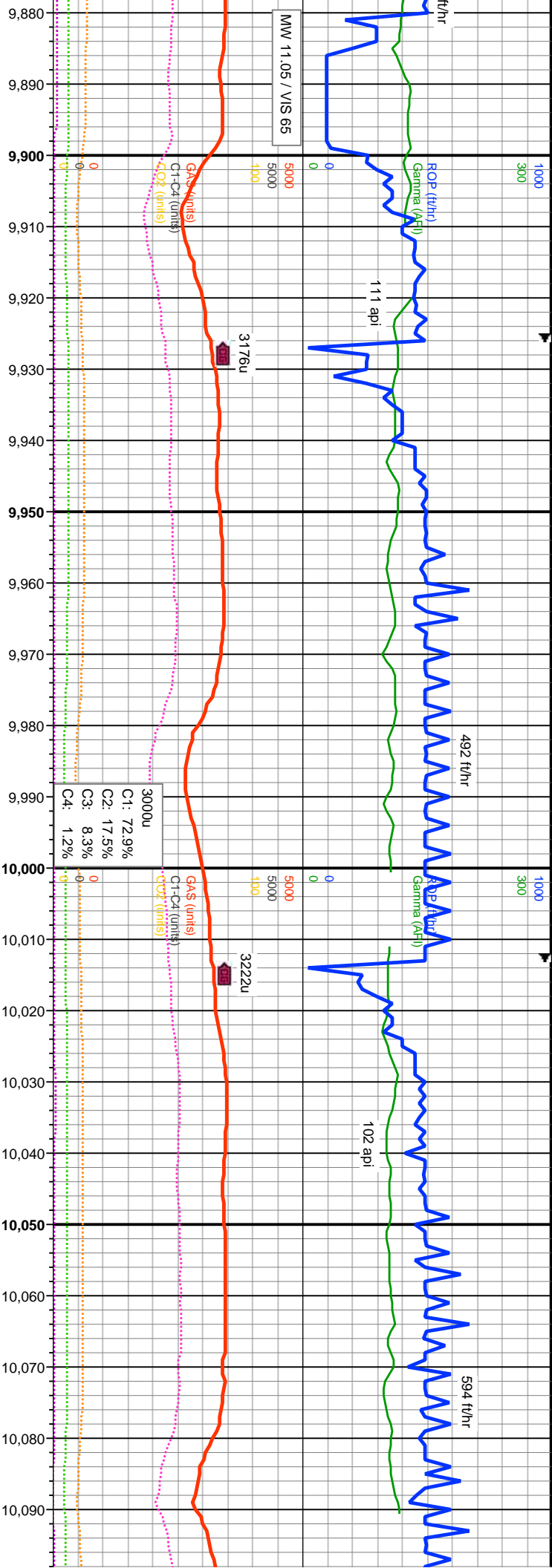
medgy, ooc lk-medbn, mod sft-si hd, fri, vfg, v silty, ns, rr dsm pyr; 5% SLTY SH: med-drkgy, sb blkv-sb len, tr-mod calc

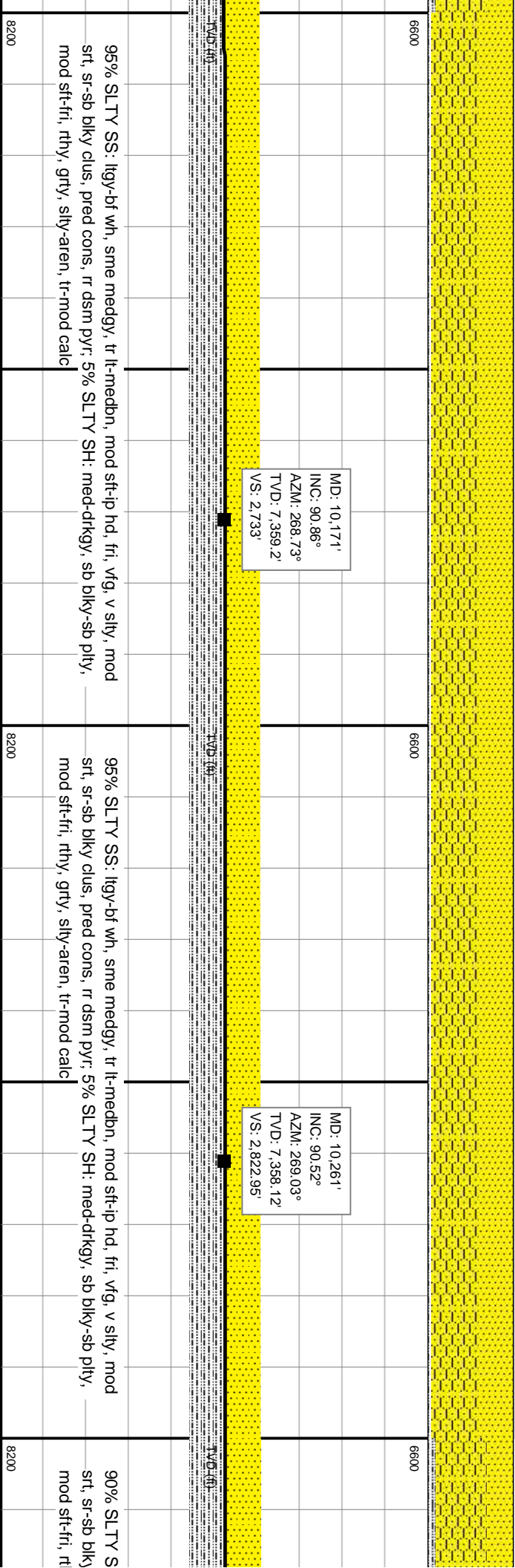
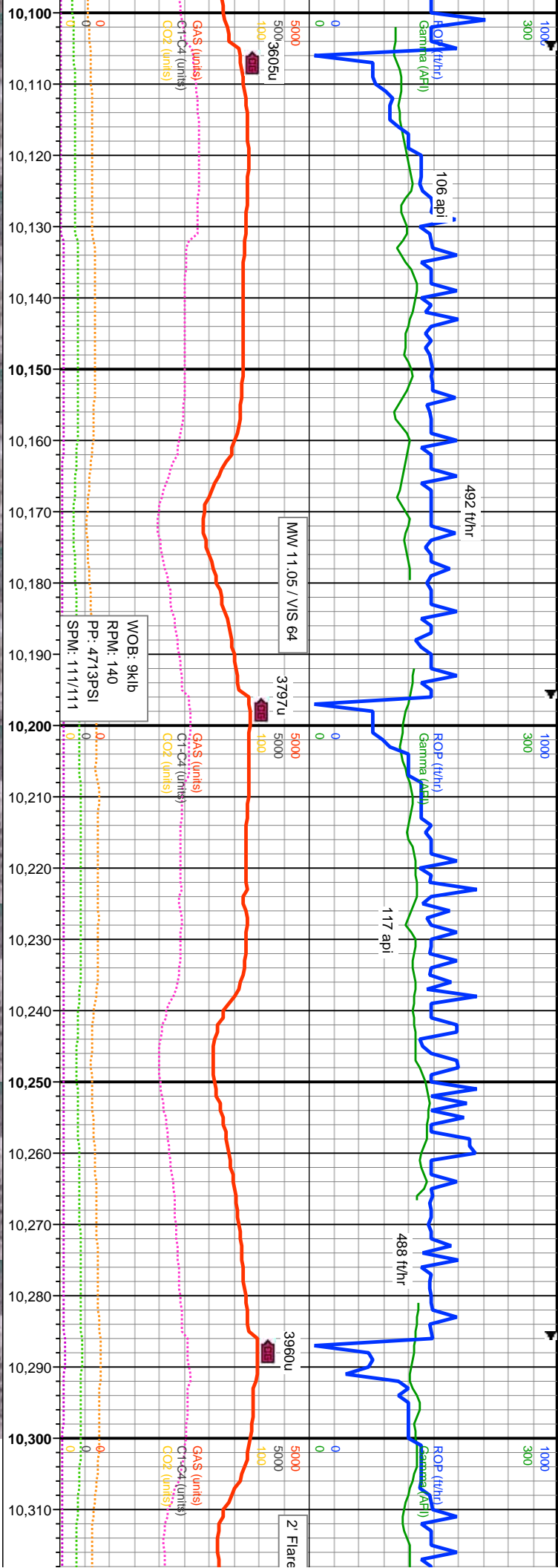
90% SLTY SS: lgy-bf wh, com medgy, ooc lk-medbn, mod sft-si hd, fri, vfg, v silty, mod srt, sr-sb blkv clus, pred cons, rr dsm pyr; 10% SLTY SH: med-drkgy, sb blkv-sb plty, mod sft-fri, rthy, grty, silty-aren, tr-mod calc

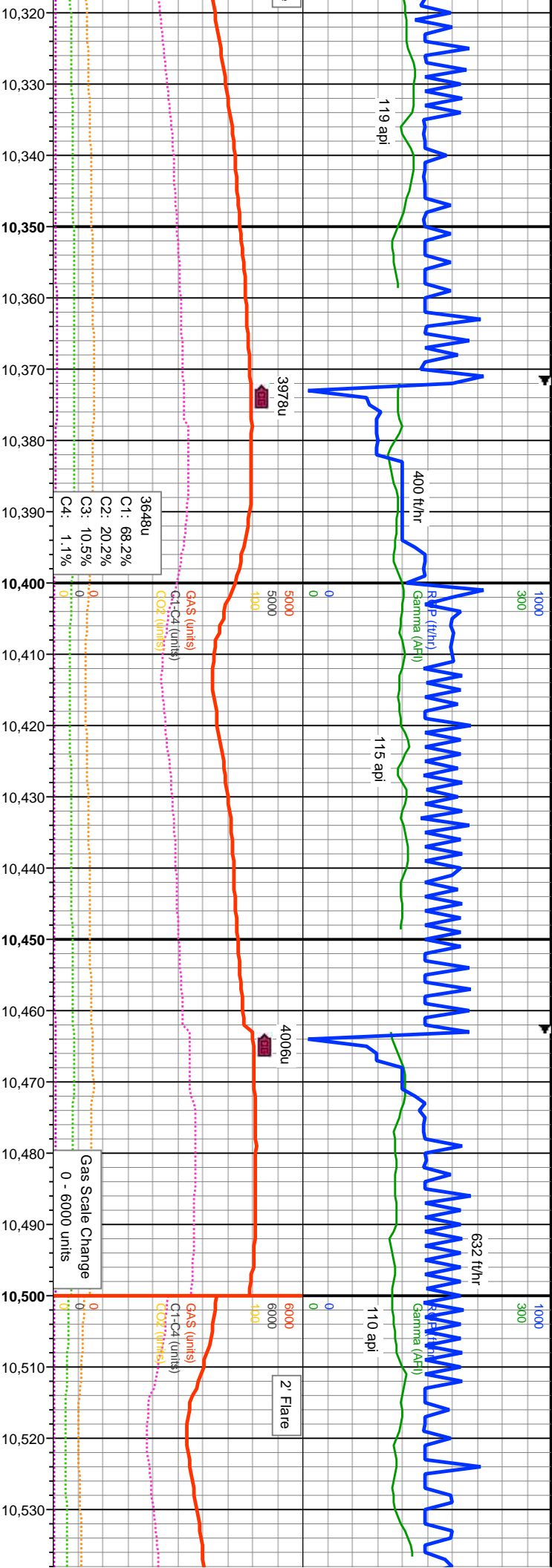
90% SLTY SS: lgy-bf wh, com medgy, ooc lk-medbn, mod sft-si hd, fri, vfg, v silty, mod srt, sr-sb blkv clus, pred cons, rr dsm pyr; 10% SLTY SH: med-drkgy, sb blkv-sb plty, mod sft-fri, rthy, grty, silty-aren, tr-mod calc



	<p>MD: 9.723° INC: 90.03° AZM: 268.5° TVD: 7.361.62' VS: 2.286.18'</p>	<p>90% SLTY SS: lgy-bf wh, sme medgy, tr lt-medbn, mod sft-sl hd, fri, vfg, v slty, mod srt, sr-sb blkly clus, pred cons, rr dsm pyr; 10% SLTY SH: med-drkgy, sb blkly-sb plty, mod sft-fri, rthy, grty, slty-aren, tr-mod calc</p>
<p>MD: 9.813° INC: 89.82° AZM: 268.89° TVD: 7.361.74' VS: 2.375.14'</p>	<p>95% SLTY SS: lgy-bf wh, sme medgy, tr lt-medbn, mod sft-ip hd, fri, vfg, v slty, mod srt, sr-sb blkly clus, pred cons, rr dsm pyr; 5% SLTY SH: med-drkgy, sb blkly-sb plty, mod sft-fri, rthy, grty, slty-aren, tr-mod calc</p>	







MD: 10,351'
 INC: 90.68°
 AZM: 269.04°
 TVD: 7,357.17'
 VS: 2,912.89'

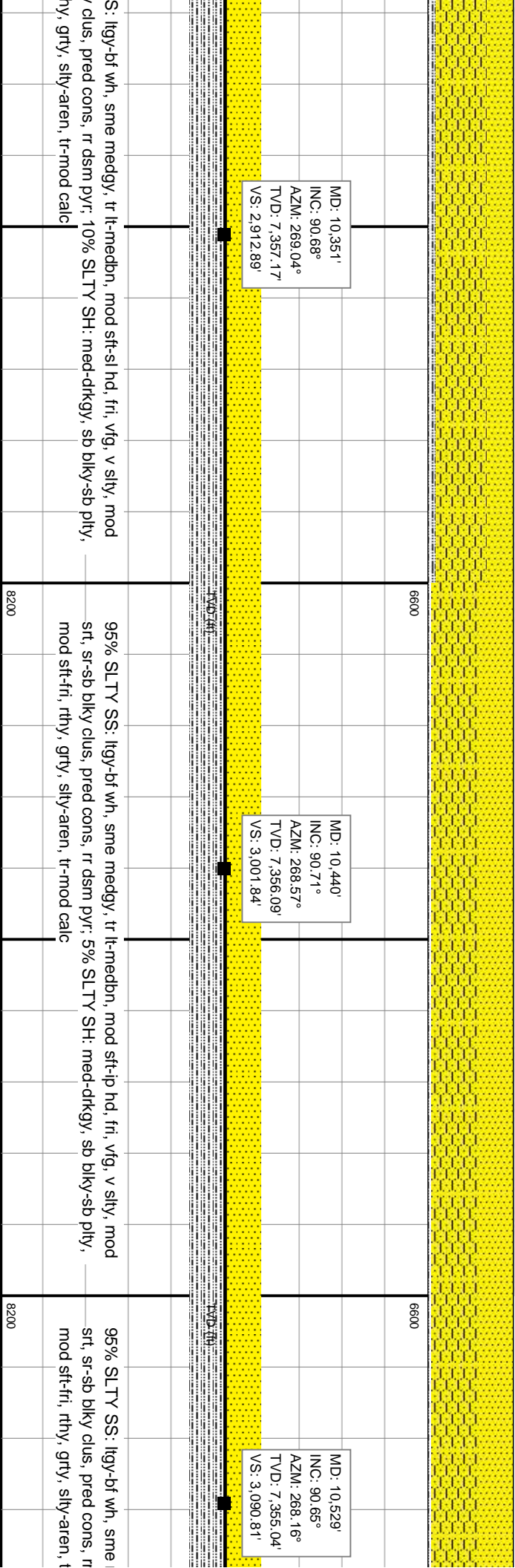
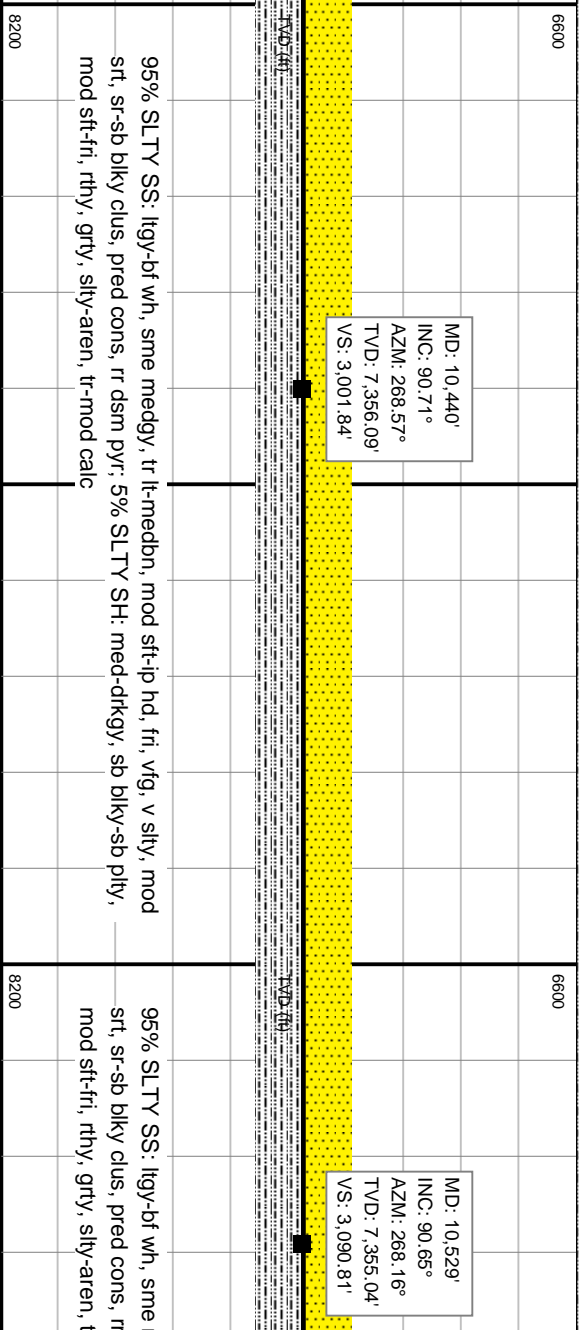
MD: 10,440'
 INC: 90.71°
 AZM: 268.57°
 TVD: 7,356.09'
 VS: 3,001.84'

MD: 10,529'
 INC: 90.65°
 AZM: 268.16°
 TVD: 7,355.04'
 VS: 3,090.81'

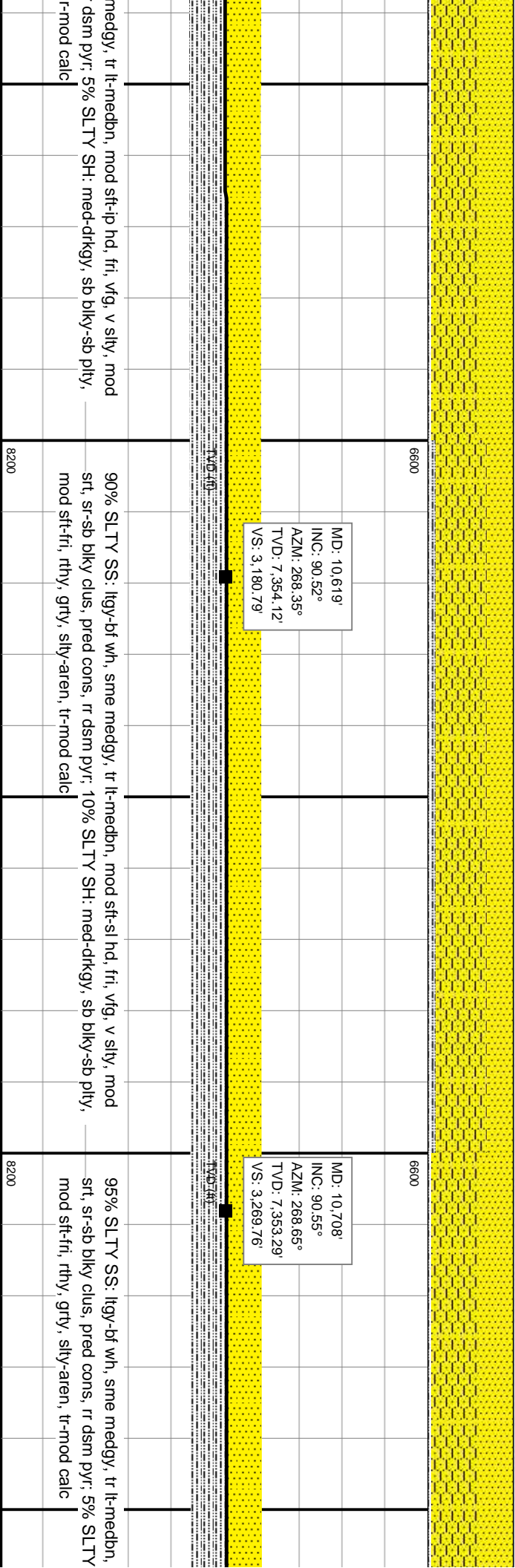
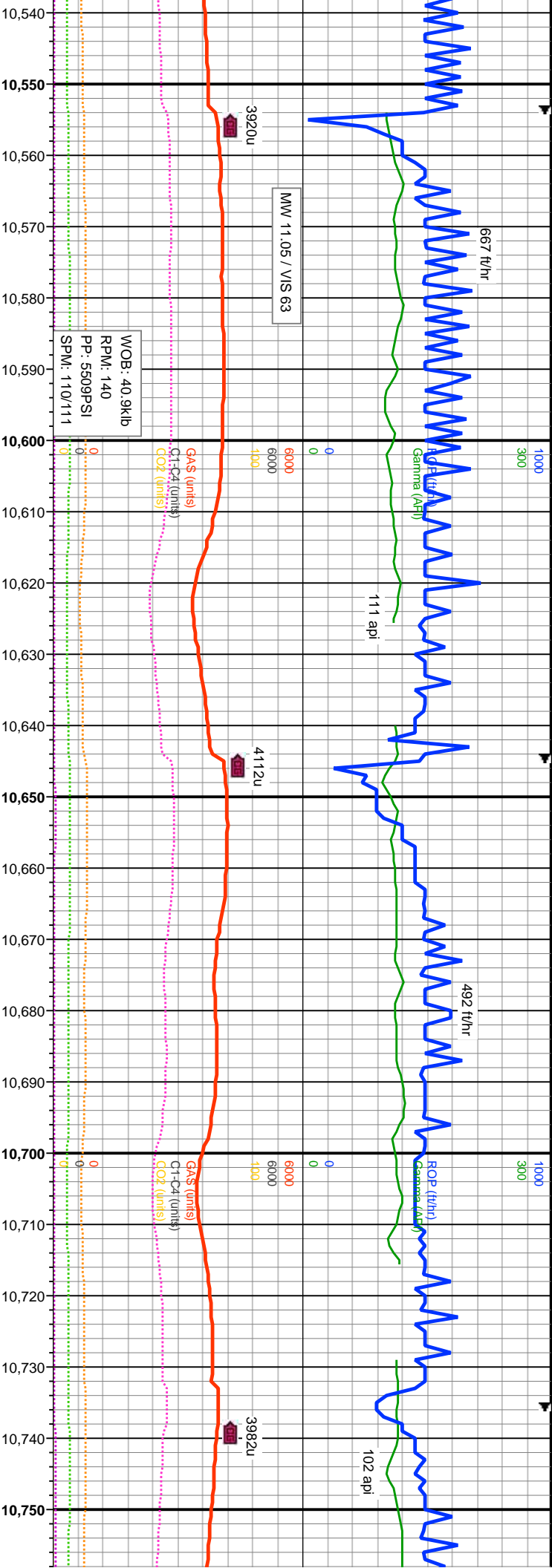
S: lgy-bf wh, sme medgy, tr lk-medbn, mod sft-sl hd, fri, vfg, v silty, mod clus, pred cons, rr dsm pyr; 10% SLTY SH: med-dkgy, sb blkly-sb plty, ny, grty, silty-aren, tr-mod calc

95% SLTY SS: lgy-bf wh, sme medgy, tr lk-medbn, mod sft-ip hd, fri, vfg, v silty, mod srt, sr-sb blkly clus, pred cons, rr dsm pyr; 5% SLTY SH: med-dkgy, sb blkly-sb plty, mod sft-fri, rthy, grty, silty-aren, tr-mod calc

95% SLTY SS: lgy-bf wh, sme srt, sr-sb blkly clus, pred cons, rr mod sft-fri, rthy, grty, silty-aren, t



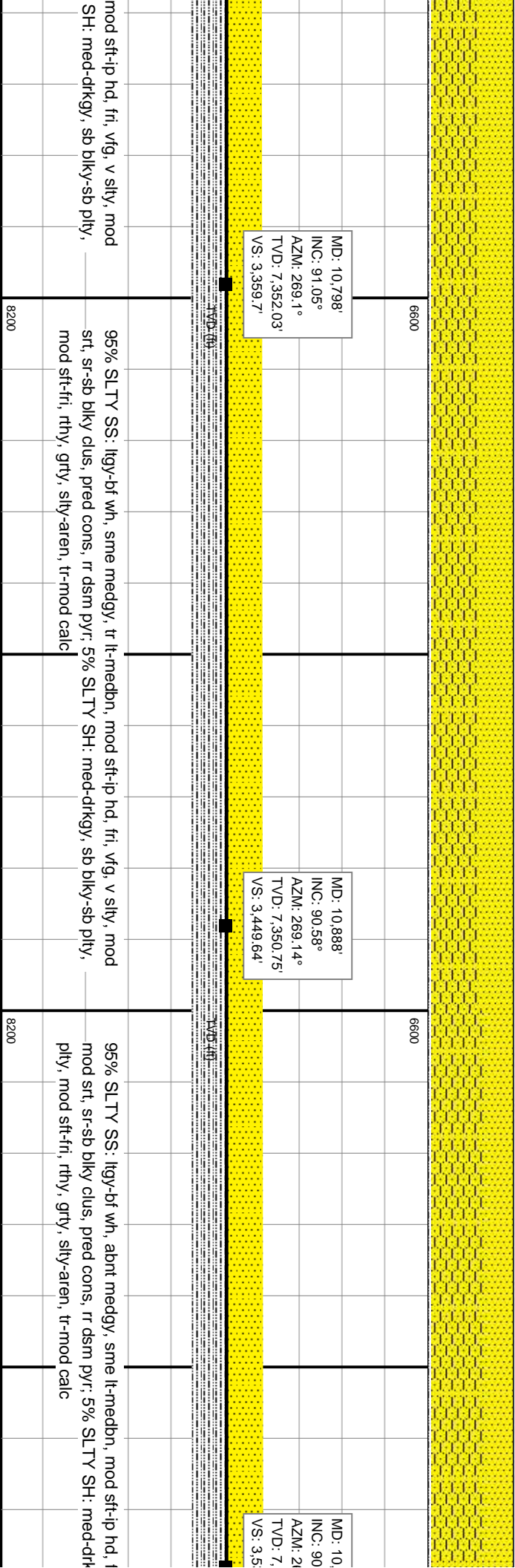
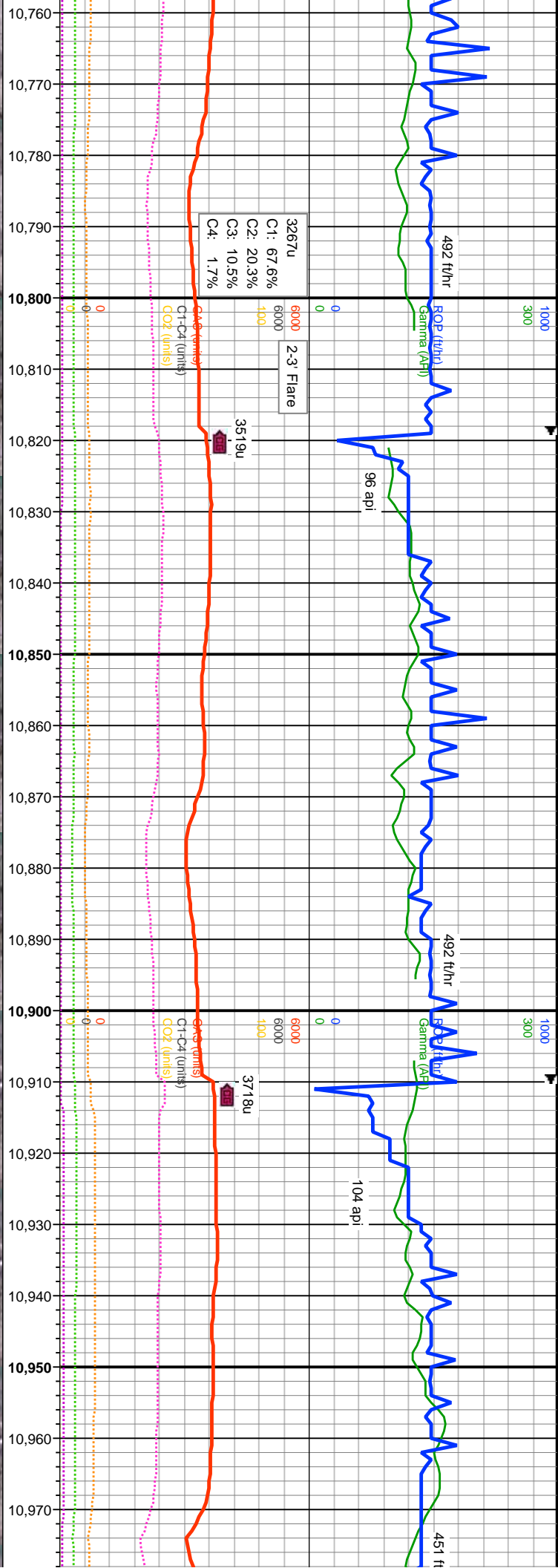
8200
6600
6600
8200

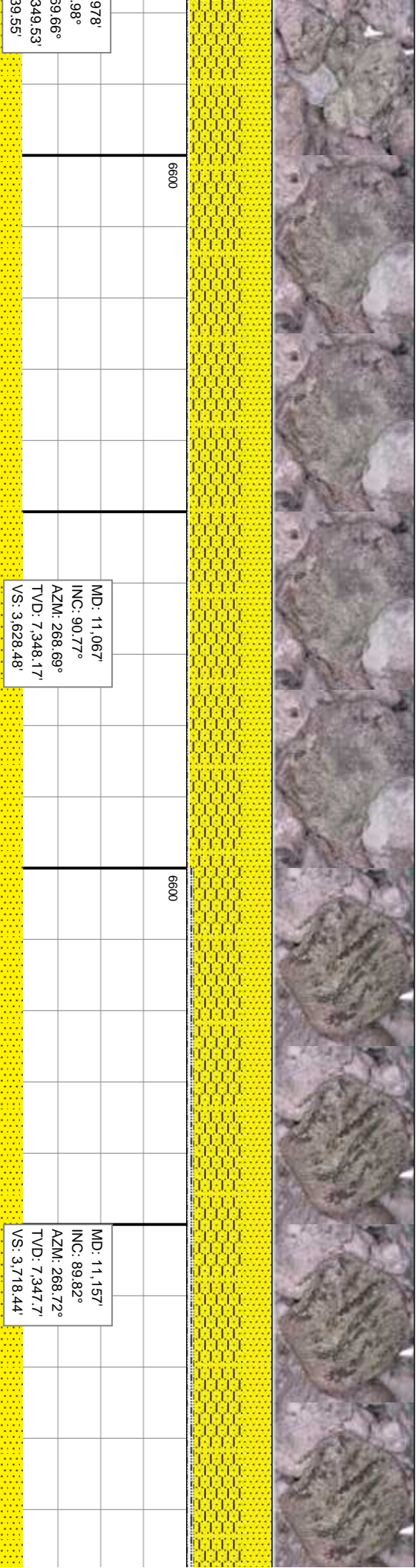
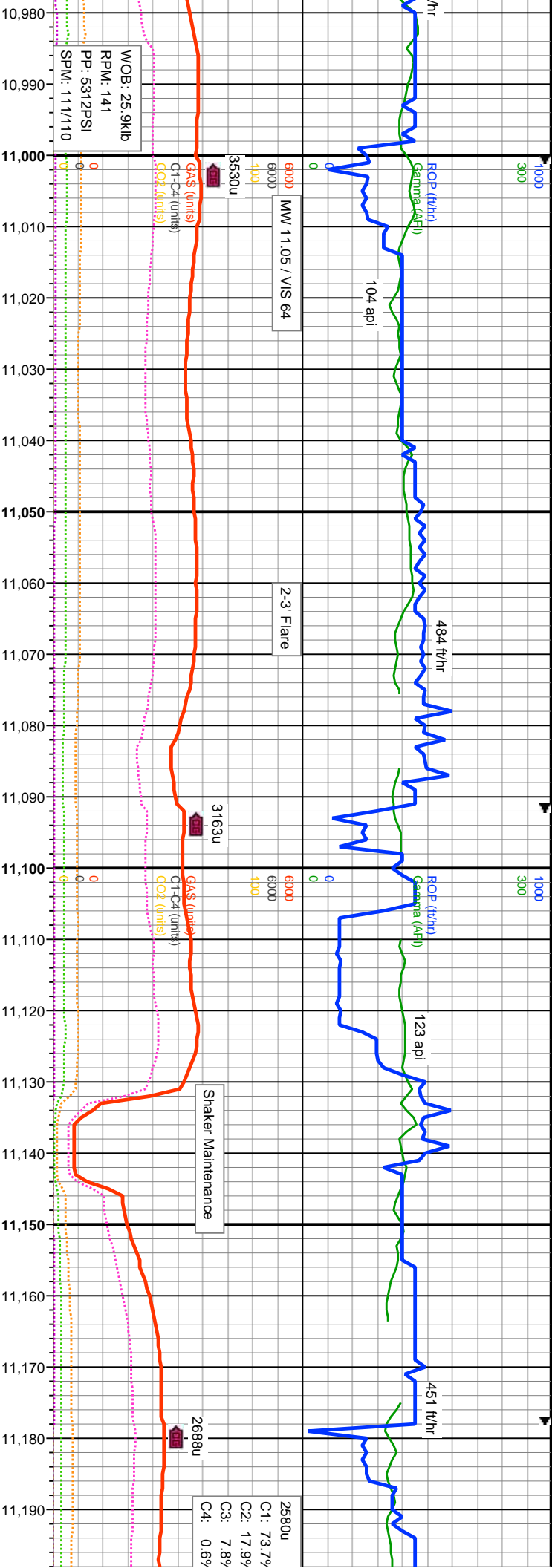


medgy, tr lt-medbn, mod sft-tp hd, fri, vfg, v slty, mod
 dsd pyr; 5% SLTY SH: med-dtkgy, sb blkly-sb plty,
 mod sft-fri, rthy, gfty, slty-aren, tr-mod calc

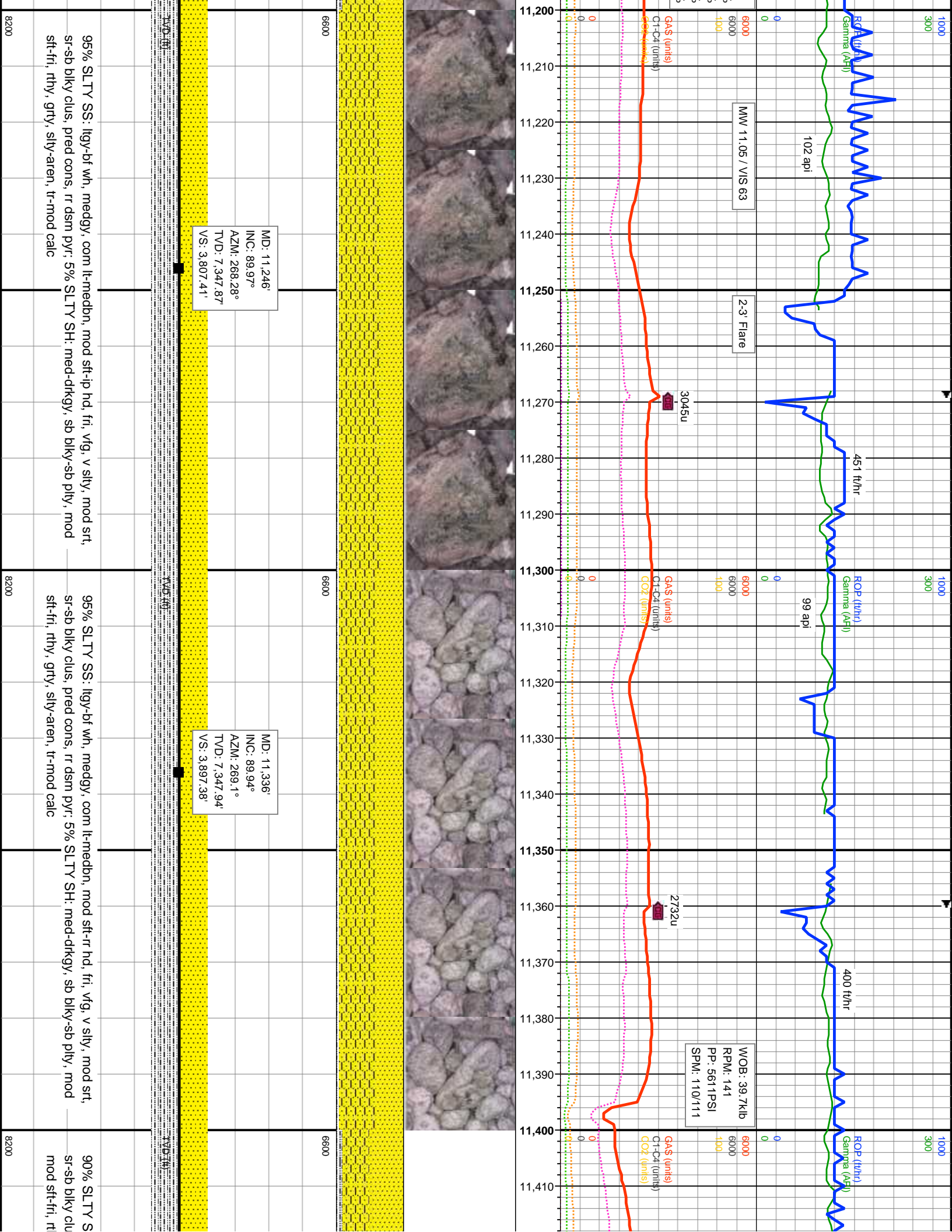
90% SLTY SS: lgy-bf wh, sme medgy, tr lt-medbn, mod sft-sl hd, fri, vfg, v slty, mod
 srt, sr-sb blkly clus, pred cons, rr dsd pyr; 10% SLTY SH: med-dtkgy, sb blkly-sb plty,
 mod sft-fri, rthy, gfty, slty-aren, tr-mod calc

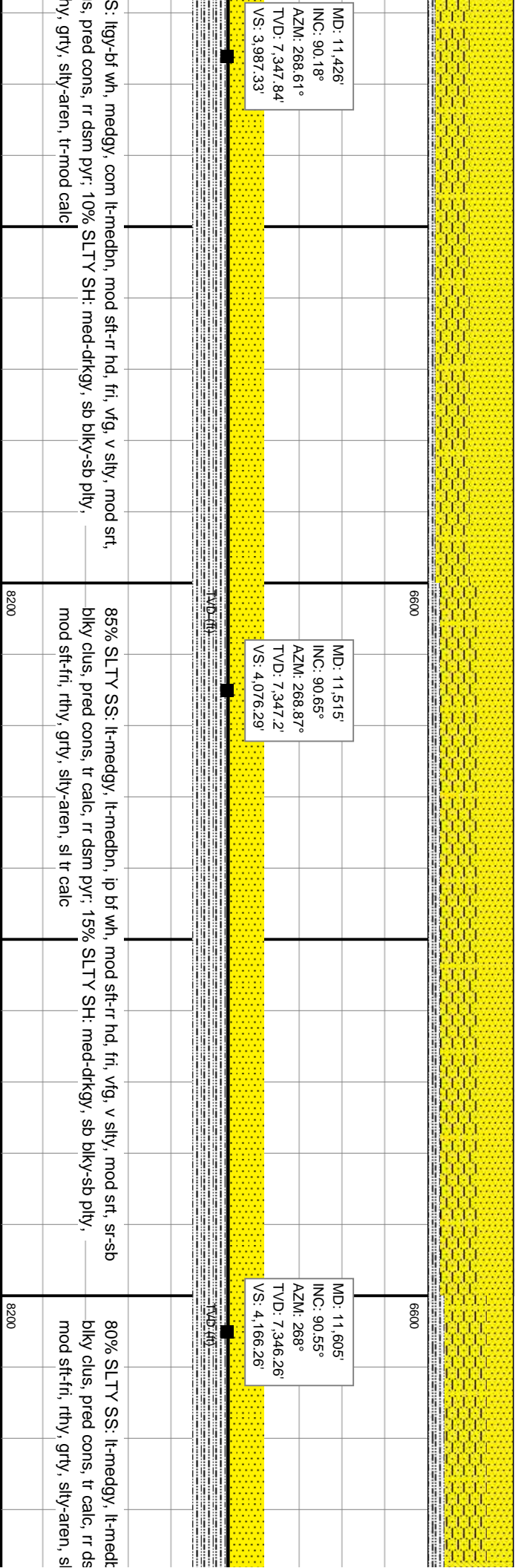
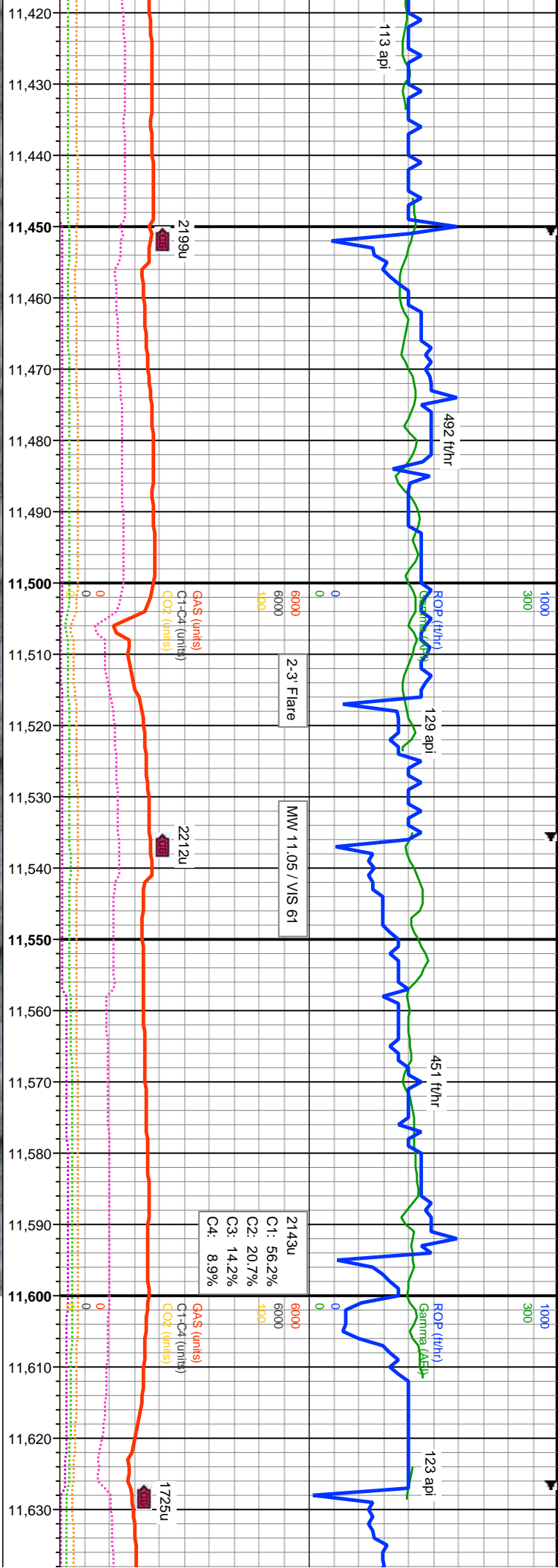
95% SLTY SS: lgy-bf wh, sme medgy, tr lt-medbn,
 srt, sr-sb blkly clus, pred cons, rr dsd pyr; 5% SLTY
 mod sft-fri, rthy, gfty, slty-aren, tr-mod calc

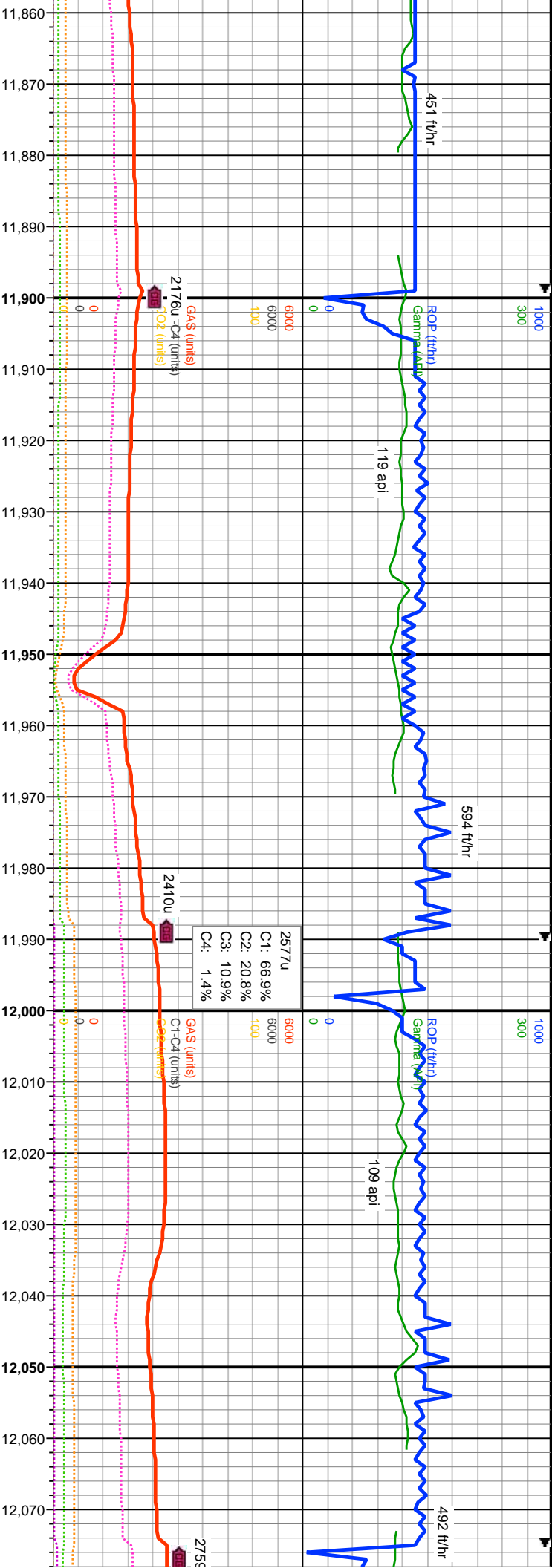




978'	98°	9349.53'	978'	98°	9349.53'
MD: 11.067'	INC: 90.77°	AZM: 268.69°	MD: 11.157'	INC: 89.82°	AZM: 268.72°
TVD: 7.348.17'	VS: 3.628.48'		TVD: 7.347.7'	VS: 3.718.44'	
<p>95% SLTY SS: lgy-bf wh, abnt medgy, sme lt-medbn, mod sft-tp hd, fri, vfg, v stly, mod srt, sr-sb blkly clus, pred cons, rr dsm pyr; 5% SLTY SH: med-drkgy, sb blkly-sb plty, mod sft-fri, rthy, grfy, stly-aren, tr-mod calc</p>			<p>90% SLTY SS: lgy-bf wh, sme medgy, tr lt-medbn, mod sft-sl hd, fri, vfg, v stly, mod srt, sr-sb blkly clus, pred cons, rr dsm pyr; 10% SLTY SH: med-drkgy, sb blkly-sb plty, mod sft-fri, rthy, grfy, stly-aren, tr-mod calc</p>		







MD: 11.874'
 INC: 90.95°
 AZM: 268.87°
 TVD: 7.343.16'
 VS: 4.434.95'

MD: 11.964'
 INC: 90.46°
 AZM: 269.67°
 TVD: 7.342.05'
 VS: 4.524.87'

MD: 12.053'
 INC: 90.77°
 AZM: 269.58°
 TVD: 7.341.09'
 VS: 4.613.78'

2176u

2410u

2577u

2756

mod sft-tr hd, fri, vfig, v silty, mod srt,
 pyr; 15% SLTY SH: med-drkgy, sb

90% SLTY SS: med-drkgy, medbn, sme lgy-ibn, mod sft-tr hd, fri, vfig, v silty, mod srt,
 sr-sb blkly clus, msily cons, tr cly rch, v sl-non calc, tr bent; 10% SLTY SH: med-drkgy,
 sb blkly-sb plty, mod sft-fri, rthy, grfy, silty-aren, v sl calc

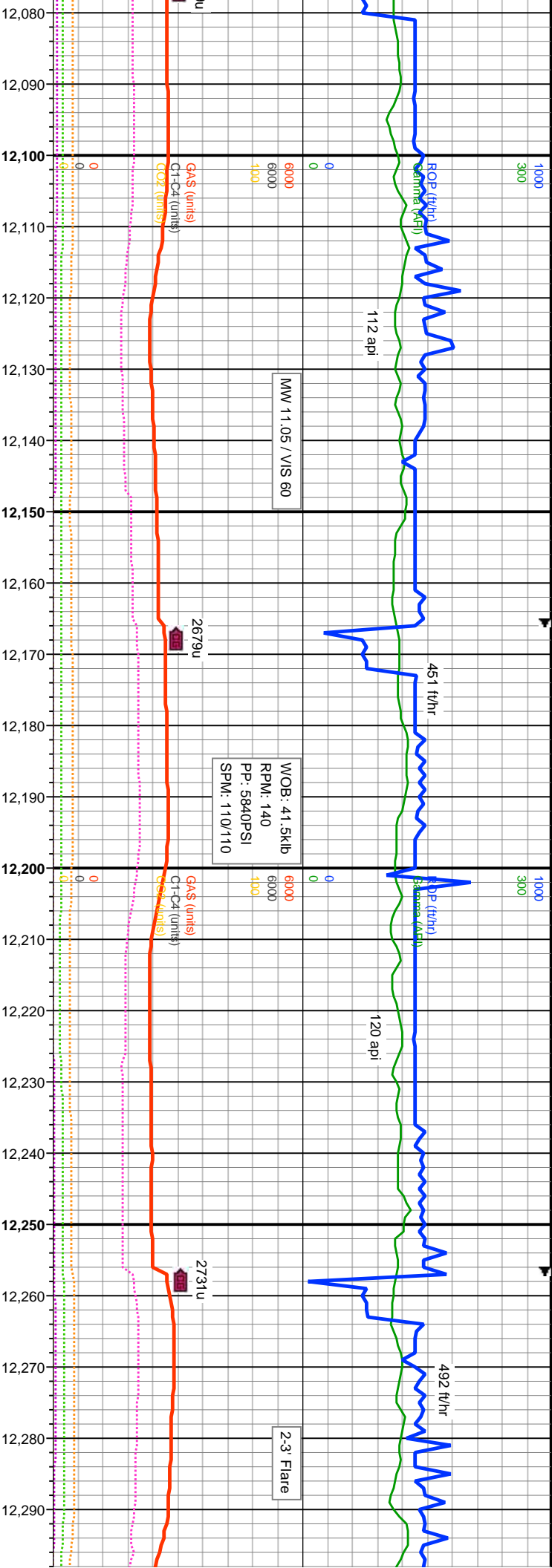
90% SLTY SS: med-drkgy, medbn, sme lgy-ibn, mod sft-tr hd, fri, vfig,
 sr-sb blkly clus, msily cons, tr cly rch, v sl calc; 10% SLTY SH: med-drk
 plty, mod sft-fri, rthy, grfy, silty-aren, v sl calc

8200

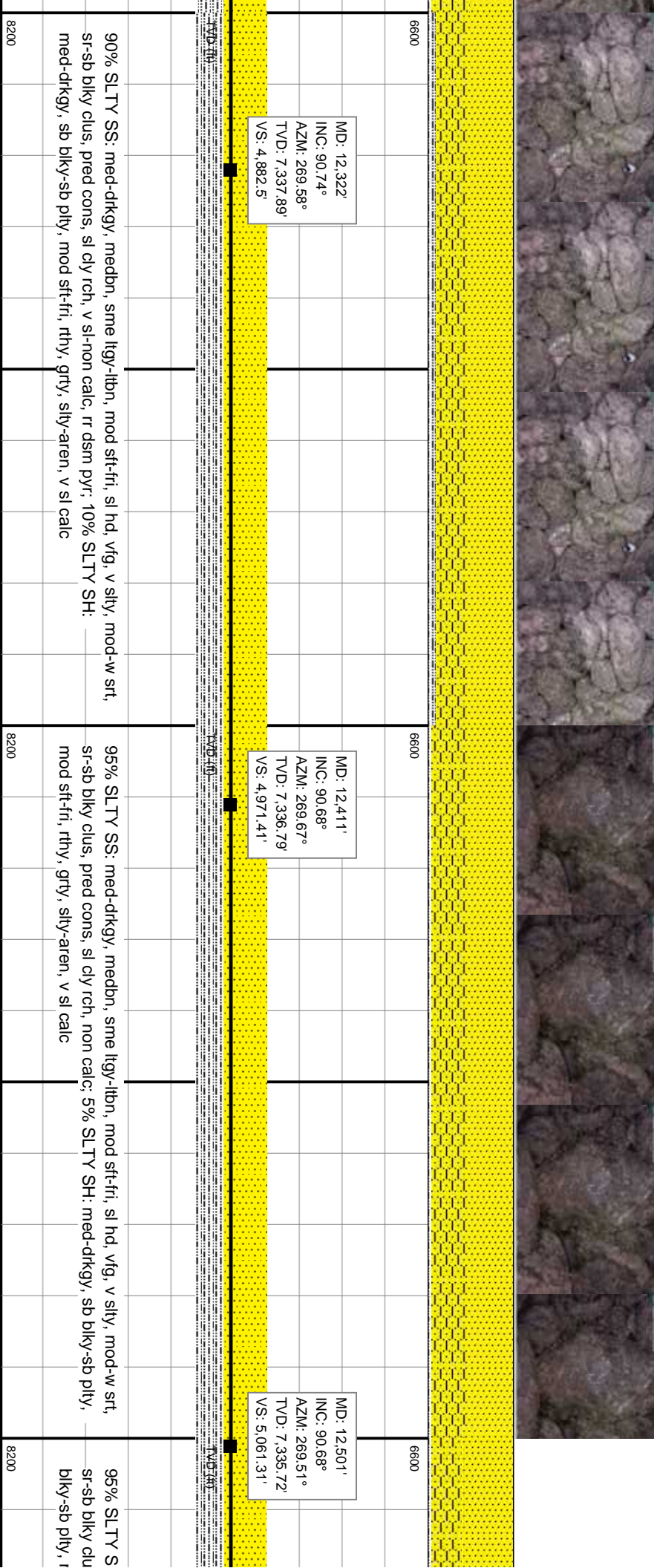
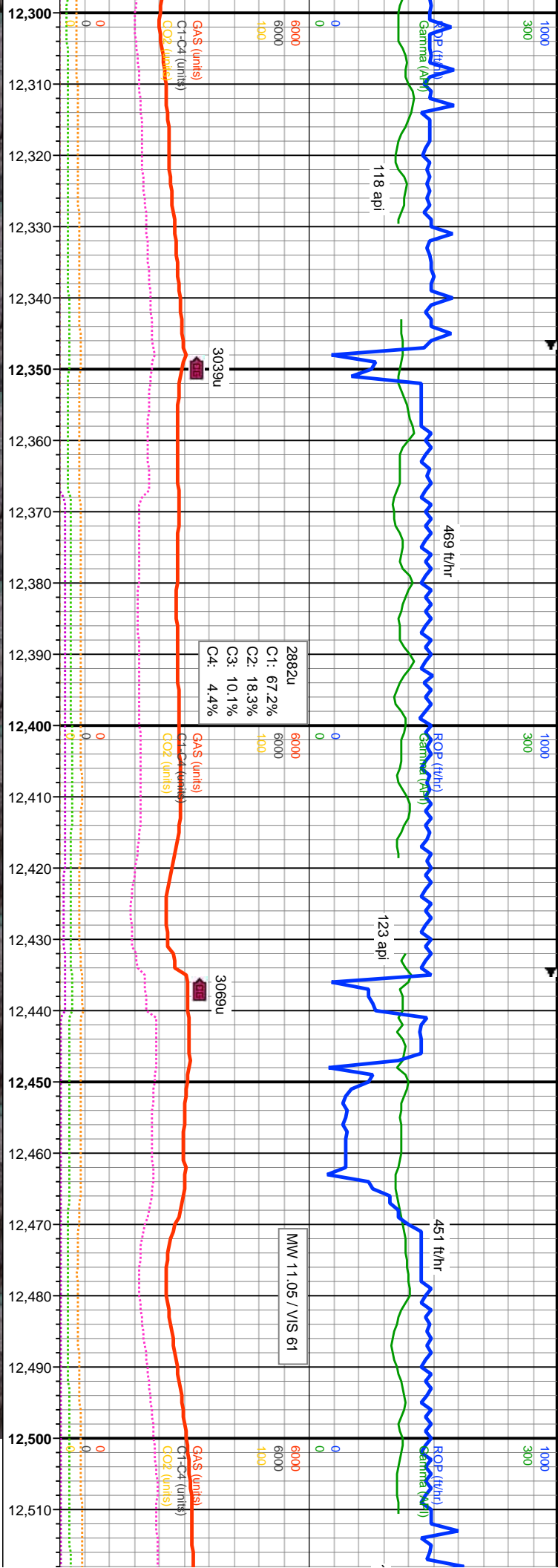
6600

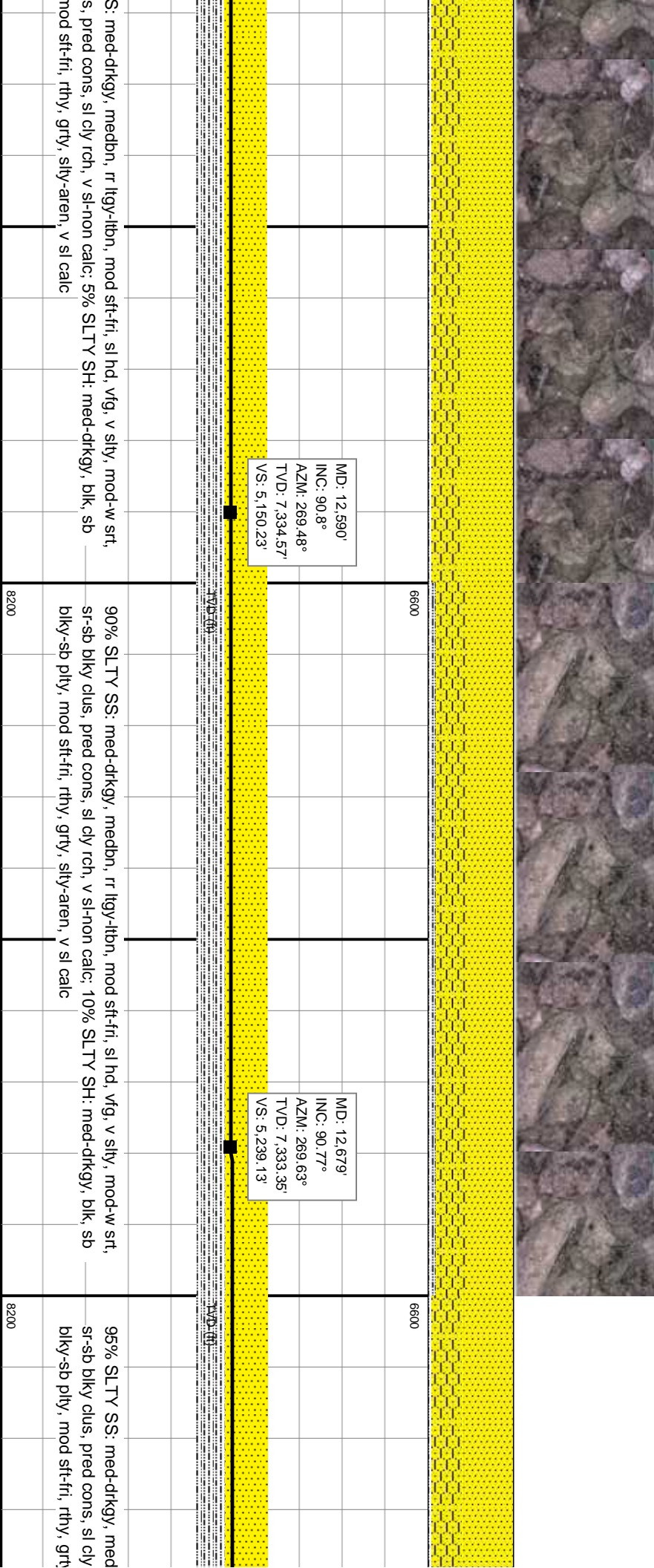
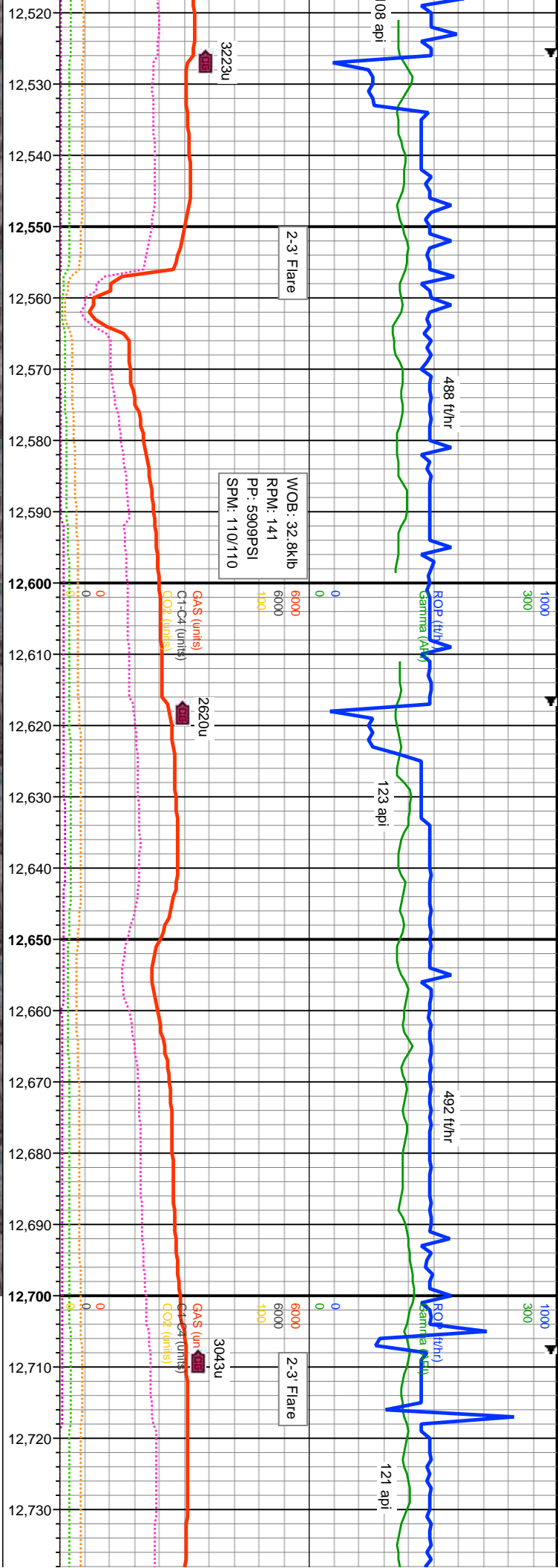
6600

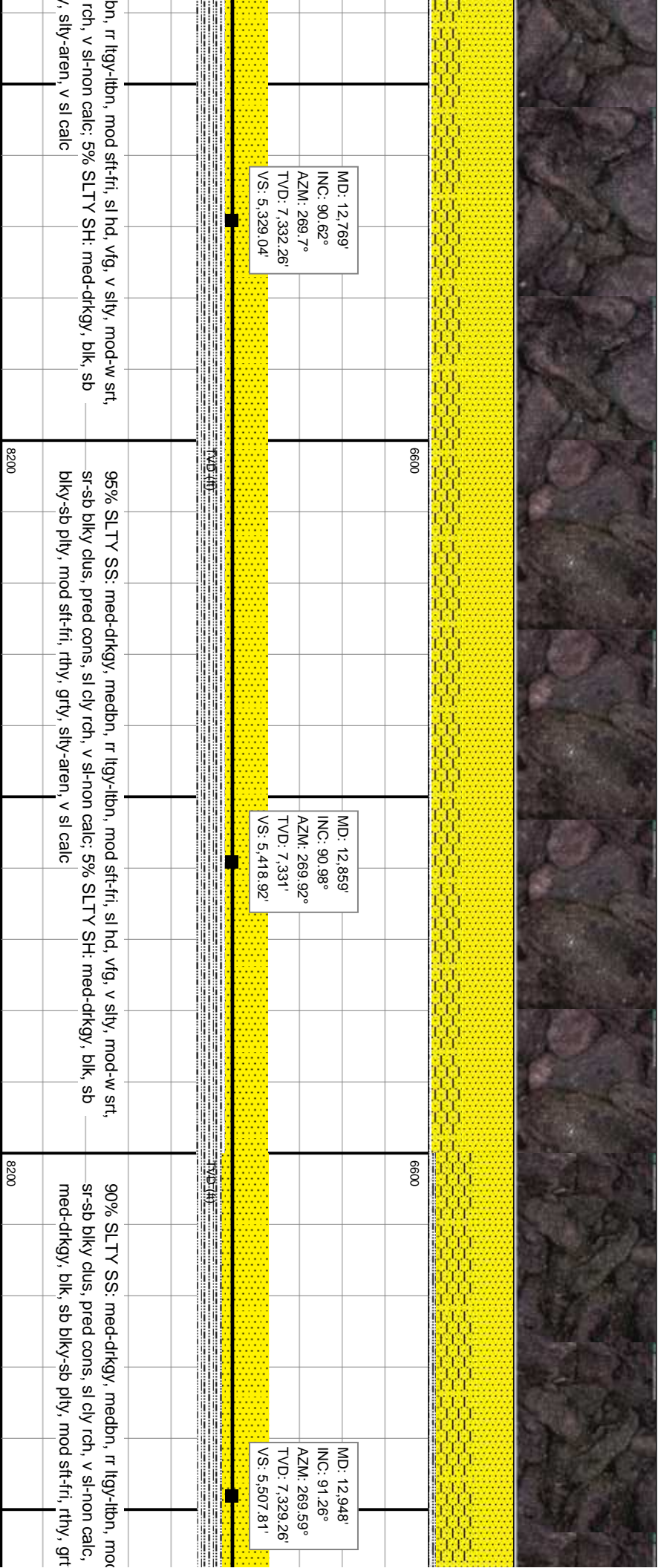
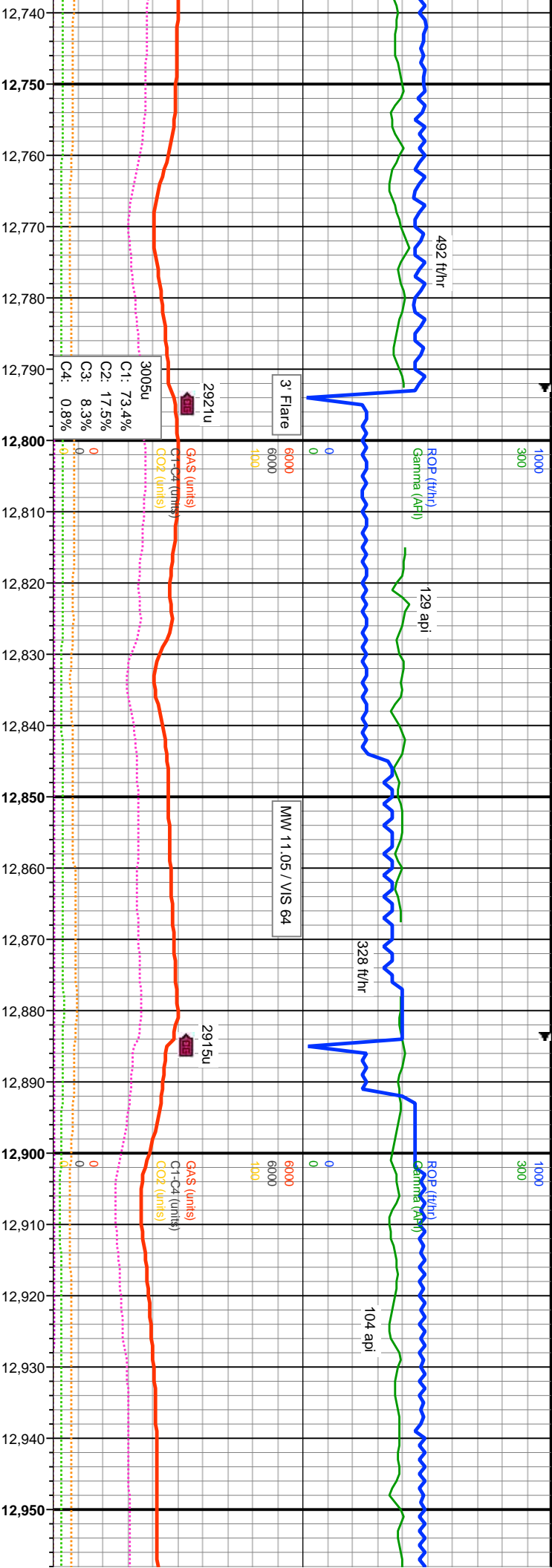
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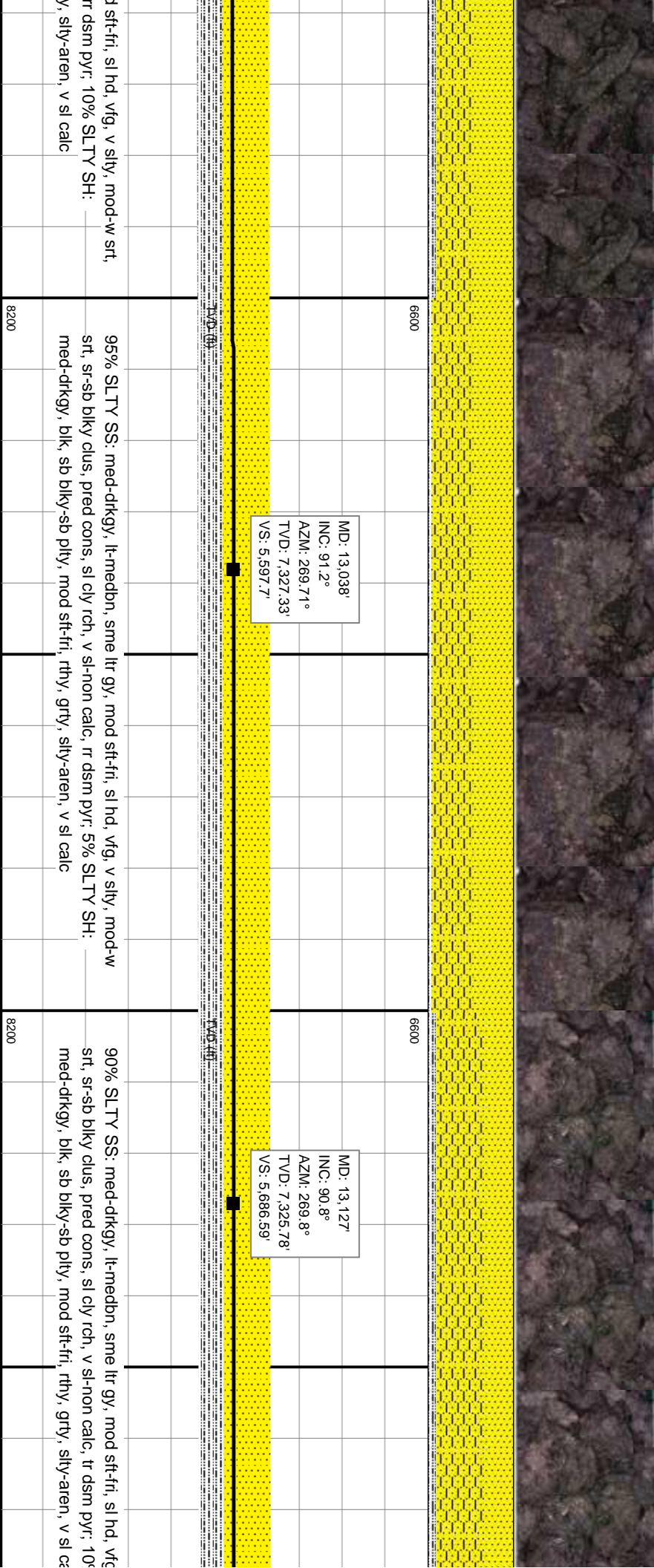
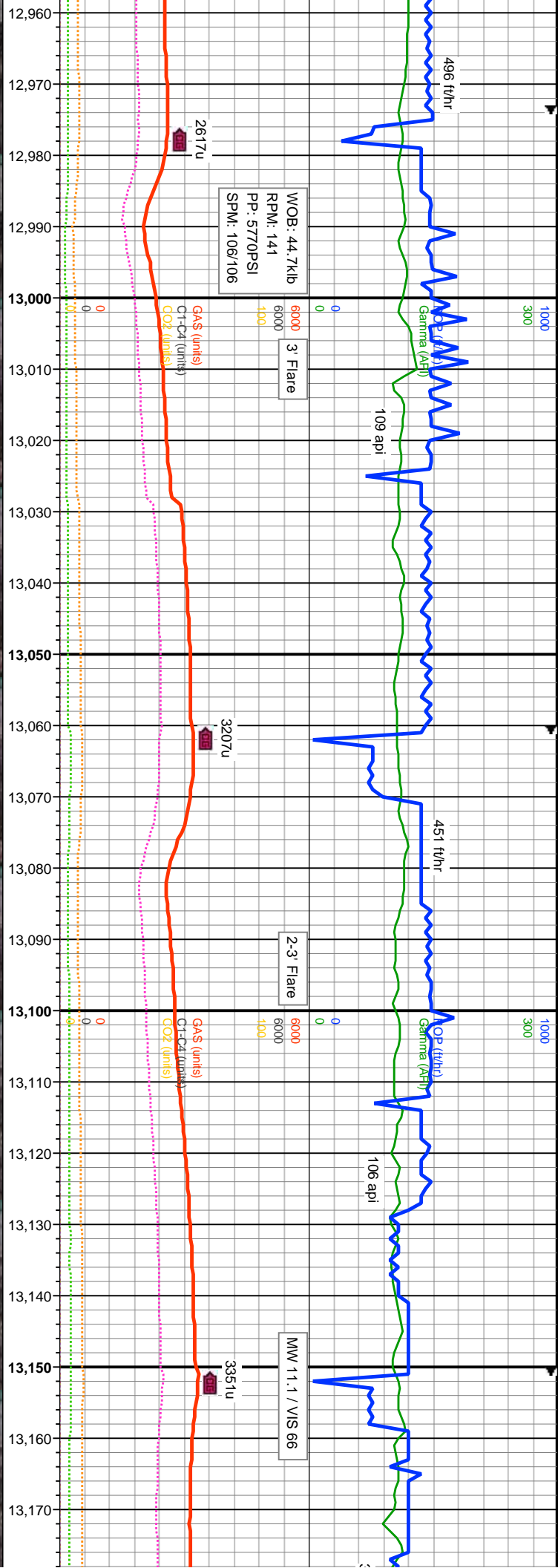


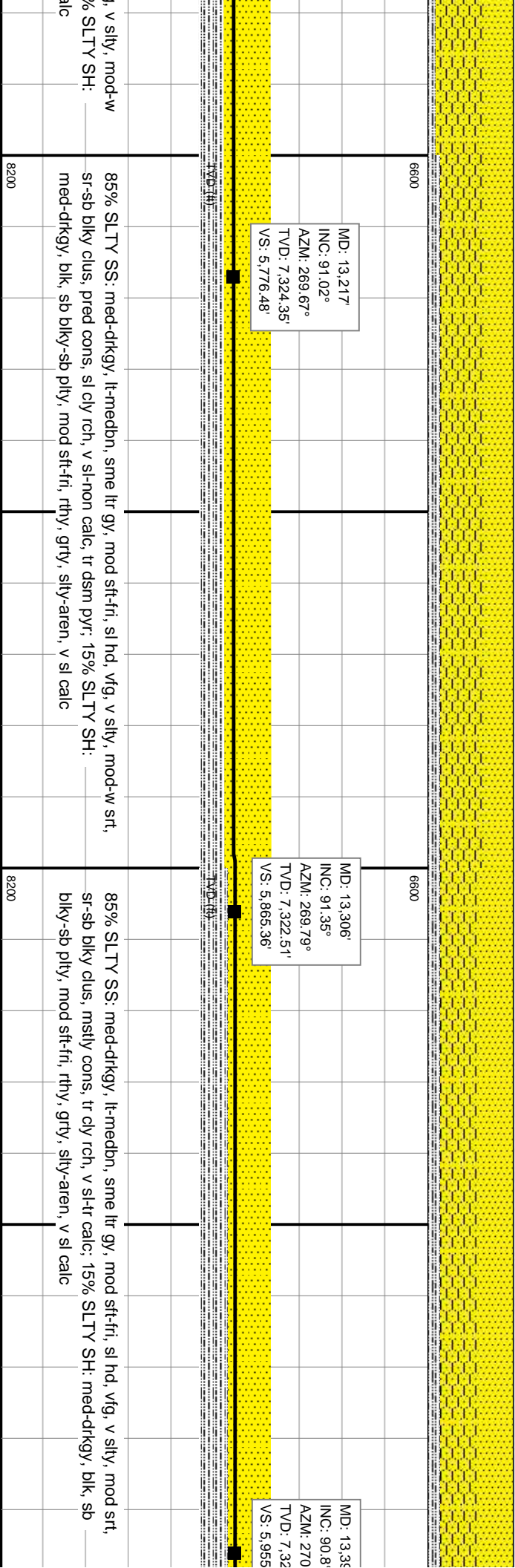
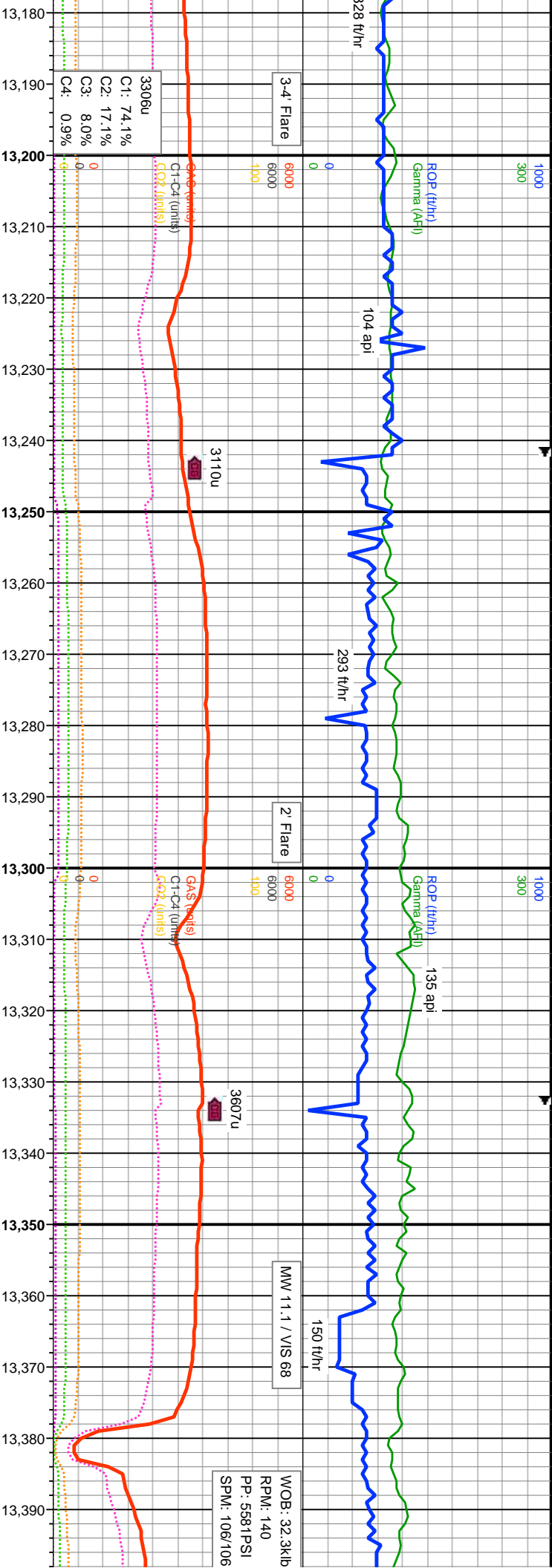
<p>90% SLTY SS: med-dkgy, medbn, sme lgy-ibn, mod stf-fri, sl hd, vfg, v stly, mod-w srt, srs-sb blkly clus, pred cons, sl cly rch, v sl calc; 10% SLTY SH: med-dkgy, sb blkly-sb ply, mod stf-fri, rthy, grfy, stly-aren, v sl calc</p>	<p>MD: 12.143' INC: 90.61° AZM: 269.53° TVD: 7.340.01' VS: 4.703.69'</p>
<p>95% SLTY SS: med-dkgy, medbn, sme lgy-ibn, mod stf-fri, sl hd, vfg, v stly, mod-w srt, srs-sb blkly clus, pred cons, sl cly rch, v sl-non calc; 5% SLTY SH: med-dkgy, sb blkly-sb ply, mod stf-fri, rthy, grfy, stly-aren, v sl calc</p>	<p>MD: 12.232' INC: 90.68° AZM: 269.62° TVD: 7.339.01' VS: 4.792.6'</p>

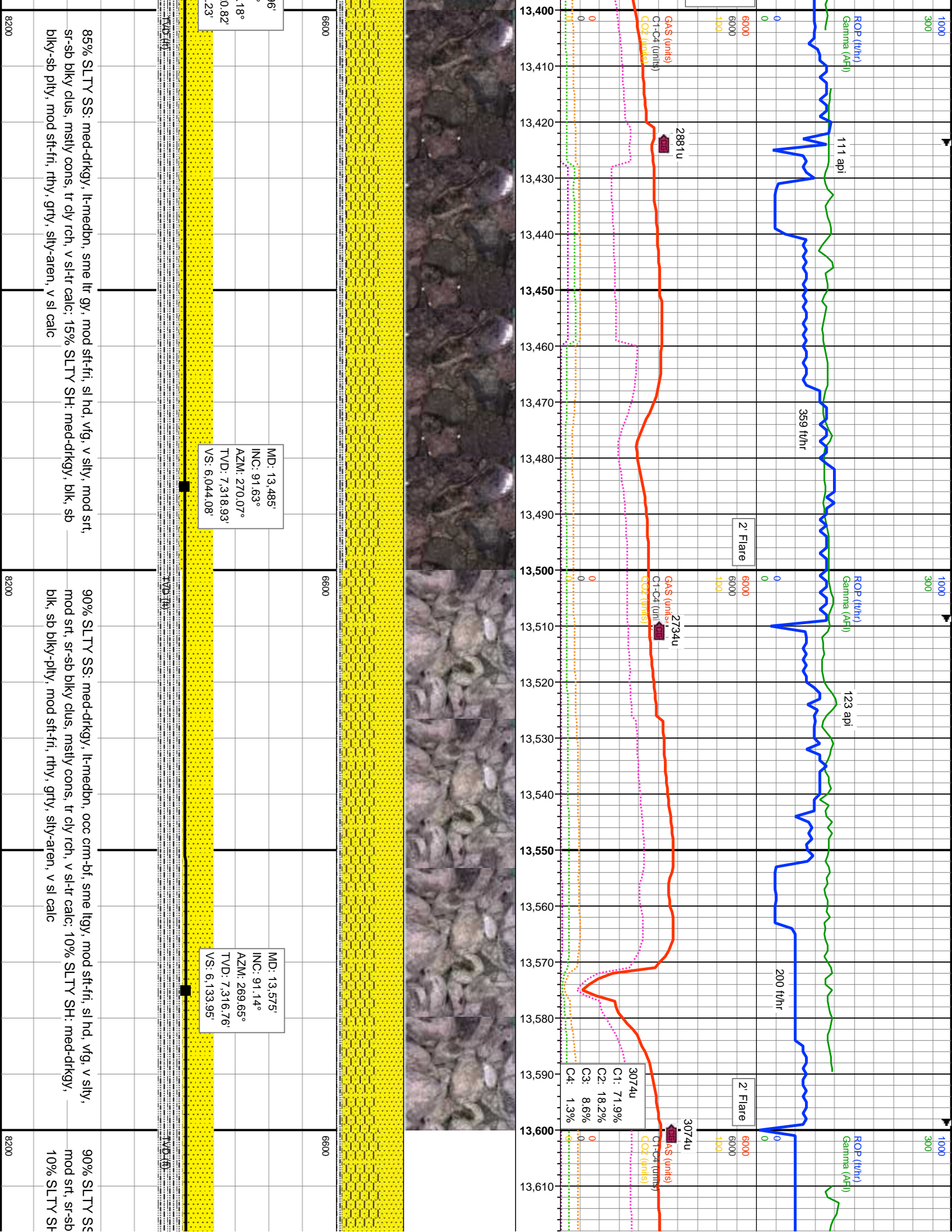


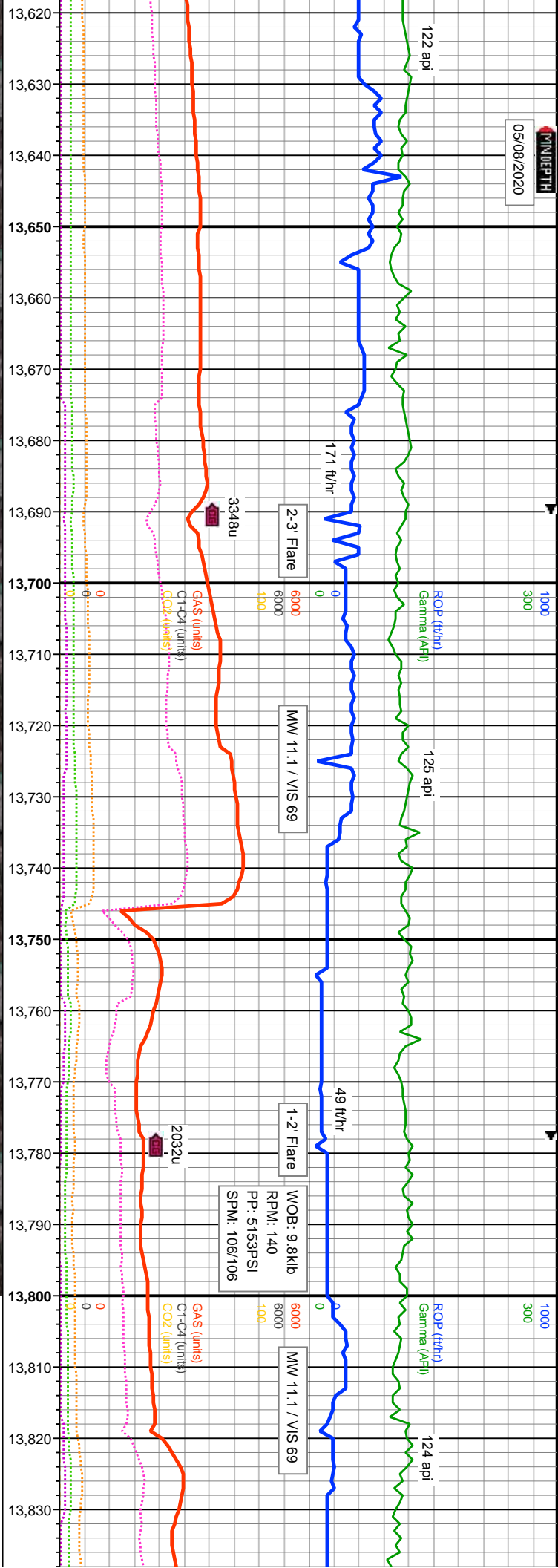








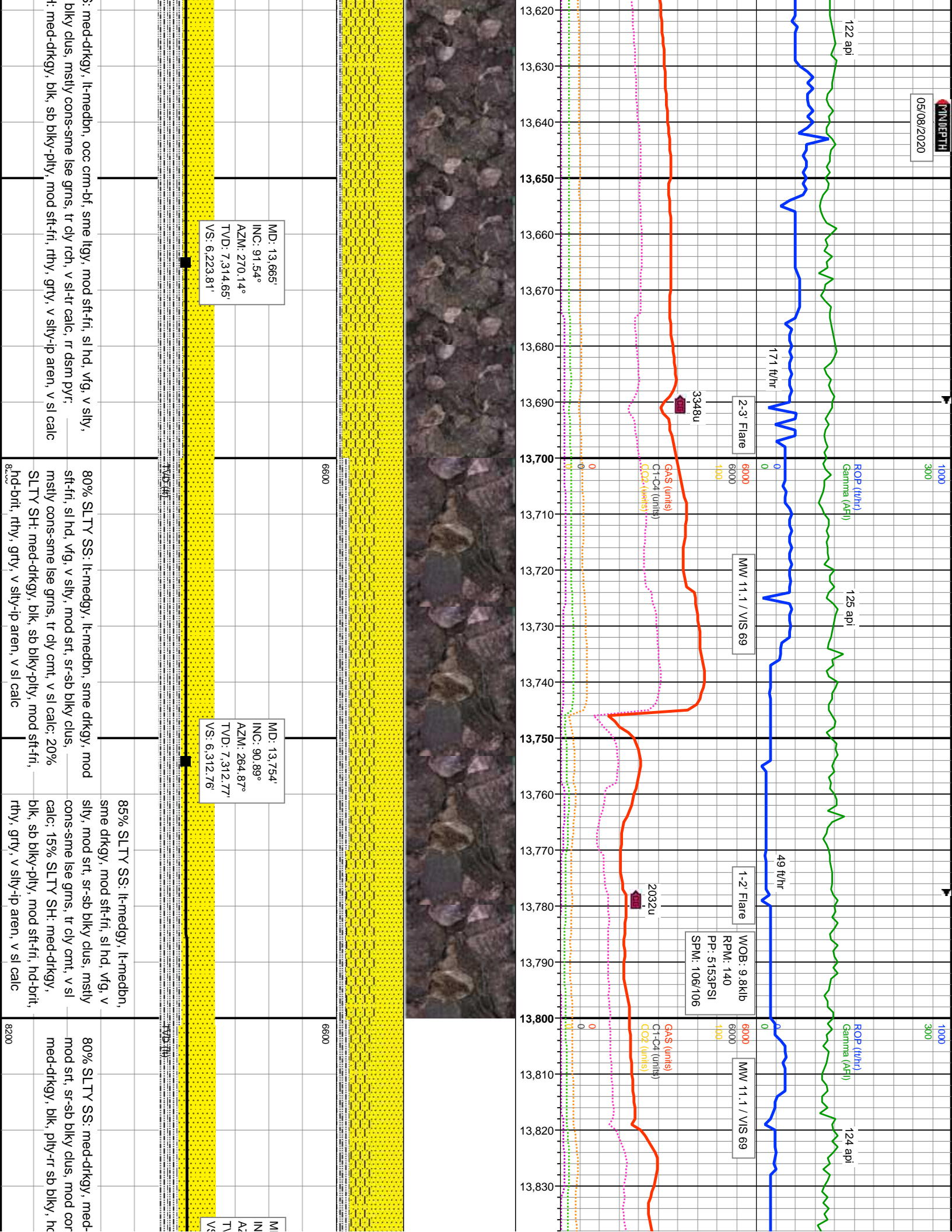




MD: 13,665'
 INC: 91.54°
 AZM: 270.14°
 TVD: 7,314.65'
 VS: 6,223.81'

MD: 13,754'
 INC: 90.89°
 AZM: 264.87°
 TVD: 7,312.77'
 VS: 6,312.76'

M
 IN
 AZ
 TV
 VS

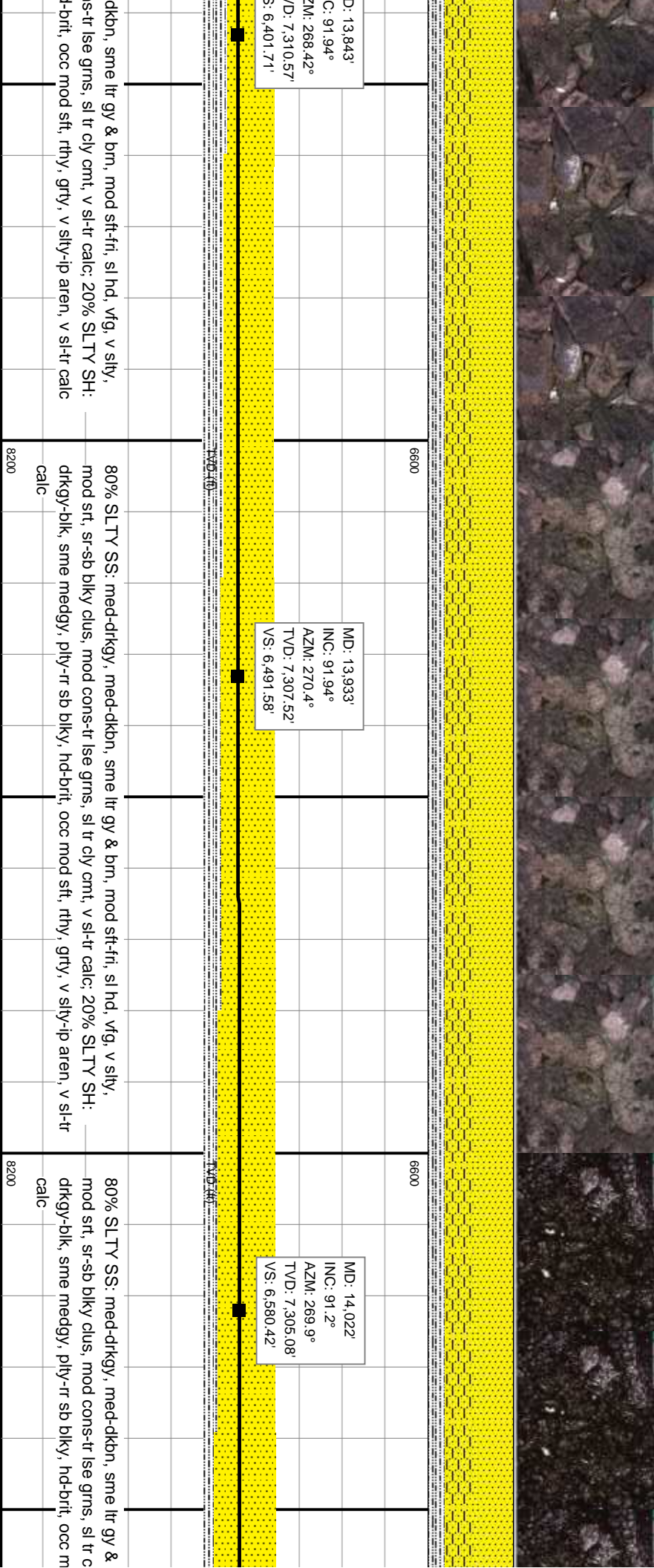
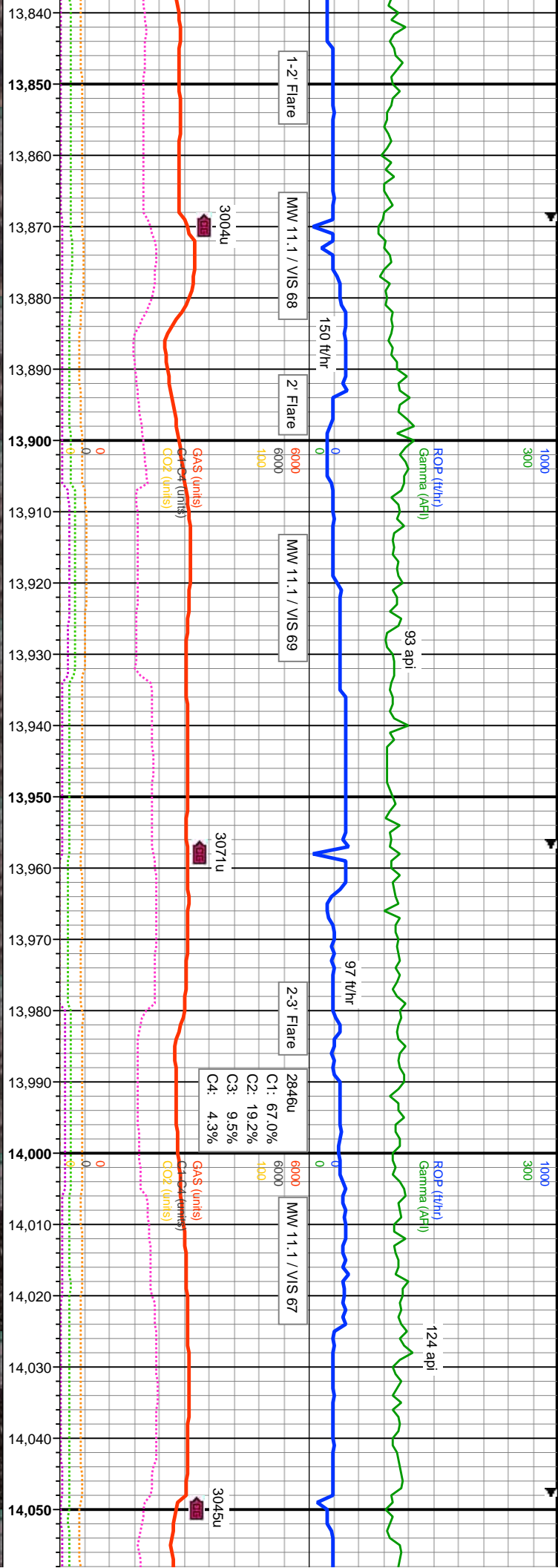


med-drkgy, lt-medbn, occ crm-bf, sme lgy, mod stf-fri, sl hd, vfg, v silty, blkly clus, mstly cons-sme lse grns, tr cly rch, v sl-tr calc, tr dsm pyr, med-drkgy, blk, sb blkly-pty, mod stf-fri, rthy, grty, v silty-ip aren, v sl calc

80% SLTY SS: lt-medgy, lt-medbn, sme drkgy, mod stf-fri, sl hd, vfg, v silty, mod srt, sr-sb blkly clus, mstly cons-sme lse grns, tr cly cmt, v sl calc; 20% SLTY SH: med-drkgy, blk, sb blkly-pty, mod stf-fri, hd-brit, rthy, grty, v silty-ip aren, v sl calc

85% SLTY SS: lt-medgy, lt-medbn, sme drkgy, mod stf-fri, sl hd, vfg, v silty, mod srt, sr-sb blkly clus, mstly cons-sme lse grns, tr cly cmt, v sl calc; 15% SLTY SH: med-drkgy, blk, sb blkly-pty, mod stf-fri, hd-brit, rthy, grty, v silty-ip aren, v sl calc

80% SLTY SS: med-drkgy, med-mod srt, sr-sb blkly clus, mod cor med-drkgy, blk, pty-rr sb blkly, hc



D: 13,843'
C: 91.94°
M: 268.42°
D: 7.31057'

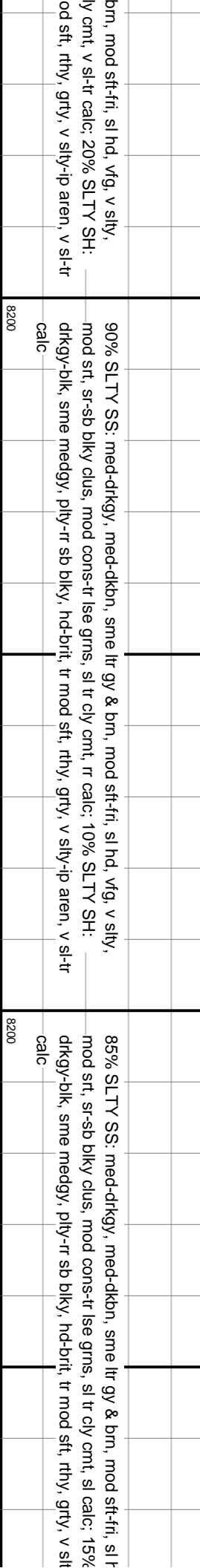
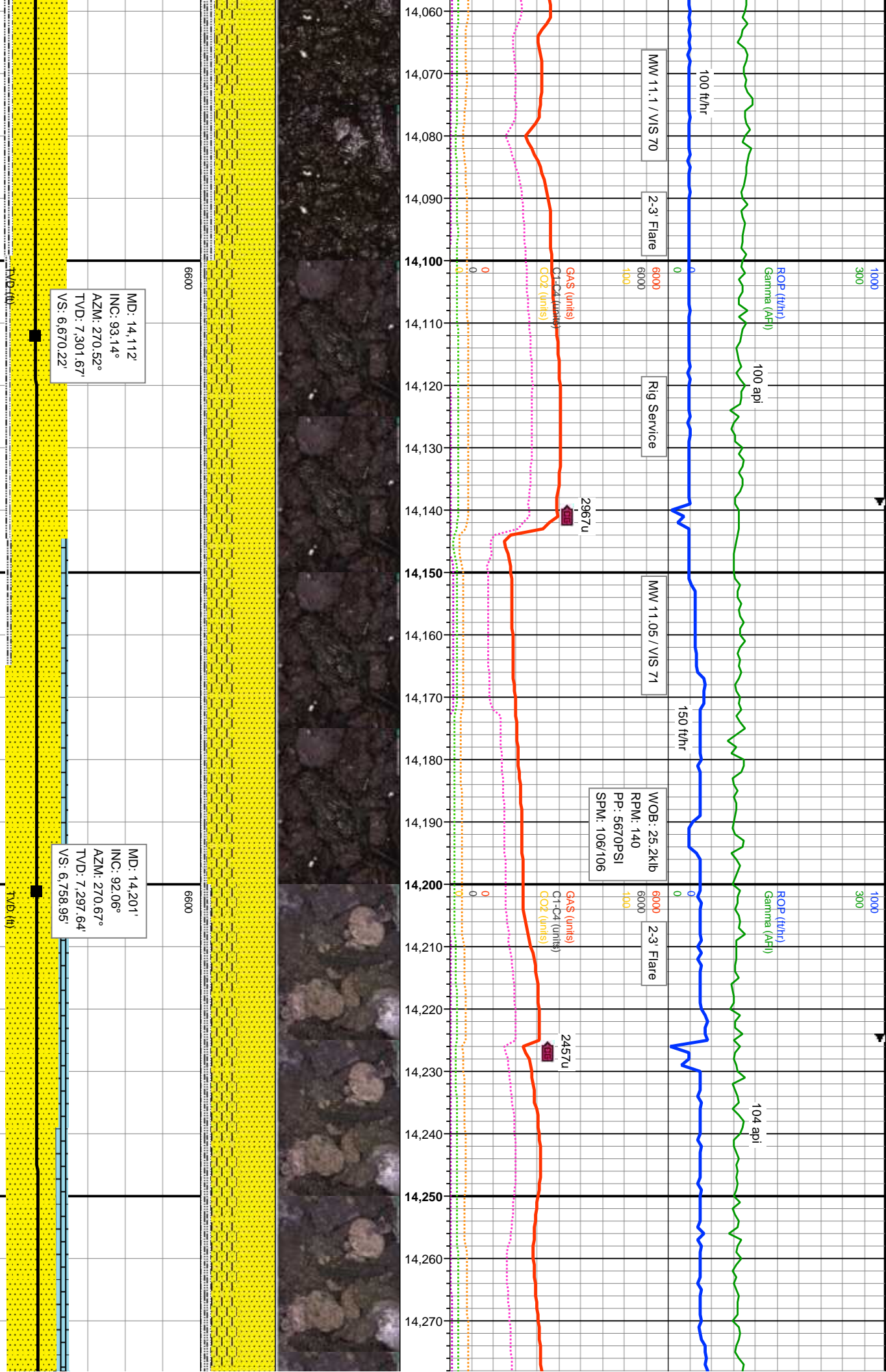
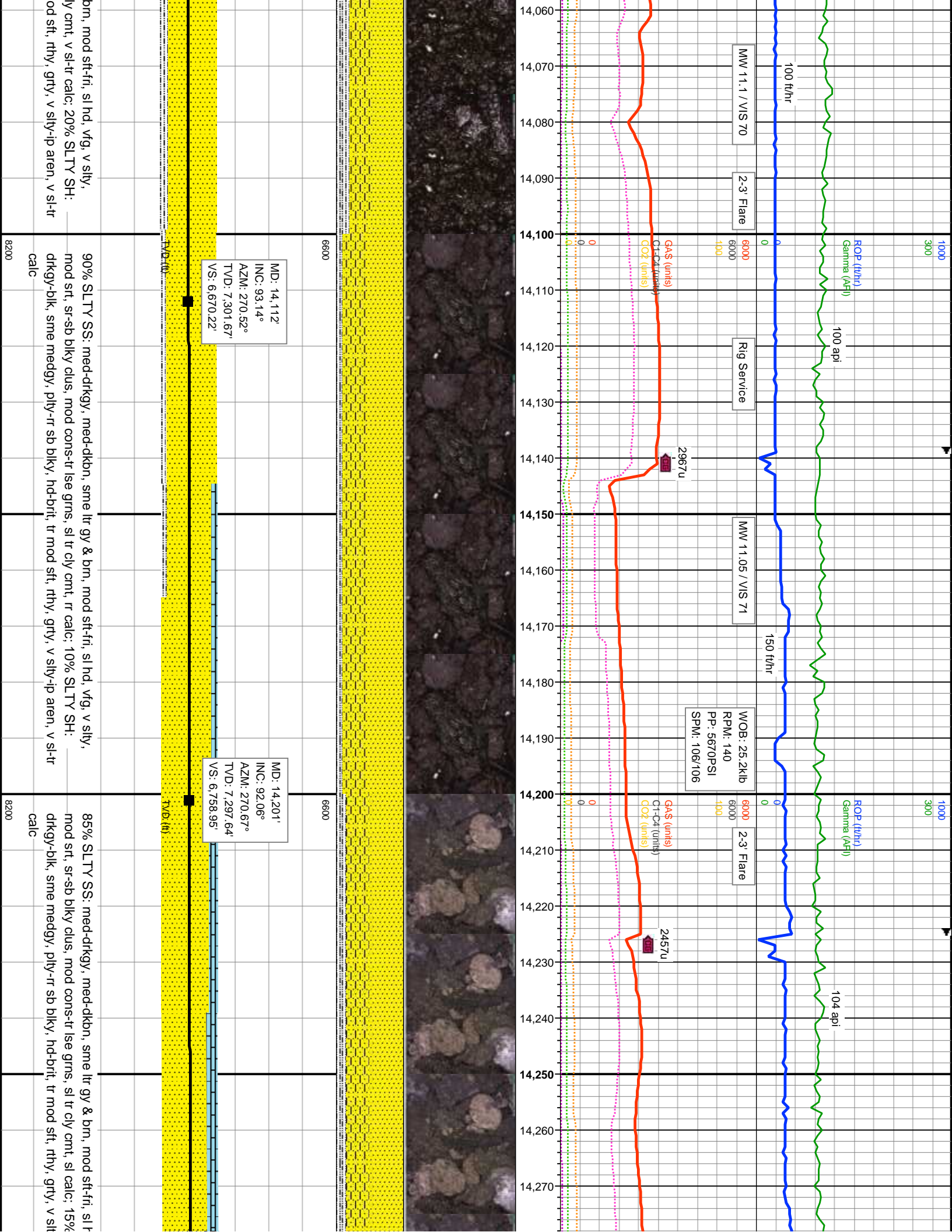
MD: 13,933'
INC: 91.94°
AZM: 270.4°
TVD: 7,307.52'
VS: 6,491.58'

MD: 14,022'
INC: 91.2°
AZM: 269.9°
TVD: 7,305.08'
VS: 6,580.42'

dkkn, sme tr gy & brn, mod st-fri, sl hd, vfg, v silty,
s-tr lse grns, sl tr cly cnt, v sl-tr calc, 20% SLTY SH:
hd-brit, occ mod sft, rthy, grty, v silty-ip aren, v sl-tr calc

80% SLTY SS: med-drgy, med-dkn, sme tr gy & brn, mod st-fri, sl hd, vfg, v silty,
mod srt, sr-sb blkly clus, mod cons-tr lse grns, sl tr cly cnt, v sl-tr calc, 20% SLTY SH:
drky-blk, sme medgy, plty-tr sb blkly, hd-brit, occ mod sft, rthy, grty, v silty-ip aren, v sl-tr
calc

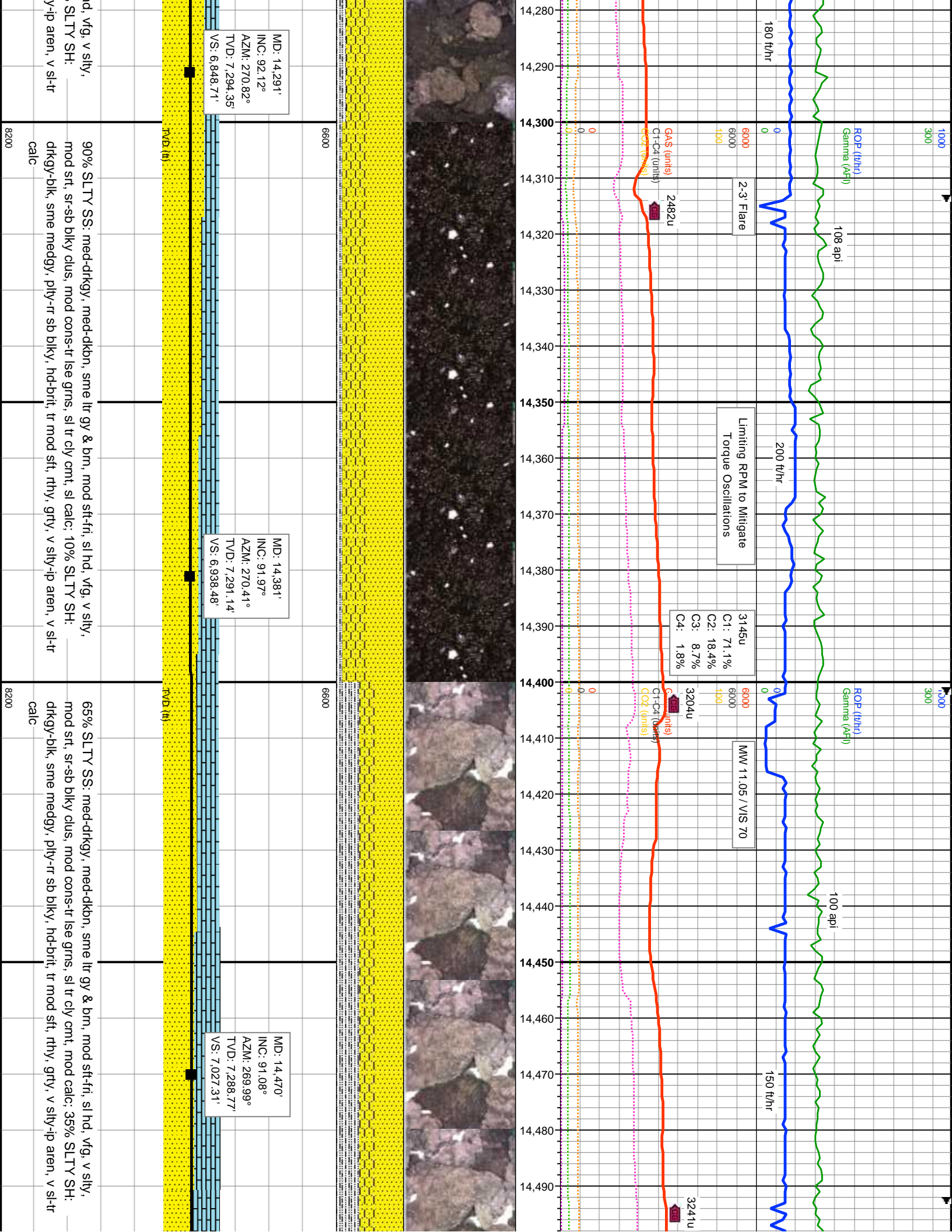
80% SLTY SS: med-drgy, med-dkn, sme tr gy &
mod srt, sr-sb blkly clus, mod cons-tr lse grns, sl tr c
drky-blk, sme medgy, plty-tr sb blkly, hd-brit, occ m
calc



brn, mod st-fri, sl hd, vfg, v silty, cmt, v sl-tr calc; 20% SLTY SH: drkgy-blk, sme medgy, plty-rr sb blkly, hd-brit, tr mod sft, rthy, grty, v stly-ip aren, v sl-tr calc

90% SLTY SS: med-drkgy, med-dkn, sme tr gy & brn, mod st-fri, sl hd, vfg, v silty, mod srt, sr-sb blkly clus, mod cons-tr lse grns, sl tr cly cnt, rr calc; 10% SLTY SH: drkgy-blk, sme medgy, plty-rr sb blkly, hd-brit, tr mod sft, rthy, grty, v stly-ip aren, v sl-tr calc

85% SLTY SS: med-drkgy, med-dkn, sme tr gy & brn, mod st-fri, sl f mod srt, sr-sb blkly clus, mod cons-tr lse grns, sl tr cly cnt, sl calc; 15% drkgy-blk, sme medgy, plty-rr sb blkly, hd-brit, tr mod sft, rthy, grty, v st calc



ROP (ft/hr)
Gamma (API)

180 ft/hr
108 api
200 ft/hr
100 api
150 ft/hr

2-3' Flare
Limiting RPM to Mitigate Torque Oscillations
MW 11.05 / VIS 70

C1: 71.1%
C2: 18.4%
C3: 8.7%
C4: 1.8%

GAS (units)
C1-C4 (units)
C02 (units)

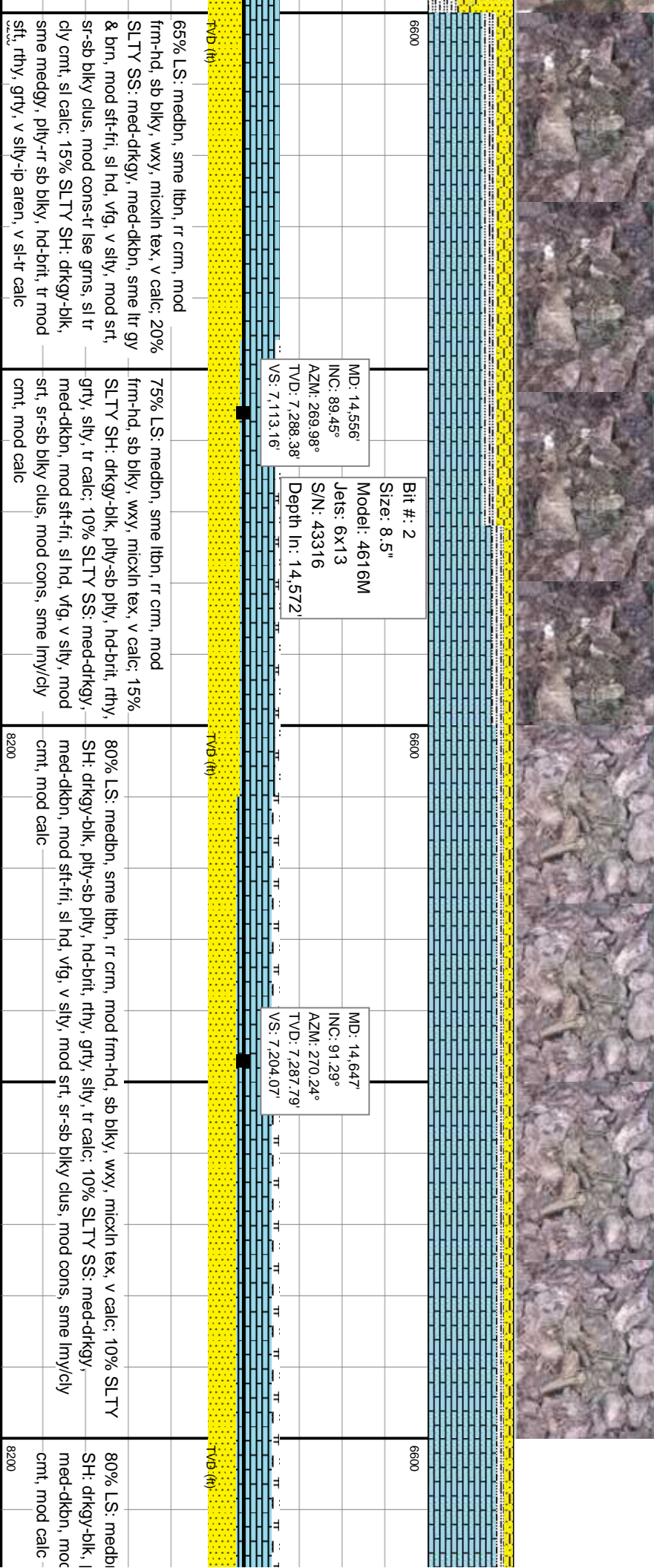
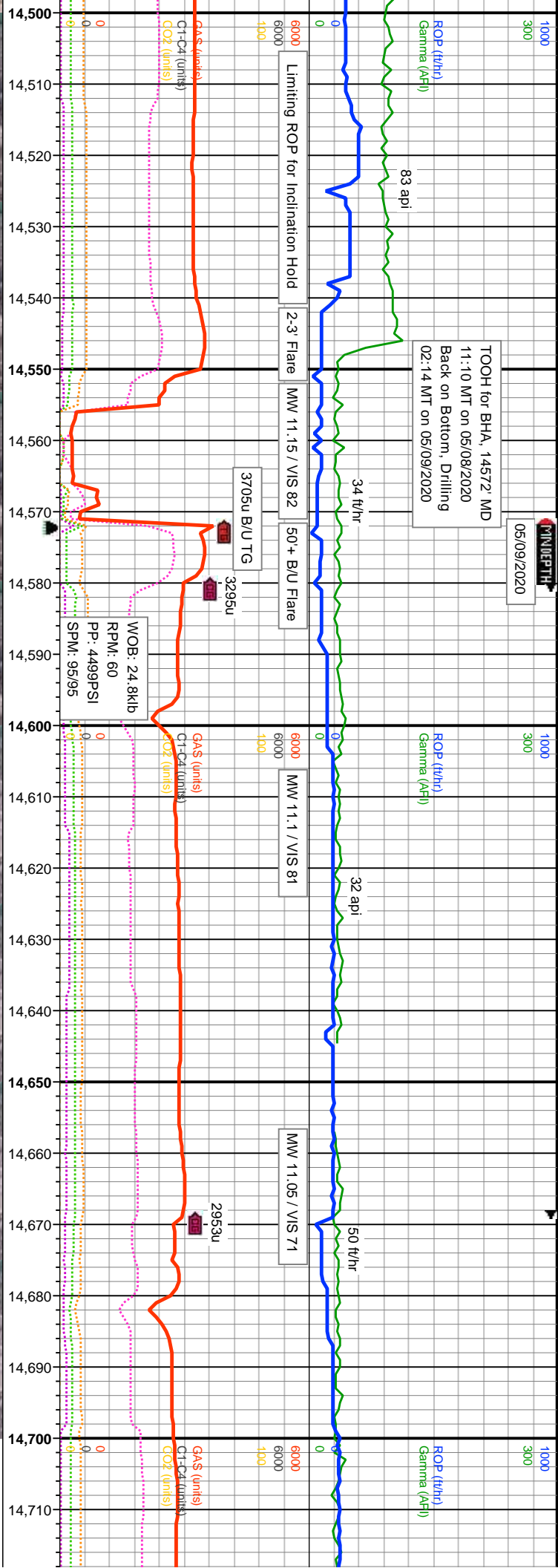
MD: 14,291'
INC: 92.12°
AZM: 270.82°
TVD: 7,294.35'
VS: 6,848.71'

MD: 14,381'
INC: 91.97°
AZM: 270.41°
TVD: 7,291.14'
VS: 6,938.48'

MD: 14,470'
INC: 91.08°
AZM: 269.99°
TVD: 7,288.77'
VS: 7,027.31'

90% SLTY SS: med-drkgy, med-dkn, sme tr gy & brn, mod st-fri, sl hd, vfg, v silty,
mod srt, sr-sb blkly clus, mod const-r lse grns, sl tr cly cnt, sl calc; 10% SLTY SH:
drkgy-blk, sme medgy, plty-tr sb blkly, hd-brt, tr mod sft, rthy, grty, v stly-ip aren, v sl-tr calc

65% SLTY SS: med-drkgy, med-dkn, sme tr gy & brn, mod st-fri, sl hd, vfg, v silty,
mod srt, sr-sb blkly clus, mod const-r lse grns, sl tr cly cnt, mod calc; 35% SLTY SH:
drkgy-blk, sme medgy, plty-tr sb blkly, hd-brt, tr mod sft, rthy, grty, v stly-ip aren, v sl-tr calc

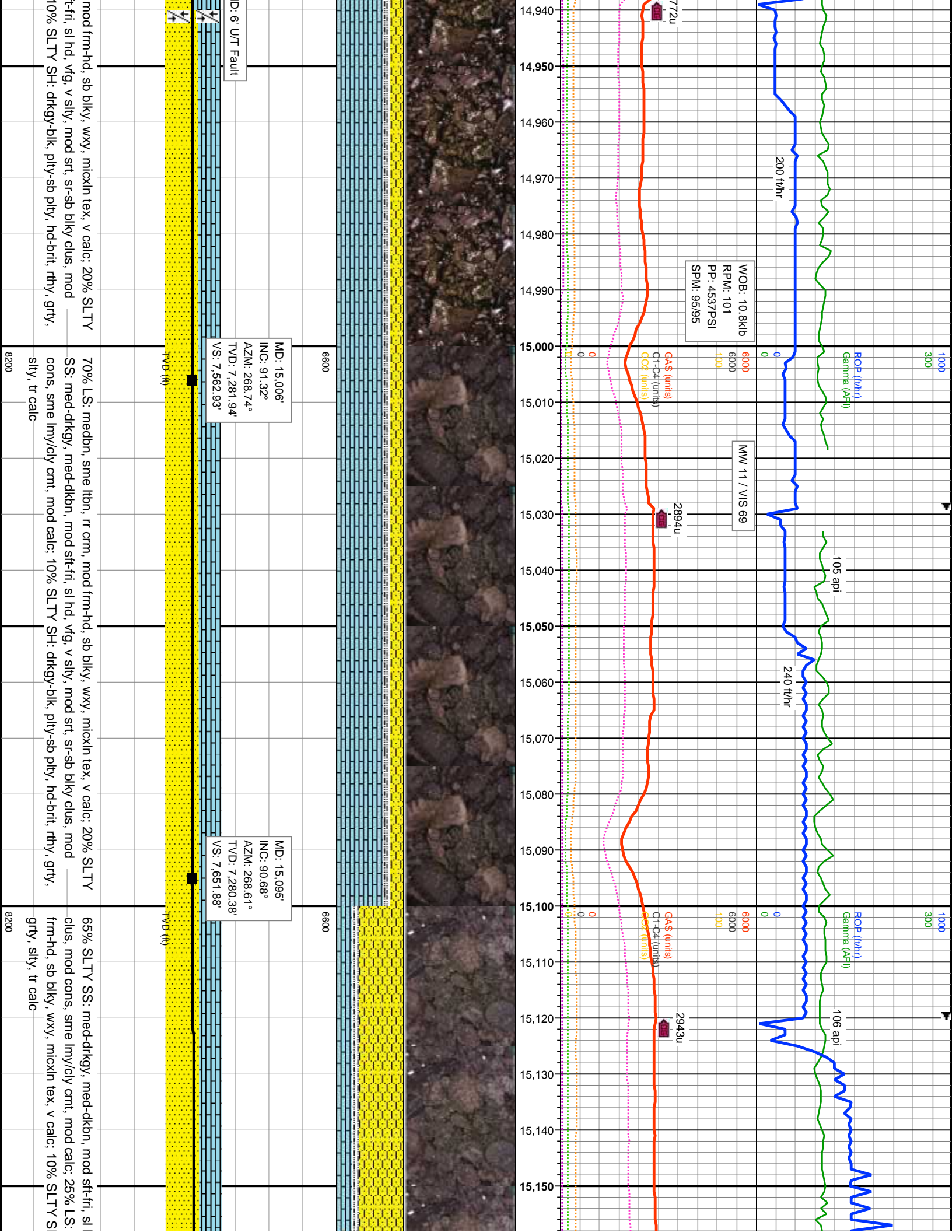


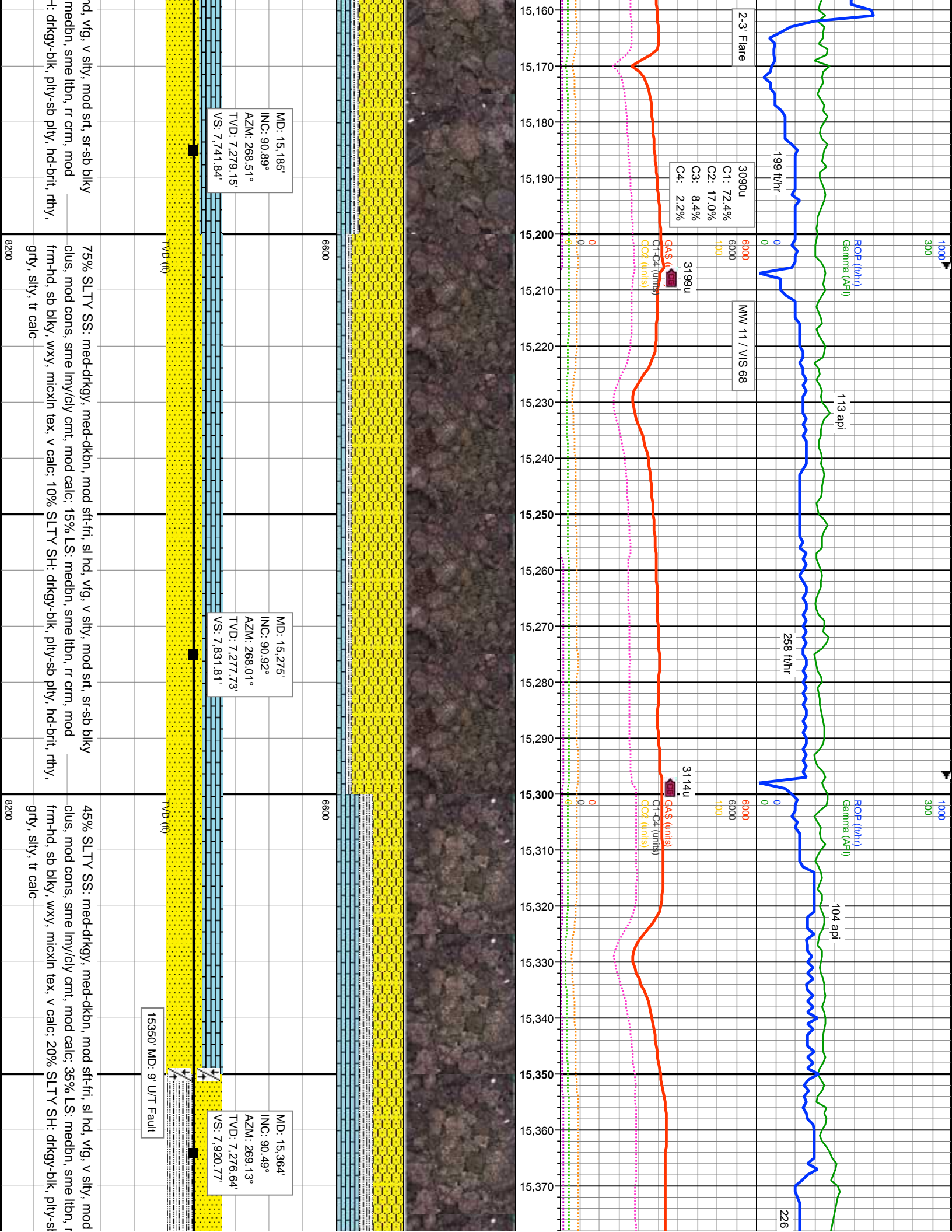
65% LS: medbn, sme lbn, rr crm, mod frm-hd, sb blk, wxy, micxn tex, v calc, 20% SLTY SS: med-dkgy, med-dkbn, sme tr gy & brn, mod sft-frt, sl hd, vfg, v slty, mod srt, sr-sb blk, mod cons-tr lse grns, sl tr cly cmt, sl calc, 15% SLTY SH: drkgy-blk, sme medgy, plty-rr sb blk, hd-brt, tr mod sft, rthy, grfy, v slty-ip aren, v sl-tr calc

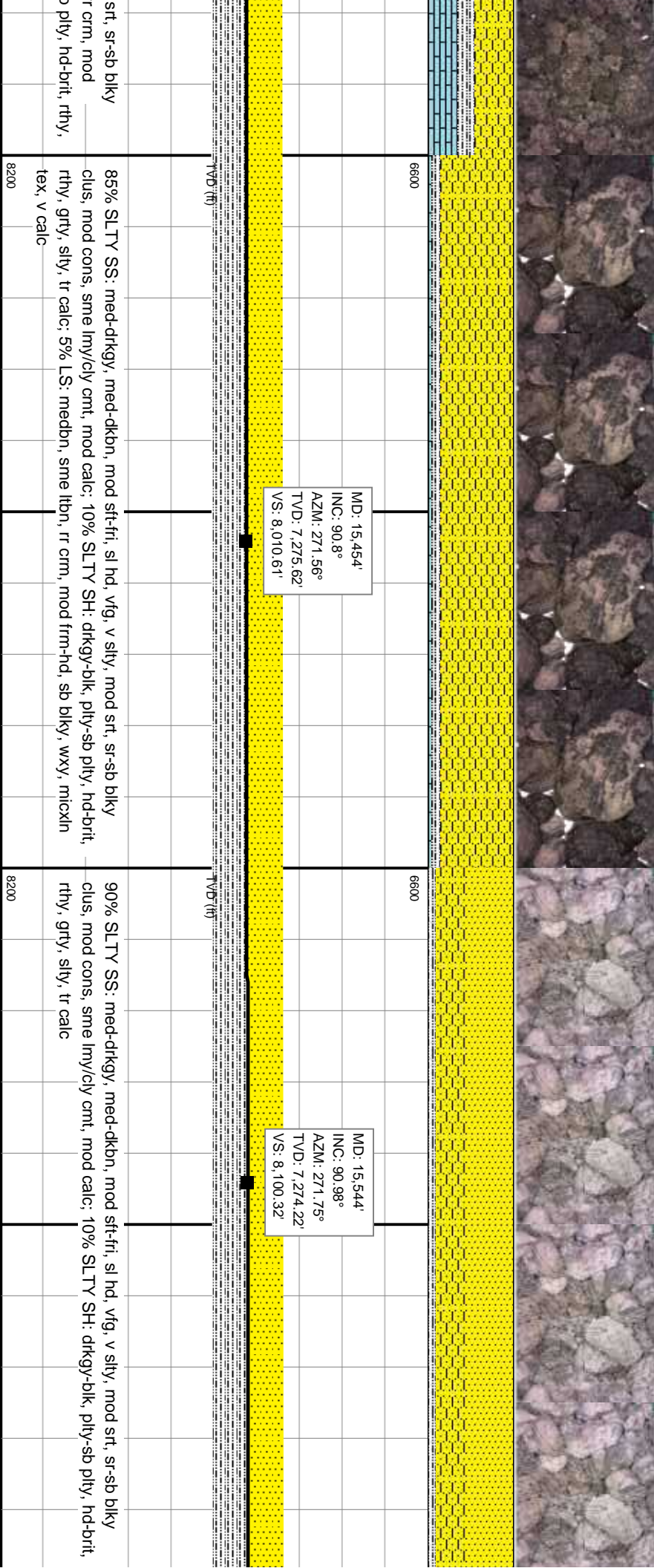
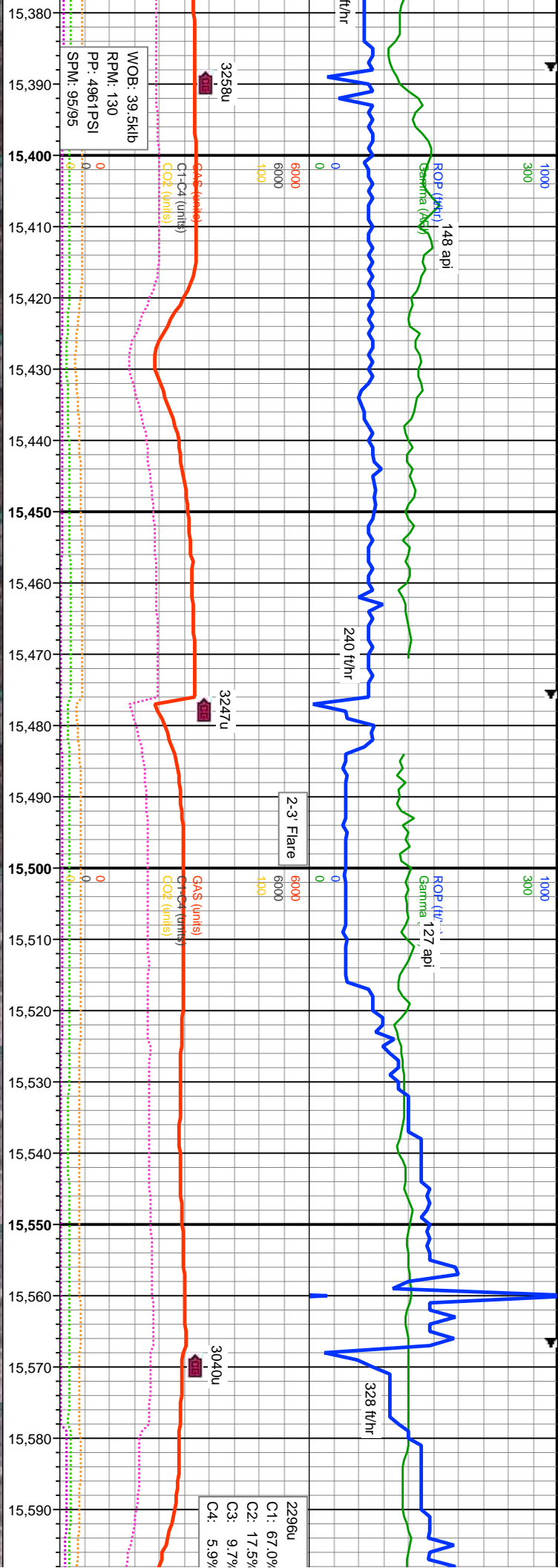
75% LS: medbn, sme lbn, rr crm, mod frm-hd, sb blk, wxy, micxn tex, v calc, 15% SLTY SH: drkgy-blk, plty-sb plty, hd-brt, rthy, grfy, slty, tr calc, 10% SLTY SS: med-dkgy, med-dkbn, mod sft-frt, sl hd, vfg, v slty, mod srt, sr-sb blk, mod cons, sme lmy/cly cmt, mod calc

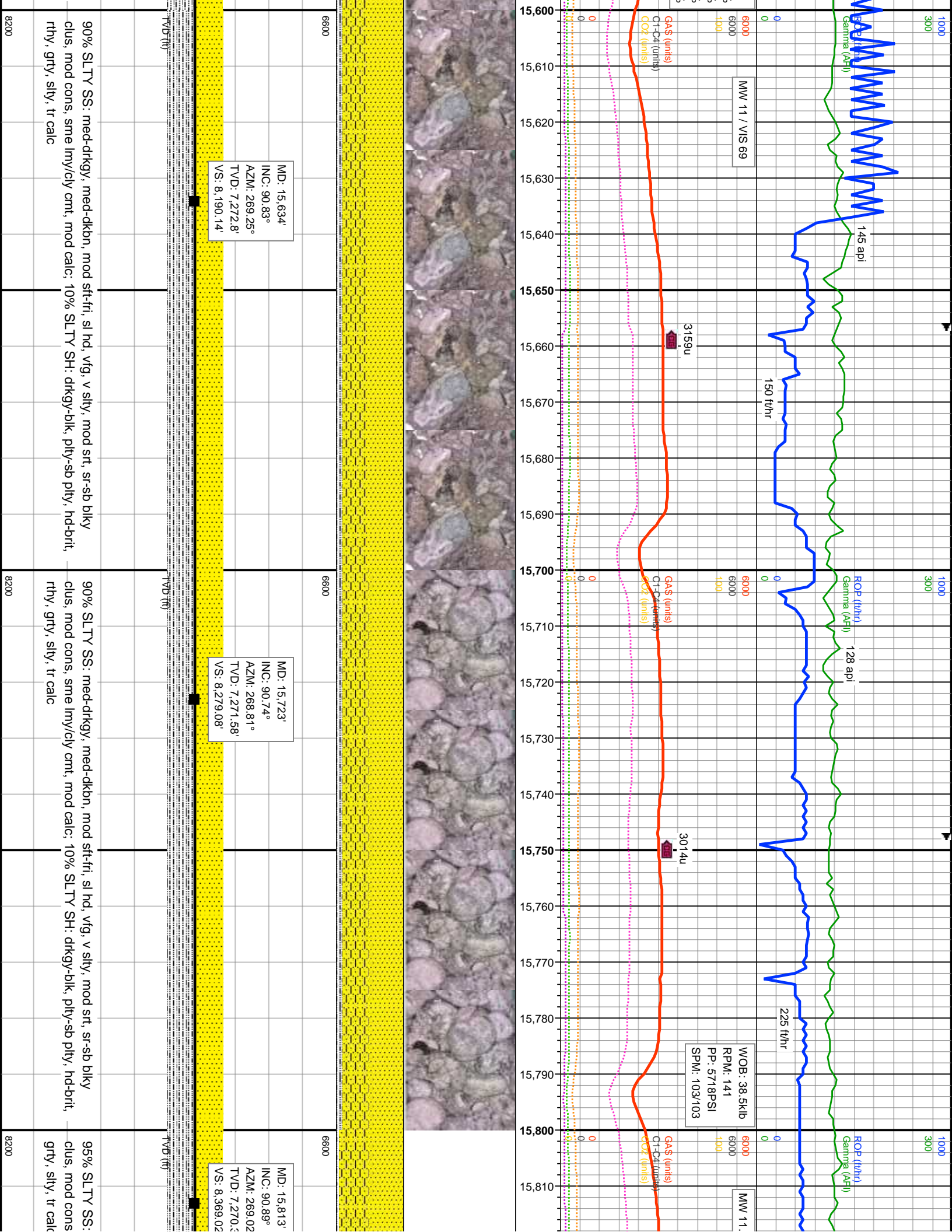
80% LS: medbn, sme lbn, rr crm, mod frm-hd, sb blk, wxy, micxn tex, v calc, 10% SLTY SH: drkgy-blk, plty-sb plty, hd-brt, rthy, grfy, slty, tr calc, 10% SLTY SS: med-dkgy, med-dkbn, mod sft-frt, sl hd, vfg, v slty, mod srt, sr-sb blk, mod cons, sme lmy/cly cmt, mod calc

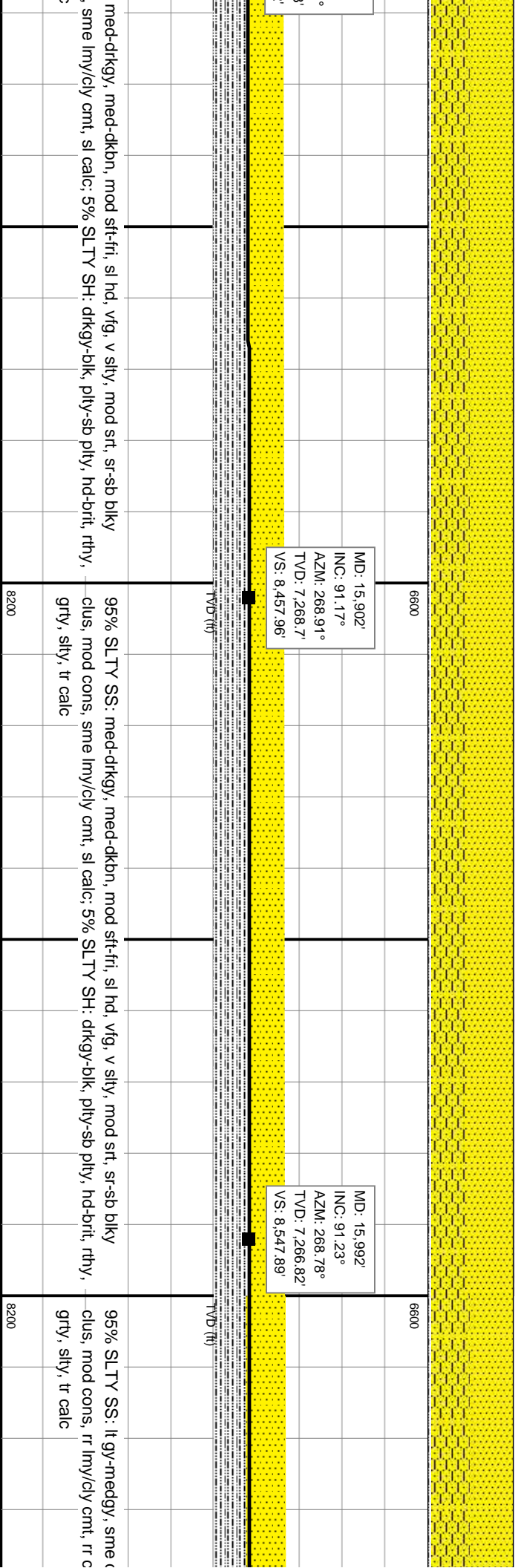
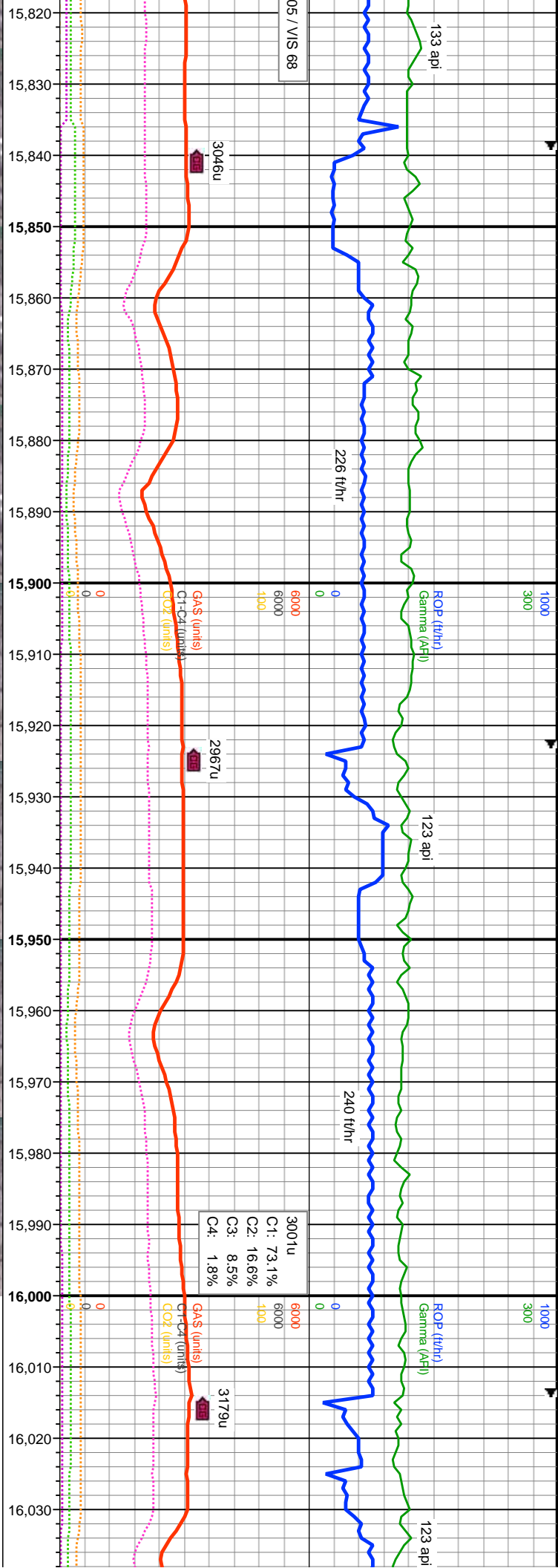
80% LS: medbn, sme lbn, rr crm, mod frm-hd, sb blk, wxy, micxn tex, v calc, 10% SLTY SH: drkgy-blk, plty-sb plty, hd-brt, rthy, grfy, slty, tr calc, 10% SLTY SS: med-dkgy, med-dkbn, mod sft-frt, sl hd, vfg, v slty, mod srt, sr-sb blk, mod cons, sme lmy/cly cmt, mod calc

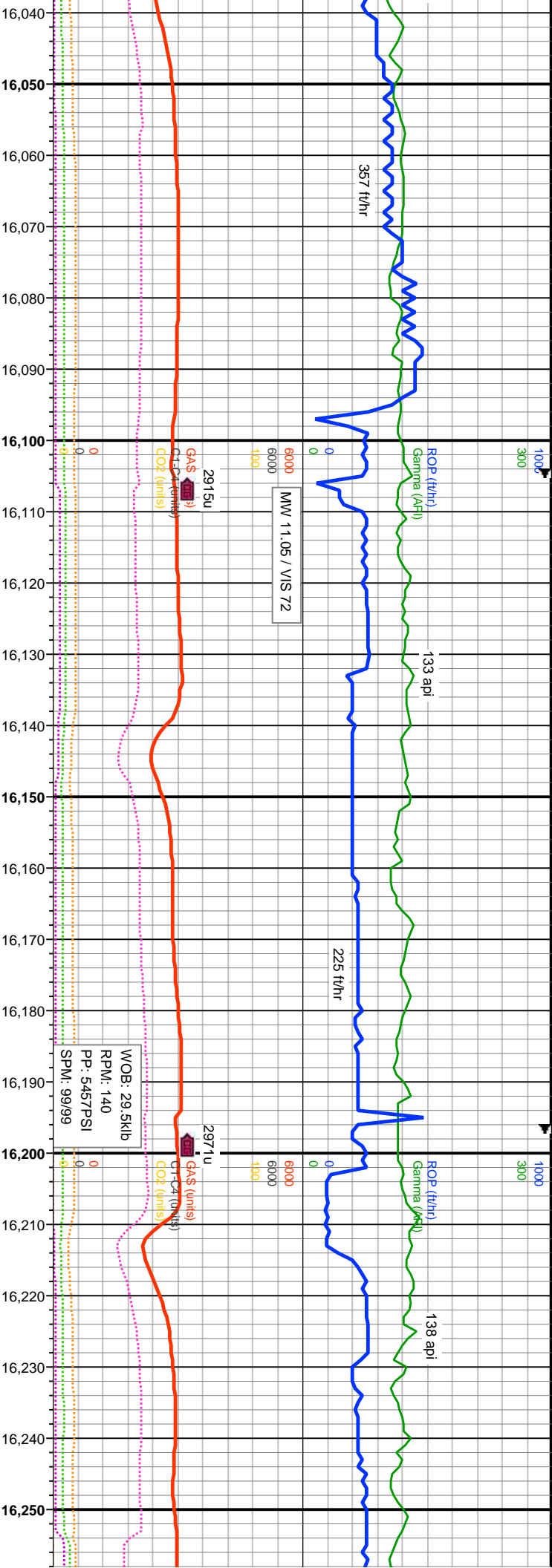








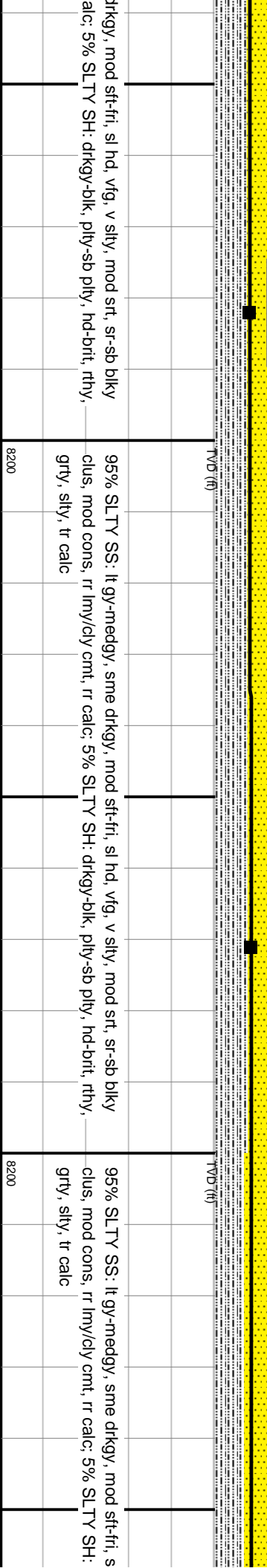


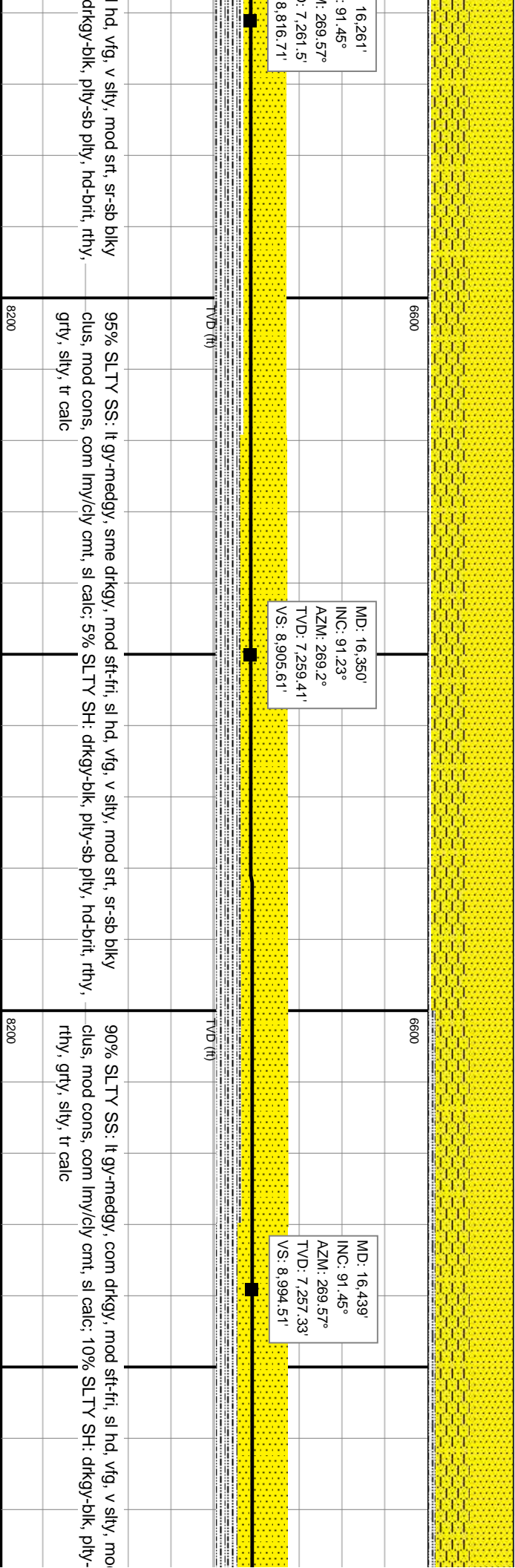
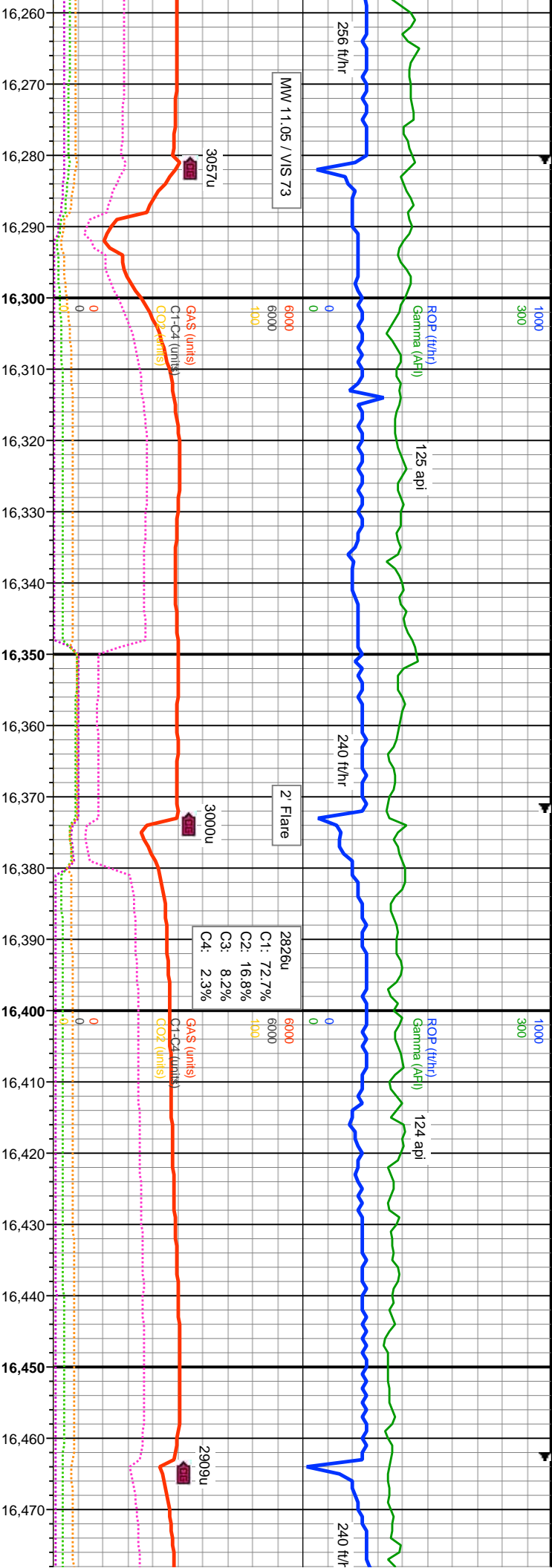


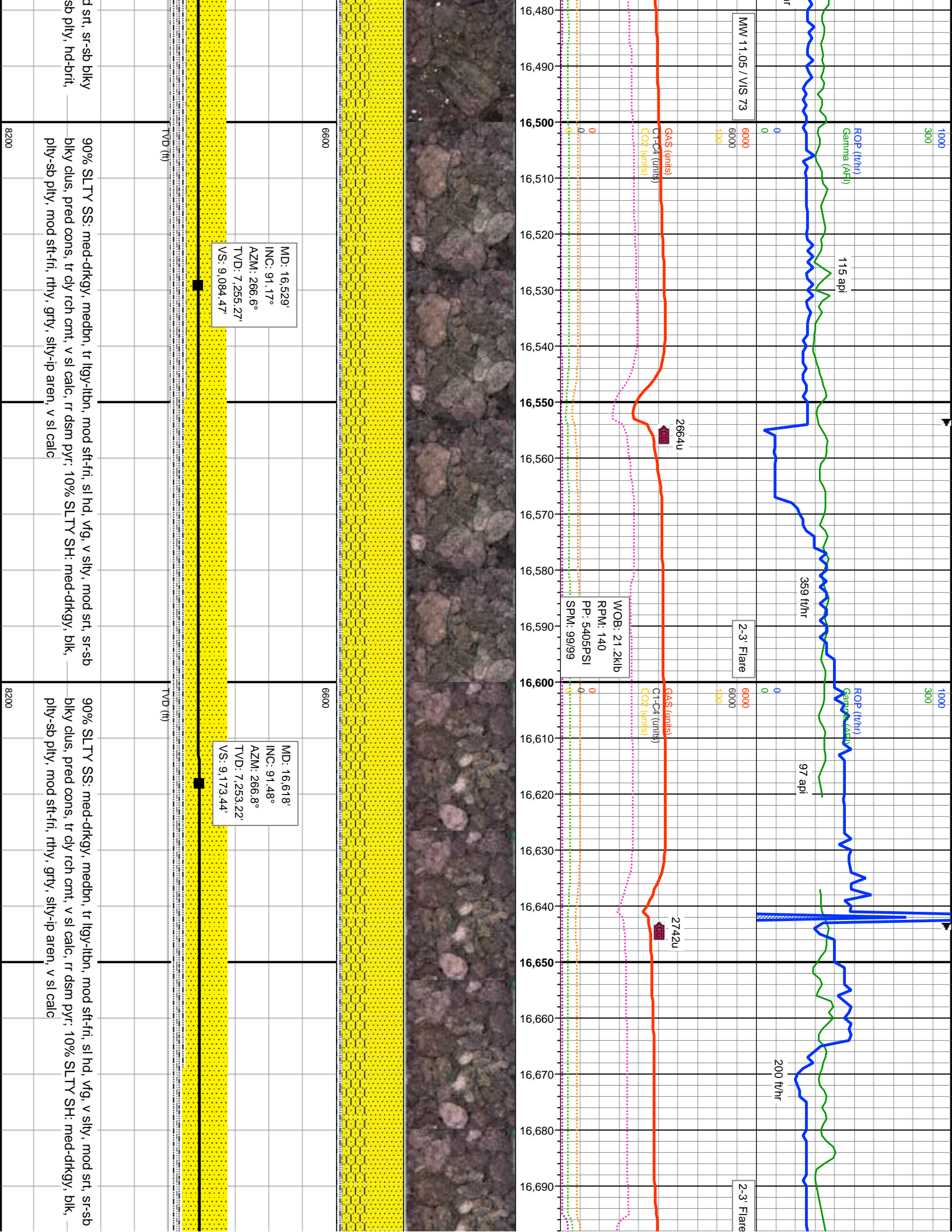
MID: 16.082'
 INC: 91.14°
 AZM: 268.61°
 TVD: 7.264.96'
 VS: 8.637.84'

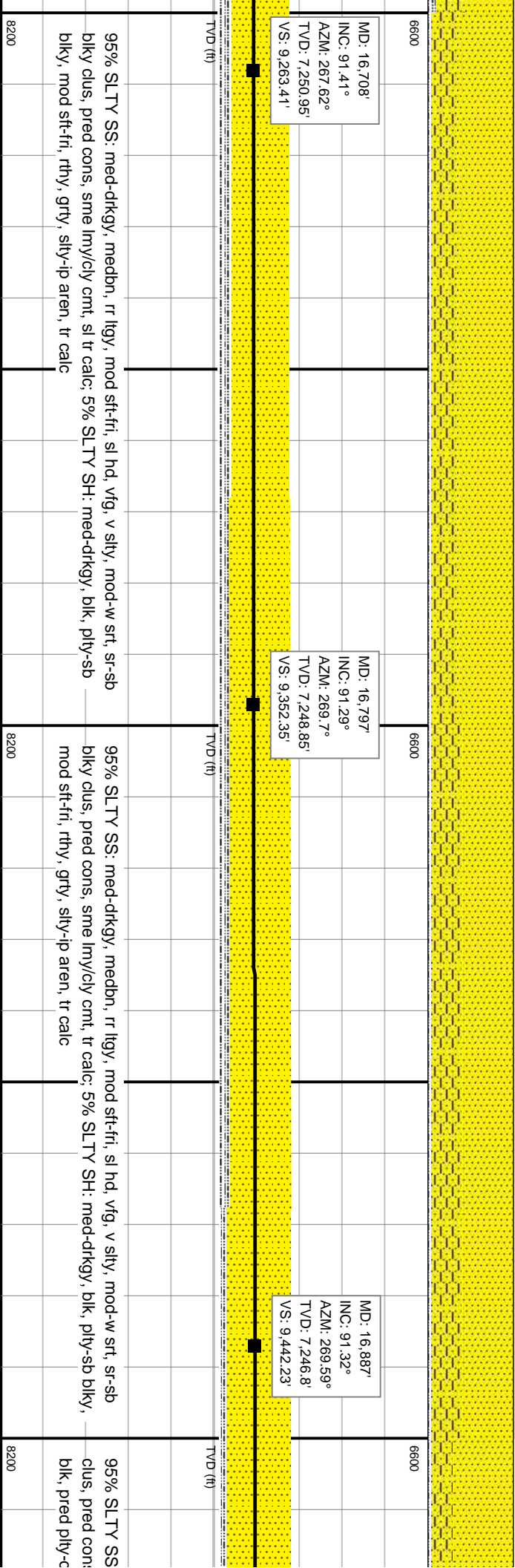
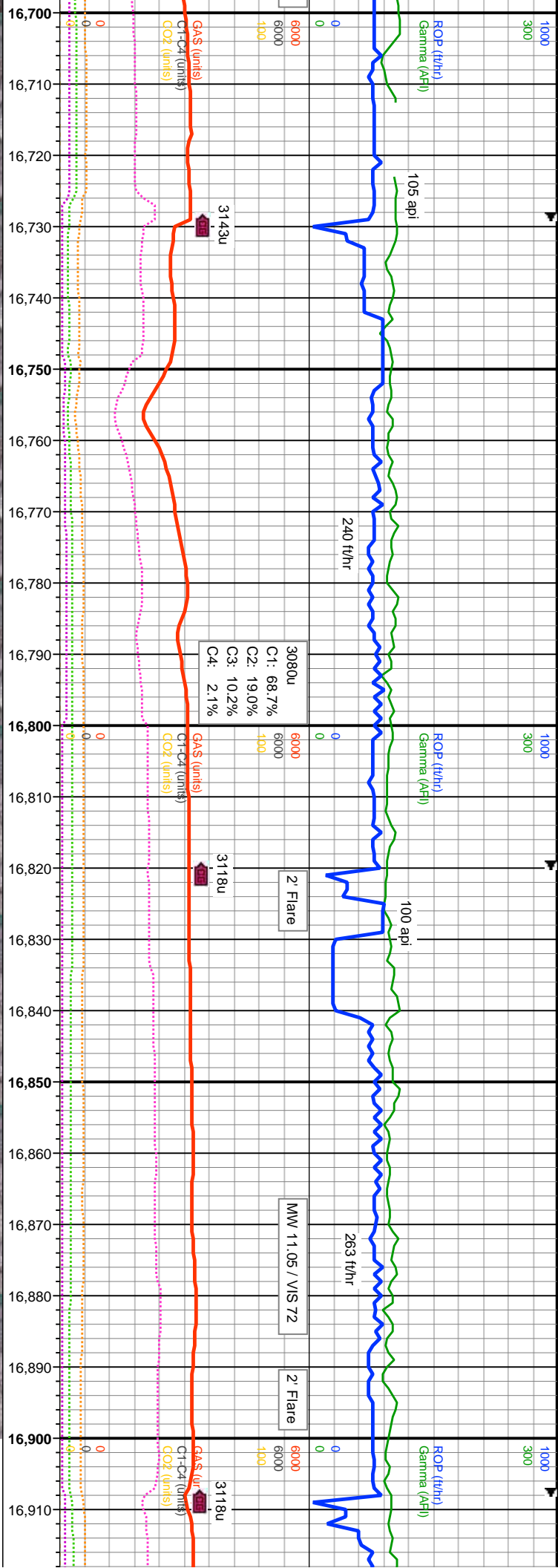
MID: 16.171'
 INC: 90.92°
 AZM: 268.74°
 TVD: 7.263.36'
 VS: 8.726.79'

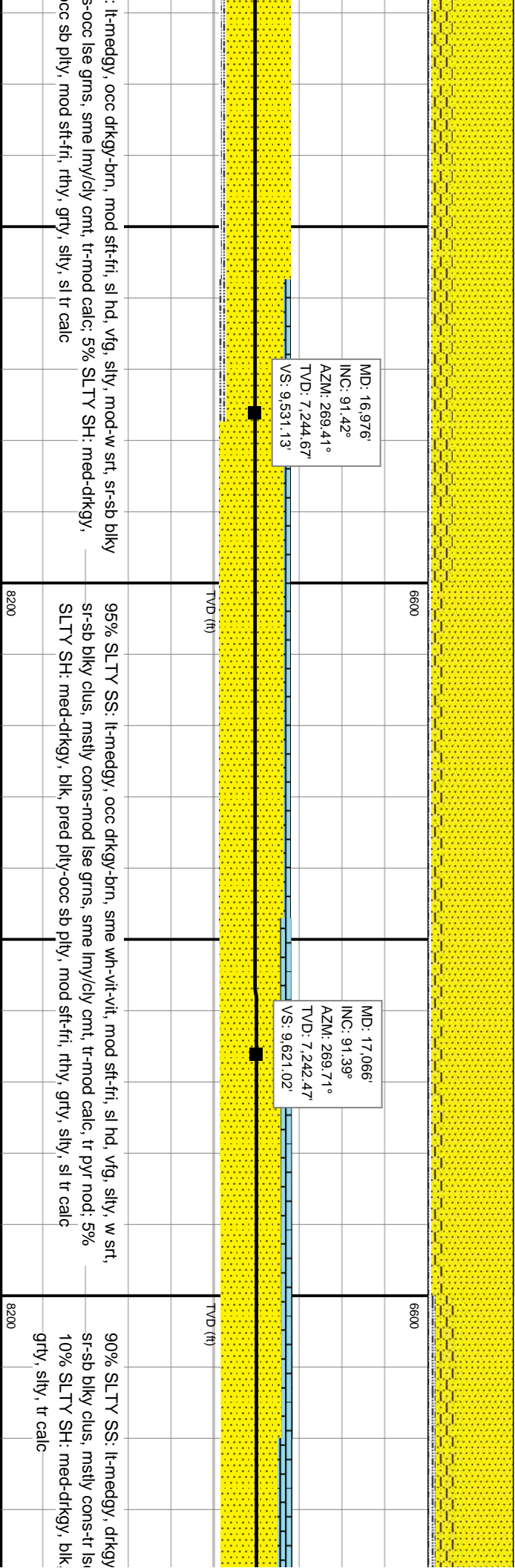
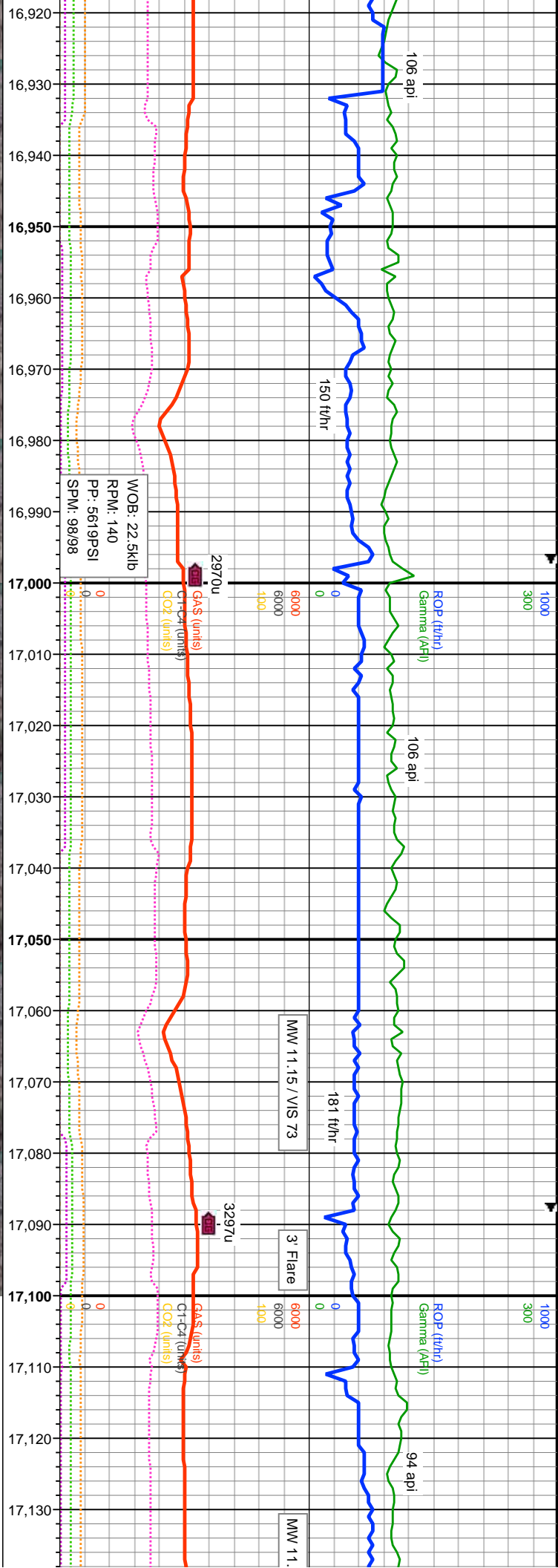
MID:
 INC:
 AZM:
 TVD:
 VS:

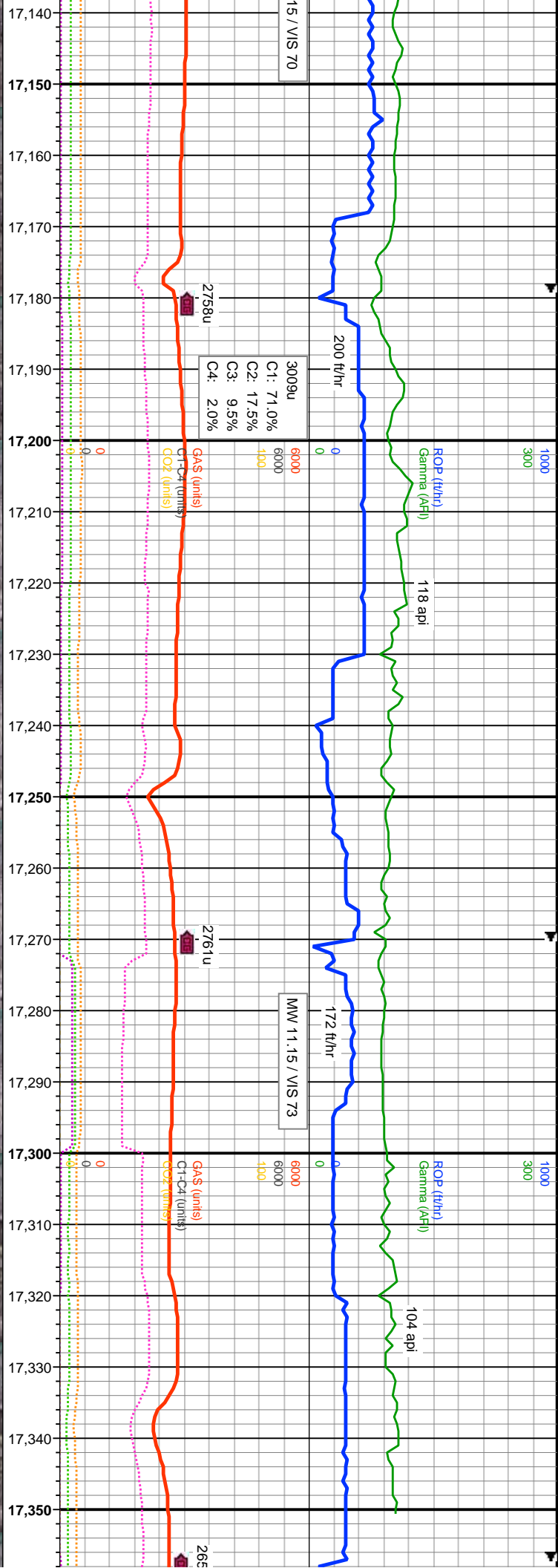








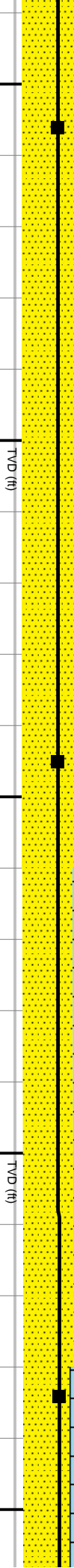




MD: 17,156'
 INC: 91.26°
 AZM: 267.36°
 TVD: 7,240.38'
 VS: 9,710.96'

MD: 17,245'
 INC: 91.35°
 AZM: 266.08°
 TVD: 7,238.36'
 VS: 9,799.93'

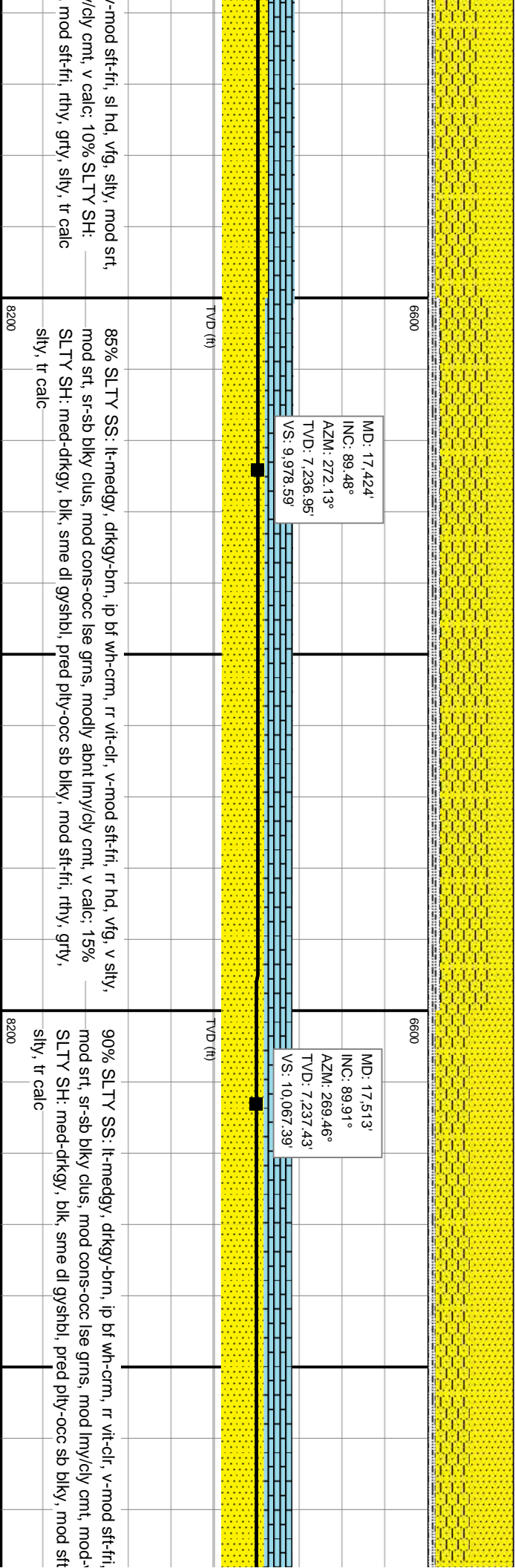
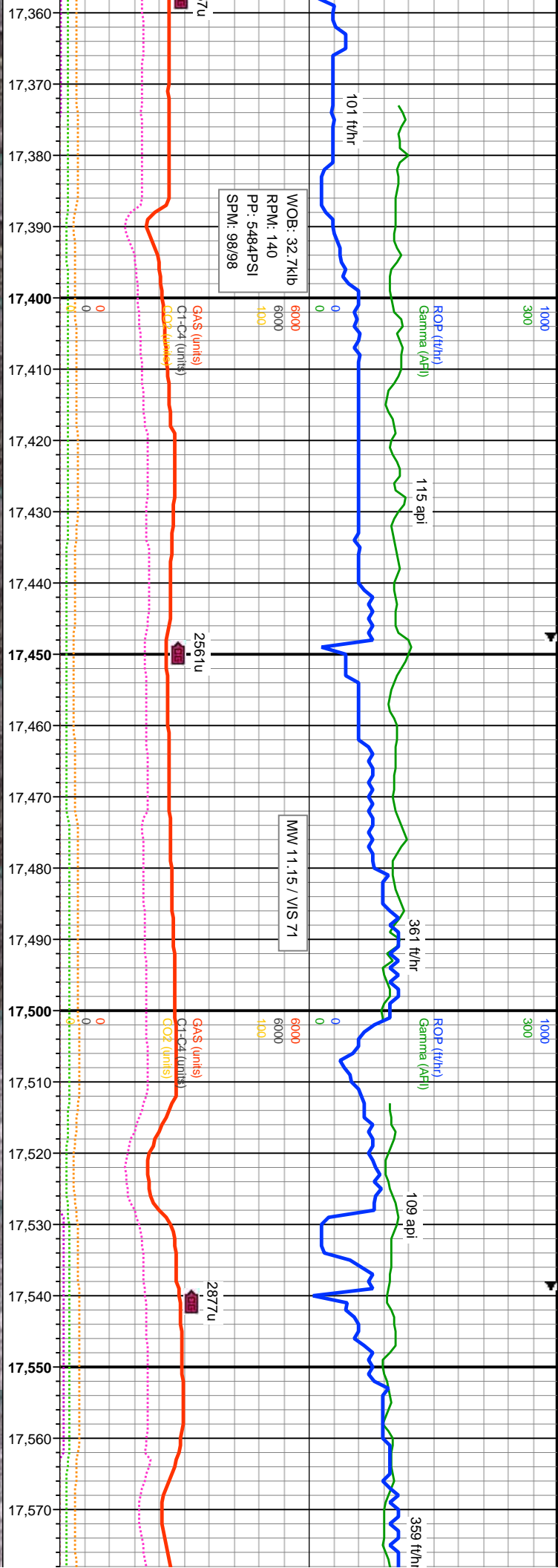
MD: 17,334'
 INC: 90.49°
 AZM: 270.94°
 TVD: 7,236.93'
 VS: 9,888.86'

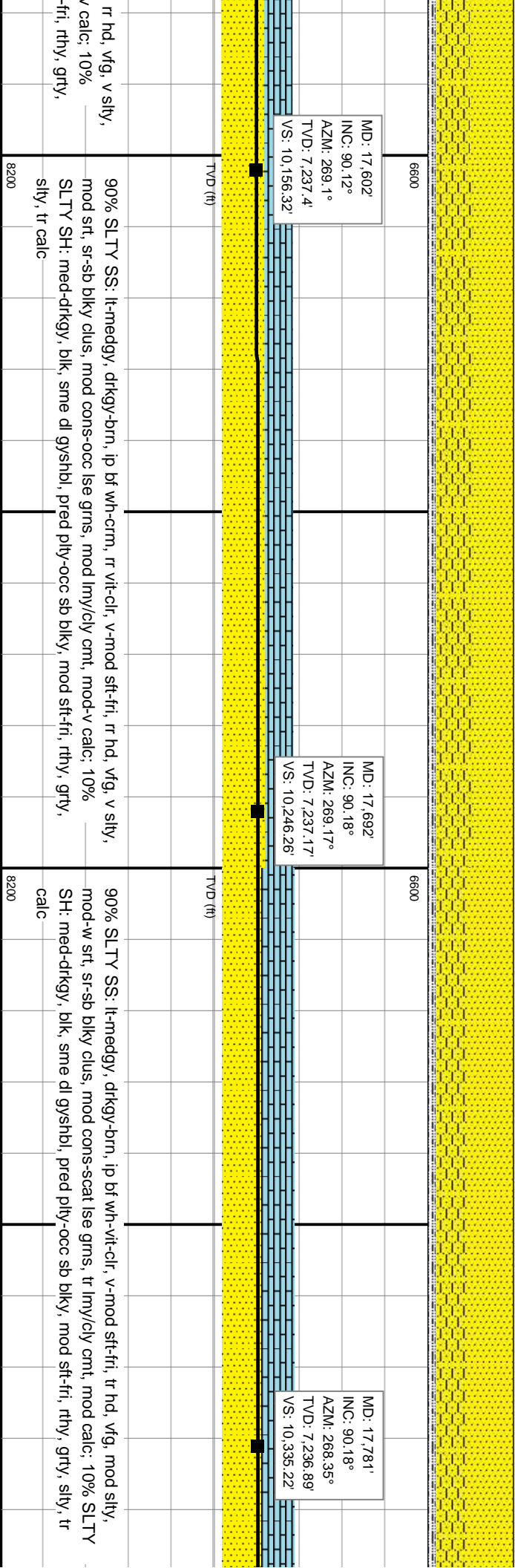
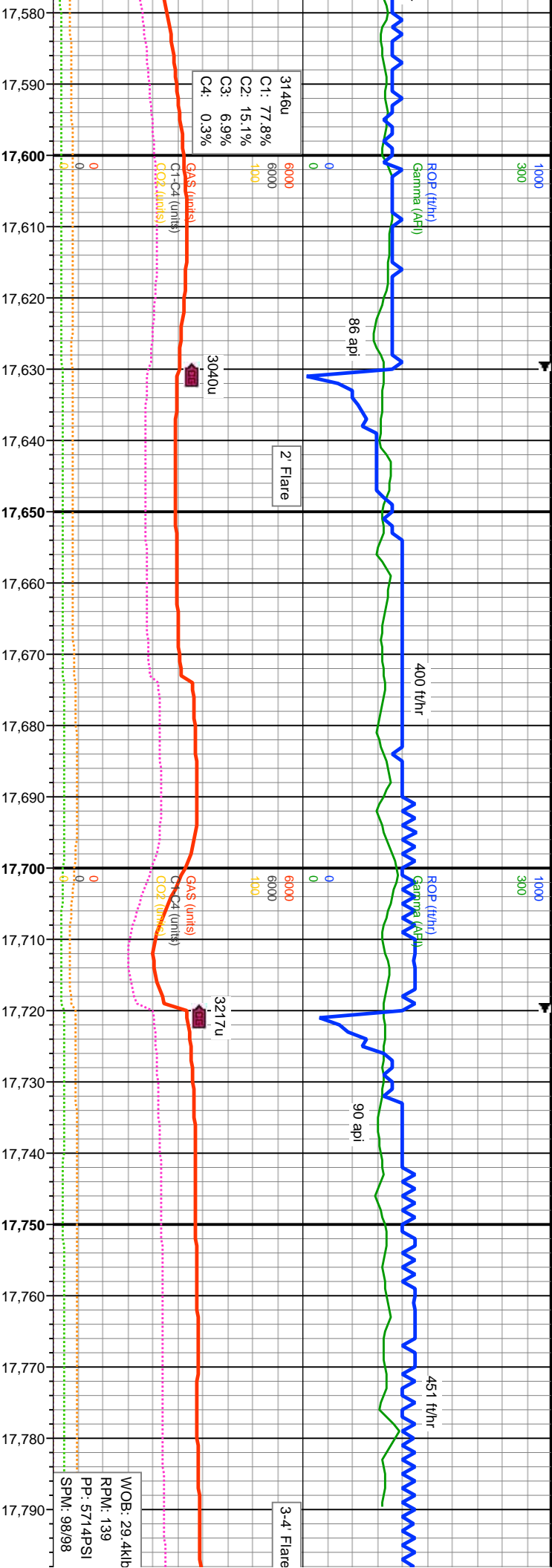


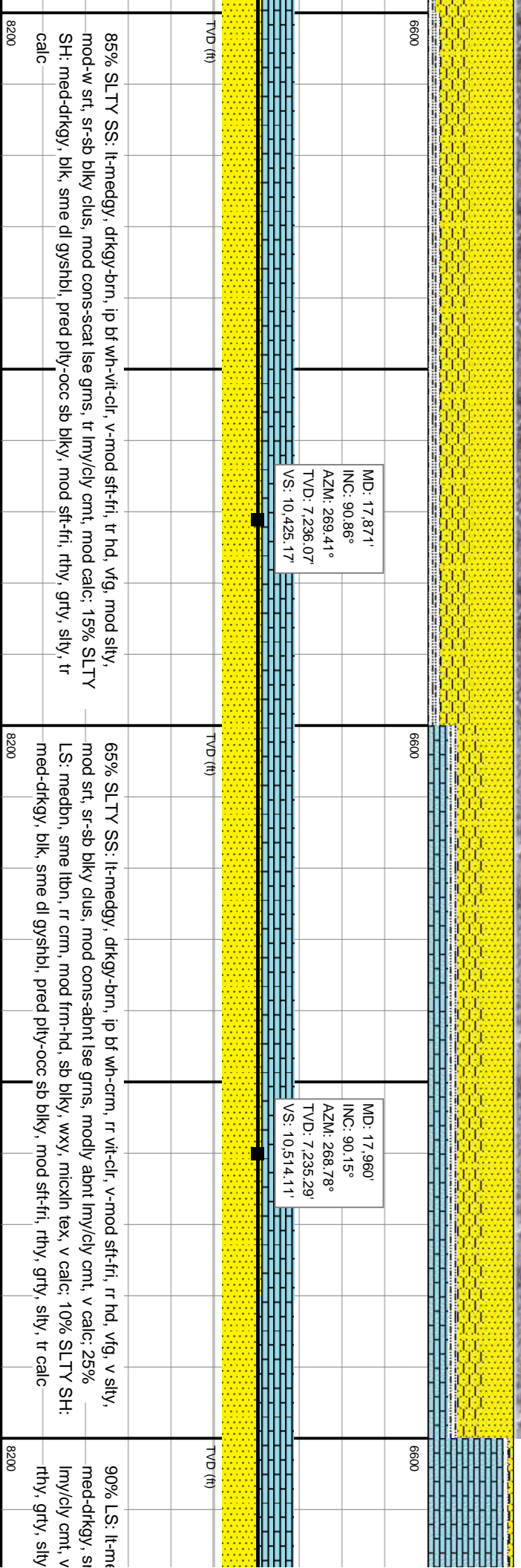
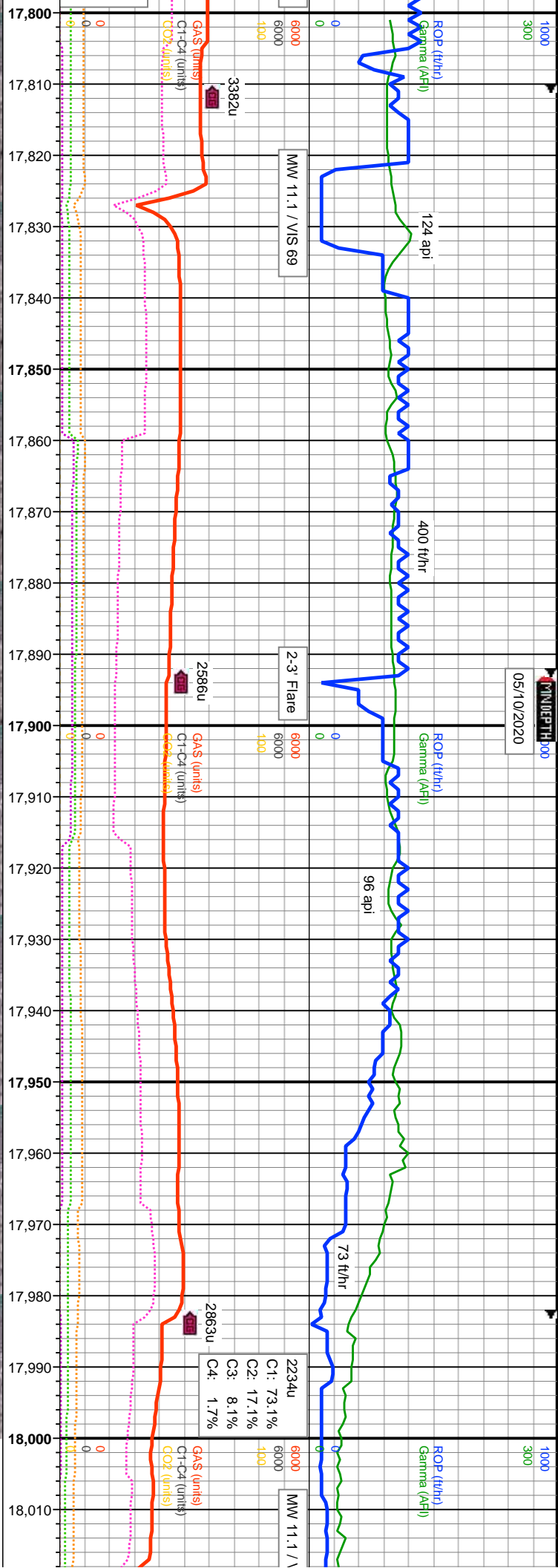
90% SLTY SS: lt-medgy, drkgy-brn, ip bf wh-vit-clr, v-mod sft-fri, sl hd, vfg, silty, w srt, sr-sb blkly clus, mod cons-abnt ise grms, modly abnt lmy/clly cmt, mod-v-calc, rr qtz; 10% SLTY SH: med-drkgy, blk, sme dl gysbhl, pred pty-occ sb blkly, mod sft-fri, rthy, grty, silty, tr calc

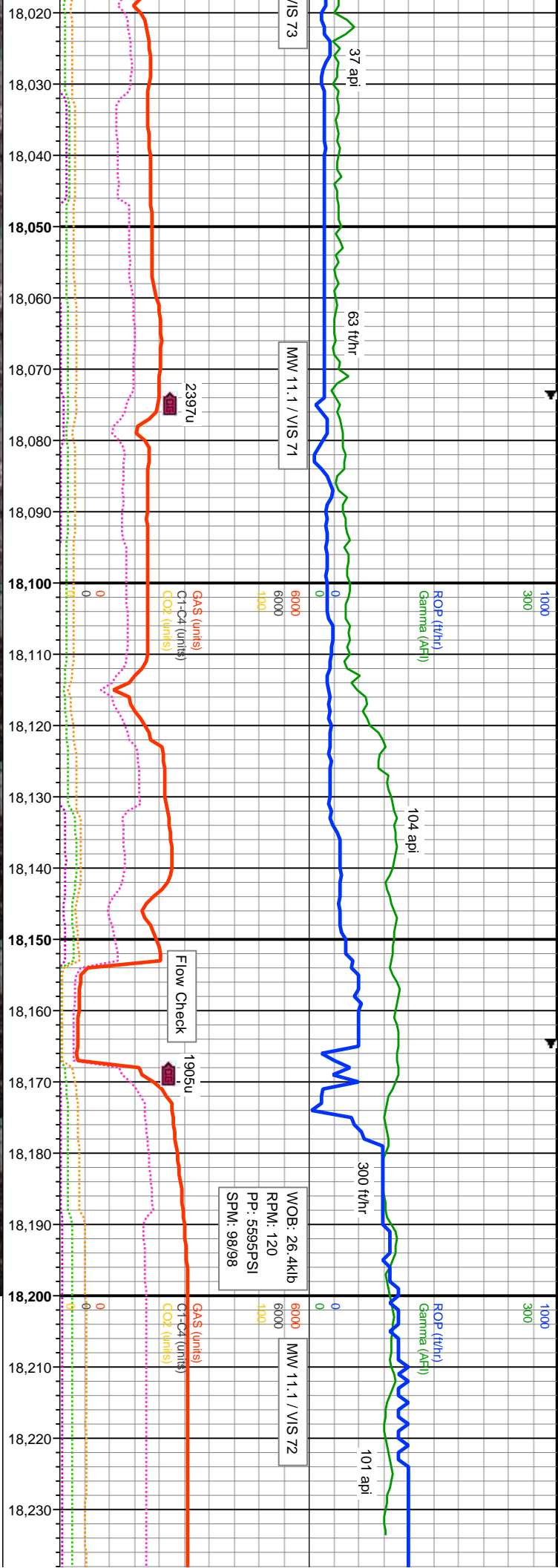
90% SLTY SS: lt-medgy, drkgy-brn, ip bf wh-vit-clr, v-mod sft-fri, sl hd, vfg, silty, w srt, sr-sb blkly clus, mod cons-abnt ise grms, modly abnt lmy/clly cmt, mod-v-calc, rr qtz; 10% SLTY SH: med-drkgy, blk, sme dl gysbhl, pred pty-occ sb blkly, mod sft-fri, rthy, grty, silty, tr calc

90% SLTY SS: lt-medgy, drkgy-brn, ip bf wh-vit-clr, v-mod sft-fri, sl hd, vfg, silty, w srt, sr-sb blkly clus, mod cons-abnt ise grms, modly abnt lmy/clly cmt, mod-v-calc, rr qtz; 10% SLTY SH: med-drkgy, blk, sme dl gysbhl, pred pty-occ sb blkly, mod sft-fri, rthy, grty, silty, tr calc









MD: 18,050'
 INC: 89.11°
 AZM: 271.44°
 TVD: 7,235.87'
 VS: 10,603.98'

MD: 18,140'
 INC: 88.49°
 AZM: 274.7°
 TVD: 7,237.75'
 VS: 10,693.45'

MD: 18,140'
 INC: 88.49°
 AZM: 274.7°
 TVD: 7,237.75'
 VS: 10,693.45'

dbn, bf-crm, mod frm-hd, sb blk, wxy, micxn tex, v calc: 5% SLTY SS: med-brn, v-mod sft-fr, tr hd, vfg, v slty, mod-w srt, sr clus, mod-w cons, tr calc: 5% SLTY SH: med-dkgy, sme dl gysbbl, pred pty, mod frm-brft, tr calc

85% LS: lt-medbn, bf-crm, mod frm-hd, sb blk, wxy, micxn tex, v calc: 10% SLTY SS: med-dkgy, sme brn, v-mod sft-fr, tr hd, vfg, v slty, mod-w srt, sr clus, mod-w cons, tr lmy/oly cmt, v calc: 5% SLTY SH: med-dkgy, sme dl gysbbl, pred pty, mod frm-brft, rthy, grty, slty, tr calc

90% SLTY SS: lt-medgy, dkgy-br mod srt, sr-sb blk clus, mod cons medbn, sme tbn, rr crn, mod frm med-dkgy, blk, sme dl gysbbl, pre

