



Scale: 5" / 100'
Measured Depth Log

Well Name Raindance FC 23-289HN

Location SECTION 30, T6N, R67W

State COLORADO

Country UNITED STATES

API Number 05123515850000

Geographic Region DJ BASIN

County WELD

Rig Number PD 462

AFE # 20DC0383

Field WATTENBERG

Ground Elevation 4788'

K.B. Elevation 4808'

Logged Interval 6000' MD To 20837' MD

Total Depth 20837' MD

Formation NIOBRARA C CHALK

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 TODD NAKATA, ZACH SOUVALL

Company TERRA GUIDANCE, LLC

Address 67 W FLOYD AVE
STE 105
ENGLEWOOD, CO 80110

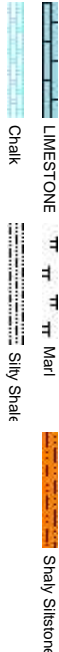


Other

MUDLOG START DATE 07/30/2021

MUDLOG END DATE 08/06/2021

Rock Types



Other Symbols

Engineering



Onsite Geological Services provided by
Terra **Guidance**

Loggers on Location: 07/30/2021

Logging Depth Reached:

15:18 MT, 07/30/2021

Bloodhound Unit: #5925

Sample Collection/Description Interval:

Curve 50'

Tangent/Lateral 100'

ROP SCALE (FT/HR): 0-1000

GAMMA SCALE (API): 0-300

GAS SCALE 0-2000u

Total Gas & Chromatograph

GAS

C1

C2

C3

C4

CO2

Depth

Images

% Lithology

TVD SCALE: 5500'-8500'

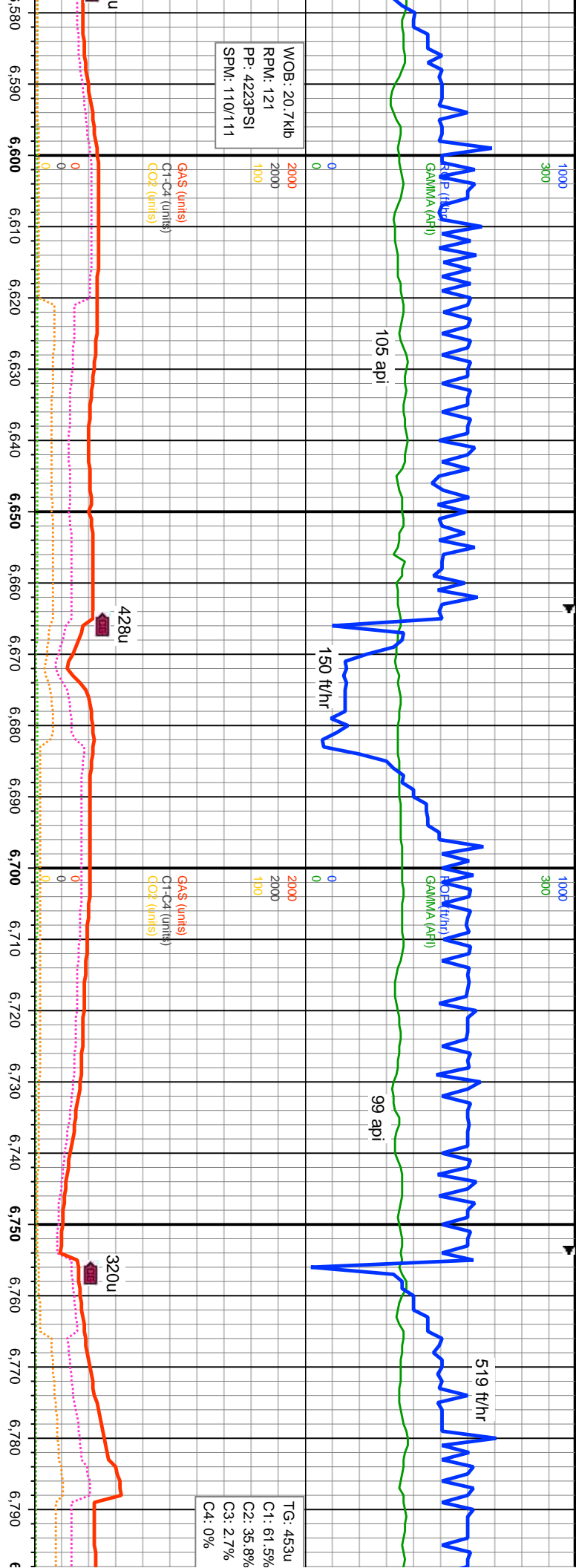
Well Bore
TVD

Bit #: 1
Size: 8.5"
Make: SMITH
Model: PDC
Jets: 7x10
S/N: JV4809
Depth In: 2,069'

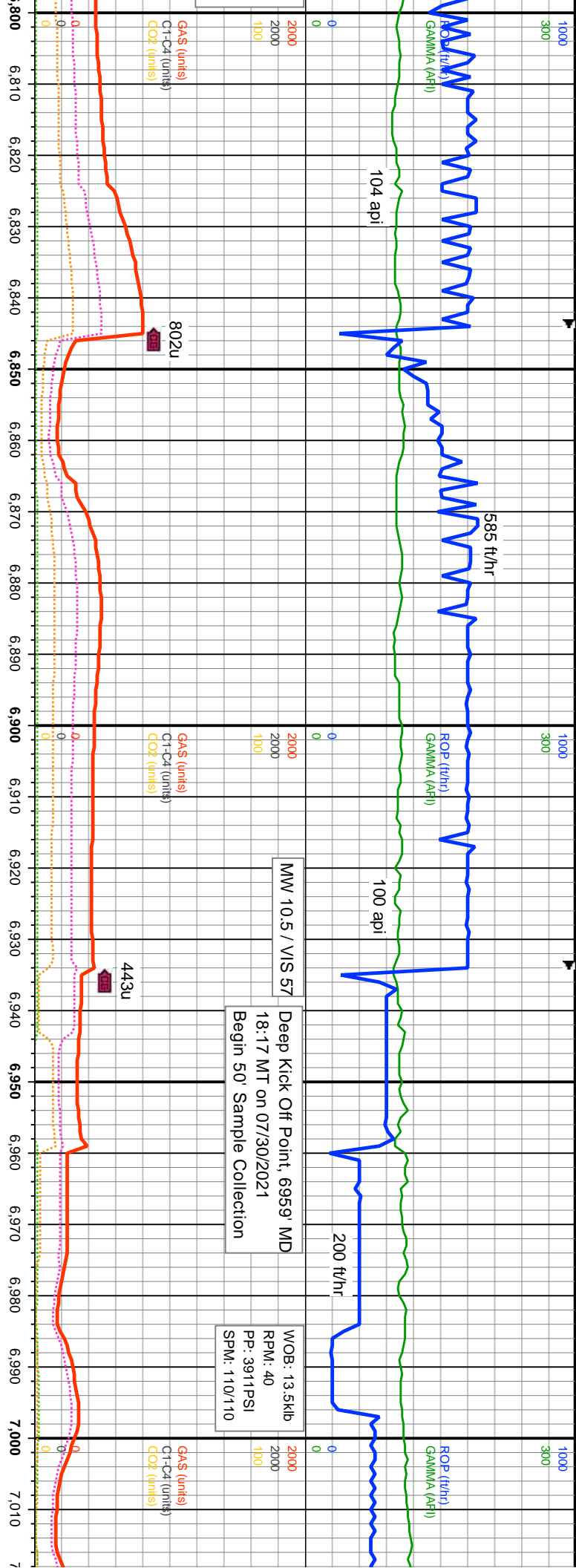
MD: 6.085°
INC: 39.93°
AZM: 27.32°
TVD: 5,690.42'
VS: -360.48'

100% SHY SLTST: lt-med gy, sb blk-y-sb pily, mod st-fri, arg, silty, rthy, grgd to
vf slst ip, sl calc cnt, sl calc

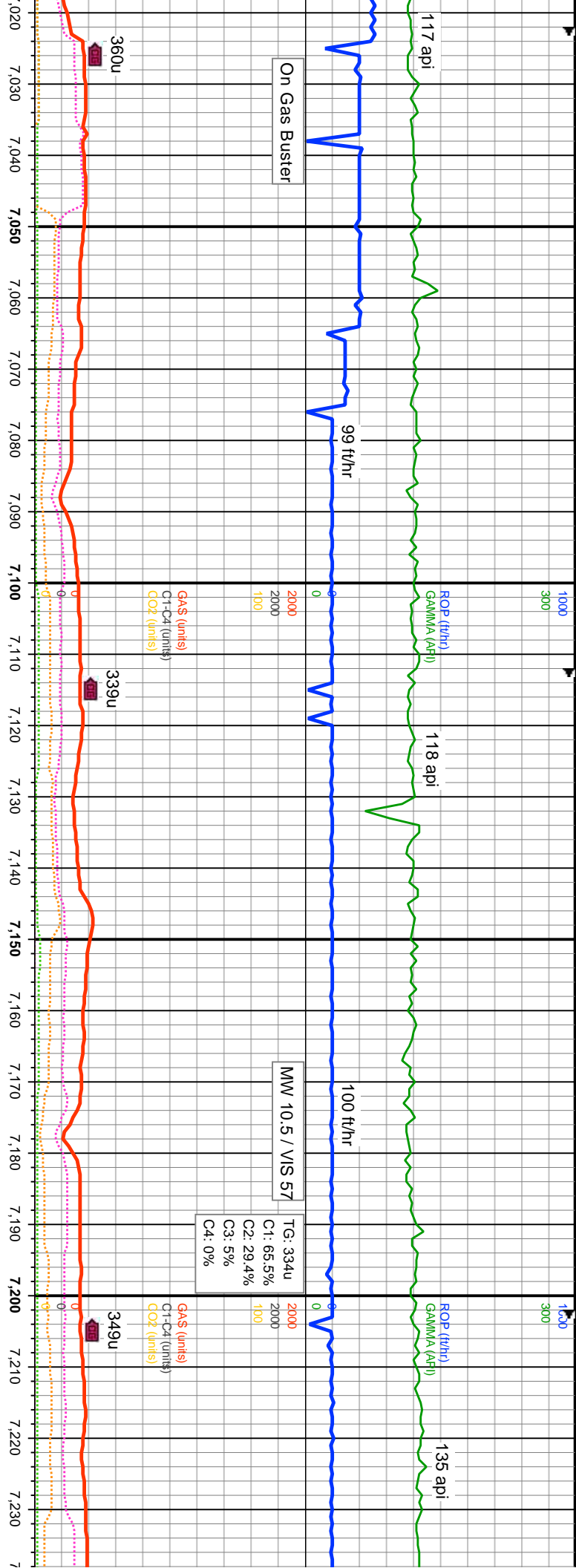
100% SHY SLTST: lt-med
silty, rthy, grgd to vf slst ip



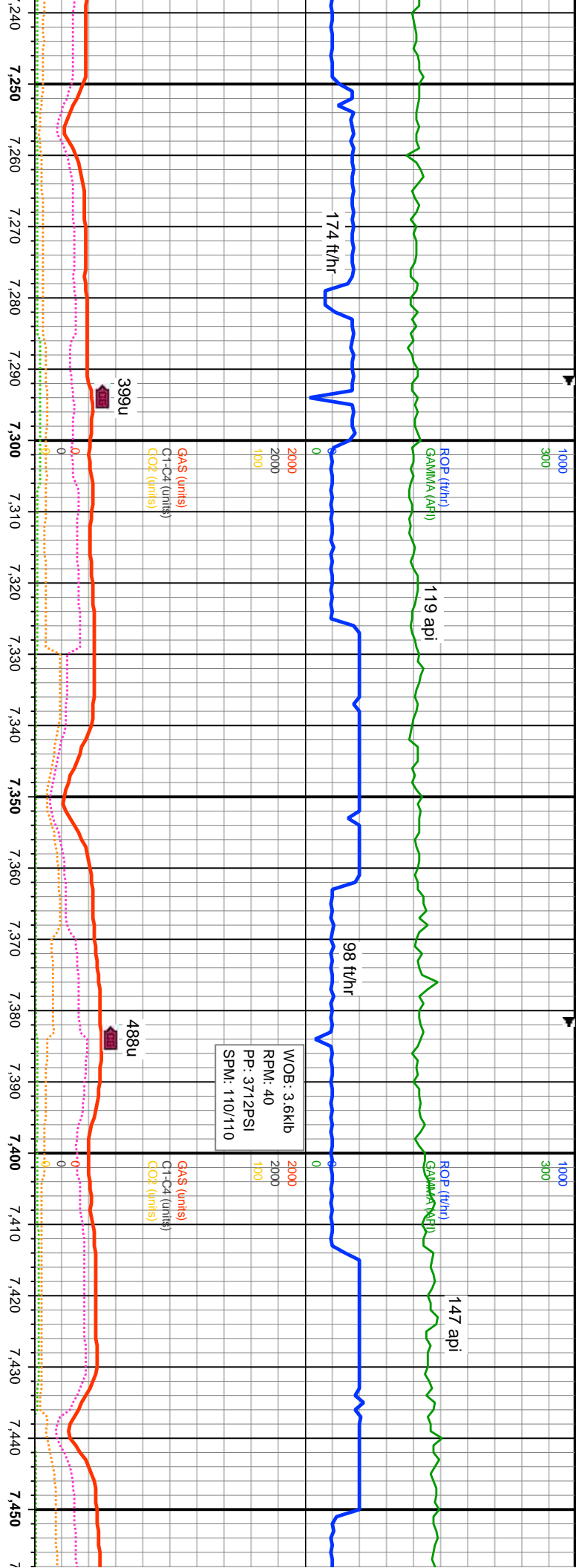
arg, stly, rthy,		100% SHY SLTST: lt-med gy, lt brn ip, sb blk-y-sb pty, mod sft-fri, arg, stly, rthy,		100% SHY SLTST: lt-med gy, lt brn ip, sb blk-y-sb pty, mod sft-fri, arg, stly, rthy,	
grdg to vf silst ip, sl calc cmt, sl calc		grdg to vf silst ip, sl calc cmt, sl calc		grdg to vf silst ip, sl calc cmt, sl calc	
5500		5500		5500	
MD: 6,623' INC: 40.14° AZM: 26.76° TVD: 6,104.07' VS: -463.49'		MD: 6,713' INC: 39.53° AZM: 26.82° TVD: 6,173.19' VS: -480.28'		MD: 6,713' INC: 39.53° AZM: 26.82° TVD: 6,173.19' VS: -480.28'	
TVD (ft)		TVD (ft)		TVD (ft)	
8500		8500		8500	



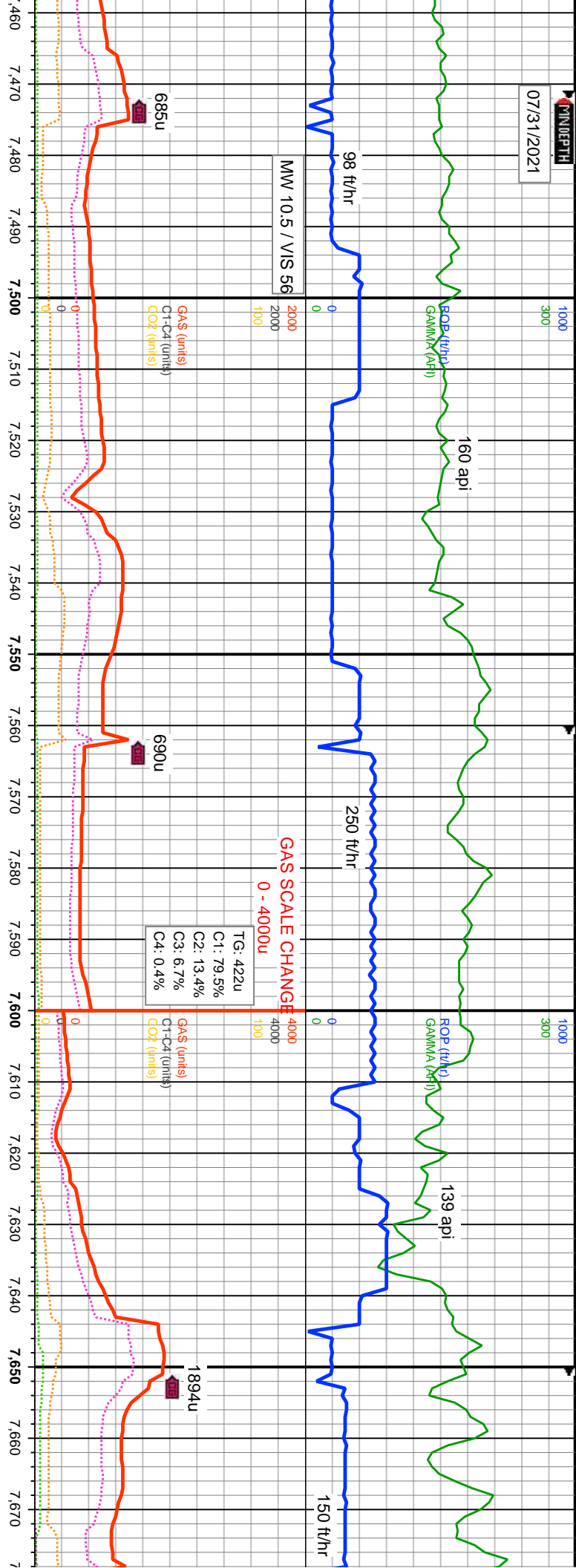
<p>100% SHY SLTST: lt-med gy, lt brn ip, sb blk-y-sb pty, mod sft-fri, arg, slty, rthy, grdg to vf silst ip, sl calc cmt, sl calc; TR SL TY SH</p> <p>D: 6.803' C: 40.12° M: 25.27° D: 6.242.31' S: -496.35'</p> <p>MD: 6.892' INC: 39.13° AZM: 24.31° TVD: 6.310.86' VS: -510.99'</p>	<p>90% SHY SLTST: lt-med gy, lt brn ip, sb blk-y-sb pty, mod sft-fri, arg, slty, rthy, grdg to vf silst ip, sl calc cmt, sl calc; 10% SL TY SH: med-dkgy, dk gysbhn, mod sft-sl frm, ip brt, sb blk-y-ang, rr pty, com fis, slty, arg, v sl calc</p> <p>D: 6.892' C: 40.37° M: 19.62° D: 6.380.07' VS: -523.03'</p>	<p>85% SHY SLTS blk-y-sb pty, mo to vf silst ip, sl c SH: med-dkgy, ' ip brt, sb blk-y-a v sl calc</p>
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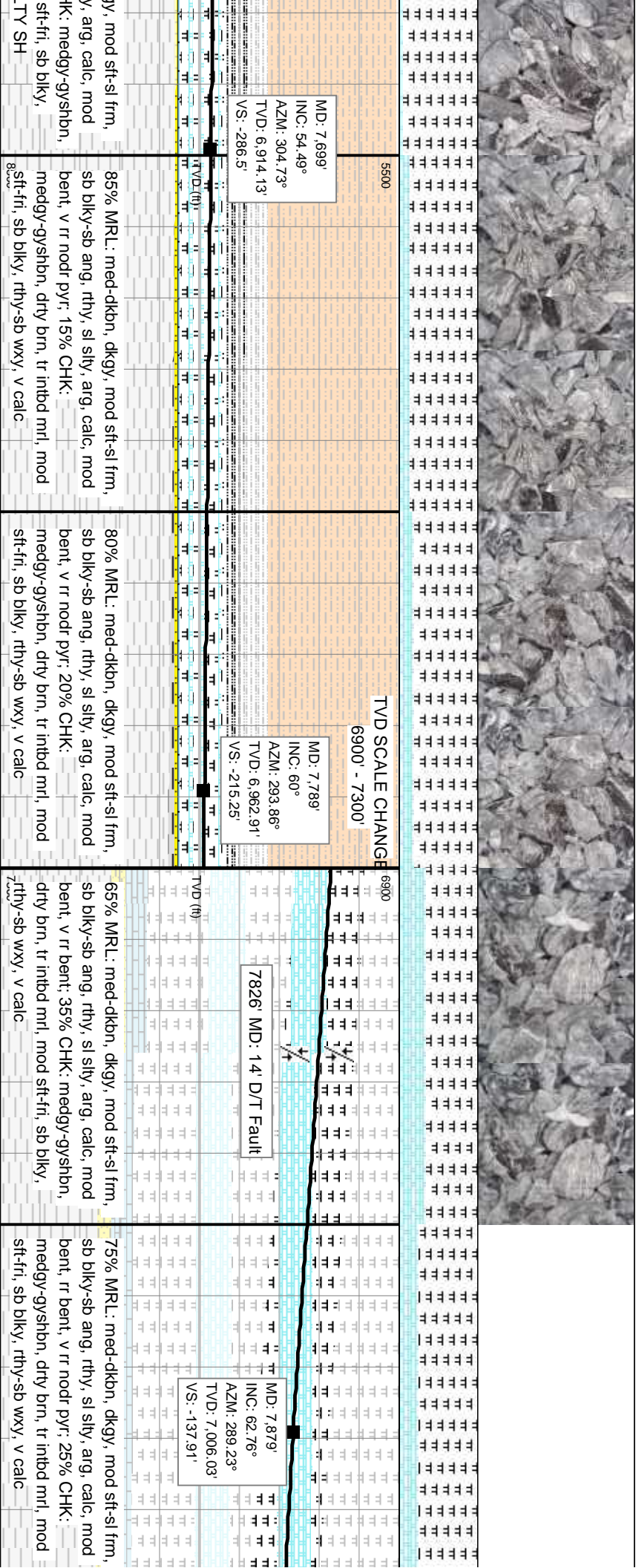
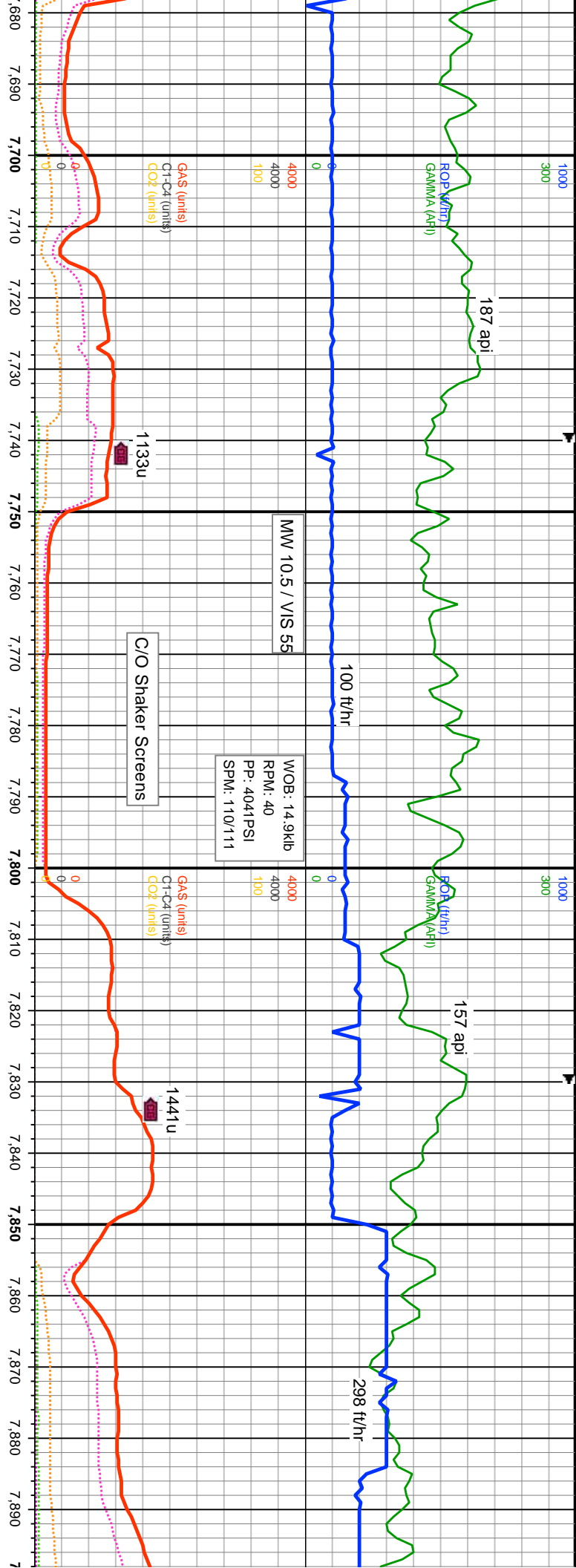
T: lt-med gy, lt brn ip, sb blk-y-sb pily, mod sft-frt, arg, silty, rthy, grdg alc cmt, sl calc; 15% SLTY dk gysbhn, mod sft-sl frm, ng, rr pily, com fis, silty, arg,		75% SHY SLTST: lt-med gy, lt brn ip, sb blk-y-sb pily, mod sft-frt, arg, silty, rthy, grdg to vf slst ip, sl calc cmt, sl calc; 15% SLTY SH: med-dkg, dk gysbhn, mod sft-sl frm, ip brit, sb blk-y-ang, rr pily, com fis, silty, arg, v sl calc		65% SHY SLTST: lt-med gy, lt brn ip, sb blk-y-sb pily, mod sft-frt, arg, silty, rthy, grdg to vf slst ip, sl calc cmt, sl calc; 35% SLTY SH: med-dkg, dk gysbhn, mod sft-sl frm, ip brit, sb blk-y-ang, rr pily, com fis, silty, arg, v sl calc		60% SHY SLTST: lt-med gy, lt brn ip, sb blk-y-sb pily, mod sft-frt, arg, silty, rthy, grdg to vf slst ip, sl calc cmt, sl calc; 40% SLTY SH: med-dkg, dk gysbhn, mod sft-sl frm, ip brit, sb blk-y-ang, rr pily, com fis, silty, arg, v sl calc		50% SLTY SH: med-dkg, dk gysbhn, mod sft-sl frm, ip brit, sb blk-y-ang, rr pily, com fis, silty, rthy, grdg to vf slst cmt, sl calc	
		MD: 7.072' INC: 37.08° AZM: 15.97° TVD: 6,450.28' VS: -530.87'		MD: 7.162' INC: 37.53° AZM: 354.96° TVD: 6,522.16' VS: -526.69'					
		5500		5500		5500		5500	
		TVD (ft)		TVD (ft)		TVD (ft)		TVD (ft)	

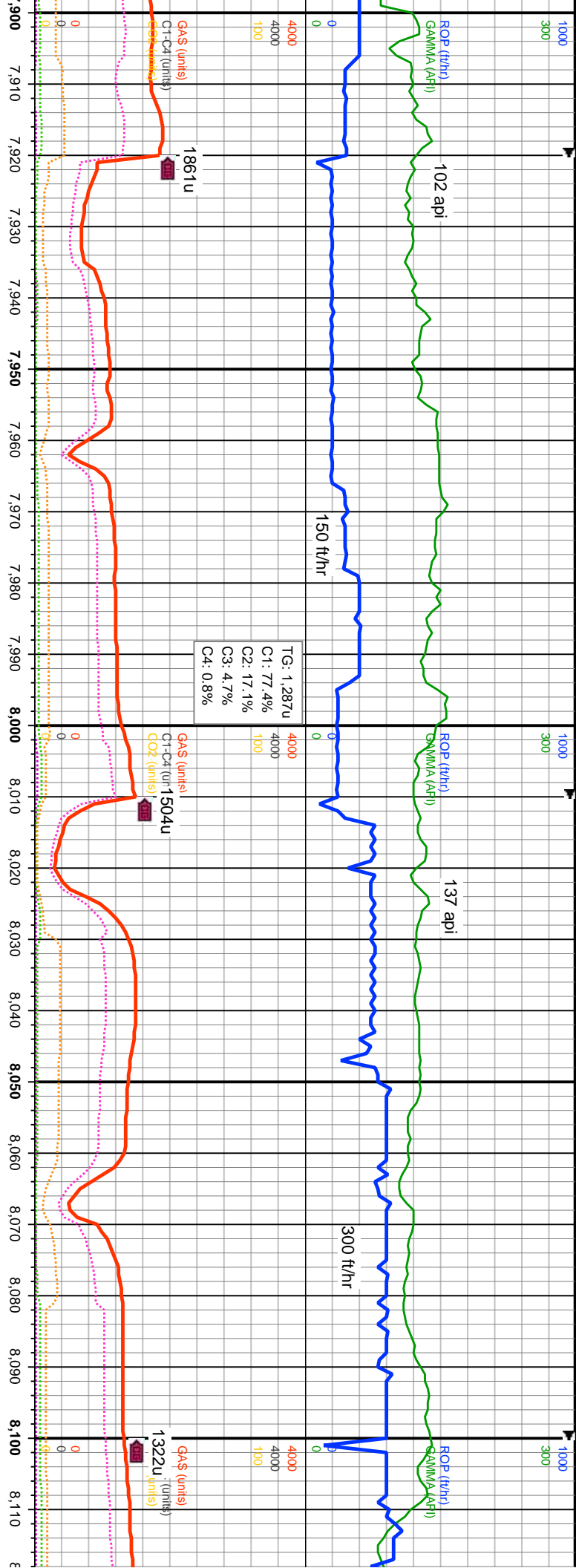


<div>MD: 7.251' INC: 38.13° AZM: 340.73° TVD: 6,592.59' VS: -506.32'</div>	<div>MD: 7.341' INC: 39.15° AZM: 339.06° TVD: 6,662.89' VS: -478.25'</div>	<div>MD: 7.431' INC: 41.02° AZM: 328.25° TVD: 6,731.83' VS: -444.05'</div>
<div>60% SLTY SH: med-dkgy, dk gyshbn, mod sft-sl frm, ip brit, sb blk-y-ang, rr pily, com fis, silty, arg, v sl calc; 40% SHY SLTST: lt-med gy, lt brn ip, sb blk-y-sb pily, mod sft-fri, arg, silty, rthy, grdg to vf slst ip, sl calc cmnt, sl calc</div>	<div>75% SLTY SH: med-dkgy, dk gyshbn, mod sft-sl frm, ip brit, sb blk-y-ang, rr pily, com fis, silty, arg, v sl calc; 25% SHY SLTST: lt-med gy, lt brn ip, sb blk-y-sb pily, mod sft-fri, arg, silty, rthy, grdg to vf slst ip, sl calc cmnt, sl calc</div>	<div>85% SLTY SH: med-dkgy, dk gyshbn, mod sft-sl frm, ip brit, sb blk-y-ang, rr pily, com fis, silty, arg, v sl calc; 15% SHY SLTST: lt-med gy, lt brn ip, sb blk-y-sb pily, mod sft-fri, arg, silty, rthy, grdg to vf slst ip, sl calc cmnt, sl calc</div>



SLTY SH: med-dkgy, dk gysbhn, ft-sl frm, ip brt, sb bky-ang, rr ply, s, sly, arg, v sl calc; TR SHY SLTST	100% SLTY SH: med-dkgy, dk gysbhn, mod sft-sl frm, ip brt, sb bky-ang, rr ply, com fis, sly, arg, v sl calc	80% SLTY SH: med-dkgy, dk gysbhn, mod sft-sl frm, ip brt, sb bky-ang, rr ply, com fis, sly, arg, v sl calc; 20% MRL: med-dkbn, dkgy, mod sft-sl frm, sb bky-sb ang, rthy, sl sly, arg, calc, mod bent, tr mod pyr;	80% MRL: med-dkbn, dkgy, mod sft-sl frm, sb bky-sb ang, rthy, sl sly, arg, calc, mod bent, v rr nodr pyr; 20% SLTY SH: med-dkgy, dk gysbhn, mod sft-sl frm, ip brt, sb bky-ang, rr ply, com fis, sly, arg, v sl calc; TR CHK	95% MRL: med-dkbn, dkgy, mod sft-sl frm, sb bky-sb ang, rthy, sl sly, arg, calc, mod bent, v rr nodr pyr; 5% Ch dry brn, tr intbd mtl, mod rthy-sb wxy, v calc; TR SL
MD: 7.520' INC: 43.93° AZM: 319.05° TVD: 6,797.53' VS: -400.69	MD: 7.609' INC: 49.41° AZM: 313.05° TVD: 6,858.61' VS: -348.43			

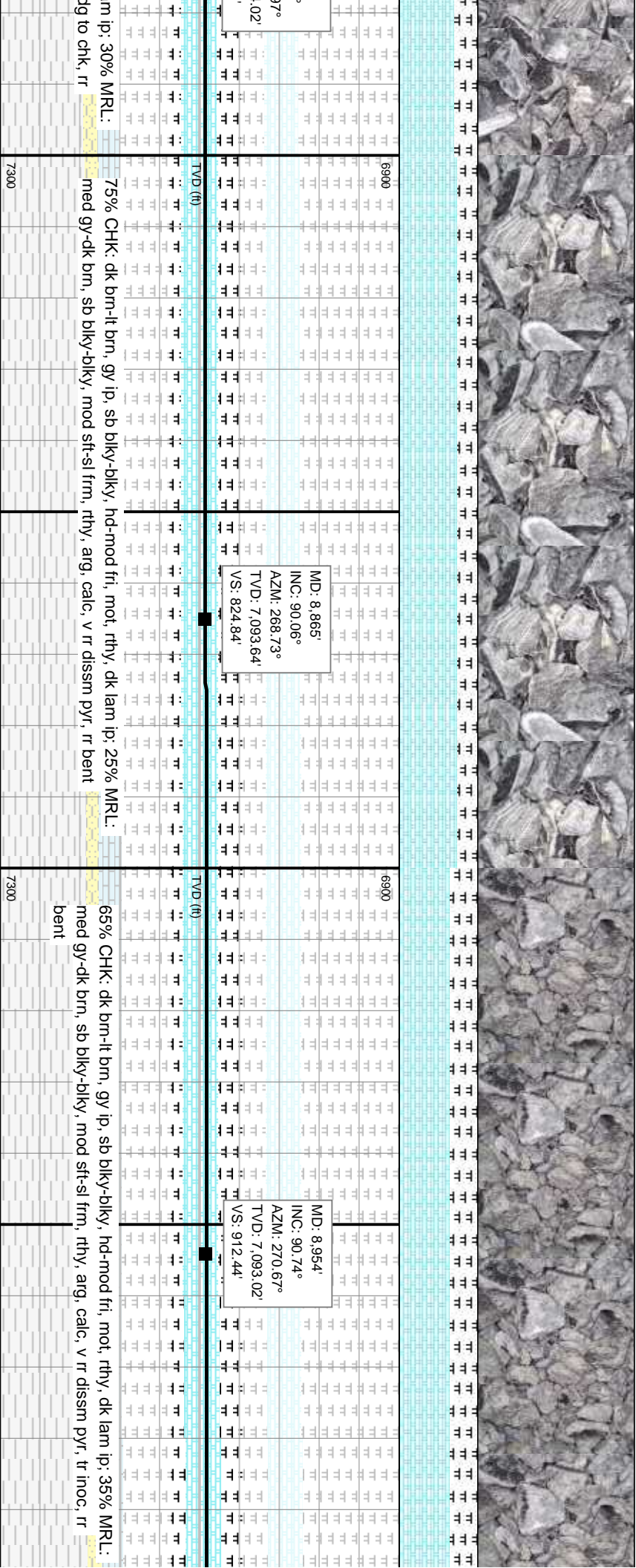
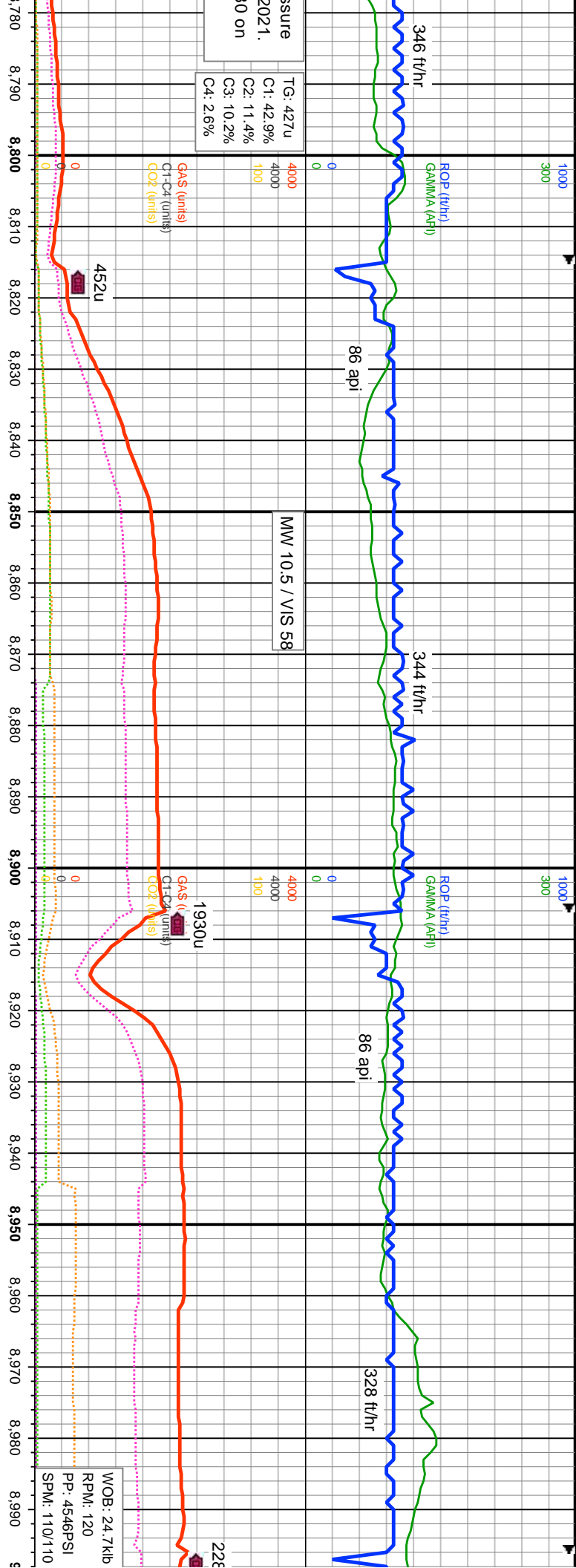


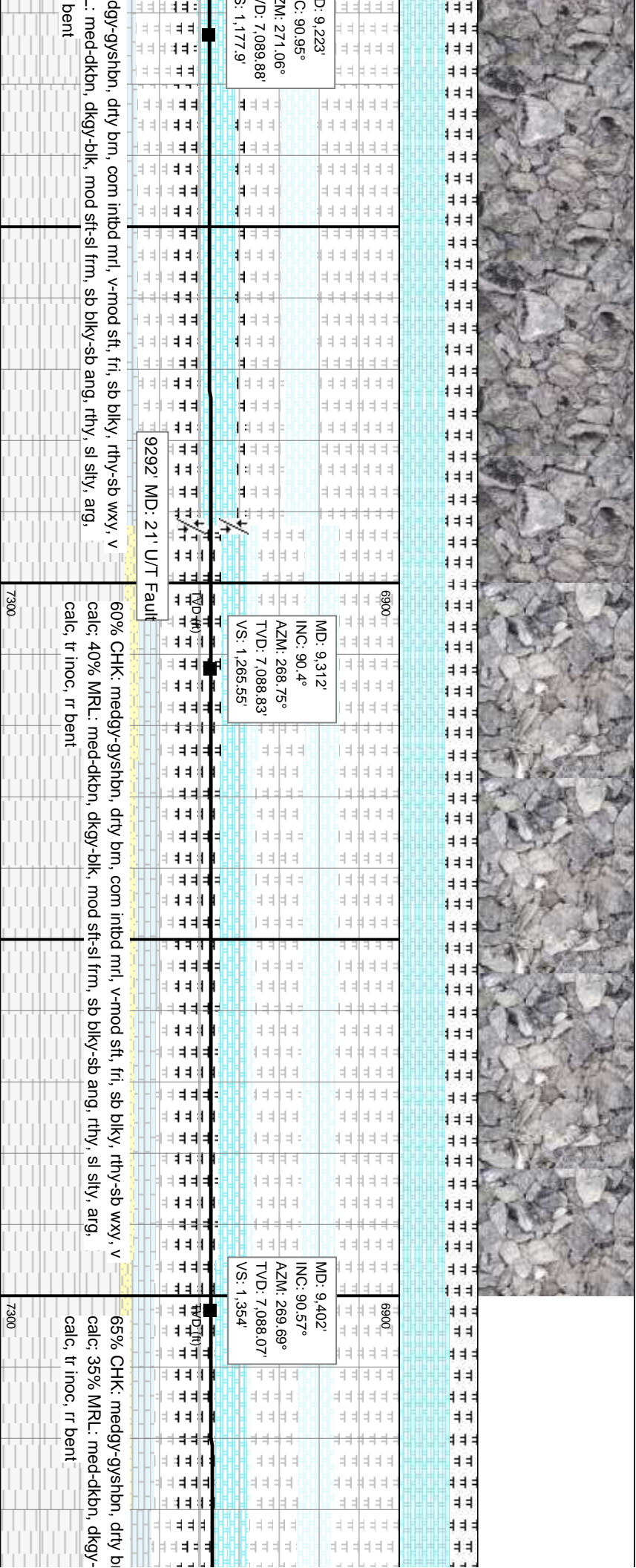
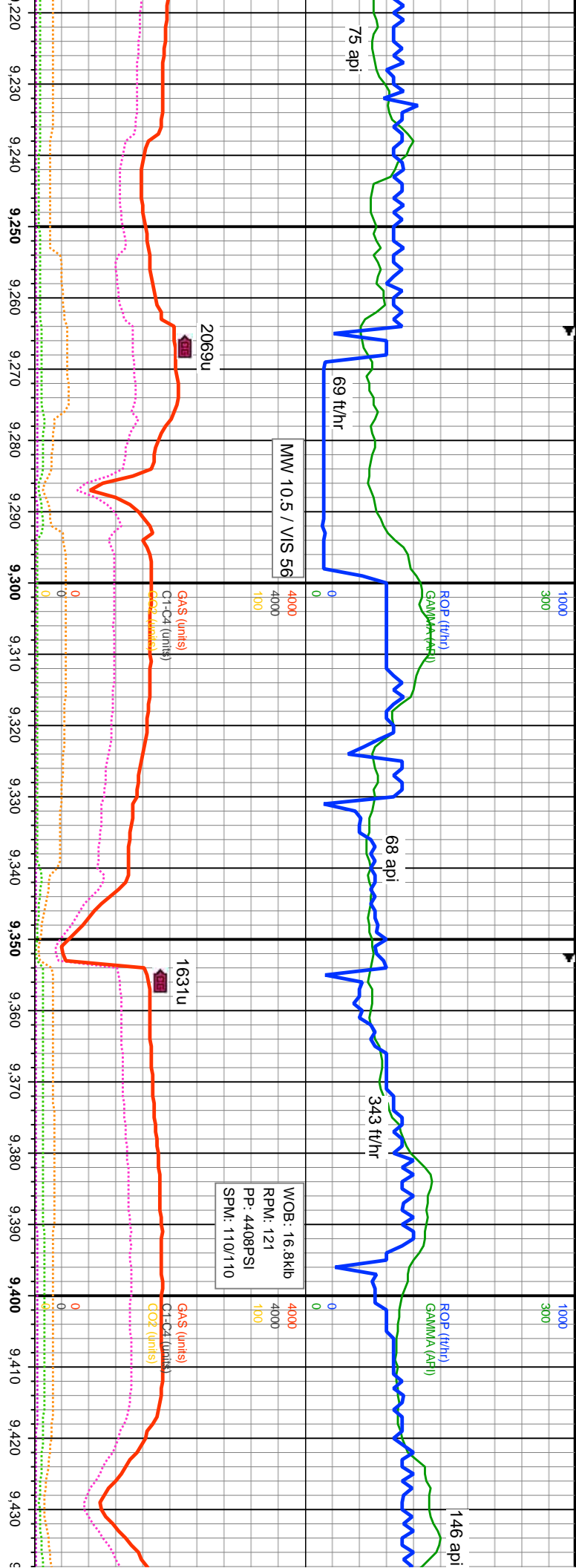


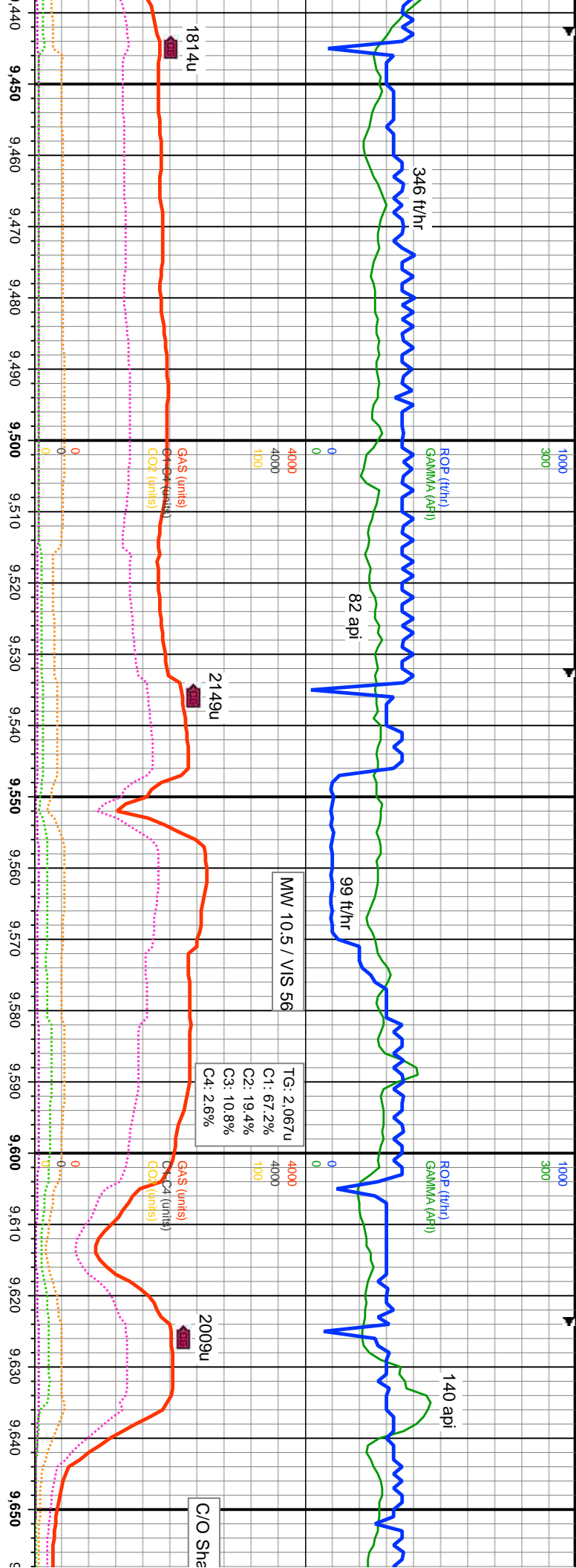
75% MRL: med-dk gy, dk bn ip, mod sft-sl frm, sb blk-y-biky, rthy, sl sly, arg, calc: 25% CHK: med gy-gy, bn ip, tr intbd mrl, mod sft-frt, sb blk-y, rthy-sb wxy, v calc, rr bent, rr pyr		60% MRL: med-dk gy, dk bn ip, mod sft-sl frm, sb blk-y-biky, rthy, sl sly, arg, calc: 40% CHK: med gy-gy, bn ip, tr intbd mrl, mod sft-frt, sb blk-y, rthy-sb wxy, v calc, rr bent, rr pyr		80% MRL: med gy-dk bn, sb blk-y-biky, mod sft-sl frm, rthy, arg, calc, intbd pyr; 20% CHK: med gy-bn, tr intbd mrl, mod sft-frt, sb blk-y, mot, rthy-sb wxy, v calc, rr bent, rr pyr		80% MRL: med gy-dk bn, sb blk-y-biky, mod sft-sl frm, rthy, arg, calc, intbd pyr; 20% CHK: med gy-bn, tr intbd mrl, mod sft-frt, sb blk-y, mot, rthy-sb wxy, v calc, rr bent, rr pyr		70% CHK: dk bn sft-frt, mot, intbd MRL: med gy-dk frm, rthy, arg, ca	
TVD (ft)		TVD (ft)		TVD (ft)		TVD (ft)		TVD (ft)	
6900		6900		6900		6900		6900	
7300		7300		7300		7300		7300	

MD: 7.968'
INC: 70.79°
AZM: 284.42°
TVD: 7,041.11'
VS: -56.81'

MD: 8.058'
INC: 78.51°
AZM: 278.97°
TVD: 7,064.93'
VS: 29.83'





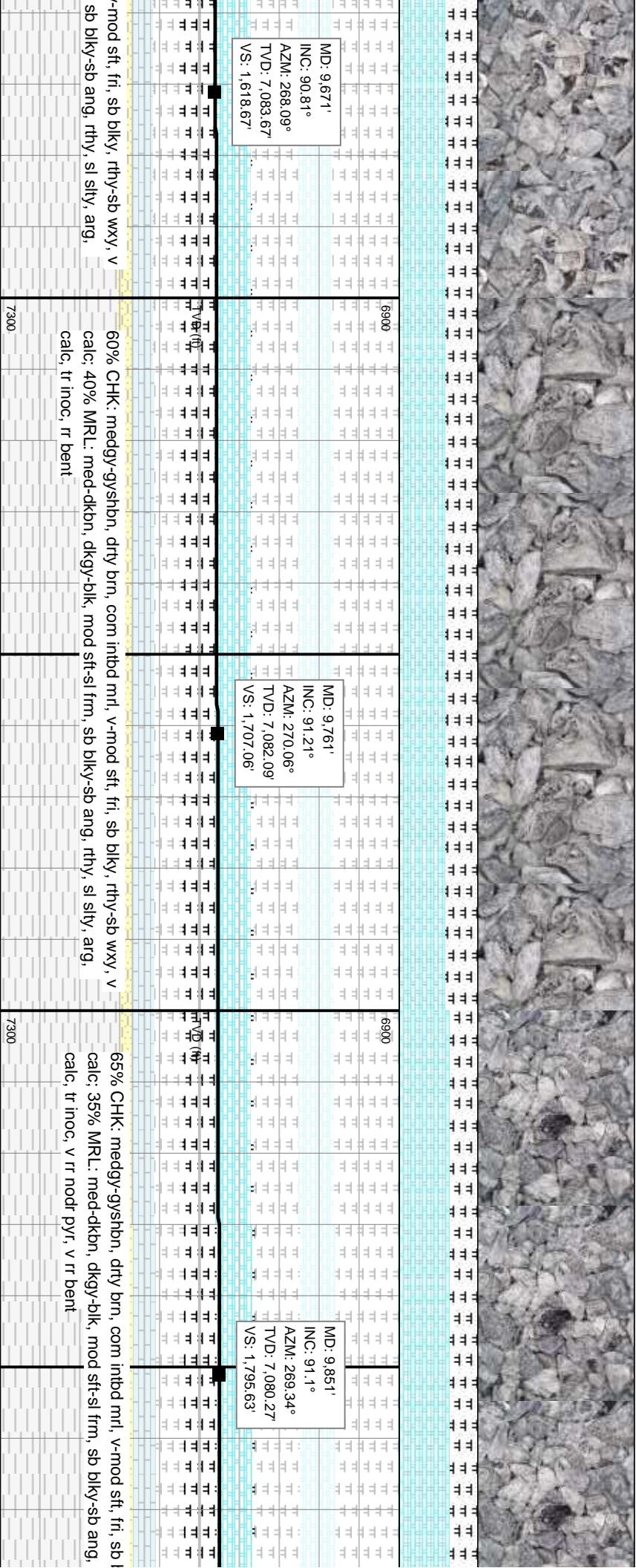
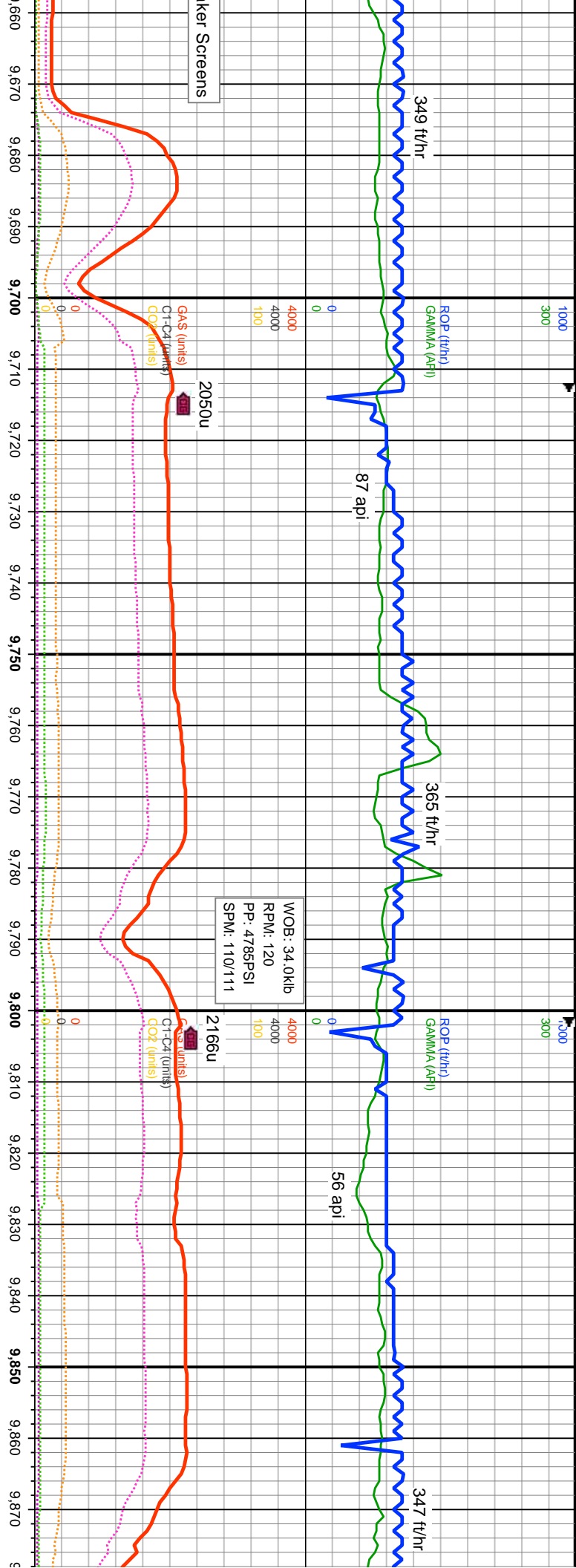


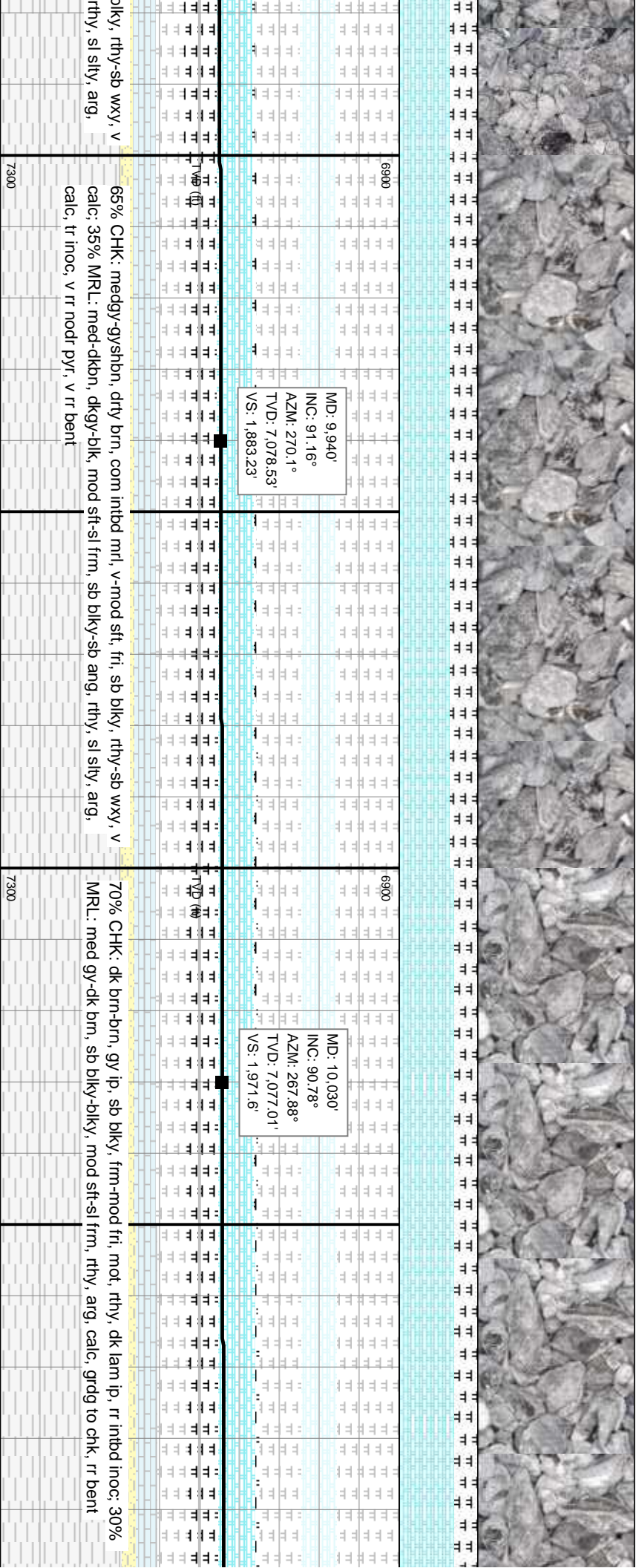
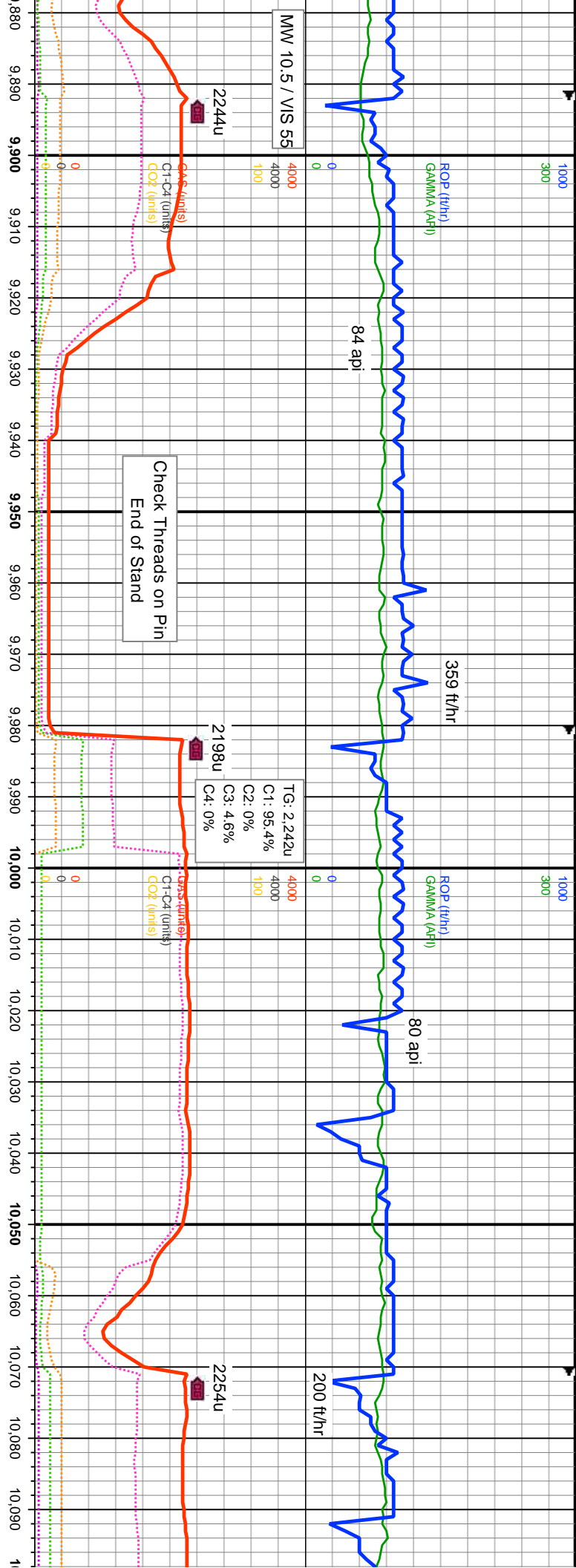
MD: 9.492'
INC: 90.75°
AZM: 270.02°
TVD: 7.087.04'
VS: 1.442.63'

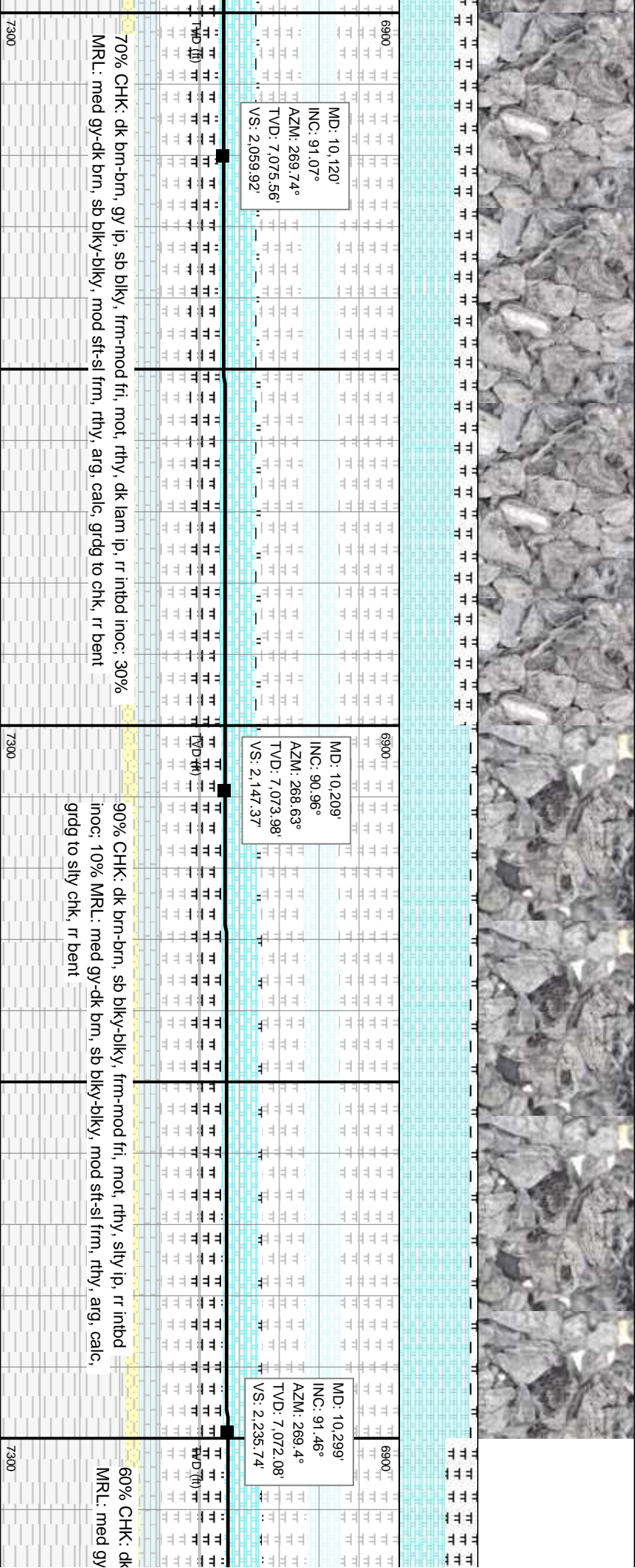
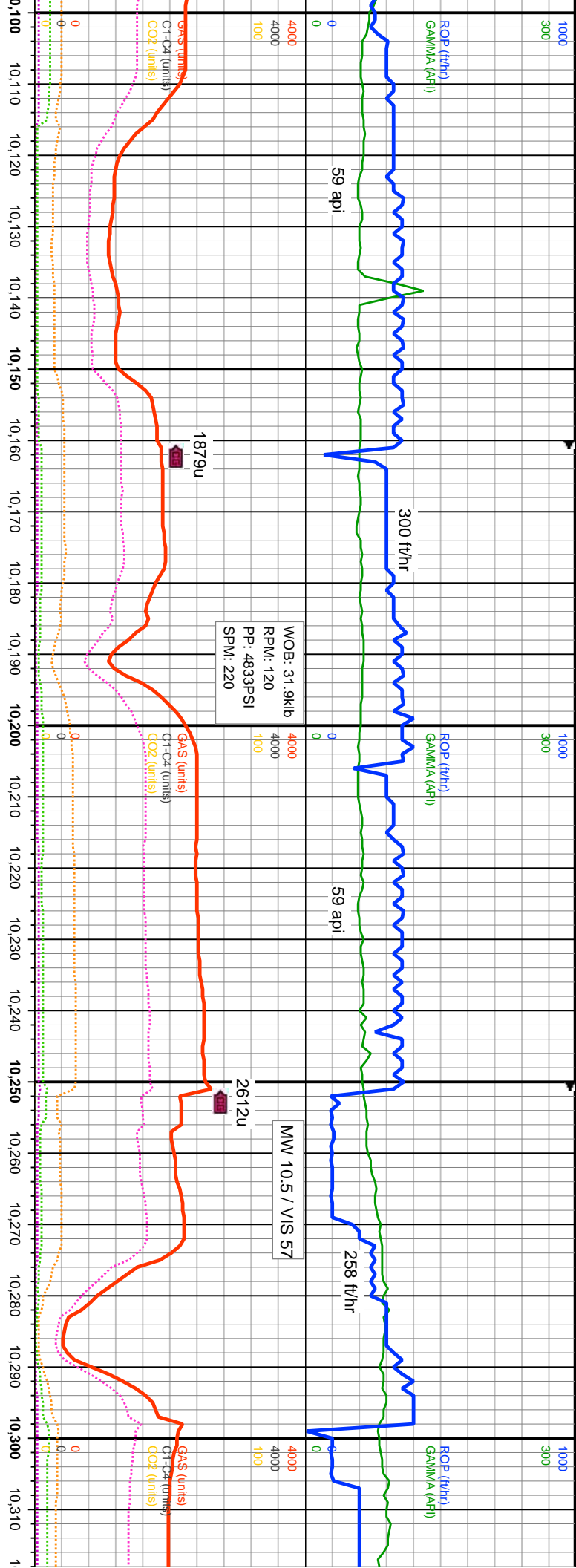
MD: 9.582'
INC: 91.37°
AZM: 269.9°
TVD: 7.085.37'
VS: 1.531.28'

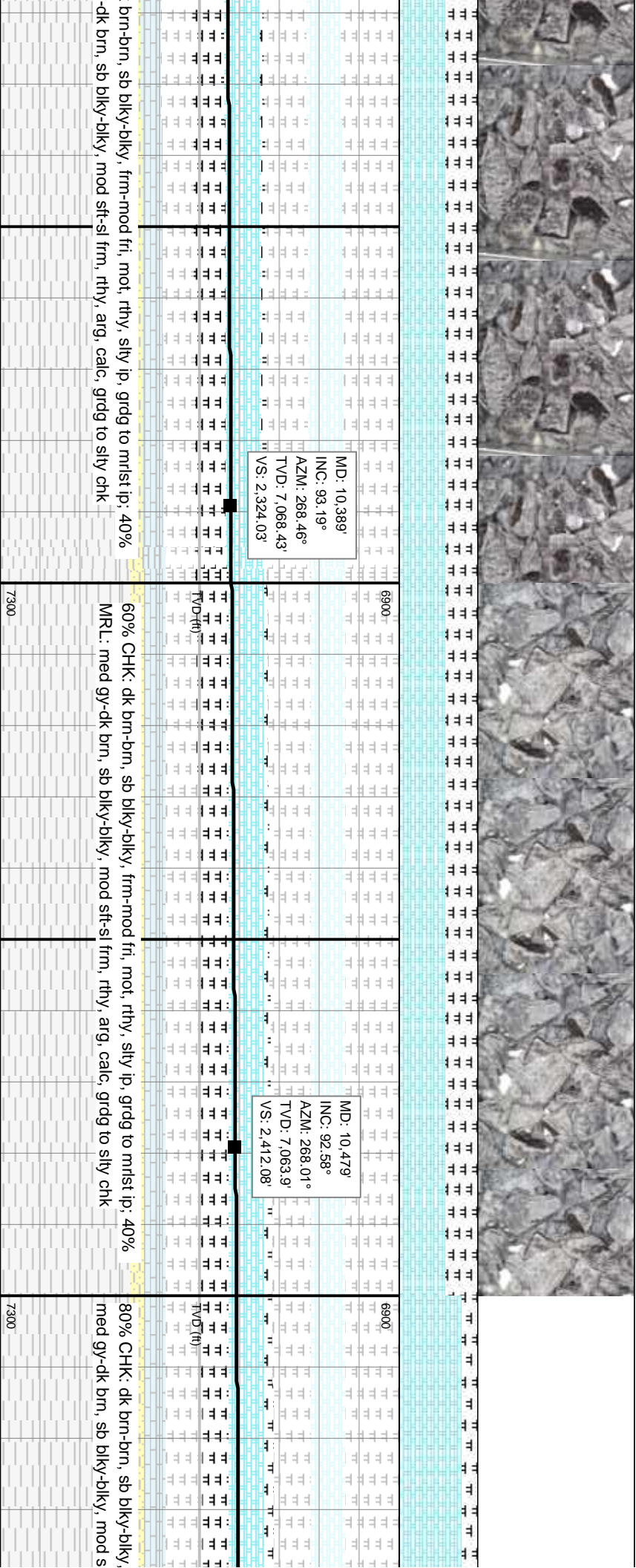
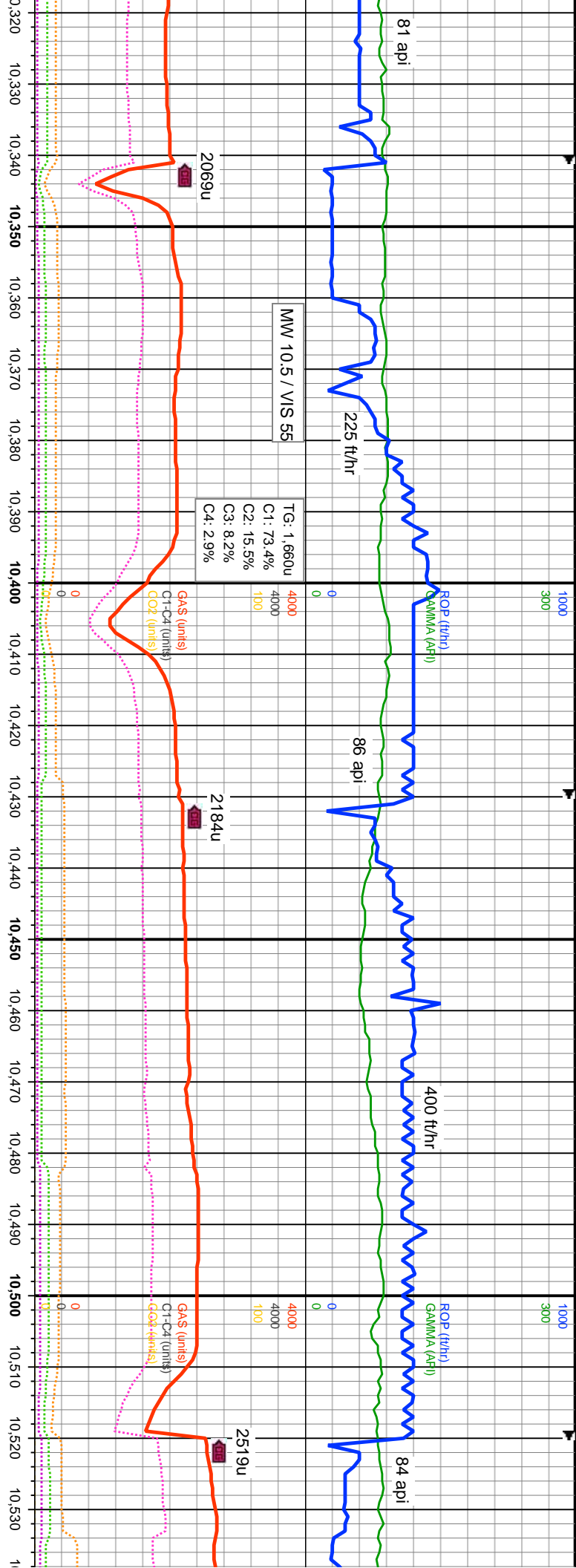
65% CHK: medgy-gyshbn, dty brn, com intbd mrl, v-mod sft, fri, sb blk, rthy-sb wxy, v
calc: 35% MRL: med-dkbn, dky-blk, mod sft-sl frm, sb blk-sb ang, rthy, sl sfty, arg,
calc, tr inoc, rr bent

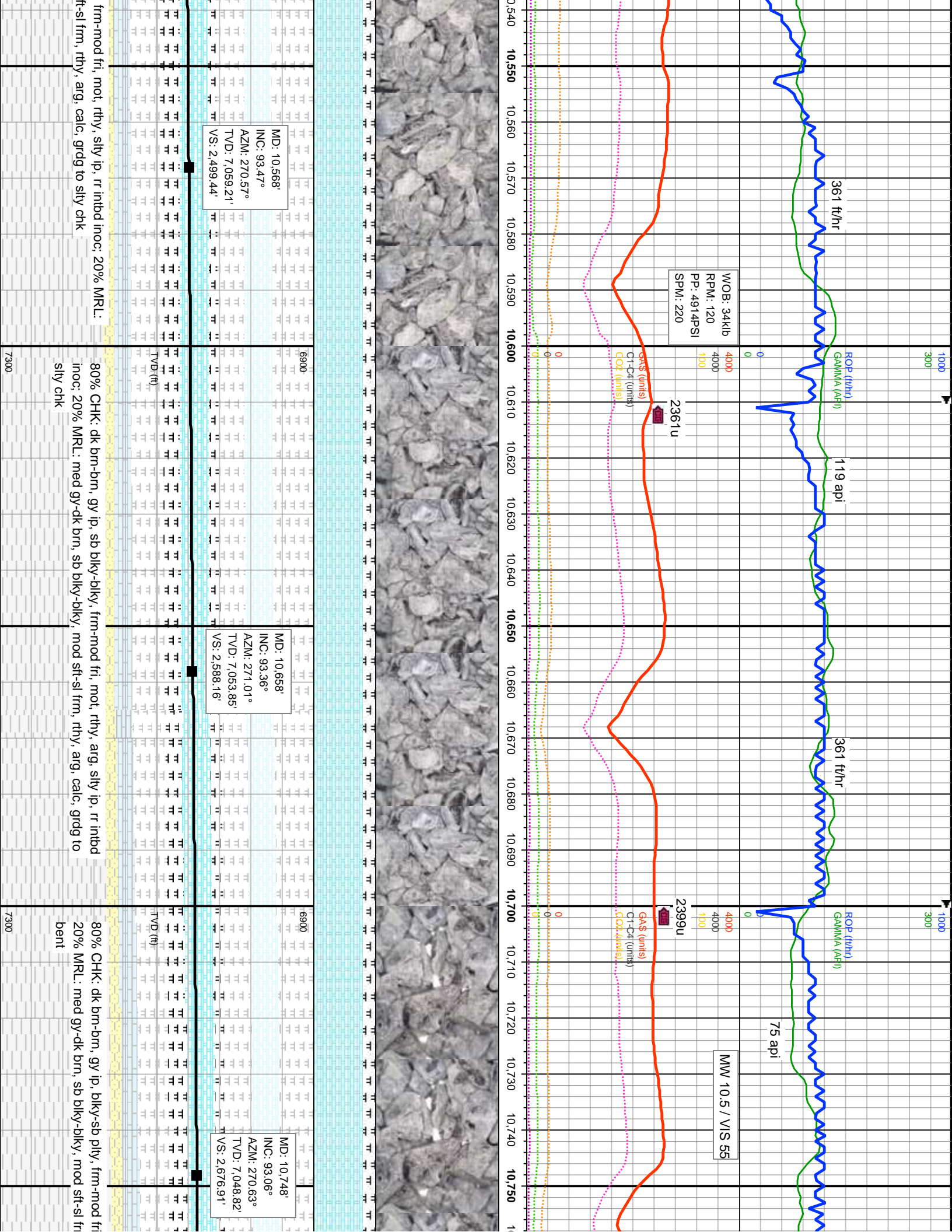
60% CHK: medgy-gyshbn, dty brn, com intbd mrl, v
calc: 40% MRL: med-dkbn, dky-blk, mod sft-sl frm,
calc, tr inoc, rr bent

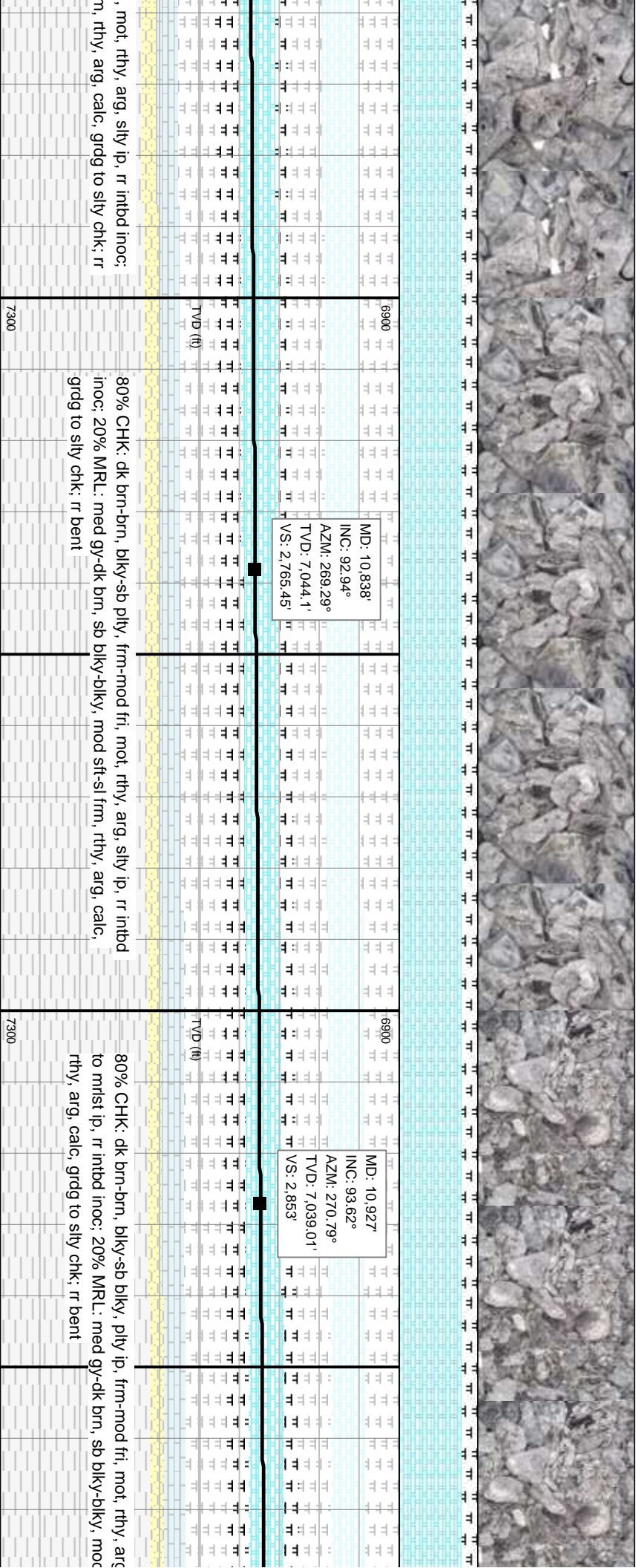
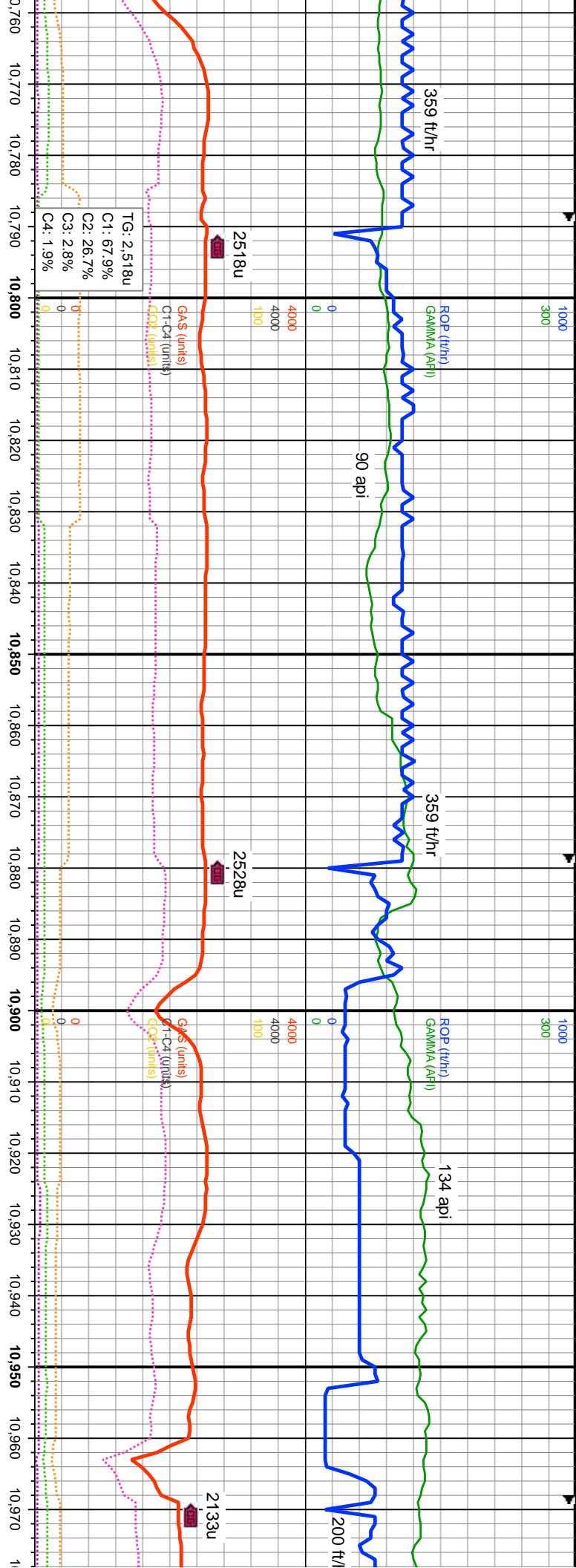


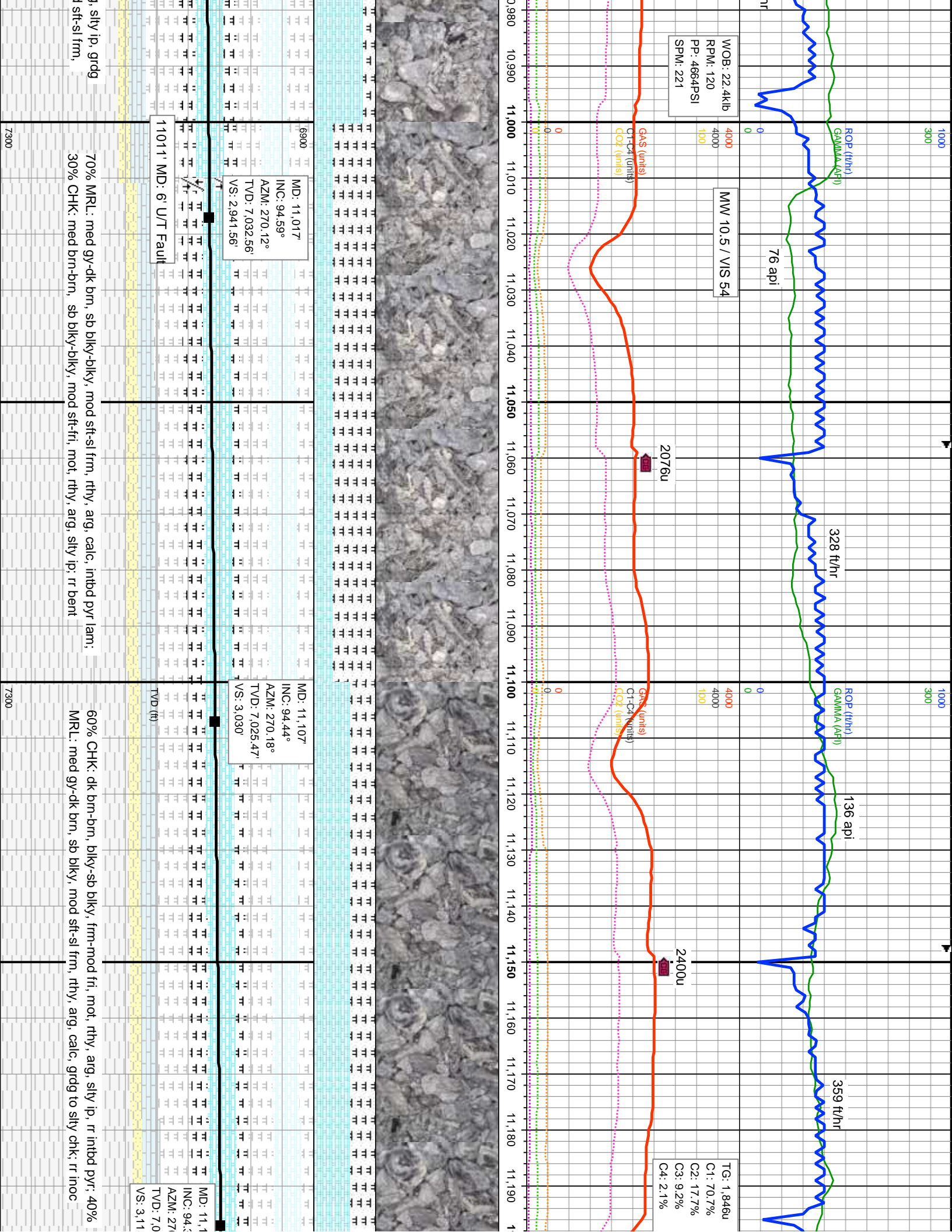


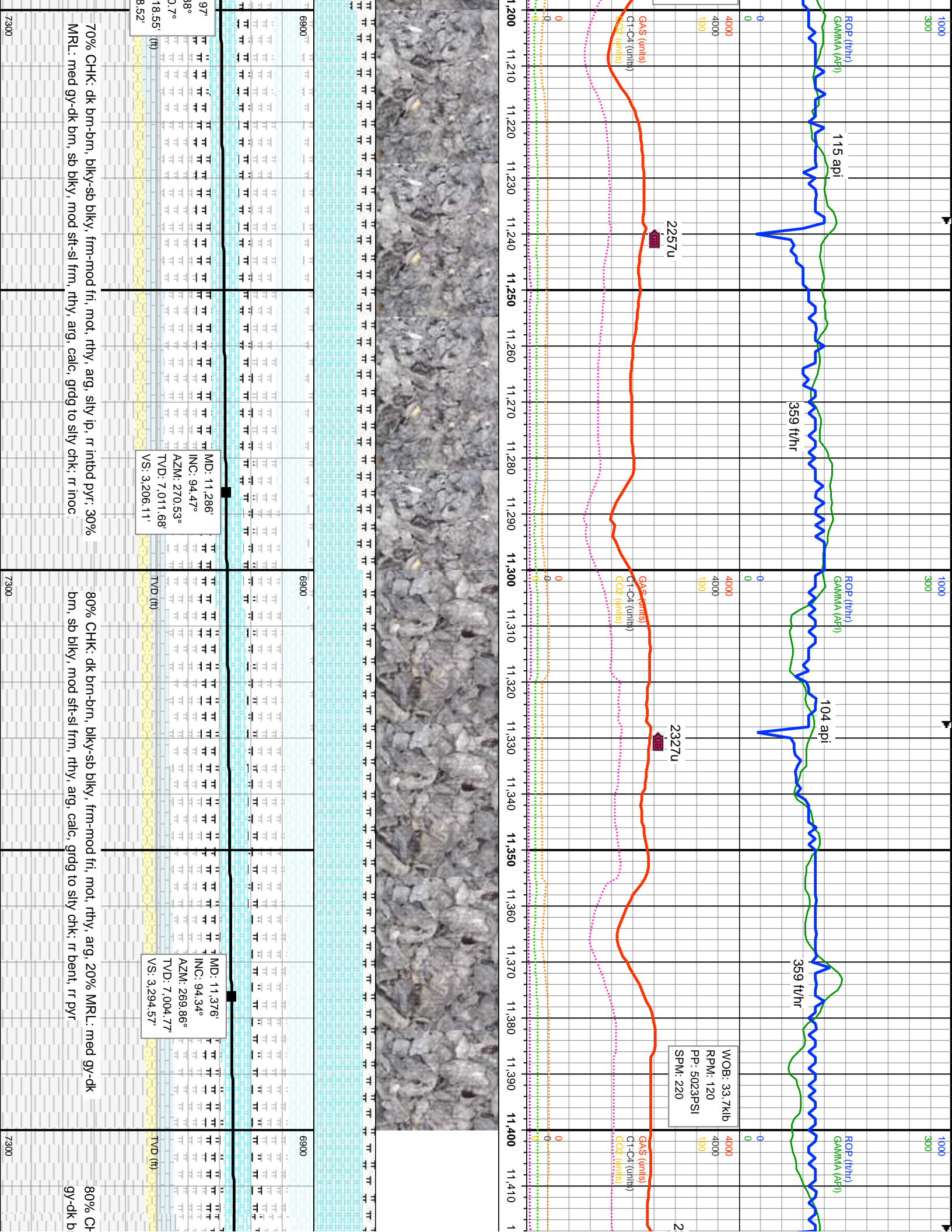


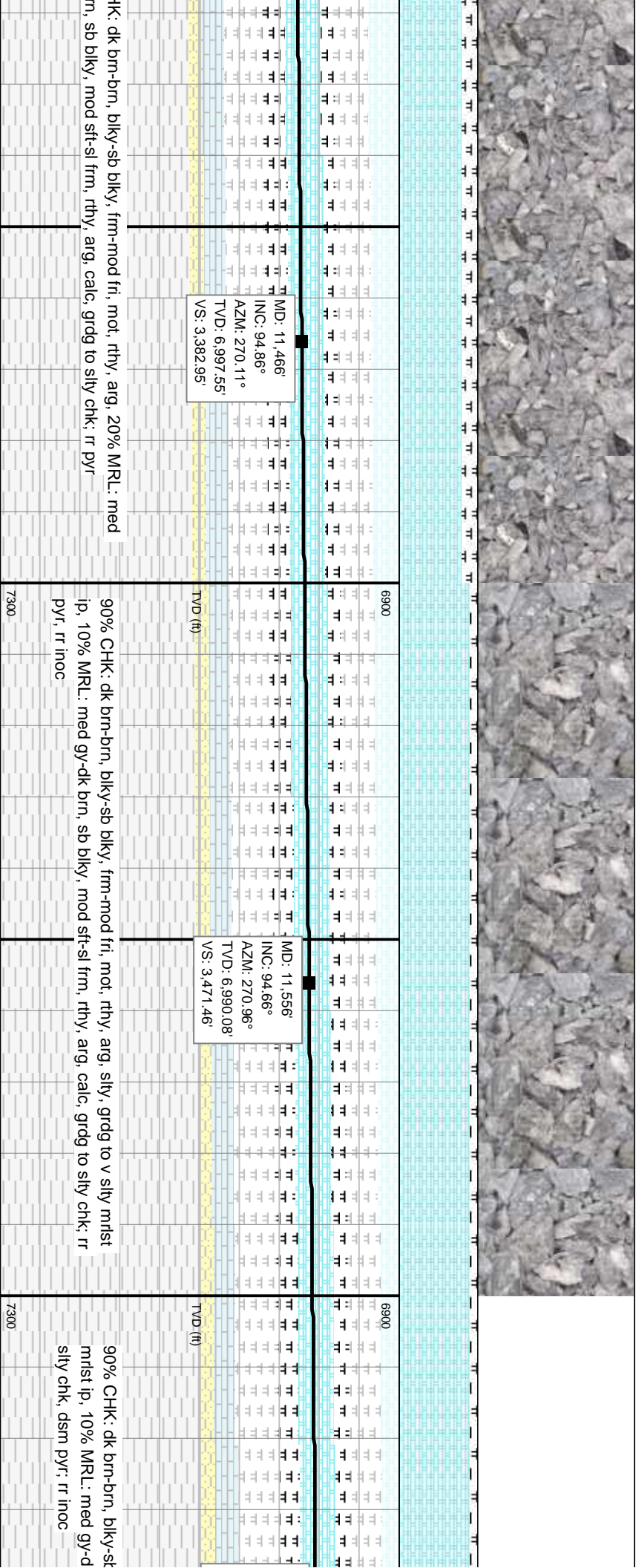
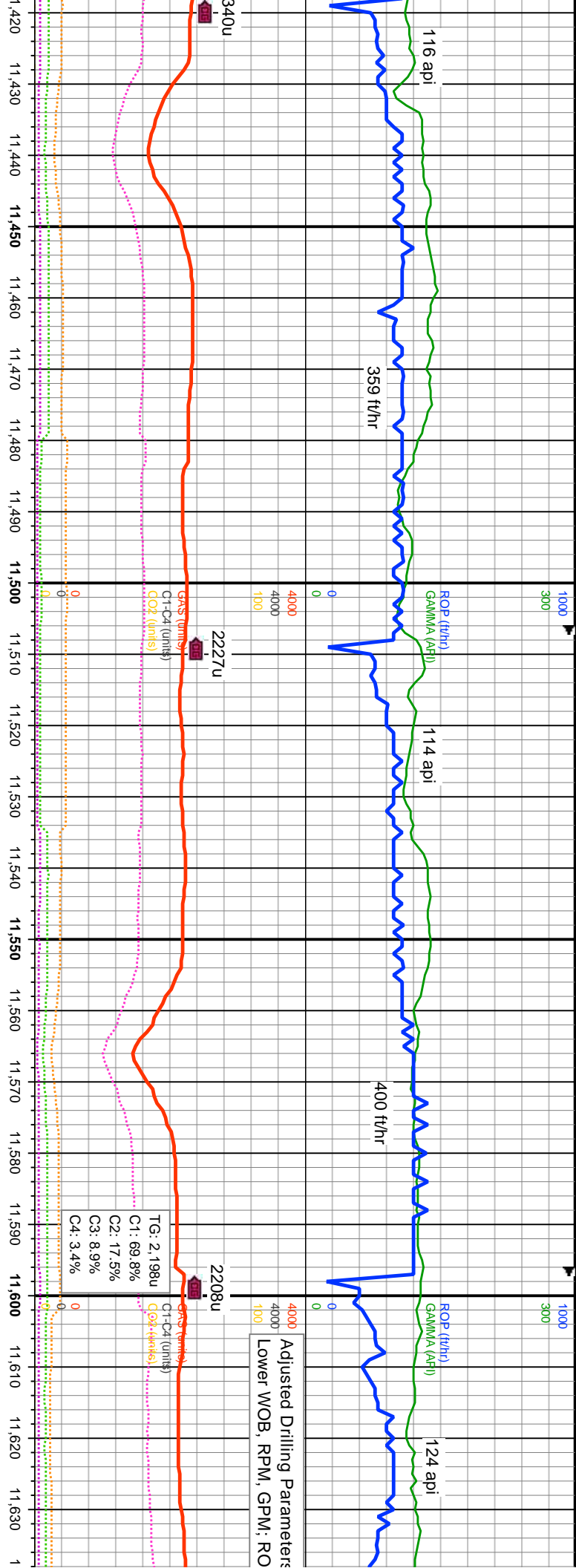


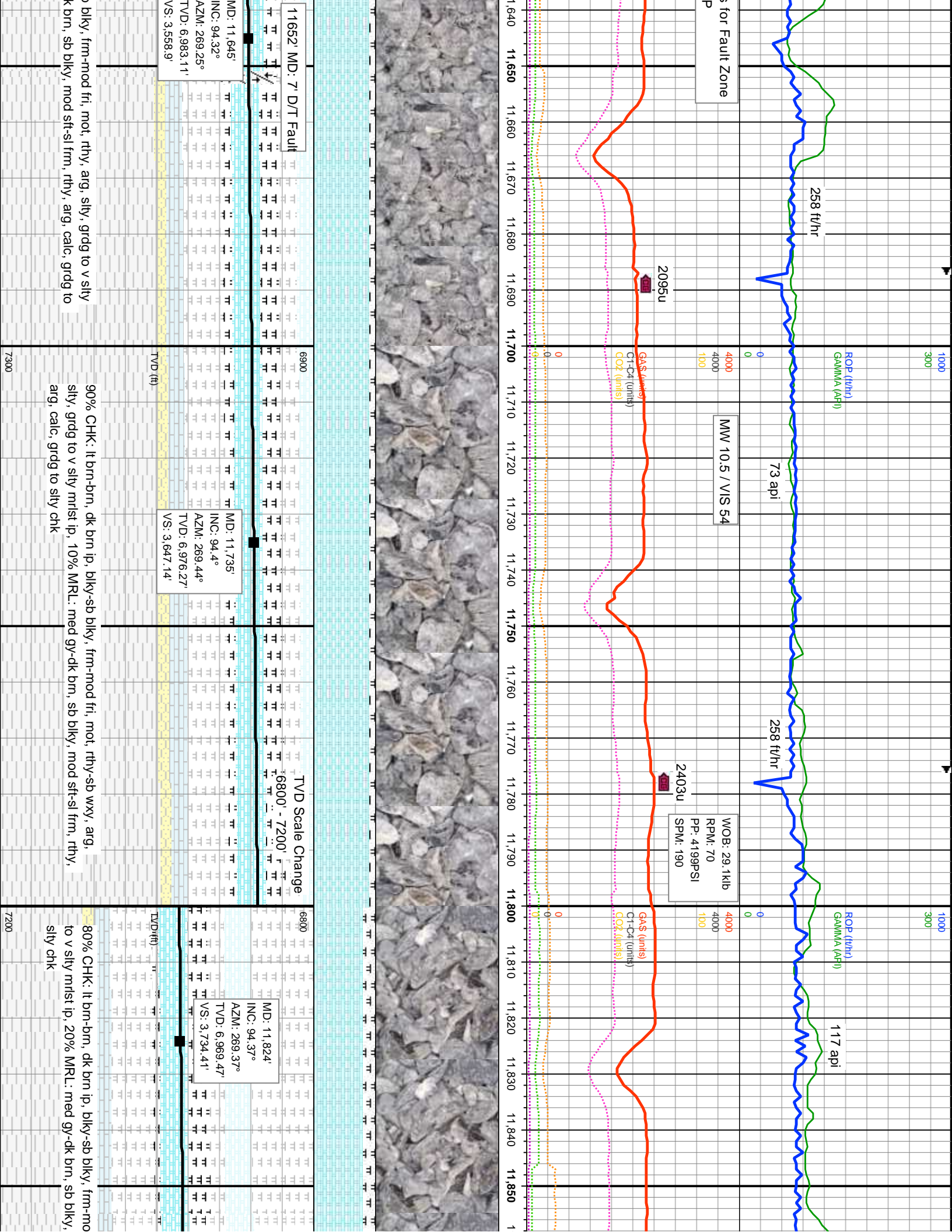


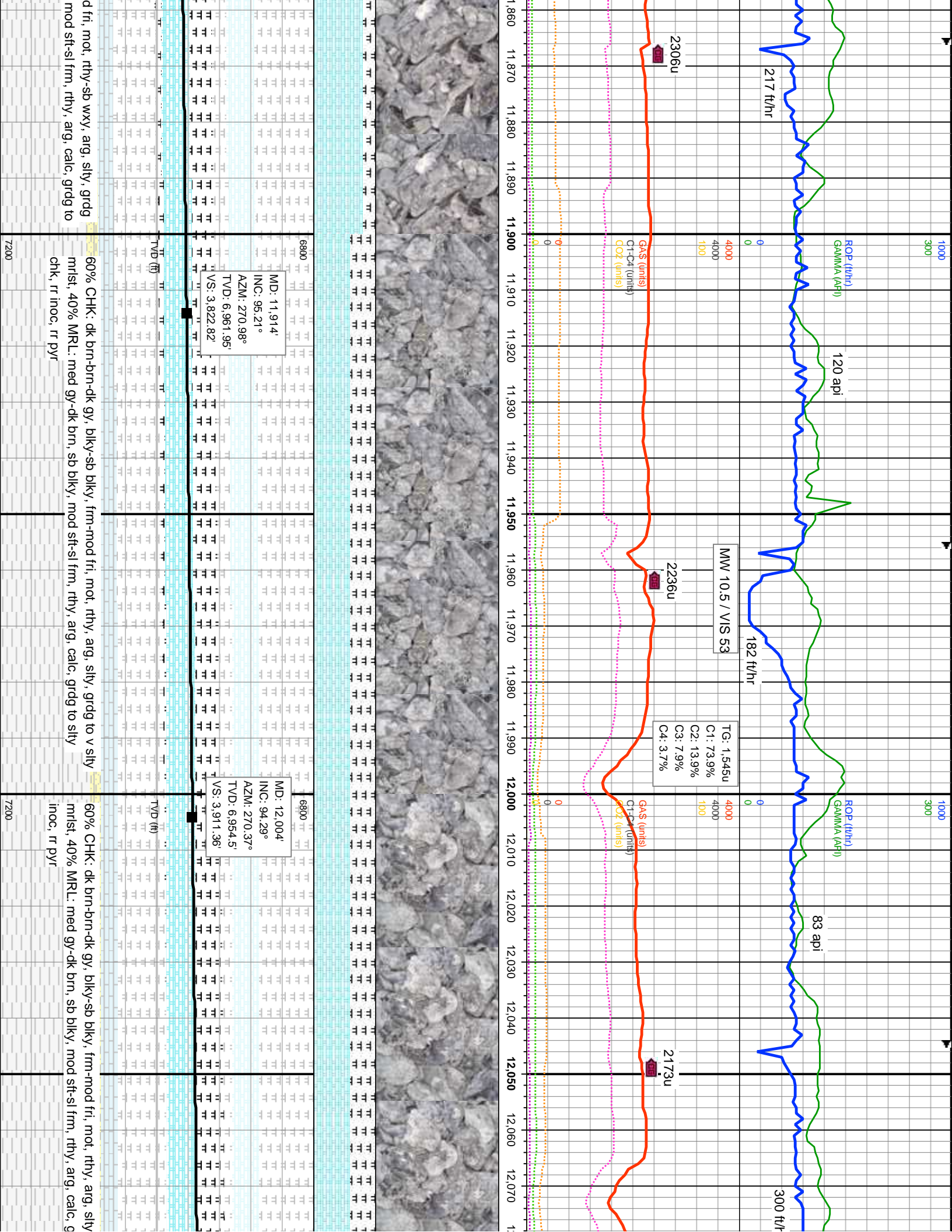


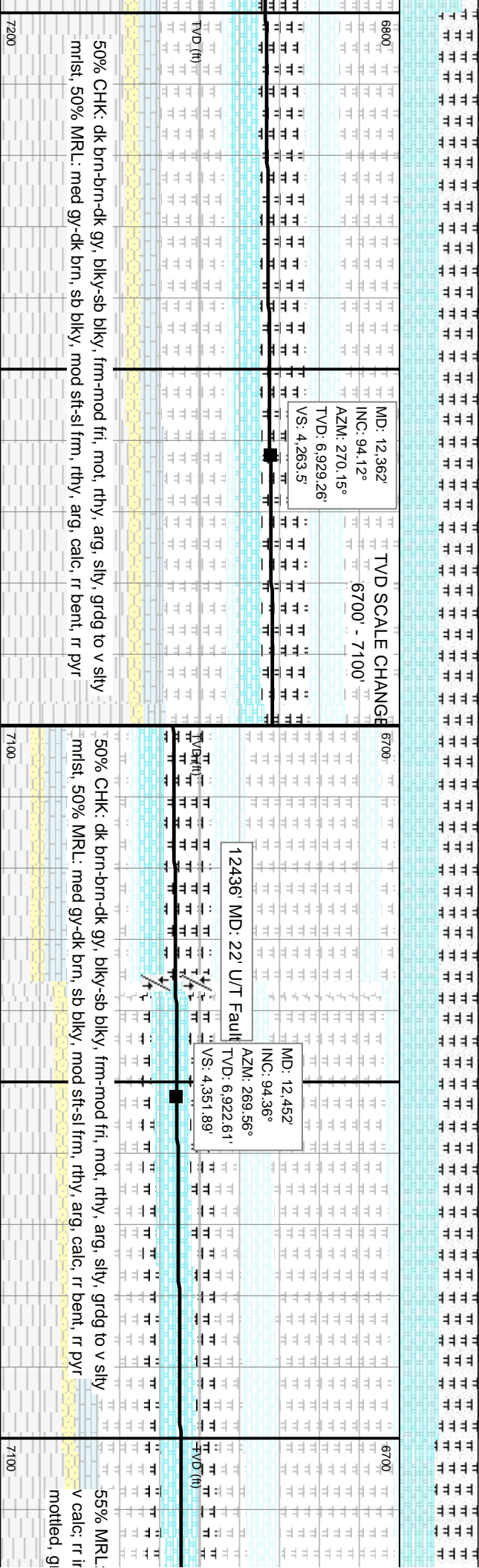
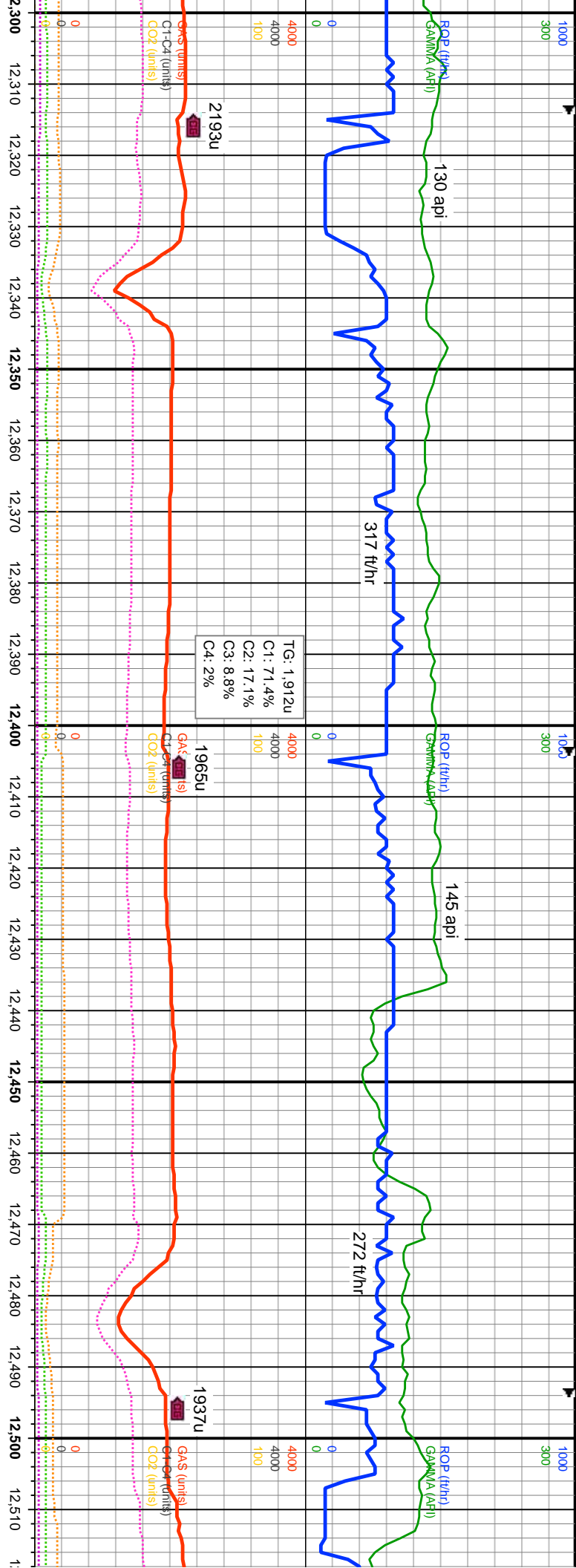


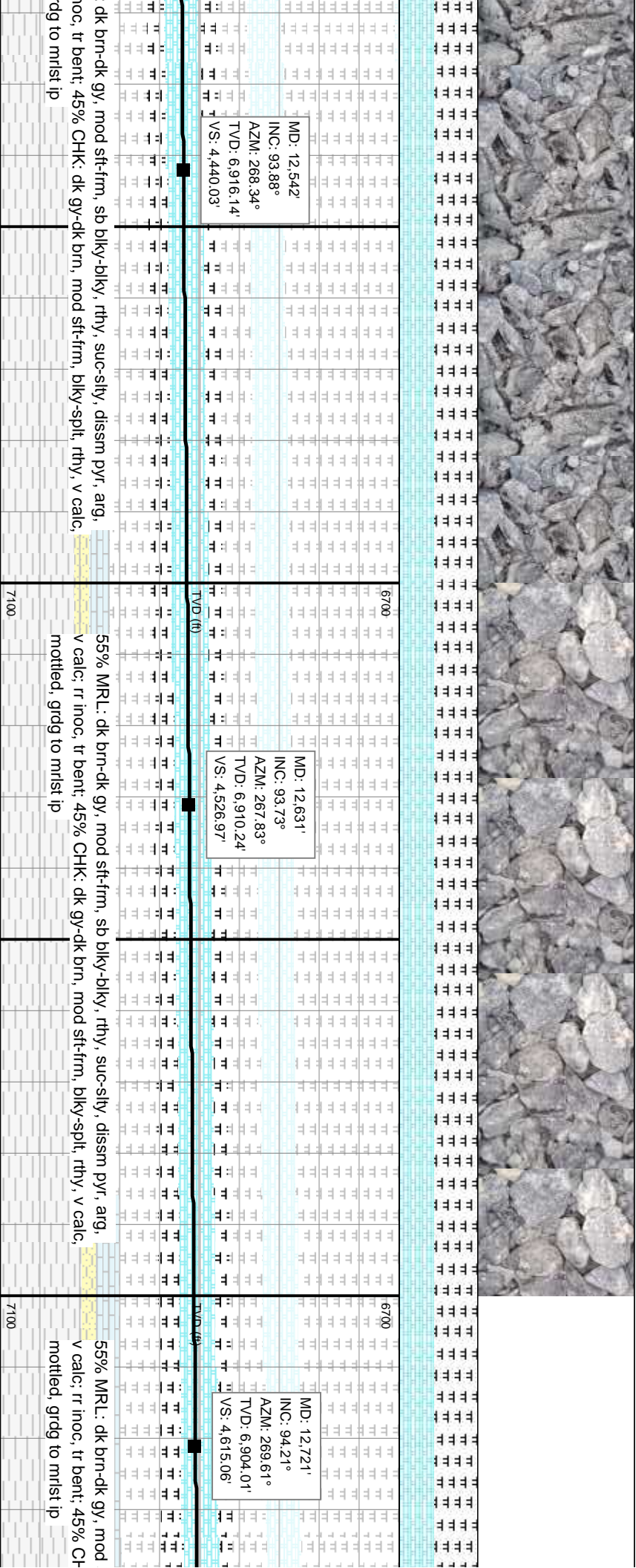
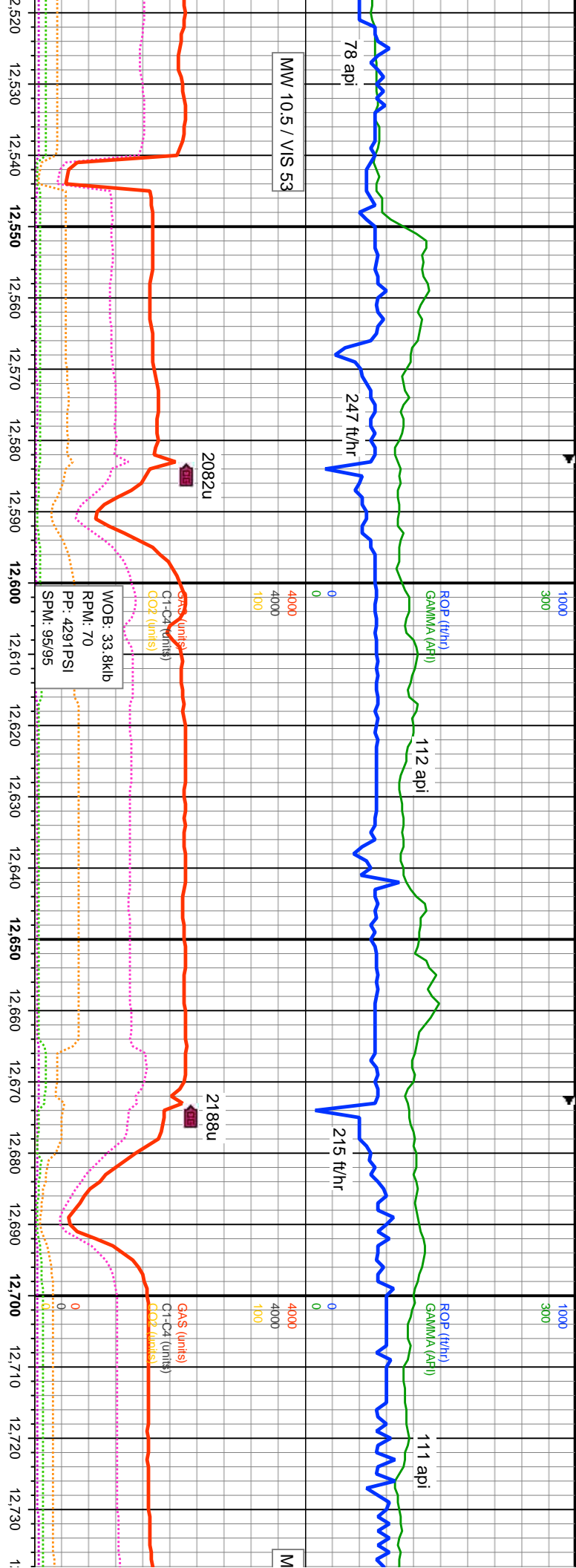


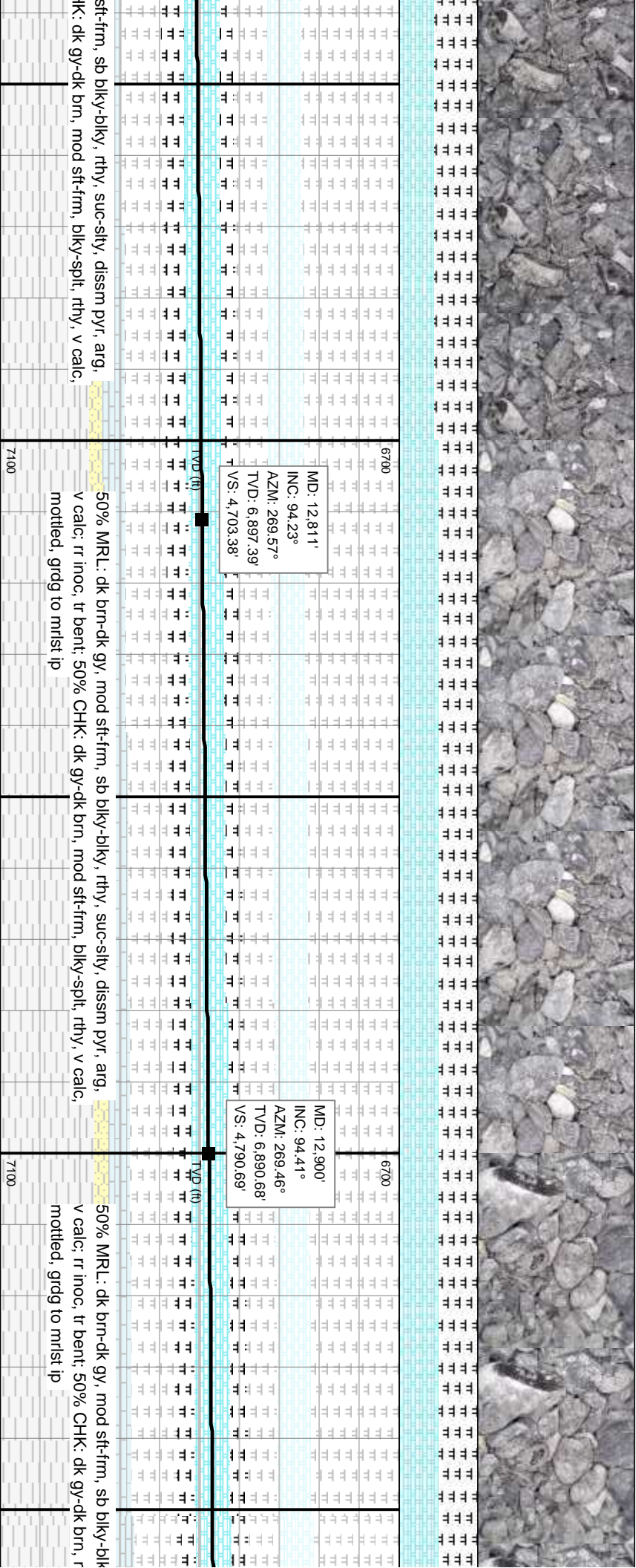
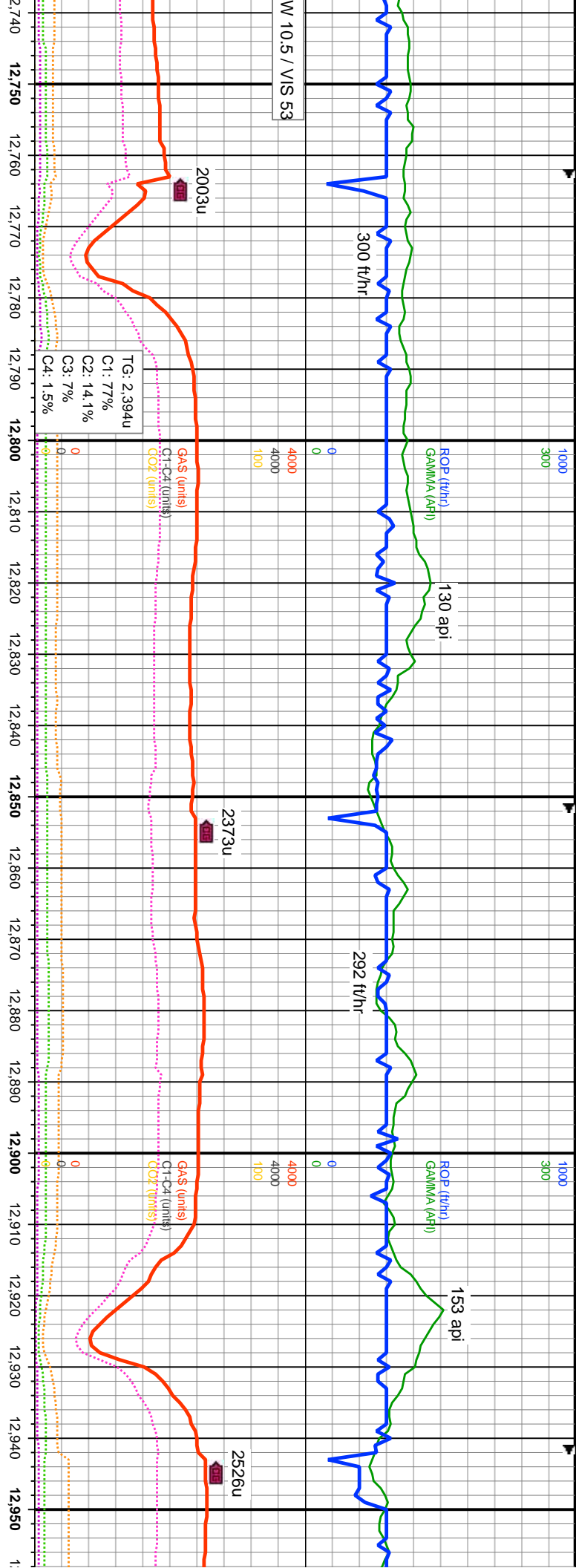


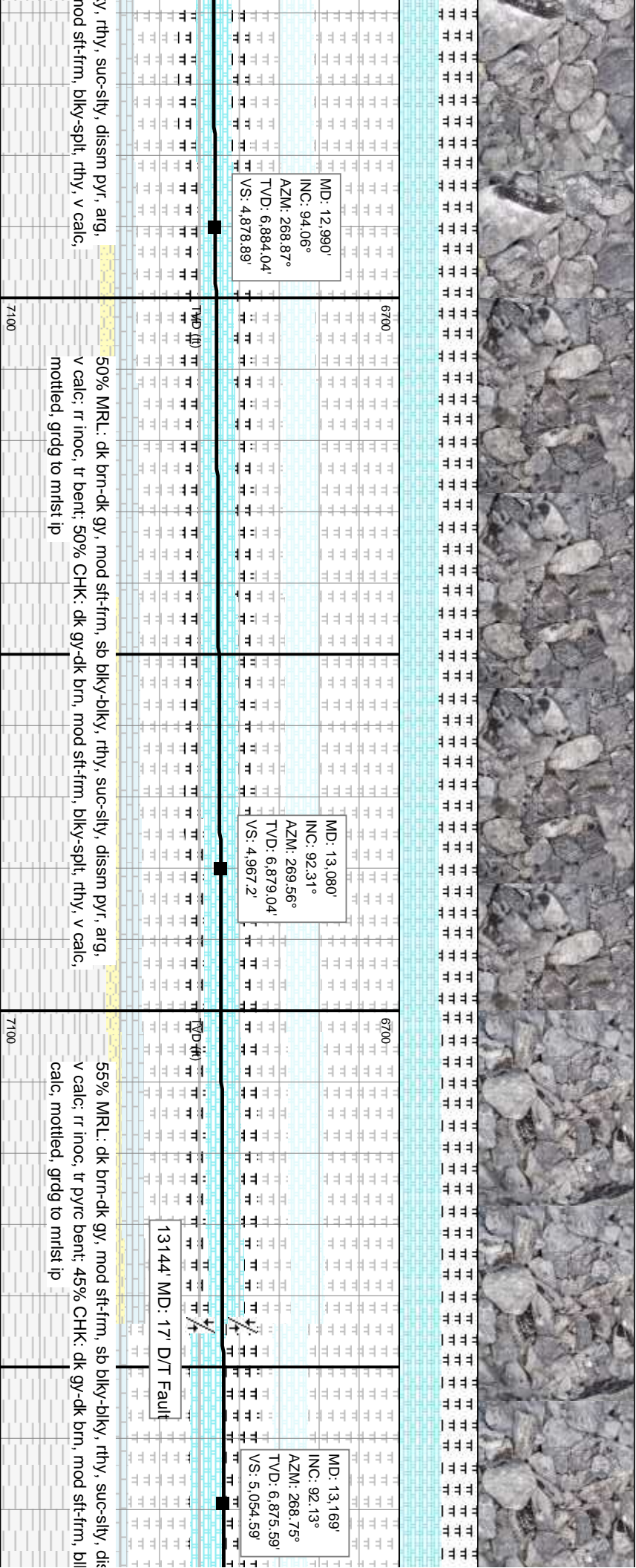
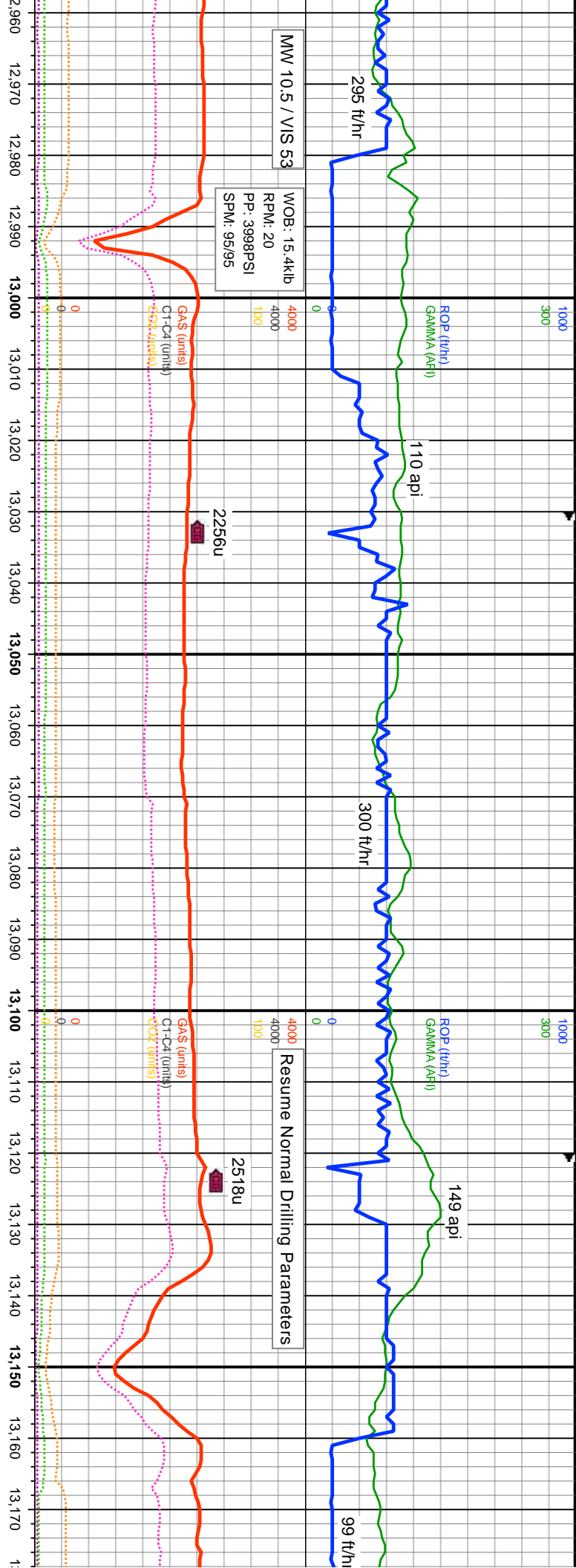


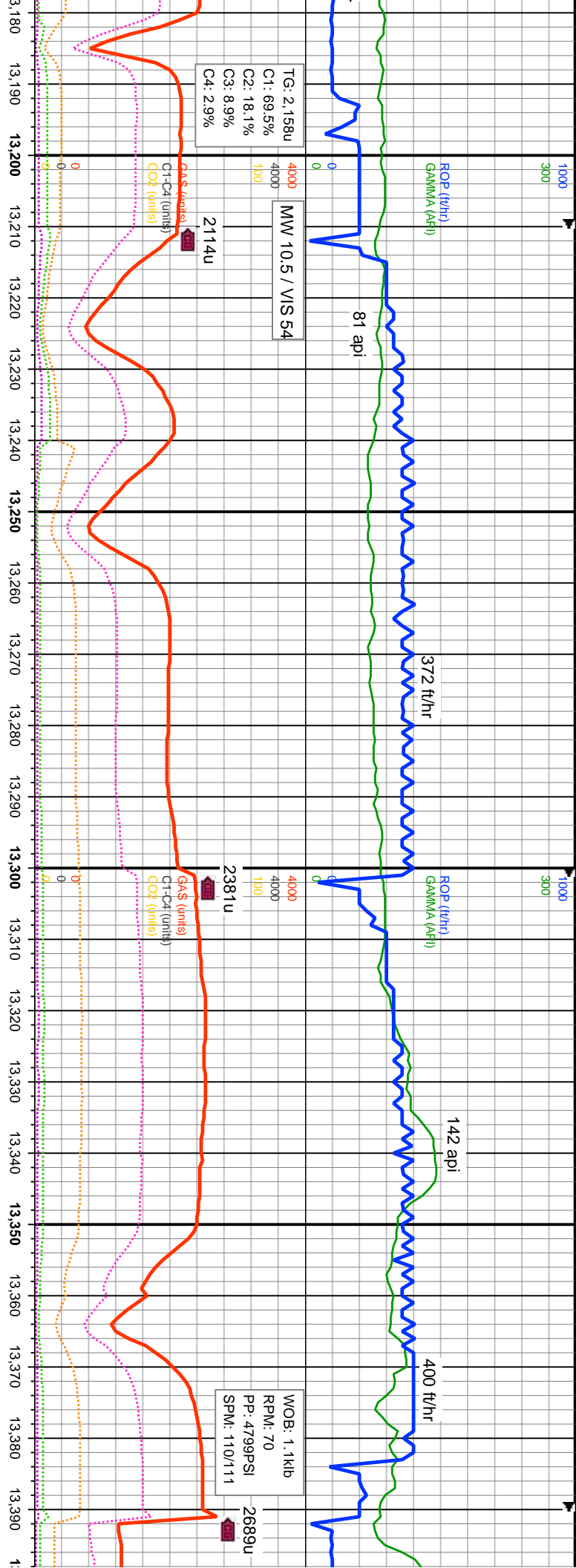




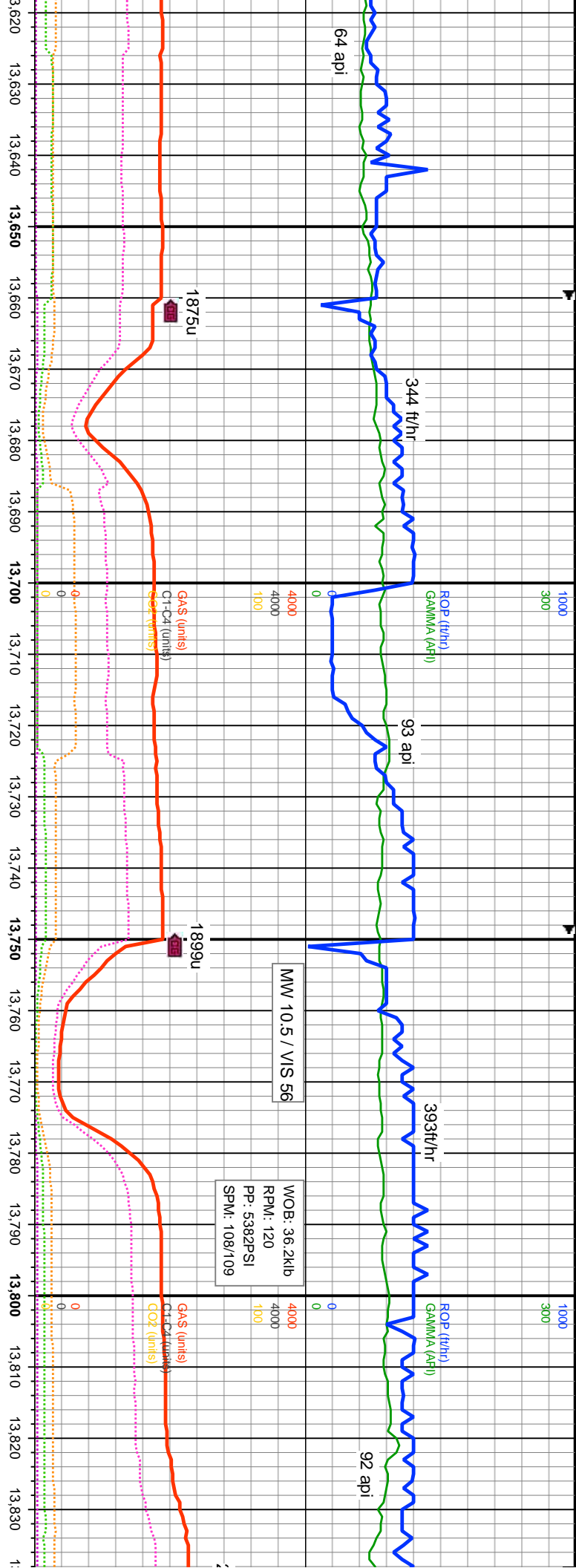





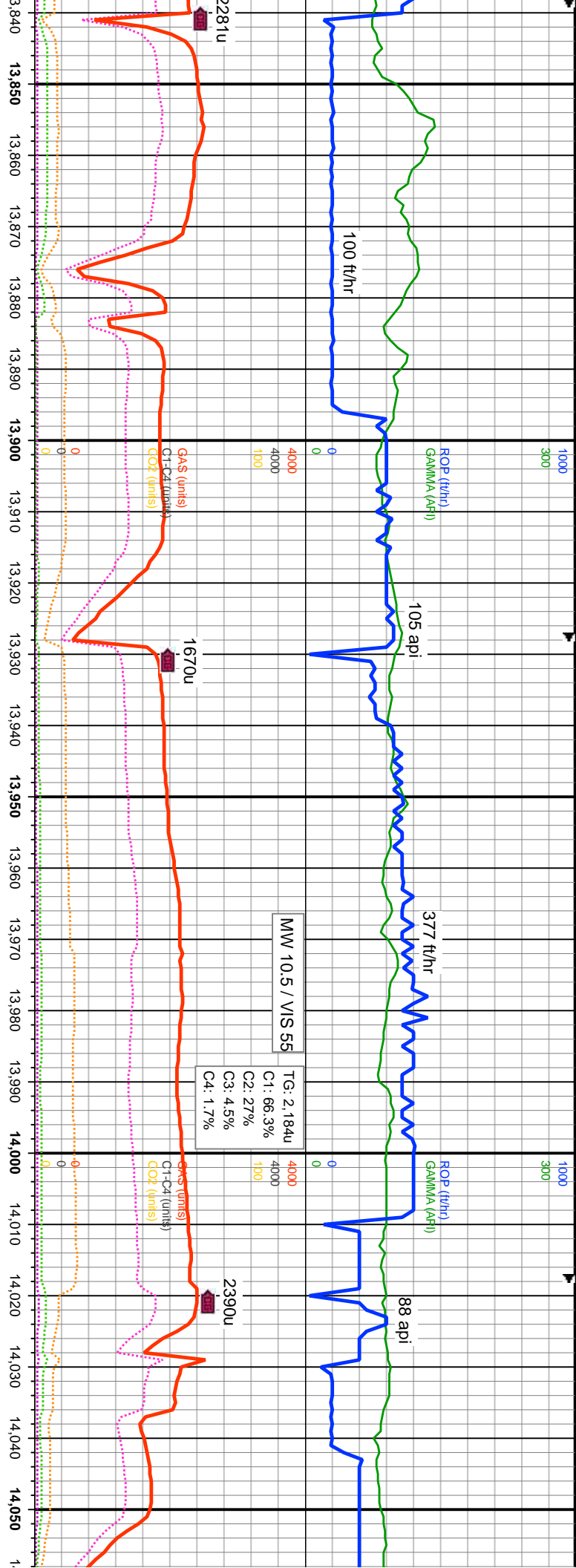




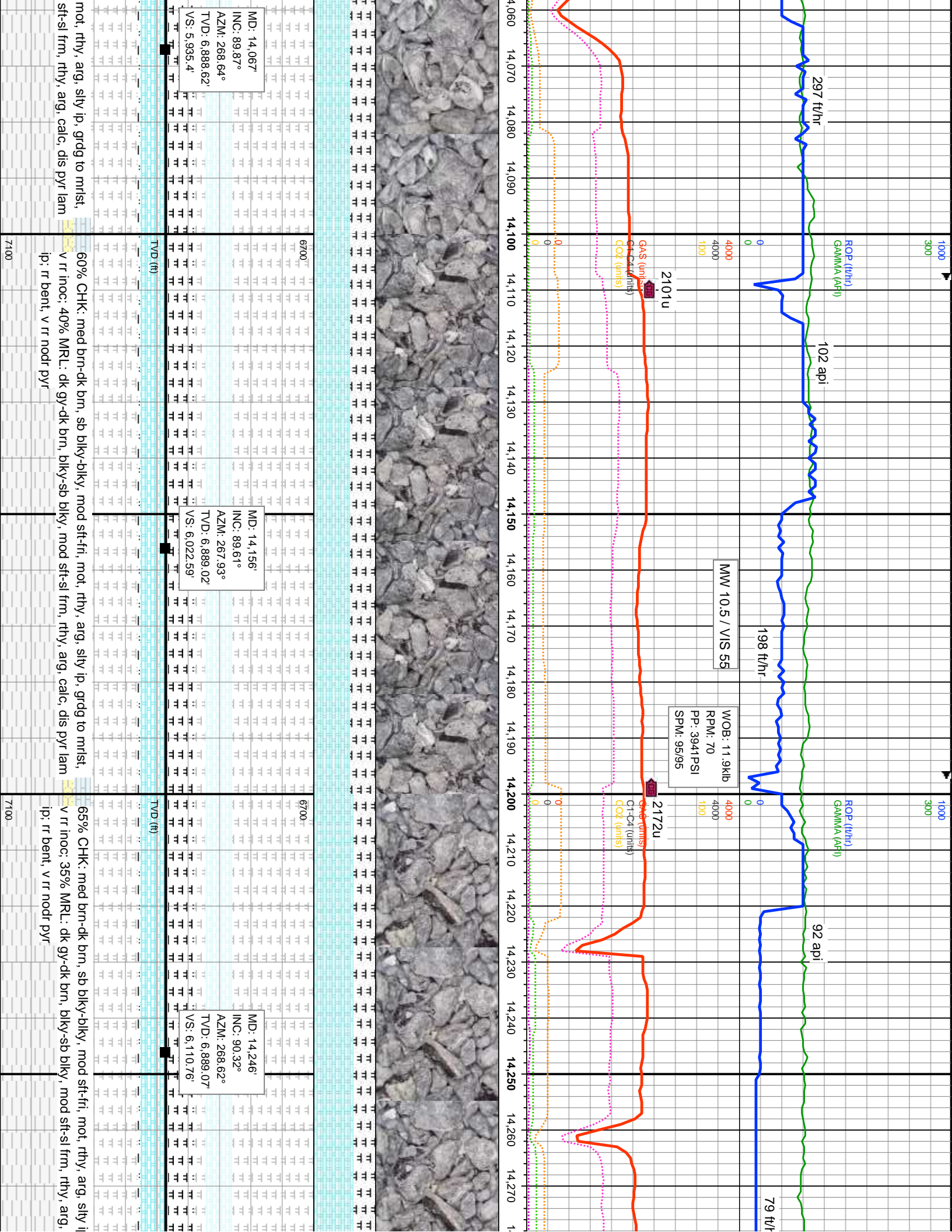
55% MRL: dk brn-dk gy, mod sft-frm, sb blkly-blky, rthy, suc-sltly, dissn pyr, arg, v calc; r inoc, tr pyrc bent; 45% CHK: dk gy-dk brn, mod sft-frm, blkly-split, rthy, v calc, mottled, grdg to mlst ip		55% MRL: dk brn-dk gy, mod sft-frm, sb blkly-blky, rthy, suc-sltly, dissn pyr, arg, v calc; r inoc, tr pyrc bent; 45% CHK: dk gy-dk brn, mod sft-frm, blkly-split, rthy, v calc, mottled, grdg to mlst ip	
6700'	MD: 13.259° INC: 90.17° AZM: 269.64° TVD: 6,873.79' VS: 5,143.01'	6700'	MD: 13.349° INC: 83.98° AZM: 269.09° TVD: 6,878.38' VS: 5,231.35'
TVD (ft)		TVD (ft)	
7100		7100	
Bit #:		Bit #:	
Size:		Size:	
Make:		Make:	
Model:		Model:	
Jct: 4		Jct: 4	
S/N: J		S/N: J	
Depth		Depth	

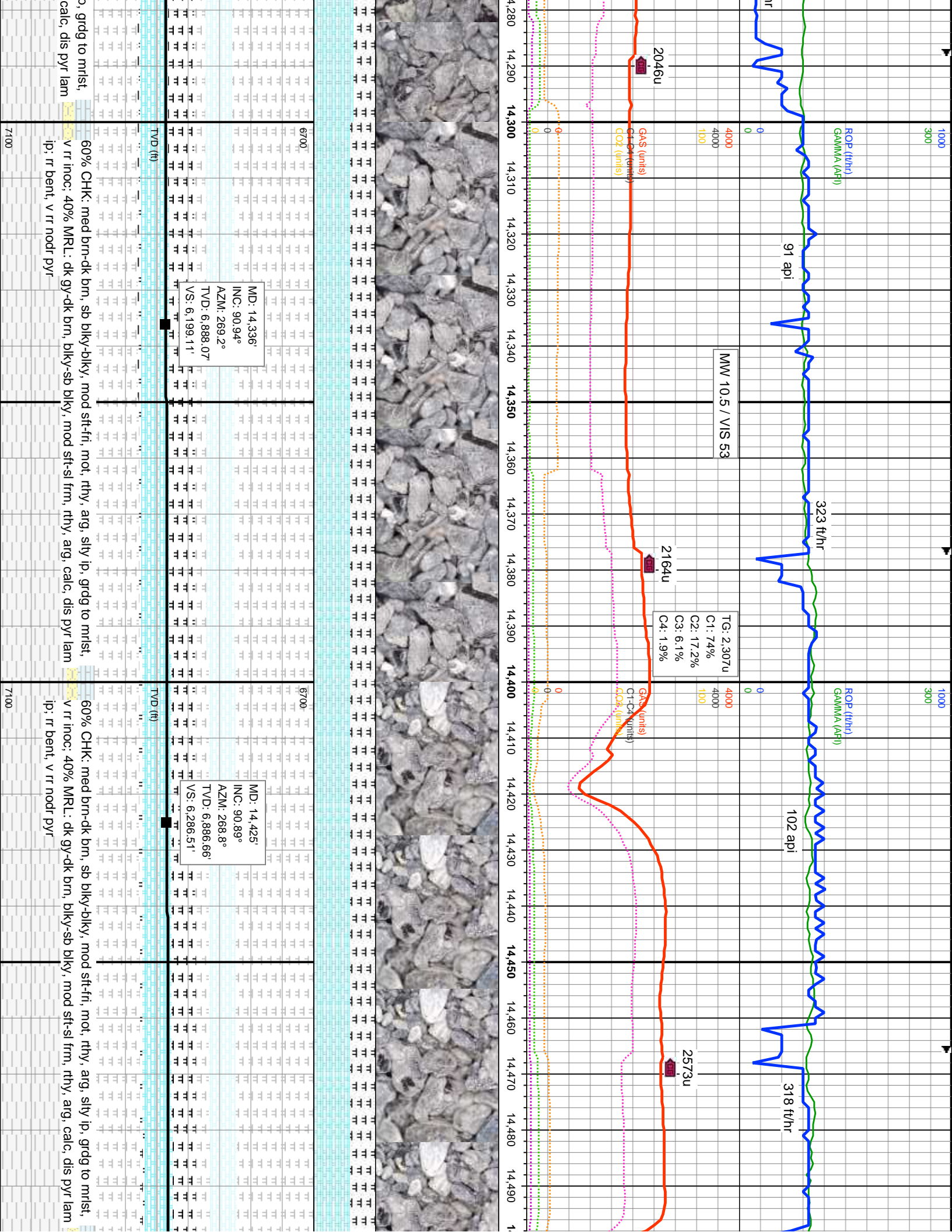


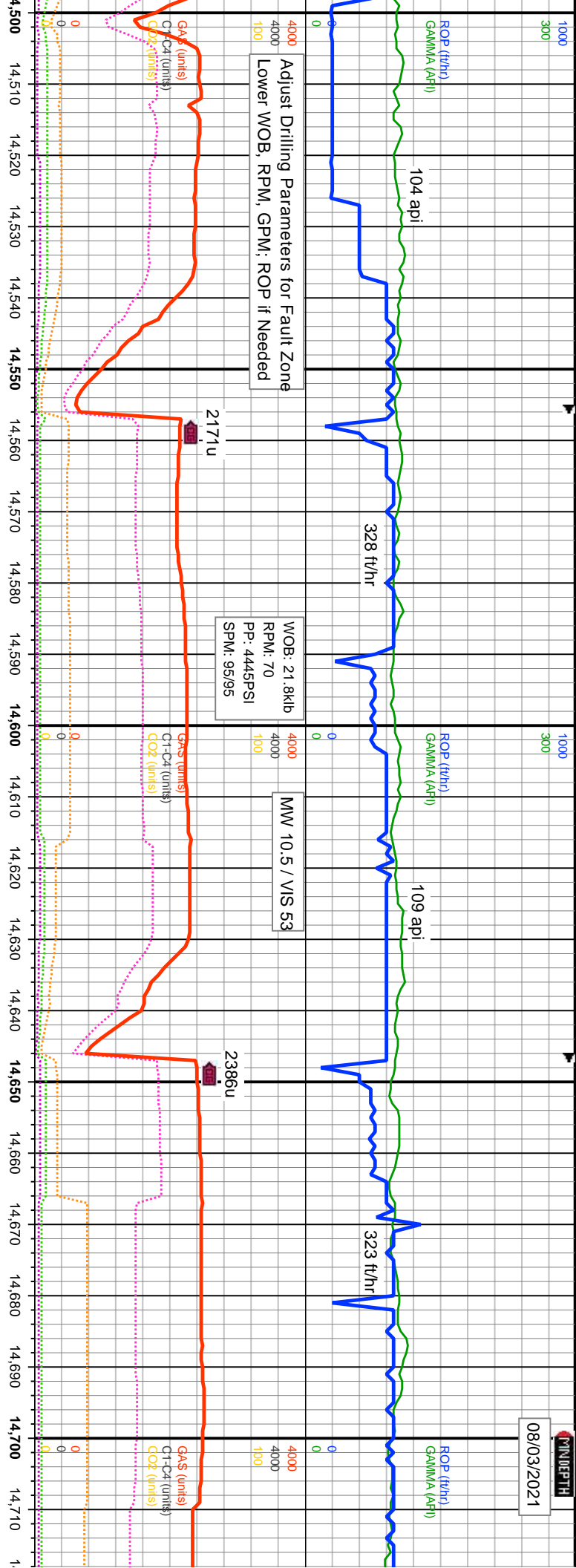
									
<div>6619'</div> <div>3.39°</div> <div>268.46°</div> <div>899.08'</div> <div>995.17'</div>									
<div>6700</div> <div>MD: 13.708'</div> <div>INC: 92.35°</div> <div>AZM: 269.06°</div> <div>TVD: 6.896.96'</div> <div>VS: 5.582.47'</div>									
<div>6700</div> <div>MD: 13.798'</div> <div>INC: 92.35°</div> <div>AZM: 268.71°</div> <div>TVD: 6.893.26'</div> <div>VS: 5.670.76'</div>									
<div>50% CHK: med brn-dk brn, sb blk-y-blk-y, mod sft-frt, mot, rthy, arg, silty ip, grdg to mrlst; 50% MRL: dk gy-dk brn, blk-y-sb blk-y, mod sft-sl frm, rthy, arg, calc, dis pyr lam ip; r bent</div> <div>7100</div>									
<div>55% CHK: med brn-dk brn, sb b 45% MRL: dk gy-dk brn, blk-y-sb bent</div> <div>7100</div>									



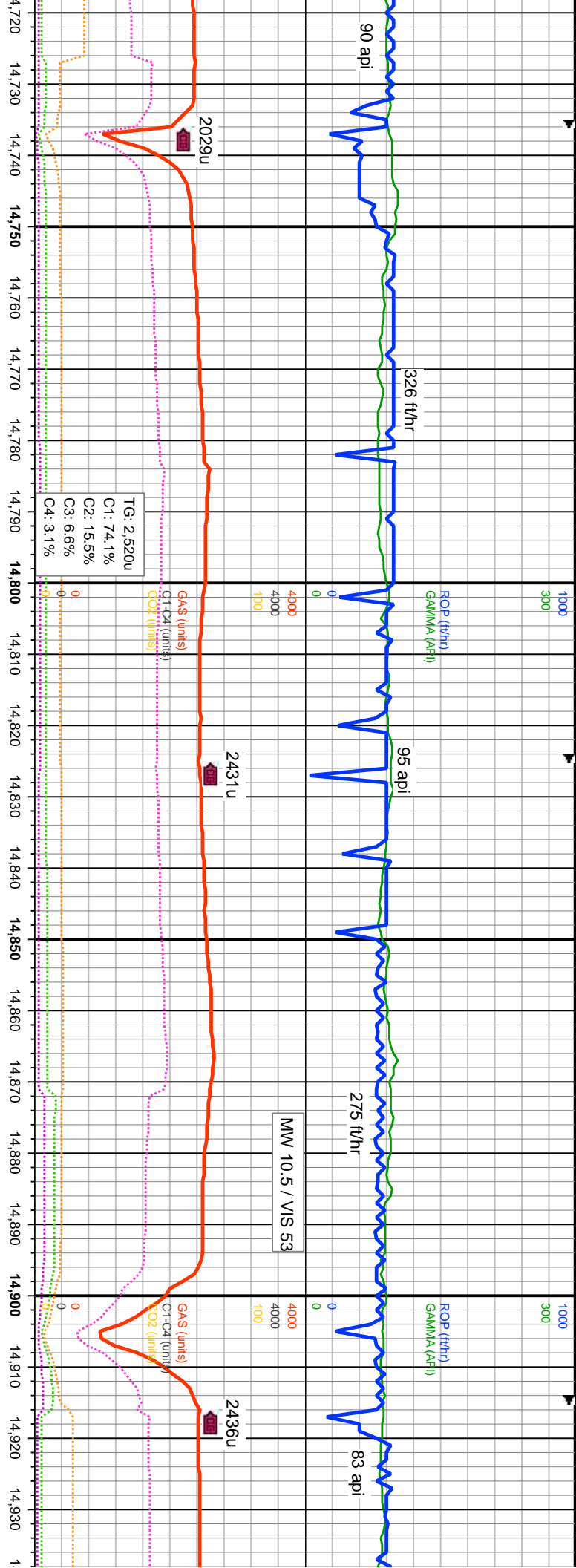
biky-biky, mod sft-fr, mot, rthy, arg, sily ip, grdg to mrlst; biky, mod sft-sl frm, rthy, arg, calc, dis pyr lam ip; r		60% CHK: med brn-dk brn, sb biky-biky, mod sft-fr, mot, rthy, arg, sily ip, grdg to mrlst; r inoc: 40% MRL: dk gy-dk brn, biky-sb biky, mod sft-sl frm, rthy, arg, calc, dis pyr lam ip; r bent, v r rr nodr pyr		60% CHK: med brn-dk brn, sb biky-biky, mod sft-fr, v r inoc: 40% MRL: dk gy-dk brn, biky-sb biky, mod ip; r bent, v r rr nodr pyr	
3850' MD: 29' D/T Fault		MD: 13.887 INC: 90.07° AZM: 269.18° TVD: 6,891.38' VS: 5,758.12'		MD: 13.977 INC: 91.79° AZM: 270.96° TVD: 6,889.92' VS: 5,846.8'	
TVD (ft)		TVD (ft)		TVD (ft)	
6700		6700		6700	
7100		7100		7100	



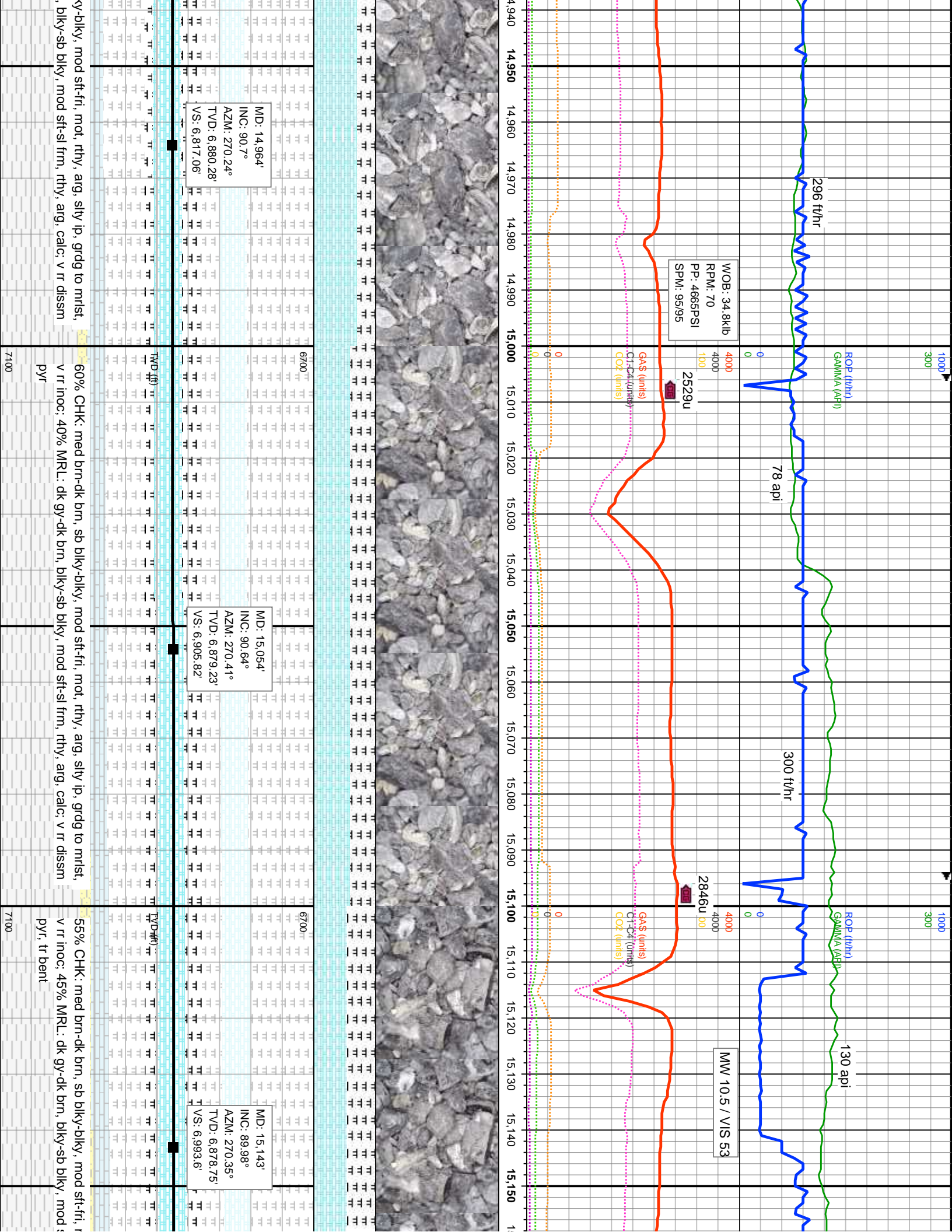


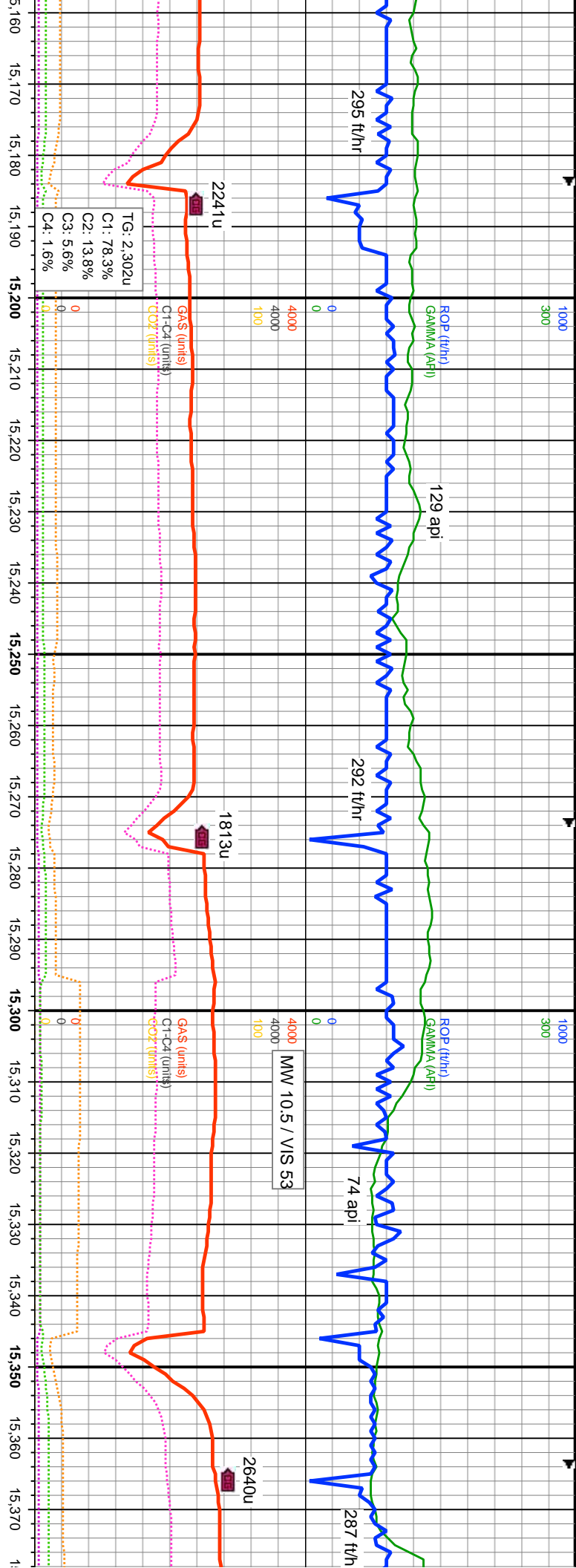


MD: 14.515' INC: 90.71° AZM: 269.13° TVD: 6.885.4' VS: 6.374.88'		MD: 14.605' INC: 90.4° AZM: 269.75° TVD: 6.884.53' VS: 6.463.4'		MD: 14.695' INC: 90.74° AZM: 270.12° TVD: 6.883.64' VS: 6.552.05'	
TVD (ft)		TVD (ft)		TVD (ft)	
65% CHK: med brn-dk brn, sb blk-y-blk-y, mod sft-fr, mot, rthy, arg, silty ip, grgd to mrlst, v rr inoc, 35% MRL: dk gy-dk brn, blk-y-sb blk-y, mod sft-sl frm, rthy, arg, calc, rr bent		70% CHK: med brn-dk brn, sb blk-y-blk-y, mod sft-fr, mot, rthy, arg, silty ip, grgd to mrlst, v rr inoc, 30% MRL: dk gy-dk brn, blk-y-sb blk-y, mod sft-sl frm, rthy, arg, calc, rr bent		70% CHK: med brn-dk brn, sb blk-y-blk-y, mod sft-fr, mot, rthy, arg, silty ip, grgd to mrlst, v rr inoc, 30% MRL: dk gy-dk brn, blk-y-sb blk-y, mod sft-sl frm, rthy, arg, calc, rr bent	
7100		7100		7100	

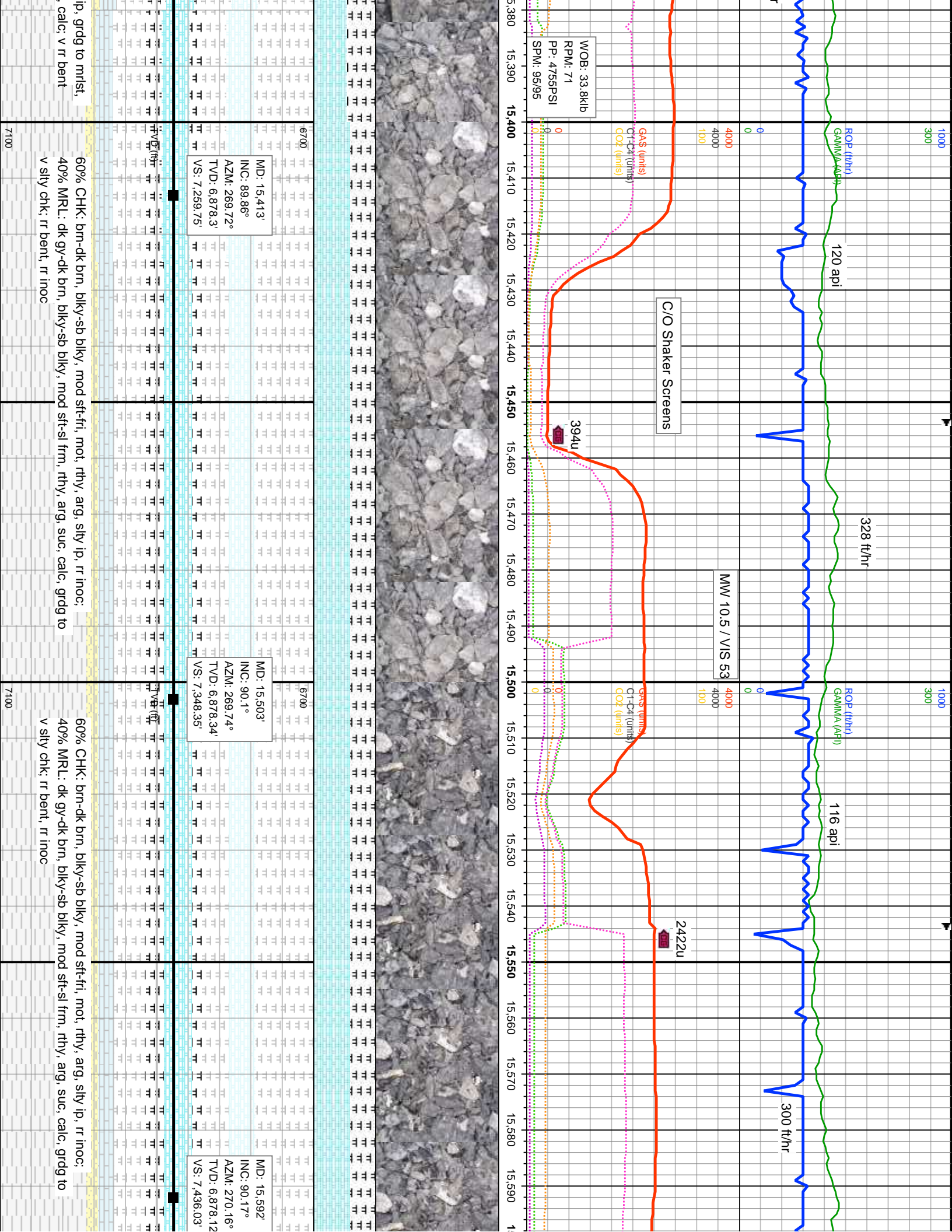


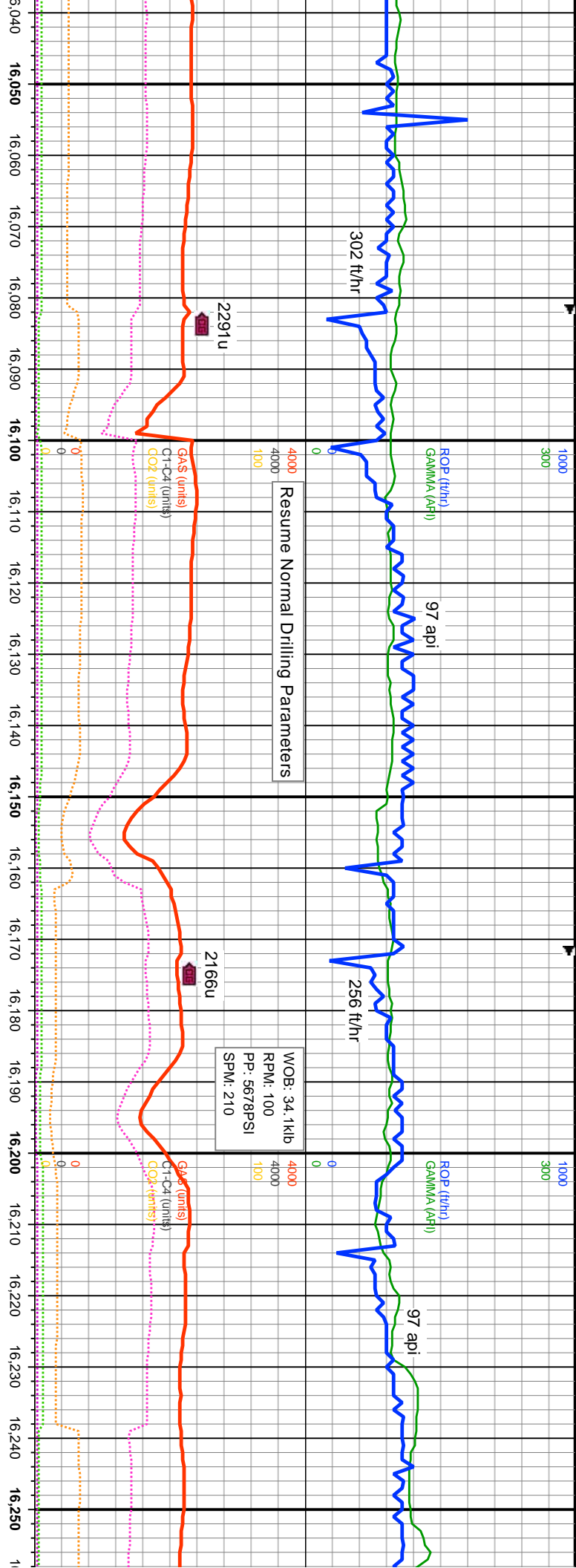
d brn-dk brn, sb blk-y-blky, mod sft-frt, mot, rthy, arg, silty ip, grgd to mrlst, MRL: dk gy-dk brn, blk-y-sb blk-y, mod sft-sl frm, rthy, arg, calc; rr bent		MD: 14.784° INC: 90.77° AZM: 270.24° TVD: 6.882.47' VS: 6.639.77'		70% CHK: med brn-dk brn, sb blk-y-blky, mod sft-frt, mot, rthy, arg, silty ip, grgd to mrlst, v rr inoc; 30% MRL: dk gy-dk brn, blk-y-sb blk-y, mod sft-sl frm, rthy, arg, calc; v rr nodr pyr	
6700	TVD (ft)	6700	TVD (ft)	6700	TVD (ft)
7100		7100		7100	



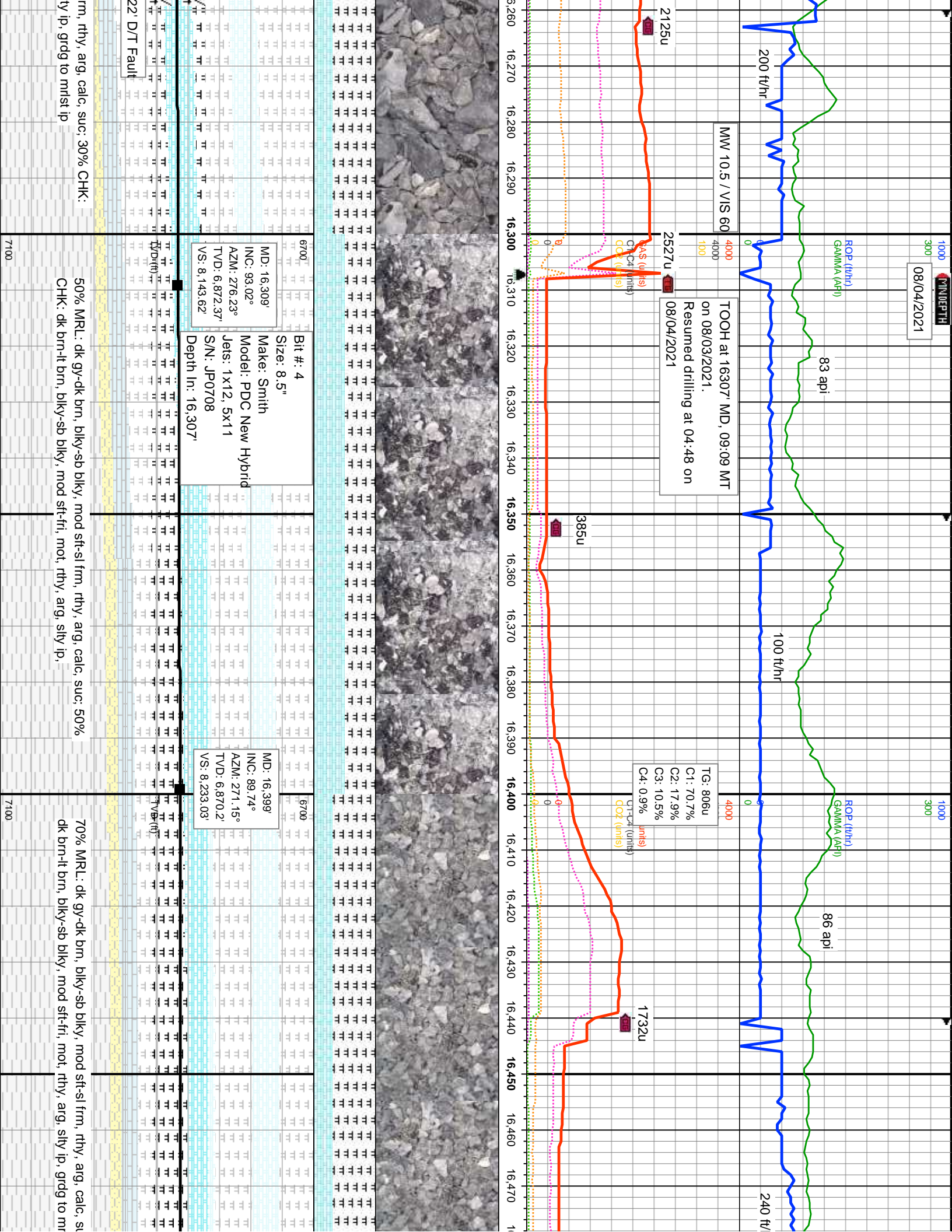


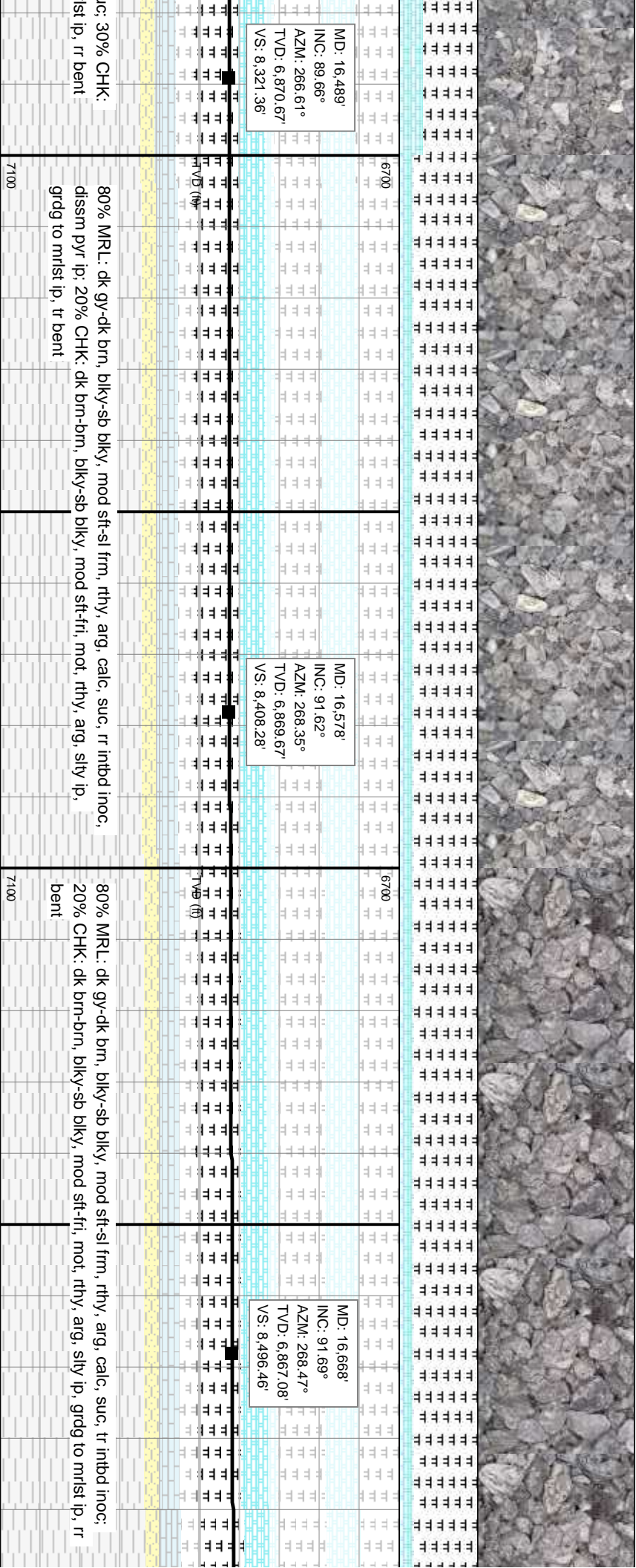
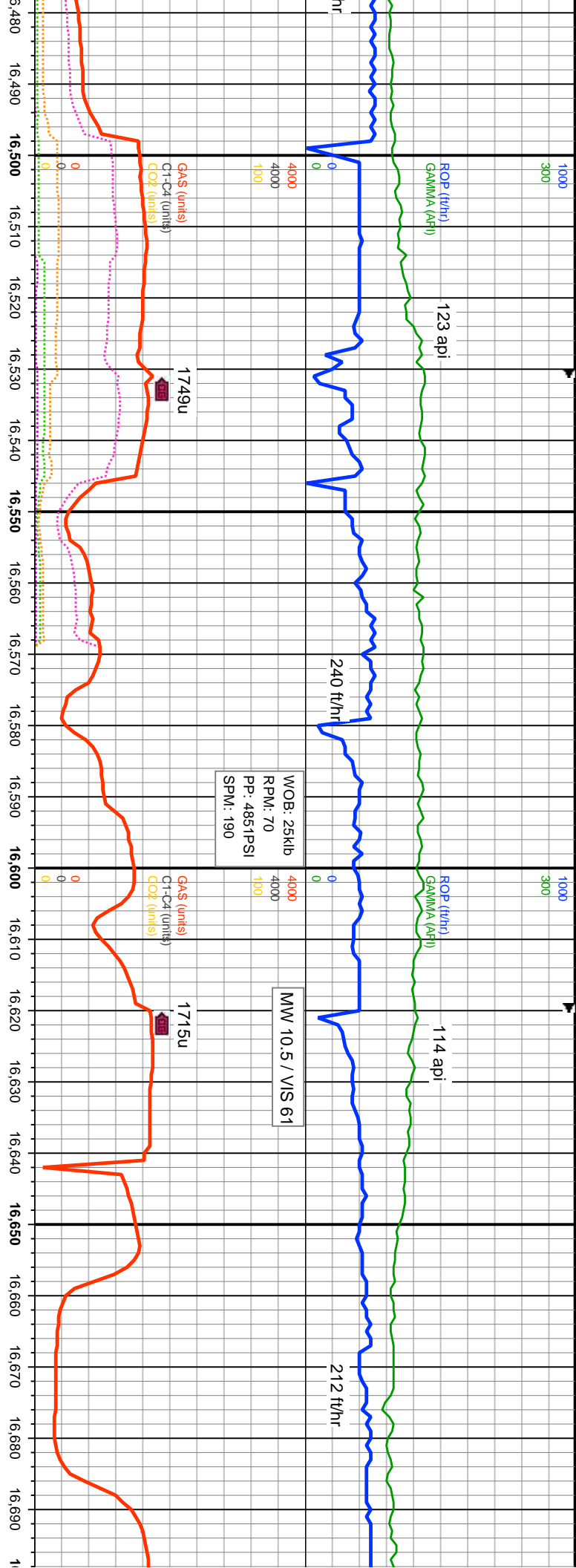
not, rthy, arg, silty ip, grgd to mrlst, sft-sl frm, rthy, arg, calc; v rr diss		60% CHK: med brn-dk brn, sb blk-y-blk, mod sft-fr, mot, rthy, arg, silty ip, grgd to mrlst, v rr inoc; 40% MRL: dk gy-dk brn, blk-y-sb blk, mod sft-sl frm, rthy, arg, calc; v rr bent		55% CHK: med brn-dk brn, sb blk-y-blk, mod sft-fr, mot, rthy, arg, silty v rr inoc; 45% MRL: dk gy-dk brn, blk-y-sb blk, mod sft-sl frm, rthy, arg	
6700'		6700'		6700'	
MD: 15.233'		MD: 15.233'		MD: 15.323'	
INC: 90.26°		INC: 90.26°		INC: 90.11°	
AZM: 270.31°		AZM: 270.31°		AZM: 270.15°	
TVD: 6,878.56'		TVD: 6,878.56'		TVD: 6,878.28'	
VS: 7.082.36'		VS: 7.082.36'		VS: 7.171.1'	

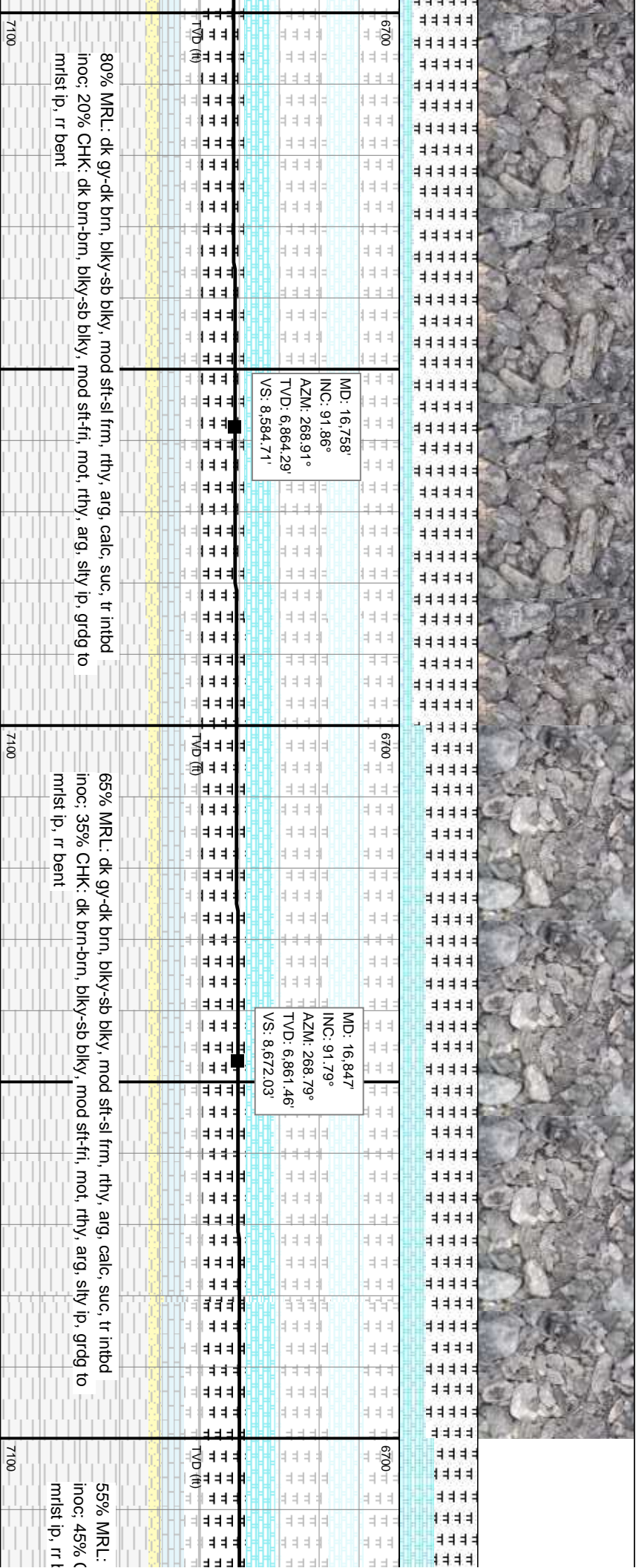
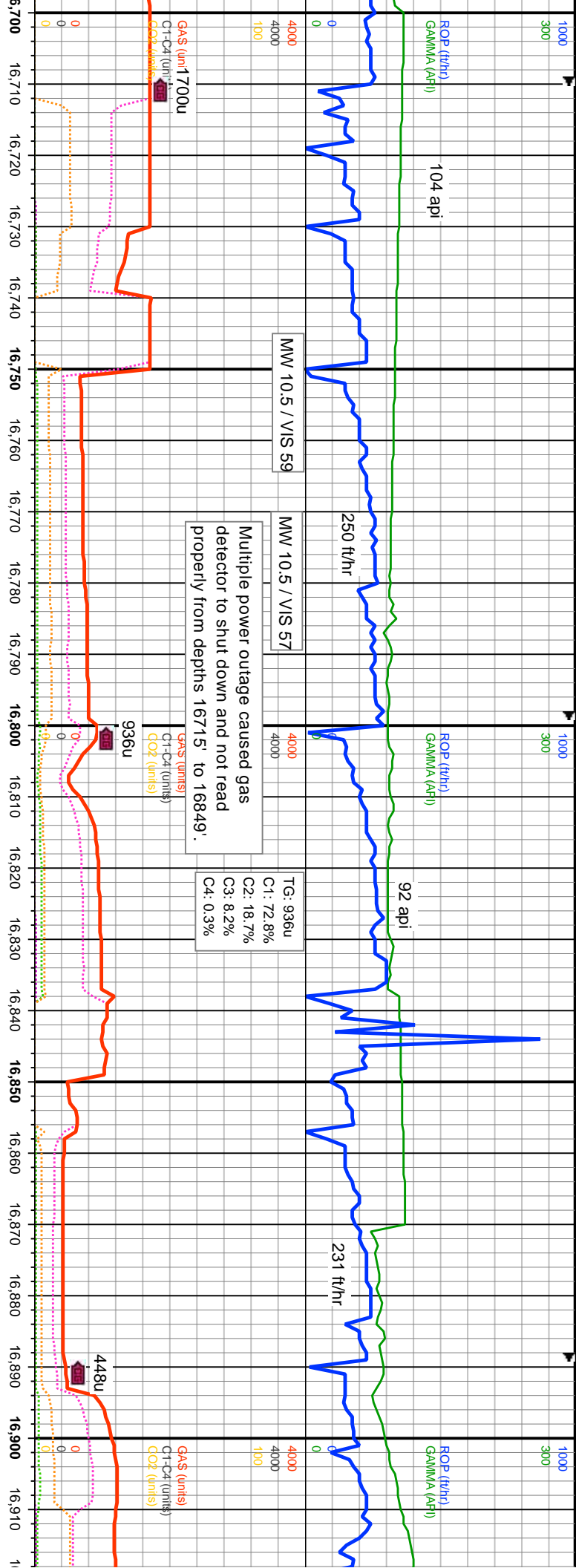


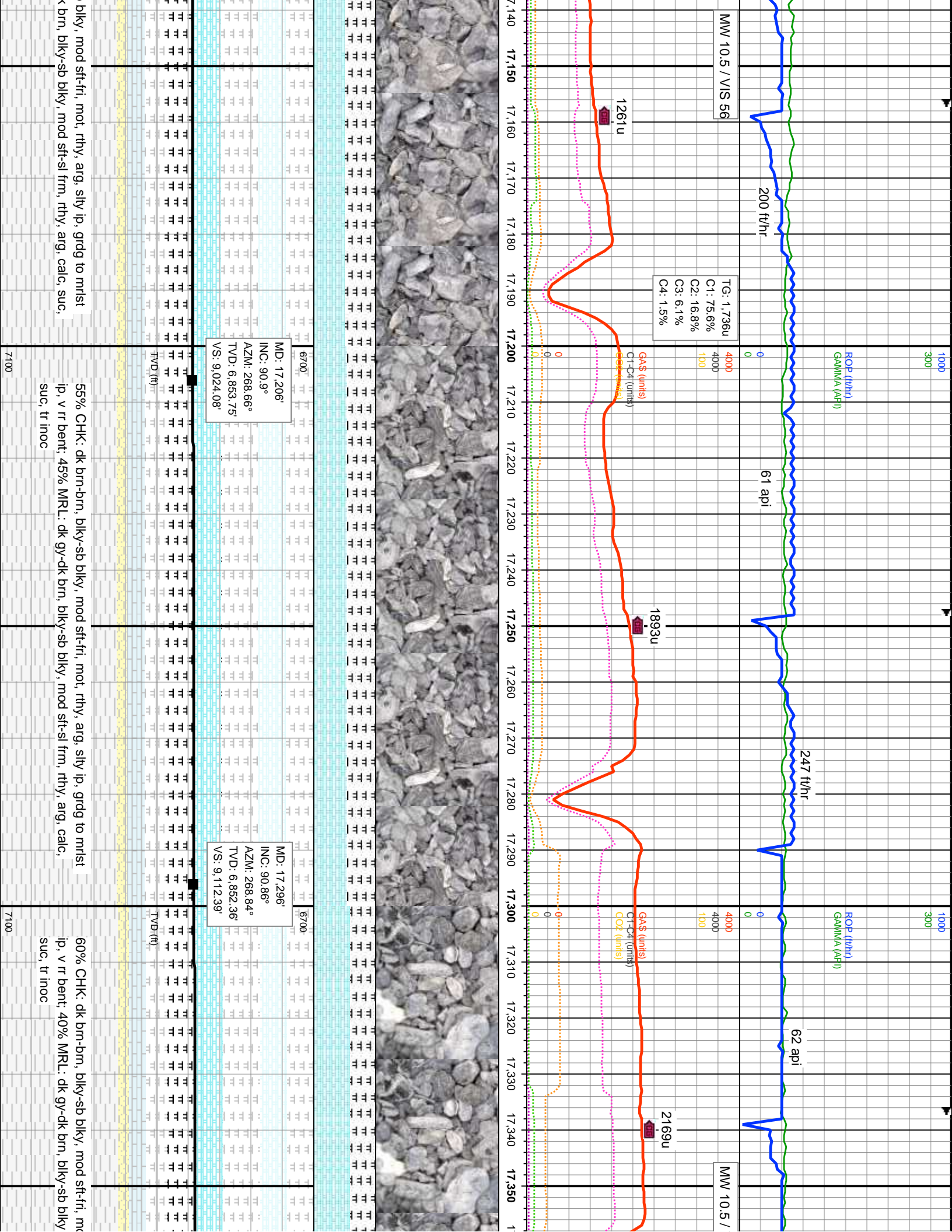


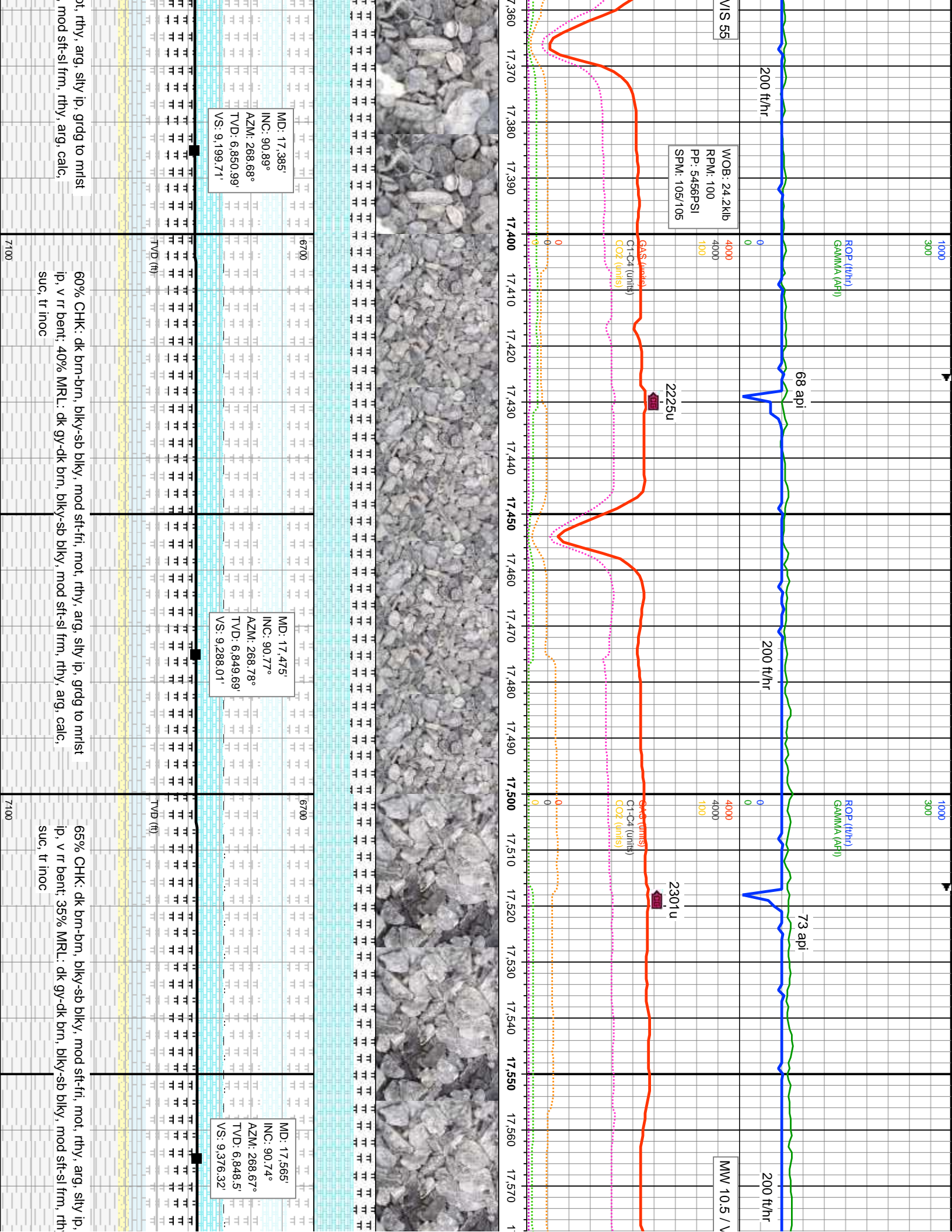
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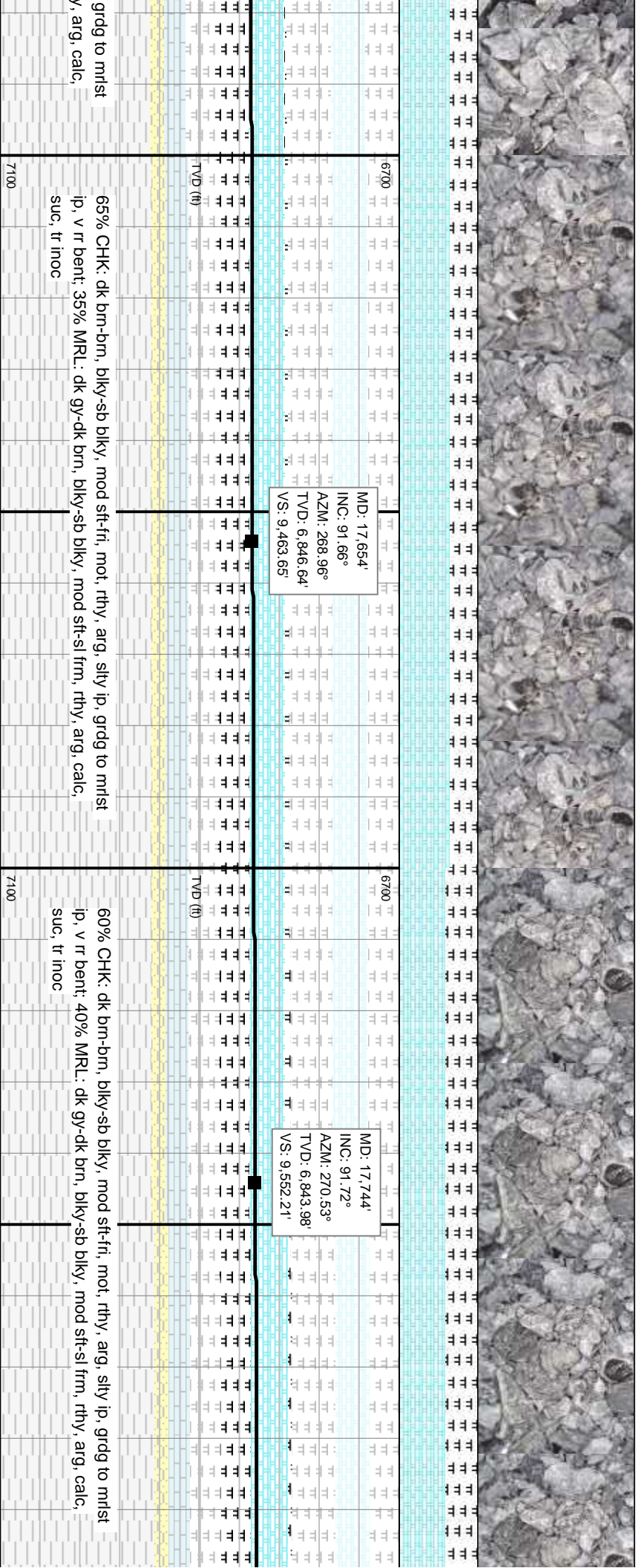
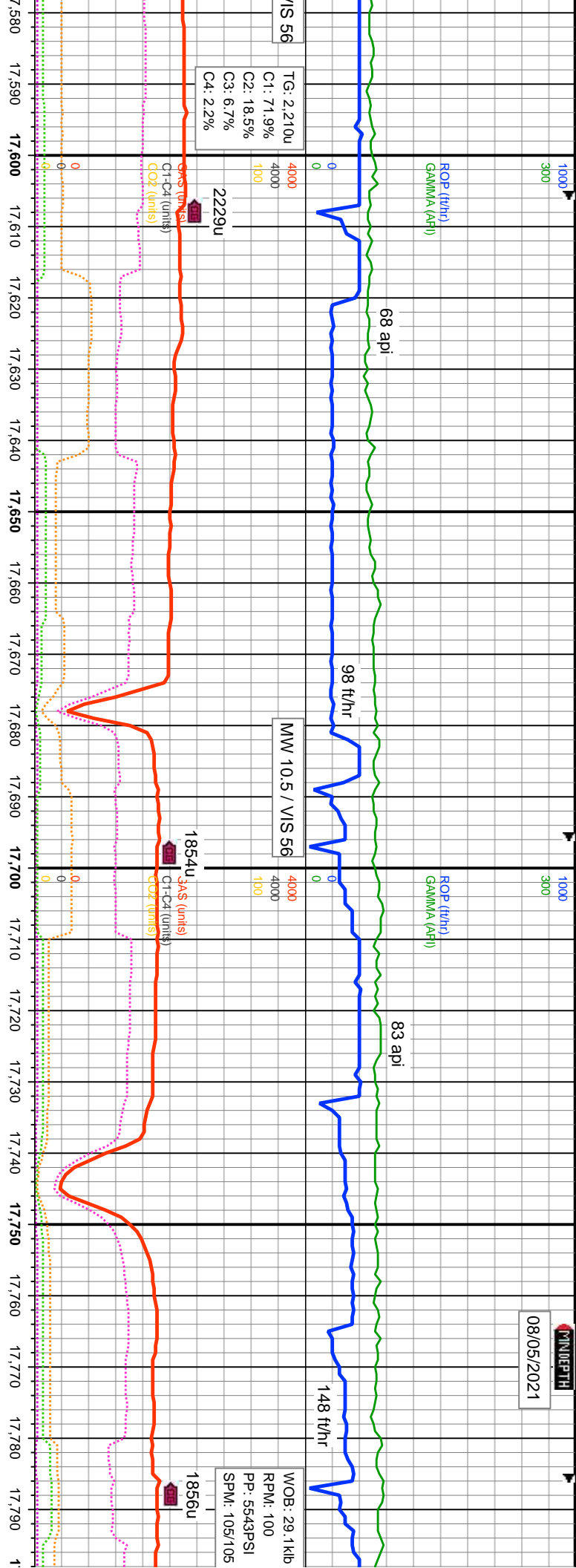


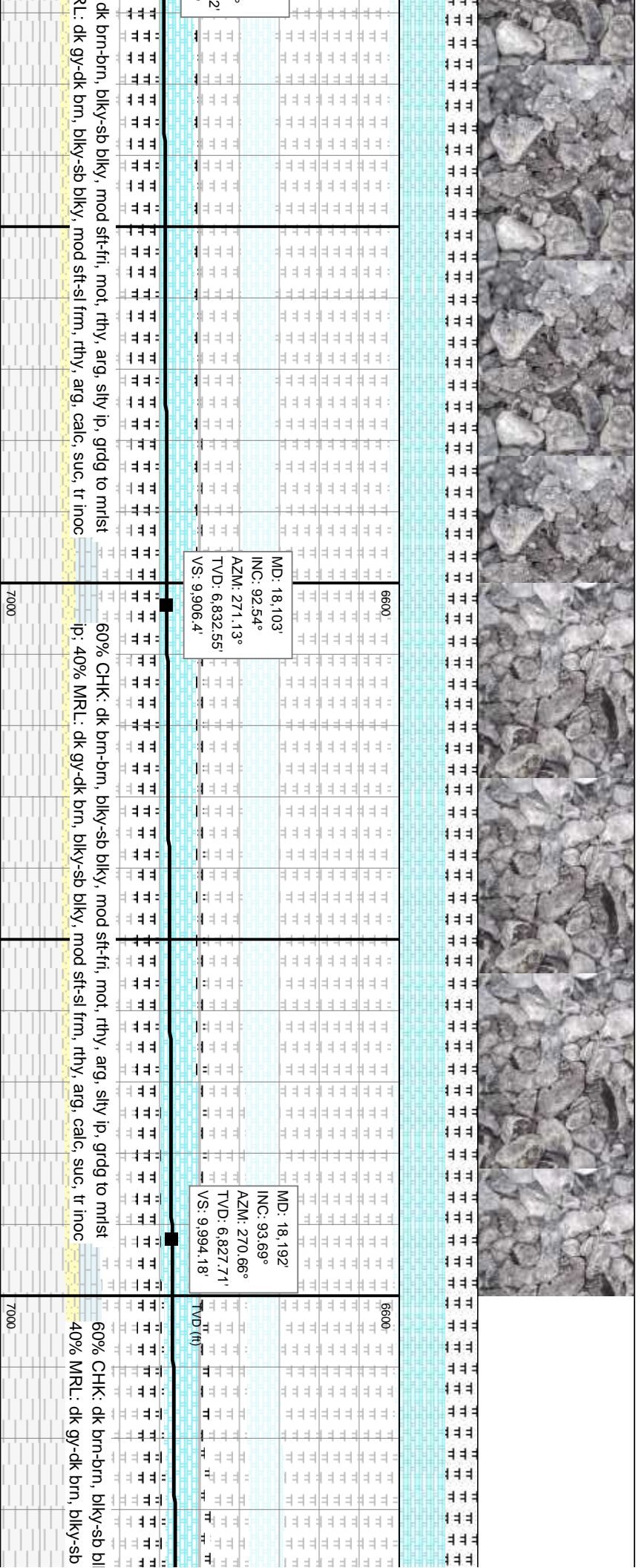
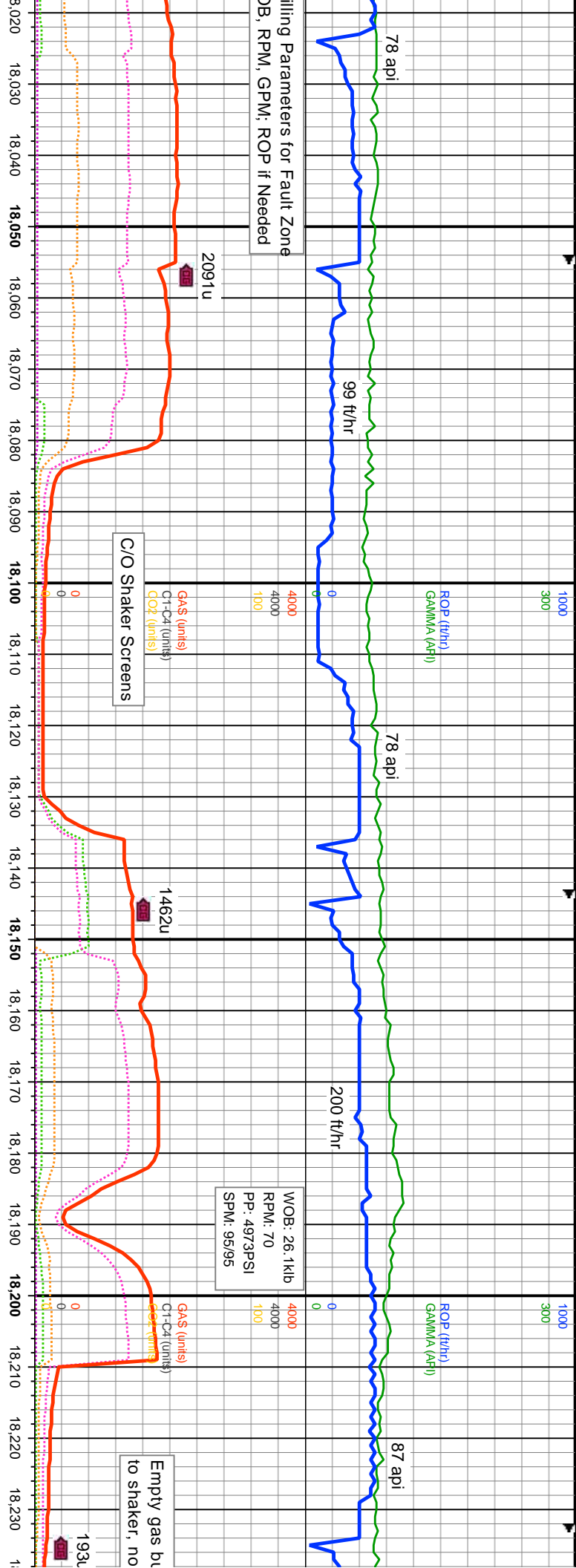


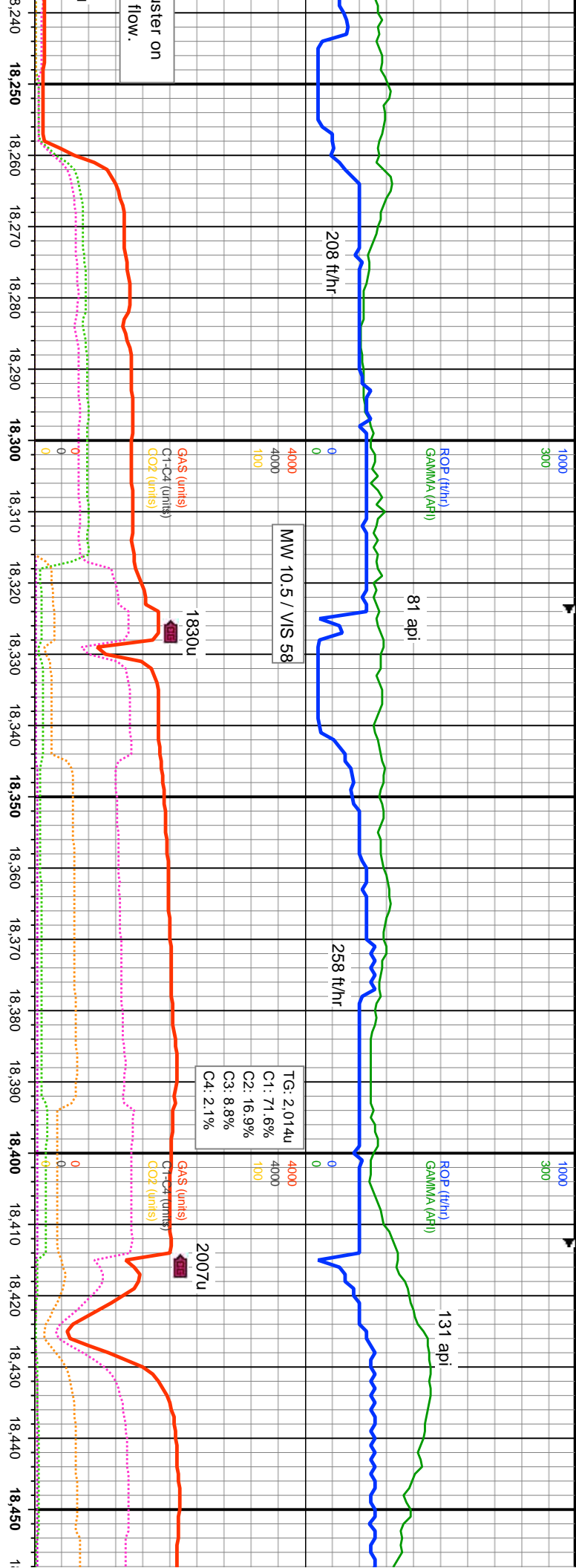








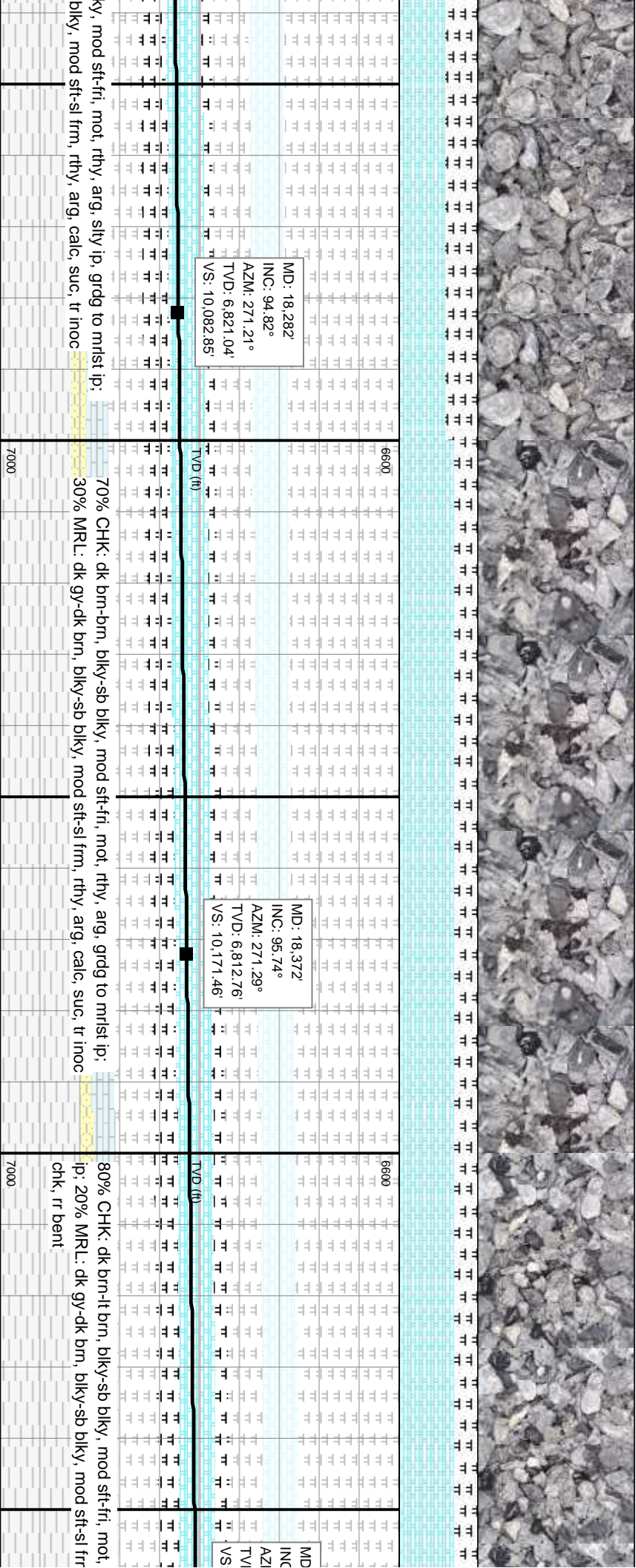


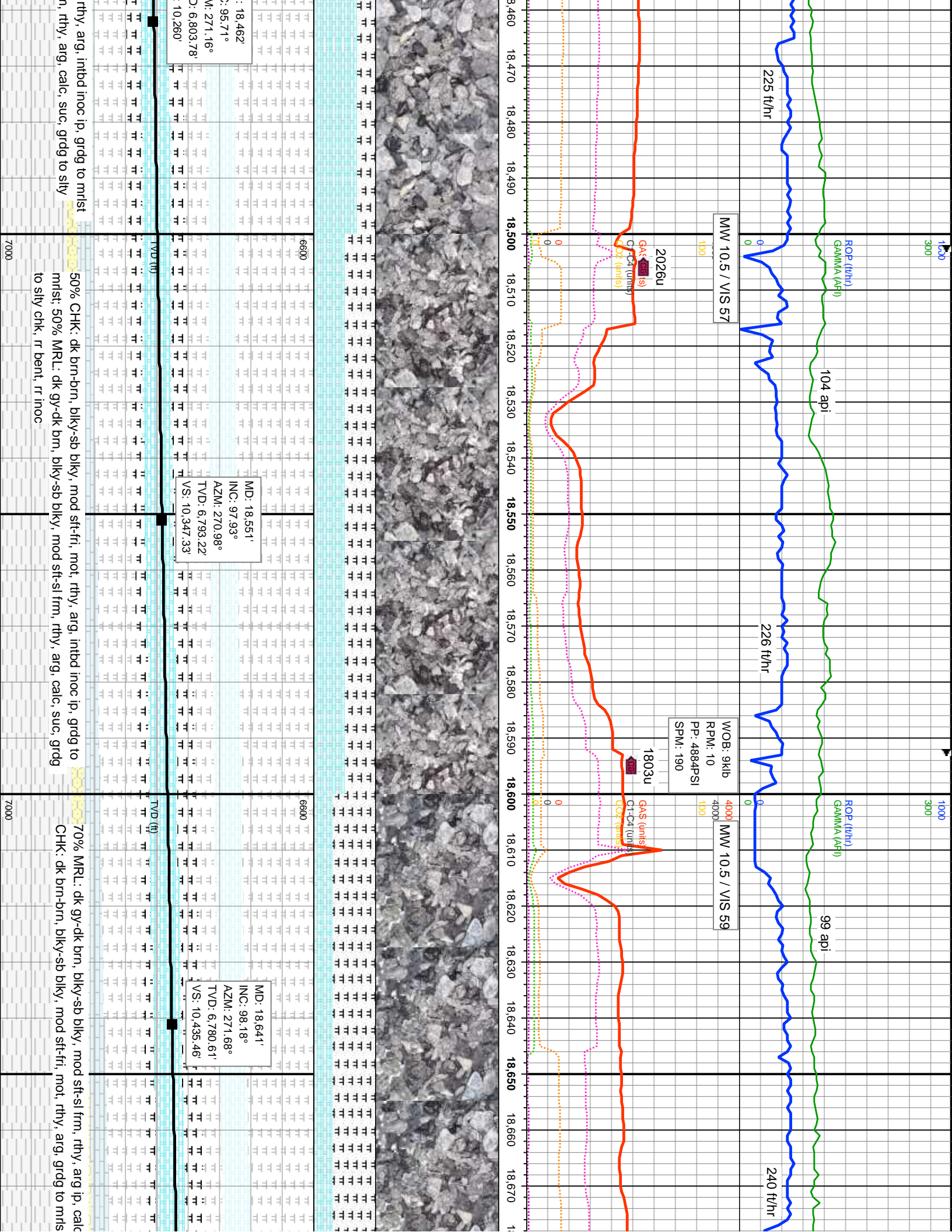


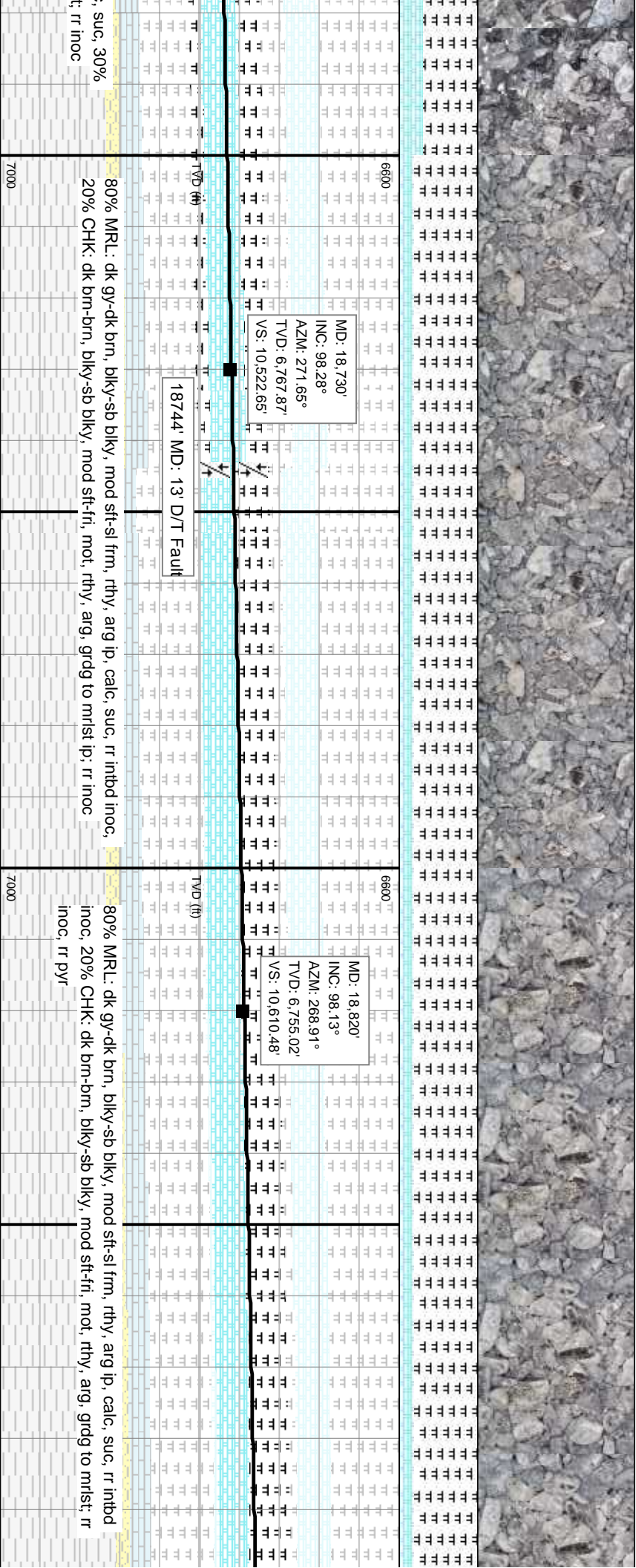
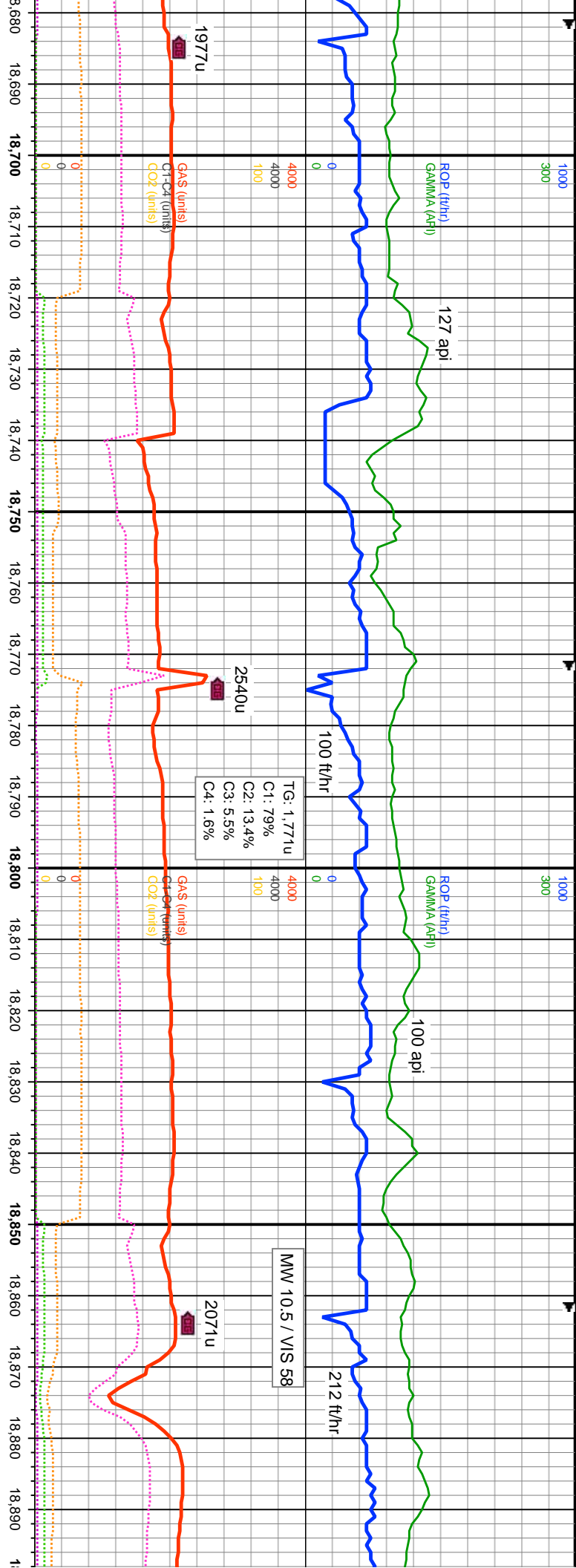
MD: 18,282
INC: 94.82°
AZM: 271.21°
TVD: 6,821.04'
VS: 10,082.85'

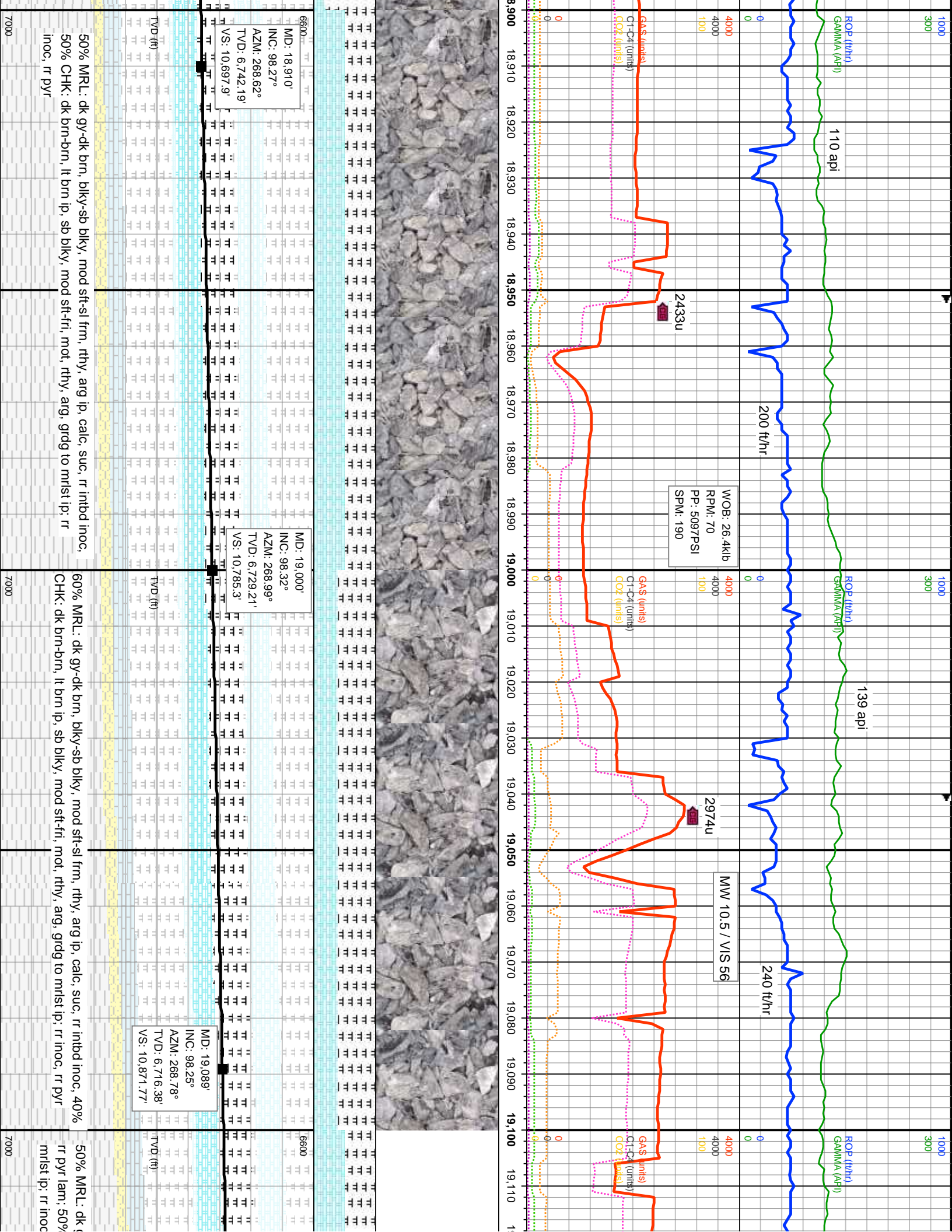
MD: 18,372
INC: 95.74°
AZM: 271.29°
TVD: 6,812.76'
VS: 10,171.46'

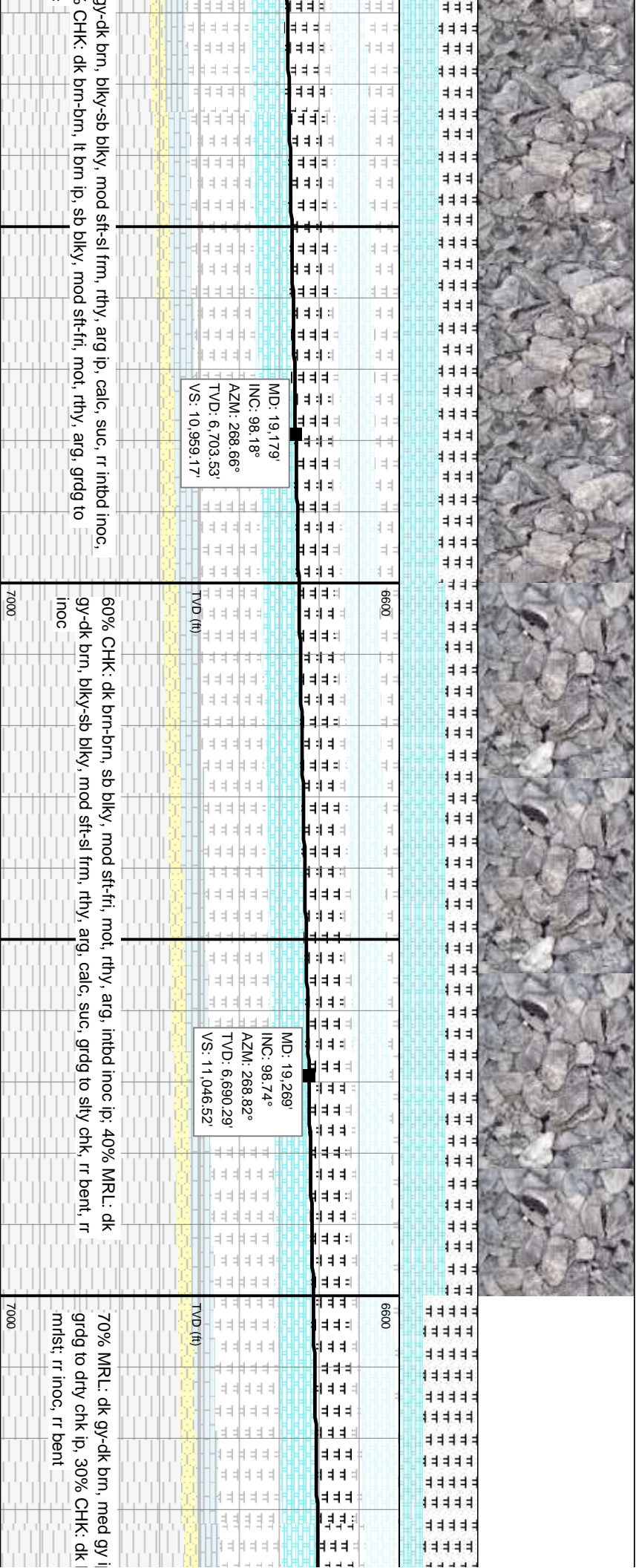
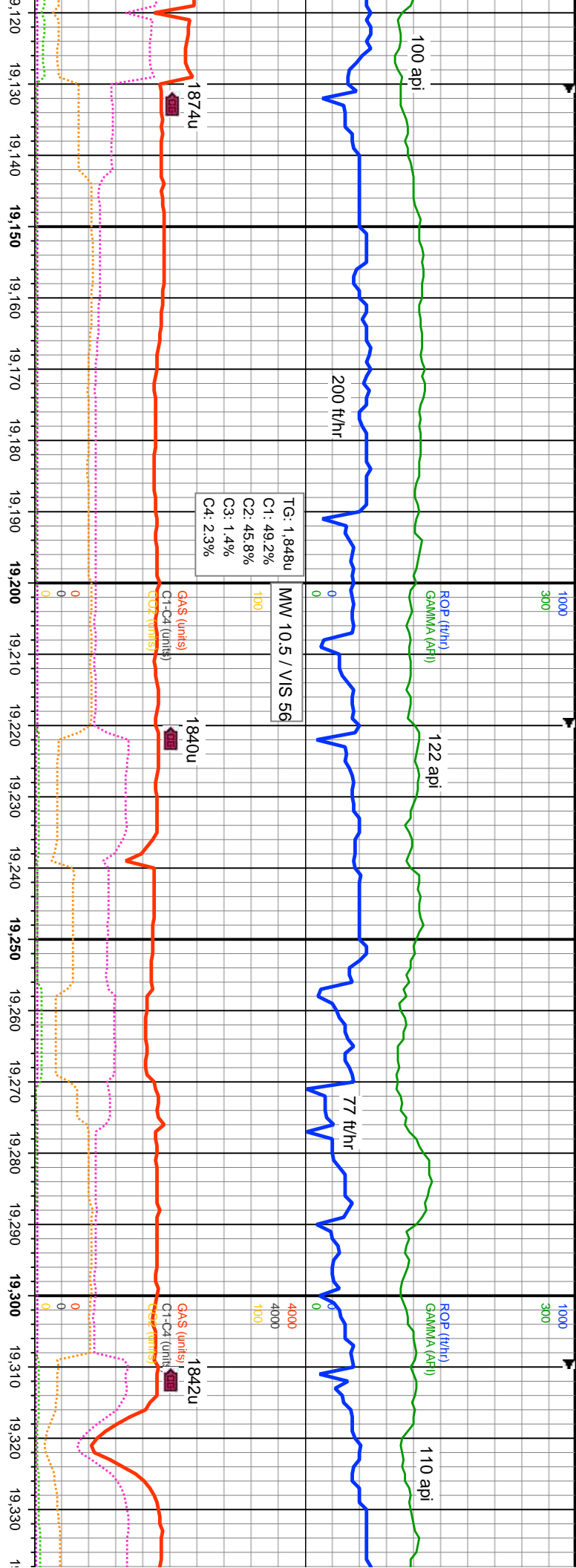
TG: 2.014u
C1: 71.6%
C2: 16.9%
C3: 8.8%
C4: 2.1%

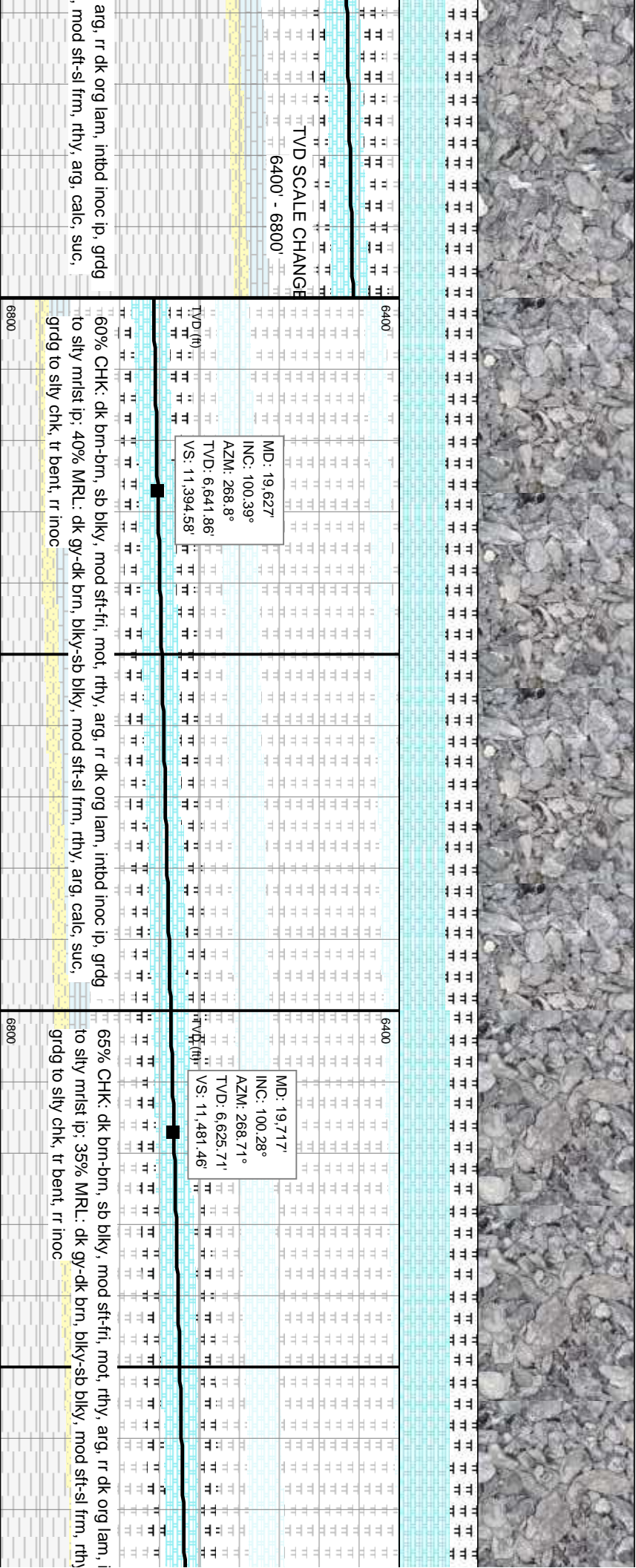
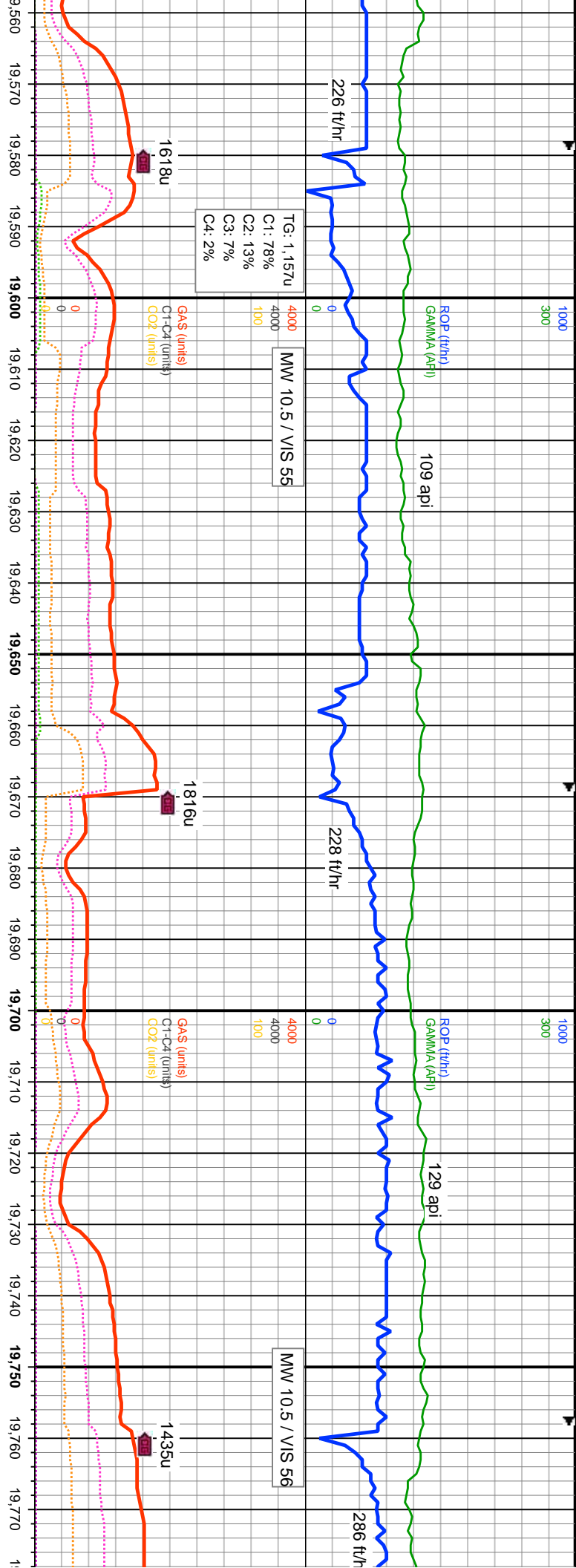


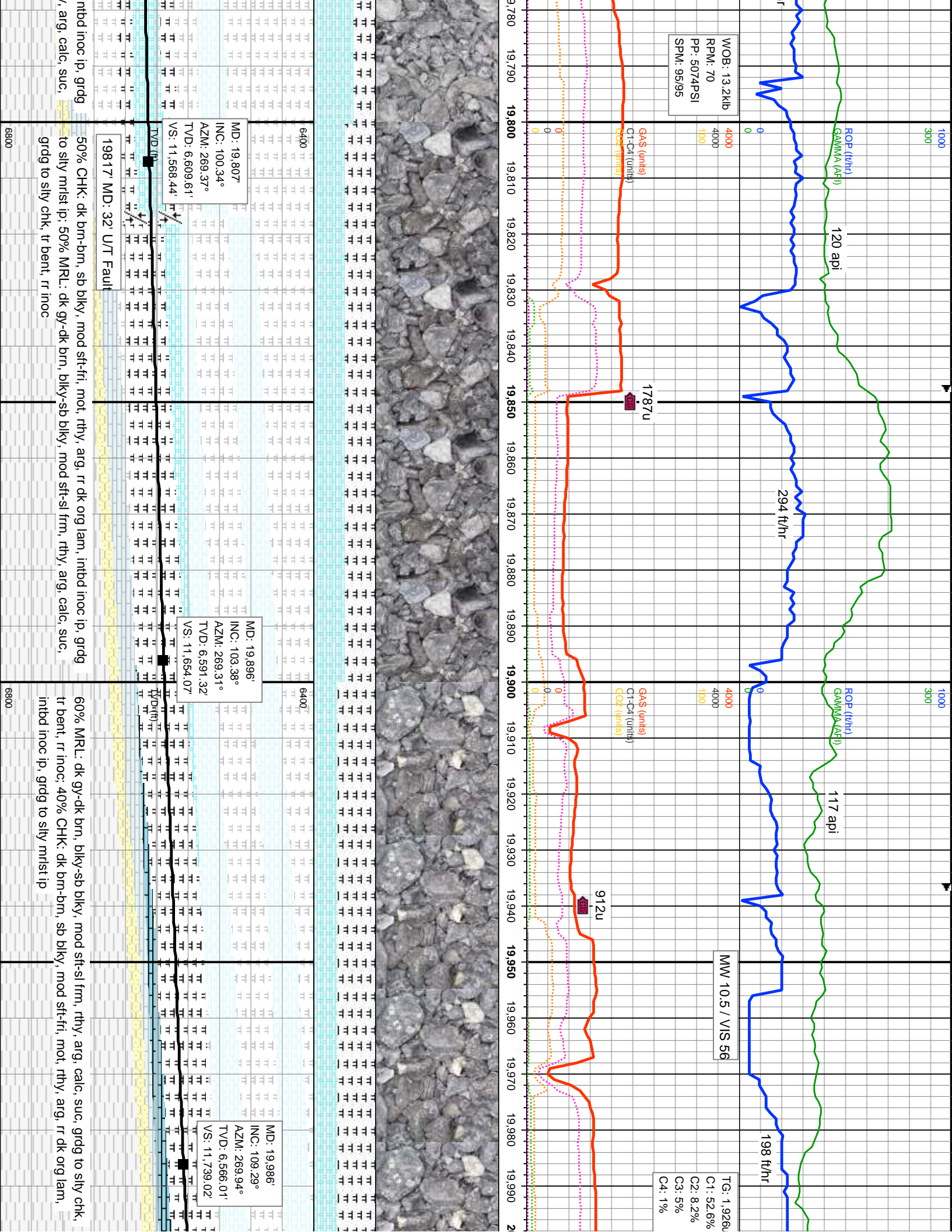


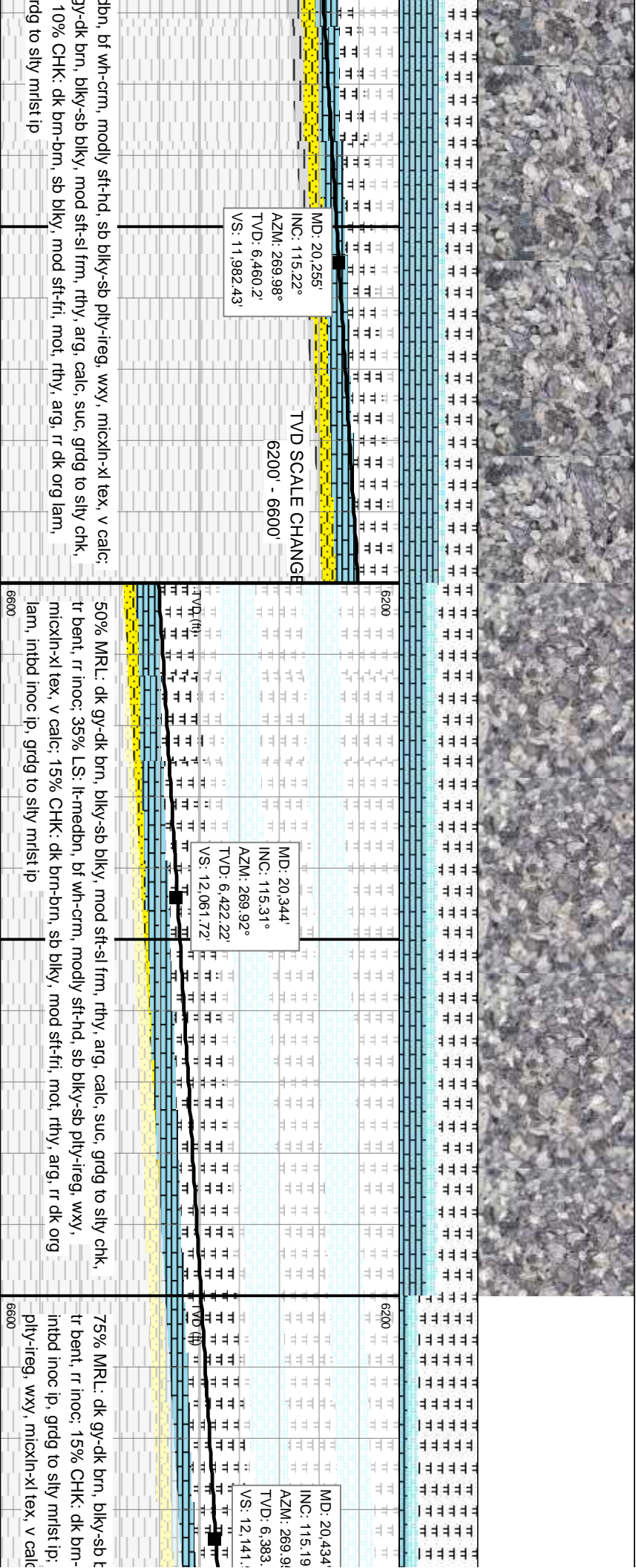
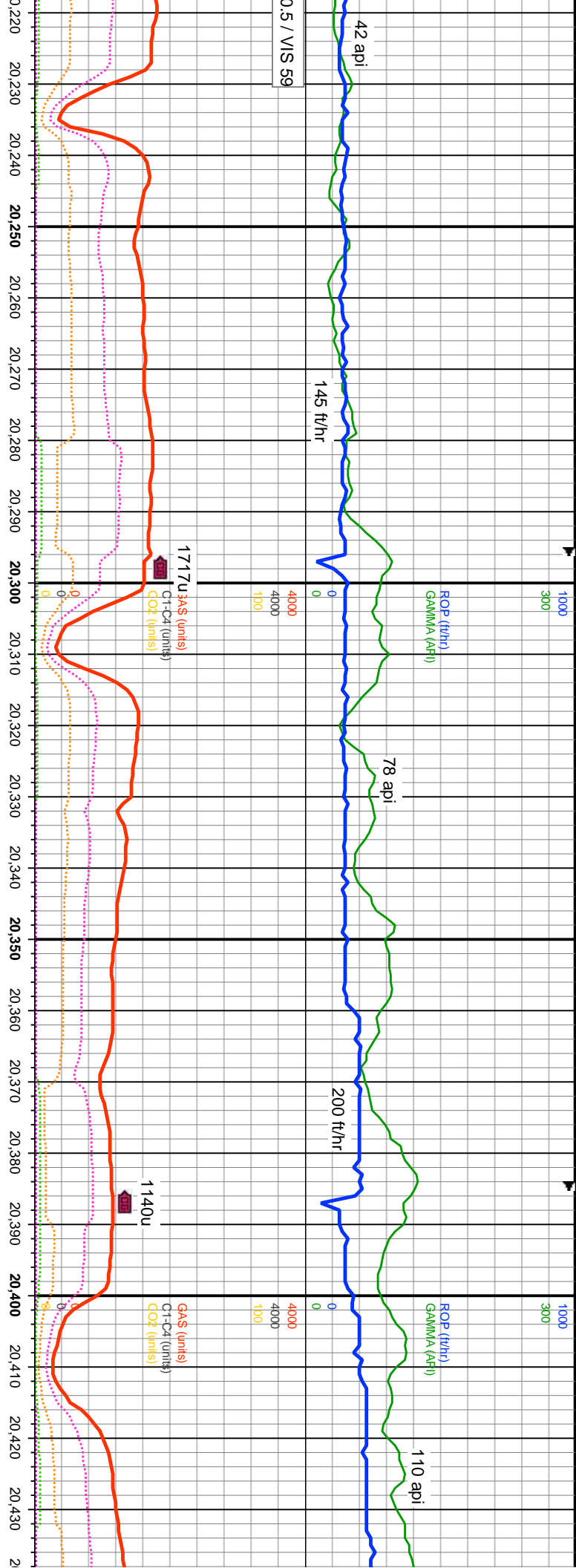




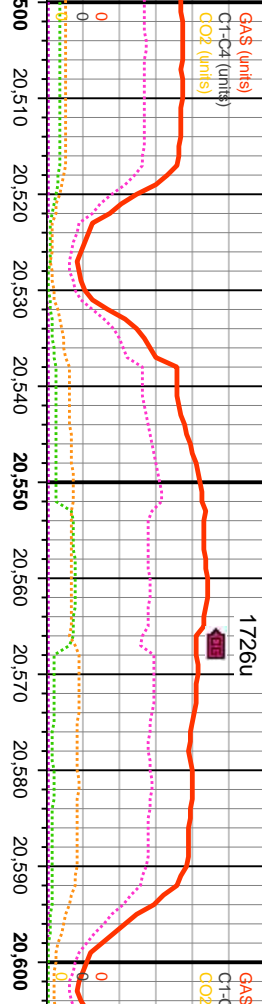
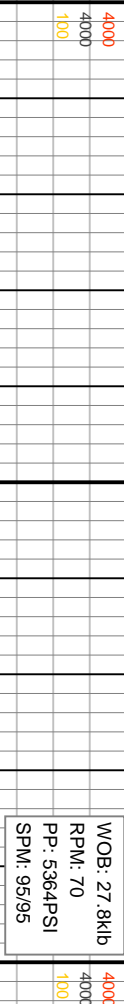
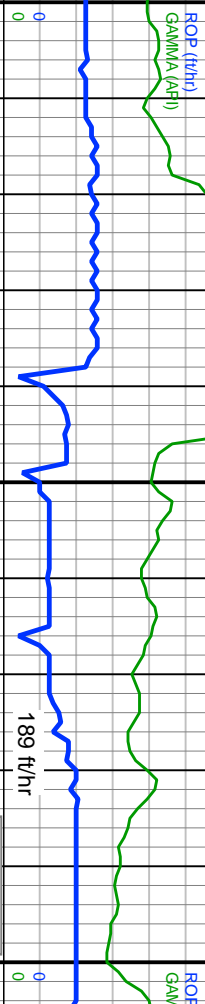




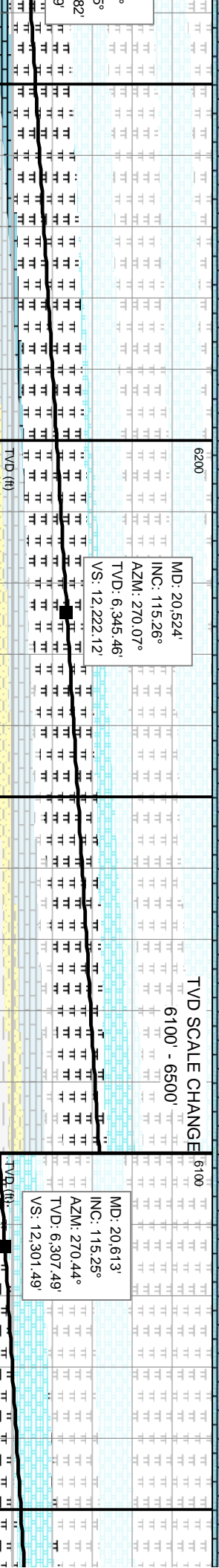
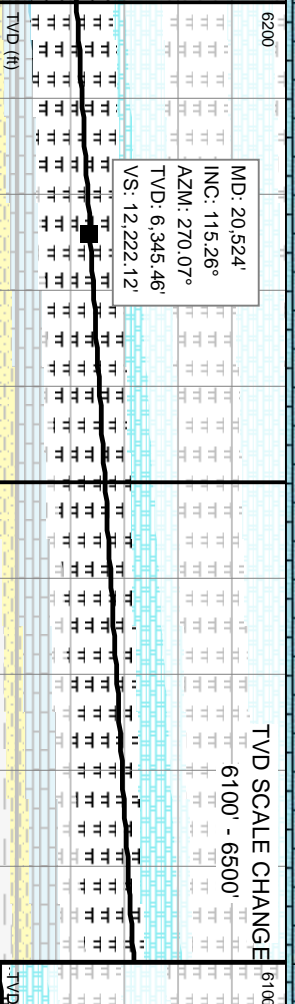
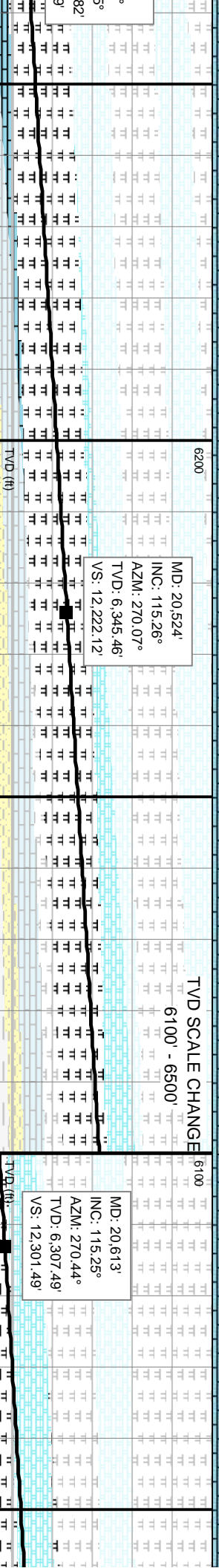




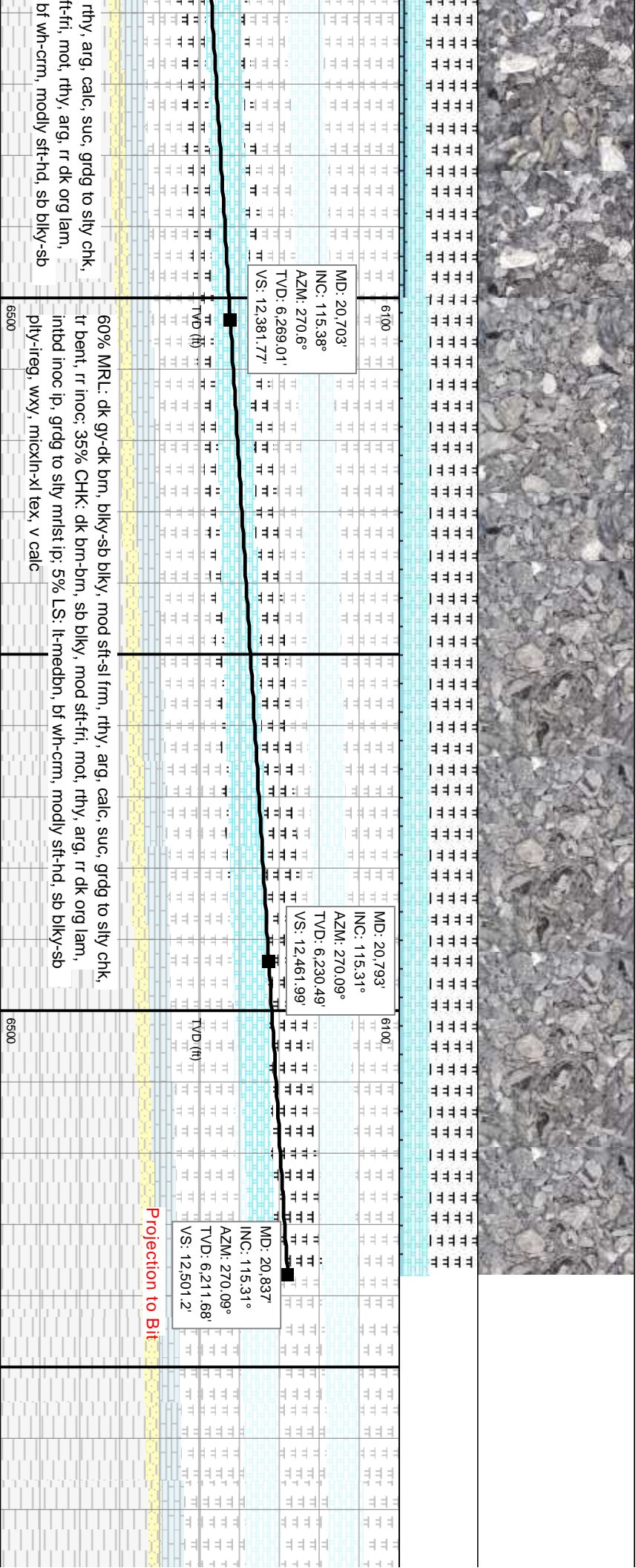
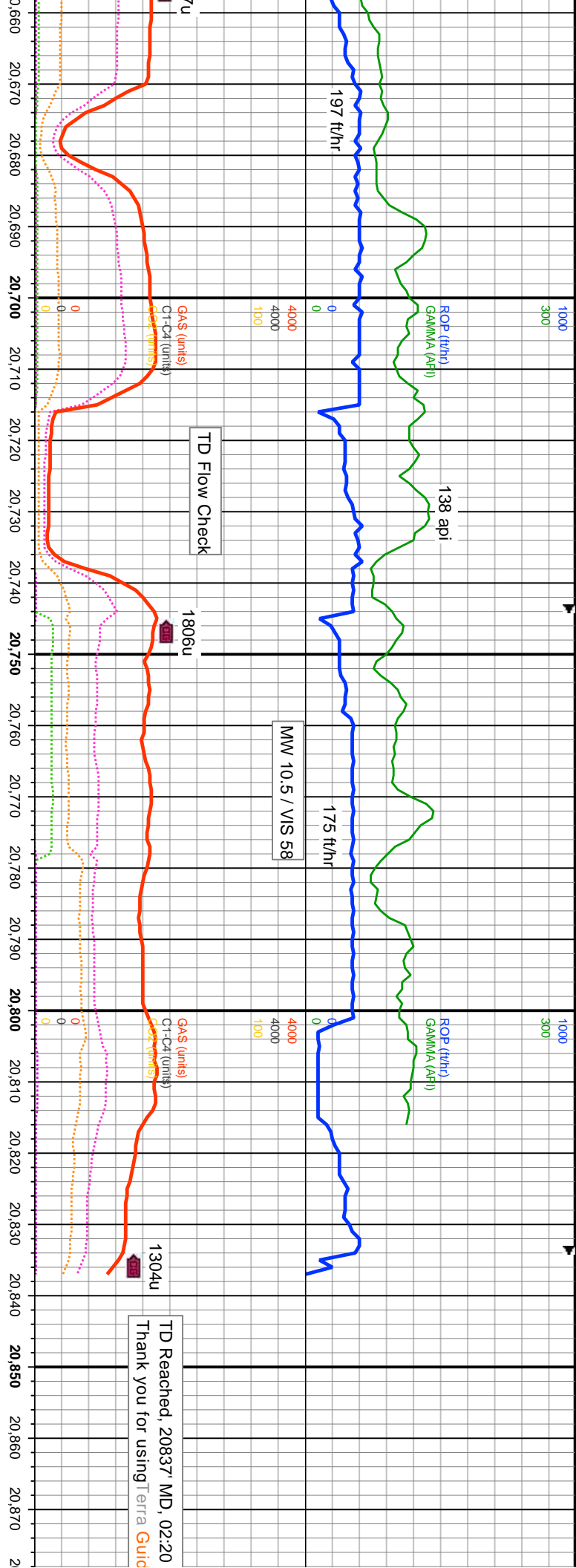
TIMEDEPTH
08/06/2021



20,440 20,450 20,460 20,470 20,480 20,490 20,500 20,510 20,520 20,530 20,540 20,550 20,560 20,570 20,580 20,590 20,600 20,610 20,620 20,630 20,640 20,650 2



6200 6100 6000
65% MRL: dk gy-dk brn, blyk-sb blyk, mod sft-sl frm, rthy, arg, calc, suc, grdg to silty chk, tr bent, rr inoc, 20% CHK: dk brn-brn, sb blyk, mod sft-frt, mot, rthy, arg, rr dk org lam, intbd inoc ip, grdg to silty mstst ip, 10% LS: lt-medbn, bf wh-crm, modly sft-hd, sb blyk-sb pty-ireg, wxy, micxn-xl tex, v calc



MT, 08/06/2021
ance, LLC.

20,880 20,890 20,900

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