



Scale: 5" / 100'  
Measured Depth Log

**Well Name** Postle IC 09-299HN

**Location** SWNW Section 11, T3N, R68W

**State** COLORADO

**Country** USA

**API Number** 05-123-46041-0000

**Geographic Region** DJ BASIN

**County** WELD

**Rig Number** PRECISION 460

**AFE #** 18DC0010

**Field** WATTENBERG

**Ground Elevation** 4977'

**Logged Interval** 6000' MD To 18533' MD

**Formation** NIOBRARA C CHALK

**Type of Drilling Fluid** OIL BASED MUD

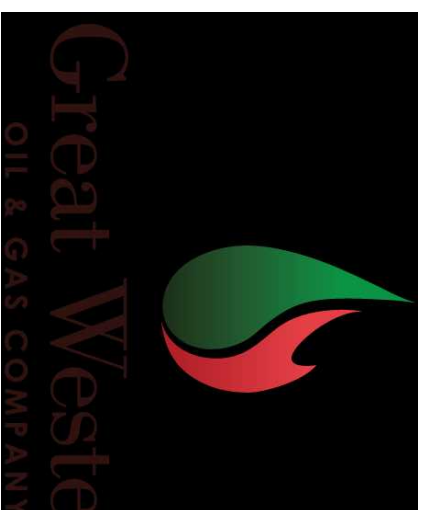
**K.B. Elevation** 4997'

**Total Depth** 18533'

### 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

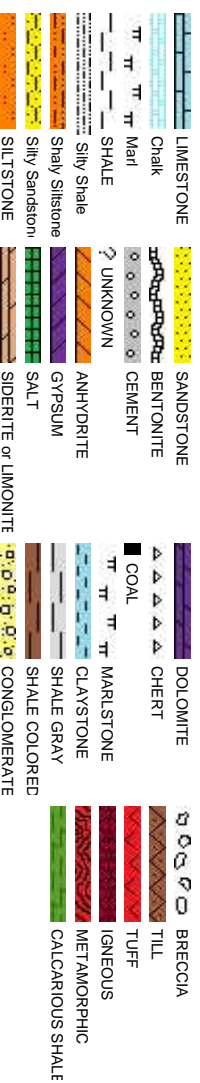
**Address** 67 W. Floyd Ave. Ste 105  
Englewood, CO 80110  
(970) 260-5408



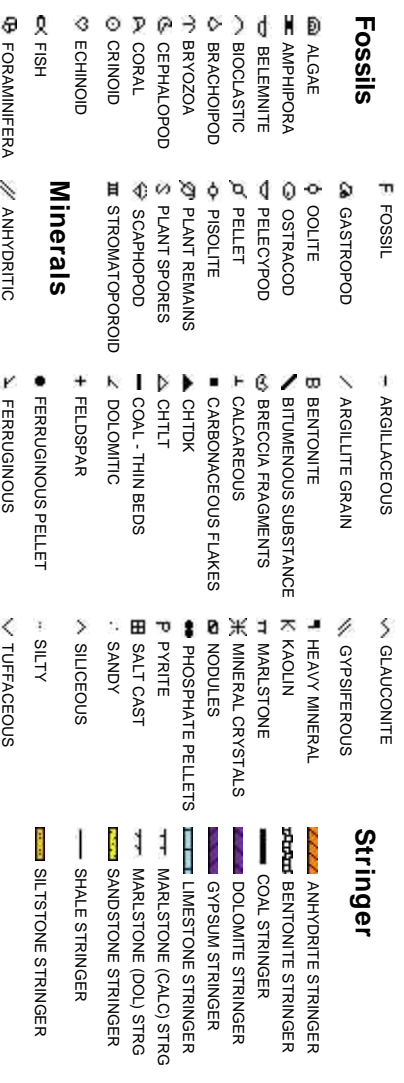
## Other

Mudlog Start: 03/06/2018  
Mudlog End: 03/08/2018

## Rock Types



## Accessories



- ORGANIC
- PINPOINT
- VUGGY
- EVEN
- QUESTIONABLE
- SPOTTED STAINING
- BIT

- ### Engineering
- CASING
  - CONNECTION (LEFT)
  - CONNECTION (RIGHT)
  - CONNECTION GAS
  - CORE - LOST
  - CORE - RECOVERED
  - DST INTERVAL
  - FAULT
  - MOLDIC

- ### Porosity
- E EARTHY
  - F FENESTRAL
  - F FRACTURE

- ### Oil Show
- OIL SHOW

- ### Stringer
- - 
  - 
  - 
  - 
  - 
  - 
  - 
  - 
  - 
  -

# Other Symbols

 FORMATION TOP

L LITHOGRAPHIC

 GAS SHOW


## Rounding

 MX MICROXLN

 MINDEPTH MIN DEPTH


 A ANGULAR

 MS MUDSTONE

 NORMAL FAULT

 R ROUNDED

 PS PACKSTONE

 OIL SHOW


 S SUBANG

 WS WACKESTONE

 OVERTURNED STRATA

 F SUBBRND


## 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

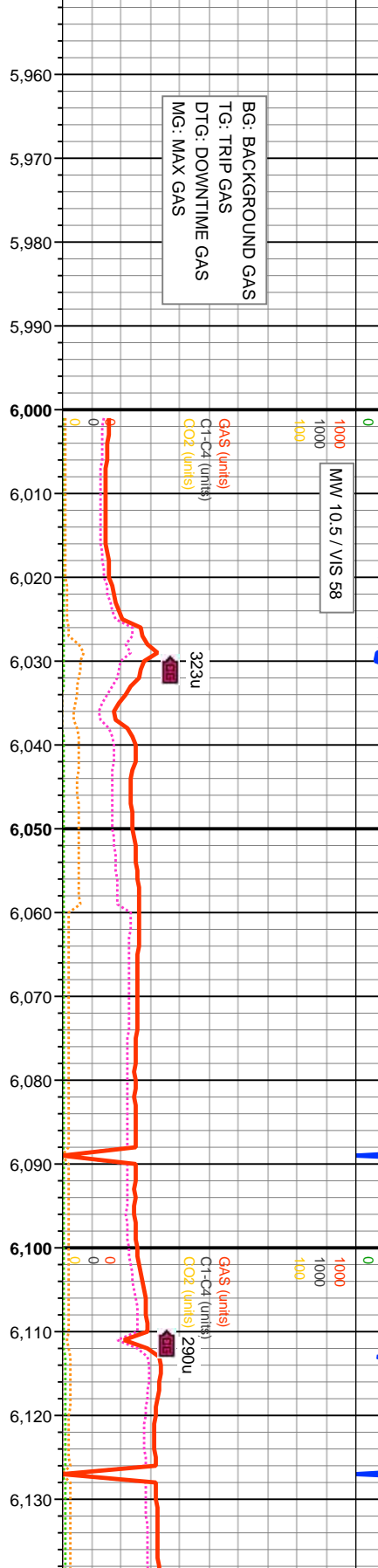
 WIRELINE TESTED - RT

 GS GRAINSTONE

TERRA GUIDANCE  
 BEGAN LOGGING @ 08:25 MST 03/06/2018  
 BLOODHOUND GAS CHROMATOGRAPH #5053  
 100' Sample Collection

ROP  
 ROP ———  
 Gamma ———

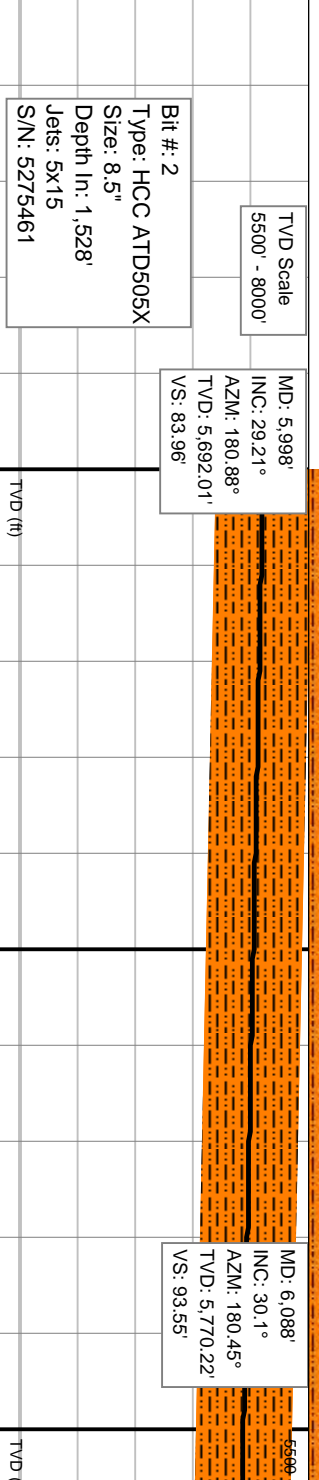
GAPS IN GAMMA DATA DUE  
 TO HIGH RATES OF PENETRATION



Images



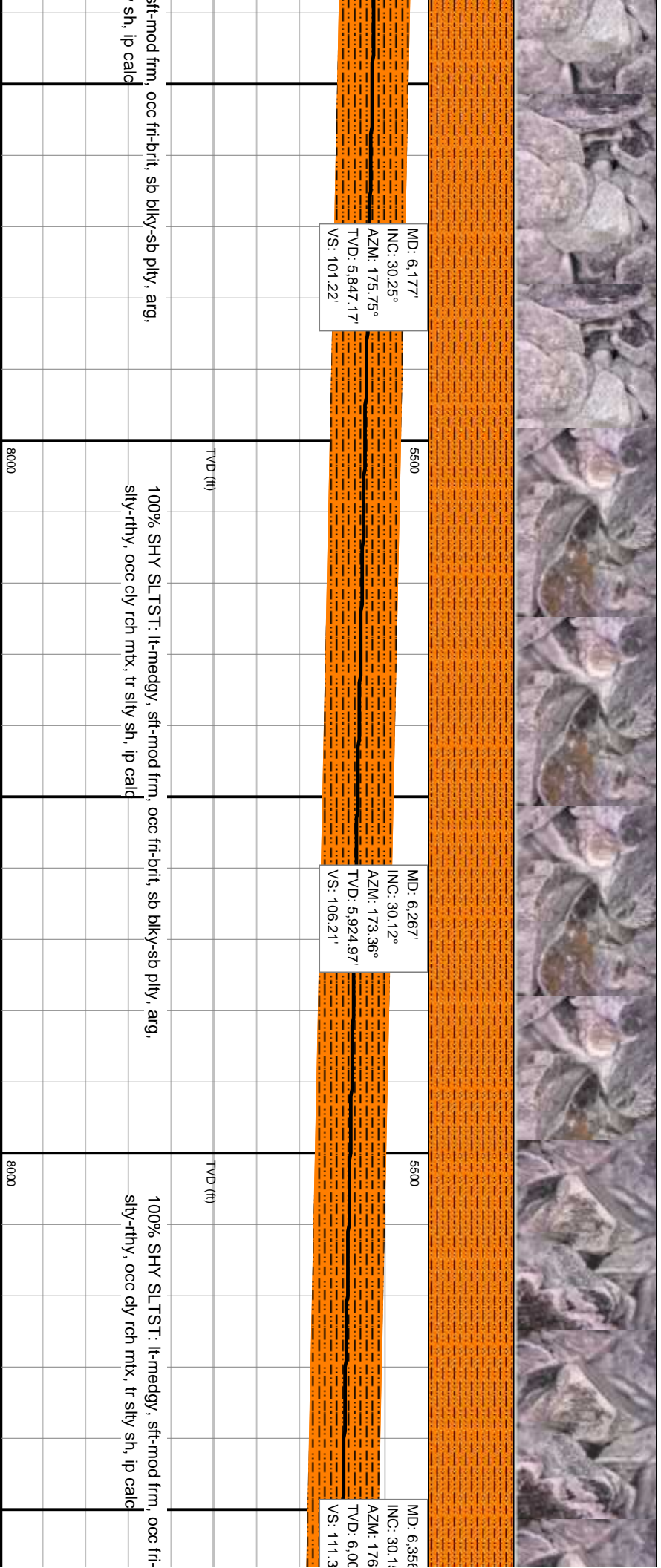
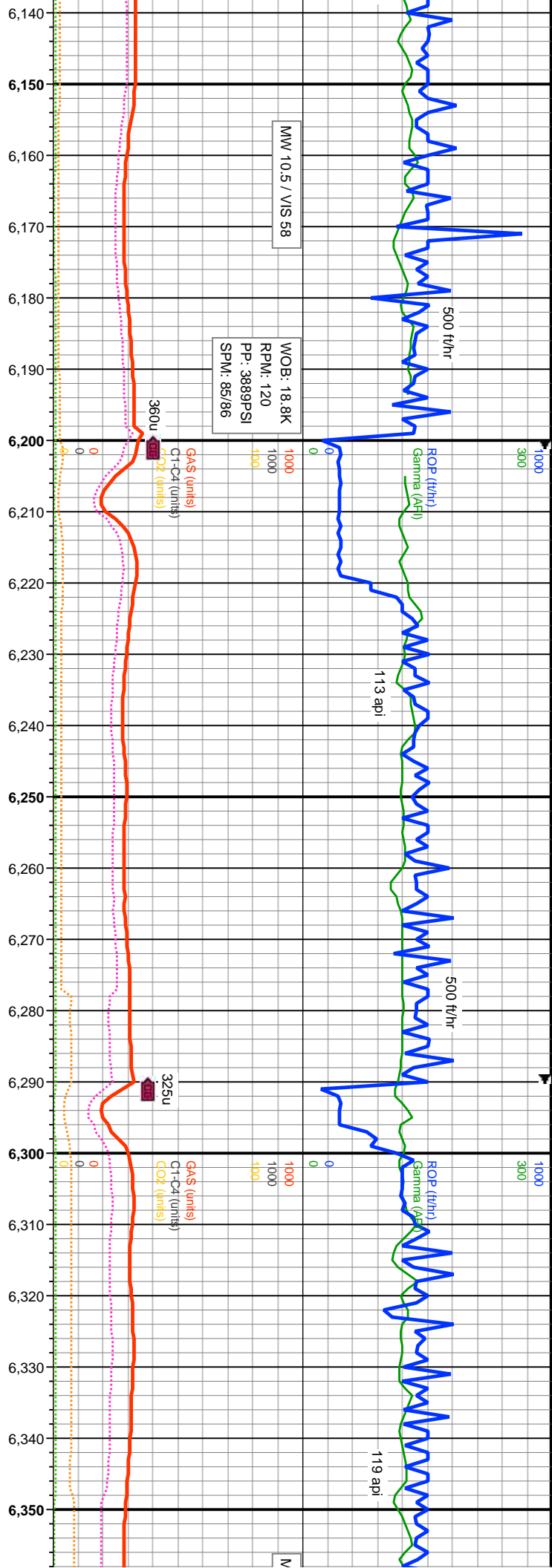
% Lithology

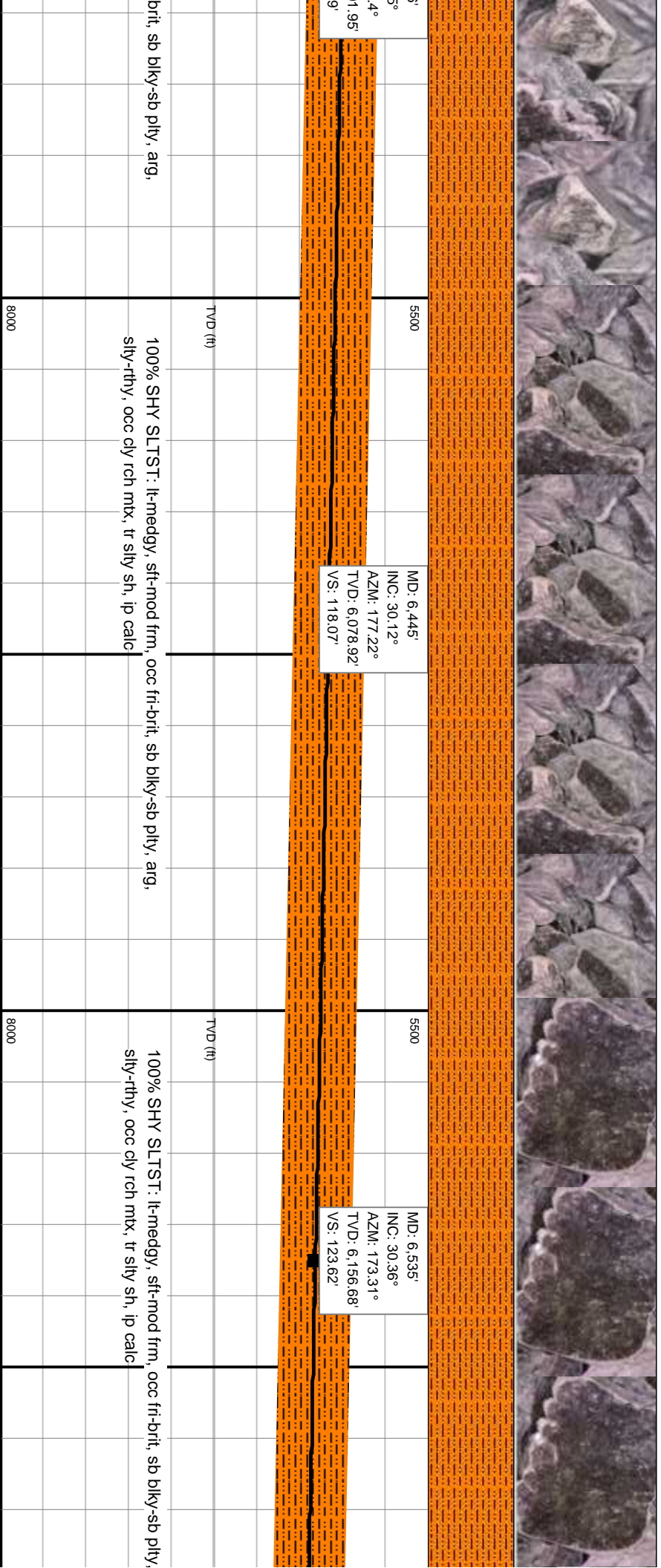
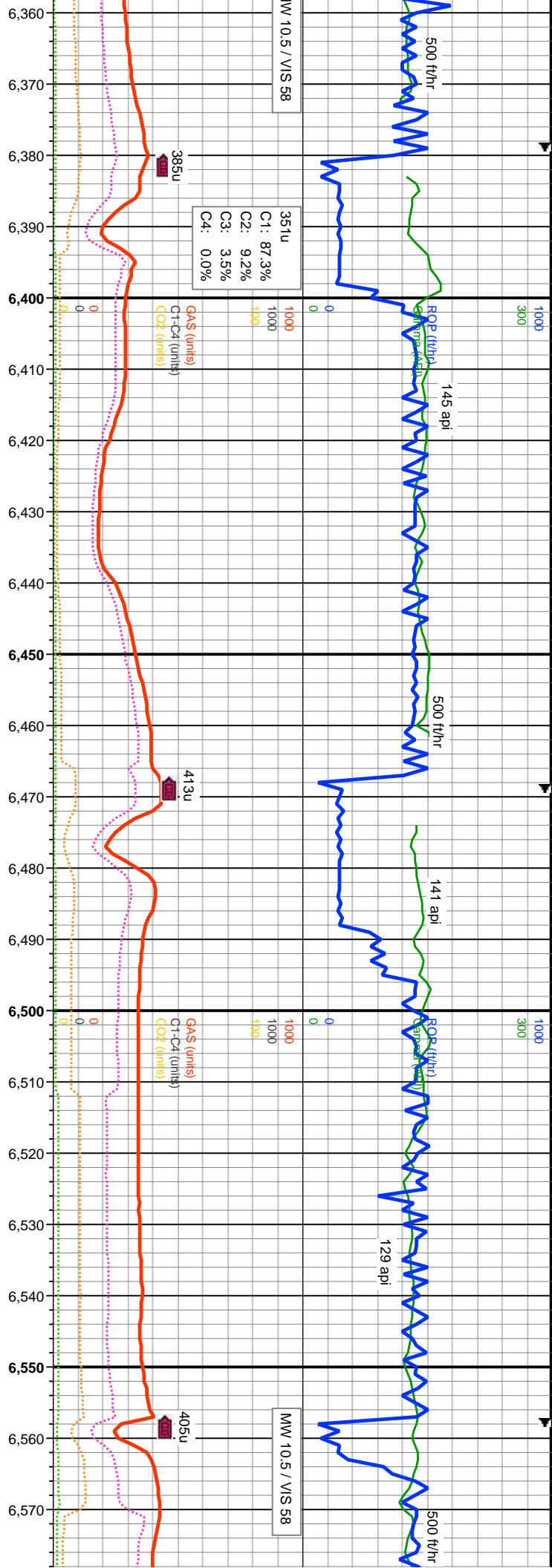


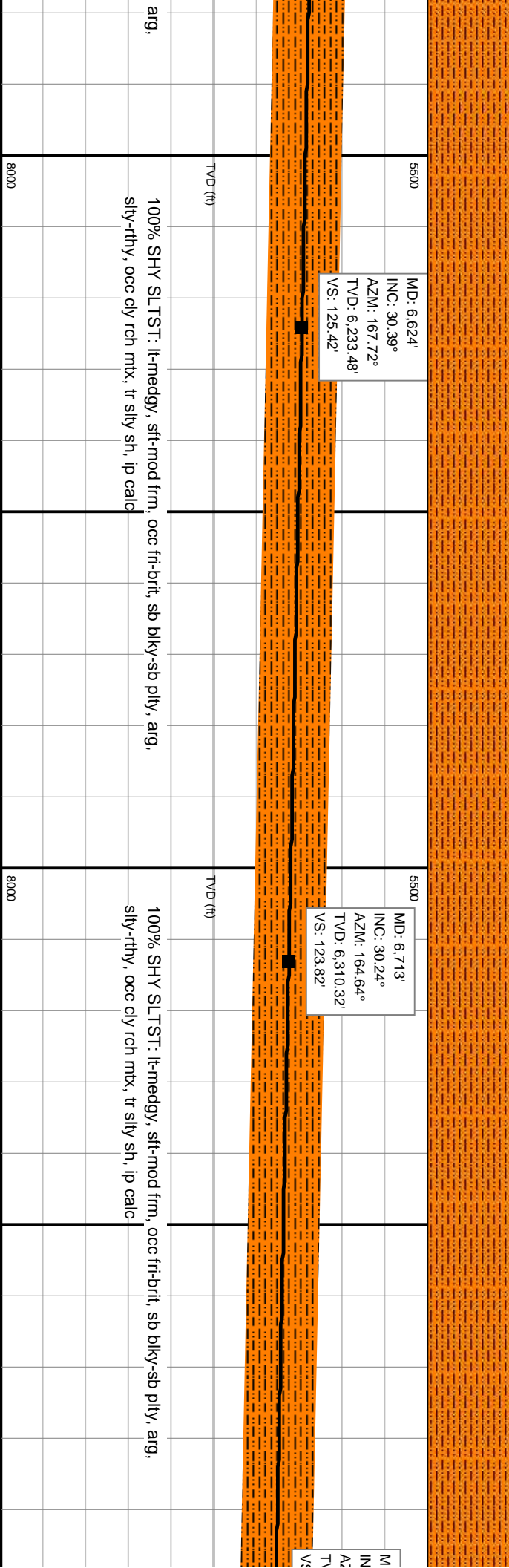
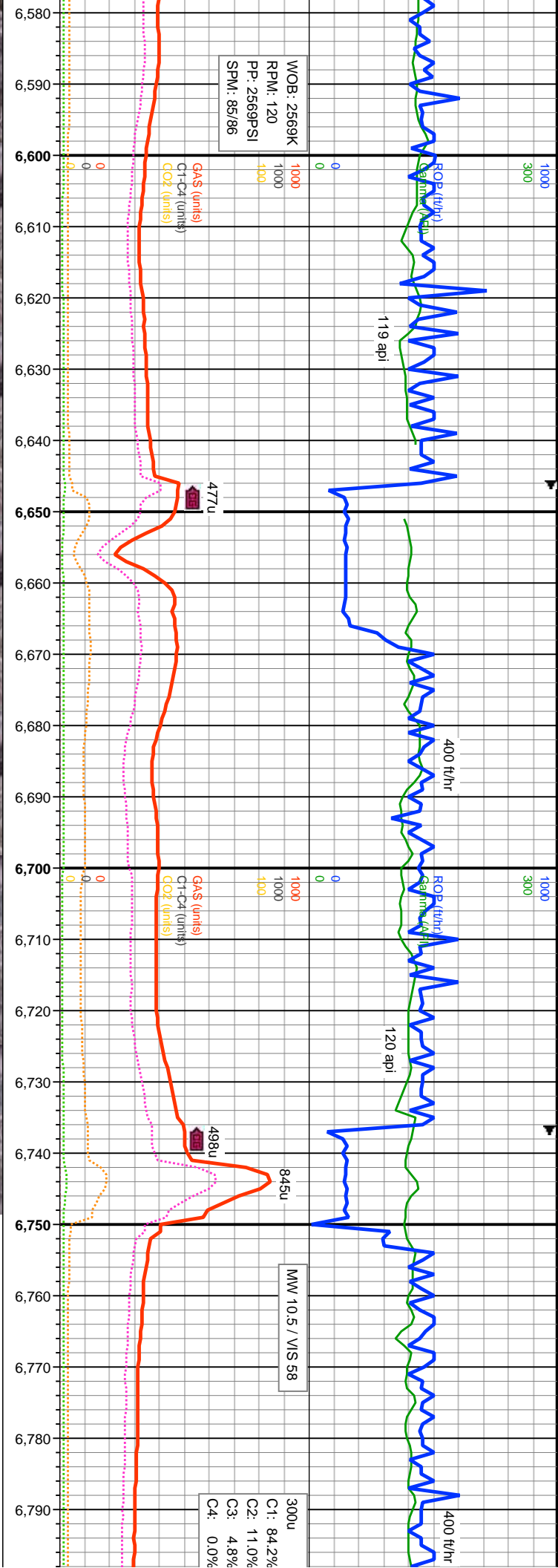
Well Bore  
 TVD ———

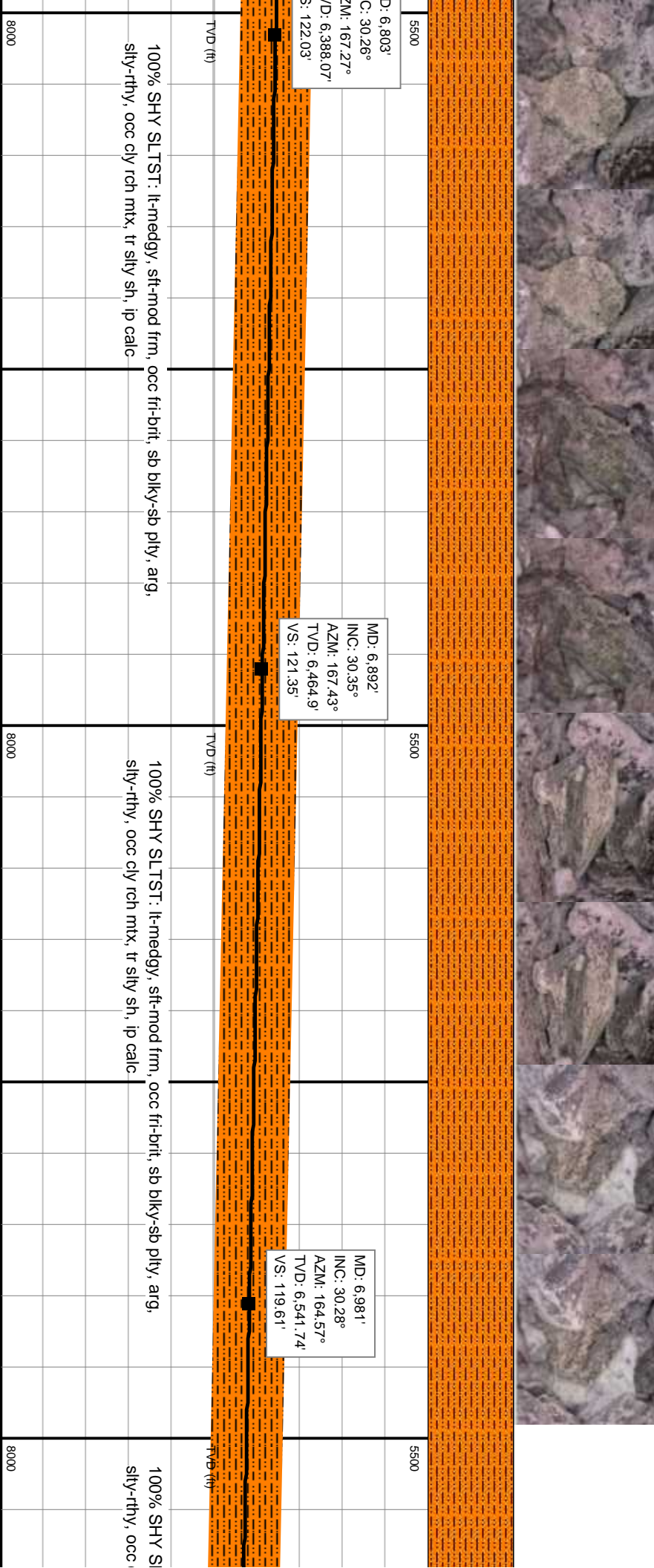
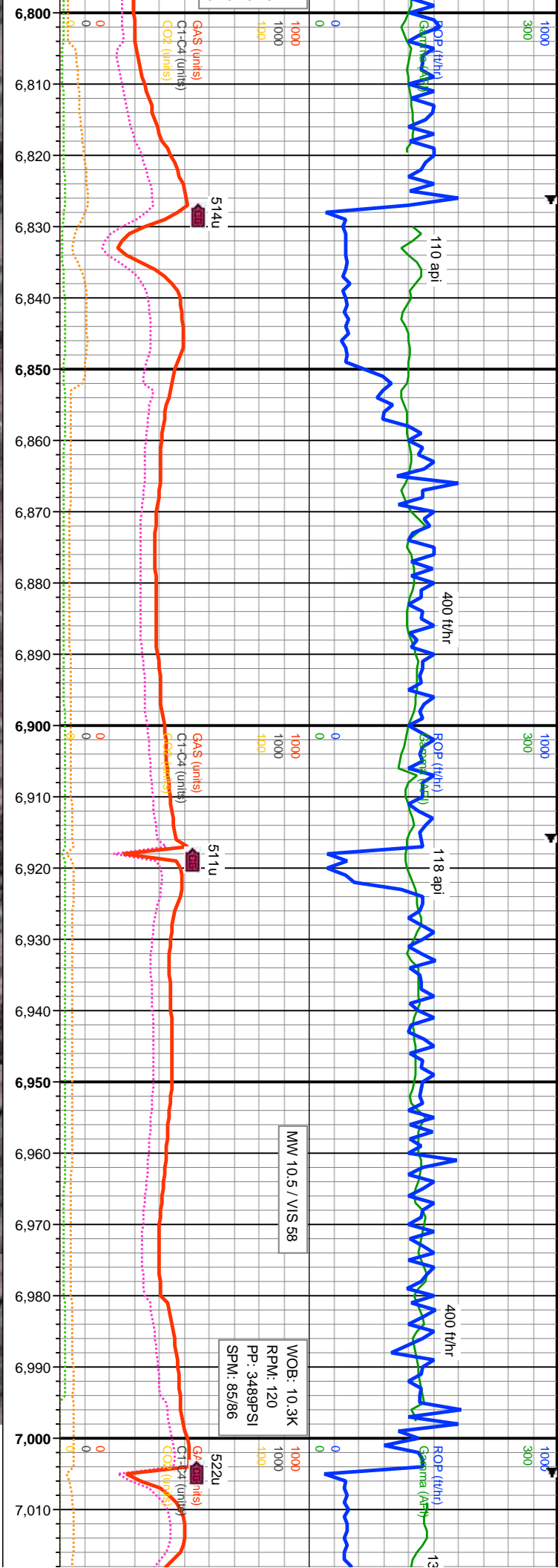
100% SHY SLTST: lk-meddy, sft-mod frm, occ fri-brit, sb blk-y-sb plty, arg,  
 slty-rthy, occ cly rch mtx, tr slty sh, ip calc

100% SHY SLTST: lk-meddy, s  
 slty-rthy, occ cly rch mtx, tr slty

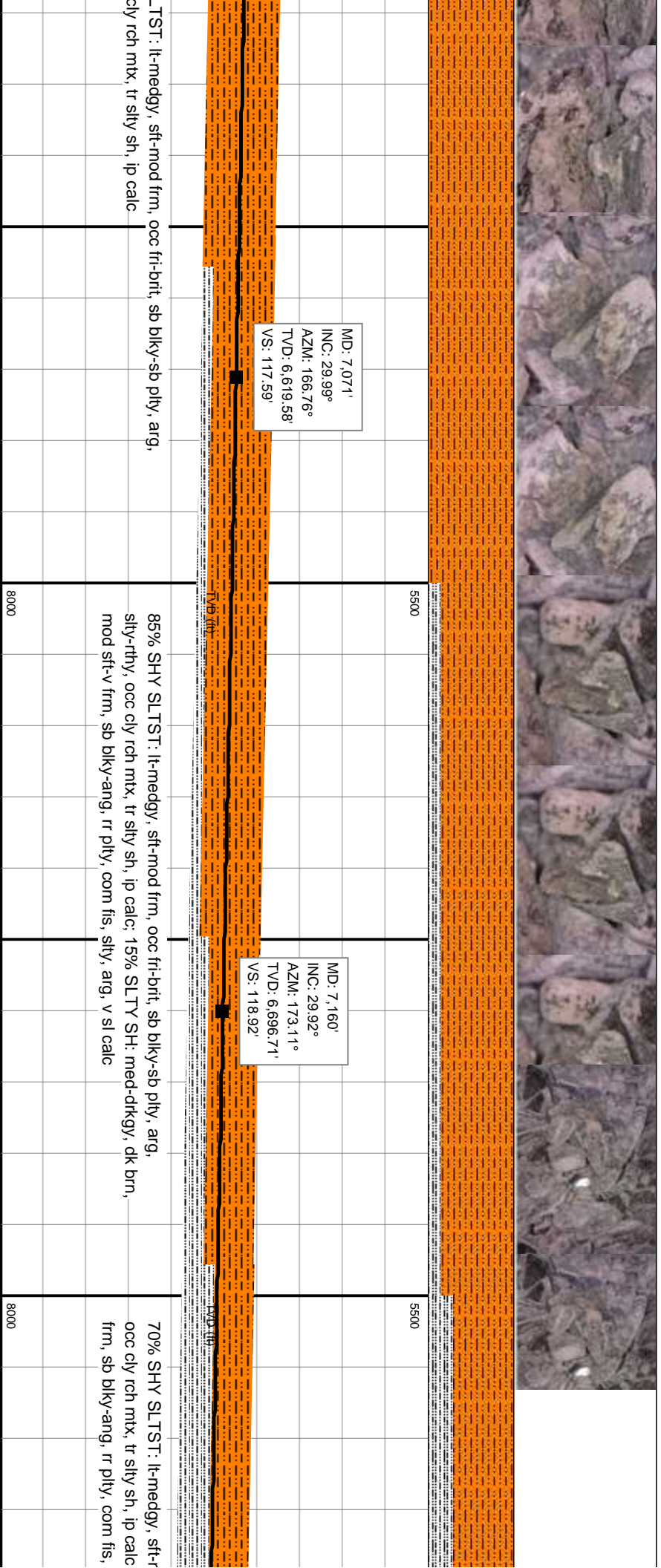
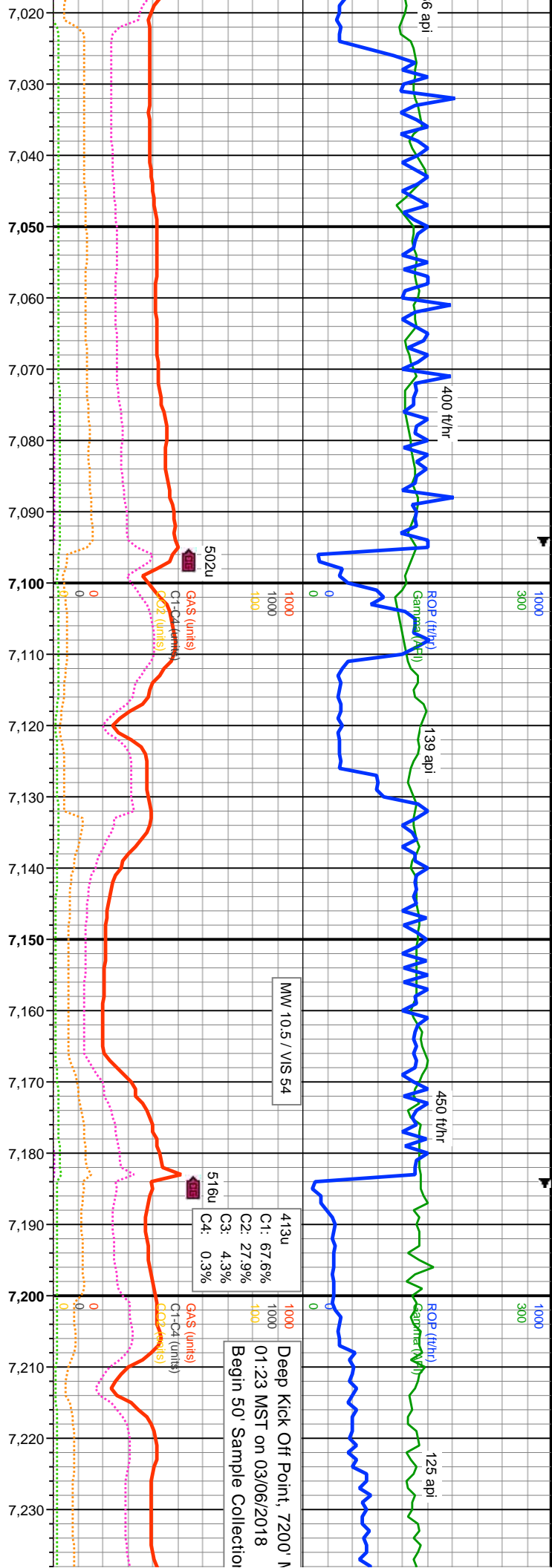


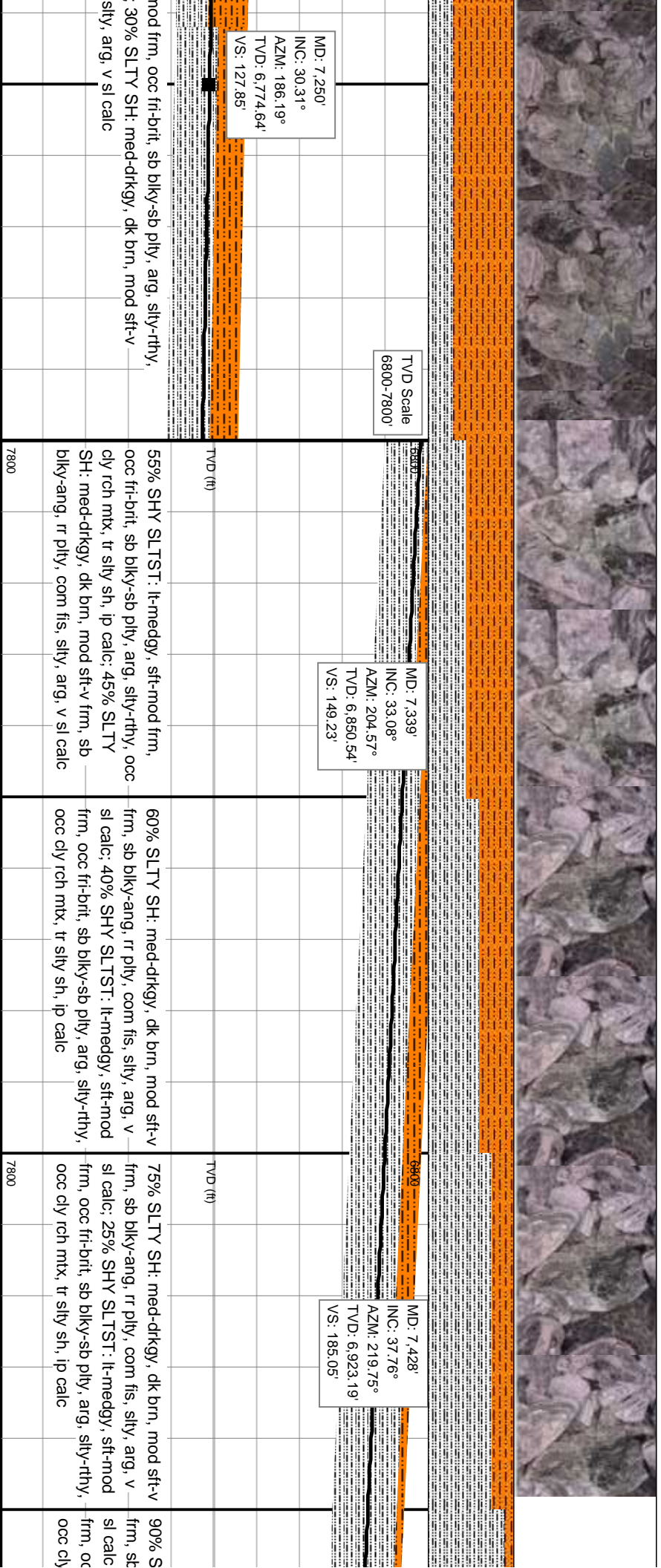
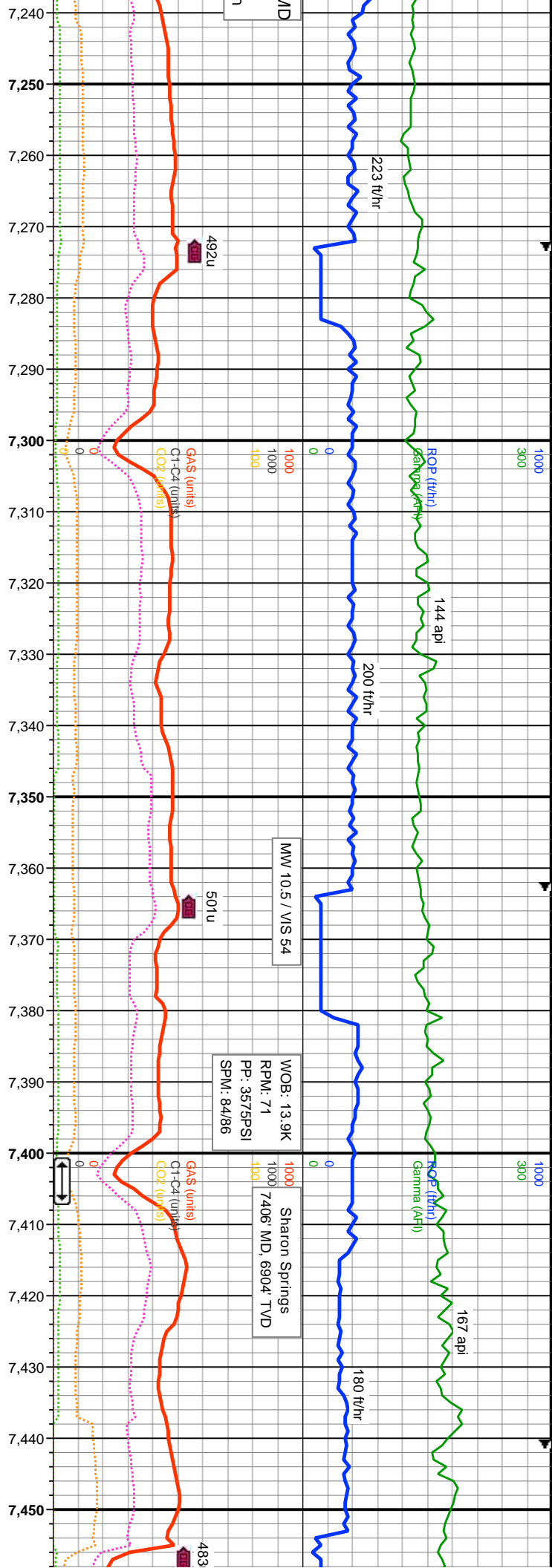


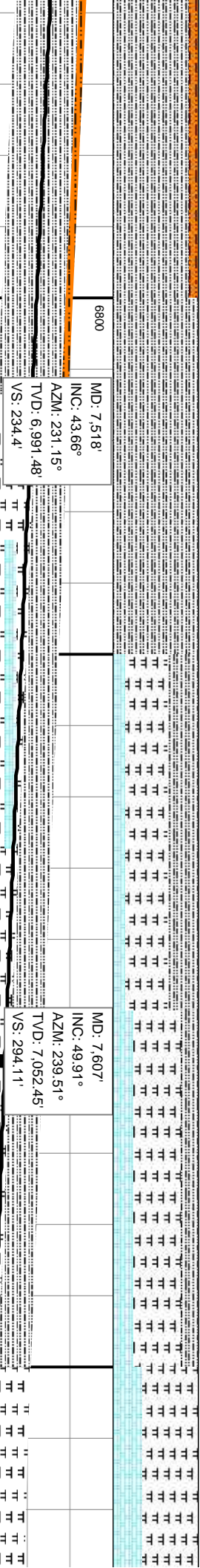
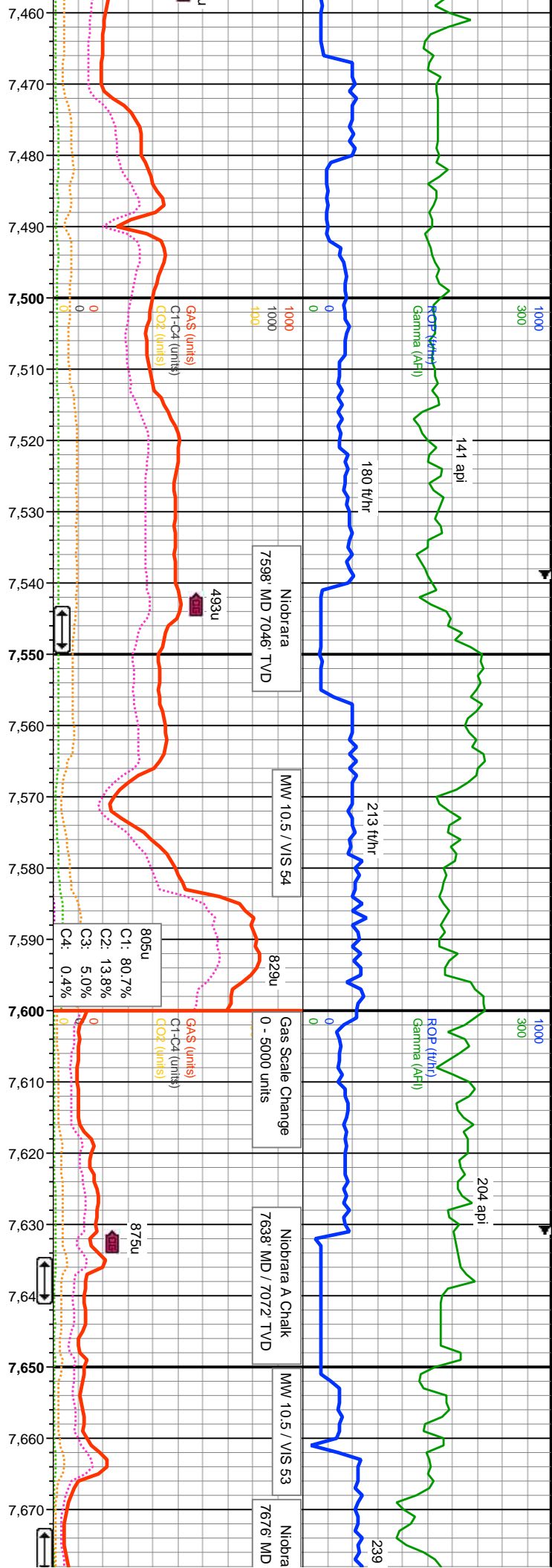




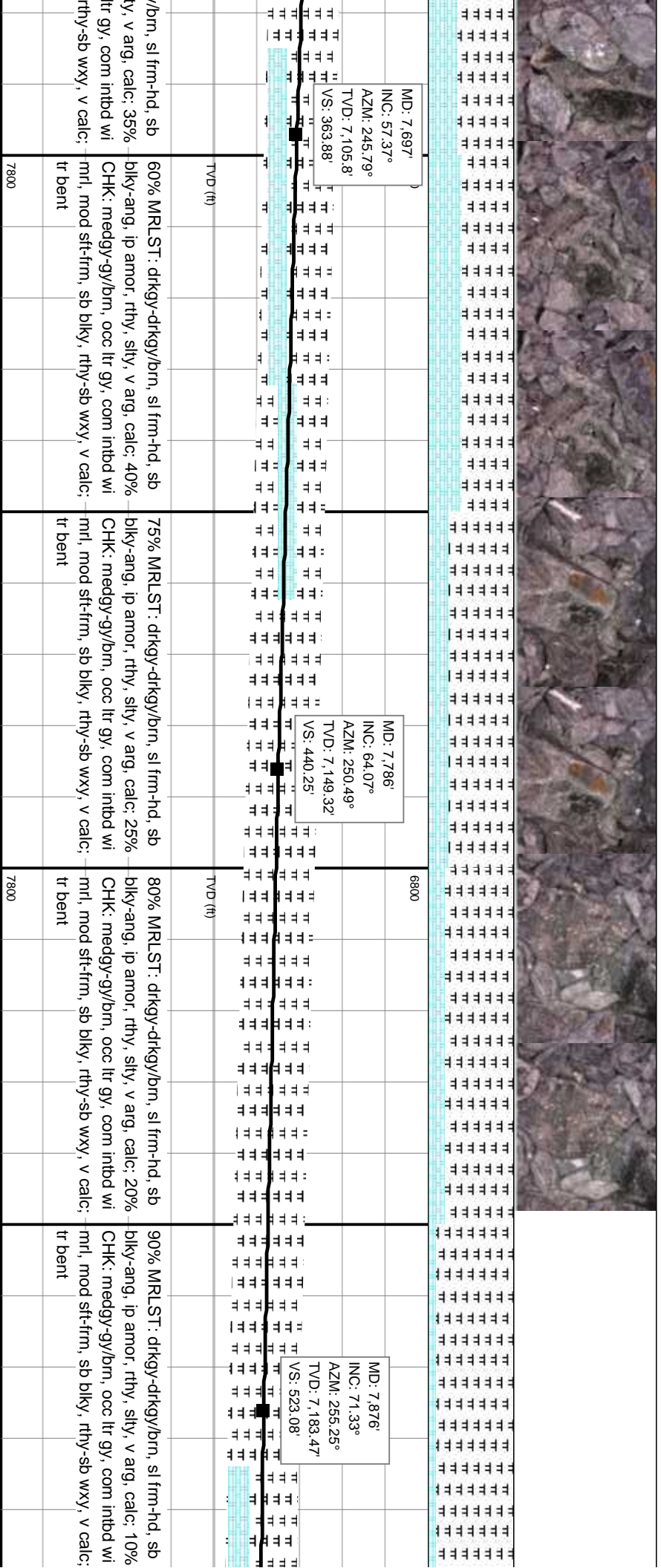
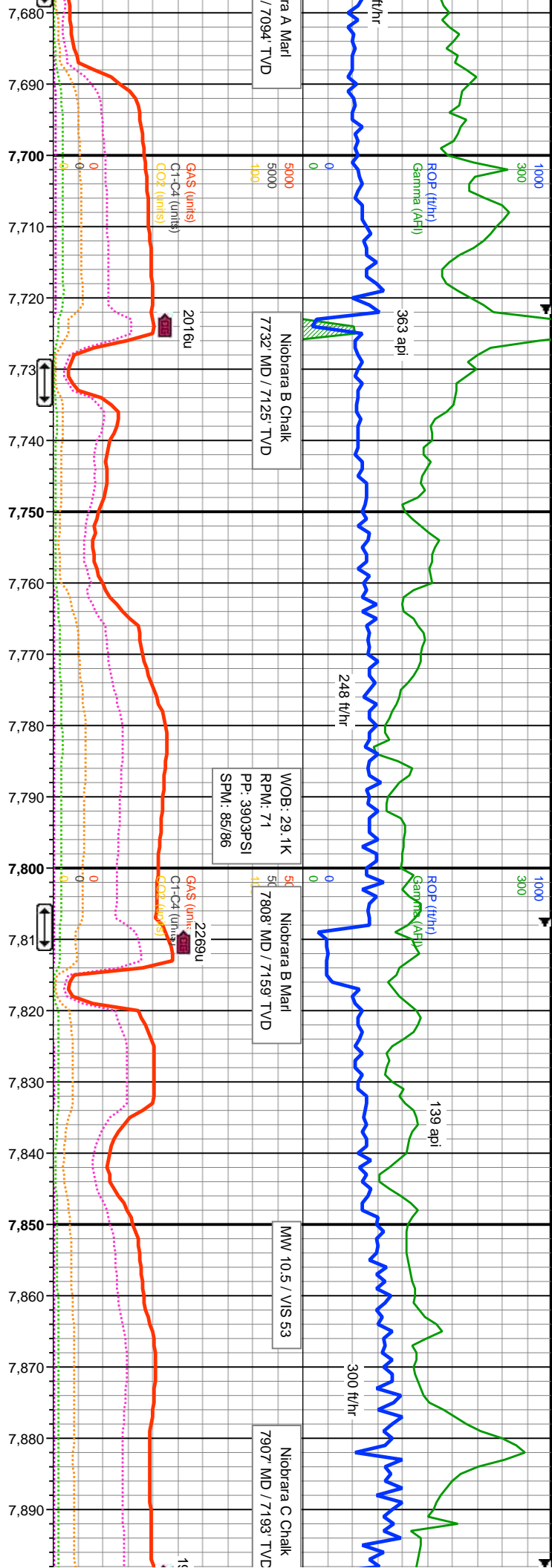




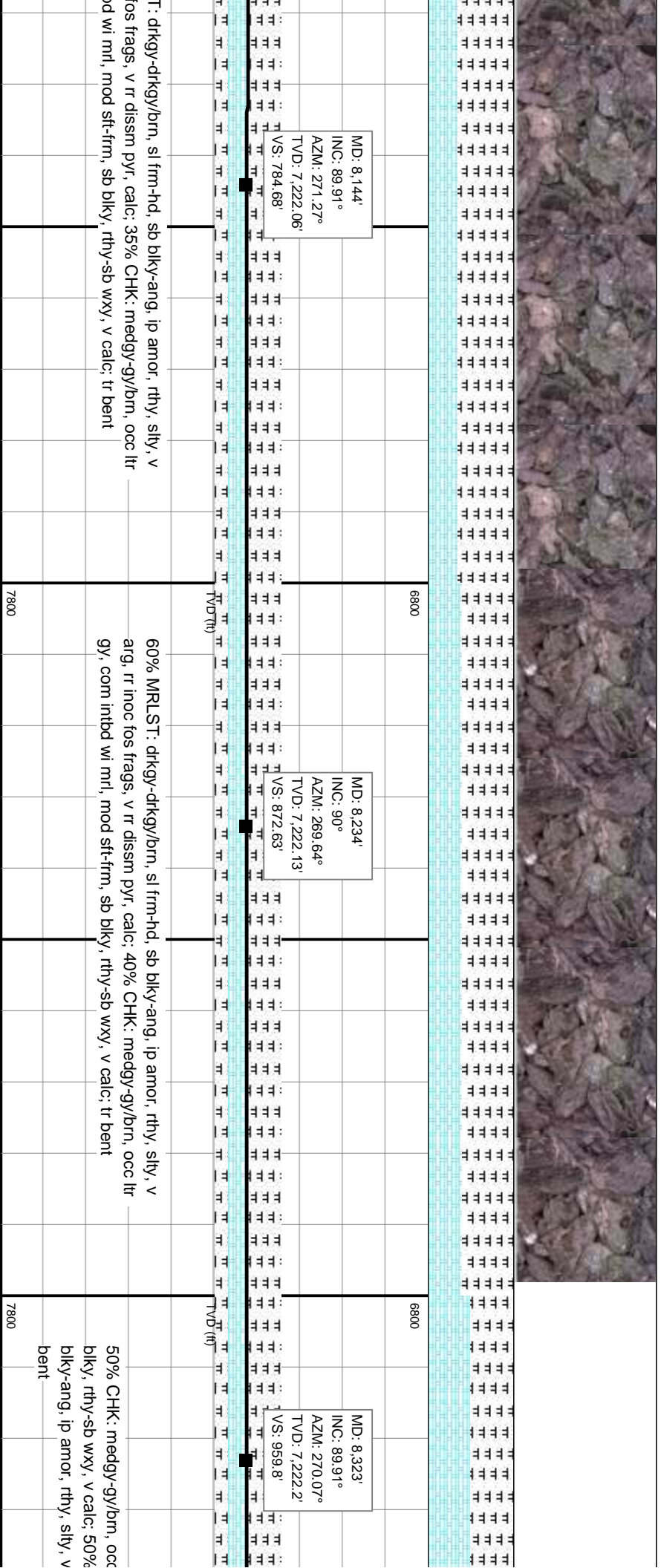
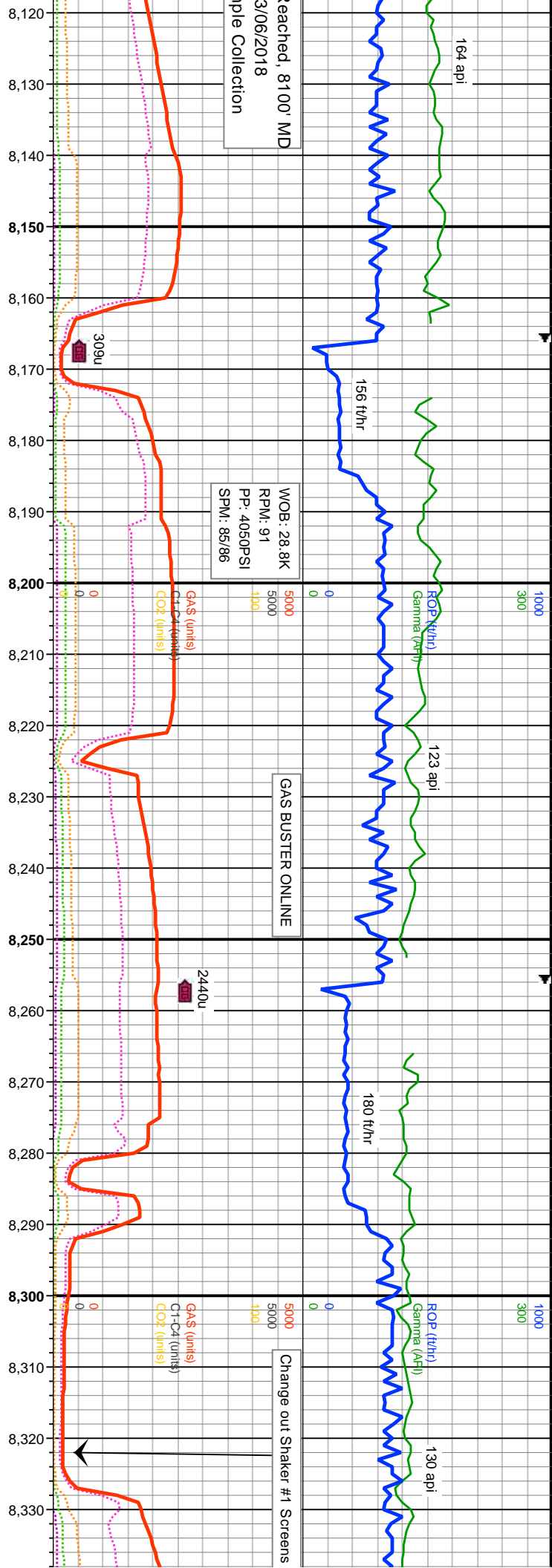


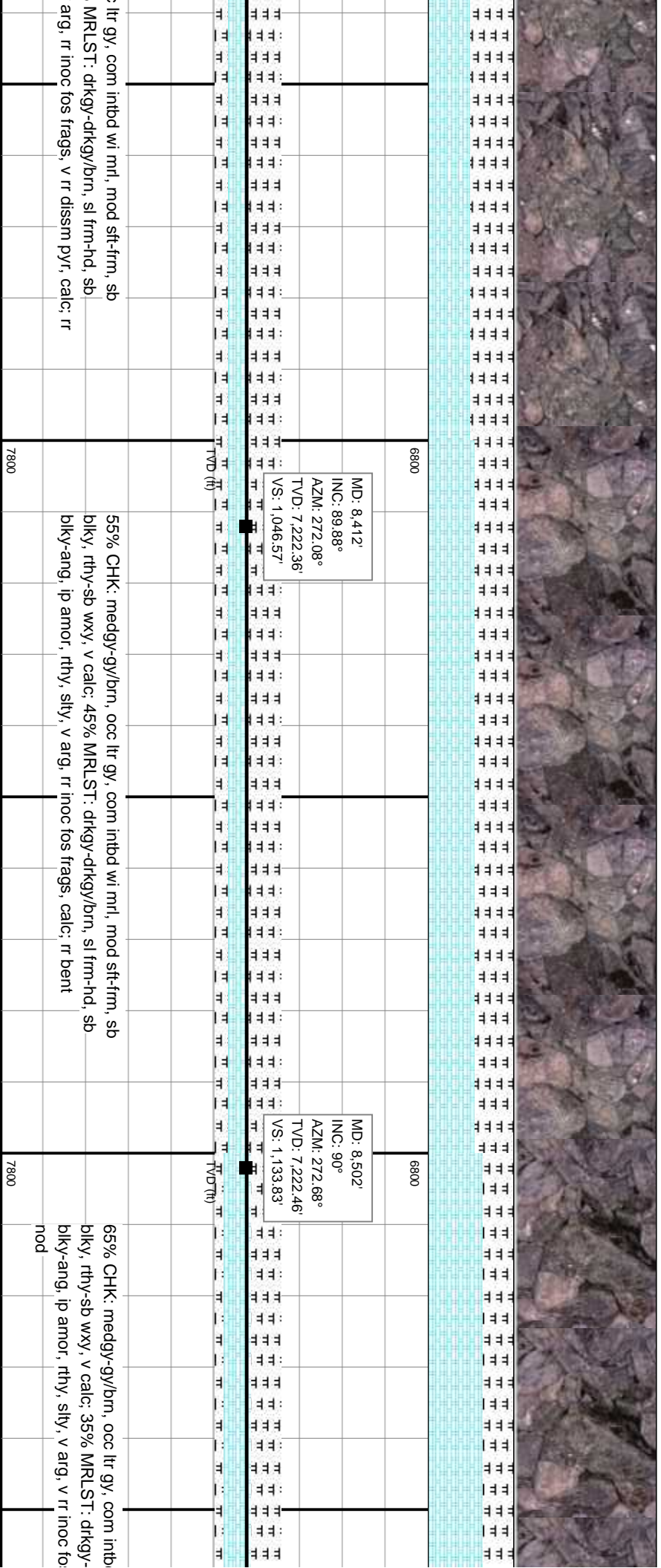
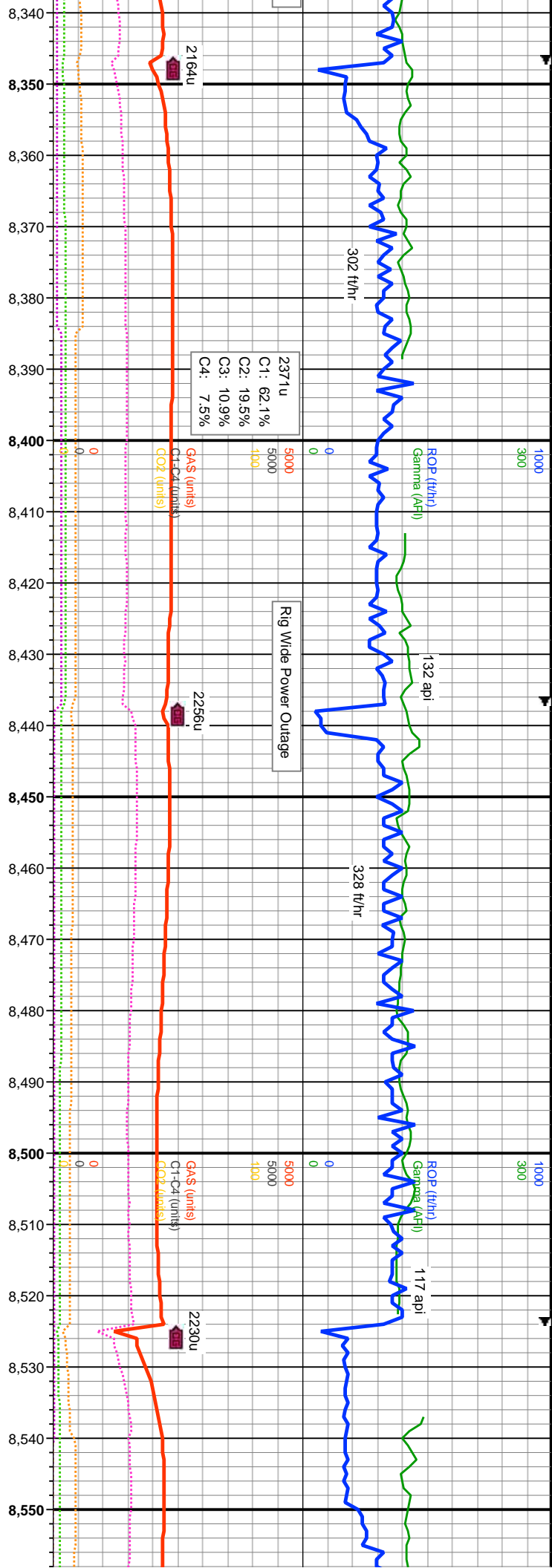


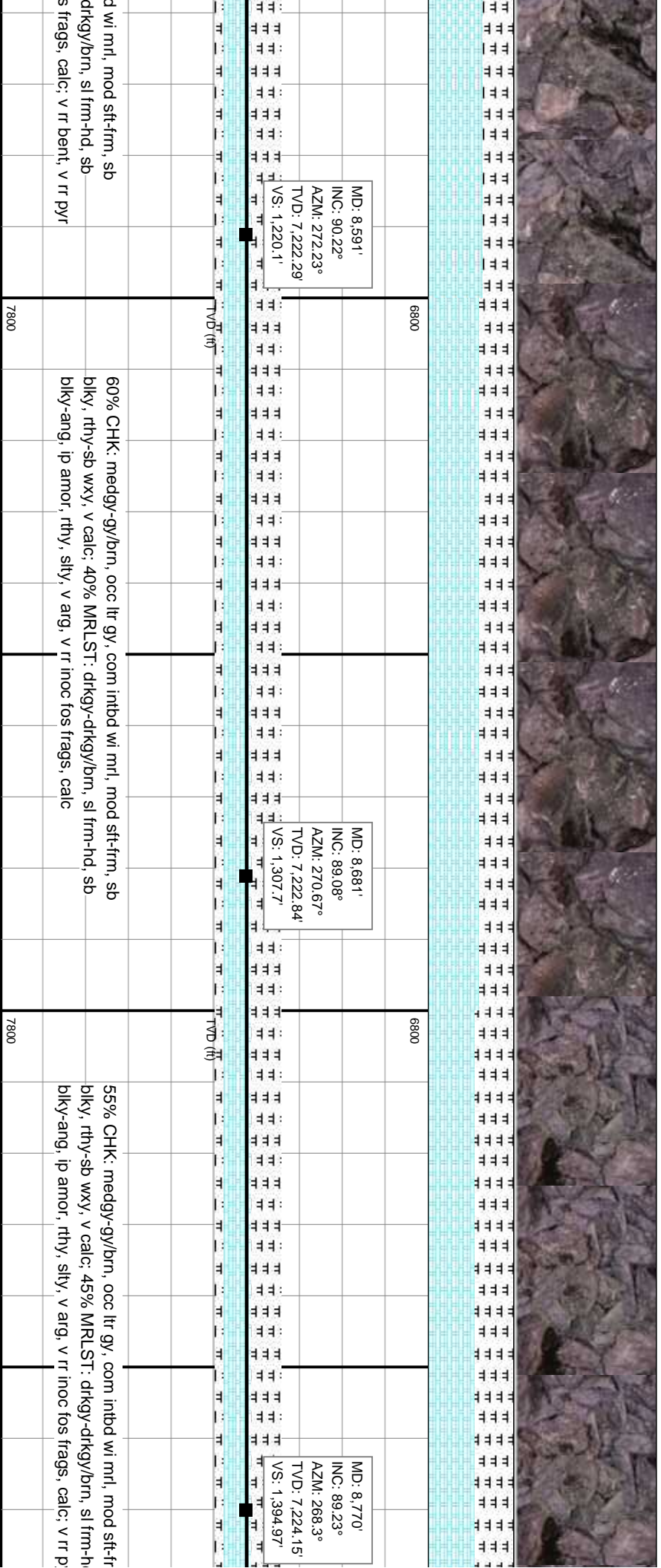
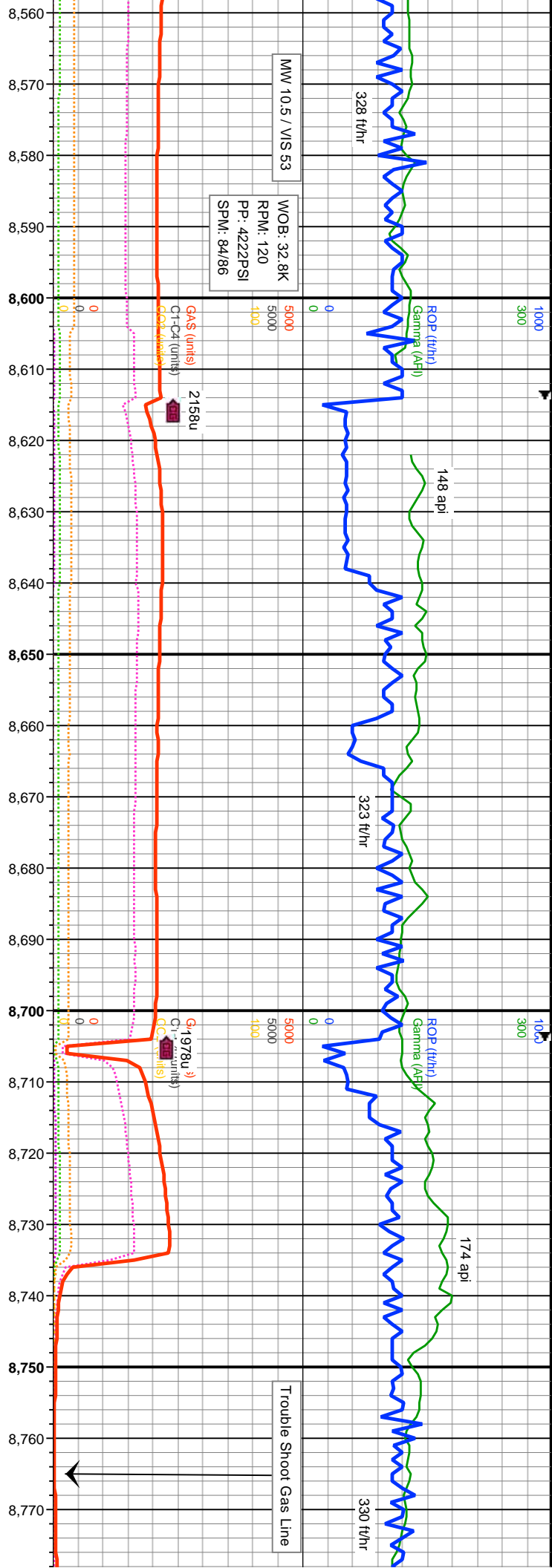
<p>LTy SH: med-dtkgy, dk brn, mod sft-v blk-ang, rr ply, com fis, slty, arg, v 10% SHY SLTST: lk-medgy, sft-mod cc-frt-bit, sb blk-ang, arg, slty-rthy, rch mtz, tr slty sh, ip calc</p>	<p>100% SLTY SH: med-dtkgy, dk brn, mod sft-v frm, sb blk-ang, rr ply, com fis, slty, arg, v sl calc</p>	<p>50% MRLST: dtkgy-dtkgy/bn, sl frm-hd, sb blk-ang, ip amor, rthy, slty, v arg, calc: 35% SLTY SH: med-dtkgy, dk brn, mod sft-v frm, sb blk-ang, rr ply, com fis, slty, arg, v sl calc: 15% CHK: medgy-gy/bn, occ ltr gy, com intbd wi mrl, mod sft-frm, sb blk-ang, rthy-sb wxy, v calc: occ bent</p>	<p>55% MRLST: dtkgy-dtkgy/bn, sl frm-hd, sb blk-ang, ip amor, rthy, slty, v arg, calc: 25% CHK: medgy-gy/bn, occ ltr gy, com intbd wi mrl, mod sft-frm, sb blk-ang, rthy-sb wxy, v calc: 20% SLTY SH: med-dtkgy, dk brn, mod sft-v frm, sb blk-ang, rr ply, com fis, slty, arg, v sl calc: tr bent</p>	<p>65% MRLST: dtkgy-dtkgy blk-ang, ip amor, rthy, slty, v arg, calc: 25% CHK: medgy-gy/bn, occ mrl, mod sft-frm, sb blk-ang, rthy-sb wxy, v calc: tr bent</p>
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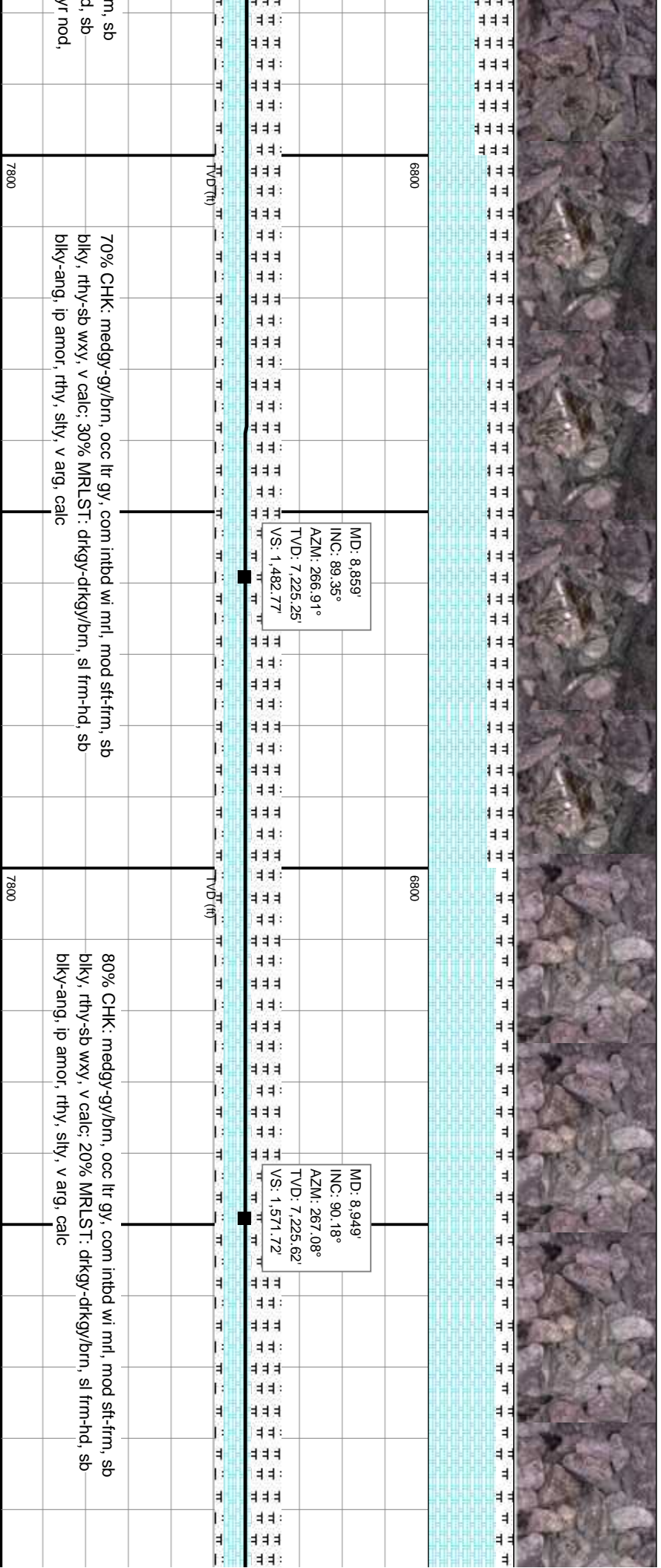
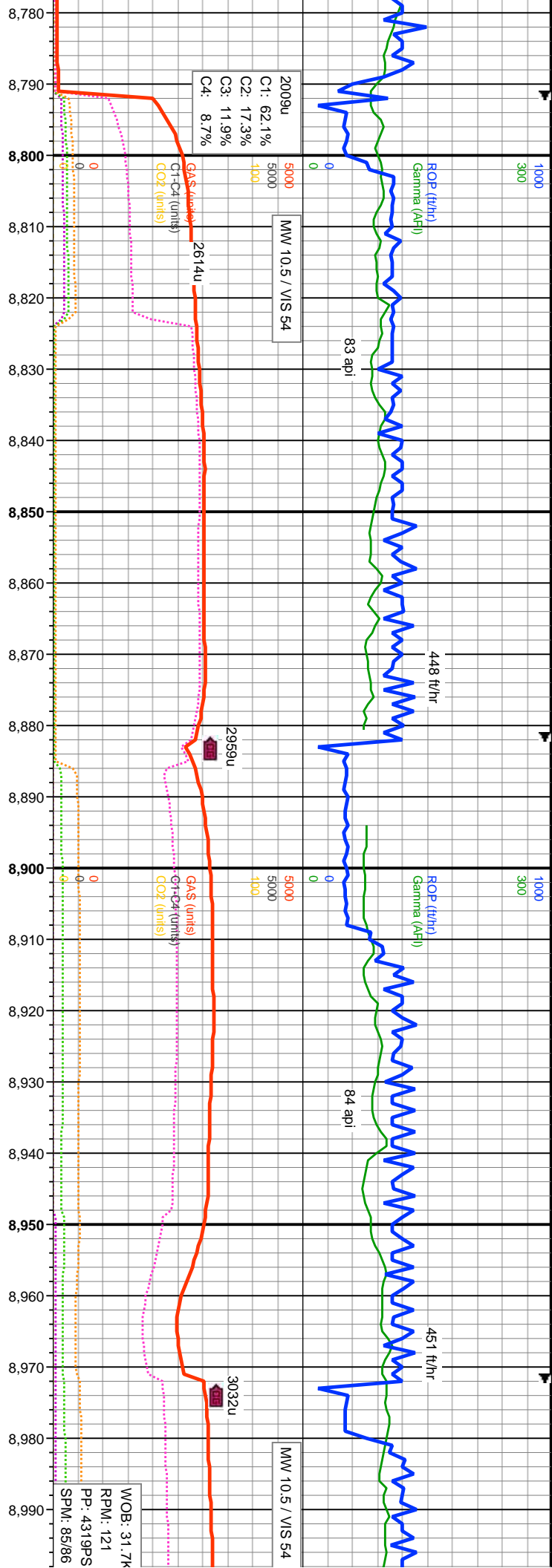


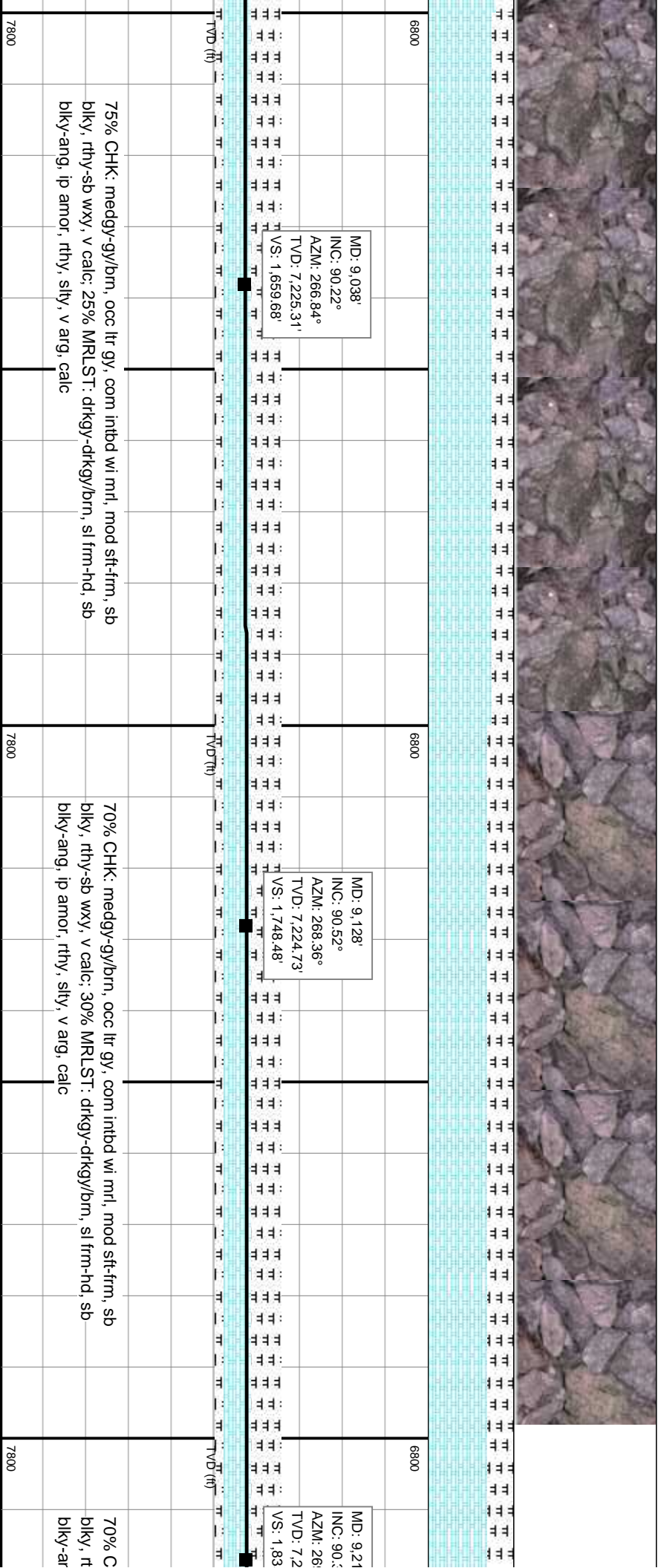
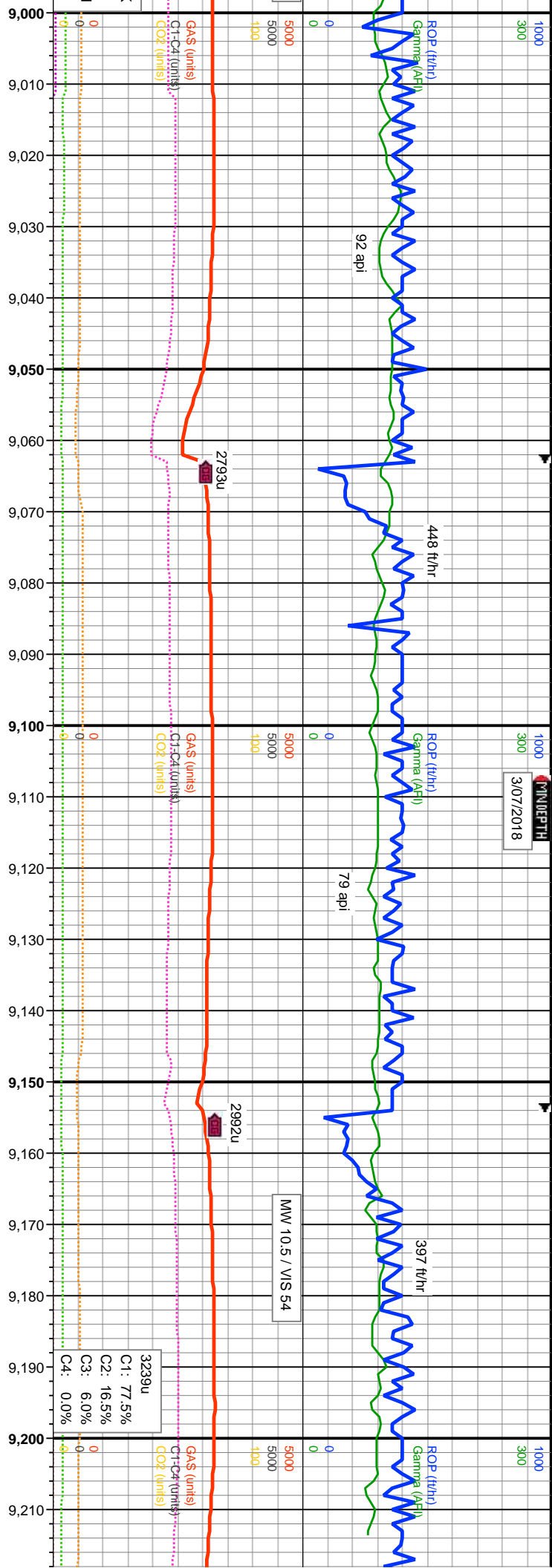


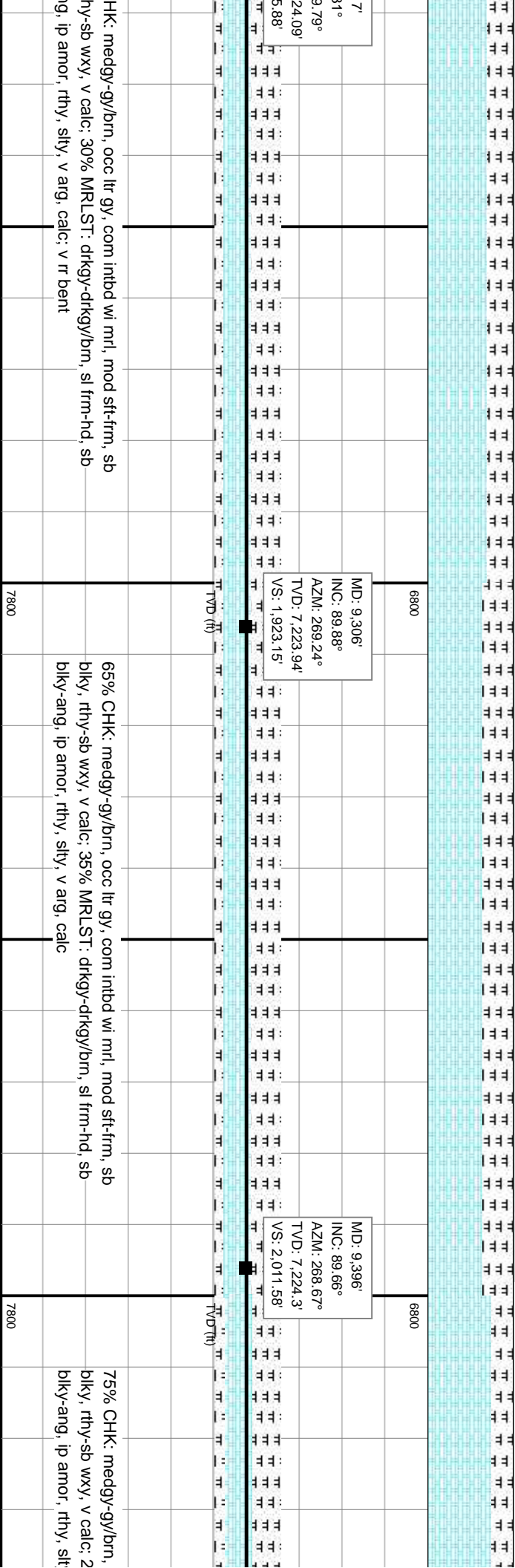
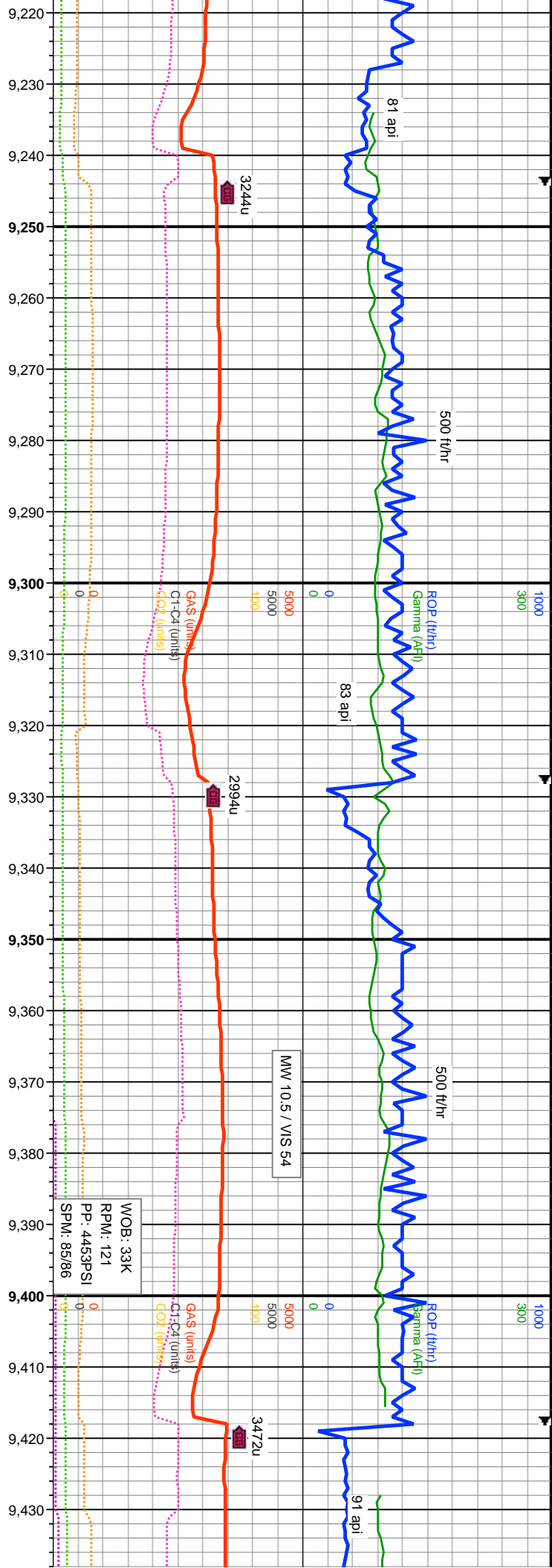


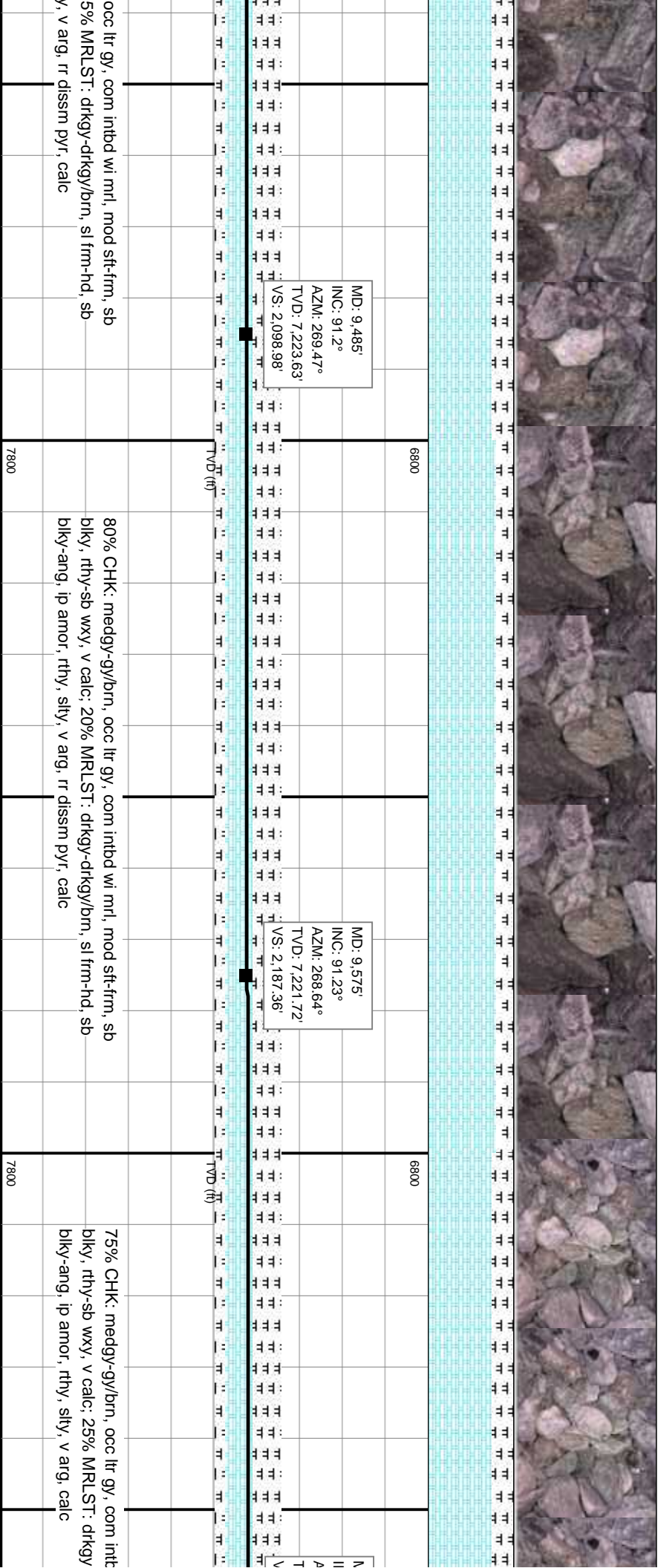
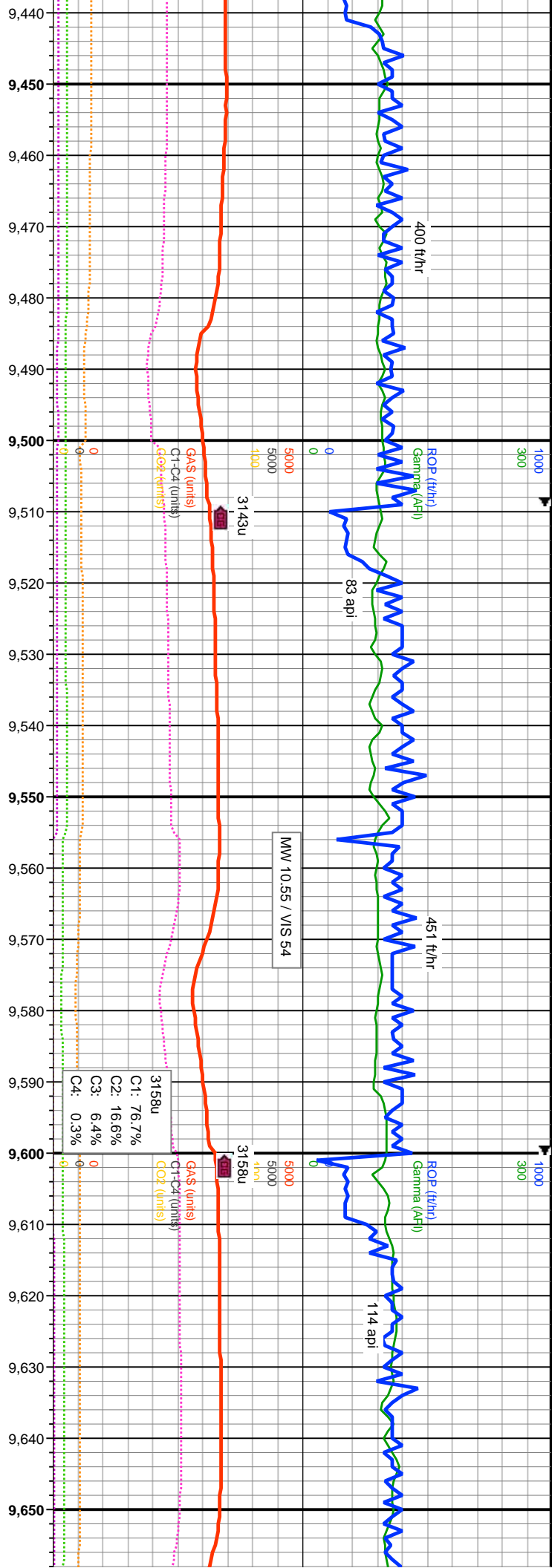


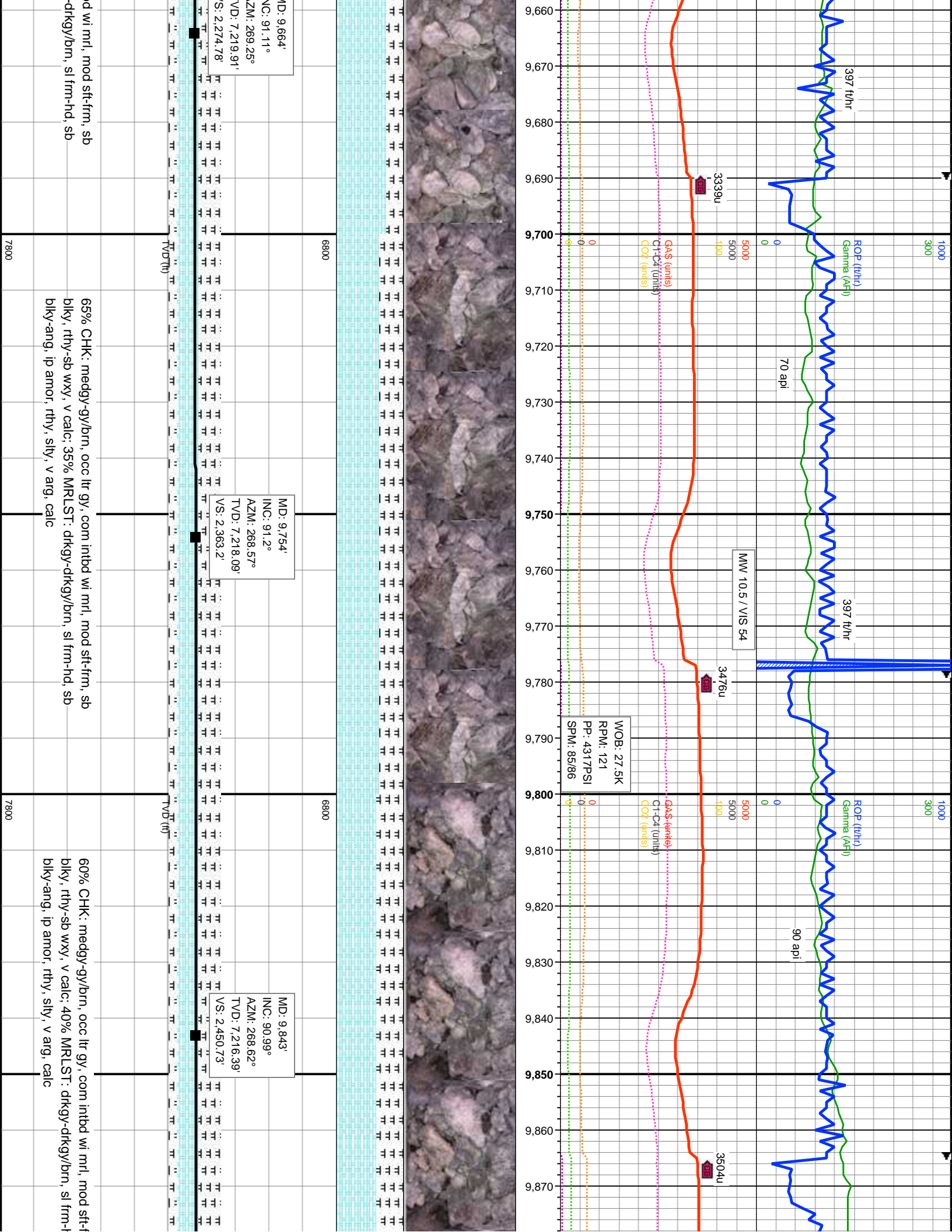


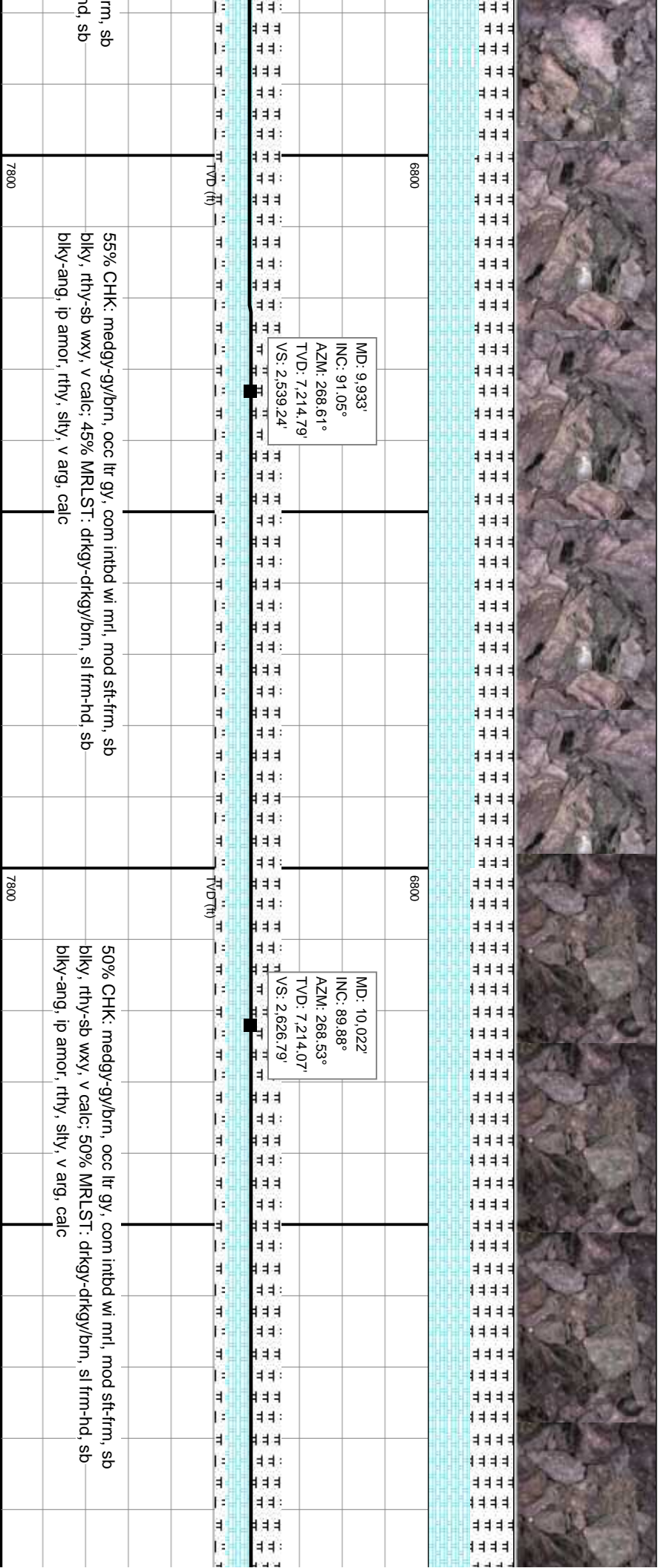
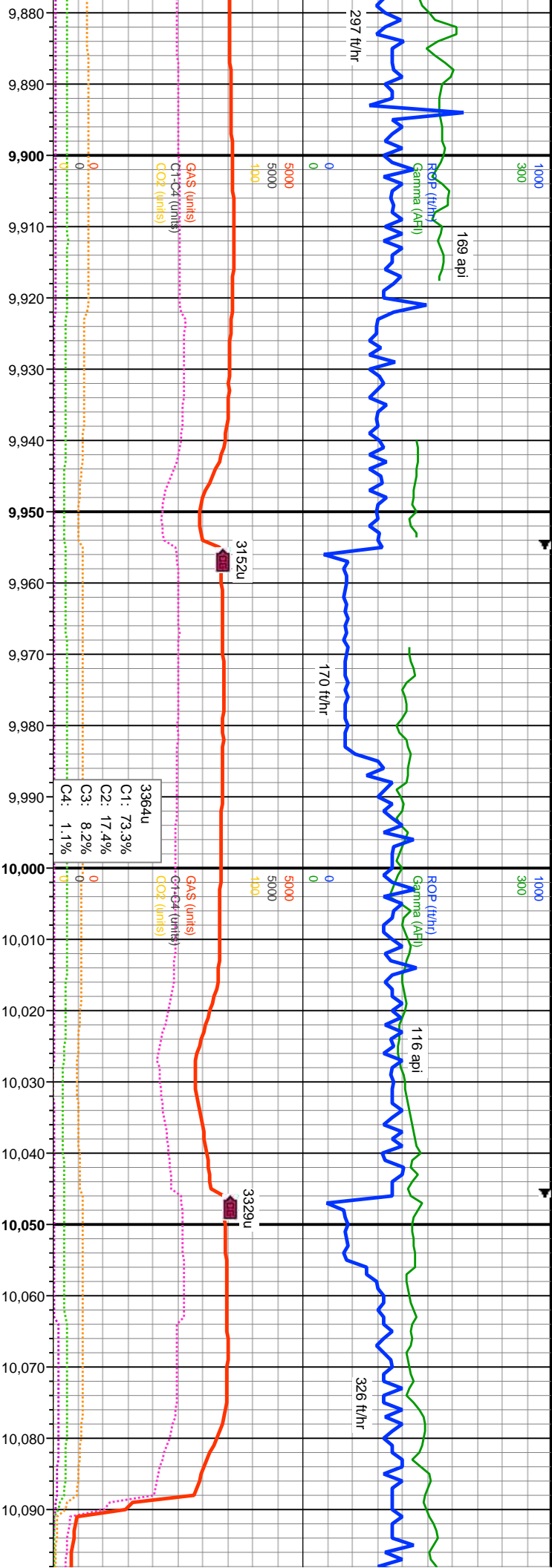


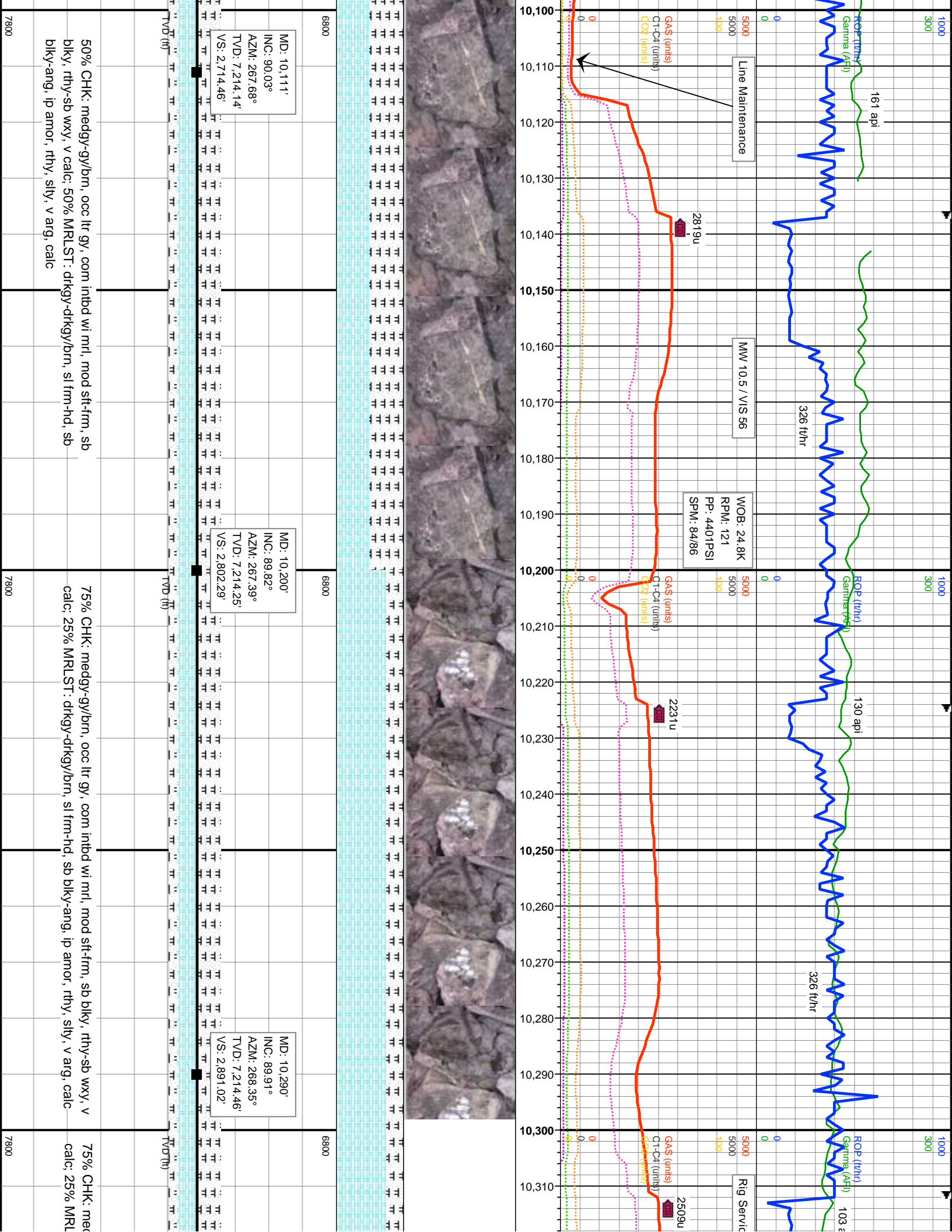












50% CHK: medgy-gy/brn, occ ltr gy, com inbd wi mrl, mod sft-frm, sb  
 blkly, rthy-sb wxy, v calc; 50% MRLST: drkgy-drkgy/brn, sl frm-hd, sb  
 blkly-ang, ip amor, rthy, slty, v arg, calc

75% CHK: medgy-gy/brn, occ ltr gy, com inbd wi mrl, mod sft-frm, sb blkly, rthy-sb wxy, v  
 calc; 25% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkly-ang, ip amor, rthy, slty, v arg, calc

75% CHK: me  
 calc; 25% MRL

MD: 10,111'	INC: 90.03°	AZM: 267.68°	TVD: 7,214.14'	VS: 2,714.46'
MD: 10,200'	INC: 89.82°	AZM: 267.39°	TVD: 7,214.25'	VS: 2,802.29'
MD: 10,290'	INC: 89.91°	AZM: 268.35°	TVD: 7,214.46'	VS: 2,891.02'

Line Maintenance

MW 10.5 / VIS 56

WOB: 24.8K  
 RPM: 121  
 PP: 4401PSI  
 SPM: 84/86

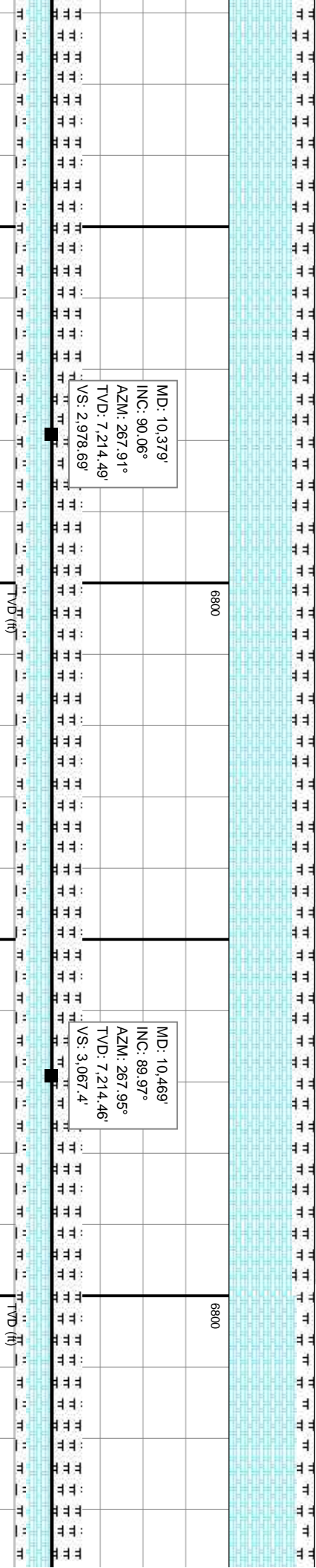
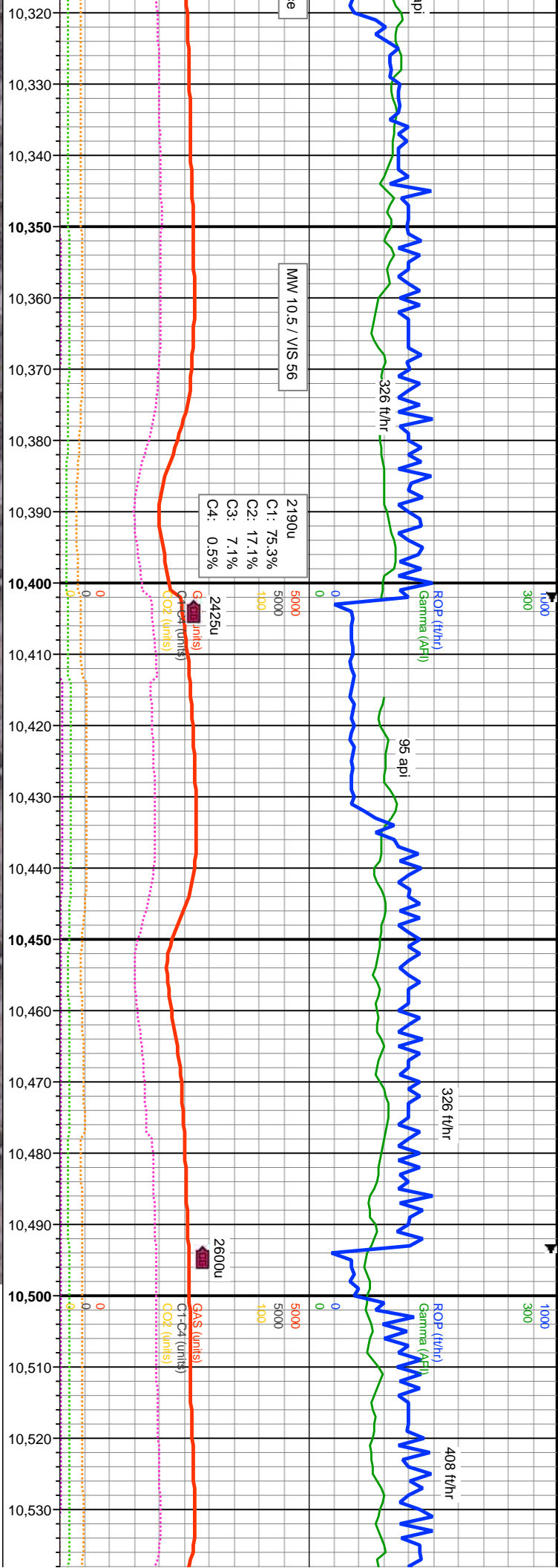
Rig Service

GAS (units)  
 C1-C4 (units)  
 CO2 (units)

ROP (ft/hr)  
 Gamma (API)

161 api  
 2819u  
 130 api  
 2509u

6800 7800 6800 7800 6800 7800

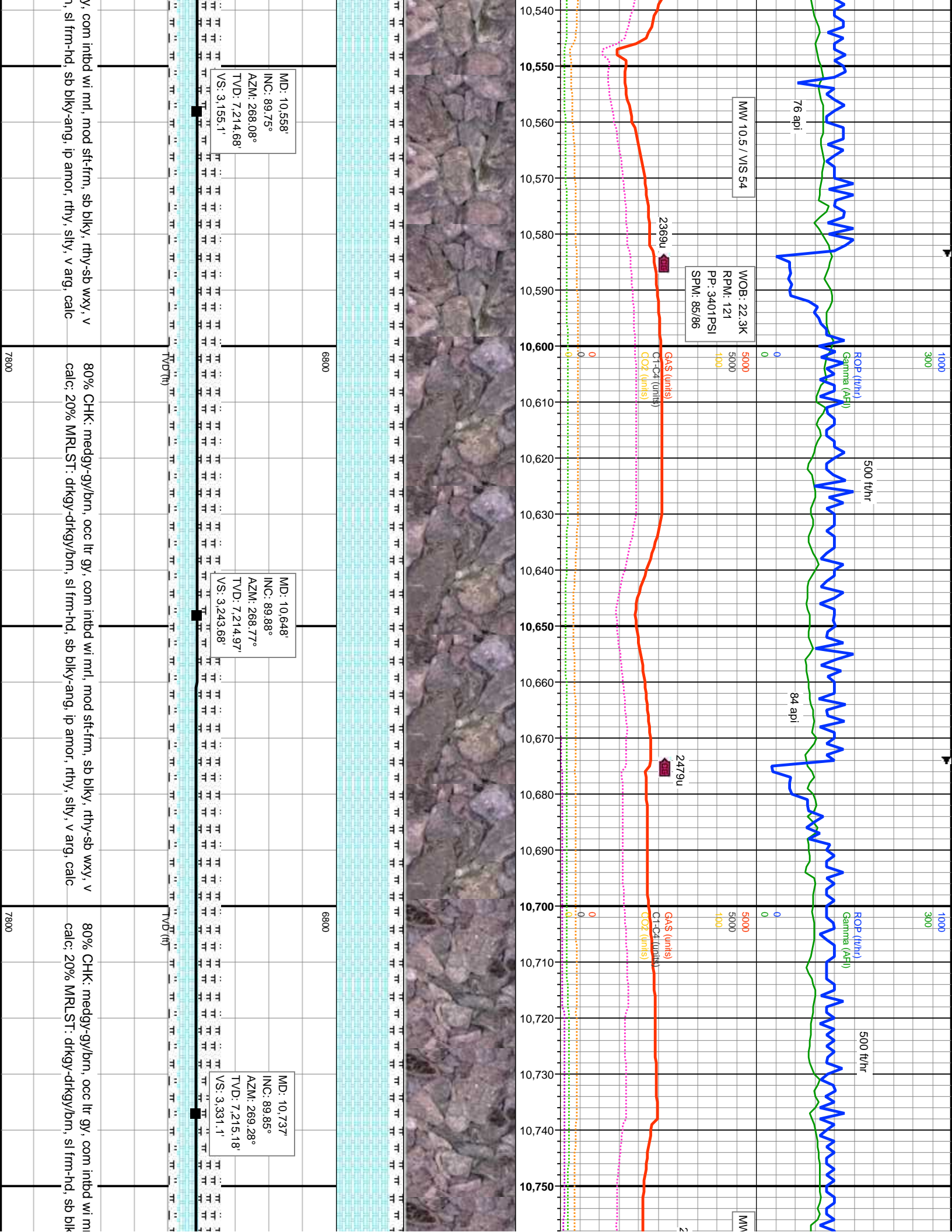


gy-gy/brn, occ ltr gy, com intbd w/ mrl, mod sft-fm, sb blk, rthy-sb wxy, v  
 ST: drkgy-drkgy/brn, sl frm-hd, sb blk-ang, lp amor, rthy, silty, v arg, calc

75% CHK: medgy-gy/brn, occ ltr gy, com intbd w/ mrl, mod sft-fm, sb blk, rthy-sb wxy, v  
 calc; 25% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blk-ang, lp amor, rthy, silty, v arg, calc

80% CHK: medgy-gy/brn, occ ltr g  
 calc; 20% MRLST: drkgy-drkgy/brn

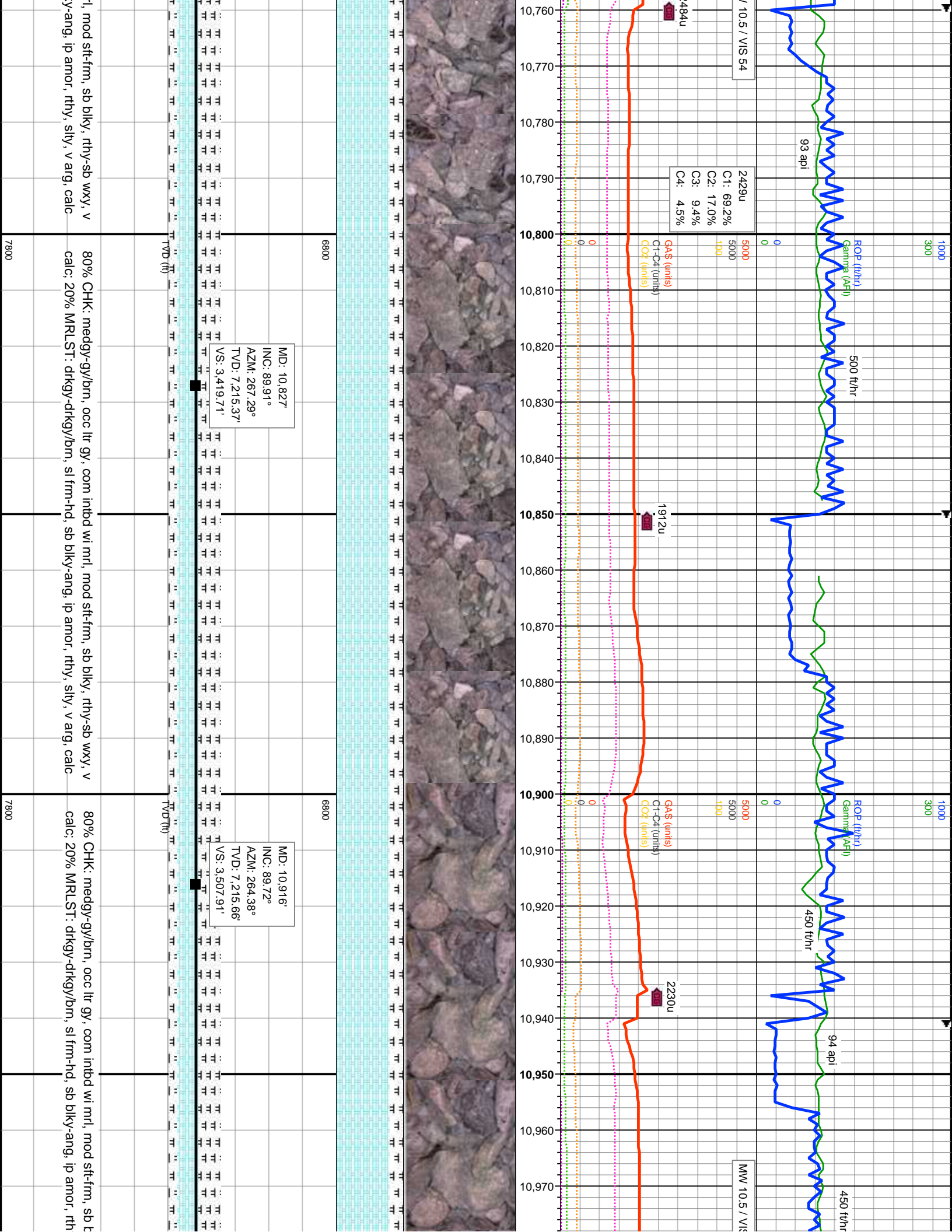




80% CHK: medgy-gy/brn, occ ltr gy, com intbd wi mrl, mod sft-frm, sb blk, rthy-sb wxy, v calc; 20% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blk-ang, ip amor, rthy, slty, v arg, calc

80% CHK: medgy-gy/brn, occ ltr gy, com intbd wi mrl, mod sft-frm, sb blk, rthy-sb wxy, v calc; 20% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blk-ang, ip amor, rthy, slty, v arg, calc

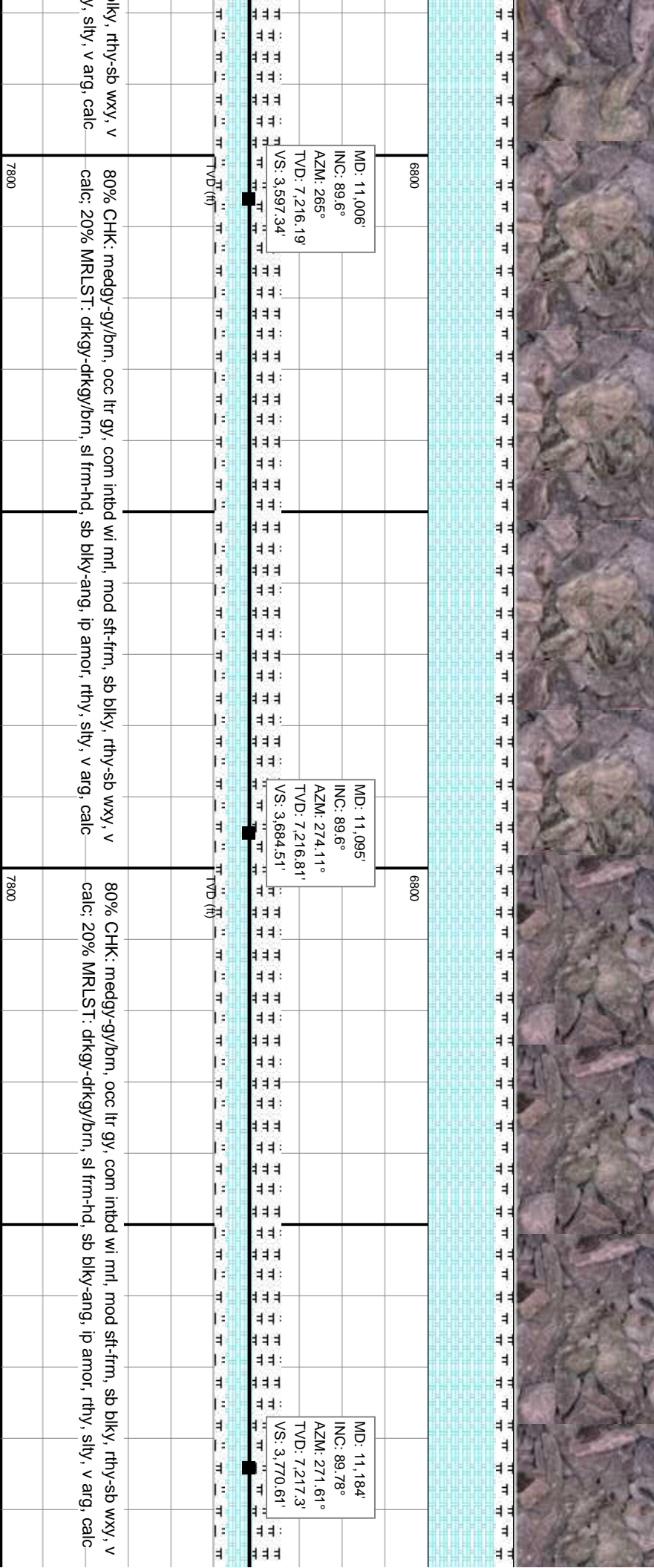
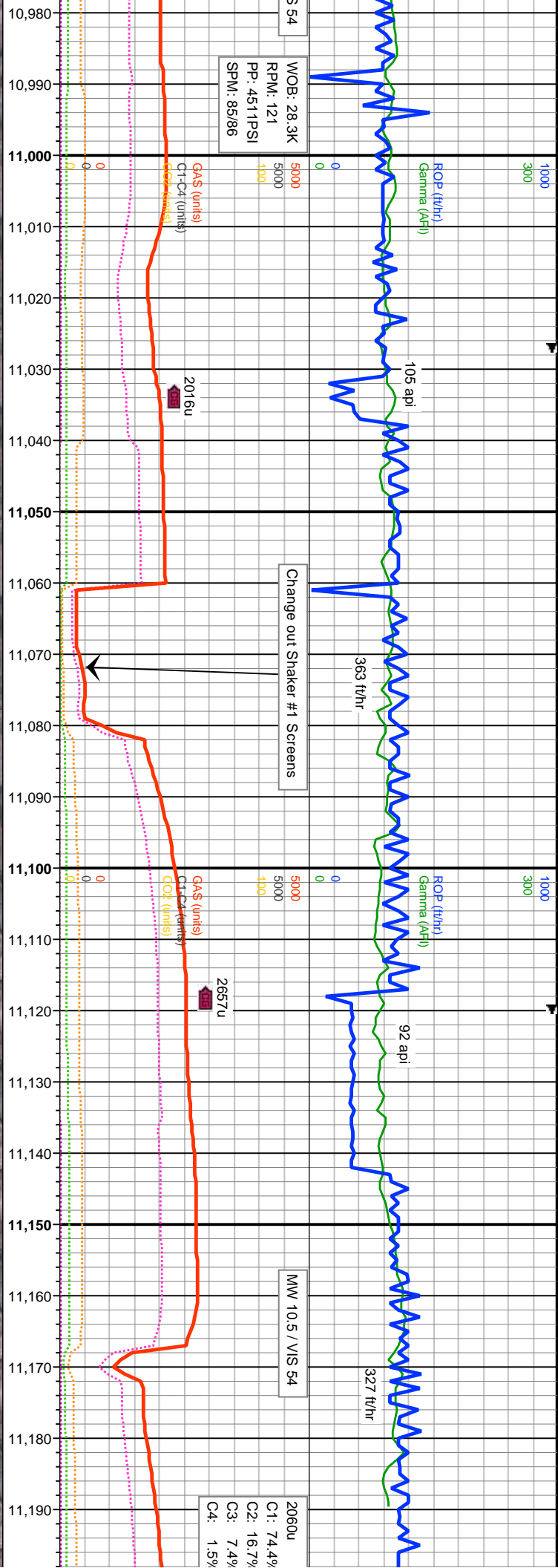
80% CHK: medgy-gy/brn, occ ltr gy, com intbd wi mrl, mod sft-frm, sb blk, rthy-sb wxy, v calc; 20% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blk

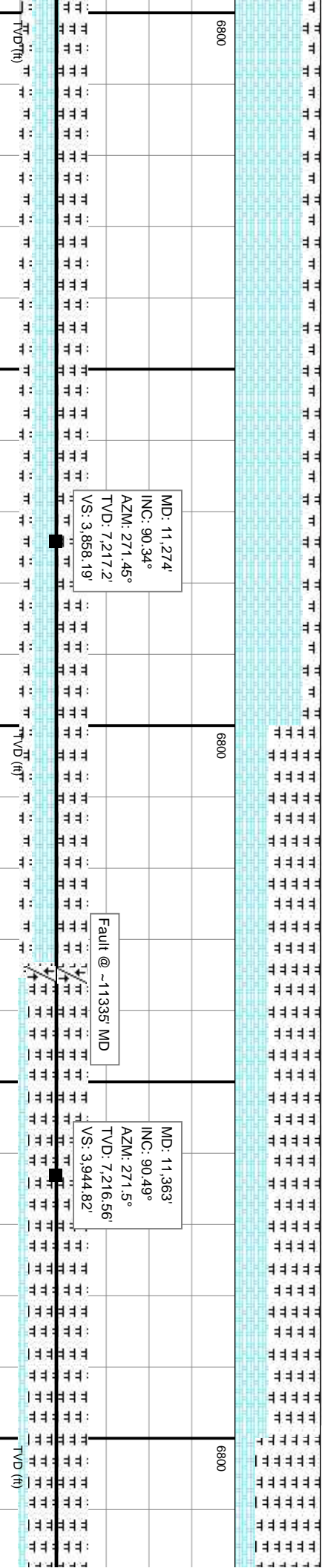
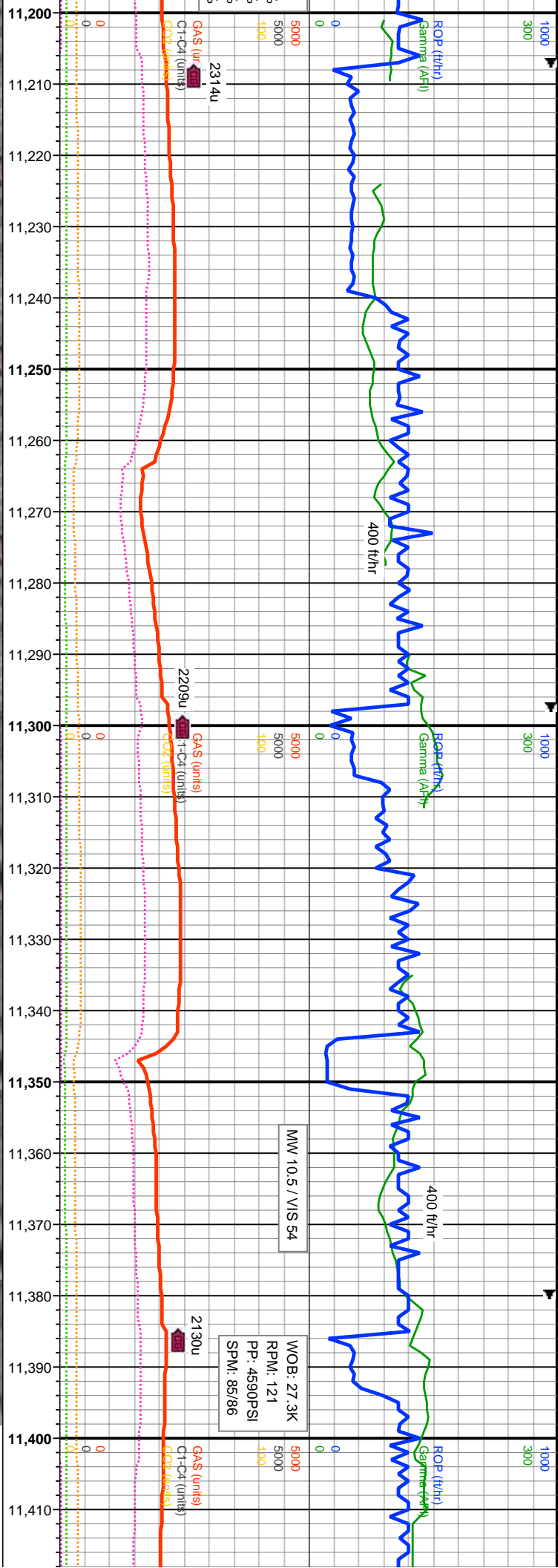


80% CHK: medgy-gy/brn, occ ltr gy, com intbd w/ mrl, mod sft-firm, sb blkly, rthy-sb wxy, v  
calc: 20% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkly-ang, ip amor, rthy, slty, v arg, calc

80% CHK: medgy-gy/brn, occ ltr gy, com intbd w/ mrl, mod sft-firm, sb blkly, rthy-sb wxy, v  
calc: 20% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkly-ang, ip amor, rthy, slty, v arg, calc

80% CHK: medgy-gy/brn, occ ltr gy, com intbd w/ mrl, mod sft-firm, sb blkly, rthy-sb wxy, v  
calc: 20% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkly-ang, ip amor, rth



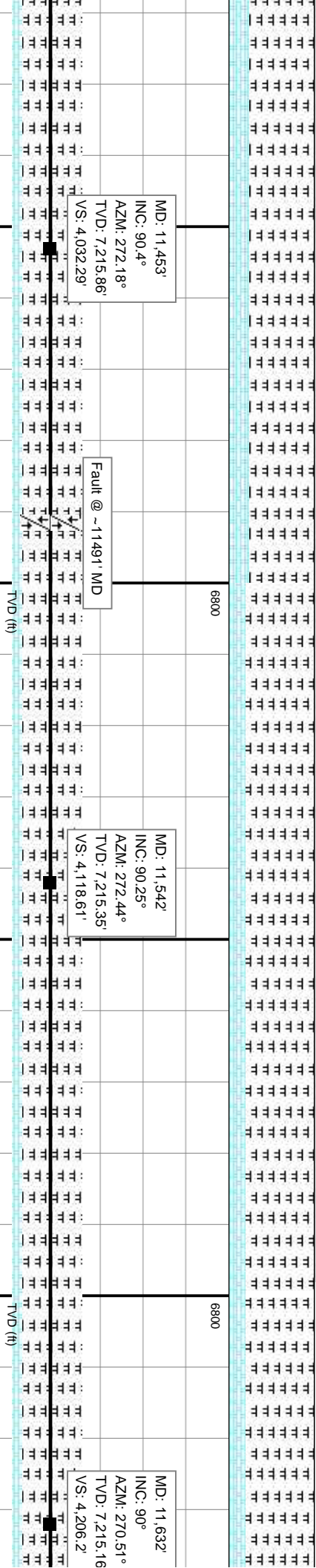
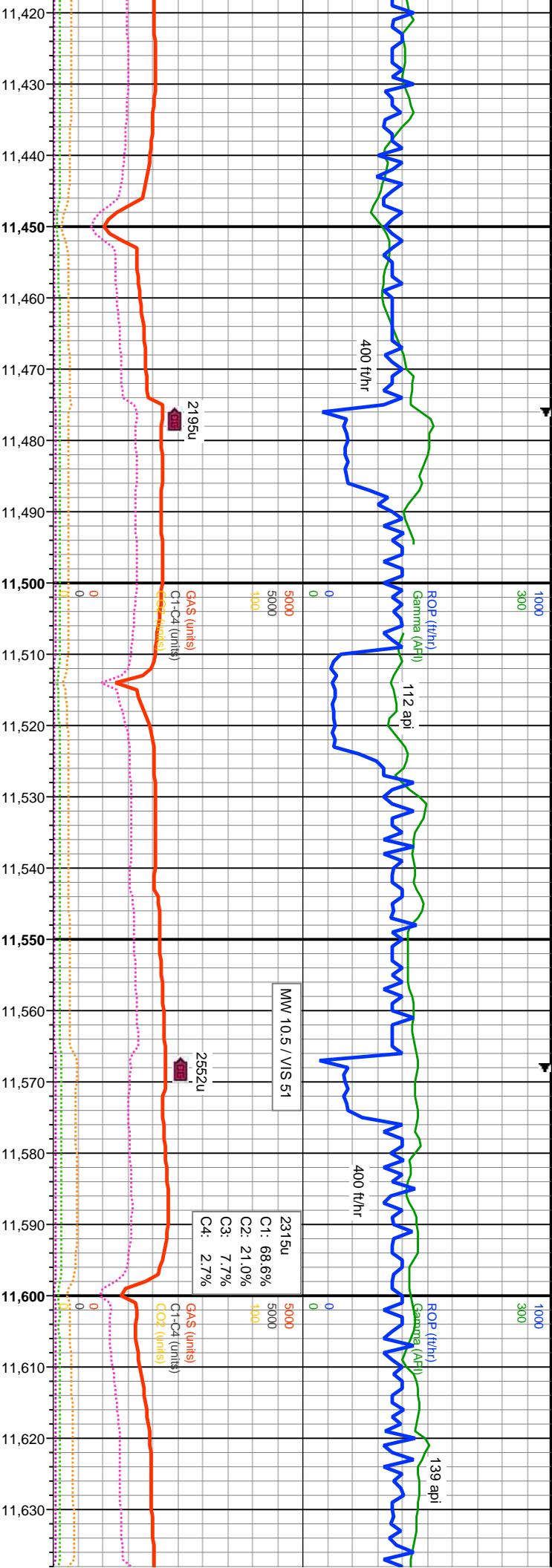


80% CHK: medgy-gy/brn, occ ltr gy, com intbd w/ mrl, mod sft-frm, sb blkly, rthy-sb wxy, v calc; 20% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkly-ang, ip amor, rthy, slty, v arg, calc

60% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkly-ang, ip amor, rthy, slty, v arg, rr inoc fos frags, v rr dissm pyr, calc; 40% CHK: medgy-gy/brn, occ ltr gy, com intbd w/ mrl, mod sft-frm, sb blkly, rthy-sb wxy, v calc; tr bent

75% MRLST: frags, v rr dissi sft-frm, sb blkly

7800  
7800  
7800

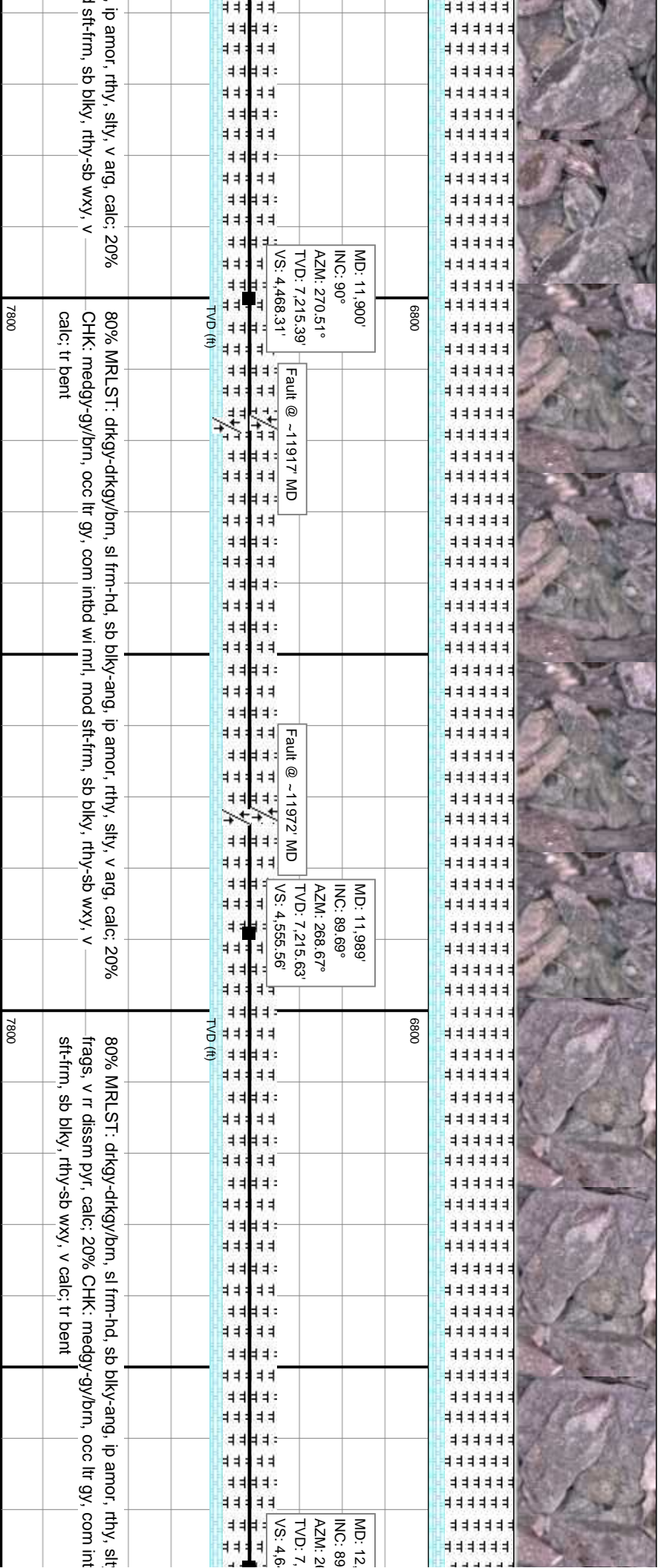
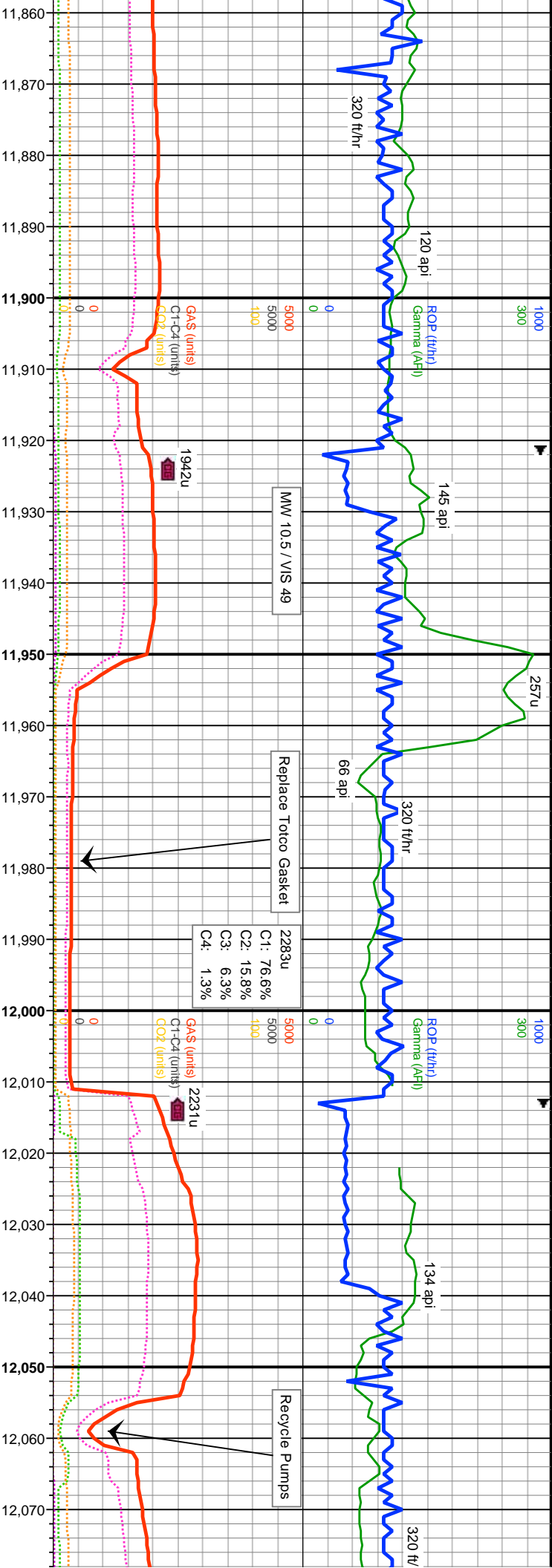


dkgy-dkgy/brn, sl frm-hd, sb blk-y-ang, ip amor, rthy, stly, v arg, tr inoc fos  
pyr, calc; 25% CHK: medgy-gy/brn, occ ltr gy, com inbtd wi mrl, mod  
rthy-sb wxy, v calc; tr bent

80% MRLST: dkgy-dkgy/brn, sl frm-hd, sb blk-y-ang, ip amor, rthy, stly, v arg, calc; 20%  
CHK: medgy-gy/brn, occ ltr gy, com inbtd wi mrl, mod sft-frm, sb blk-y, rthy-sb wxy, v  
calc; tr bent

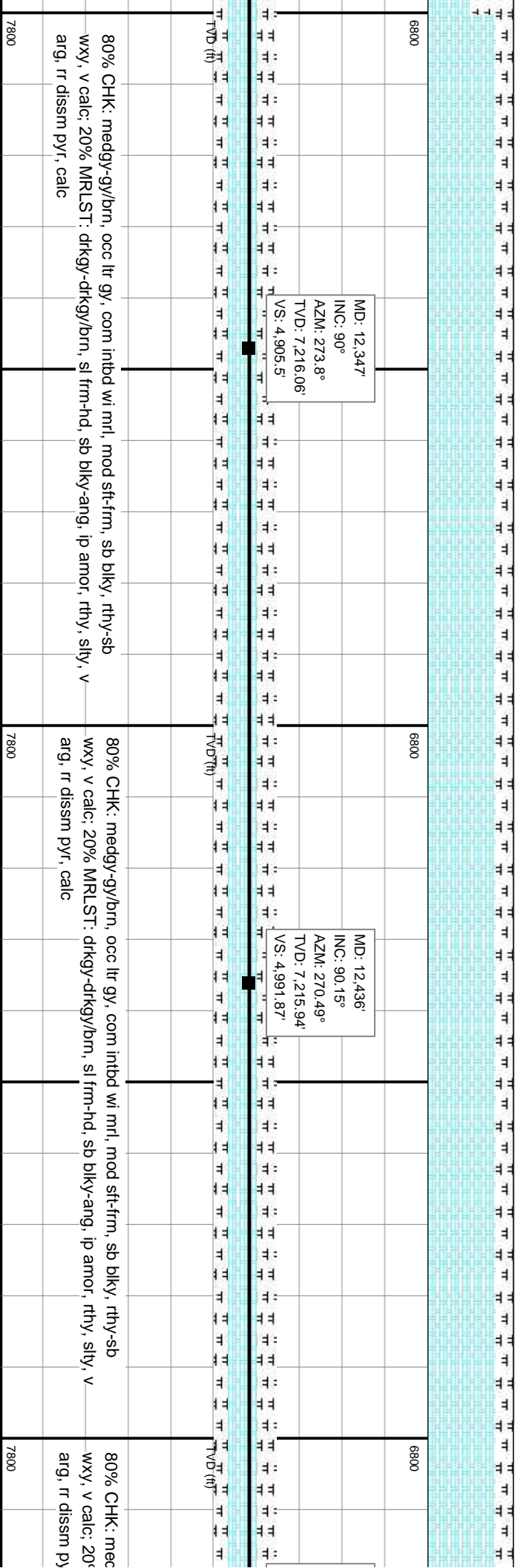
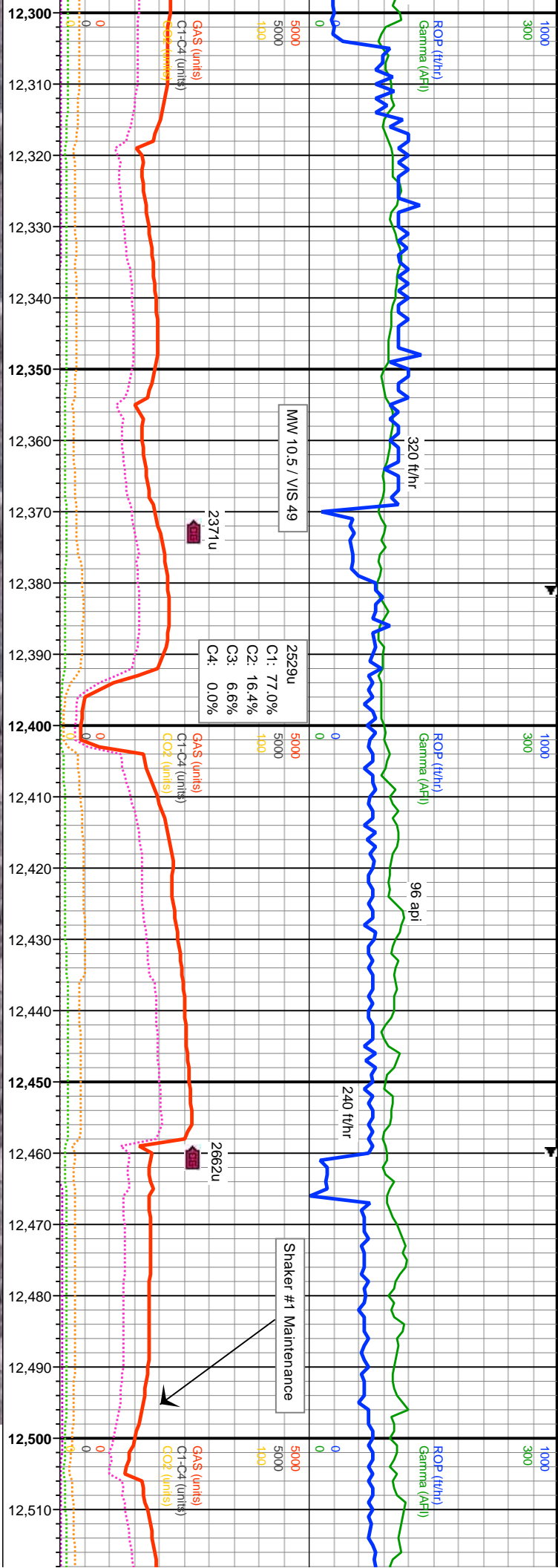
80% MRLST: dkgy-dkgy/brn, sl fr  
CHK: medgy-gy/brn, occ ltr gy, con  
calc; tr bent



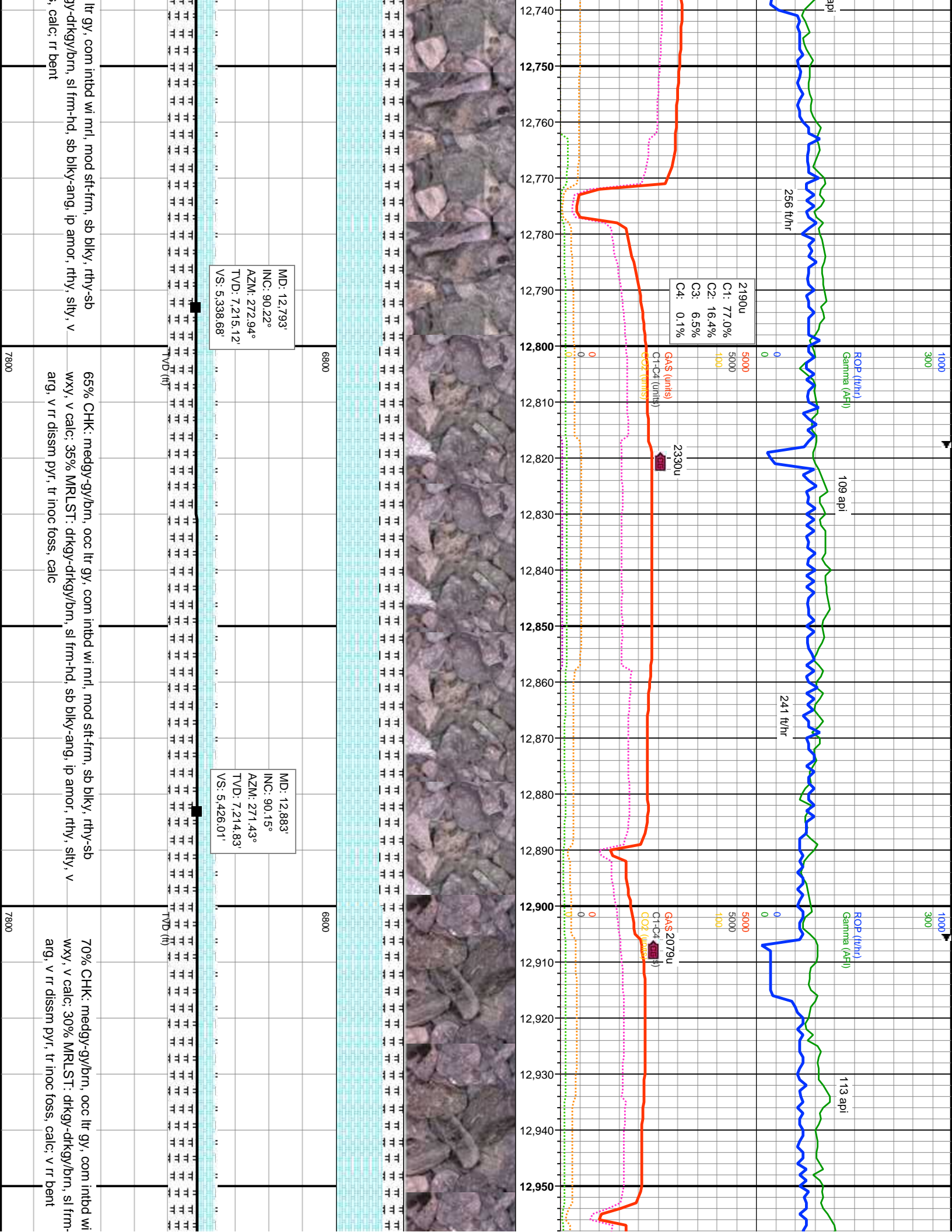












2190u  
 C1: 77.0%  
 C2: 16.4%  
 C3: 6.5%  
 C4: 0.1%

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

MD: 12,793'  
 INC: 90.22°  
 AZM: 272.94°  
 TVD: 7,215.12'  
 VS: 5,338.68'

MD: 12,883'  
 INC: 90.15°  
 AZM: 271.43°  
 TVD: 7,214.83'  
 VS: 5,426.01'

MD: 12,883'  
 INC: 90.15°  
 AZM: 271.43°  
 TVD: 7,214.83'  
 VS: 5,426.01'

tr gy, com intbd wi mrl, mod sft-frn, sb blk, rthy, sb  
 drkgy/brn, sl frm-hd, sb blk-ang, ip amor, rthy, silty, v  
 calc; rr bent

65% CHK: medgy-gy/brn, occ tr gy, com intbd wi mrl, mod sft-frn, sb blk, rthy, sb  
 wxy, v calc; 35% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blk-ang, ip amor, rthy, silty, v  
 arg, v rr dissm pyr, tr inoc foss, calc

70% CHK: medgy-gy/brn, occ tr gy, com intbd wi  
 wxy, v calc; 30% MRLST: drkgy-drkgy/brn, sl frm-  
 arg, v rr dissm pyr, tr inoc foss, calc; v rr bent

TVD (ft)

TVD (ft)

6800

6800

7800

7800

1000  
300

1000  
300

256 ft/hr

ROP (ft/hr)  
Gamma (API)

109 api

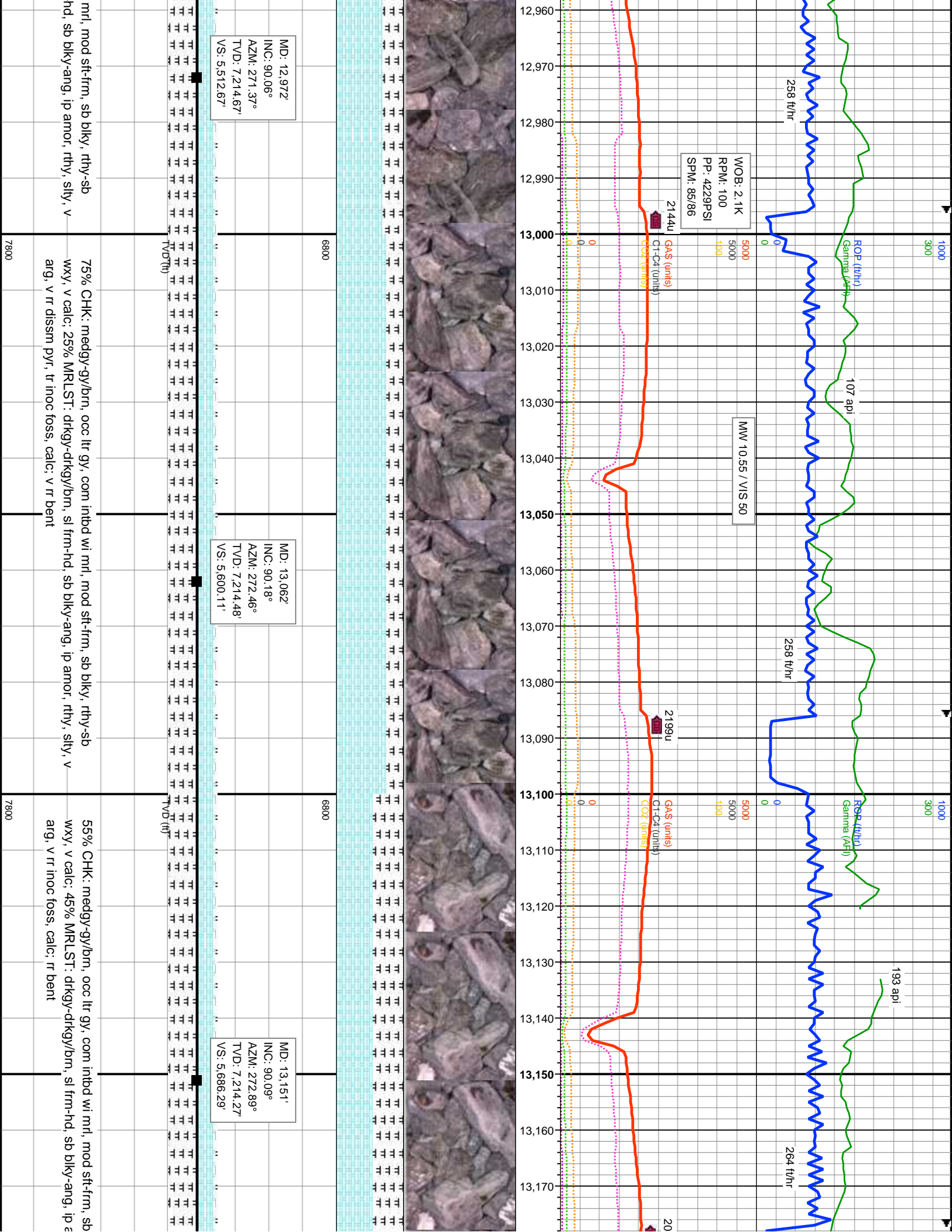
241 ft/hr

ROP (ft/hr)  
Gamma (API)

113 api

2330u

GAS 2079u  
C1-C4 (units)  
C2 (units)



WOB: 2.1K  
RPM: 100  
PP: 4229PSI  
SPM: 85/86

MW 10.55 / VIS 50

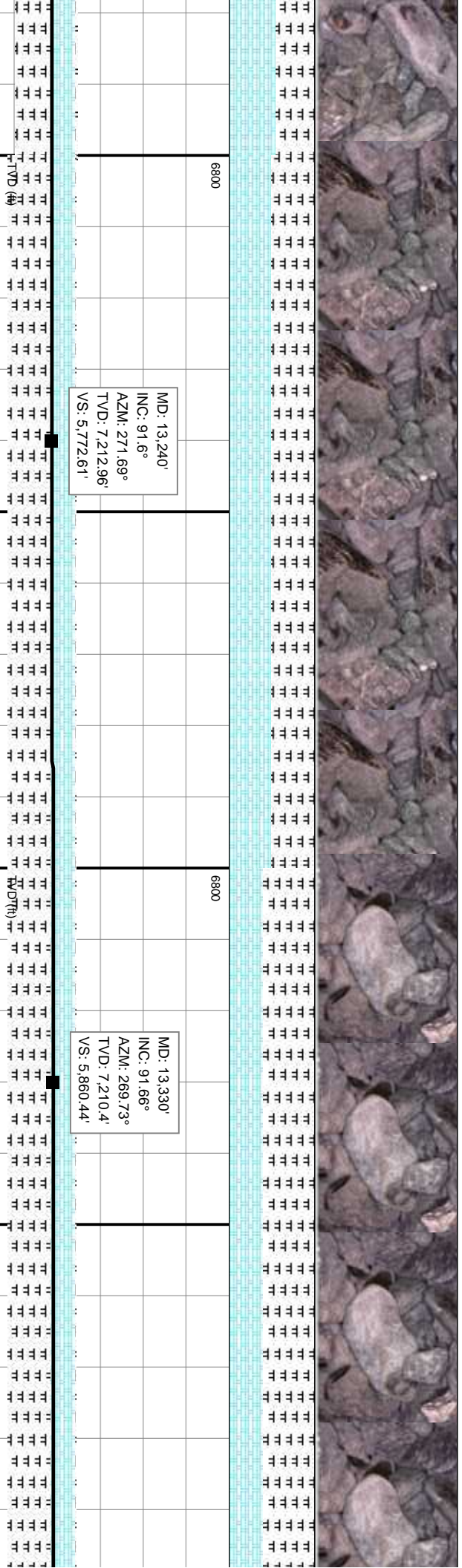
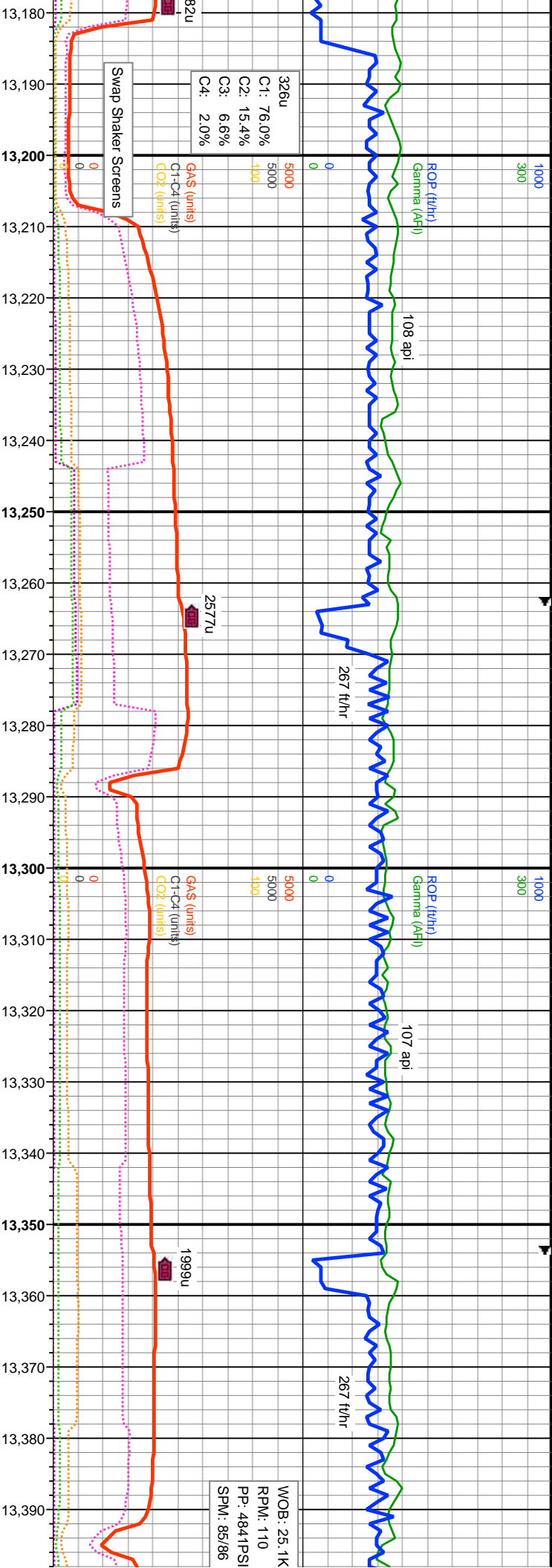
MD: 12.972'  
INC: 90.06°  
AZM: 271.37°  
TVD: 7.214.67'  
VS: 5.512.67'

MD: 13.062'  
INC: 90.18°  
AZM: 272.46°  
TVD: 7.214.48'  
VS: 5.600.11'

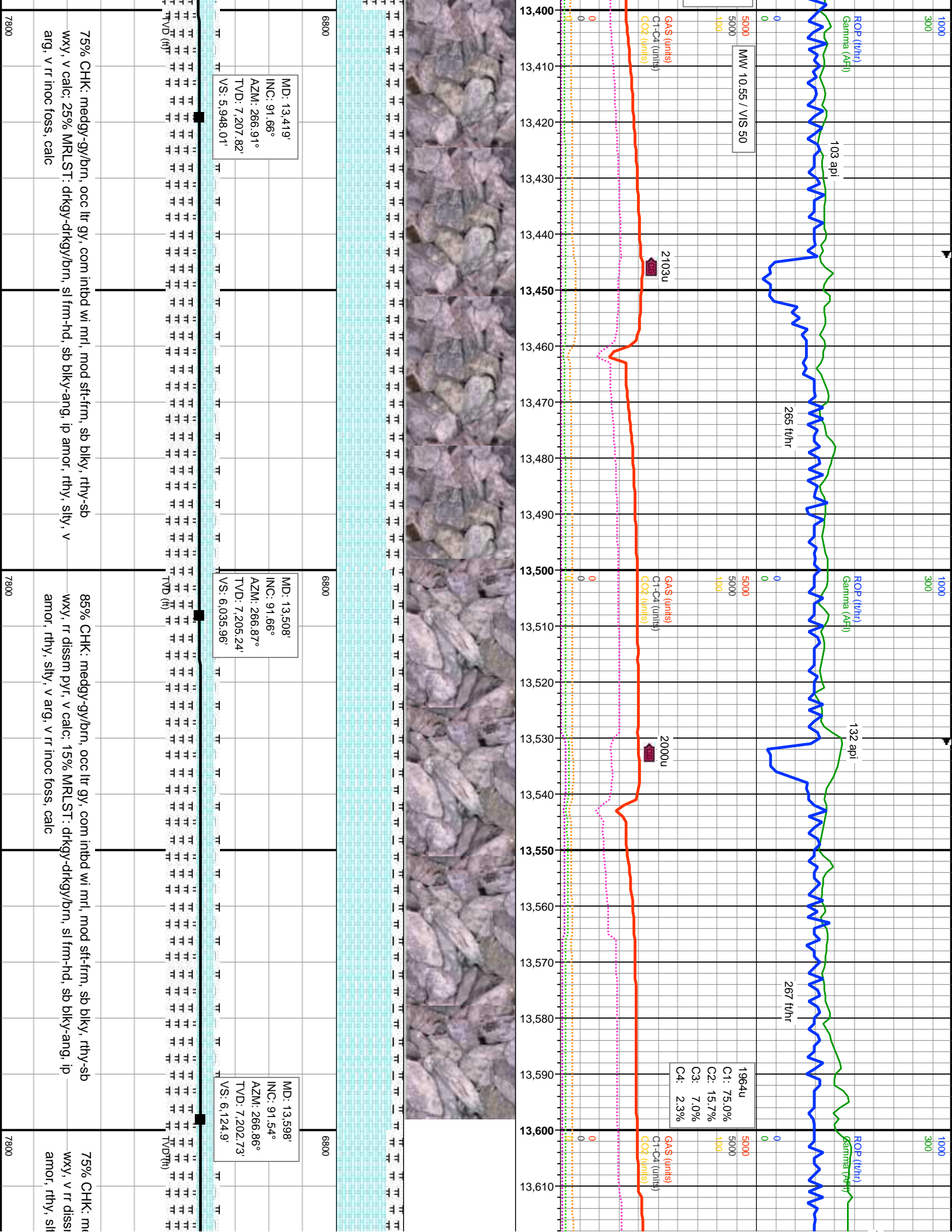
MD: 13.151'  
INC: 90.09°  
AZM: 272.89°  
TVD: 7.214.27'  
VS: 5.686.29'

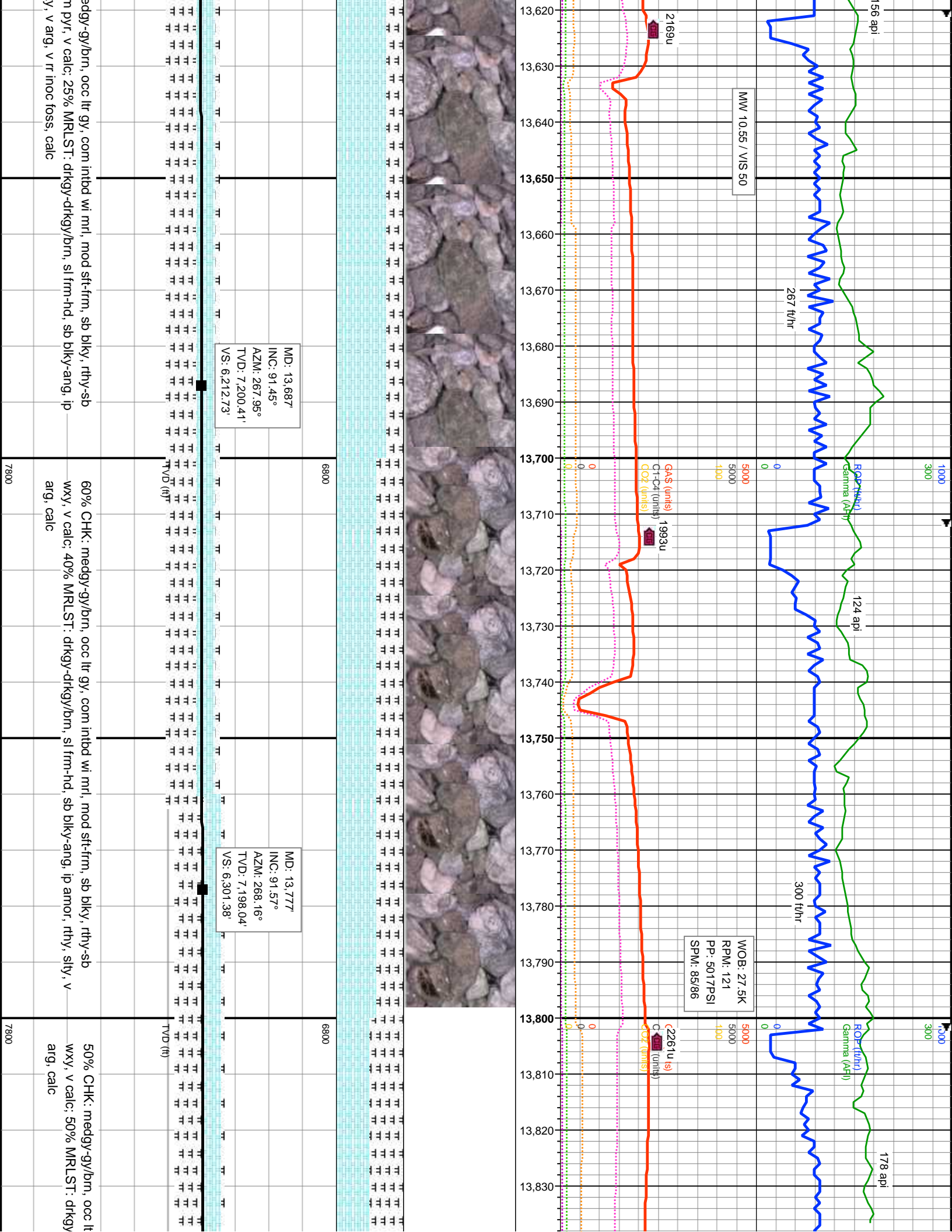
75% CHK: medgy-gy/brn, occ ltr gy, com intbd wi mrl, mod stf-firm, sb blkly, rthy-sb wxy, v calc; 25% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkly-ang, ip amor, rthy, slty, v arg, v rr dissm pyr, tr inoc foss, calc; v rr bent

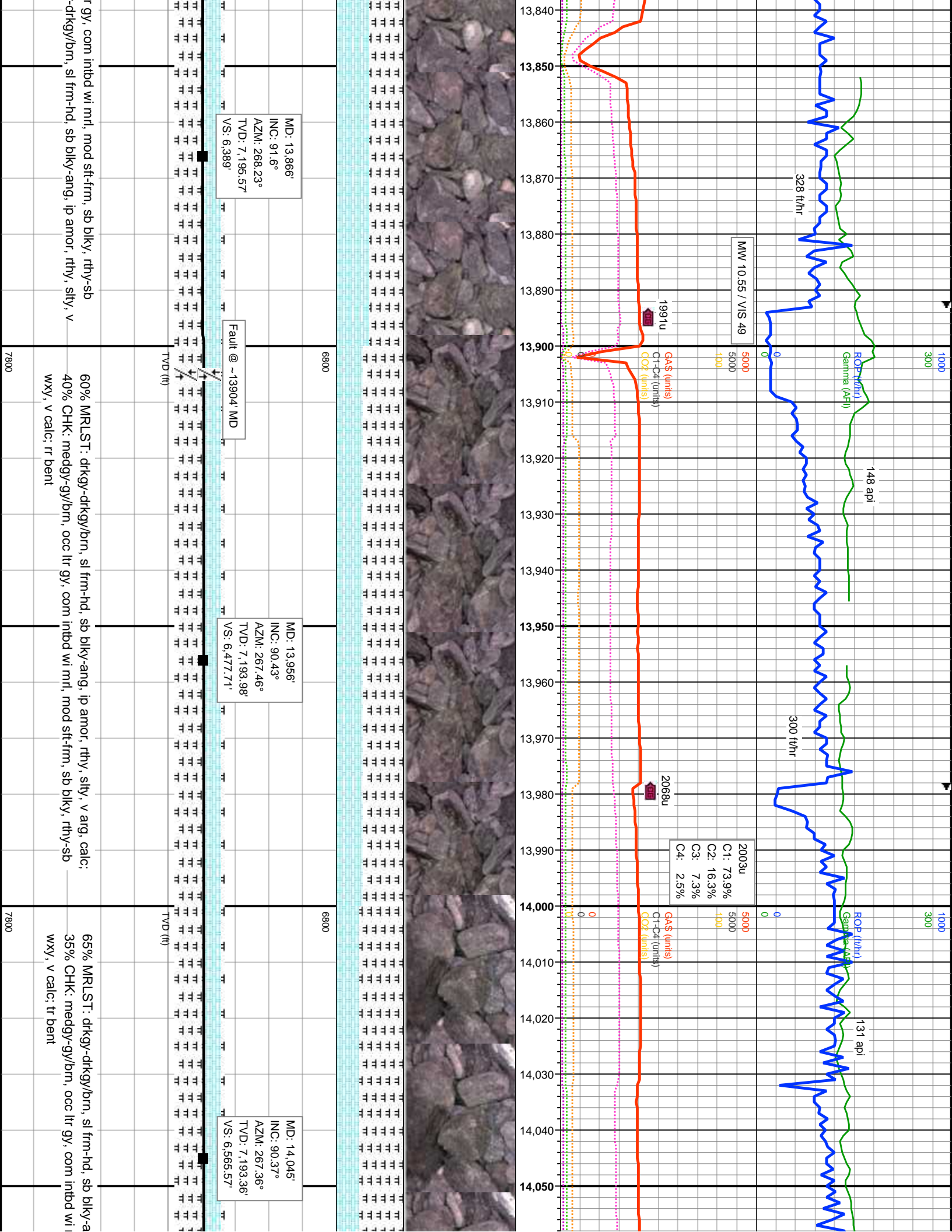
55% CHK: medgy-gy/brn, occ ltr gy, com intbd wi mrl, mod stf-firm, sb blkly, rthy-sb wxy, v calc; 45% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkly-ang, ip amor, rthy, slty, v arg, v rr inoc foss, calc; rr bent



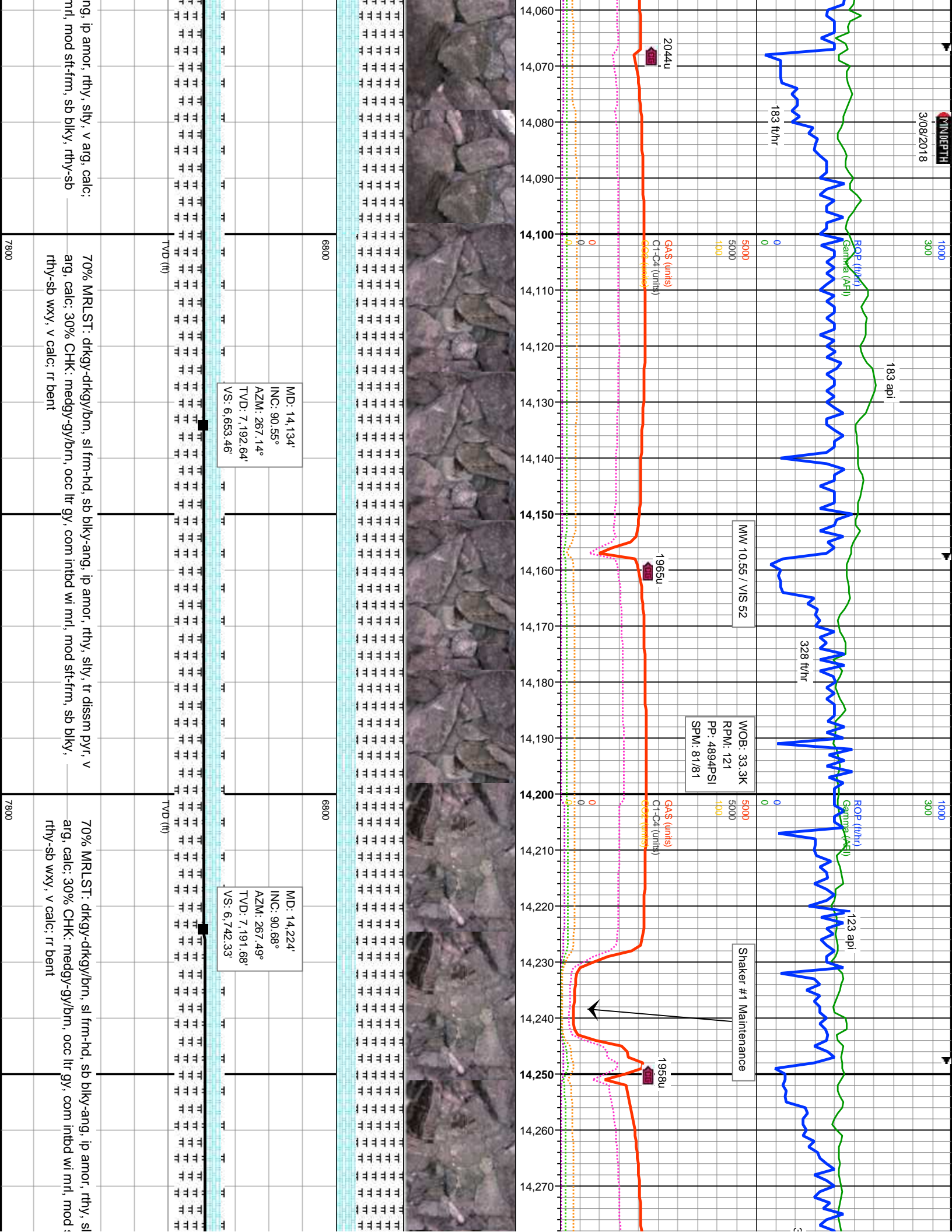
6800	MD: 13.240' INC: 91.6° AZM: 271.69° TVD: 7.212.96' VS: 5.772.61'	blky, rthy-sb amor, rthy, silty, v	50% CHK: medgy-gy/brn, occ ltr gy, com inbda wi mrl, mod sftfrm, sb blkly, rthy-sb wxy, v calc; 50% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkly-ang, ip amor, rthy, silty, v arg, v rr inoc foss, calc; rr bent
6800	MD: 13.330' INC: 91.66° AZM: 269.73° TVD: 7.210.4' VS: 5.860.44'	HVD(TH)	60% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkly-ang, ip amor, rthy, silty, v arg, v rr inoc foss, calc; 40% CHK: medgy-gy/brn, occ ltr gy, com inbda wi mrl, mod sftfrm, sb blkly, rthy-sb wxy, v calc; rr bent
7800			











3/08/2018

1000  
300

183 api

0  
5000  
5000  
100

MW 10.55 / VIS 52

WOB: 33.3K  
RPM: 121  
PP: 4894PSI  
SPM: 81/81

1000  
300

123 api

Shaker #1 Maintenance

1958u

14,270

6800

MD: 14,134'  
INC: 90.55°  
AZM: 267.14°  
TVD: 7,192.64'  
VS: 6,653.46'

6800

MD: 14,224'  
INC: 90.68°  
AZM: 267.49°  
TVD: 7,191.68'  
VS: 6,742.33'

TVD (ft)

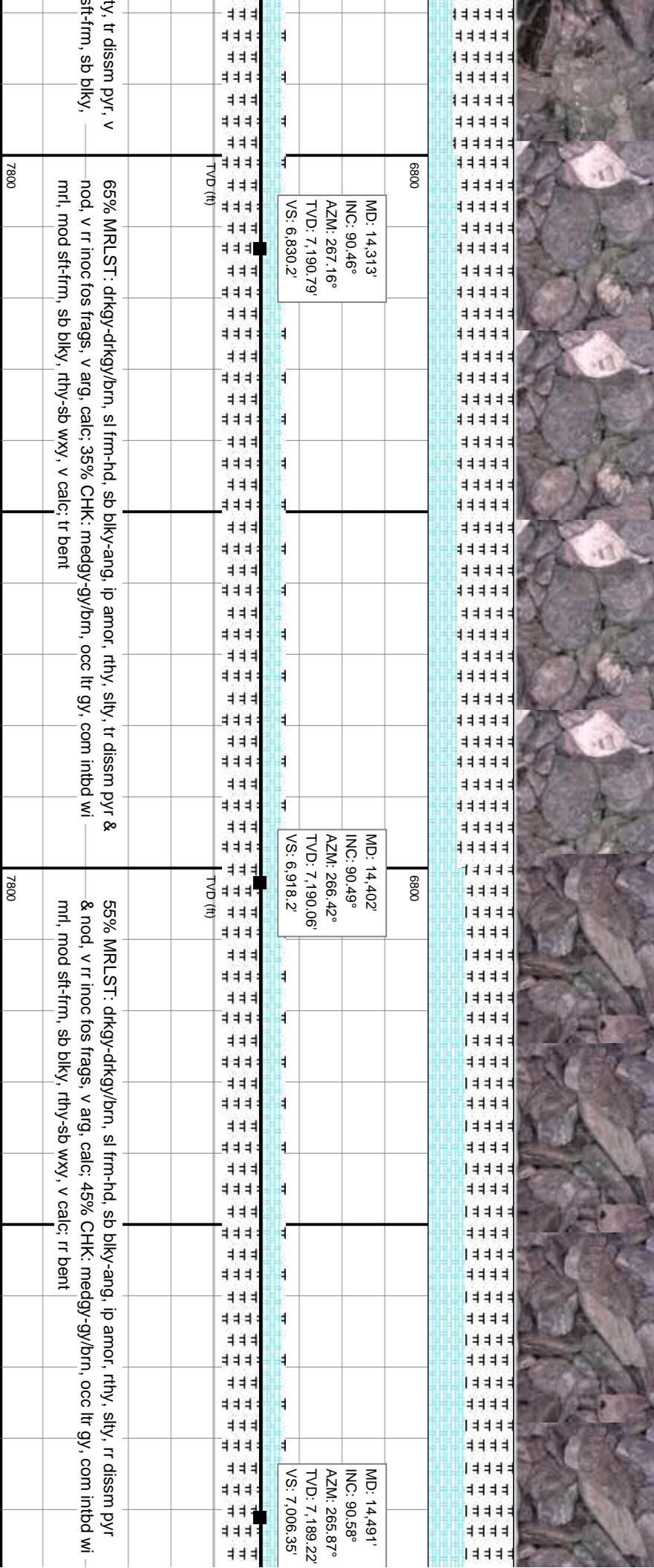
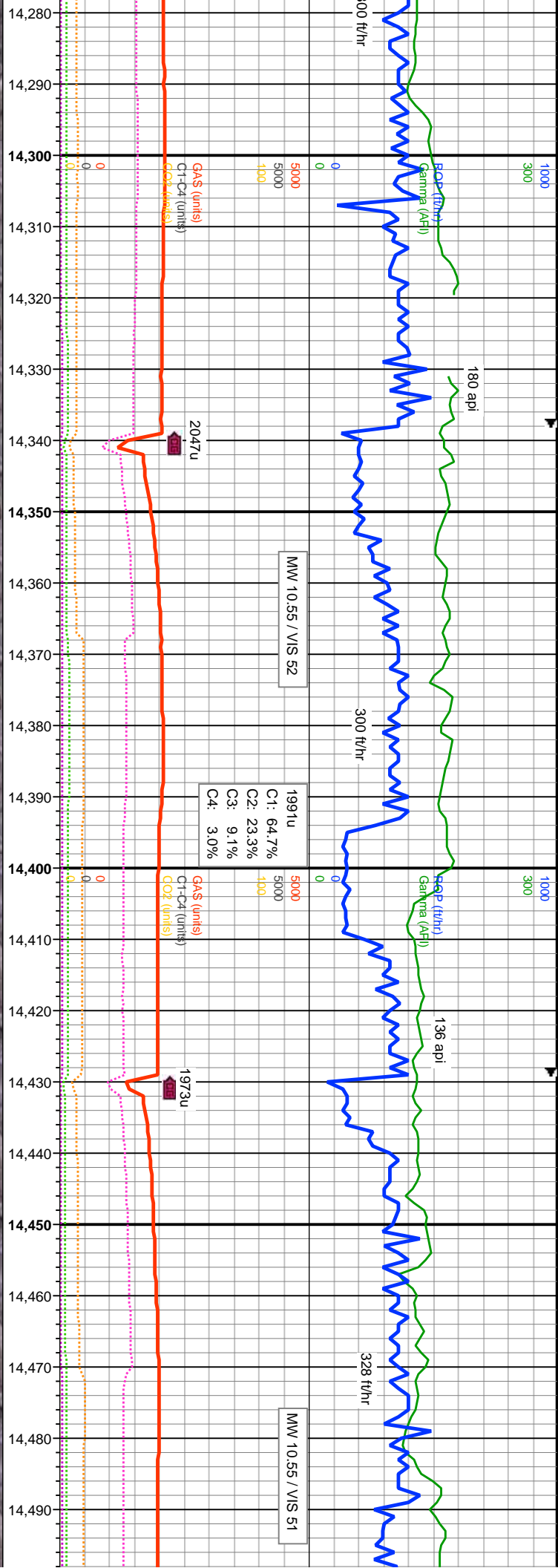
TVD (ft)

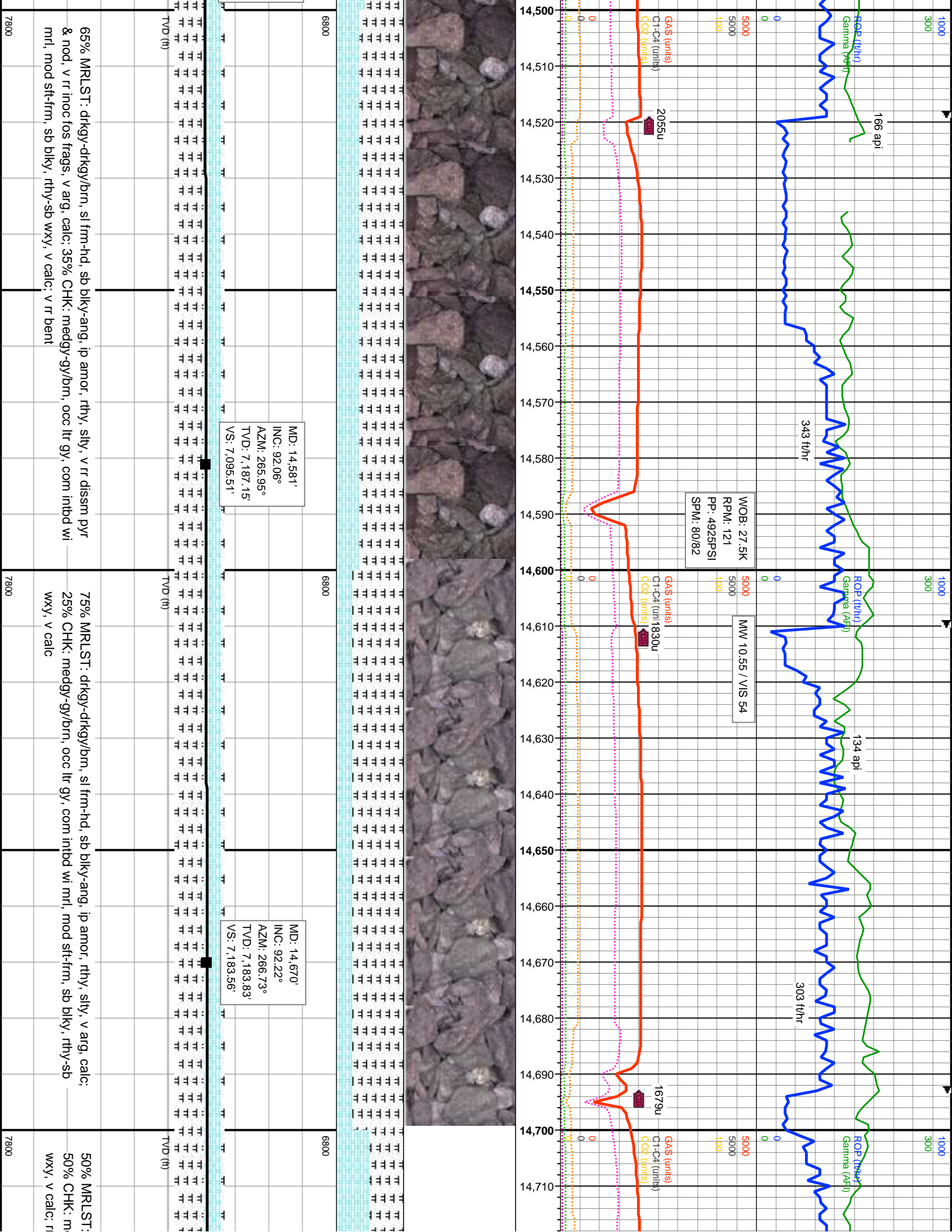
70% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blk-ang, ip amor, rthy, slty, tr dissm pyr, v arg, calc; 30% CHK: medgy-gy/brn, occ ltr gy, com intbd wi mrl, mod sft-frm, sb blk, rthy-sb wxy, v calc; rr bent

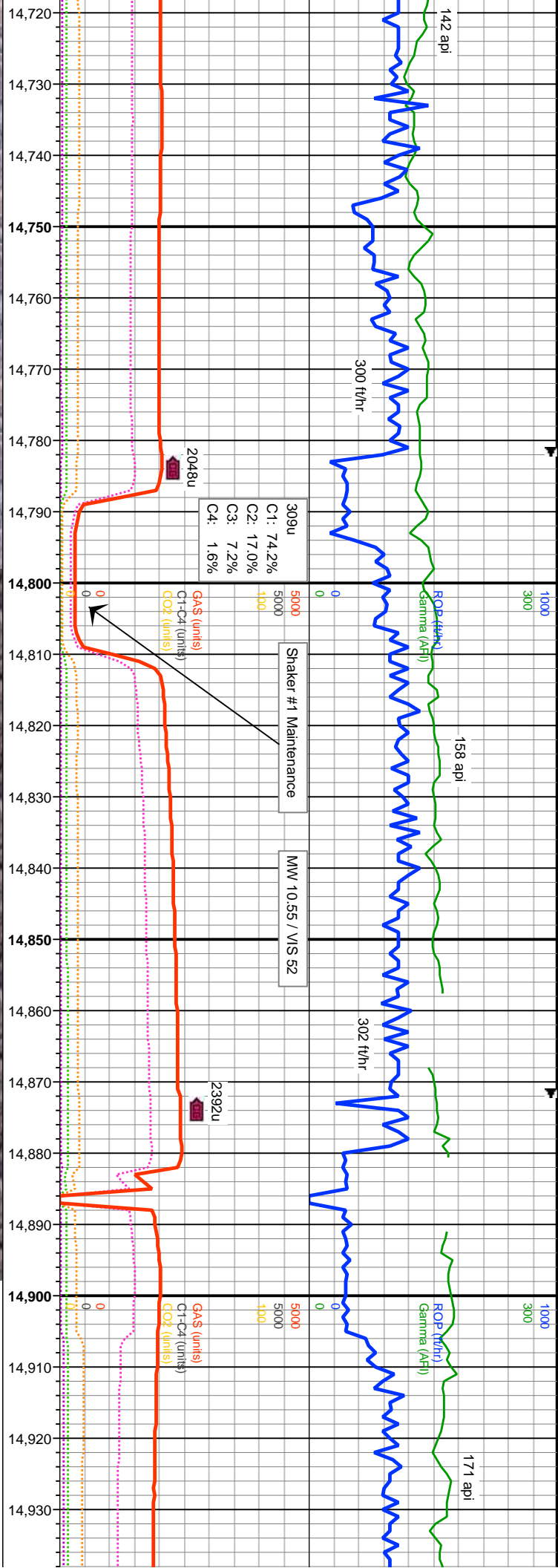
70% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blk-ang, ip amor, rthy, slty, tr dissm pyr, v arg, calc; 30% CHK: medgy-gy/brn, occ ltr gy, com intbd wi mrl, mod sft-frm, sb blk, rthy-sb wxy, v calc; rr bent

7800

7800







MD: 14,760'  
INC: 92.22°  
AZM: 267.57°  
TVD: 7,180.34'  
VS: 7,272.4'

MD: 14,849'  
INC: 92.22°  
AZM: 269.5°  
TVD: 7,176.89'  
VS: 7,359.89'

MD: 14,930'  
INC: 92.22°  
AZM: 267.57°  
TVD: 7,180.34'  
VS: 7,272.4'

TVD (ft)

TVD (ft)

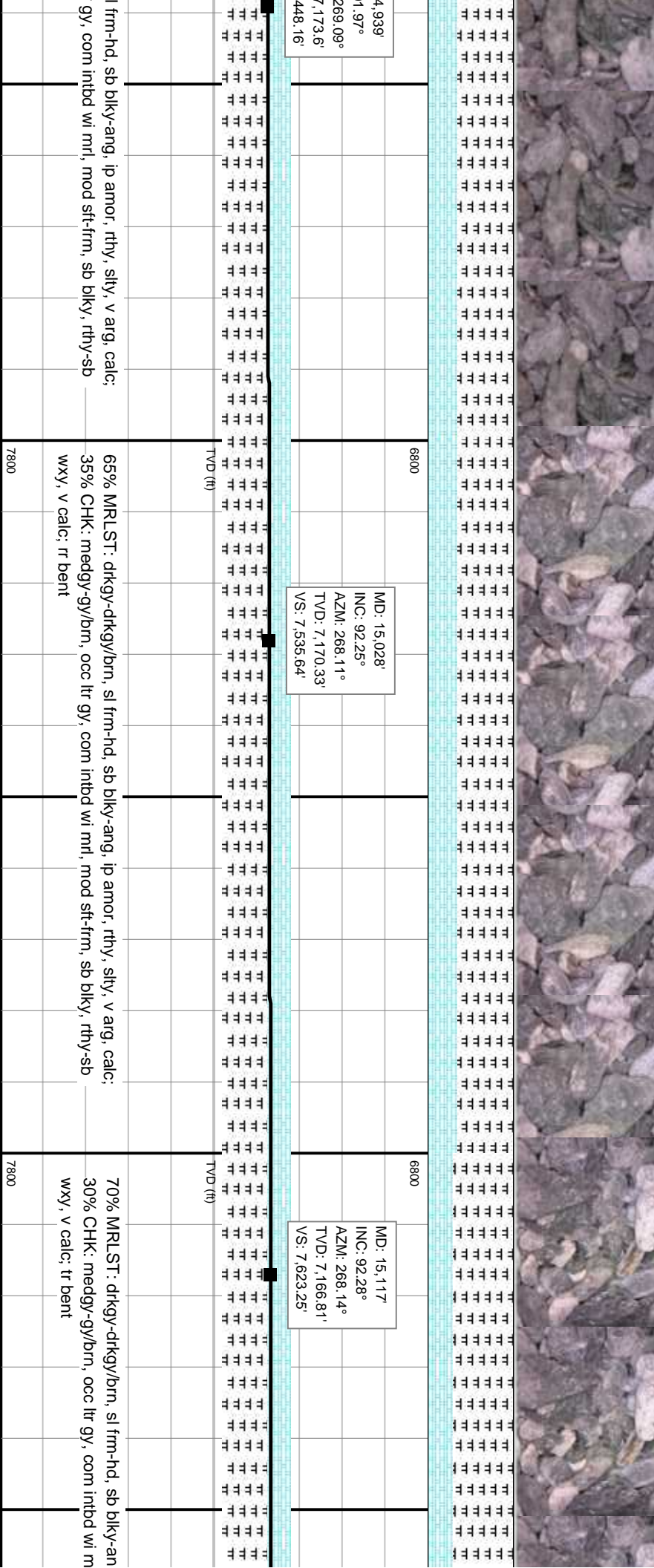
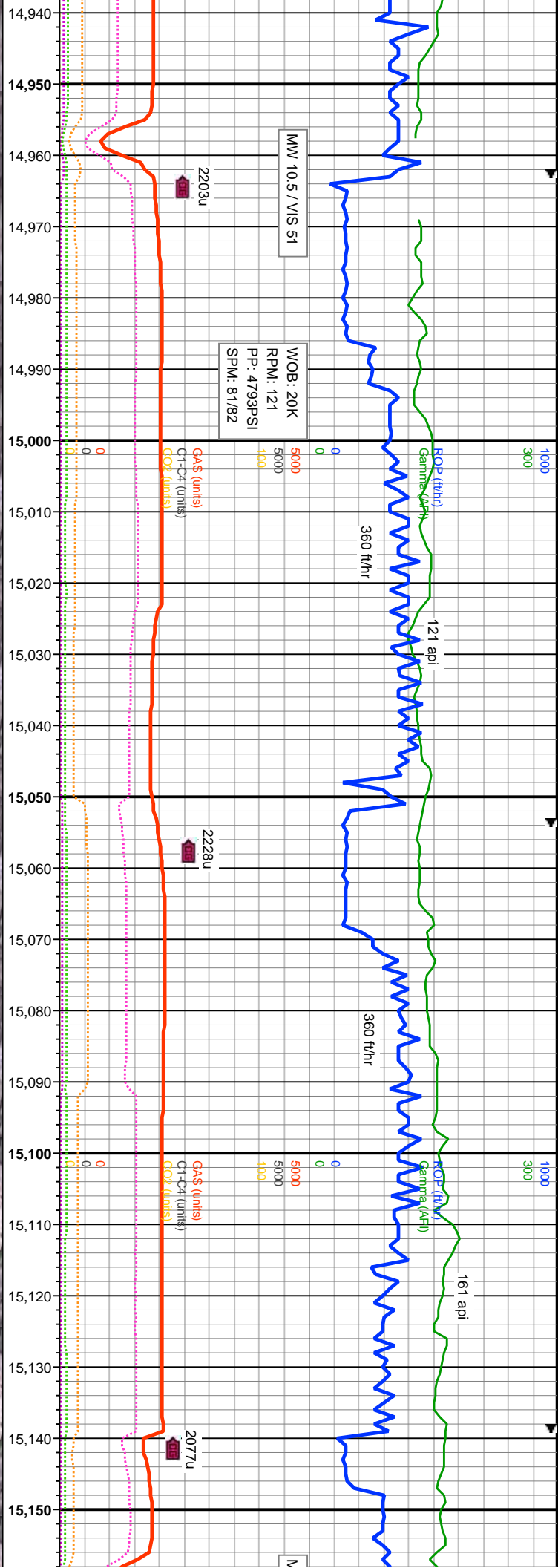
drkgy-drkgy/brn, sl frm-hd, sb blk-ang, ip amor, rhy, sly, v arg, calc;  
medgy-gy/brn, occ thr gy, com inbnd wi mrl, mod sft-frm, sb blk-ang, rhy-sb bent

70% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blk-ang, ip amor, rhy, sly, v arg, calc;  
30% CHK: medgy-gy/brn, occ thr gy, com inbnd wi mrl, mod sft-frm, sb blk-ang, rhy-sb wxy, v calc; tr bent

65% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blk-ang, ip amor, rhy, sly, v arg, calc;  
35% CHK: medgy-gy/brn, occ thr gy, com inbnd wi mrl, mod sft-frm, sb blk-ang, rhy-sb wxy, v calc; rr bent

7800

7800



4,939  
1.97°  
2669.09°  
,173.6'  
4448.16'

MD: 15.028'  
INC: 92.25°  
AZM: 268.11°  
TVD: 7,170.33'  
VS: 7,535.64'

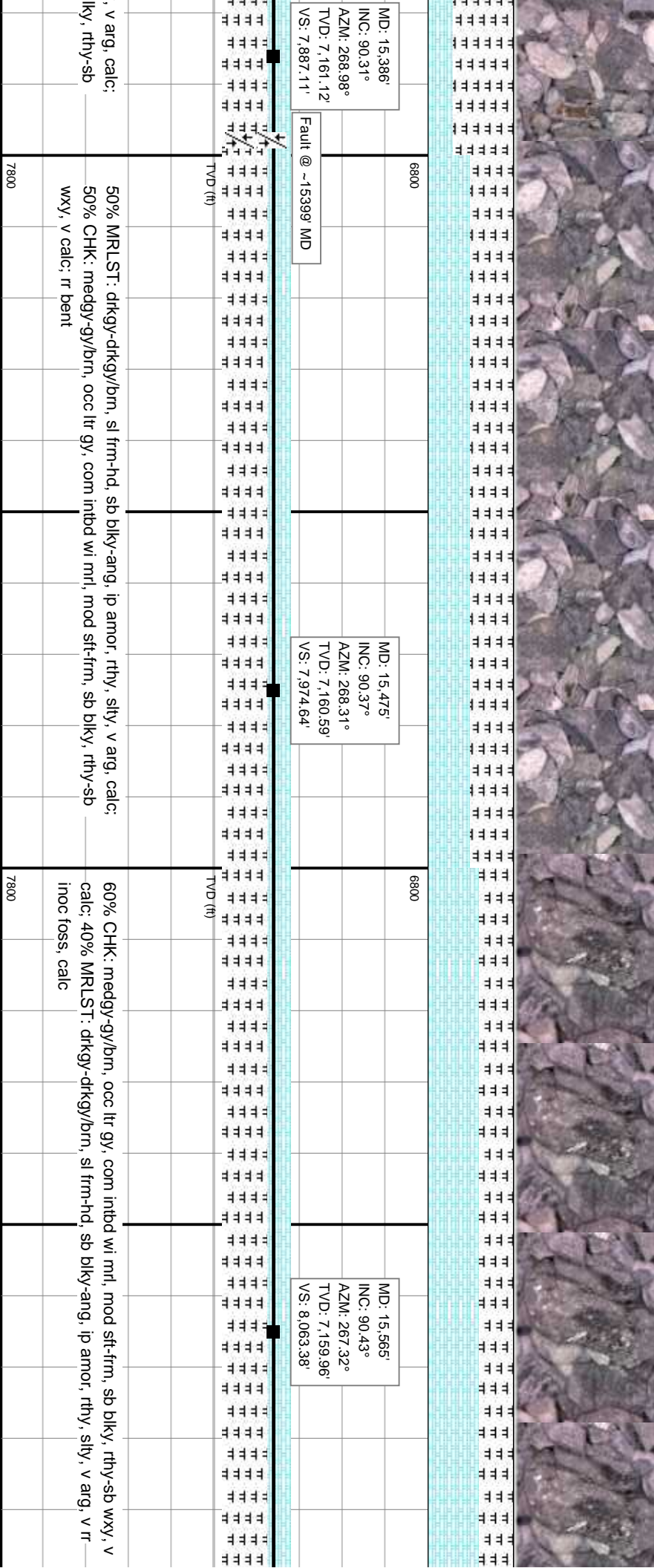
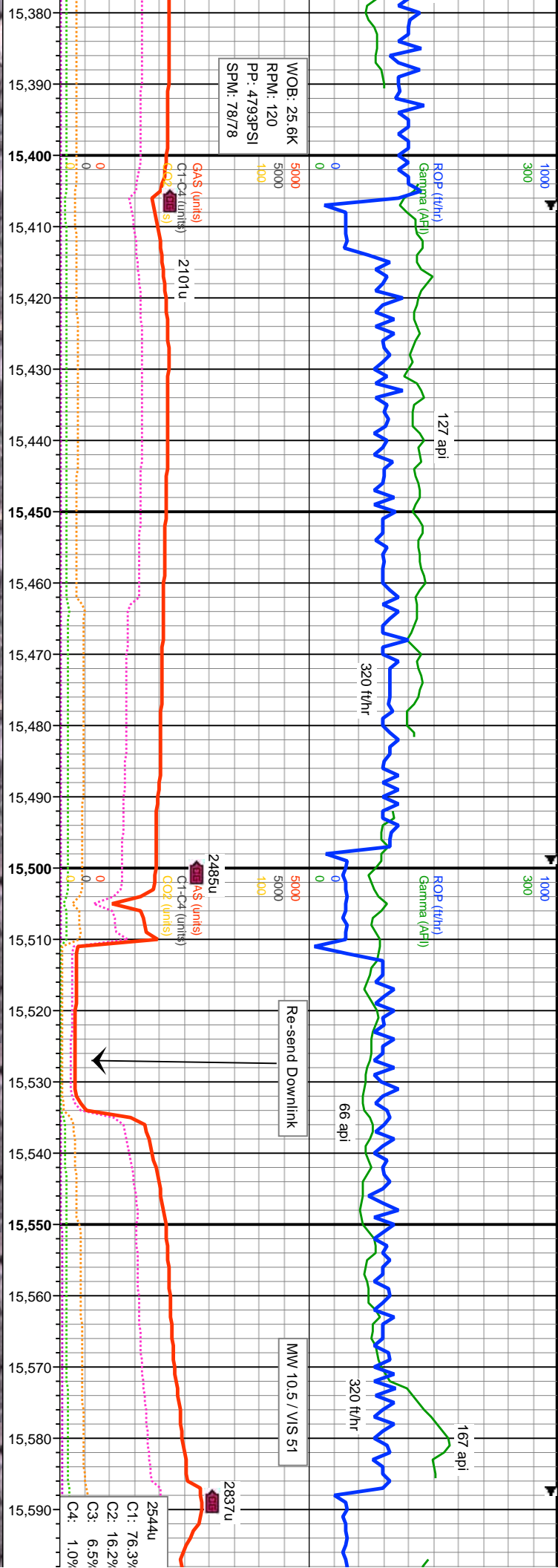
MD: 15.117'  
INC: 92.28°  
AZM: 268.14°  
TVD: 7,166.81'  
VS: 7,623.25'

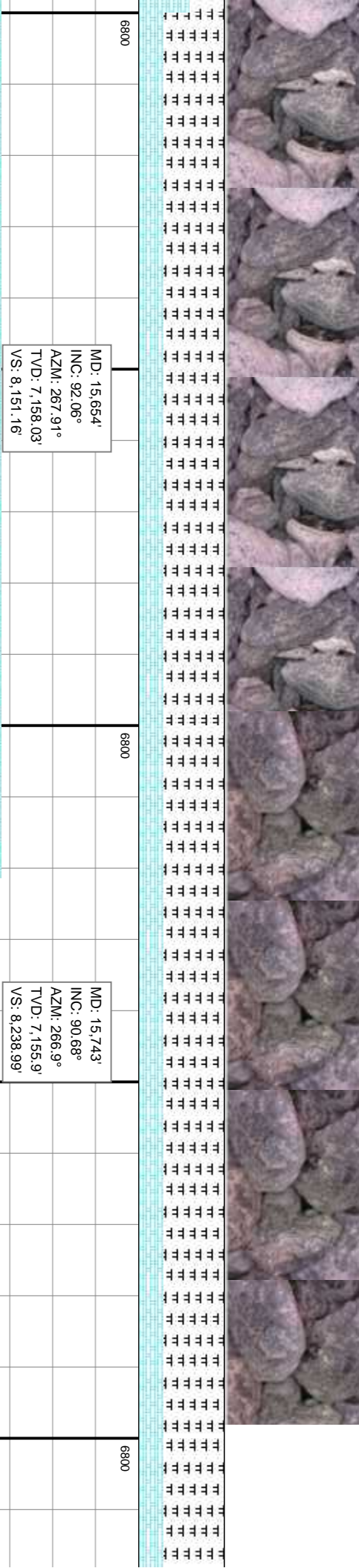
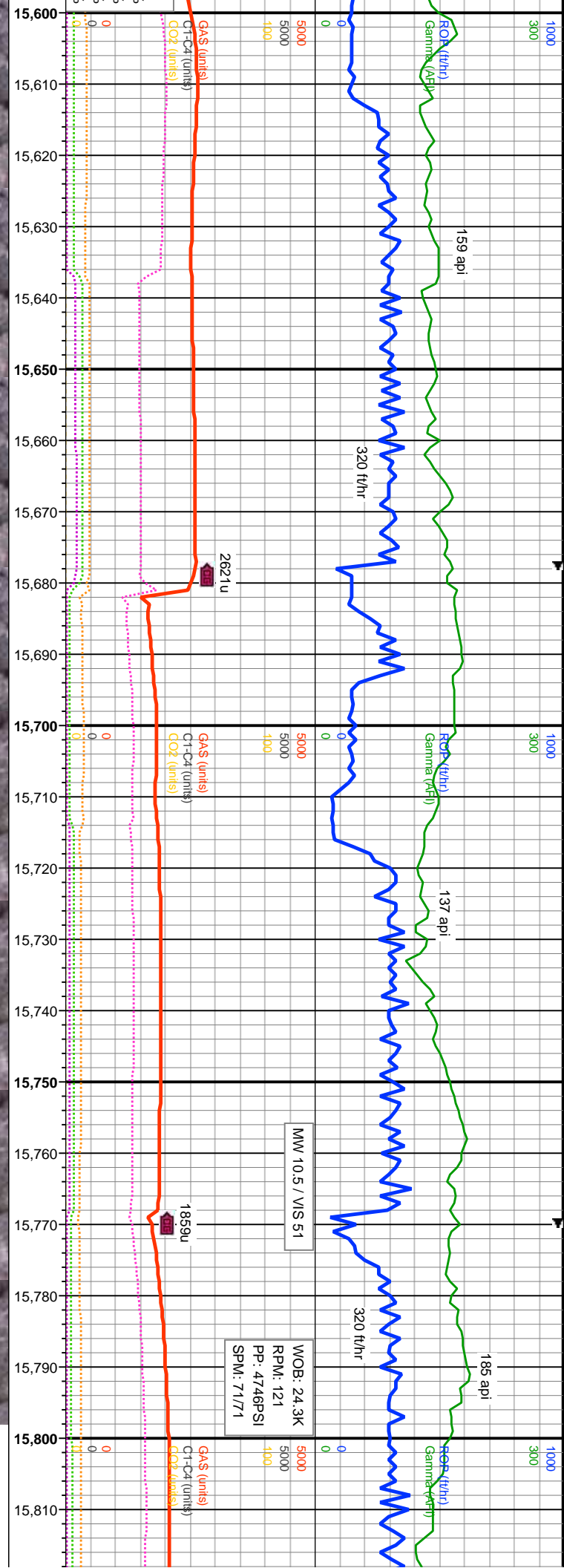
frm-hd, sb blkv-ang, ip amor, rthy, stly, v arg, calc;  
gy, com inbnd wi mrl, mod sft-frm, sb blkv, rthy-sb

65% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkv-ang, ip amor, rthy, stly, v arg, calc;  
35% CHK: medgy-gy/brn, occ ltr gy, com inbnd wi mrl, mod sft-frm, sb blkv, rthy-sb  
wxy, v calc; tr bent

70% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkv-ang, ip amor, rthy, stly, v arg, calc;  
30% CHK: medgy-gy/brn, occ ltr gy, com inbnd wi mrl, mod sft-frm, sb blkv, rthy-sb  
wxy, v calc; tr bent







70% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blk-y-ang, ip amor, rthy, stly, v arg, calc;  
 30% CHK: medgy-gy/brn, occ ltr gy, com inbnd w/ mrl, mod sft-frm, sb blk-y, rthy-sb  
 wxy, v calc; tr bent

70% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blk-y-ang, ip amor, rthy, stly, v arg, calc;  
 30% CHK: medgy-gy/brn, occ ltr gy, com inbnd w/ mrl, mod sft-frm, sb blk-y, rthy-sb  
 wxy, v calc; tr bent

70% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blk-y-ang, ip amor, rthy, stly, v arg, calc;  
 30% CHK: medgy-gy/brn, occ ltr gy, com inbnd w/ mrl, mod sft-frm, sb blk-y, rthy-sb  
 wxy, v calc; tr bent

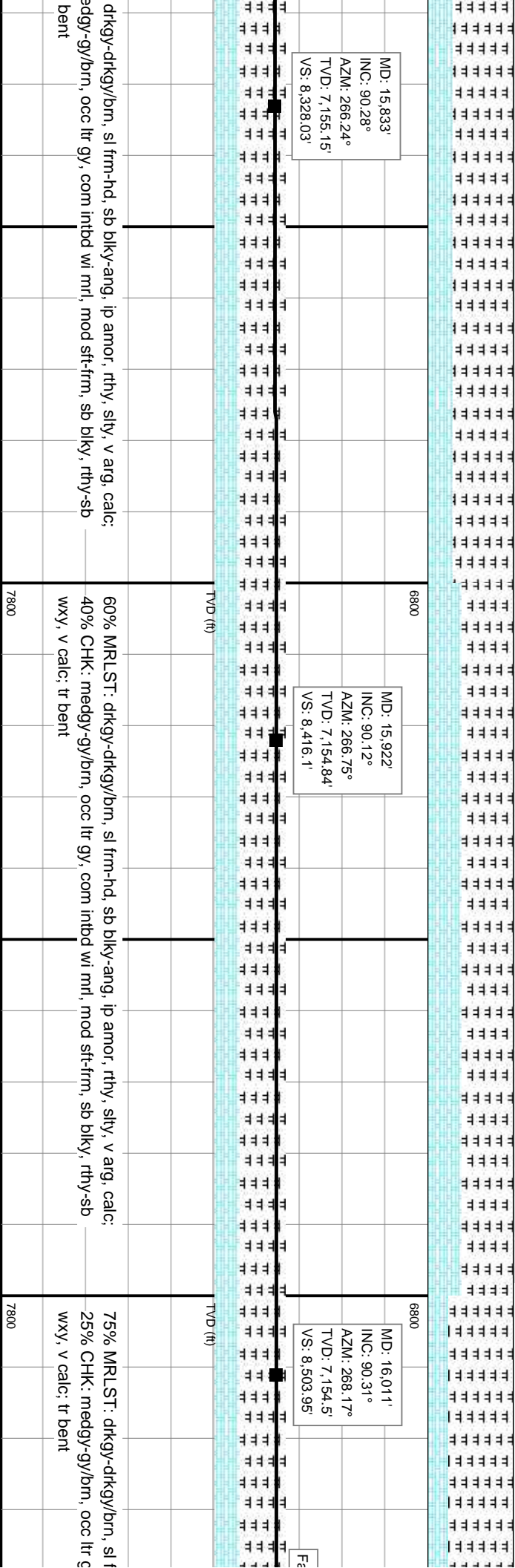
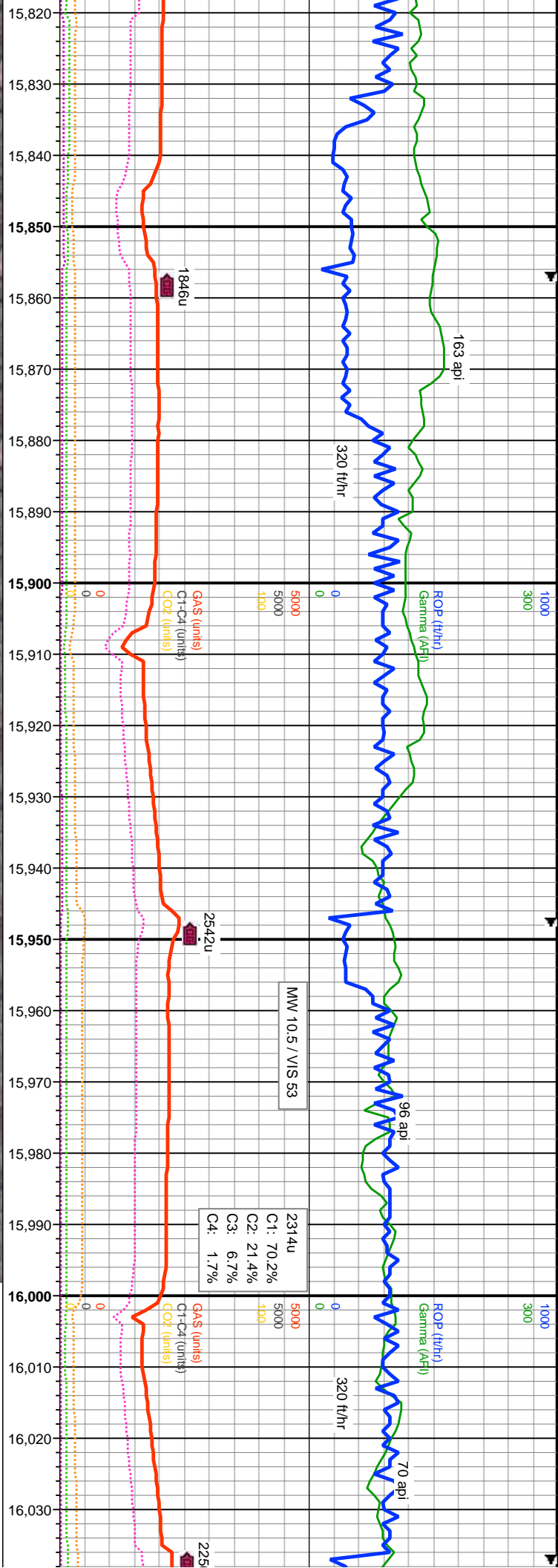
7800

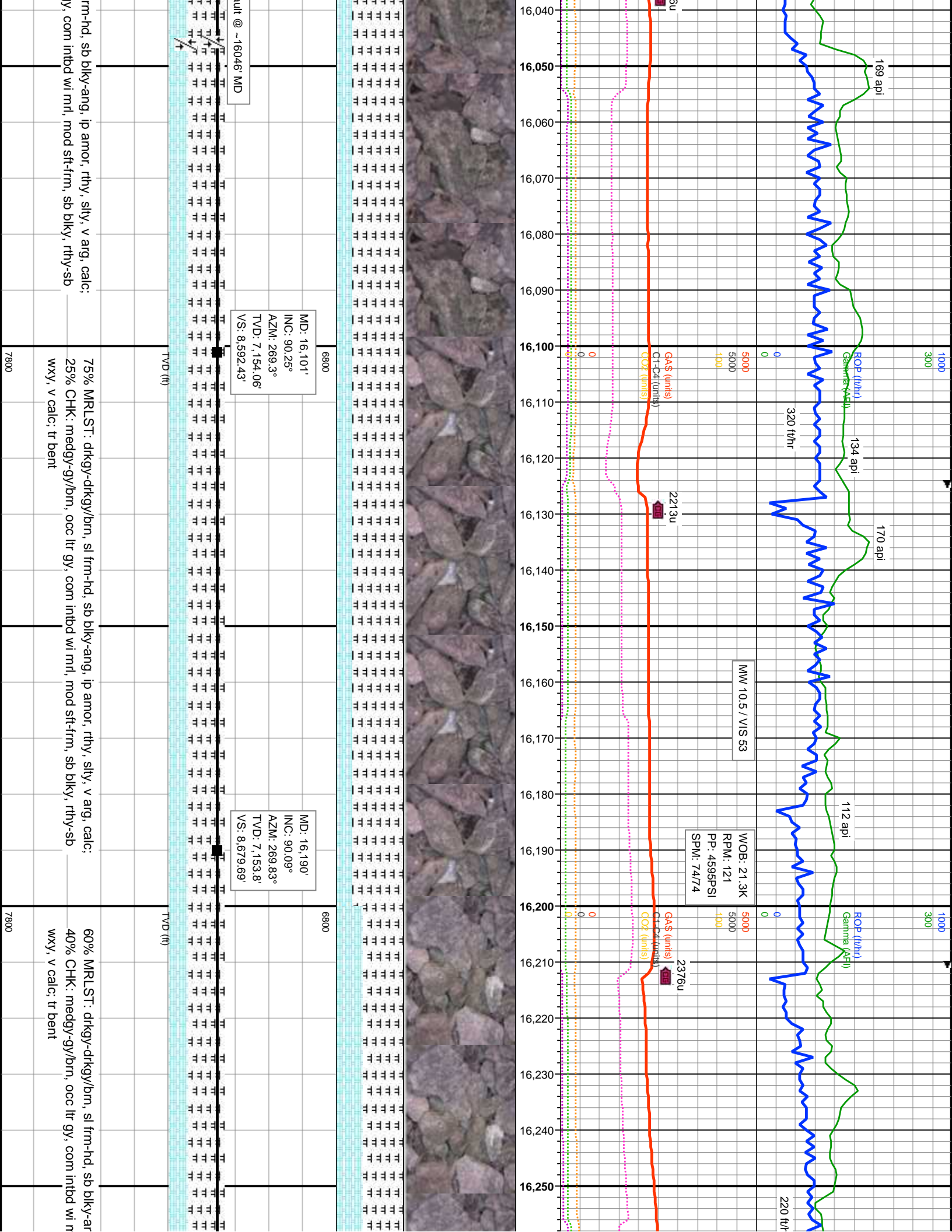
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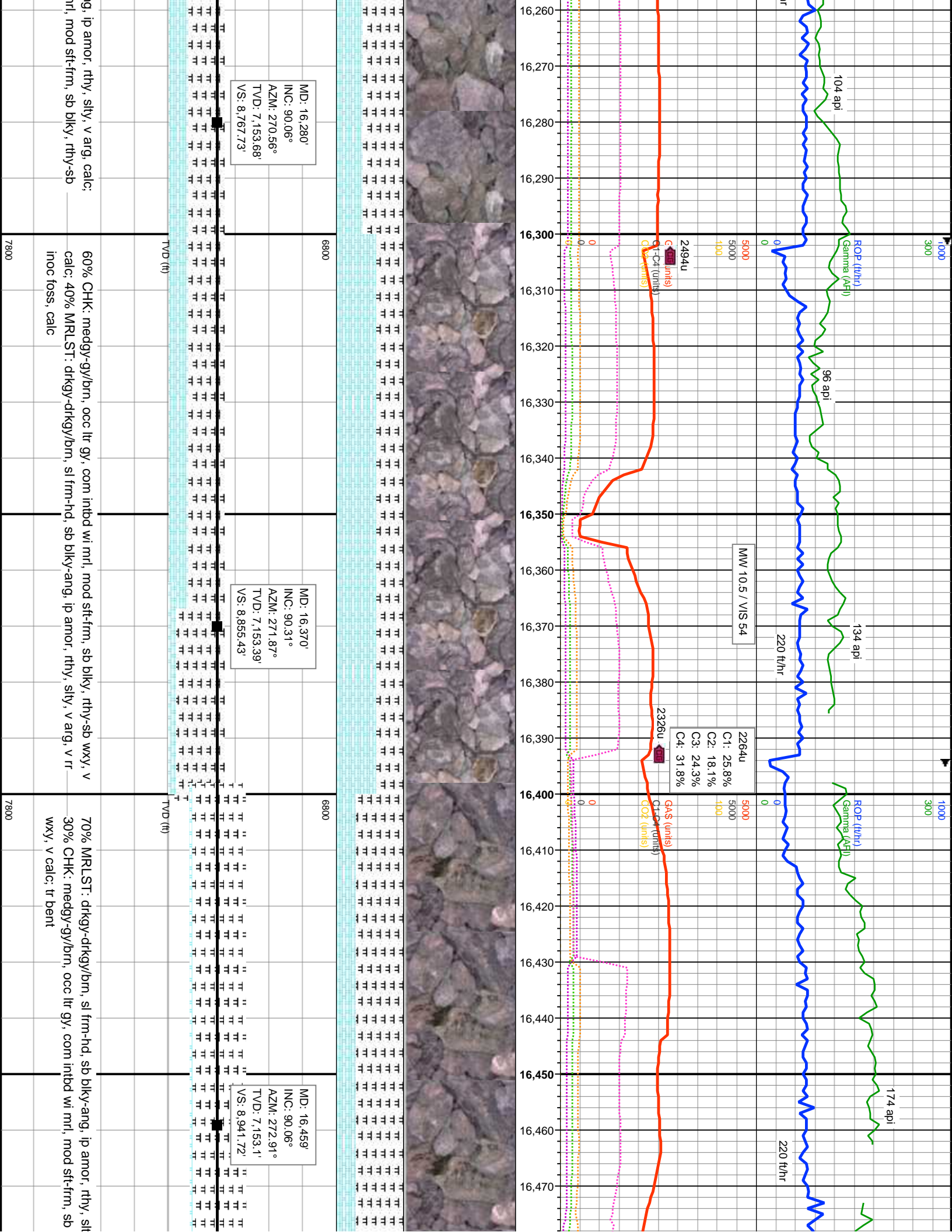
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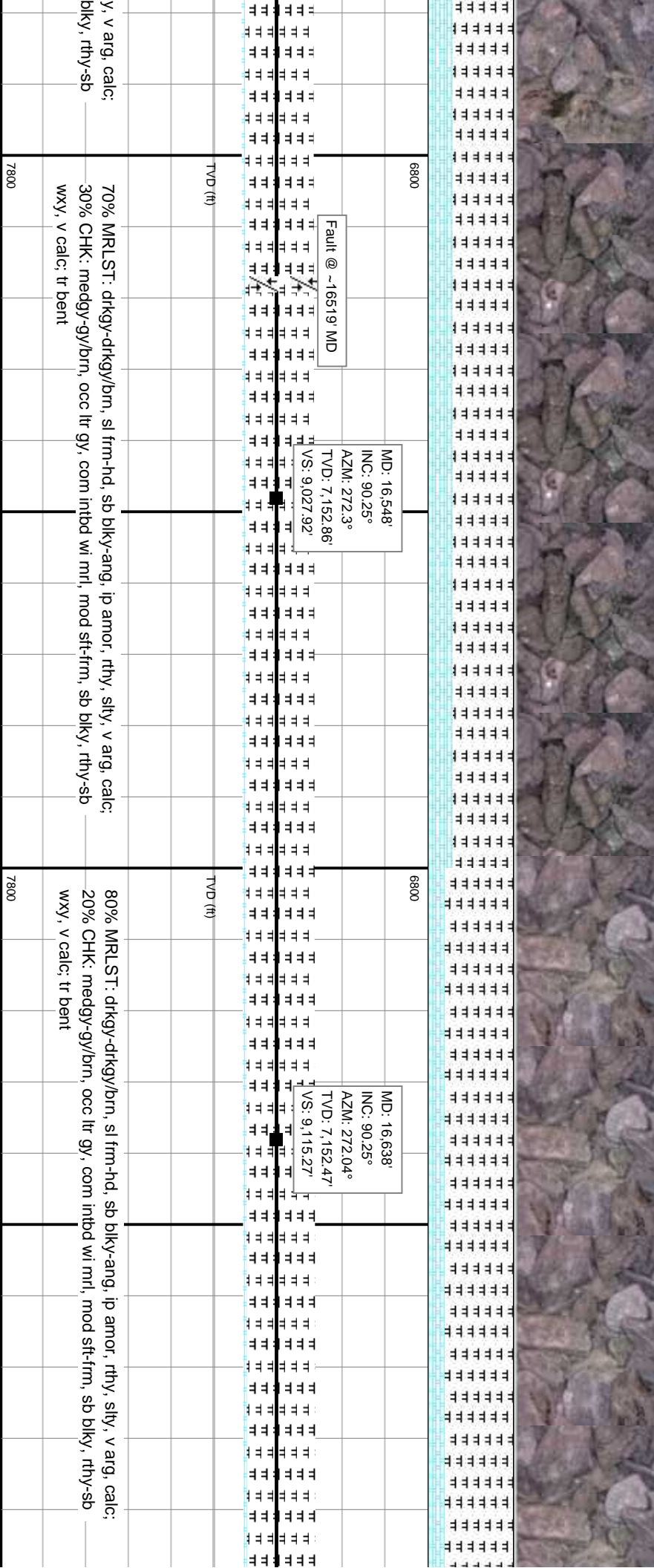
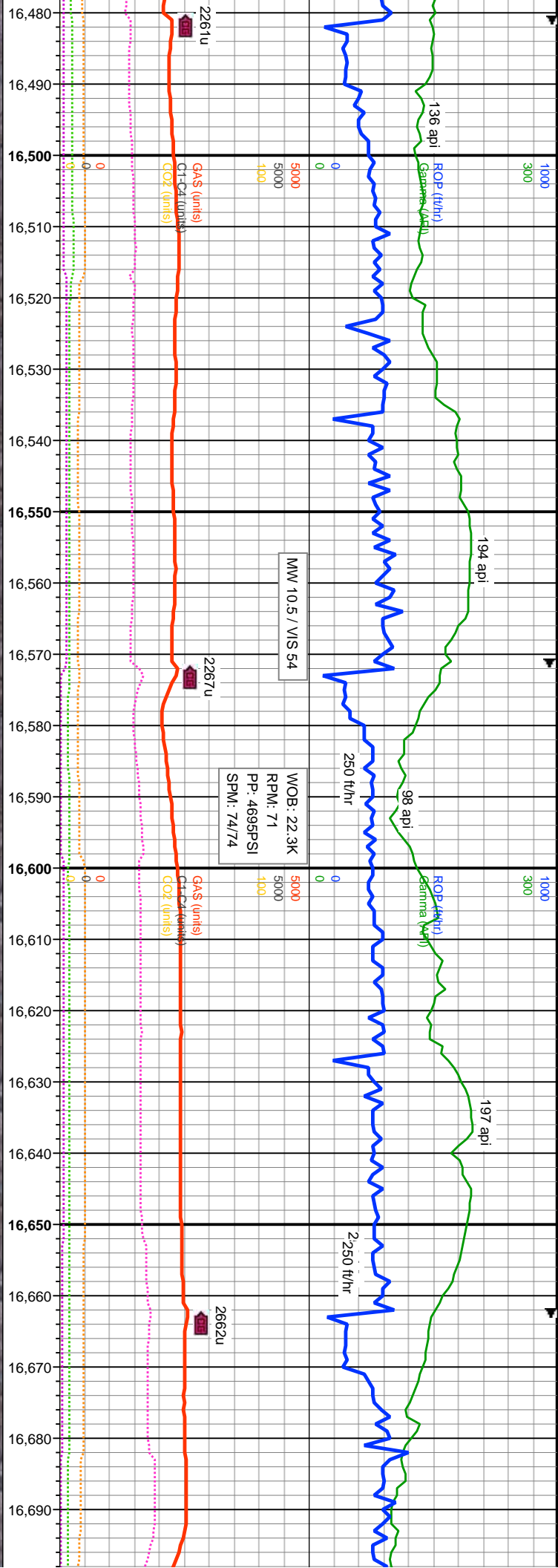
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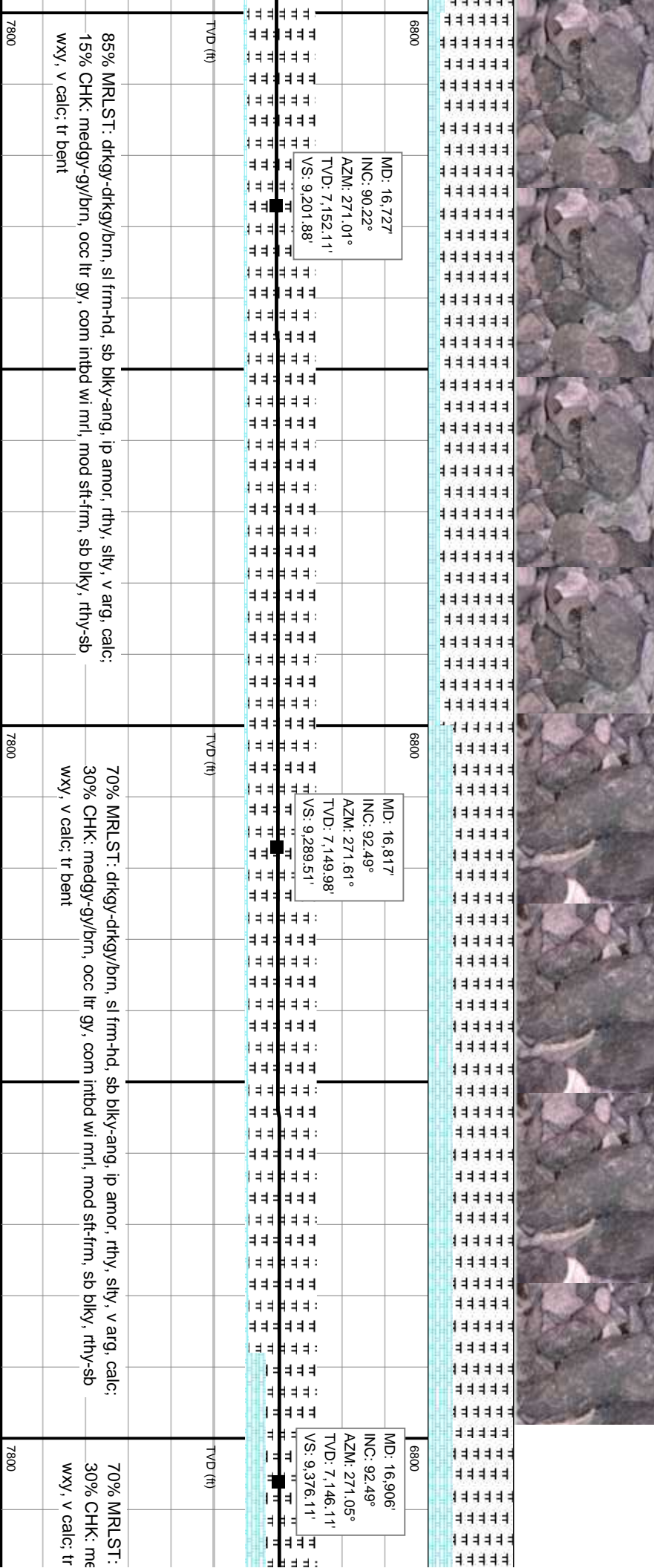
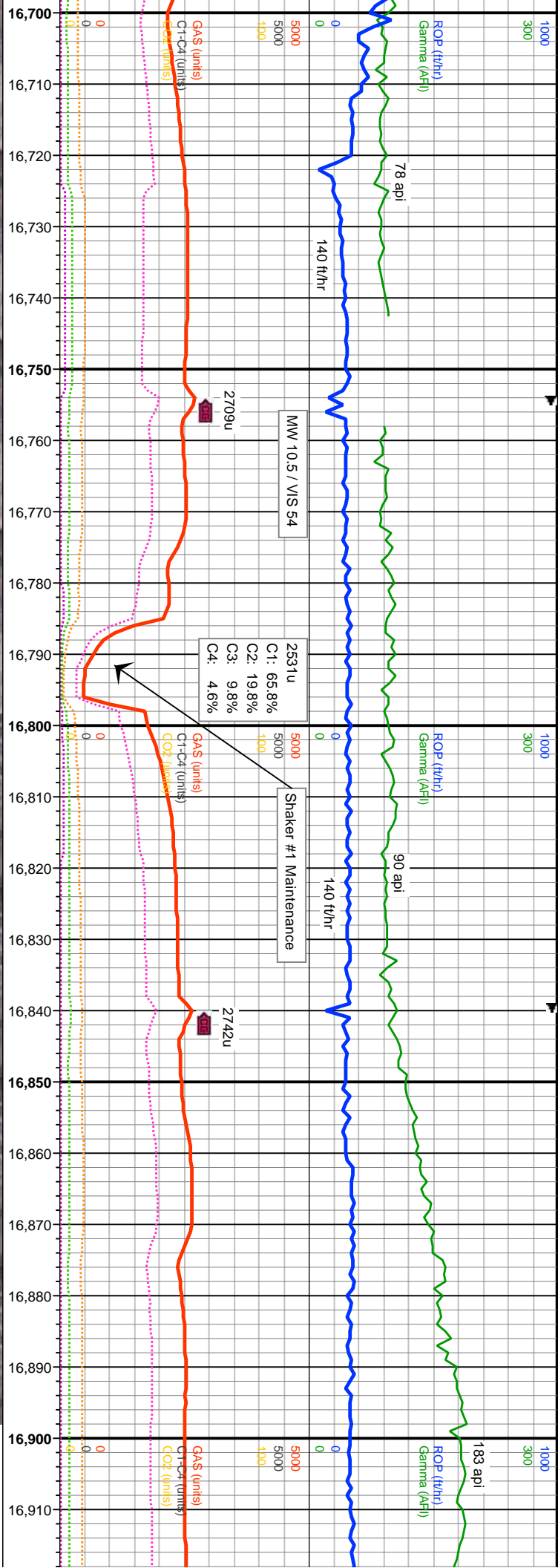


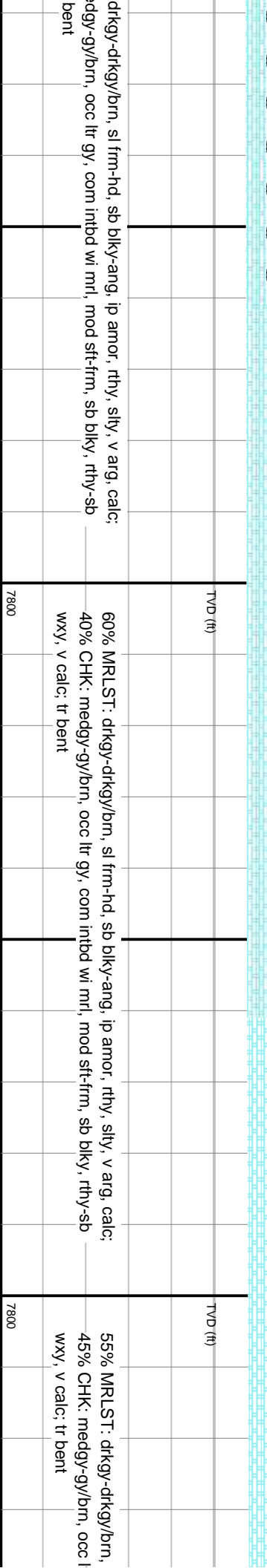
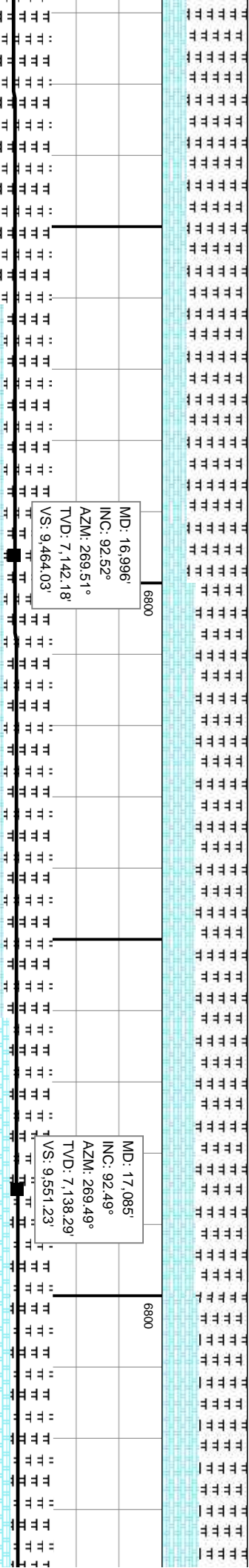
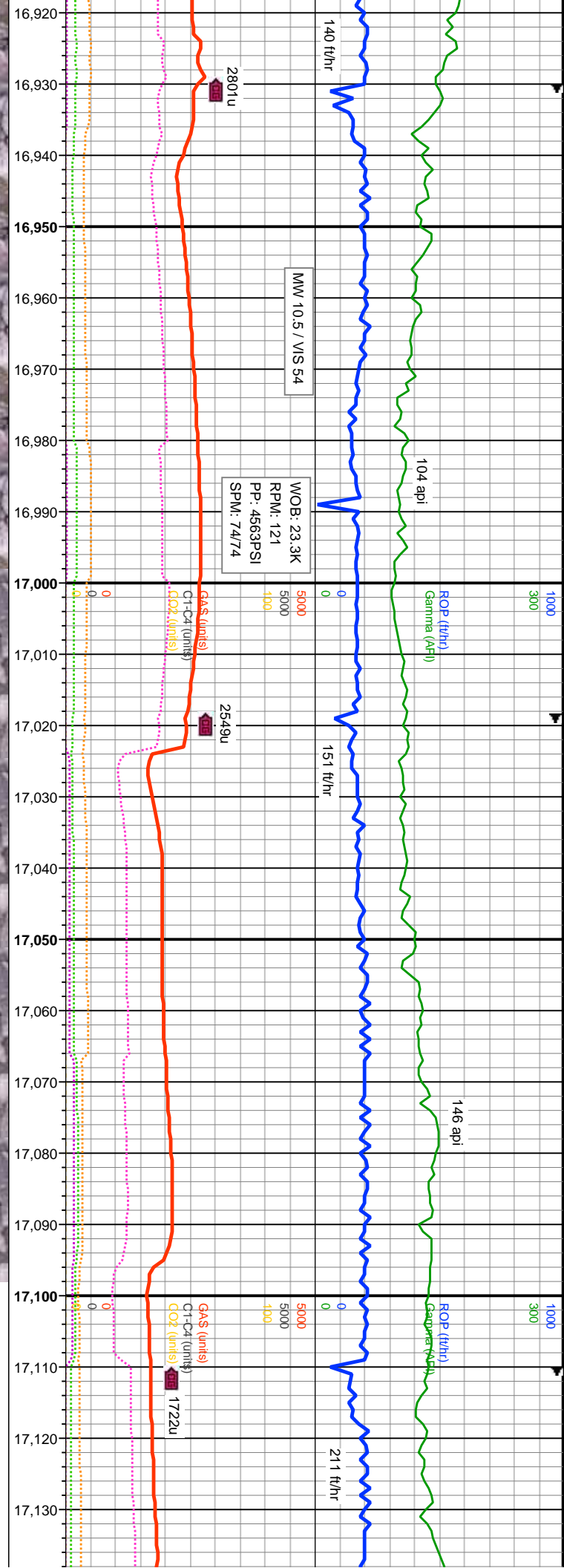


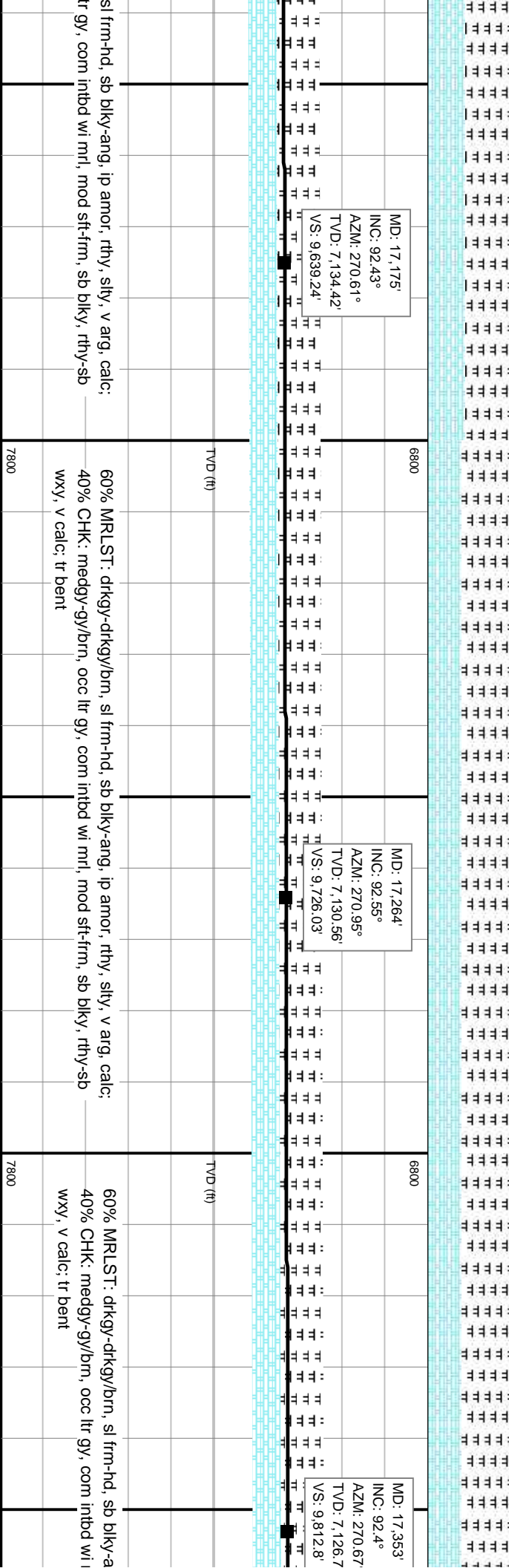
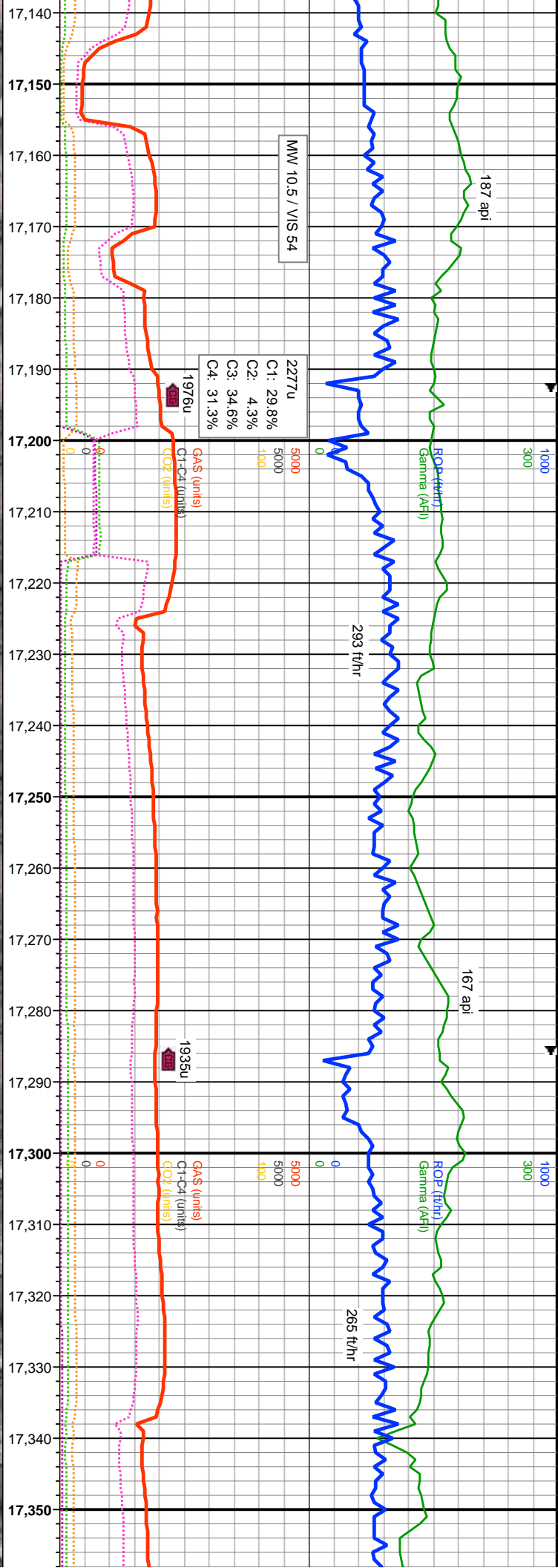


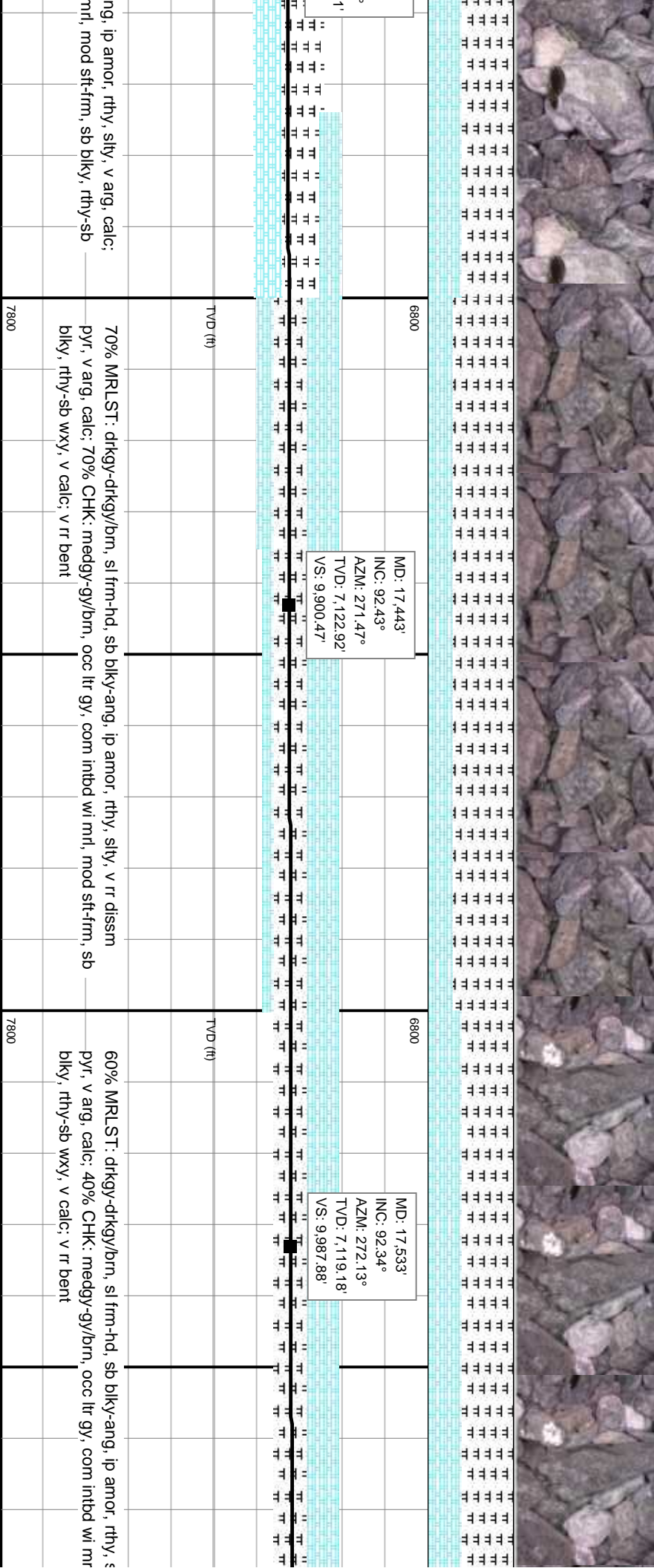
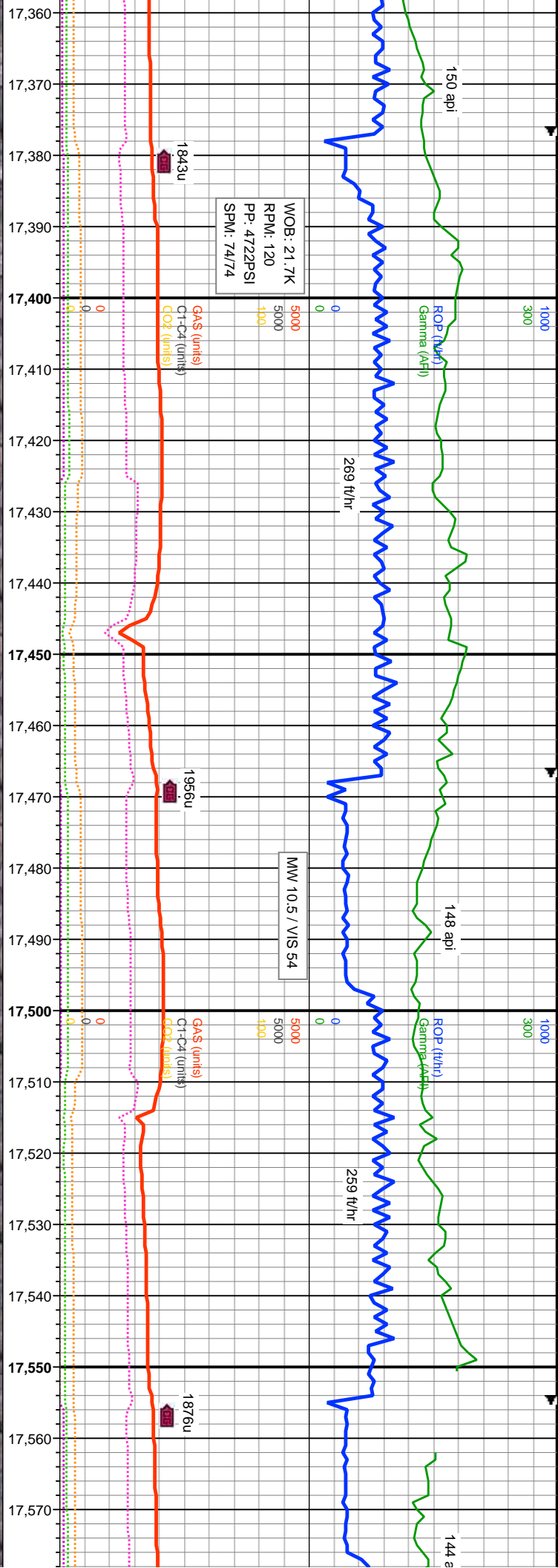












ing, ip amor, rthy, stly, v arg, calc;  
 mri, mod stf-frm, sb blkly, rthy-sb

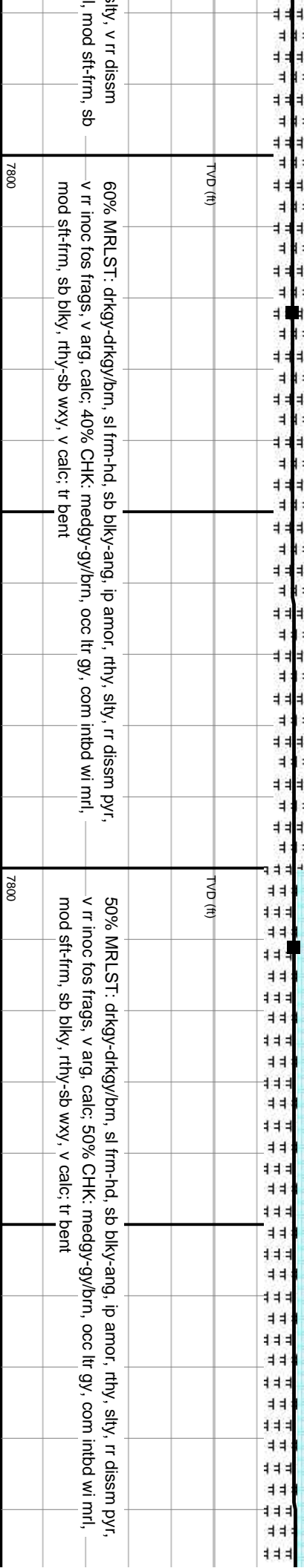
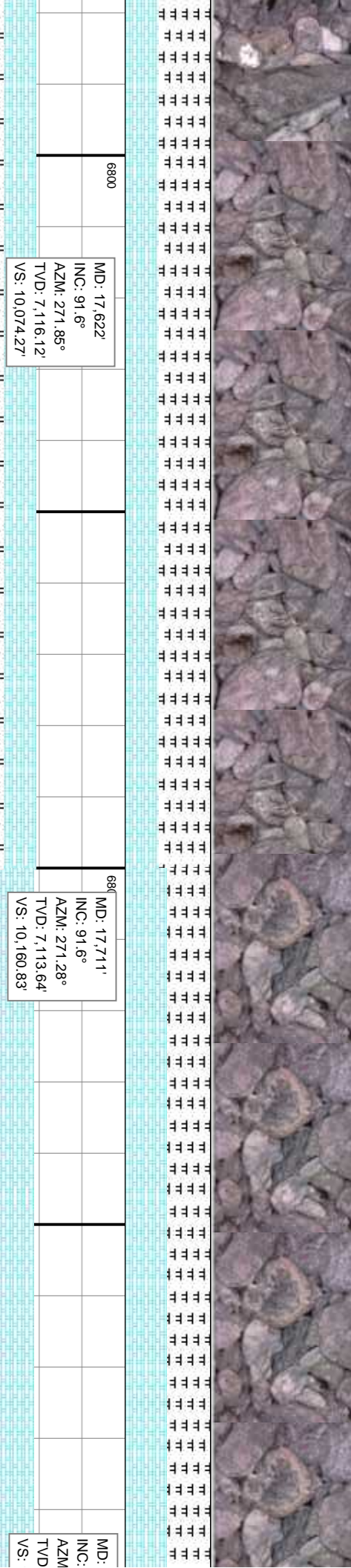
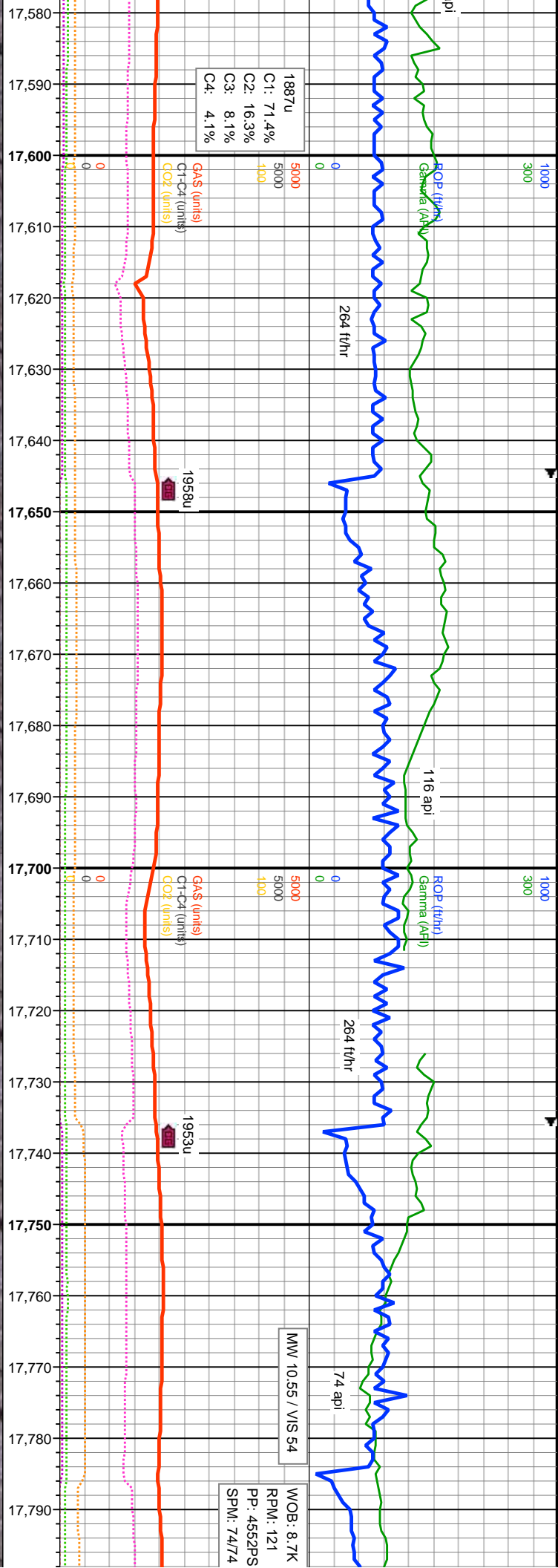
70% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkly-ang, ip amor, rthy, stly, v rr dissm  
 pyr, v arg, calc; 70% CHK: medgy-gy/brn, occ tr gy, com intbd wi mri, mod stf-frm, sb  
 blkly, rthy-sb wxy, v calc; v rr bent

60% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkly-ang, ip amor, rthy, s  
 pyr, v arg, calc; 40% CHK: medgy-gy/brn, occ tr gy, com intbd wi mri  
 blkly, rthy-sb wxy, v calc; v rr bent

TVD (ft)

TVD (ft)





MD: 17,622'  
 INC: 91.6°  
 AZM: 271.85°  
 TVD: 7,116.12'  
 VS: 10,074.27'

680'  
 MD: 17,711'  
 INC: 91.6°  
 AZM: 271.28°  
 TVD: 7,113.64'  
 VS: 10,160.83'

MD:  
 INC:  
 AZM:  
 TVD  
 VS:

60% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkv-ang, ip amor, rthy, stly, rr dissm pyr,  
 v rr inoc fos frags, v arg, calc: 40% CHK: medgy-gy/brn, occ tr gy, com intbd wi mrl,  
 mod sft-frm, sb blkv, rthy-sb wxy, v calc: tr bent

50% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkv-ang, ip amor, rthy, stly, rr dissm pyr,  
 v rr inoc fos frags, v arg, calc: 50% CHK: medgy-gy/brn, occ tr gy, com intbd wi mrl,  
 mod sft-frm, sb blkv, rthy-sb wxy, v calc: tr bent

TVD (ft)

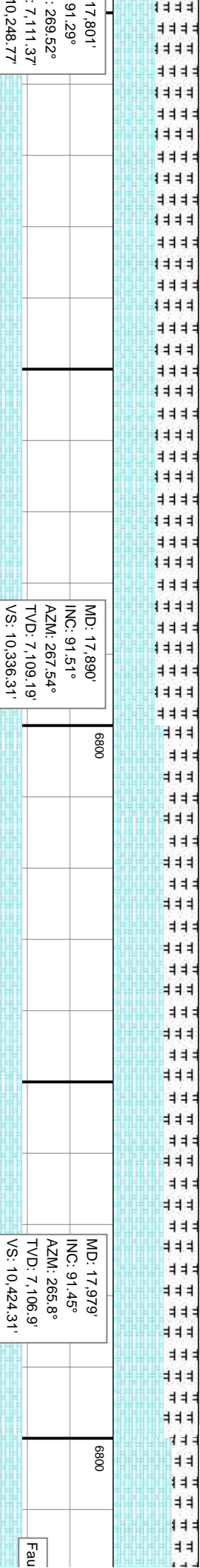
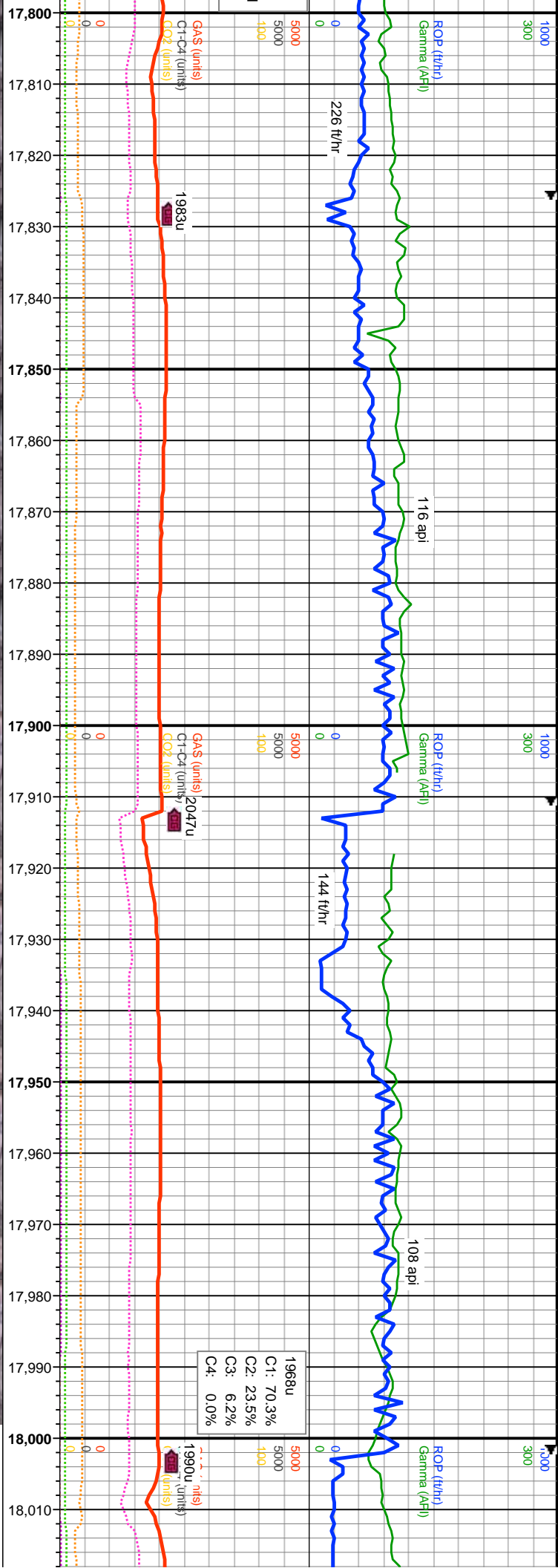
TVD (ft)

TVD (ft)

7800

7800

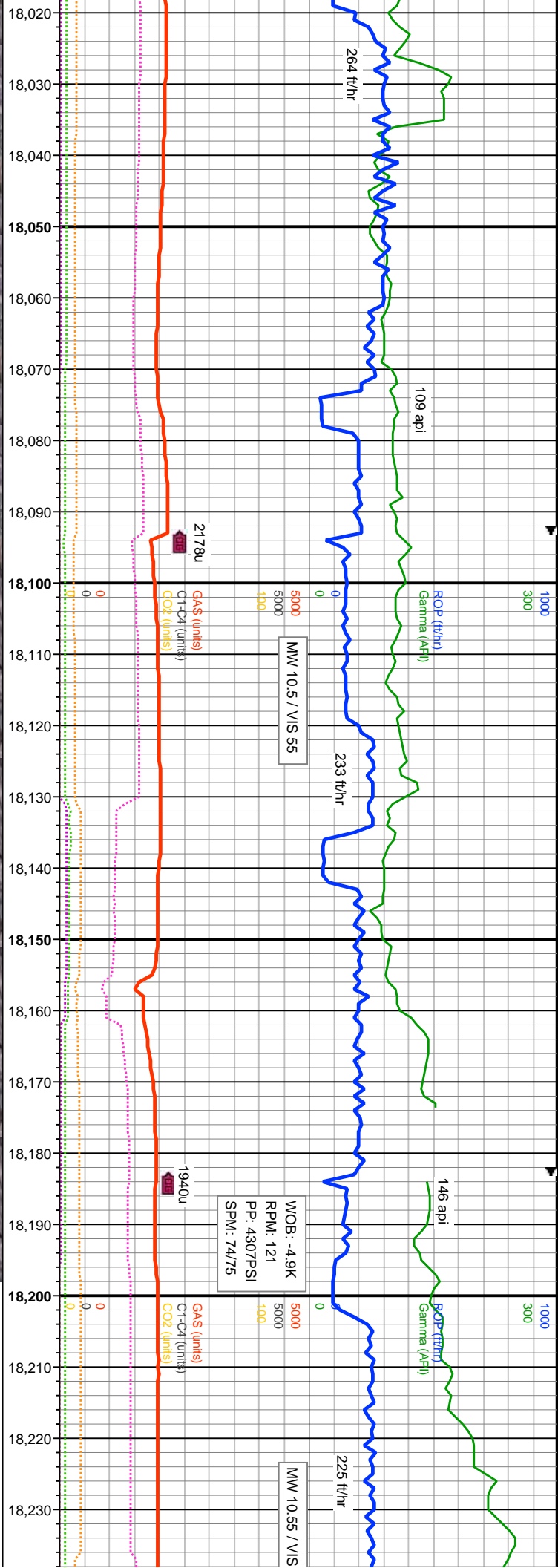
7800



50% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkv-ang, ip amor, rthy, slty, rr dissm pyr, v rr inoc fos frags, v arg, calc; 50% CHK: medgy-gy/brn, occ ltr gy, com intbd wi mri, mod sft-frm, sb blkv, rthy-sb wxy, v calc; tr bent

60% CHK: medgy-gy/brn, occ ltr gy, com intbd wi mri, mod sft-frm, sb blkv, rthy-sb wxy, v calc; 40% MRLST: drkgy-drkgy/brn, sl frm-hd, sb blkv-ang, ip amor, rthy, slty, v rr dissm pyr, v rr inoc fos frags, v arg, calc; tr bent

70% CHK: m wxy, v calc; ; rr dissm pyr,



Depth (ft)	MD	INC	AZM	TVD	VS	Remarks
~18024	MD: 18,069'	INC: 91.51°	AZM: 265.06°	TVD: 7,104.57'	VS: 10.513,57'	medgy-gy/brn, occ ltr gy, com intbd w/ mrl, mod sft-frm, sb blkly, rthy-sb frags, v rr inoc fos frags, v arg, calc; tr bent
6800	MD: 18,158'	INC: 91.48°	AZM: 268.18°	TVD: 7,102.25'	VS: 10.601,57'	60% MRLST: dtkgy-dtkgy/brn, sl frm-hd, sb blkly-ang, ip amor, rthy, slty, v rr inoc fos frags, v arg, calc; 40% CHK: medgy-gy/brn, occ ltr gy, com intbd w/ mrl, mod sft-frm, sb blkly, rthy-sb wxy, v calc; r bent
7800	MD: 18,158'	INC: 91.48°	AZM: 268.18°	TVD: 7,102.25'	VS: 10.601,57'	65% MRLST: dtkgy-dtkgy/brn, s frags, v rr pyr nod, v arg, calc; 3 mod sft-frm, sb blkly, rthy-sb wxy

