



**Scale: 5" / 100'**

## **Measured Depth Log**

**Well Name** Schneider HD 11-102HNX

**Location** Section 7, T4N, R66W

**State** COLORADO

**Country** USA

**API Number** 051234641700

**Geographic Region** DJ BASIN

**County** WELD

**Rig Number** PRECISION 466

**AFE #** 19DC0221

**Field** WATTENBERG

**Ground Elevation** 4735.0'

**K.B. Elevation** 4755.0'

**Logged Interval** 6000' MD To 17678' MD

**Total Depth** 17678' MD

**Formation** NIOBRARA A 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** Zach Souvall, Kennedy Oginga

**Company** Terra Guidance

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

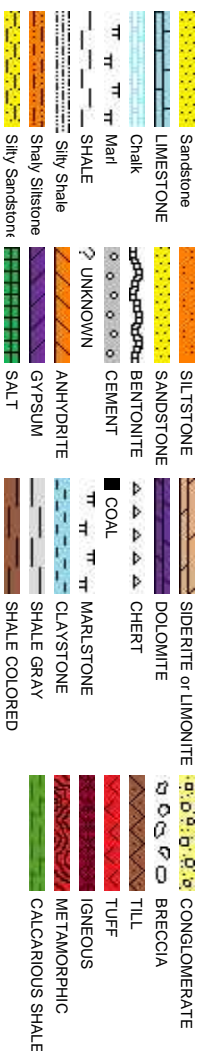


## Other

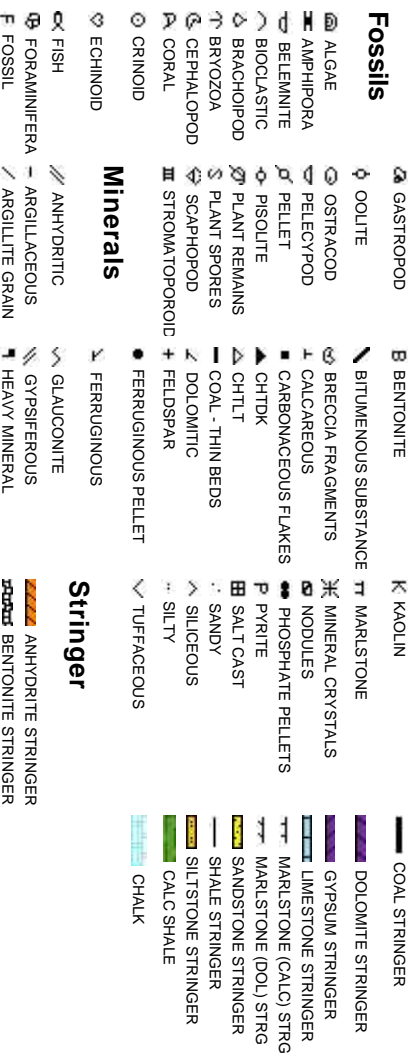
MUDLOG START DATE 10/31/2019

MUDLOG END DATE 11/02/2019

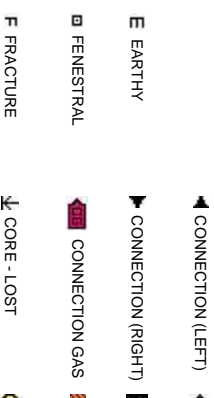
## Rock Types



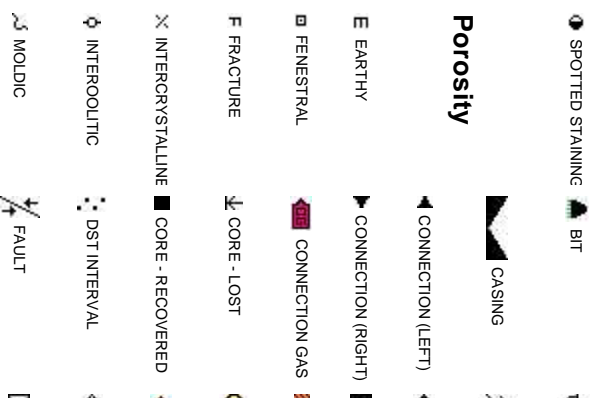
## Accessories



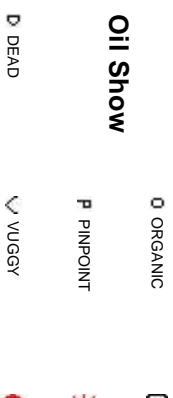
## Porosity



## Engineering



## Oil Show






# Other Symbols

 FORMATION TOP      L LITHOGRAPHIC


## Rounding

GAS SHOW       MICROXLN

 MIN DEPTH       ANGULAR       MUDSTONE

NORMAL FAULT       ROUNDED       PACKSTONE

OIL SHOW       SUBANG       WACKESTONE

OVERTURNED STRATA       SUBRND

## Sorting

REVERSE FAULT

## Textures

SIDEWALL CORE (LEFT)       MODERATE


SIDEWALL CORE (RIGHT)       BOUNDSTONE       POOR

SLIDE       CHALKY       WELL


 SURVEY       CRYPTOXLN

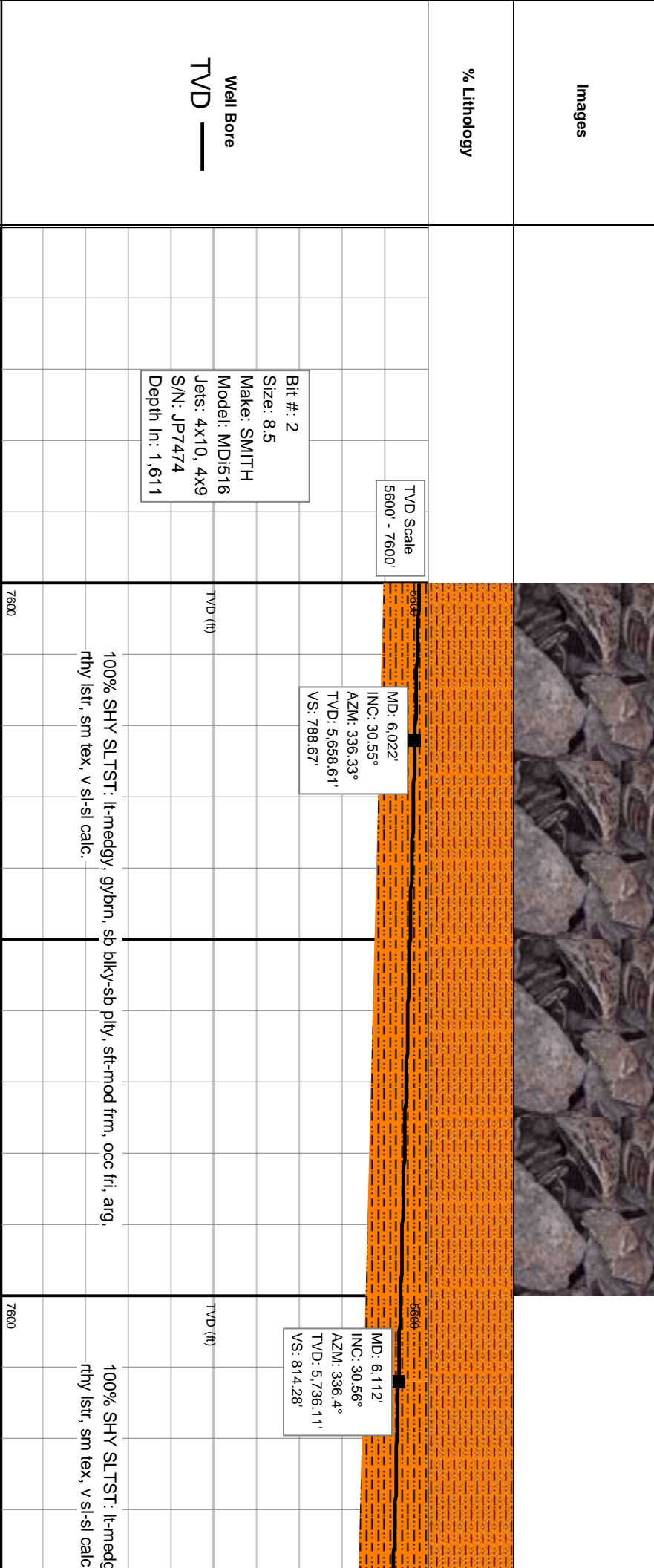
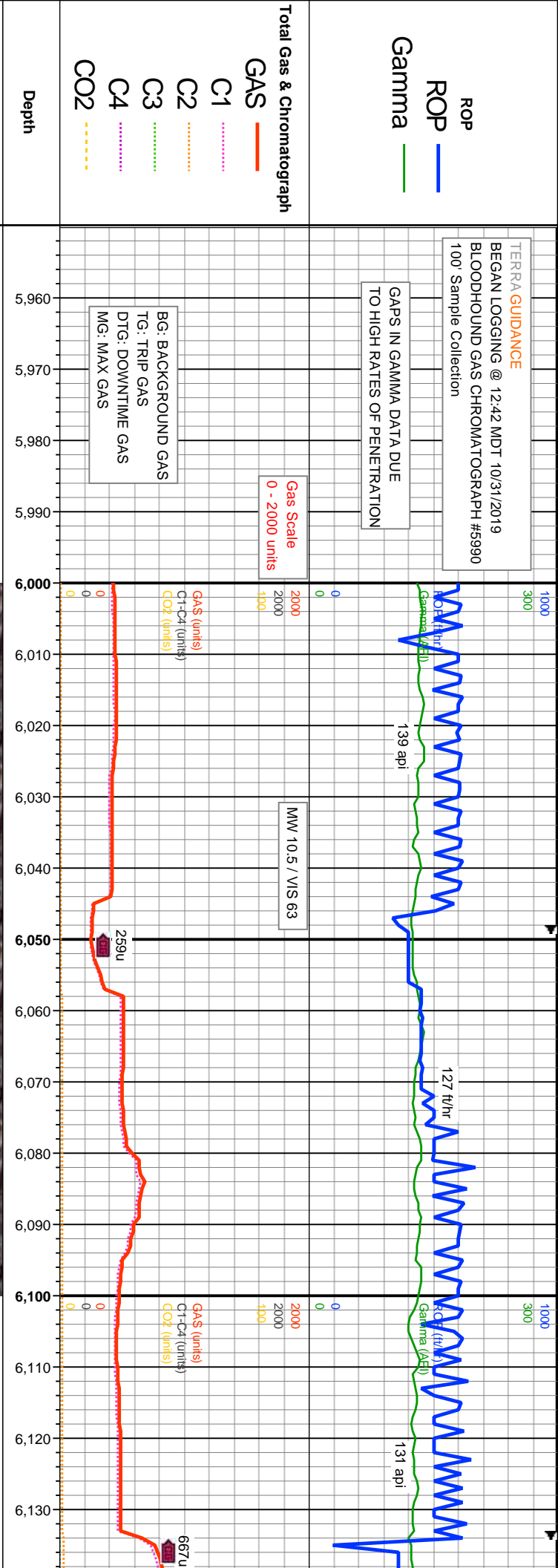
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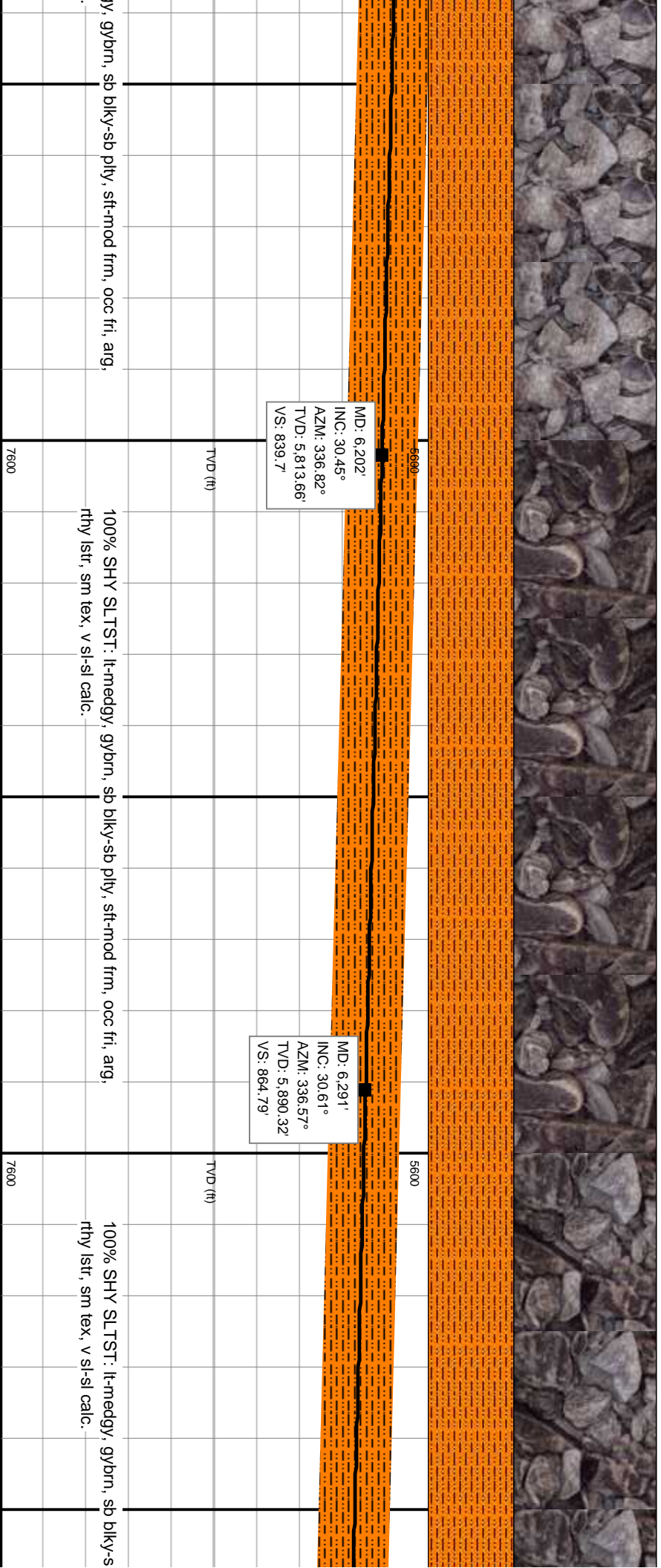
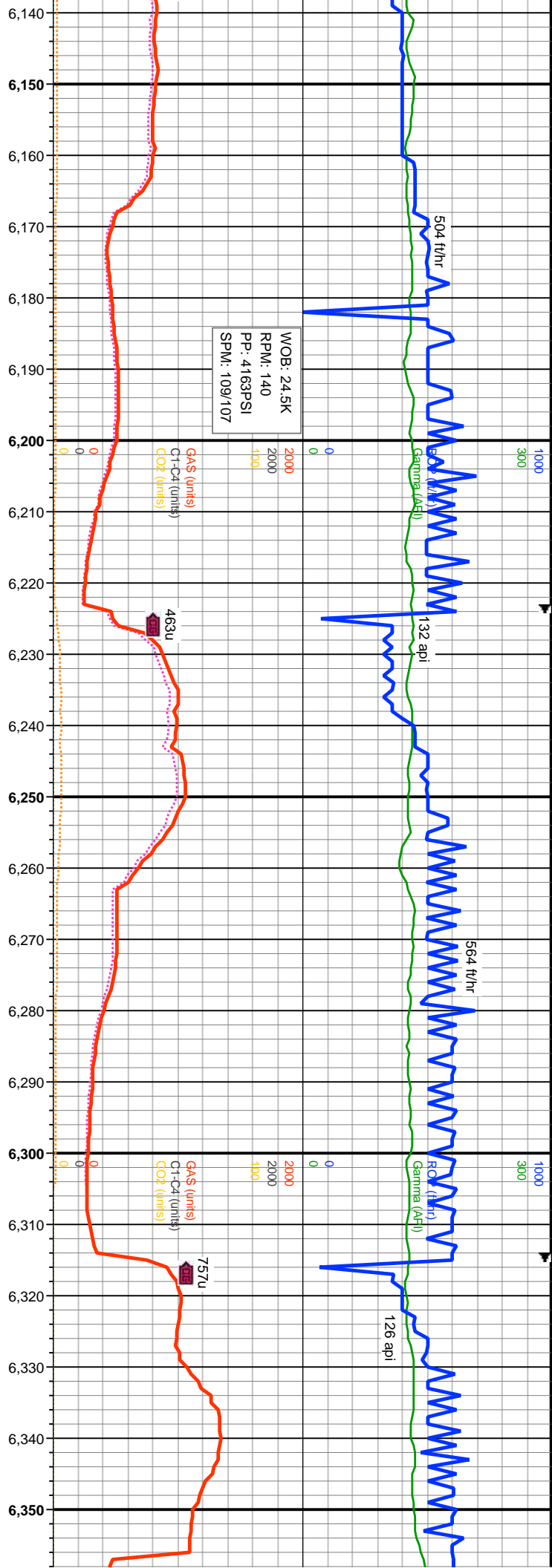
 TRIP GAS       EARTHY

WIRELINE TESTED - LEFT       FINELYXLN

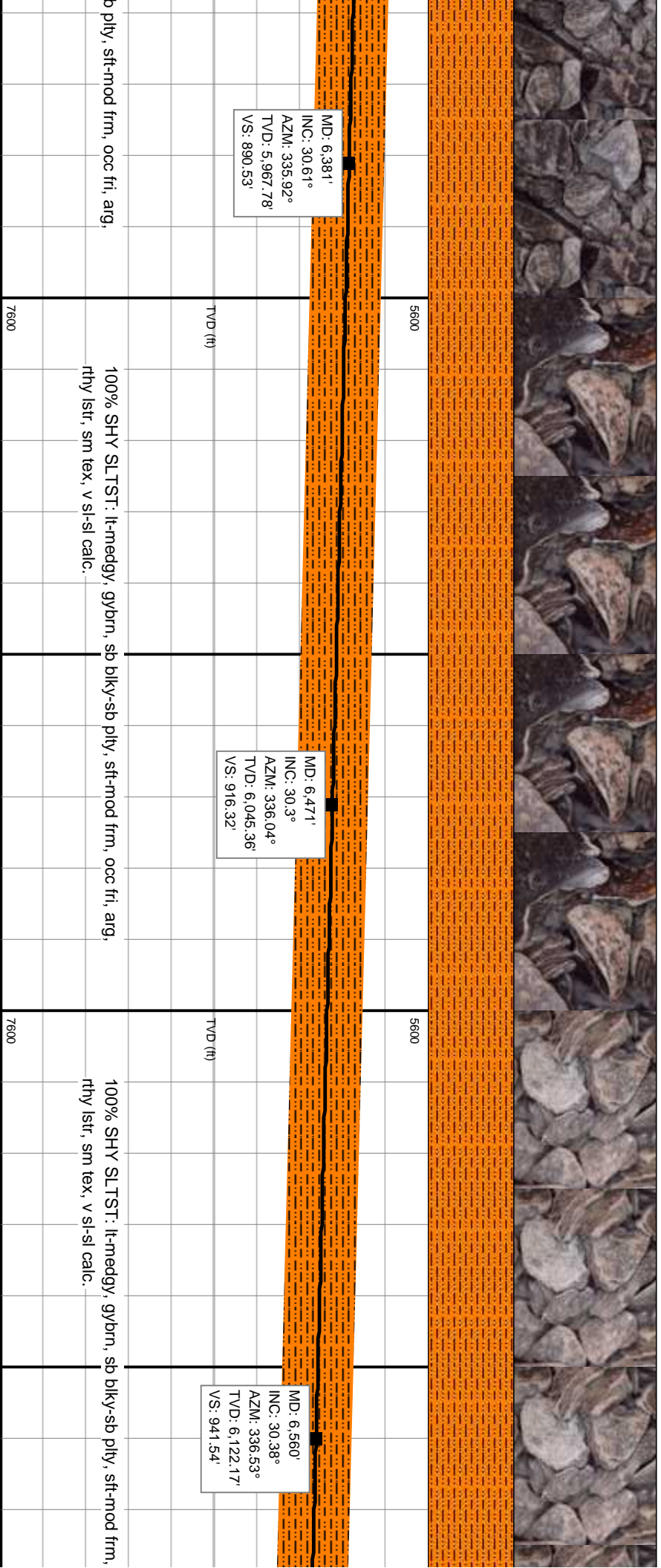
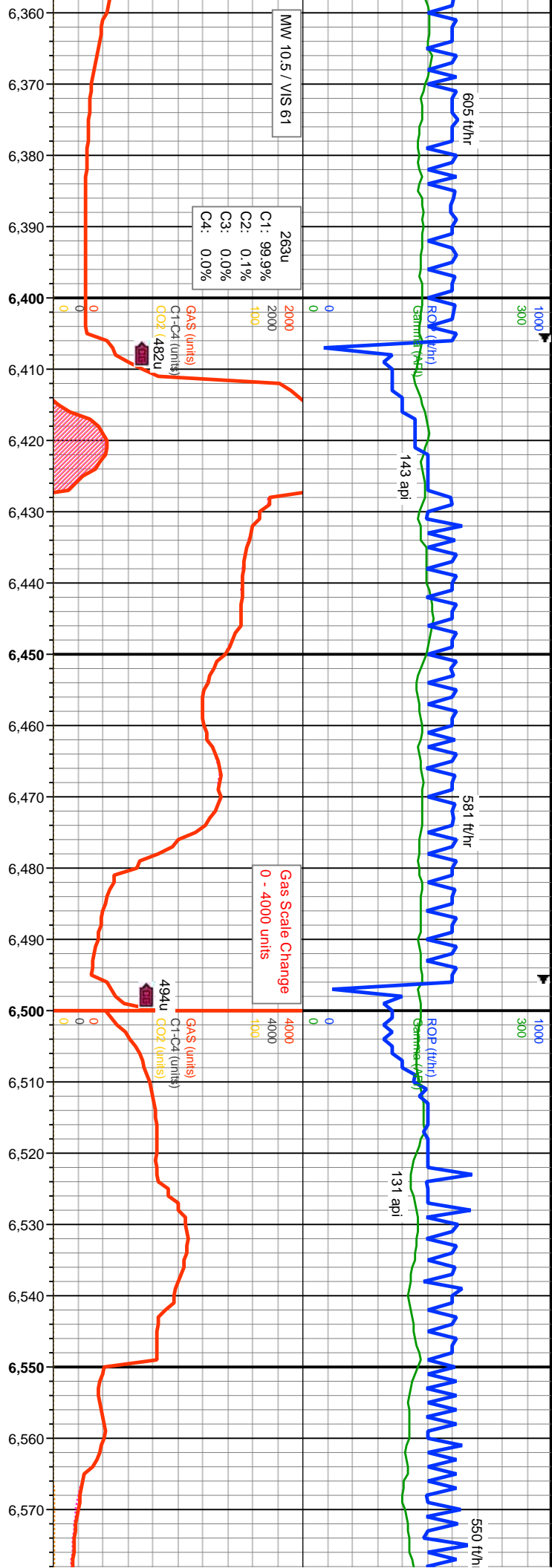
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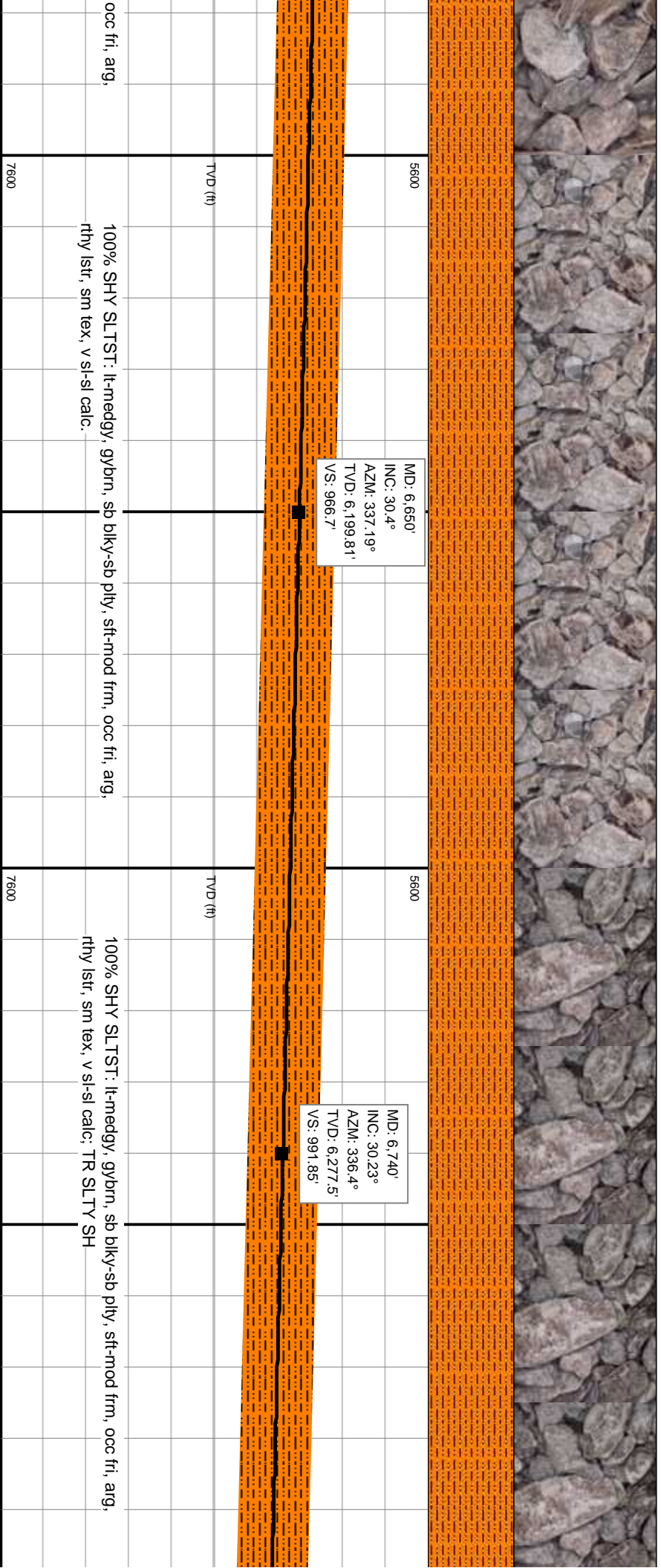
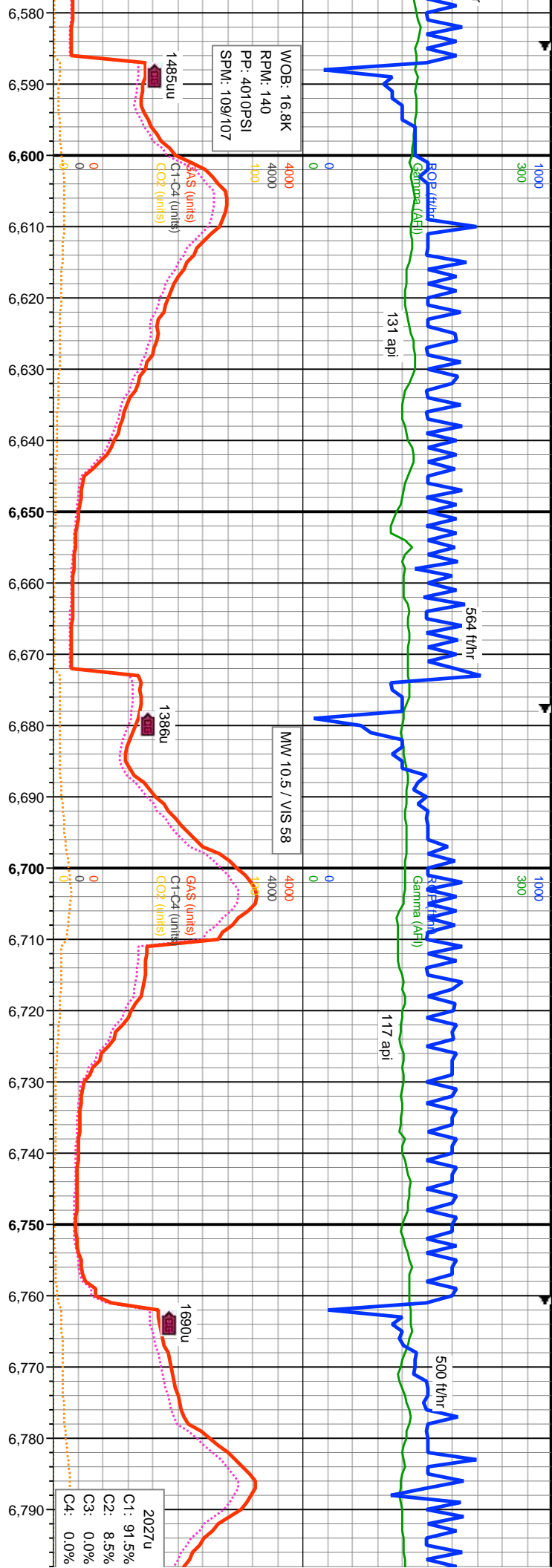
WIRELINE TESTED - RT       GRAINSTONE



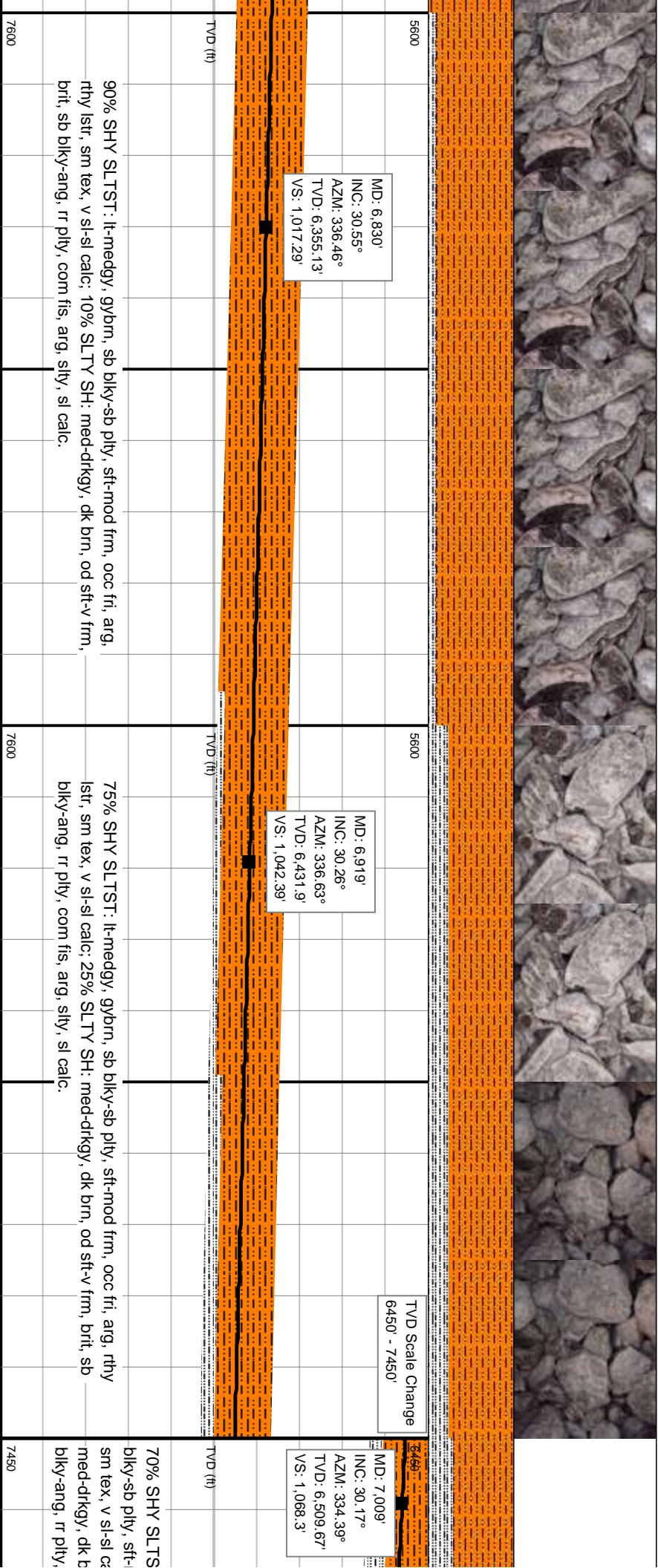
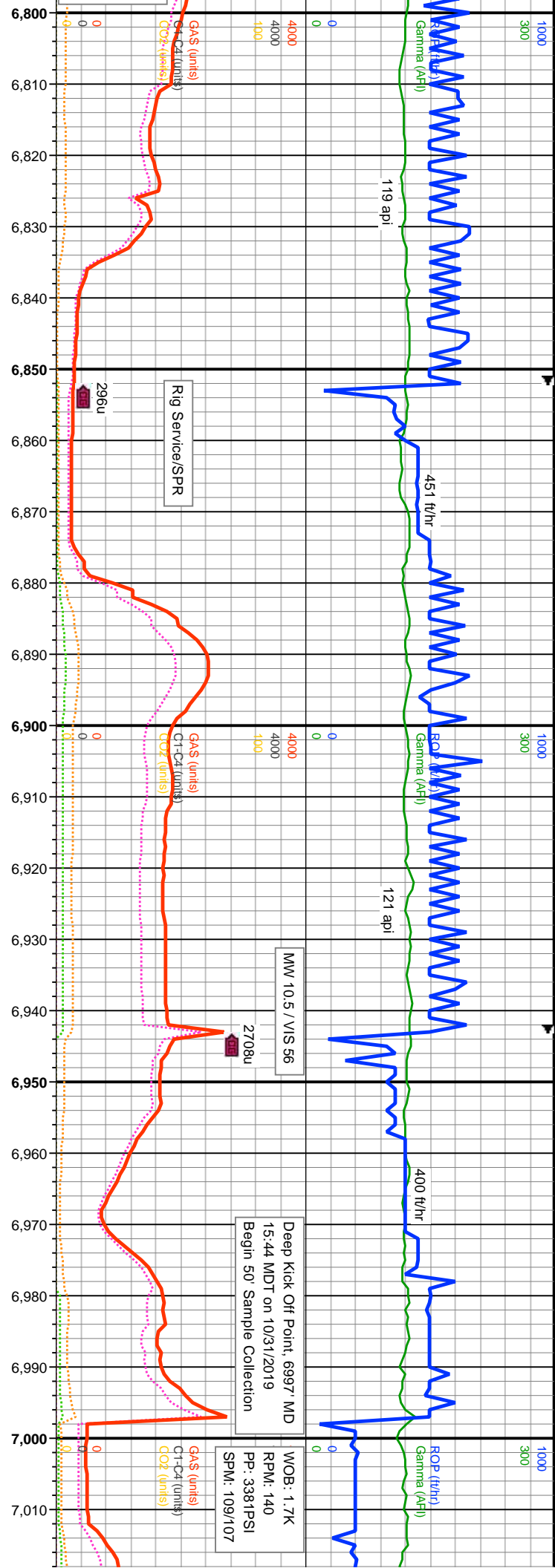




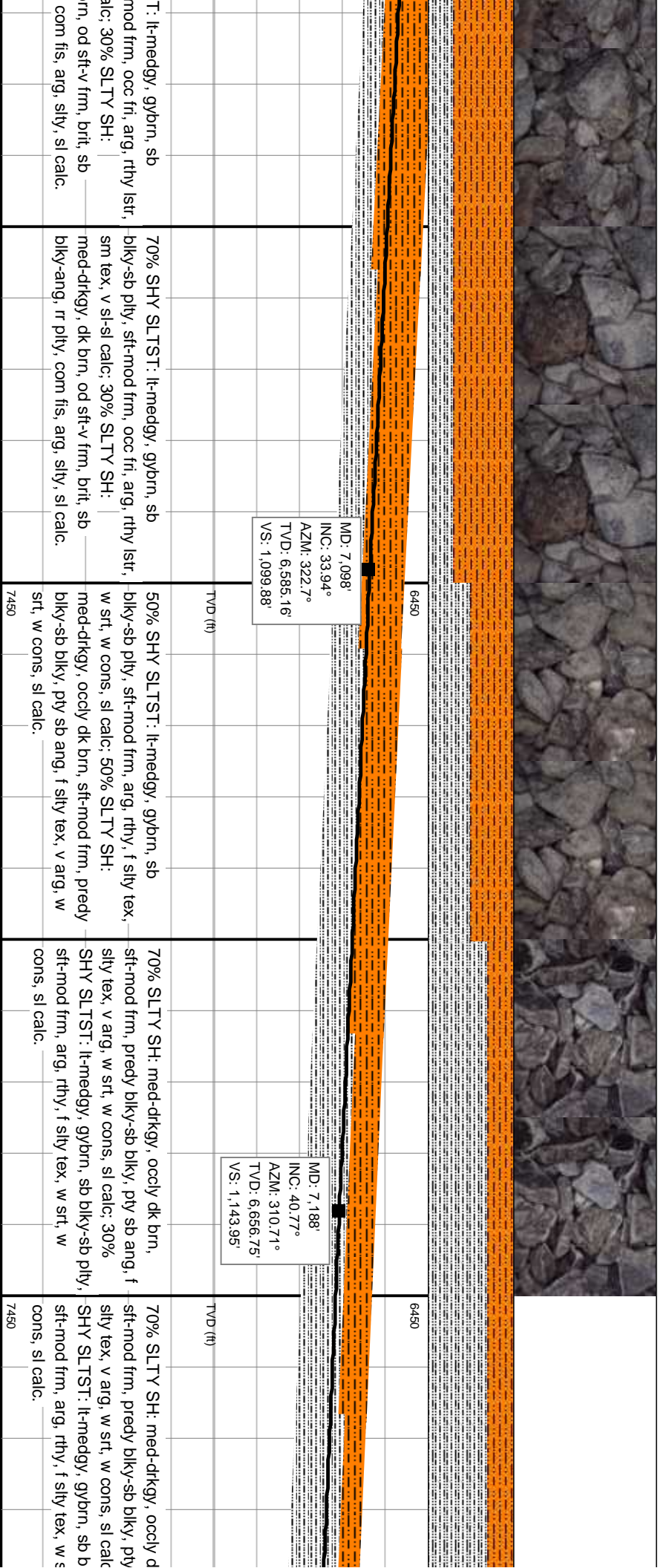
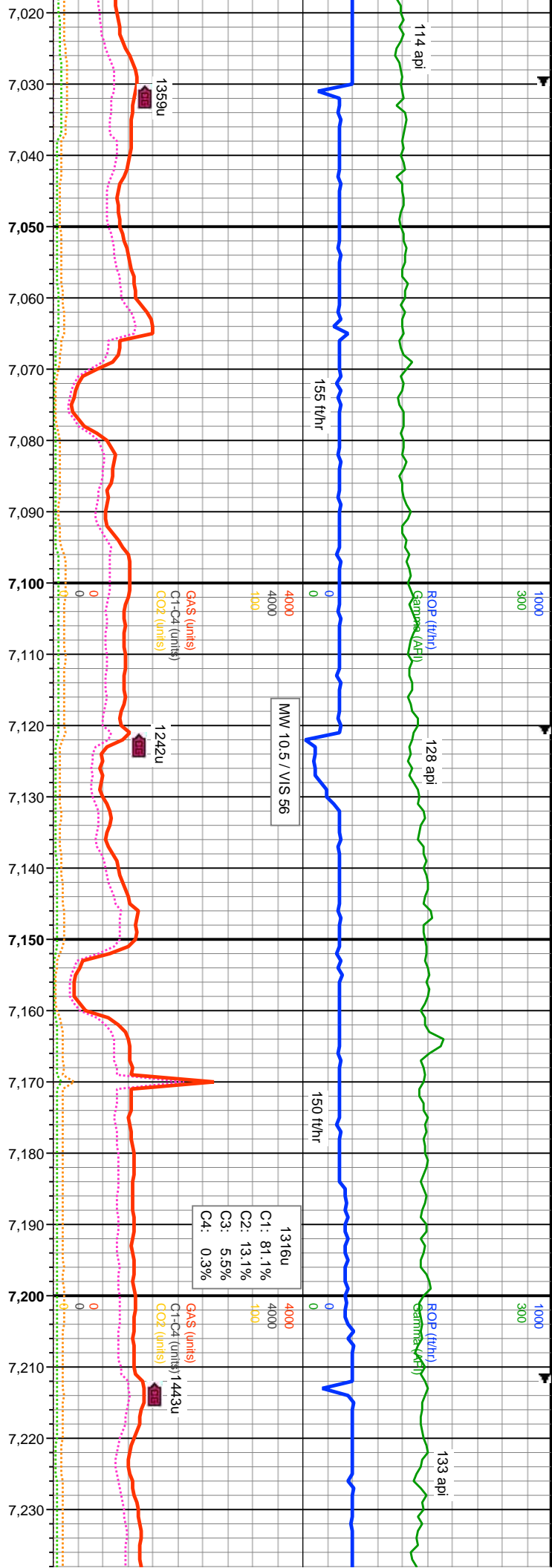


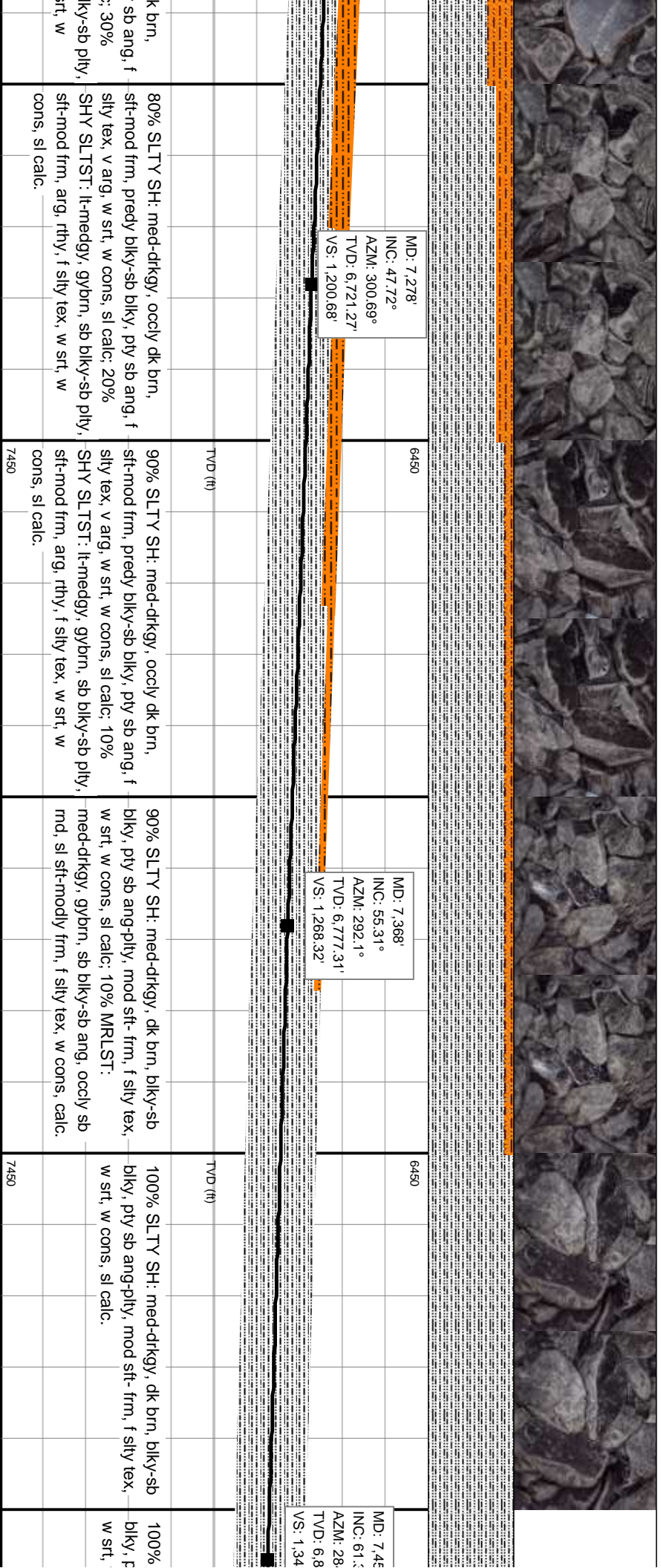
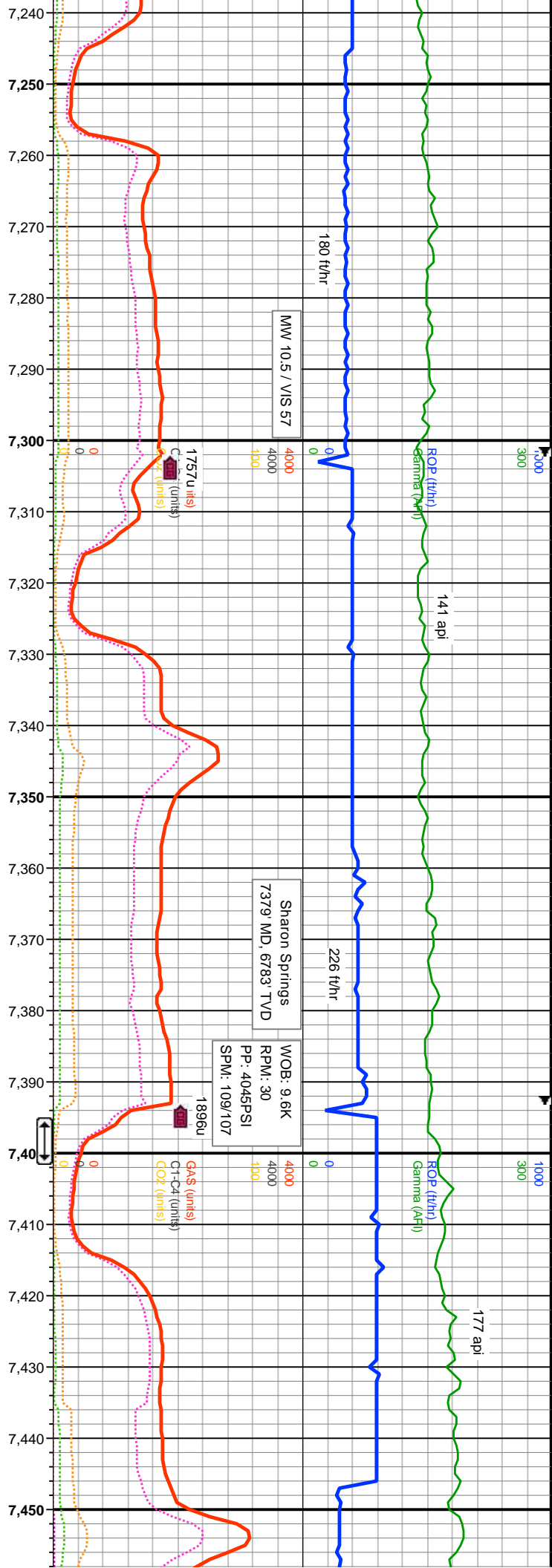










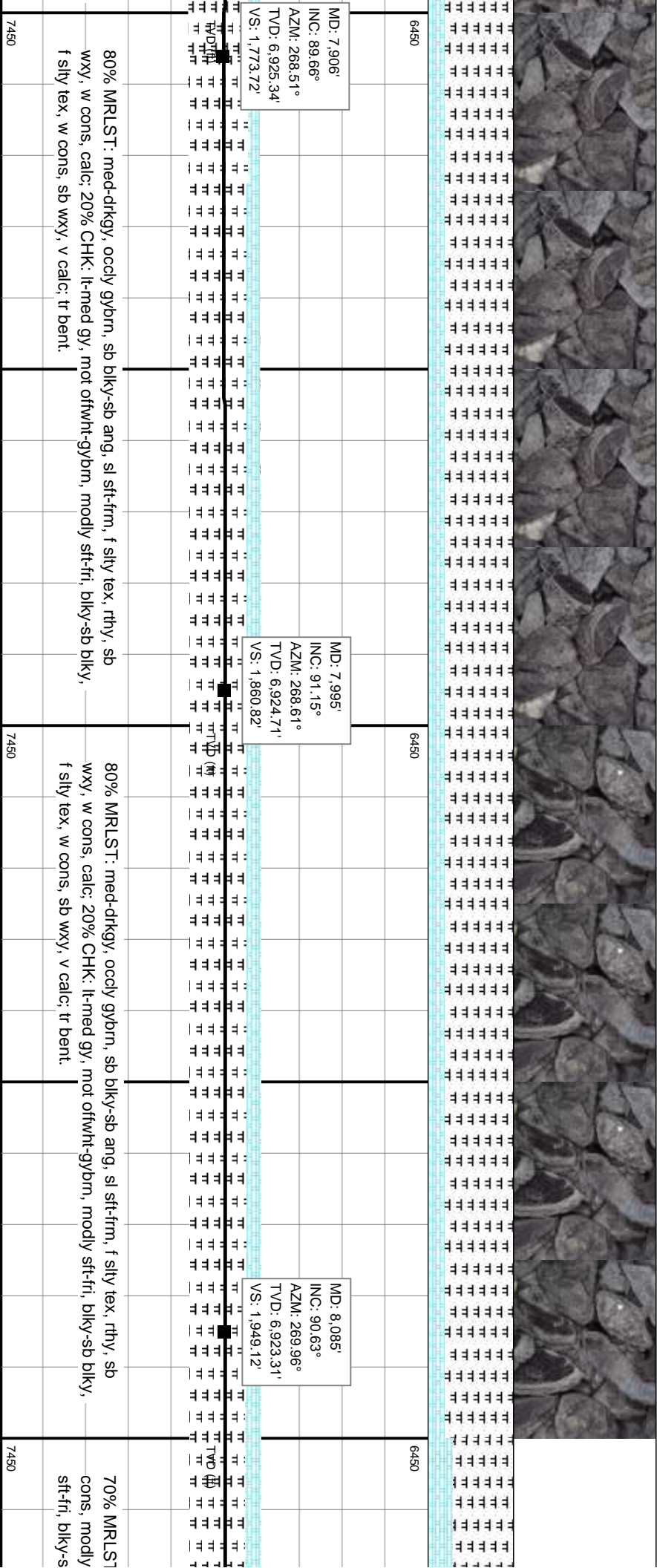
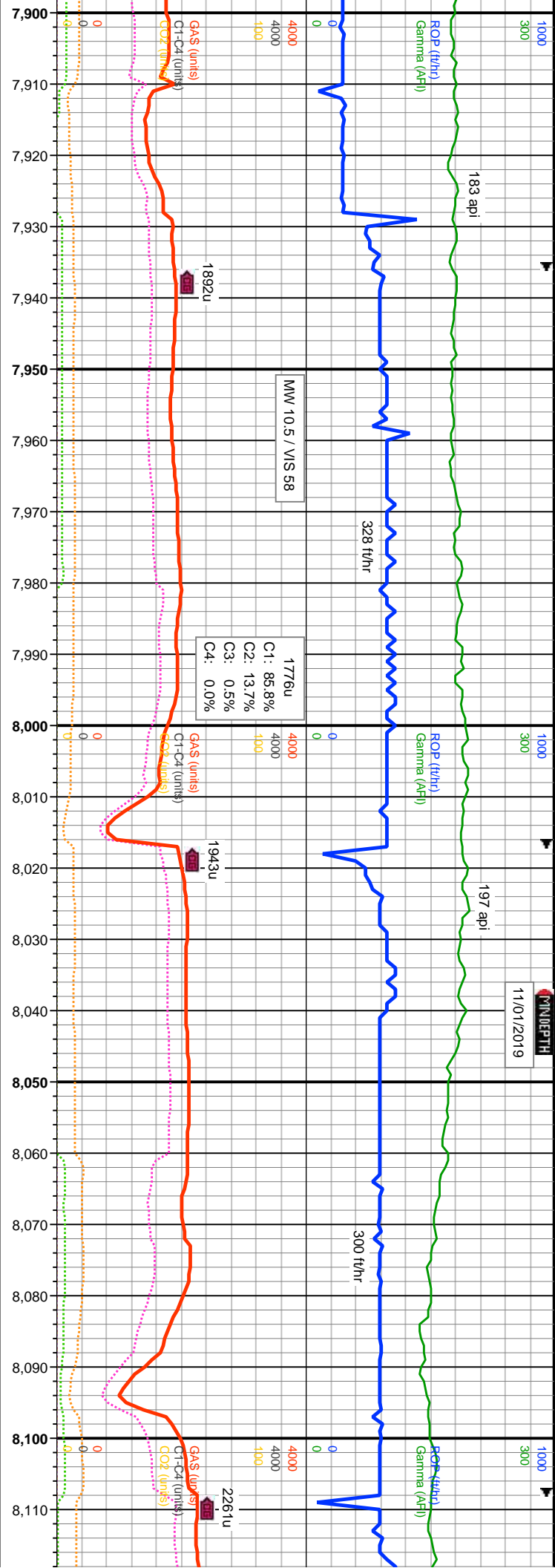




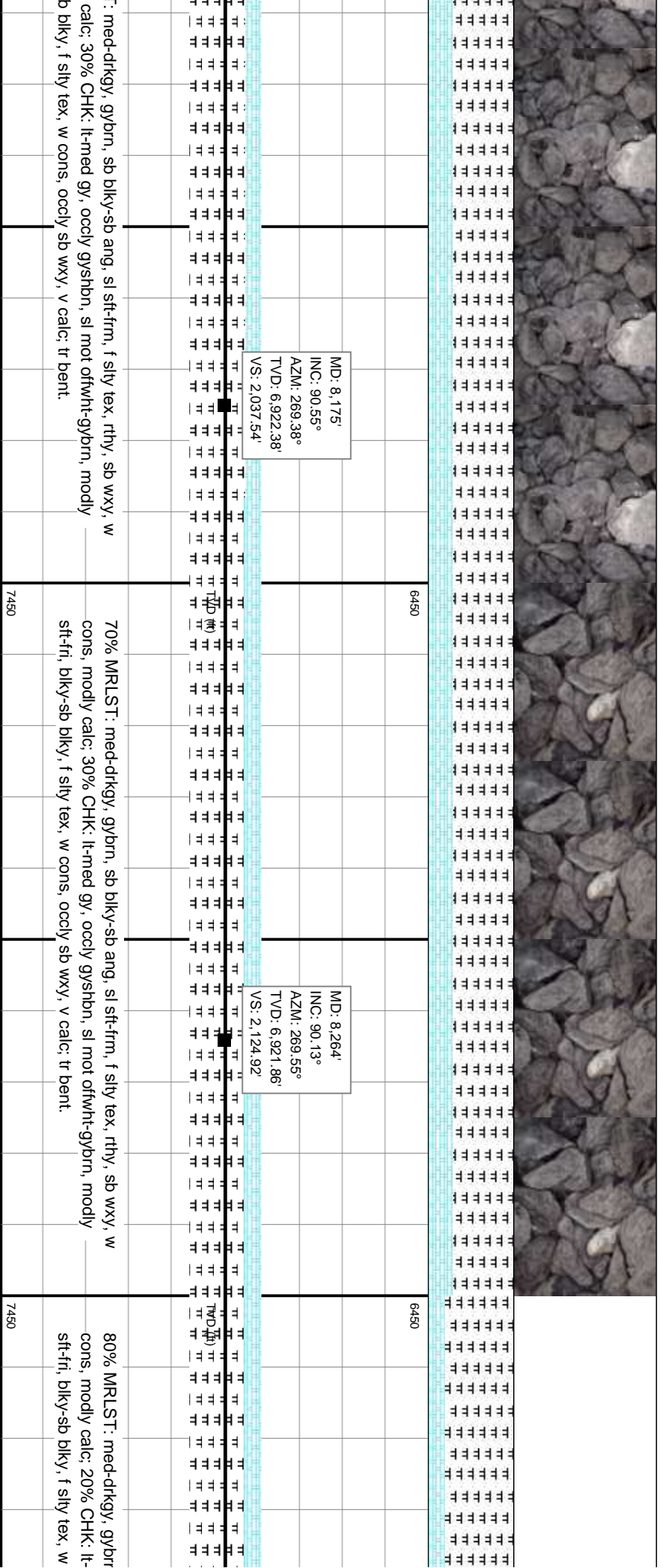
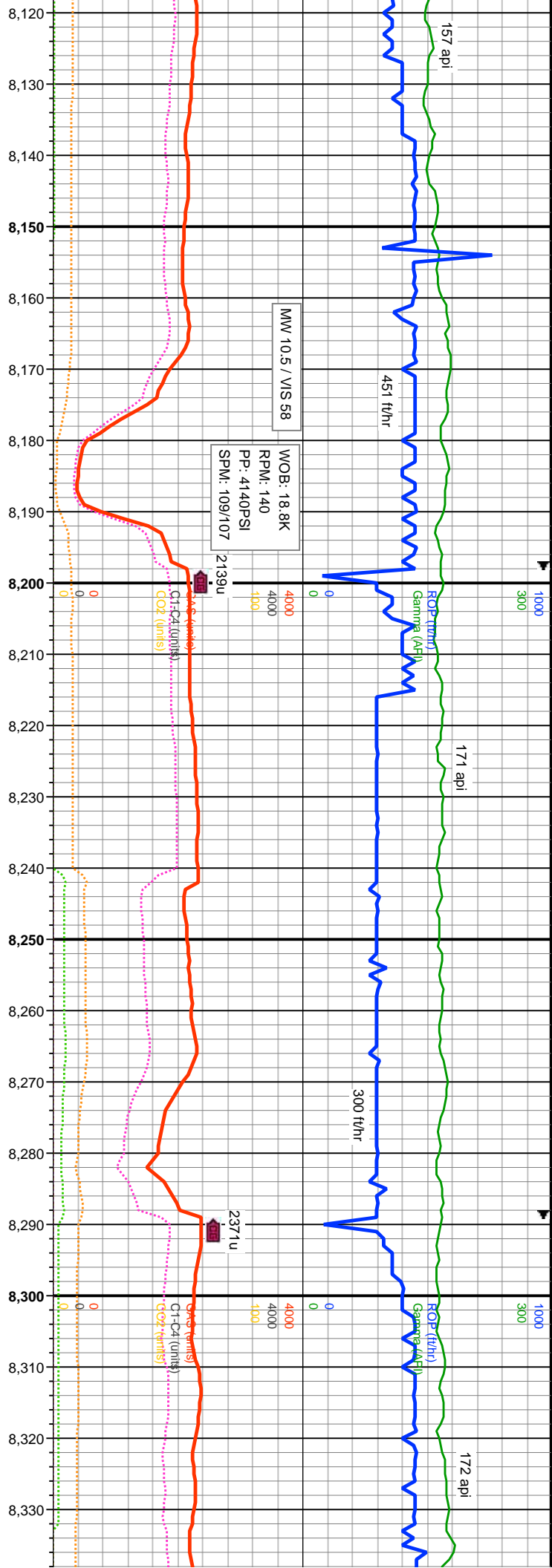




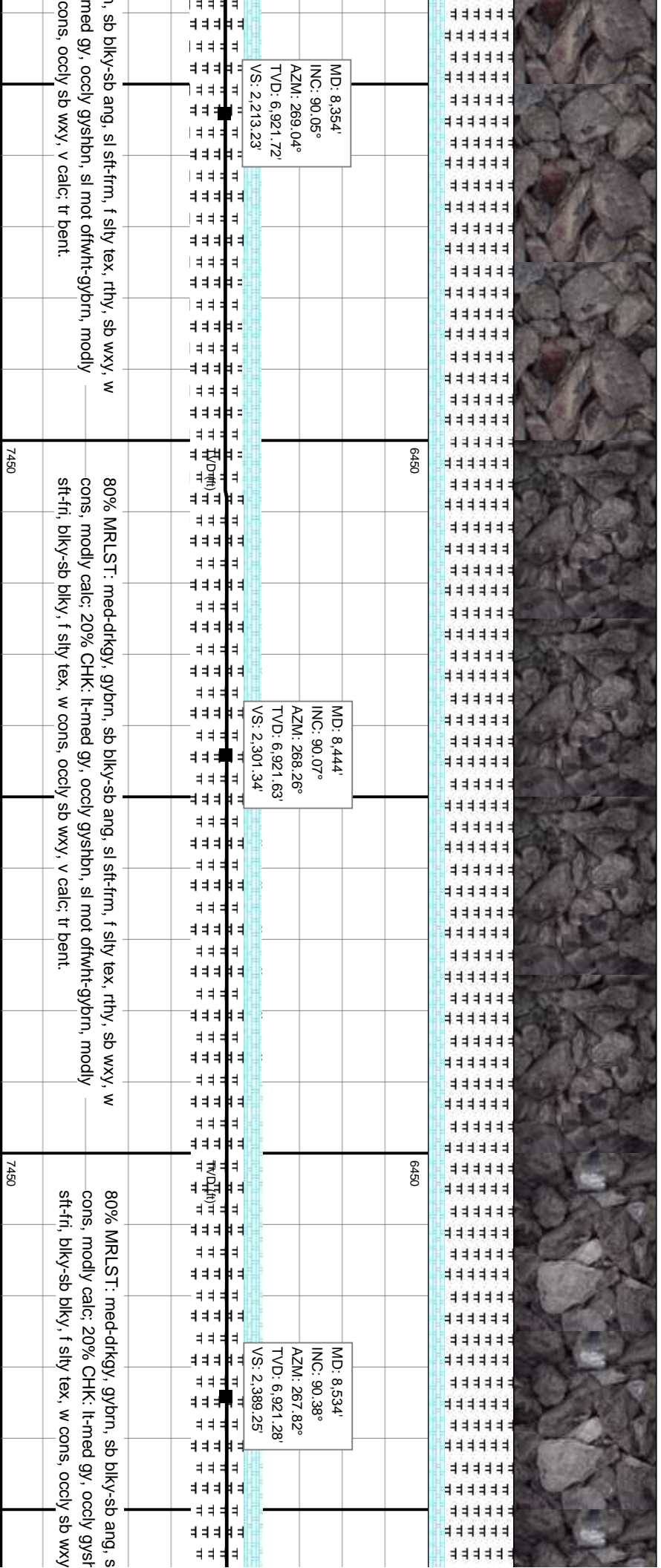
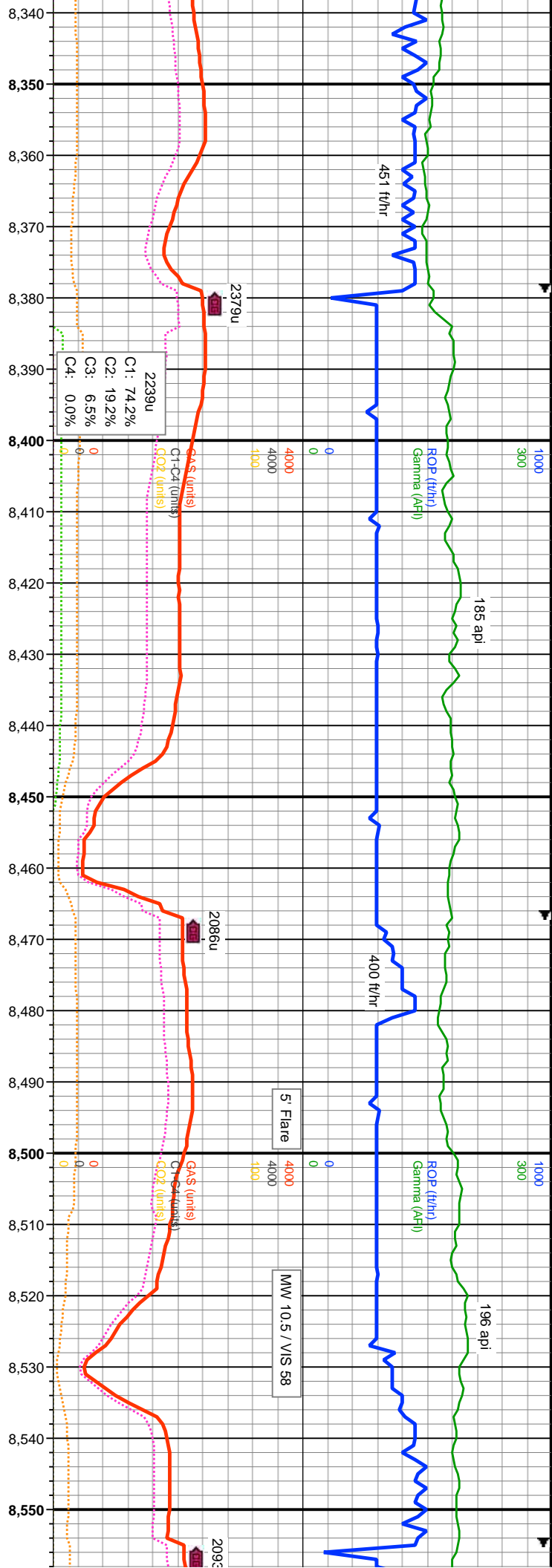


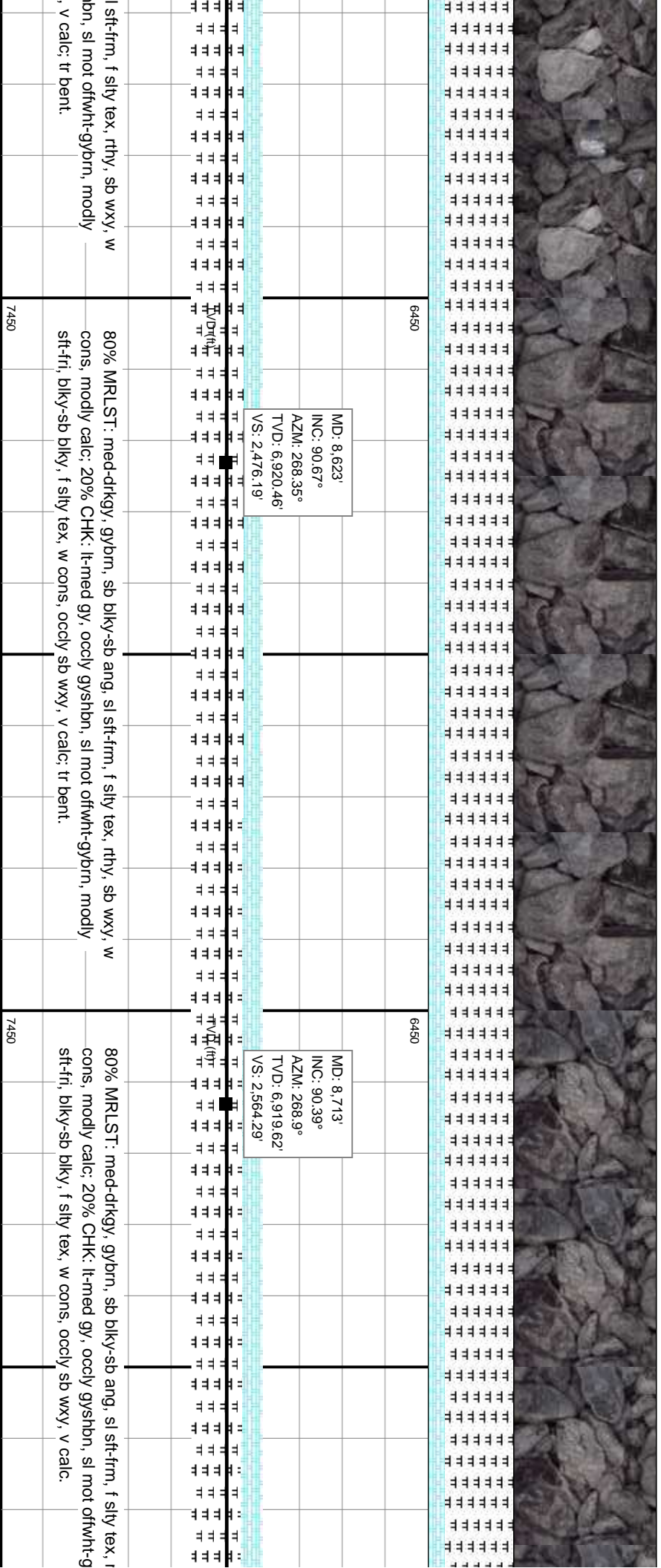
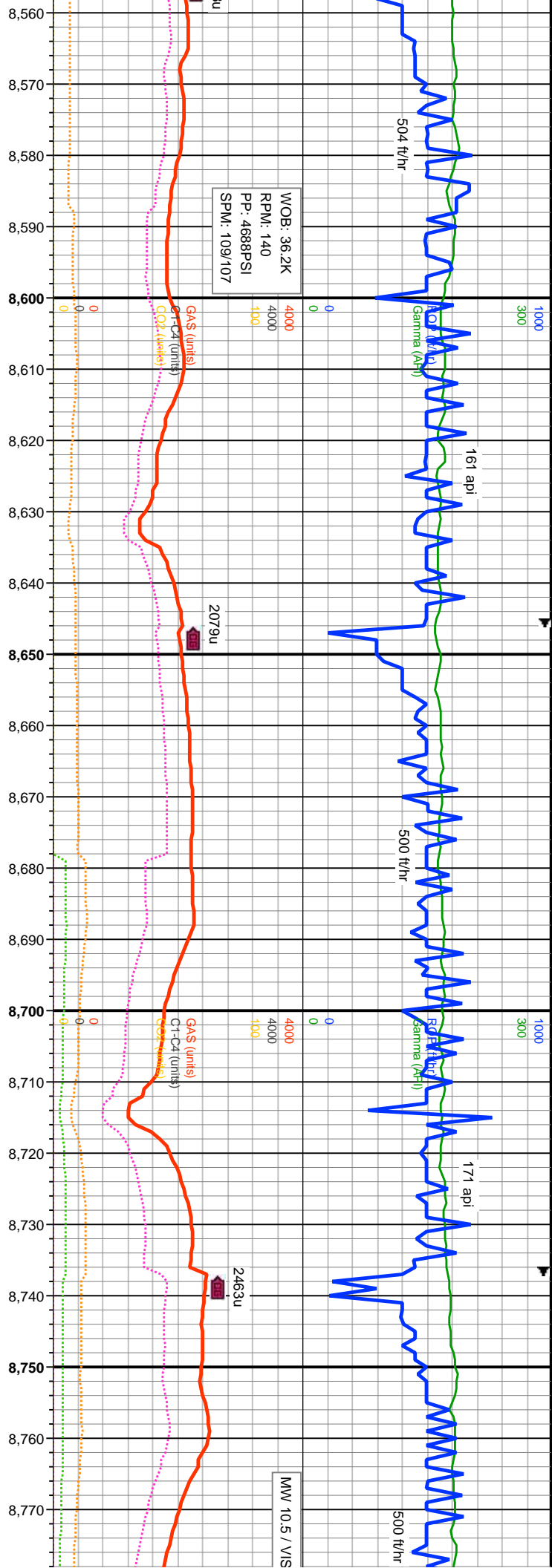






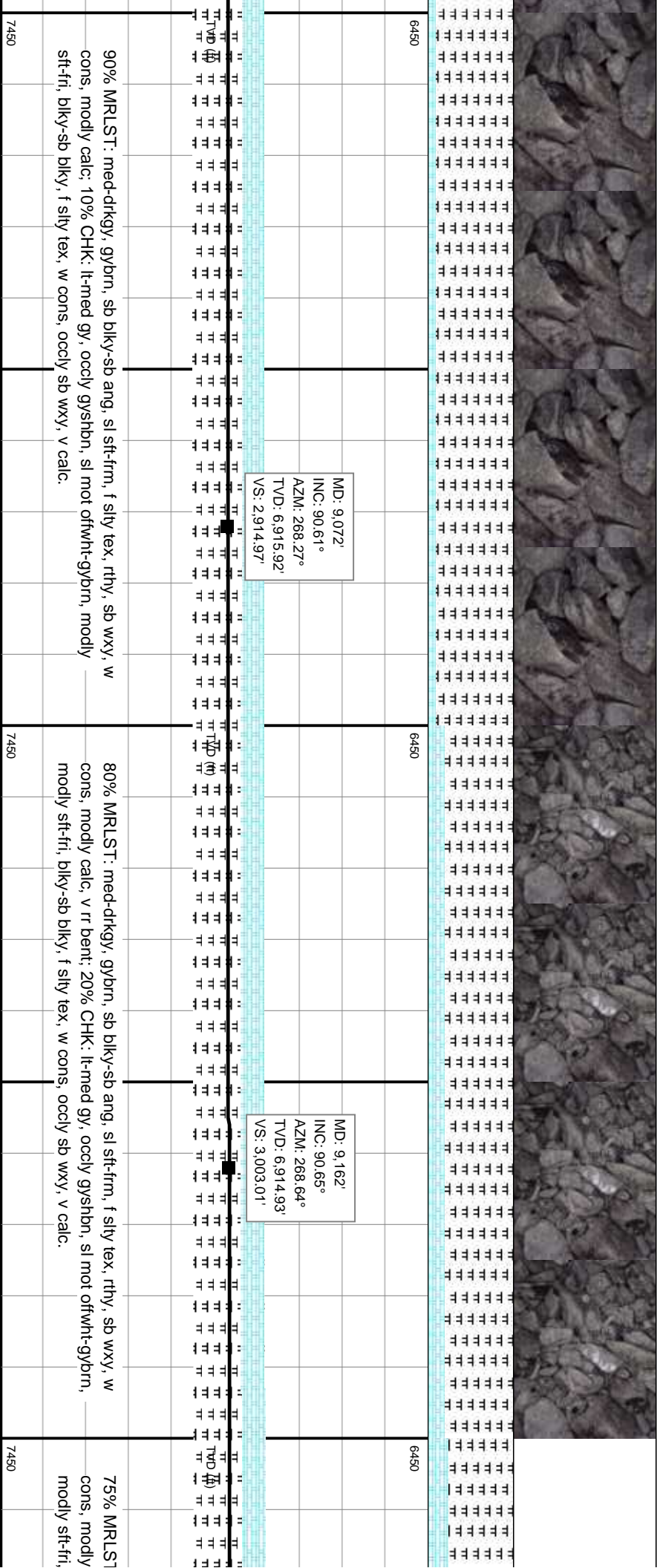
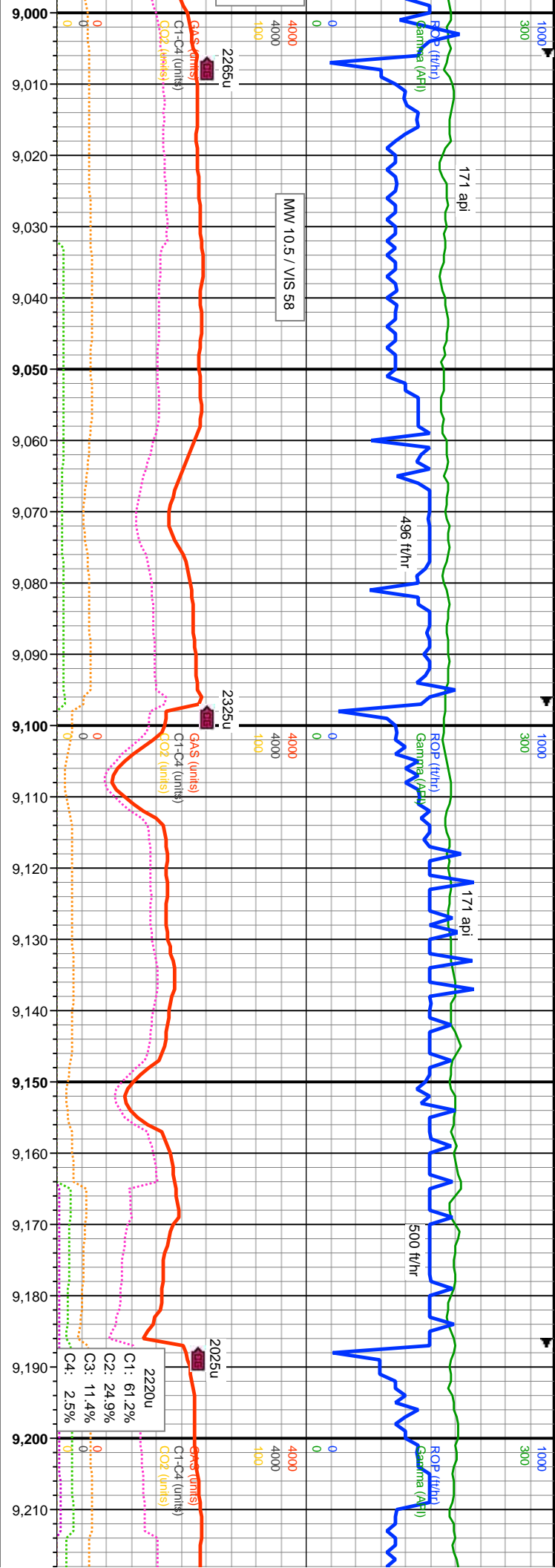


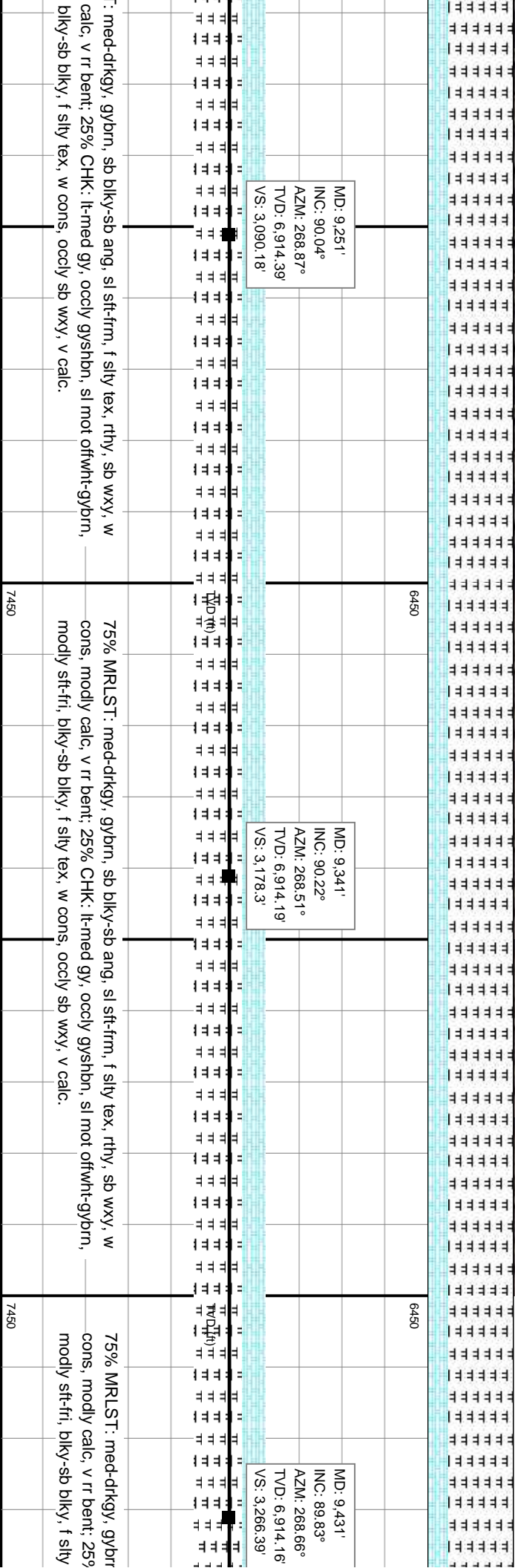
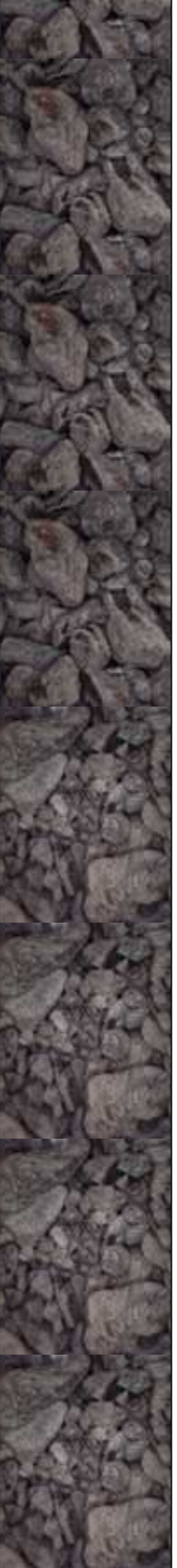
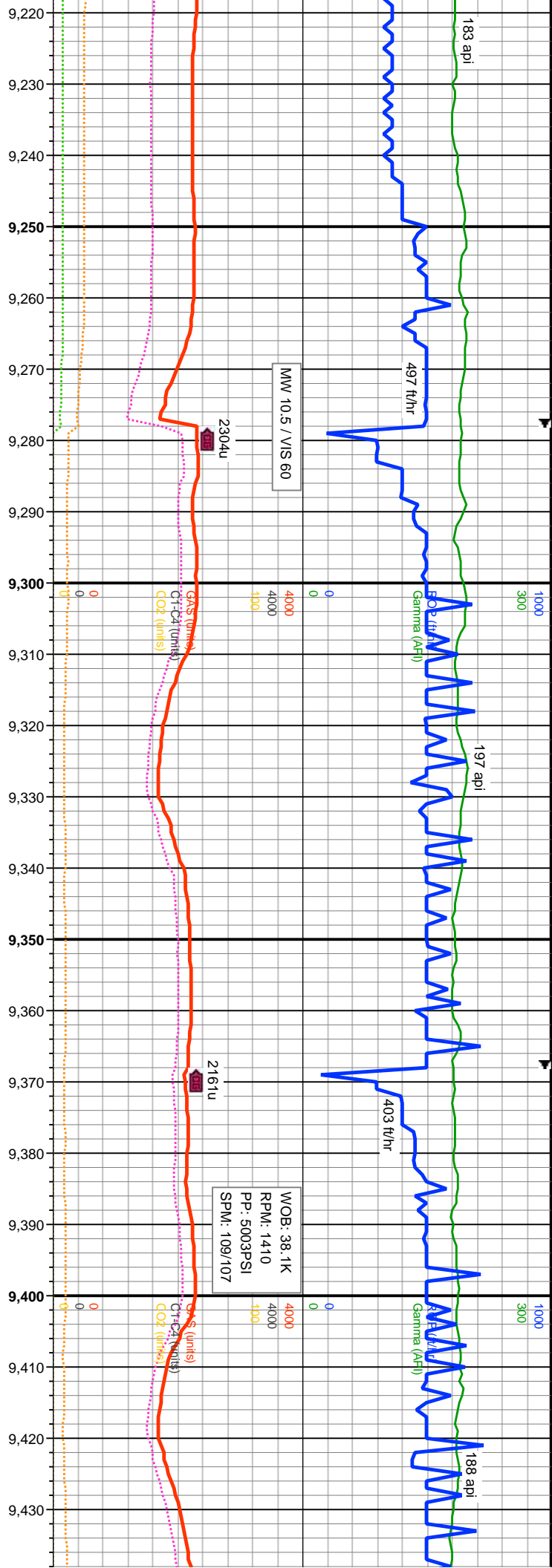


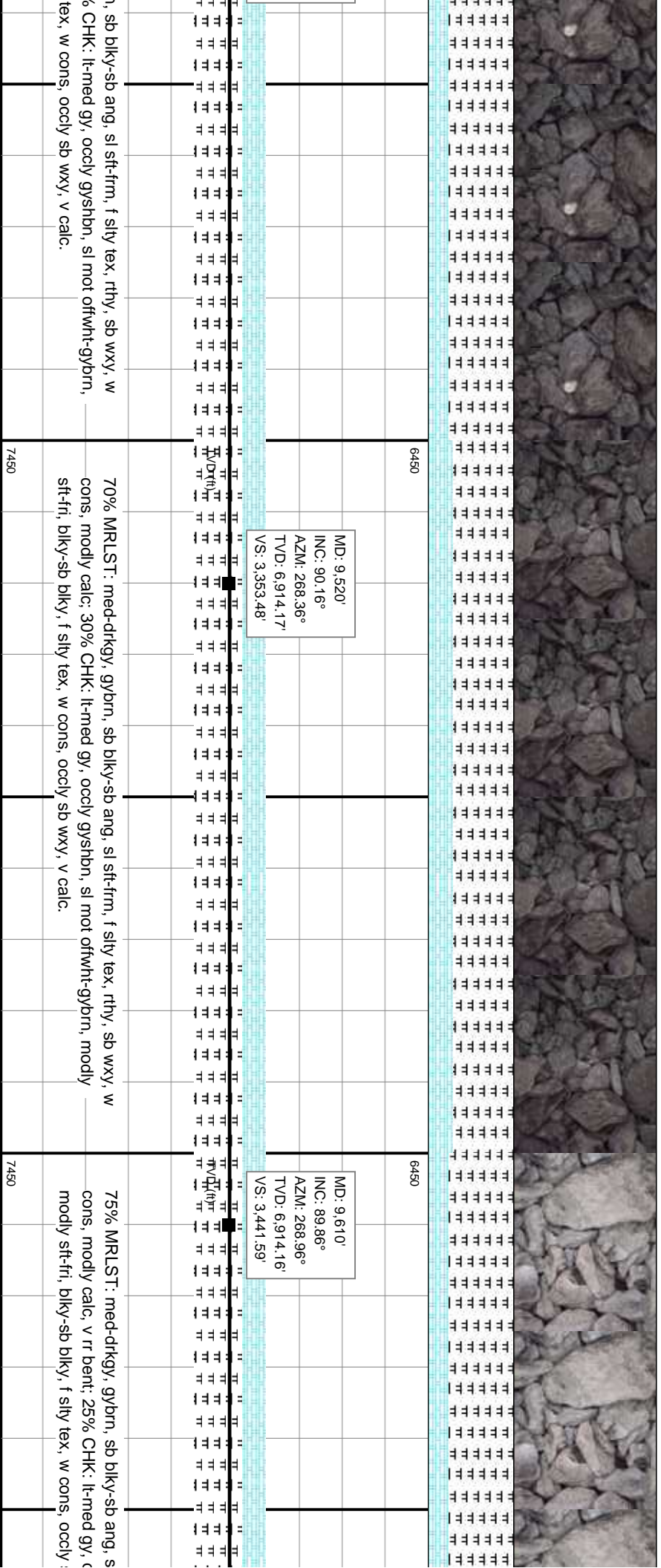
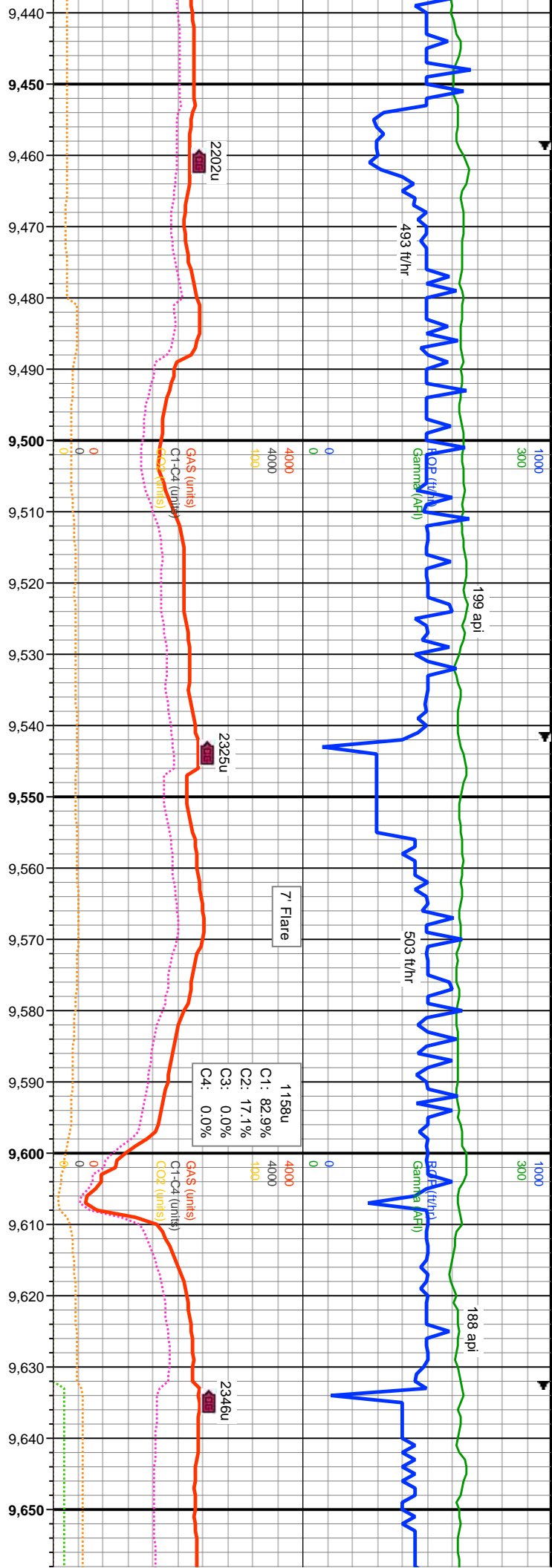




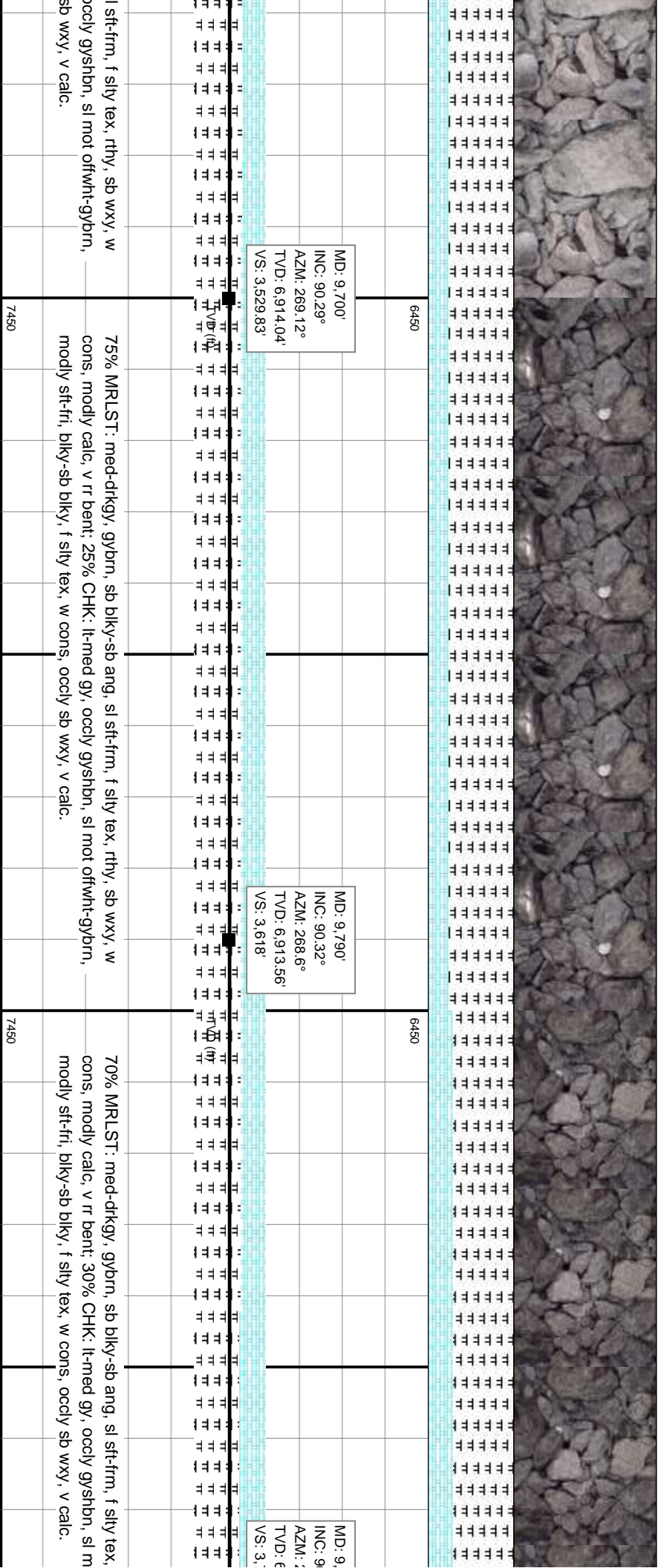
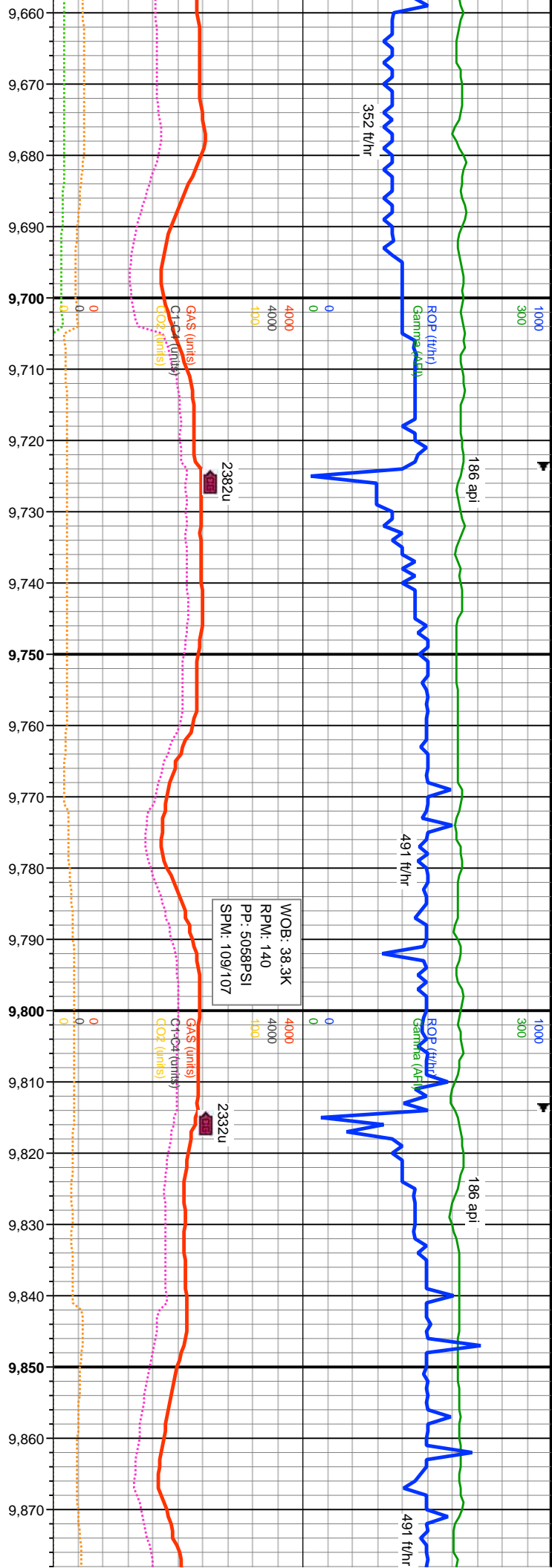


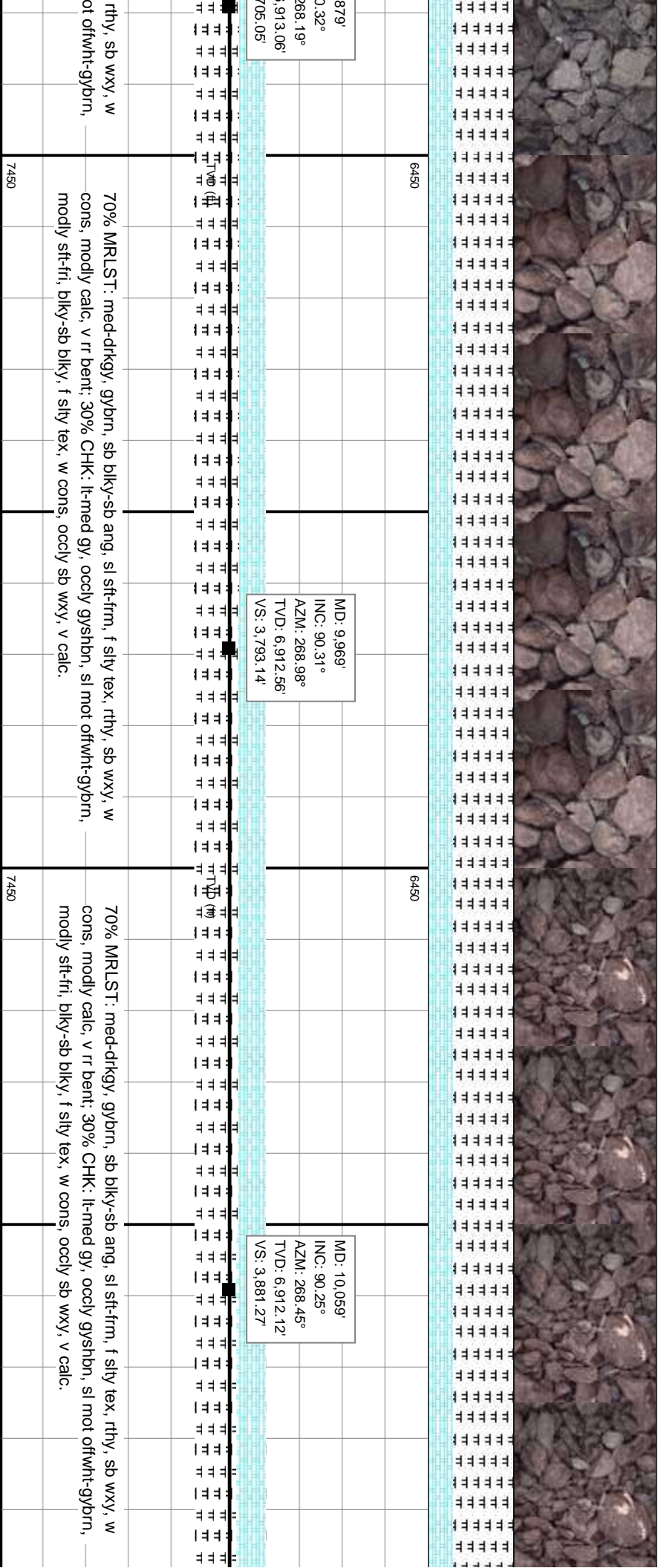
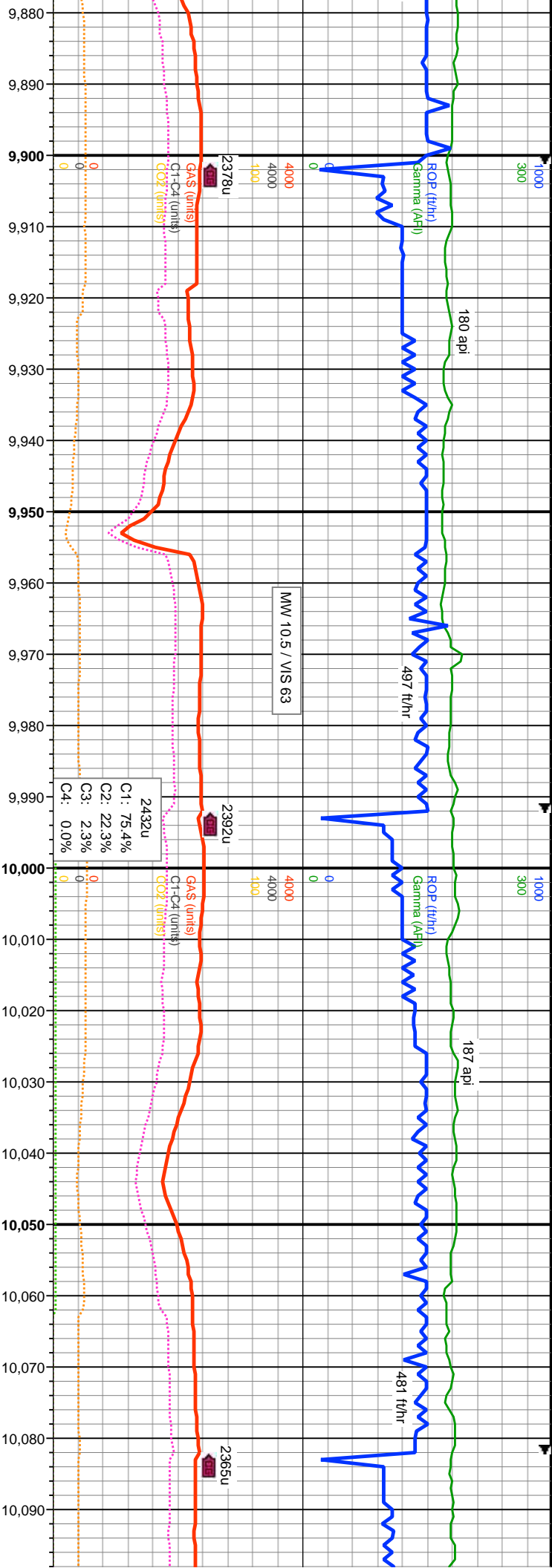




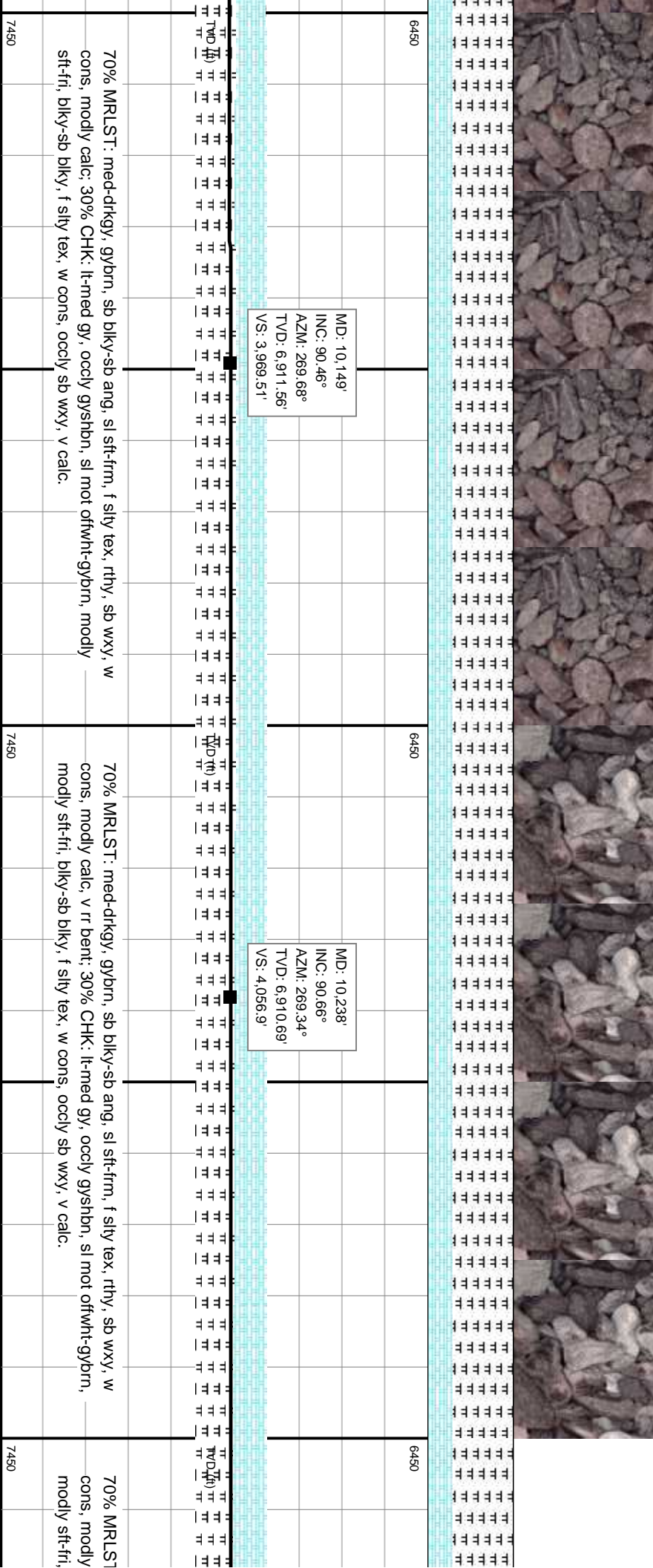
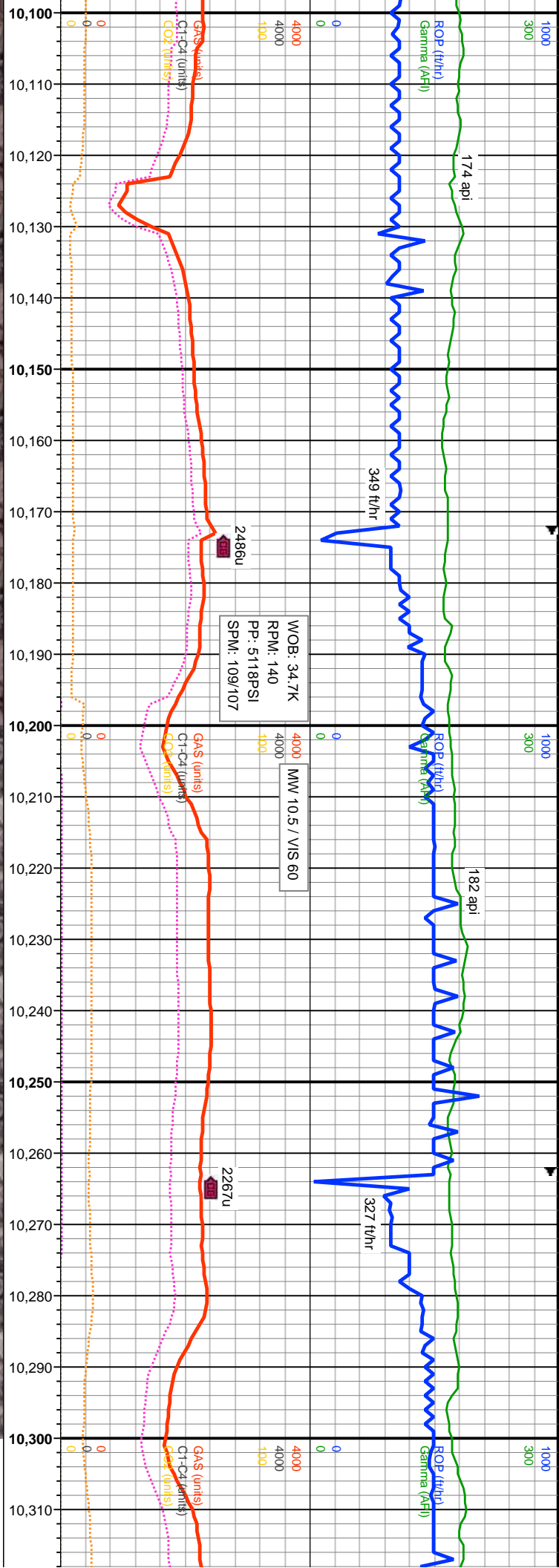




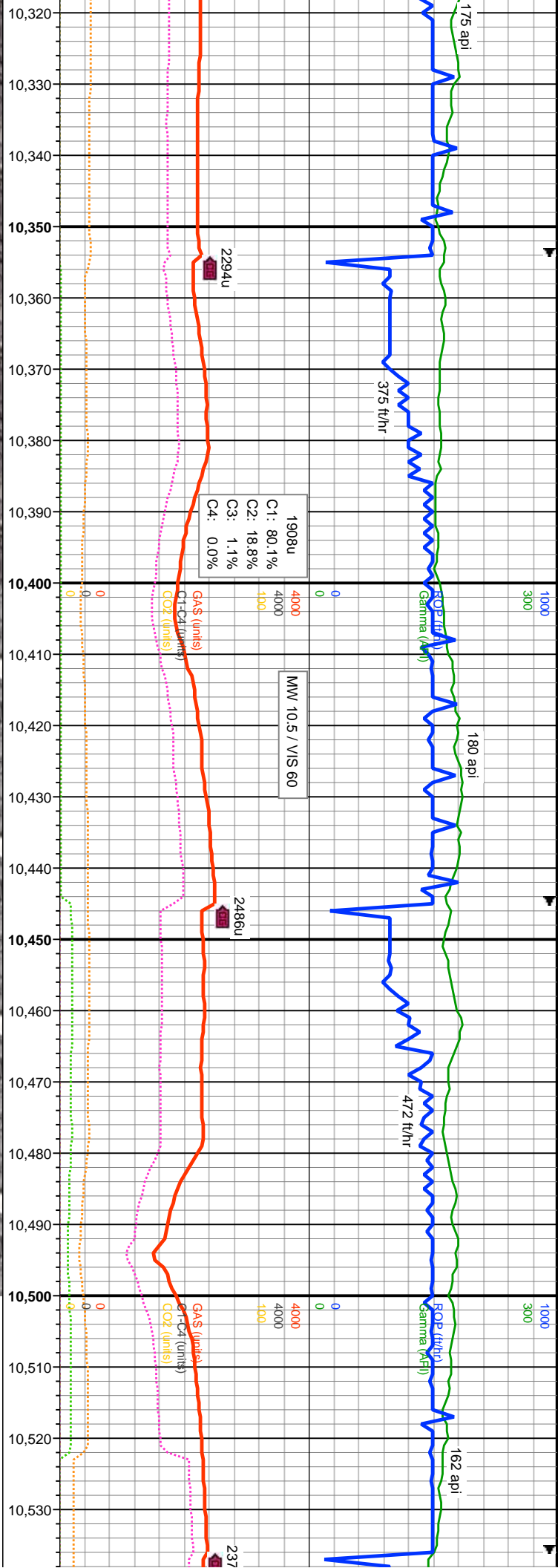












MD: 10,328'  
INC: 90.48°  
AZM: 269.15°  
TVD: 6,909.8'  
VS: 4,145.19'

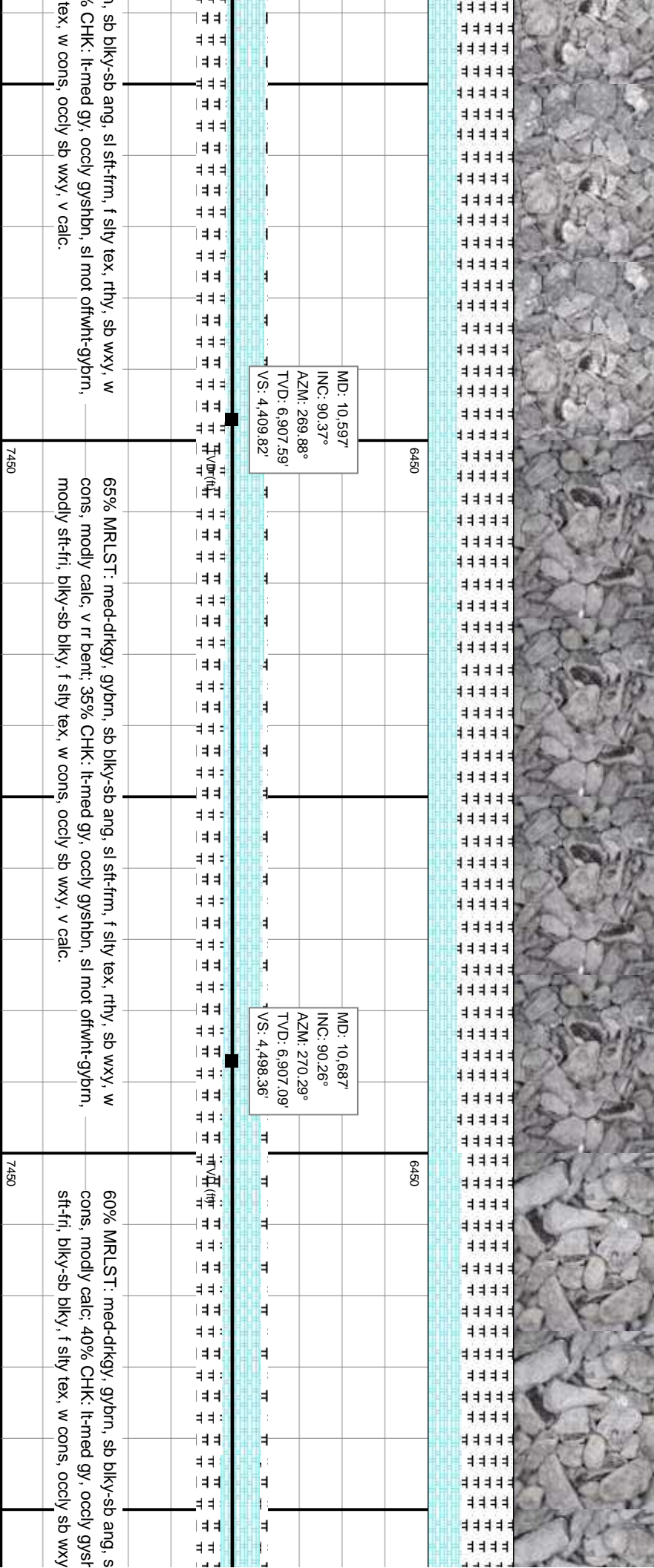
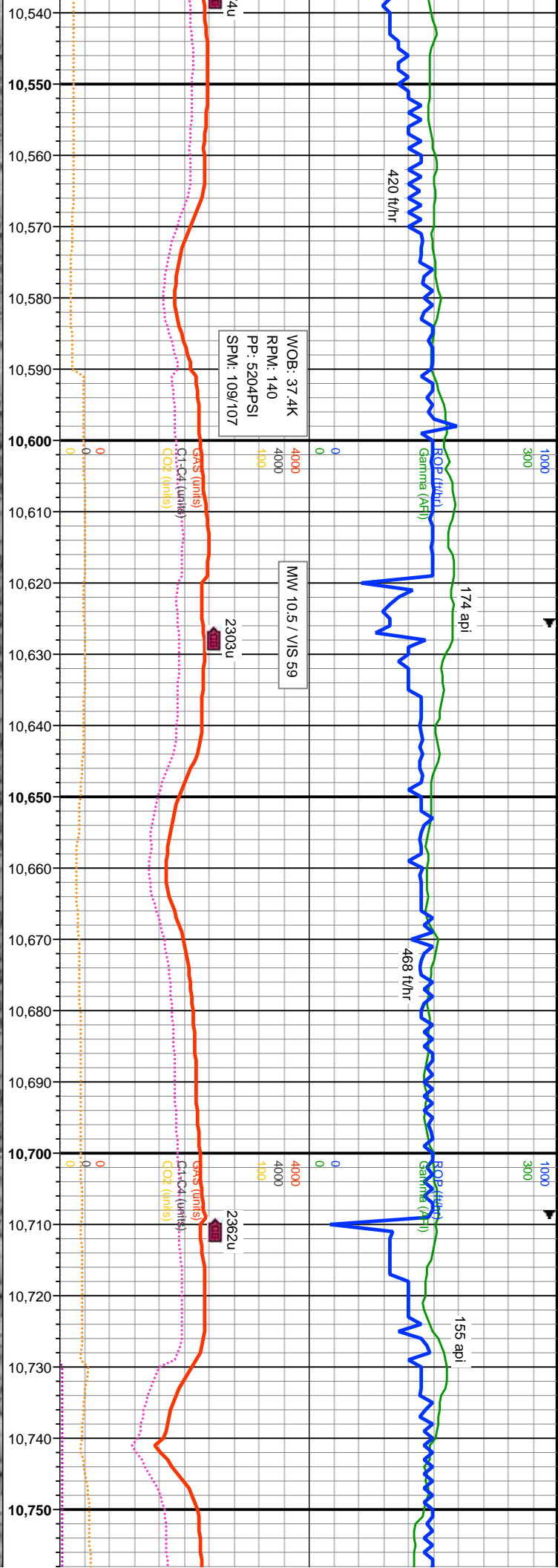
MD: 10,418'  
INC: 90.49°  
AZM: 269.91°  
TVD: 6,909.04'  
VS: 4,233.57'

MD: 10,507'  
INC: 90.5°  
AZM: 270.86°  
TVD: 6,908.27'  
VS: 4,321.21'

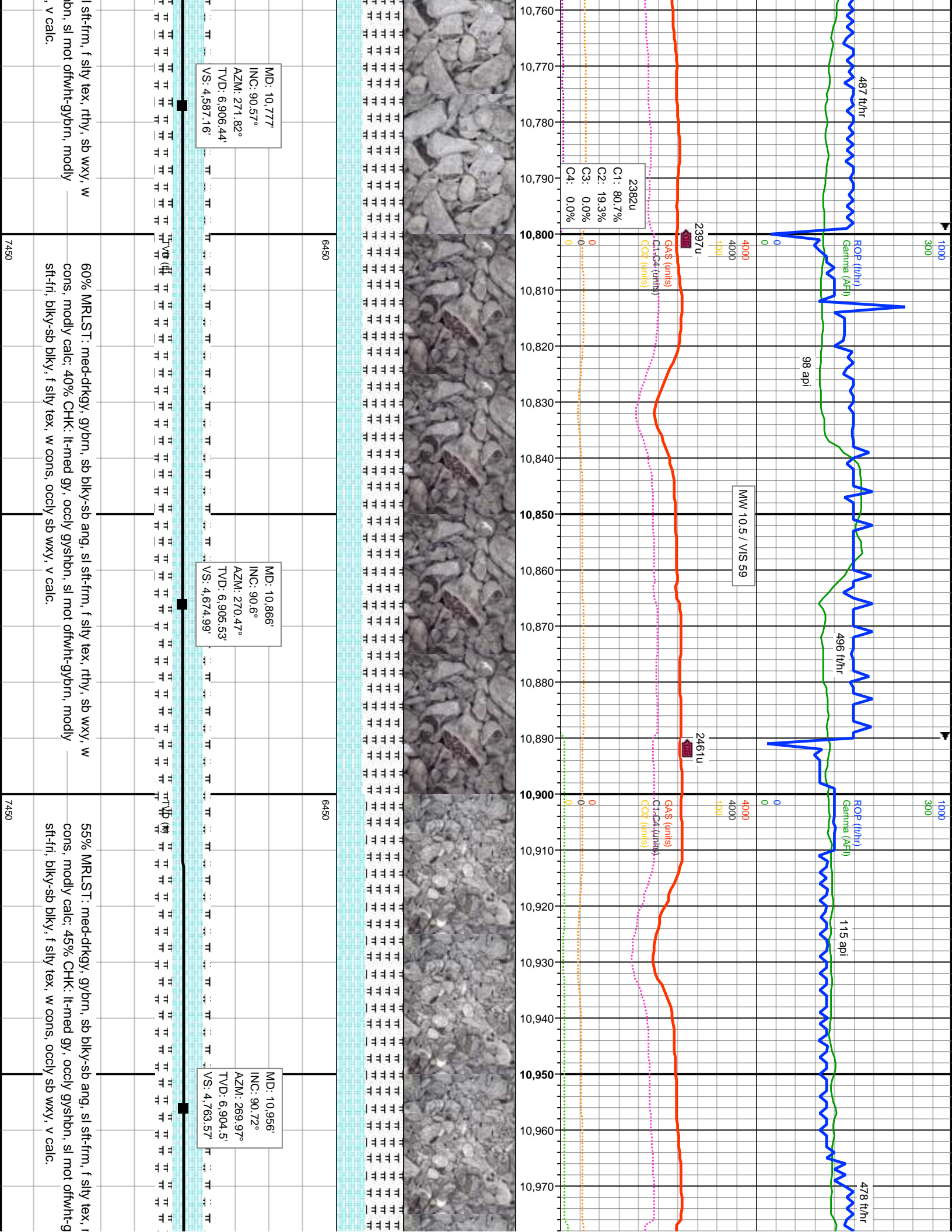
: med-drkg, gybrn, sb blkly-sb ang, sl sft-frm, f stly tex, rthy, sb wxy, w  
calc, rr bent, 30% CHK: lt-med gy, occly gysbhn, sl mot offwht-gybrn,  
blkly-sb blkly, f stly tex, w cons, occly sb wxy, v calc.

70% MRLST: med-drkg, gybrn, sb blkly-sb ang, sl sft-frm, f stly tex, rthy, sb wxy, w  
cons, modly calc, rr bent, 30% CHK: lt-med gy, occly gysbhn, sl mot offwht-gybrn,  
modly sft-fri, blkly-sb blkly, f stly tex, w cons, occly sb wxy, v calc.

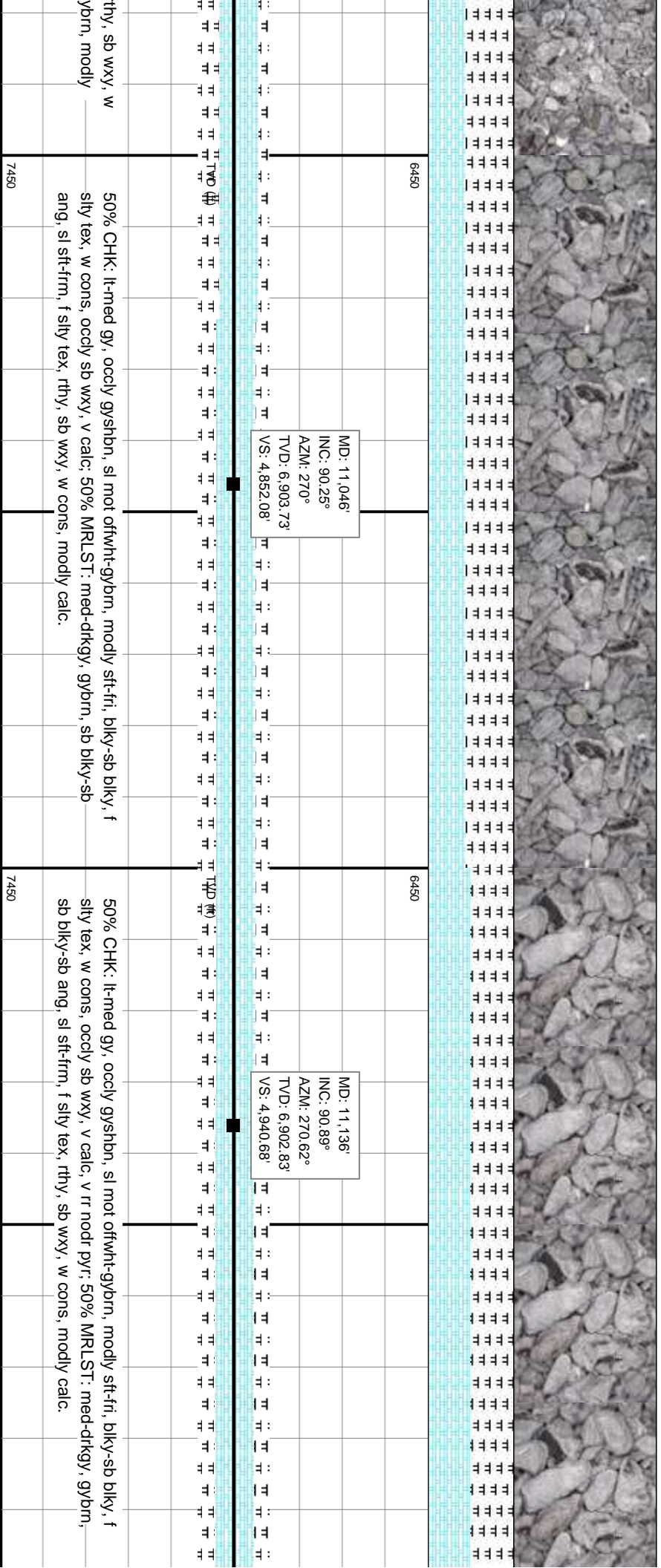
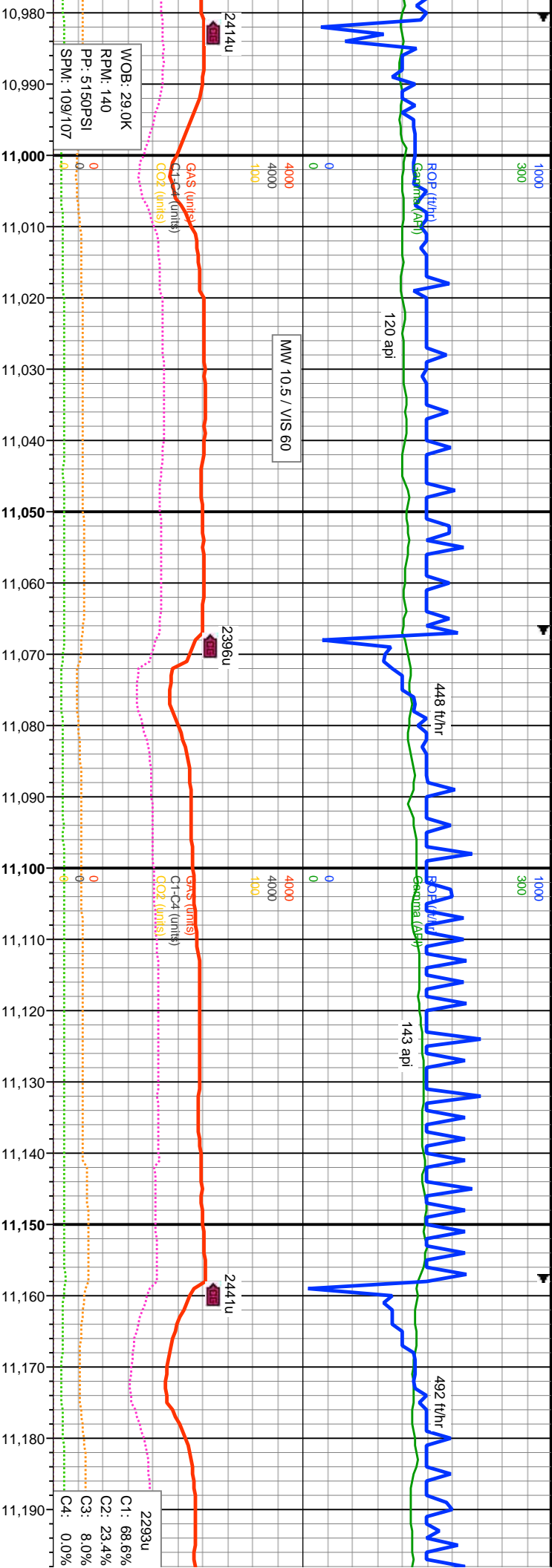
65% MRLST: med-drkg, gybrn  
cons, modly calc, v rr bent, 35%  
modly sft-fri, blkly-sb blkly, f stly

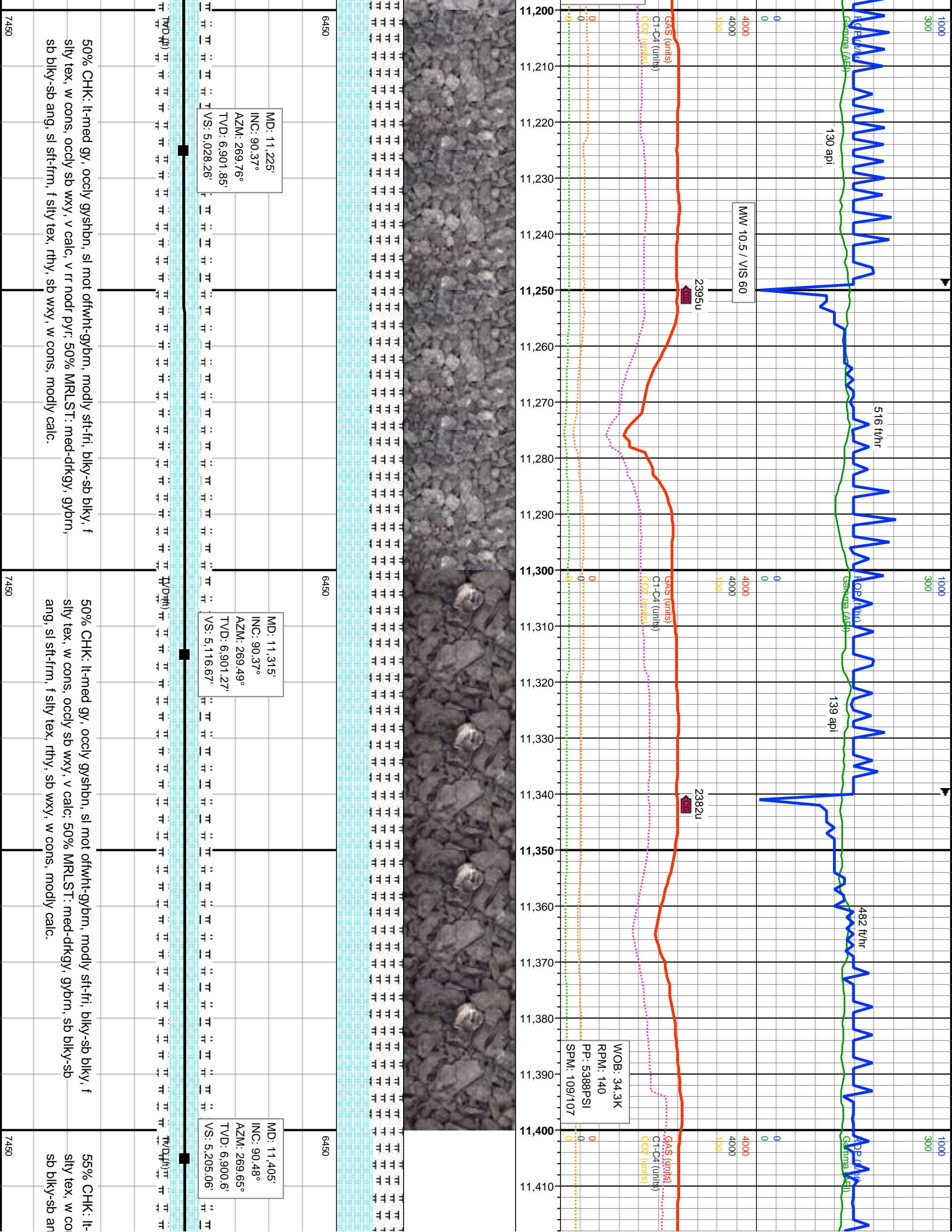




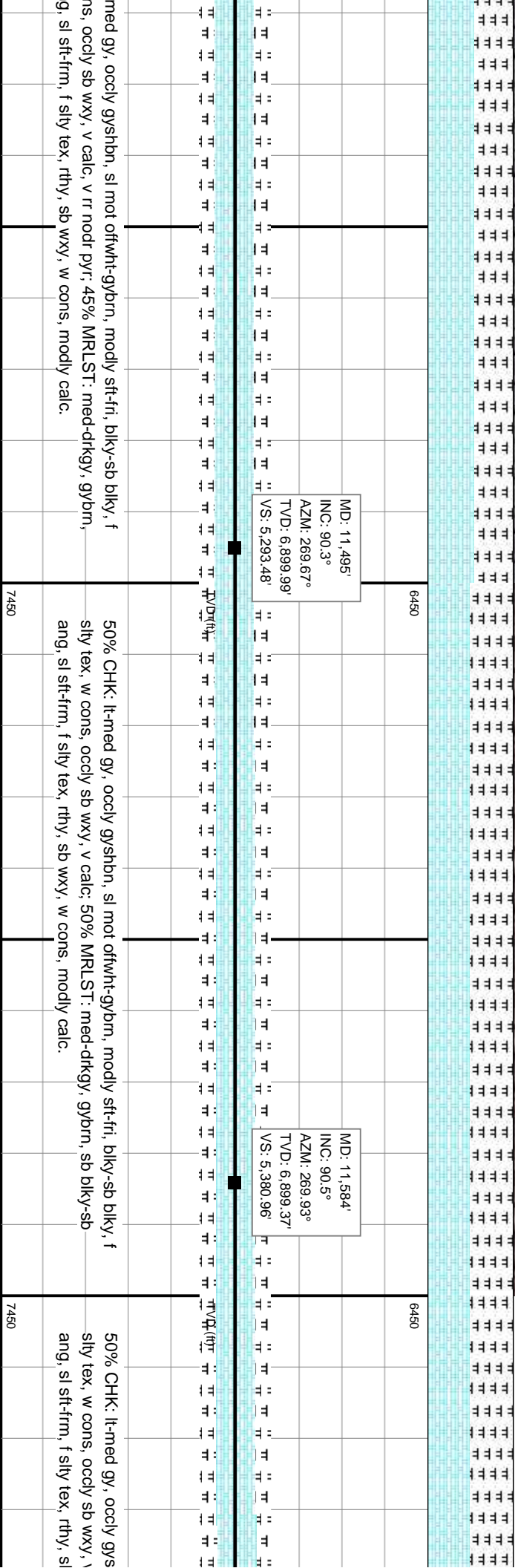
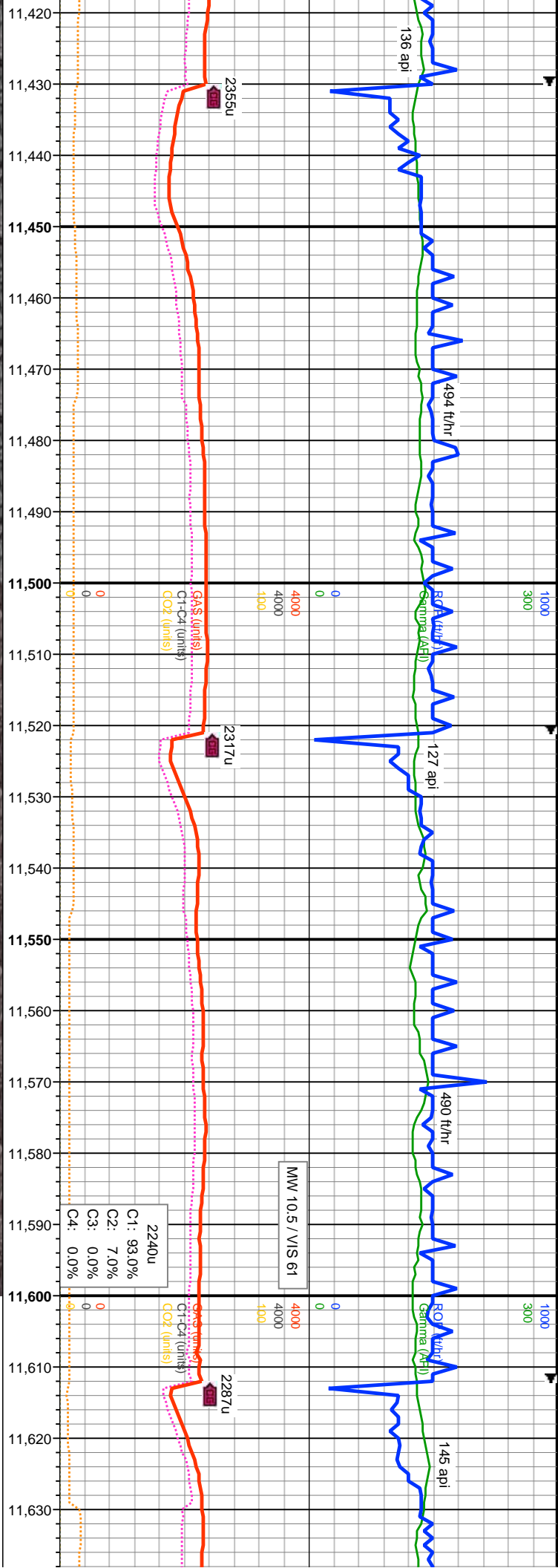




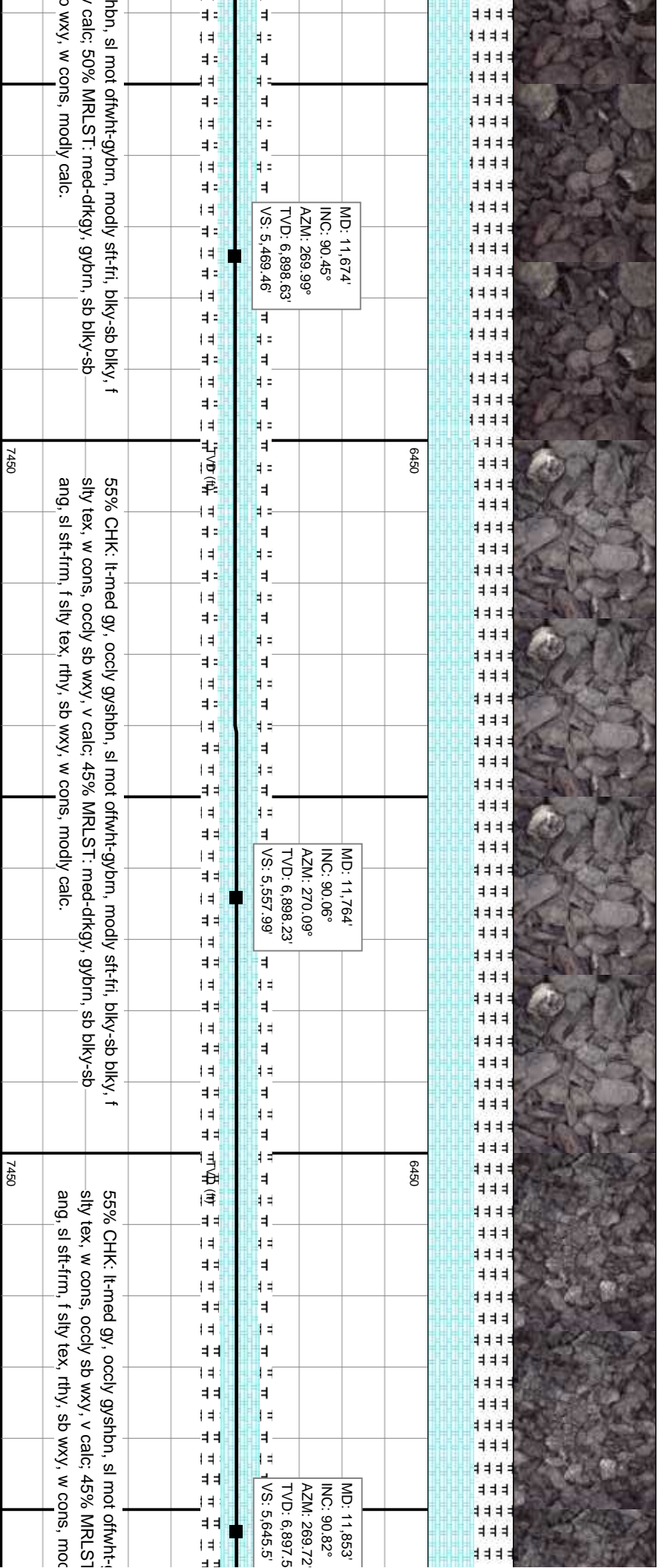
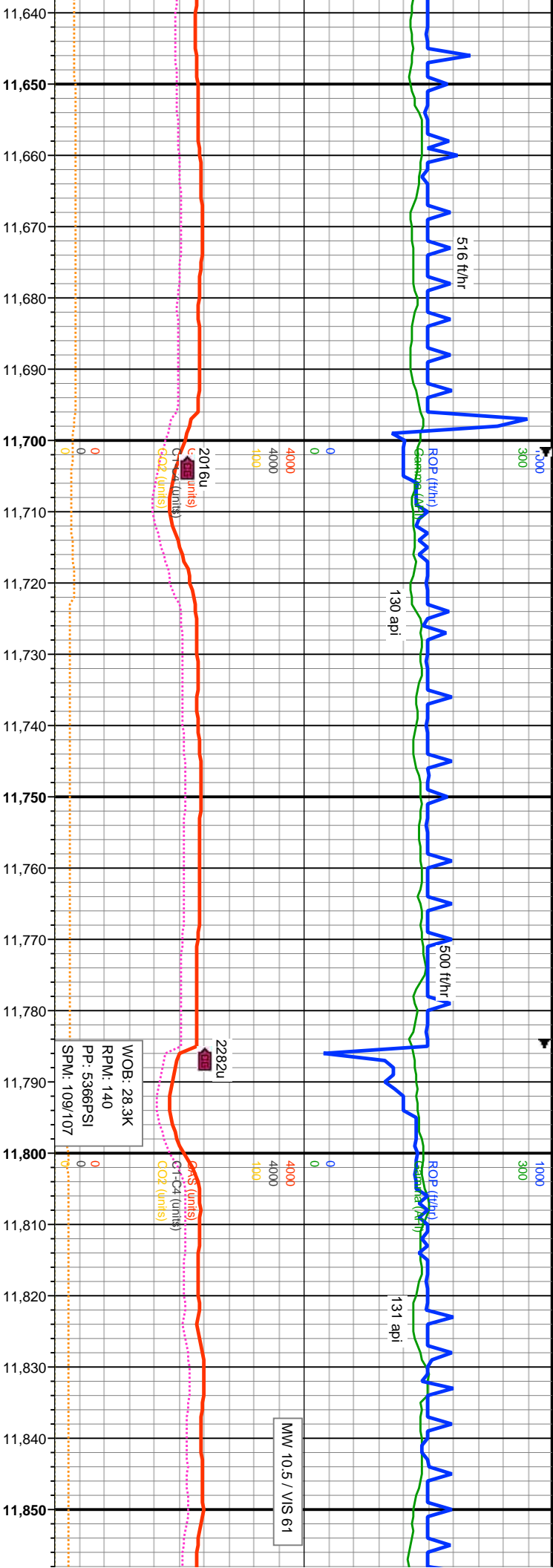


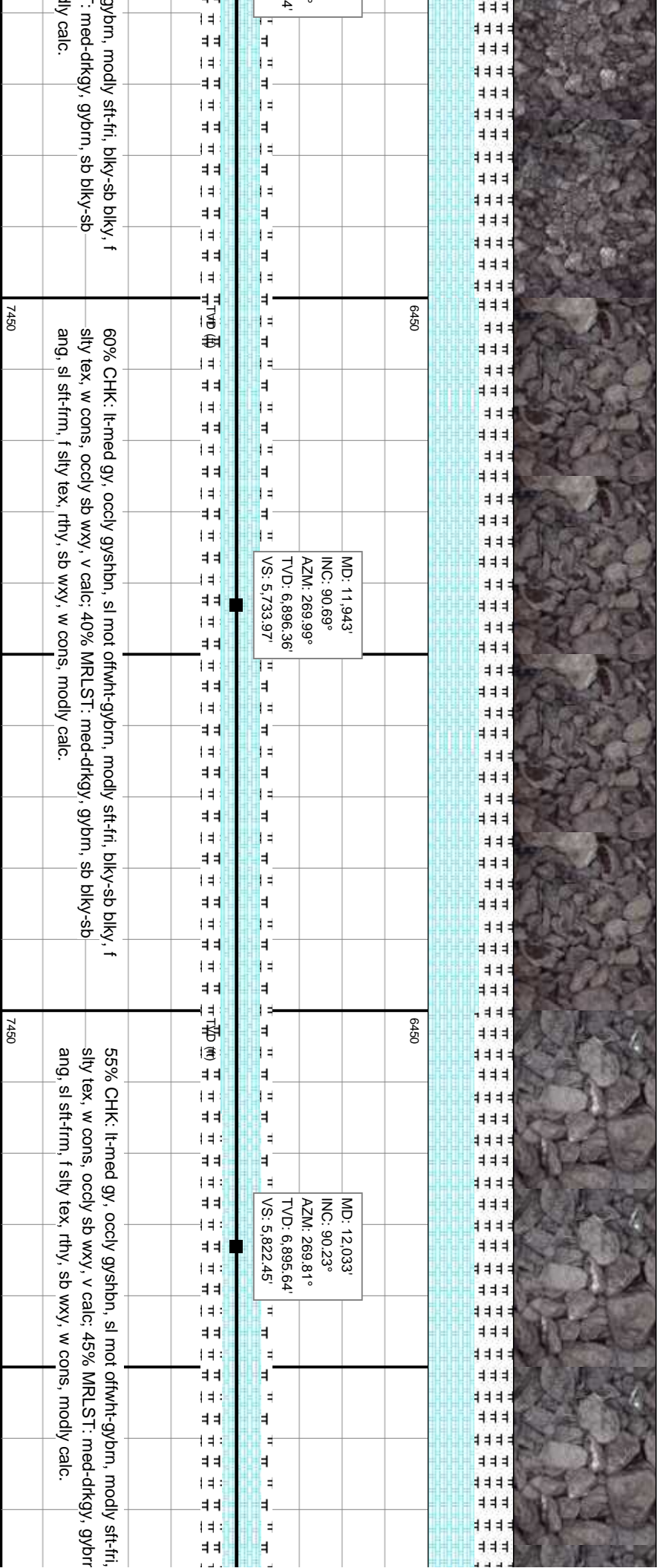
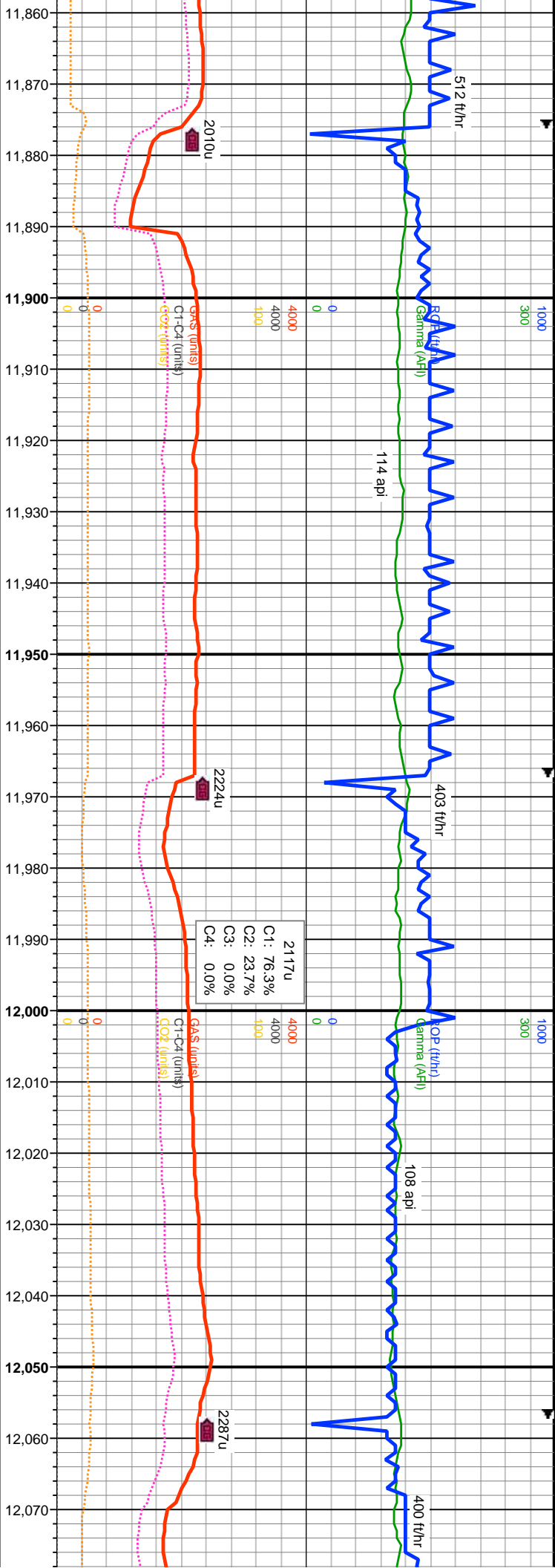




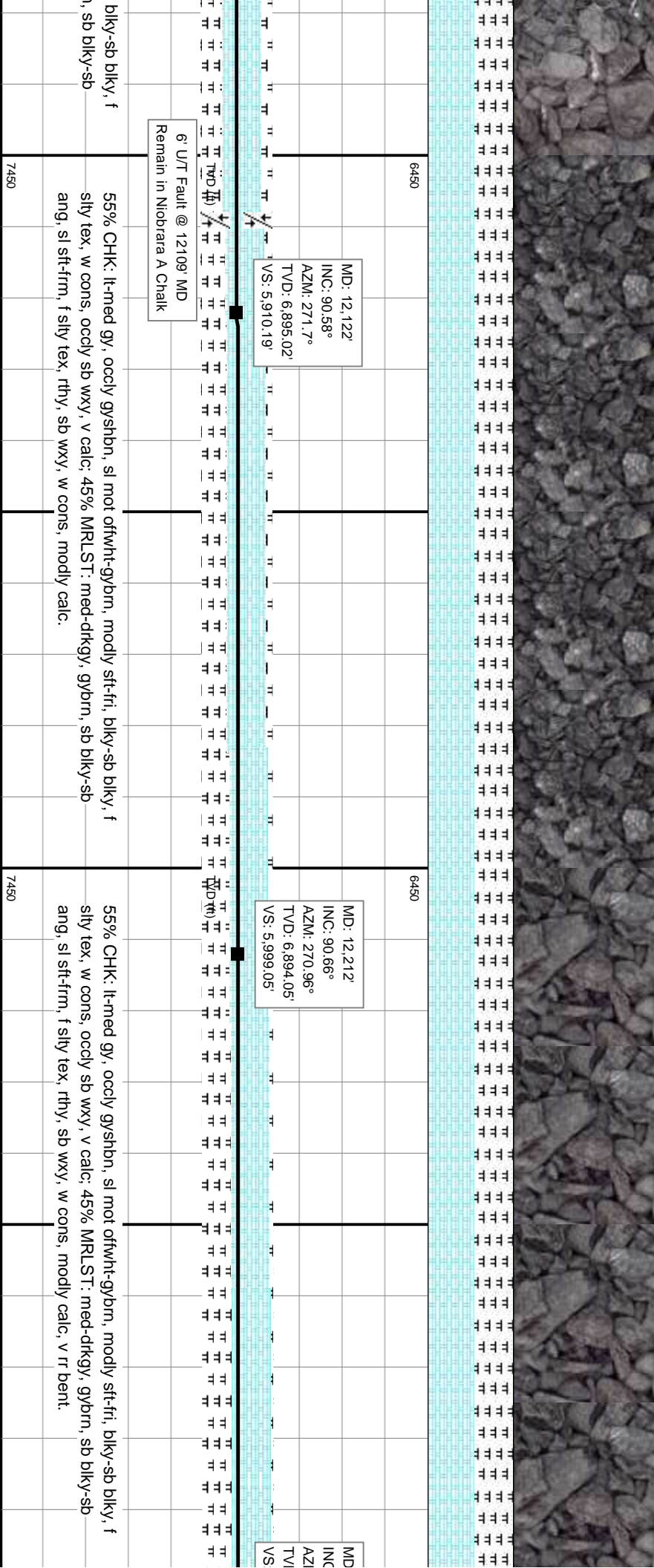
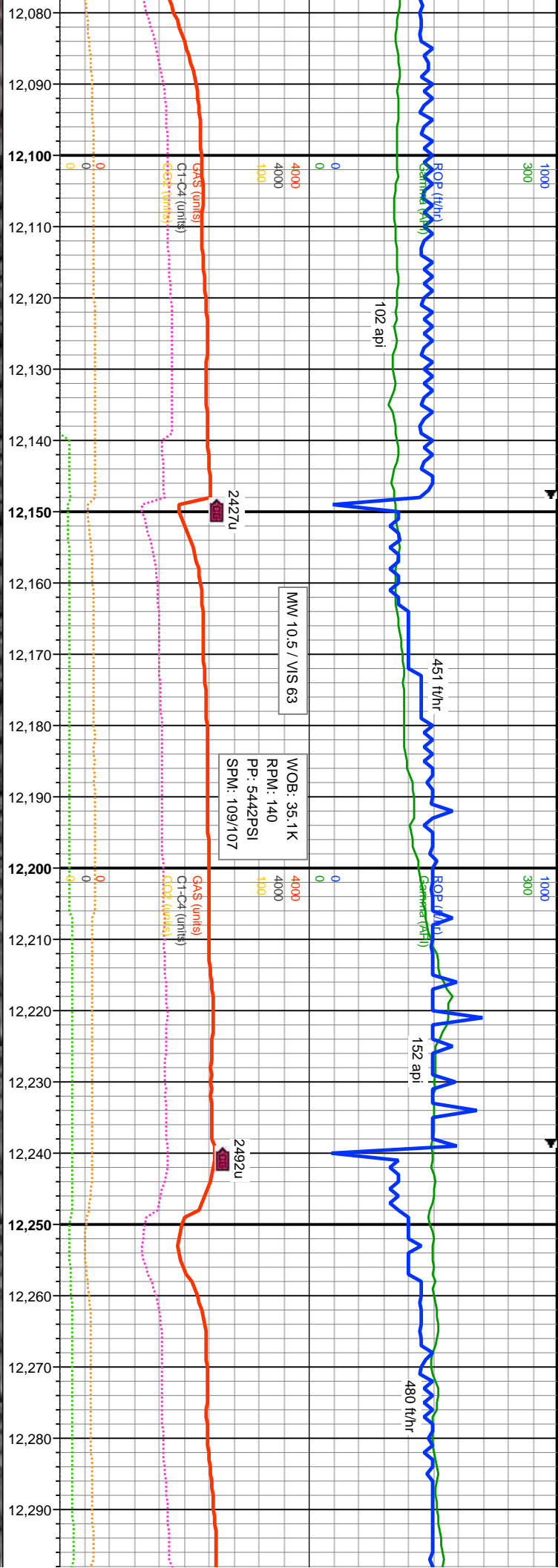




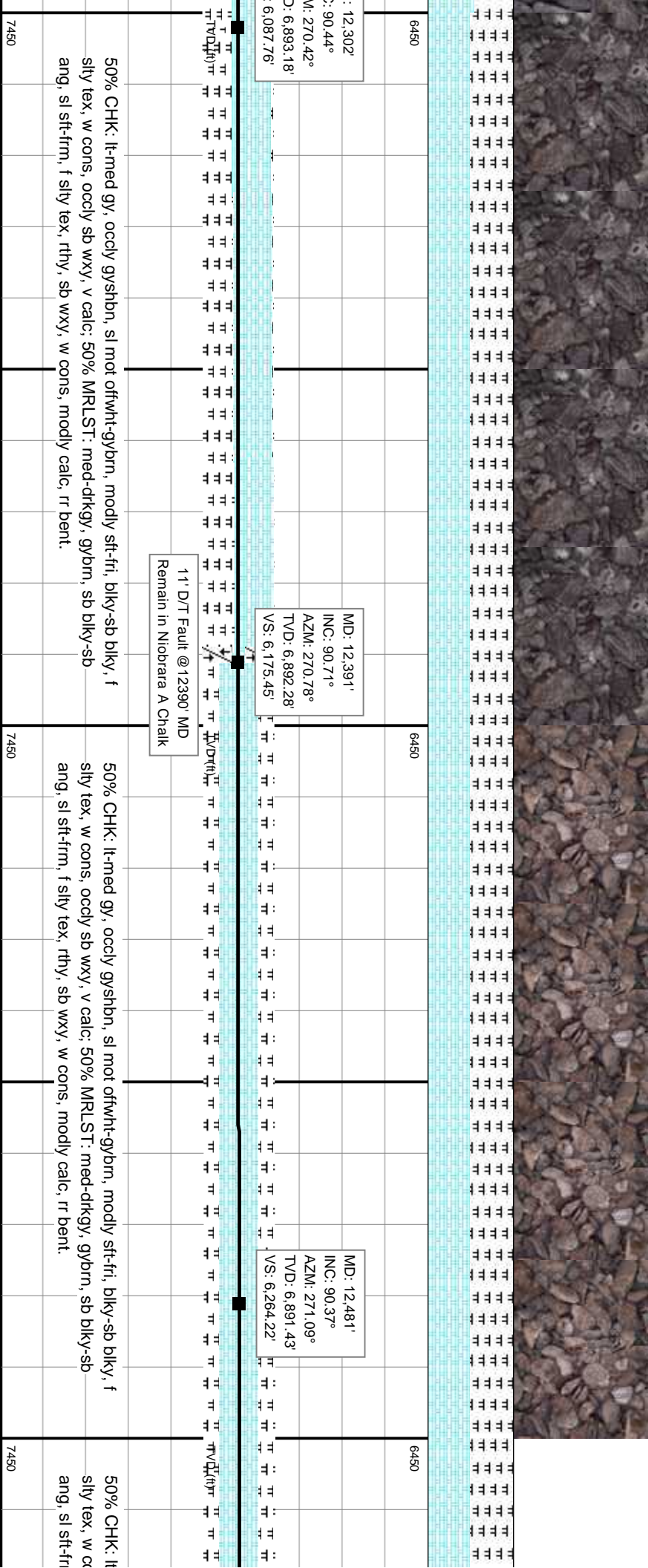
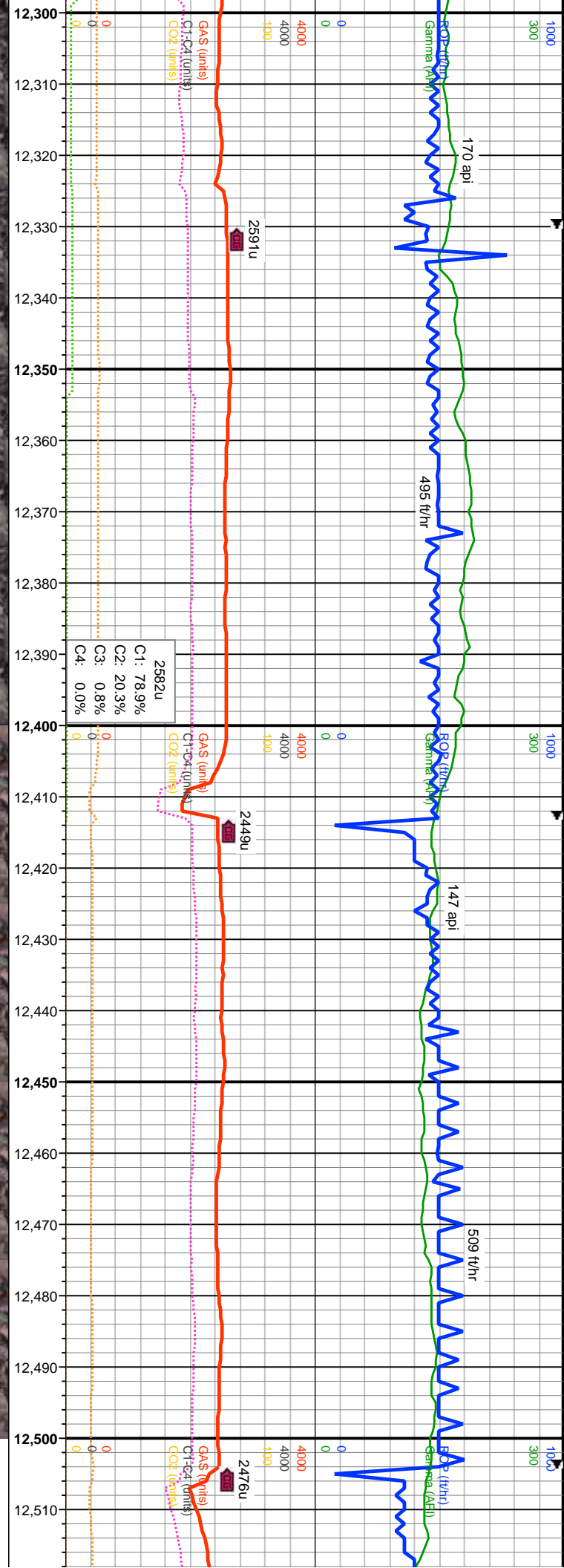


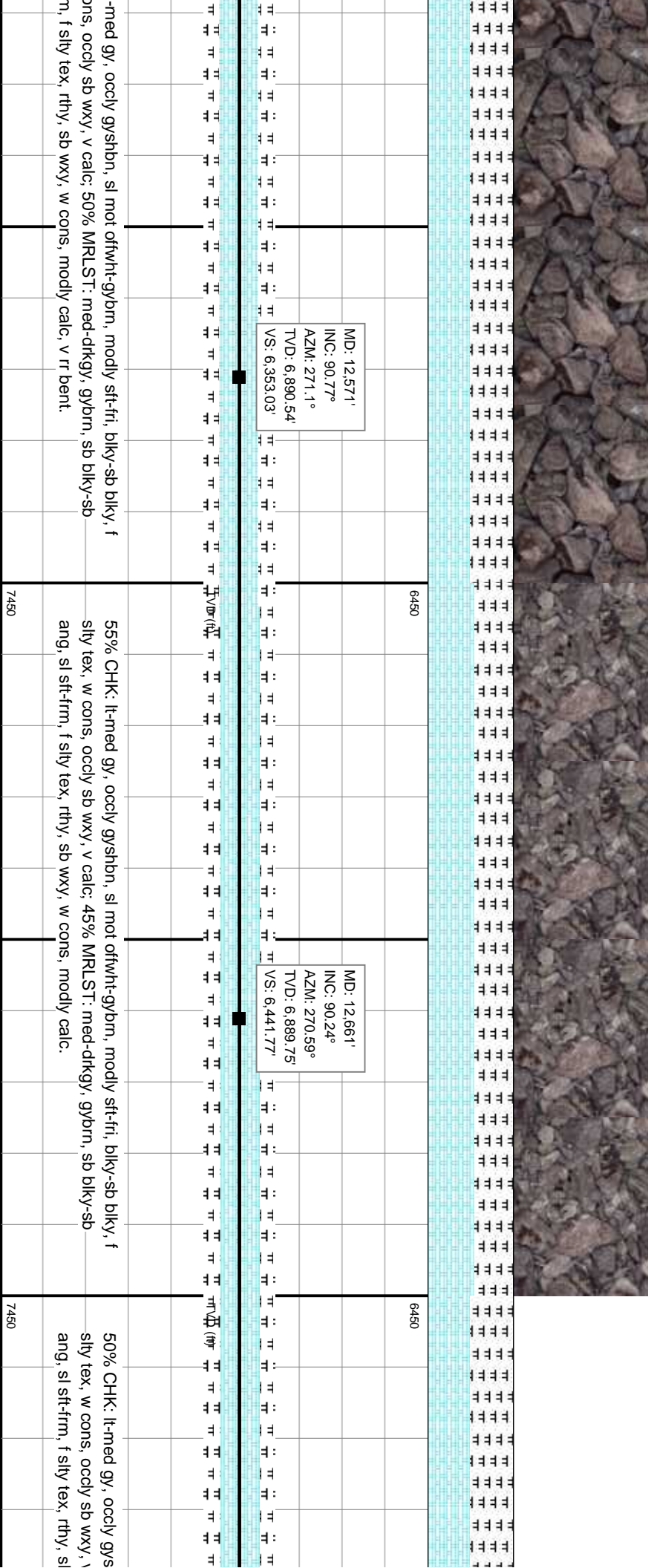
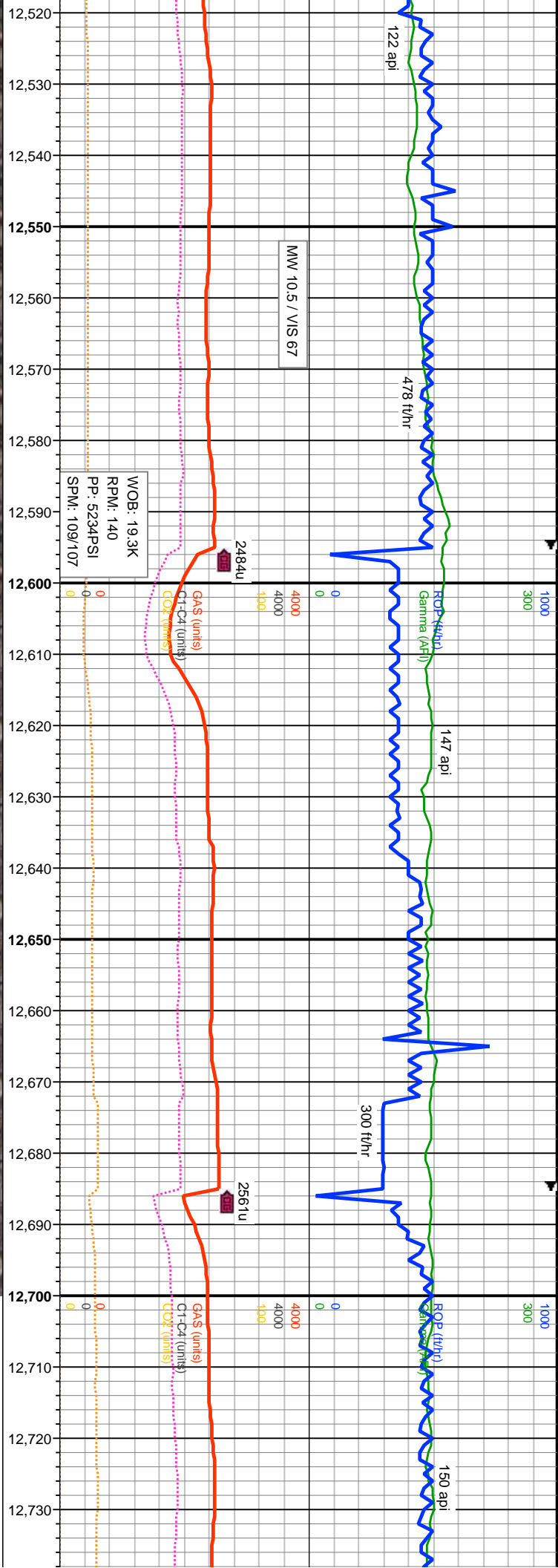




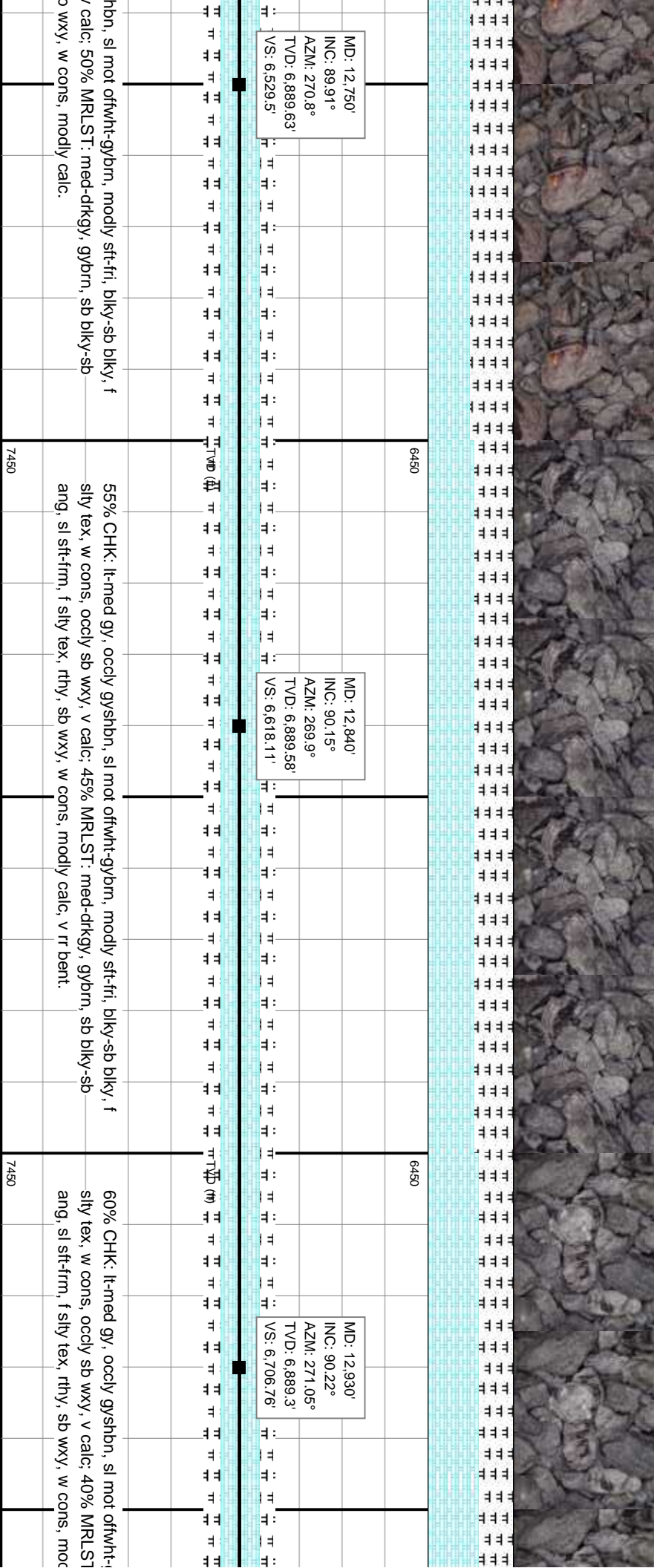
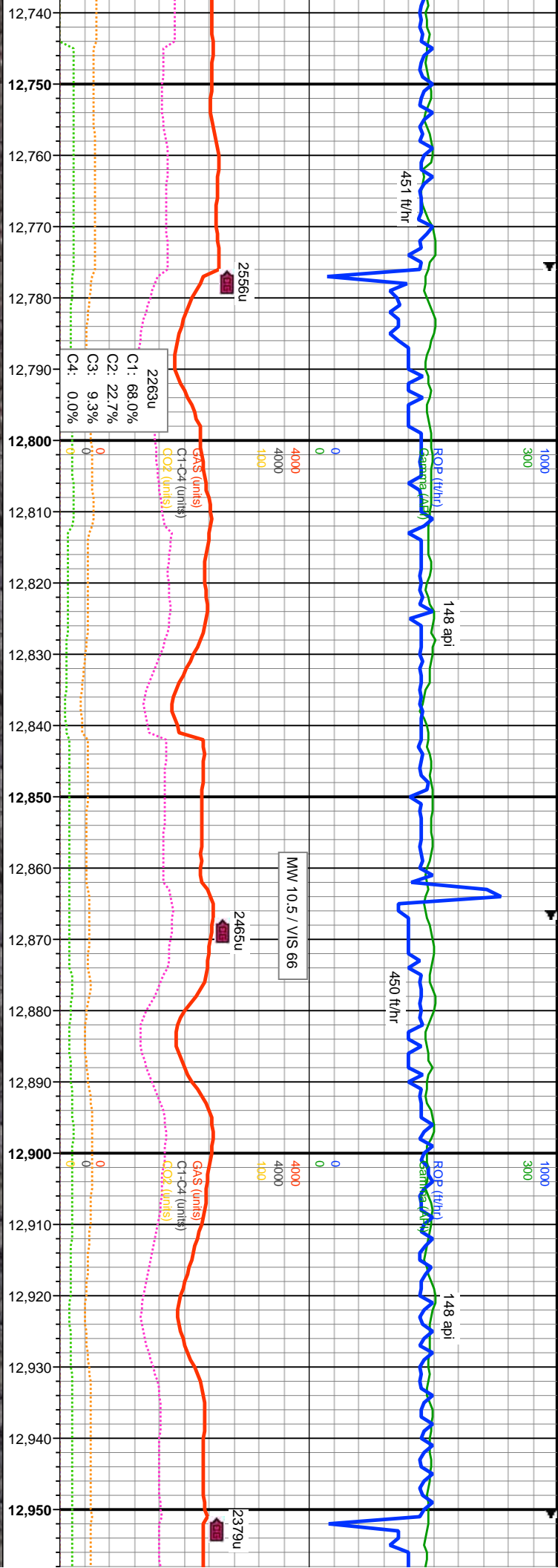




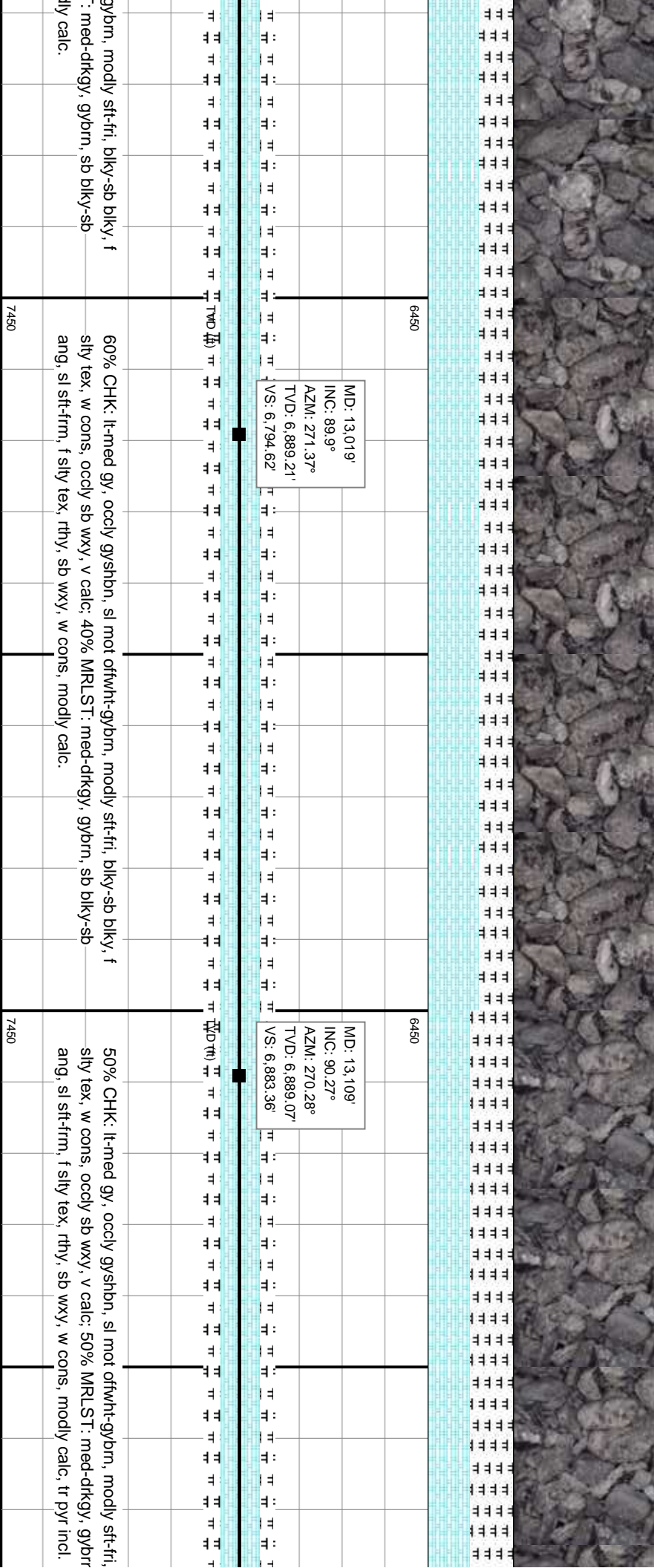
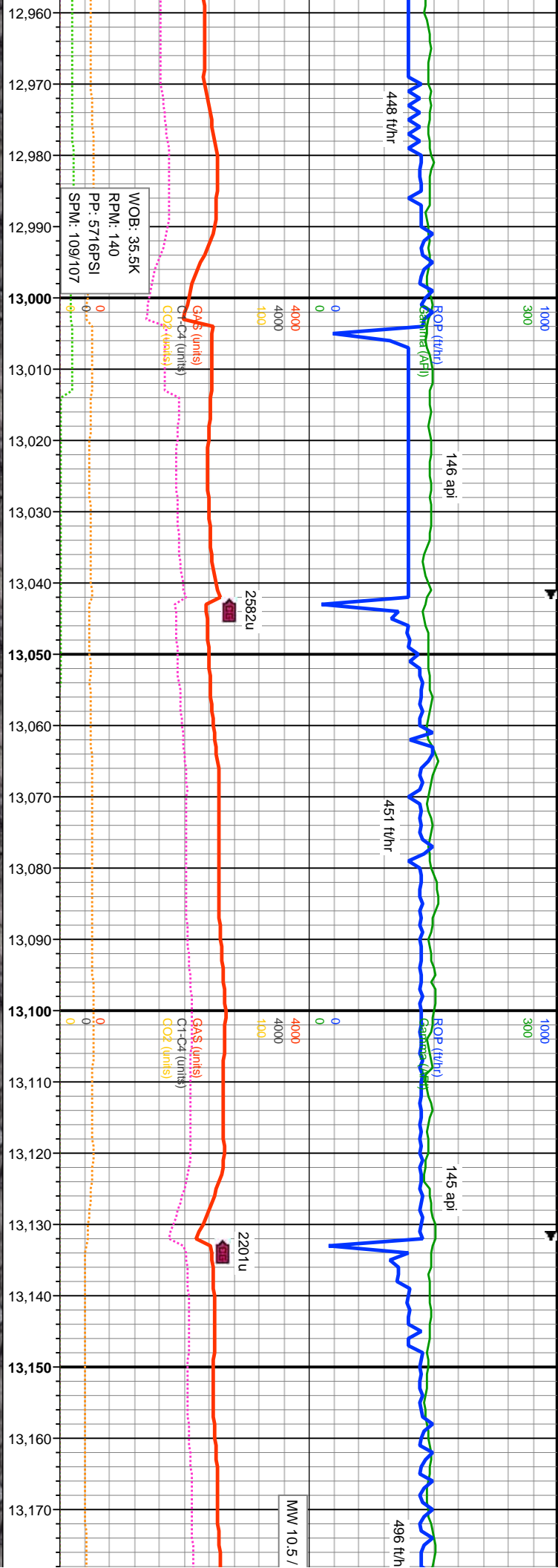


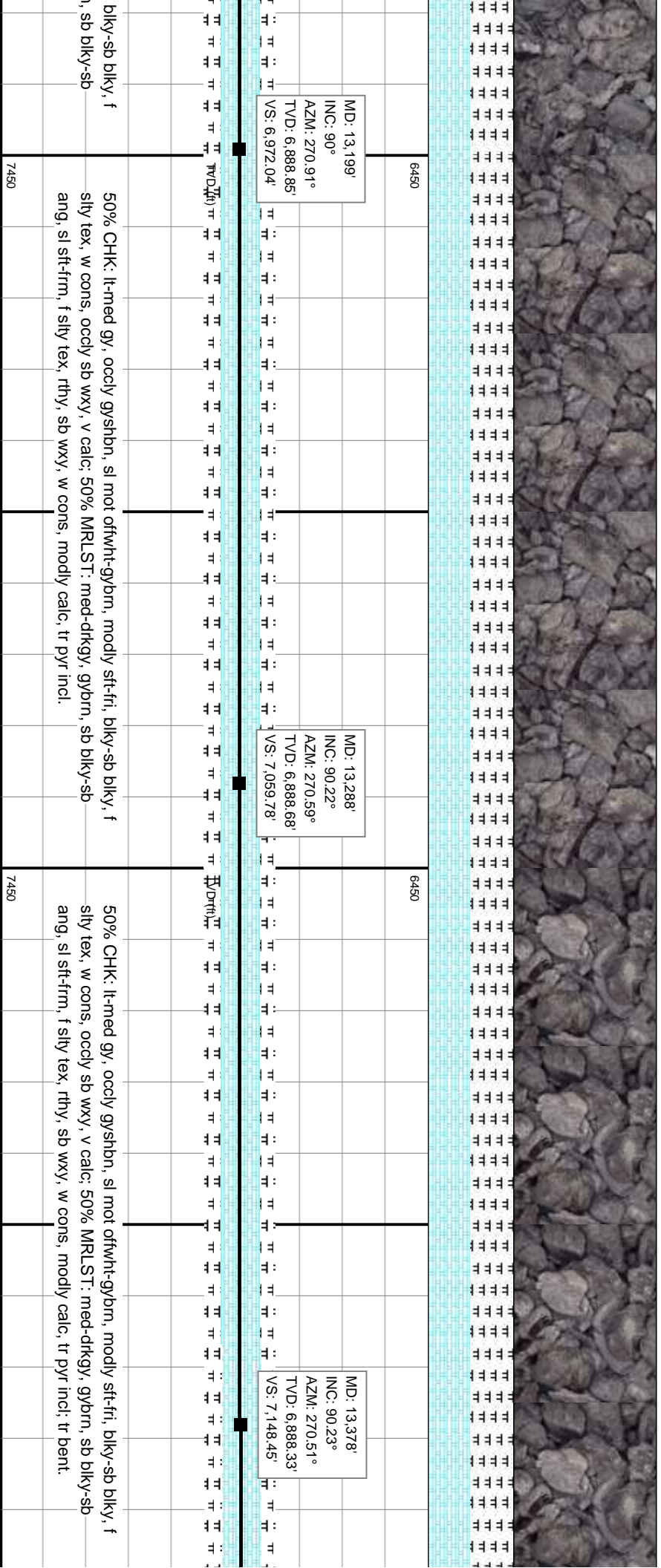
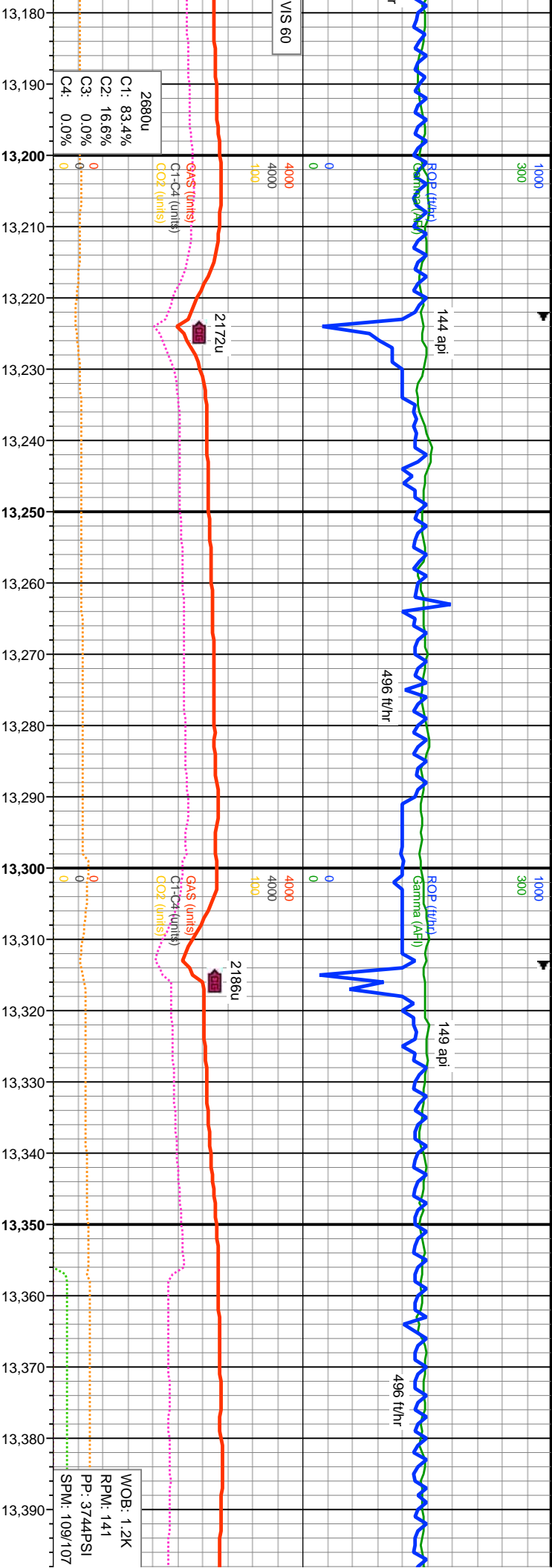




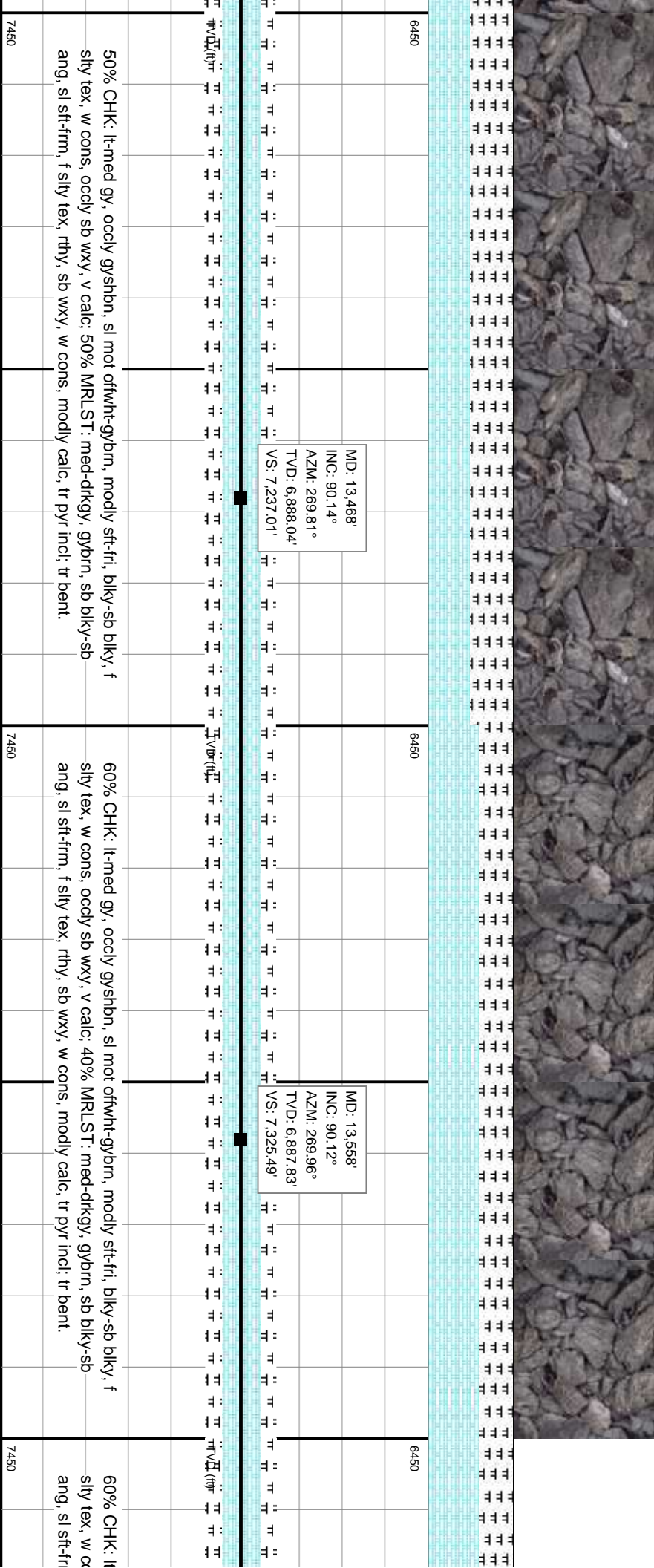
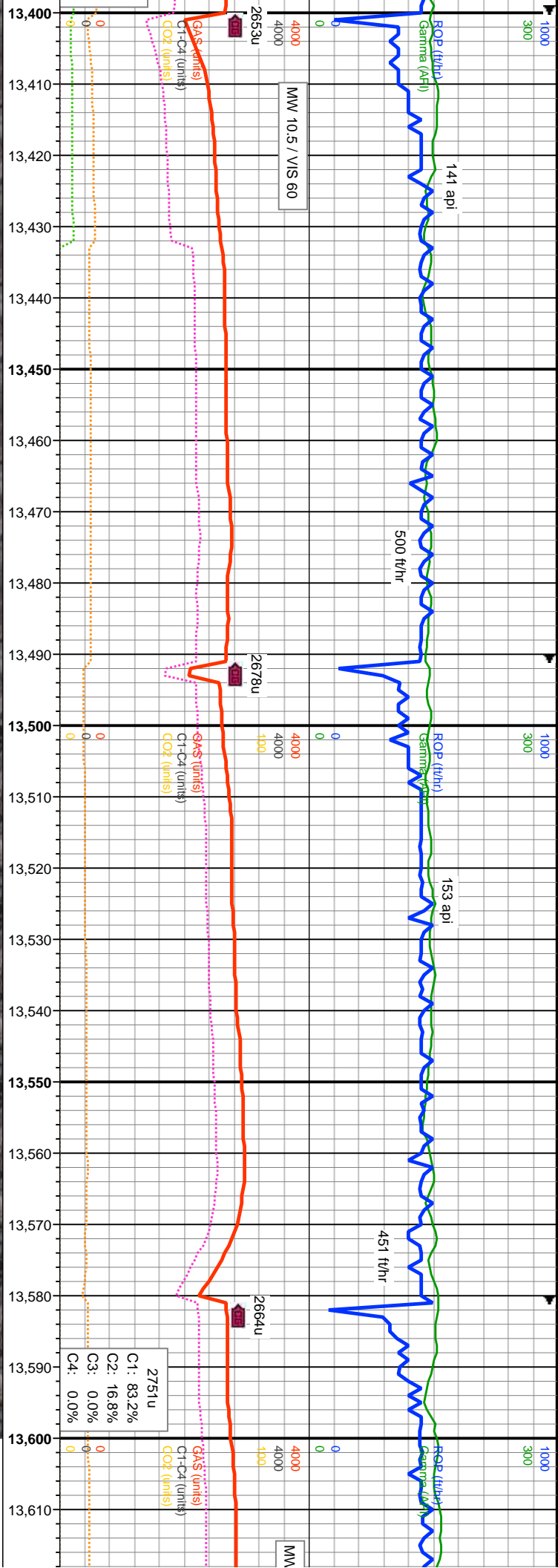




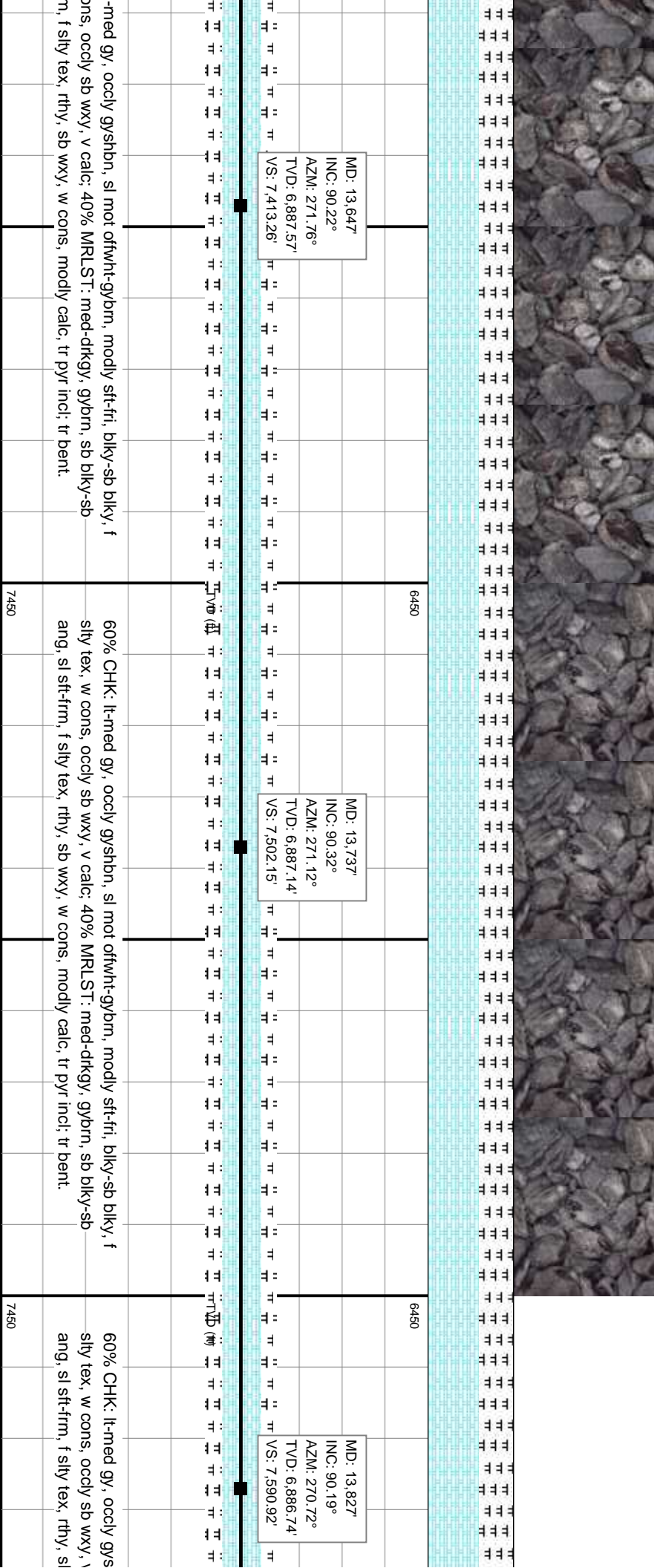
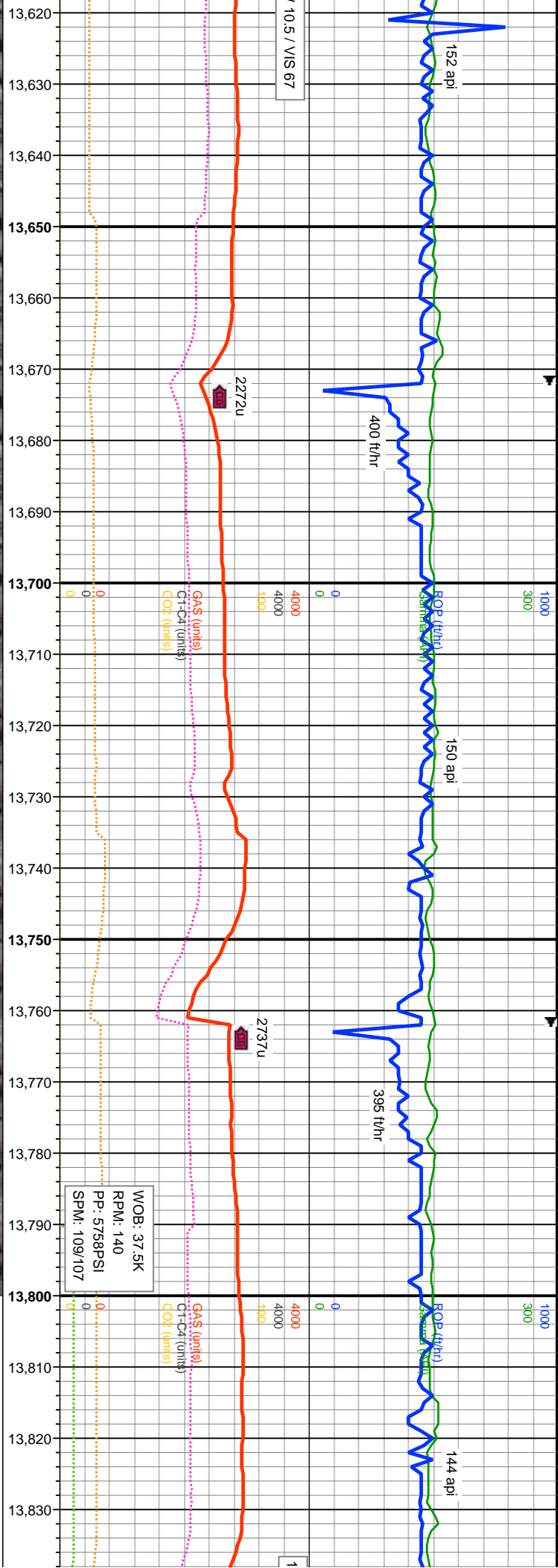


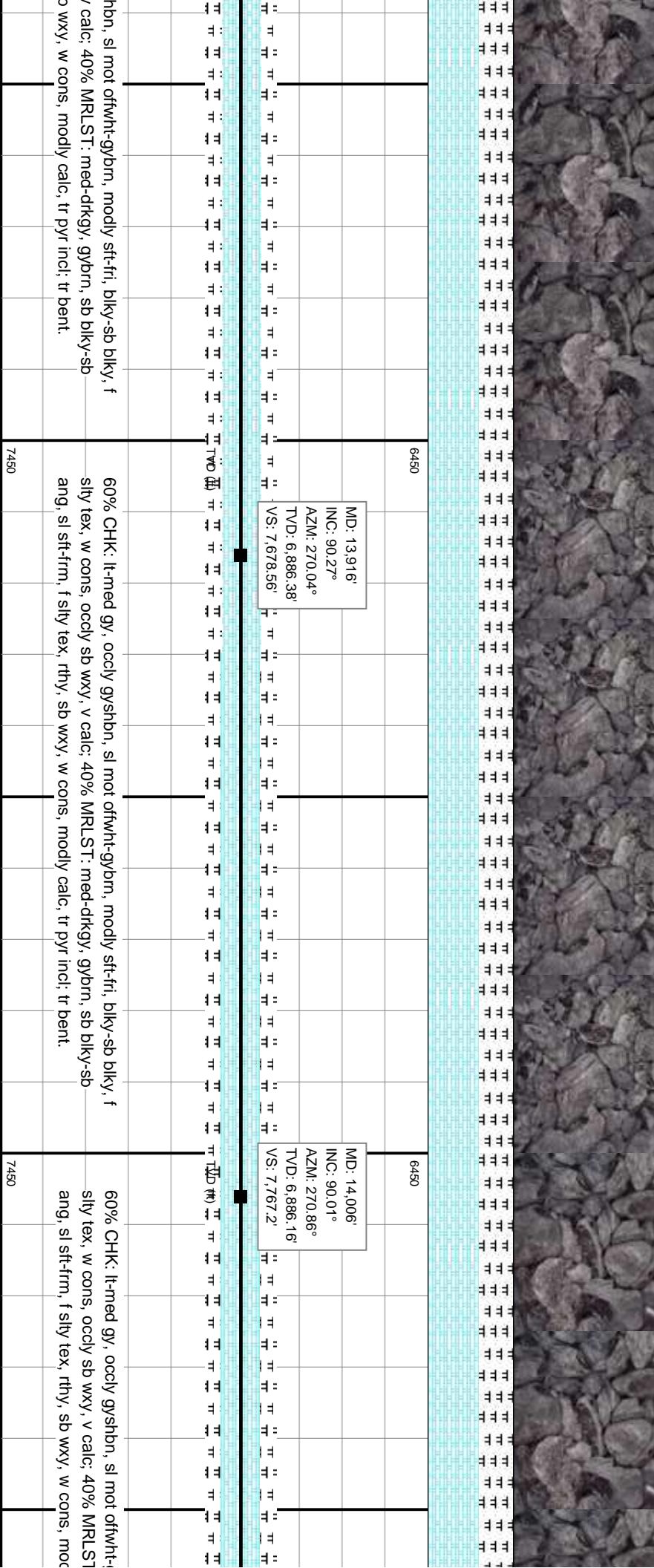
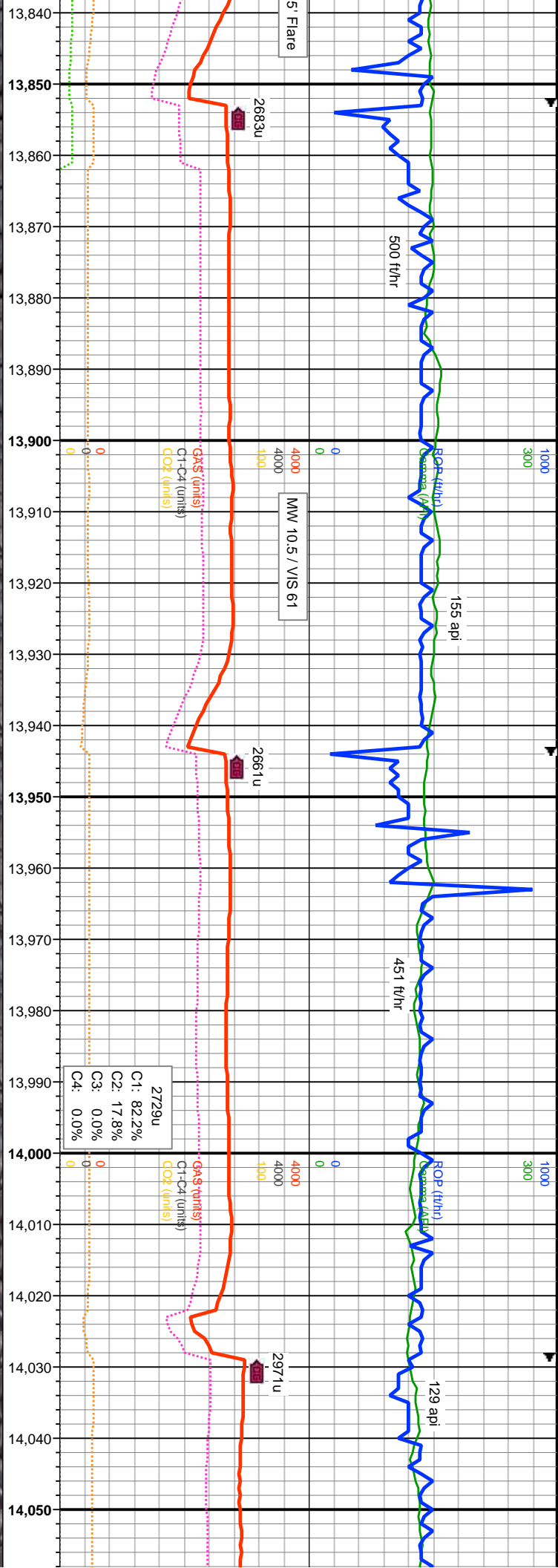




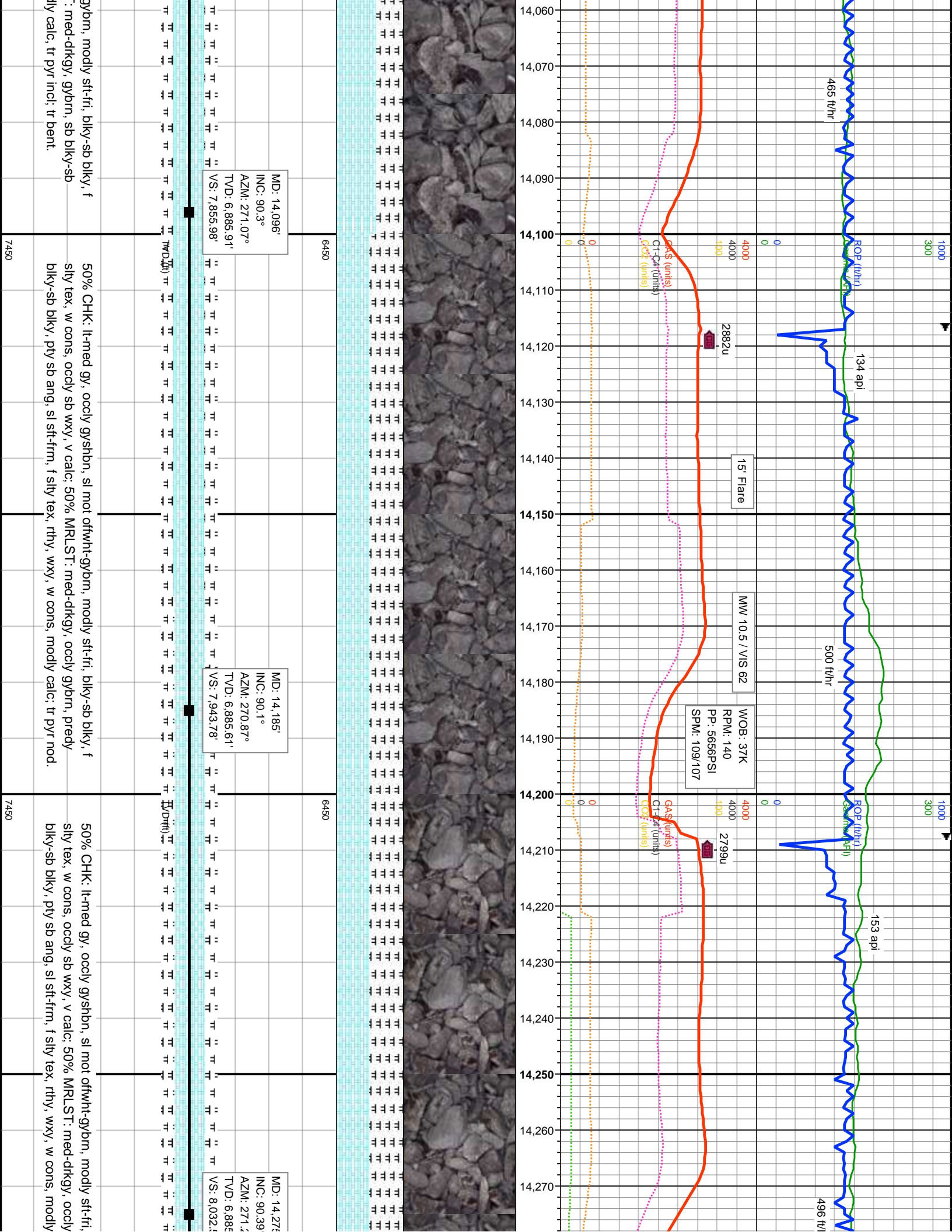




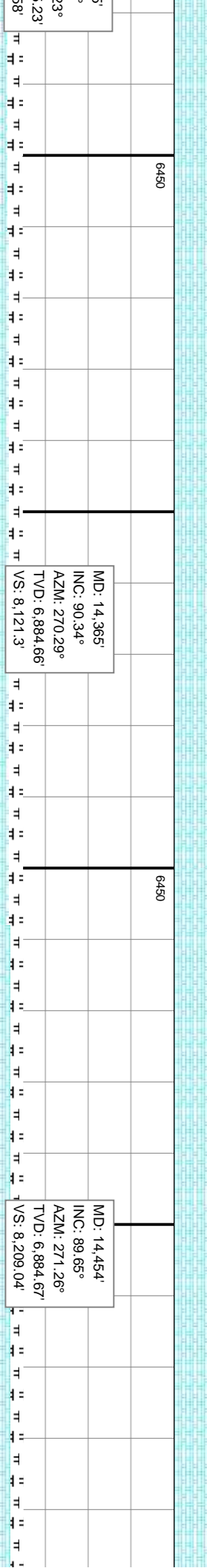
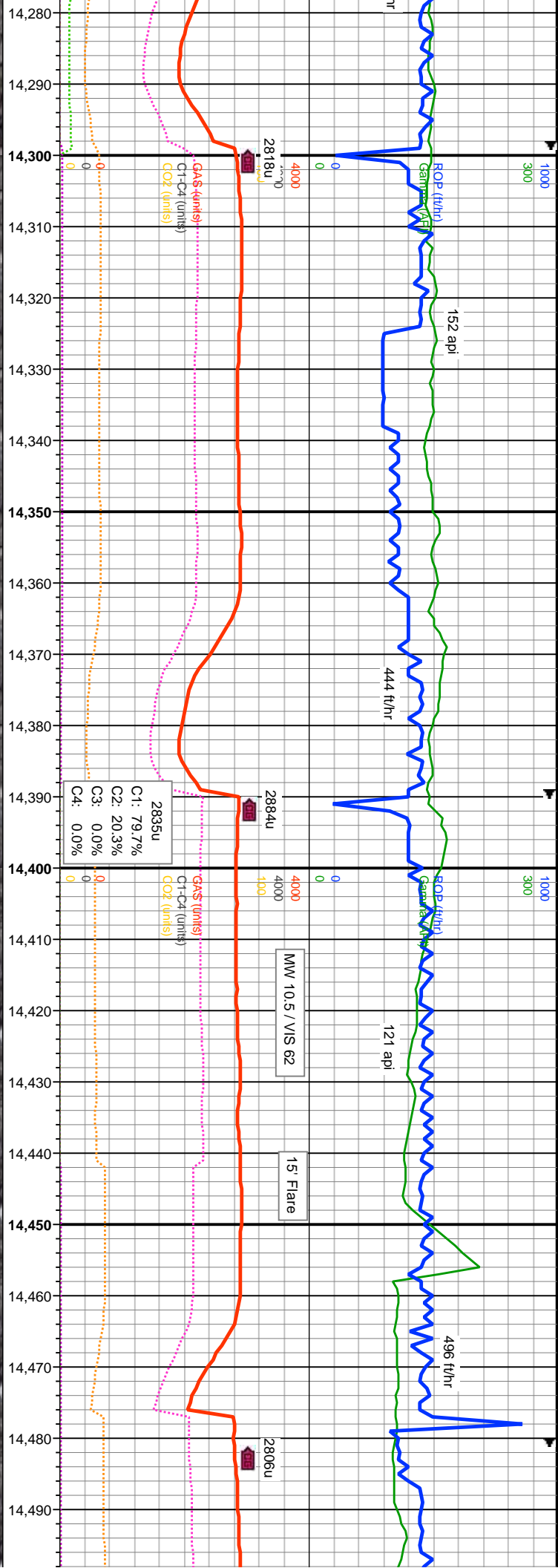




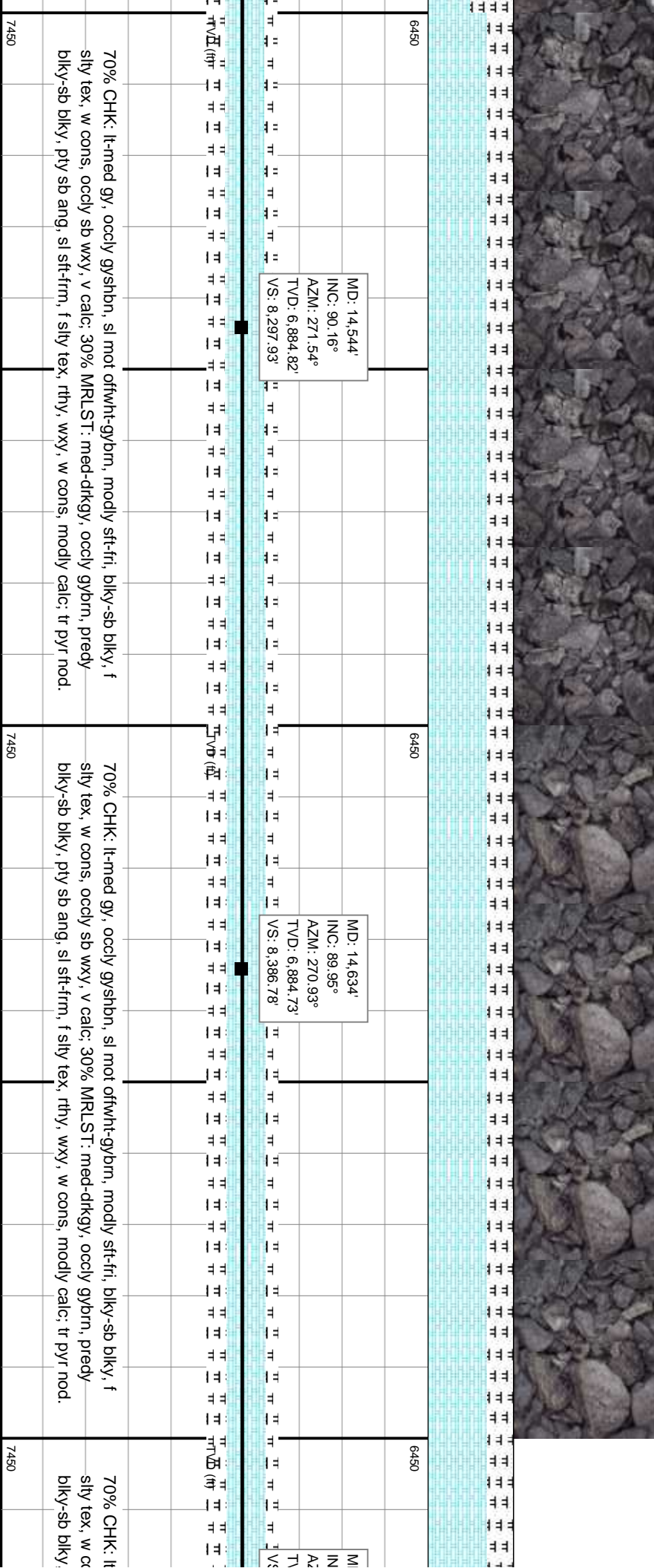
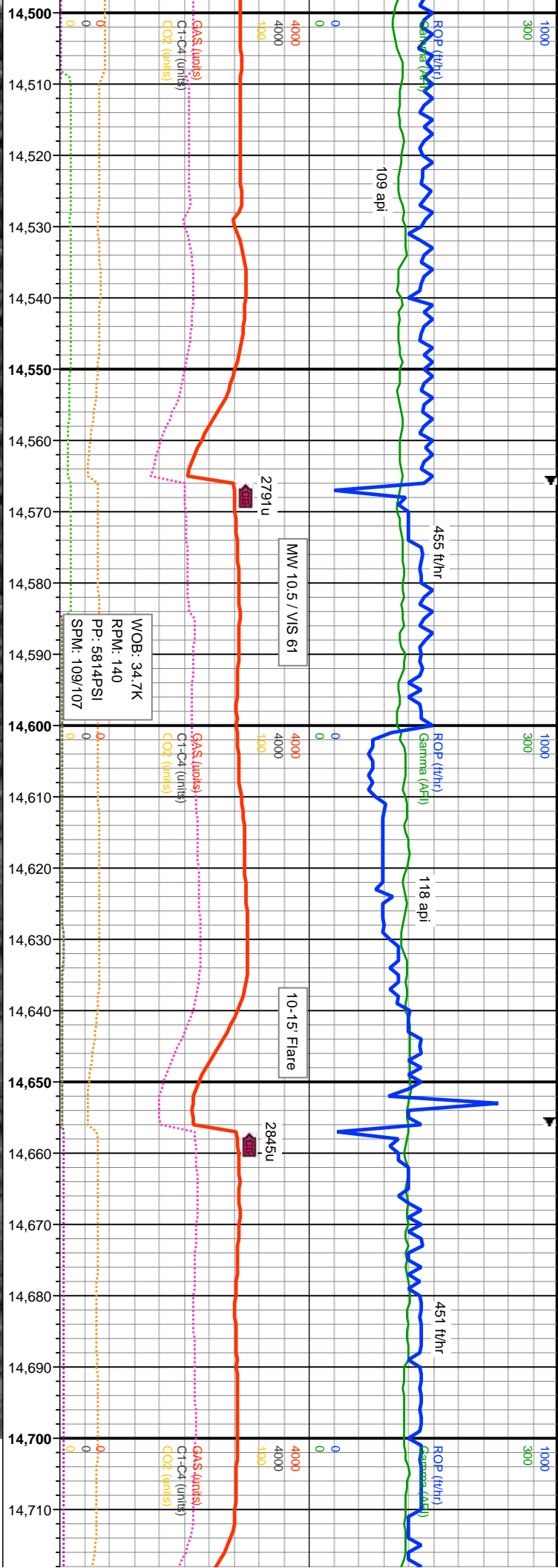




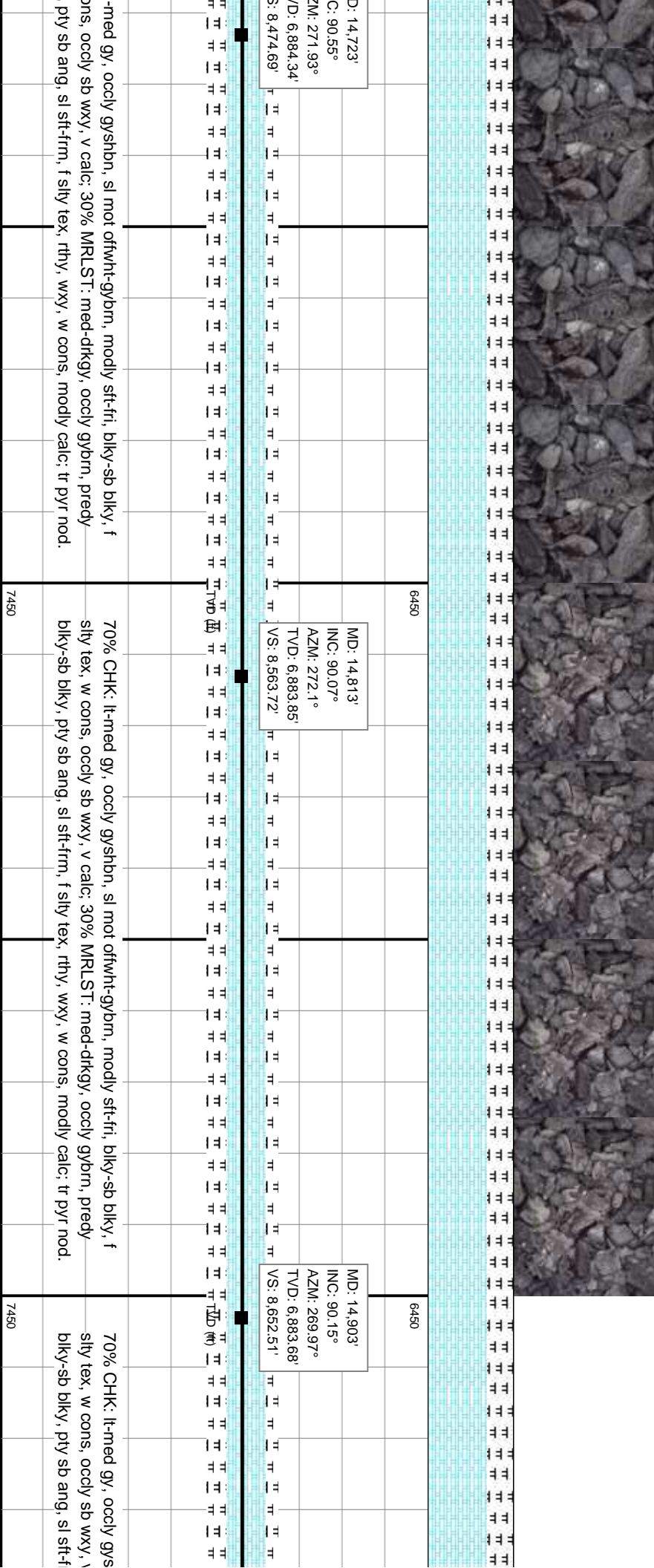
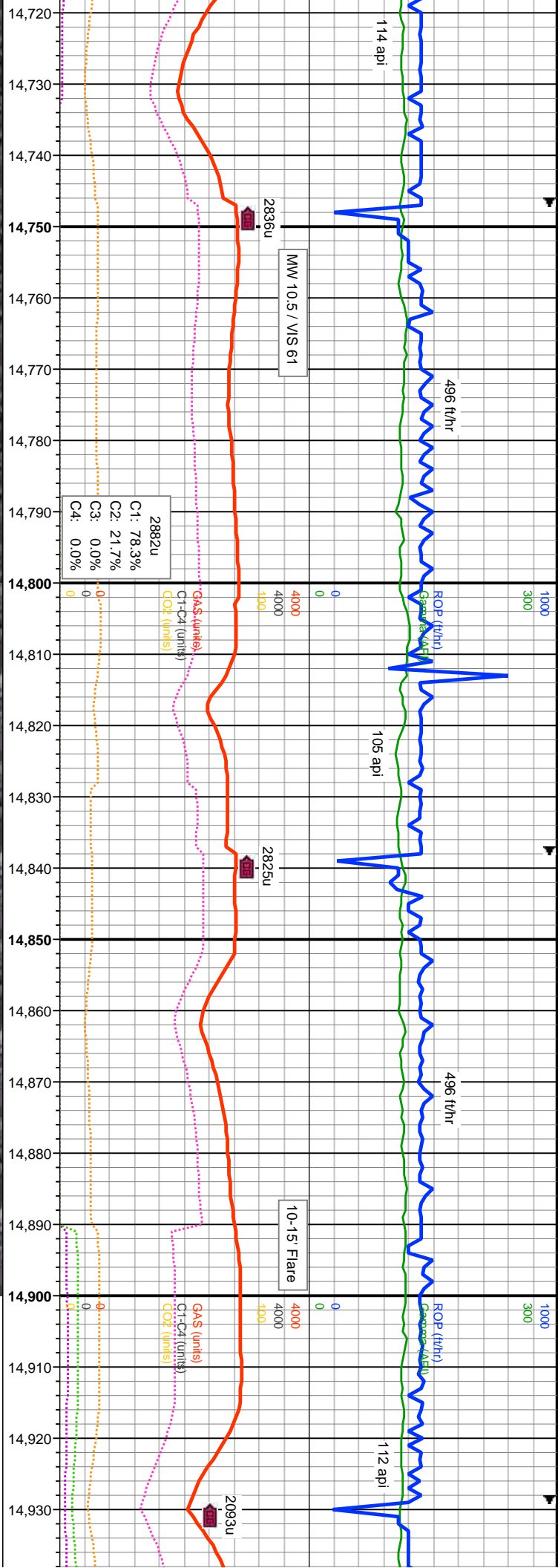




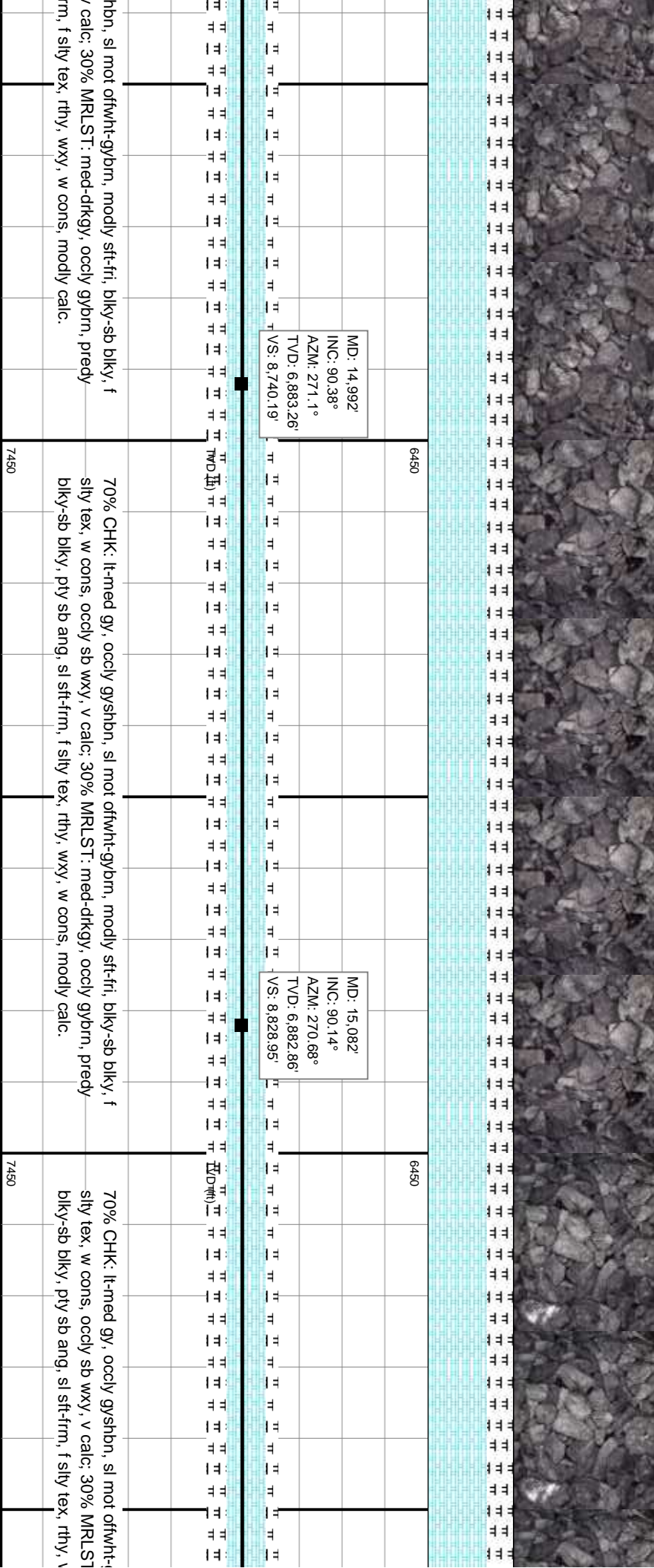
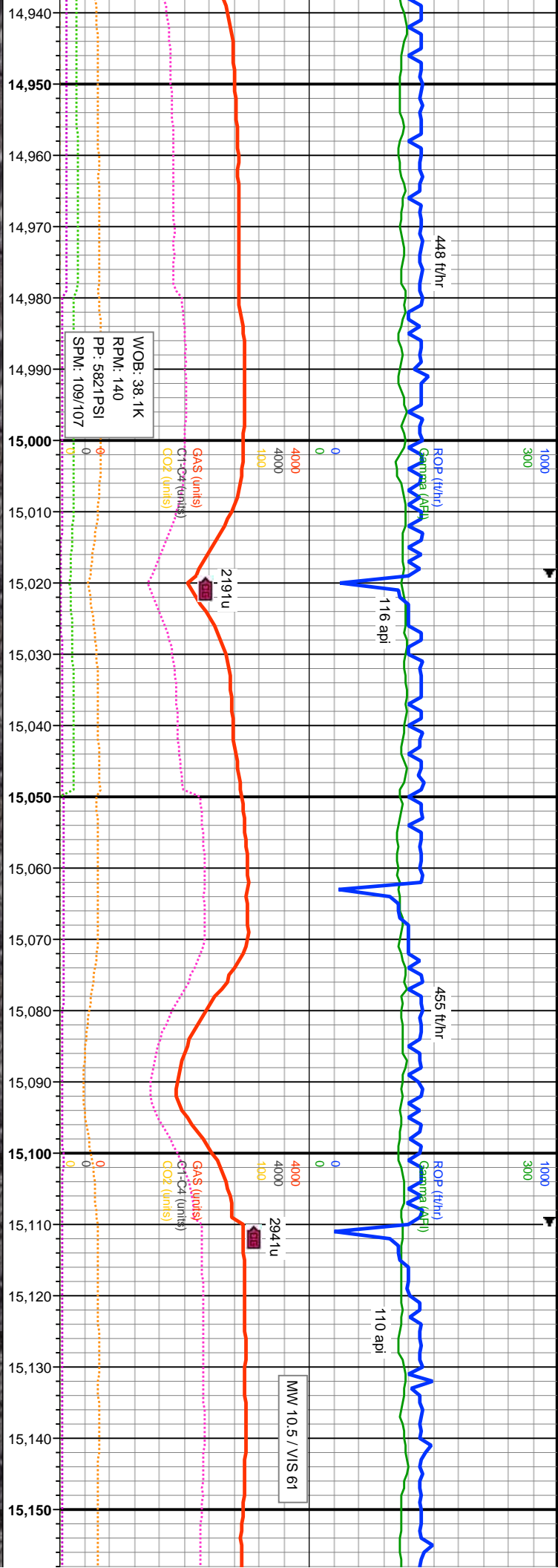
5'	5'	5'
33°	33°	33°
VS: 8.121.3'	VS: 8.121.3'	VS: 8.121.3'
MD: 14.365' INC: 90.34° AZM: 270.29° TVD: 6,884.66'	MD: 14.365' INC: 90.34° AZM: 270.29° TVD: 6,884.66'	MD: 14.365' INC: 90.34° AZM: 270.29° TVD: 6,884.66'
6450	6450	6450
7450	7450	7450
blky-sb blky, f gybrn, priedy calc; tr pyr nod.	50% CHK: lt-med gy, occly gyshbn, sl mot ofwht-gybrn, modly sft-fri, blky-sb blky, f sily tex, w cons, occly sb wxy, v calc; 50% MRLST: med-dfkg, occly gybrn, priedy blky-sb blky, pty sb ang, sl sft-fri, f sily tex, rthy, wxy, w cons, modly calc; tr pyr nod.	50% CHK: lt-med gy, occly gyshbn, sl mot ofwht-gybrn, modly sft-fri, blky-sb blky, f sily tex, w cons, occly sb wxy, v calc; 50% MRLST: med-dfkg, occly gybrn, priedy blky-sb blky, pty sb ang, sl sft-fri, f sily tex, rthy, wxy, w cons, modly calc; tr pyr nod.

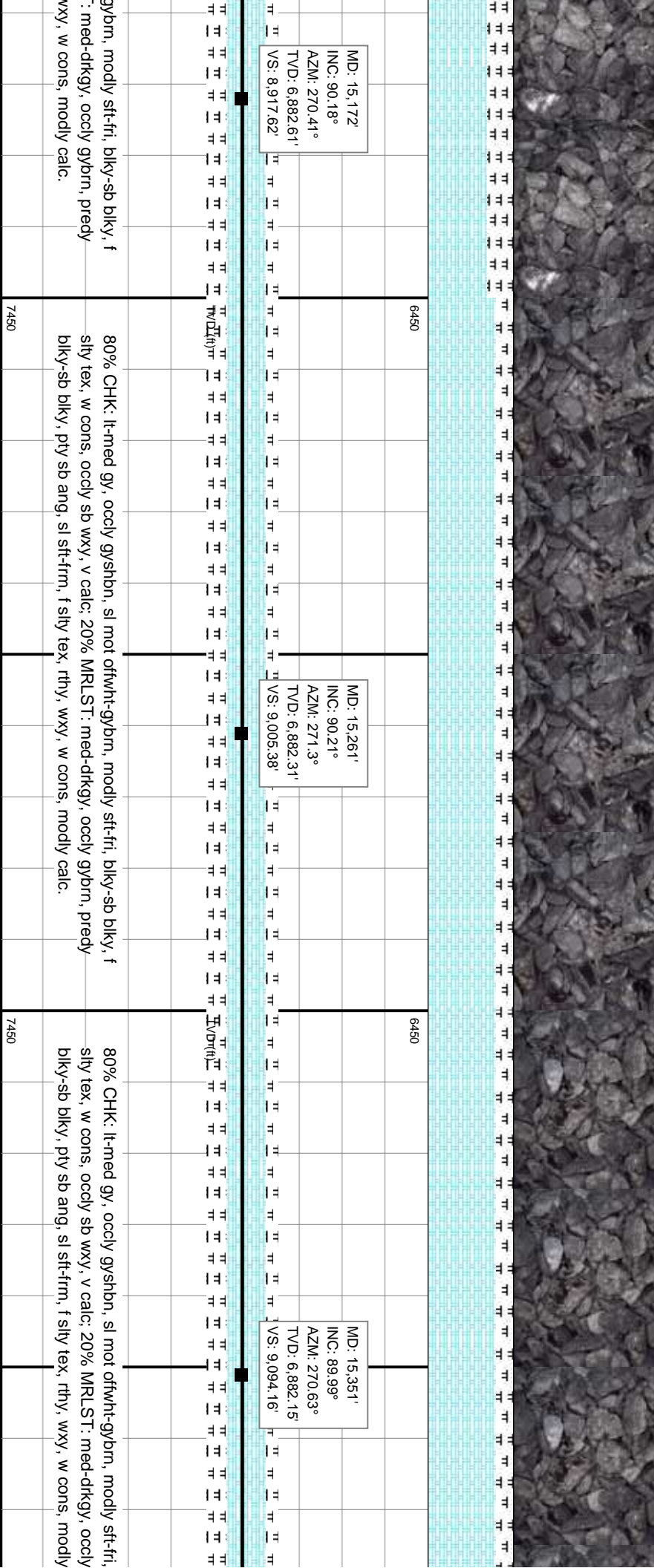
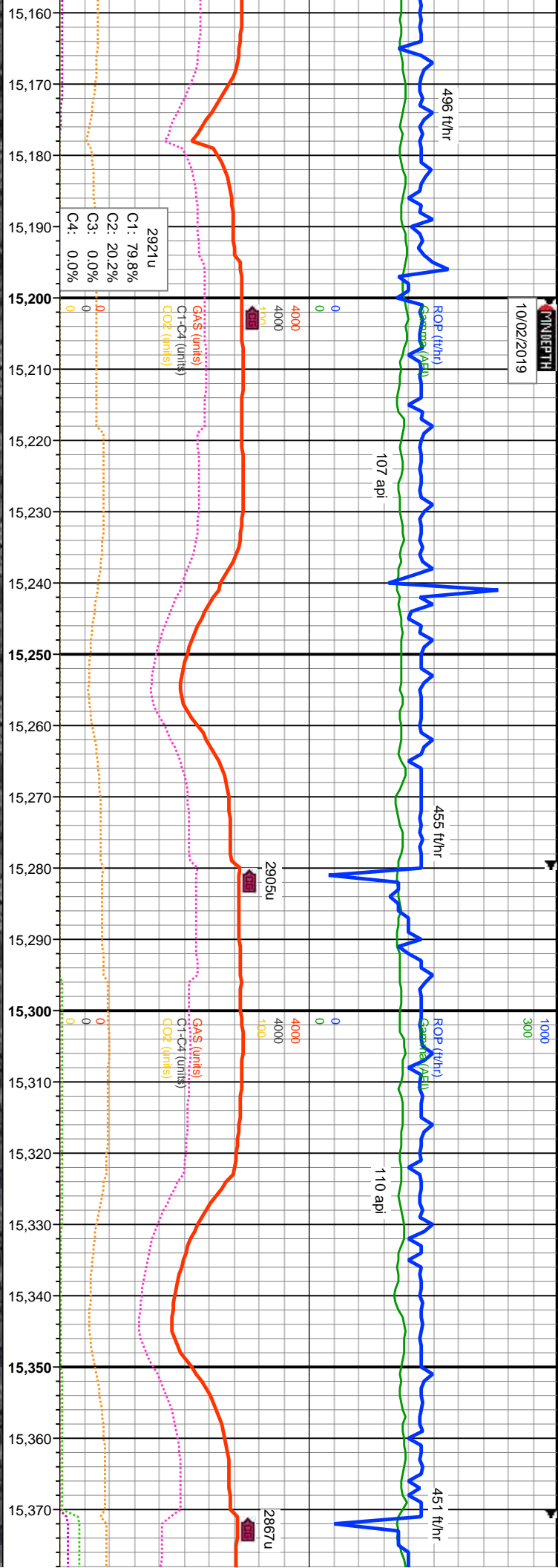




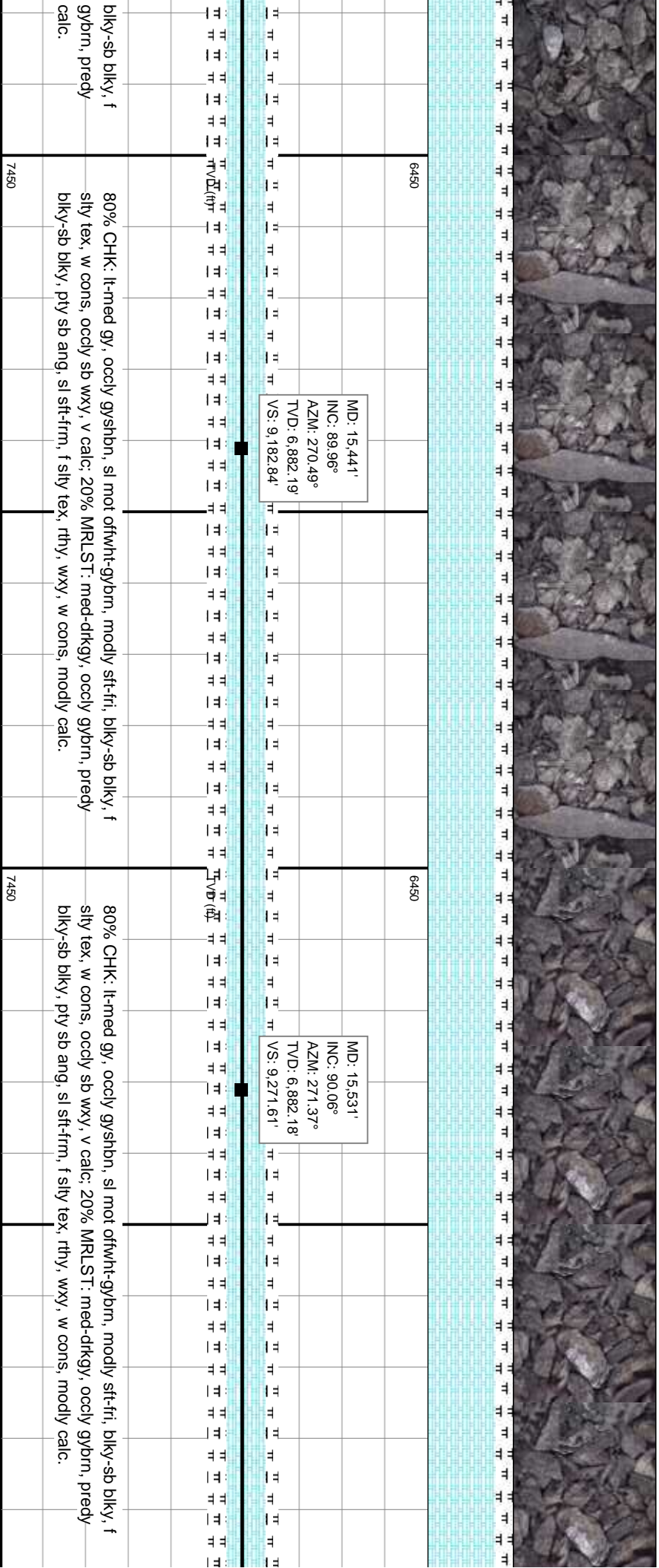
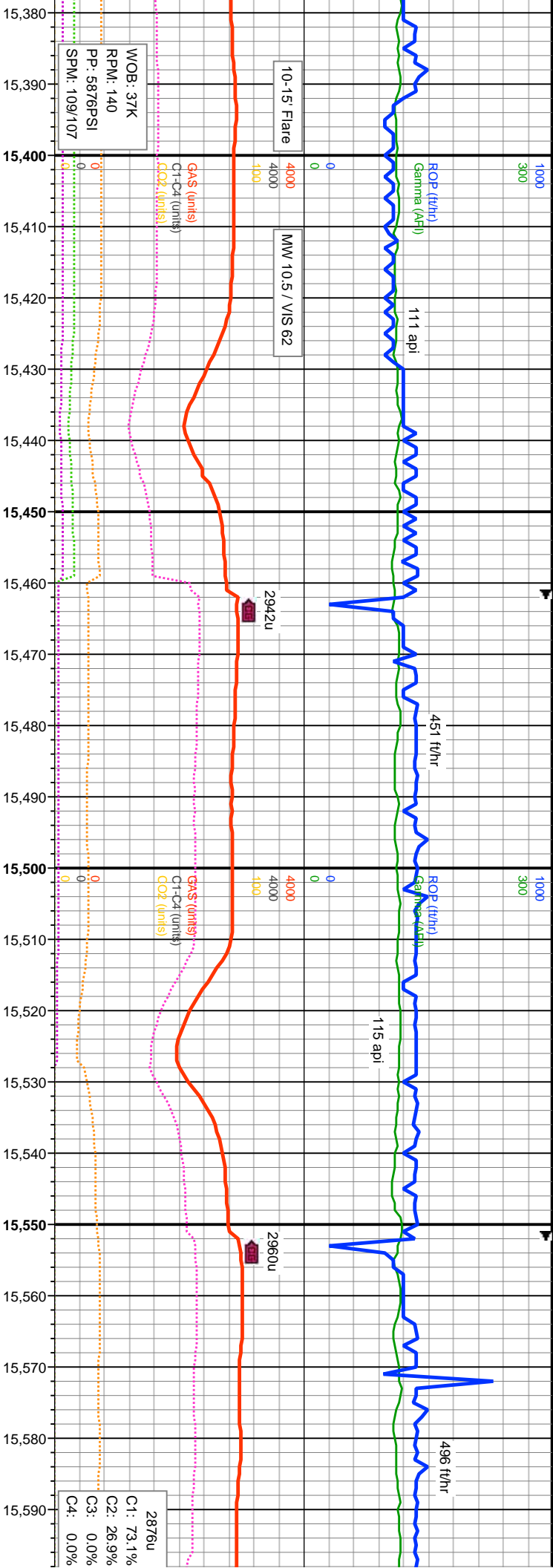


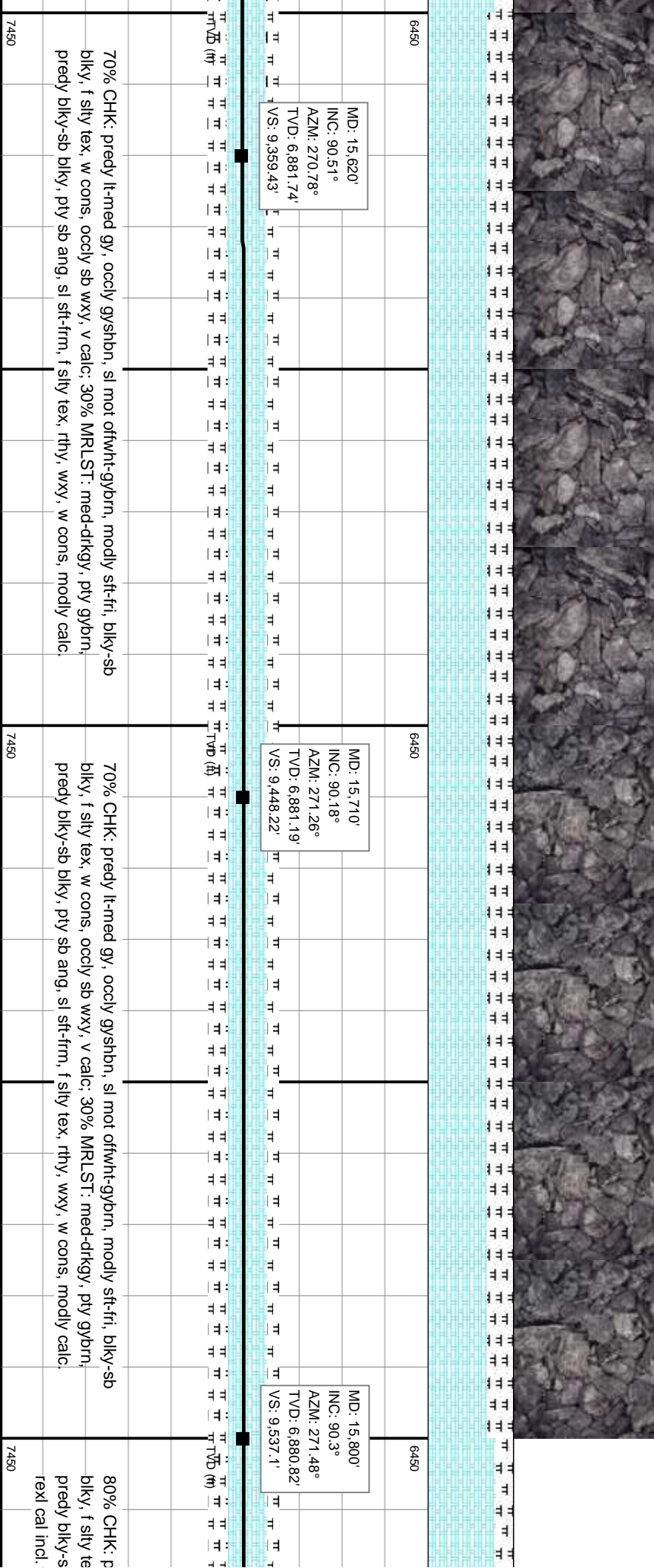
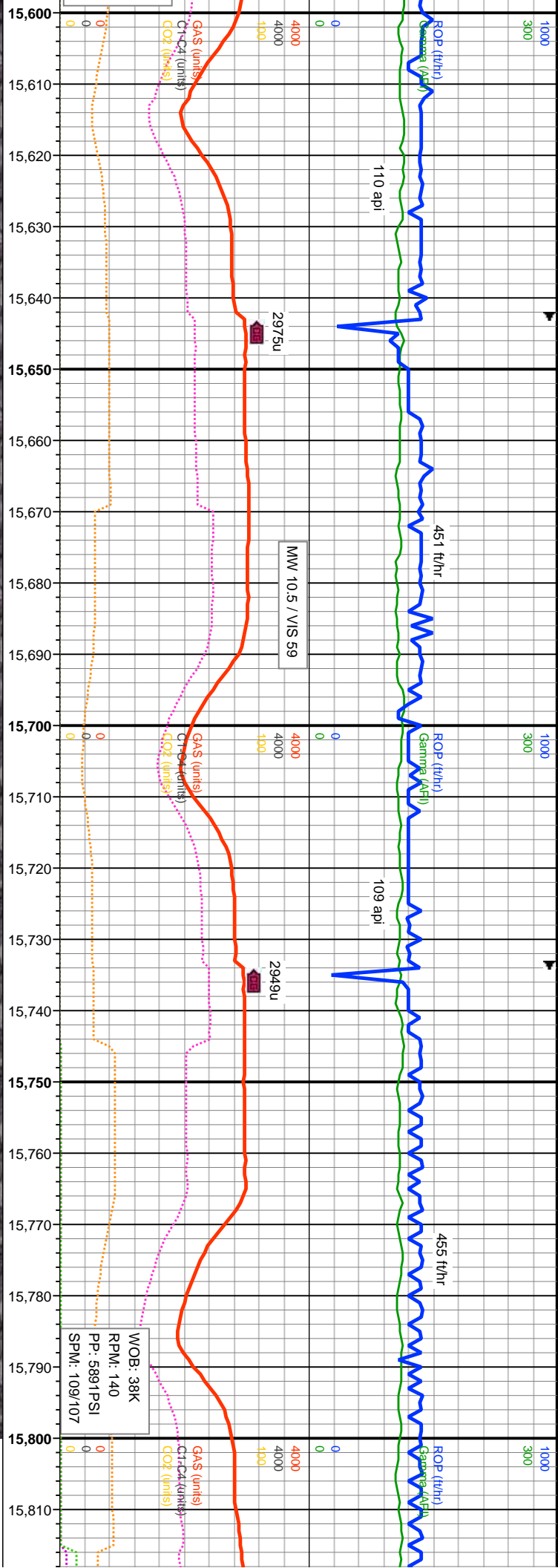




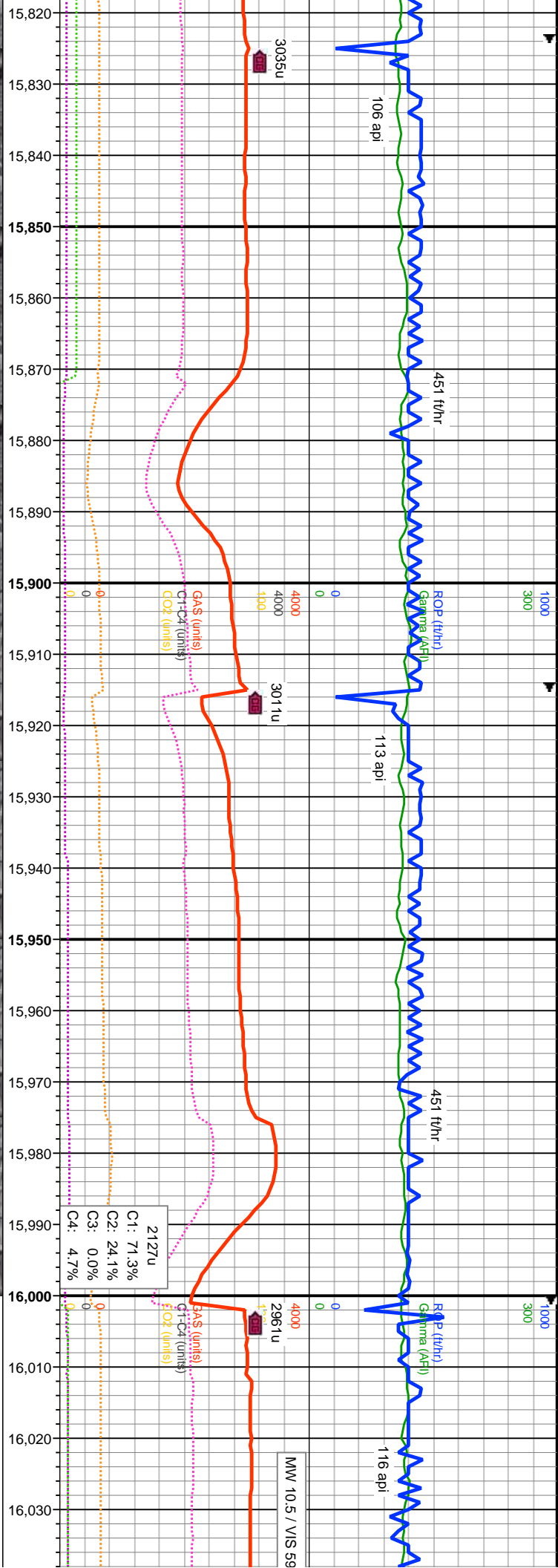






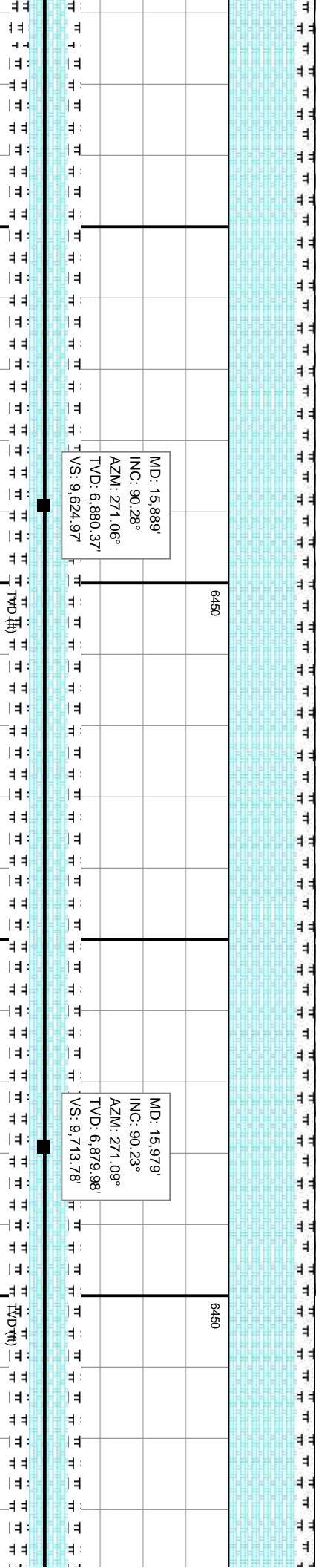






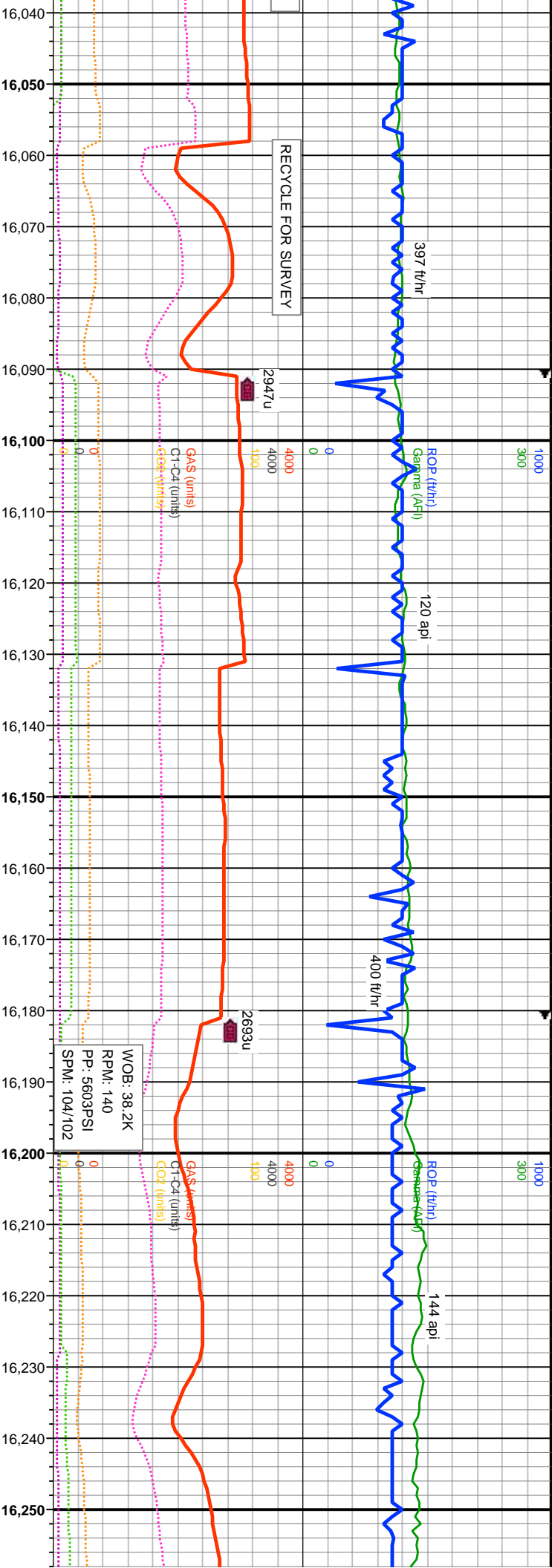
MD: 15,889'  
INC: 90.28°  
AZM: 271.06°  
TVD: 6,880.37'  
VS: 9,624.97'

MD: 15,979'  
INC: 90.23°  
AZM: 271.09°  
TVD: 6,879.98'  
VS: 9,713.78'



80% CHK: predy lt-med gy, oocly gysbhn, sl mot ofwht-gybrn, modly sft-fri, blyk-sb  
blyk, f silty tex, w cons, oocly sb wxy, v calc: 20% MRLST: med-drkgy, pty gybrn,  
predy blyk-sb blyk, pty sb ang, sl sft-firm, f silty tex, rthy, wxy, w cons, modly calc; tr  
rexl cal incl.

80% CHK: predy lt-med gy, oocly gysbhn, sl mot ofwht-gybrn, modly sft-fri, blyk-sb  
blyk, f silty tex, w cons, oocly sb wxy, v calc: 20% MRLST: med-drkgy, pty gybrn,  
predy blyk-sb blyk, pty sb ang, sl sft-firm, f silty tex, rthy, wxy, w cons, modly calc; tr  
rexl cal incl.



MD: 16,069'  
INC: 90.39°  
AZM: 271.46°  
TVD: 6,879.5'  
VS: 9,802.63'

MD: 16,159'  
INC: 90.37°  
AZM: 270.9°  
TVD: 6,878.9'  
VS: 9,891.47'

MD: 16,248'  
INC: 90.09°  
AZM: 268.52°  
TVD: 6,878.54'  
VS: 9,978.91'

70% CHK: predy lt-med gy, oocly gyshbn, modly st-fri, bly-sb bly, f silty tex, w cons, oocly sb wxy, v calc: 30% MRLST: med-drkgy, pty gybrn, predy bly-sb bly, pty sb ang, sl st-firm, f silty tex, rthy, wxy, w cons, modly calc; tr rexl cal incl.	6450	7450
70% CHK: predy lt-med gy, oocly gyshbn, modly st-fri, bly-sb bly, f silty tex, w cons, oocly sb wxy, v calc: 20% MRLST: med-drkgy, pty gybrn, predy bly-sb bly, pty sb ang, sl st-firm, f silty tex, rthy, wxy, w cons, modly calc; tr rexl cal incl.	6450	7450



