



Scale: 5.26" / 100'  
Measured Depth Log

Well Name    Badding 13C-2HZ

Location    NWSW SECTION 35, T2N, R66W

State    COLORADO

Country    USA

API Number    0512338288

Region    DJ BASIN

Spud Date    12/16/2013

Surface Coordinates    2411' FSL x 881' FWL

Bottom Hole Coordinates    1' FSL x 780' FWL  
SECTION 2, T1N, R66W

Ground Elevation    5102'

Logged Interval    7000'    To    15383'

Formation    CODELL

Type of Drilling Fluid    FW LSND

County    WELD

Rig Number    ENSIGN 145

AFE #    2087297

Field    WATTENBERG

Drilling Completed    12/25/2013

K.B. Elevation    5115'

Total Depth    15383'

Company    Anadarko

Address    1099 18th STR  
DENVER, CO 8

Name    RHEAD CANING

Company    ANADARKO PE

Address    1099 18th STR  
DENVER, CO 8

COLUMBINE LOGGING, INC

WELL-SITE GEOLOGISTS

# Operator

3ET.  
0202

# Geologist

DN - Geosteerer

ETROLEUM.

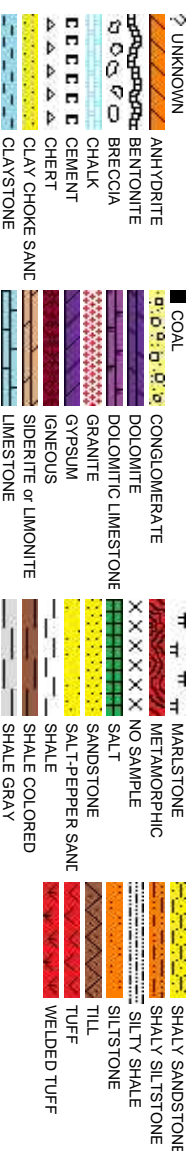
3ET.  
0202

## Other

2385 S. LIPAN STREET.  
DENVER, CO 80223

JOEY LUCE  
CAMERON NAKOS  
WESTON MARTIN (trainee)

## Rock Types



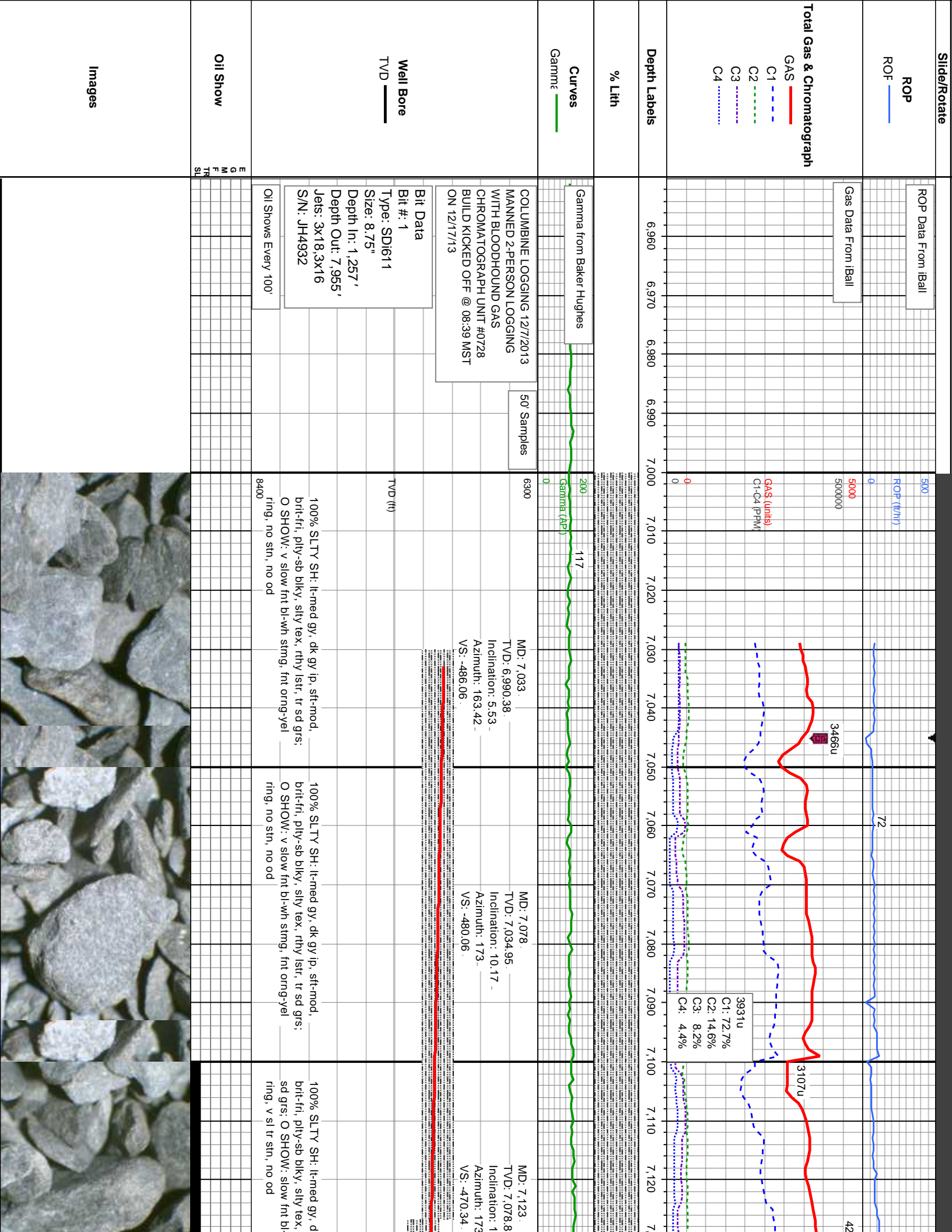
## Accessories

## Fossils

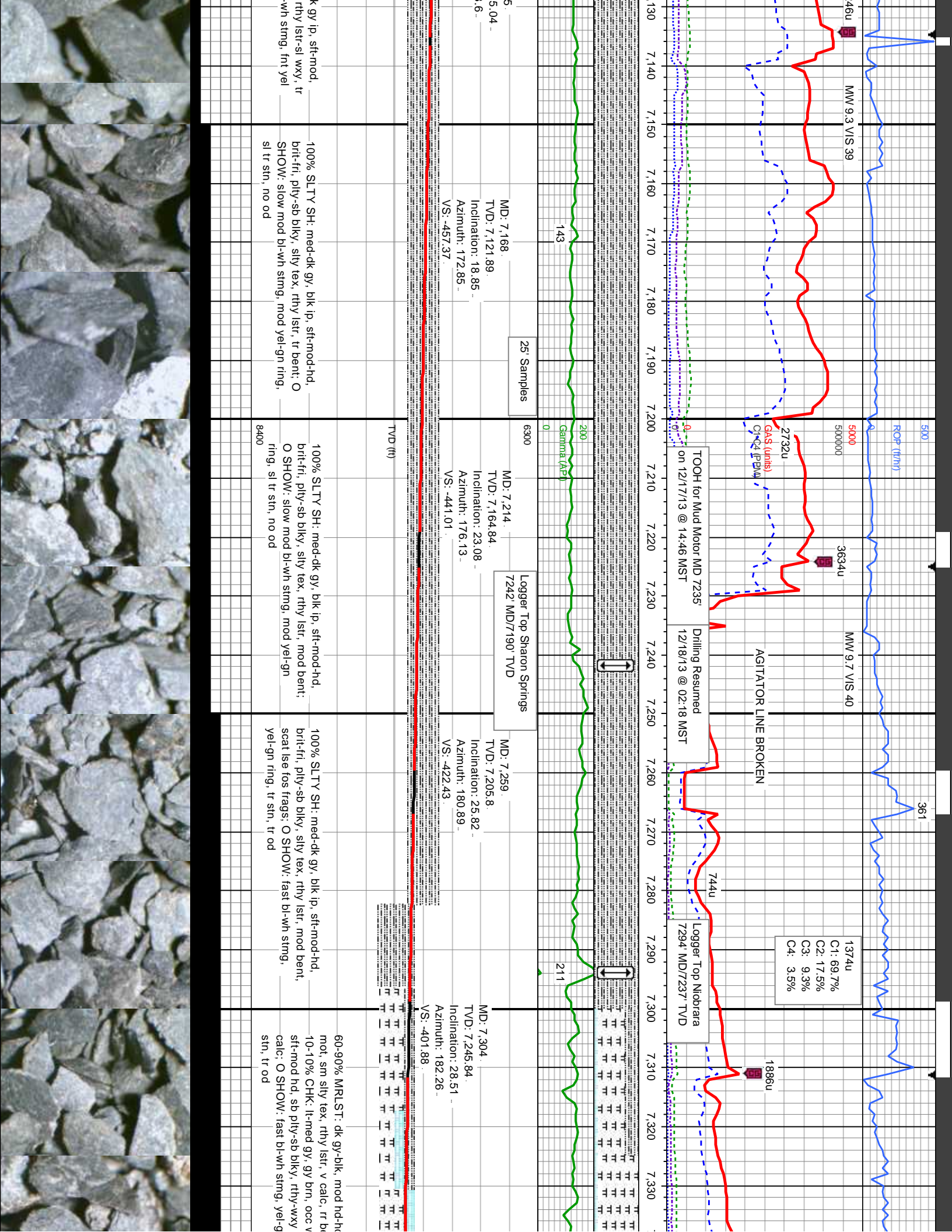
- [illegible]

**Stringer**

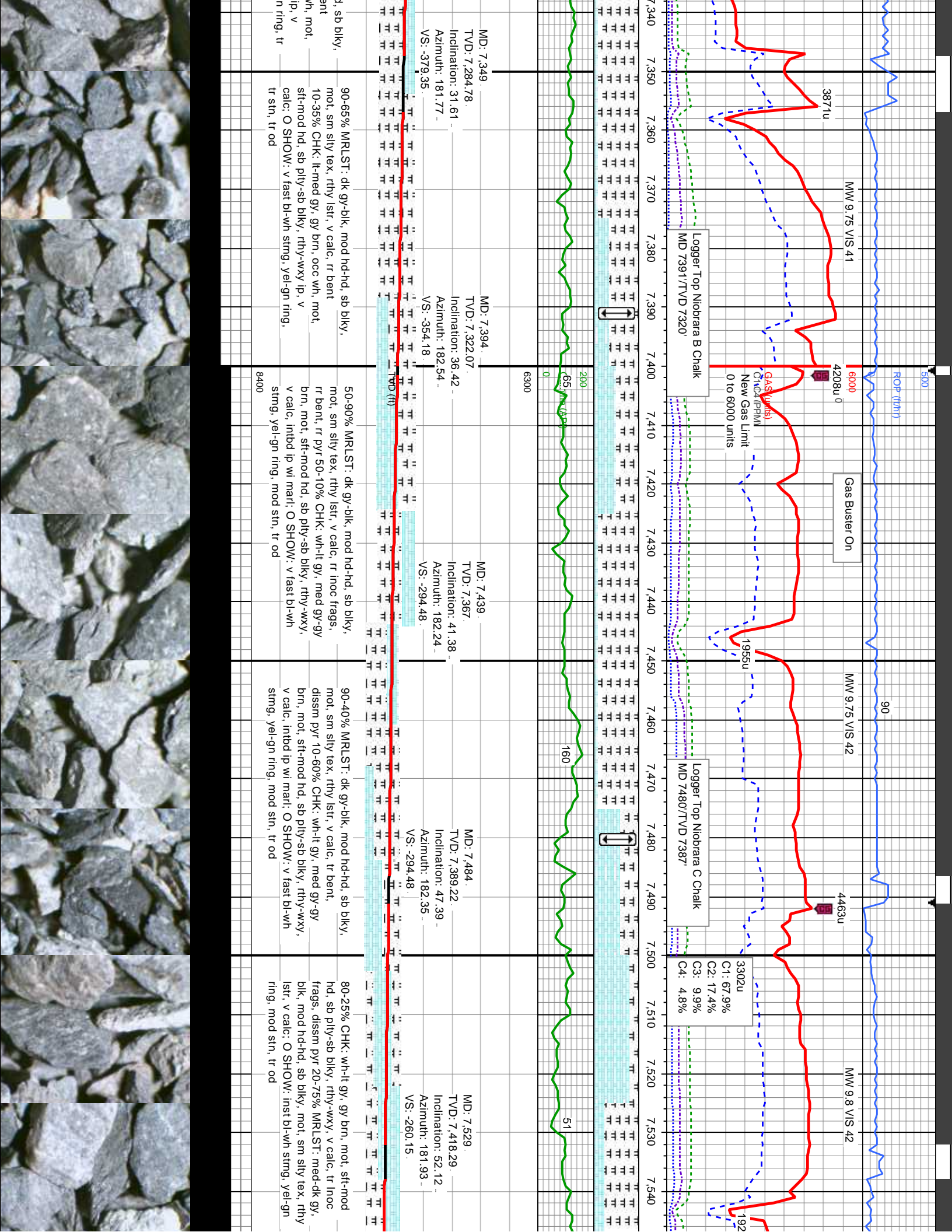




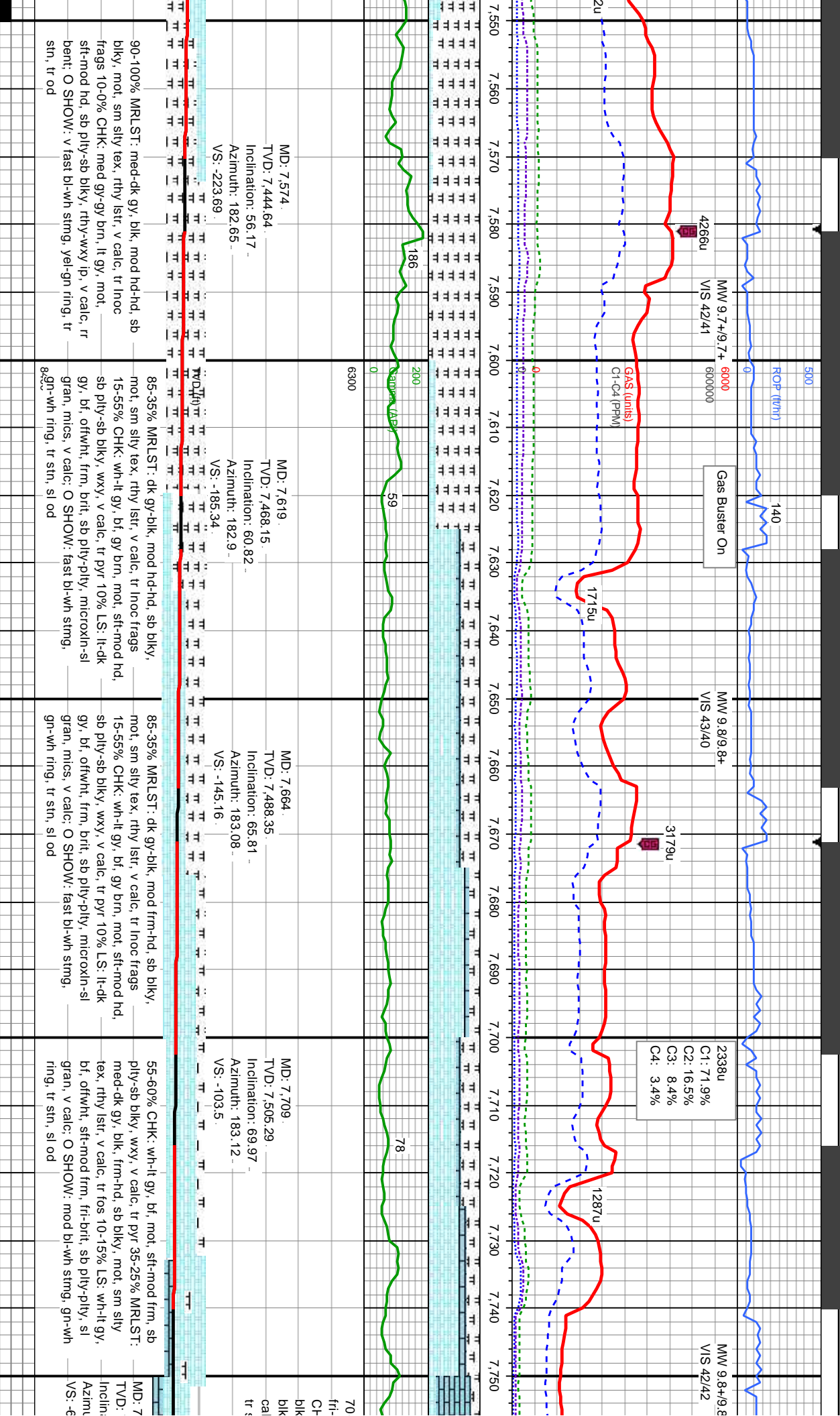




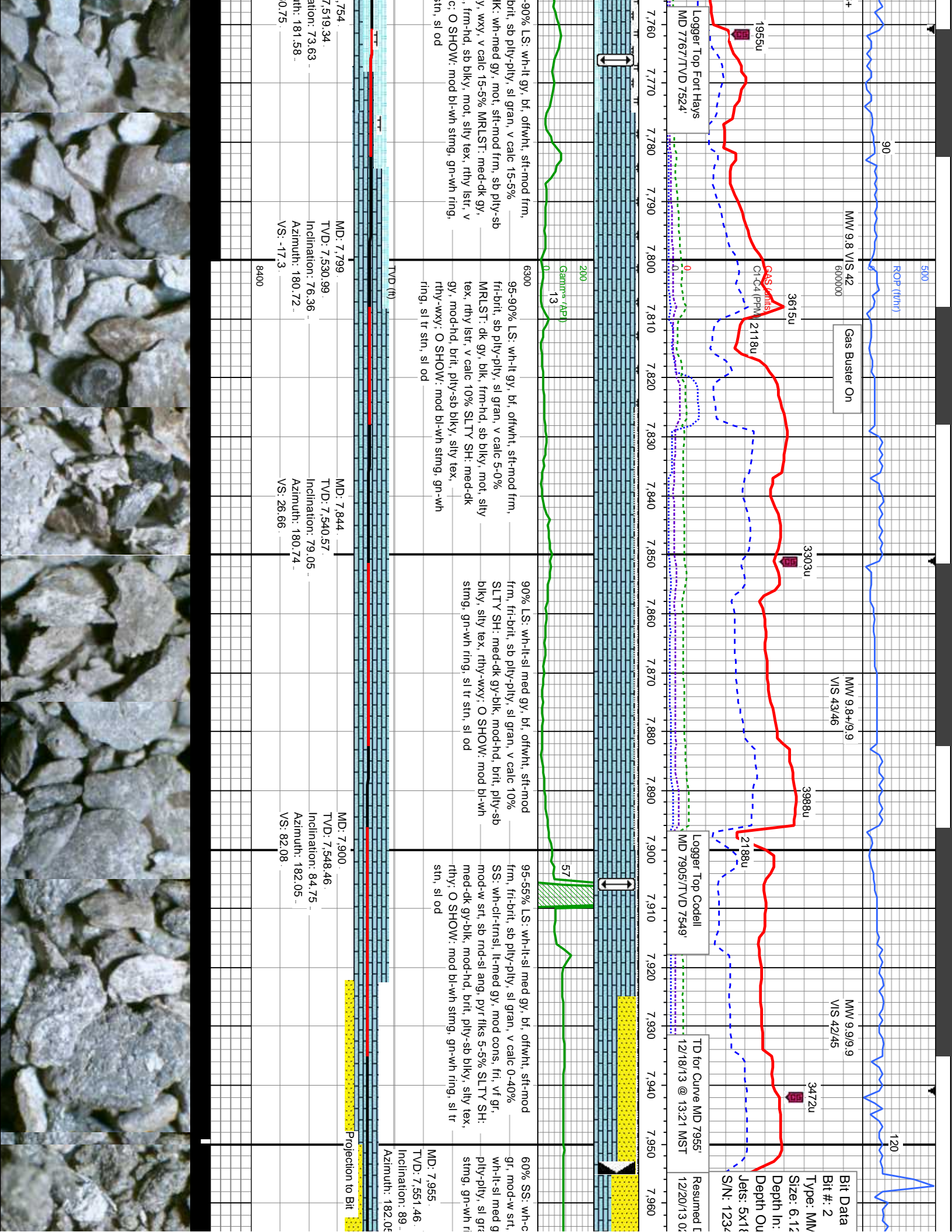




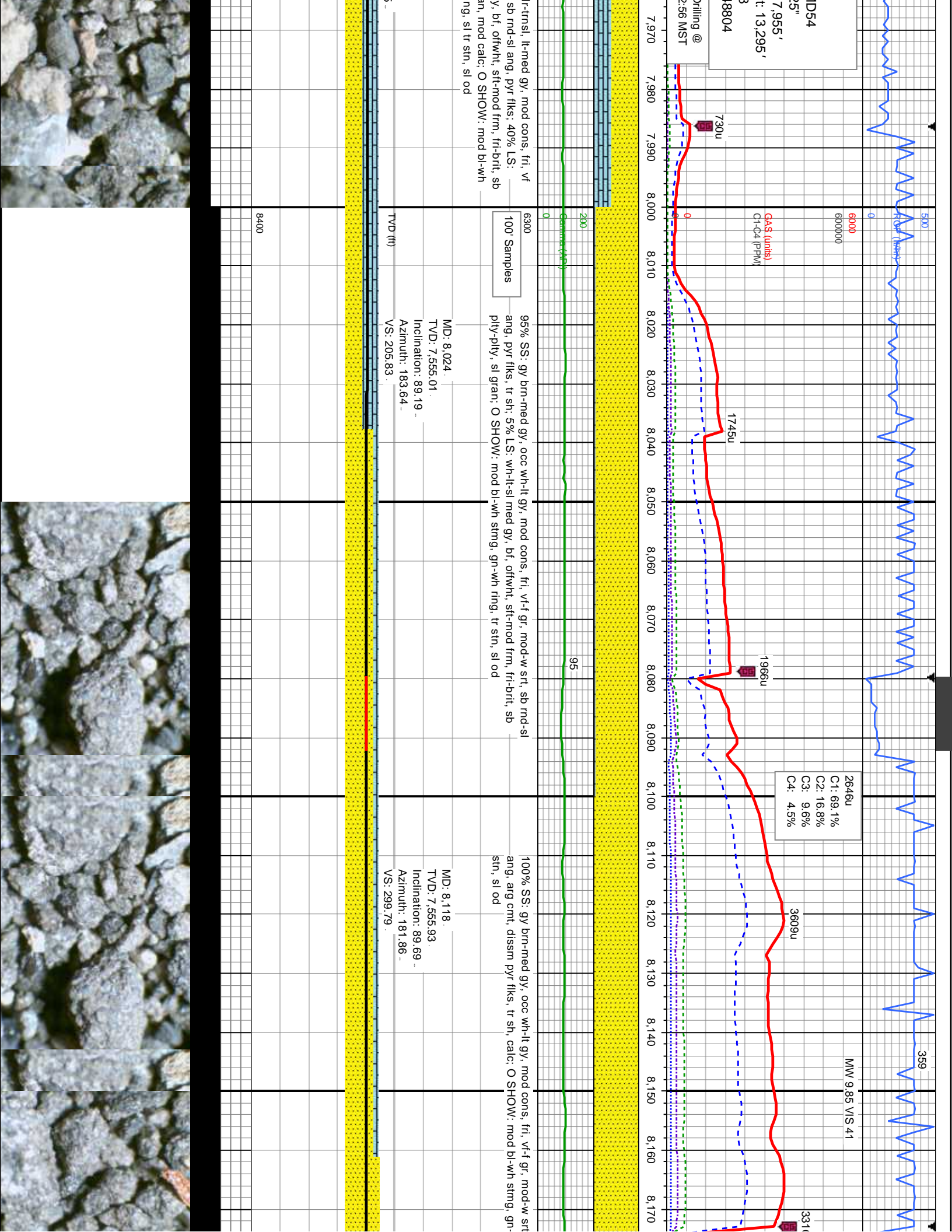


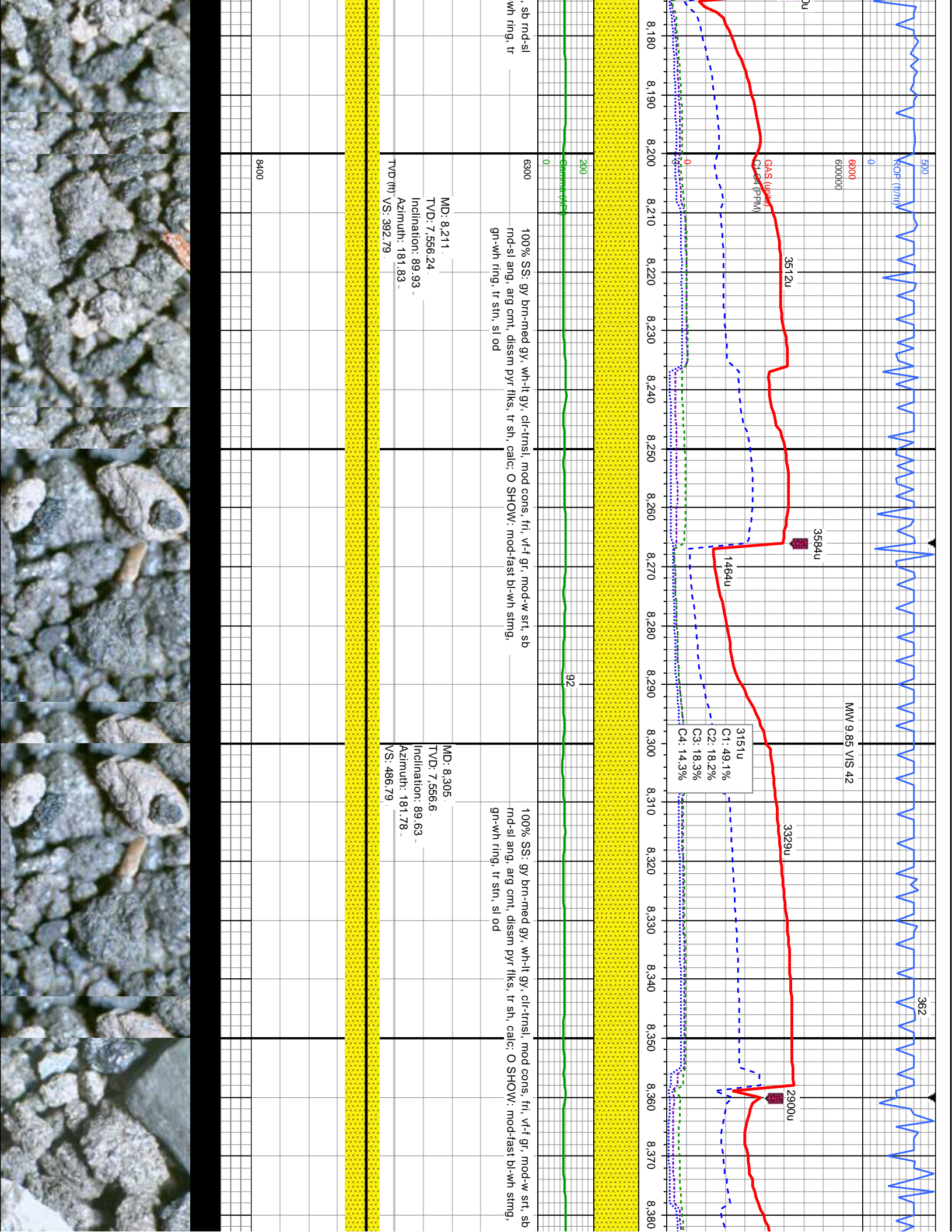




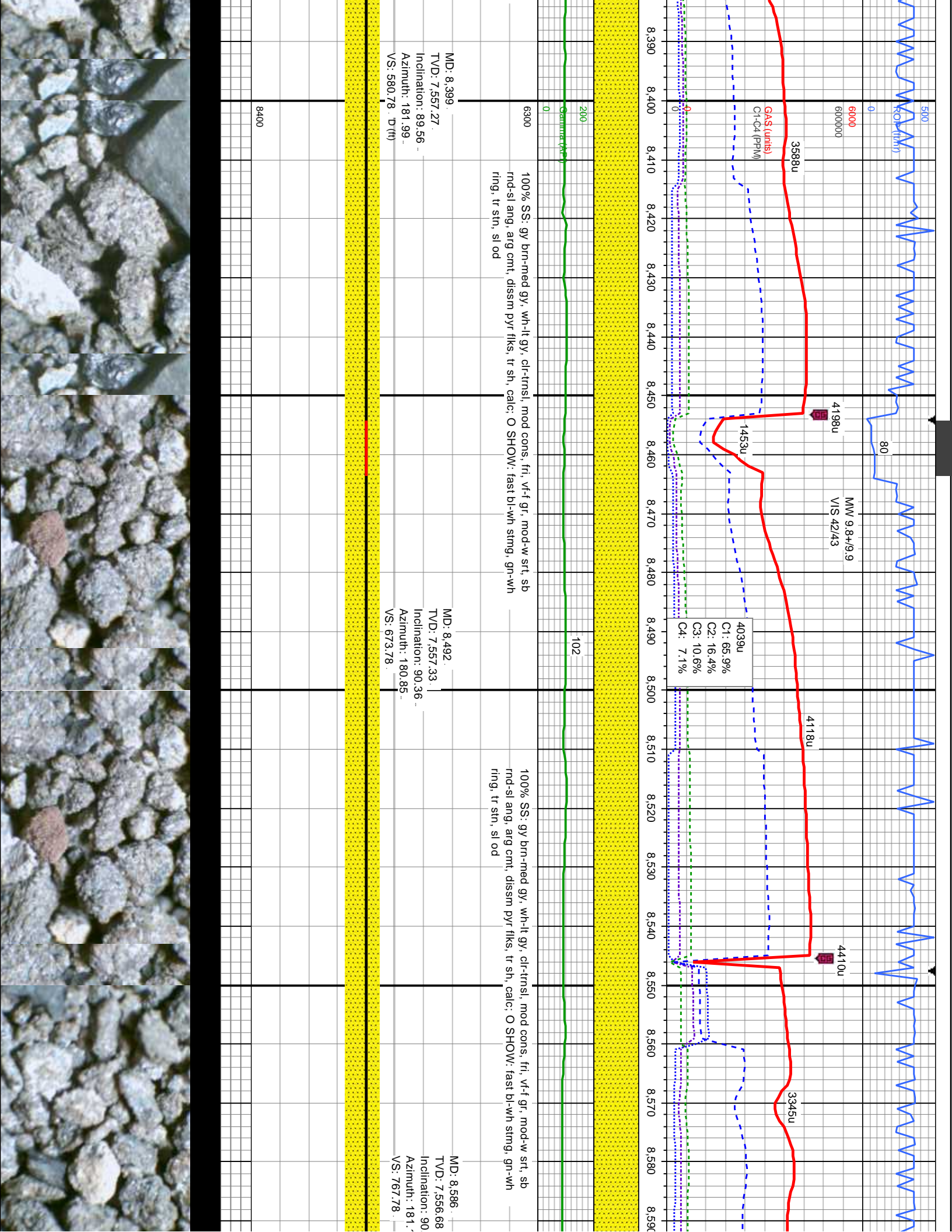




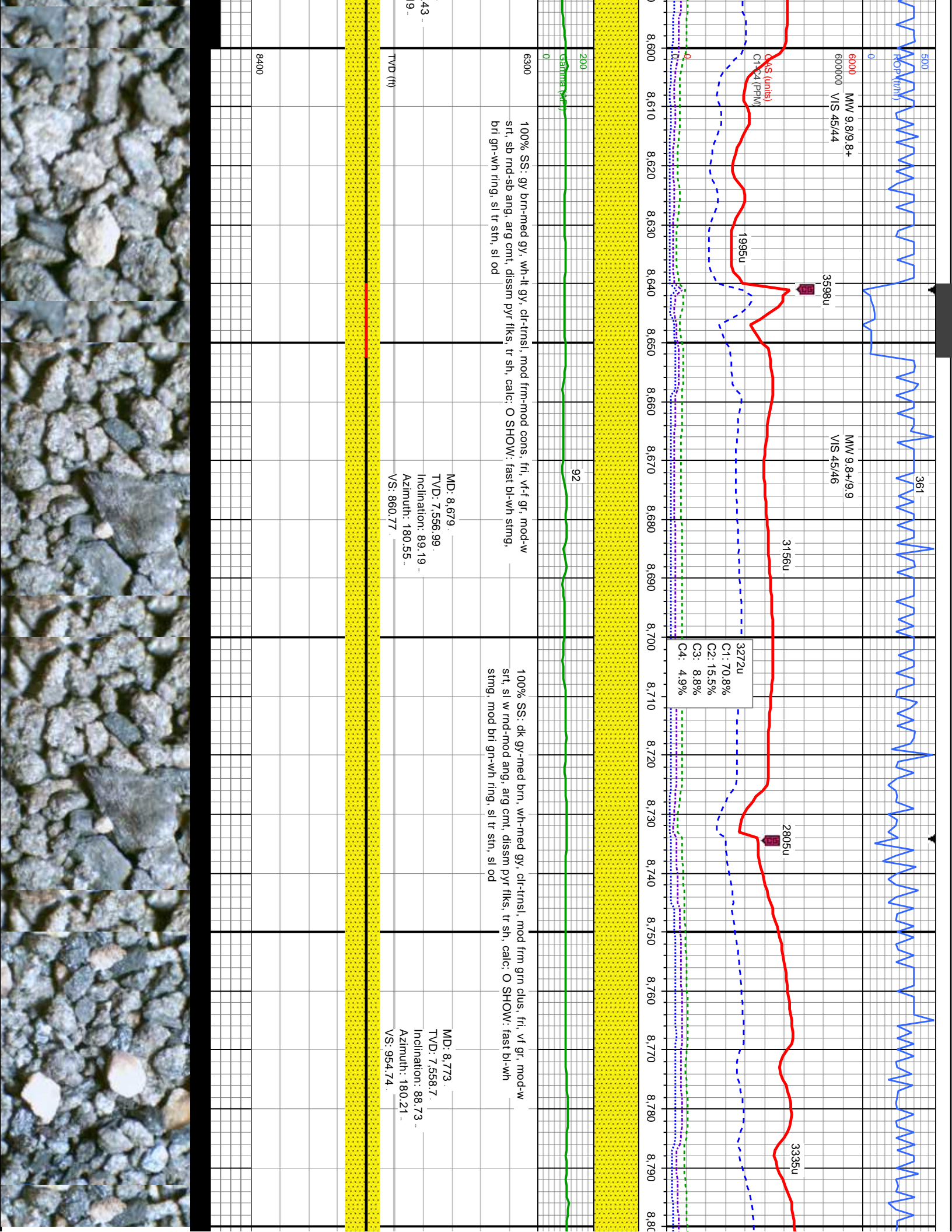




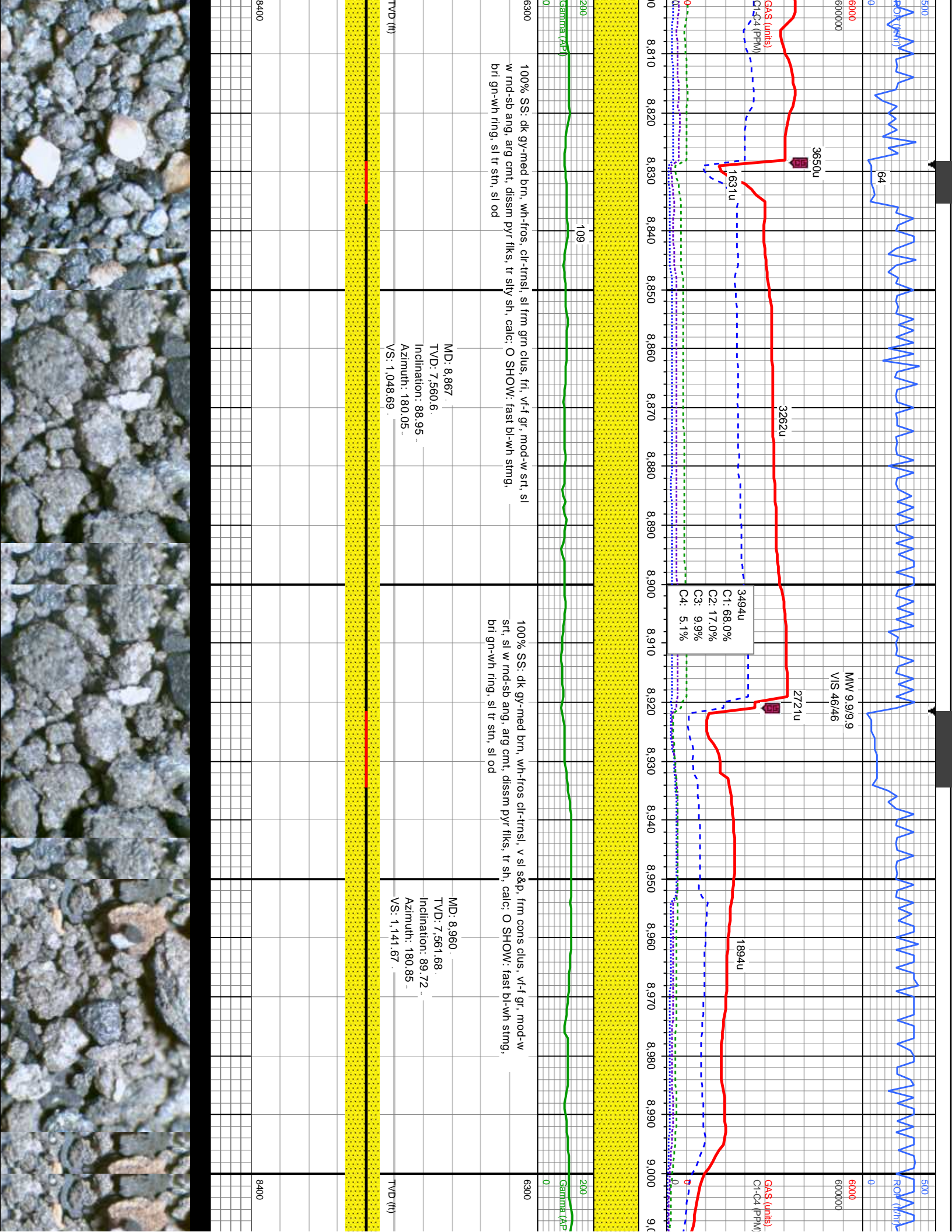




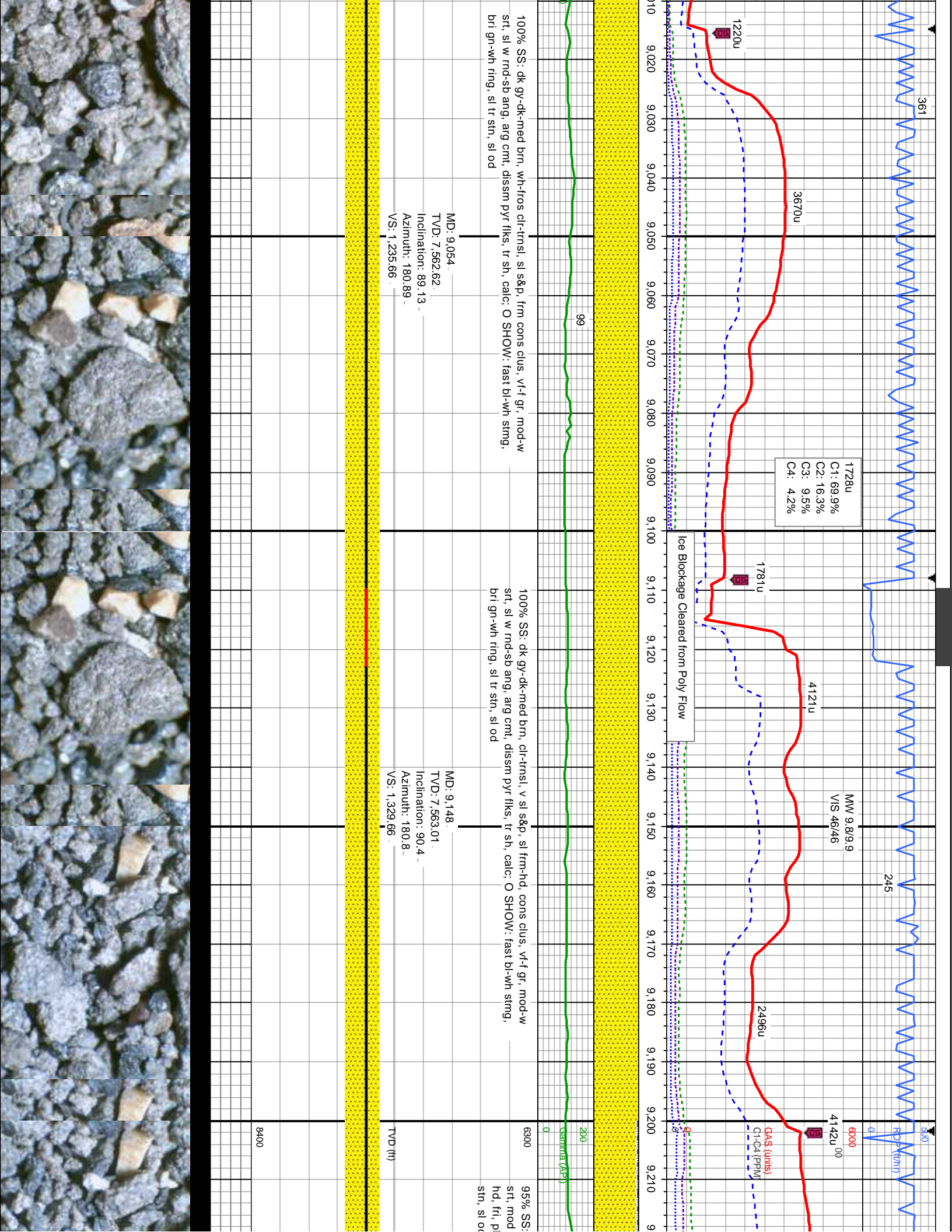




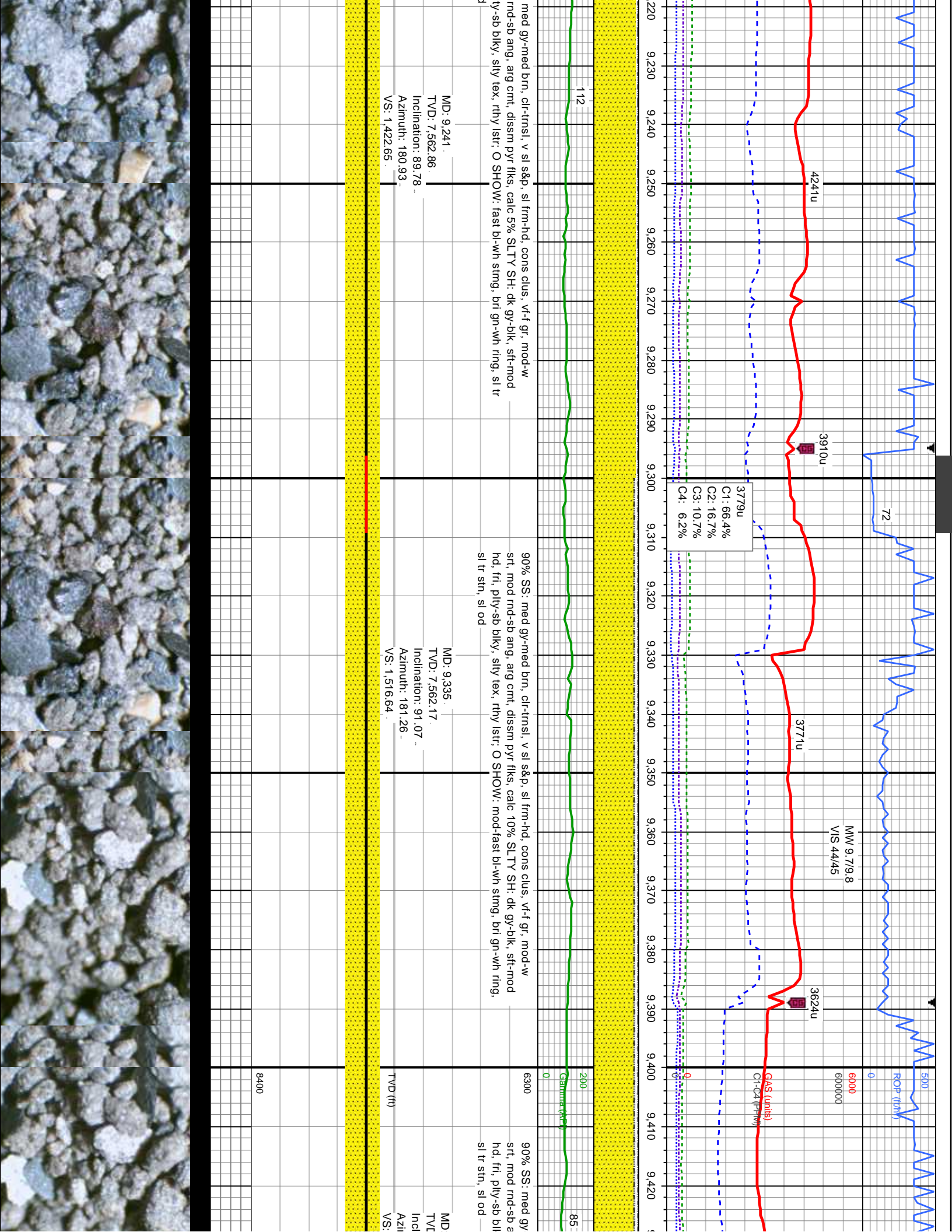






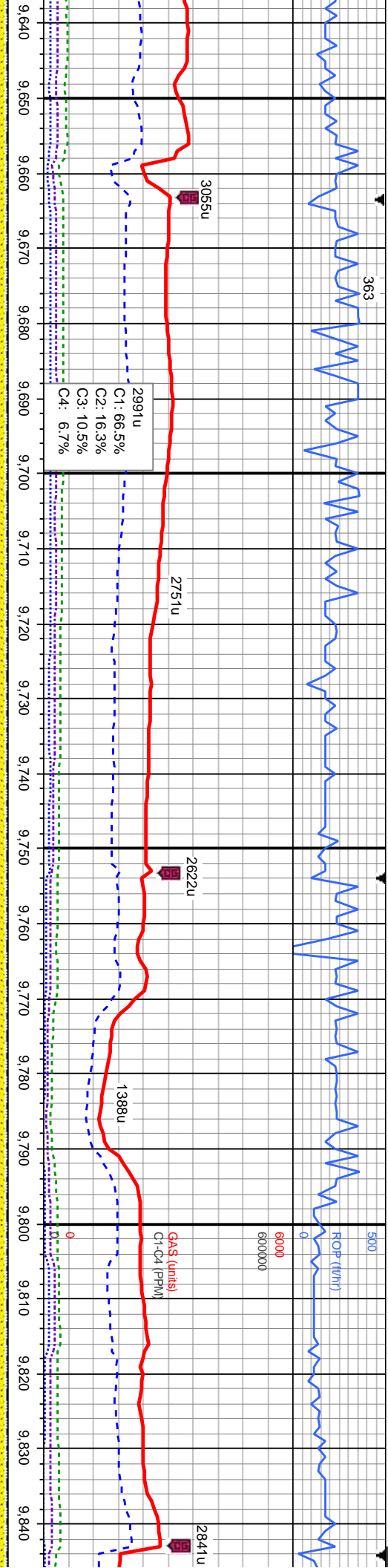












9,640 9,650 9,660 9,670 9,680 9,690 9,700 9,710 9,720 9,730 9,740 9,750 9,760 9,770 9,780 9,790 9,800 9,810 9,820 9,830 9,840

6300

200

47

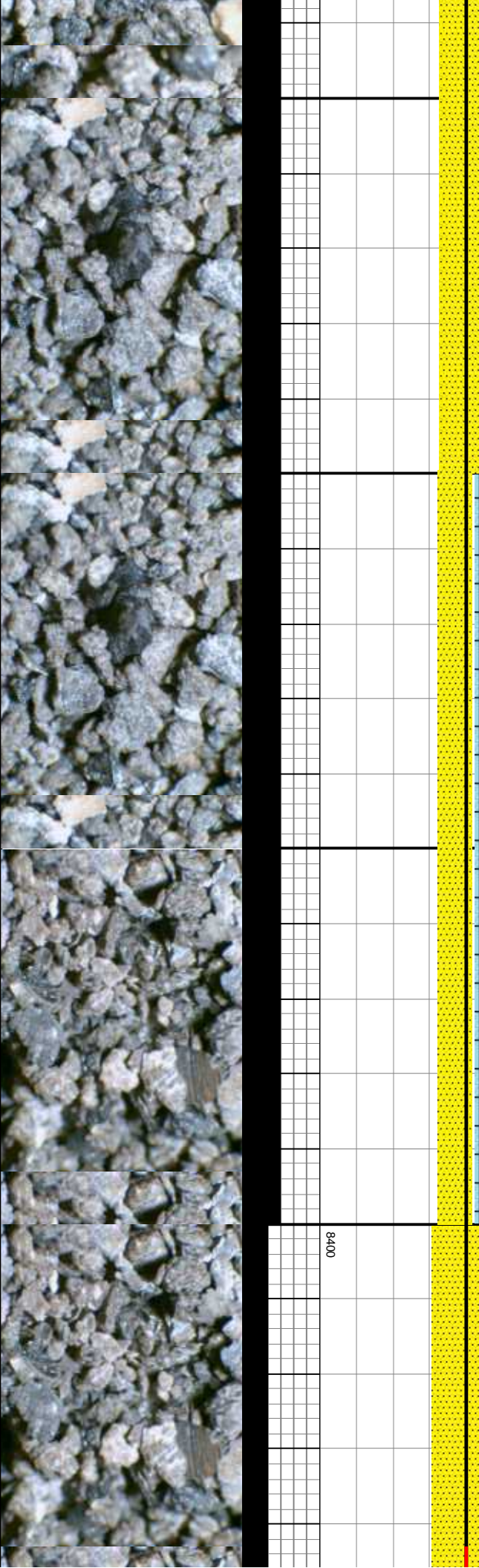
90% SS: gy brn-med gy, ooc wh-lt gy, m  
pyr: 5% LS: wh-lt-sl med gy, bf, offwhlt, s  
SLTY SH: dk gy-blk, sft-mod hd, fri, ply  
SHOW: mod bl-wh stimg, bri gn-wh ring,

75% SS: gy brn-med gy, ooc wh-lt gy, mod cons, fri, v-f gr, mod-w srt, sb md-sl ang, scat pyr:  
20% LS: wh-lt-sl med gy, bf, offwhlt, sft-mod frm, fri-brlt, sb ply-ply, sl gran, mod calc: 5%  
SLTY SH: dk gy-blk, sft-mod hd, fri, ply-sb blk, sly tex, rthy lstr; tr chk frags lt gy-brn; O  
SHOW: fast bl-wh stimg, bri gn-wh ring, tr stn, sl od

MD: 9,698  
TVD: 7,556  
Inclination: 90.61  
Azimuth: 179.03  
VS: 1,879.51

MD: 9,789  
TVD: 7,555.15  
Inclination: 90.46  
Azimuth: 177.89  
VS: 1,970.38

TVD (ft)

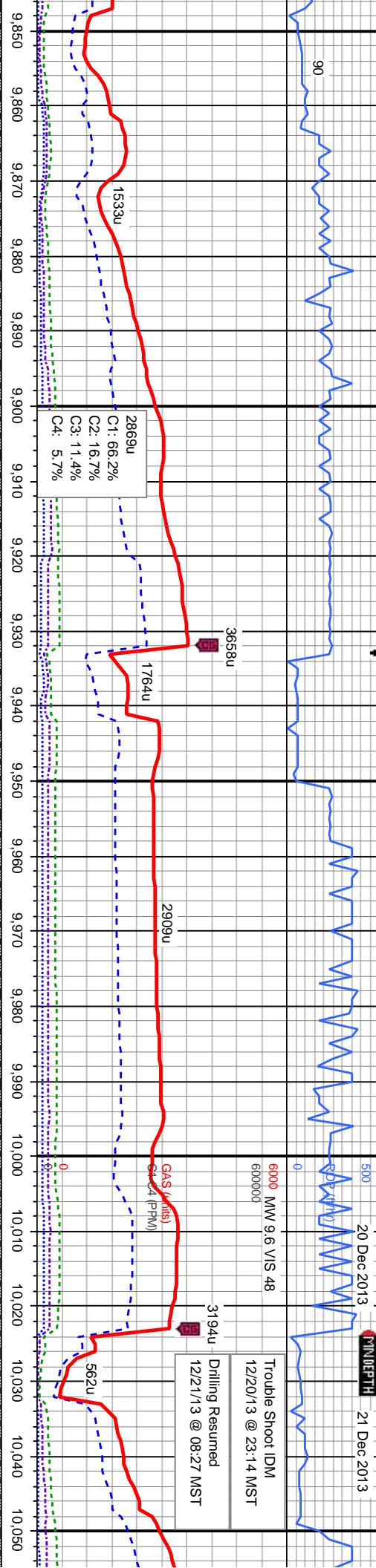




6000 MW 9.6 VIS 48

Trouble Shoot IDM  
12/20/13 @ 23:14 MST

Drilling Resumed  
12/21/13 @ 08:27 MST



mod cons, fri, vt-f gr, mod-w srt, sb rnd-sl ang, scat  
sft-mod frm, fri-brit, sb ply-pty, sl gran, sl calc: 5%  
sb blk, silty tex, rthy lstr; tr chk frags lt gy-brn; O  
sl tr stn, sl od

90% SS: gy brn-med gy, occ wh-lt gy, mod cons, fri, vt-f gr, mod-w srt, sb rnd-sl ang, scat pyr;  
5% LS: wh-lt-sl med gy, bf, offwht, sft-mod frm, fri-brit, sb ply-pty, sl gran, sl calc: 5% SLTY  
SH: dk gy-blk, sft-mod hd, fri, ply-sb blk, silty tex, rthy lstr; tr chk frags lt gy-brn; O SHOW:  
mod bl-wh stmg, bri gn-wh ring, sl tr stn, sl od

6300 85% SS: gy brn-med gy, occ wh-lt gy, mod cons, fri,  
10% SLTY SH: dk gy-blk, sft-mod hd, fri, ply-sb blk  
bf, offwht, sft-mod frm, fri-brit, sb ply-pty, sl gran, s  
gn-wh ring, sl tr stn, sl od

MD: 9.879  
TVD: 7.556.94  
Inclination: 87.26  
Azimuth: 176.7  
VS: 2.060.12

MD: 9.969  
TVD: 7.560.25  
Inclination: 88.52  
Azimuth: 176.7  
VS: 2.149.75

TVD (ft)

8400











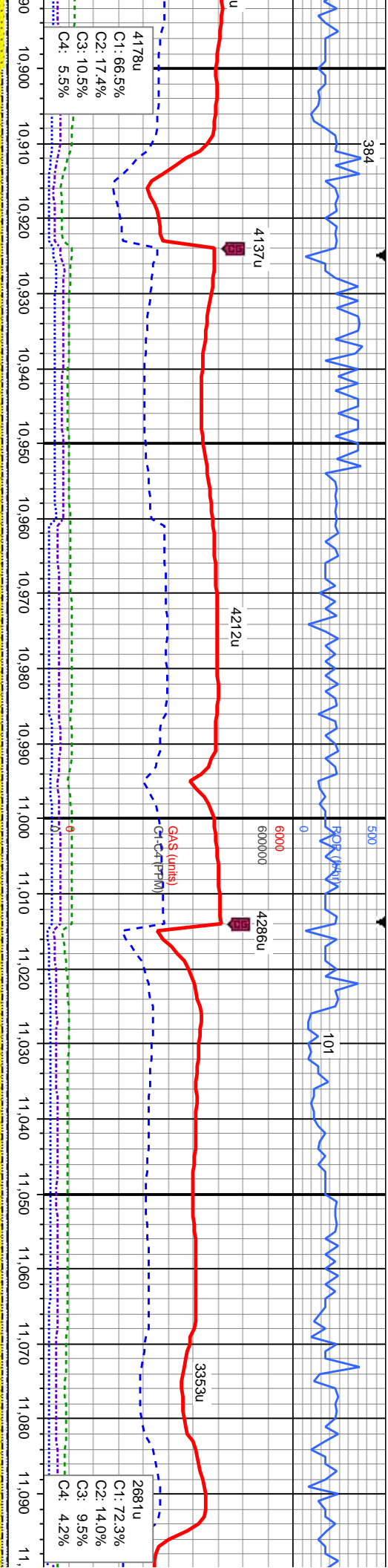












95% SS: med-dk gy, brn-dk brn, wh-trnsl, mod-fr cons clus, fri, vf-f gr, mod-w srt, sb rd-sb ang, scat pyr 5% SLTY SH: dk gy-blk, mod frm, fri, pty-sb blk, silty tex, rthy-sl wxy tex; tr LS, sl calc; O SHOW: mod bl-wh string, bri gn-wh ring, sl tr stn, sl od

63% SS: med-dk gy, brn-dk brn, wh-trnsl, mod-fr cons clus, fri, vf-f gr, mod-w srt, sb rd-sb ang, scat pyr 5% SLTY SH: dk gy-blk, mod frm, fri, pty-sb blk, silty tex, rthy-sl wxy tex; v tr LS, sl calc; O SHOW: mod bl-wh string, bri gn-wh ring, sl tr stn, sl od

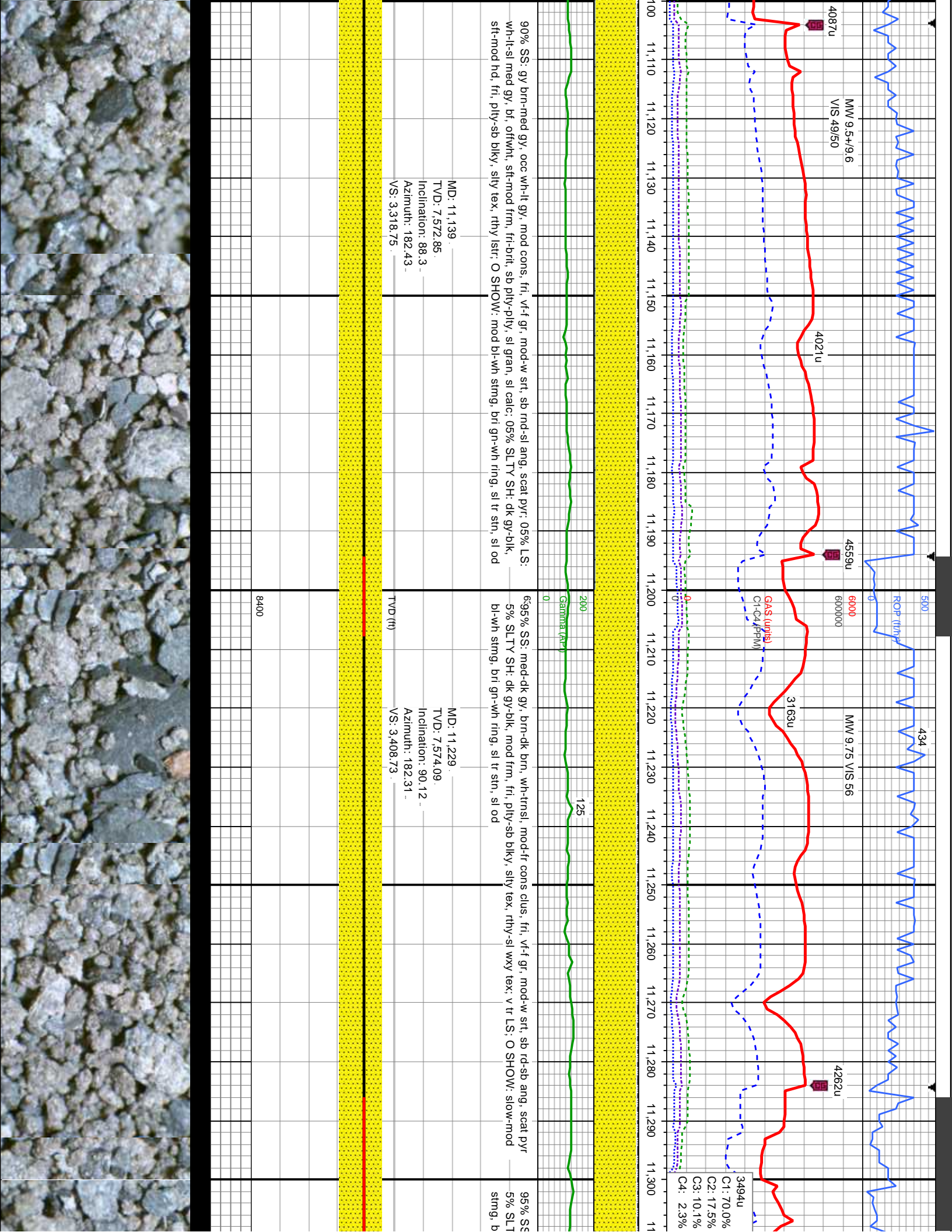
MD: 10,959  
TVD: 7,569.31  
Inclination: 88.49  
Azimuth: 183.34  
VS: 3,138.88

MD: 11,049  
TVD: 7,571  
Inclination: 89.35  
Azimuth: 183.49  
VS: 3,228.81

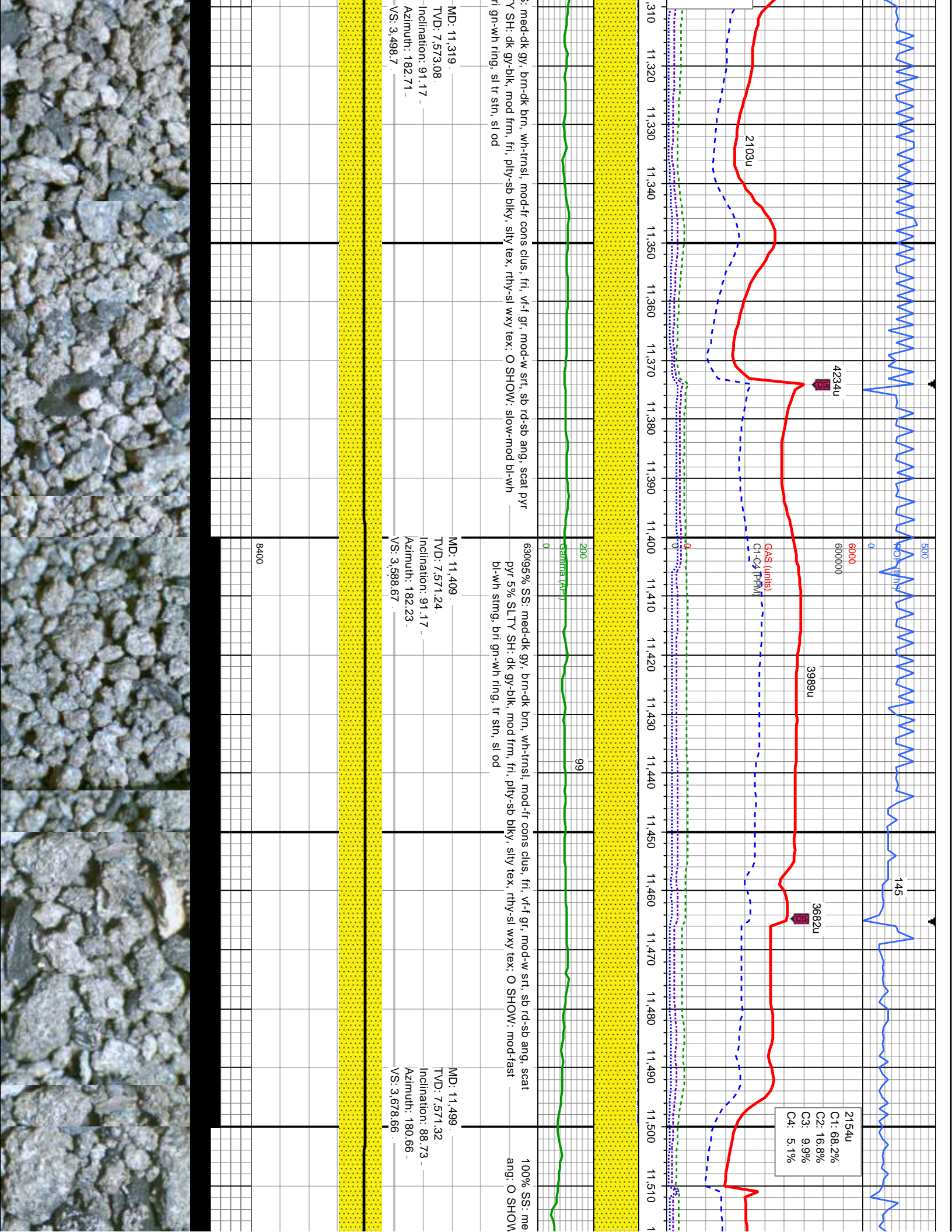
8400



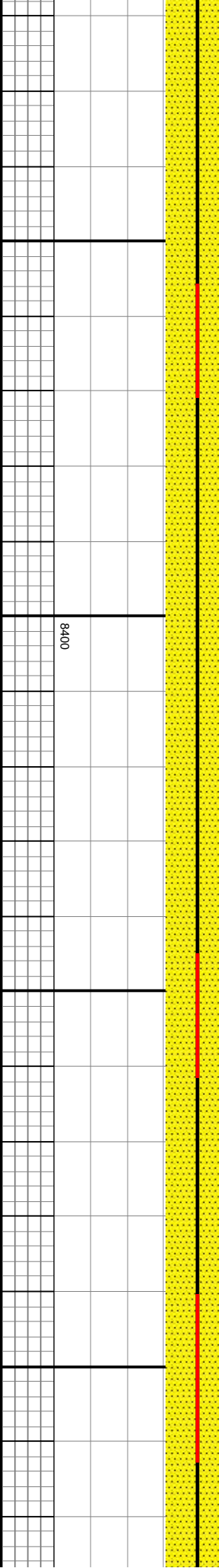
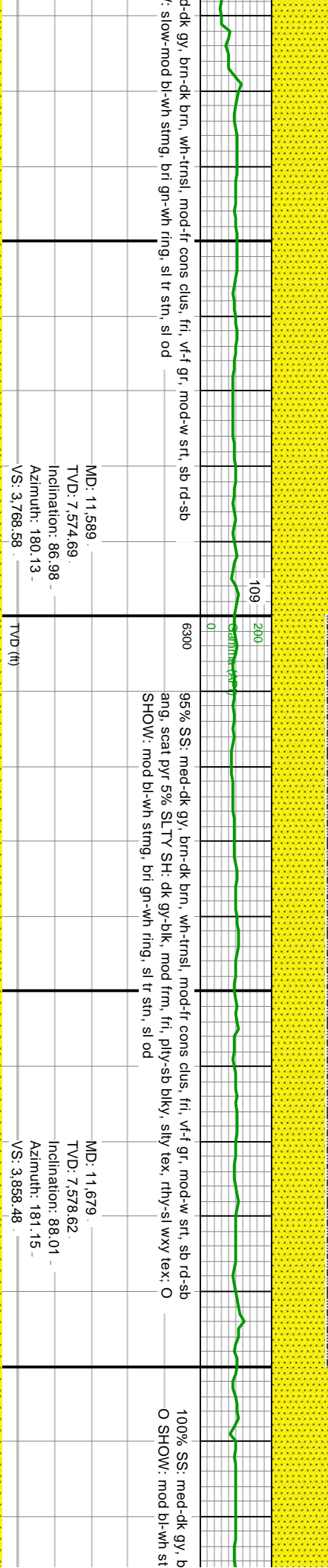
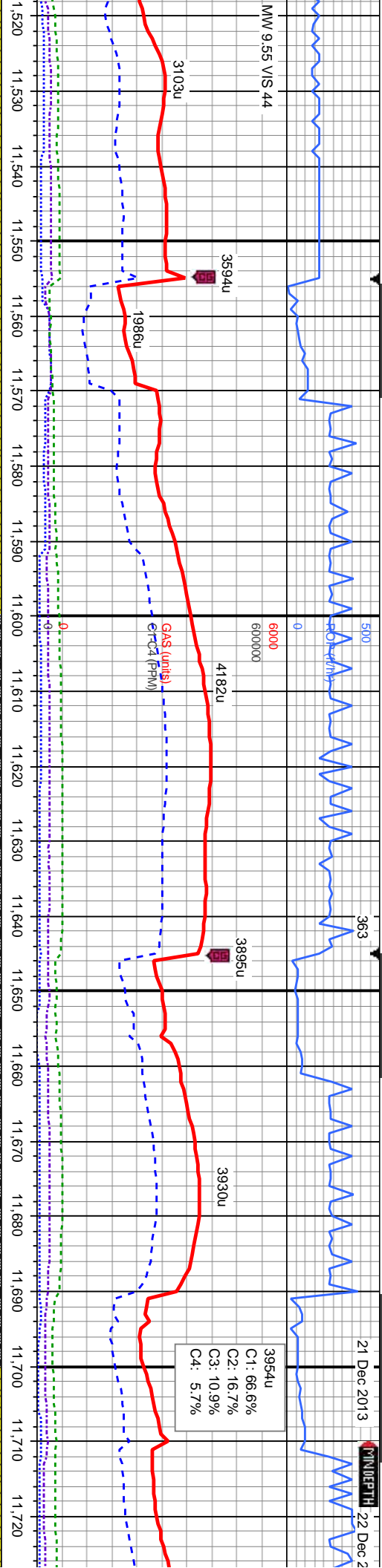








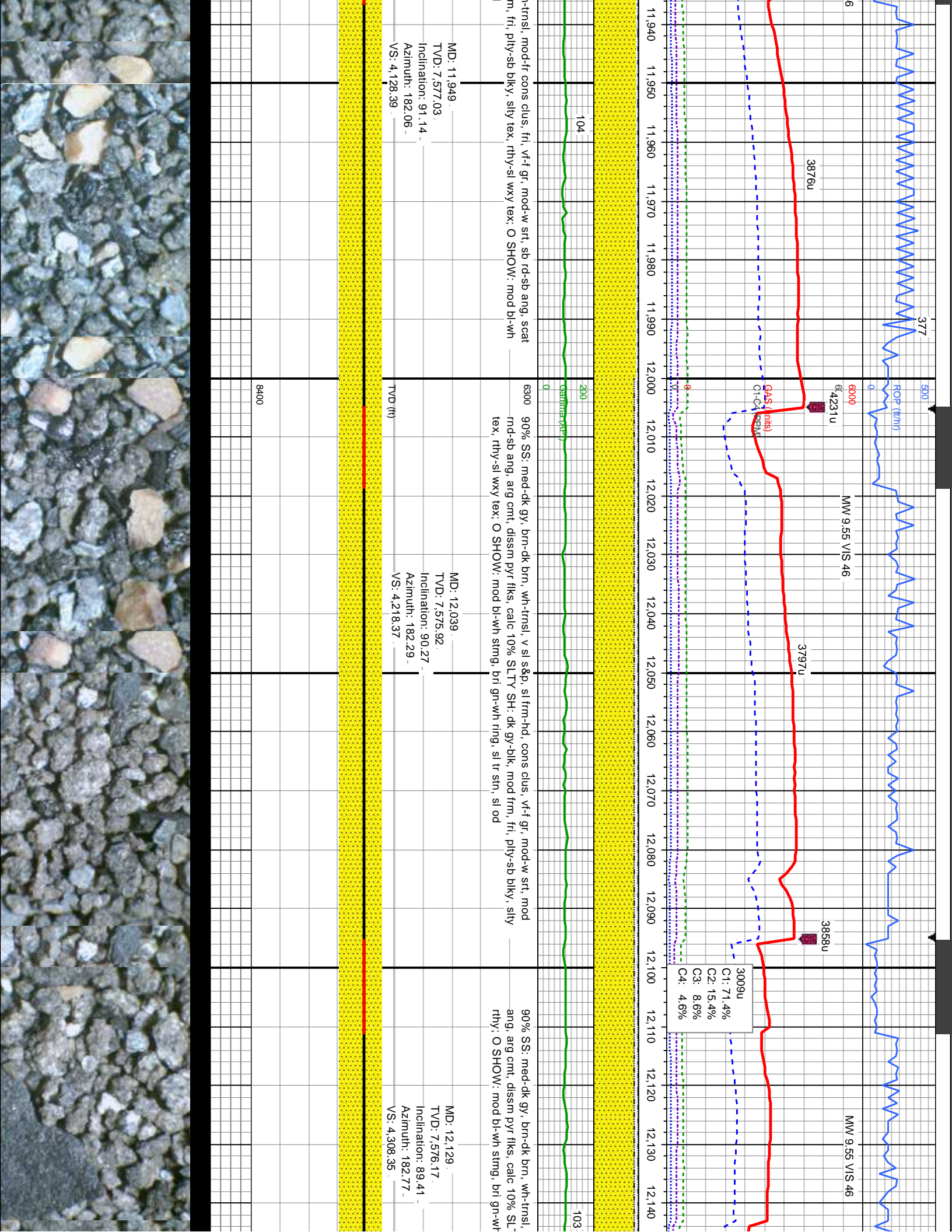




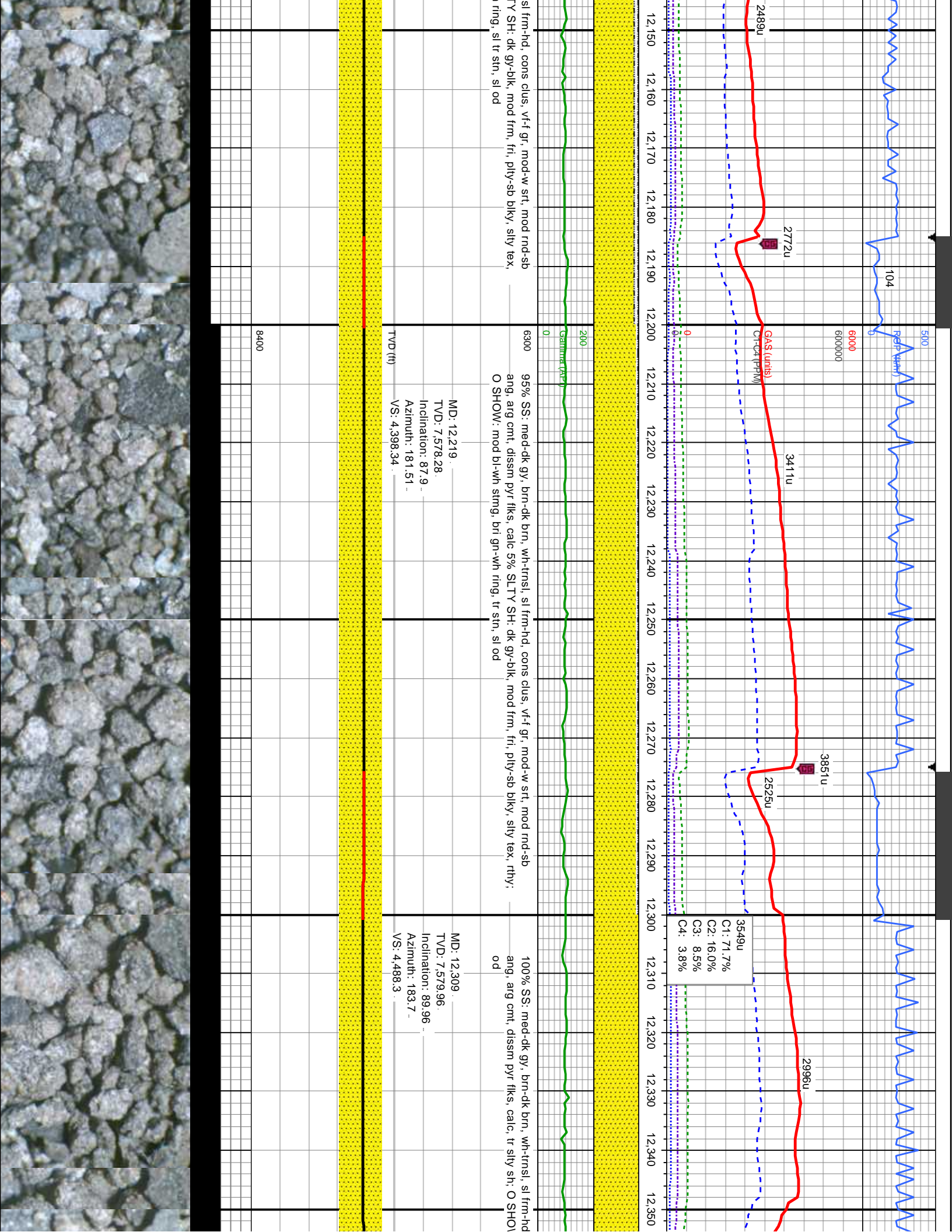




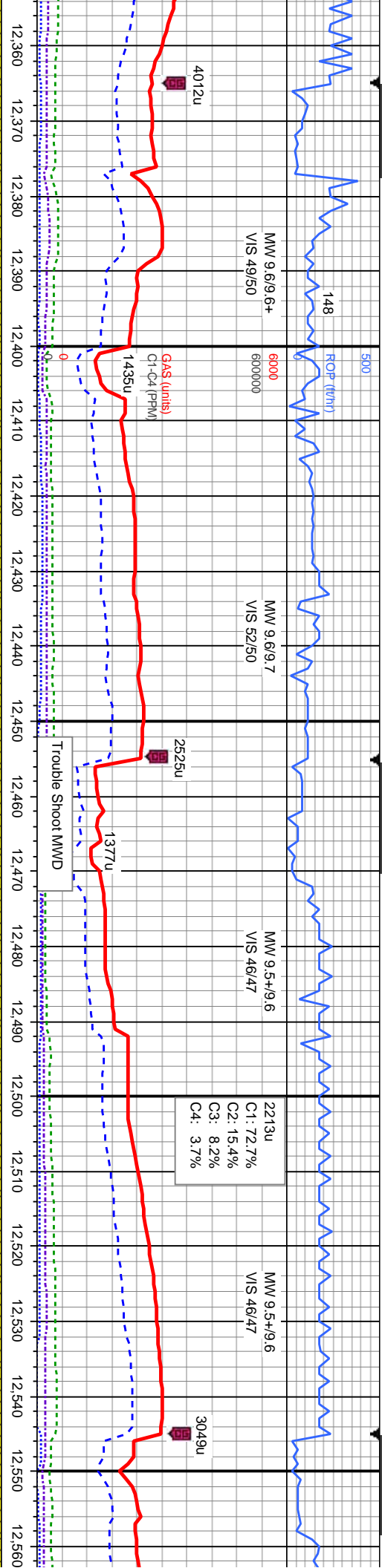












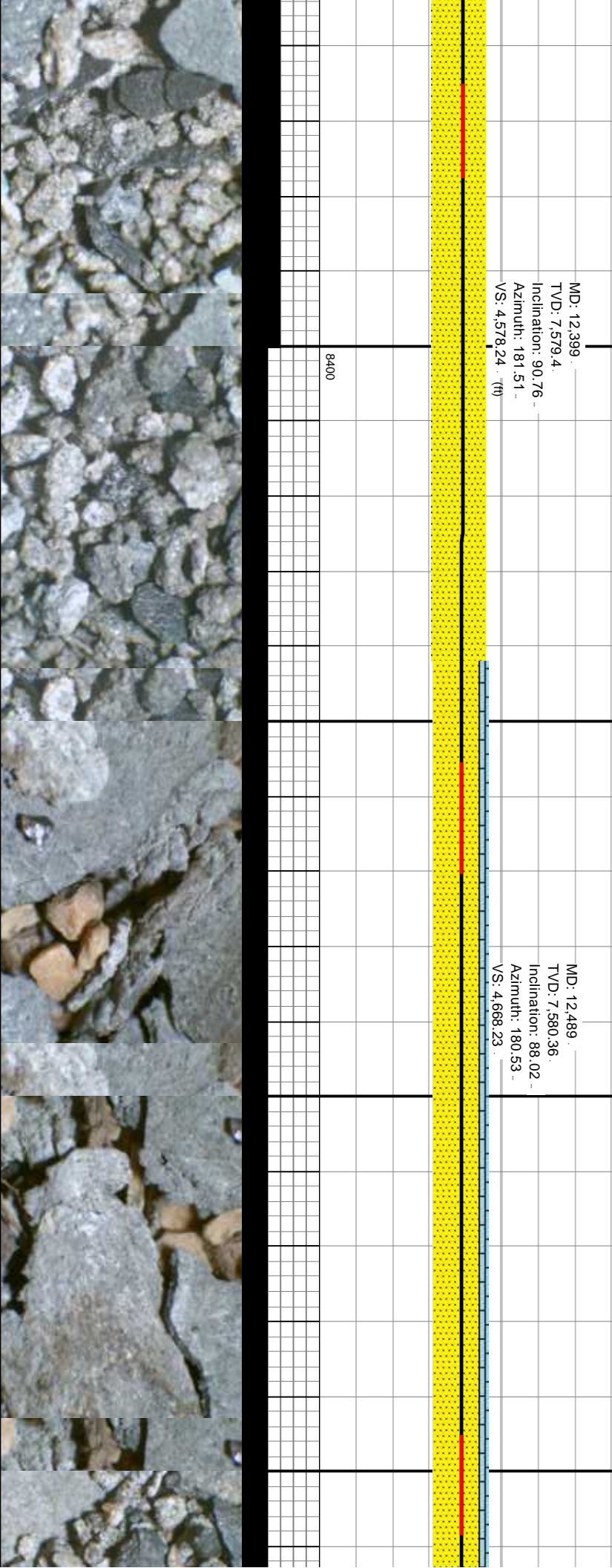
cons clus, vt-f gr, mod-w srt, mod rnd-sb  
W, mod bl-wh string, bri gn-wh ring, tr str, sl

MD: 12,399  
TVD: 7,579.4  
Inclination: 90.76  
Azimuth: 181.51  
VS: 4,578.24 (ft)

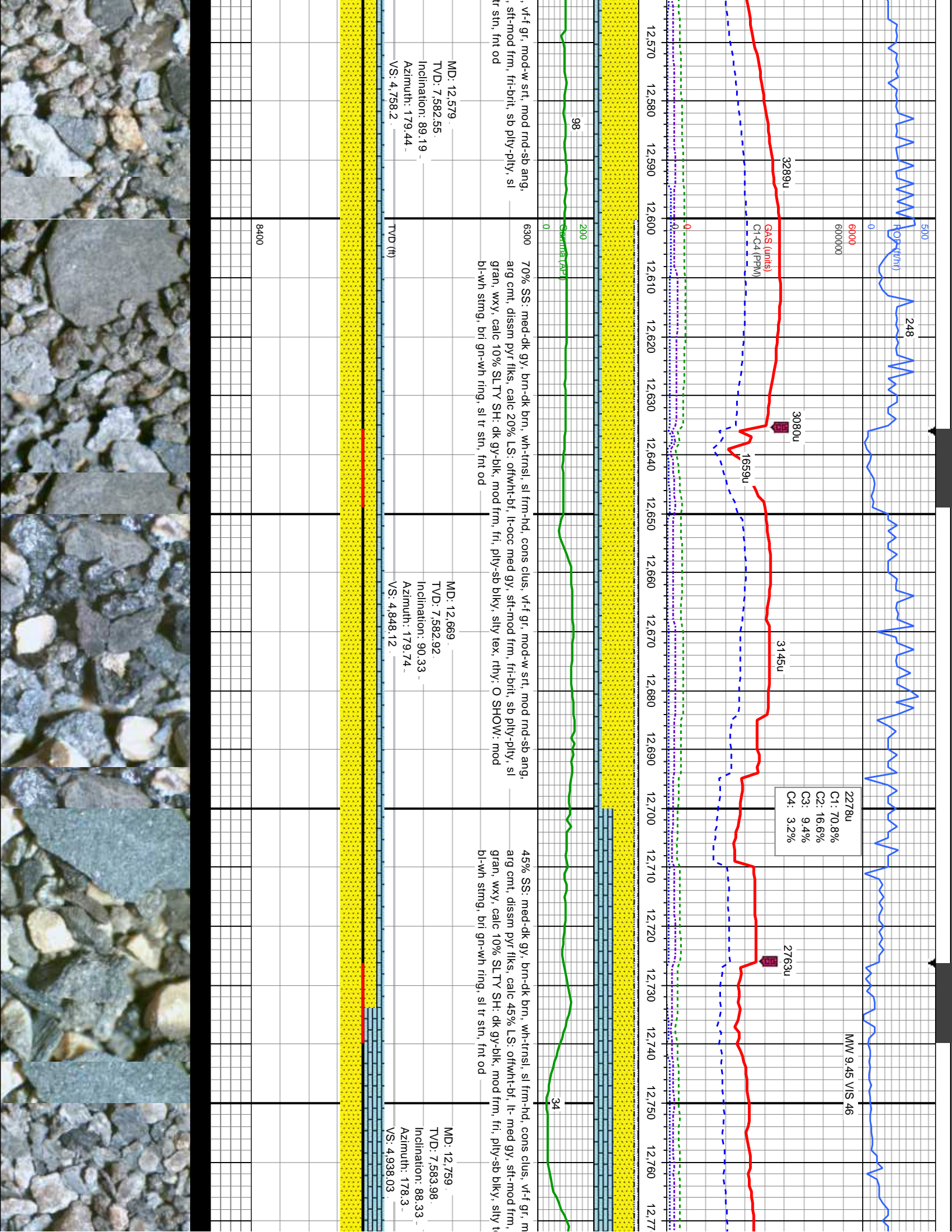
6300 85% SS: med-dk gy, brn-dk brn, wh-trns, sl frm-hd, cons clus, vt-f gr, mod-w srt, mod rnd-sb ang, arg cmt, dissim pyr flks, calc 15% LS: oflwh-bf, lt-occ med gy, sft-mod frm, fri-brit, sb ply-ply, sl gran, calc, O SHOW: mod bl-wh string, bri gn-wh ring, sl tr str, fnt od

MD: 12,489  
TVD: 7,580.36  
Inclination: 88.02  
Azimuth: 180.53  
VS: 4,668.23

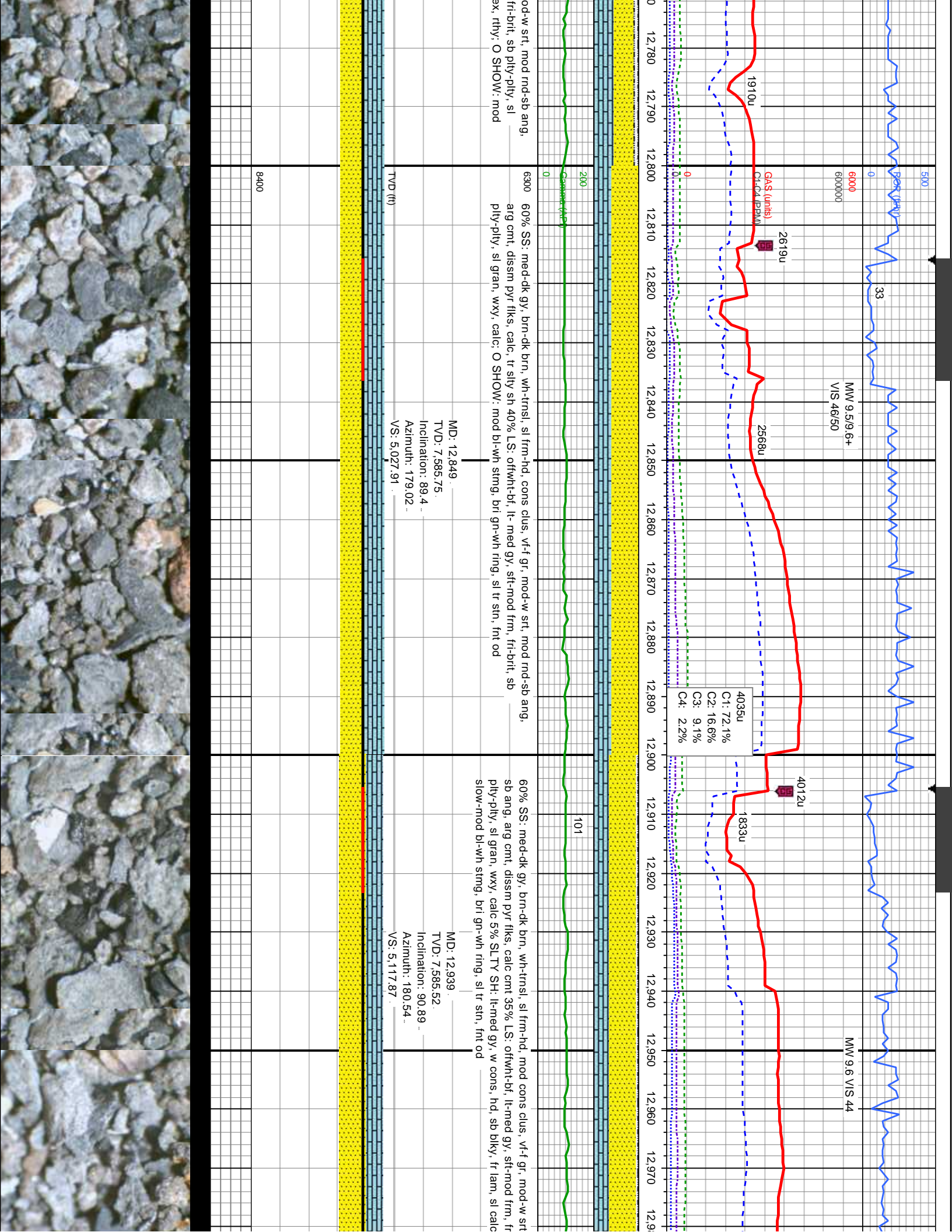
80% SS: med-dk gy, brn-dk brn, wh-trns, sl frm-hd, cons clus, arg cmt, dissim pyr flks, calc 20% LS: oflwh-bf, lt-occ med gy gran, wxy, calc, O SHOW: mod bl-wh string, bri gn-wh ring, sl



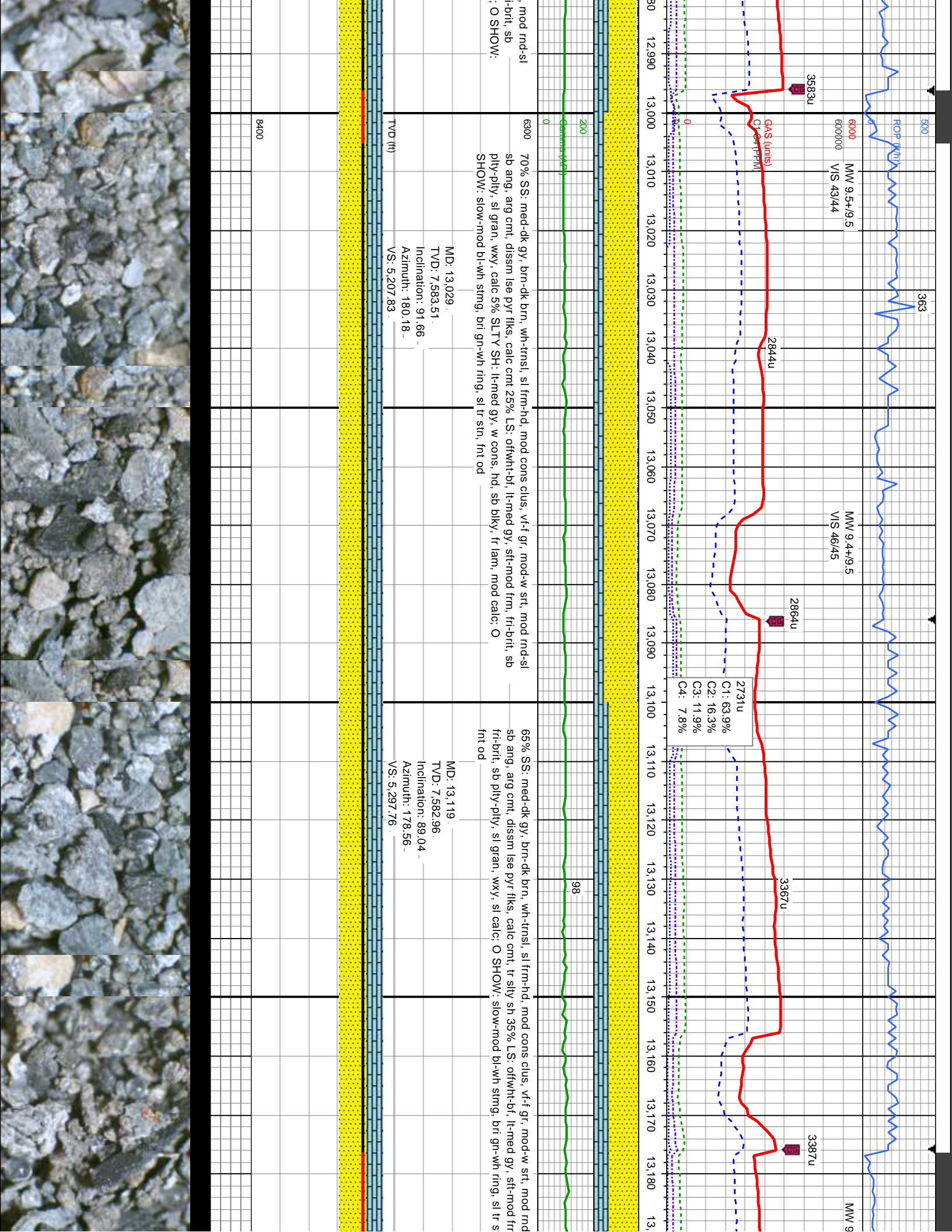




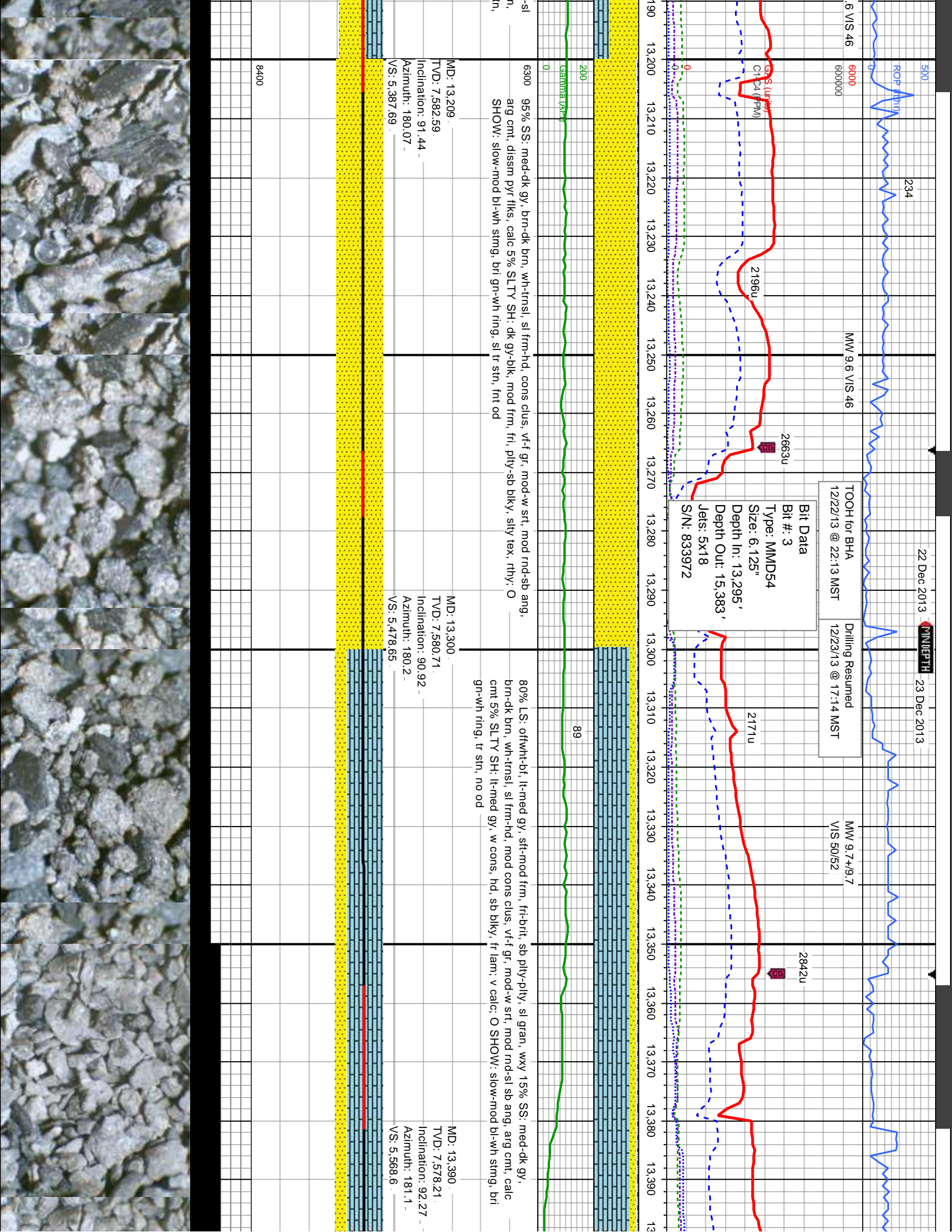




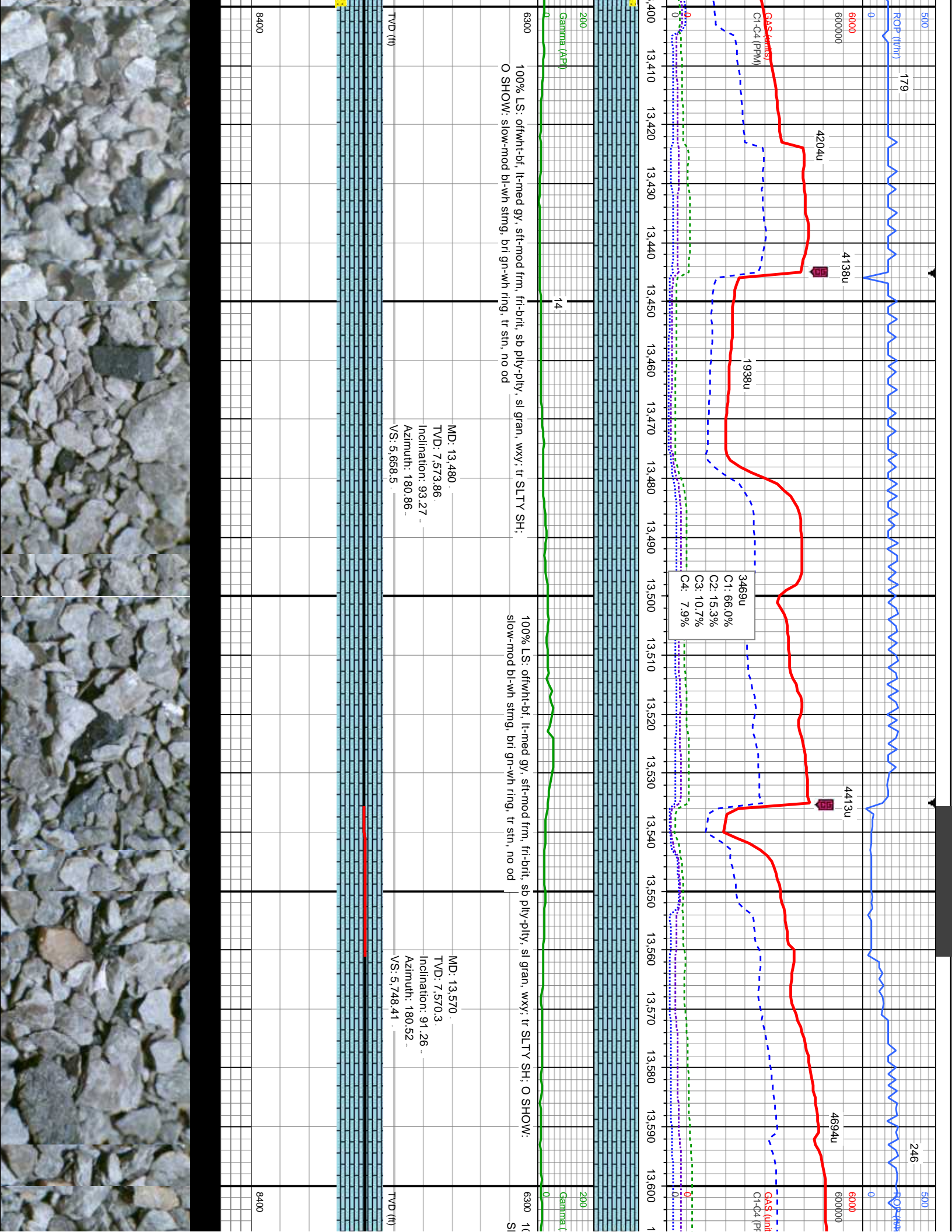


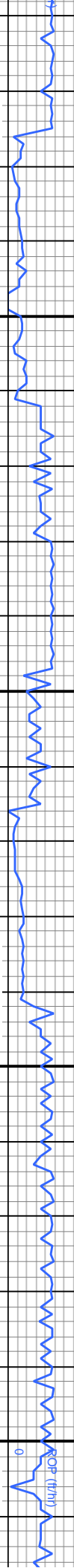












4496u  
MW 9.6 VIS 44

4352u

MW 9.8 VIS 44

4021u

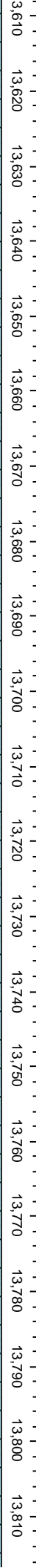
4725u  
C1: 68.2%  
C2: 17.0%  
C3: 9.9%  
C4: 4.9%

4428u

604962u  
6000

Gas (mols)  
CH-C4 (ppm)

604962u



20

100% LS: offwh-bf, lt-med gy, ooc lt brn, sft-mod frm, fri-brit, sb ply-ply, sl gran, wxy, tr SLTY  
100% LS: offwh-bf, lt-med gy, sft-mod frm, fri-brit, sb ply-ply, sl gran, wxy, v tr SLTY SH: O SHOW:  
100% LS: offwh-bf, lt-med gy, ooc lt brn, sft-mod frm, fri-brit, sb ply-ply, sl gran, wxy, tr SLTY  
100% LS: offwh-bf, lt-med gy, sft-mod frm, fri-brit, sb ply-ply, sl gran, wxy, v tr SLTY SH: O SHOW:

MD: 13,660  
TVD: 7,569.78  
Inclination: 89.41  
Azimuth: 180.52  
VS: 5,838.4

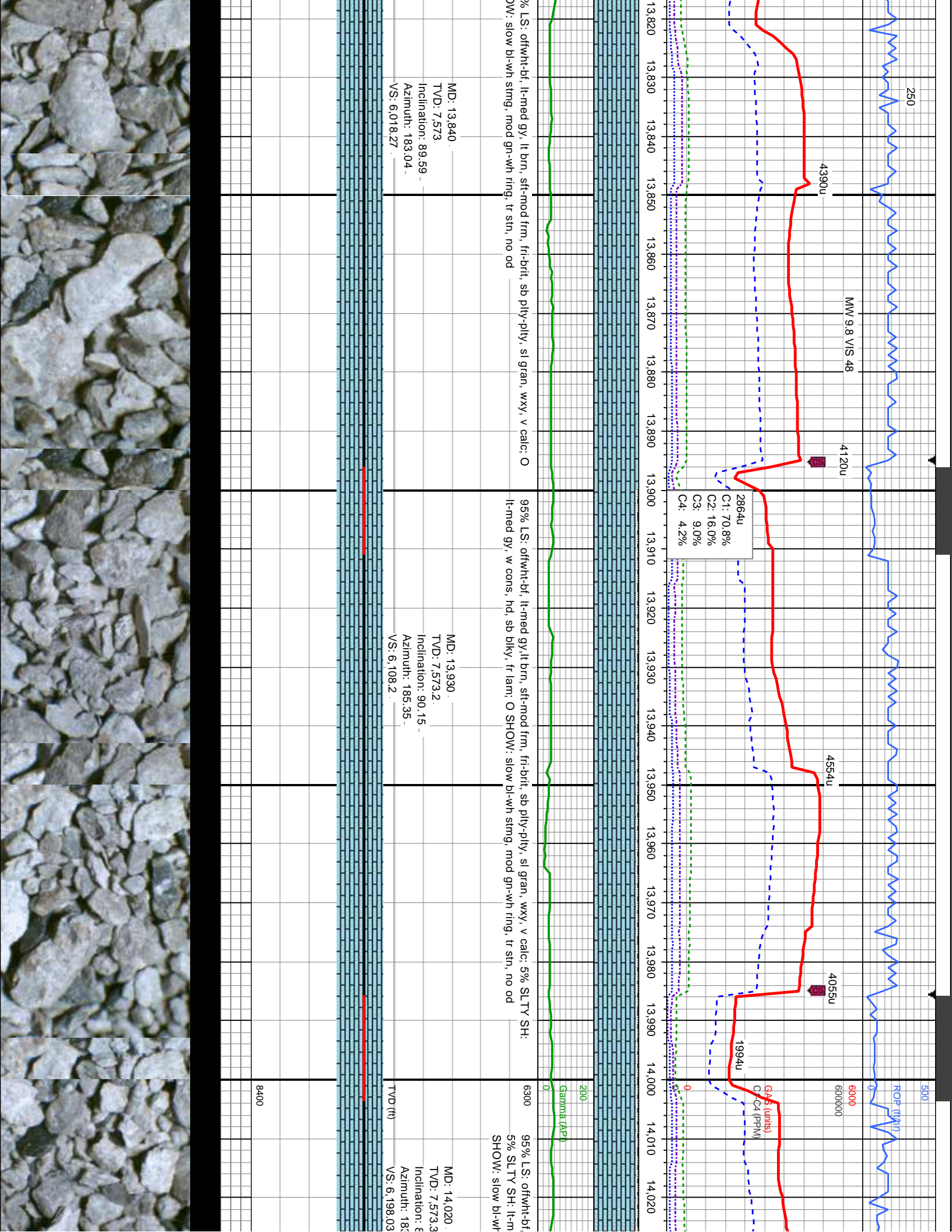
MD: 13,750  
TVD: 7,571.46  
Inclination: 88.45  
Azimuth: 184.23  
VS: 5,928.35

TVD (ft)

8400







250

4390u

MW 9.8 VIS 48

4120u

2864u  
C1: 70.8%  
C2: 16.0%  
C3: 9.0%  
C4: 4.2%

4554u

4055u

1994u

% LS: offwht-bf, lt-med gy, lt brn, sft-mod frm, fri-brit, sb ply-ply, sl gran, wxy, v calc; O  
VW: slow bl-wh stng, mod gn-wh ring, tr stn, no od

95% LS: offwht-bf, lt-med gy, lt brn, sft-mod frm, fri-brit, sb ply-ply, sl gran, wxy, v calc; 5% SLTY SH:  
lt-med gy, w cons, hd, sb blk, fr lam; O SHOW: slow bl-wh stng, mod gn-wh ring, tr stn, no od

95% LS: offwht-bf, 5% SLTY SH: lt-m  
SHOW: slow bl-wh

MD: 13,840  
TVD: 7,573  
Inclination: 89.59  
Azimuth: 183.04  
VS: 6,018.27

MD: 13,930  
TVD: 7,573.2  
Inclination: 90.15  
Azimuth: 185.35  
VS: 6,108.2

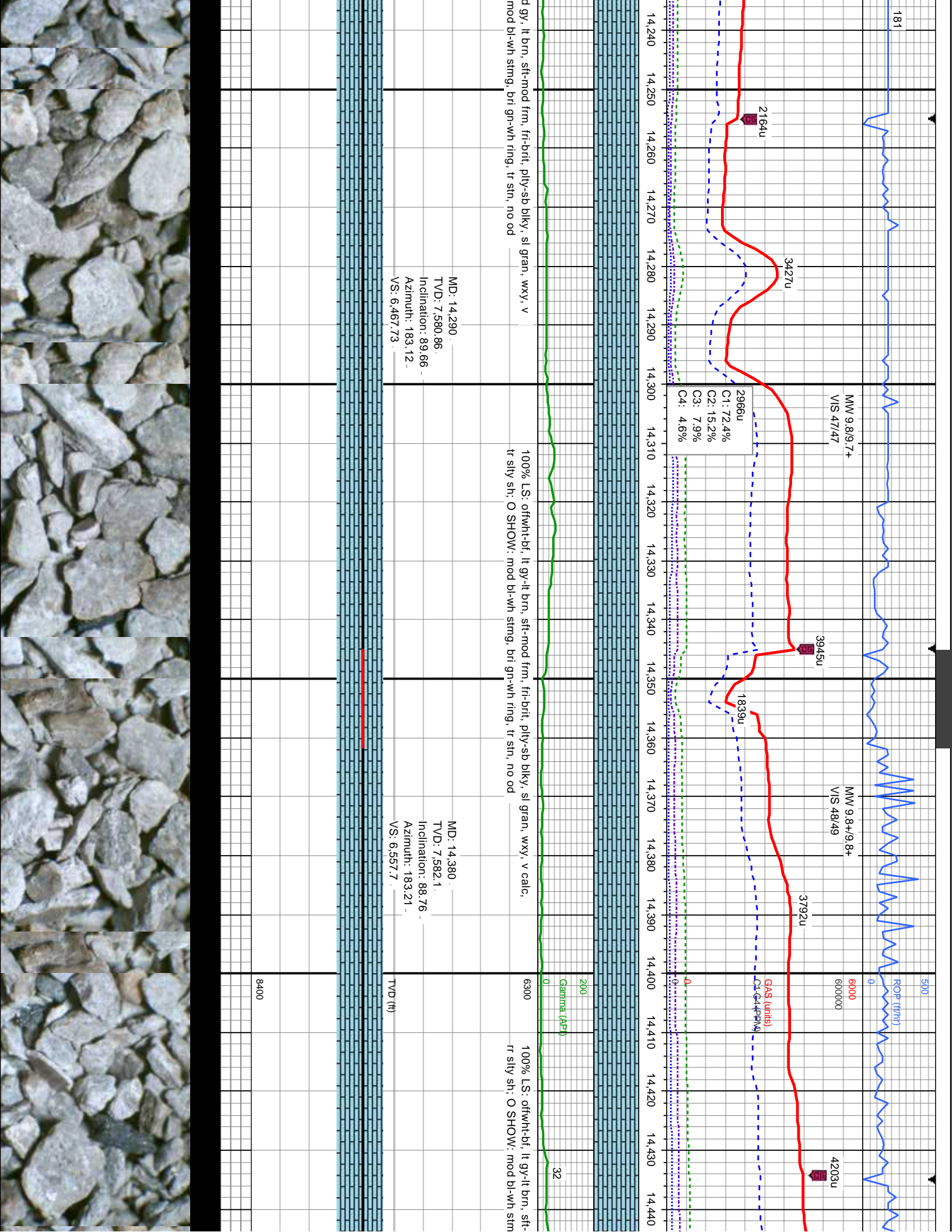
MD: 14,020  
TVD: 7,573.3  
Inclination: 89.59  
Azimuth: 183.04  
VS: 6,198.03

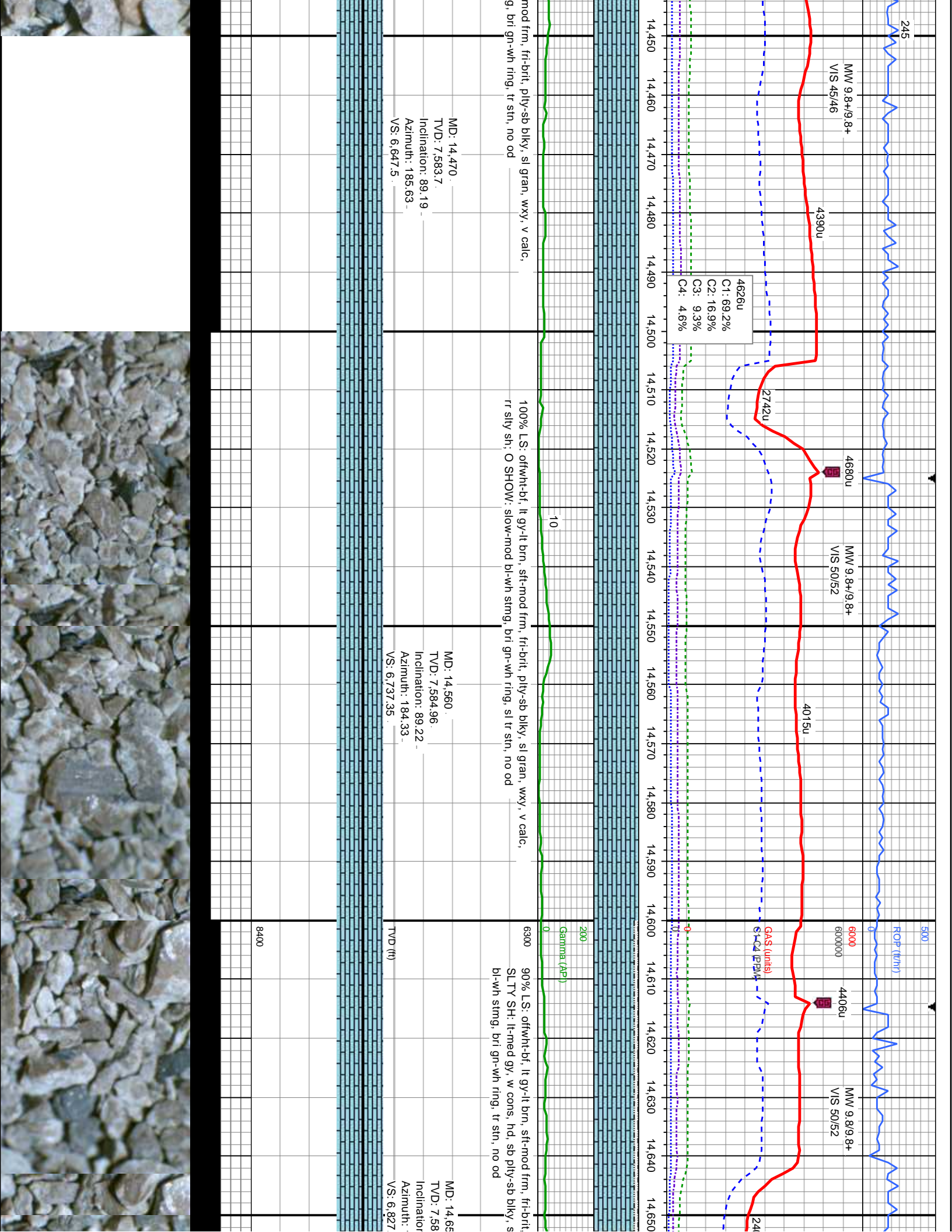
TVD (ft)

8400

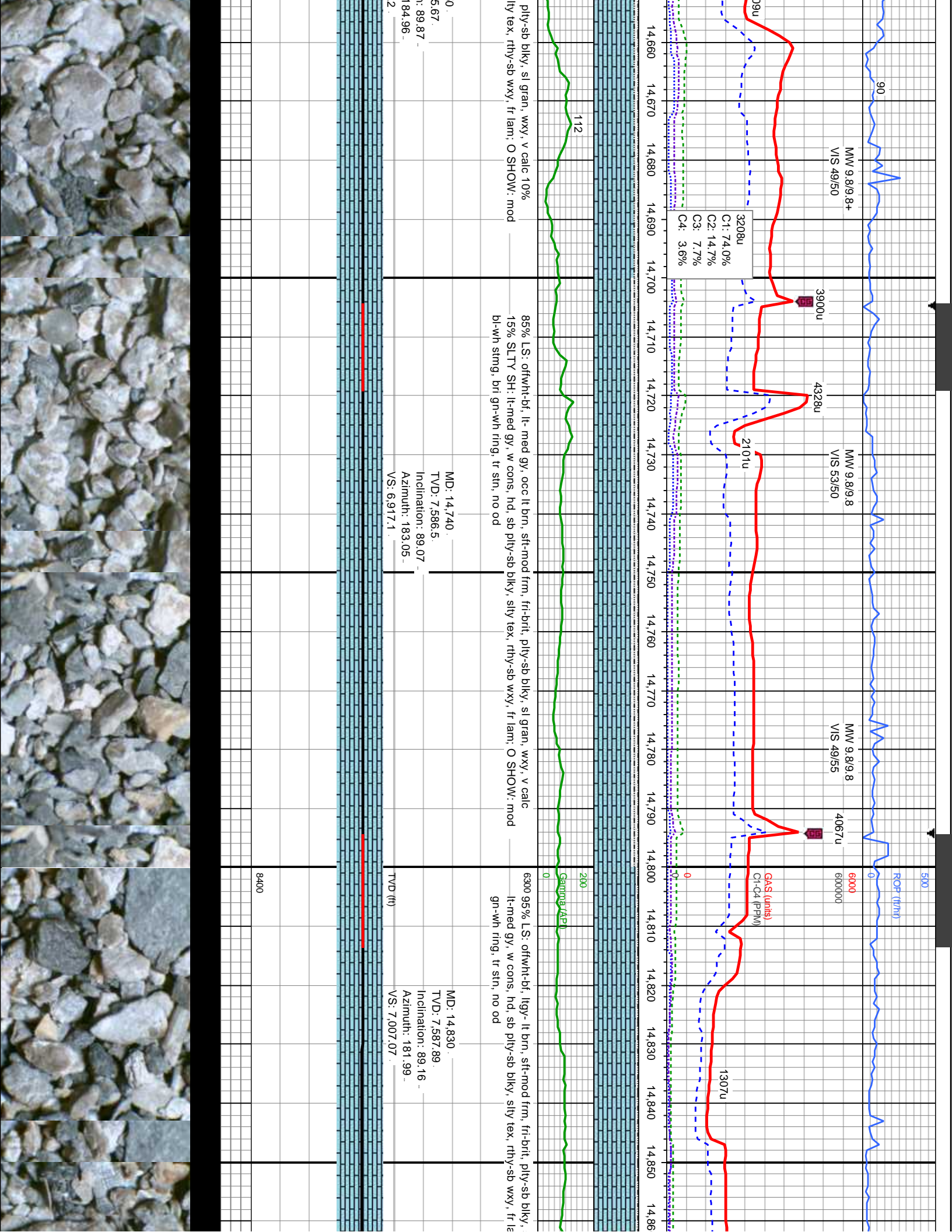








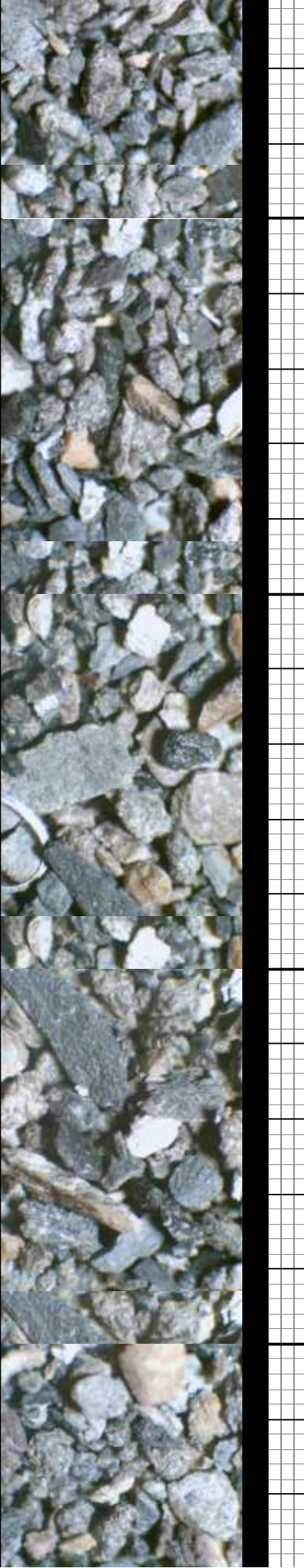
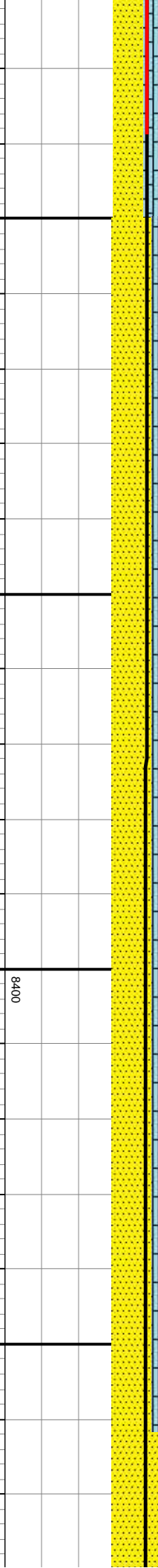
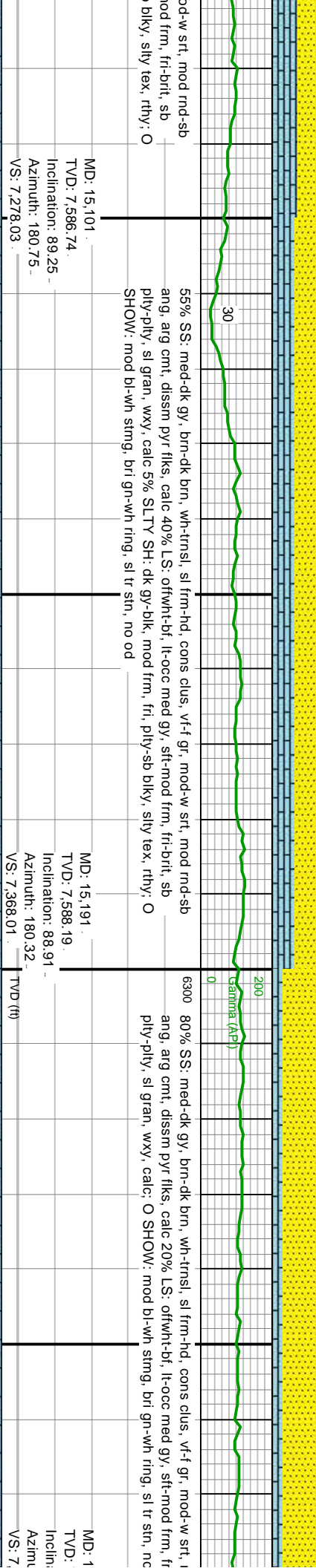
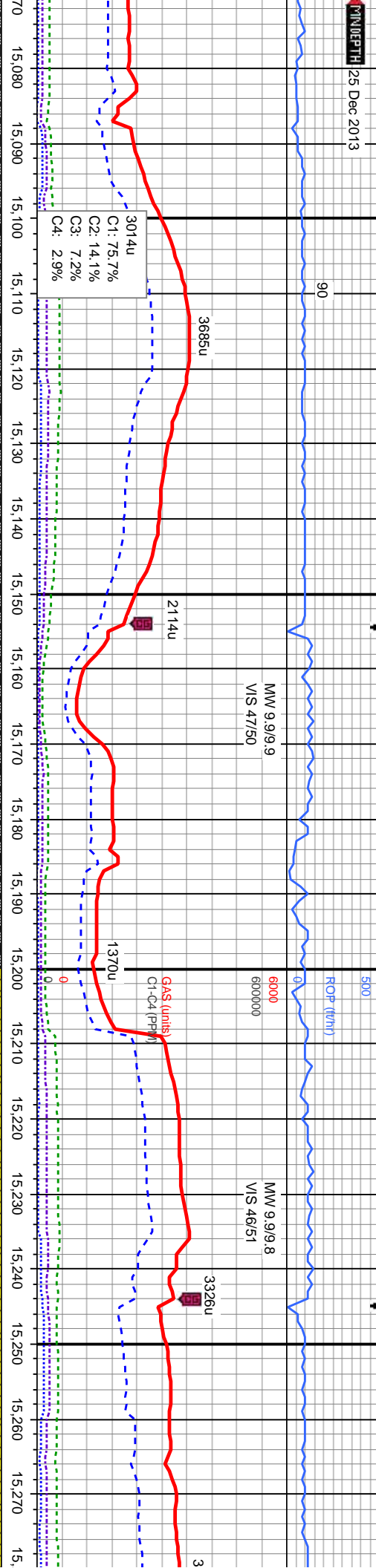


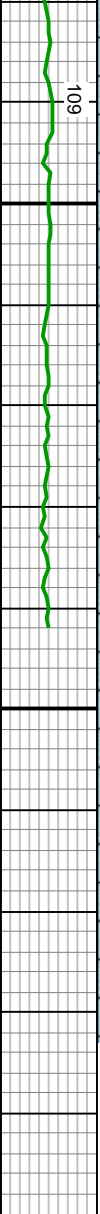
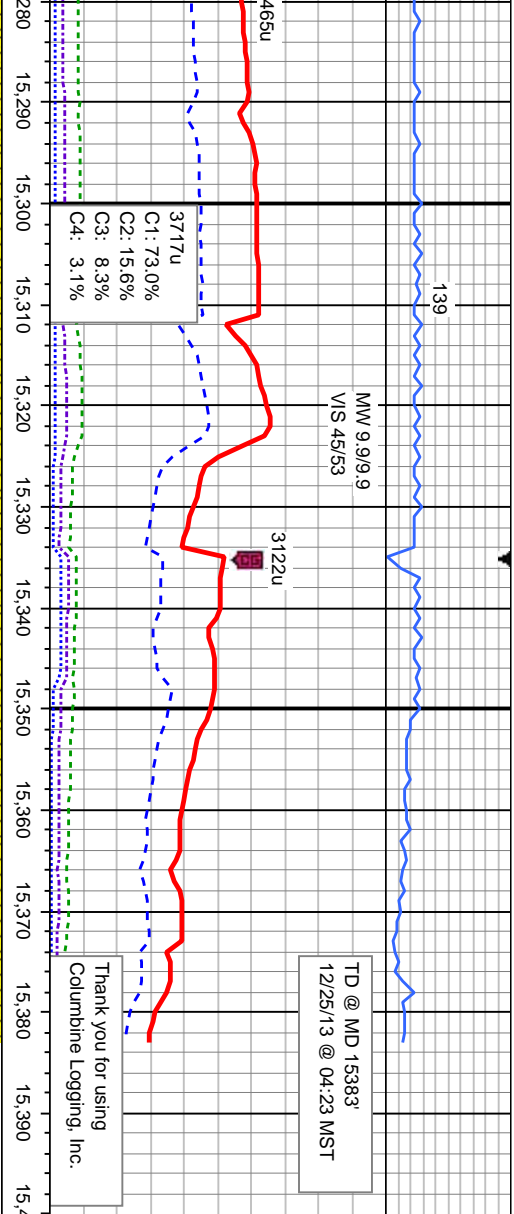












mod rnd-sb  
li-brit, sb  
od

85% SS; med-dk gy, brn-dk brn, wh-trns, sl frm-hd, cons clus, vt-f gr, mod-w  
srt, mod rnd-sb ang, arg cmt, dissn pyr fiks, calc 15% LS: offwht-bf, lt-occ  
med gy, sft-mod frm, fri-brit, sb ply-ply, sl gran, wxy, calc; O SHOW: mod  
bl-wh stng, bri gn-wh ring, sl tr stn, no od

MD: 15,326  
TVD: 7,590.88  
Inclination: 88.85  
Azimuth: 180.93  
VS: 7,502.9

MD: 15,383  
TVD: 7,590.88  
Inclination: 88.85  
Azimuth: 180.93

5,281  
7,589.97  
ation: 88.82  
lth: 178.23  
457.92

