

**EMPIRICA***The Surface Logging Company*

**Scale:** 5" / 100'  
**Measured Depth Log**

**Well Name** Renninger 30-7-2

**Location** SW NE S30, 8S, 91W

**State** Colorado

**County** Mesa County

**Country** USA

**Rig Number** Patterson-UTI 308

**API Number** 15-077-10210

**AFE #** 13173554

**Region** Rocky Mountain

**Field** Groundhog Gulch Unit

**Spud Date** 8/29/2013

**Drilling Completed** 9/21/2013

**Surface Coordinates** Lat: 39.334182  
Long: -107.593589

**Bottom Hole Coordinat...** Lat: 39.334553  
Long: -107.592703

**Ground Elevation** 7247.5'

**K.B. Elevation** 7270.5'

**Logged Interval** 5000' **To** 11540'

**Total Depth** 11540'

**Formation** Laminated Siltstone Formation

**Type of Drilling Fluid** WBM - 11,540'

## Operator

**Company** Encana Corporation

**Address** 370 17th Street  
Suite 1700,  
Denver, CO 80202

## Geologist

**Name** Mark Gross / Hana Waldhauserova / Justin Perry

**Company** Empirica

**Address** 600 17th Street  
Suite 725  
Denver, CO 80202

## Other

Comments

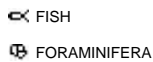
Rig Up Date: 09/05/2013  
TD Well: 09/21/2013  
Rig Down Date: 09/24/2013

## Rock Types



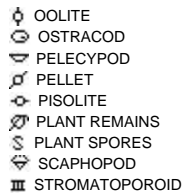
## Accessories

### Fossils



F FOSSIL

GASTROPOD

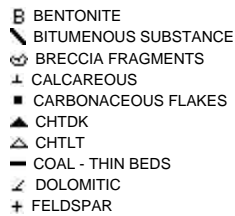


### Minerals

ANHYDRITIC

ARGILLACEOUS

ARGILLITE GRAIN



FERRUGINOUS PELLETT

FERRUGINOUS

GLAUCONITE

GYPSIFEROUS



SILTY

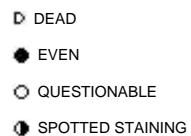
TUFFACEOUS

### Stringer



## Other Symbols

### Oil Show



### Porosity

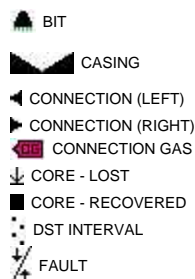


ORGANIC

PINPOINT

VUGGY

### Engineering



FORMATION TOP

GAS SHOW

MN DEPTH

NORMAL FAULT

OIL SHOW

OVERTURNED STRATA

REVERSE FAULT

SIDEWALL CORE (LEFT)

SIDEWALL CORE (RIGHT)

SLIDE

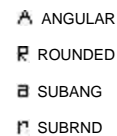
SURVEY

TRIP GAS

WIRELINE TESTED - LEFT

WIRELINE TESTED - RT

### Rounding



### Textures



LITHOGRAPHIC

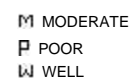
MICROXLN

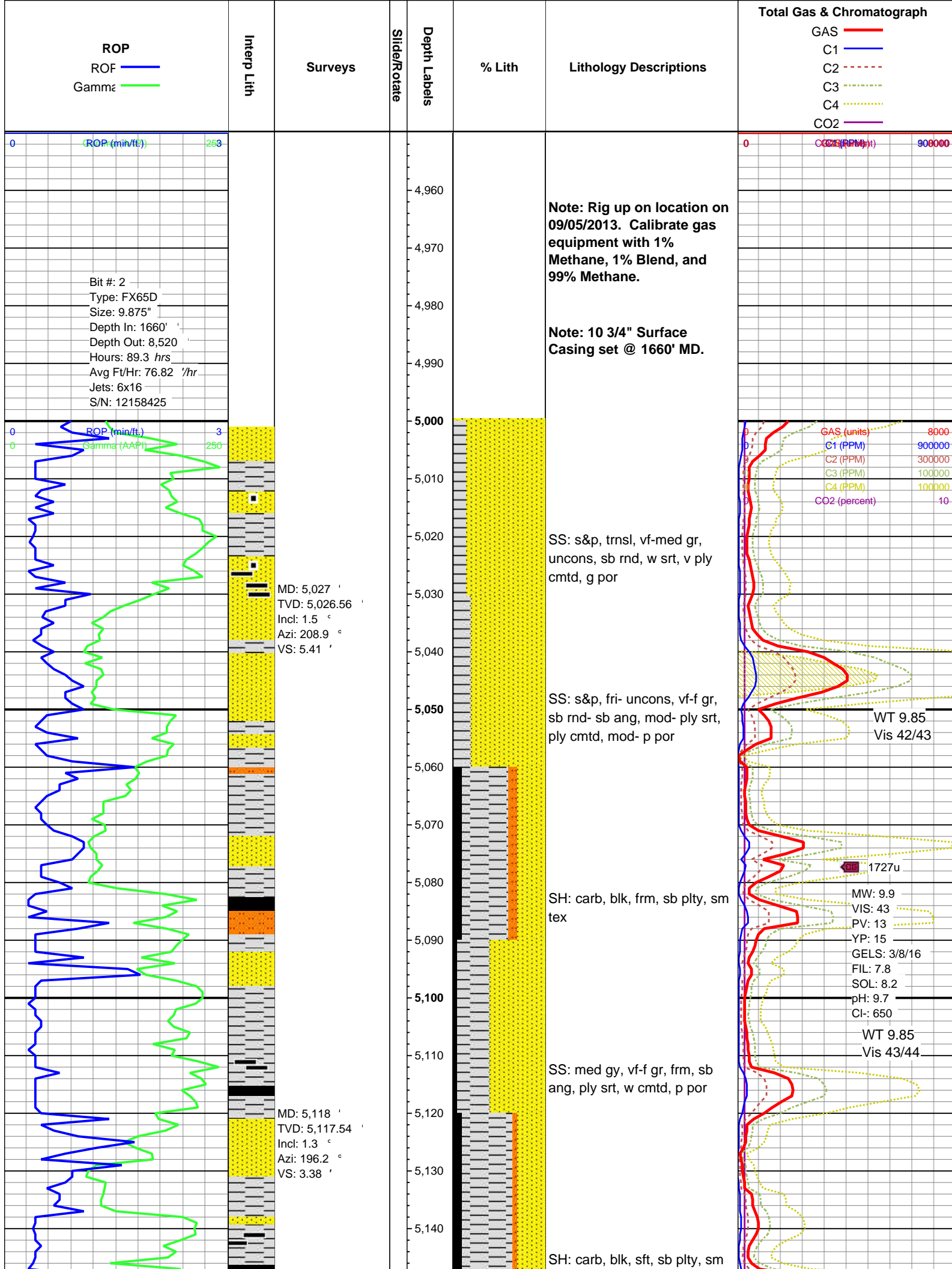
MUDSTONE

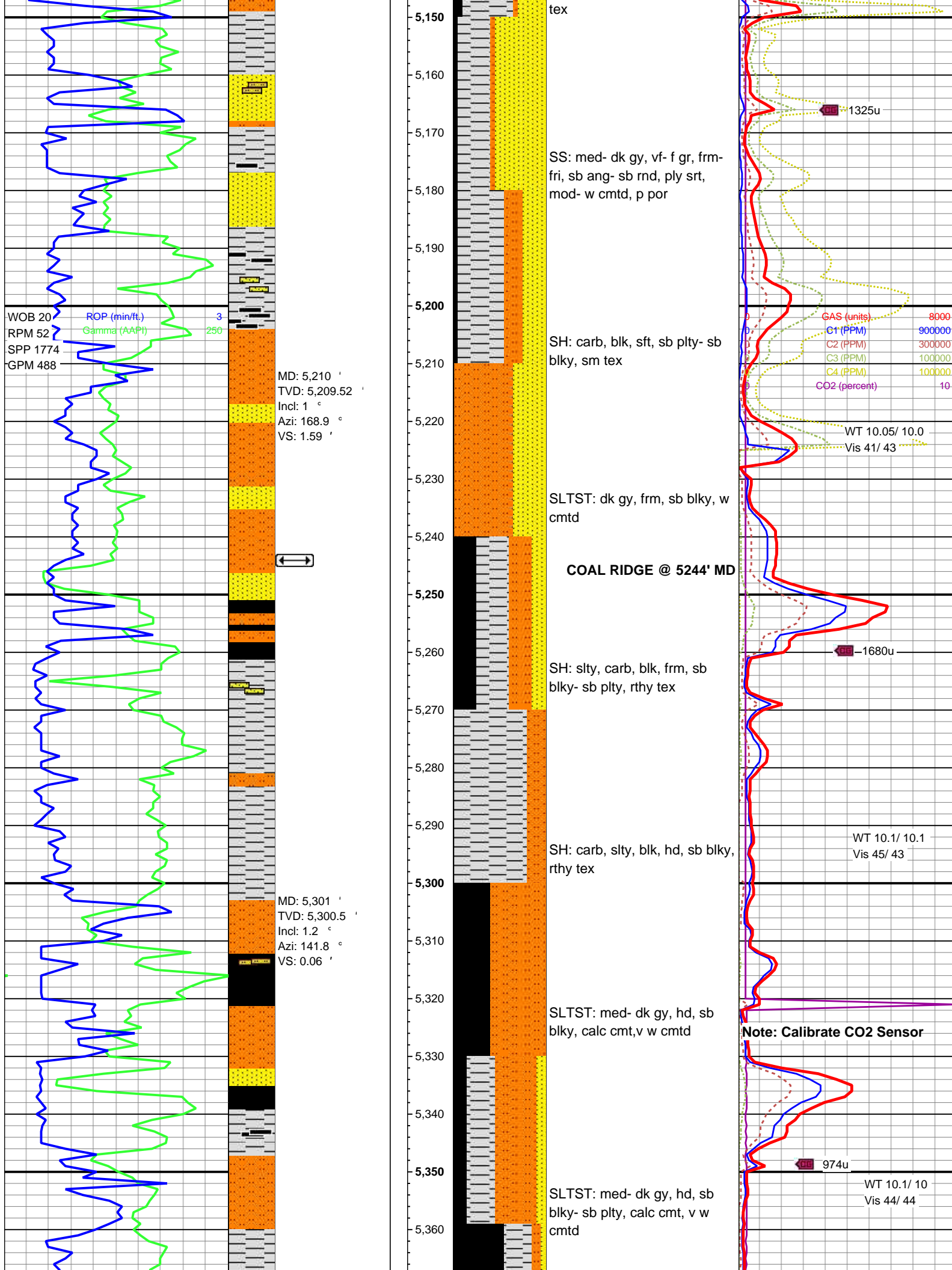
PACKSTONE

WACKESTONE

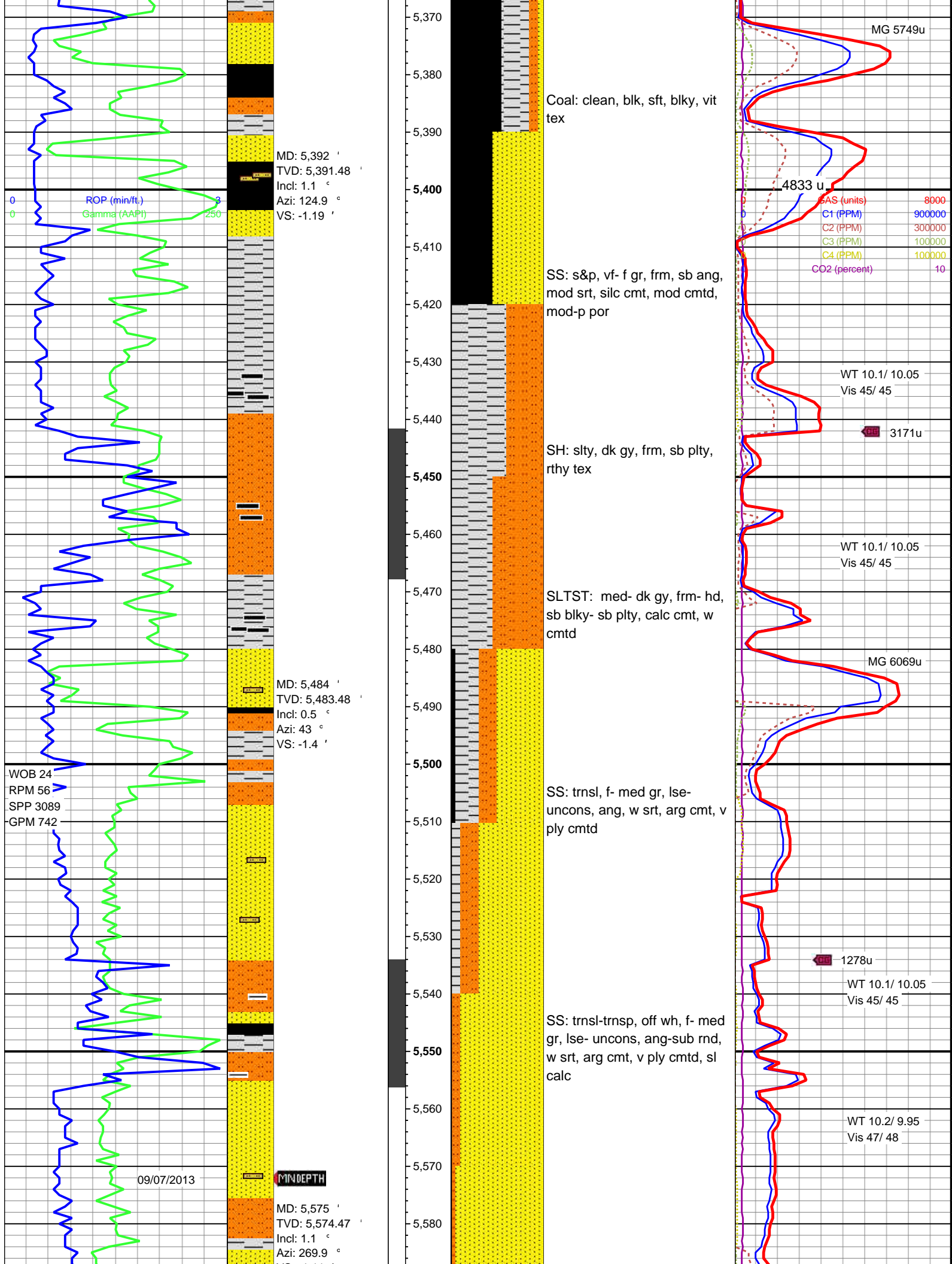
### Sorting

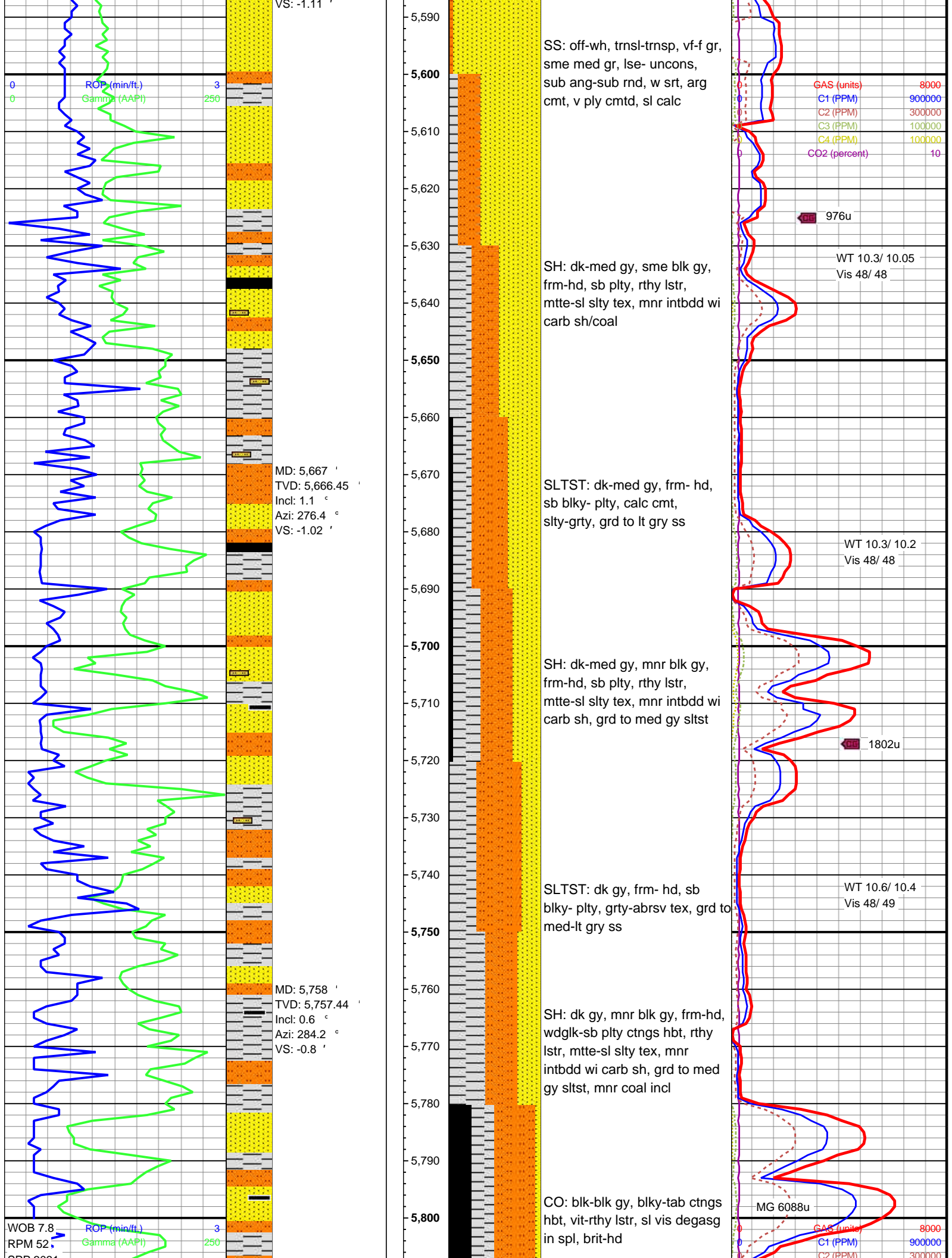




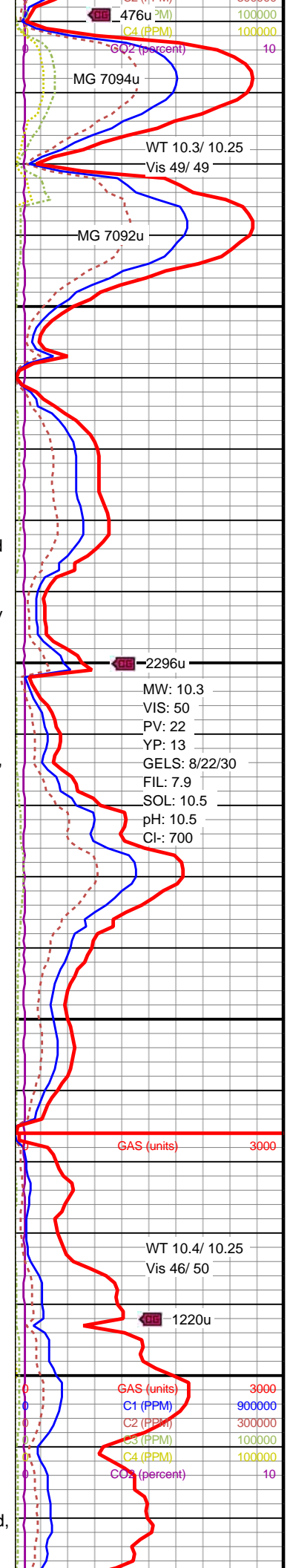
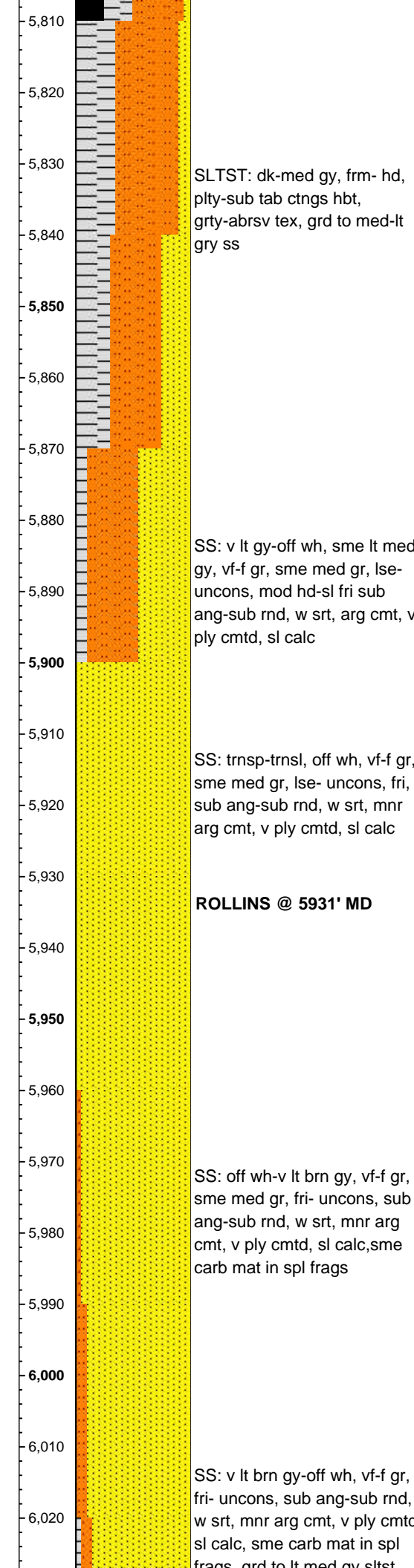
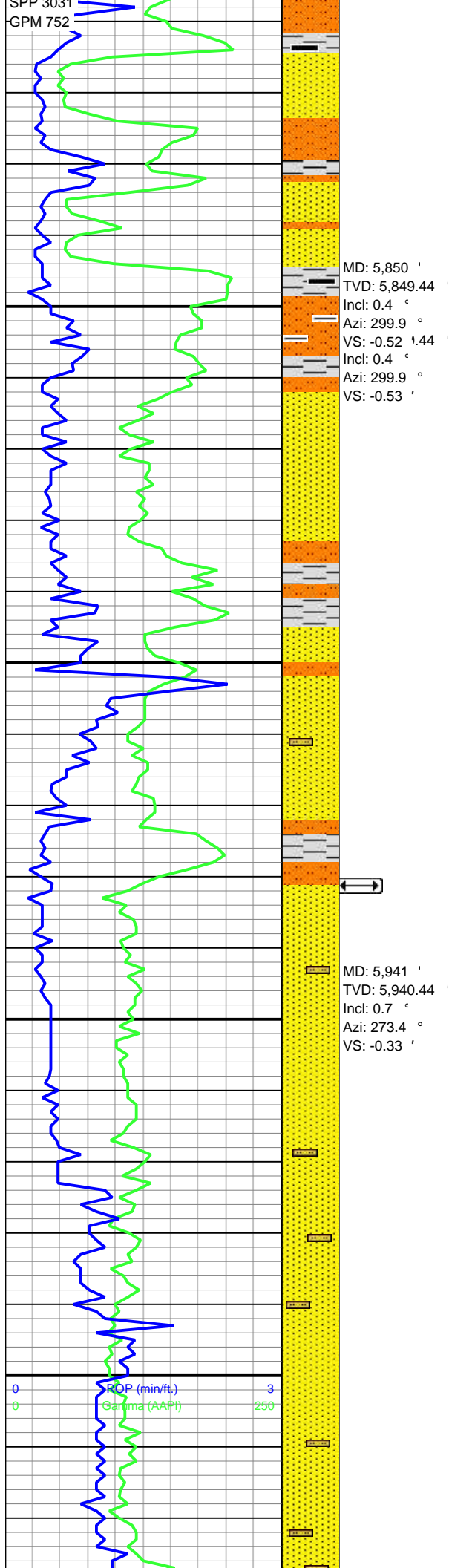


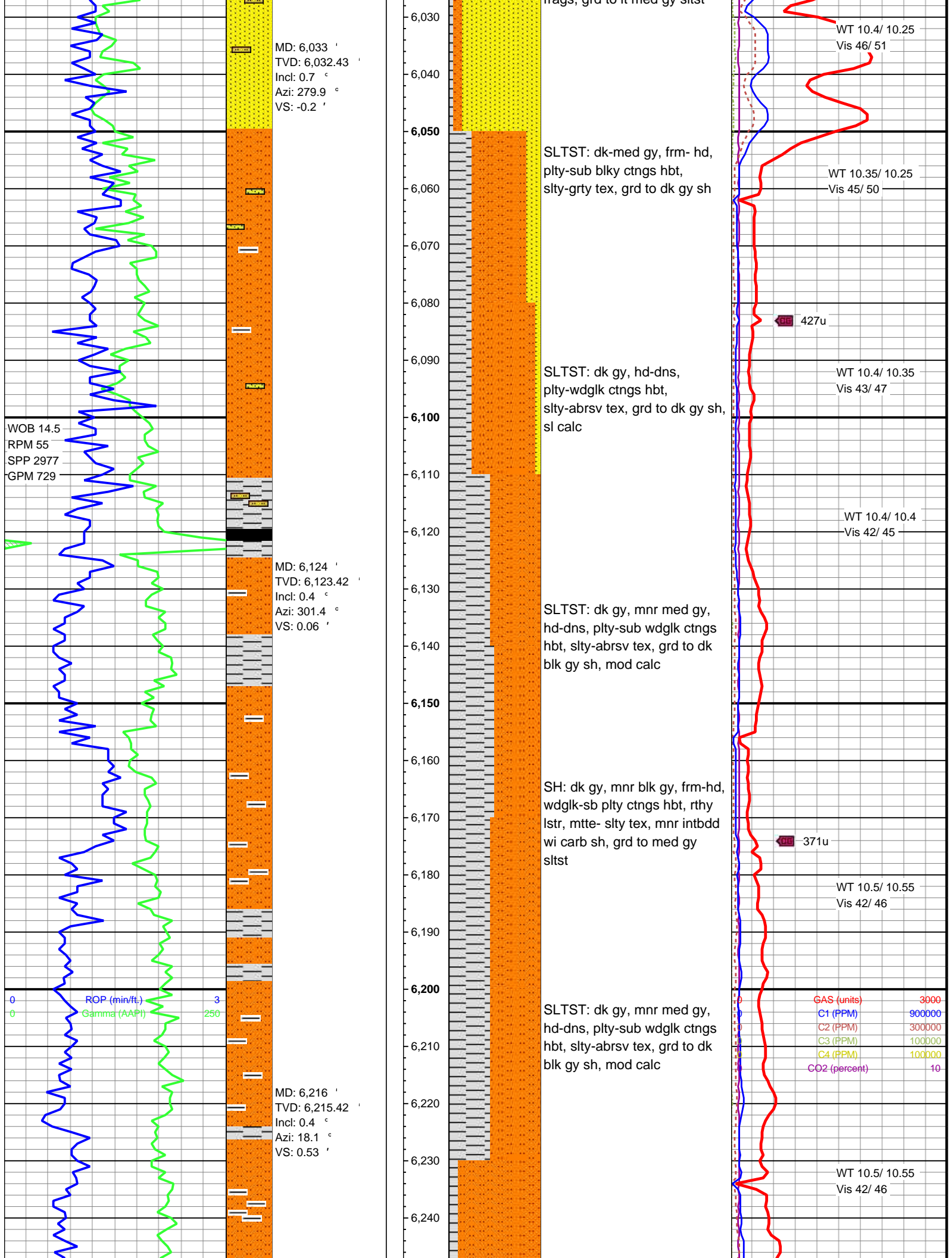




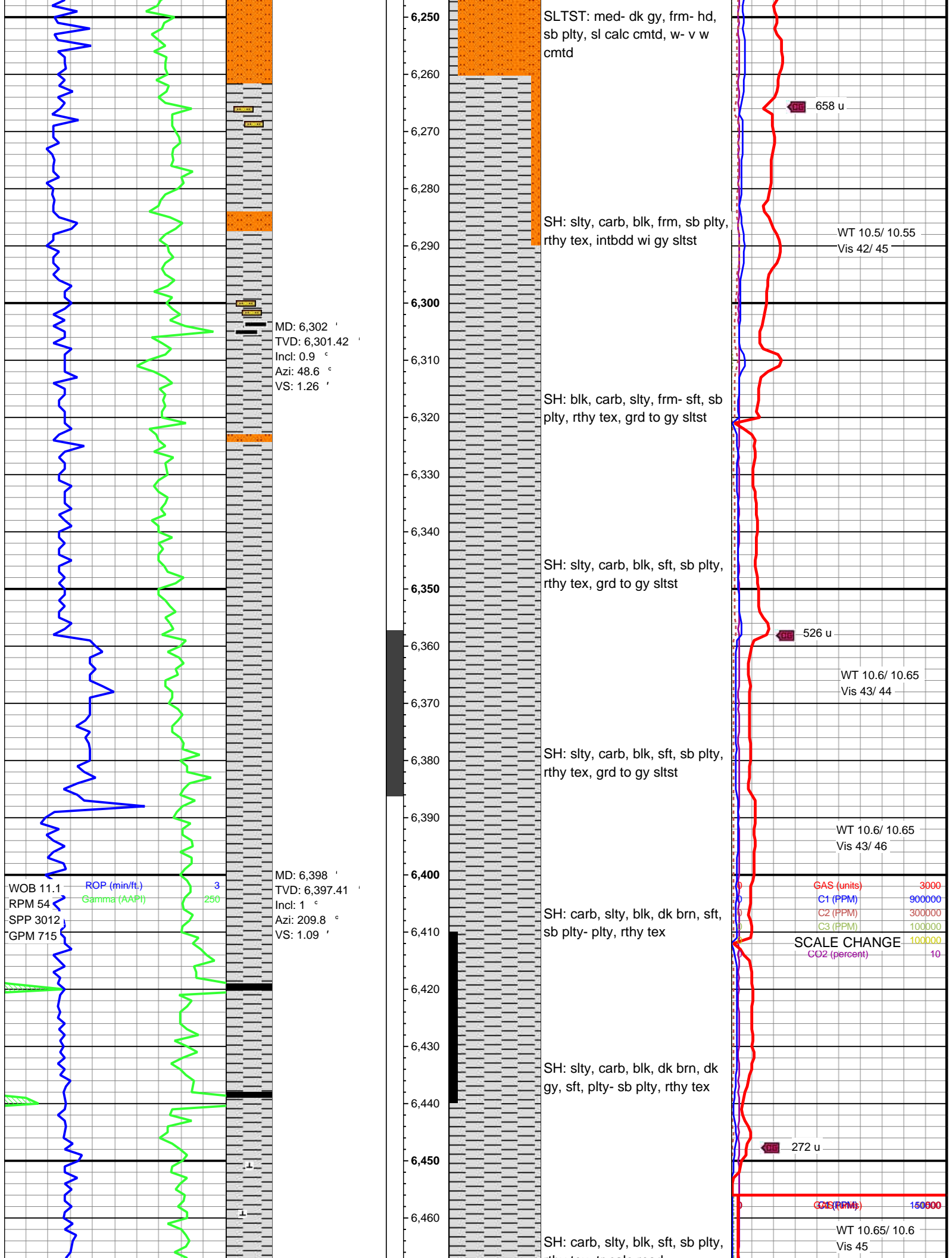


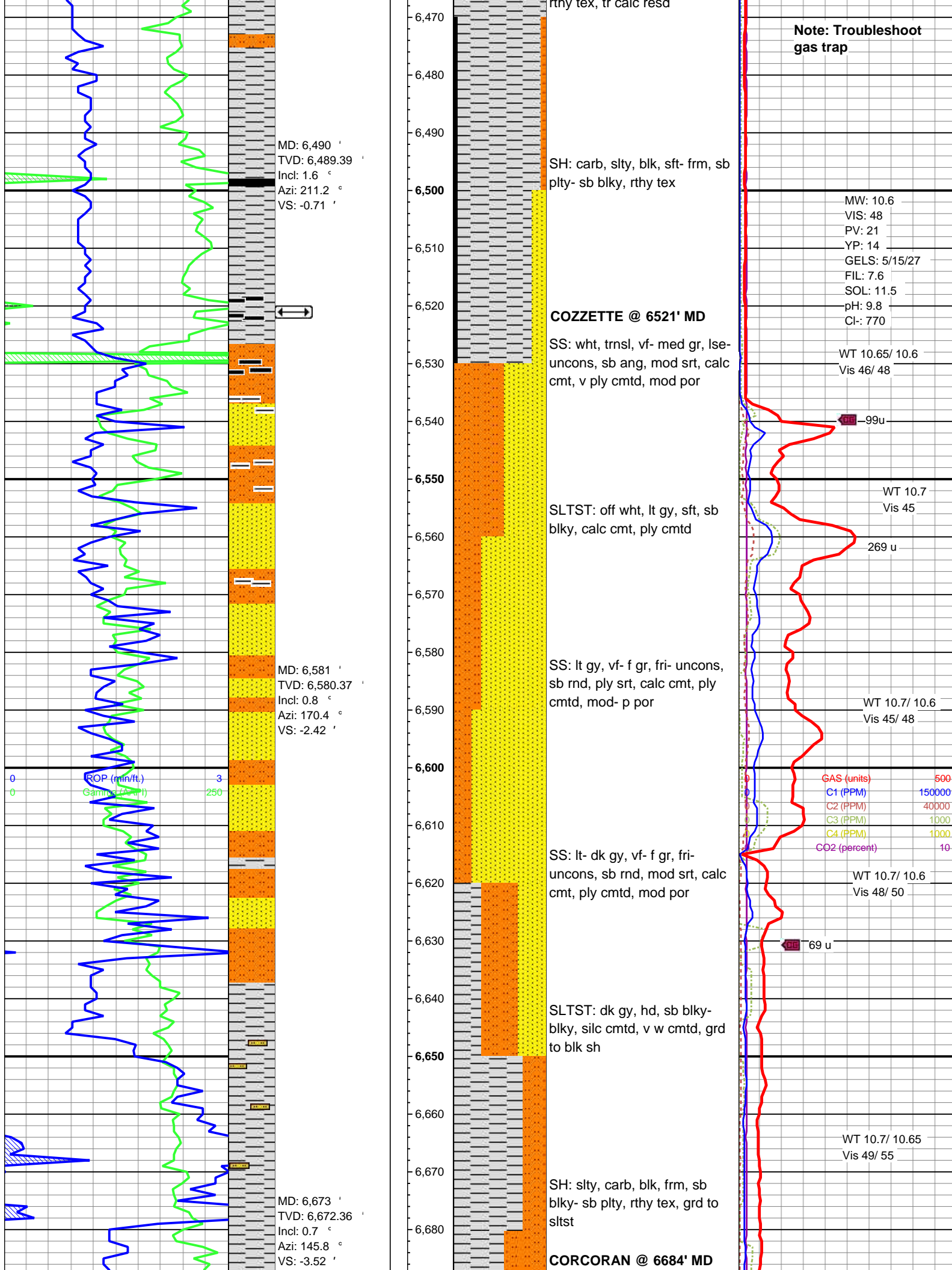


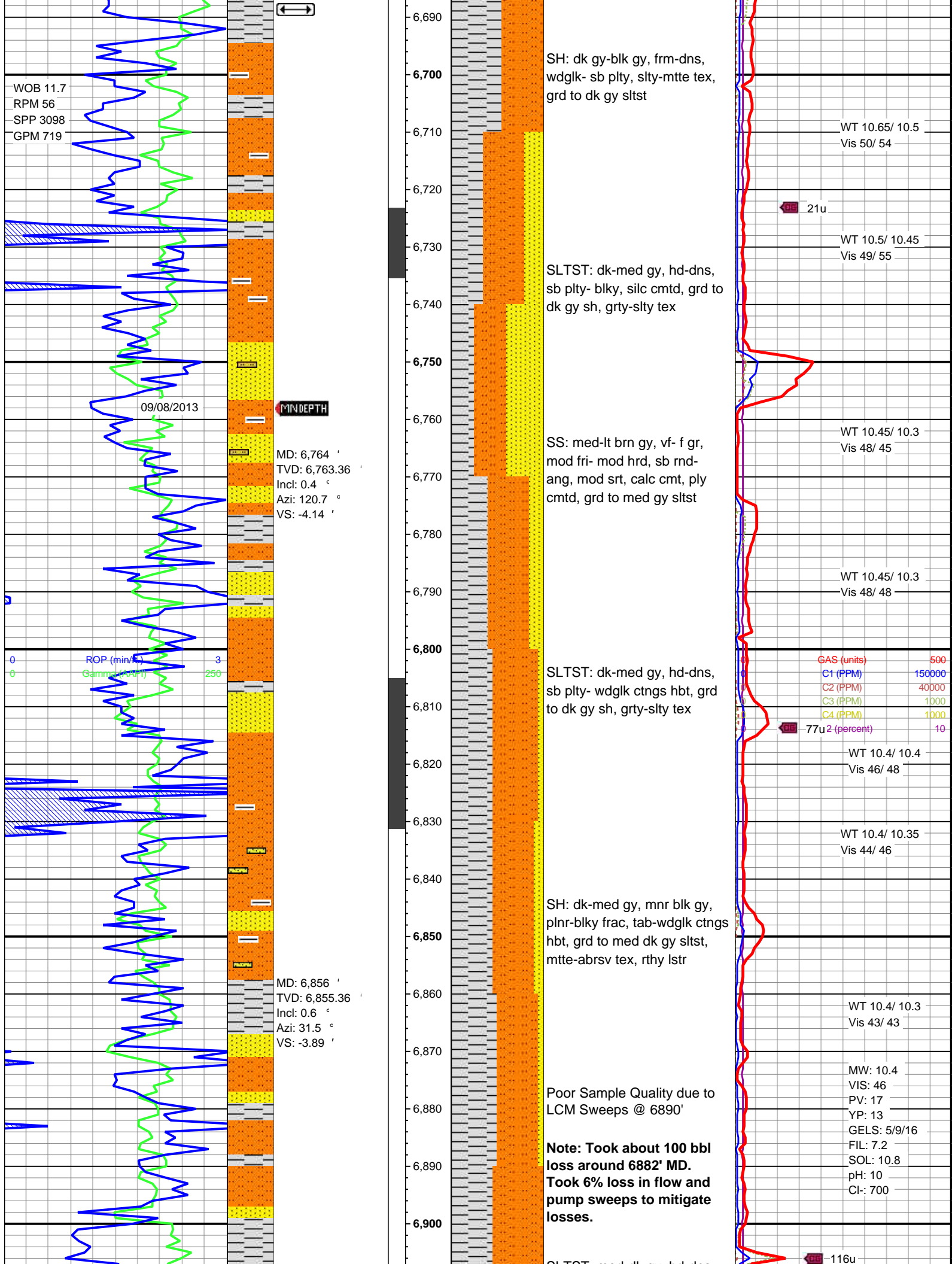




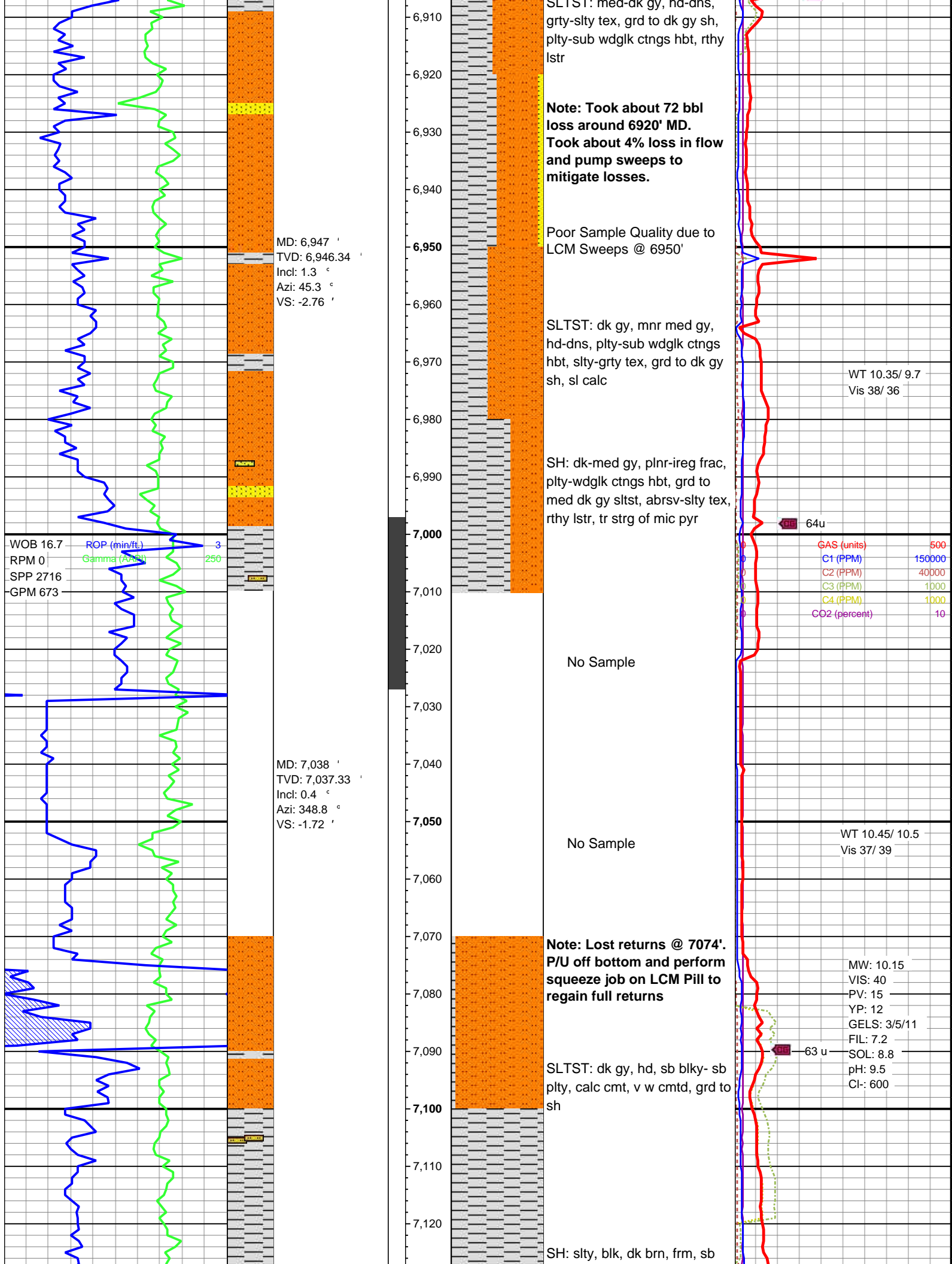


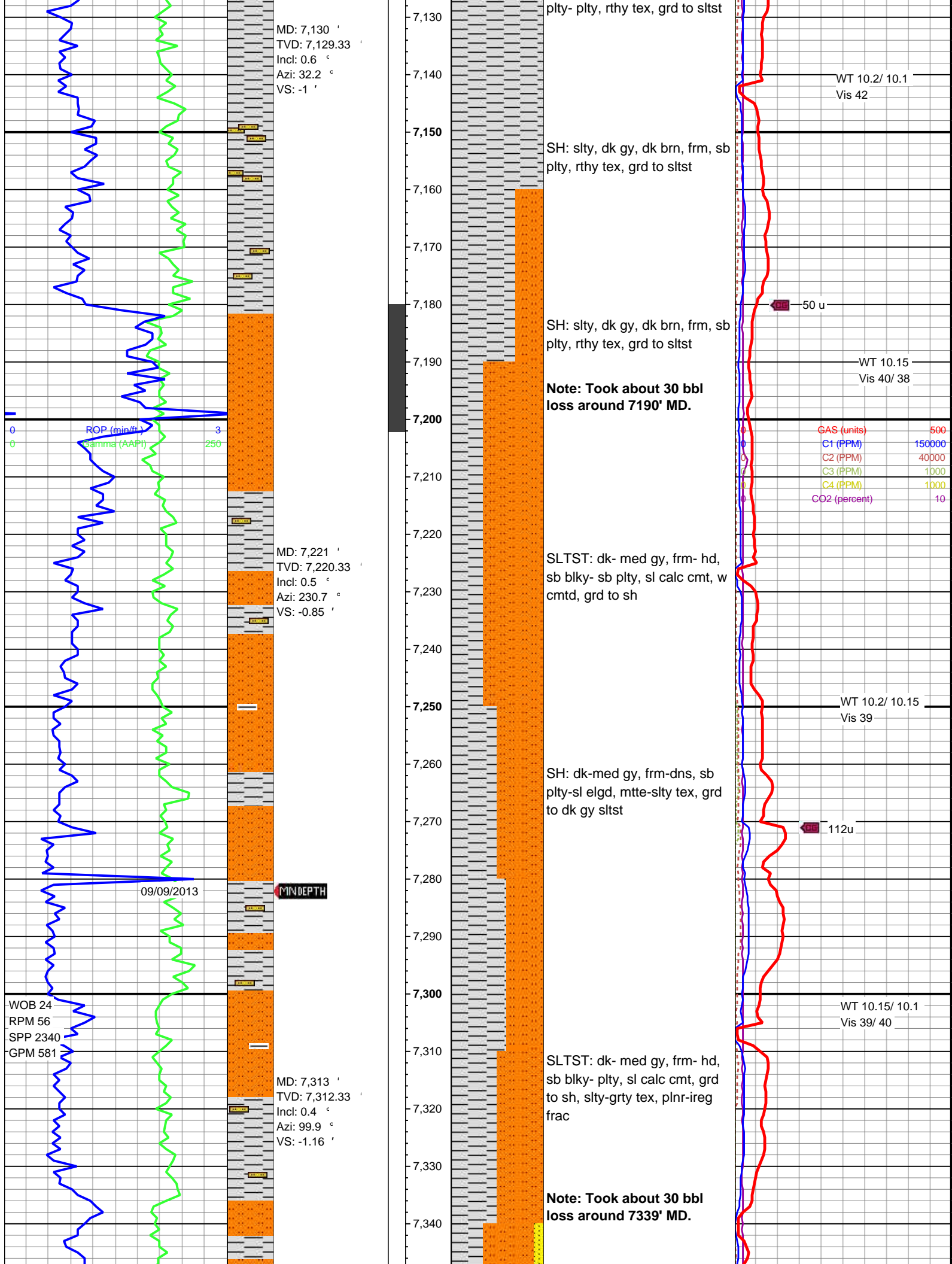


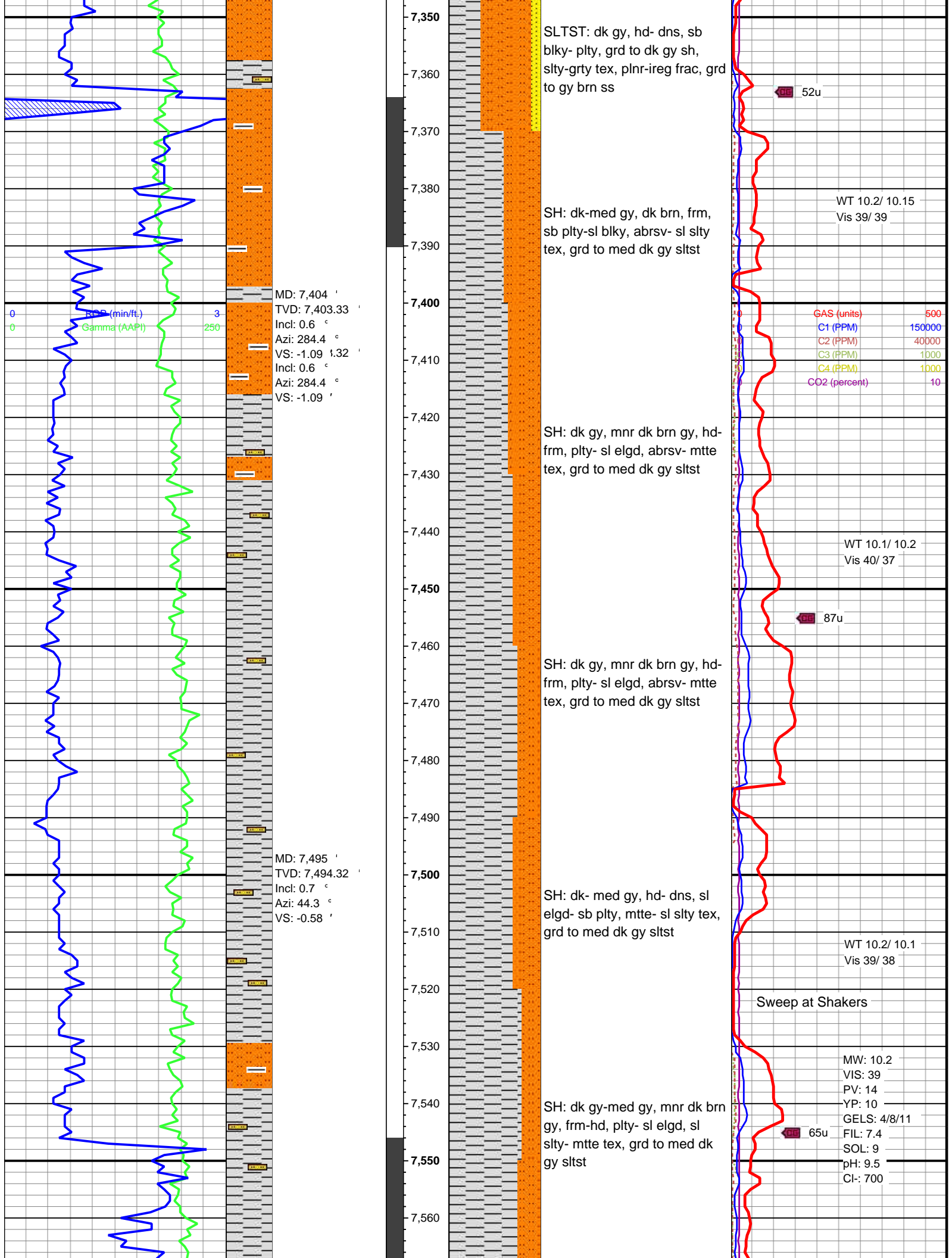




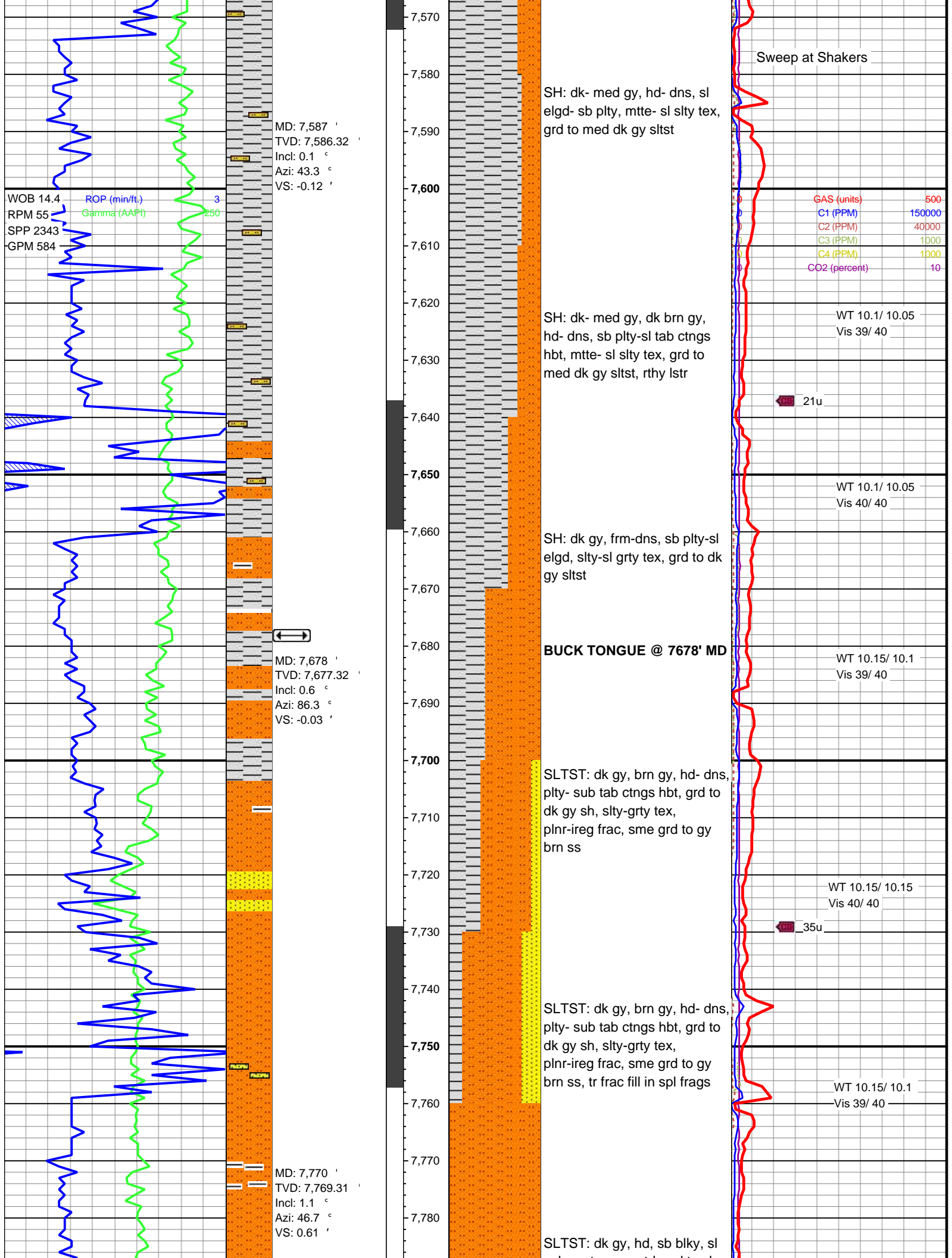


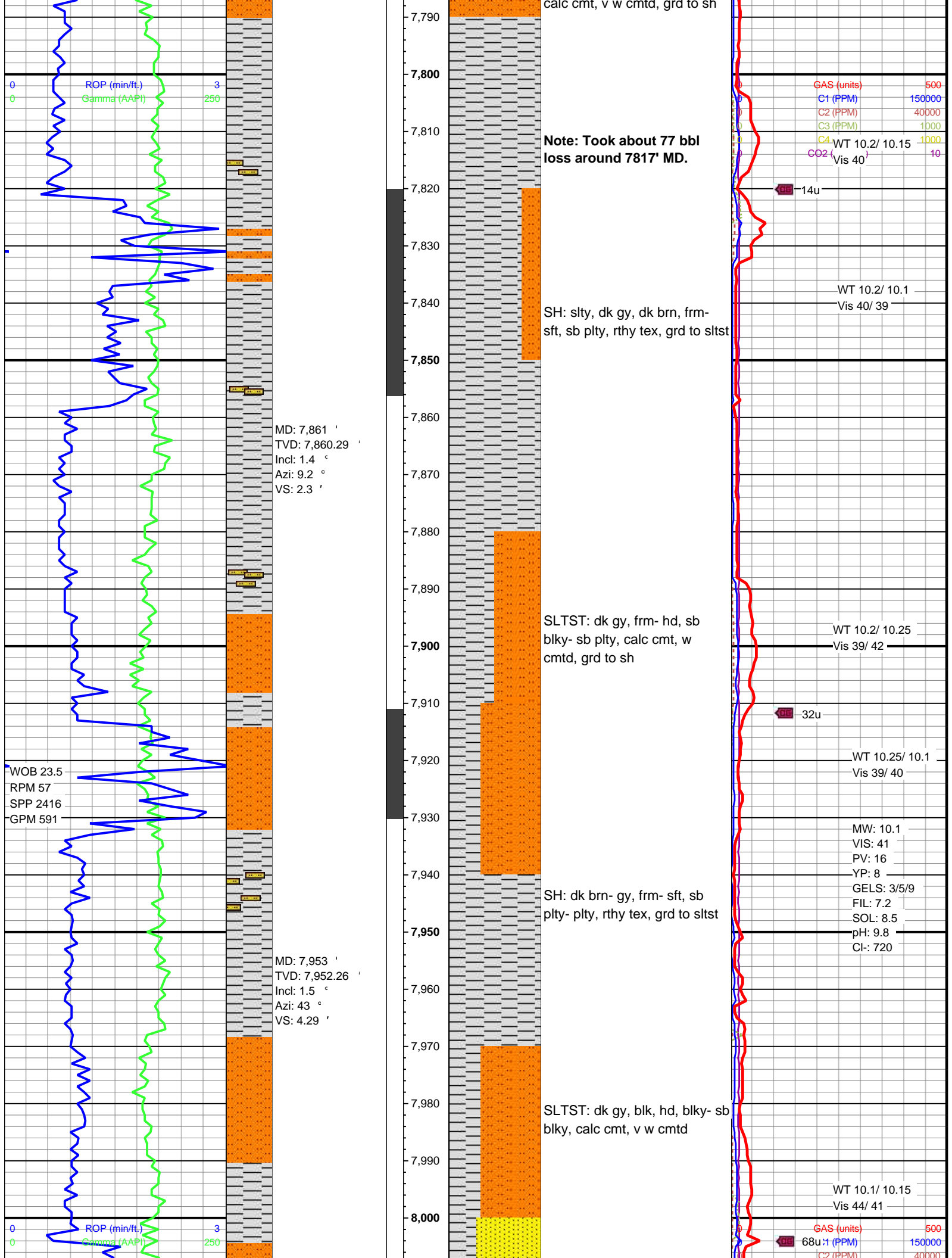


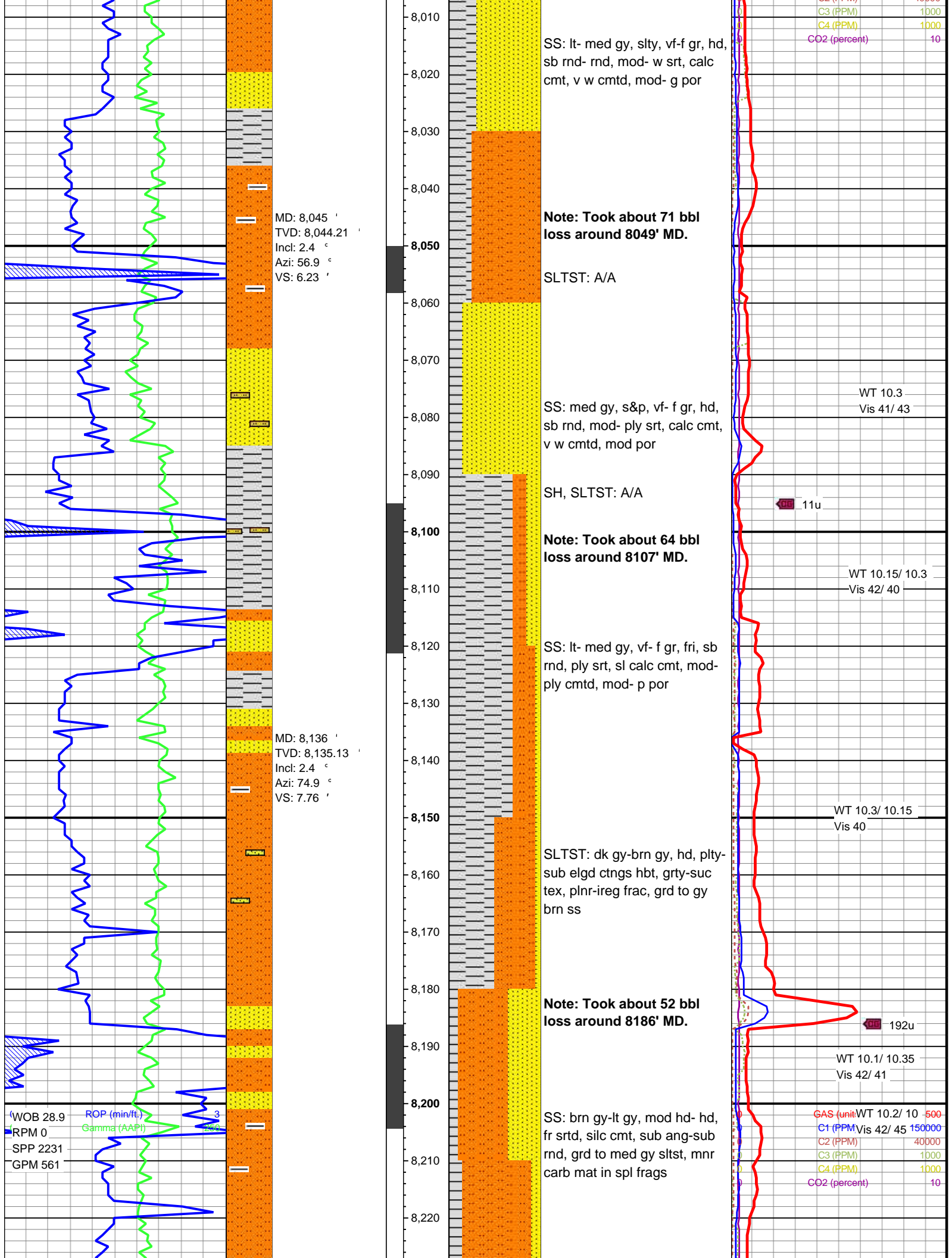




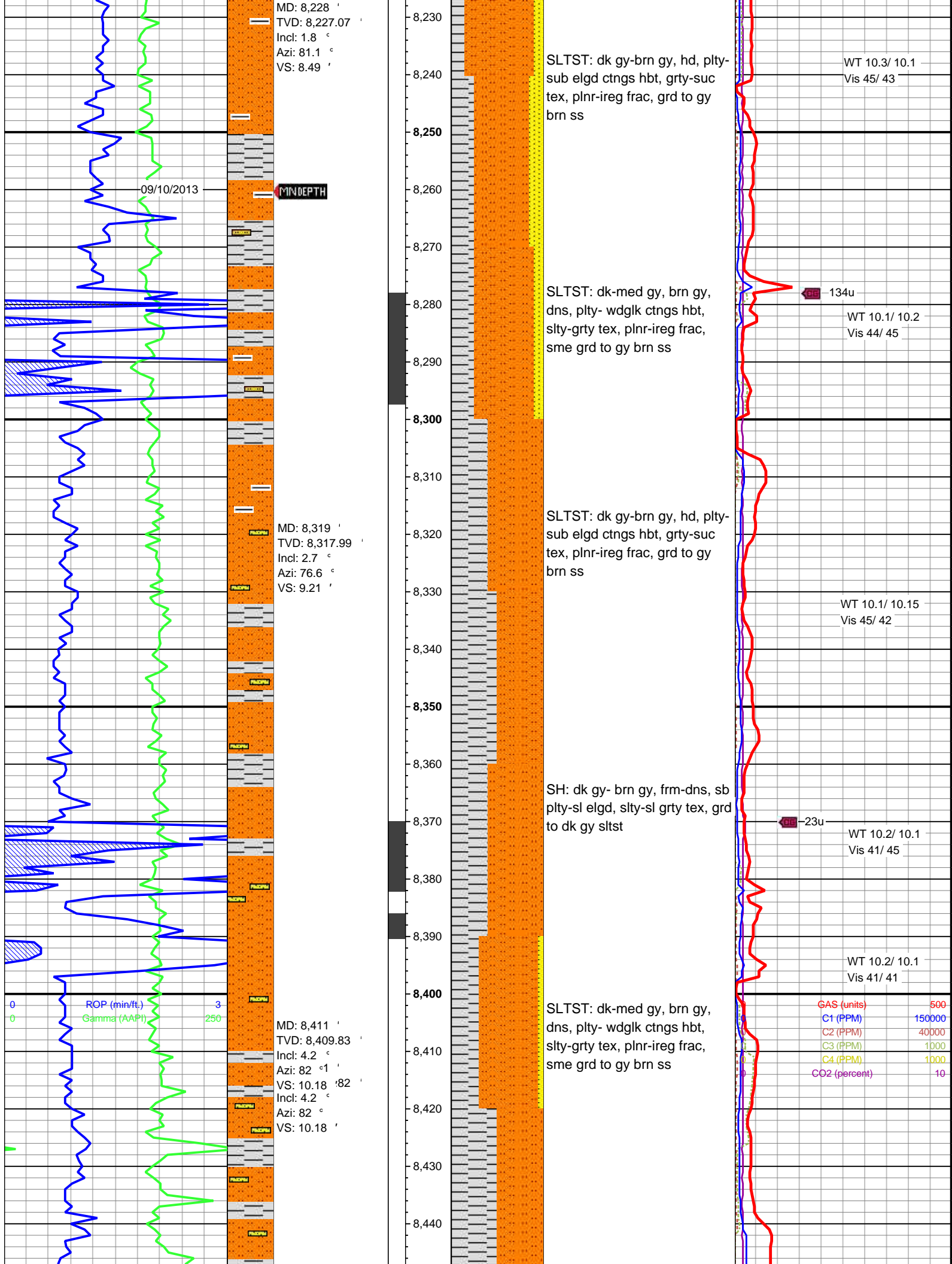


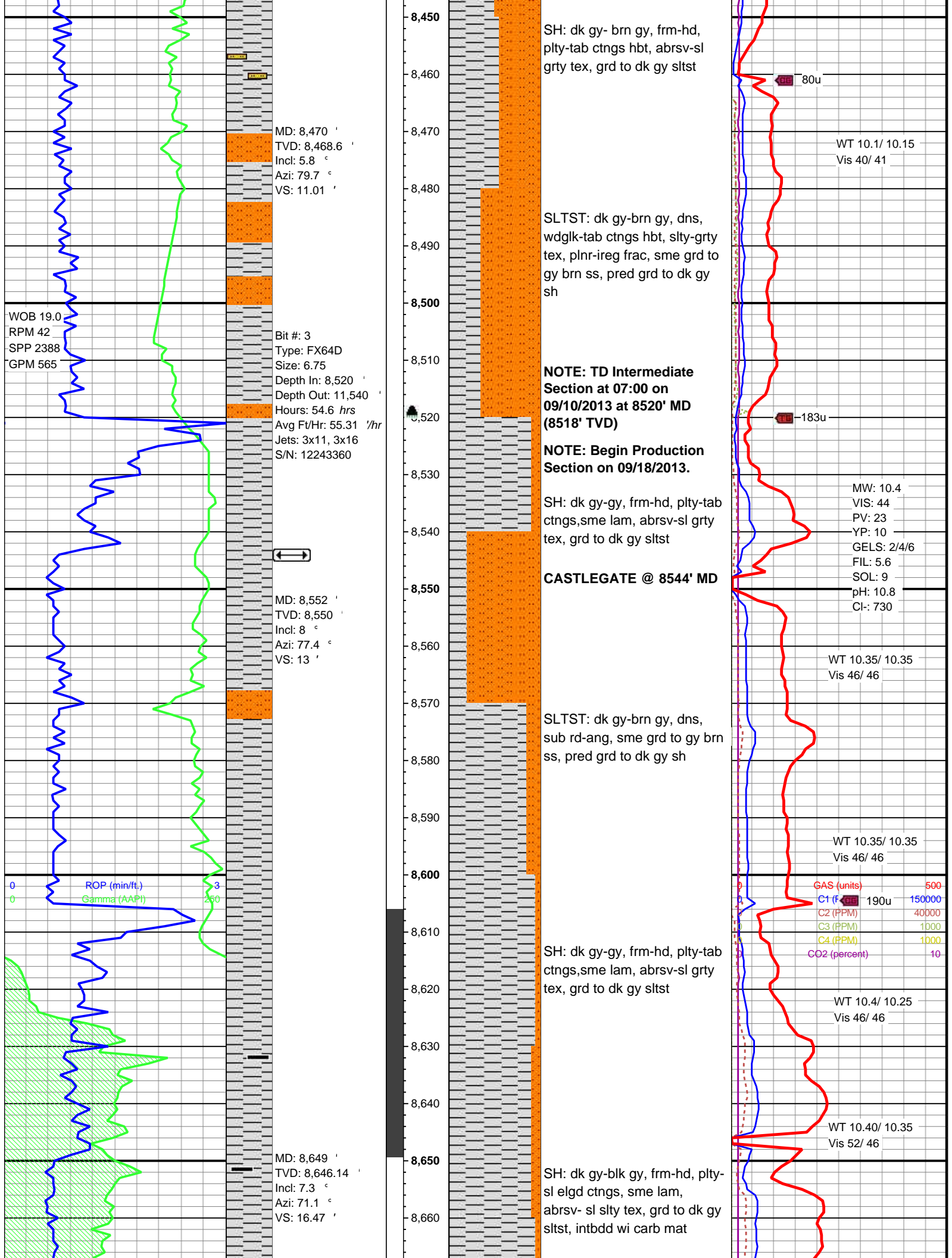


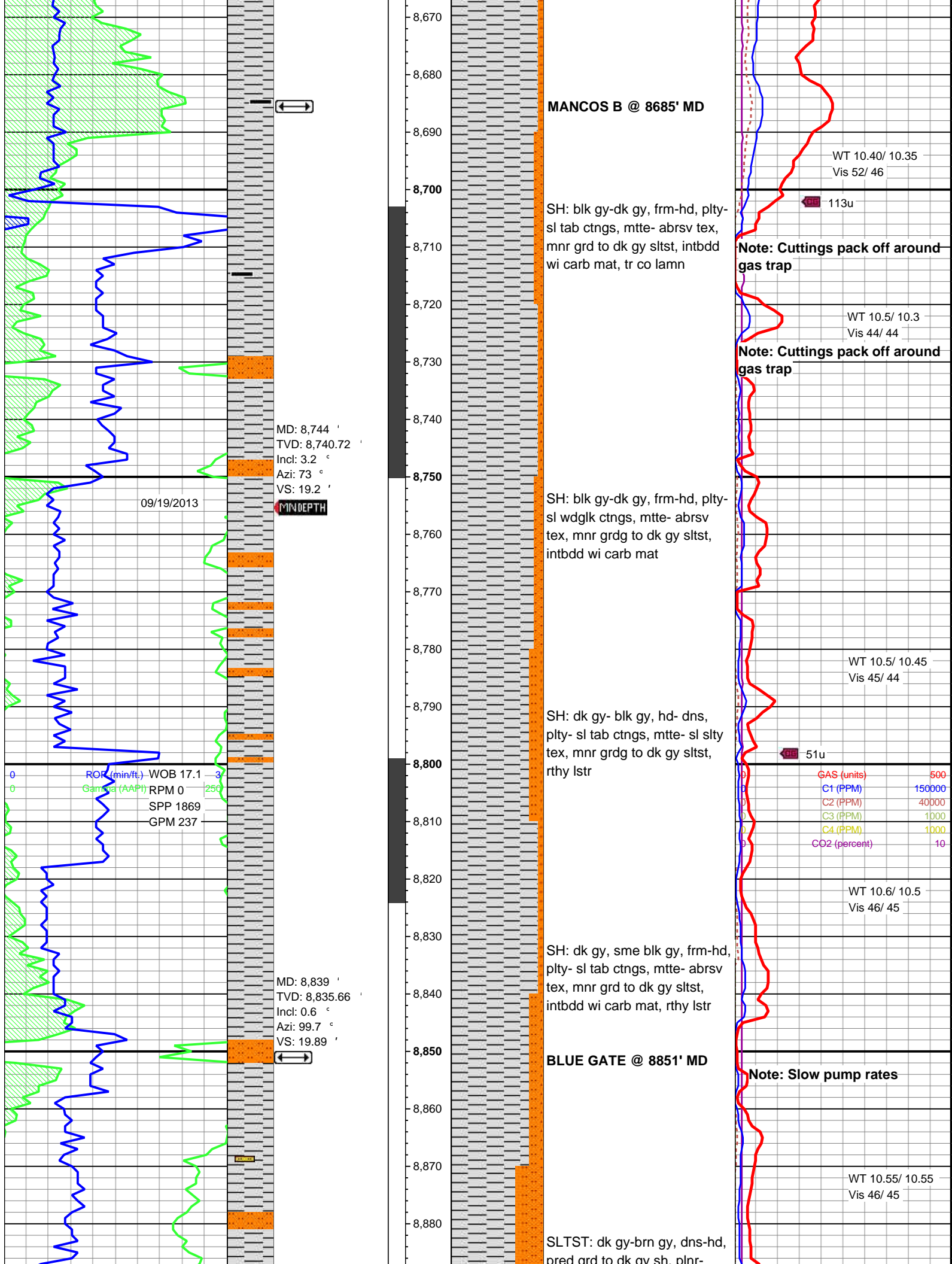




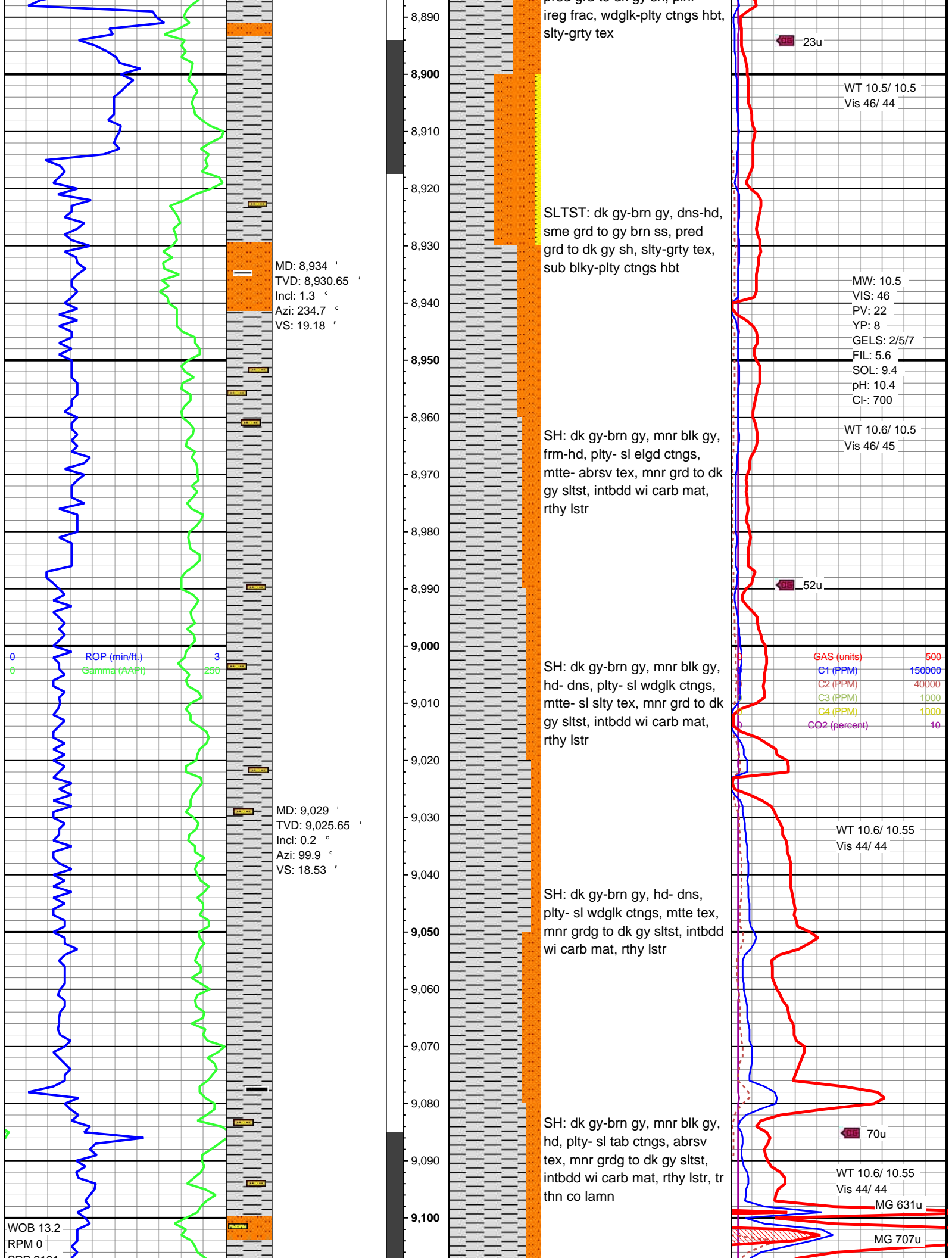


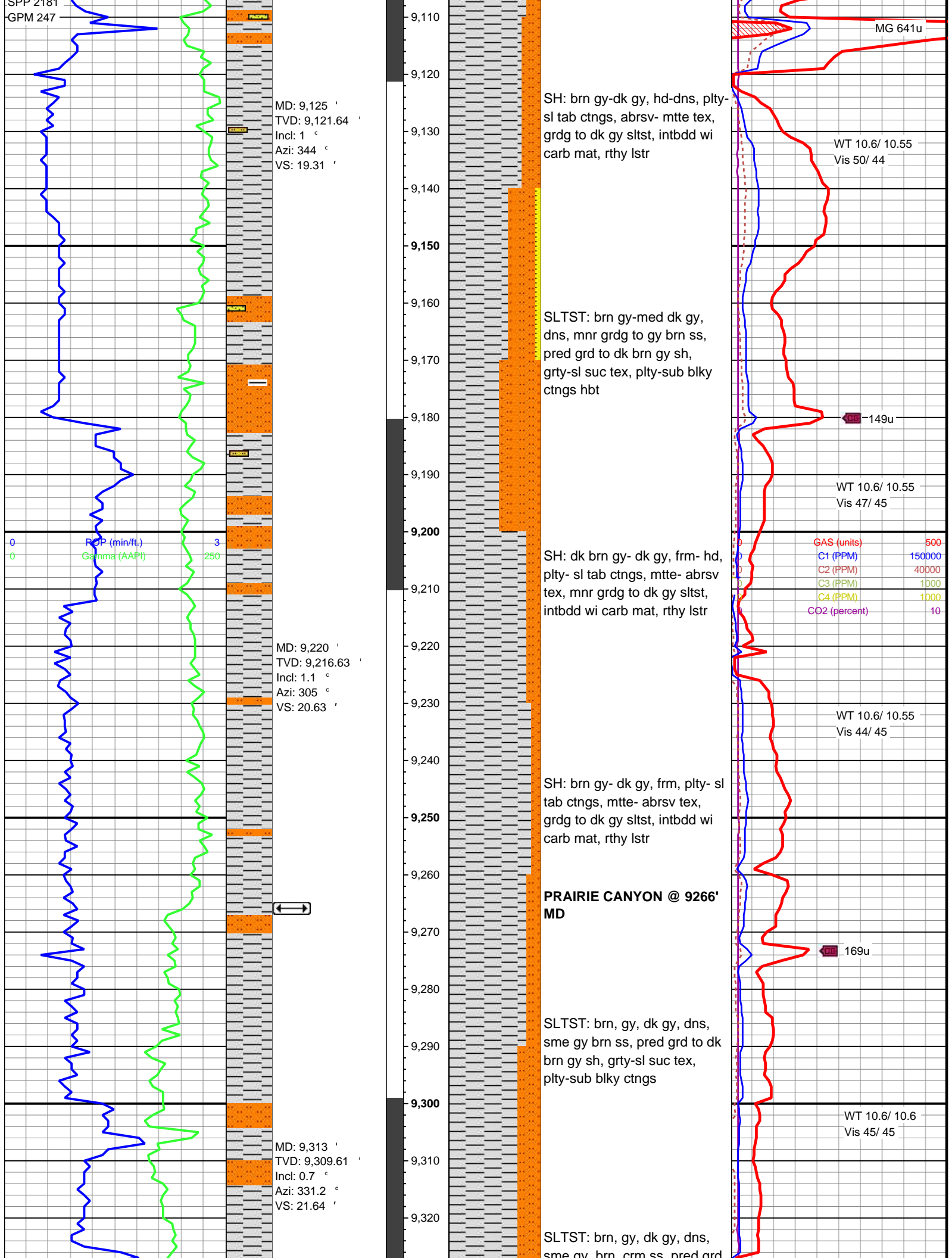


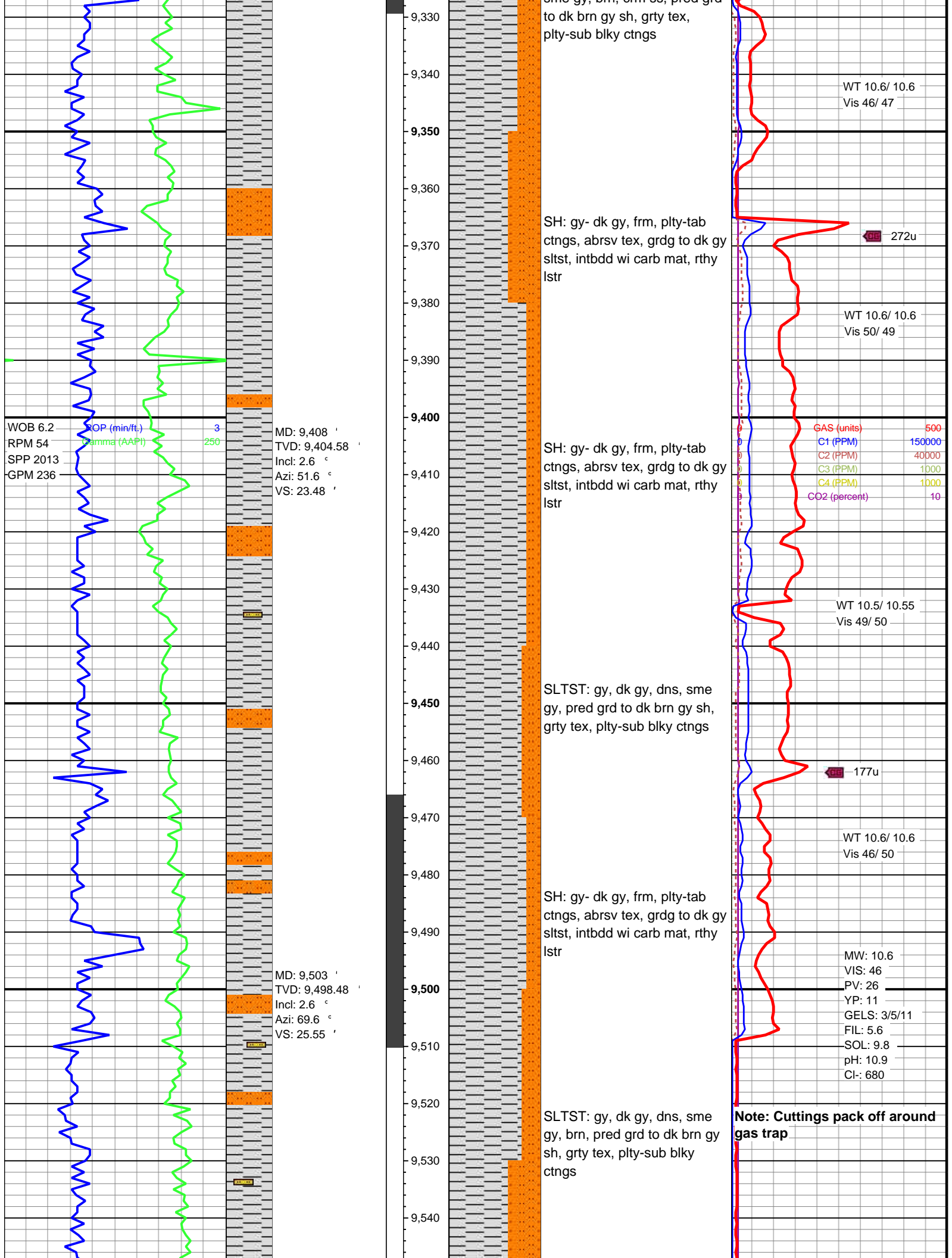




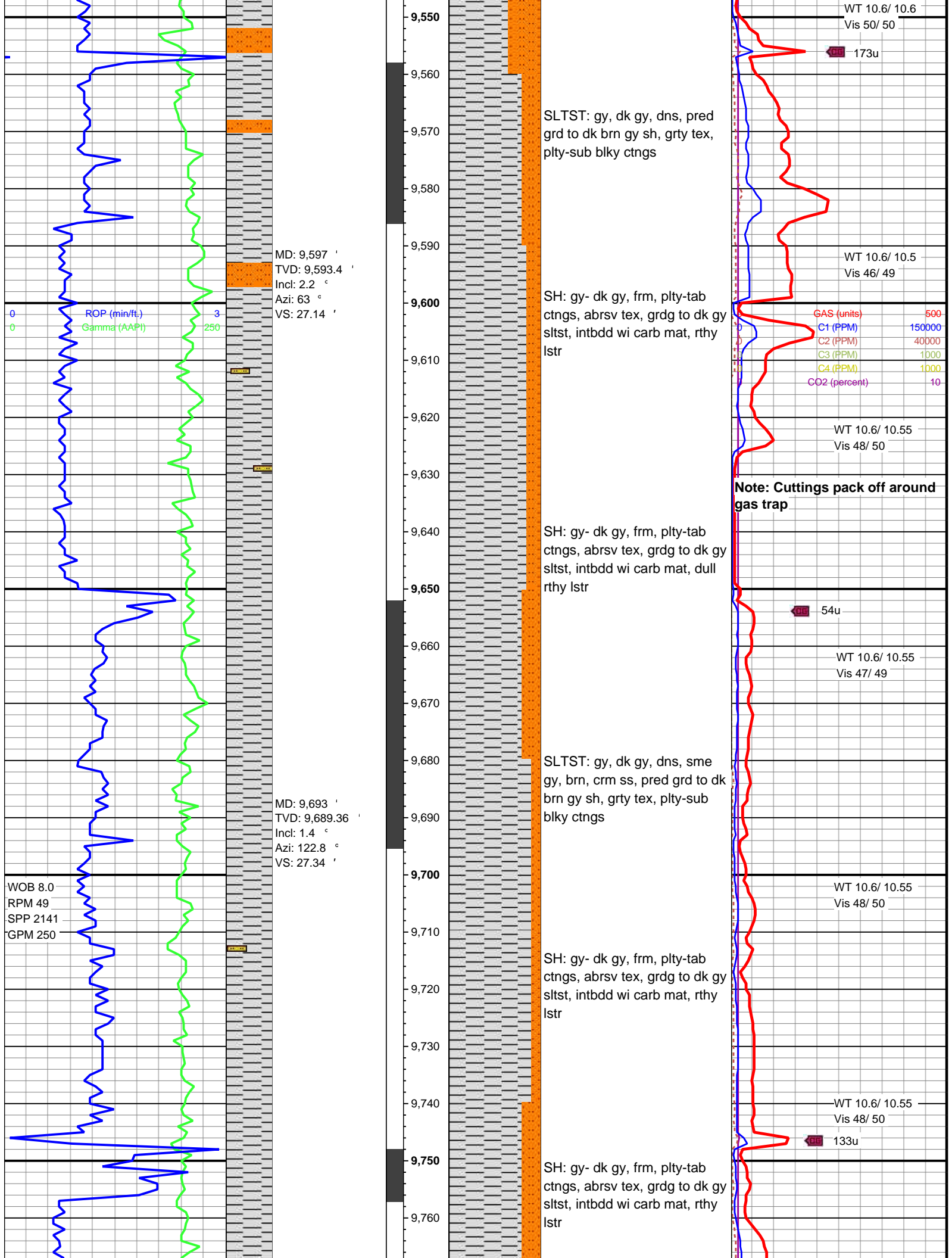


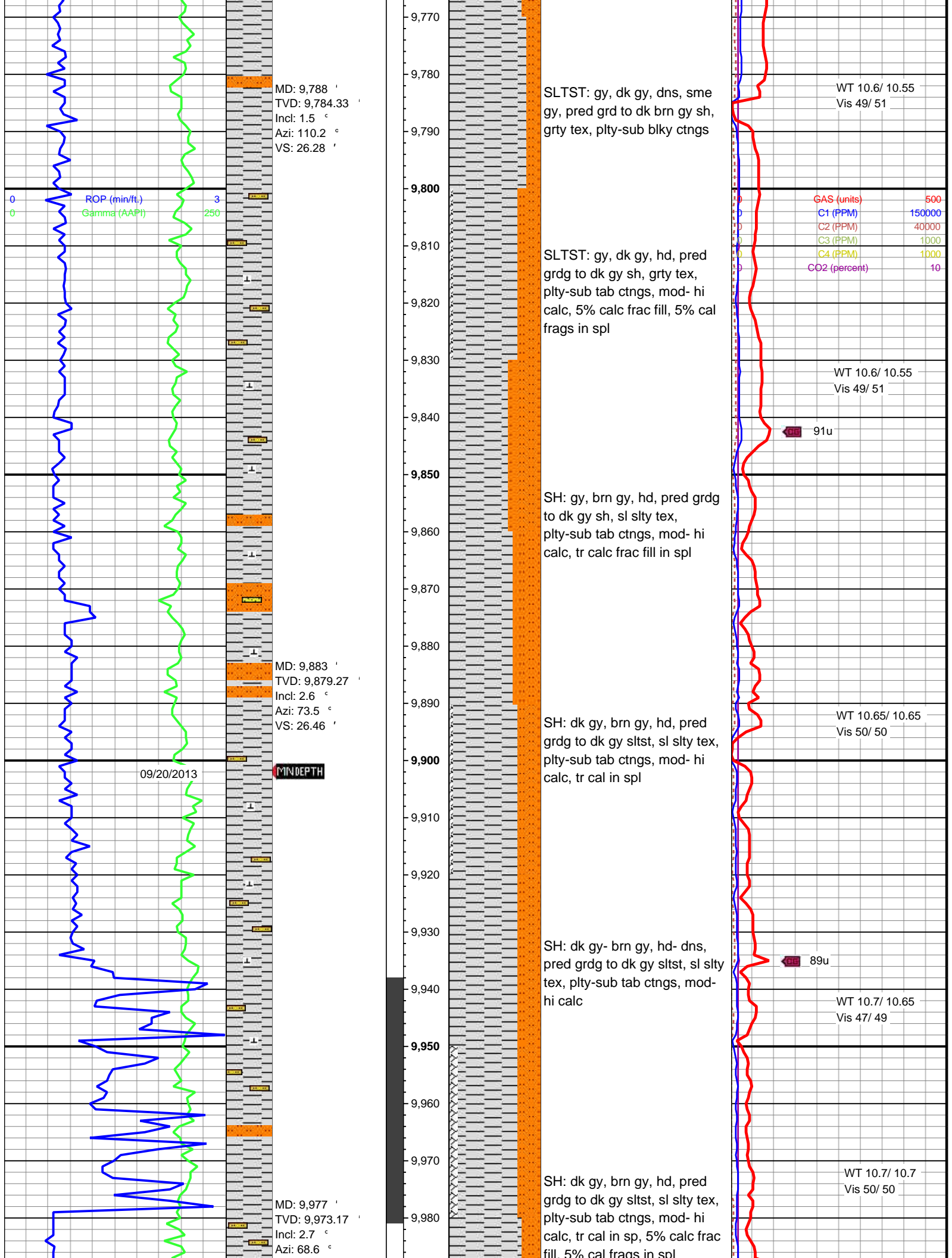


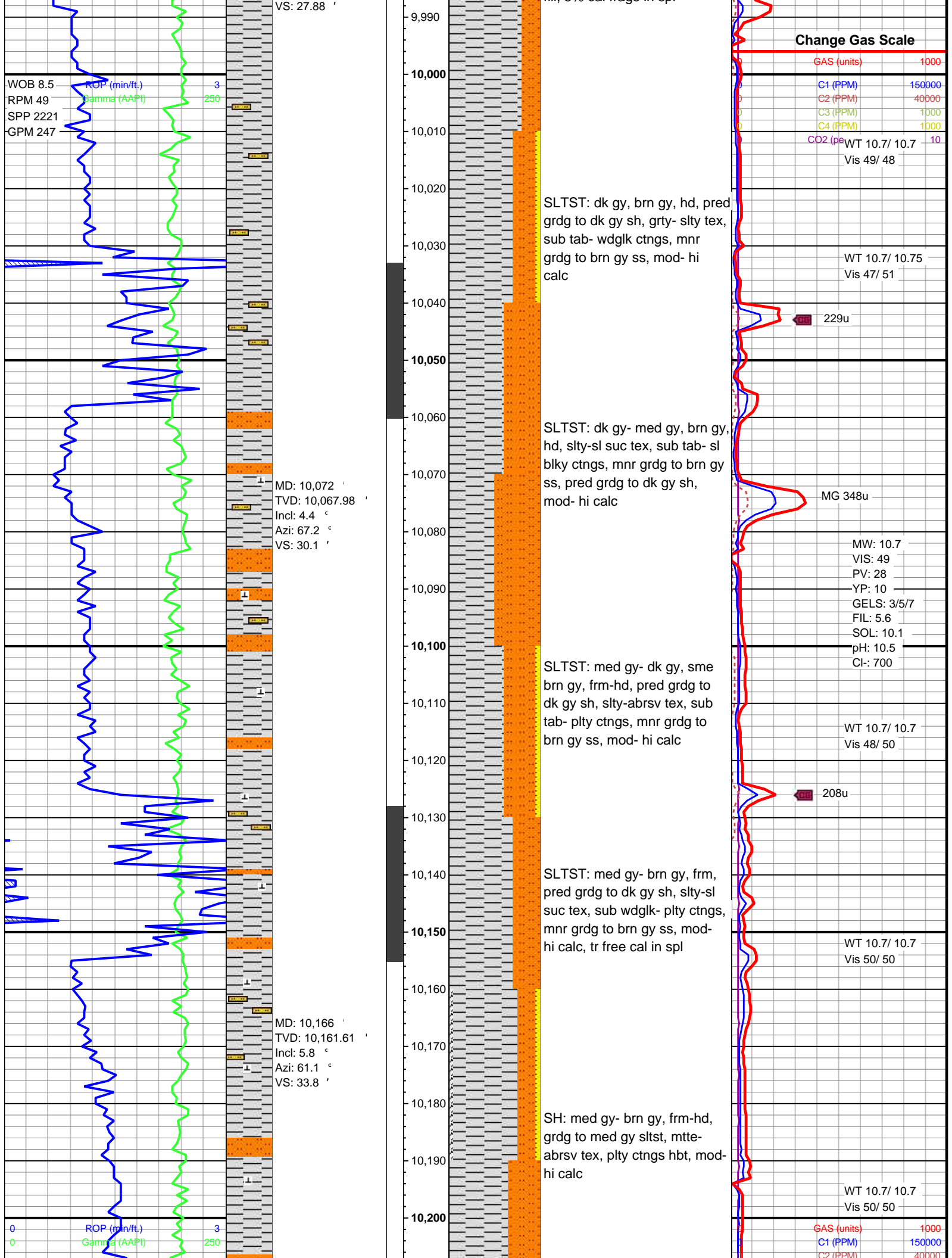




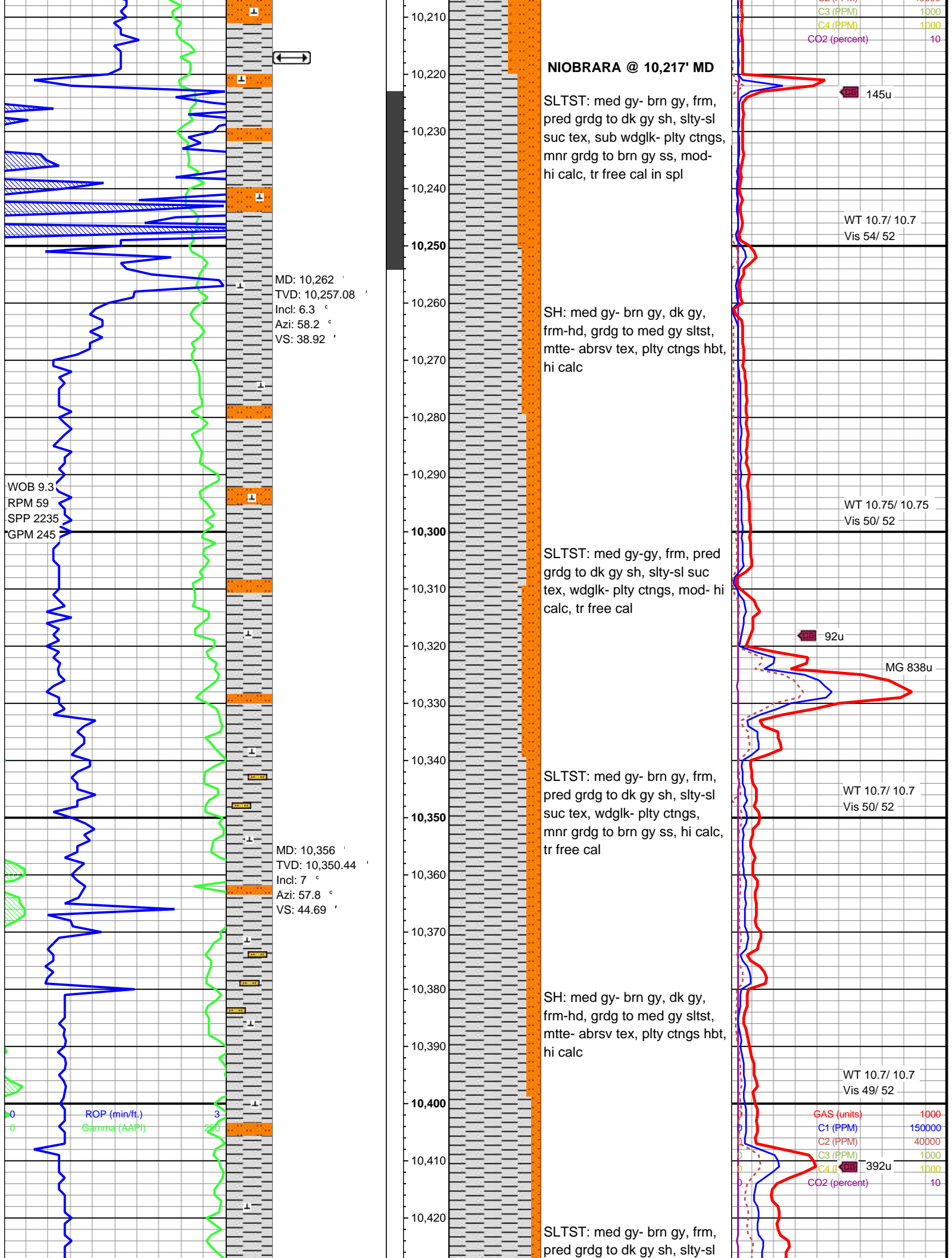


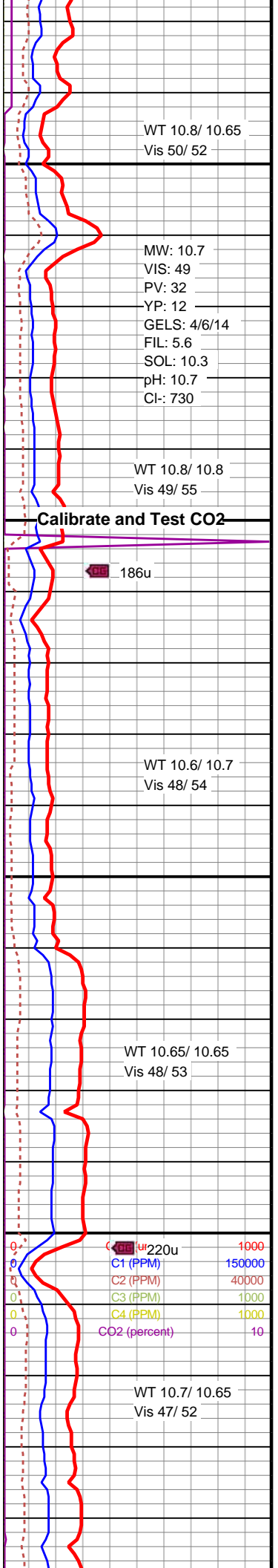
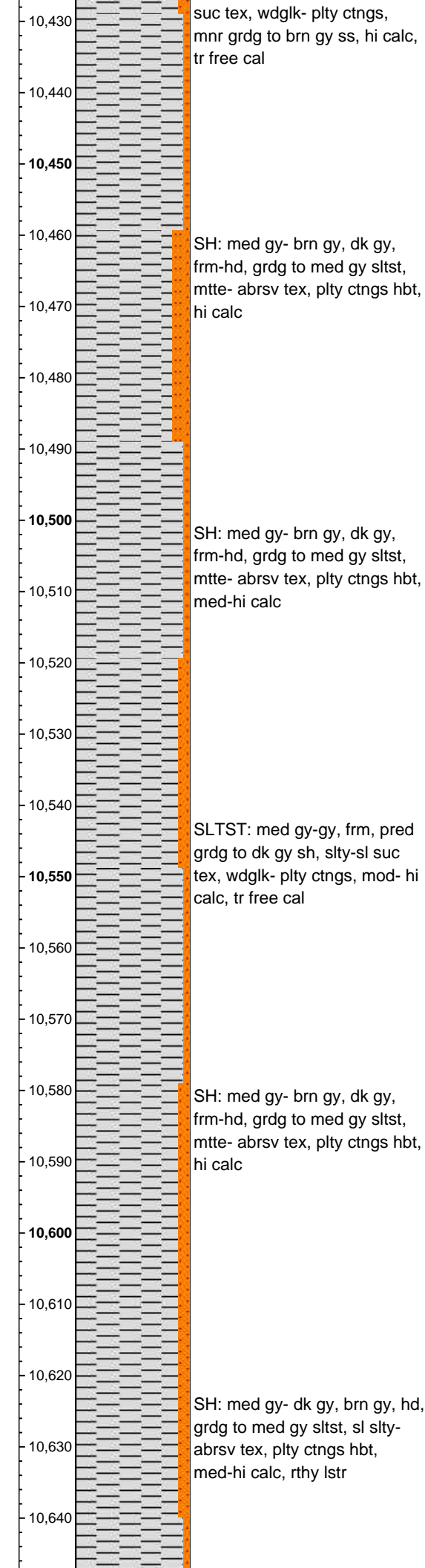
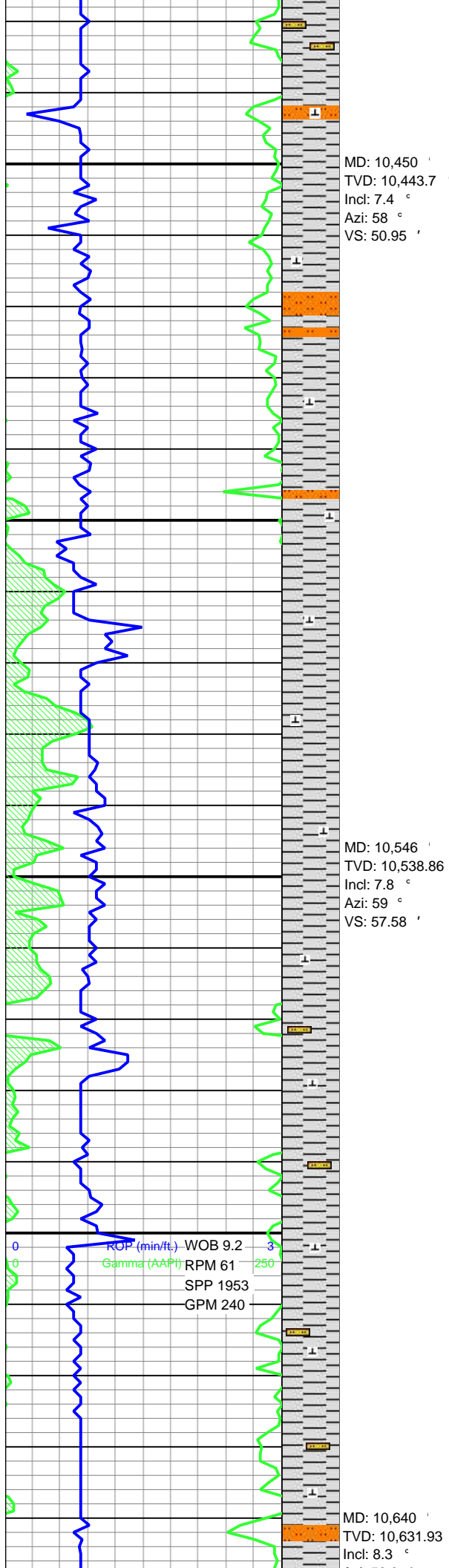


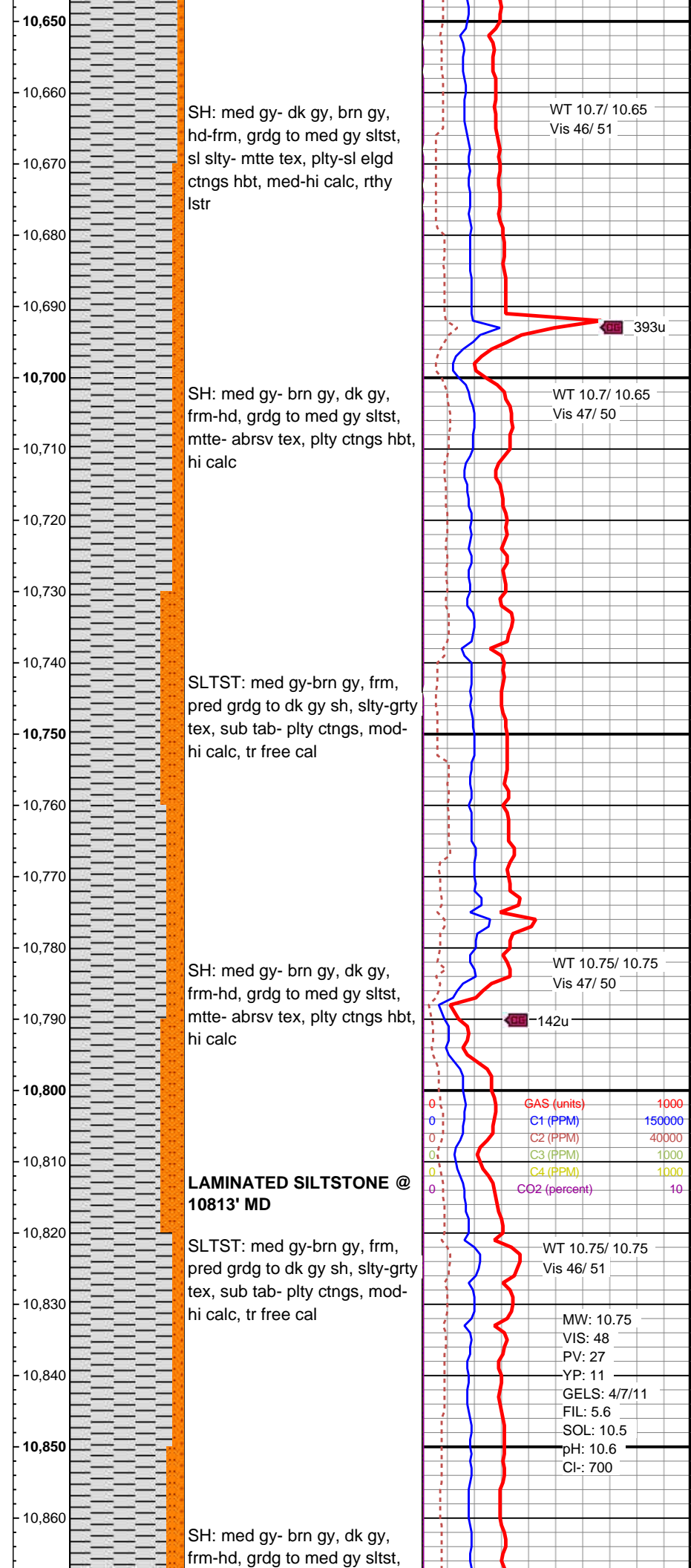
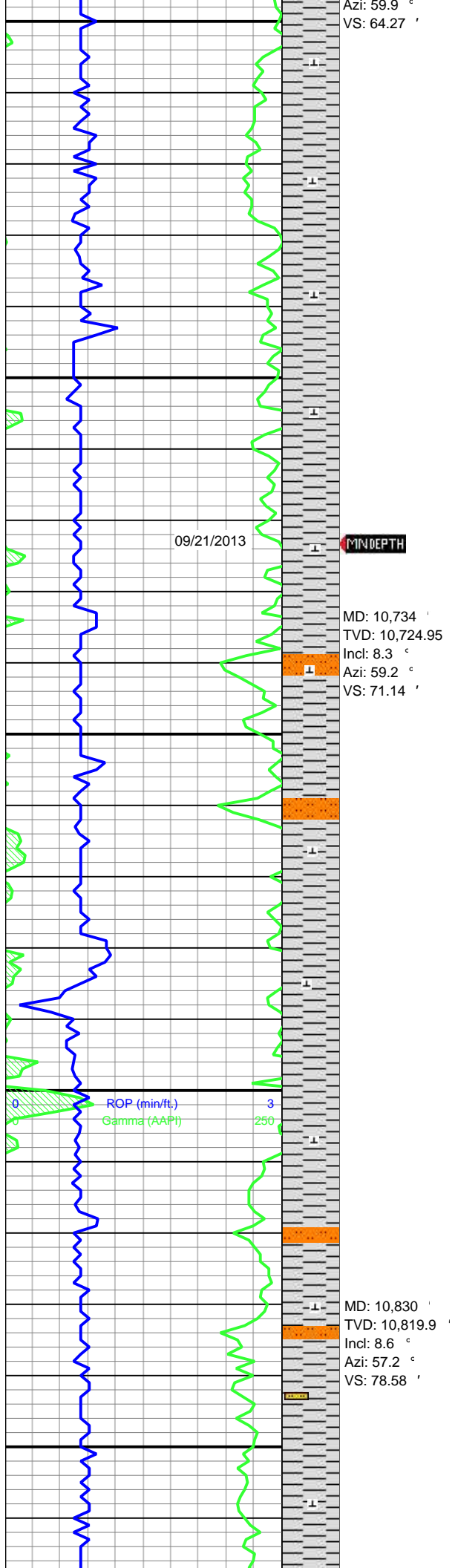




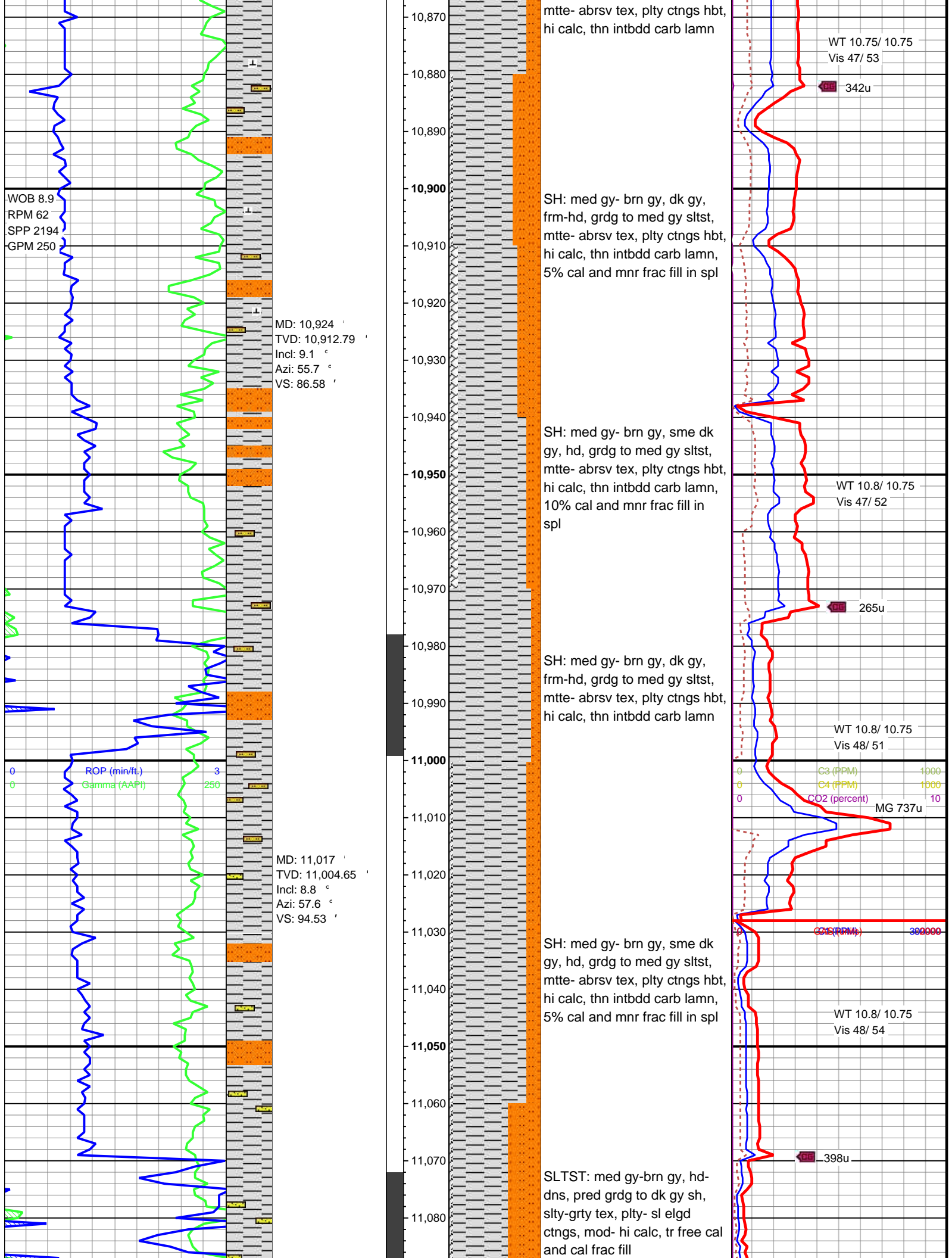


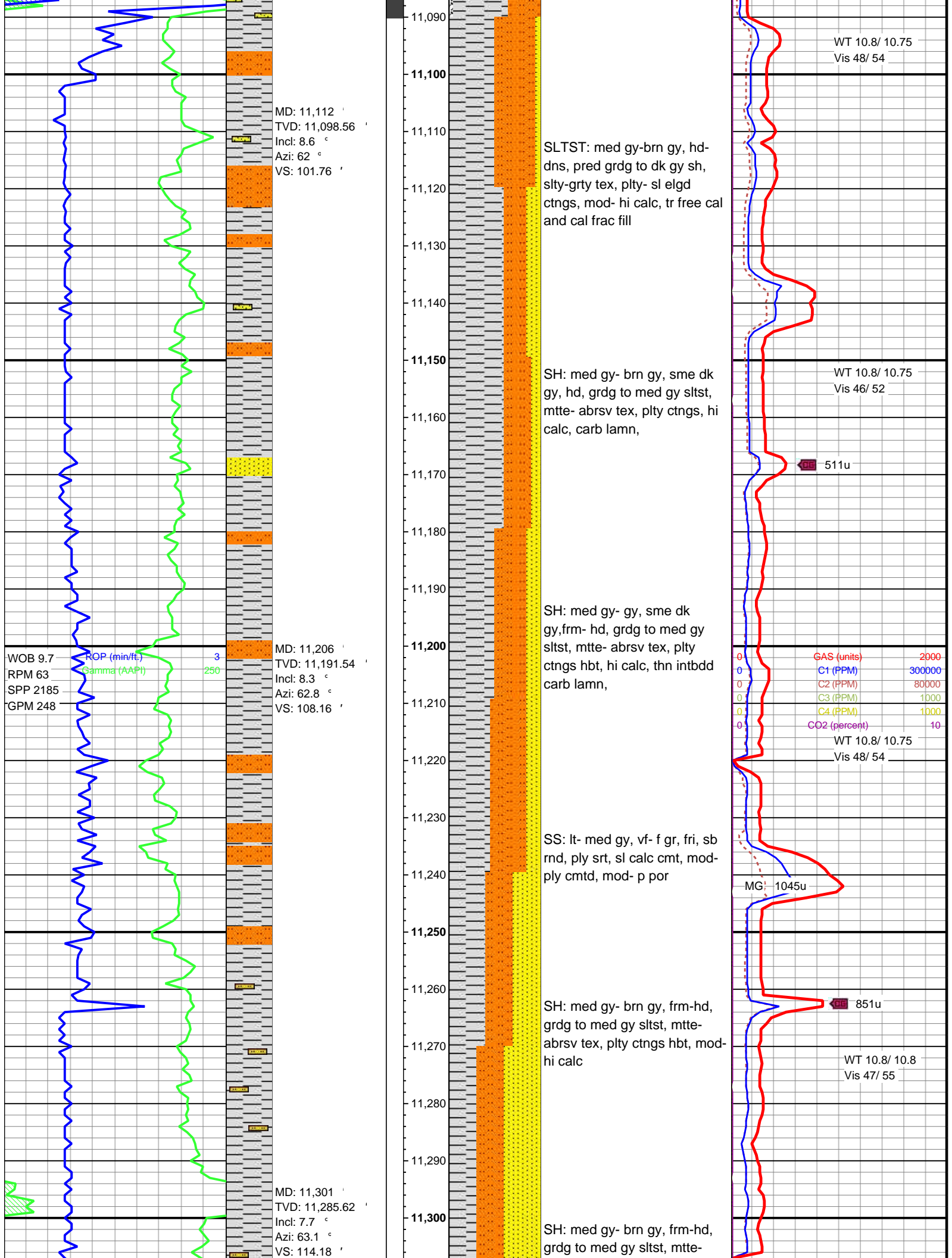


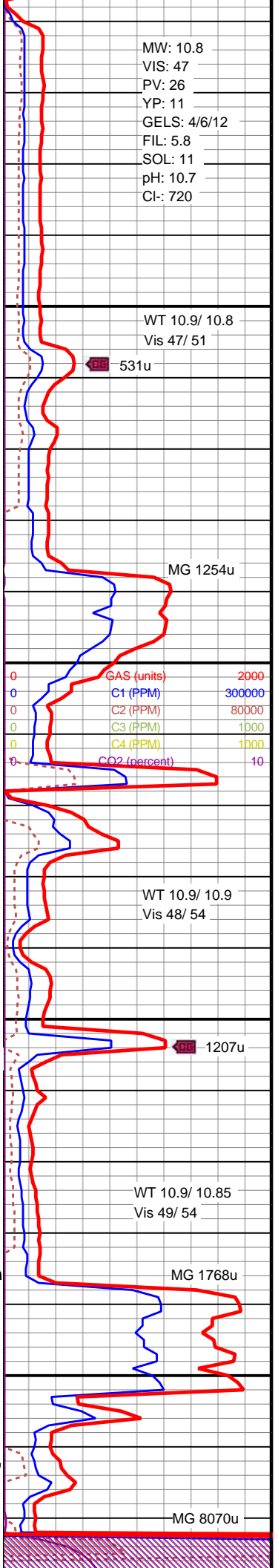
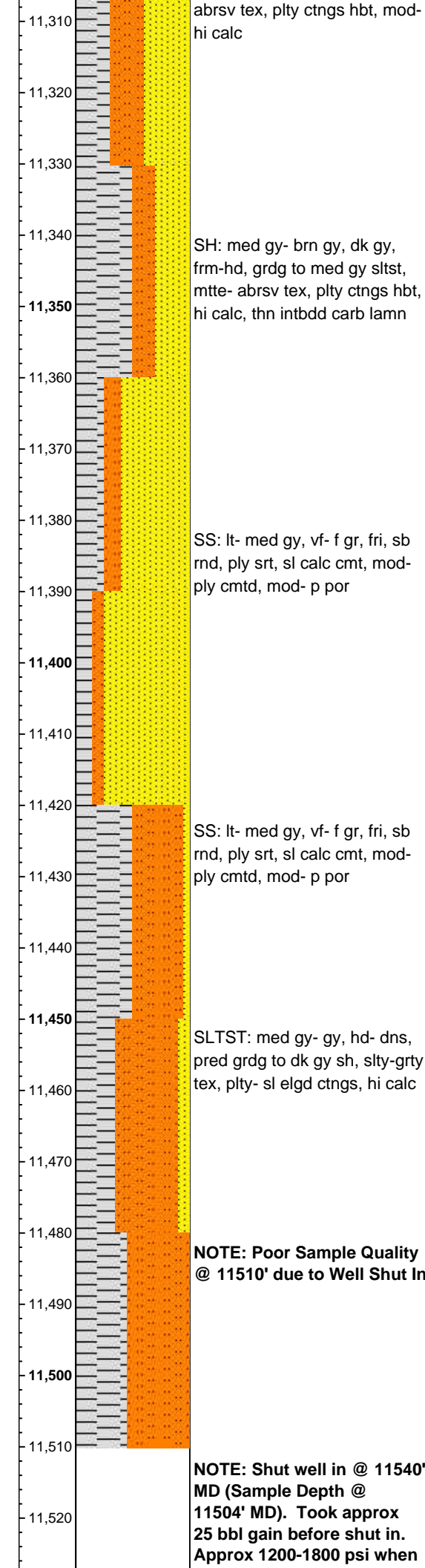
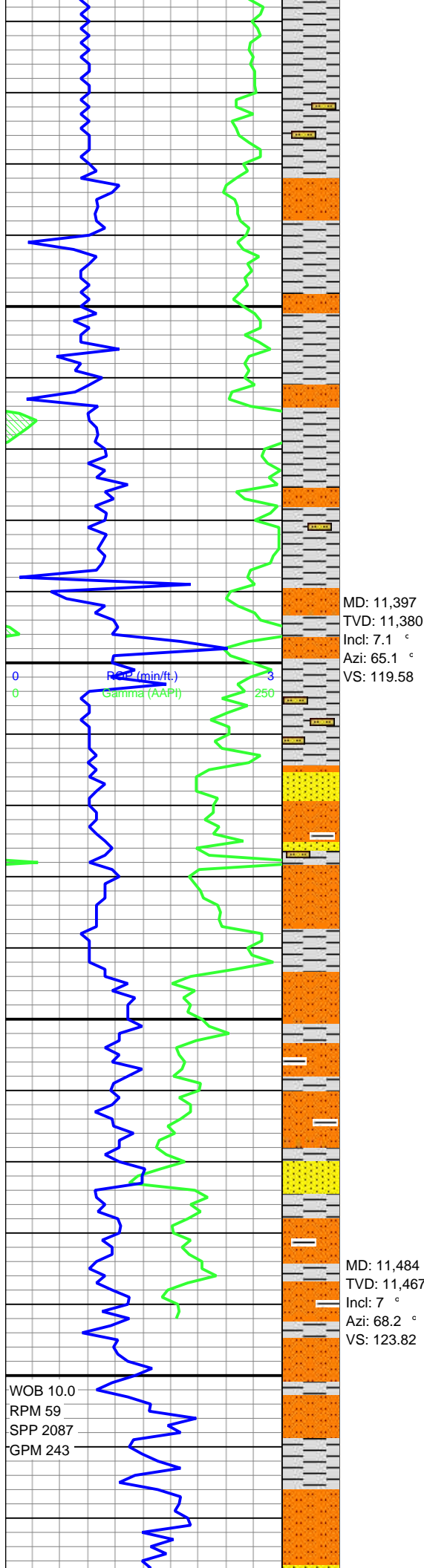




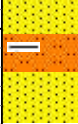
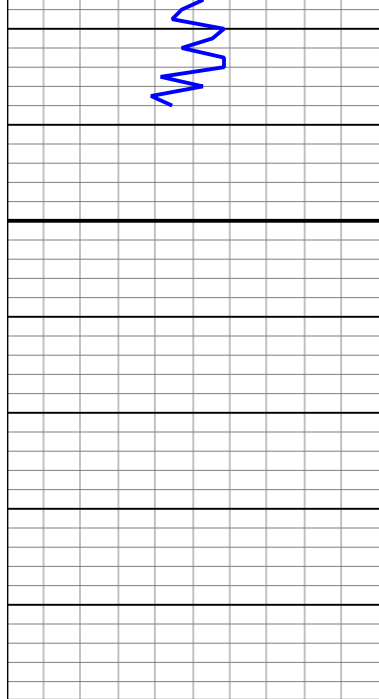




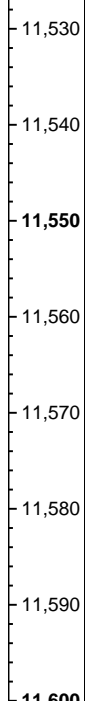








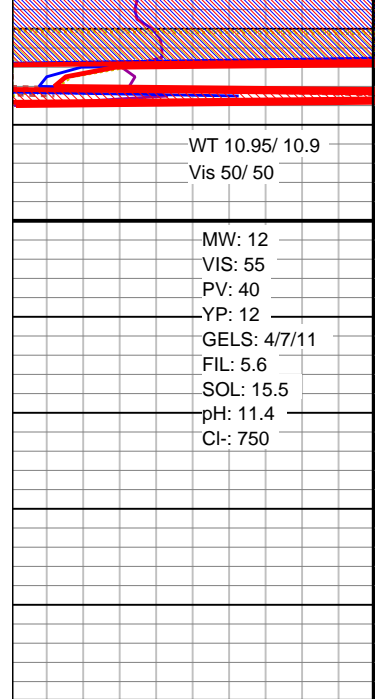
MD: 11,539 '  
TVD: 11,521.75 '  
Incl: 7 °  
Azi: 68.2 °  
VS: 126.3 '



well was shut in.

**NOTE: No Sample @ 11540'**  
**due to Well Shut In**

**NOTE: TD Well @ 11,540'**  
**MD (11,521.75' TVD) on**  
**09/21/2013.**



WT 10.95/ 10.9  
Vis 50/ 50

MW: 12  
VIS: 55  
PV: 40  
YP: 12  
GELS: 4/7/11  
FIL: 5.6  
SOL: 15.5  
pH: 11.4  
Cl-: 750