



Scale: 5" / 100'

Measured Depth Log

Well Name Raindance FD 20-282HC

Location NENE Sec 30--T6N-R67W

State COLORADO

County WELD

Country UNITED STATES

Rig Number PRECISION 460

API Number 05 123 44991 0000

AFE # 17DC0070

Geographic Region DJ Basin

Field WATTENBERG

Spud Date 3/8/2017

Drilling Completed 7/25/2017

Ground Elevation 4789'

K.B. Elevation 4809'

Logged Interval 6000' To 12681'

Total Depth 12681'

Formation CODELL

Type of Drilling Fluid OBM

Operator

Company Great Western Oil and Gas

Address 1801 Broadway, Ste 500
Denver, CO 80202



Geologist

Name Gabriel Rubio, Mark Sowinski

Company Terra Guidance

Address 1298 O Road
Loma CO 81524
(970) 260-5408



Color Coding

Oil

Note

Error

Condensate

Core

Water

Gas

Pressure

Seal

Rock Types

LIMESTONE

Chalk

Marl

SHALE

Silty Shale

Shaly Siltstone

SILTSTONE

Shaly Sandston

SANDSTONE

BENTONITE

CEMENT

UNKNOWN

ANHYDRITE

GYPSUM

SALT

SIDERITE or LIMONITE

DOLOMITE

CHERT

COAL

MARLSTONE

CLAYSTONE

SHALE GRAY

SHALE COLORED

CONGLOMERATE

BRECCIA

TILL

TUFF

IGNEOUS

METAMORPHIC

Accessories

F FOSSIL

GASTROPOD

OOLITE

OSTRACOD

PELECYPOD

PELLET

PISOLUTE

PLANT REMAINS

SCAPHOPOD

STROMATOPOROID

FISH

FORAMINIFERA

ARGILLACEOUS

ARGILLITE GRAIN

B BENTONITE

BITUMINOUS SUBSTANCE

BRECCIA FRAGMENTS

CALCAREOUS

CARBONACEOUS FLAKES

CHTDK

CHTLT

COAL - THIN BEDS

DOLOMITIC

FELDSPAR

FERRUGINOUS PELLET

FERRUGINOUS

GLAUCONITE

GYPSIFEROUS

HEAVY MINERAL

KAOLIN

MARLSTONE

MINERAL CRYSTALS

NODULES

PHOSPHATE PELLETS

PYRITE

SALT CAST

SANDY

SILICEOUS

SILTY

TUFFACEOUS

ANHYDRITE STRINGER

BENTONITE STRINGER

COAL STRINGER

DOLOMITE STRINGER

GYPSUM STRINGER

LIMESTONE STRINGER

MARLSTONE (CALC) STRG

MARLSTONE (DOL) STRG

SANDSTONE STRINGER

SHALE STRINGER

SILTSTONE STRINGER

Other Sy

ORGANIC

P PINPOINT

GAS SH

EVEN

QUESTIONABLE

SPOTTED STAINING

DEAD

VUGGY

MINDEPTH

Engineering

NORMA

OIL SH

OVERTURN

REVERS

CASING

CONNECTION (LEFT)

CONNECTION (RIGHT)

SLIDE

CORE - LOST

SURV

TRIP

WIRELIN

Porosity

E EARTHY

FENESTRAL

F FRACTURE

INTERCRYSTALLINE

INTEROOLLITIC

MOLDIC

CONNECTION GAS

FAULT

WIRELIN

CORE - RECOVERED

TRIP

WIRELIN

Engineering

FAULT

WIRELIN

ymbols

FORMATION TOP L LITHOGRAPHIC

Rounding

LOW MX MICROXLN

MIN DEPTH AN ANGULAR MS MUDSTONE

FL FAULT R ROUNDED PS PACKSTONE

DW SUBANG WS WACKESTONE

URNED STRATA R SUBRND

Sorting

SE FAULT

Textures

ALL CORE (LEFT) M MODERATE

ALL CORE (RIGHT) BS BOUNDSTONE P POOR

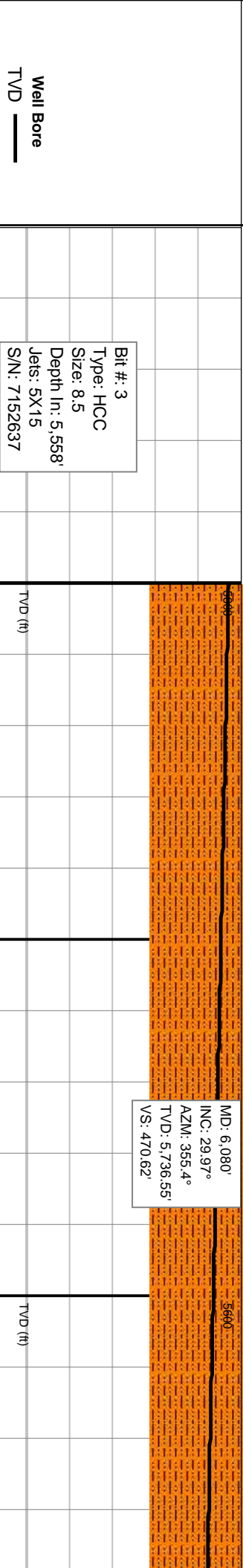
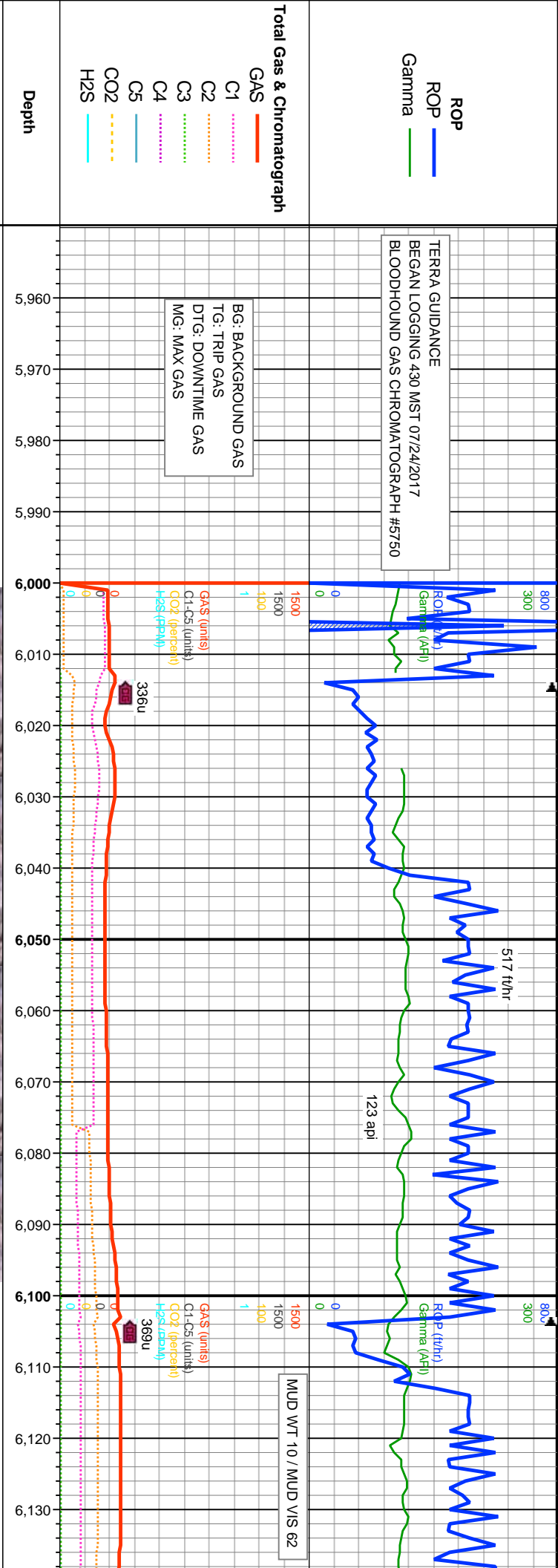
C CHALKY W WELL

KEY CX CRYPTOXLN

3AS E EARTHY

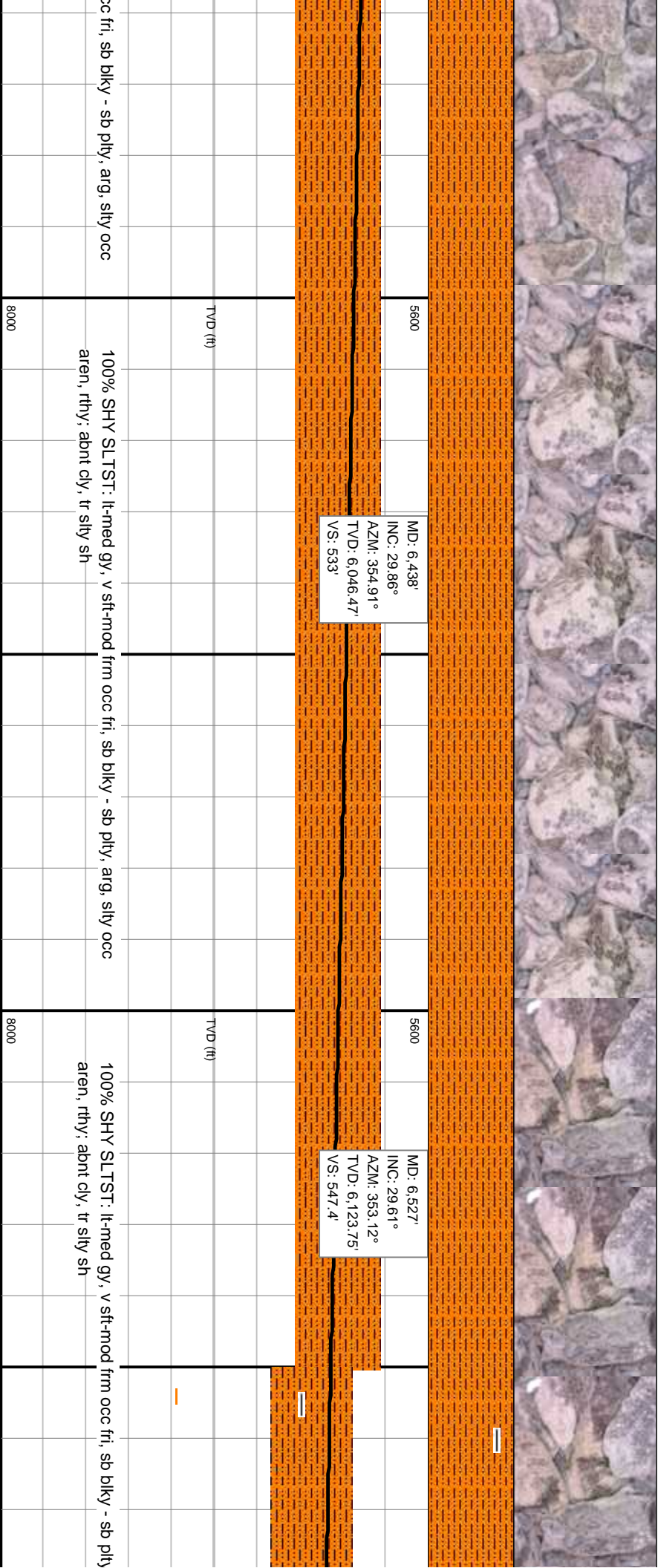
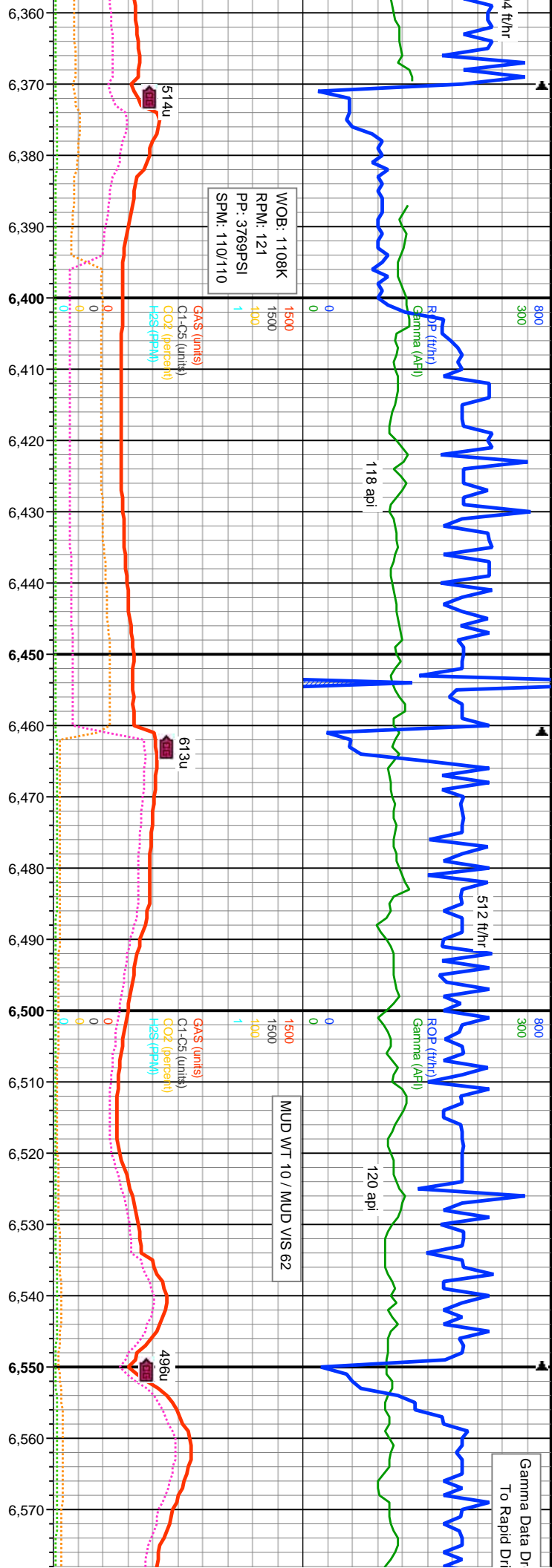
NE TESTED - LEFT FX FINELYXLN

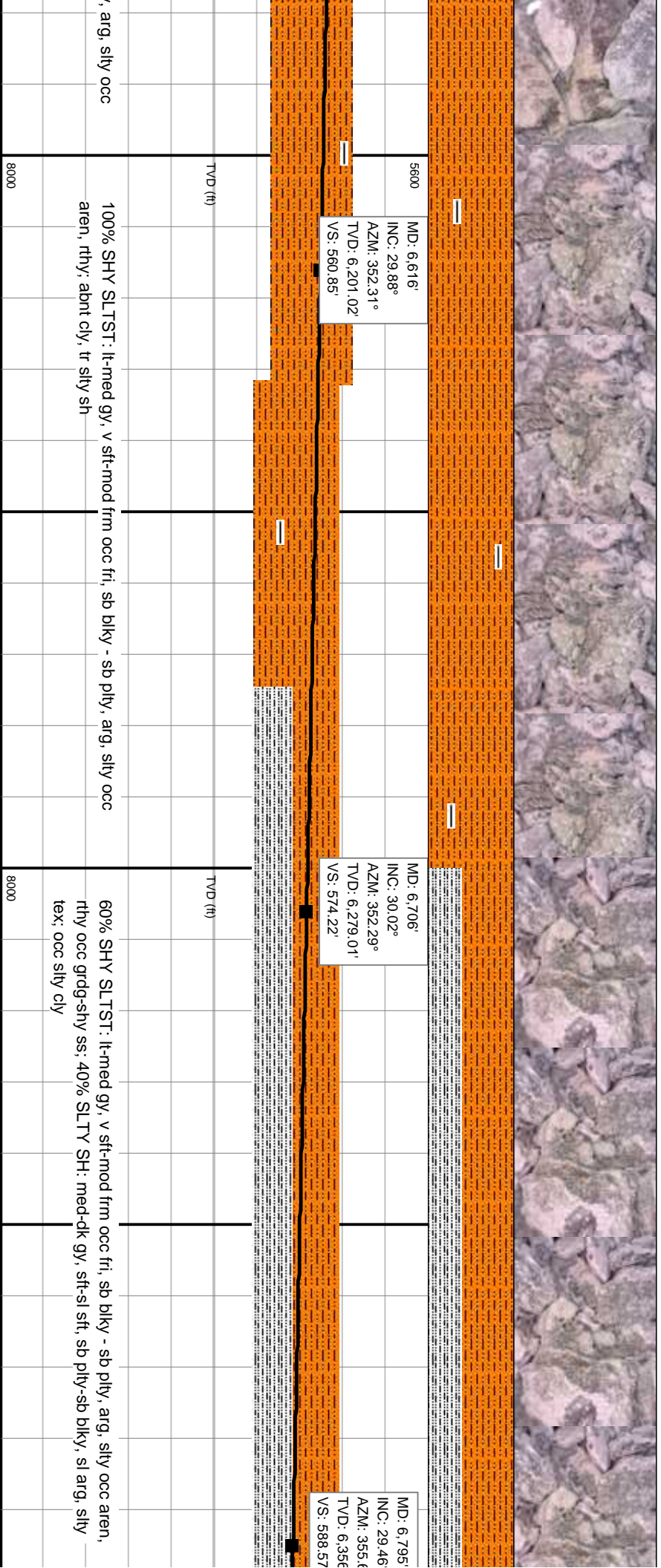
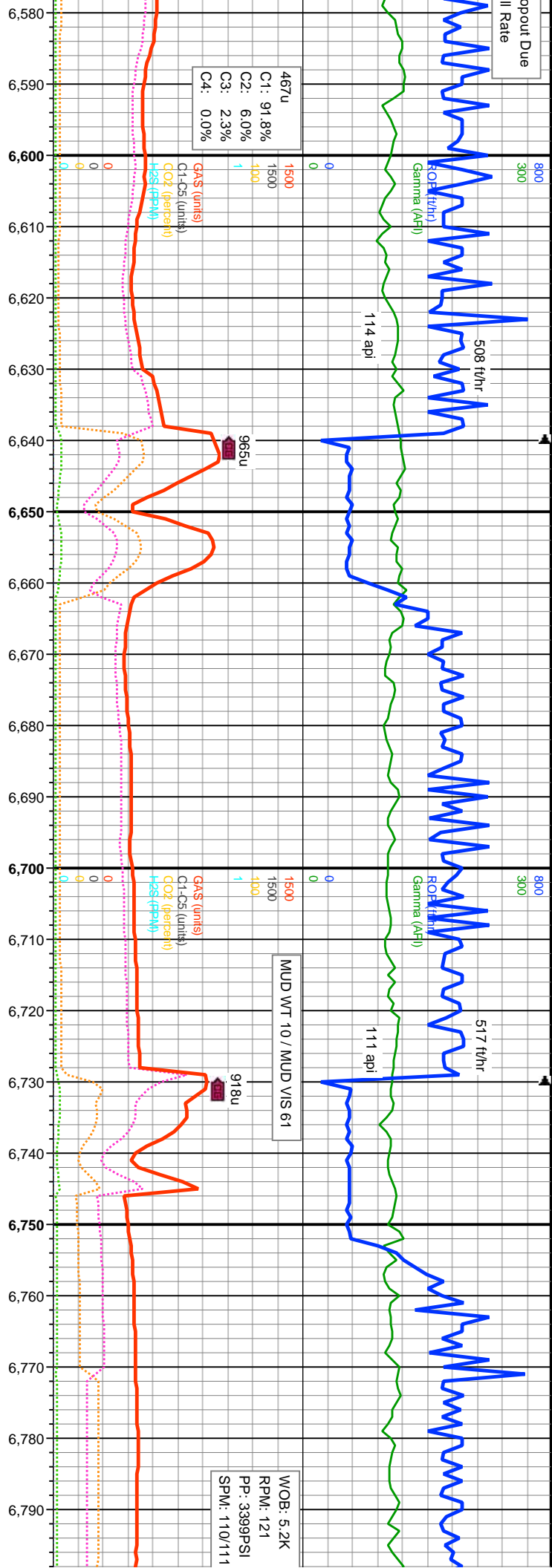
NE TESTED - RT GS GRAINSTONE

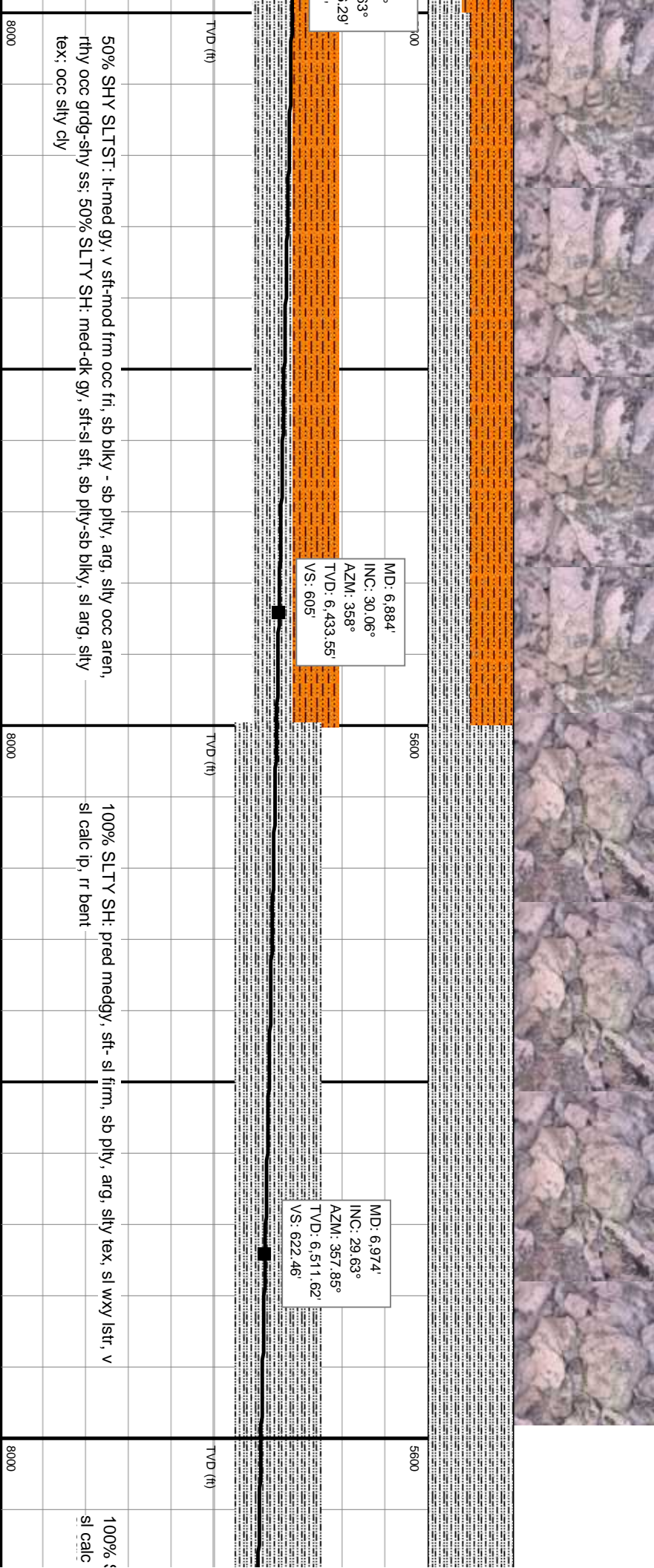
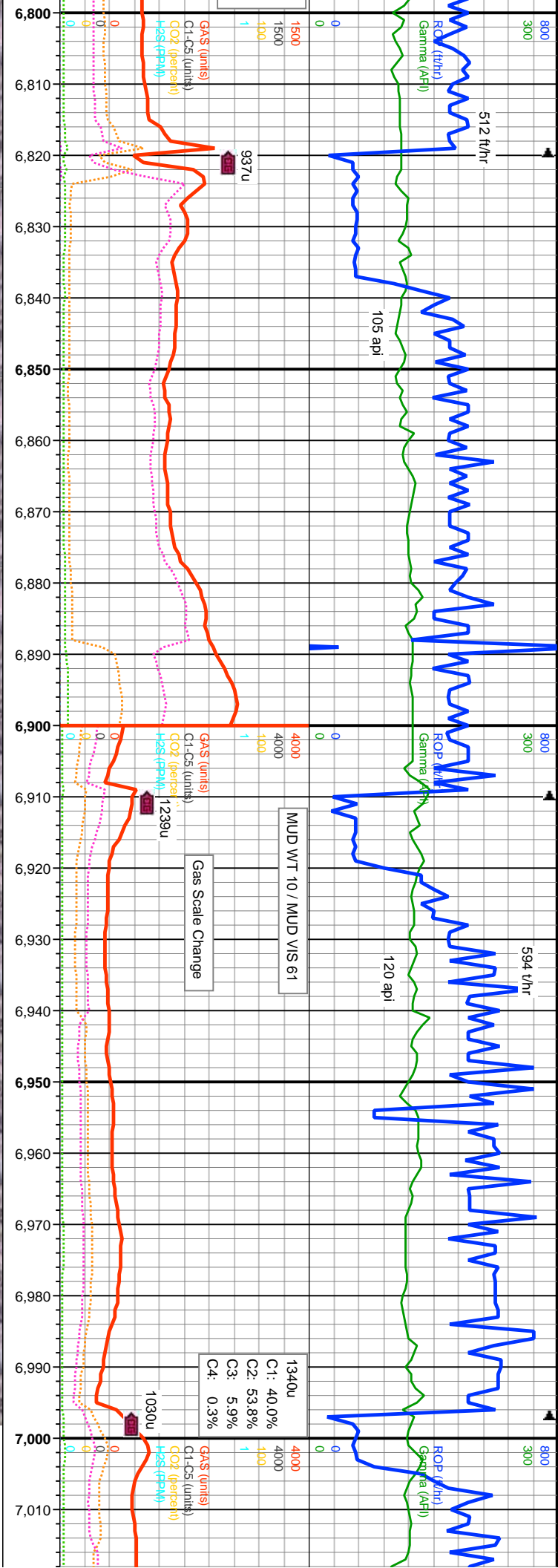


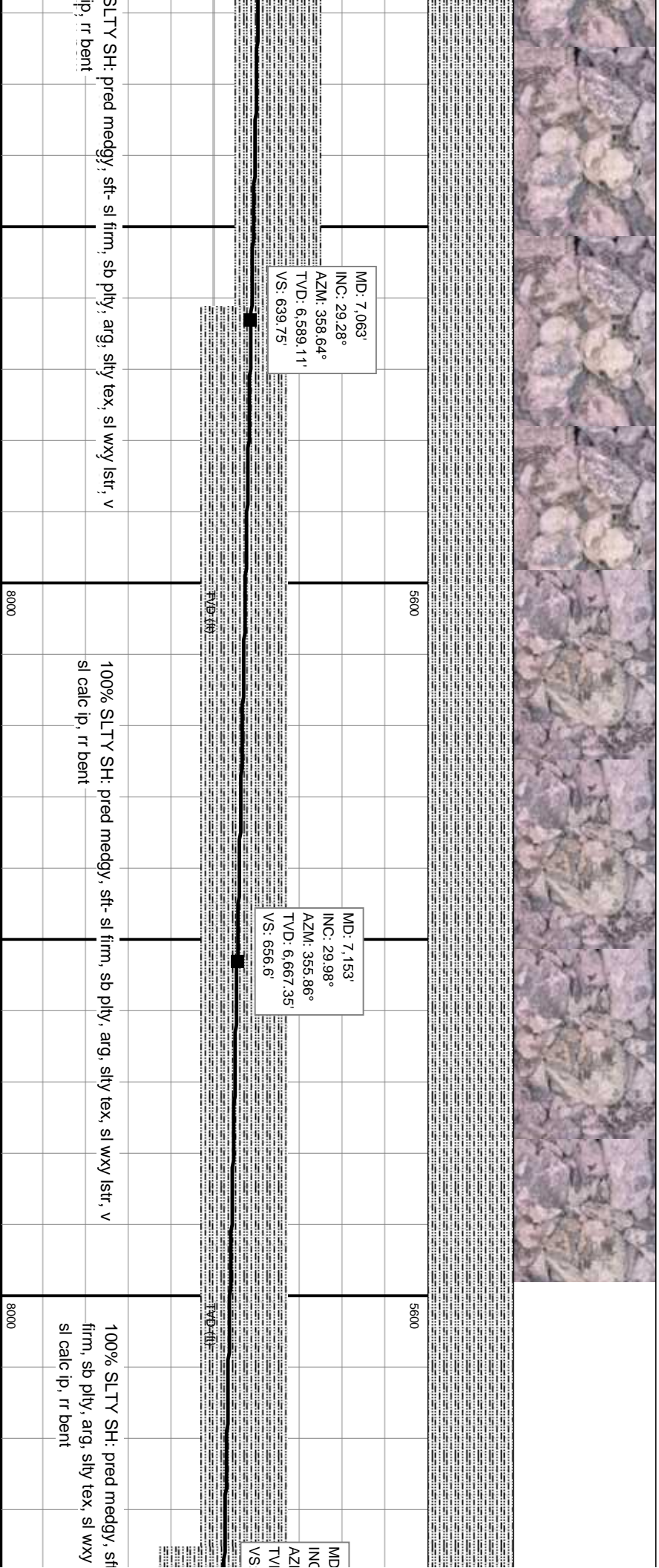
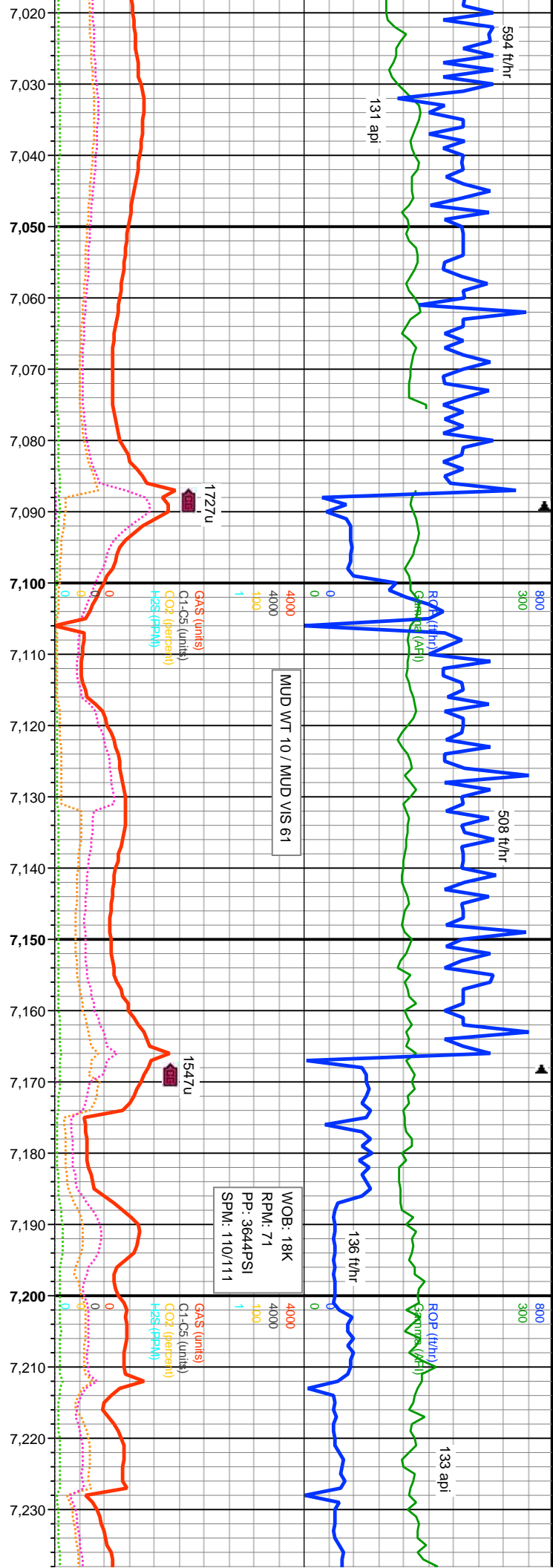
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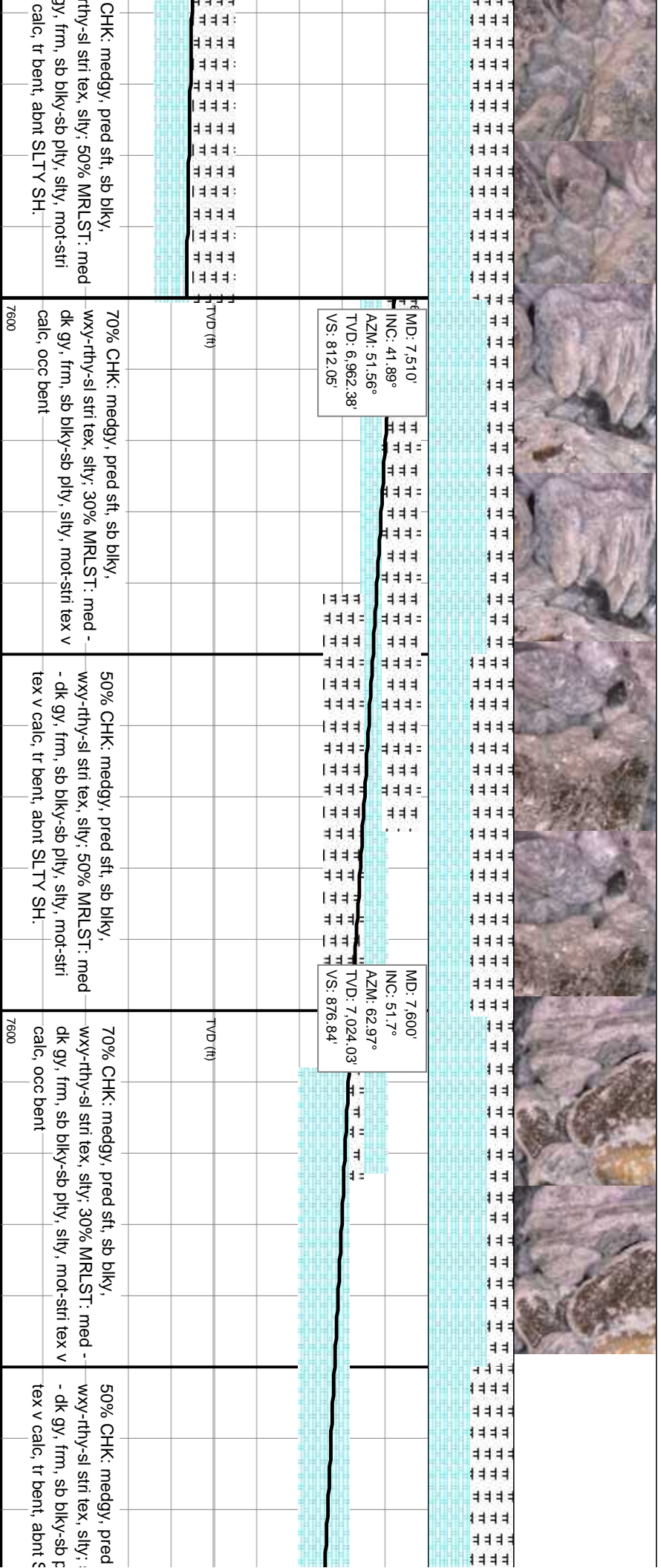
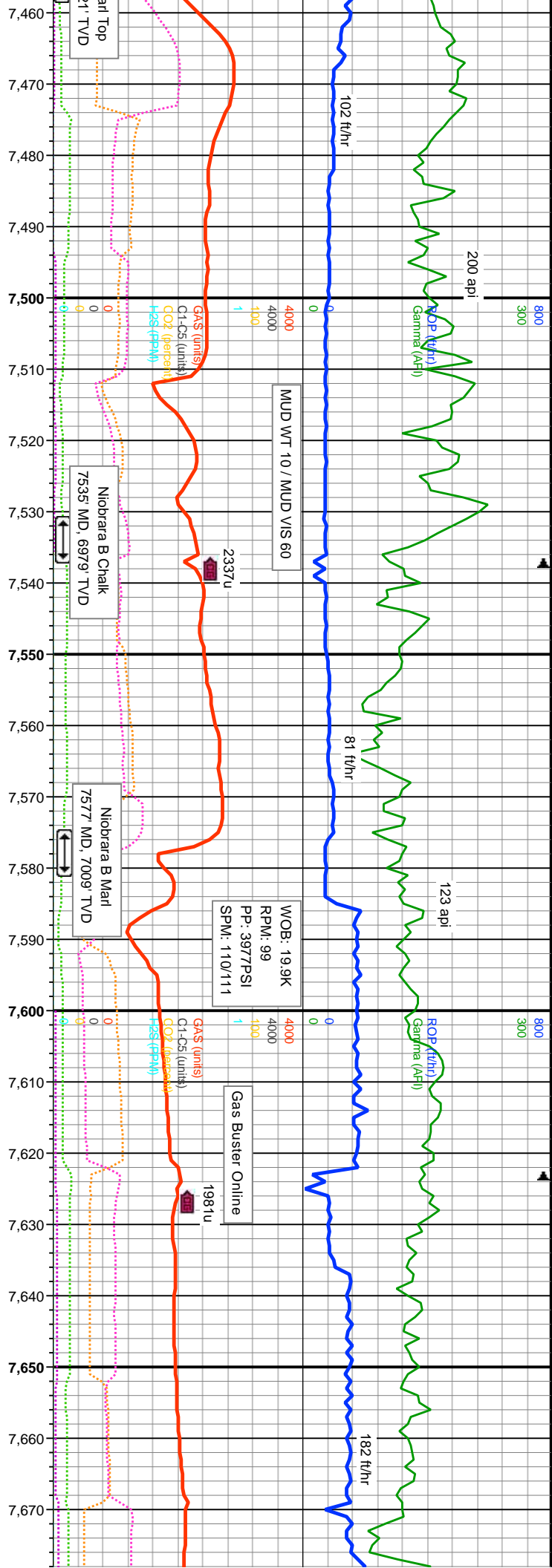
100% SHY SLTST: lt-med aren, rthy, abnt cly, tr silty

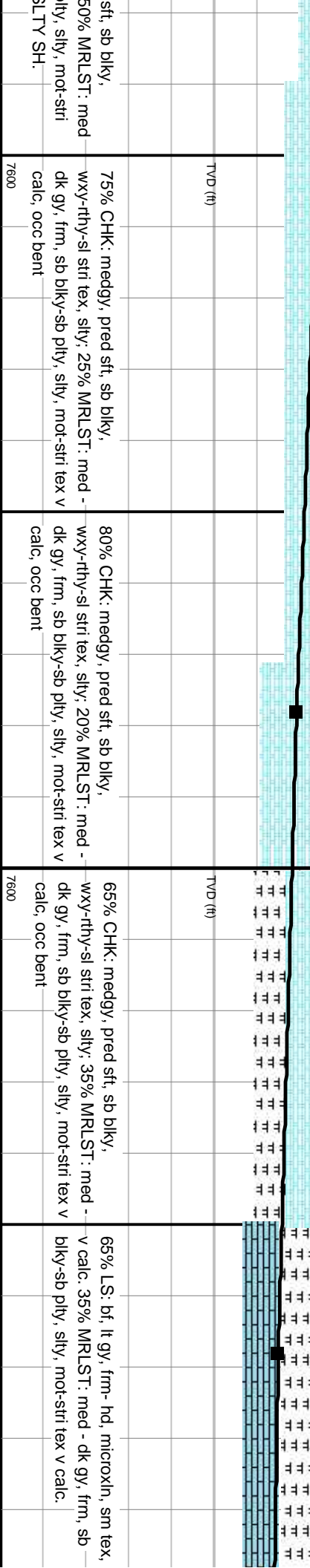
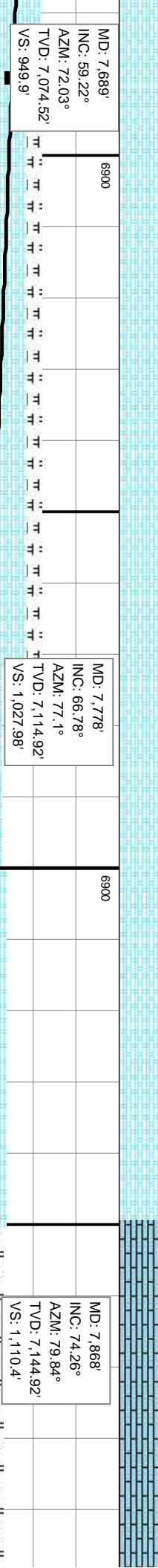
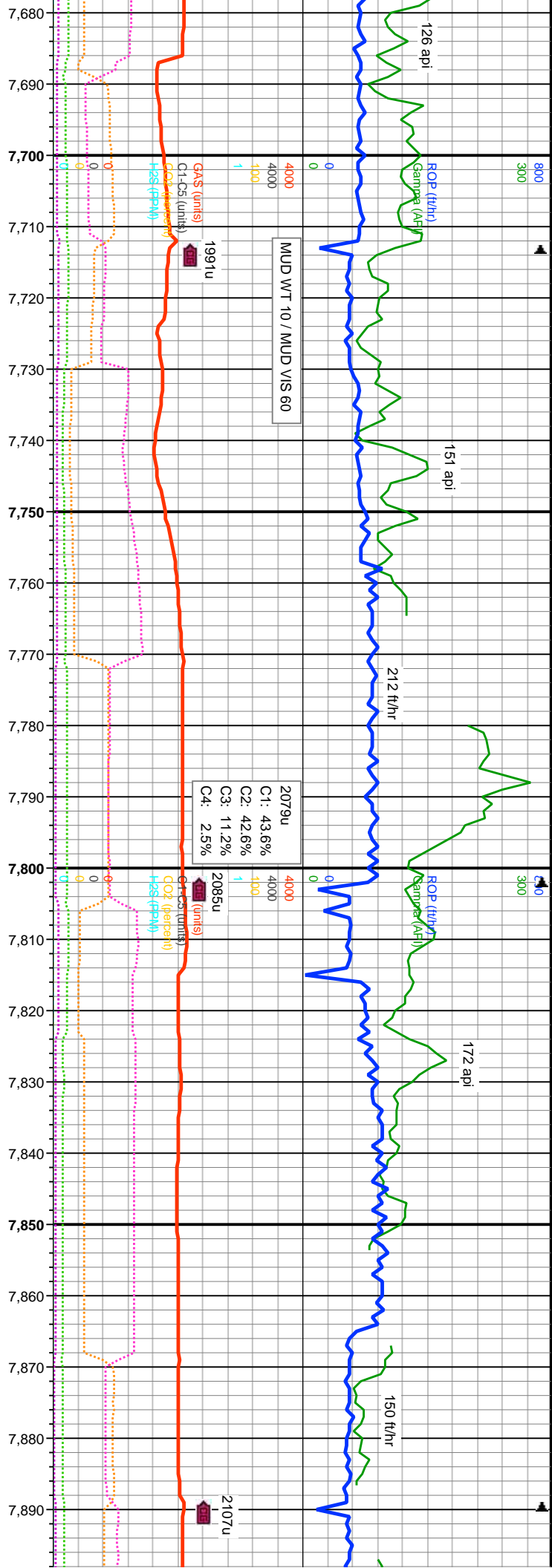


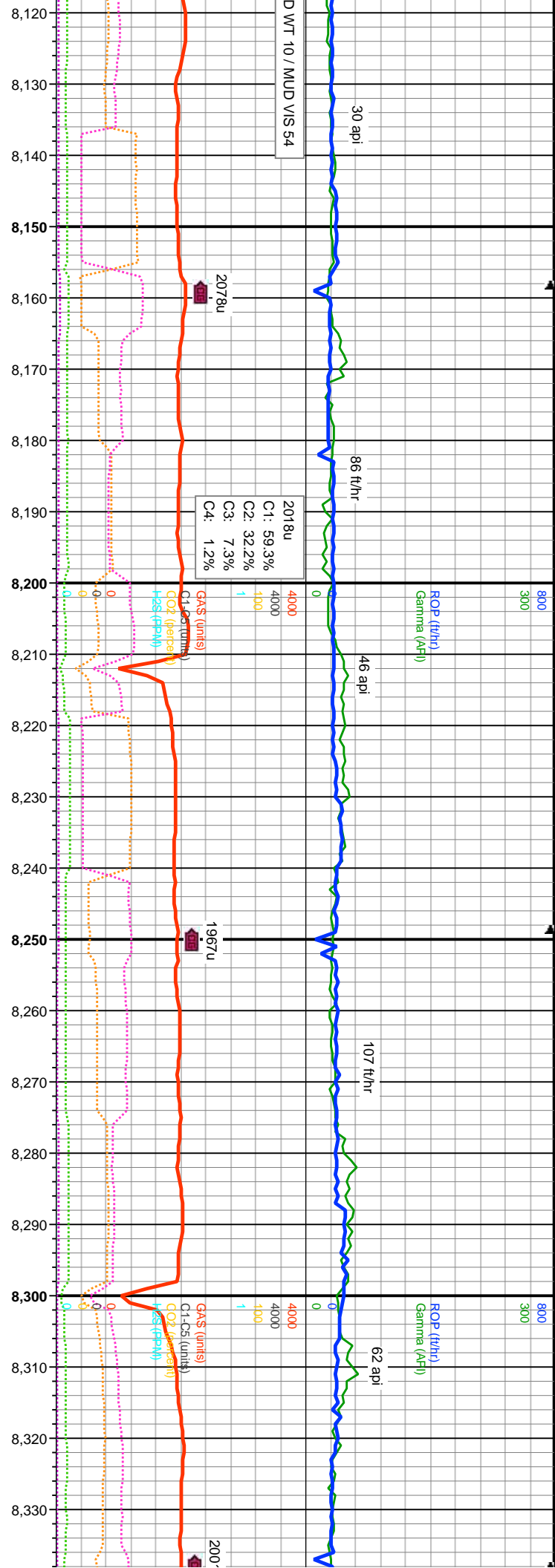








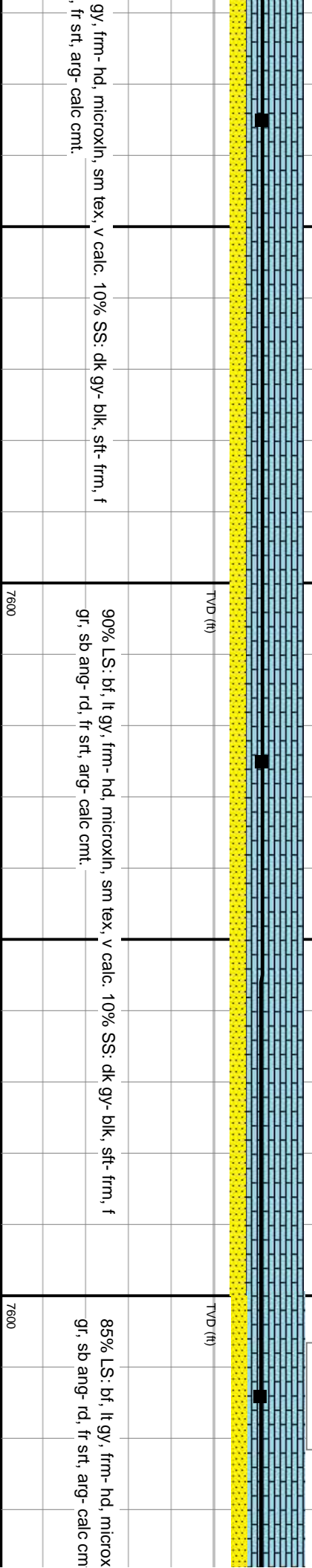


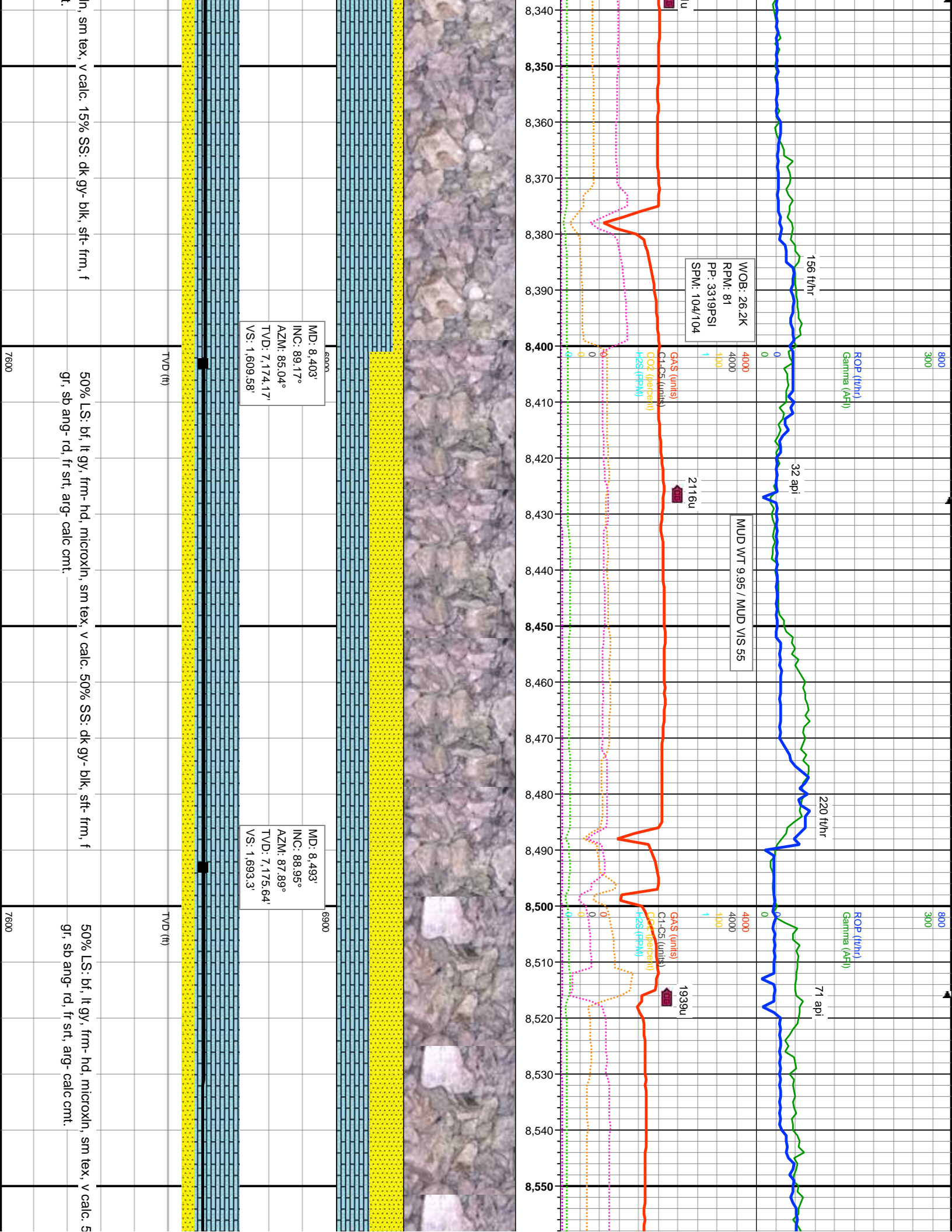


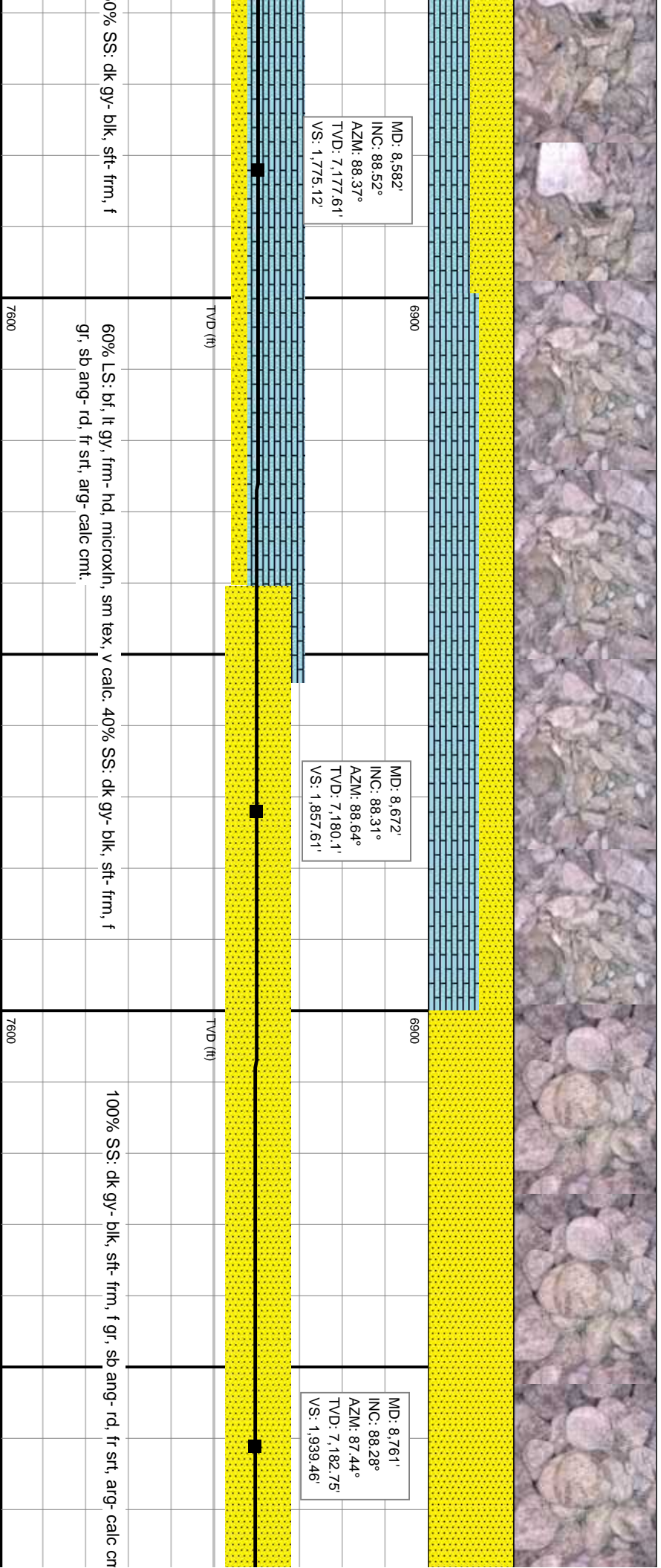
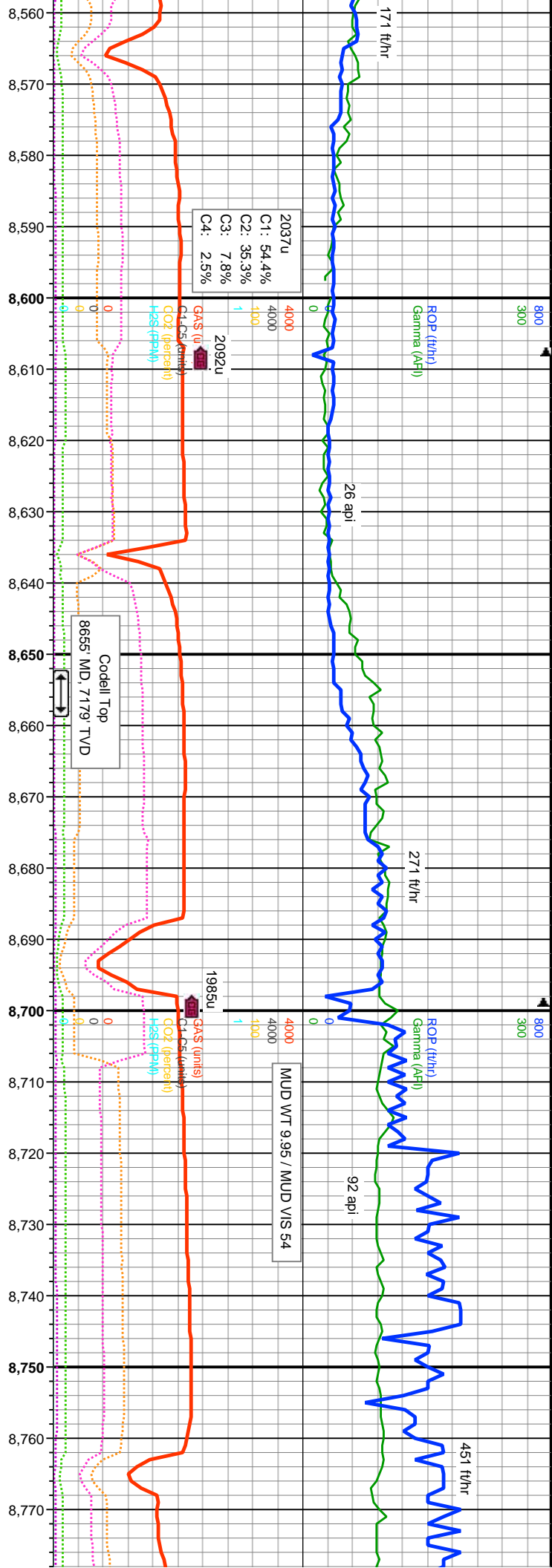
MD: 8,135'
INC: 90.06°
AZM: 88.77°
TVD: 7,170.7'
VS: 1,360.83'

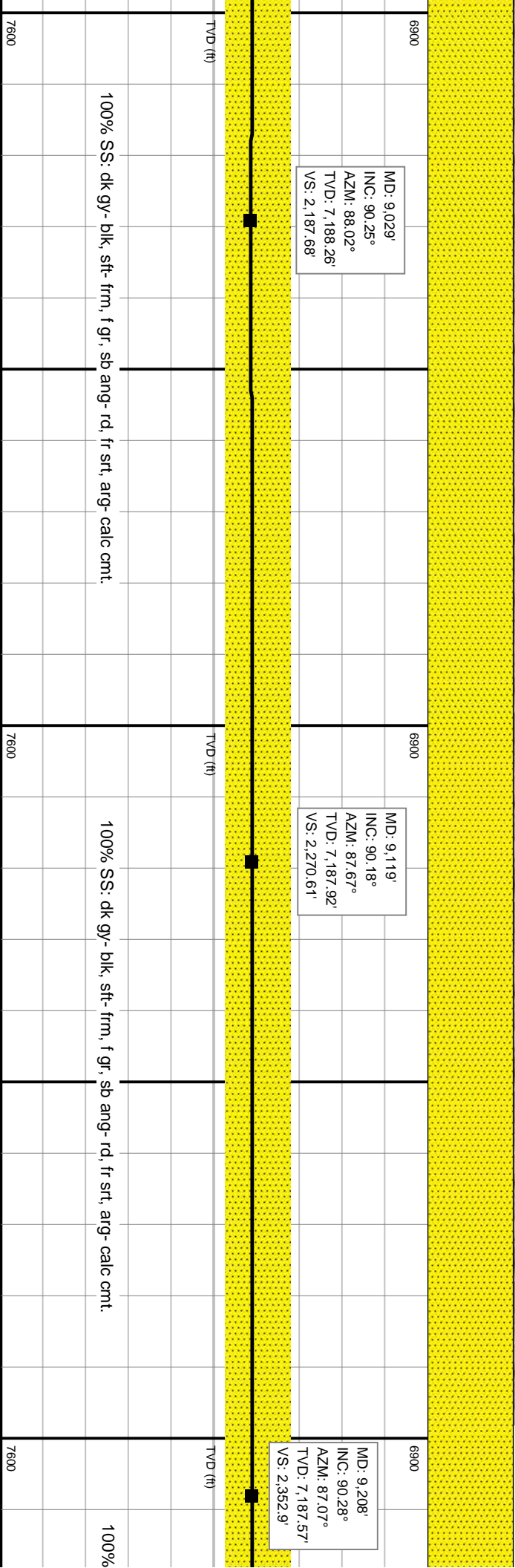
MD: 8,225'
INC: 89.11°
AZM: 88.58°
TVD: 7,171.35'
VS: 1,443.24'

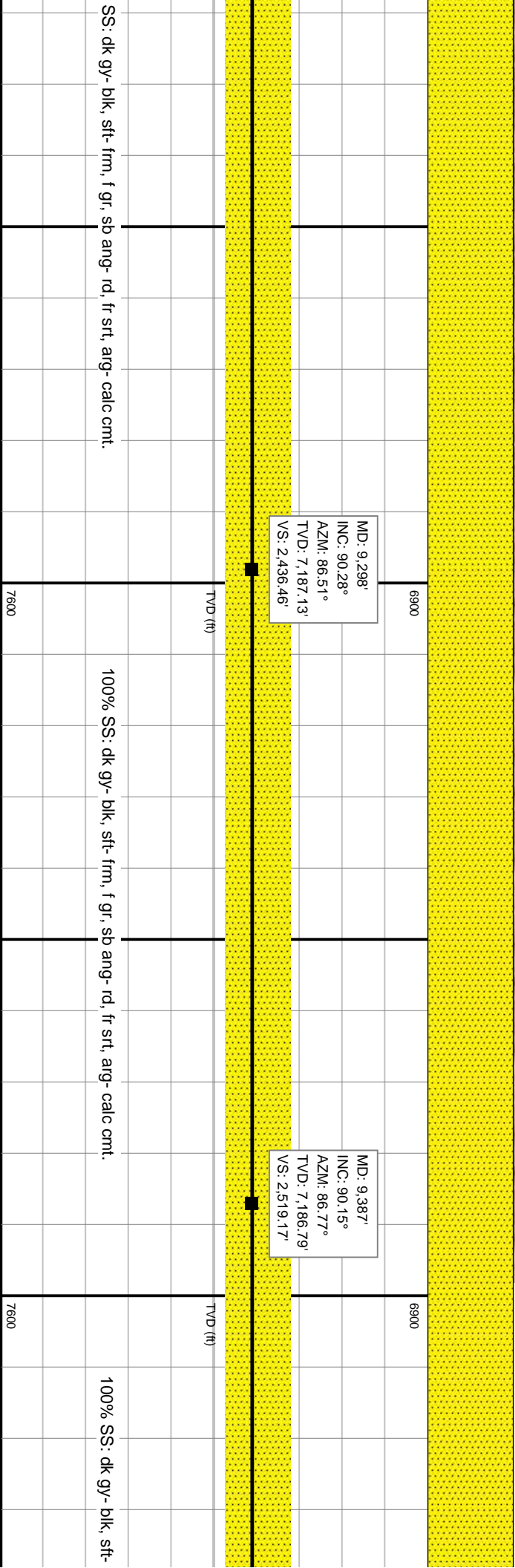
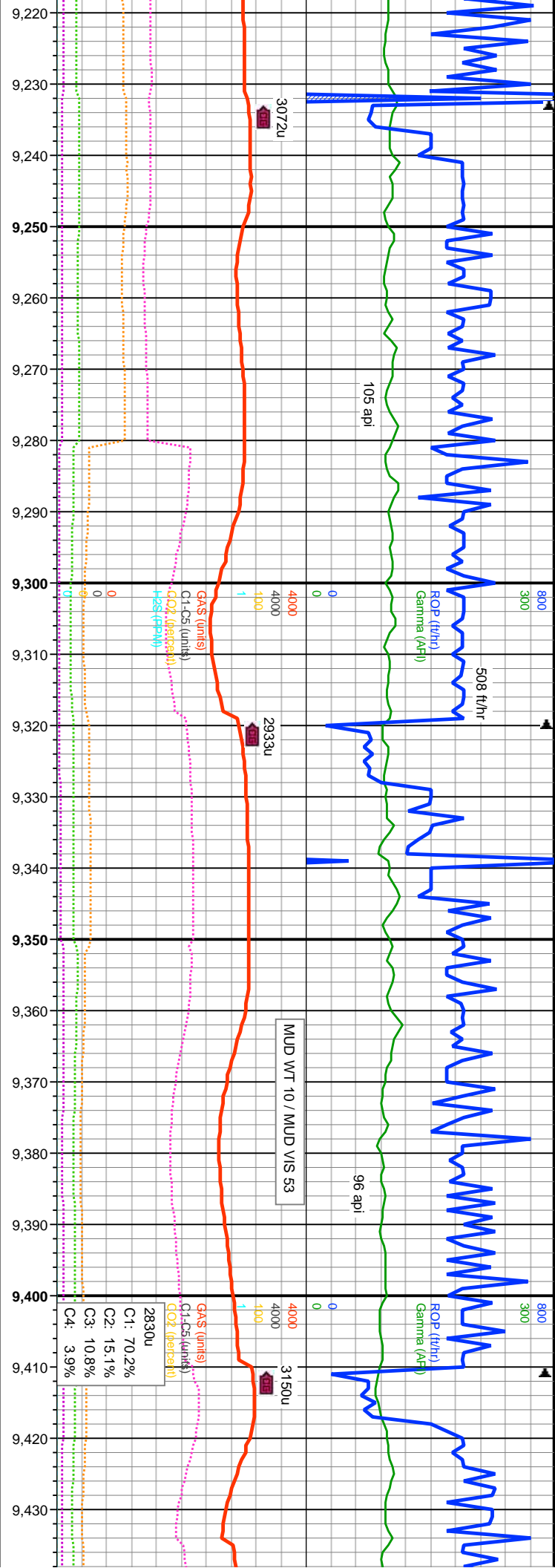
MD: 8,314'
INC: 89.05°
AZM: 84.76°
TVD: 7,172.78'
VS: 1,525.91'

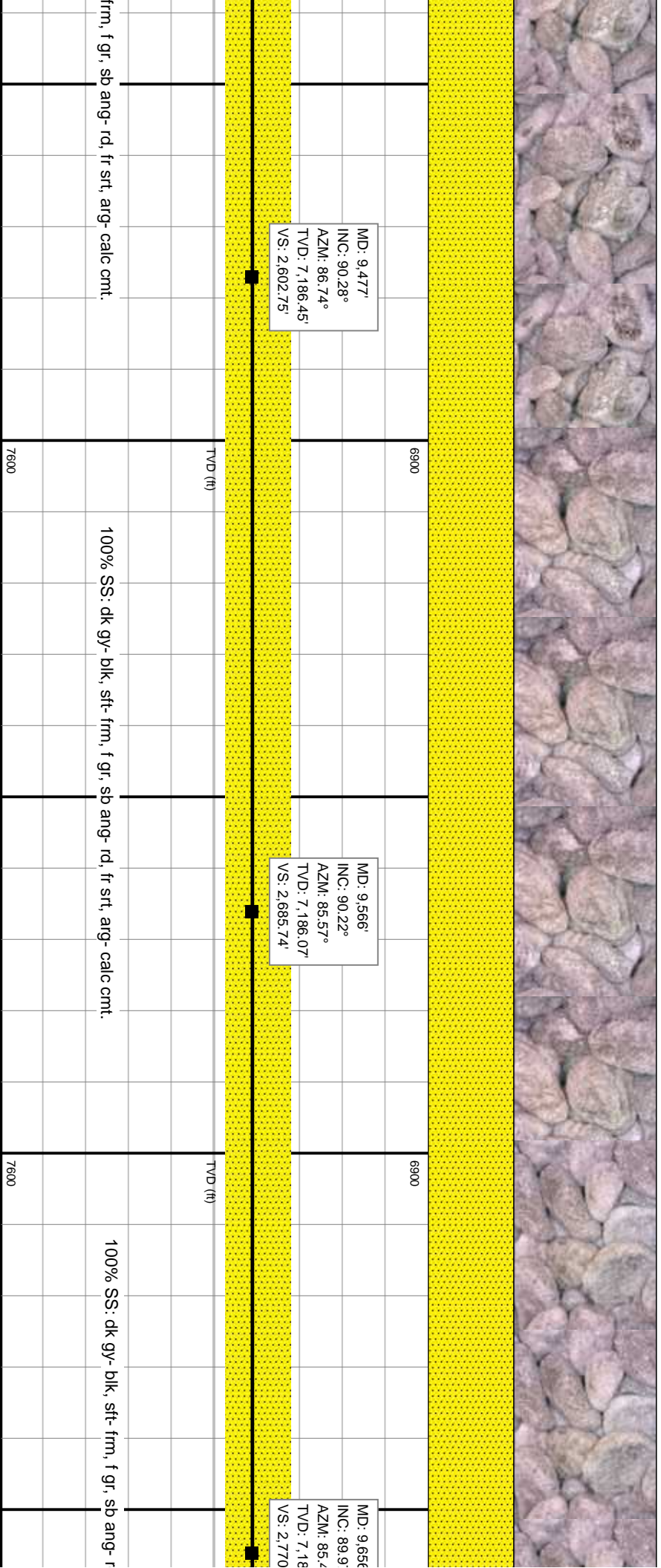
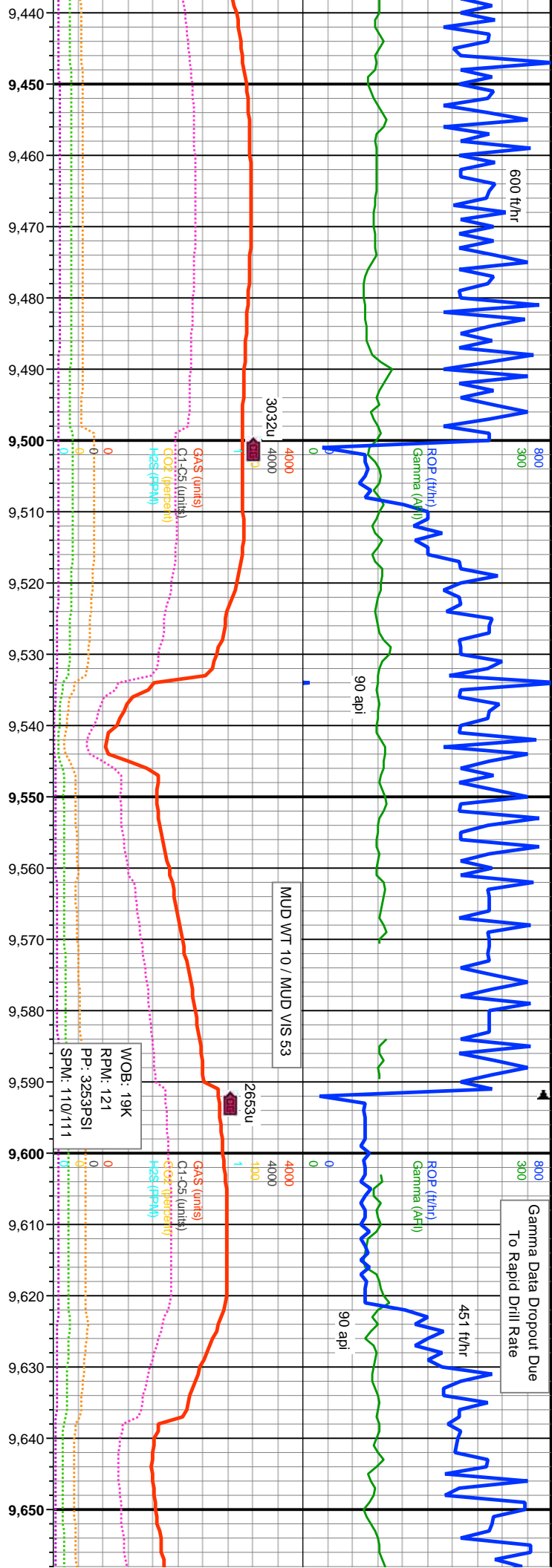


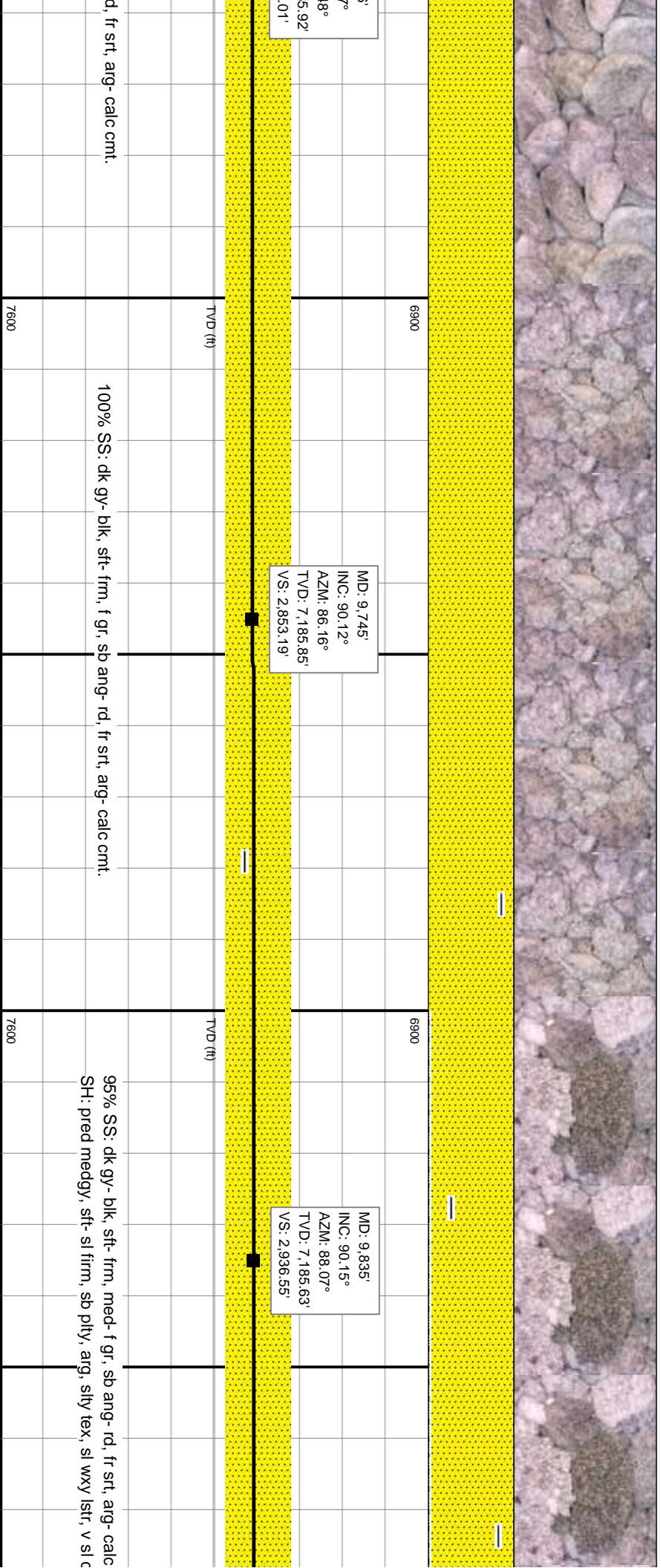
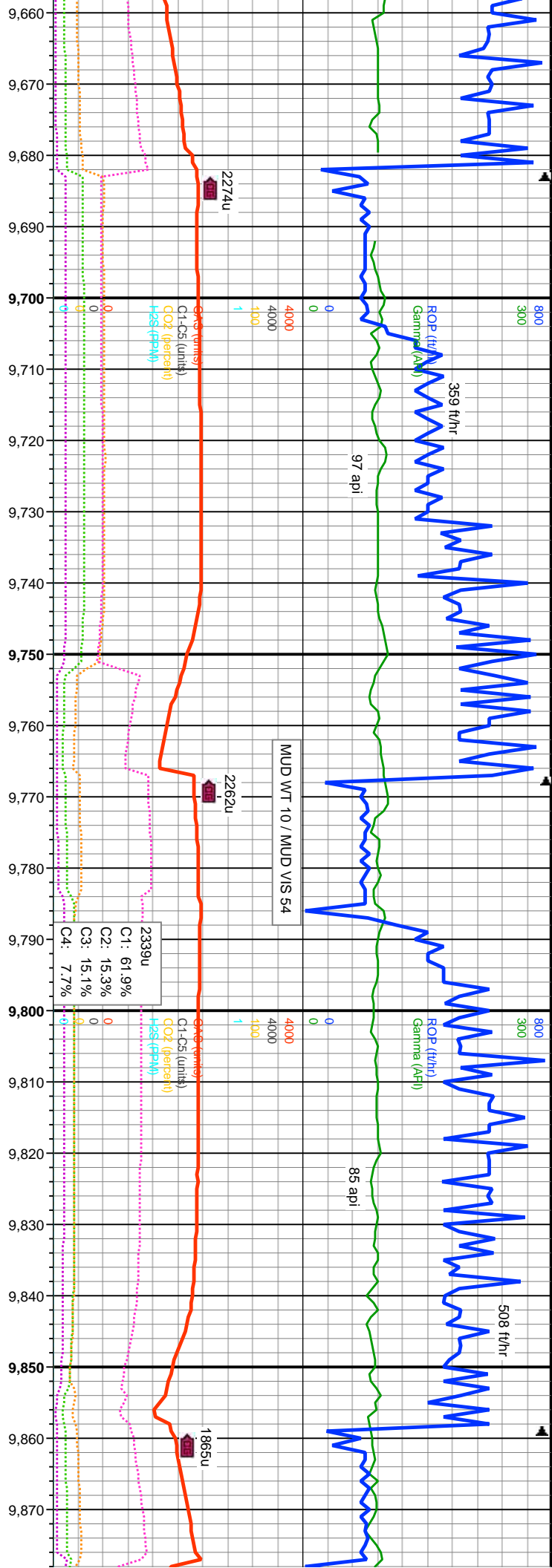


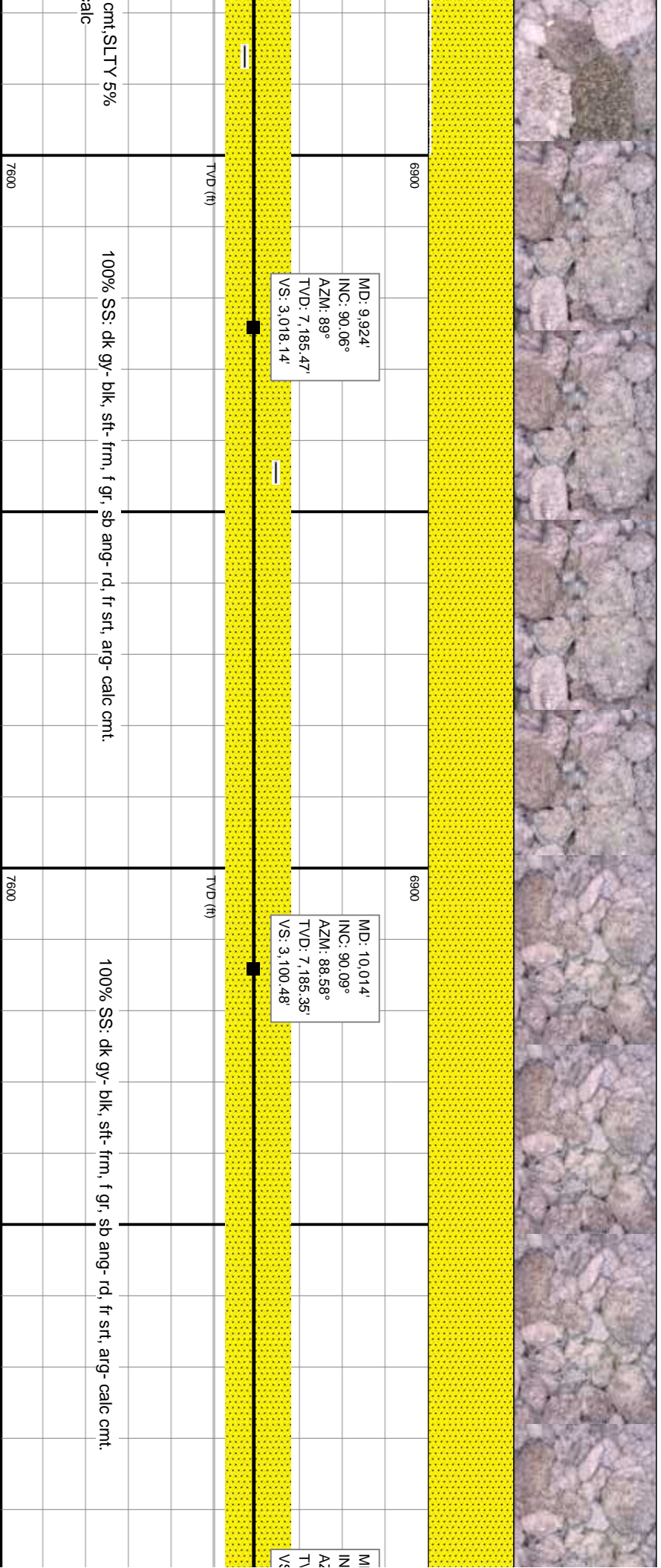
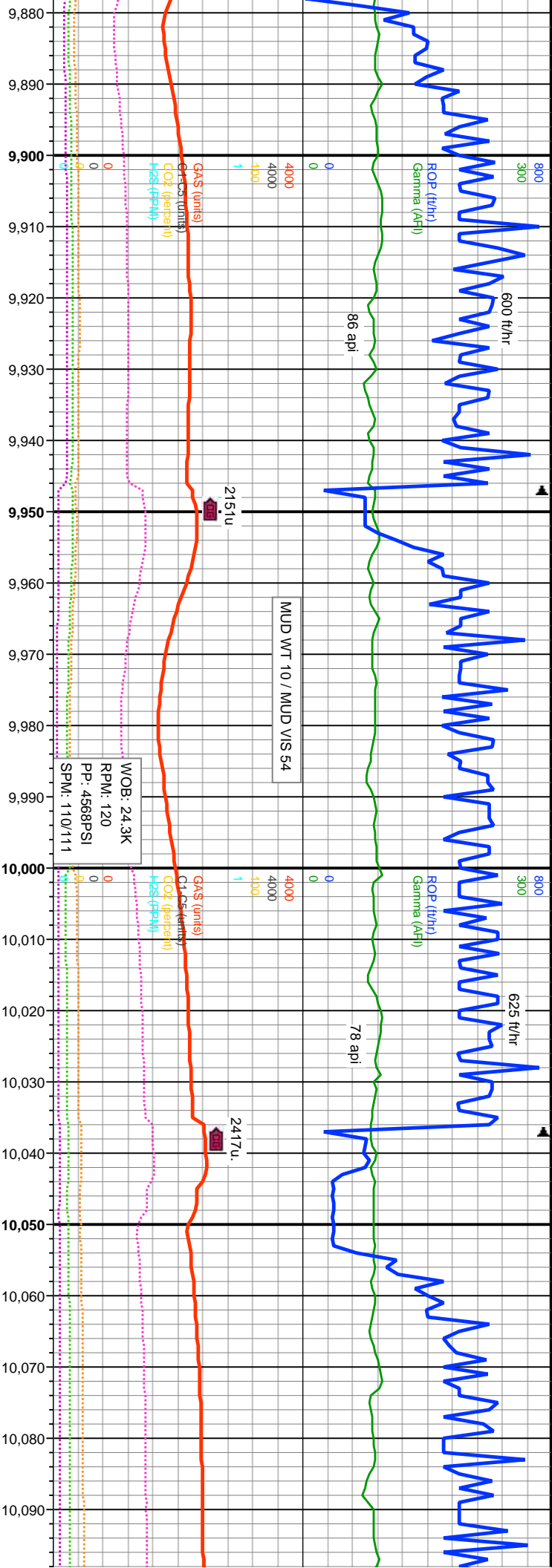


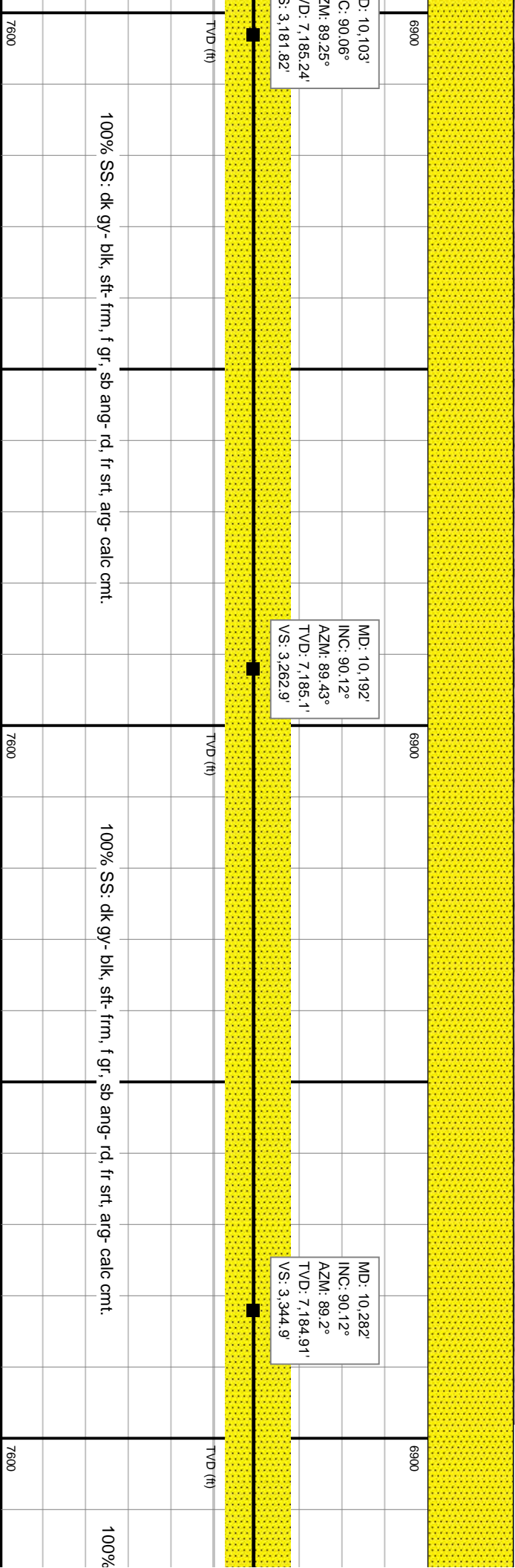
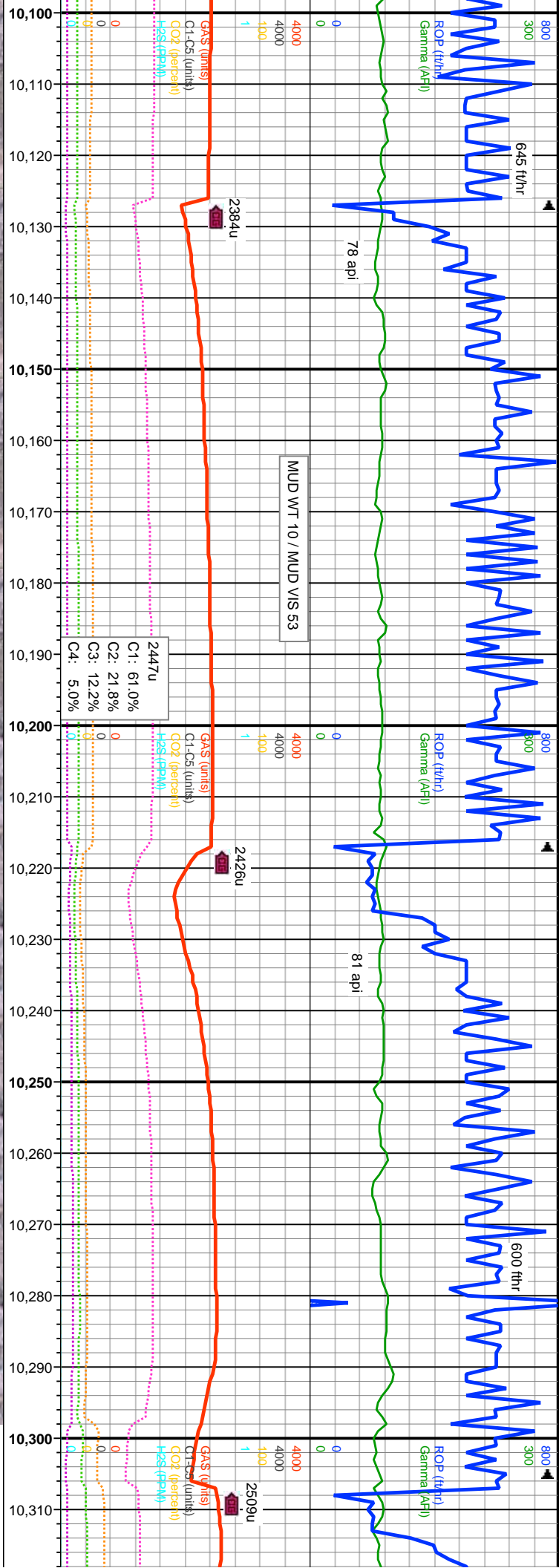


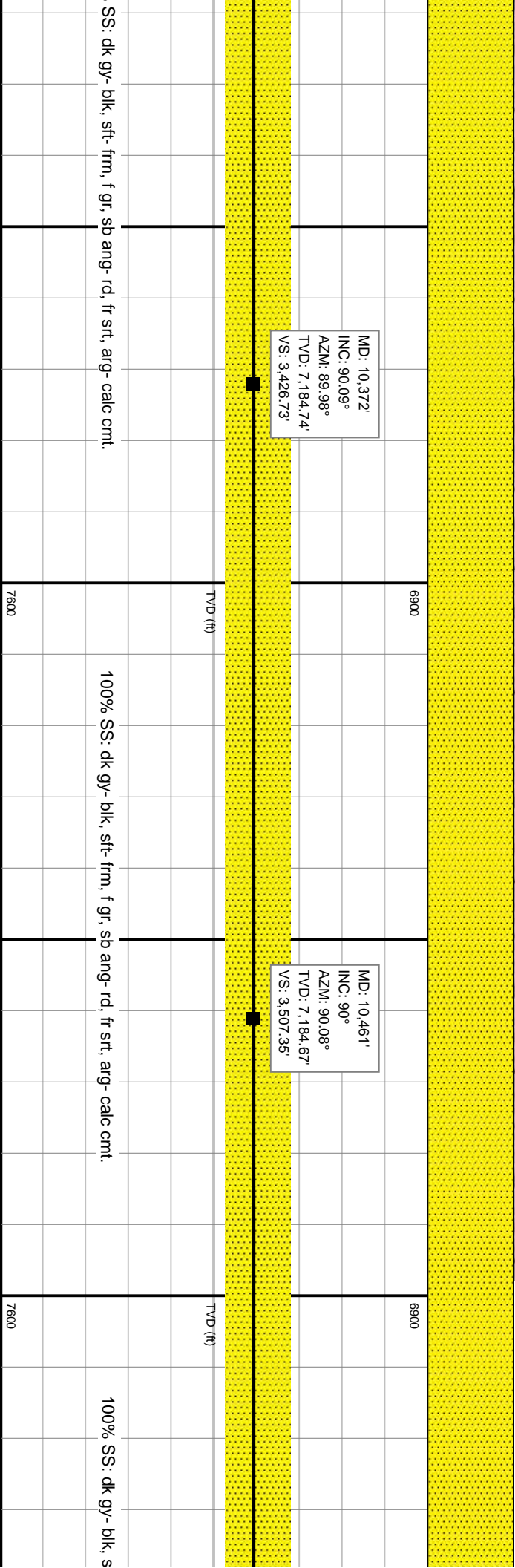
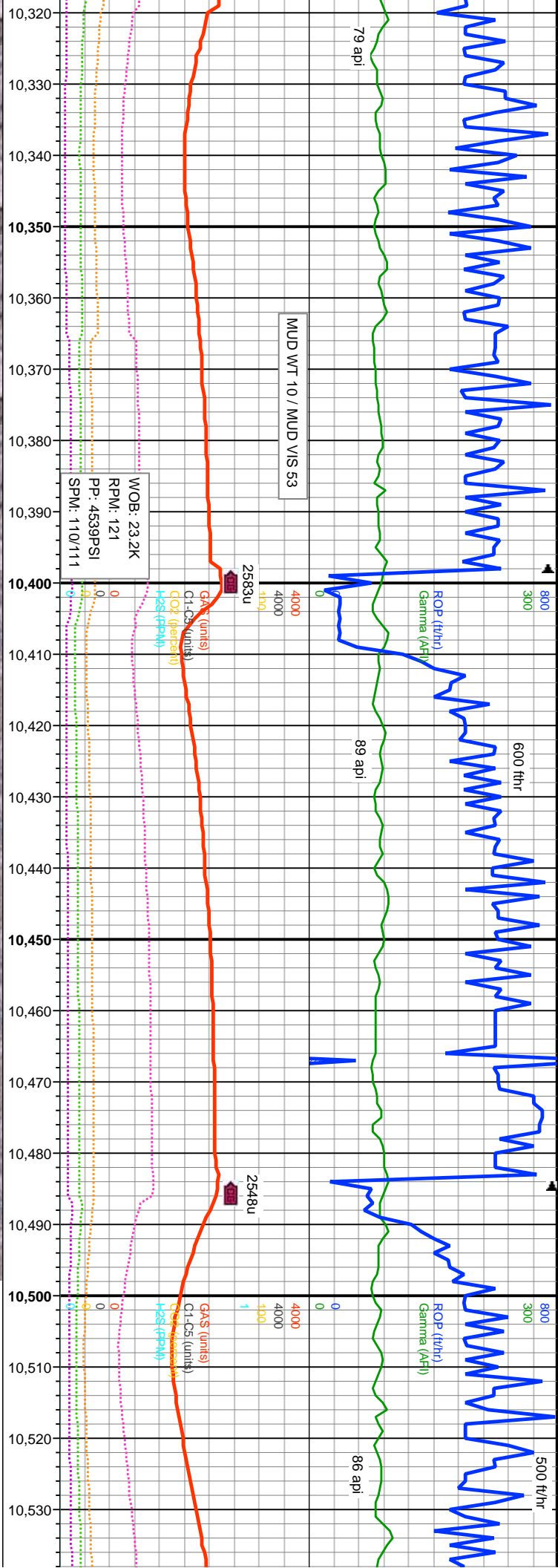


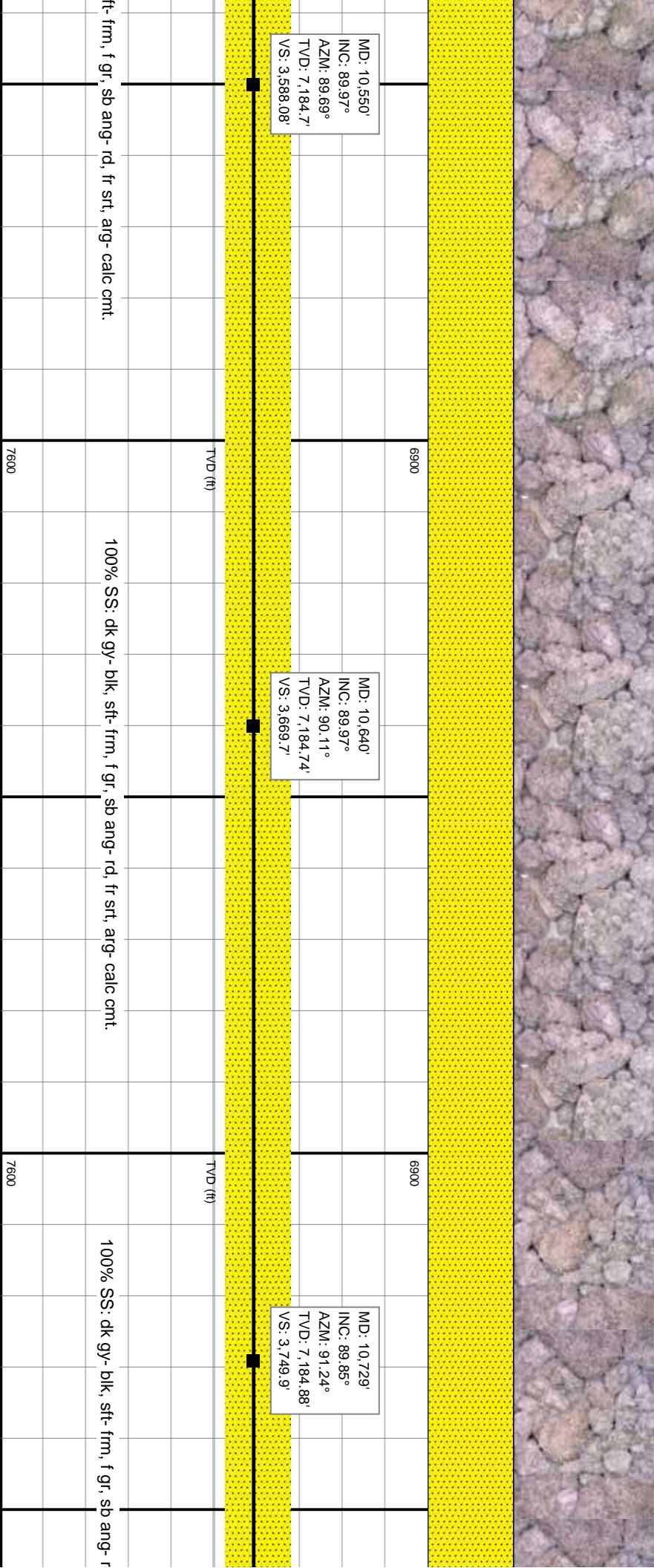
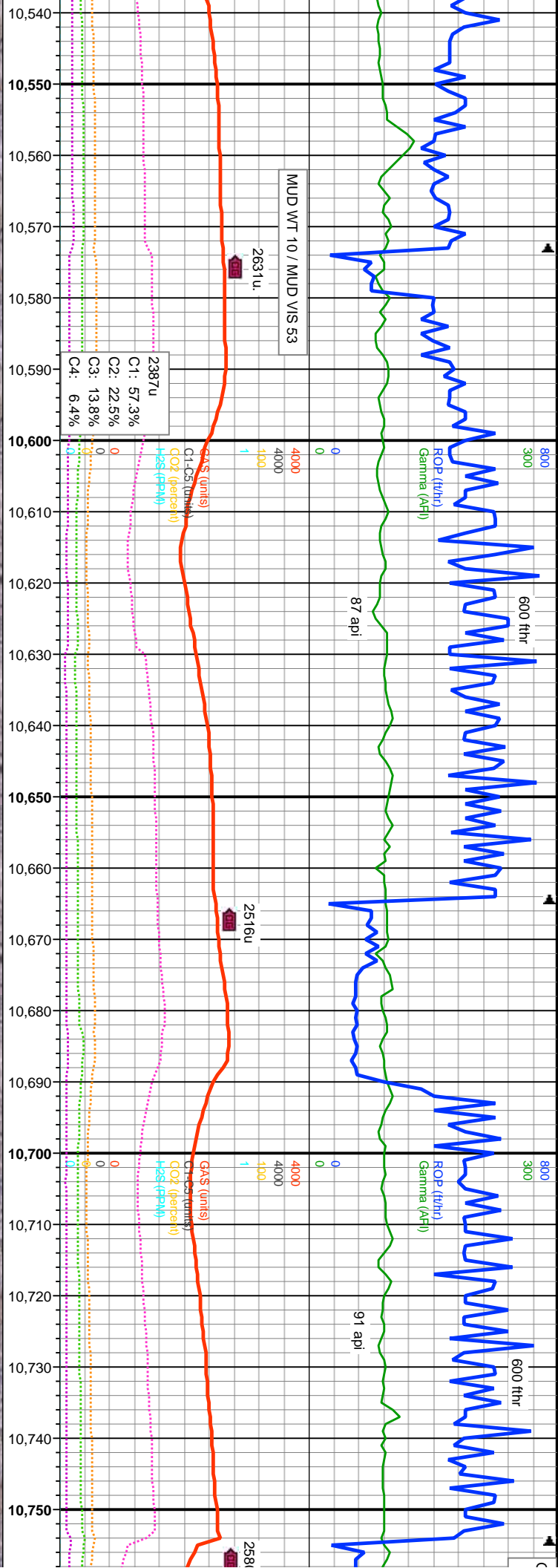


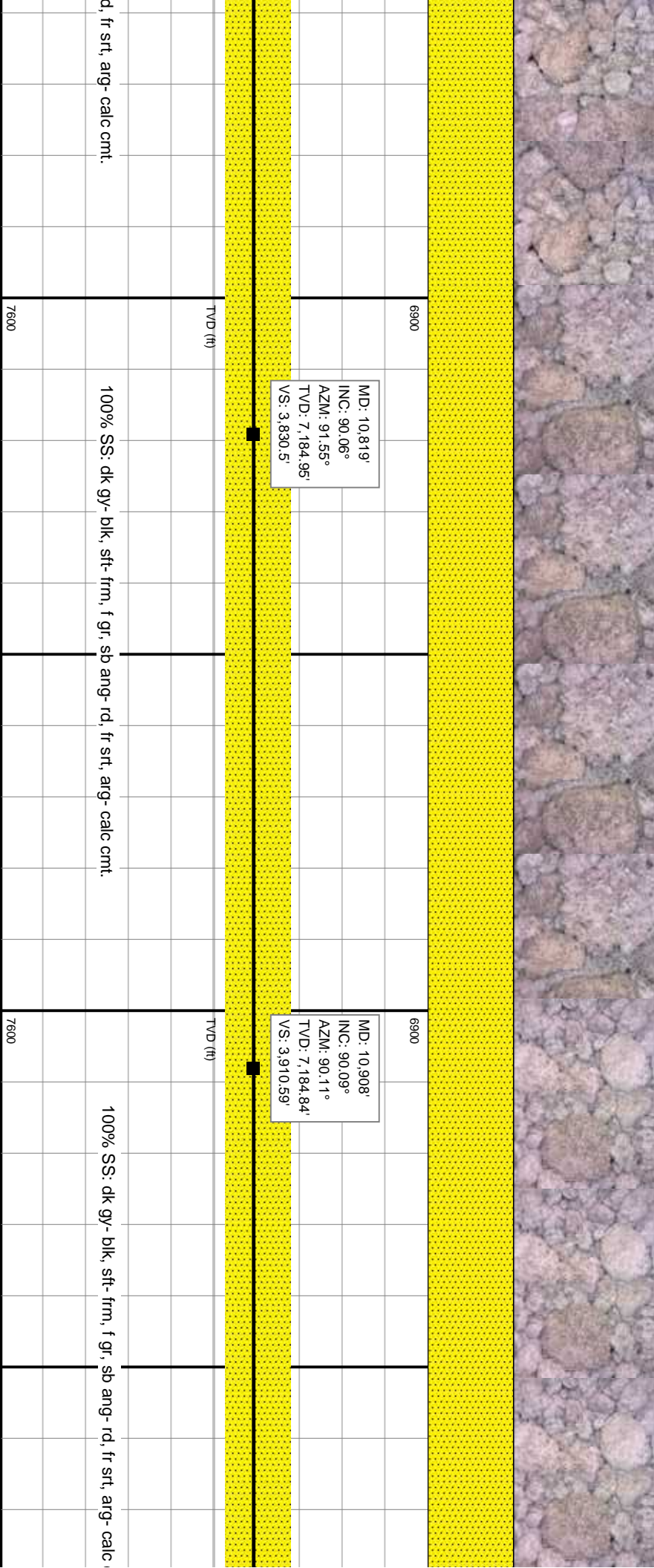
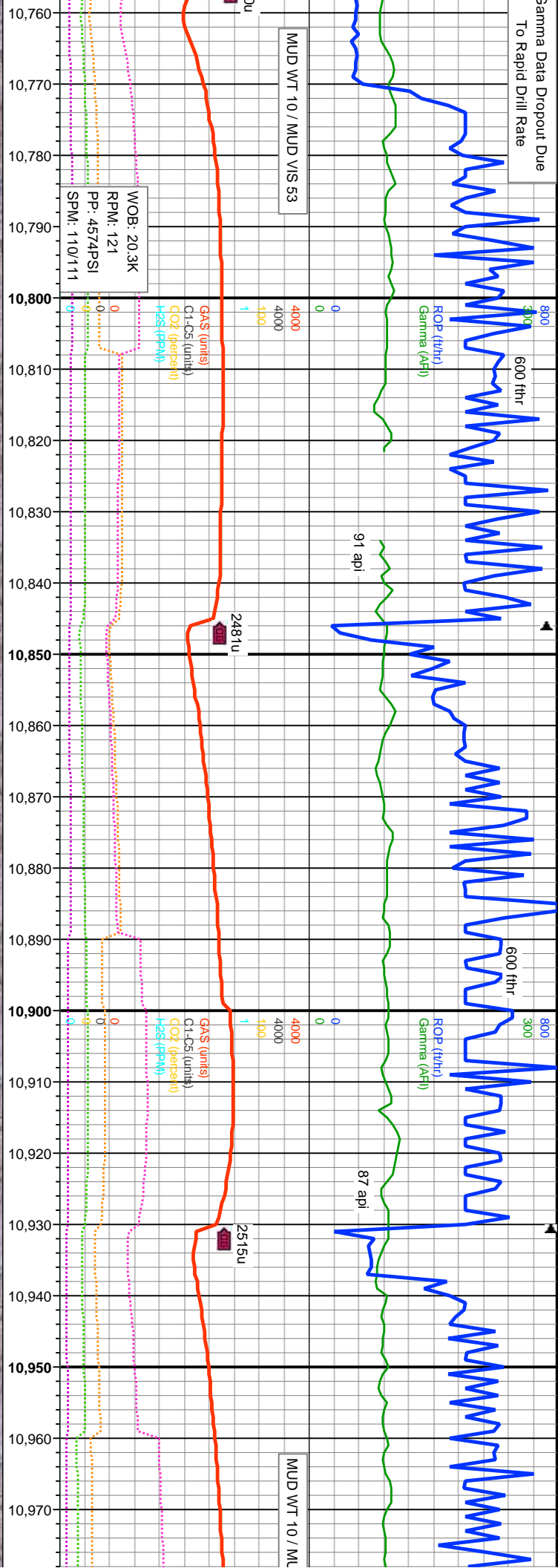


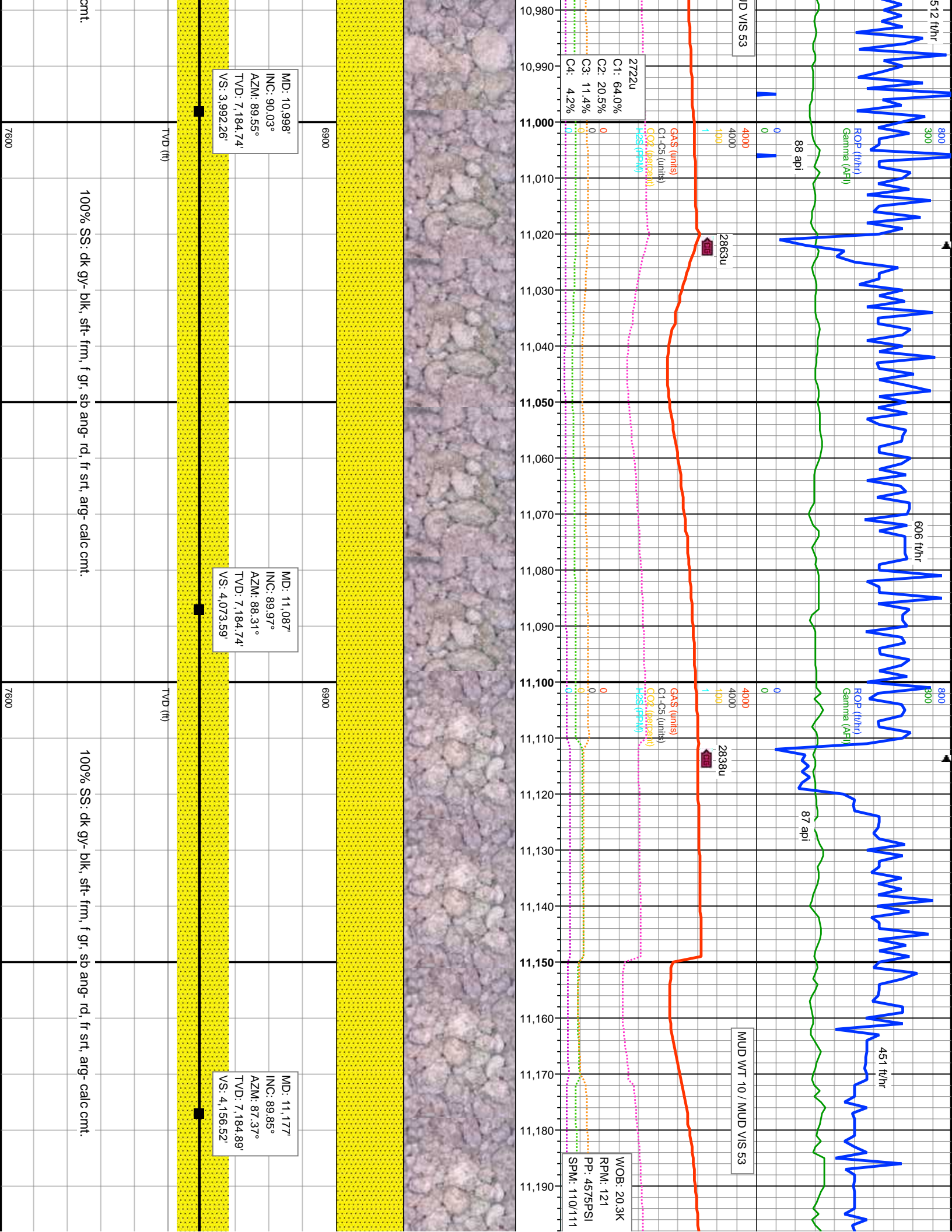




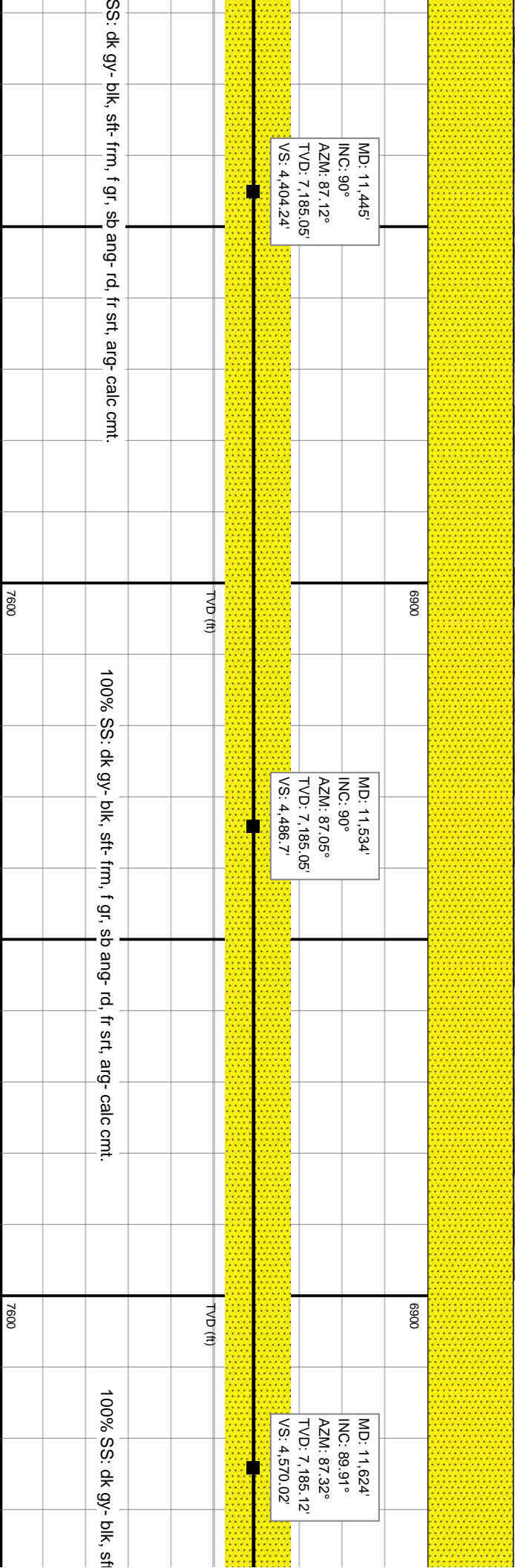
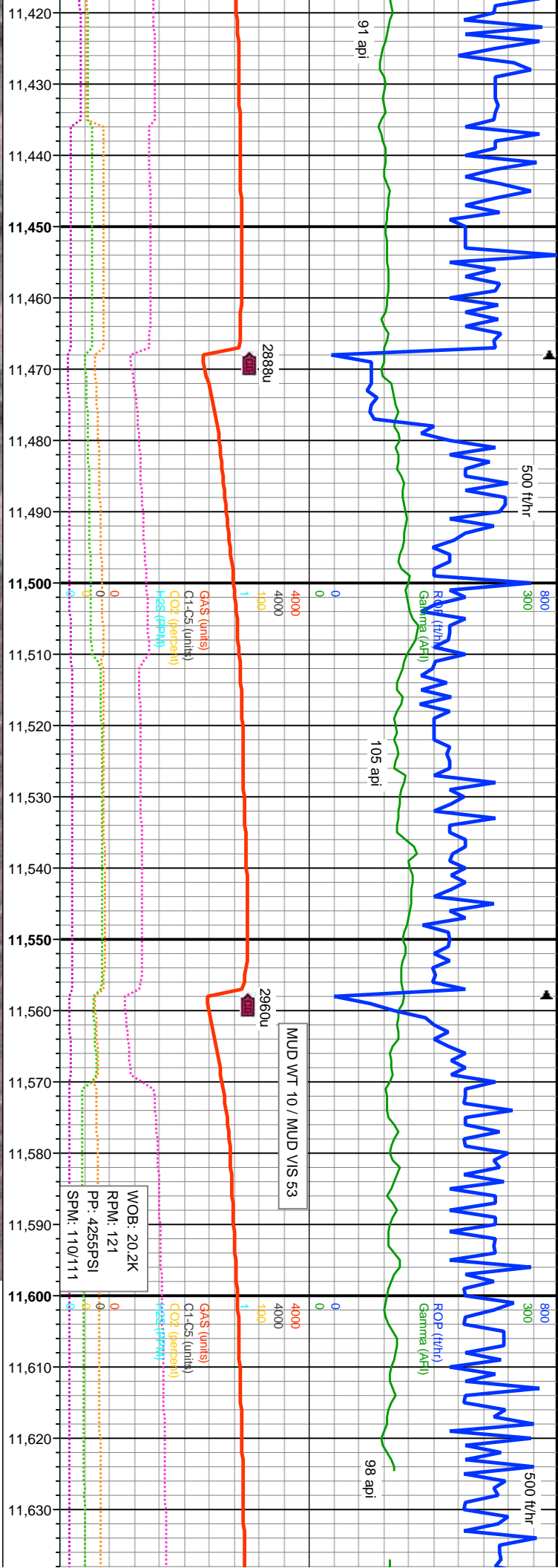


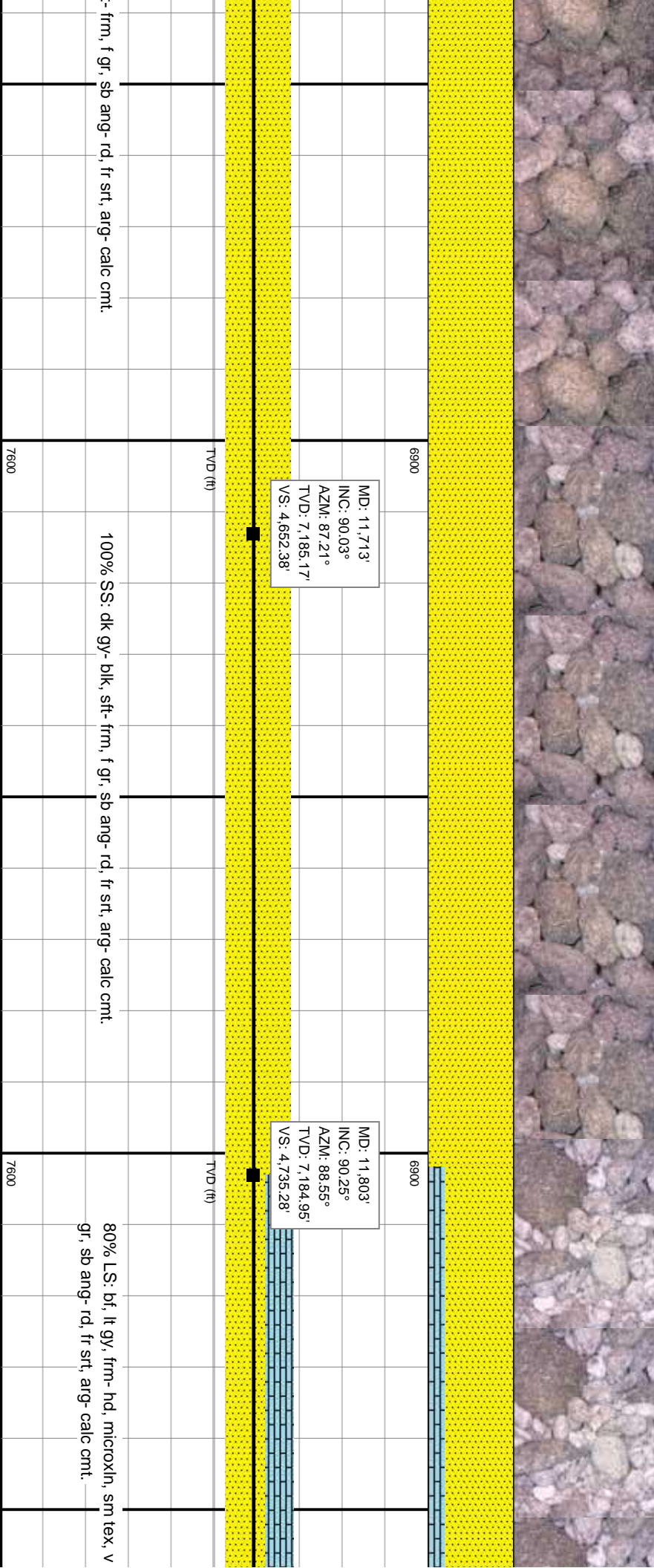
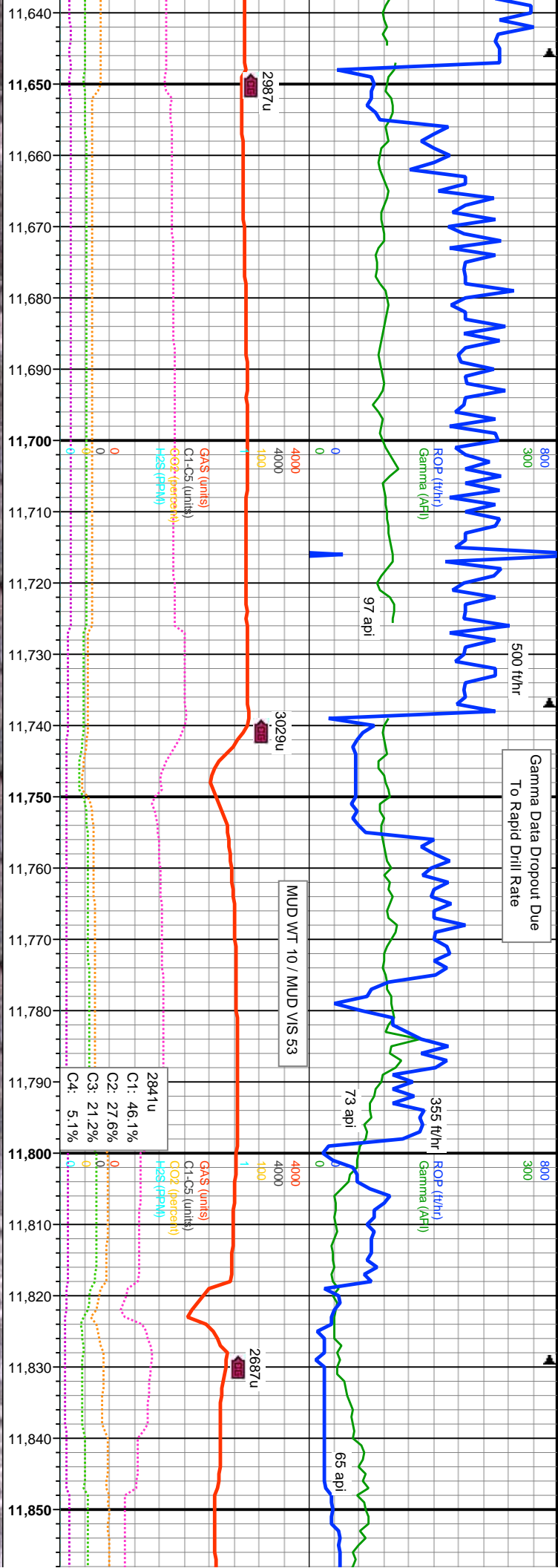


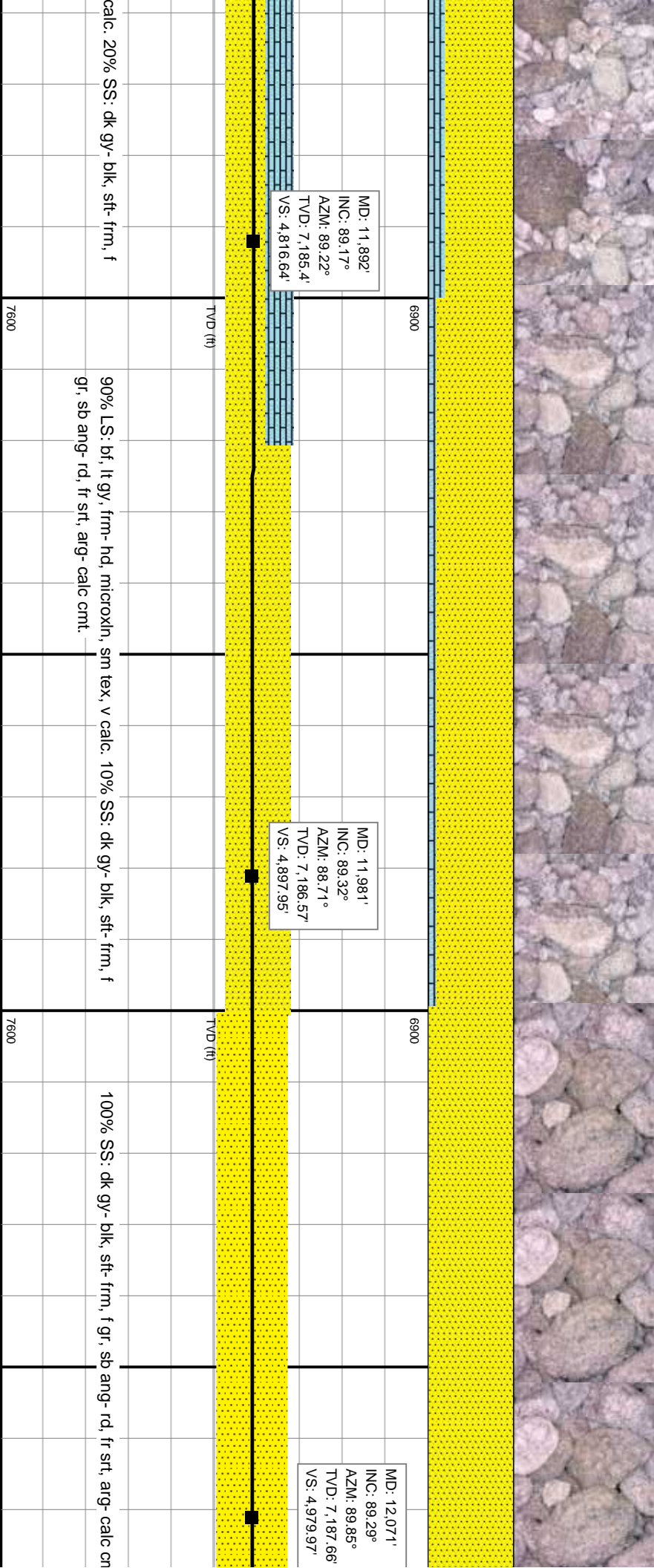
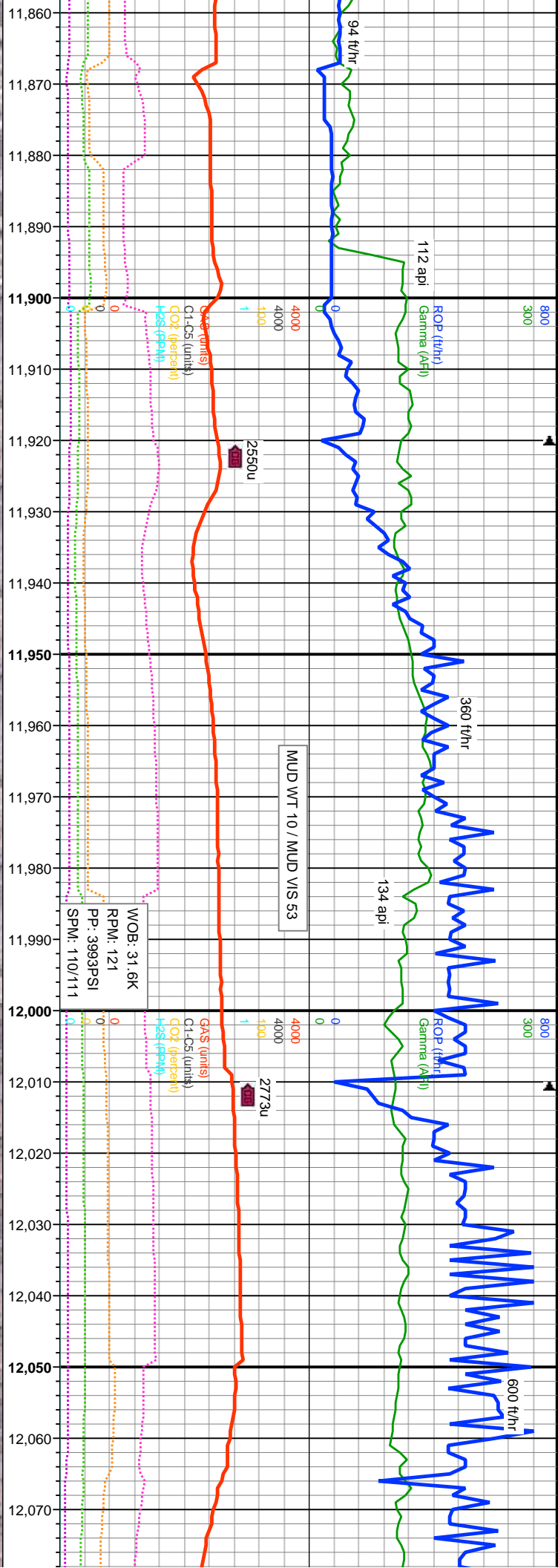


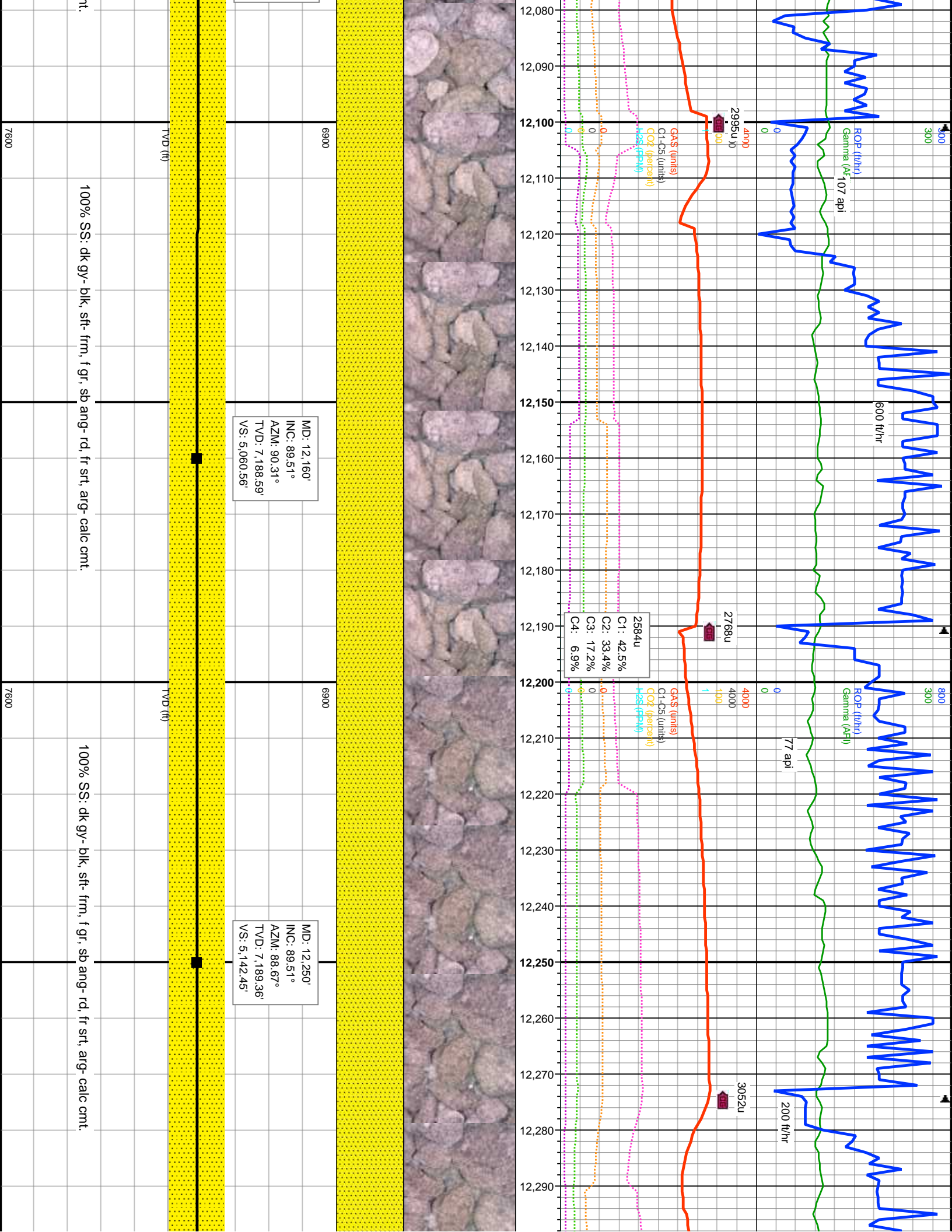


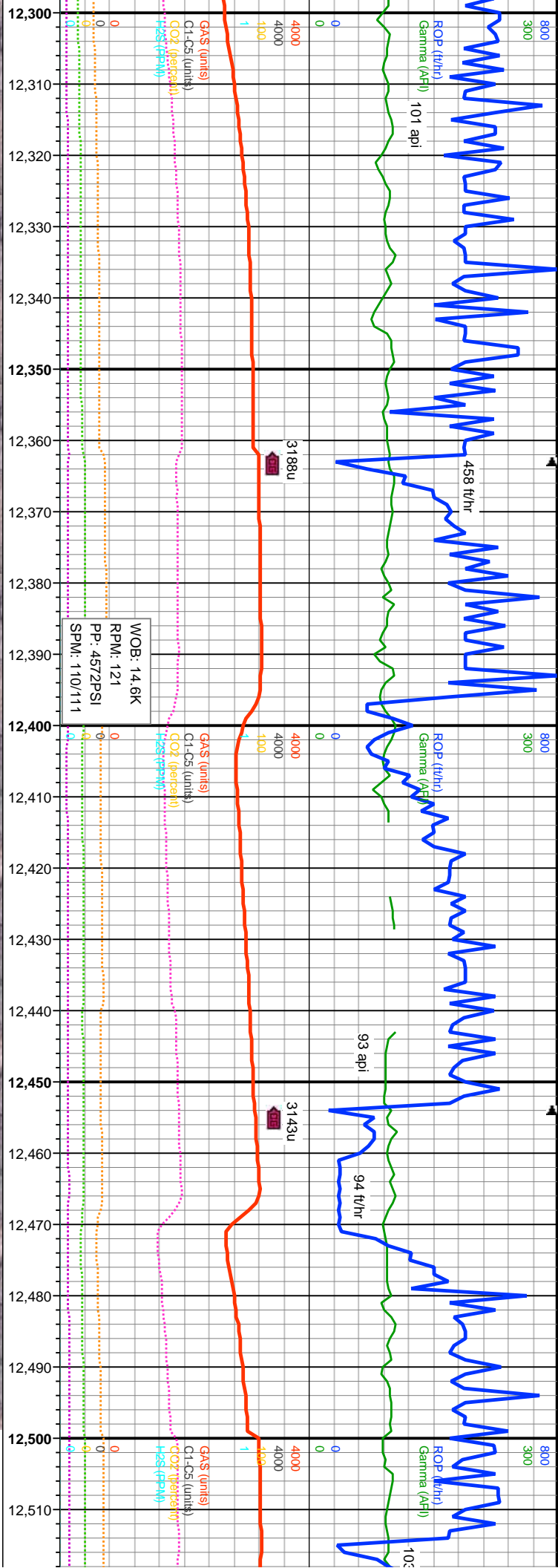






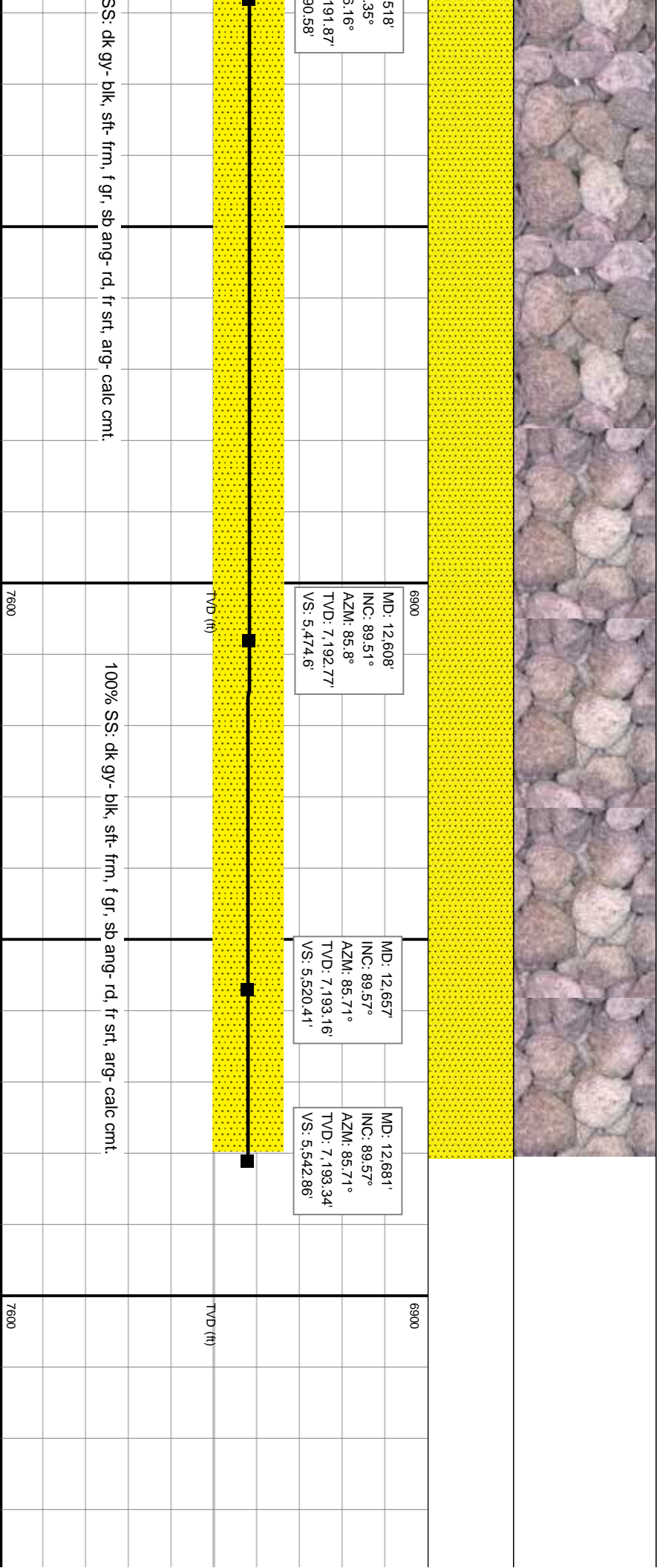
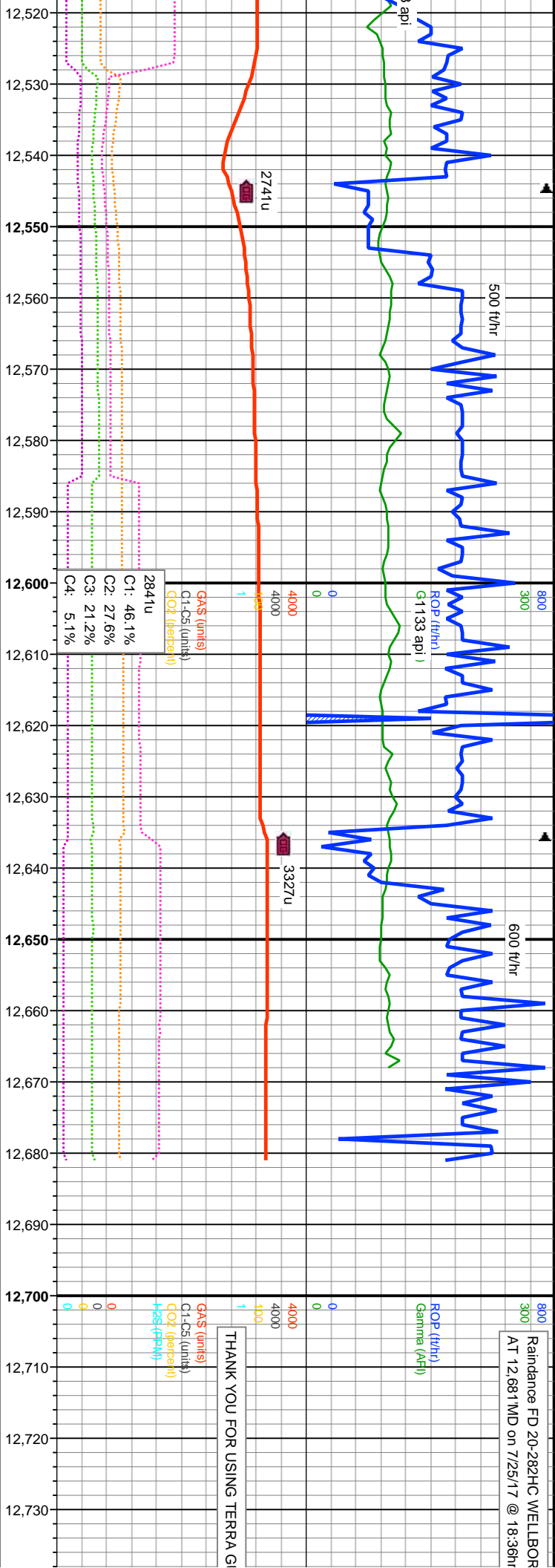






6900		6900		6900	
MD: 12.339'		MD: 12.429'		MD: 12.	
INC: 89.51°		INC: 89.45°		INC: 89	
AZM: 87.43°		AZM: 86.64°		AZM: 8	
TVD: 7,190.12'		TVD: 7,190.94'		TVD: 7.	
VS: 5,224.32'		VS: 5,307.73'		VS: 5.3	

6900		6900		6900	
TVD (ft)		TVD (ft)		TVD (ft)	
100% SS: dk gy- blk, sft- frm, f gr, sb ang- rd, fr srt, arg- calc cnt.		100% SS: dk gy- blk, sft- frm, f gr, sb ang- rd, fr srt, arg- calc cnt.		100% :	
7600		7600		7600	



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