



Scale: 5" / 100'  
Measured Depth Log

Well Name Kodak North 28-162HN

Location SENW SECTION 26 T6N R67W

State COLORADO

County WELD

Country USA

Rig Number PRECISION 460

API Number 05-123-39344

AFE # 16DC0084

Geographic Region DJ BASIN

Field WATTENBERG

Spud Date 12/1/2016

Drilling Completed 1/27/2017

Surface Coordinates SENW Sec 26-T6N-R67W

2352' FNL x 1984' FWL

Bottom Hole Coordinates SENE Sec 28-T6N-R67W

2222' FNL x 310' FWL

Ground Elevation 4760'

K.B. Elevation 4781.6'

Logged Interval 6000' To 14730'

Total Depth 14730'

Formation NIOBRARA B CHALK

Type of Drilling Fluid OBM

## Operator

Company Great Western Oil and Gas

Address 1801 Broadway, Ste 500  
Denver, CO 80202

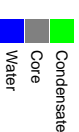
## Geologist

Name Kevin Donahue and Jeff Lacy

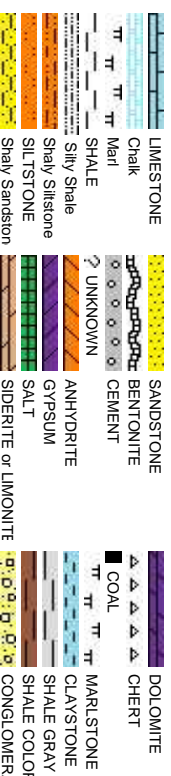
Company Terra Guidance

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

## Zone Color Coding



## Rock Types



## Accessories

### Fossils

F FOSSIL	- ARGILLACEOUS	GLAUCONITE	
GASTROPOD	/ ARGILLITE GRAIN	GYPSIFEROUS	
ALGAE	Ø OOLITE	B BENTONITE	HEAVY MINERAL
AMPHIPORA	O OSTRACOD	BITUMENOUS SUBSTANCE	K KAOLIN
BELEMNITE	PELECYPOD	BRECCIA FRAGMENTS	MARLSTONE
BIOCLASTIC	PELLET	CALCAREOUS	MINERAL CRYSTALS
BRACHIOPOD	PISOLITE	CARBONACEOUS FLAKES	NODULES
BRIZOZA	PLANT REMAINS	CHTDK	PHOSPHATE PELLETS
CEPHALOPOD	PLANT SPORES	CHTLT	P PYRITE
CORAL	SCAPHOPOD	COAL - THIN BEDS	SALT CAST
CRINOID	STROMATOPOROID	DOLOMITIC	SANDY
ECHINOID		FELDSPAR	SILICEOUS
FISH		FERRUGINOUS PELLETS	SILTY
FORAMINIFERA	ANHYDRITIC	FERRUGINOUS	TUFFACEOUS
			SILTSTONE STRINGER

### Stringer

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 Symbols

### Oil Show

ORGANIC
P PINPOINT
V VUGGY
DEAD
EVEN
QUESTIONABLE
SPOTTED STAINING

### Engineering

BIT
CASING
CONNECTION (LEFT)
CONNECTION (RIGHT)
CONNECTION GAS
CORE - LOST
CORE - RECOVERED
DST INTERVAL
FAULT
OVERTURNED STRATA
REVERSE FAULT
SIDEWALL CORE (LEFT)
SIDEWALL CORE (RIGHT)
SLIDE
SURVEY
TRIP GAS
WIRELINE TESTED - LEFT
WIRELINE TESTED - RT

### Porosity

E EARTHY
F FENESTRAL
F FRACTURE
INTERCRYSTALLINE
INTEROOLITIC
MOLDIC

### Rounding

L LITHOGRAPHIC
MX MICROXLN
MS MUDSTONE
MS MUDSTONE
PS PACKSTONE
WSS WACKESTONE
ANGULAR
ROUNDED
SUBANG
SUBRND

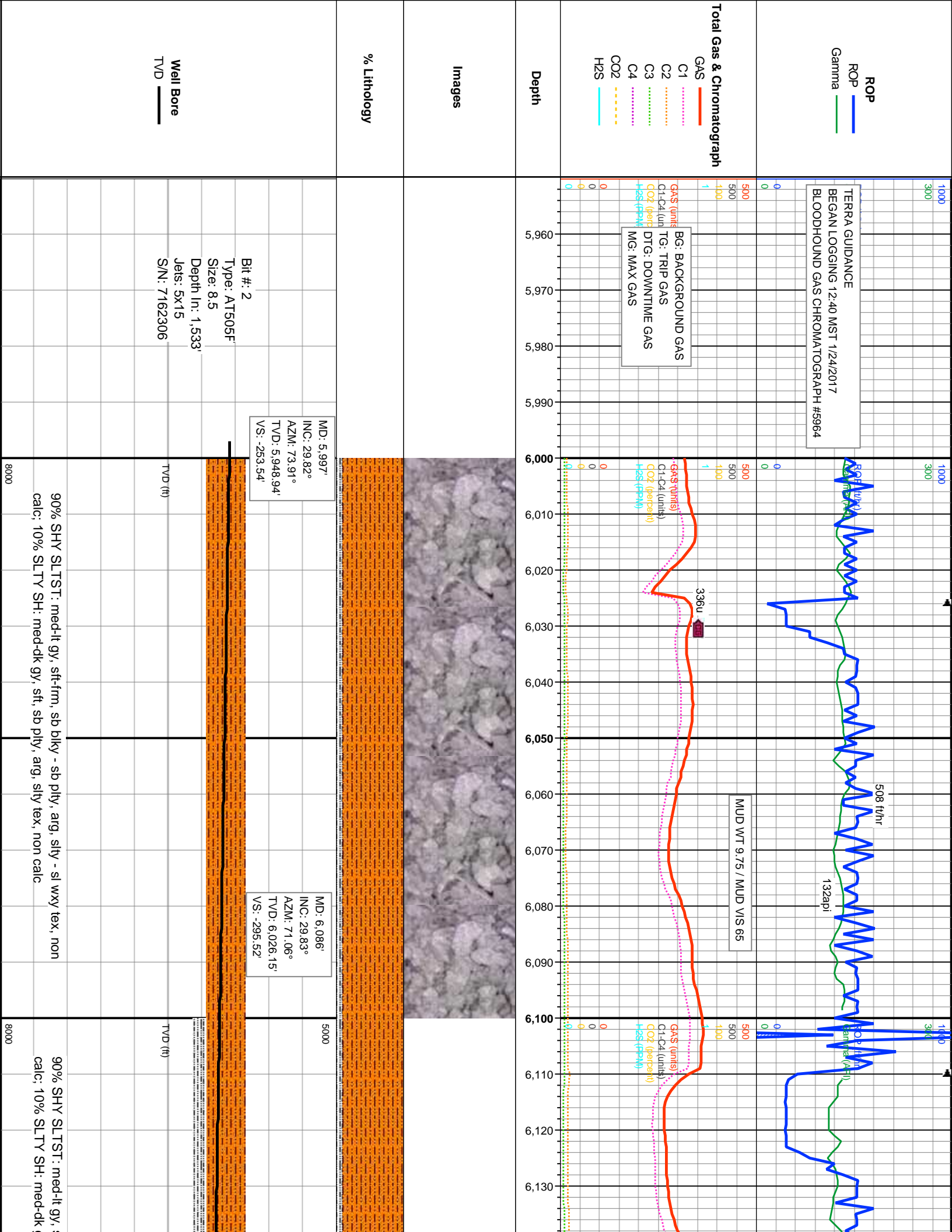
### Textures

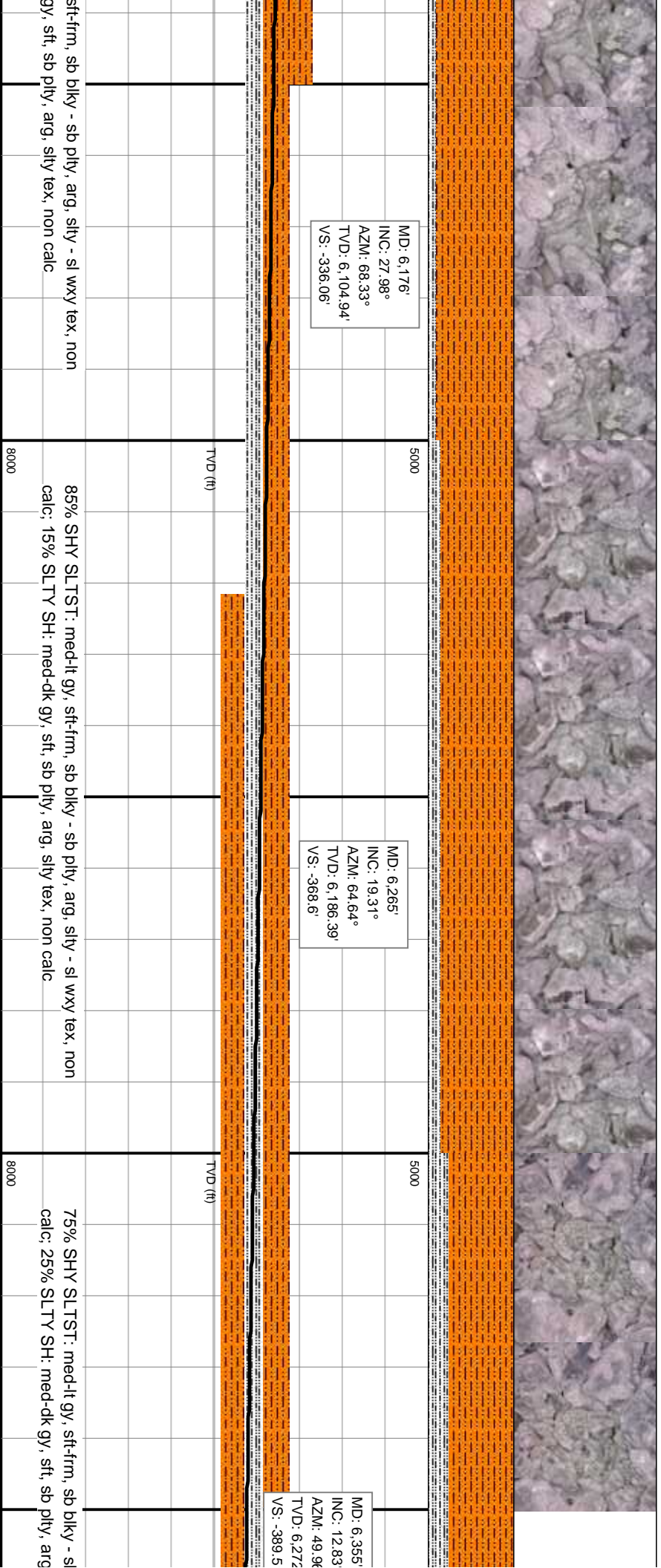
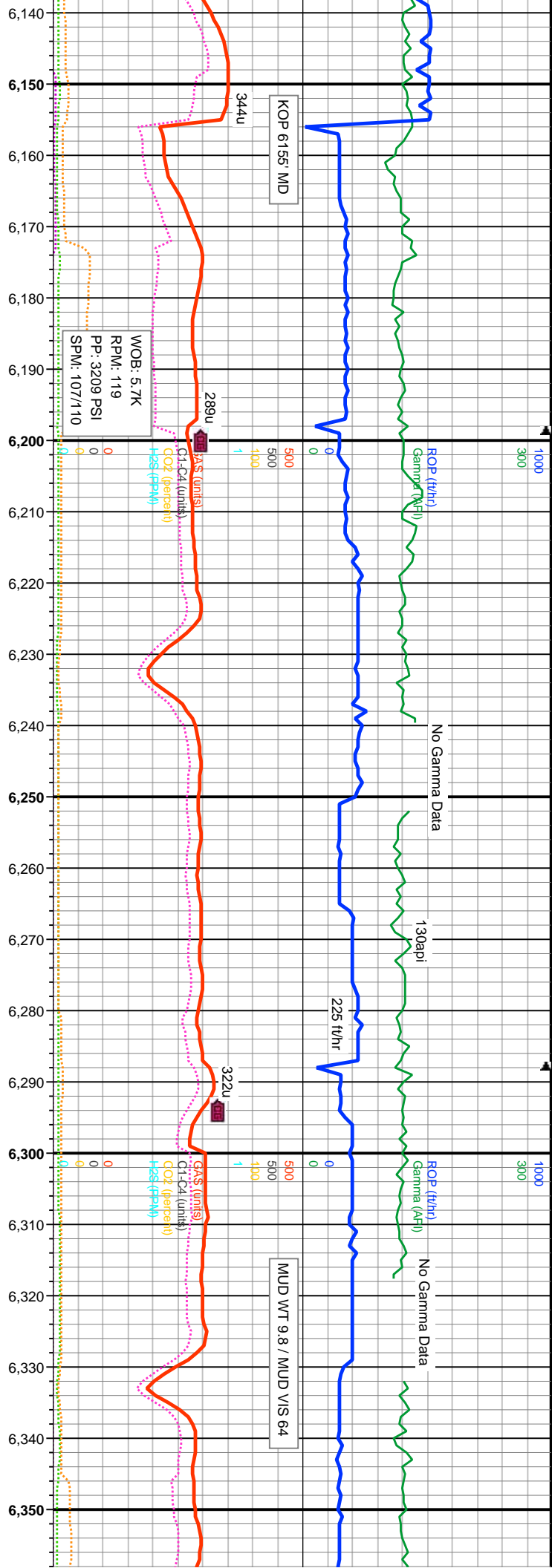
M MODERATE
P POOR
W WELL
B3 BOUNDSTONE
C CHALKY
CX CRYPTOXLN
E EARTHY
FX FINELYXLN
G3 GRANSTONE

### Sorting

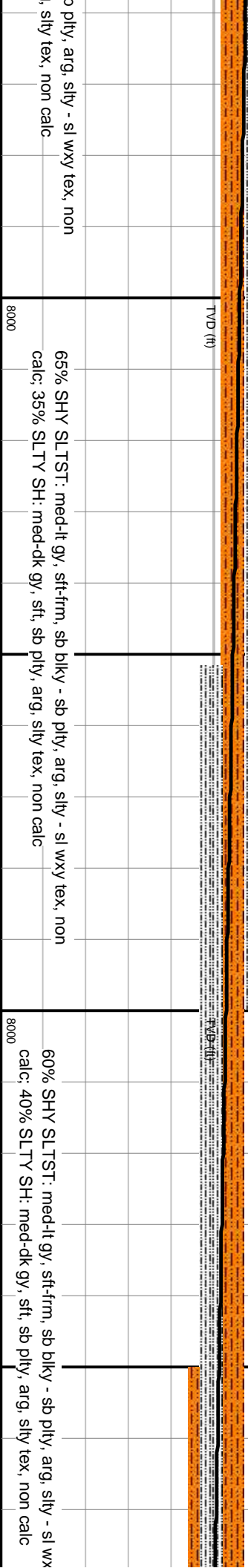
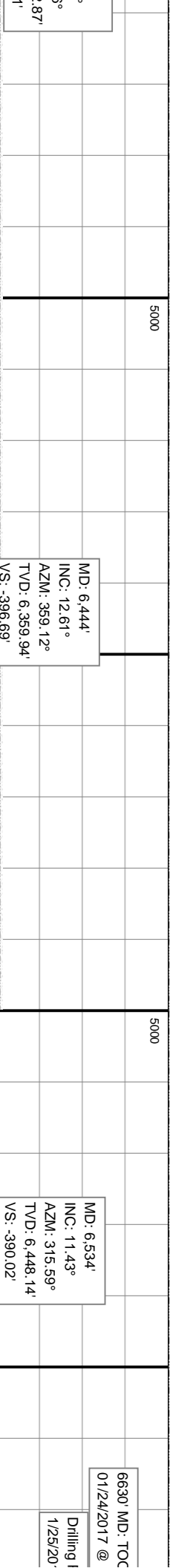
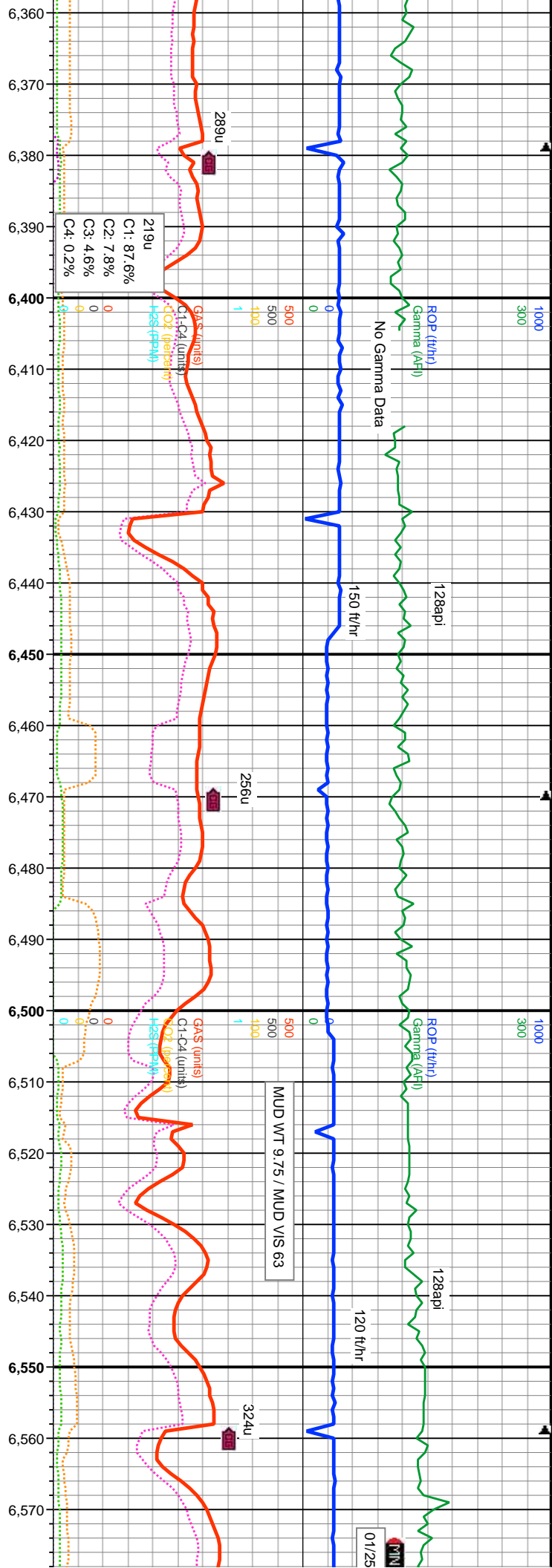


RED  
ATE





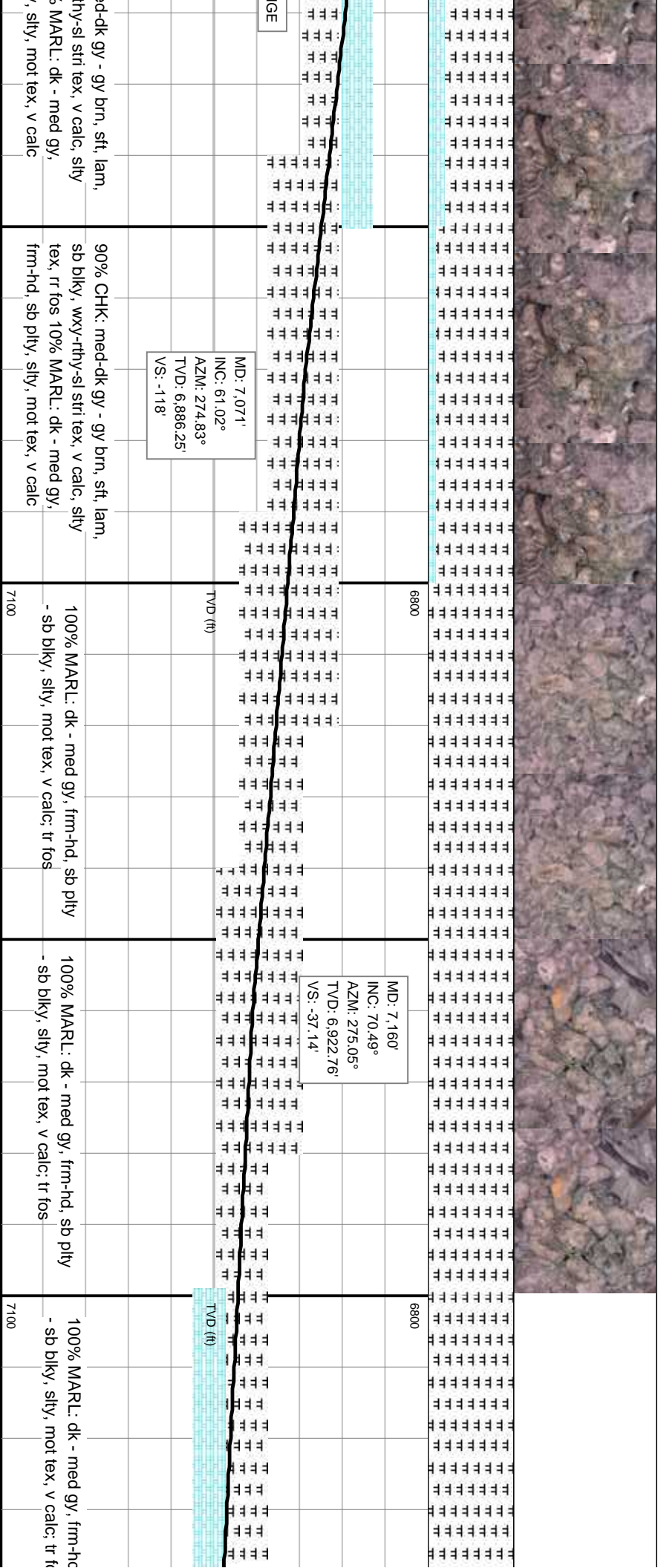
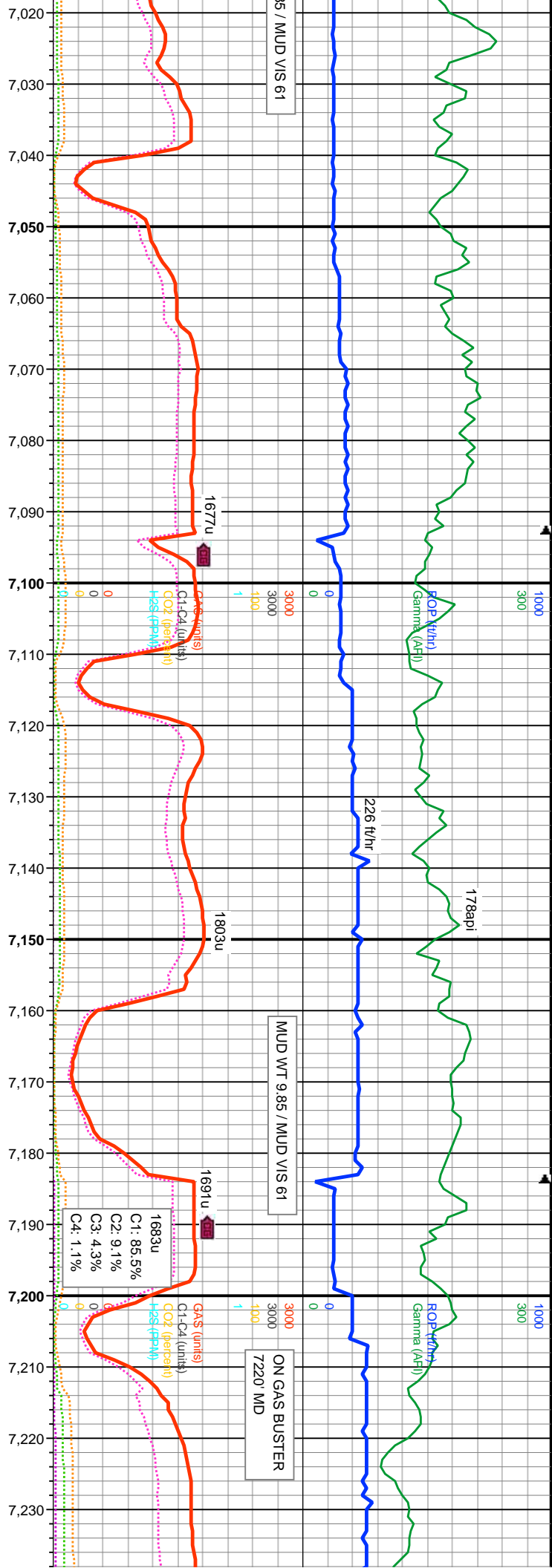






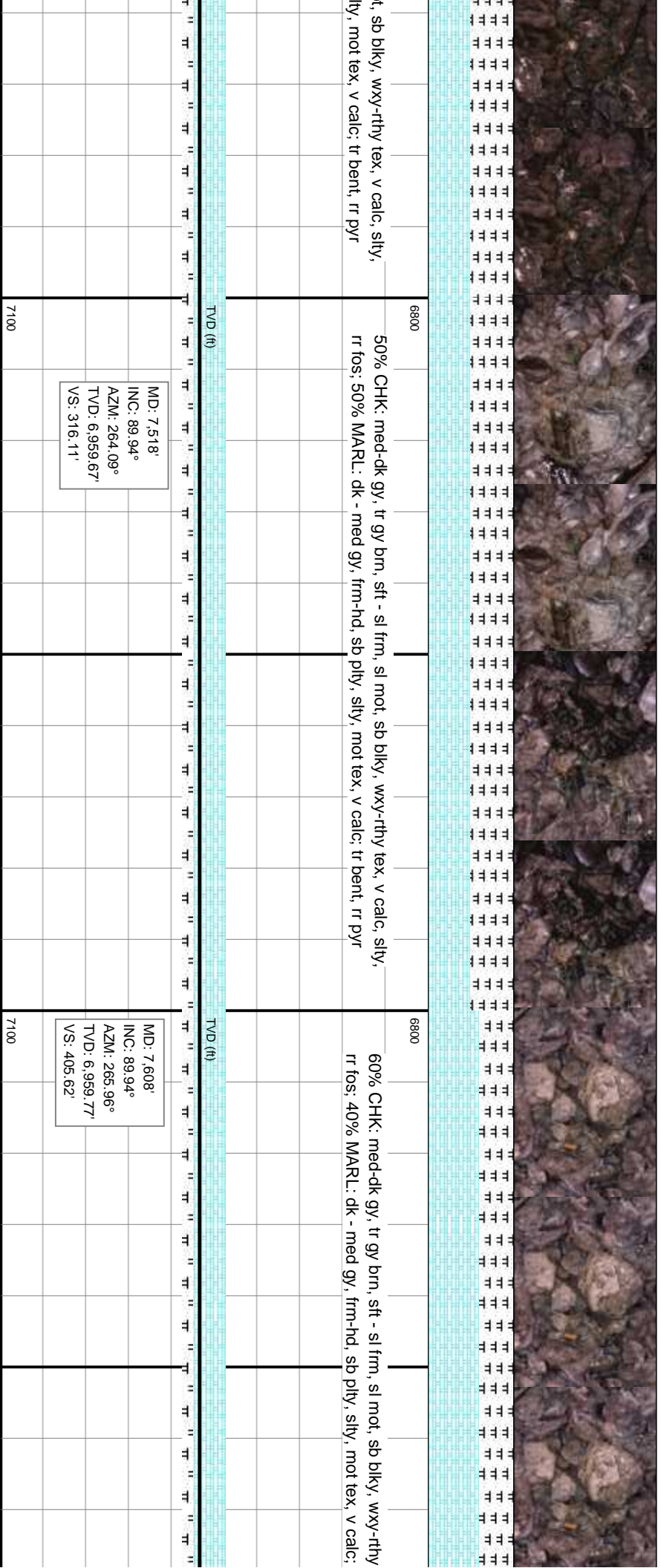
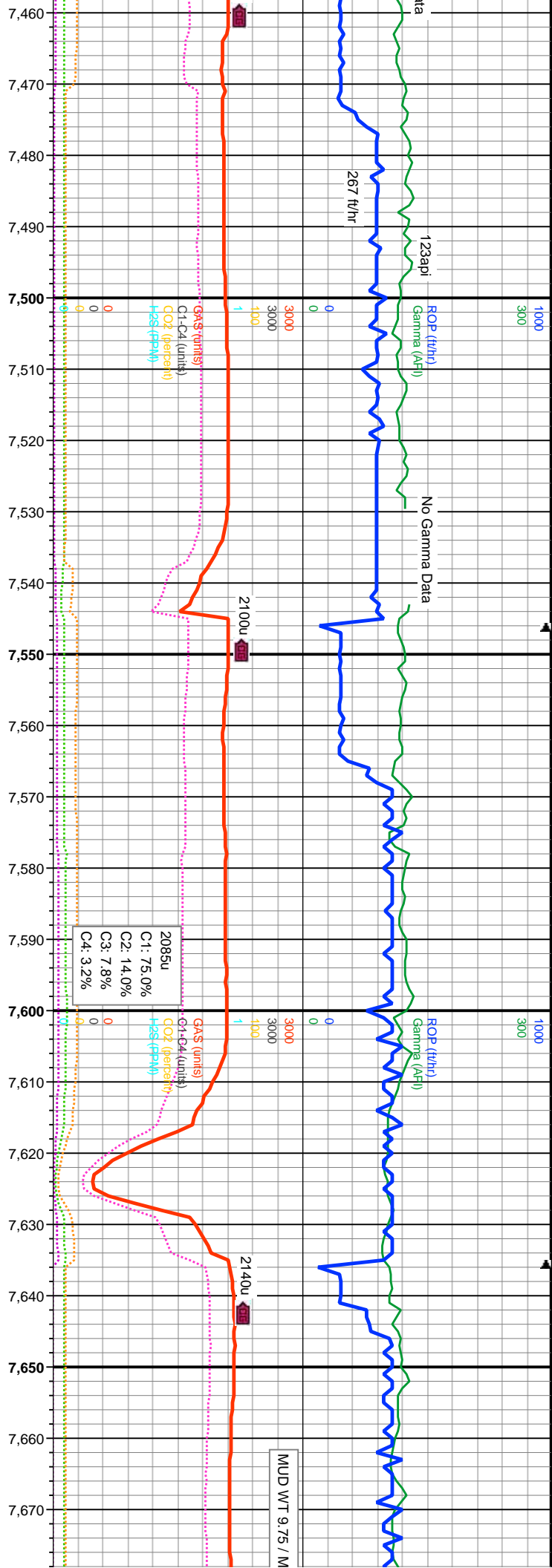




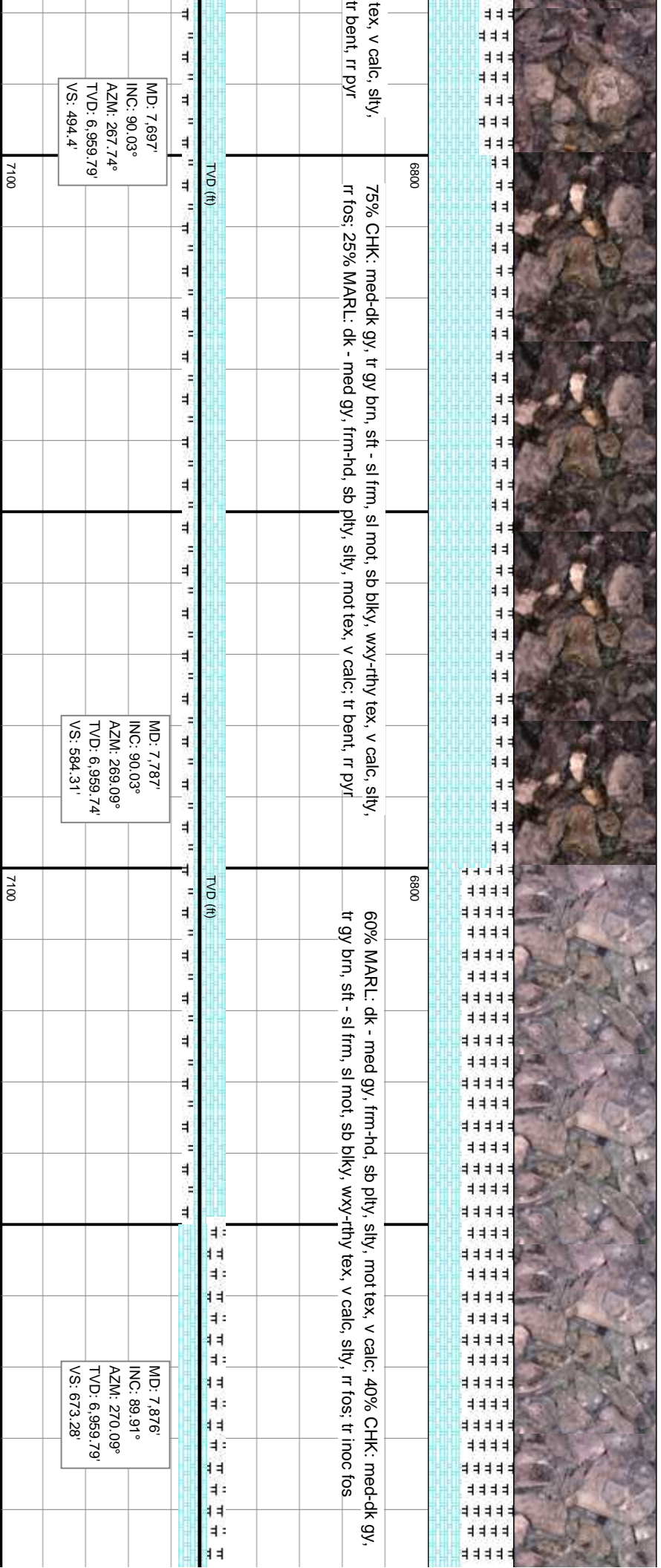
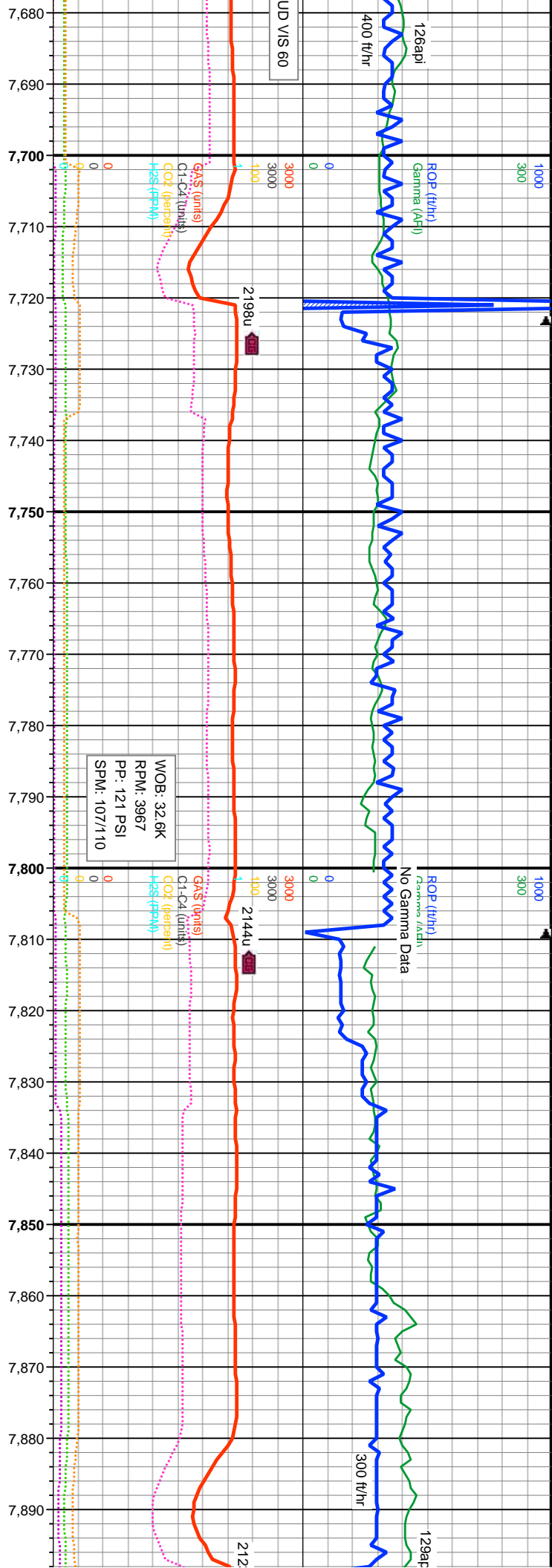




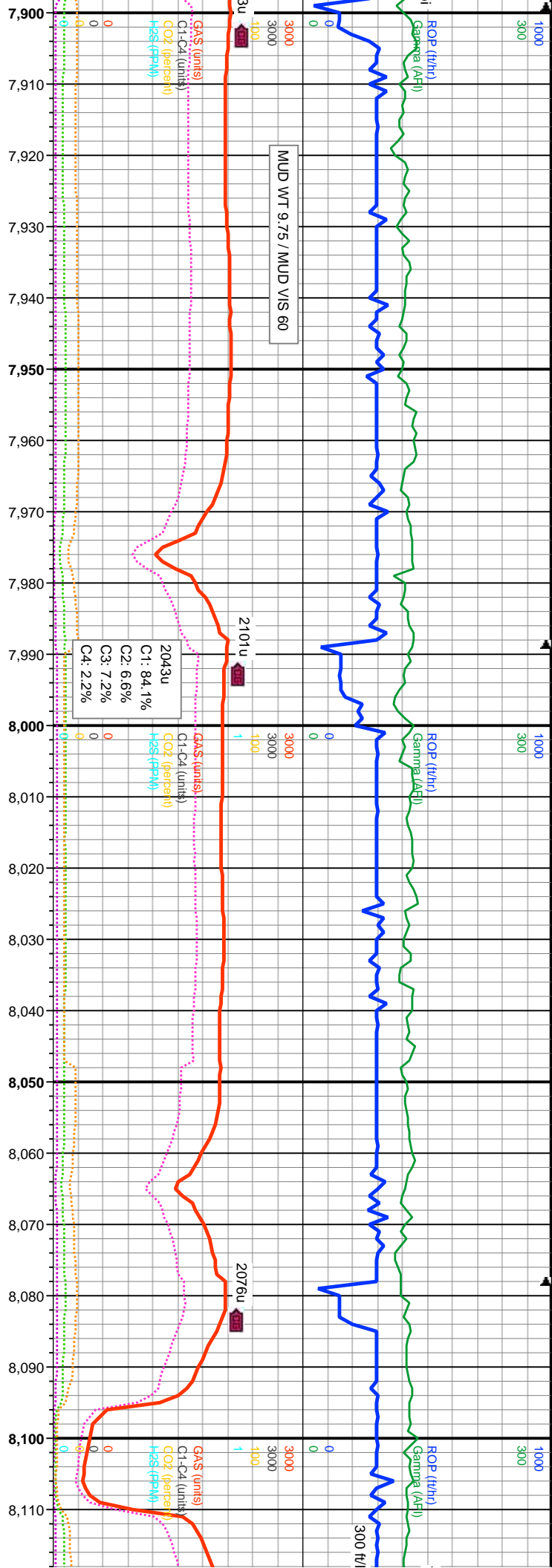












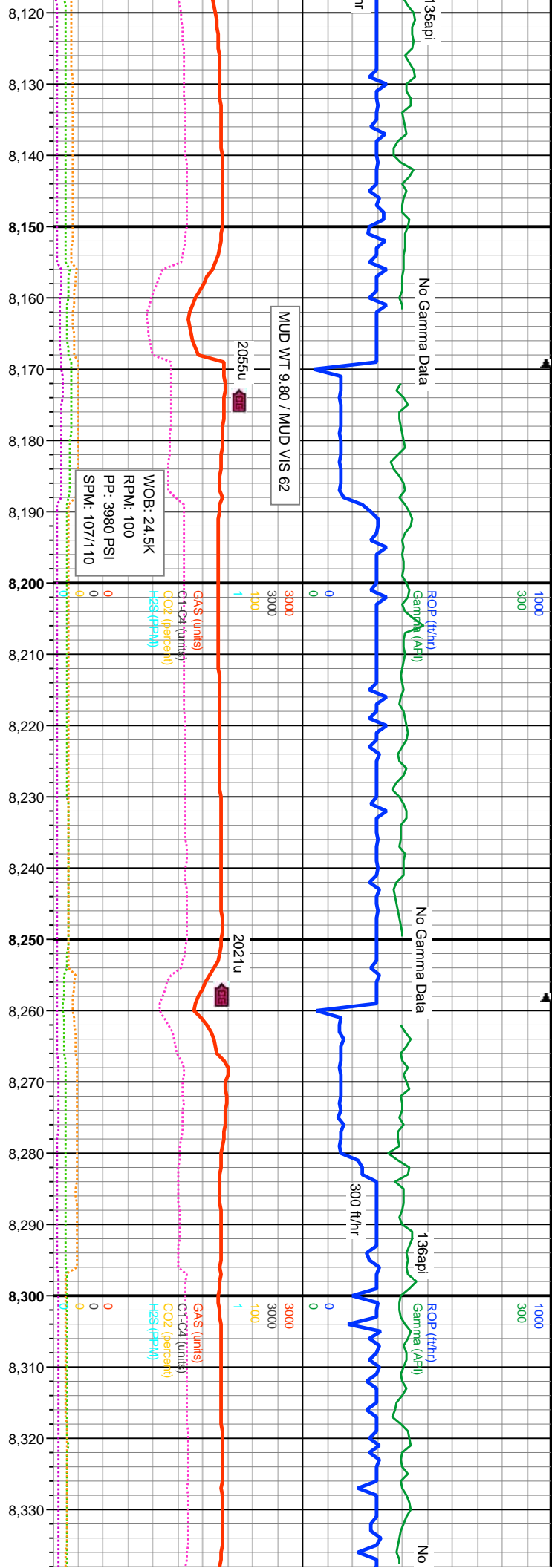
85% MARL: dk - med gy, frm-hd, sb pty, silty, mot tex, v calc; 15% CHK: med-dk gy, tr gy brn, sft - sl frm, sl mot, sb blk, wxy-rthy tex, v calc, silty, abnt fos, rr bent

90% MARL: dk - med gy, frm-hd, sb pty, silty, mot tex, v calc; 10% CHK: med-dk gy, tr gy brn, sft - sl frm, sl mot, sb blk, wxy-rthy tex, v calc, silty, abnt fos, rr bent

90% MARL: dk - med gy, frm-hd, sb pty, silty, mot tex, v calc; 10% CHK: med-dk gy, tr gy brn, sft - sl frm, sl mot, sb blk, wxy-rthy tex, v calc, silty, abnt fos, rr bent

MD: 7,965'  
INC: 89.94°  
AZM: 270.23°  
TVD: 6,959.91'  
VS: 762.27'

MD: 8,055'  
INC: 89.88°  
AZM: 268.97°  
TVD: 6,960.05'  
VS: 852.25'



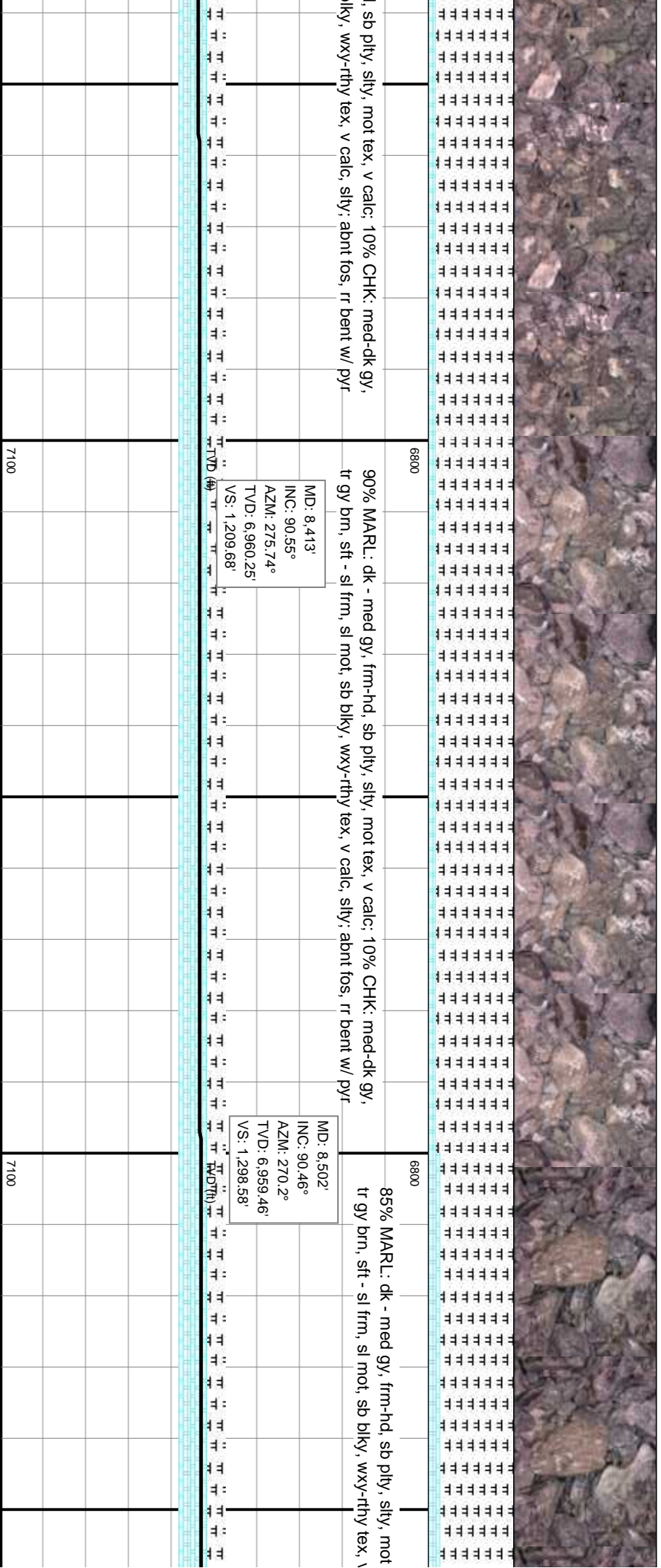
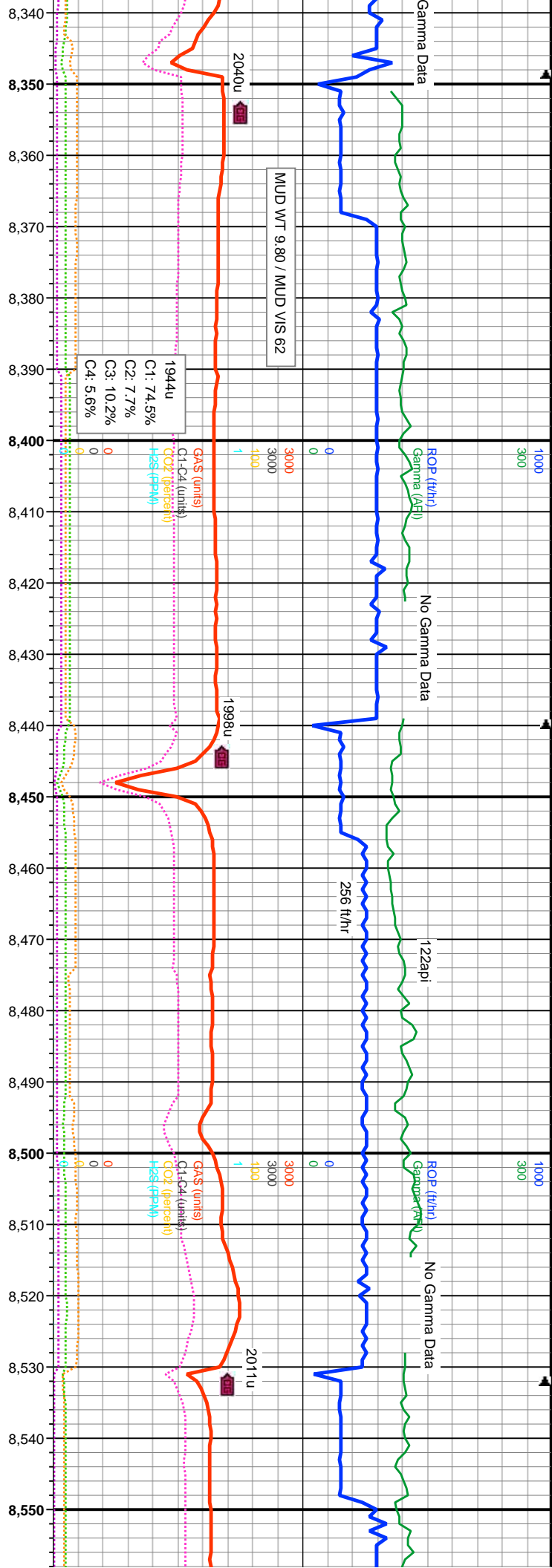
dk - med gy, frm-hd, sb pty, sily, mot tex, v calc; 10% CHK: med-dk gy, - sl frm, sl mot, sb blkly, wxy-rthy tex, v calc, sily; abnt fos, rr bent	6800	90% MARL: dk - med gy, frm-hd, sb pty, sily, mot tex, v calc; 10% CHK: med-dk gy, tr gy brn, sft - sl frm, sl mot, sb blkly, wxy-rthy tex, v calc, sily; abnt fos, rr bent w/ pyr	6800
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MD: 8,144'  
INC: 89.78°  
AZM: 267°  
TVD: 6,960.31'  
VS: 941.12'

MD: 8,234'  
INC: 89.91°  
AZM: 270.01°  
TVD: 6,960.56'  
VS: 1,031.03'

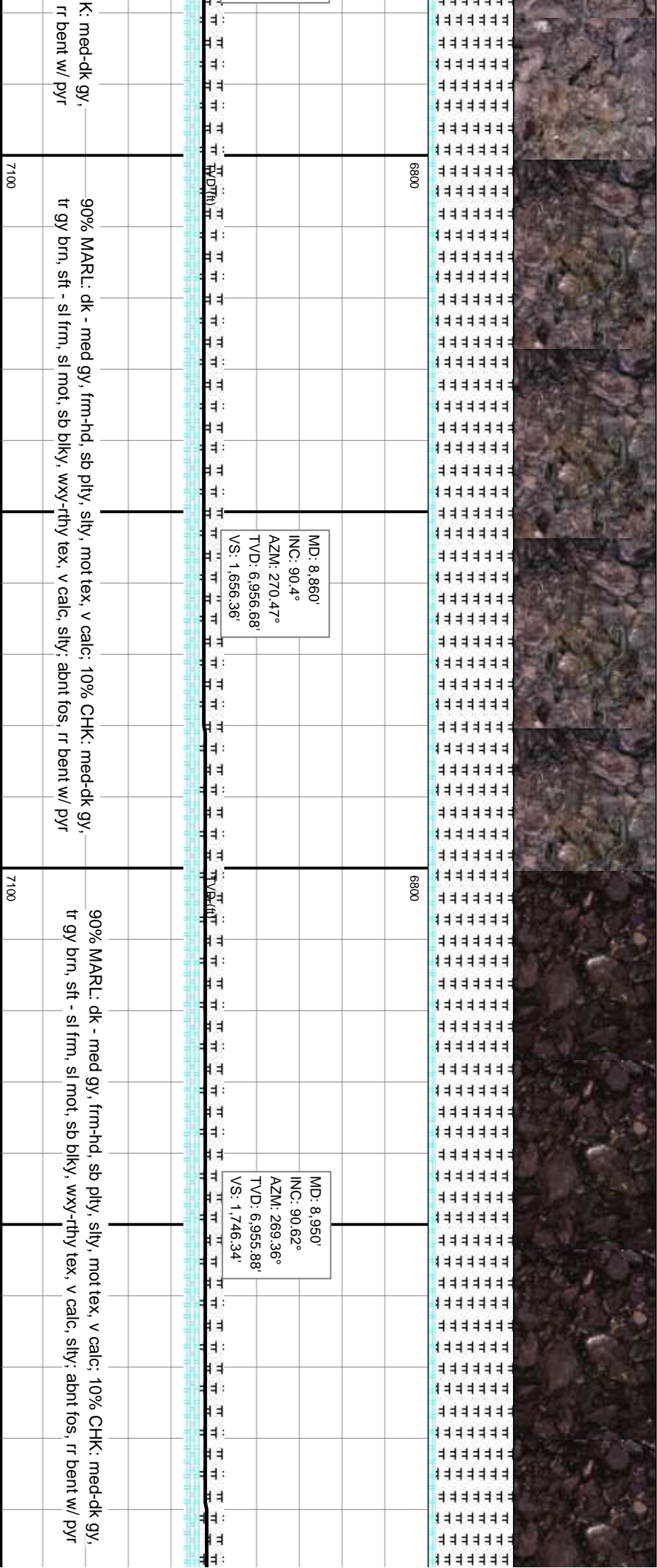
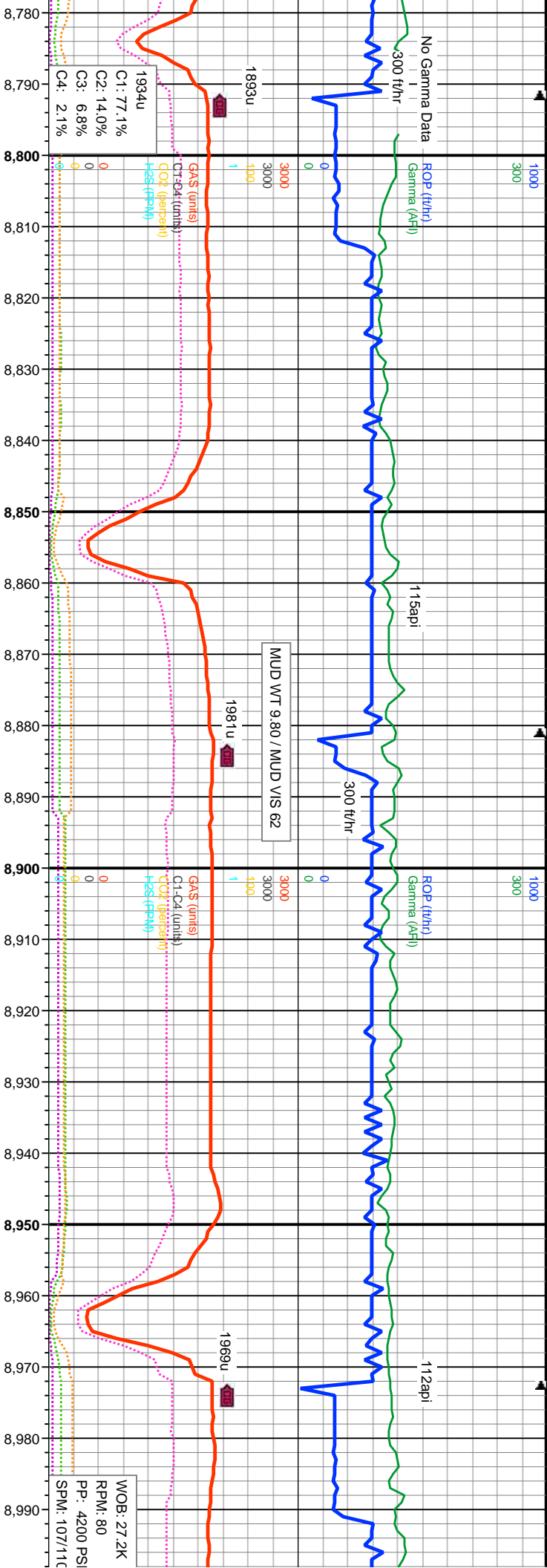
MD: 8,324'  
INC: 89.97°  
AZM: 275.25°  
TVD: 6,960.65'  
VS: 1,120.96'







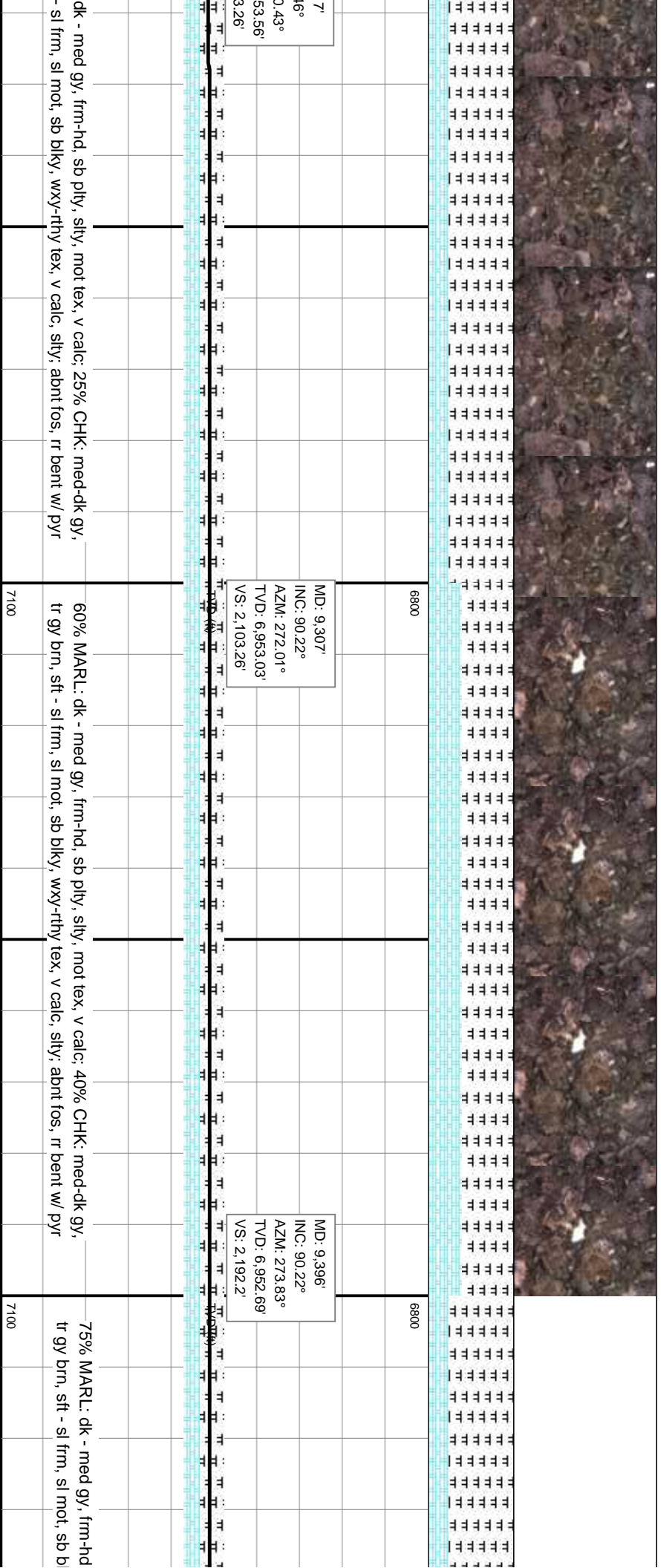
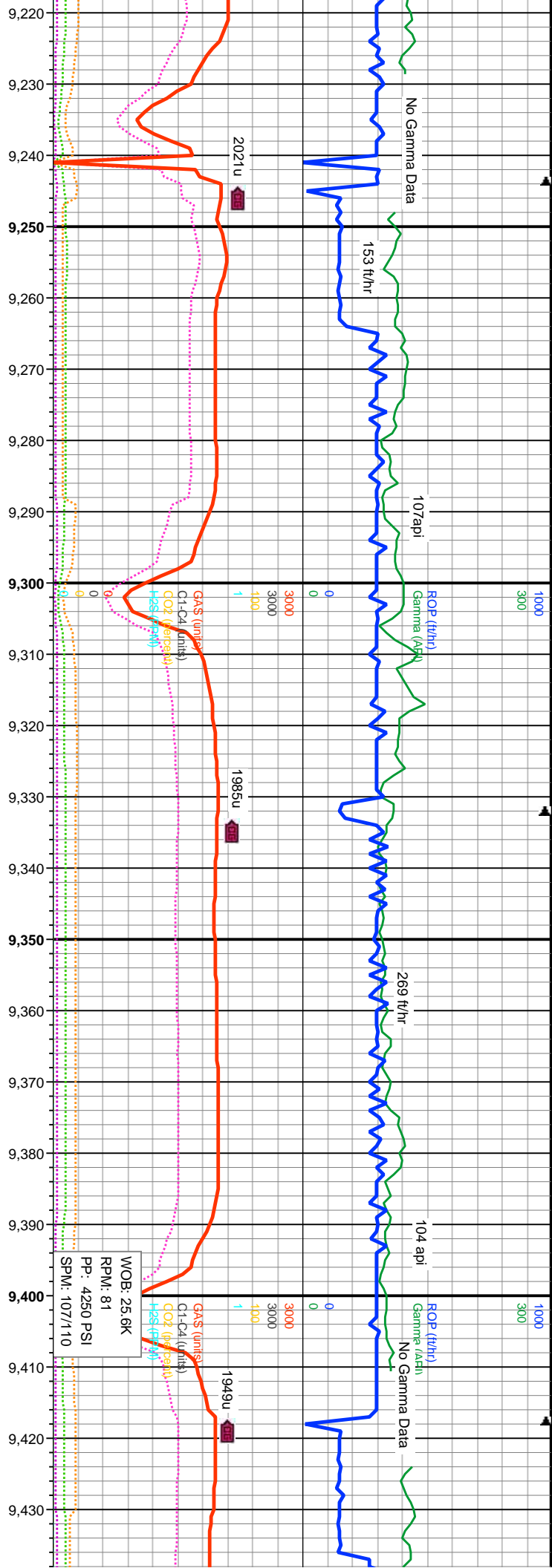


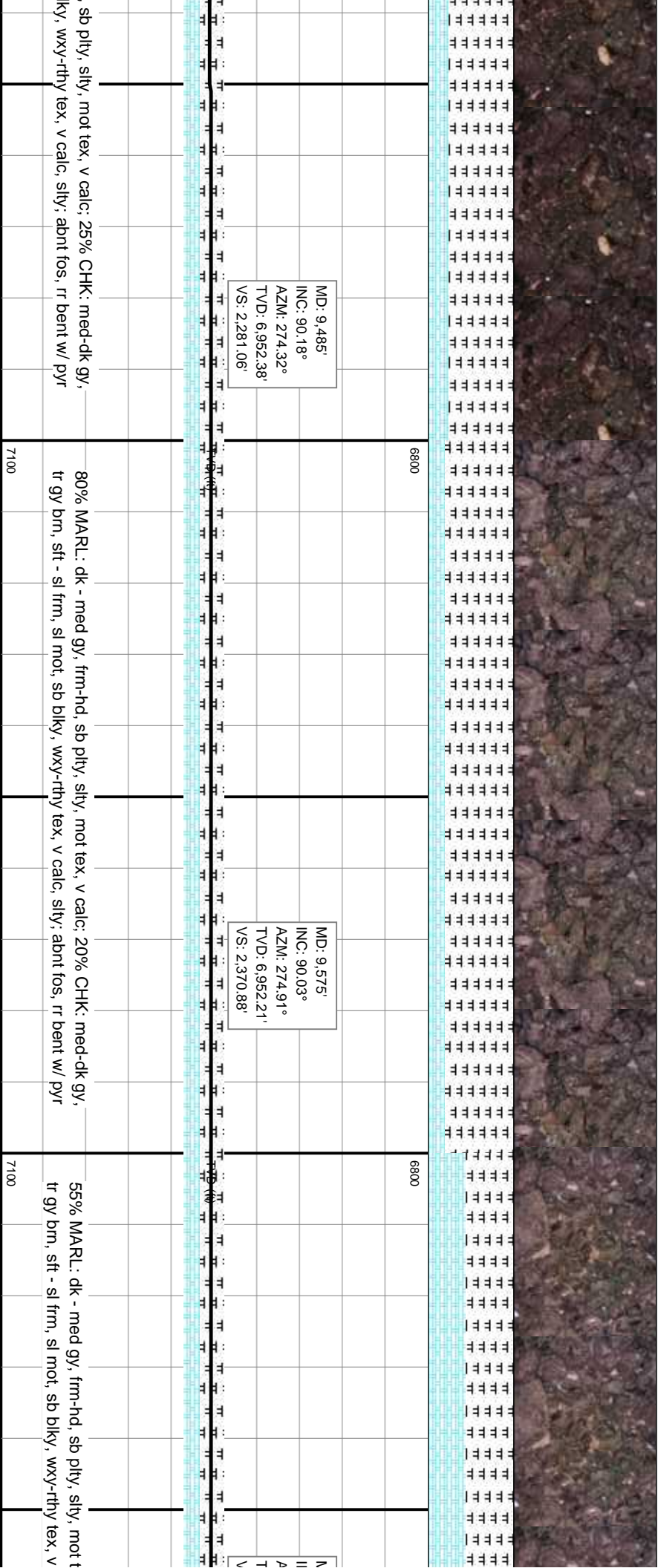
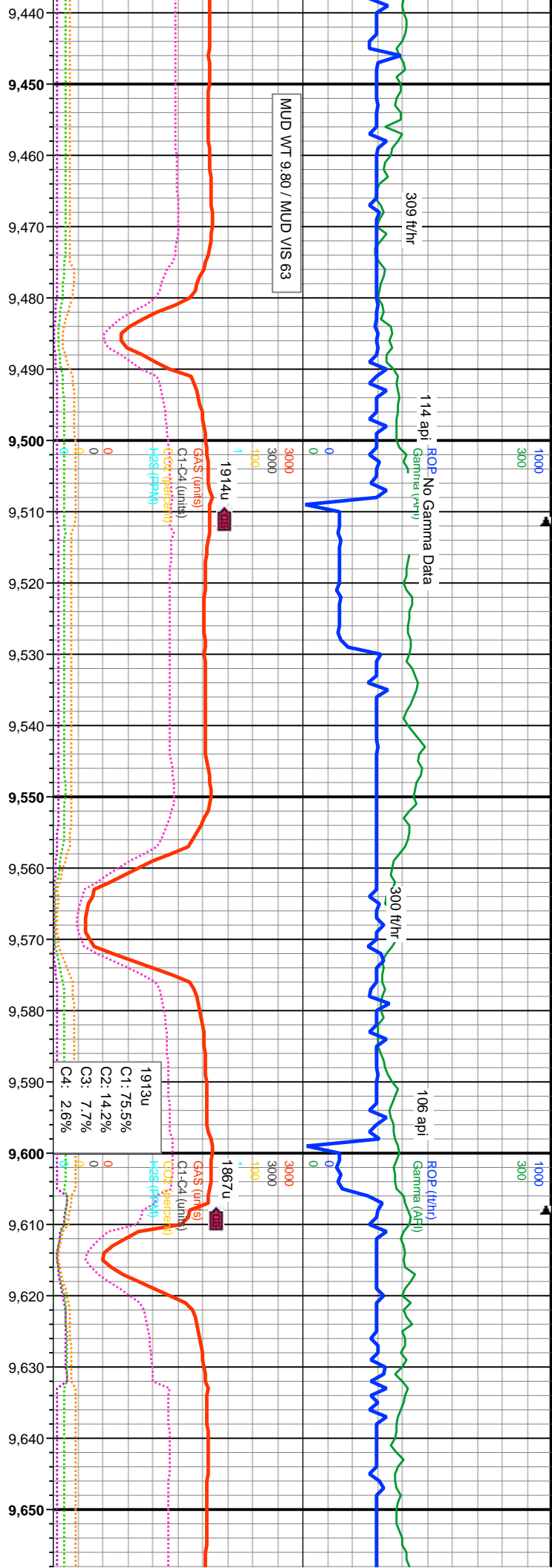








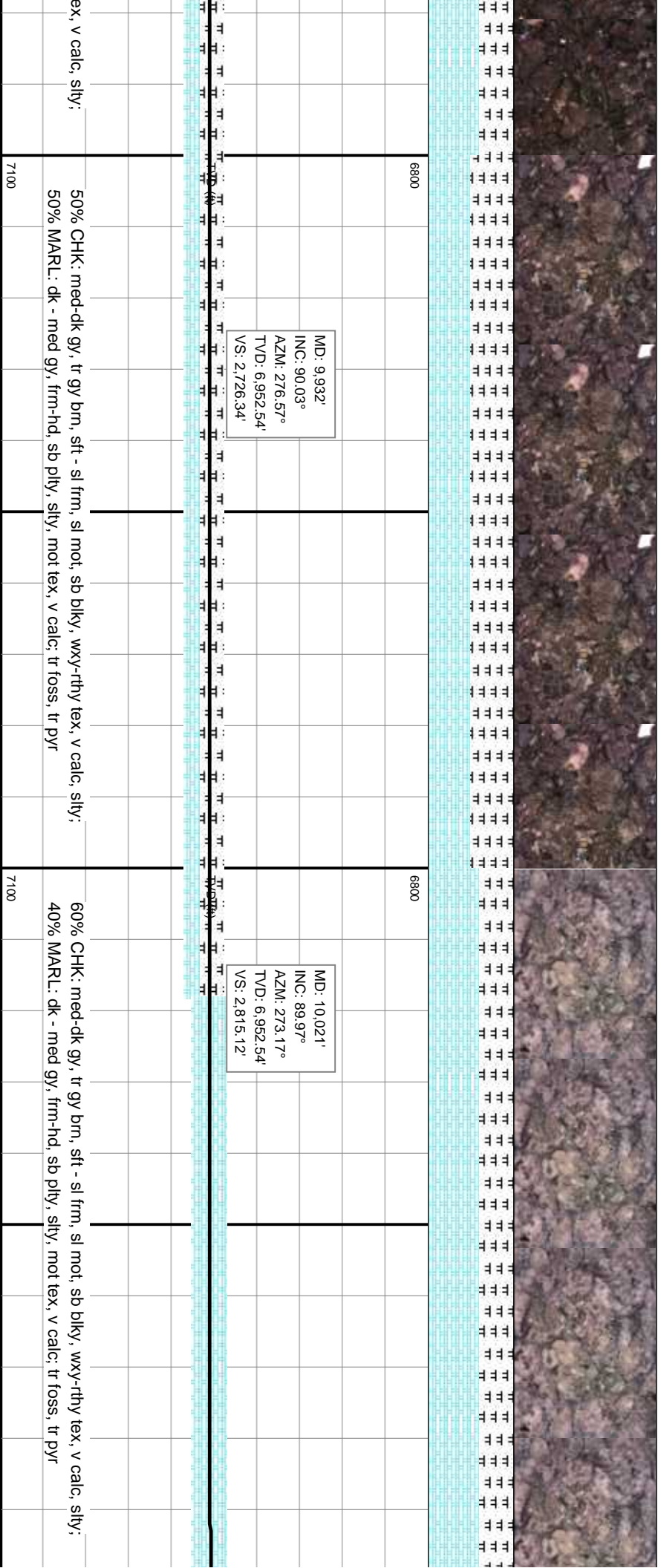
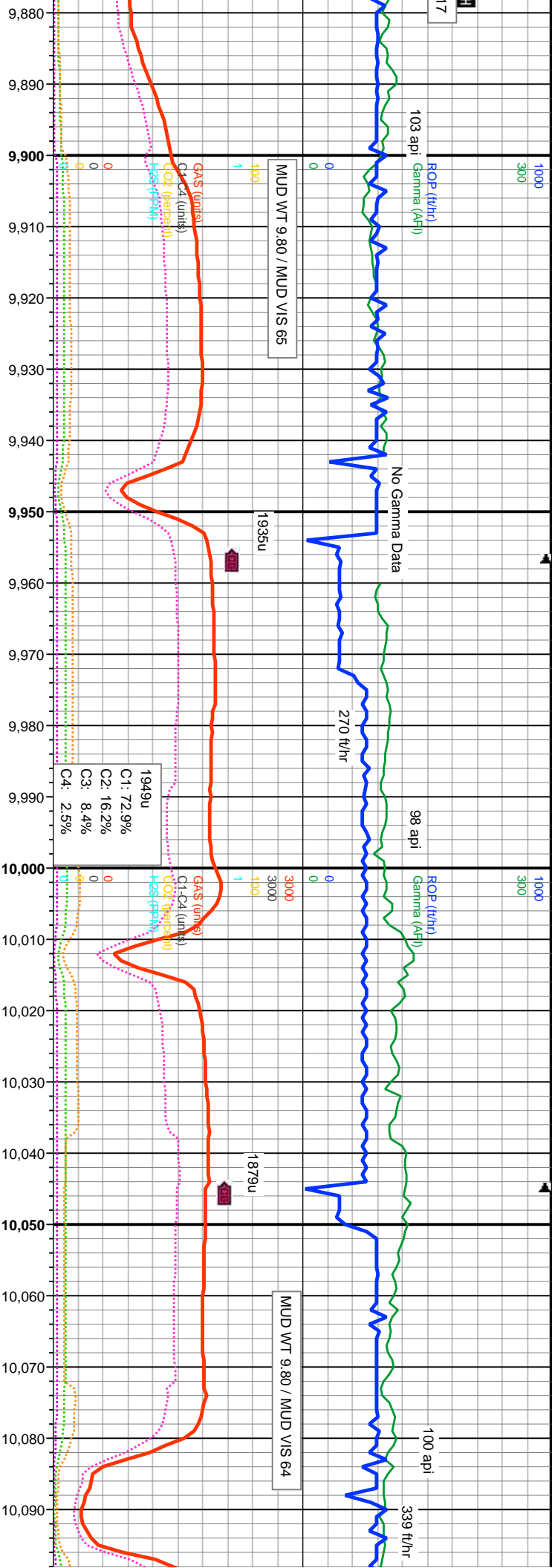


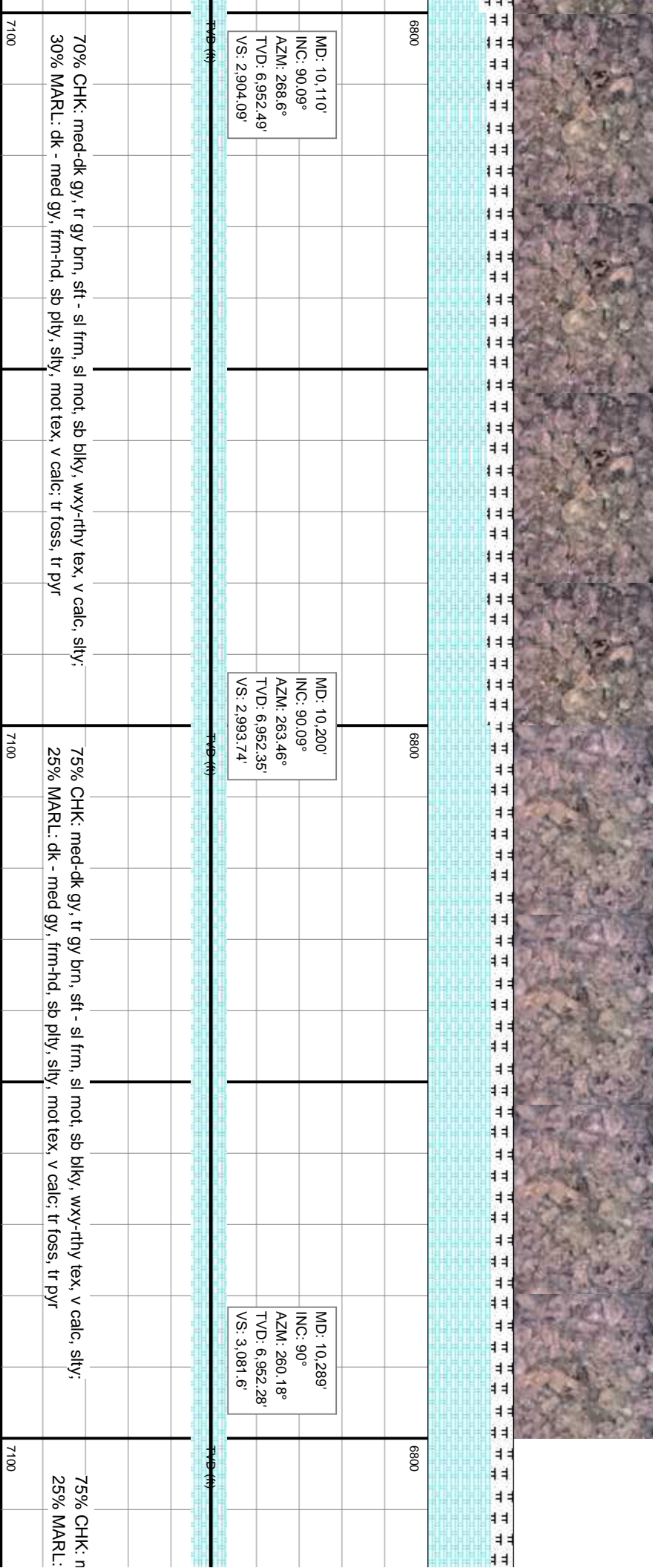
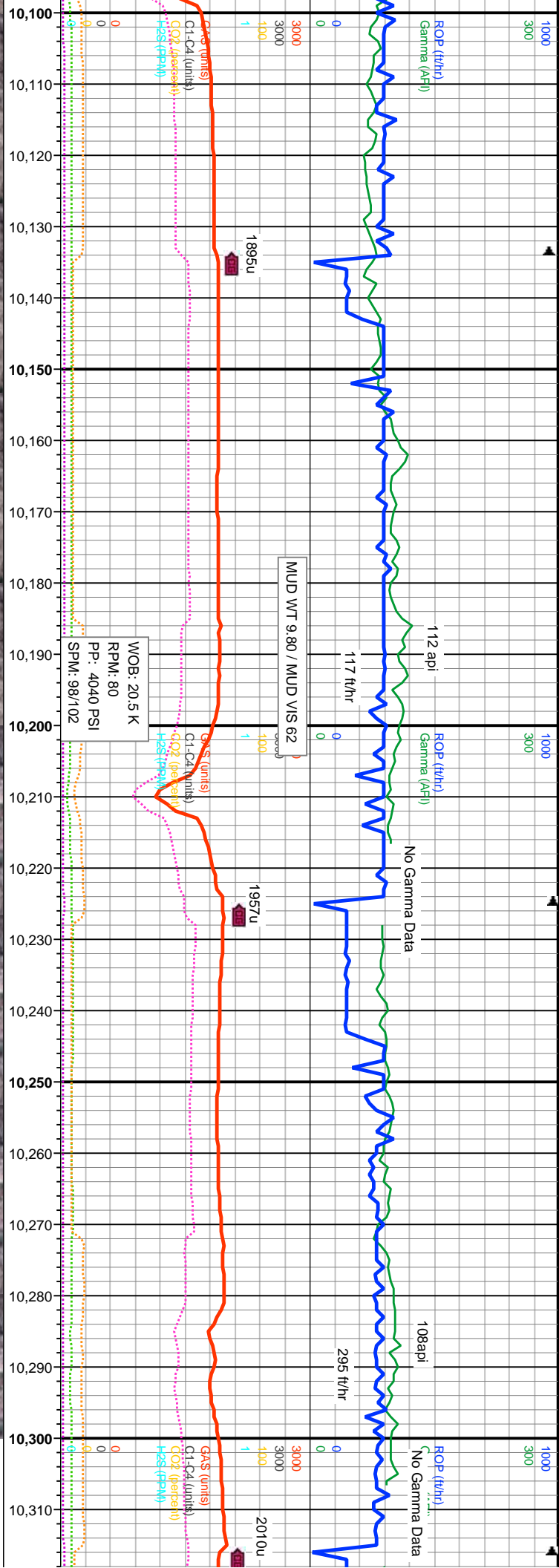




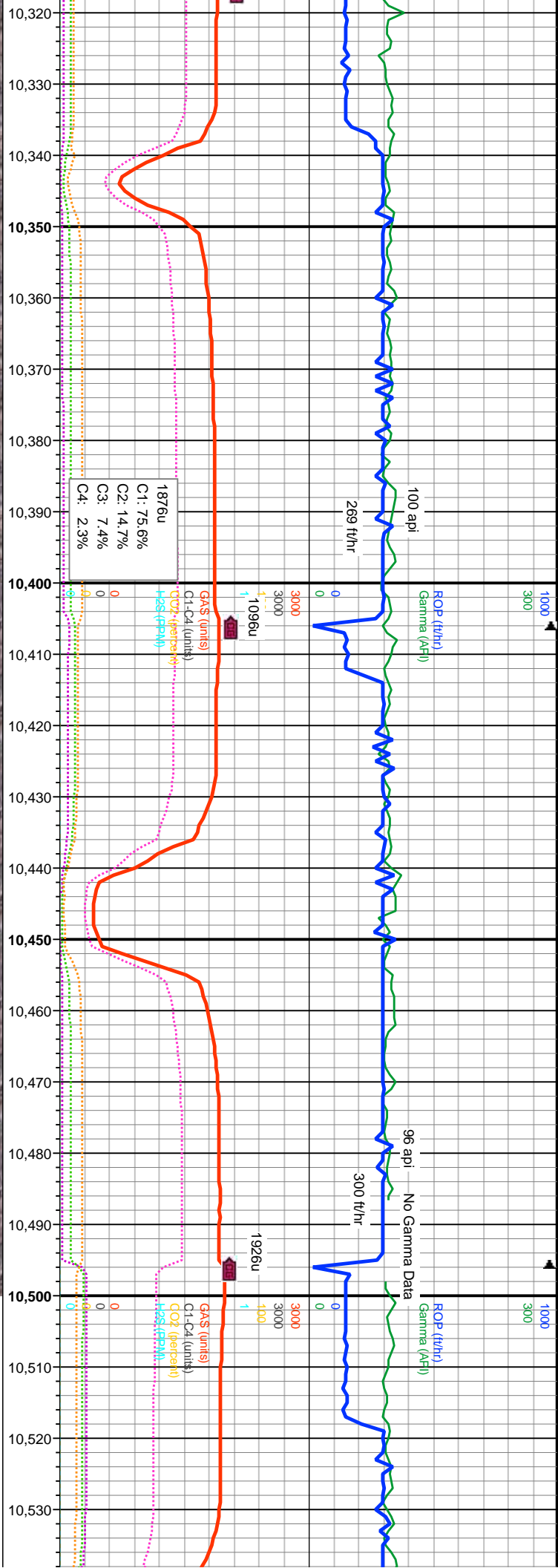








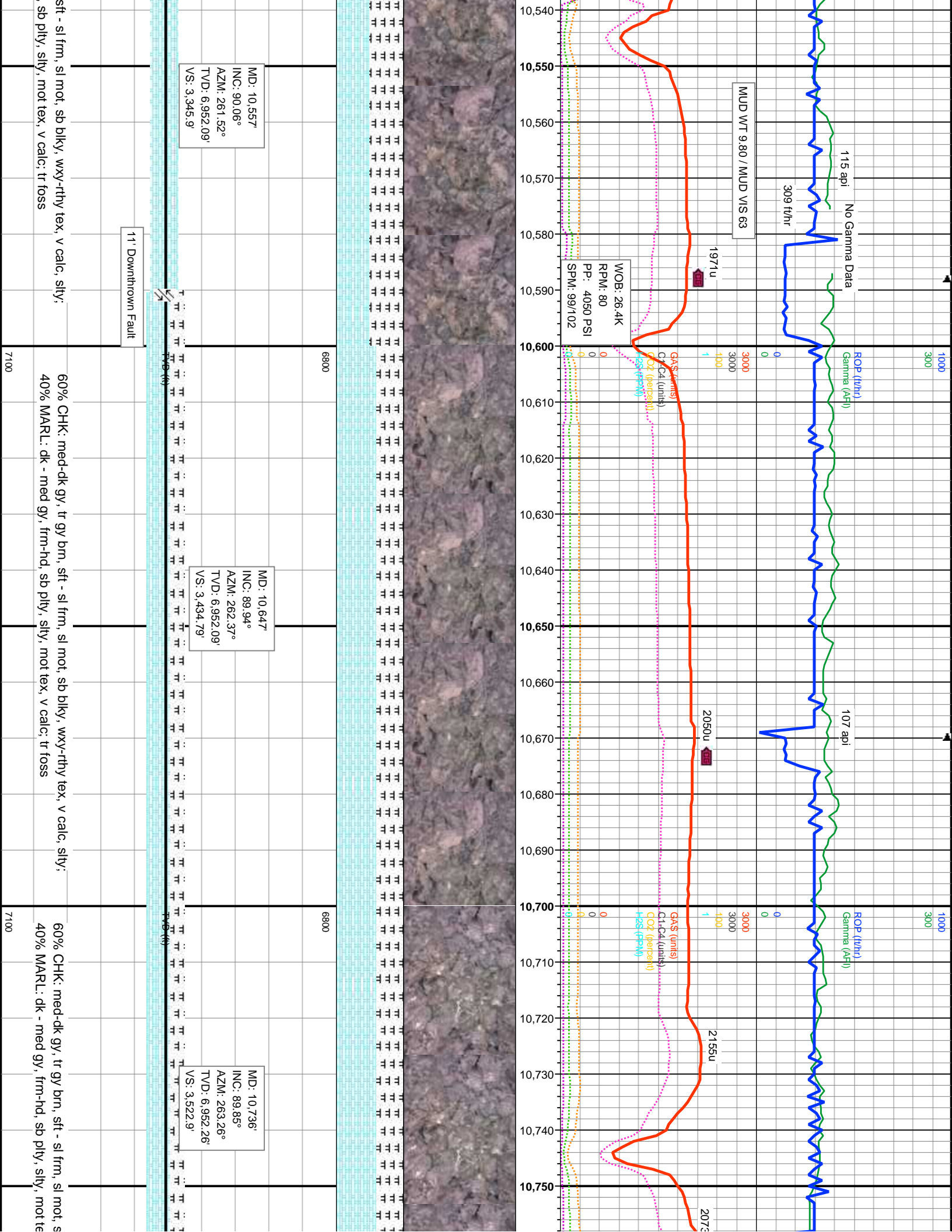




MD: 10,378'  
INC: 90.06°  
AZM: 260.99°  
TVD: 6,952.23'  
VS: 3,169.15'

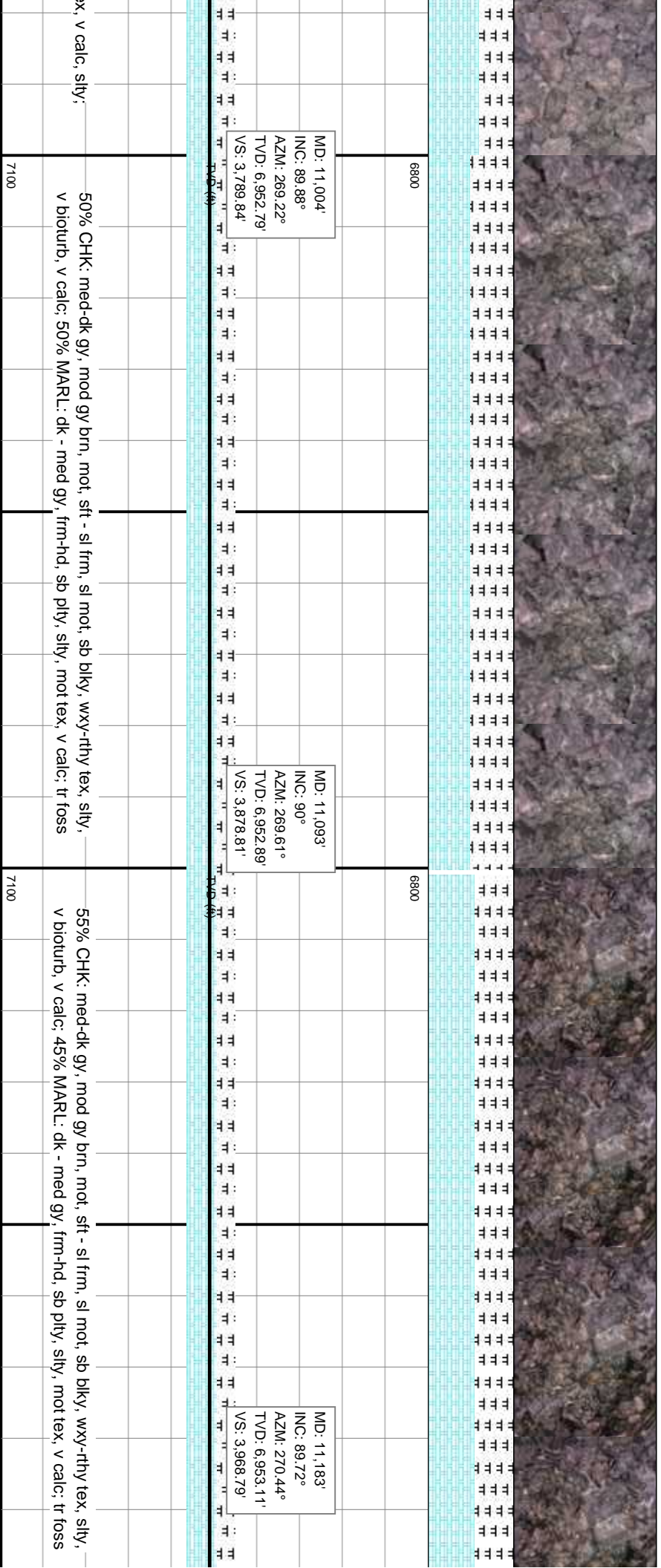
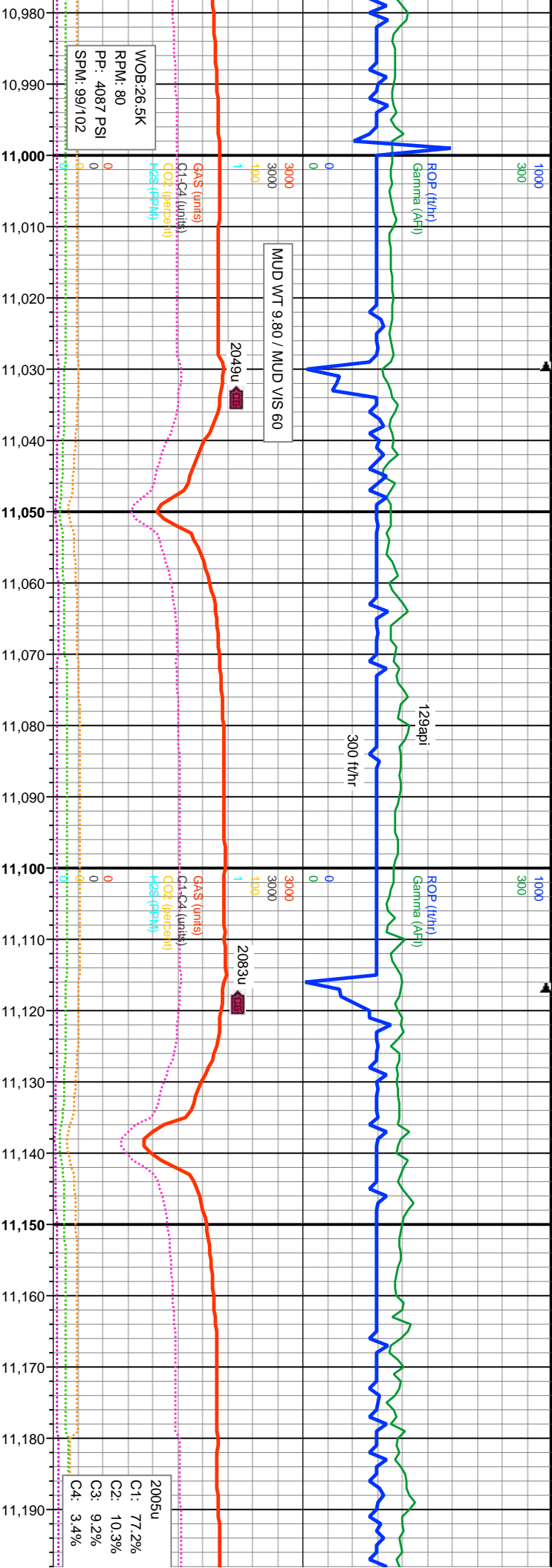
MD: 10,468'  
INC: 90.03°  
AZM: 262.41°  
TVD: 6,952.16'  
VS: 3,257.99'

led-dk gy, tr gy brn, sft - sl frm, sl mot, sb blk, wxy-rthy tex, v calc, slty;			
dk - med gy, frm-hd, sb pty, slty, mot tex, v calc; tr foss, tr pyr			
60% CHK: med-dk gy, tr gy brn, sft - sl frm, sl mot, sb blk, wxy-rthy tex, v calc, slty;			
40% MARL: dk - med gy, frm-hd, sb pty, slty, mot tex, v calc; tr foss			
50% CHK: med-dk gy, tr gy brn,			
50% MARL: dk - med gy, frm-hd			

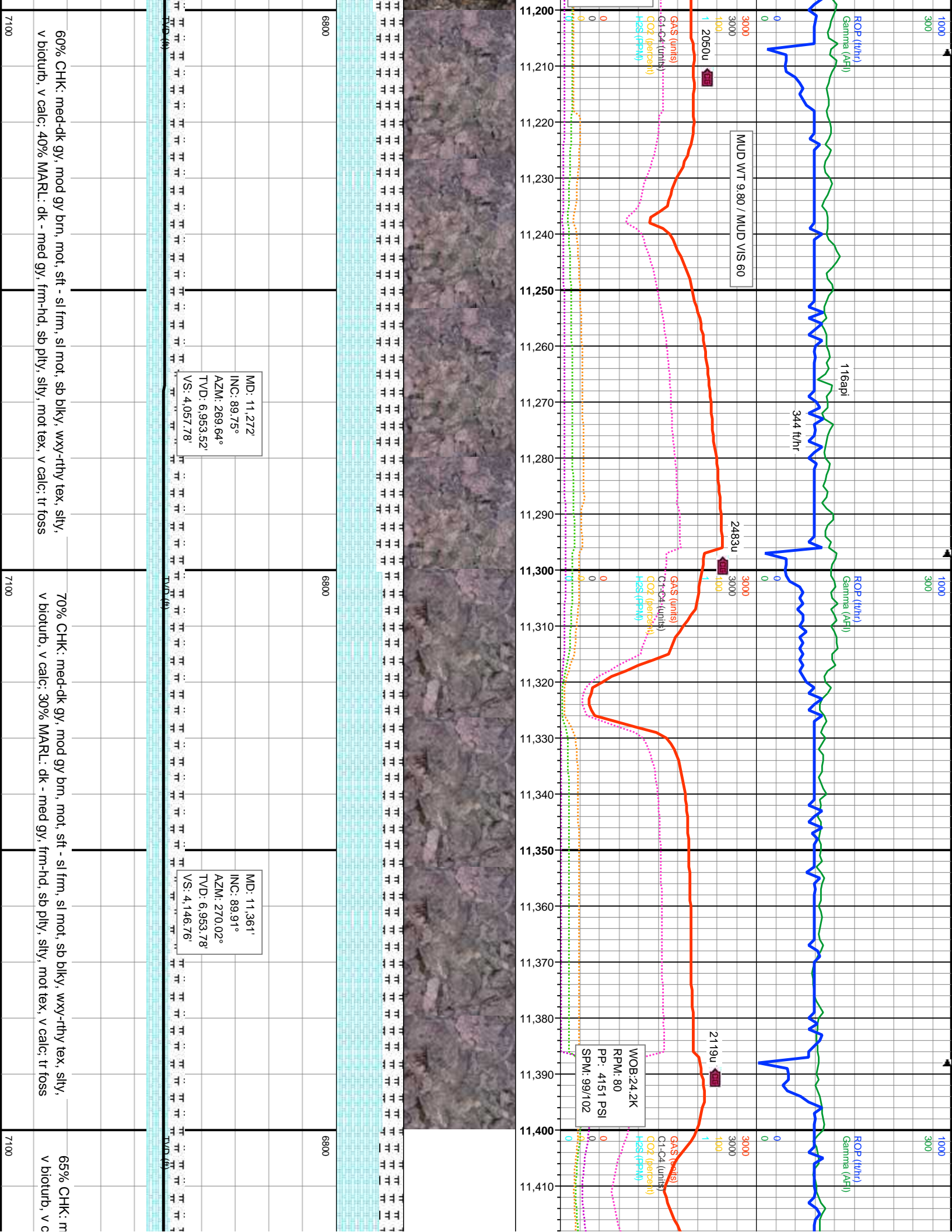


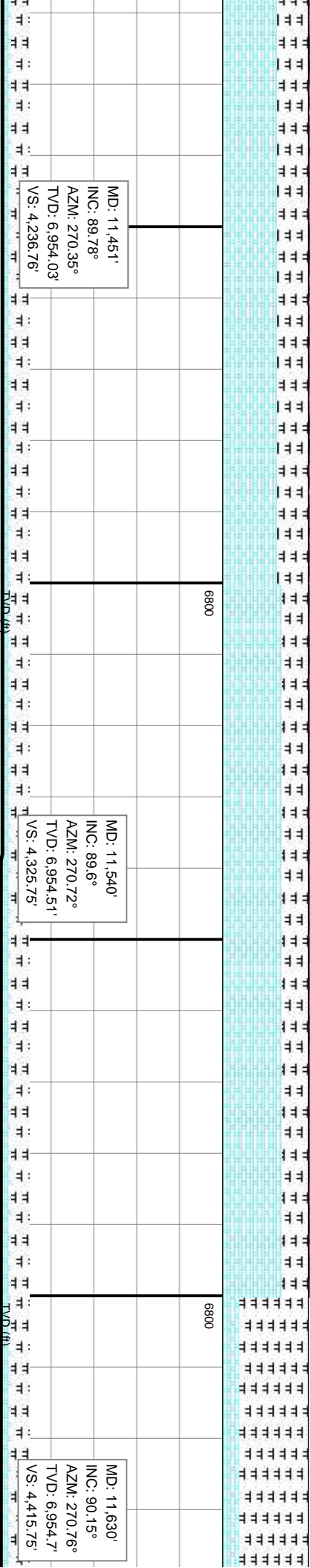
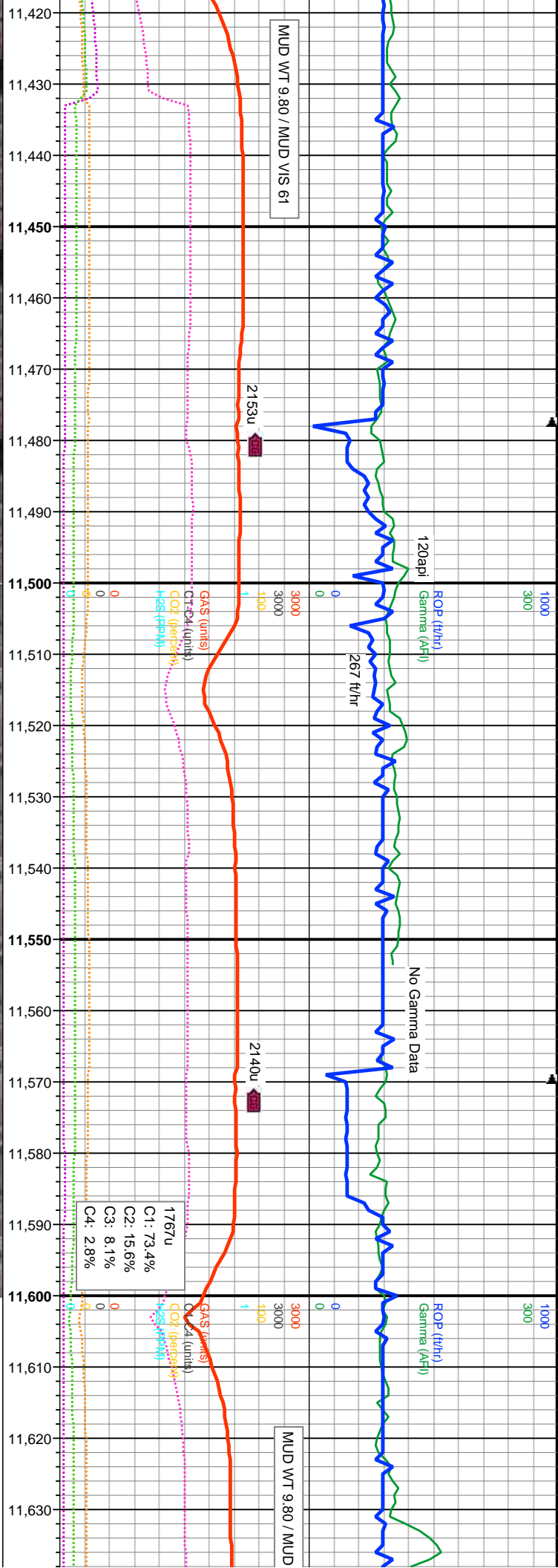






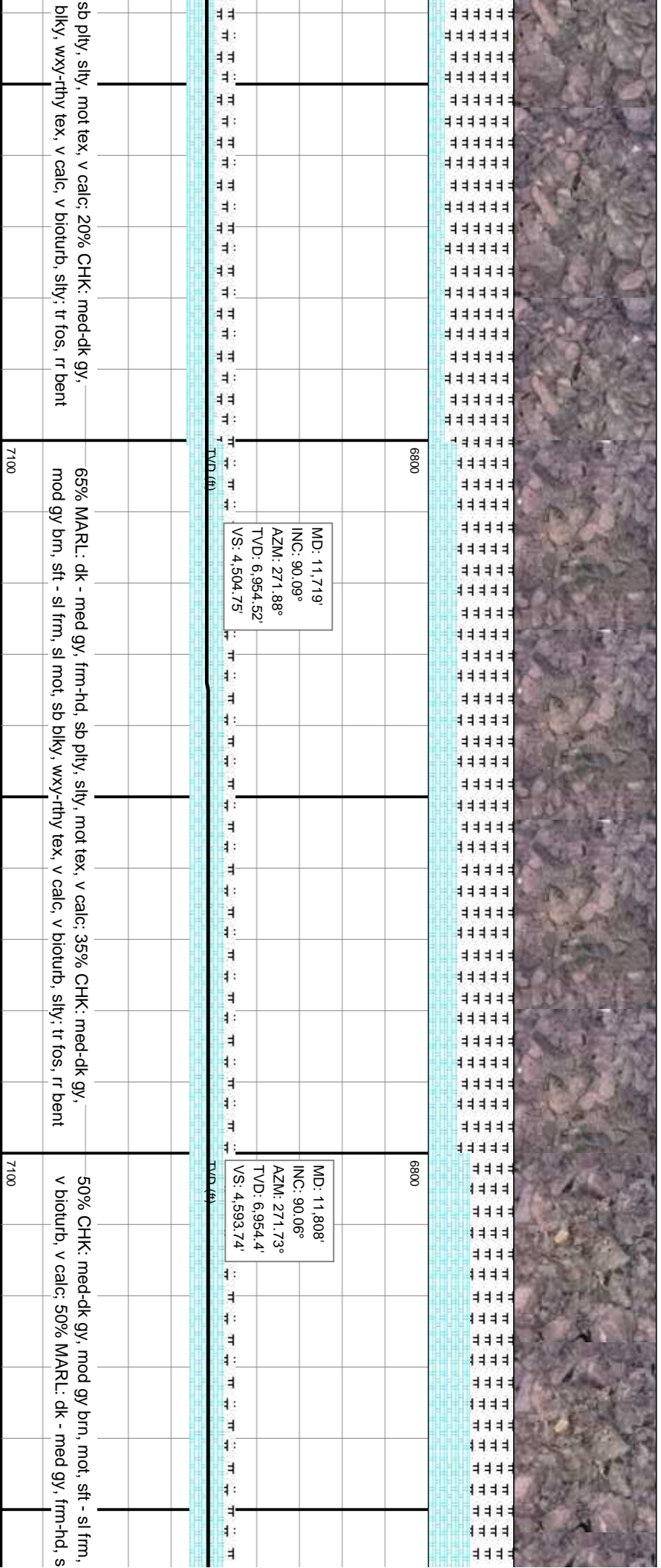
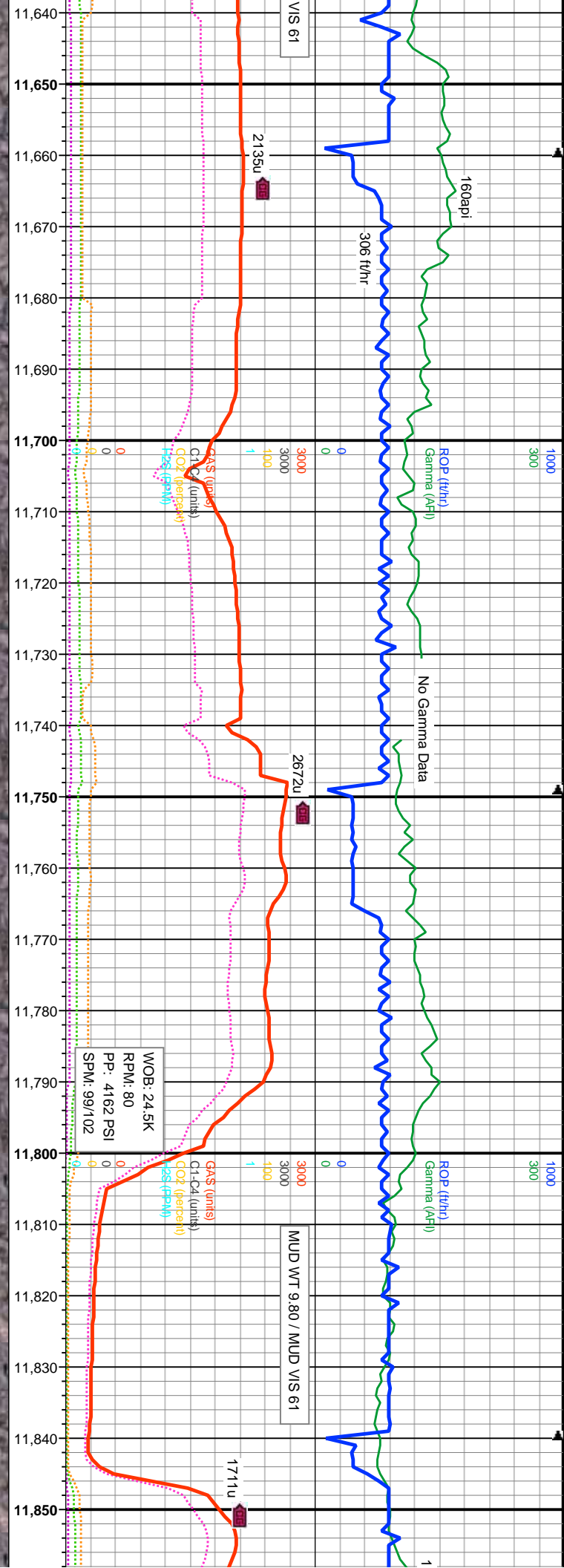


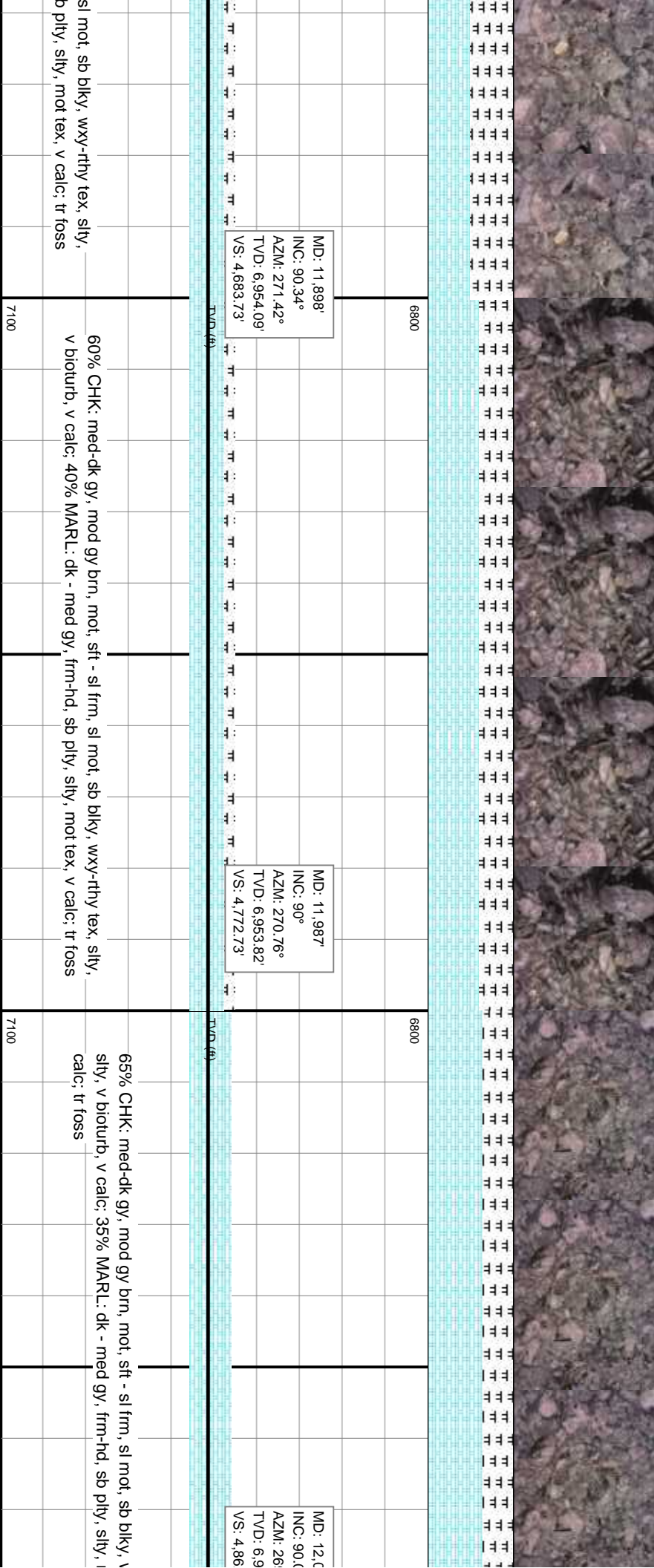
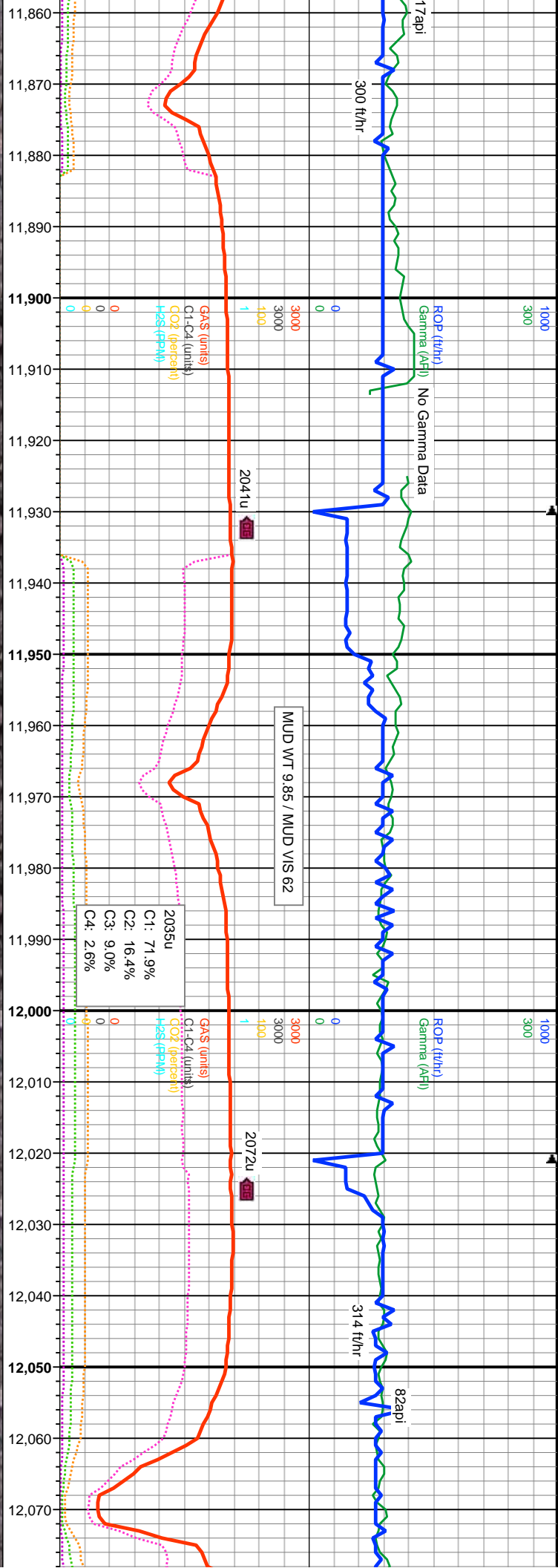




ed-dk gy, mod gy brn, mot, sft - sl frm, sl mot, sb blkly, wxy-rthy tex, silty, alc; 35% MARL. dk - med gy, frm-hd, sb ply, silty, mot tex, v calc; tr foss	6800	7100
70% CHK: med-dk gy, mod gy brn, mot, sft - sl frm, sl mot, sb blkly, wxy-rthy tex, silty, v bioturb, v calc; 30% MARL. dk - med gy, frm-hd, sb ply, silty, mot tex, v calc; tr foss	6800	7100
80% MARL. dk - med gy, frm-hd, mod gy brn, sft - sl frm, sl mot, sb	6800	7100

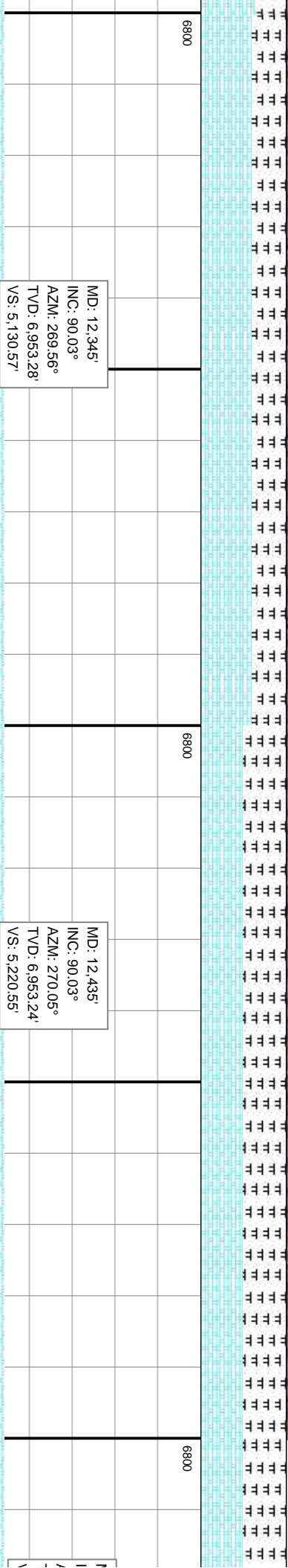
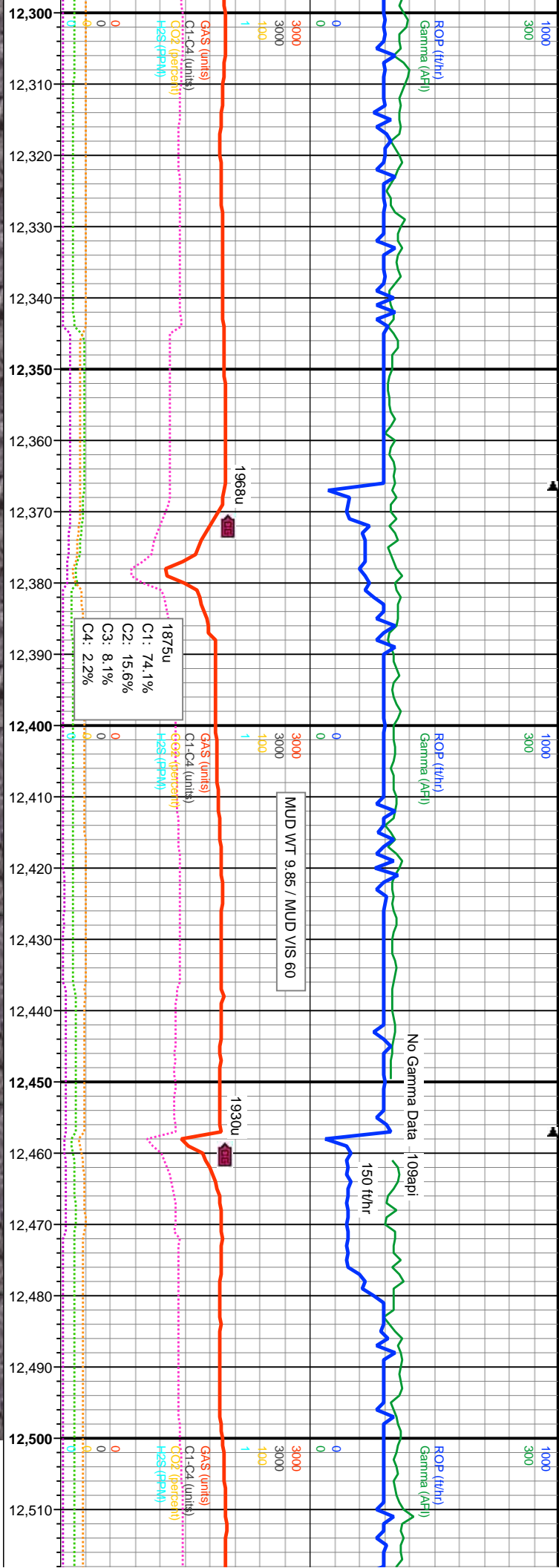












6800	6800	6800
7100	7100	7100
6800	6800	6800
7100	7100	7100
6800	6800	6800
7100	7100	7100
6800	6800	6800
7100	7100	7100
6800	6800	6800
7100	7100	7100

MD: 12,345'  
INC: 90.03°  
AZM: 269.56°  
TVD: 6,953.28'  
VS: 5,130.57'

MD: 12,435'  
INC: 90.03°  
AZM: 270.05°  
TVD: 6,953.24'  
VS: 5,220.55'

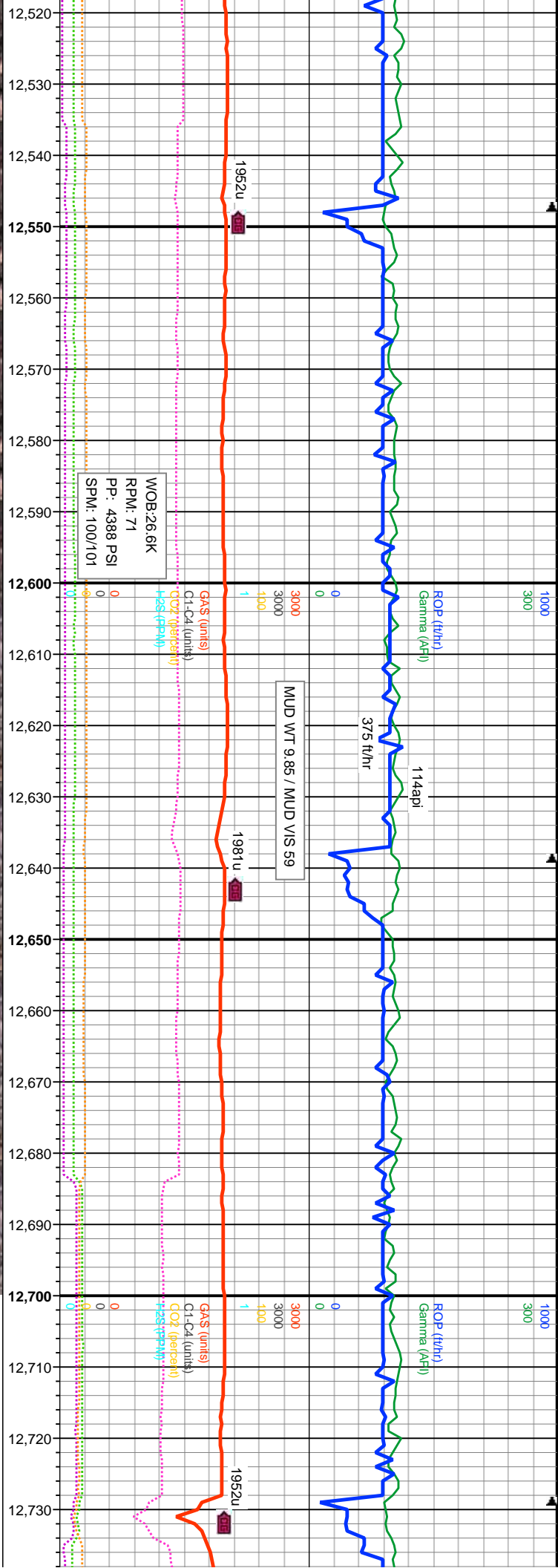
MD: 12,435'  
INC: 90.03°  
AZM: 270.05°  
TVD: 6,953.24'  
VS: 5,220.55'

60% CHK: med-dk gy, mod gy brn, mot, sft - sl frm, sl mot, sb blk, wxy-rthy tex, silty, v bioturb, v calc; 40% MARL: dk - med gy, frm-hd, sb pily, silty, mot tex, v calc; tr foss

50% CHK: med-dk gy, mod gy brn, sl mot, sft - sl frm, sl mot, sb blk, wxy-rthy tex, v bioturb, v calc; 50% MARL: dk - med gy, frm-hd, sb pily, silty, v calc; tr foss, tr sec cal

50% CHK: m bioturb, v calc





MD: 12.524'  
INC: 89.88°  
AZM: 267.36°  
TVD: 6.953.31'  
VS: 5.309.48'

MD: 12.613'  
INC: 90.15°  
AZM: 267.13°  
TVD: 6.953.28'  
VS: 5.398.29'

MD: 12.703'  
INC: 90.18°  
AZM: 269.3°  
TVD: 6.953.03'  
VS: 5.488.19'

med-dk gy, mod gy brn, sl mot, sft - sl frm, sl mot, sb blk, wxy-rthy tex, v  
50% MARL: dk - med gy, frm-hd, sb pily, slty, v calc; tr foss, tr sec cal

40% CHK: med-dk gy, mod gy brn, sl mot, sft - sl frm, sl mot, sb blk, wxy-rthy tex, v  
bioturb, v calc; 60% MARL: dk - med gy, frm-hd, sb pily, slty, v calc; tr foss, tr sec cal

40% CHK: med-dk gy, mod gy b  
bioturb, v calc; 60% MARL: dk -

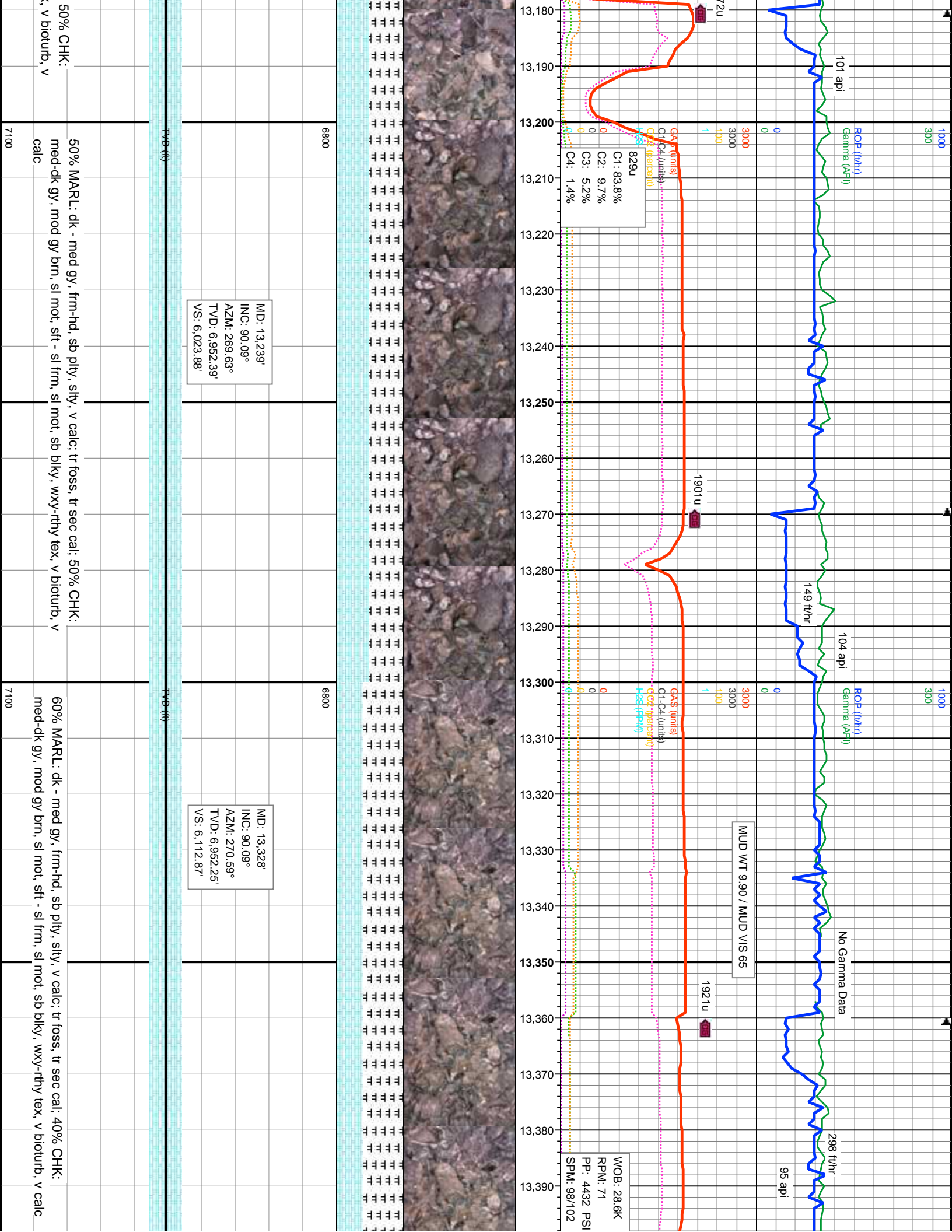
6800  
7100

6800  
7100



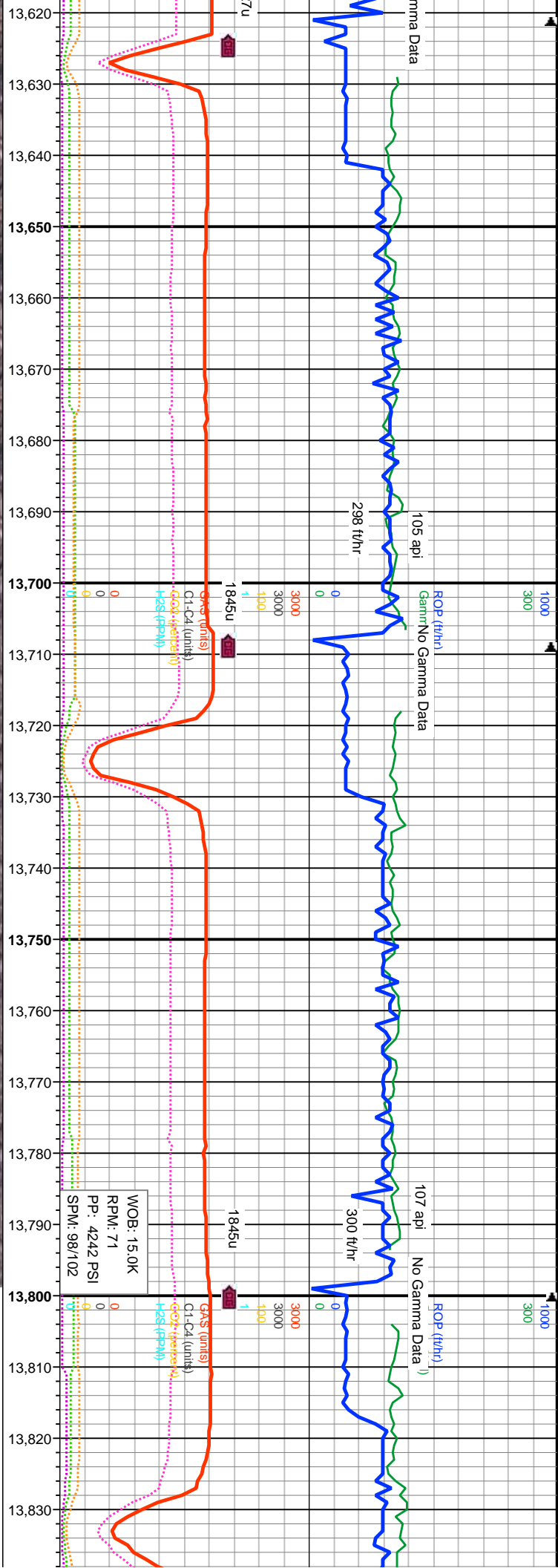












MD: 13,686'  
INC: 90°  
AZM: 268.61°  
TVD: 6,951.9'  
VS: 6,470.2'

MD: 13,775'  
INC: 90.31°  
AZM: 271.49°  
TVD: 6,951.66'  
VS: 6,559.18'

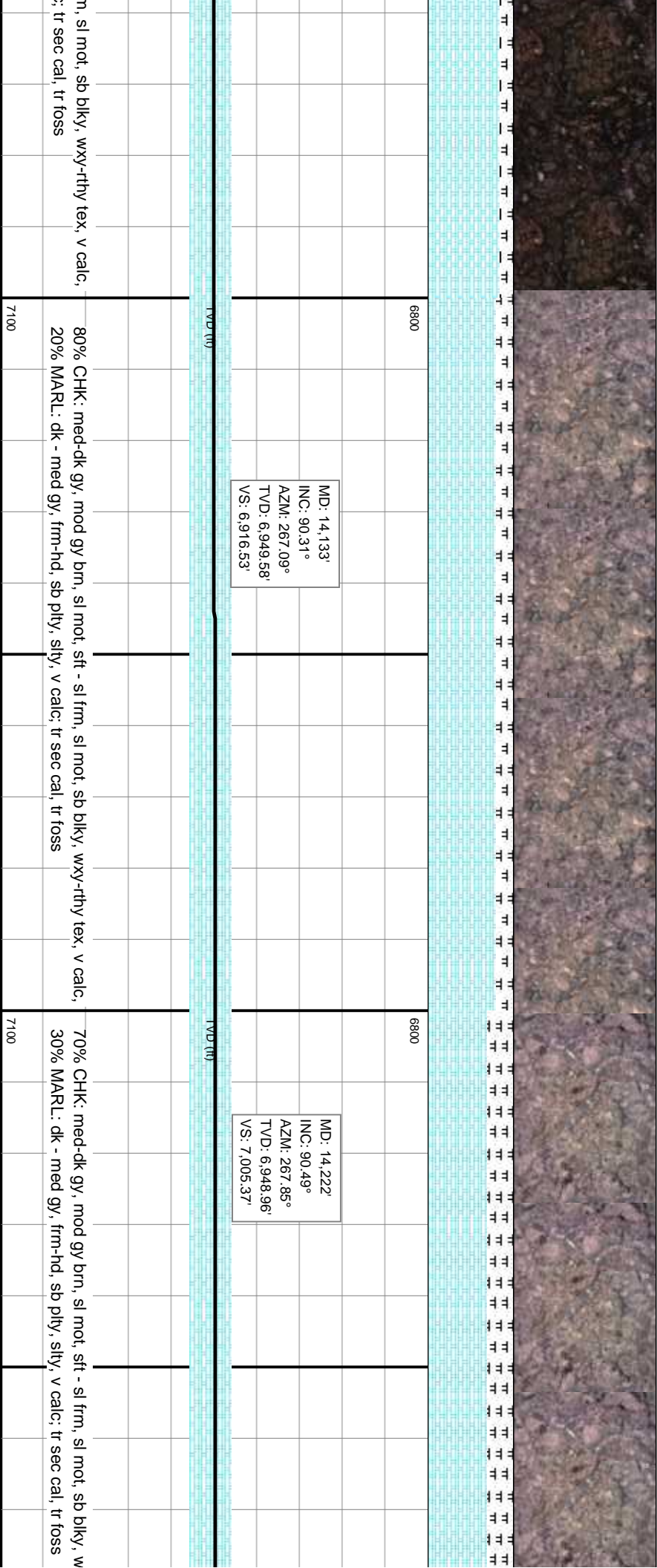
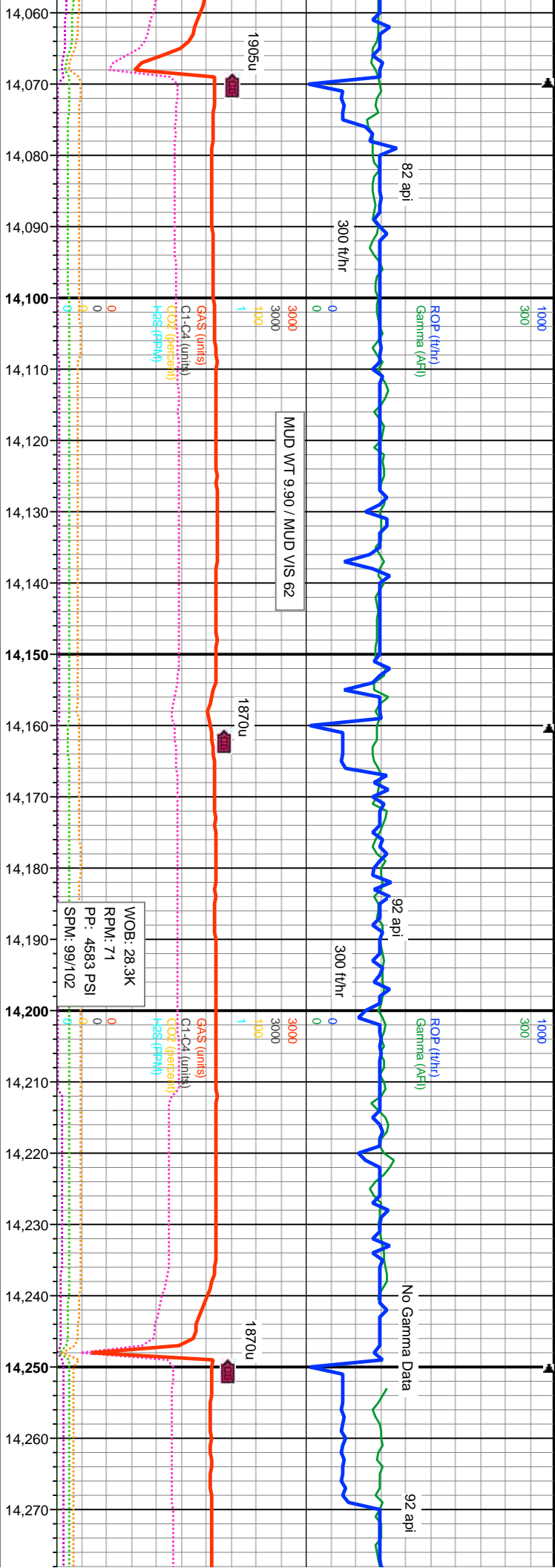
k - med gy, frm-hd, sb pty, silty, v calc; tr sec cal 50% CHK: med-dk gy, mod  
sft - sl frm, sl mot, sb blkly, wxy-rtty tex, v calc, tr foss

65% CHK: med-dk gy, mod gy brn, sl mot, sft - sl frm, sl mot, sb blkly, wxy-rtty tex, v calc,  
35% MARL: dk - med gy, frm-hd, sb pty, silty, v calc; tr sec cal, tr foss

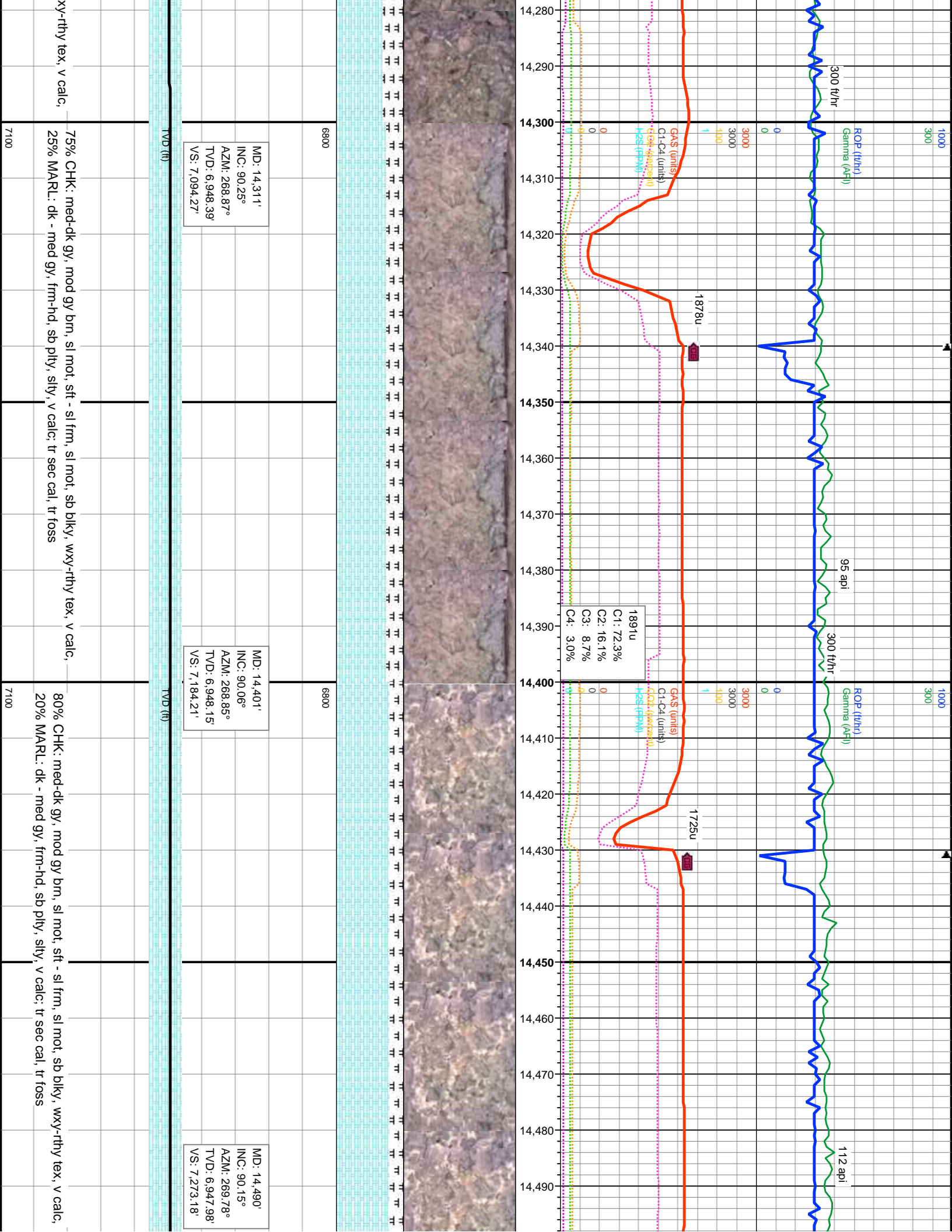
65% CHK: med-dk gy, mod gy brn  
35% MARL: dk - med gy, frm-hd, s

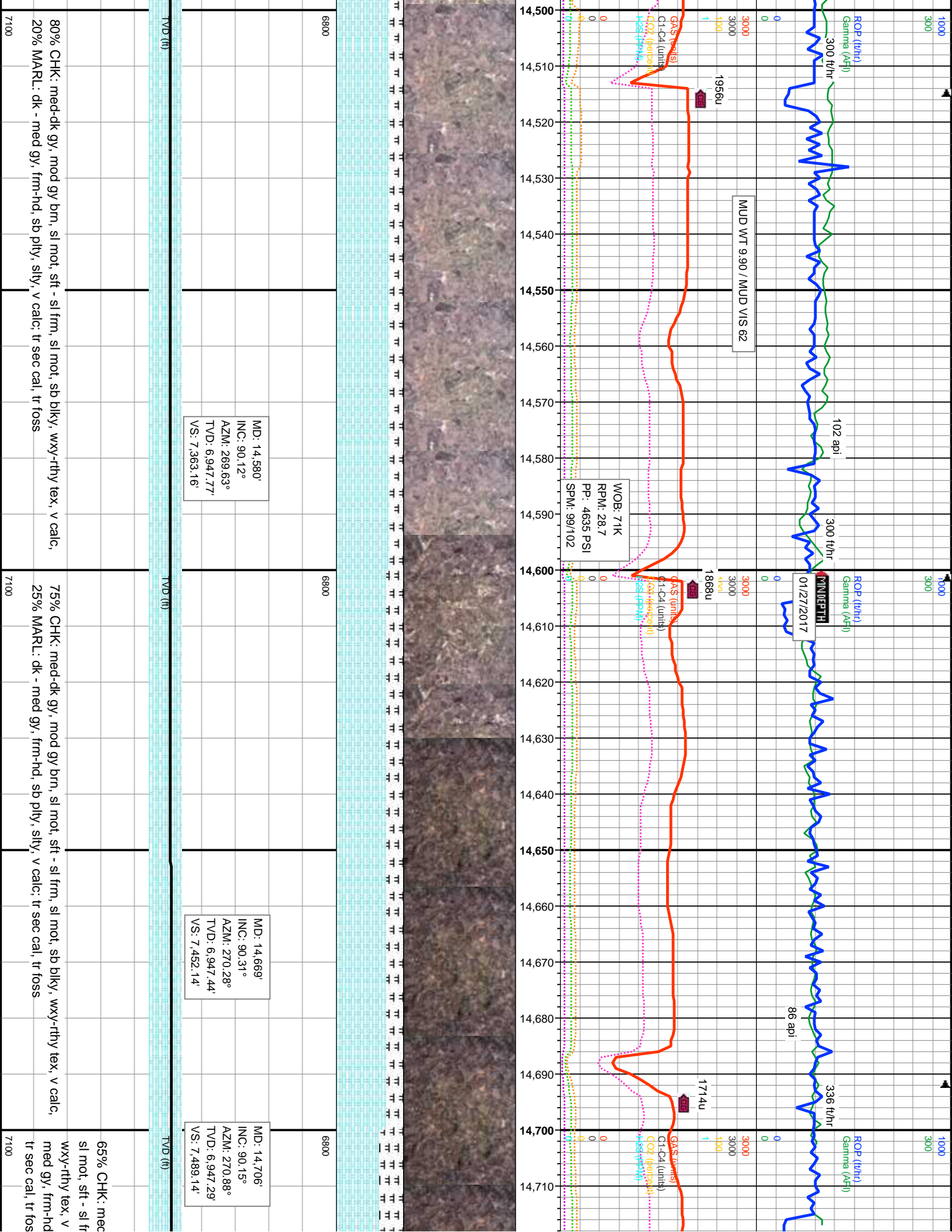




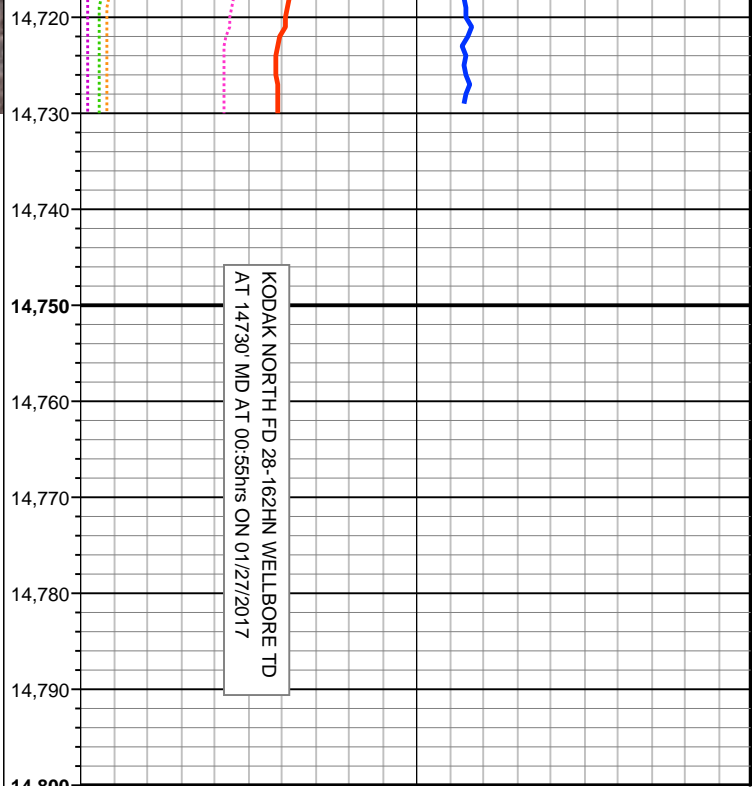












MD: 14,730'  
INC: 90.15°  
AZM: 270.88°  
TVD: 6,947.22'  
VS: 7,513.14'

THANK YOU FOR USING TERRA GUIDANCE LLC

-dk gy, mod gy brn,  
m, sl mot, sb blk,  
calc, 35% MARL: dk -  
s, sb pty, slty, v calc;  
s