



Scale: 5" / 100'  
Measured Depth Log

**Well Name** Thornton G-29-30-HN

**Location** S29 T7N R66W

**State** Colorado

**Country** U.S.A.

**County** Weld

**Rig Number** Xtreme 18

**API Number** 05-123-43598

**AFE #** 05-123-43598

**Geographic Region** DJ Basin

**Field** Wattenberg

**Spud Date** 11/5/2016

**Drilling Completed** 11/14/2016

**Surface Coordinates** 40.548624, -104.791529  
1644 FNL 355 FWL  
S29 T7N R66W

**Bottom Hole Coordinates** 1480 FFNLL 470 FFWLL  
S30 T7N R66W

**Ground Elevation** 4907'

**K.B. Elevation** 4924'

**Logged Interval** 6000' To 17629'

**Total Depth** 17629'

**Formation** Niobrara (C Chalk)

**Type of Drilling Fluid** WBM

## Operator

**Company** Bayswater Exploration & Production, LLC.

**Address** 730 17th St.  
Denver, CO 80202



## Geologist

**Name** Mark E. Brown

**Company** Bayswater Exploration & Production, LLC.

**Address** 730 17th St.  
Denver, CO 80202

## Other

**Robert Davis** Lead Wellsite Geologist

**Andrew Martens** Wellsite Geologist

**Columbine Logging Computer** 4-A

**Bloodhound Unit** 331

Zone Color Coding

Oil

Note

Error

Condensate

Core

Water

Gas

Pressure

Seal

Oil Show

P PINPOINT

V VUGGY

Engineering

D DEAD

E EVEN

Q QUESTIONABLE

B BIT

S SPOTTED STAINING

C CONNECTION (UP)

Rock Types

UNKNOWN

ANHYDRITE

BENTONITE

BRECCIA

CHALK

CEMENT

CHERT

CLAY CHOKE SANC

CLAYSTONE

COAL

CONGLOMERATE

DOLOMITE

DOLOMITIC LIMESTONE

GRANITE

GYPSUM

IGNEOUS

SIDERITE or LIMONITE

LIMESTONE

MARLSTONE

METAMORPHIC

NO SAMPLE

SALT

SANDSTONE

SALT-PEPPER SANC

SHALE

SHALE COLORED

SHALE GRAY

SHALY SANDSTONE

SHALY SILTSTONE

SILTY SHALE

SILTSTONE

TILL

TUFF

WELDED TUFF

Accessories

GASTROPOD

INOCERAMUS

OOLITE

OSTRACOD

PELECYPOD

PELLET

PISOLITE

PLANT REMAINS

PLANT SPORES

SCAPHOPOD

STROMATOPOROID

CORAL

CRINOID

ECHINOID

FISH

FORAMINIFERA

FOSSIL

ARGILLITE GRAIN

B BENTONITE

BIT BITUMENOUS SUBSTANCE

BRECCIA FRAGMENTS

C CALCAREOUS

CARBONACEOUS FLAKES

C CHERT

COAL - THIN BEDS

D DOLOMITIC

F FELDSPAR

FERRUGINOUS PELLET

F FERRUGINOUS

G GLAUCONITE

G GYPSIFEROUS

H HEAVY MINERAL

K KAOLIN

M MARCASITE

T MARLSTONE

M MICACEOUS

MINERAL CRYSTALS

N NODULES

PHOSPHATE PELLETS

P PYRITE

S SALT CAST

S SANDY

S SIDERITE

S SILTACEOUS

S SILTY

T TUFFACEOUS

ANHYDRITE STRINGER

BENTONITE STRINGER

COAL STRINGER

DOLOMITE STRINGER

GYPSUM STRINGER

LIMESTONE STRINGER

MARLSTONE (CALO) STRG

MARLSTONE STRINGER

SANDSTONE STRINGER

SHALE STRINGER

SILTSTONE STRINGER

Porosity

C CONNECTION (DOWN)

C CONNECTION GAS

T TRIP GAS

T TRIPP GAS

F FRACTURE

T TRIP GAS (LEFT)

I INTERCRYSTALLINE

D DOWN TIME GAS

I INTEROOLITIC

D DOWN TIME GAS (L)

M MOLDIC

C CORE - LOST

O ORGANIC

C CORE - RECOVERED

Fossils

Minerals

# Other Symbols

 DST INTERVAL       WIRELINE TESTED - LEFT   **E** EARTHY

 FAULT       WIRELINE TESTED - RT    **FX** FINELYXLN

 FORMATION TOP       DRILL STEM TEST      **GS** GRAINSTONE

 GAS SHOW       MIN DEPTH      **L** LITHOGRAPHIC


 OIL SHOW      **MX** MICROXLN


 MIN DEPTH UP      **MS** MUDSTONE

## Rounding

 MIN DEPTH (DOWN)      **A** ANGULAR      **PS** PACKSTONE

 NORMAL FAULT      **R** ROUNDED      **WS** WACKSTONE

 OVERTURNED STRATA      **B** SUBANG


 REVERSE FAULT      **R** SUBRND

## Sorting

 CASING      **M** MODERATE

## Textures

 SIDEWALL CORE (LEFT)      **P** POOR

 SIDEWALL CORE (RIGHT) **BS** BOUNDSTONE      **W** WELL

 SLIDE      **C** CHALKY

 SURVEY      **CX** CRYPTOXLN

ROP  
—

COLUMBINE LOGGING RIGGED UP ON  
11/6/2016 MANNED 2-PERSON LOGGING.  
STARTED LOGGING AT 6000' @ 04:55 MDT  
11/7/2016.

Total Gas & Chromatograph

GAS  
C1  
C2  
C3  
C4

GAS DATA FROM BLOODHOUND  
CHROMATOGRAPH UNIT #331 JOB NUMBER  
82 via IBALL GAS CHART DATA BASE  
"Thornton G 29 30 HN. mdb"

Depth Labels

% Lith

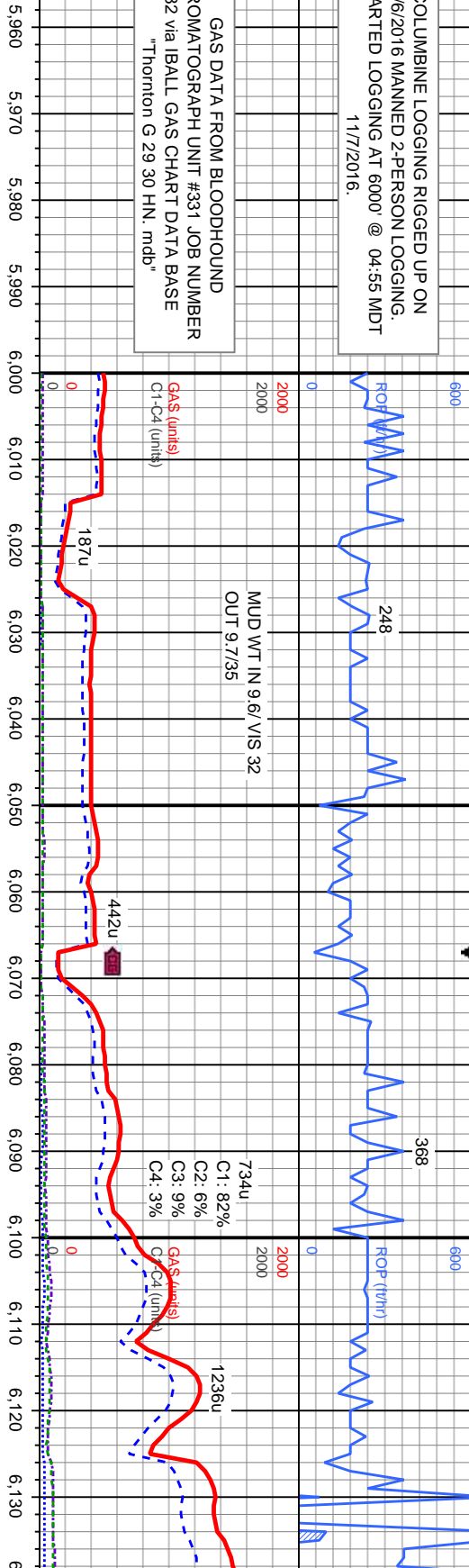
Gamma  
GAMMA

Well Bore  
TVD

Oil Show

Images

E  
G  
M  
F  
T  
ST



SURVEY, GAMMA, and ROP DATA  
PROVIDED BY BAKER HUGHES

Bit Data  
Bit #: 2  
Type: HCC AT505F  
Size: 8.5  
Depth In: 1.557'  
Jets: 5x15  
S/N: 7161277

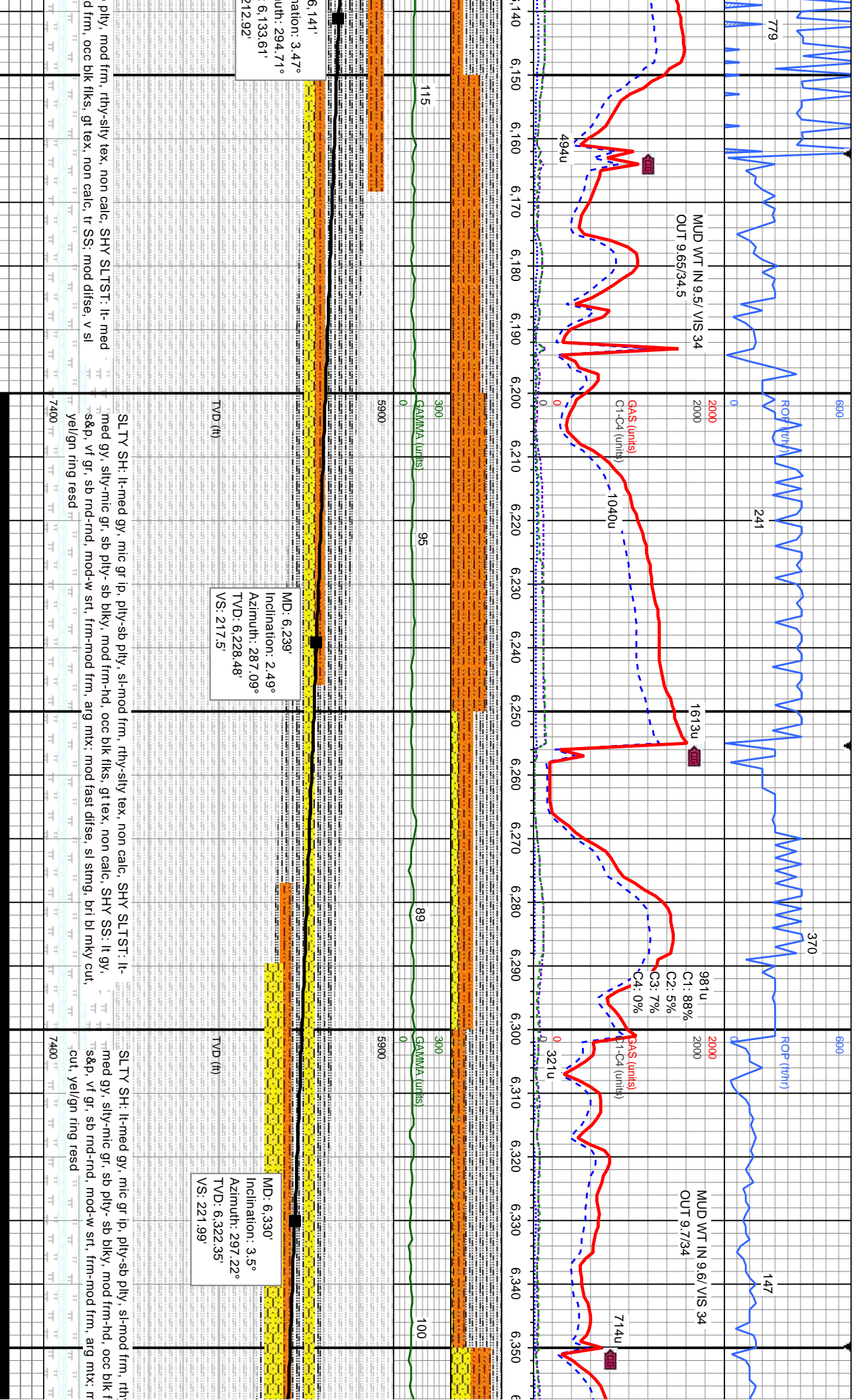
MD: 6.047'  
Inclination: 3.52°  
Azimuth: 294.34°  
TVD: 6.039.78'  
VS: 207.72'

SLTY SH: lt-med gy, mic gr ip, ply-sb ply, mod frm, rthy-sily tex, non calc, SHY SLIST: lt-med gy, sily-mic gr ip, sb ply-sb blkly, mod frm, occ blk flks, gt tex, non calc; mod fast difse, sl stimg, bri bl mky cut, yel/gn ring read

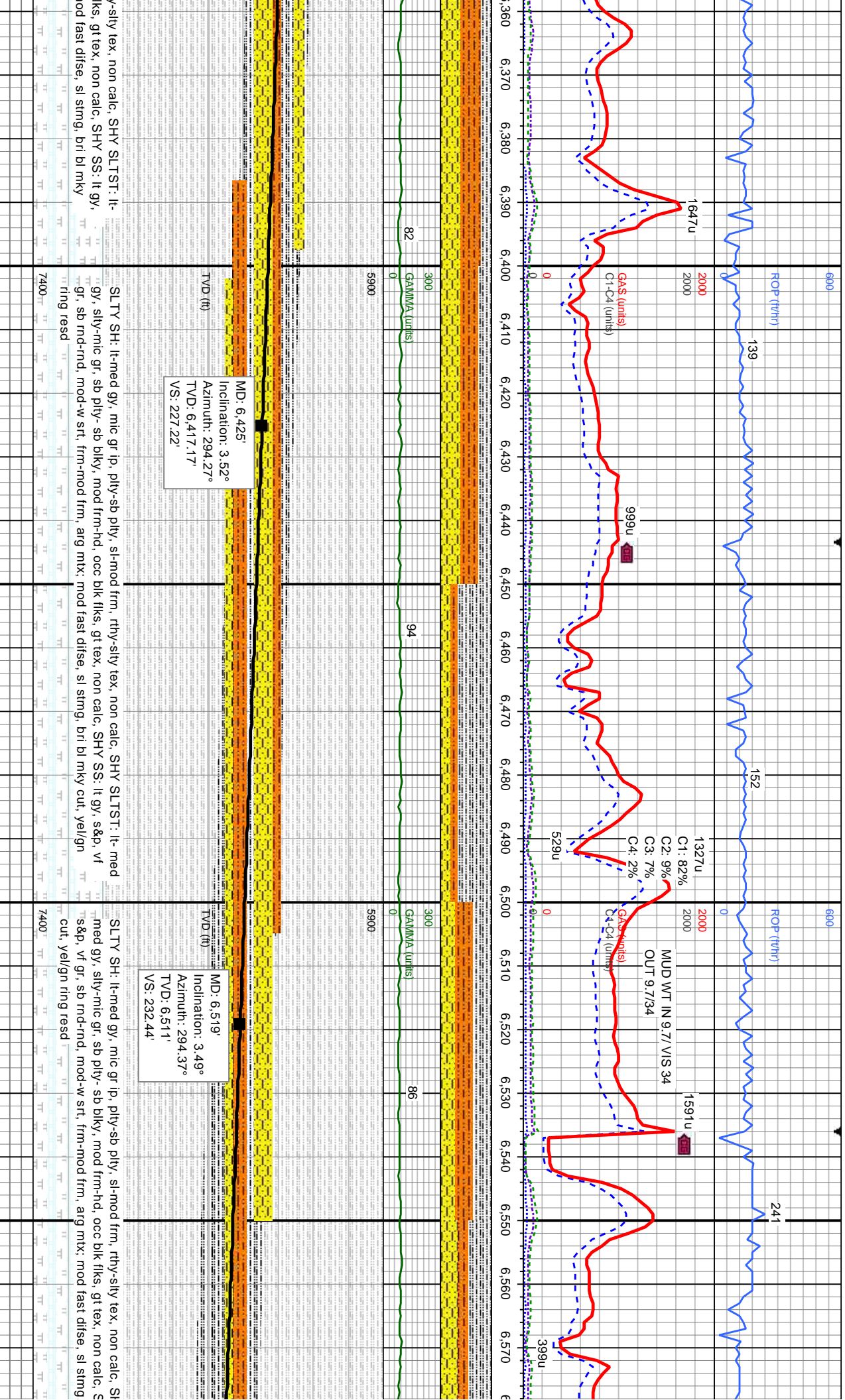
SLTY SH: lt-med gy, mic gr ip, ply-sb blkly, sily-mic gr ip, sb ply-sb blkly, mod frm, occ blk flks, gt tex, non calc; mod fast difse, dul bl cut, org/bm ring read

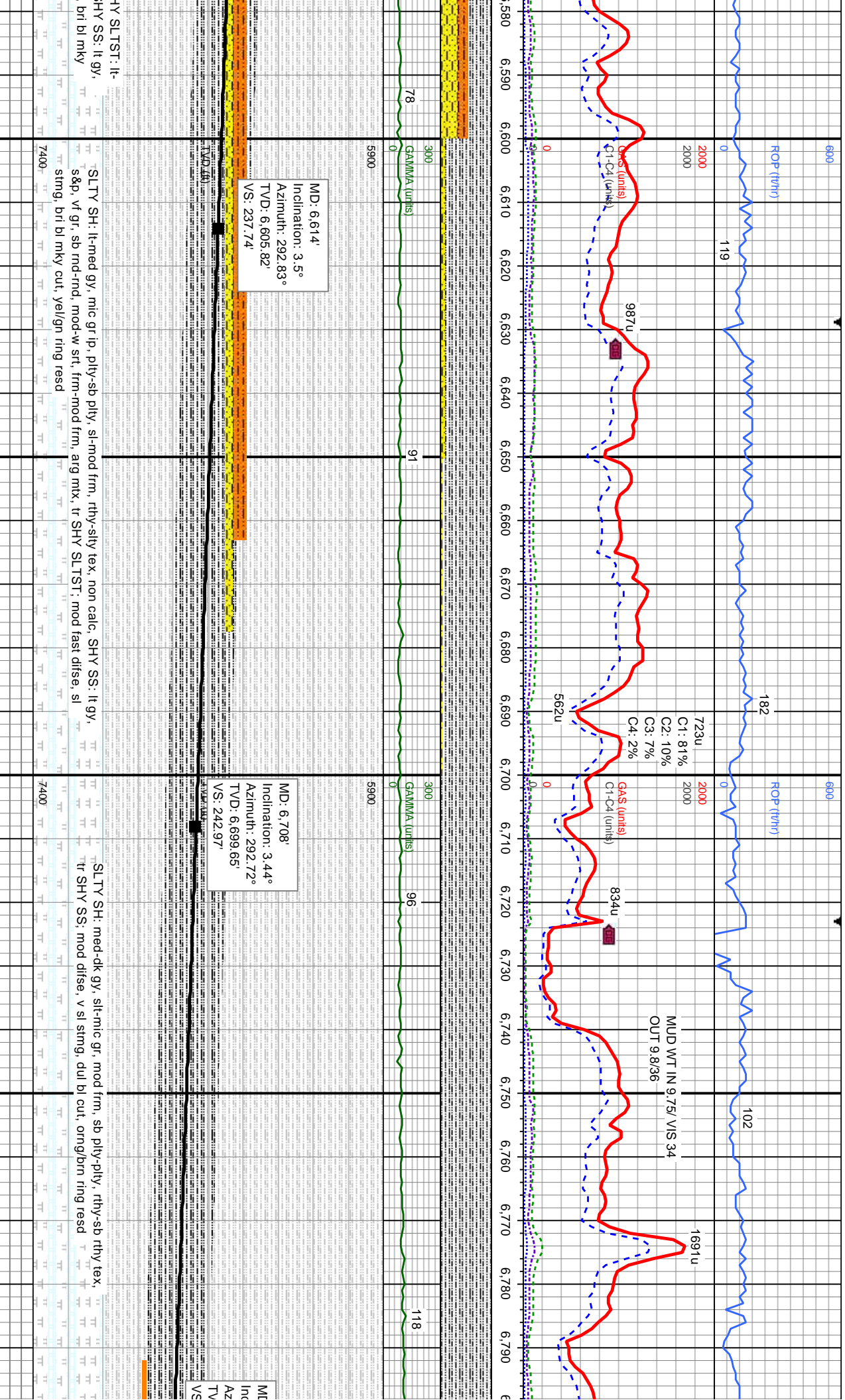




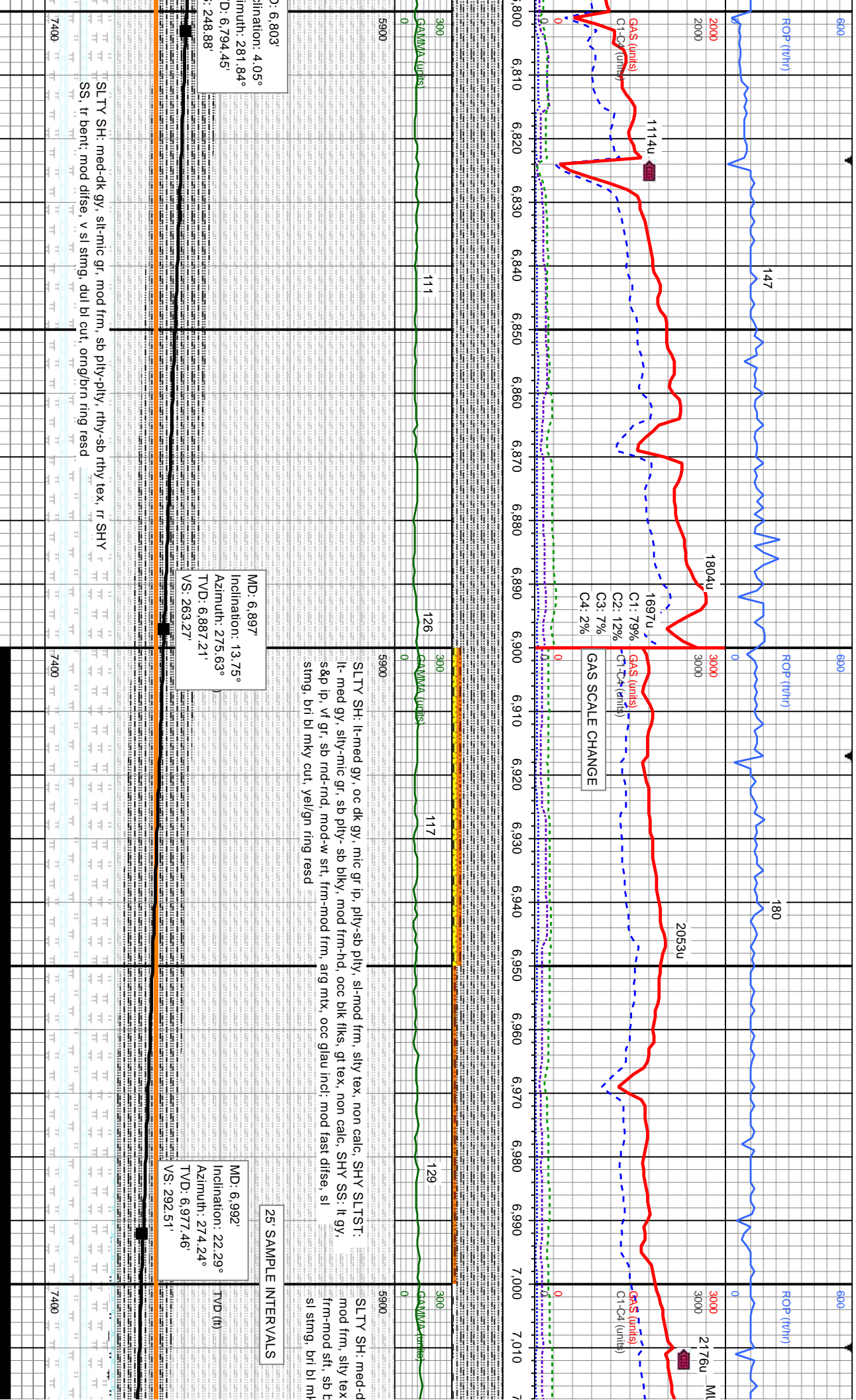






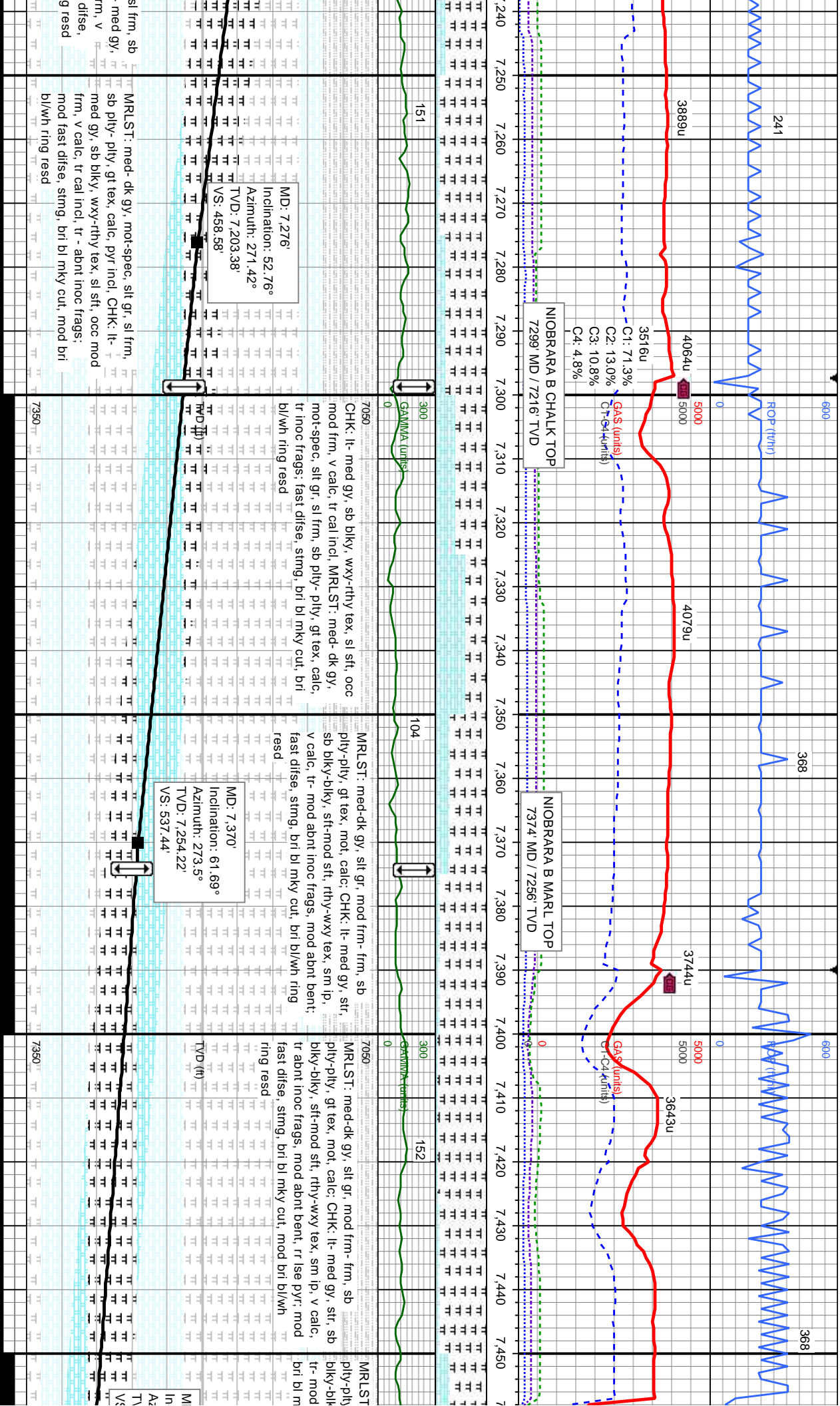




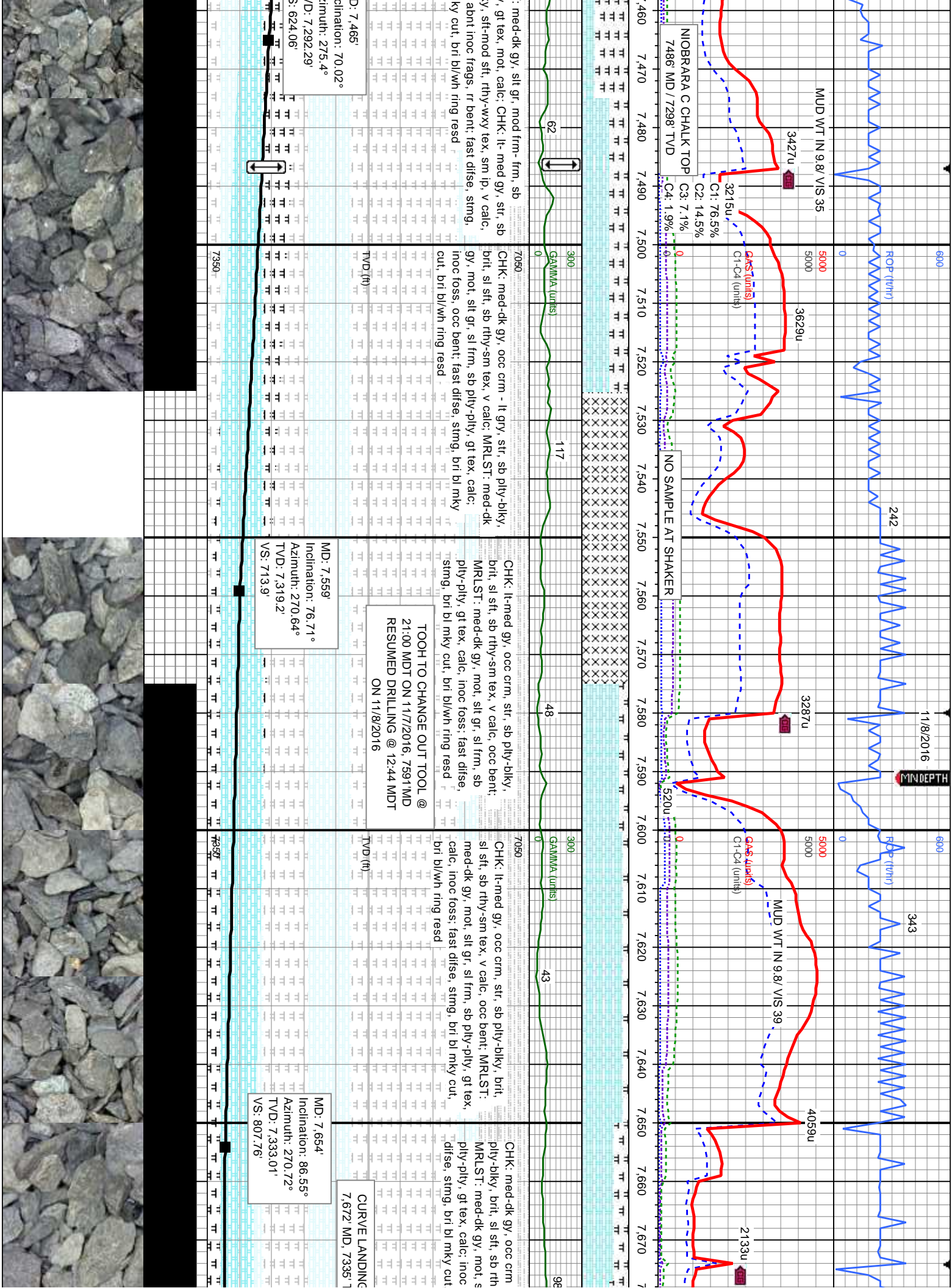




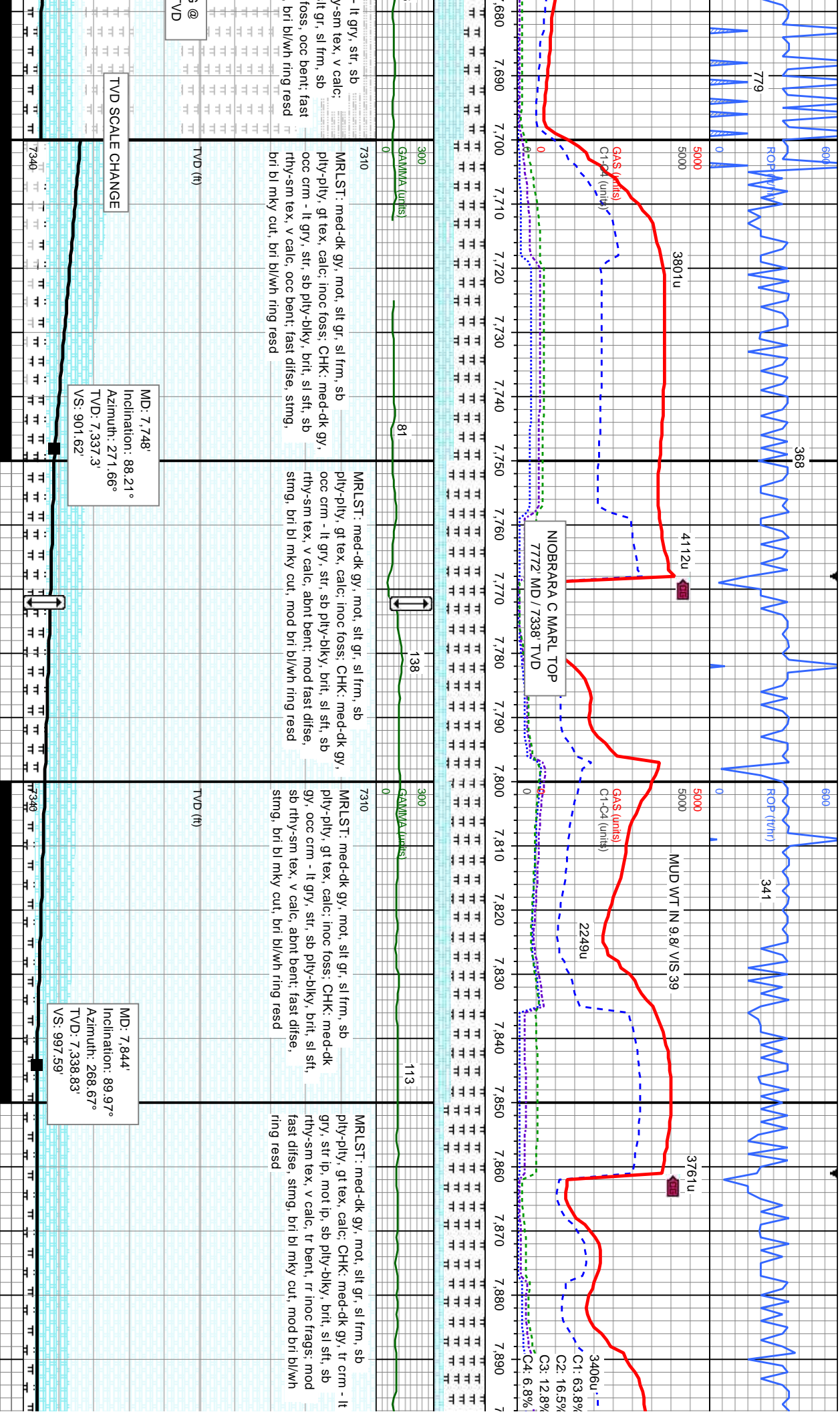










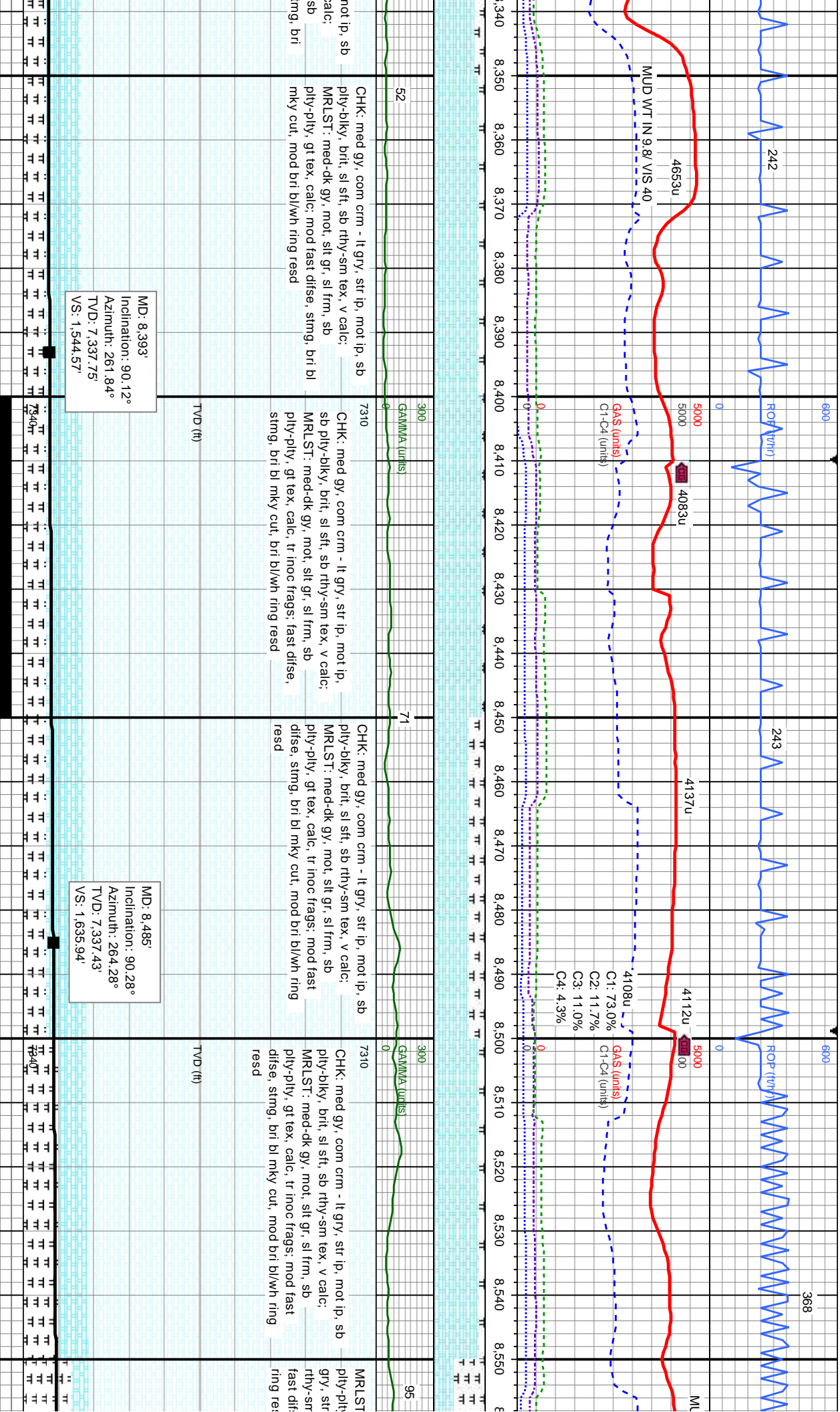






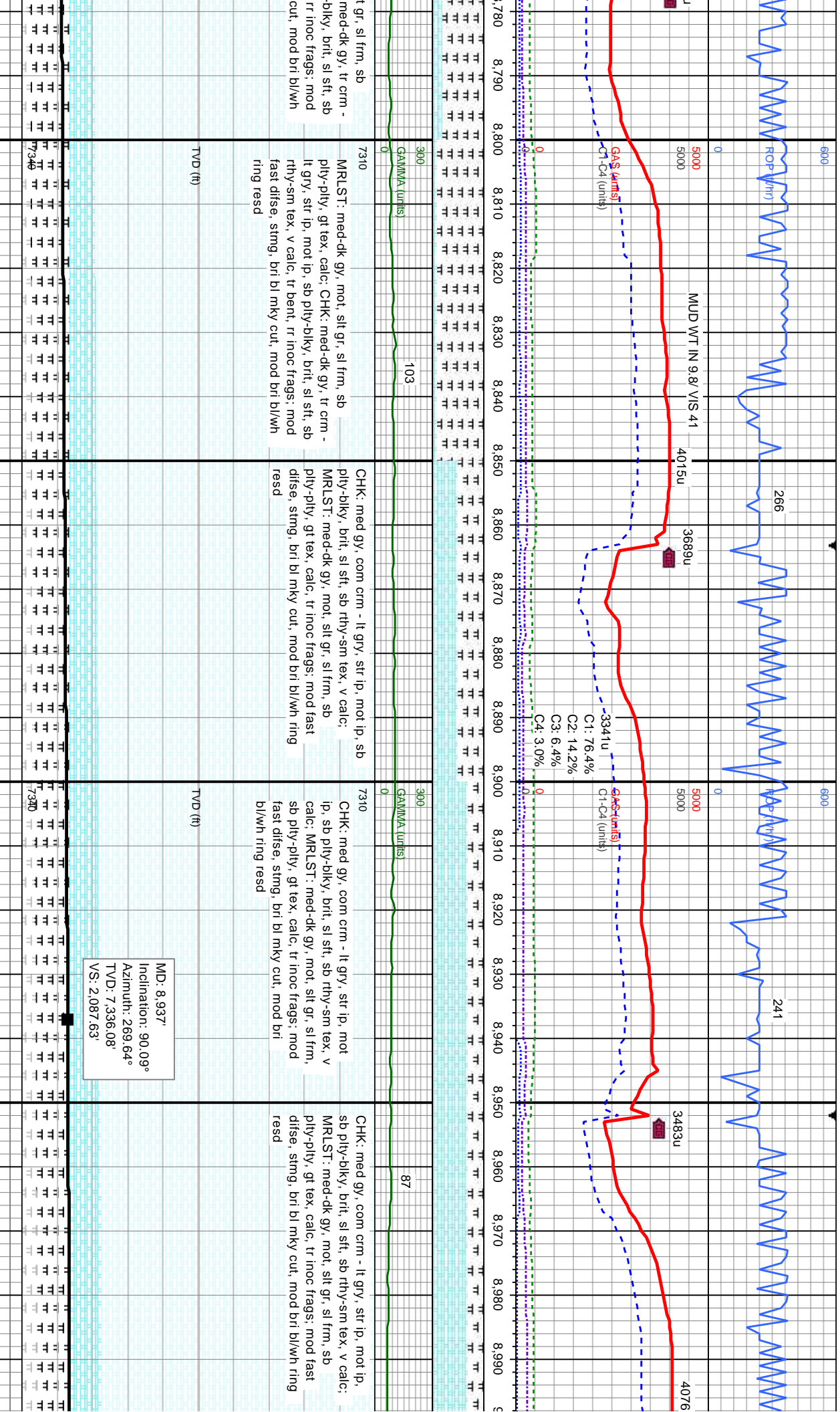




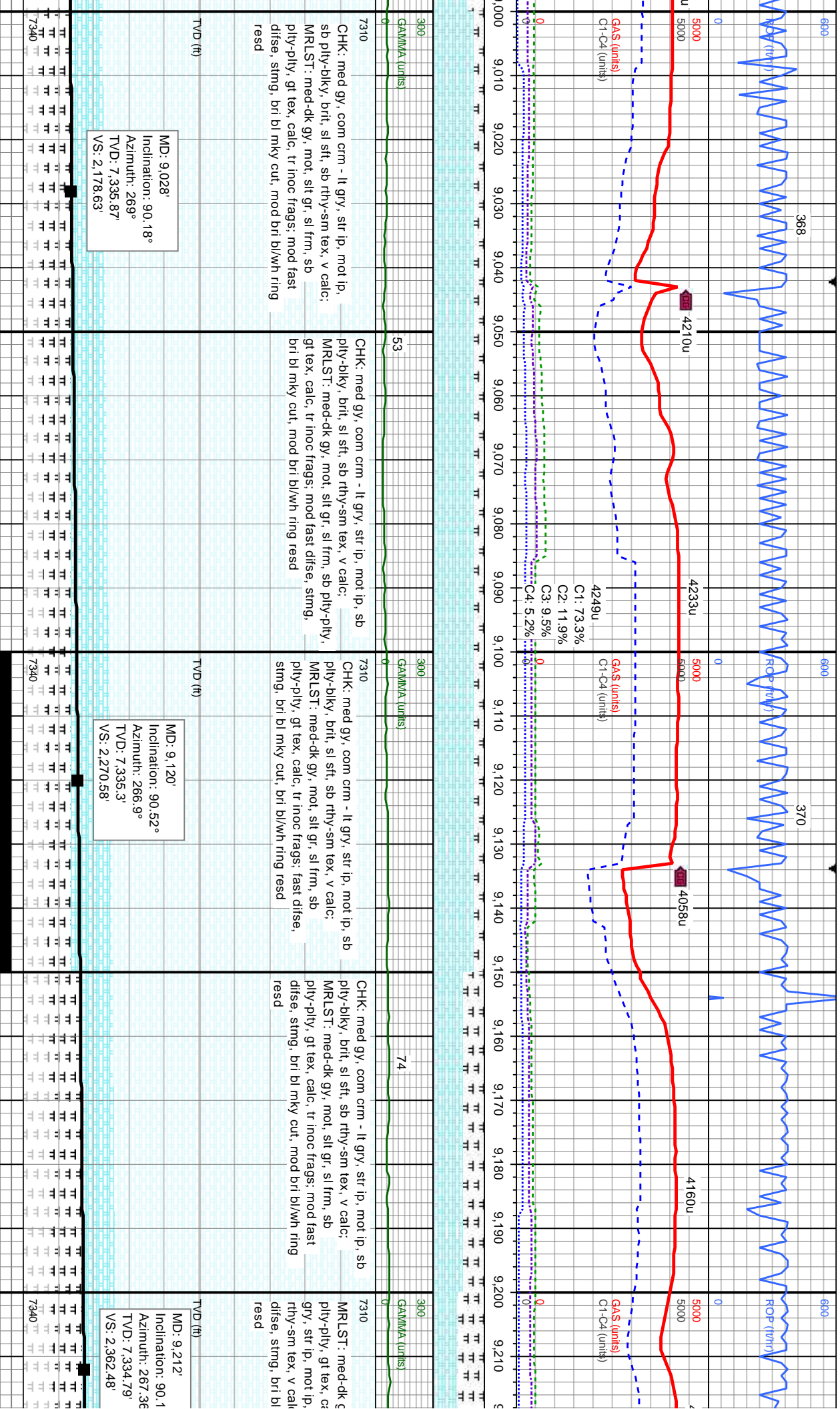


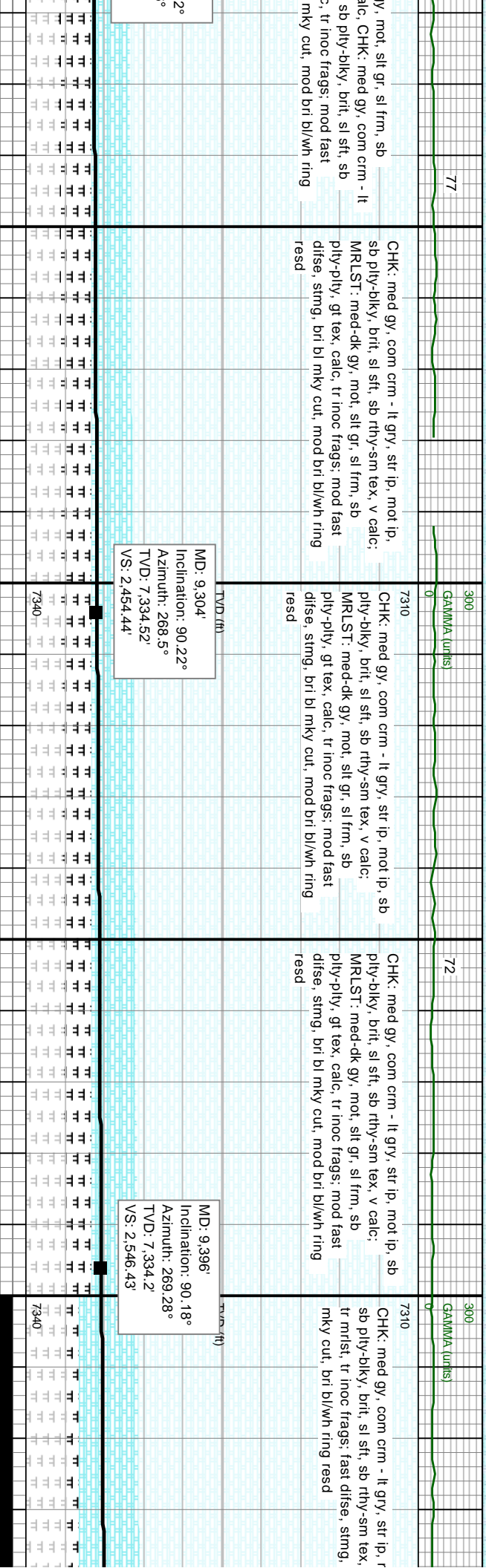




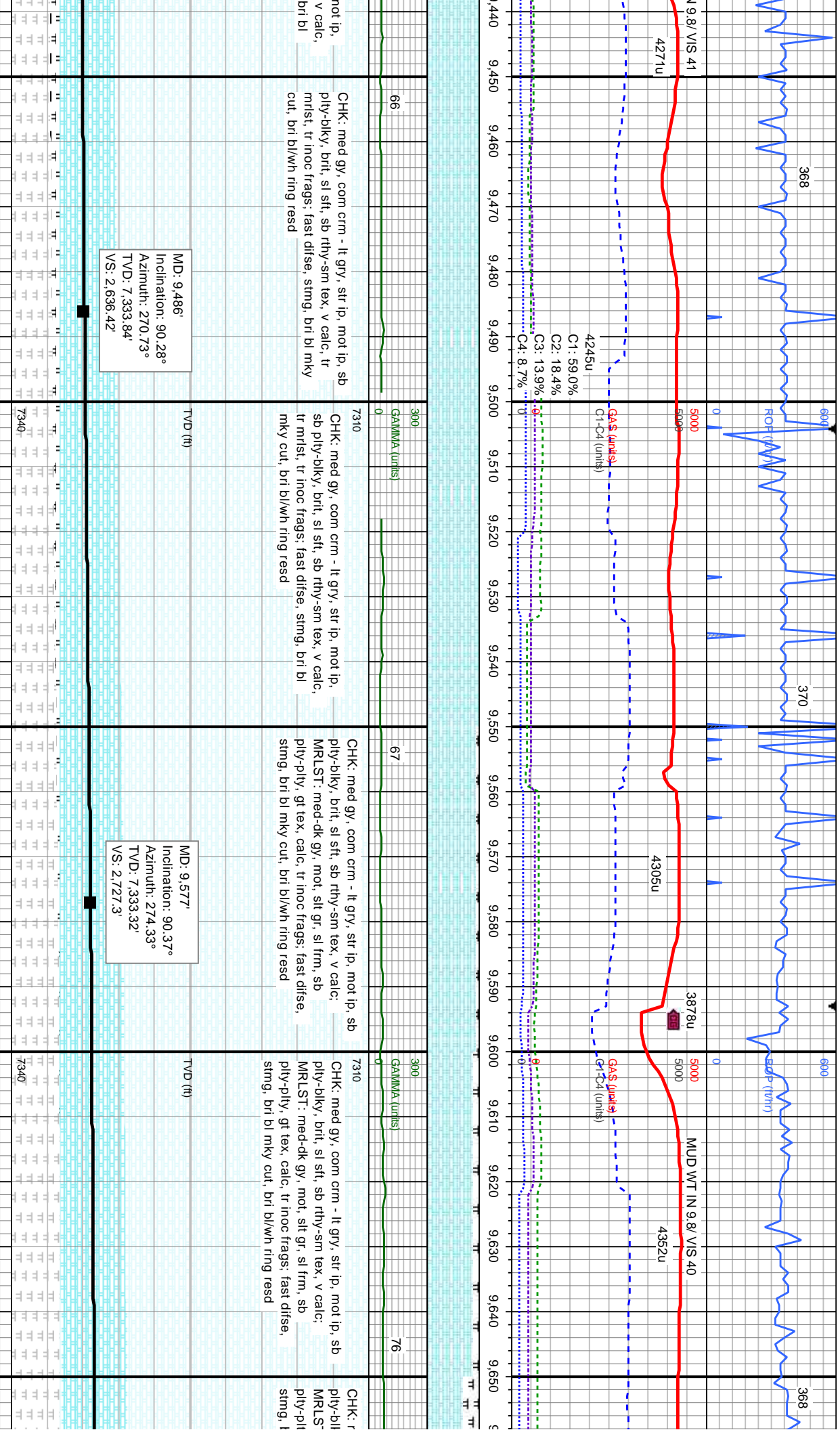












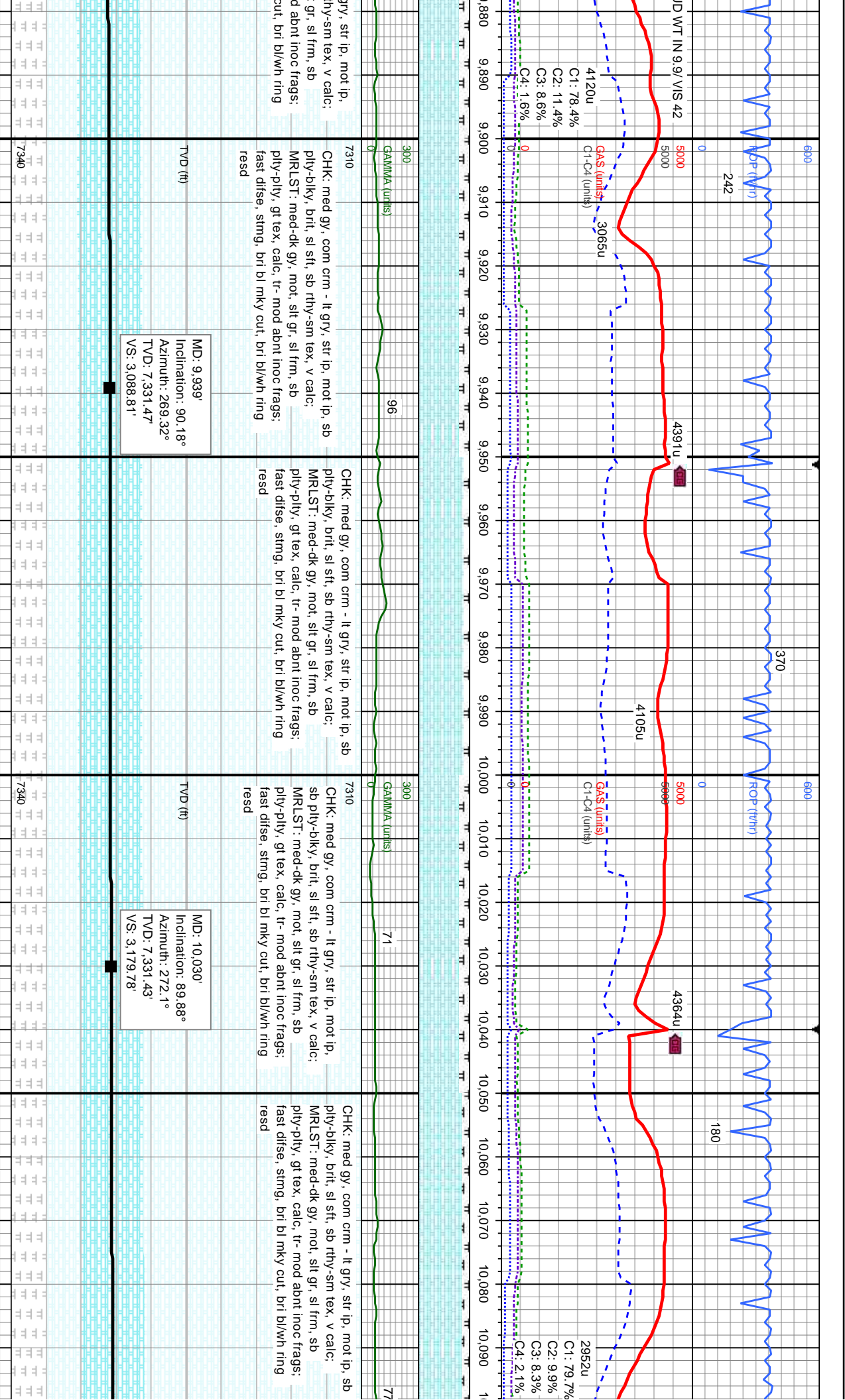
MD: 9.486'  
Inclination: 90.28°  
Azimuth: 270.73°  
TVD: 7.333.84'  
VS: 2.636.42'

MD: 9.577'  
Inclination: 90.37°  
Azimuth: 274.33°  
TVD: 7.333.32'  
VS: 2.727.3'









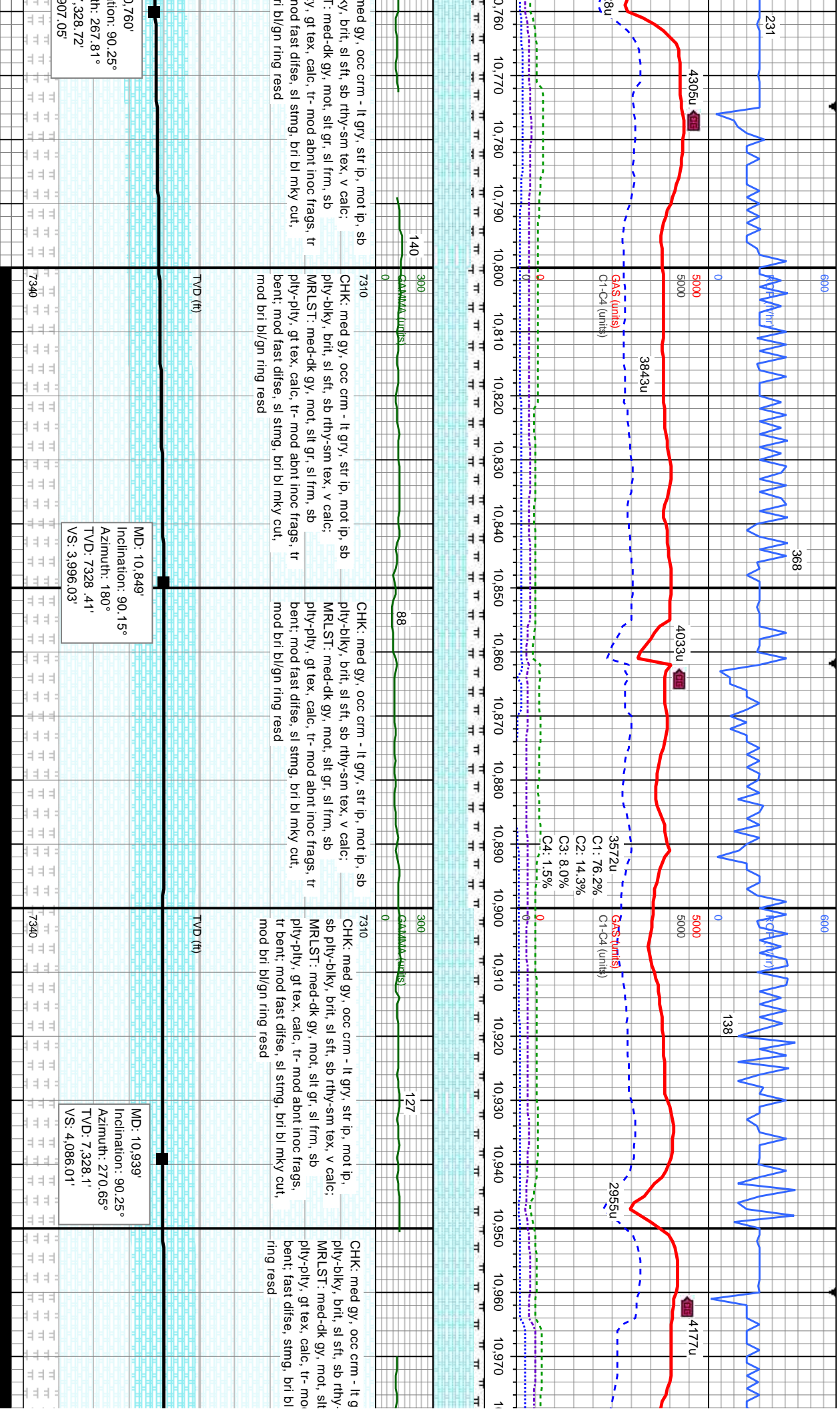




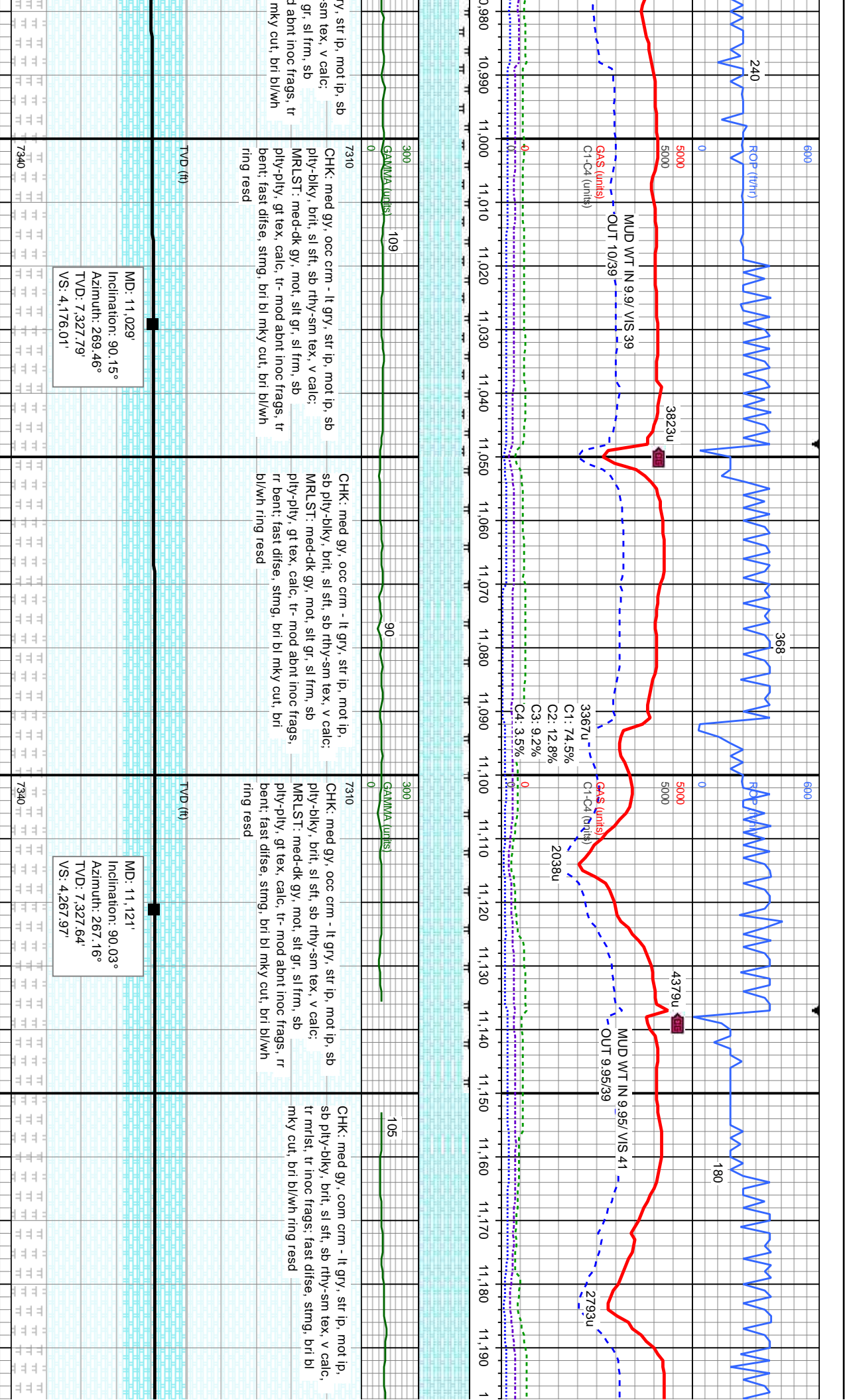


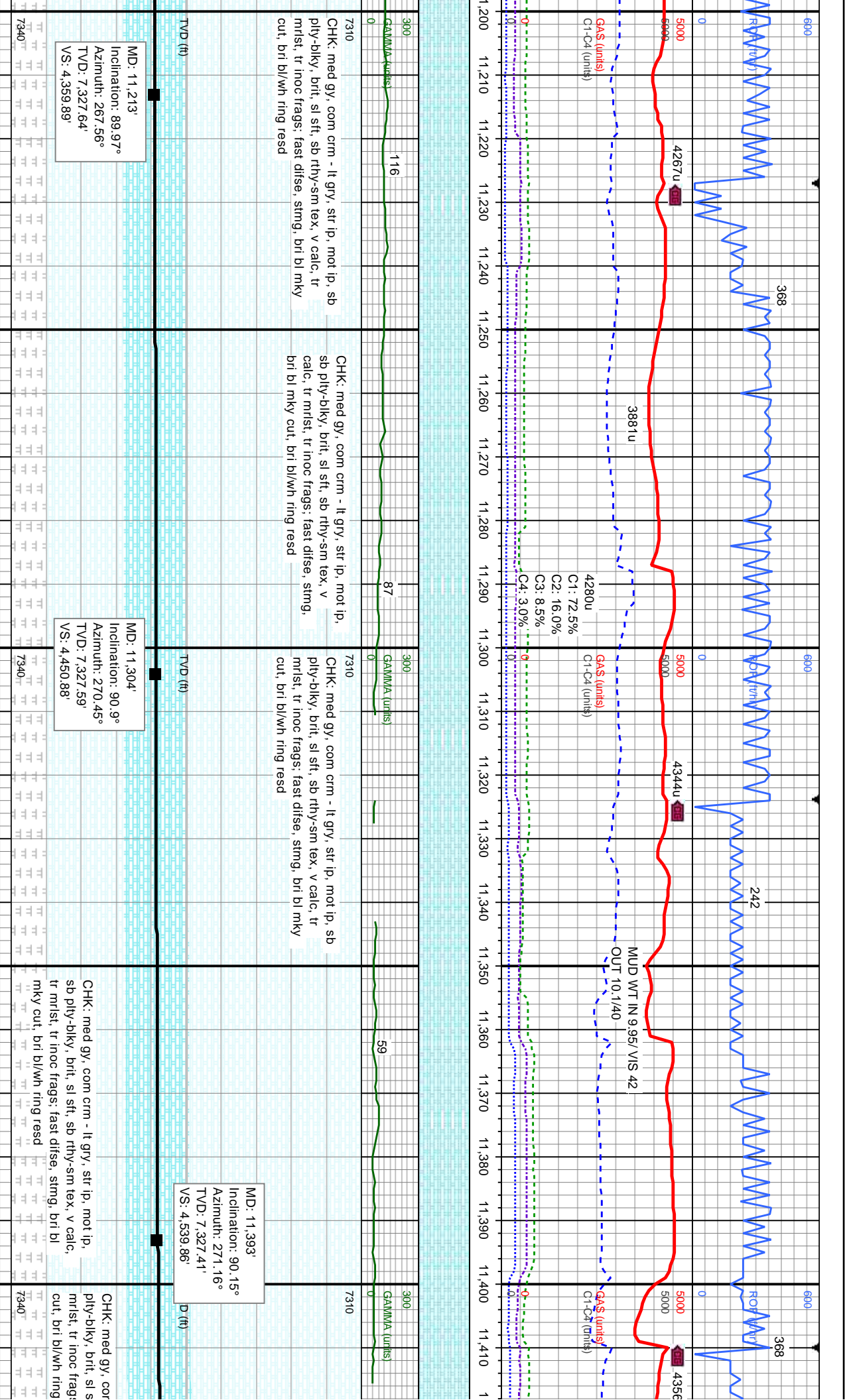




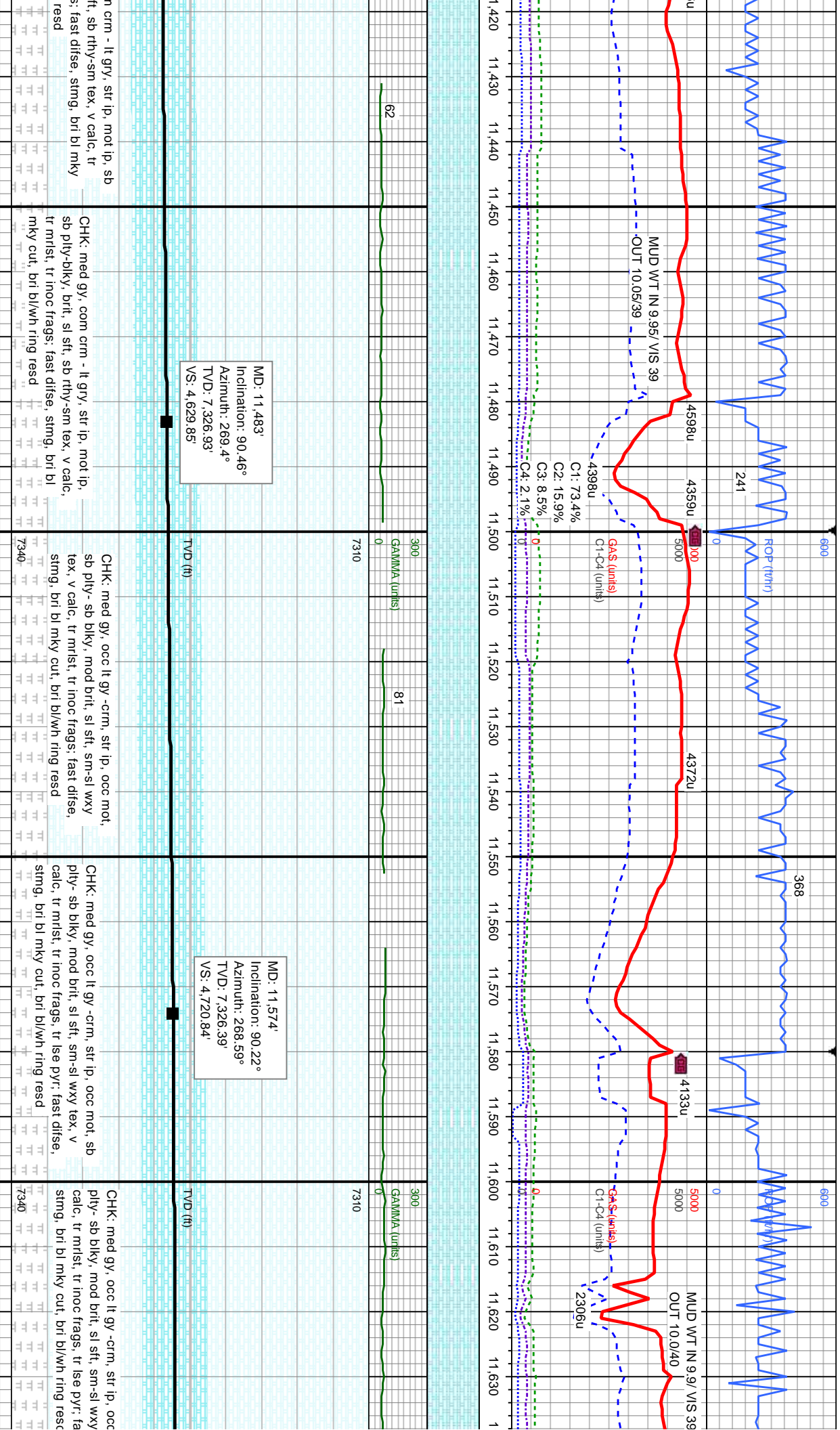












CHK: med gy, com crm - lt gry, str ip, mot ip, sb ply-biky, brit, sl sft, sb rthy-sm tex, v calc, tr mltst, tr inoc frags: fast difse, sting, bri bl mky cut, bri bl/wlh ring resd

CHK: med gy, occ lt gy -crm, str ip, occ mot, sb ply- sb biky, mod brit, sl sft, sm-sl wxy tex, v calc, tr mltst, tr inoc frags: fast difse, sting, bri bl mky cut, bri bl/wlh ring resd

CHK: med gy, occ lt gy -crm, str ip, occ mot, sb ply- sb biky, mod brit, sl sft, sm-sl wxy tex, v calc, tr mltst, tr inoc frags, tr lse pyr: fast difse, sting, bri bl mky cut, bri bl/wlh ring resd

CHK: med gy, occ lt gy -crm, str ip, occ ply- sb biky, mod brit, sl sft, sm-sl wxy calc, tr mltst, tr inoc frags, tr lse pyr: fast difse, sting, bri bl mky cut, bri bl/wlh ring resd

n crm - lt gry, str ip, mot ip, sb ft, sb rthy-sm tex, v calc, tr s, fast difse, sting, bri bl mky resd

CHK: med gy, com crm - lt gry, str ip, mot ip, sb ply-biky, brit, sl sft, sb rthy-sm tex, v calc, tr mltst, tr inoc frags: fast difse, sting, bri bl mky cut, bri bl/wlh ring resd

CHK: med gy, occ lt gy -crm, str ip, occ mot, sb ply- sb biky, mod brit, sl sft, sm-sl wxy tex, v calc, tr mltst, tr inoc frags: fast difse, sting, bri bl mky cut, bri bl/wlh ring resd

CHK: med gy, occ lt gy -crm, str ip, occ mot, sb ply- sb biky, mod brit, sl sft, sm-sl wxy tex, v calc, tr mltst, tr inoc frags, tr lse pyr: fast difse, sting, bri bl mky cut, bri bl/wlh ring resd

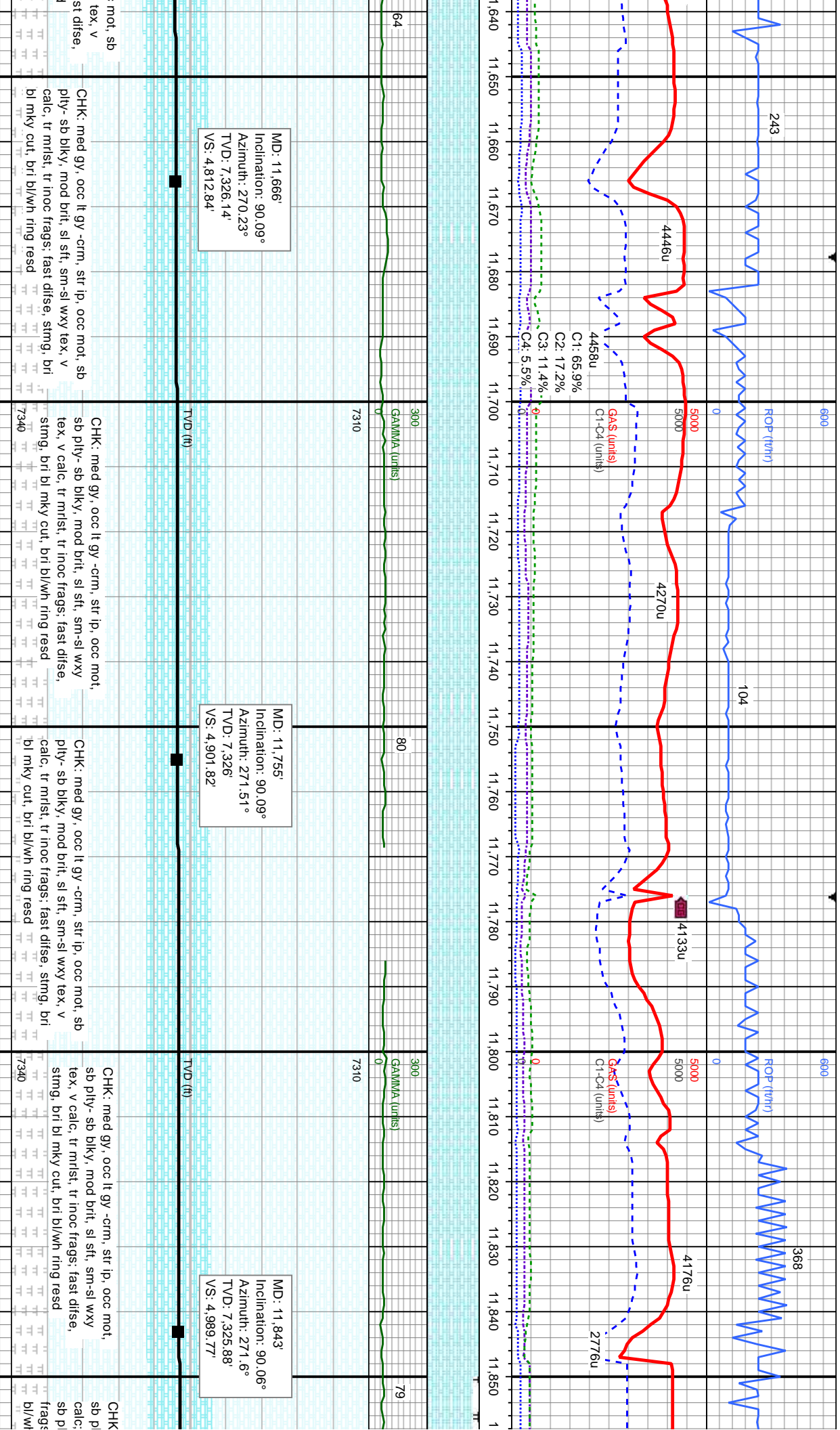
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CHK: med gy, com crm - lt gry, str ip, mot ip, sb ply-biky, brit, sl sft, sb rthy-sm tex, v calc, tr mltst, tr inoc frags: fast difse, sting, bri bl mky cut, bri bl/wlh ring resd

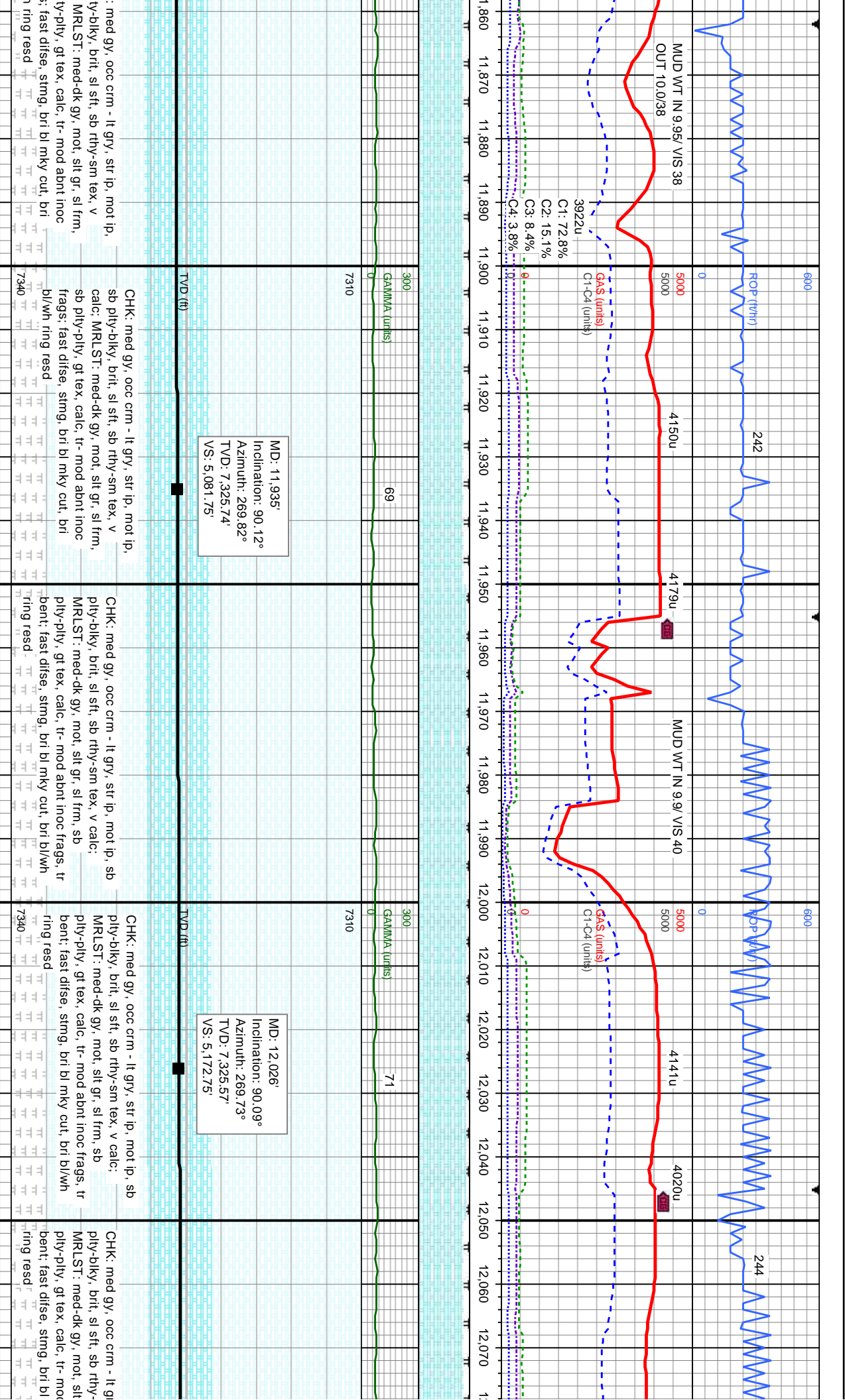
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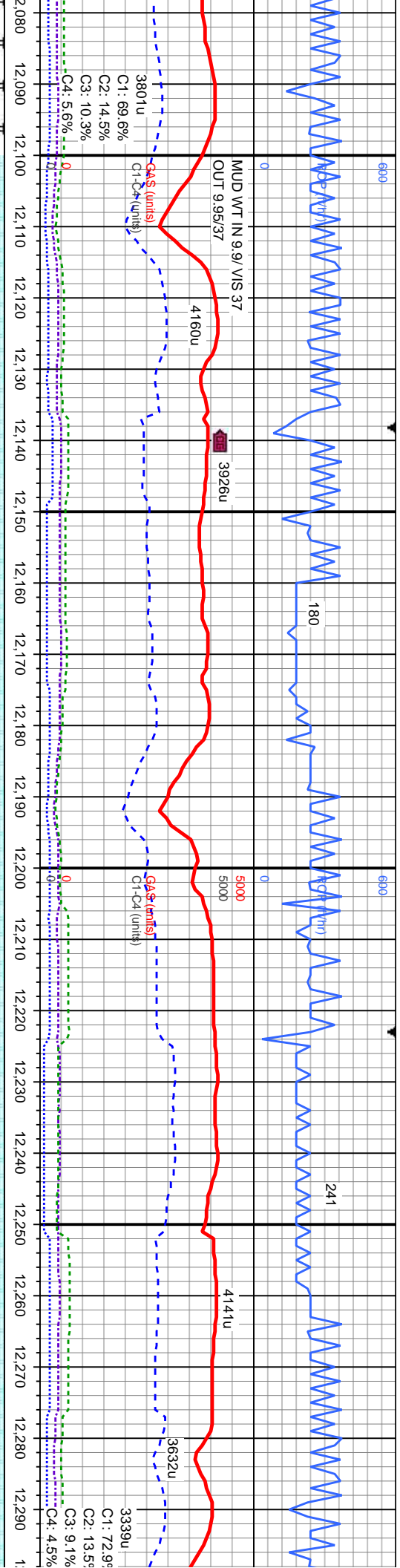
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CHK: med gy, occ lt gy -crm, str ip, occ ply- sb biky, mod brit, sl sft, sm-sl wxy calc, tr mltst, tr inoc frags, tr lse pyr: fast difse, sting, bri bl mky cut, bri bl/wlh ring resd









MD: 12,118'  
Inclination: 90.09°  
Azimuth: 268.19°  
TVD: 7,325.43'  
VS: 5,264.74'

MD: 12,210'  
Inclination: 90.06°  
Azimuth: 266.84°  
TVD: 7,325.31'  
VS: 5,356.67'

MD: 12,210'  
Inclination: 90.06°  
Azimuth: 266.84°  
TVD: 7,325.31'  
VS: 5,356.67'

CHK: med gy, occ lt gy -crm, str ip, occ mot, sb  
ply- sb blk, mod brt, sl sft, sm-sl wxy tex, v  
calc, tr mltst, tr inoc frags, rr bent; fast dfse,  
stmg, bri bl mky cut, bri bl/w ring resd

CHK: med gy, occ lt gy -crm, str ip, occ mot, sb  
ply- sb blk, mod brt, sl sft, sm-sl wxy tex, v  
calc, tr mltst, tr inoc frags, rr bent; fast dfse,  
stmg, bri bl mky cut, bri bl/w ring resd

CHK: med gy, occ lt gy -crm, str ip, occ mot, sb  
ply- sb blk, mod brt, sl sft, sm-sl wxy tex, v  
calc, tr mltst, tr inoc frags, rr bent; fast dfse,  
stmg, bri bl mky cut, bri bl/w ring resd

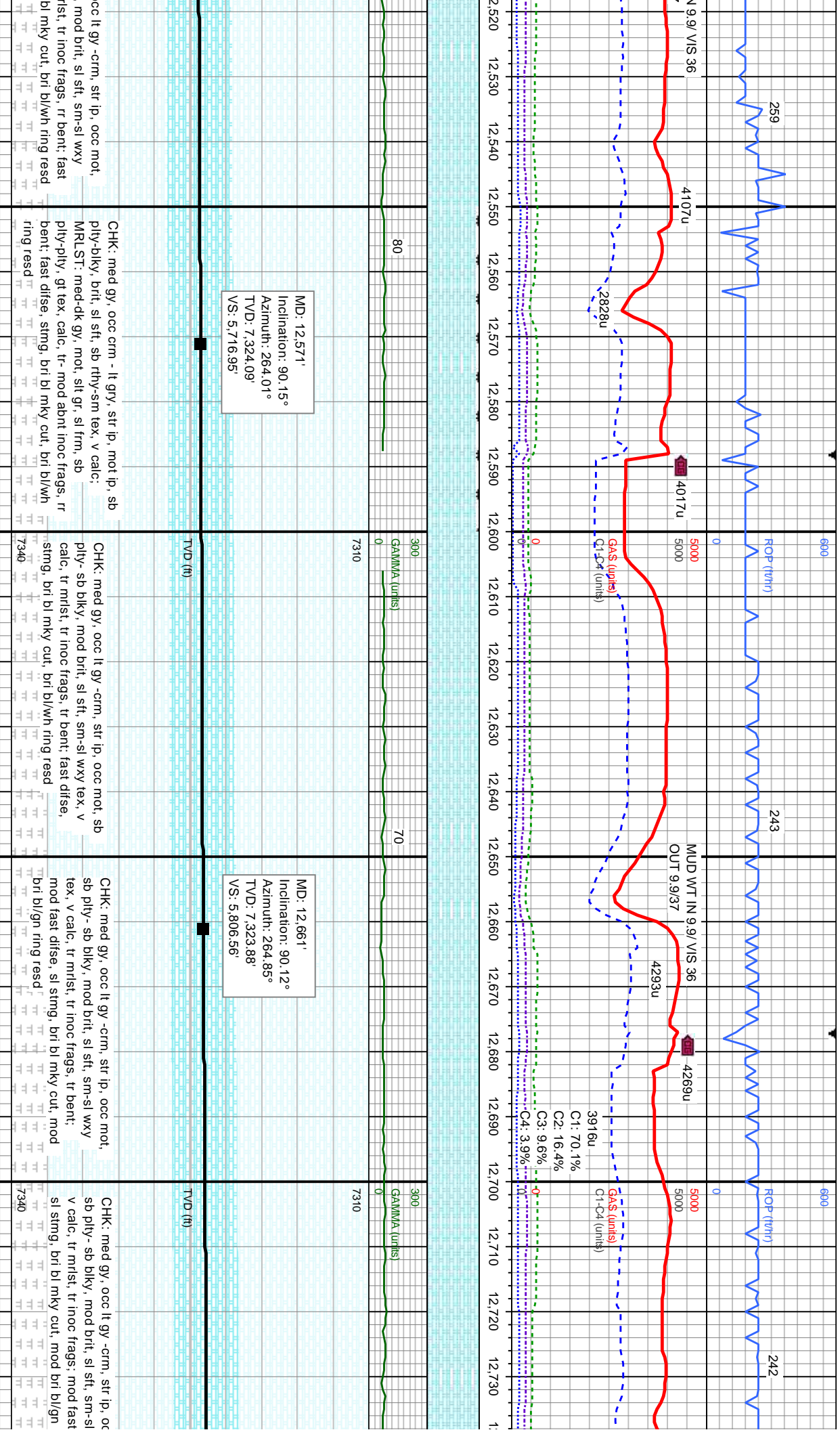
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ply- sb blk, mod brt, sl sft, sm-sl wxy tex, v  
calc, tr mltst, tr inoc frags, rr bent; fast dfse,  
stmg, bri bl mky cut, bri bl/w ring resd

CHK: med gy, occ lt gy -crm, str ip, occ mot, sb  
ply- sb blk, mod brt, sl sft, sm-sl wxy tex, v  
calc, tr mltst, tr inoc frags, rr bent; fast dfse,  
stmg, bri bl mky cut, bri bl/w ring resd

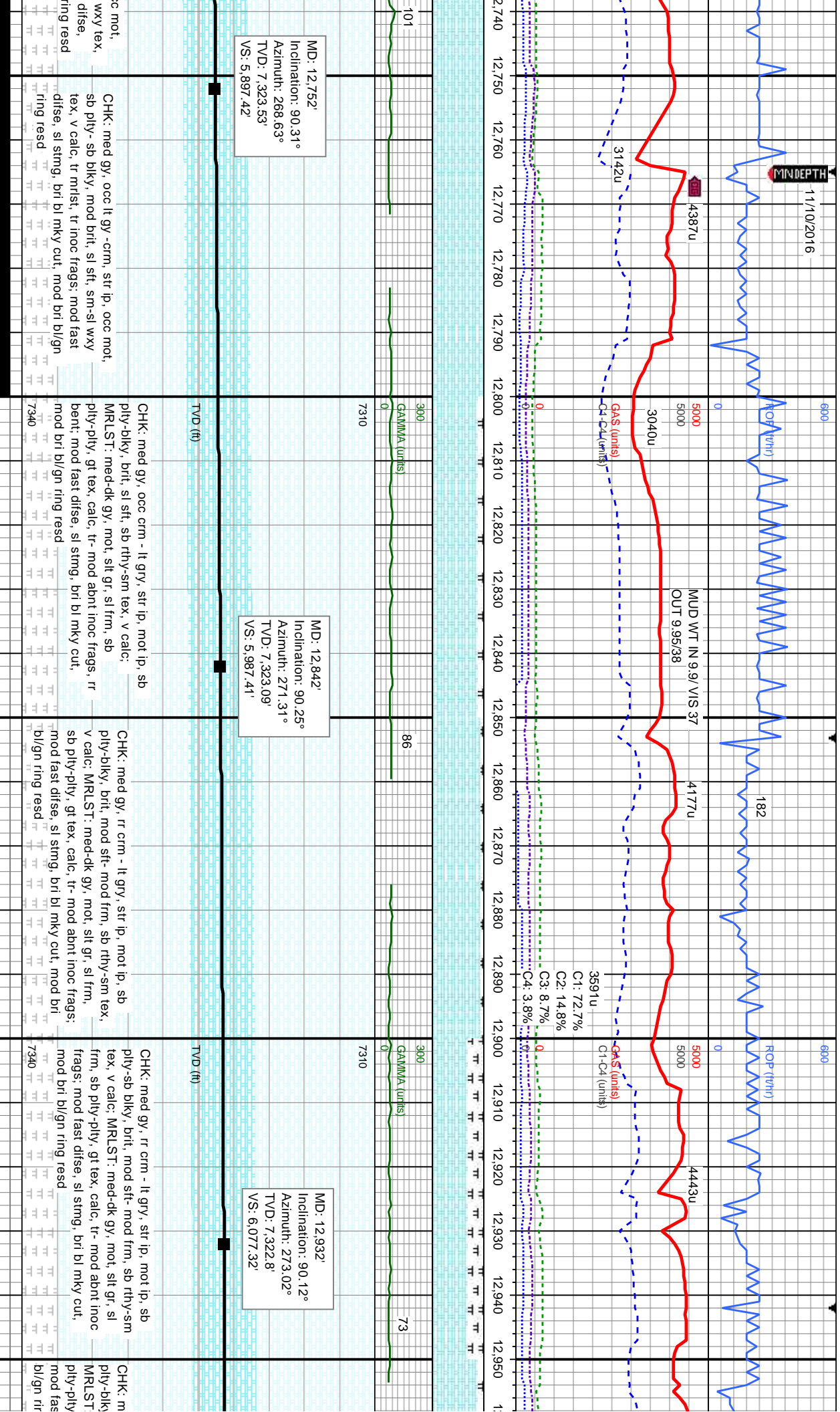


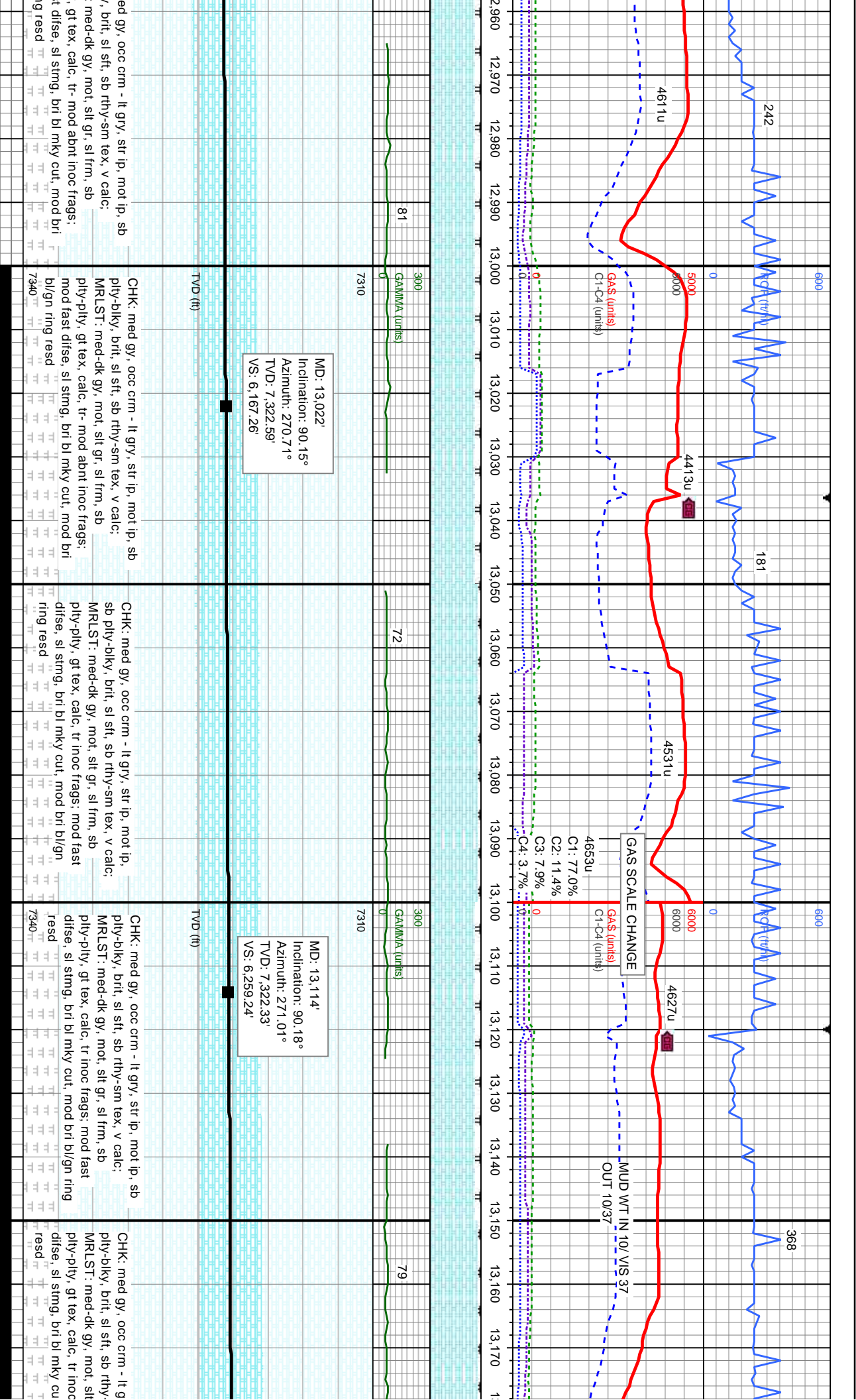












ed gy, occ crm - lt gry, str ip, mot ip, sb  
ply-blky, brit, sl sft, sb rthy-sm tex, v calc;  
med-dk gy, mot, slt gr, sl frm, sb  
ply-ply, gt tex, calc, tr- mod abnt inoc frags;  
t difse, sl stmg, bri bl mky cut, mod bri  
g resd

CHK: med gy, occ crm - lt gry, str ip, mot ip, sb  
ply-blky, brit, sl sft, sb rthy-sm tex, v calc;  
MRLST: med-dk gy, mot, slt gr, sl frm, sb  
ply-ply, gt tex, calc, tr- mod abnt inoc frags;  
mod fast difse, sl stmg, bri bl mky cut, mod bri  
bl/gn ring resd

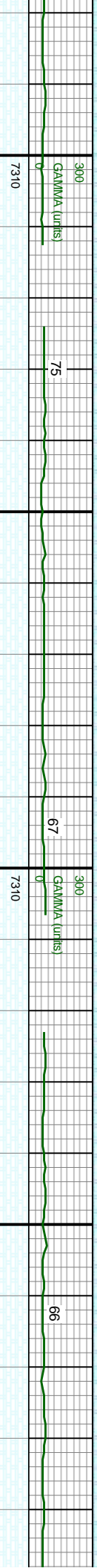
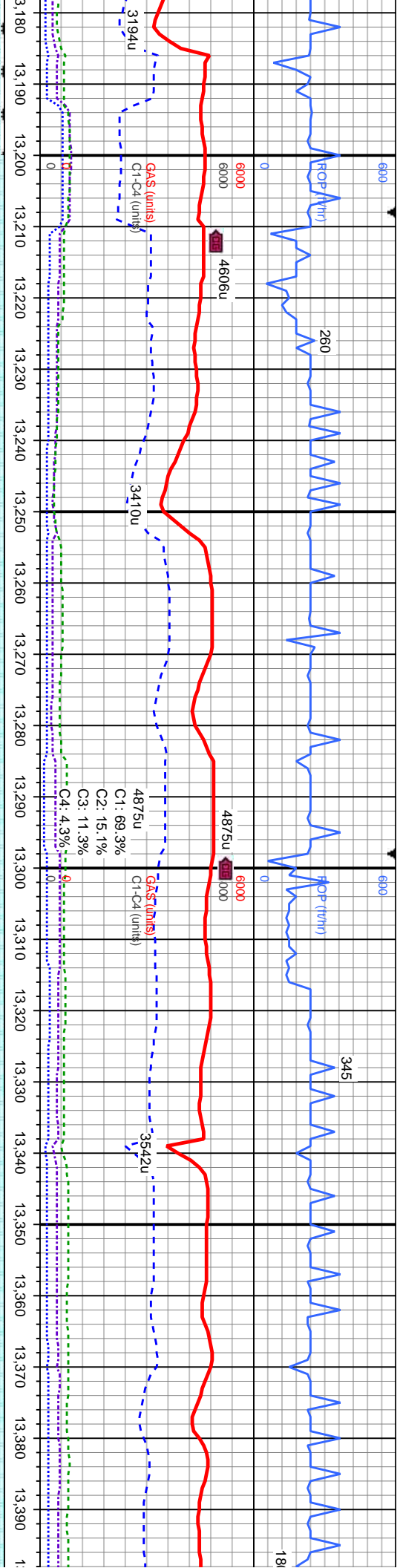
CHK: med gy, occ crm - lt gry, str ip, mot ip,  
sb ply-blky, brit, sl sft, sb rthy-sm tex, v calc;  
MRLST: med-dk gy, mot, slt gr, sl frm, sb  
ply-ply, gt tex, calc, tr inoc frags, mod fast  
difse, sl stmg, bri bl mky cut, mod bri bl/gn  
ring resd

CHK: med gy, occ crm - lt gry, str ip, mot ip, sb  
ply-blky, brit, sl sft, sb rthy-sm tex, v calc;  
MRLST: med-dk gy, mot, slt gr, sl frm, sb  
ply-ply, gt tex, calc, tr inoc frags, mod fast  
difse, sl stmg, bri bl mky cut, mod bri bl/gn ring  
resd

CHK: med gy, occ crm - lt g  
ply-blky, brit, sl sft, sb rhy-  
MRLST: med-dk gy, mot, slt  
ply-ply, gt tex, calc, tr inoc  
difse, sl stmg, bri bl mky cu  
resd







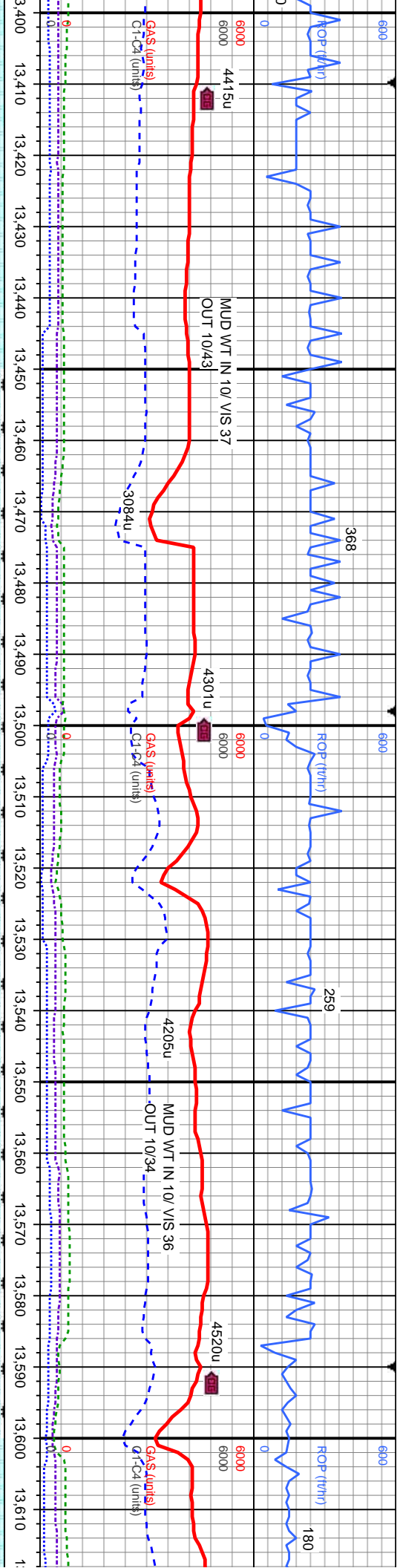
MD: 13,206'  
Inclination: 90.15°  
Azimuth: 271.24°  
TVD: 7,322.06'  
VS: 6,351.21'

MD: 13,297'  
Inclination: 90.25°  
Azimuth: 271.57°  
TVD: 7,321.74'  
VS: 6,442.17'

MD: 13,389'  
Inclination: 90.25°  
Azimuth: 270.67°  
TVD: 7,321.34'  
VS: 6,534.14'

ROP (ft/hr)	GRS (units)	C1-C4 (units)	GAMMA (units)	CHK: med gy, occ lt gy -crm, str ip, occ mot, sb pty- sb blk, mod brit, sl sft, sm-sl wxy tex, v calc, tr mlst, tr inoc frags, mod fast difse, sl stmg, bri bl mky cut, mod bri bl/gn ring resd
3194u	3194u	3194u	300	CHK: med gy, occ lt gy -crm, str ip, occ mot, sb pty- sb blk, mod brit, sl sft, sm-sl wxy tex, v calc, tr mlst, tr inoc frags, mod fast difse, sl stmg, bri bl mky cut, mod bri bl/gn ring resd
4606u	4606u	4606u	75	CHK: med gy, occ lt gy -crm, str ip, occ mot, sb pty- sb blk, mod brit, sl sft, sm-sl wxy tex, v calc, tr mlst, tr inoc frags, mod fast difse, sl stmg, bri bl mky cut, mod bri bl/gn ring resd
3410u	3410u	3410u	67	CHK: med gy, occ lt gy -crm, str ip, occ mot, sb pty- sb blk, mod brit, sl sft, sm-sl wxy tex, v calc, tr mlst, tr inoc frags, mod fast difse, sl stmg, bri bl mky cut, mod bri bl/gn ring resd
4875u	4875u	4875u	300	CHK: med gy, occ lt gy -crm, str ip, occ mot, sb pty- sb blk, mod brit, sl sft, sm-sl wxy tex, v calc, tr mlst, tr inoc frags, mod fast difse, sl stmg, bri bl mky cut, mod bri bl/gn ring resd
3542u	3542u	3542u	66	CHK: med gy, occ lt gy -crm, str ip, occ mot, sb pty- sb blk, mod brit, sl sft, sm-sl wxy tex, v calc, tr mlst, tr inoc frags, mod fast difse, sl stmg, bri bl mky cut, mod bri bl/gn ring resd
18	18	18	7340	CHK: med gy, occ lt gy -crm, str ip, occ mot, sb pty- sb blk, mod brit, sl sft, sm-sl wxy tex, v calc, tr mlst, tr inoc frags, mod fast difse, sl stmg, bri bl mky cut, mod bri bl/gn ring resd





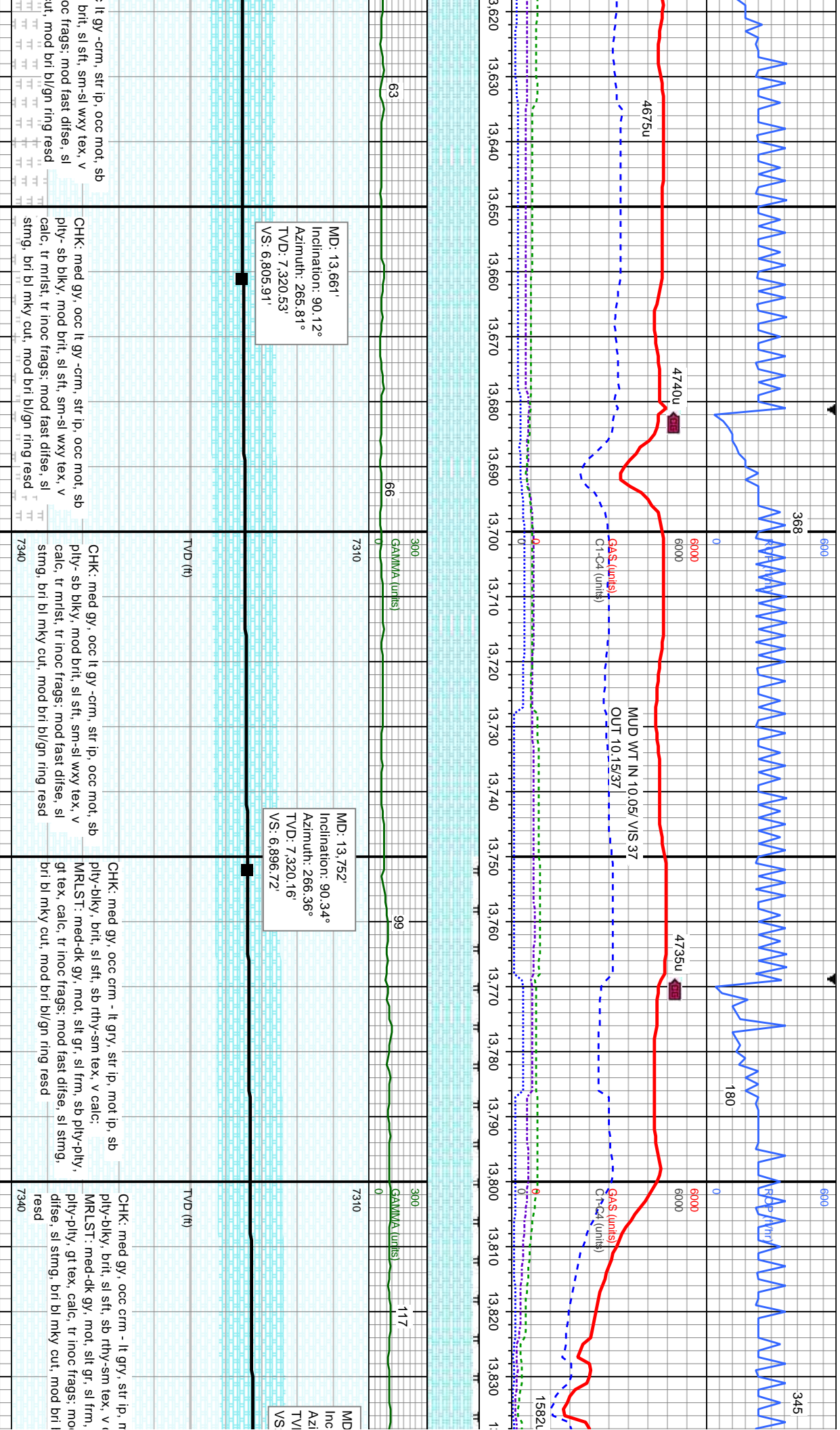
MD: 13,479'  
Inclination: 90.18°  
Azimuth: 269.17°  
TVD: 7,321'  
VS: 6,624.14'

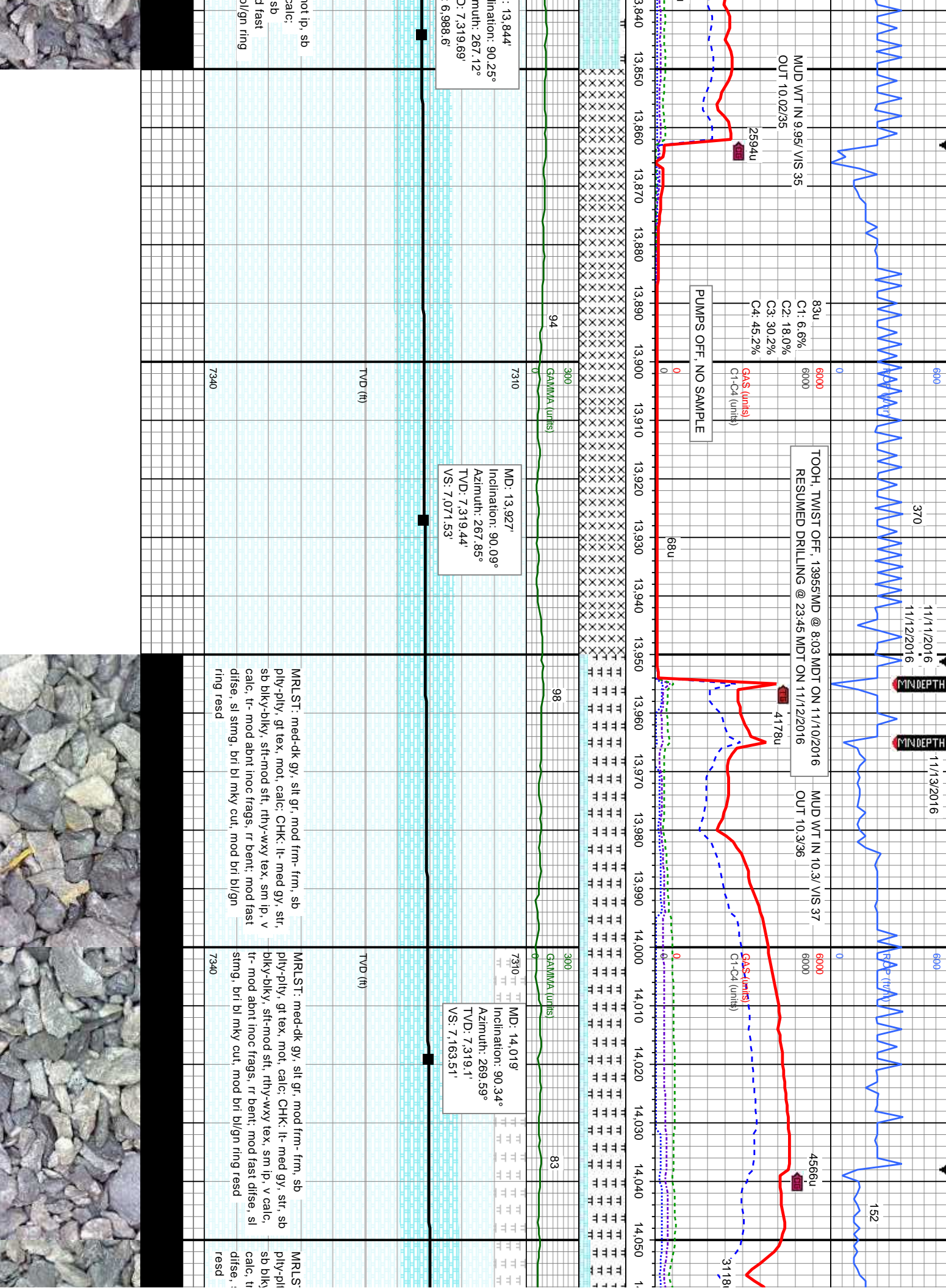
MD: 13,569'  
Inclination: 90.15°  
Azimuth: 266.59°  
TVD: 7,320.74'  
VS: 6,714.08'

300 GAMMA (units)	73	69	300 GAMMA (units)	7310	80	300 GAMMA (units)	7310
0	0	0	0	0	0	0	0
7340	7340	7340	7340	7340	7340	7340	7340
CHK: med gy, occ lt gy -crm, str ip, occ mot, sb ply-sb blkly, mod brit, sl sft, sm-sl wxy tex, v calc, tr mrlst, tr inoc frags: mod fast difse, sl stmg, bri bl mky cut, mod bri bl/gn ring resd	CHK: med gy, occ crm - lt gry, str ip, mot ip, sb ply-blky, brit, sl sft, sb rthy-sm tex, v calc; MRLST: med-dk gy, mot, slt gr, sl frm, sb ply-ply, gt tex, calc, tr inoc frags: mod fast difse, sl stmg, bri bl mky cut, mod bri bl/gn ring resd	CHK: med gy, occ crm - lt gry, str ip, mot ip, sb ply-blky, brit, sl sft, sb rthy-sm tex, v calc; MRLST: med-dk gy, mot, slt gr, sl frm, sb ply-ply, gt tex, calc, tr inoc frags: mod fast difse, sl stmg, bri bl mky cut, mod bri bl/gn ring resd	CHK: med gy, occ crm - lt gry, str ip, mot ip, sb ply-blky, brit, sl sft, sb rthy-sm tex, v calc; MRLST: med-dk gy, mot, slt gr, sl frm, sb ply-ply, gt tex, calc, tr inoc frags: mod fast difse, sl stmg, bri bl mky cut, mod bri bl/gn ring resd	CHK: med gy, occ crm - lt gry, str ip, mot ip, sb ply-blky, brit, sl sft, sb rthy-sm tex, v calc; MRLST: med-dk gy, mot, slt gr, sl frm, sb ply-ply, gt tex, calc, tr inoc frags: mod fast difse, sl stmg, bri bl mky cut, mod bri bl/gn ring resd	CHK: med gy, occ crm - lt gry, str ip, mot ip, sb ply-blky, brit, sl sft, sb rthy-sm tex, v calc; MRLST: med-dk gy, mot, slt gr, sl frm, sb ply-ply, gt tex, calc, tr inoc frags: mod fast difse, sl stmg, bri bl mky cut, mod bri bl/gn ring resd	CHK: med gy, occ crm - lt gry, str ip, mot ip, sb ply-blky, brit, sl sft, sb rthy-sm tex, v calc; MRLST: med-dk gy, mot, slt gr, sl frm, sb ply-ply, gt tex, calc, tr inoc frags: mod fast difse, sl stmg, bri bl mky cut, mod bri bl/gn ring resd	CHK: med gy, occ crm - lt gry, str ip, mot ip, sb ply-blky, brit, sl sft, sb rthy-sm tex, v calc; MRLST: med-dk gy, mot, slt gr, sl frm, sb ply-ply, gt tex, calc, tr inoc frags: mod fast difse, sl stmg, bri bl mky cut, mod bri bl/gn ring resd



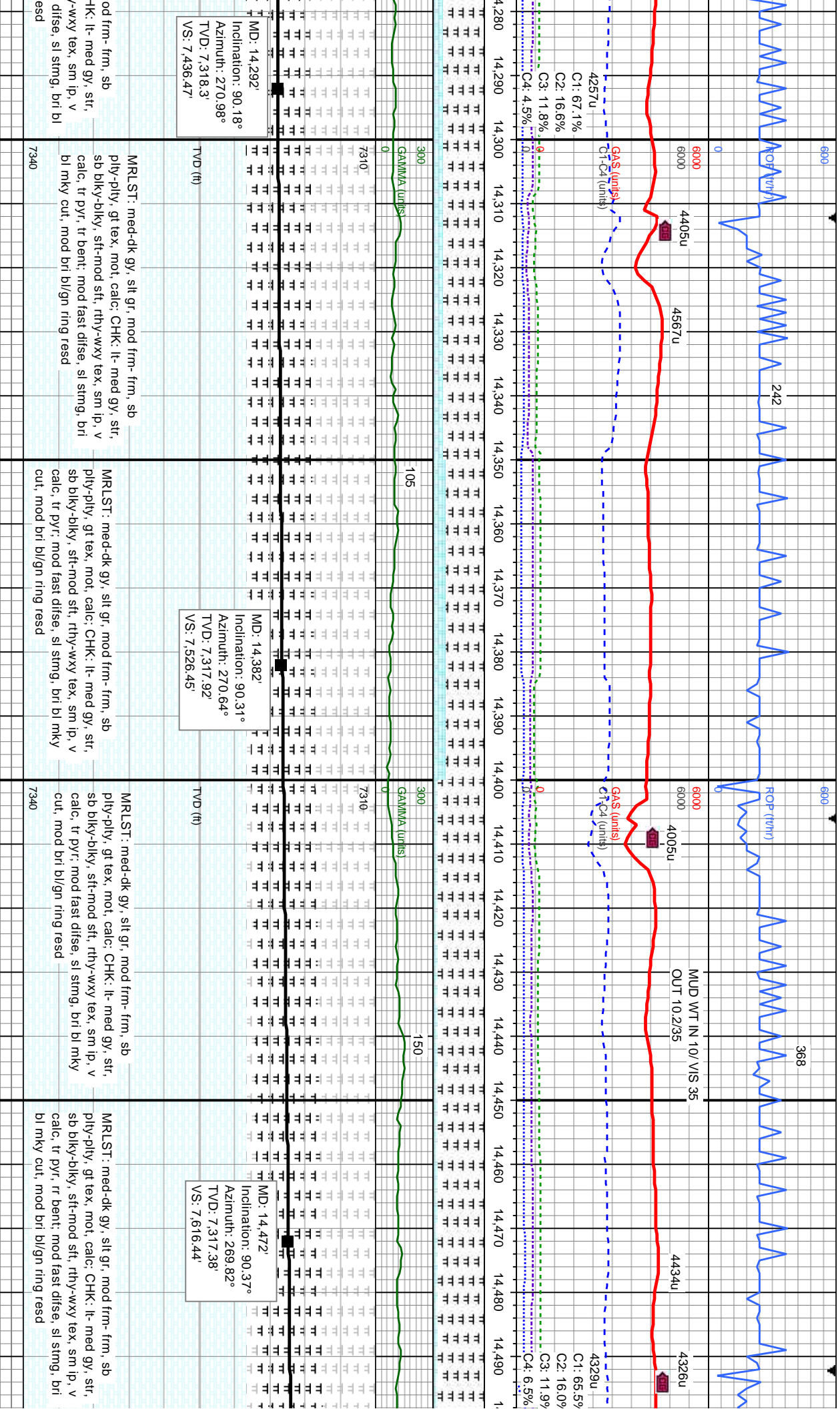






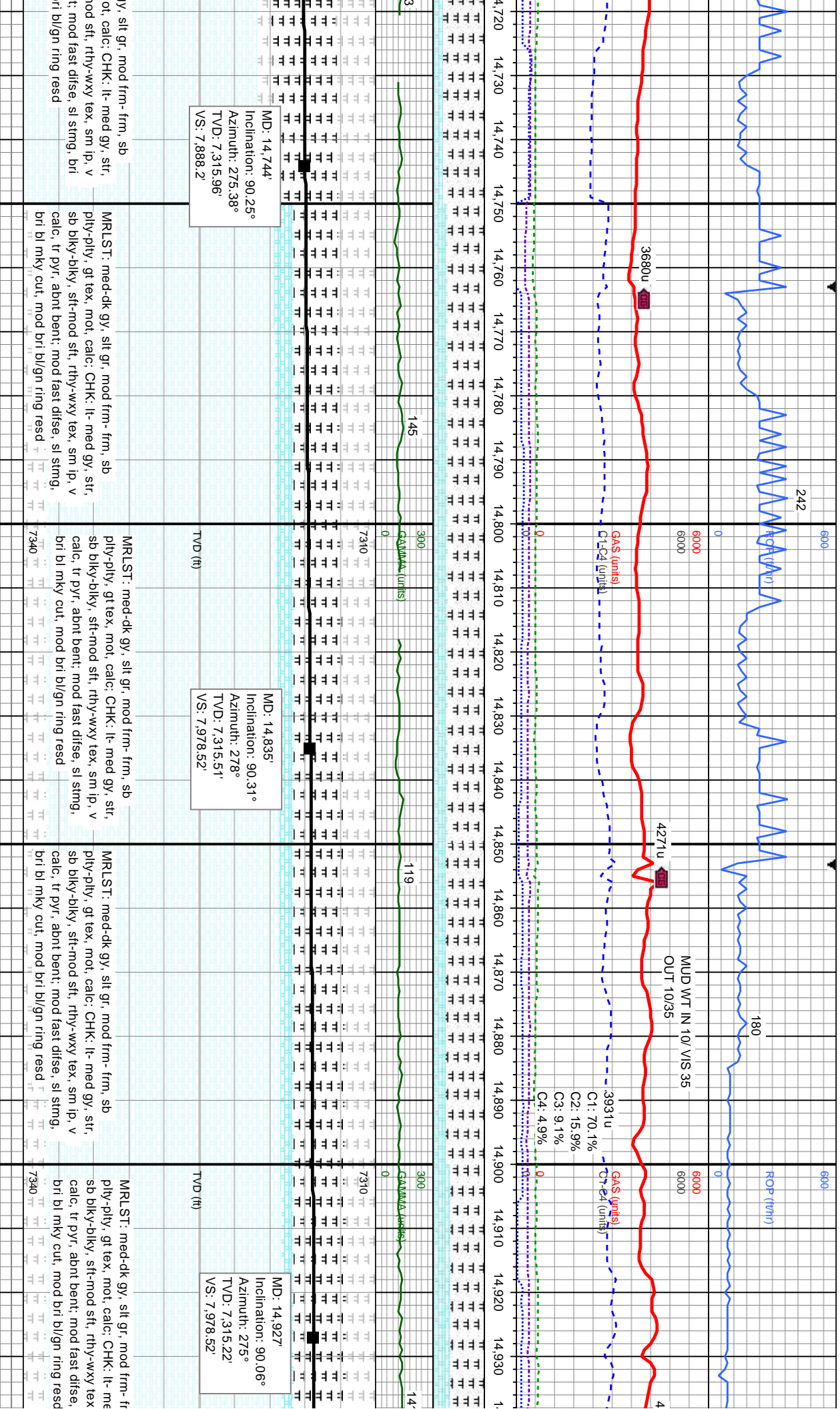




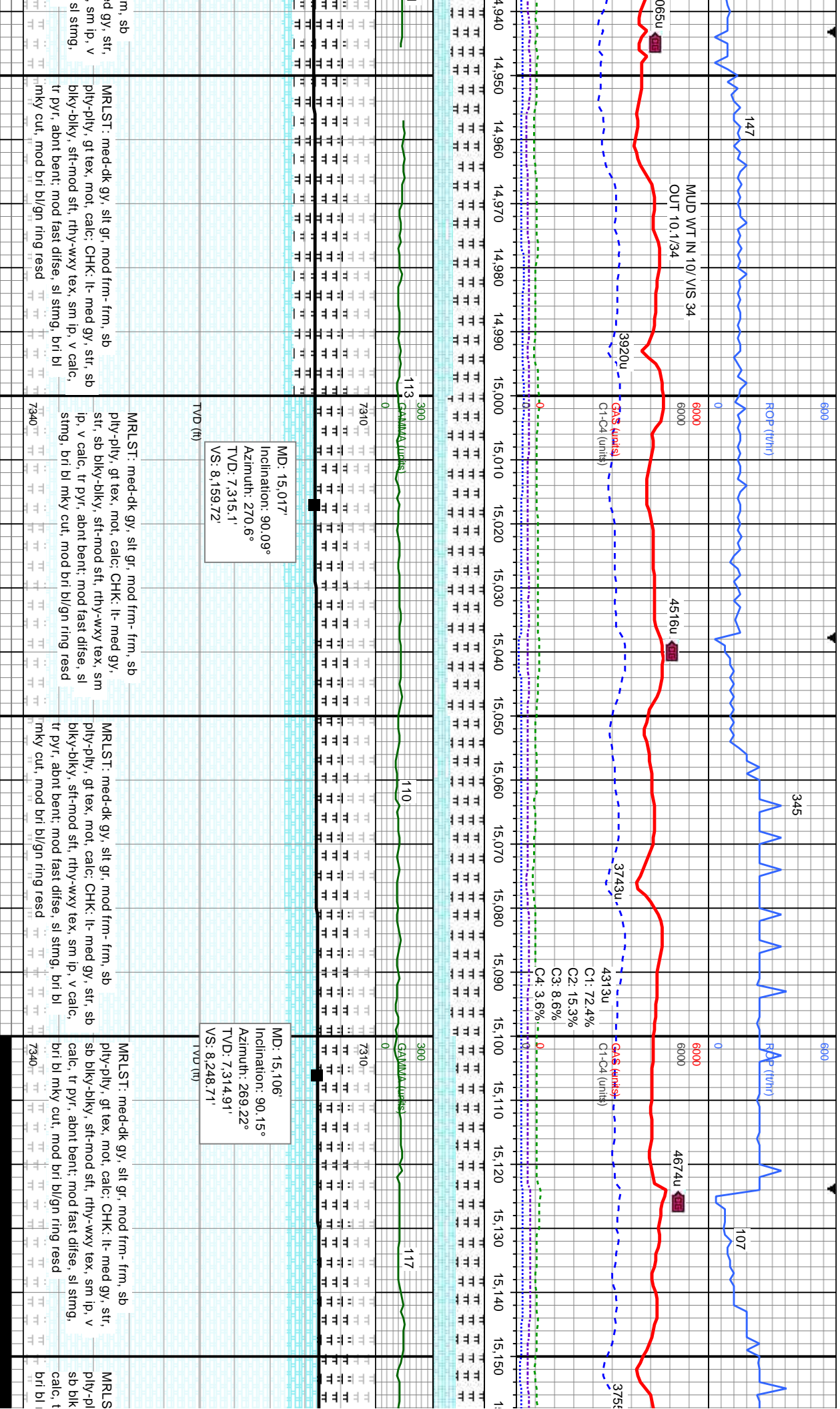






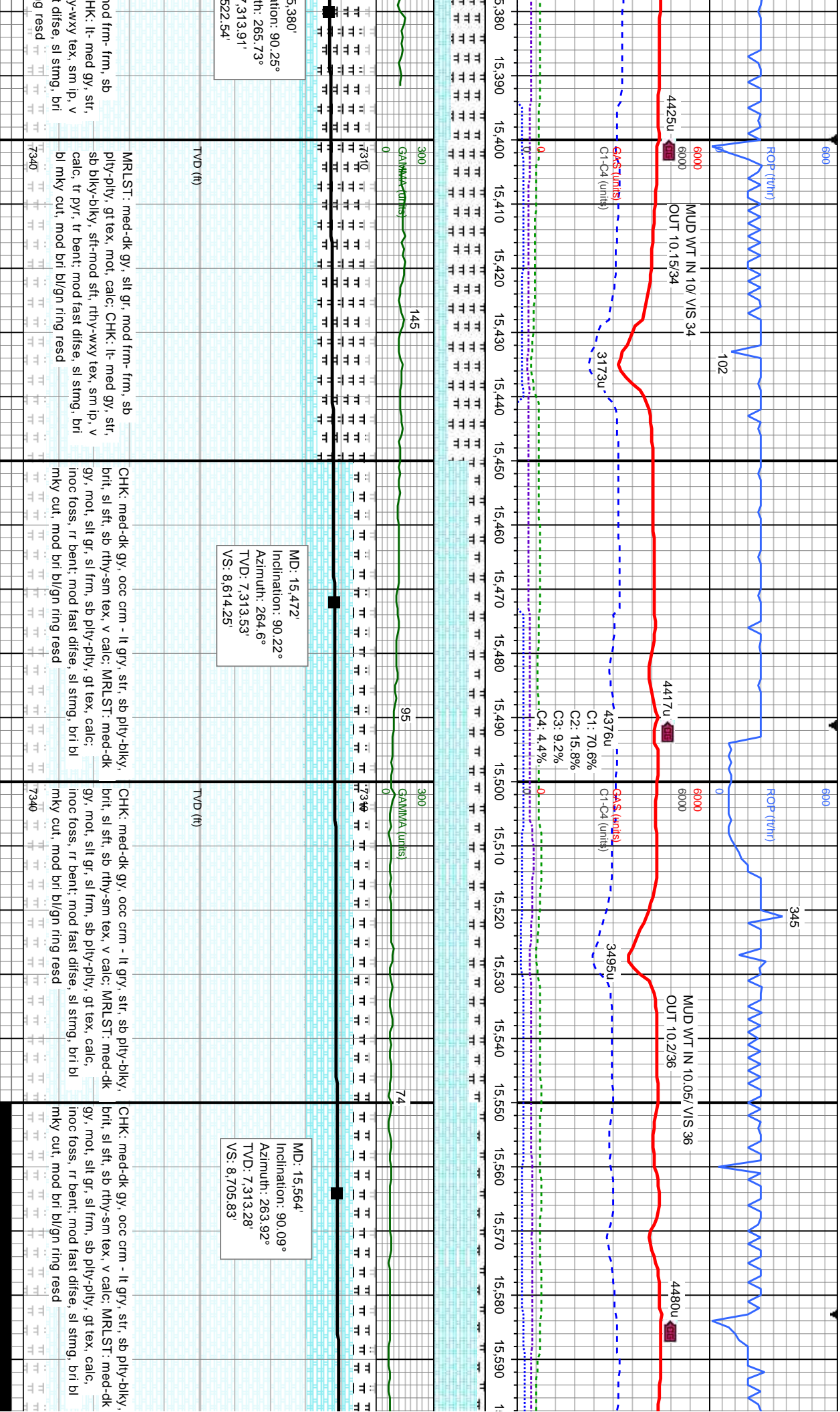










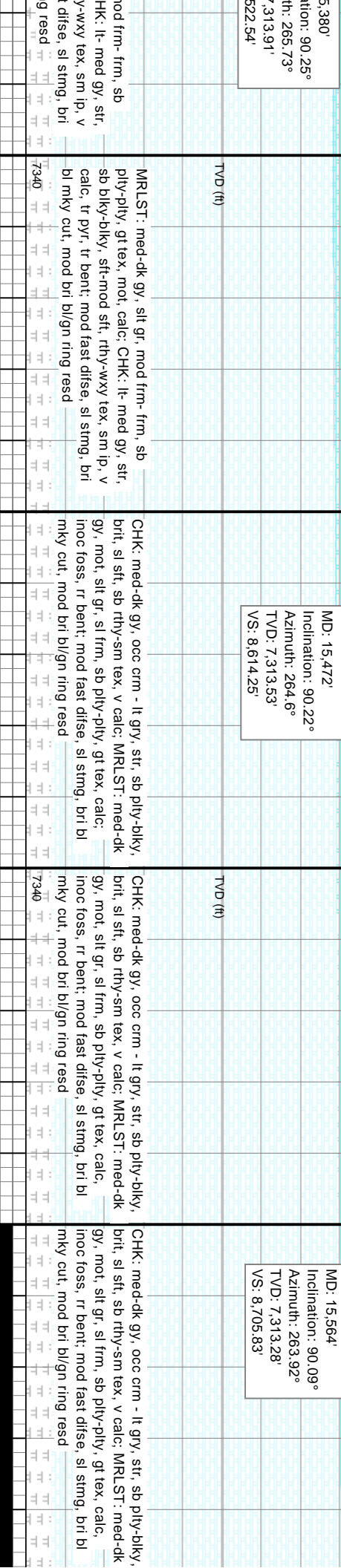


MRSLT: med-dk gy, slt gr, mod frm-frm, sb  
ply-pty, gt tex, mot, calc; CHK: lt- med gy, str,  
sb blk-pty, sft-mod sft, rhy-wxy tex, sm ip, v  
calc, tr pyr, tr bent; mod fast difse, sl stmg, bri  
bl mky cut, mod bri bl/gn ring resd

CHK: med-dk gy, occ crm - lt gry, str, sb ply-blky,  
brit, sl sft, sb rhy-sm tex, v calc; MRSLT: med-dk  
gy, mot, slt gr, sl frm, sb ply-pty, gt tex, calc;  
inoc foss, rr bent; mod fast difse, sl stmg, bri bl  
mky cut, mod bri bl/gn ring resd

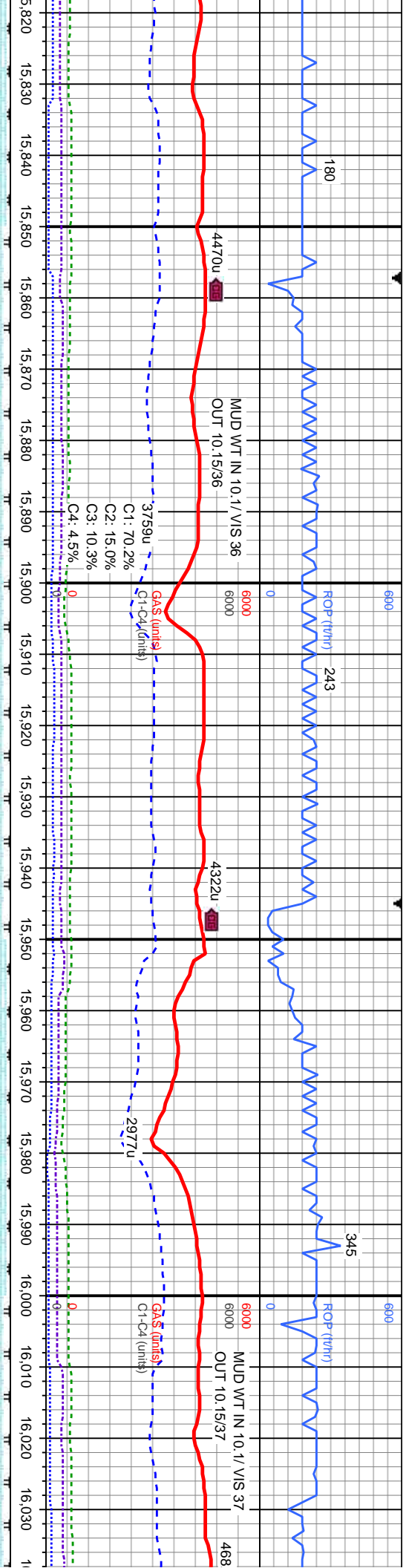
CHK: med-dk gy, occ crm - lt gry, str, sb ply-blky,  
brit, sl sft, sb rhy-sm tex, v calc; MRSLT: med-dk  
gy, mot, slt gr, sl frm, sb ply-pty, gt tex, calc;  
inoc foss, rr bent; mod fast difse, sl stmg, bri bl  
mky cut, mod bri bl/gn ring resd

CHK: med-dk gy, occ crm - lt gry, str, sb ply-blky,  
brit, sl sft, sb rhy-sm tex, v calc; MRSLT: med-dk  
gy, mot, slt gr, sl frm, sb ply-pty, gt tex, calc;  
inoc foss, rr bent; mod fast difse, sl stmg, bri bl  
mky cut, mod bri bl/gn ring resd



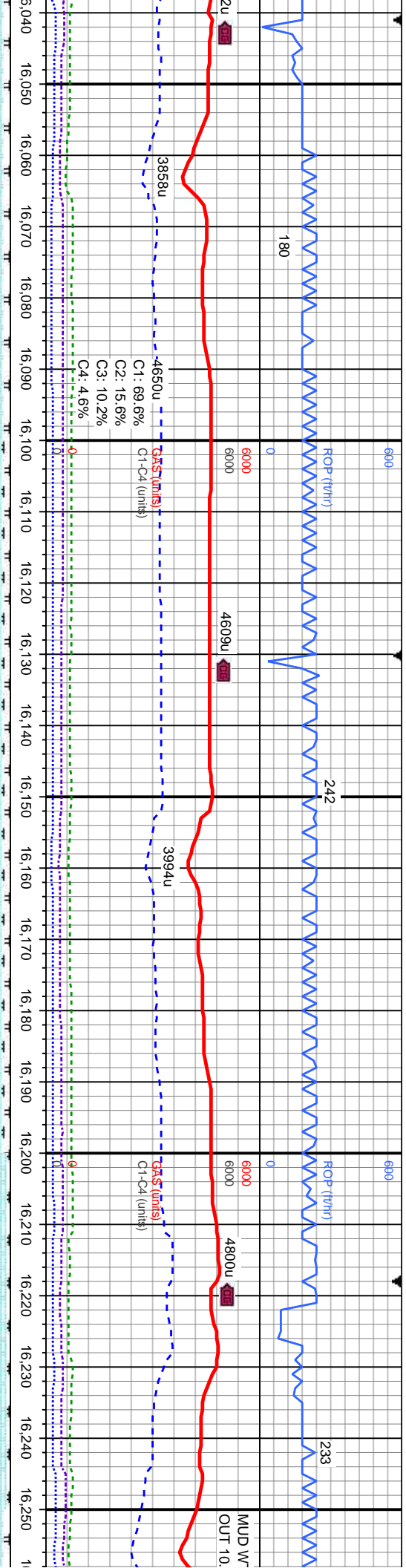




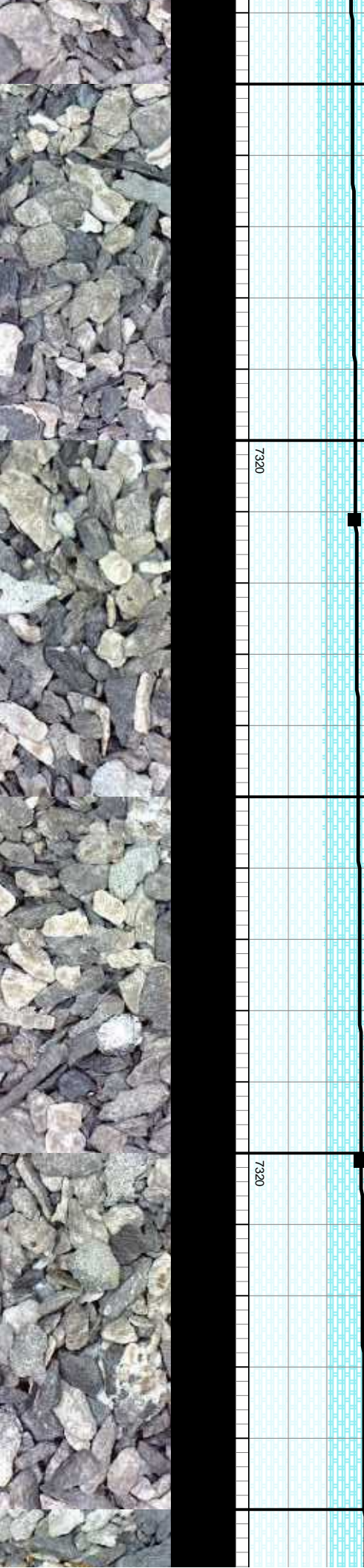


66		85		73		95	
occ crm - lt gry, str, sb sft, sb rthy-sm tex, v calc; gy, mot, slt gr, sl frm, sb calc, inoc foss, rr bent; mod cut, mod bri		CHK: med-dk gy, occ crm - lt gry, str, sb ply-biky, brit, sl sft, sb rthy-sm tex, v calc; MRLST: med-dk gy, mot, slt gr, sl frm, sb ply-pty, gt tex, calc, inoc foss, rr bent; mod fast dise, sl sting, bri bl mky cut, mod bri bl/gn ring resd		7290 CHK: lt-med gy, crm, str, sb ply-biky, brit, sl sft, sb rthy-sm tex, v calc; MRLST: med-dk gy, mot, slt gr, sl frm, sb ply-pty, gt tex, calc, inoc foss, tr bent; mod fast dise, sl sting, bri bl mky cut, mod bri bl/gn ring resd		7290 CHK: lt-med gy, crm, str, sb ply-biky, brit, sl sft, sb rthy-sm tex, v calc; MRLST: med-dk gy, mot, slt gr, sl frm, sb ply-pty, gt tex, calc, inoc foss, tr bent; mod fast dise, sl sting, bri bl mky cut, mod bri bl/gn ring resd	
MD: 15.839 Inclination: 90.06° Azimuth: 265.1° TVD: 7,312.62' VS: 8,979.6'		MD: 15.930' Inclination: 90.09° Azimuth: 265.21° TVD: 7,312.5' VS: 9,070.32'		MD: 16.021' Inclination: 90.31° Azimuth: 266.72° TVD: 7,312.18' VS: 9,161.12'			

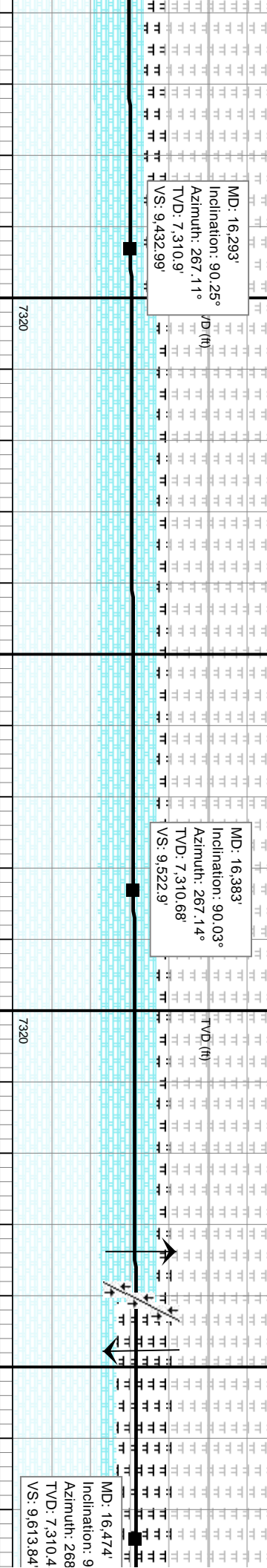
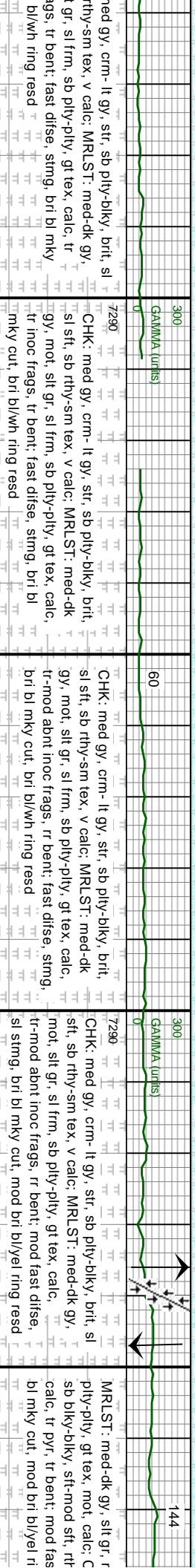
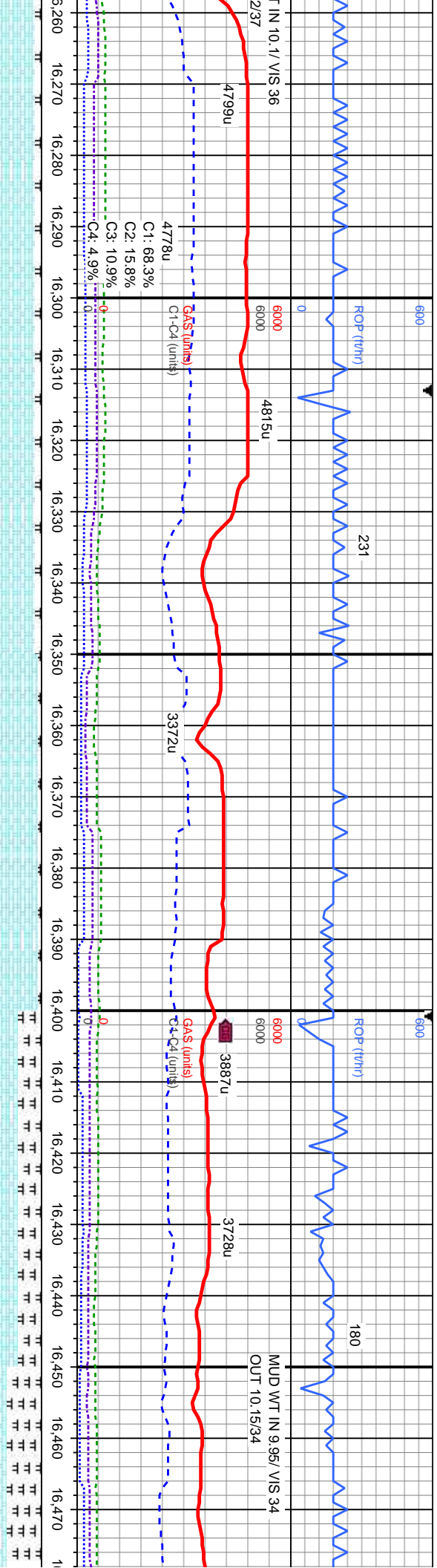


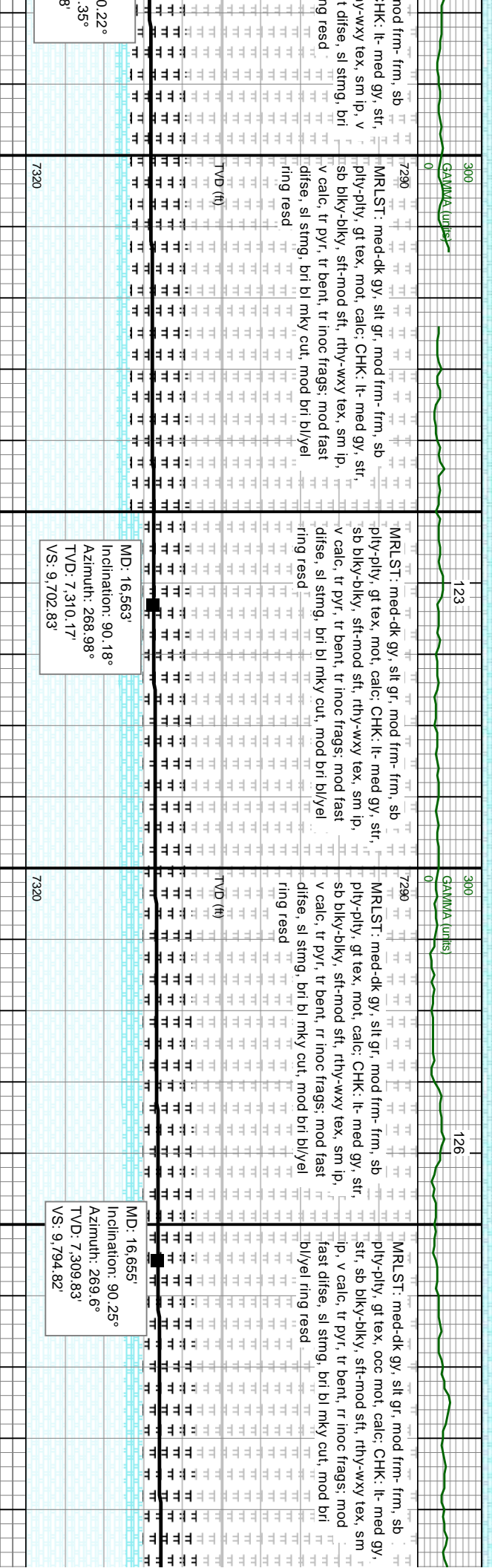
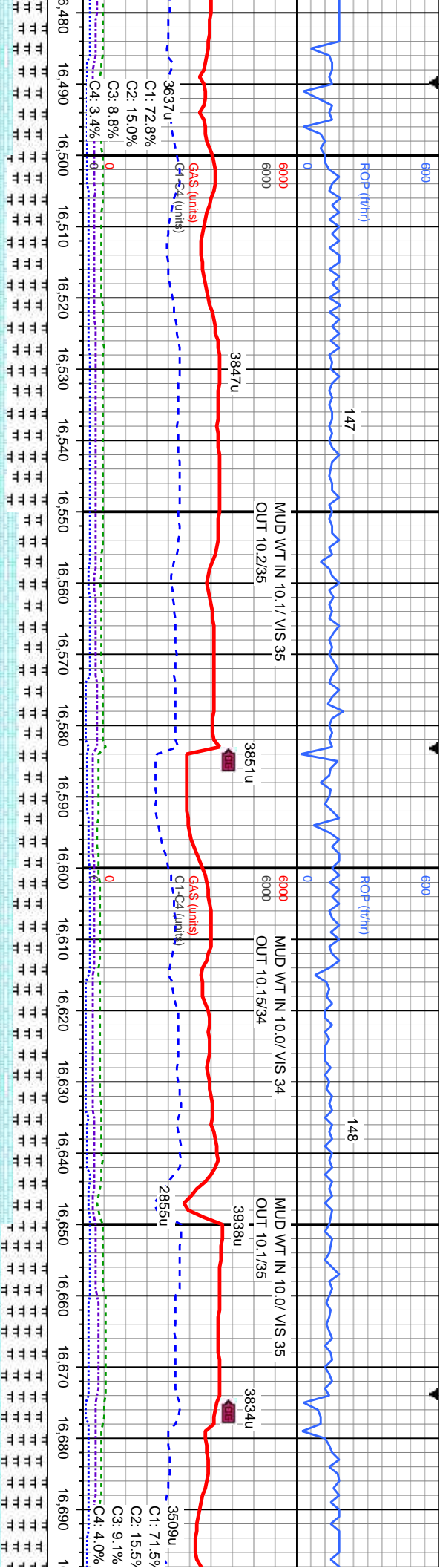


CHK: It-med gy, crm, str, sb ply-blky, brit, sl sft, sb rthy-sm tex, v calc; MRLST: med-dk gy, mot, slt gr, sl frm, sb ply-pty, gt tex, calc, inoc foss, tr bent; mod fast difse, sl sting, bri bl mky cut, mod bri bl/gn ring resd	CHK: It-med gy, crm, str, sb ply-blky, brit, sl sft, sb rthy-sm tex, v calc; MRLST: med-dk gy, mot, slt gr, sl frm, sb ply-pty, gt tex, calc, inoc foss, tr bent; mod fast difse, sl sting, bri bl mky cut, mod bri bl/gn ring resd	CHK: It-med gy, crm, str, sb ply-blky, brit, sl sft, sb rthy-sm tex, v calc; MRLST: med-dk gy, mot, slt gr, sl frm, sb ply-pty, gt tex, calc, inoc foss, tr bent; mod fast difse, sl sting, bri bl mky cut, mod bri bl/gn ring resd	CHK: It-med gy, crm, str, sb ply-blky, brit, sl sft, sb rthy-sm tex, v calc; MRLST: med-dk gy, mot, slt gr, sl frm, sb ply-pty, gt tex, calc, inoc foss, tr bent; mod fast difse, sl sting, bri bl mky cut, mod bri bl/gn ring resd
MD: 16.111° Inclination: 90.22° Azimuth: 269.13° TVD: 7,311.77' VS: 9,251.07'	MD: 16.201° Inclination: 90.31° Azimuth: 268.29° TVD: 7,311.35' VS: 9,341.05'		

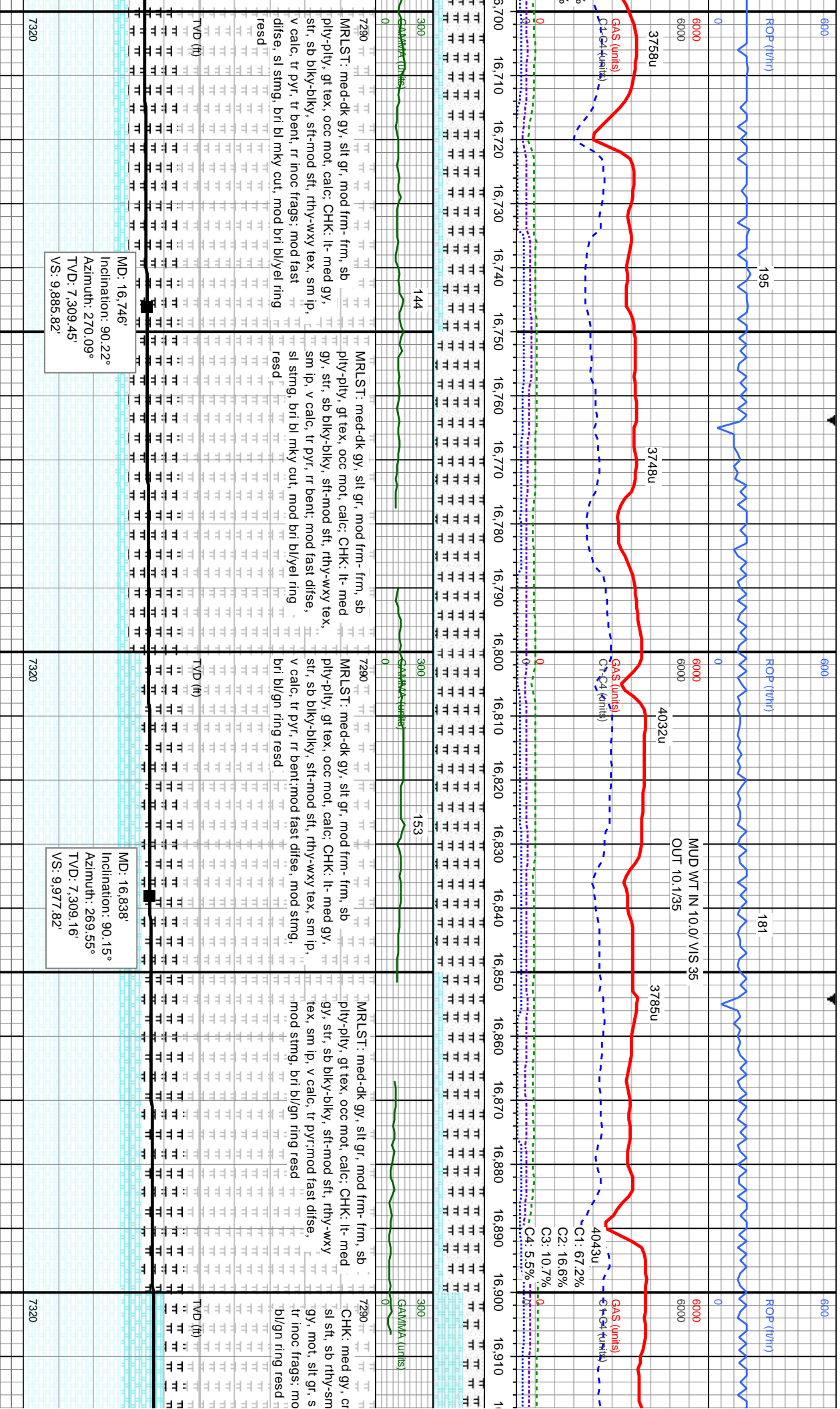






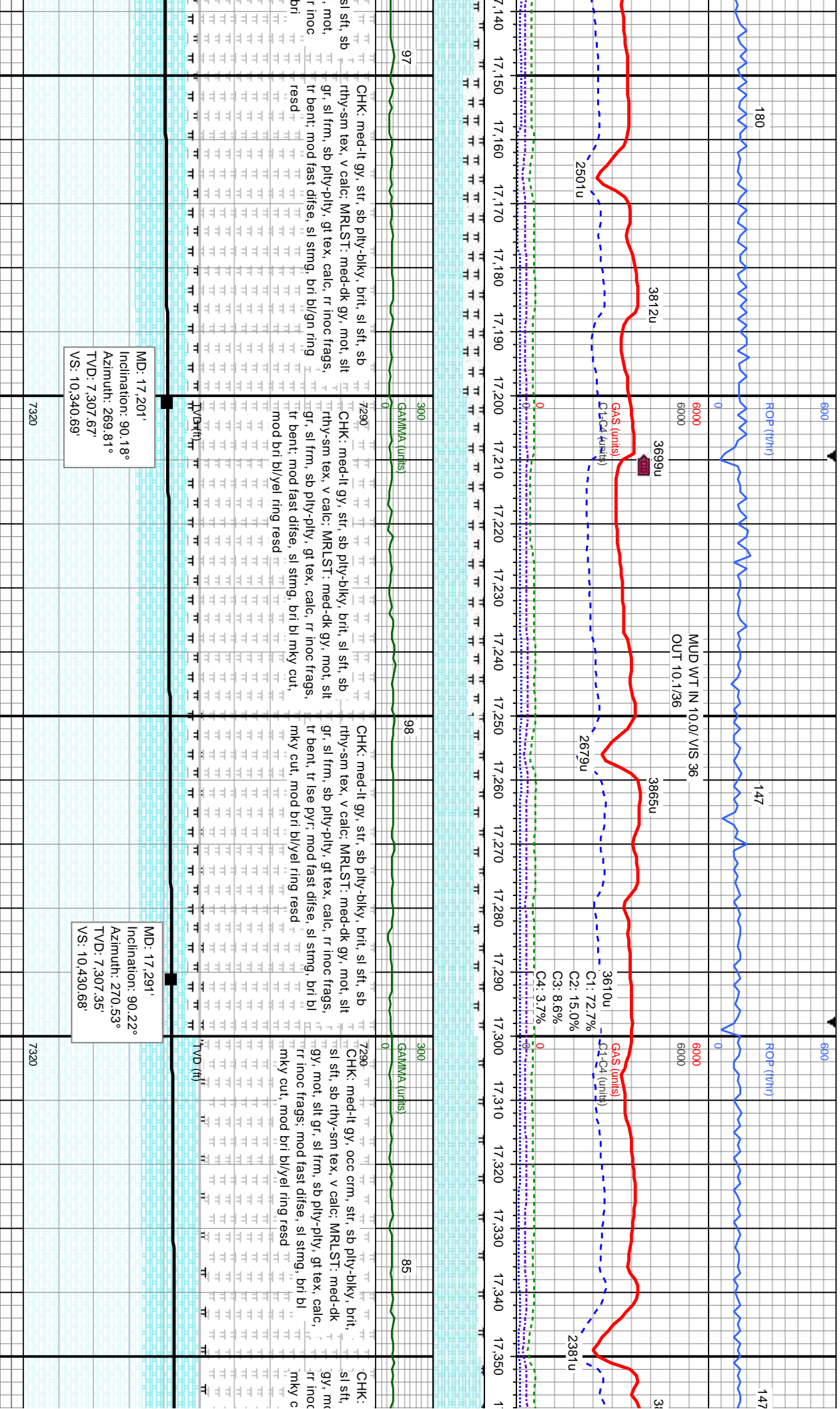






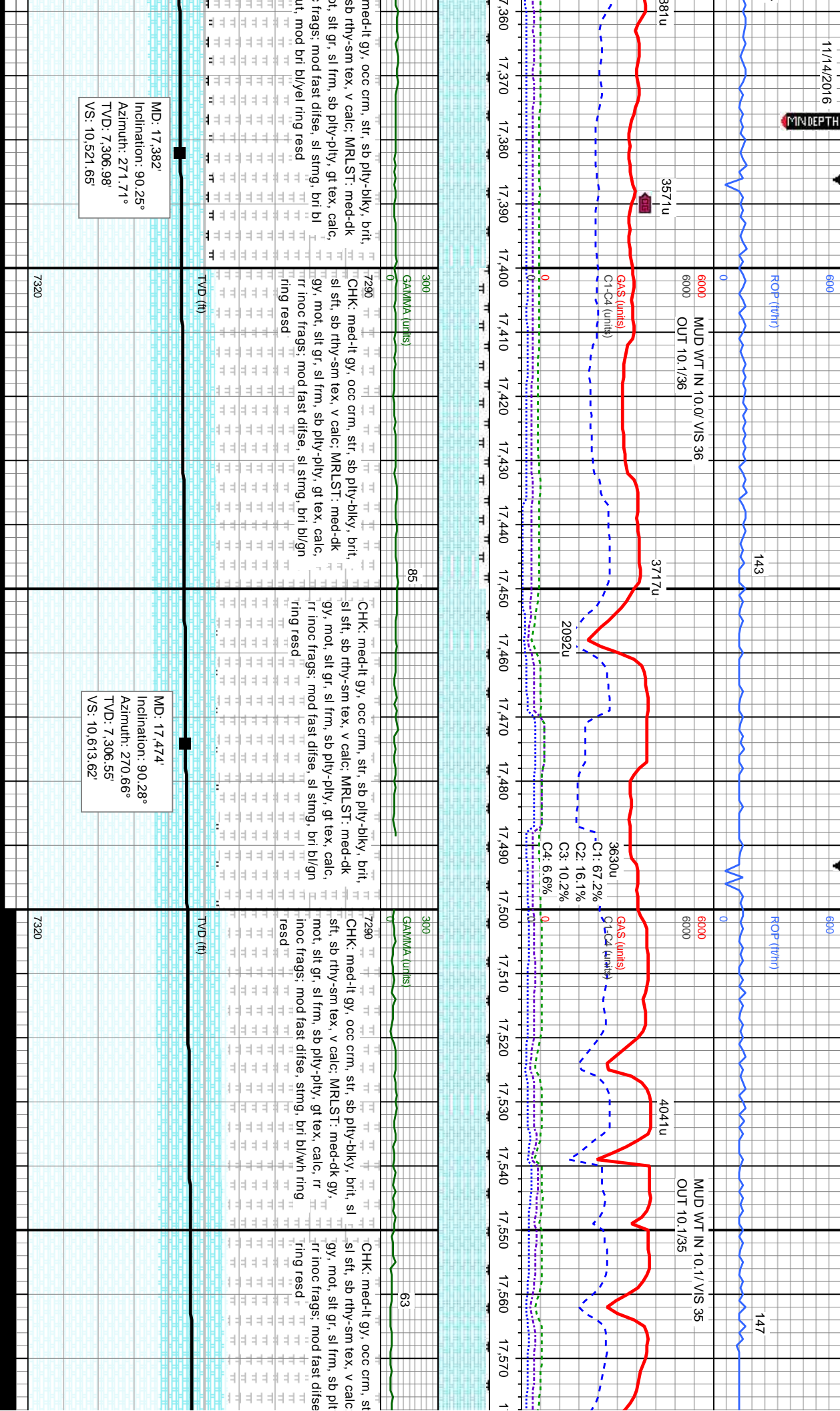






11/14/2016

MINDEPTH



MD: 17,382'  
Inclination: 90.25°  
Azimuth: 271.71°  
TVD: 7,306.98'  
VS: 10,521.65'

MD: 17,474'  
Inclination: 90.28°  
Azimuth: 270.66°  
TVD: 7,306.55'  
VS: 10,613.62'





