



Scale: 5" / 100'
Measured Depth Log

Well Name Reserve 3-65 35-34 1DH

Location SEC 35 T3S-R65W

State COLORADO

County ADAMS

Country USA

Rig Number Nabors B16

API Number 050011045600

AFE # WAY.CDR.9003

Geographic Region DJ BASIN

Field Niobrara

Spud Date 6/16/2019

Drilling Completed 7/3/2019

Surface Coordinates SURFACE LOCATION: 886' FNL 541' FEL SEC 35 T3S-R65W

SL Lat: 39° 45' 07.00" N (NAD83)

SL Long: 104° 37' 25.40" W (NAD83)

Bottom Hole Coordinates PROPOSED BHL: 1460ft FNL 323ft FWL SEC 34 T 3S-R65W

Ground Elevation 5506

K.B. Elevation 5531

Logged Interval 6000'

Formation Niobrara C Chalk

Type of Drilling Fluid OBM

Operator

Company Conoco Phillips

Address 600 N. Dairy Ashford Rd.
Houston, TX 77079-1175



Geologist

Name Dave Aldridge

Company Conoco Phillips Central Rockies Implementation

Address Dave.E.Aldridge@conocophillips.com
Office:(832)486-3983
600 N Dairy Ashford EC3 14-W134
Houston, TX 77079



Other

Columbine Logging Inc. Mud Logging Company

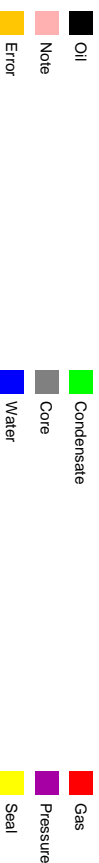
Geologists/Geosteers on Location: Todd Thiesse, Dustin Morgan

Gas Detection: Bloodhound chromatograph gas unit #316

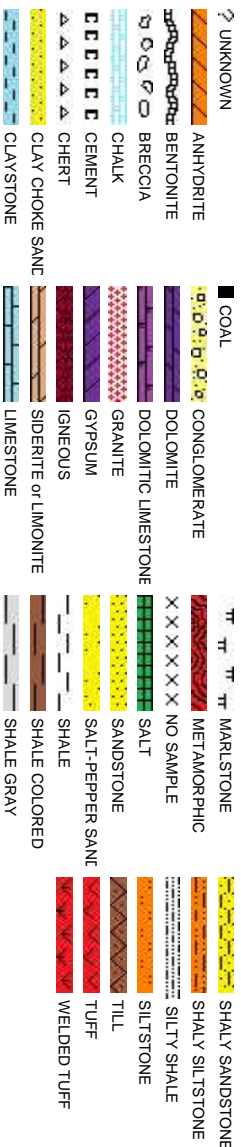
DD/MMWD: Baker Hughes

Columbine Computer 87A

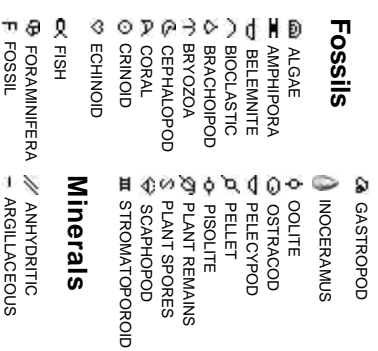
Color Coding



Rock Types



Fossils

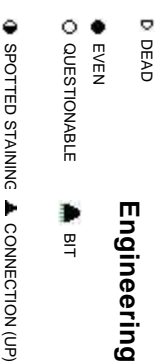


Minerals

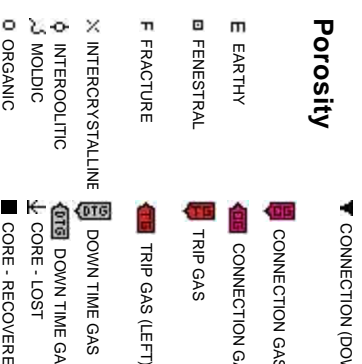
Oil Show



Engineering



Porosity







































Accessories

ARGILLITE GRAIN	➤ HEAVY MINERAL
BENTONITE	Ⓚ KAOLIN
BITUMENOUS SUBSTANCE	Ⓐ MARCASTE
BRECCIA FRAGMENTS	Ⓜ MARLSTONE
CALCAREOUS	Ⓜ MICACEOUS
CARBONACEOUS FLAKES	Ⓜ MINERAL CRYSTALS
CHTDKD	Ⓜ NODULES
CHTLT	Ⓜ PHOSPHATE PELLETS
COAL - THIN BEDS	Ⓜ PYRITE
DOLOMITIC	Ⓜ SALT CAST
FELDSPAR	Ⓜ SANDY
FERRUGINOUS PELLET	Ⓜ SIDERITE
FERRUGINOUS	Ⓜ SILICEOUS
GLAUCONITE	Ⓜ SILTY
GYPSIFEROUS	Ⓜ TUFACEOUS

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

	DST INTERVAL		WIRELINE TESTED - LEFT		E EARTH
	FAULT		WIRELINE TESTED - RT		FX FINELYXLN
	FORMATION TOP		DRILL STEM TEST		GS GRAINSTONE
	GAS SHOW		MN DEPTH		L LITHOGRAPHIC
	OIL SHOW				MX MICROXLN
	MN DEPTH UP				MS MUDSTONE
	MN DEPTH (DOWN)				
	ANGULAR				PS PACKSTONE
	NORMAL FAULT		R ROUNDED		WS WACKESTONE
	OVERTURNED STRATA		S SUBANG		
	REVERSE FAULT		S SUBRAND		
	CASING				
	SIDEWALL CORE (LEFT)				
	SIDEWALL CORE (RIGHT)				
	SLIDE		B BOUNDSTONE		P POOR
	SURVEY		C CHALKY		W WELL
			CX CRYPTOXLN		

COLUMBINE LOGGING

Bit Data
Bit #: 2
Type: HCC AT605F
Size: 8.5
Depth In: 2117'
Depth Out: '
Jets: 5x14
S/N: 5294642

ROP (ft/hr)
Columbine Logging Inc. Rigged Up 2 man
logging 6/19/2019 Chromatograph Gas Unit
#0316, began logging from 6000' MD at
10:45 AM, MDT on 6/29/2019.

Gamma Data Survey Data and ROP
provided by Baker Hughes.

Gas Data From Bloodhound Unit #0316,
data imported via Rig Watch and Gaschart

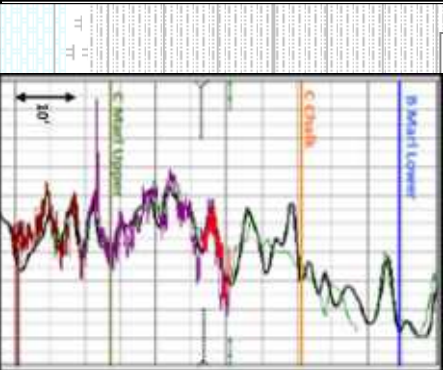
Total Gas & Chromatograph

- GAS
- C1
- C2
- C3
- C4

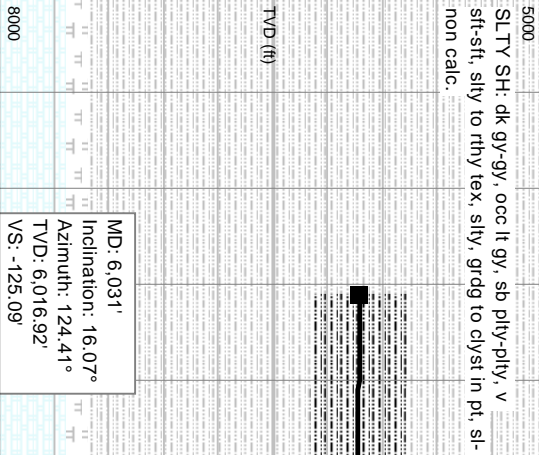
Depth Labels

% Lith

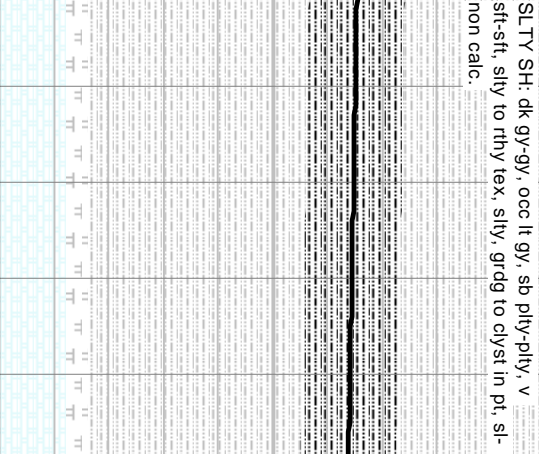
Well Bore
TVD



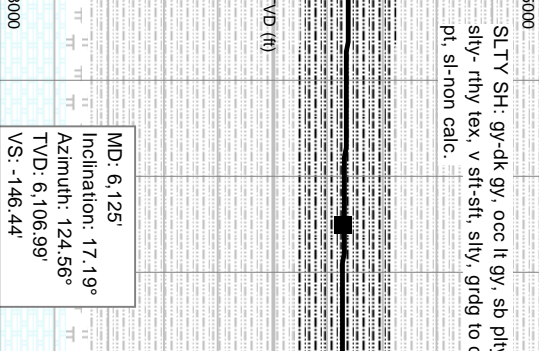
Target Formation/Member:
Niobrara C Chalk



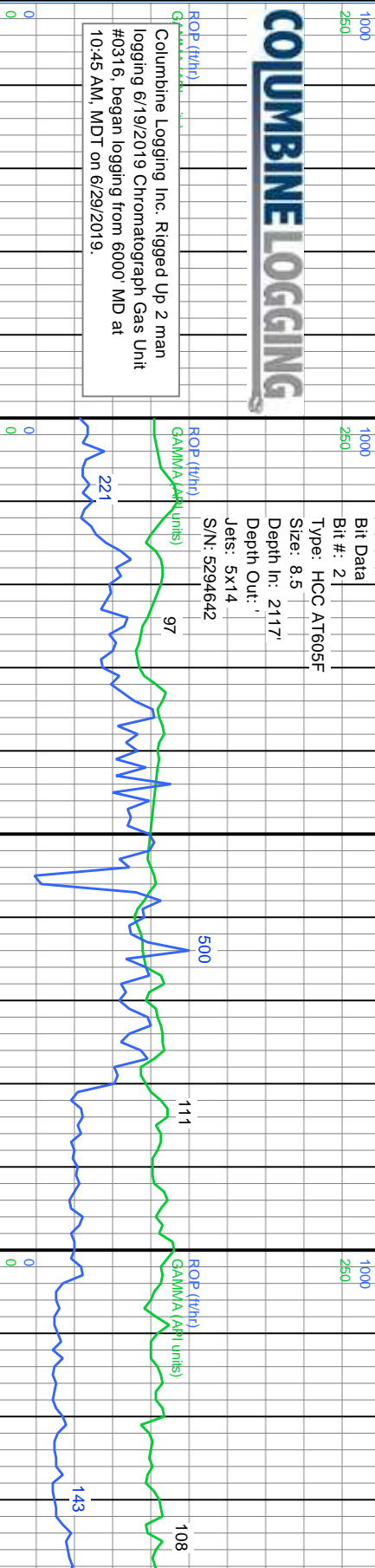
5000
SLTY SH: dk gy-gy, occ lt gy, sb pty-pty, v
sft-sft, silty to rthy tex, silty, grdg to clyst in pt, sl-
non calc.



5000
SLTY SH: dk gy-gy, occ lt gy, sb pty-pty, v
sft-sft, silty to rthy tex, silty, grdg to clyst in pt, sl-
non calc.



5000
SLTY SH: gy-dk gy, occ lt gy, sb pty-pty, v
sft-sft, rthy tex, v sft-sft, silty, grdg to clyst in pt, sl-
non calc.

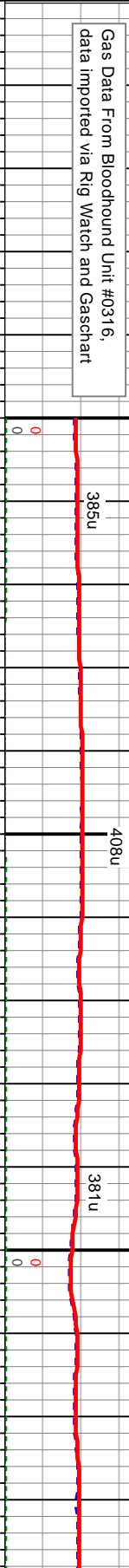


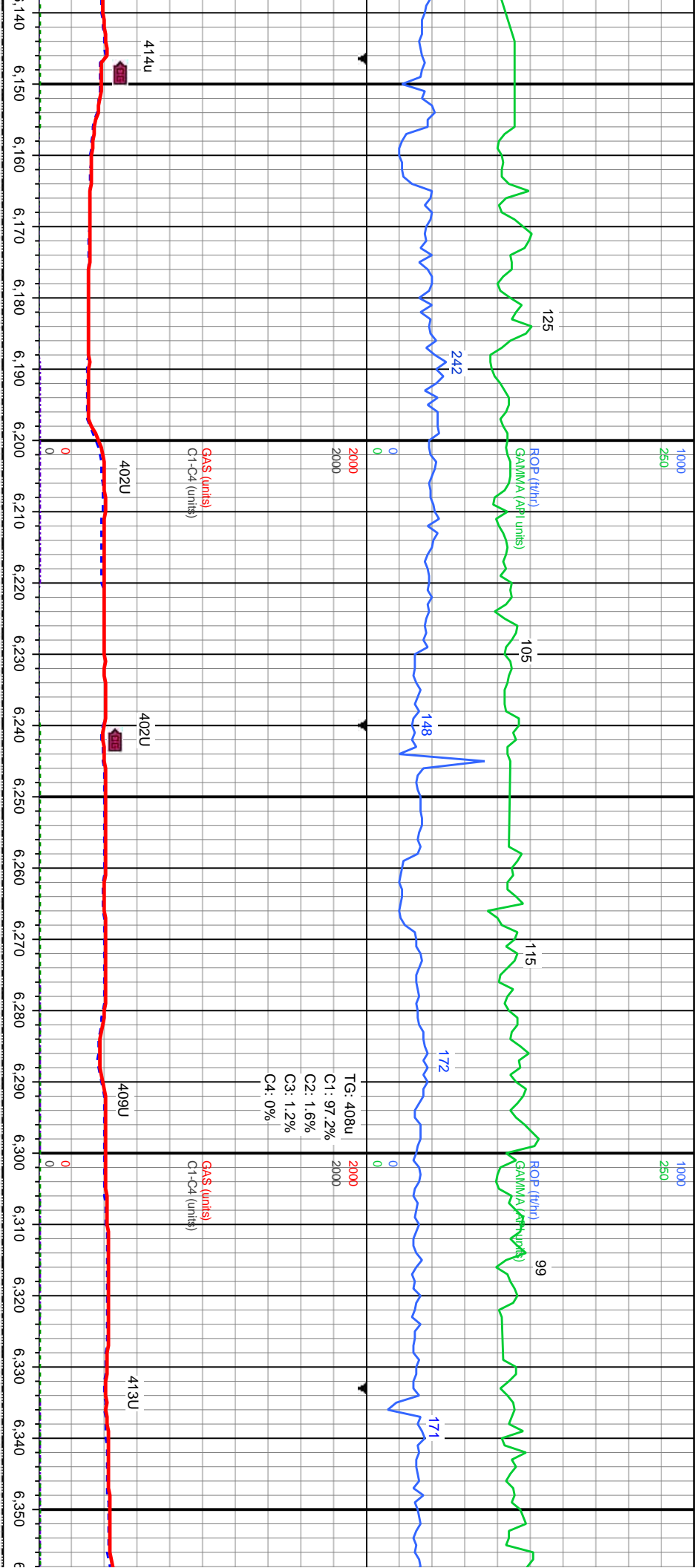
MUD WT IN: 9.3 V/S: 53
MUD WT OUT: 9.3 V/S:
ROP: 220 ft/hr
RPM: 90
SPP: 2664 PSI
STRK 1: 103 SPM
STRK 2: 103 SPM
WOB: 0 kips

TG: 352u
C1: 97.7%
C2: 1.4%
C3: 0.9%
C4: 0%

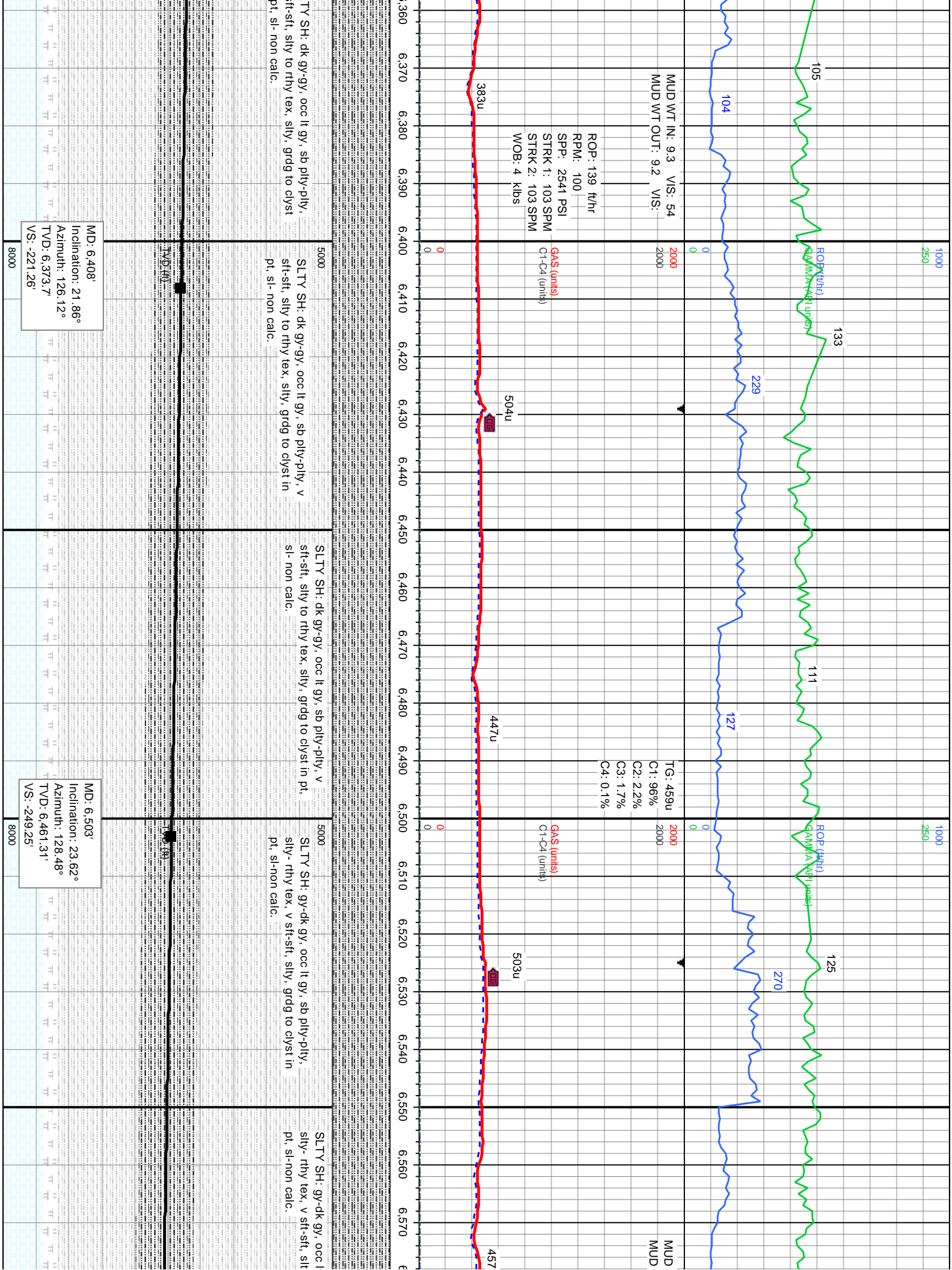
GAS (units)
C1-C4 (units)

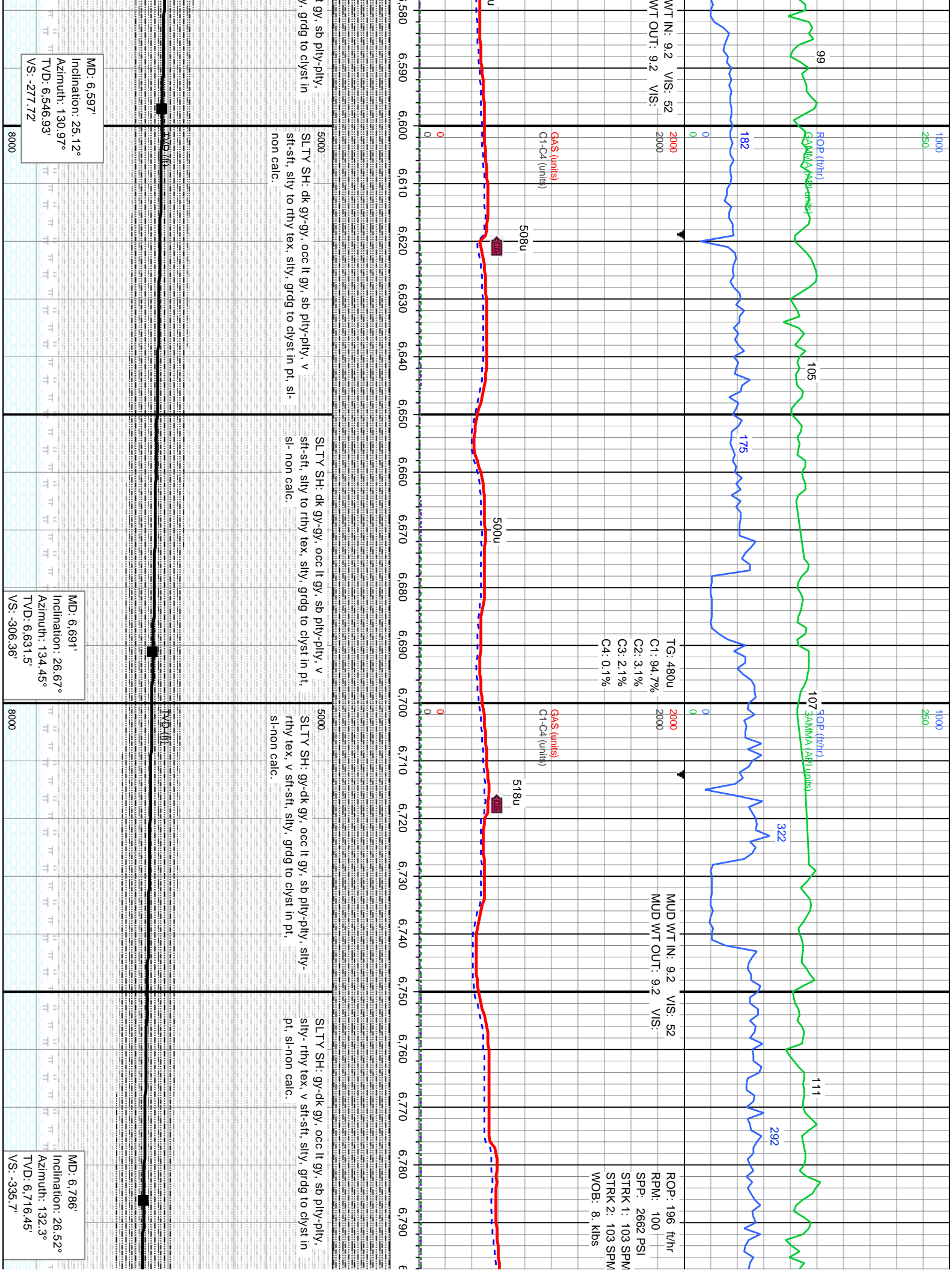
GAS (units)
C1-C4 (units)





SLTY SH: gy-dk gy, occ lt gy, sb pty-pty, silty-rthy tex, v sft-sft, silty, grdg to clyst in pt, sl-non calc.		SLTY SH: gy-dk gy, occ lt gy, sb pty-pty, silty-rthy tex, v sft-sft, silty, grdg to clyst in pt, sl-non calc. wi BENT strg.		SLTY SH: gy-dk gy, occ lt gy, sb pty-pty, silty-rthy tex, v sft-sft, silty, grdg to clyst in pt, sl-non calc. wi BENT strg.		SLTY SH: dk gy-gy, occ lt gy, sb pty-pty, v sft-sft, silty to rthy tex, silty, grdg to clyst in pt, sl-non calc.	
5000		5000		5000		5000	
TVD (ft)		TVD (ft)		TVD (ft)		TVD (ft)	
8000		8000		8000		8000	
MD: 6.219'		MD: 6.313'		MD: 6.313'		MD: 6.313'	
Inclination: 18.81°		Inclination: 20.13°		Inclination: 20.13°		Inclination: 20.13°	
Azimuth: 124.04°		Azimuth: 124.04°		Azimuth: 124.04°		Azimuth: 124.28°	
TVD: 6.196.38'		TVD: 6.196.38'		TVD: 6.196.38'		TVD: 6.285'	
VS: -169.55'		VS: -169.55'		VS: -169.55'		VS: -194.53'	





Pierre Mkr 300 at
7082 MD, 6982' TVD

1000
250

ROP (ft/hr)
GAMMA (API units)

126

181

131

127

ROP (ft/hr)
GAMMA (API units)

161

MUD WT IN: 9.2 V/S: 48
MUD WT OUT: 9.2 V/S: 49

TG: 678u

C1: 89.8%

C2: 5%

C3: 4.1%

C4: 1.1%

GAS (units)
C1-C4 (units)

635u

693u

698u

774u

GAS (units)
C1-C4 (units)

1,120u

ROP: 157 ft/hr
RPM: 100
SPP: 2636 PSI
STRK 1: 103 SPM
STRK 2: 103 SPM
WOB: 7 klbs

7,020 7,030 7,040 7,050 7,060 7,070 7,080 7,090 7,100 7,110 7,120 7,130 7,140 7,150 7,160 7,170 7,180 7,190 7,200 7,210 7,220 7,230 7,240

Y, occ lt gy, sb pty-pty, silty-
sily, grdg to clyst in pt, sl-non

SL.TY SH: gy-dk gy, occ lt gy, sb pty-pty, silty-
rthy tex, v sft-sft, sily, grdg to clyst in pt, sl-non
calc.

5000
SL.TY SH: gy-dk gy, occ lt gy, sb pty-pty, silty-
rthy tex, v sft-sft, sily, grdg to clyst in pt, sl-non
calc.

TVD (ft)

MD: 7,069'
Inclination: 21.15°
Azimuth: 148.13°
TVD: 6,969.95'
VS: -421.17'

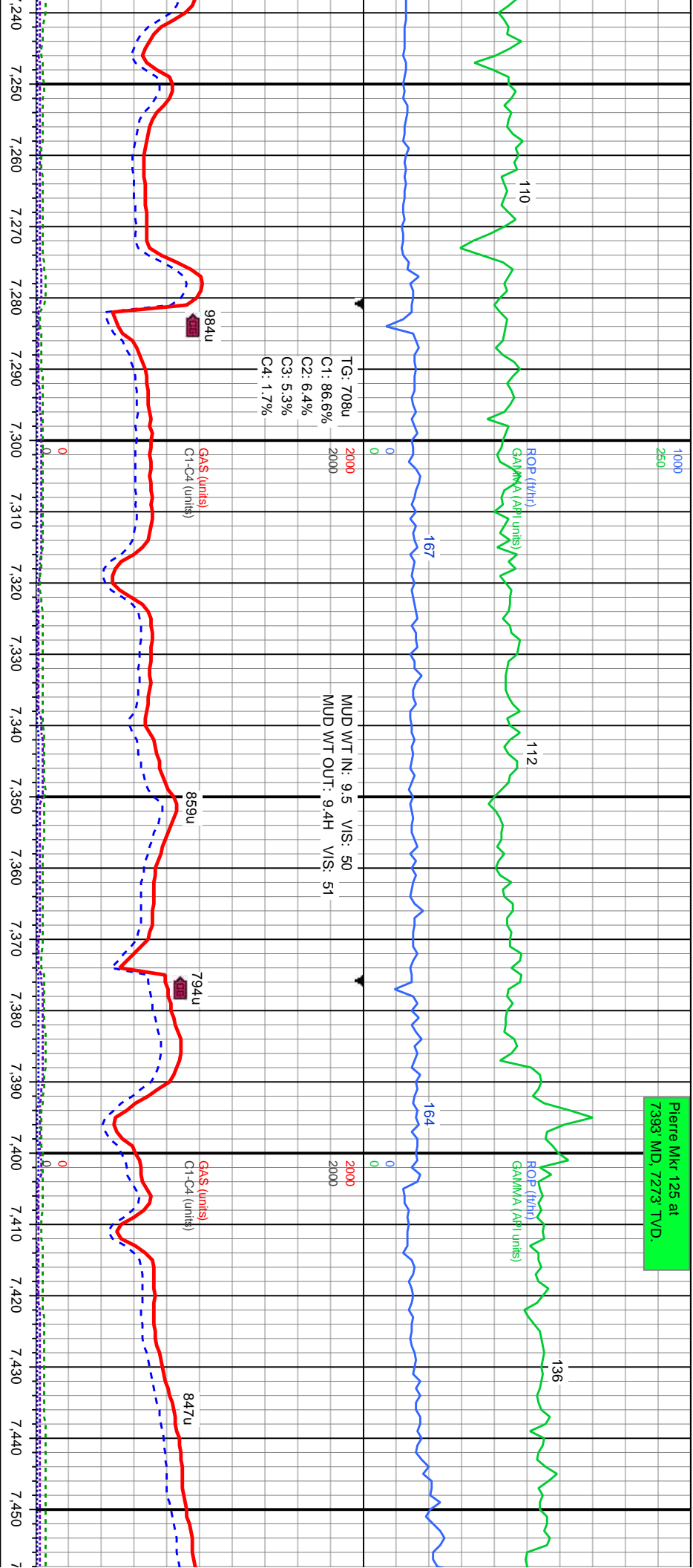
MD: 7,164'
Inclination: 18.28°
Azimuth: 176.2°
TVD: 7,059.57'
VS: -429.68'

5000
SL.TY SH: gy-dk gy, occ lt gy, sb pty-pty, silty-
rthy tex, v sft-sft, sily, grdg to clyst in pt, sl-non
calc.

TVD (ft)

MD: 7,164'
Inclination: 18.28°
Azimuth: 176.2°
TVD: 7,059.57'
VS: -429.68'

Pierre Mkr 125 at
7393' MD, 7273' TVD.

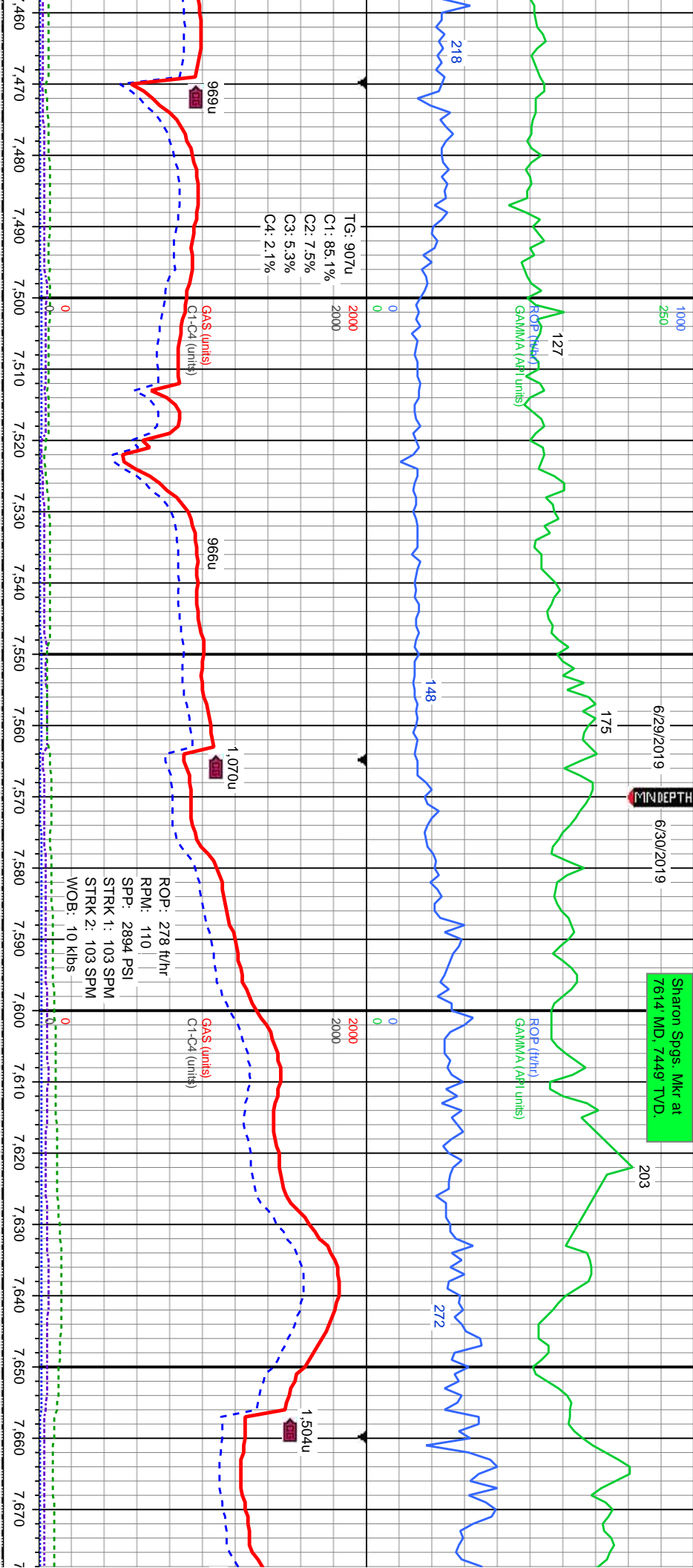


SL.TY SH: gy-dk gy, occ lt gy, sb pty-pty, silty-rthy tex, v sft-sft, silty, grdg to clyst in pt, sl-non calc.	5000	SL.TY SH: gy-dk gy, occ lt gy, sb pty-pty, silty-rthy tex, v sft-sft, silty, grdg to clyst in pt, sl-non calc.	5000	SL.TY SH: gy-dk gy, occ lt gy, sb pty-pty, silty-rthy tex, v sft-sft, silty, grdg to clyst in pt, sl-non calc.	5000	SL.TY SH: gy-dk gy, occ lt gy, sb pty-pty, silty-rthy tex, v sft-sft, silty, grdg to clyst in pt, sl-non calc.
MD: 7.256' Inclination: 18.47° Azimuth: 202.18° TVD: 7,148.93' VS: -423.54'	TVD (ft)	MD: 7.352' Inclination: 23.26° Azimuth: 221.97° TVD: 7,236.85' VS: -404.06'	TVD (ft)	MD: 7.446' Inclination: 32.21° Azimuth: 232.32° TVD: 7,320.01' VS: -370.26'		
8000		8000				

Sharon Sogs. Mkr at
7614' MD, 7449' TVD

6/29/2019
6/30/2019

MINDEPTH



HT: gy-dk gy, occ lt gy, sb pty-pty, silty-
rthy tex, v sft-sft, silty, grdg to clyst in pt, sl-non

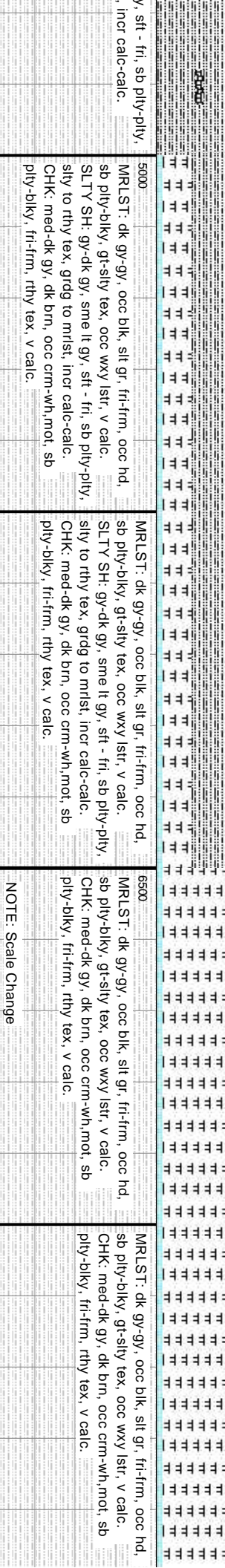
5000
SLTY SH: gy-dk gy, occ lt gy, sb pty-pty, silty-
rthy tex, v sft-sft, silty, grdg to clyst in pt, sl-non
calc.

MD: 7,541'
Inclination: 39.64°
Azimuth: 244.16°
TVD: 7,396.98'
VS: -321.39'

5000
SLTY SH: gy-dk gy, sme lt gy, sft - fri, sb pty-pty,
silty to rthy tex, grdg to mlst, incr calc-calc.
BENT string

MD: 7,635'
Inclination: 48.73°
Azimuth: 252.72°
TVD: 7,464.38'
VS: -259.34'

SLTY SH: gy-dk gy, sme lt g
silty to rthy tex, grdg to mlst
BENT string



MR.LST: dk gy-gy, occ blk, sit gr, fr-frm, occ nd, sb ply-bkly, gt-sily tex, occ wxy isfr, v calc.
SLTY SH: gy-dk gy, sme ll gy, sft - fr, sb ply-ply, sily to rthy tex, gld to mlst, incr calc-calc.
CHK: med-dk gy, dk brn, occ crm-wth, mot, sb ply-bkly, fr-frm, rthy tex, v calc.

6500. MR.LST: dk gy-gy, ooc blk, slt gr, fri-frm, ooc hrd, sb ply-biky, gt-sily tex, ooc wxy istr, v calc.
CHK: med-dk gy, dk brn, ooc crm-wh, mot, sb ply-biky, fri-frm, rthy tex, v calc.

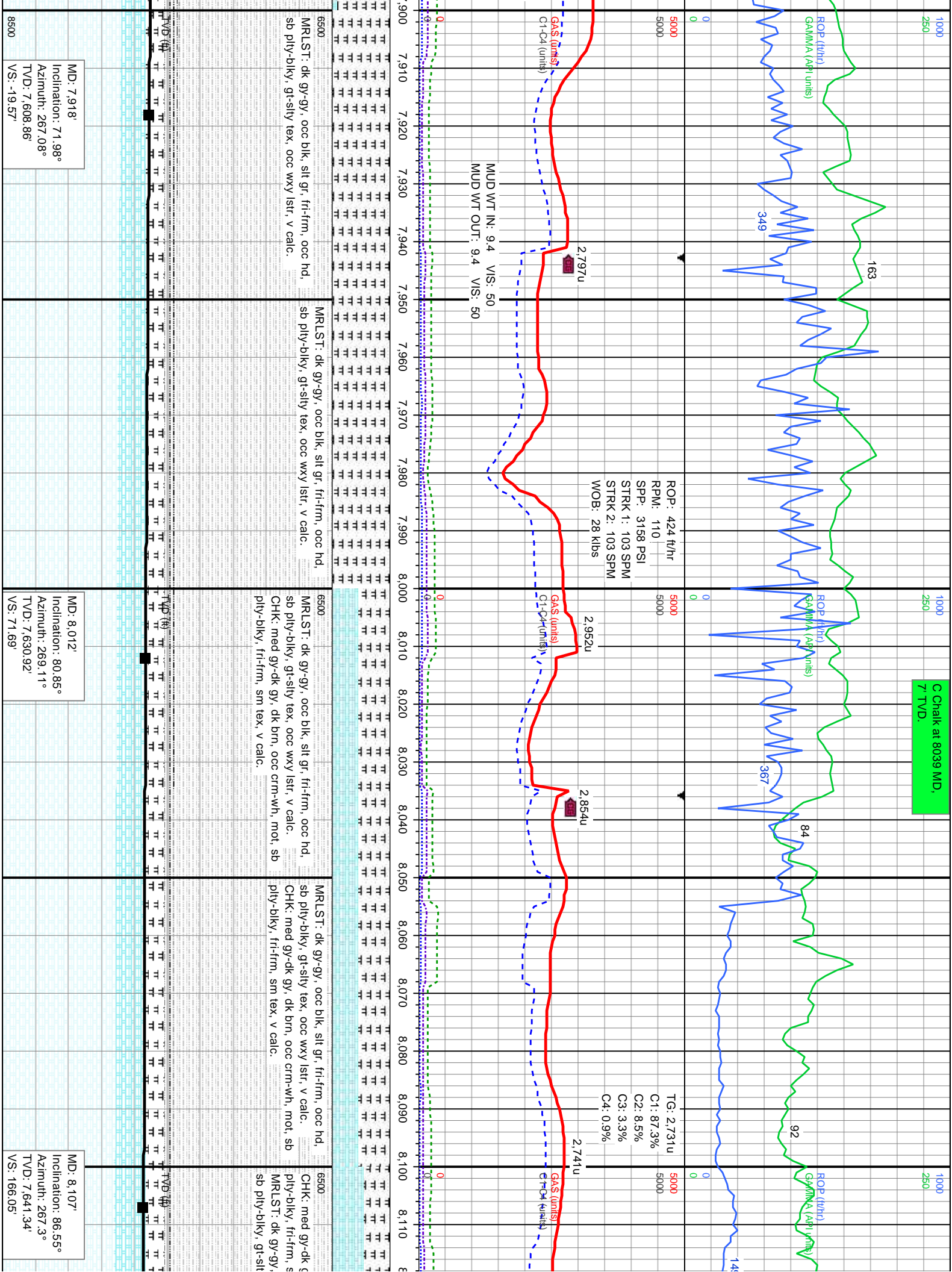
MR.LST: dk gy-gy, occ blk, slt gr, fri-firm, occ hd
sb ply-dlky, gt-sltly tex, occ wxy lstr, v calc.
CHK: med-dk gy, dk brn, occ crm-wh, mot, sb
ply-dlky, fri-firm, rthy tex, v calc.

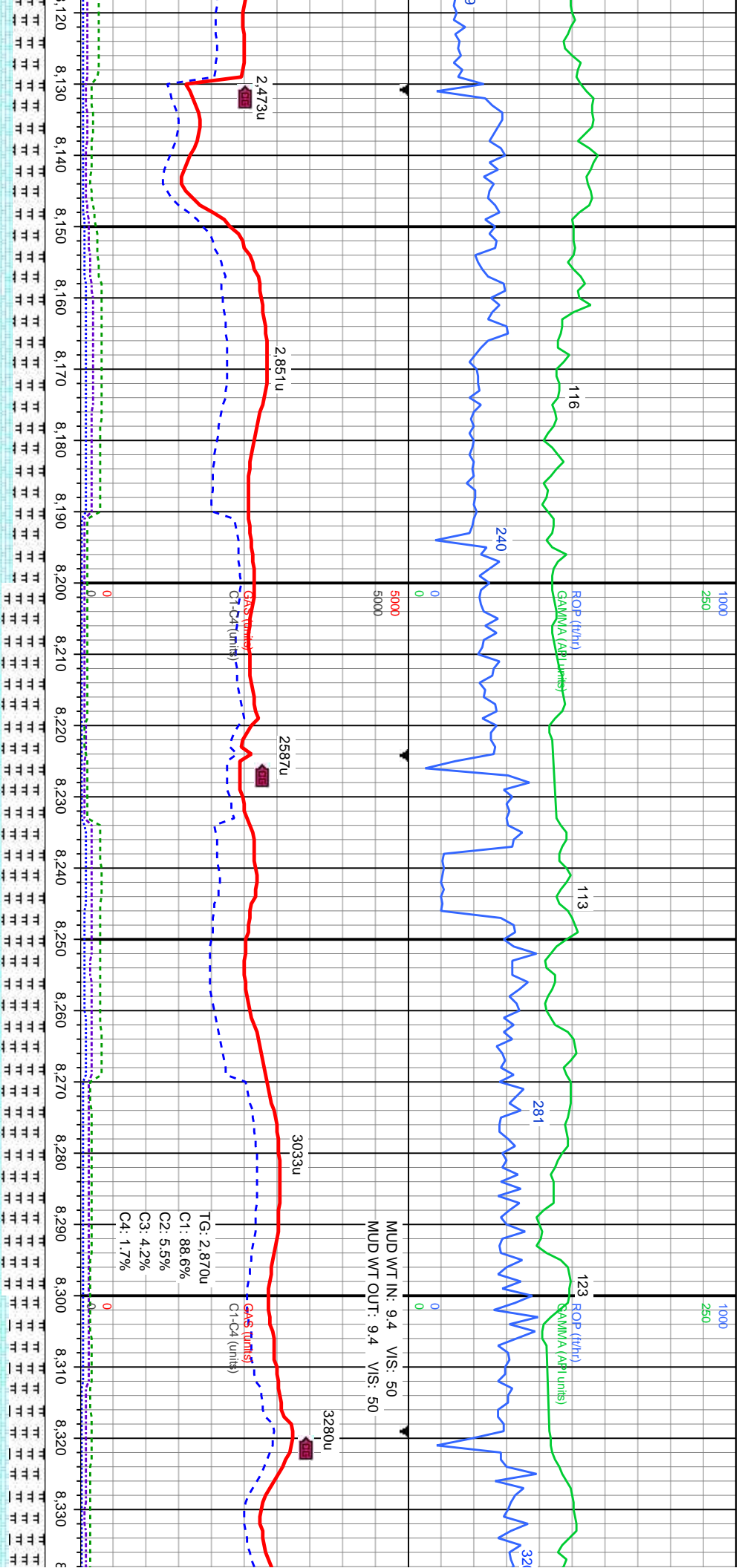
NOTE: Scale Change

NOTE: Scale Change

MD: 7,824'
Inclination: 61.93°
Azimuth: 264.82°
TVD: 7,572.1'
VS: -105.93'

C Chalk at 8039 MD,
7' TVD.





CHK: med gy-dk gy, dk brn, occ crm-wh, mot, sb
ply-biky, fri-frm, sm tex, v calc.
MRST: dk gy-gy, occ blk, sit gr, fri-frm, occ hd,
sb ply-biky, gt-sily tex, occ wxy lst, v calc.
mot, sb ply-biky, fri-frm, rthy tex, v calc.

CHK: med-dk gy, dk brn, occ crm-wh calc bnd,
mot, sb ply-biky, fri-frm, rthy tex, v calc.

CHK: med-dk gy, dk brn, occ crm-wh calc bnd,
mot, sb ply-biky, fri-frm, rthy tex, v calc.

CHK: med-dk gy, dk brn, occ crm-wh calc bnd,
mot, sb ply-biky, fri-frm, rthy tex, v calc.

CHK: med-dk gy, dk brn, occ crm-wh calc bnd,
mot, sb ply-biky, fri-frm, rthy tex, v calc.

CHK: med-dk gy, dk brn, occ crm-wh calc bnd,
mot, sb ply-biky, fri-frm, rthy tex, v calc.

CHK: med-dk gy, dk brn, occ crm-wh calc bnd,
mot, sb ply-biky, fri-frm, rthy tex, v calc.

CHK: med-dk gy, dk brn, occ crm-wh calc bnd,
mot, sb ply-biky, fri-frm, rthy tex, v calc.

CHK: med-dk gy, dk brn, occ crm-wh calc bnd,
mot, sb ply-biky, fri-frm, rthy tex, v calc.

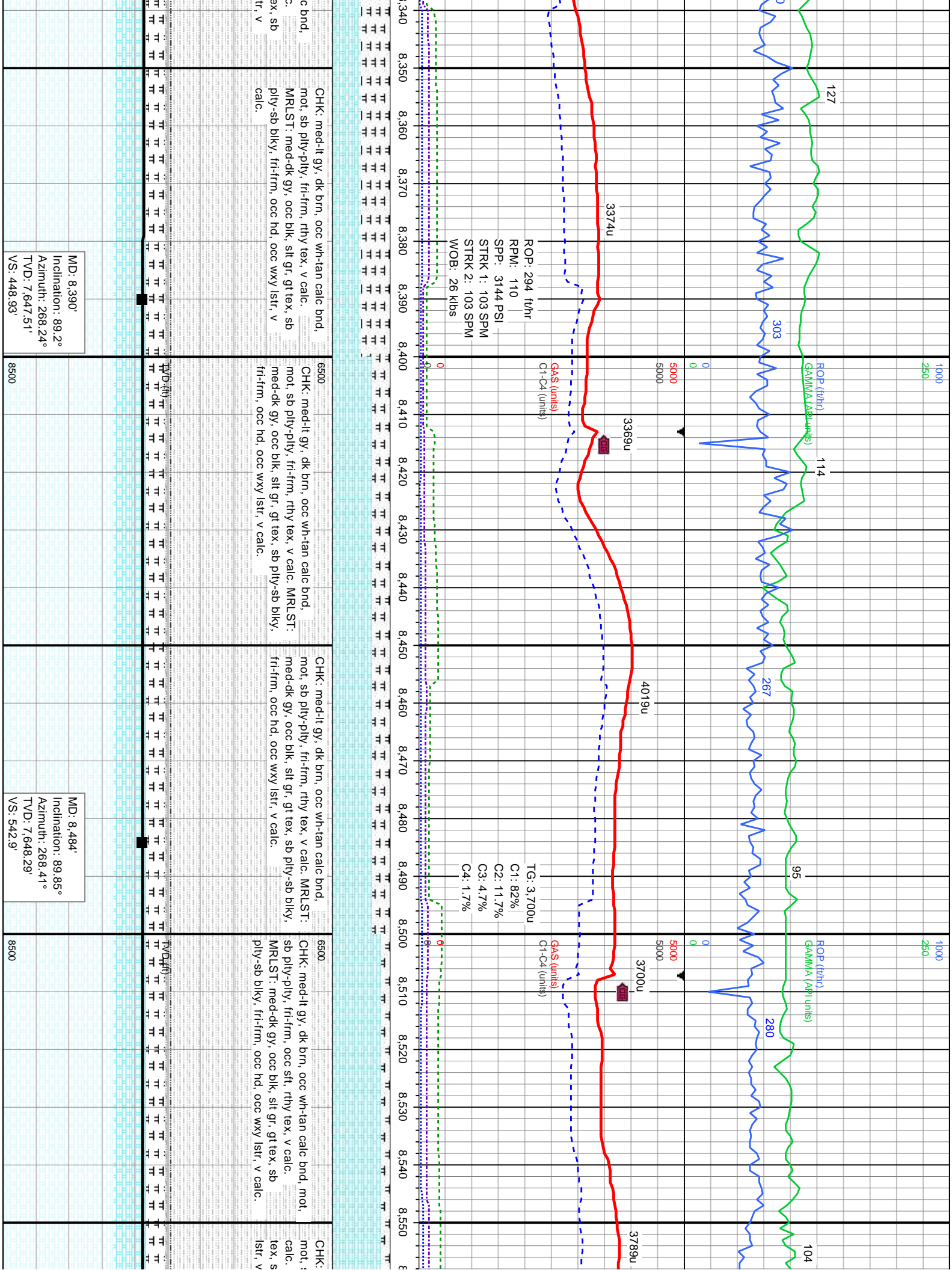
CHK: med-dk gy, dk brn, occ crm-wh calc bnd,
mot, sb ply-biky, fri-frm, rthy tex, v calc.

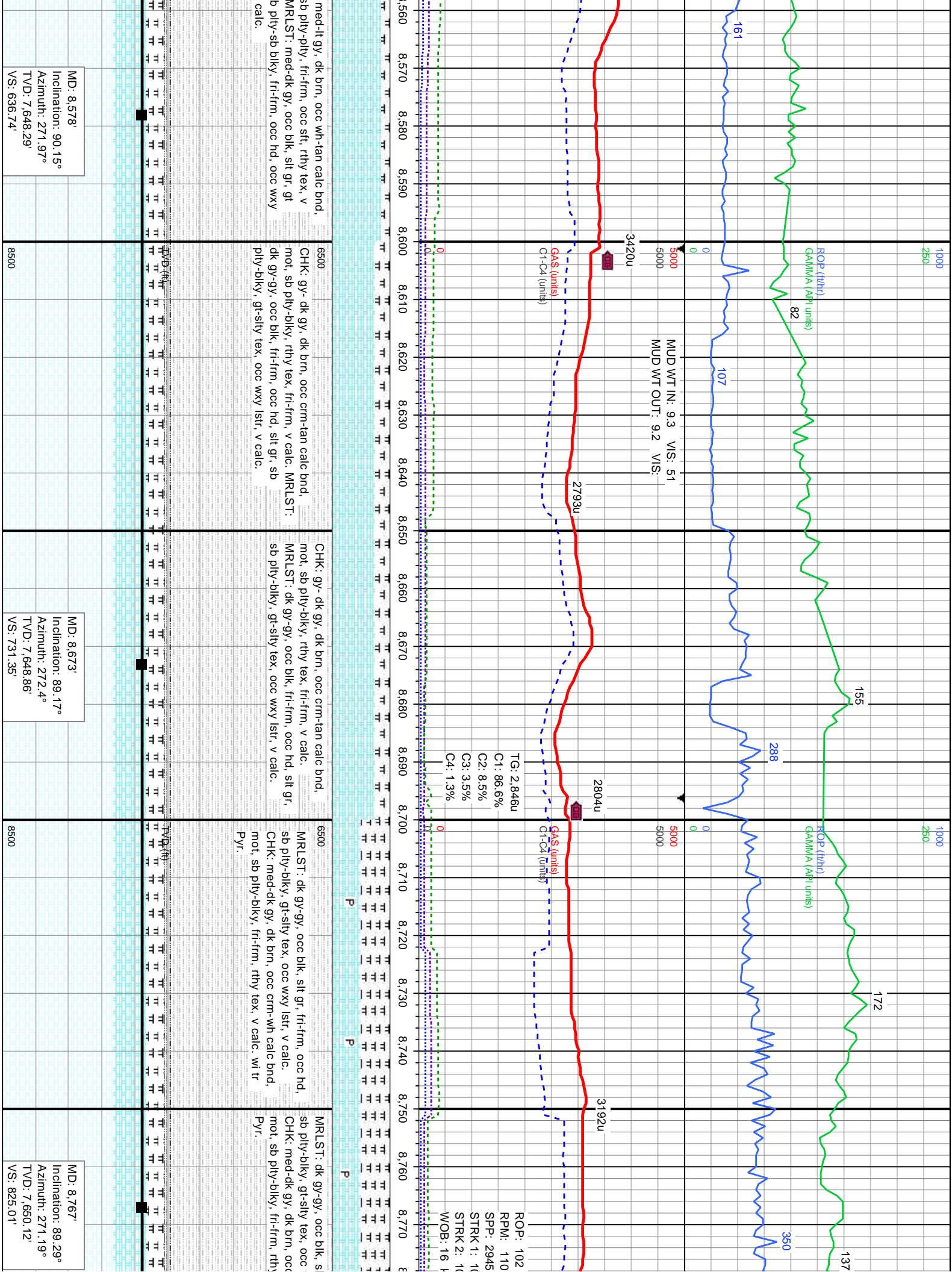
CHK: med-dk gy, dk brn, occ crm-wh calc bnd,
mot, sb ply-biky, fri-frm, rthy tex, v calc.

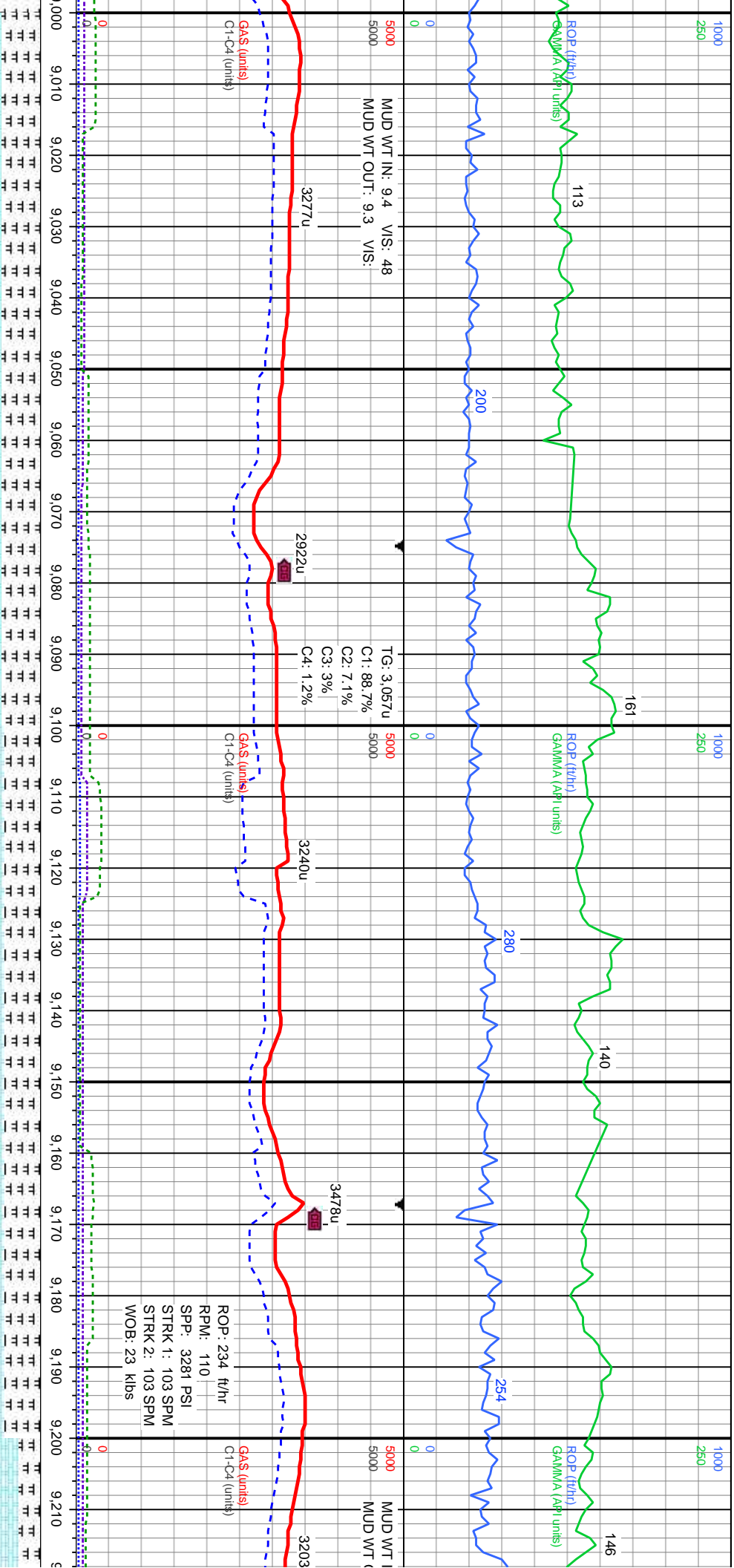
CHK: med-dk gy, dk brn, occ crm-wh calc bnd,
mot, sb ply-biky, fri-frm, rthy tex, v calc.

CHK: med-dk gy, dk brn, occ crm-wh calc bnd,
mot, sb ply-biky, fri-frm, rthy tex, v calc.

CHK: med-dk gy, dk brn, occ crm-wh calc bnd,
mot, sb ply-biky, fri-frm, rthy tex, v calc.







MR.LST: dk gy-gy, occ blk, slt gr, fri-frn, occ hd,
sb pily-biky, gt-sily tex, occ wxy lstr, v calc.
CHK: med-dk gy, dk brn, occ crn-wh calc bnd,
mot, sb pily-biky, fri-frn, rthy tex, v calc.

MR.LST: dk gy-gy, occ blk, slt gr, fri-frn, occ hd,
sb pily-biky, gt-sily tex, occ wxy lstr, v calc.
CHK: med-dk gy, dk brn, occ crn-wh calc bnd,
mot, sb pily-biky, fri-frn, rthy tex, v calc.

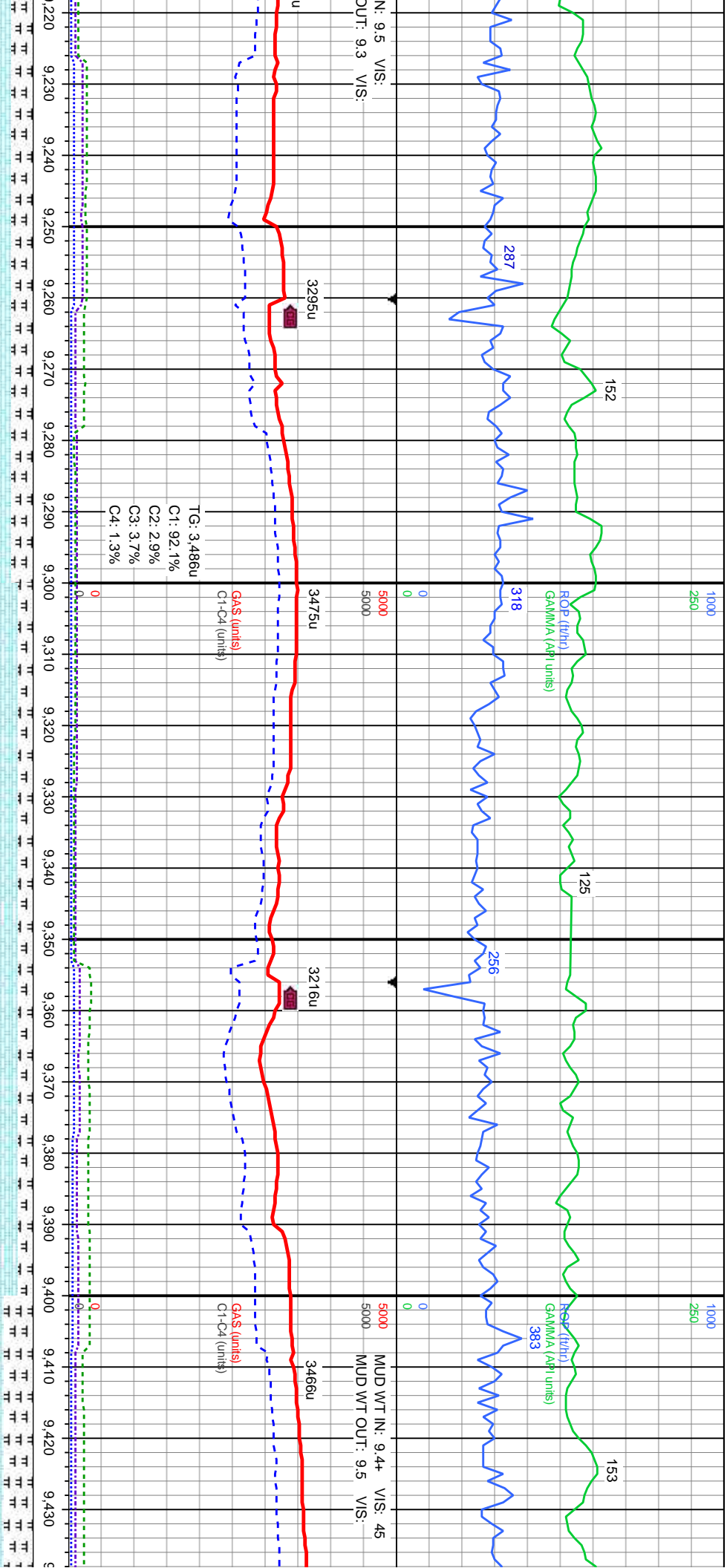
MR.LST: med-dk gy, occ blk, slt gr, gt tex, sb
pily-sb biky, fri-frn, occ hd, occ wxy lstr, v
calc. CHK: med-lt gy, dk brn, occ wh-tan bnd,
mot, sb pily-pily, fri-frn, rthy tex, v calc.

MR.LST: med-dk gy, occ blk, slt gr, gt tex, sb
pily-sb biky, fri-frn, occ hd, occ wxy lstr, v
calc. CHK: med-lt gy, dk brn, occ wh-tan bnd,
mot, sb pily-pily, fri-frn, rthy tex, v calc.

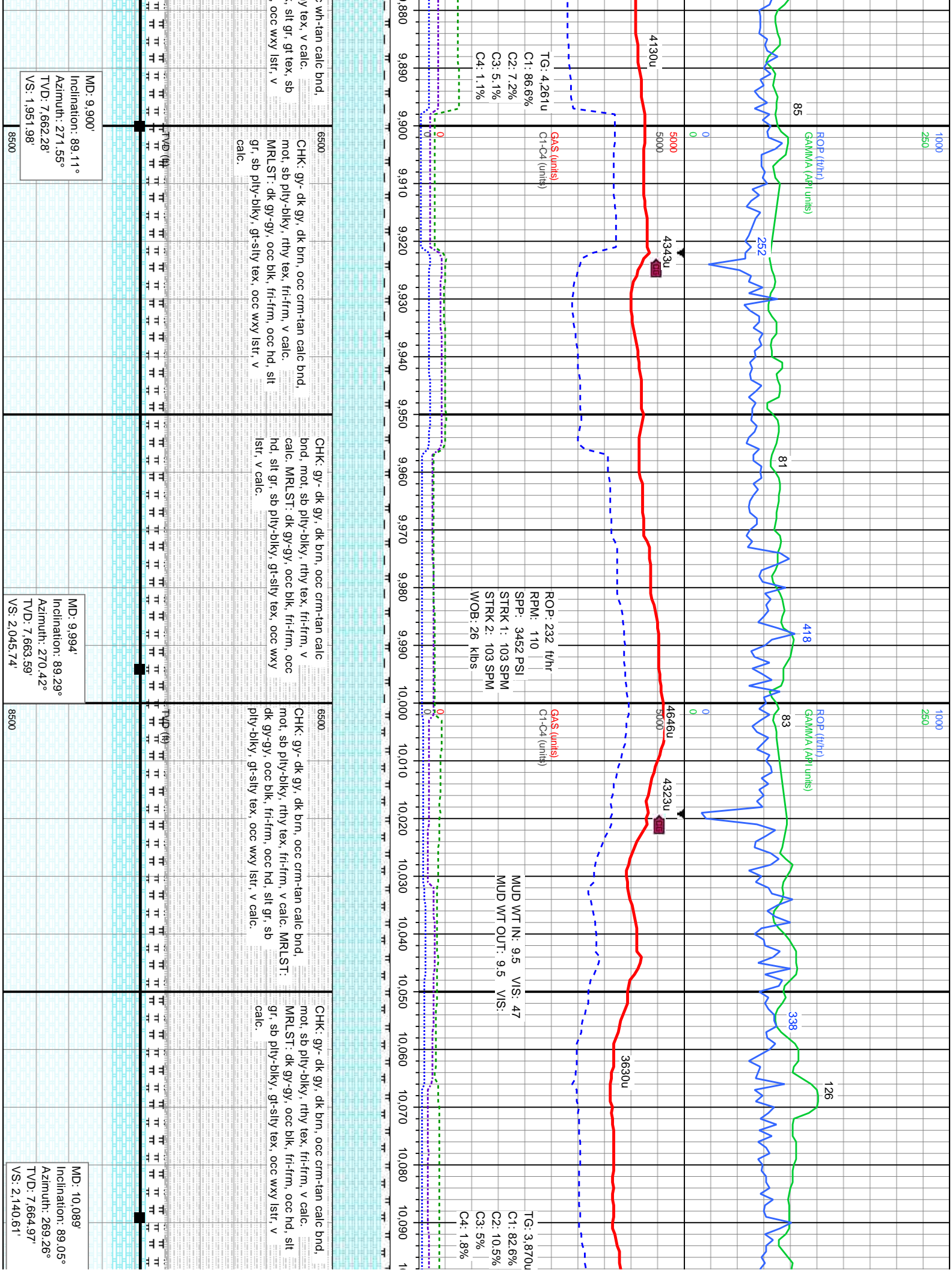
CHK: gy- dk gy, d
mot, sb pily-biky,
dk gy-gy, occ blk,
pily-biky, gt-sily t

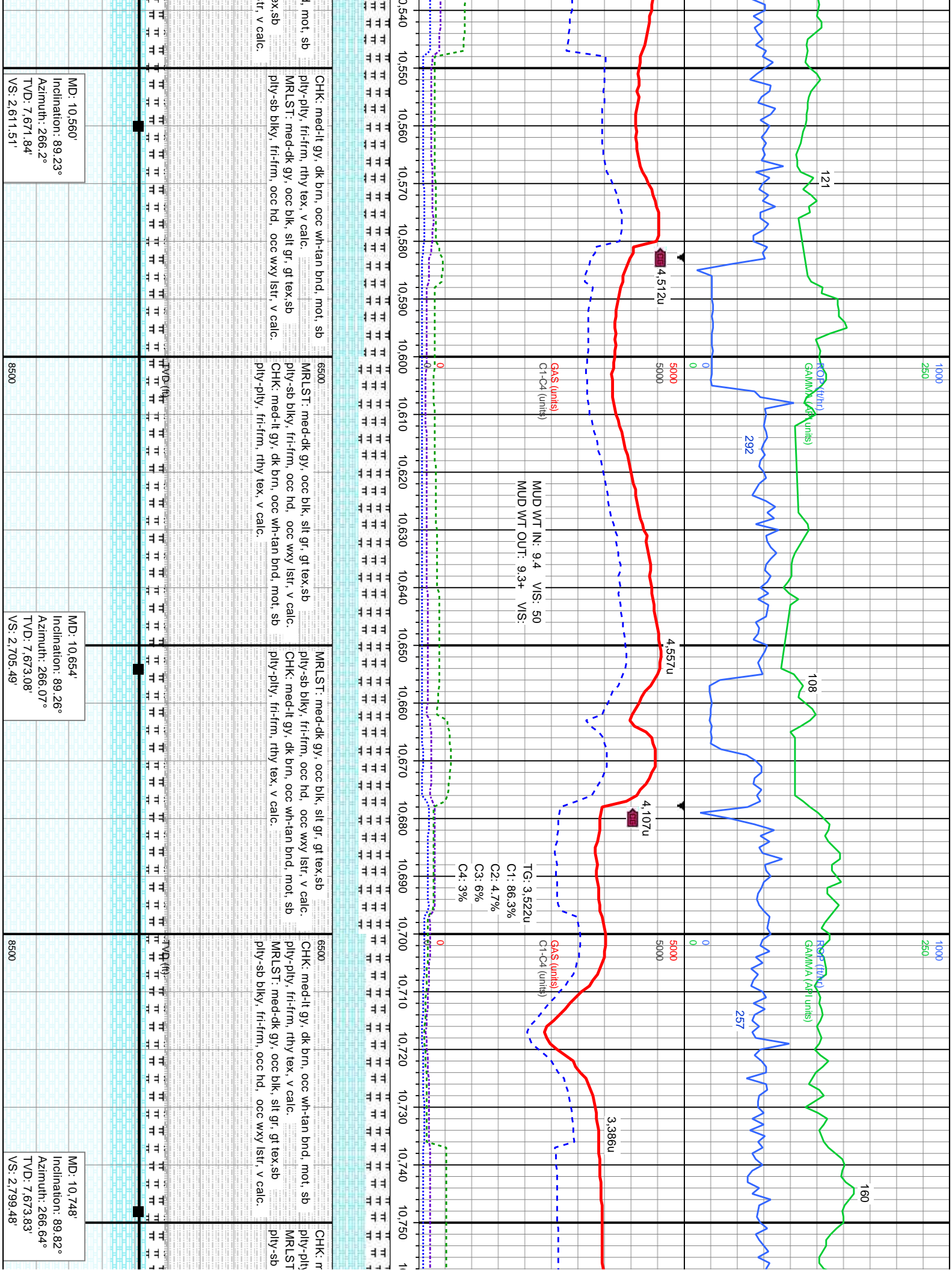
MD: 9.050'
Inclination: 89.45°
Azimuth: 275.95°
TVD: 7.662.83'
VS: 1,106.57'

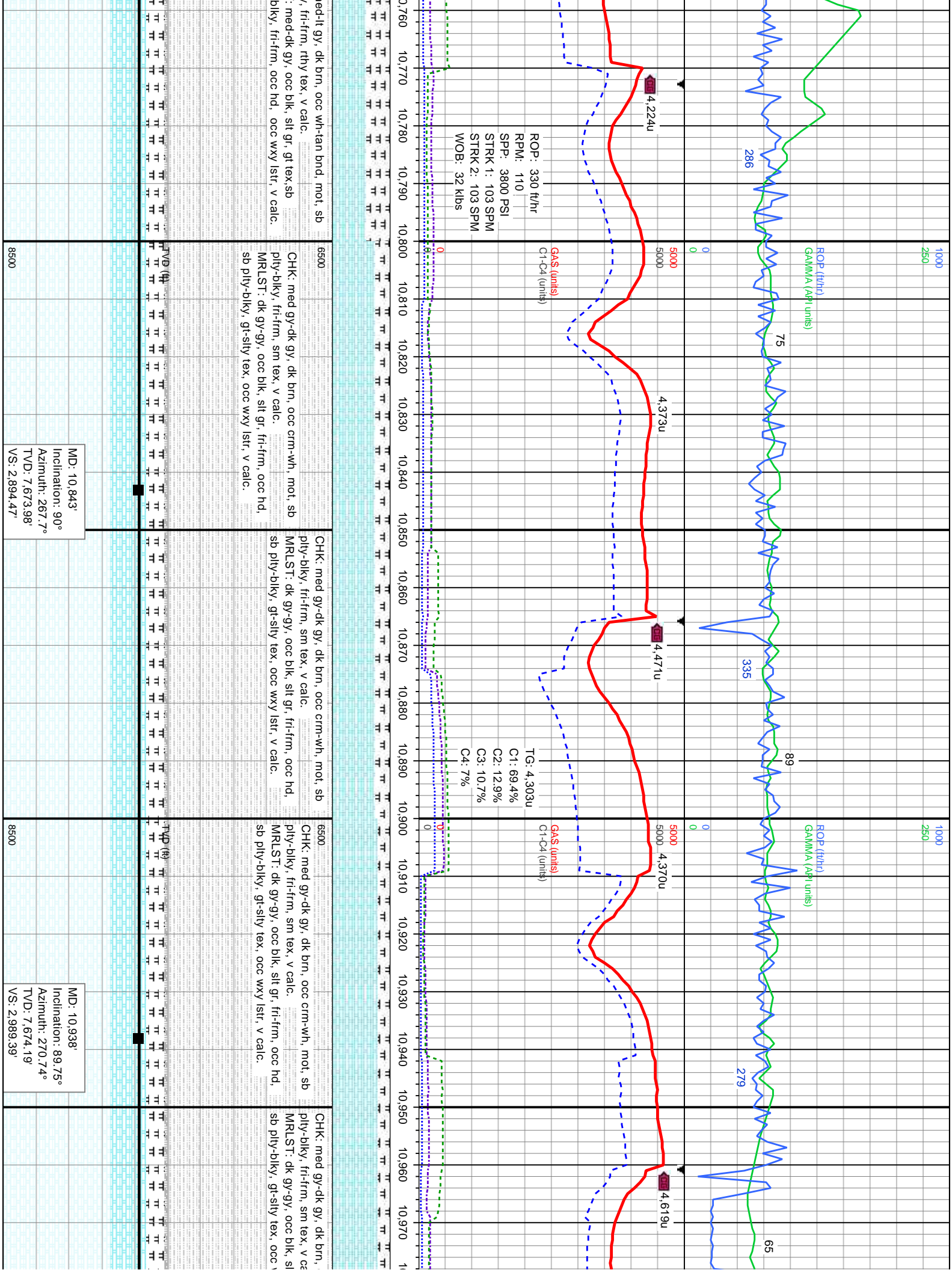
MD: 9.144'
Inclination: 89.14°
Azimuth: 275.02°
TVD: 7.663.99'
VS: 1,199.54'

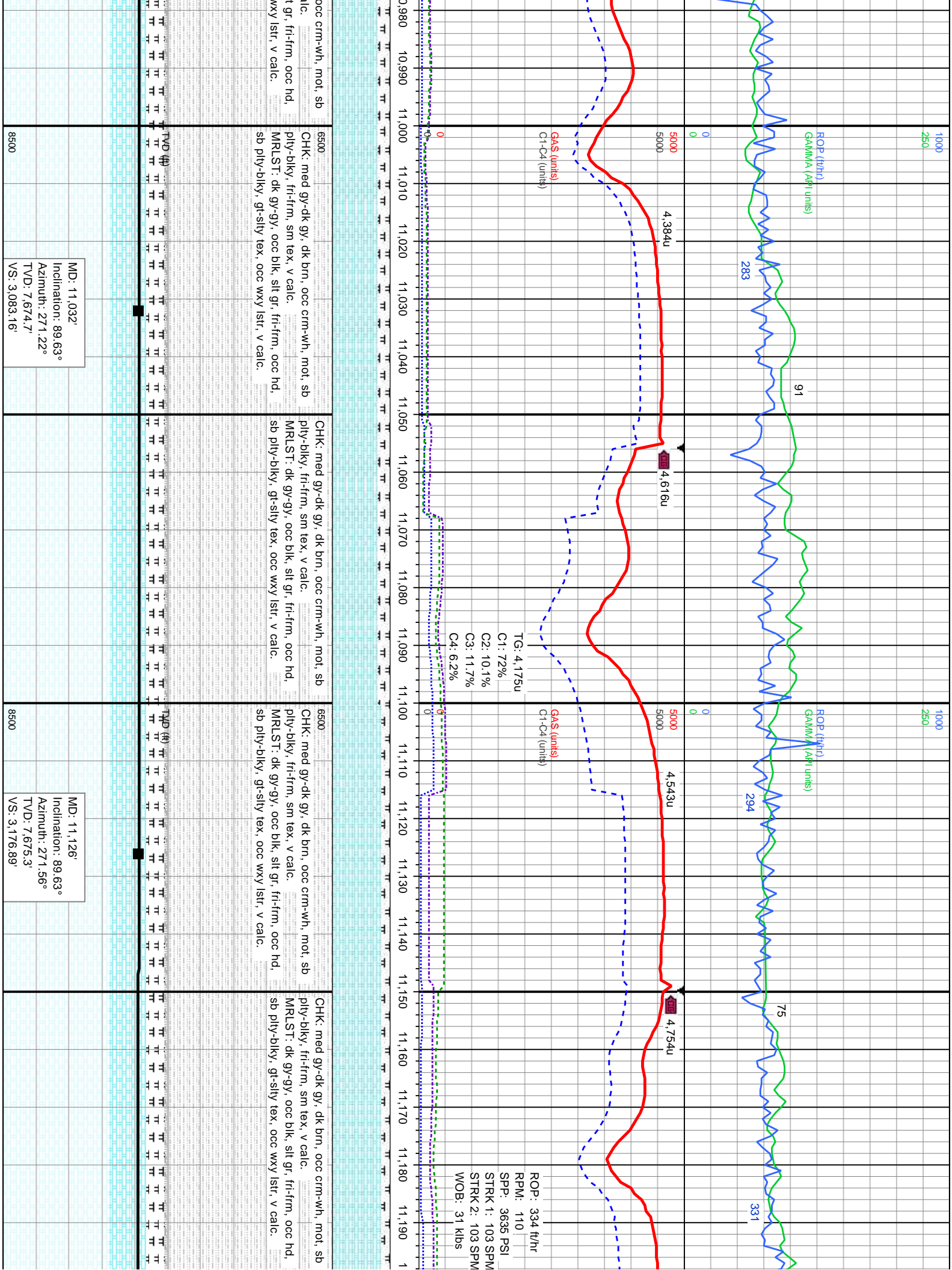


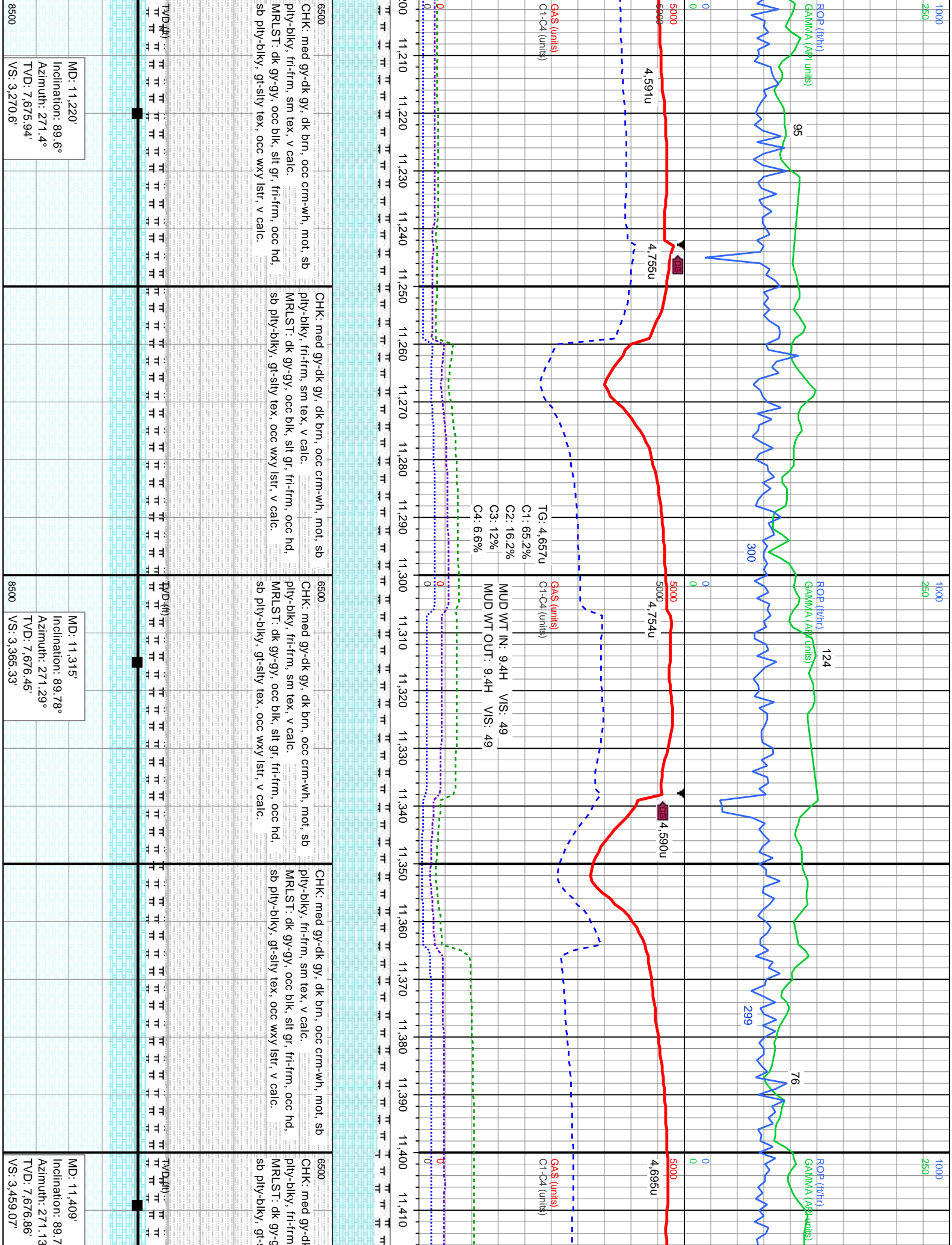
k brn, occ crm-tan calc bnd, rthy tex, fri-frm, v calc. MRLST: fri-frm, occ nd, slit gr, sb calc.		CHK: gy- dk gy, dk brn, occ crm-tan calc bnd, mot, sb ply-biky, rthy tex, fri-frm, v calc. MRLST: dk gy-gy, occ blk, fri-frm, occ nd, slit gr, sb ply-biky, gt-sily tex, occ wxy lst, v calc.		6500 CHK: med-lt gy, dk brn, occ wh-tan calc bnd, mot, sb ply-pty, fri-frm, rthy tex, v calc. MRLST: med-dk gy, occ blk, slit gr, gt tex, sb ply-sb biky, fri-frm, occ hd, occ wxy lst, v calc.		6500 CHK: med-lt gy, dk brn, occ wh-tan calc bnd, mot, sb ply-pty, fri-frm, rthy tex, v calc. MRLST: med-dk gy, occ blk, slit gr, gt tex, sb ply-sb biky, fri-frm, occ hd, occ wxy lst, v calc.		6500 CHK: gy- dk gy, dk brn, occ crm-tan calc bnd, mot, sb ply-biky, rthy tex, fri-frm, v calc. MRLST: dk gy-gy, occ blk, fri-frm, occ nd, slit gr, sb ply-biky, gt-sily tex, occ wxy lst, v calc.	
MD: 9,239' Inclination: 89.26° Azimuth: 273.8° TVD: 7,655.32' VS: 1,293.73'		MD: 9,333' Inclination: 89.72° Azimuth: 273.59° TVD: 7,656.15' VS: 1,387.09'		MD: 9,428' Inclination: 89.42° Azimuth: 272.89° TVD: 7,656.87' VS: 1,481.53'					

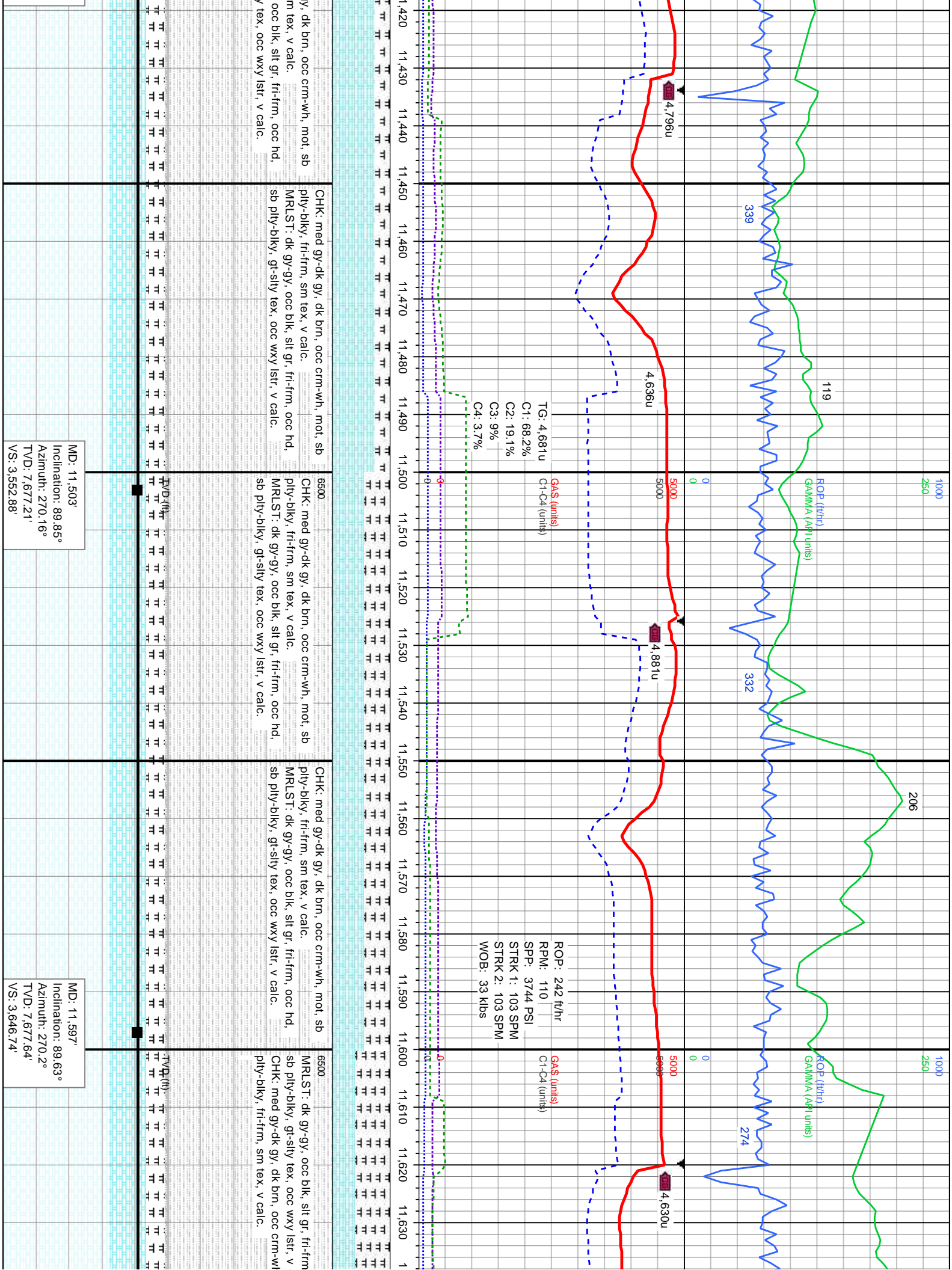


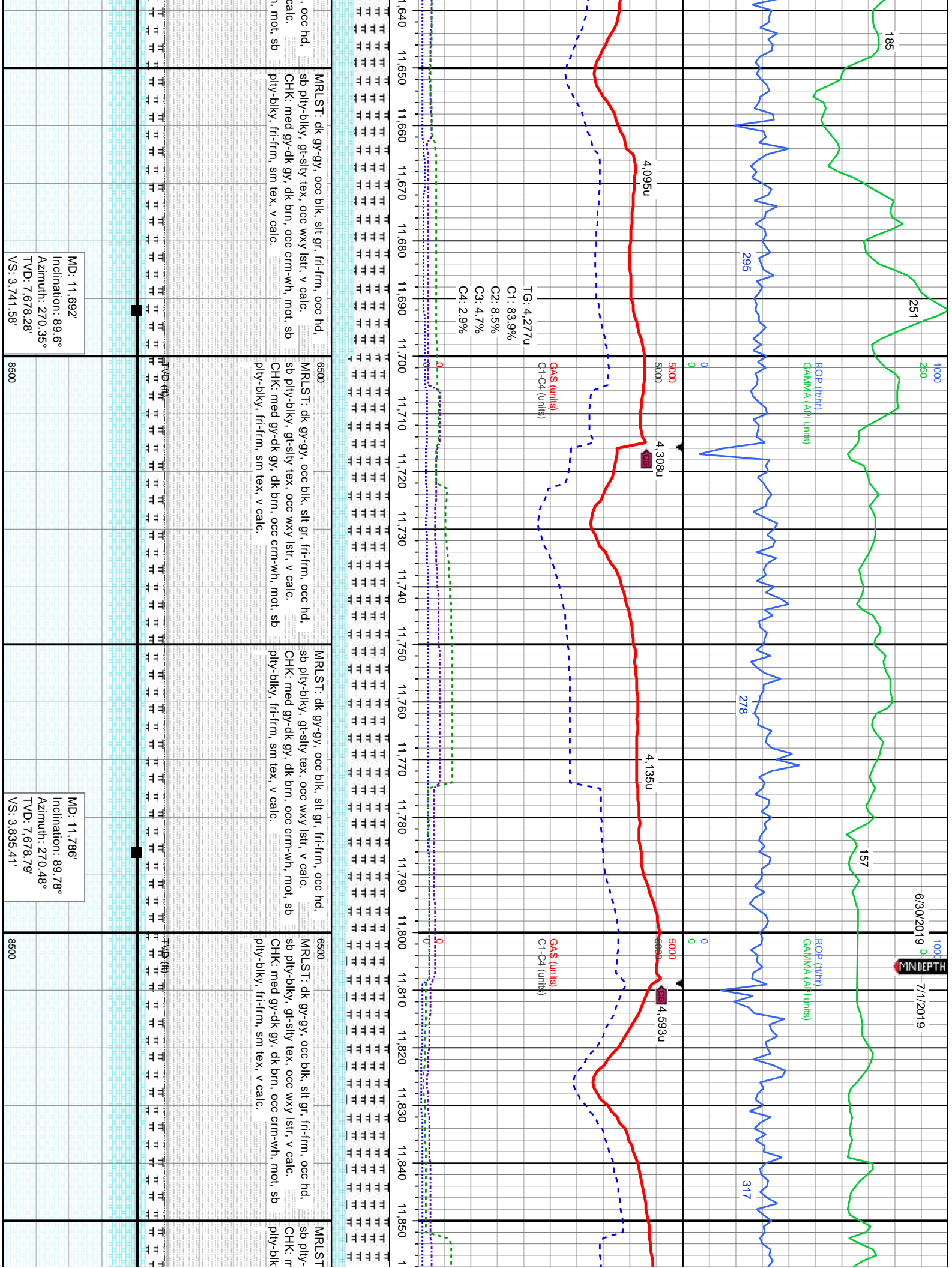


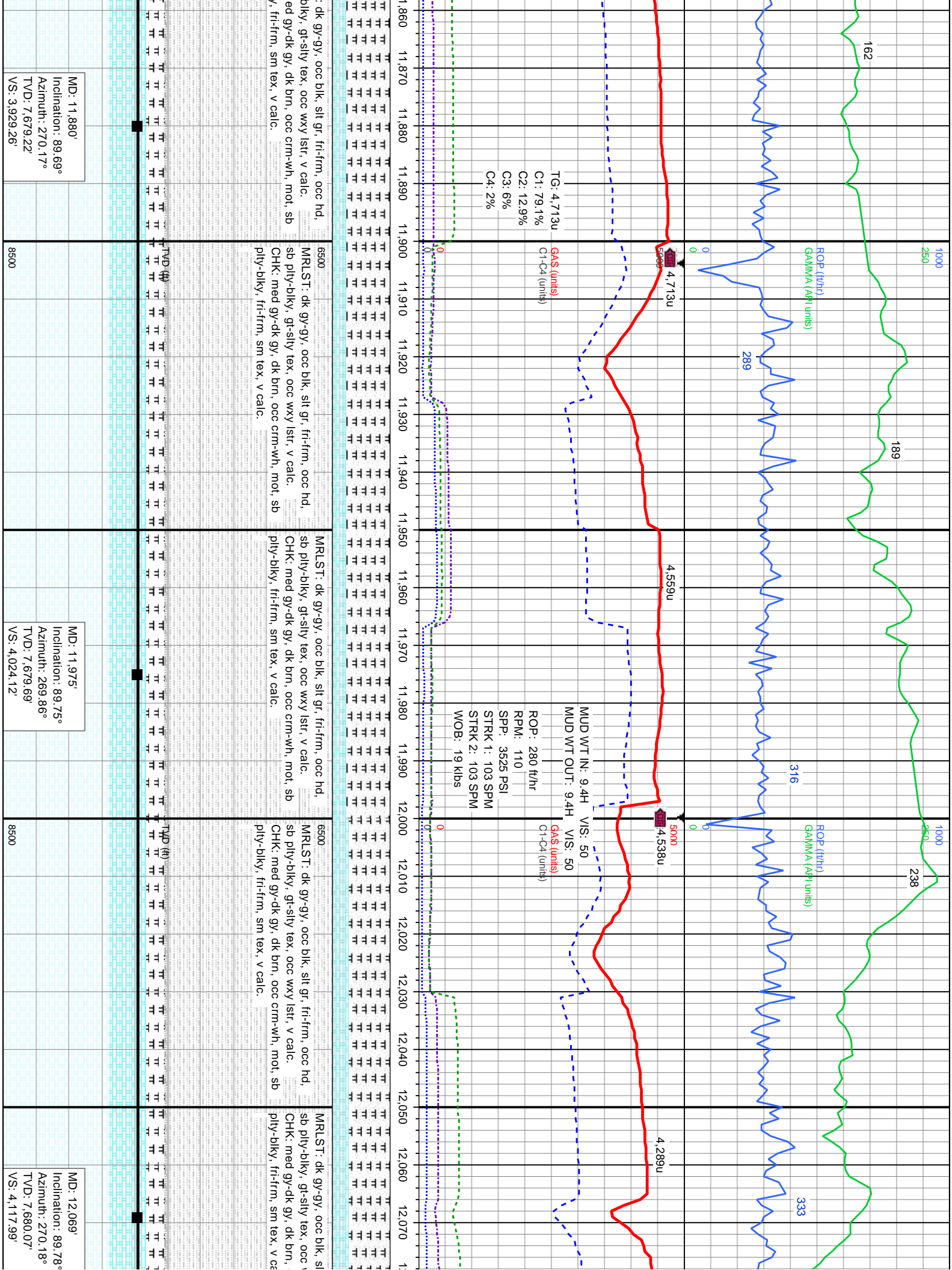


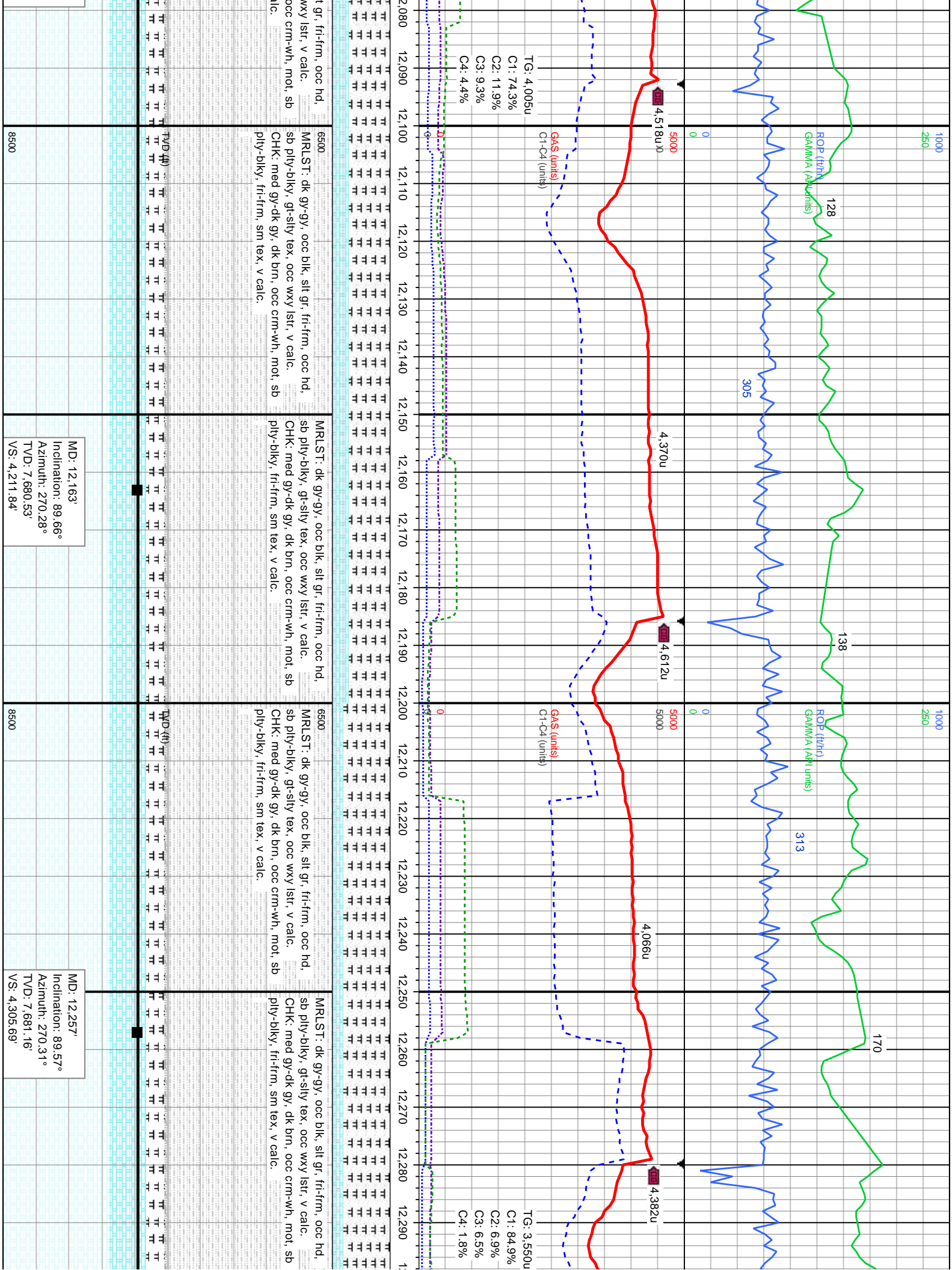


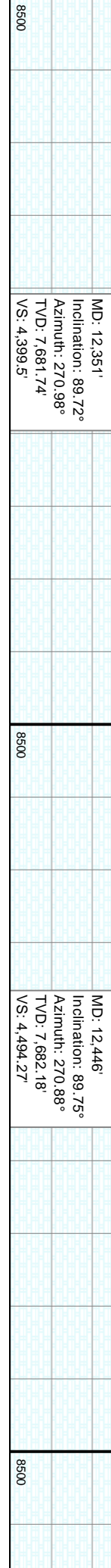
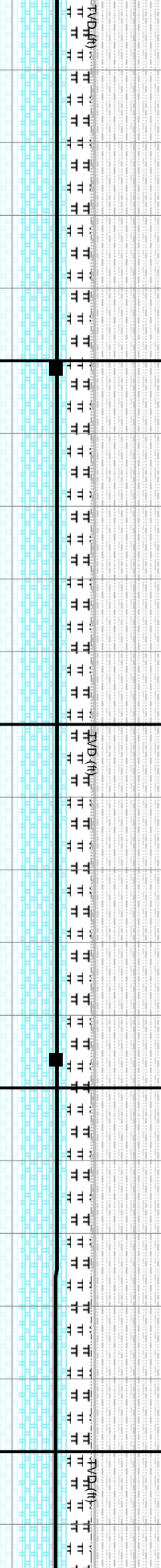
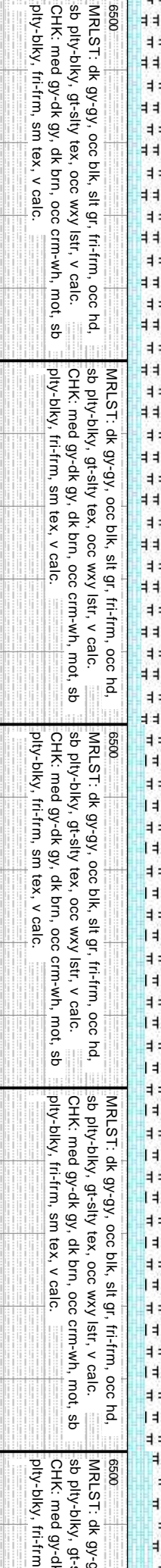
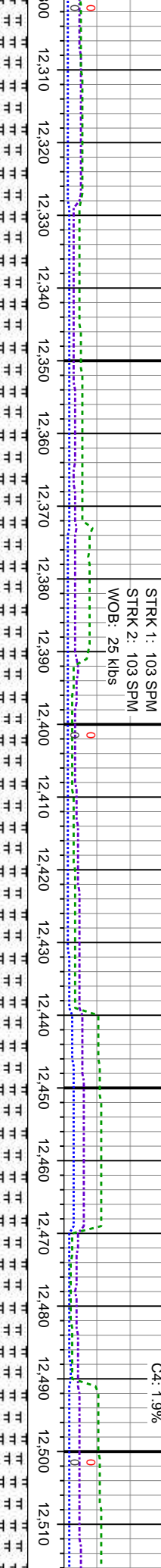
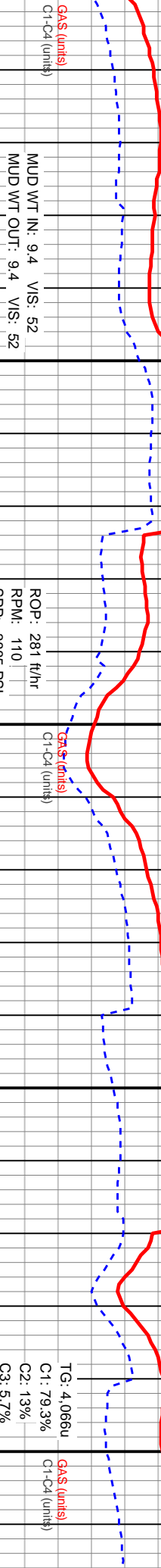
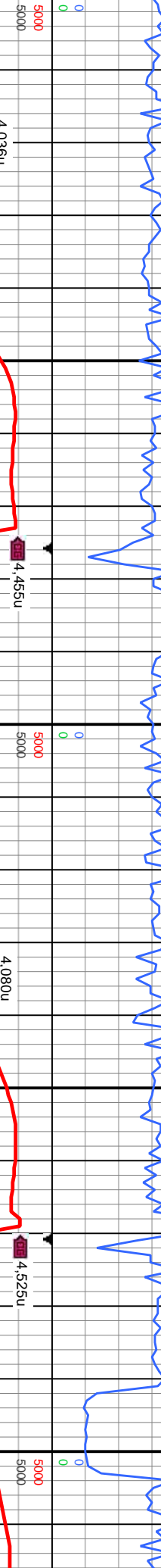
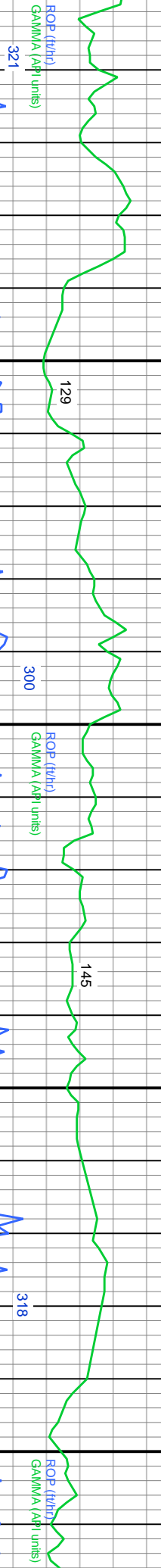
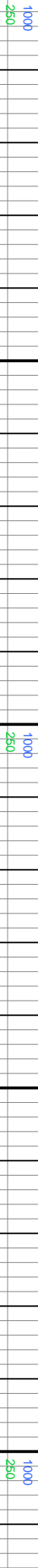


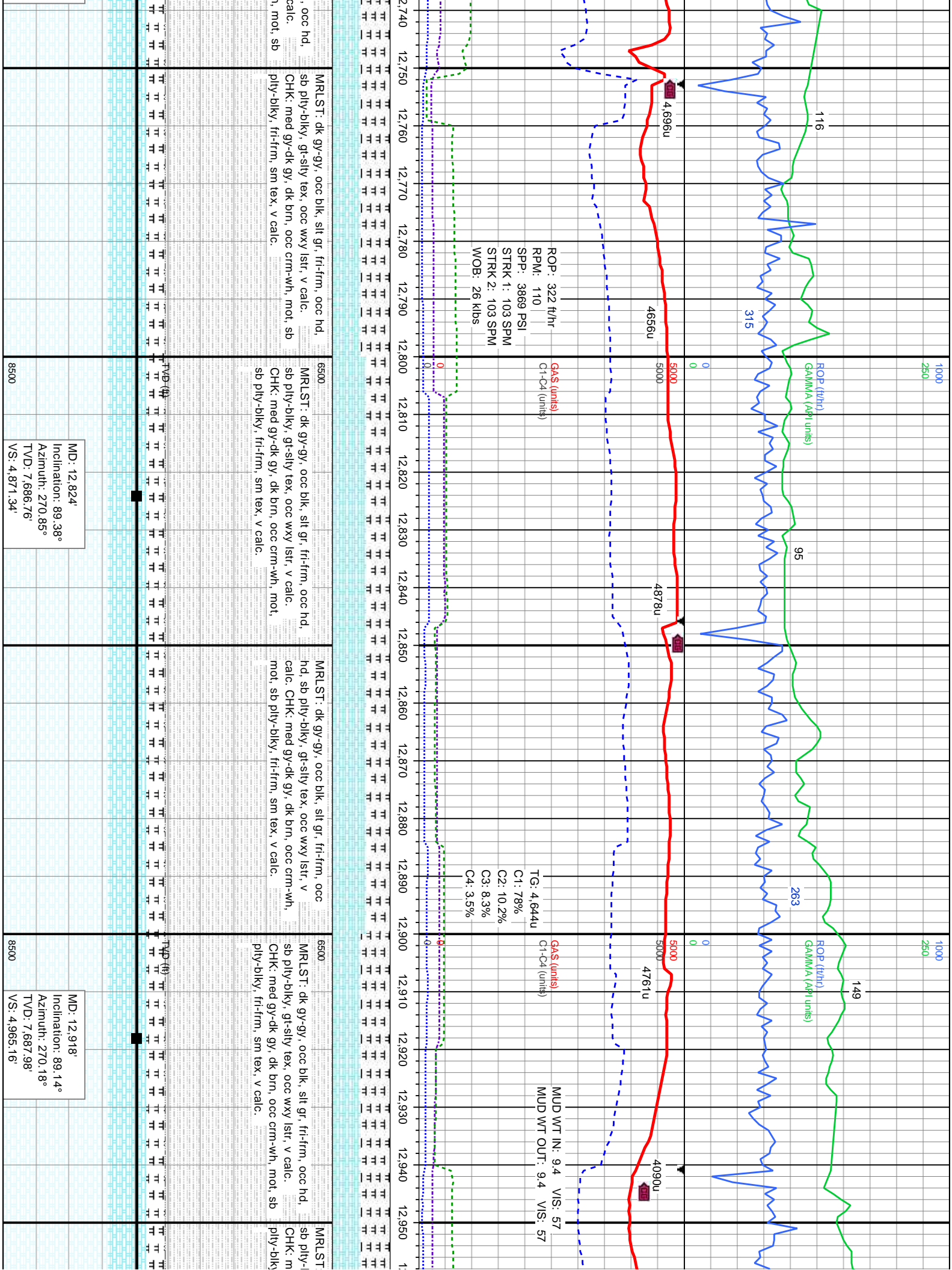


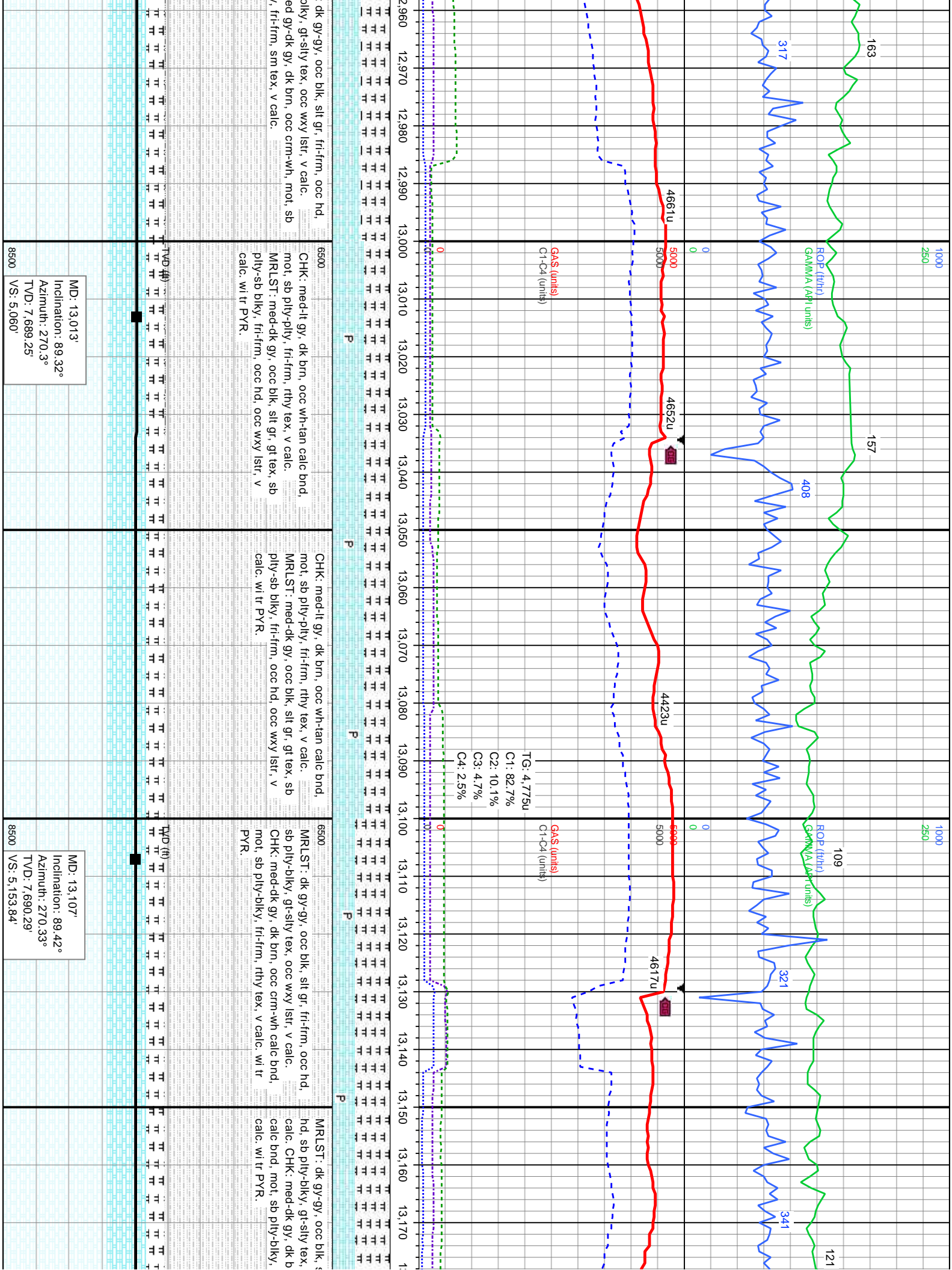


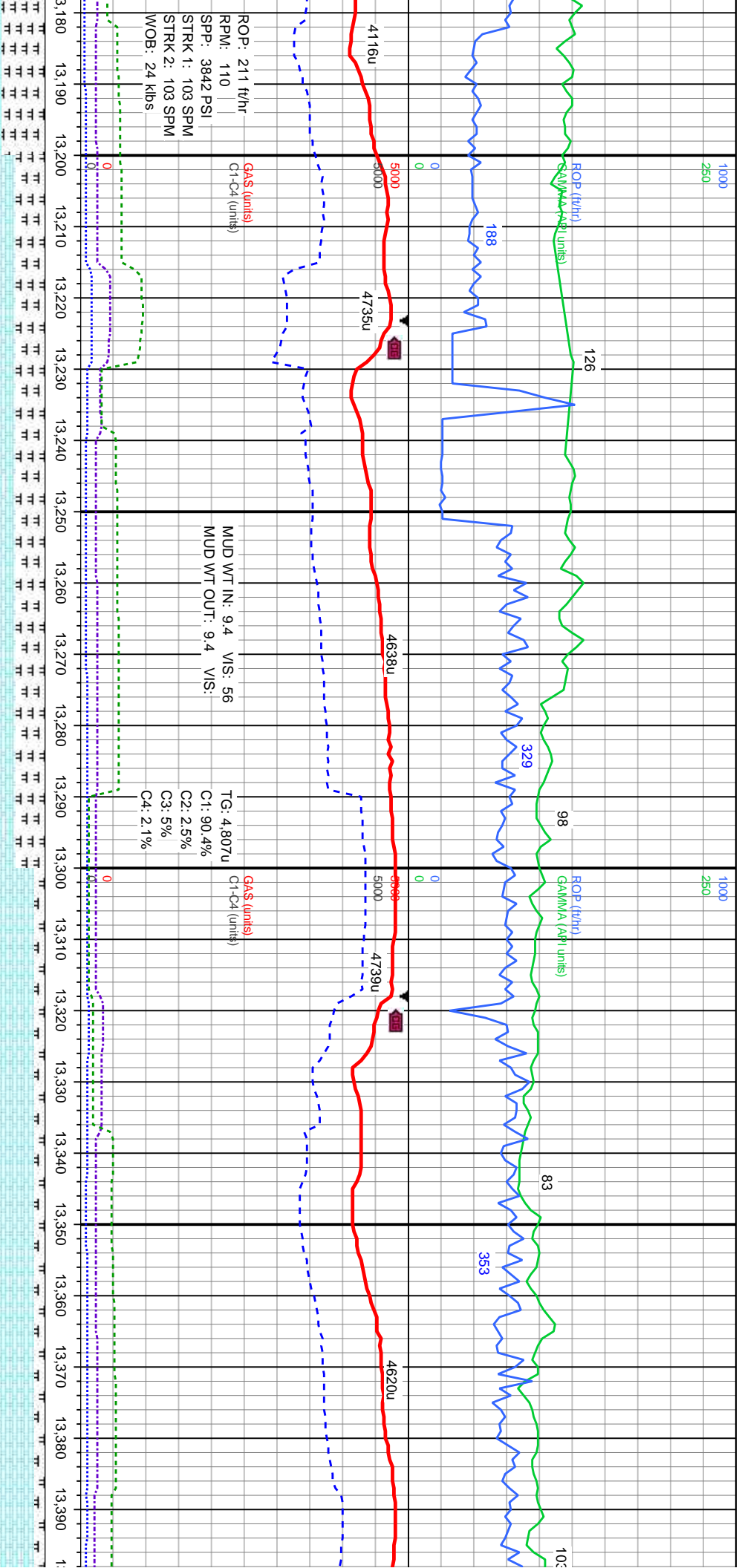




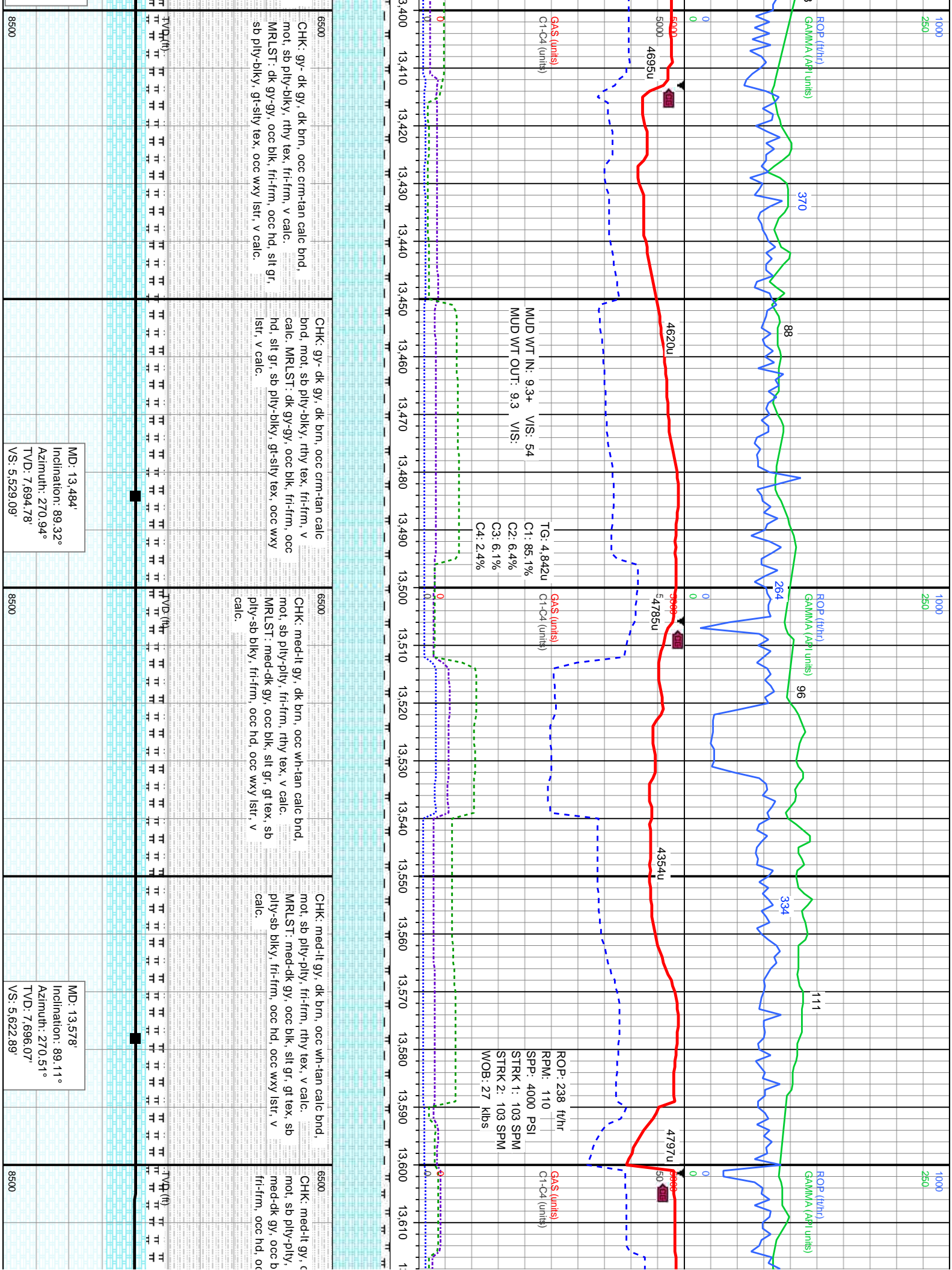


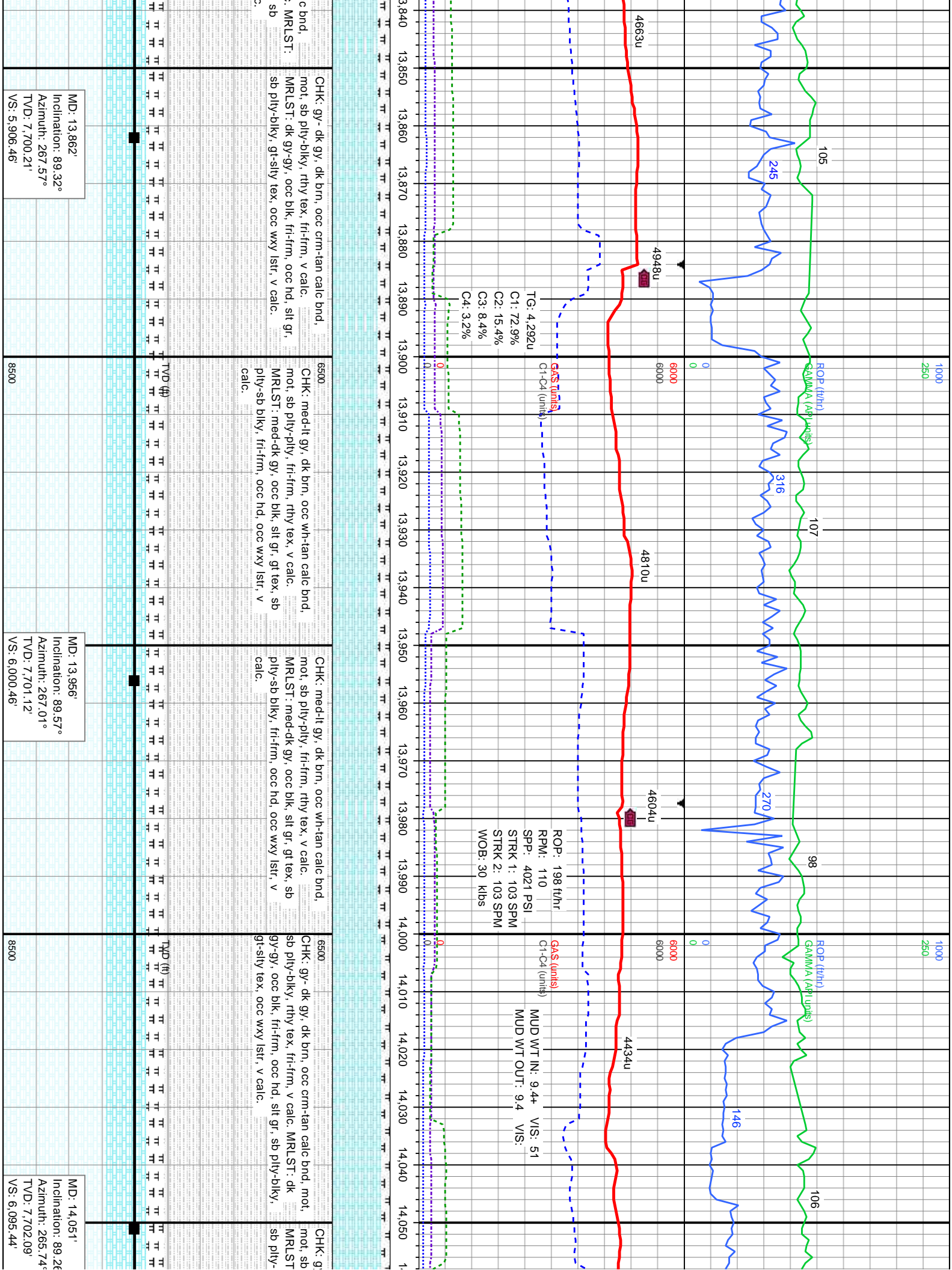


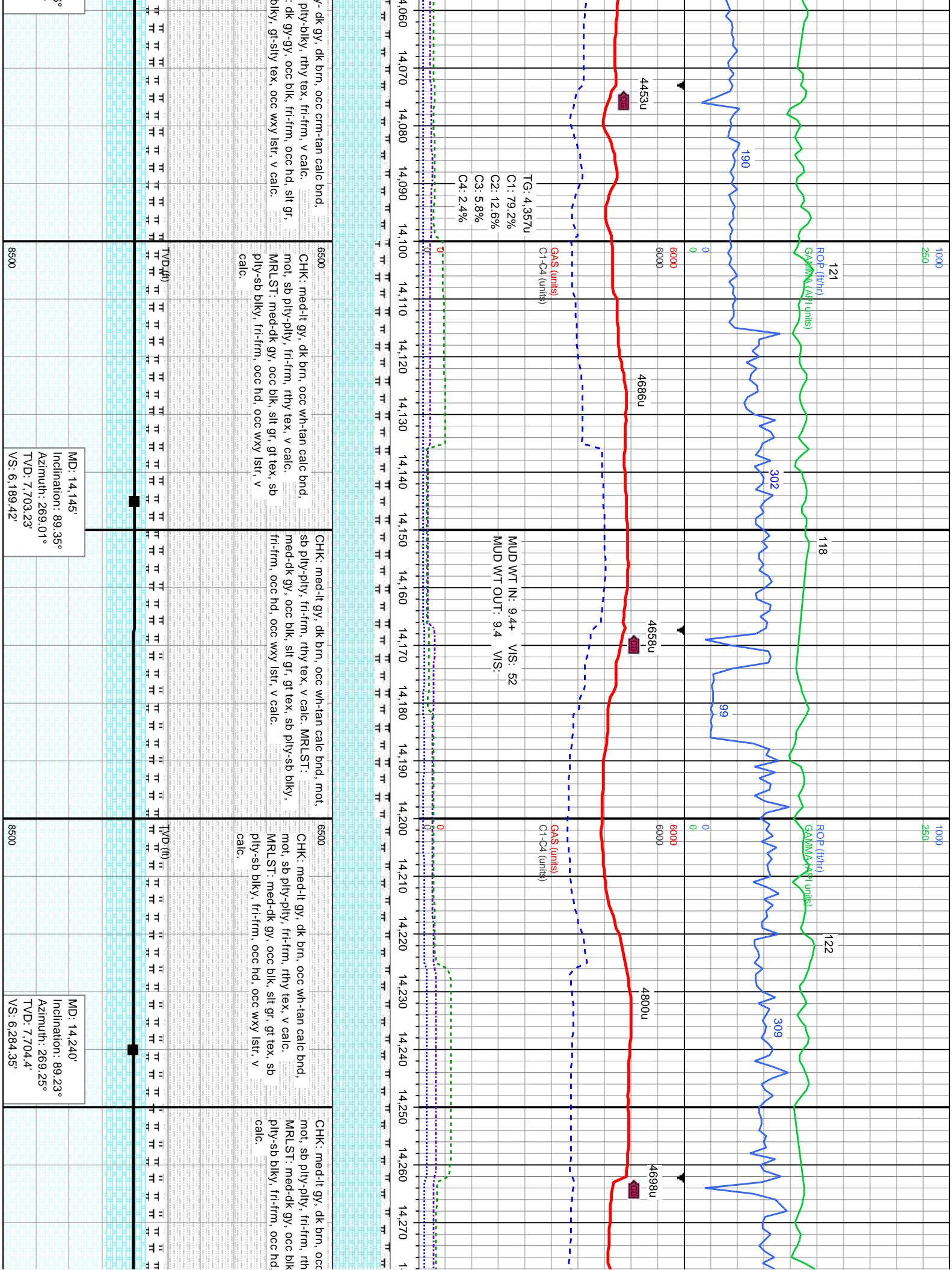


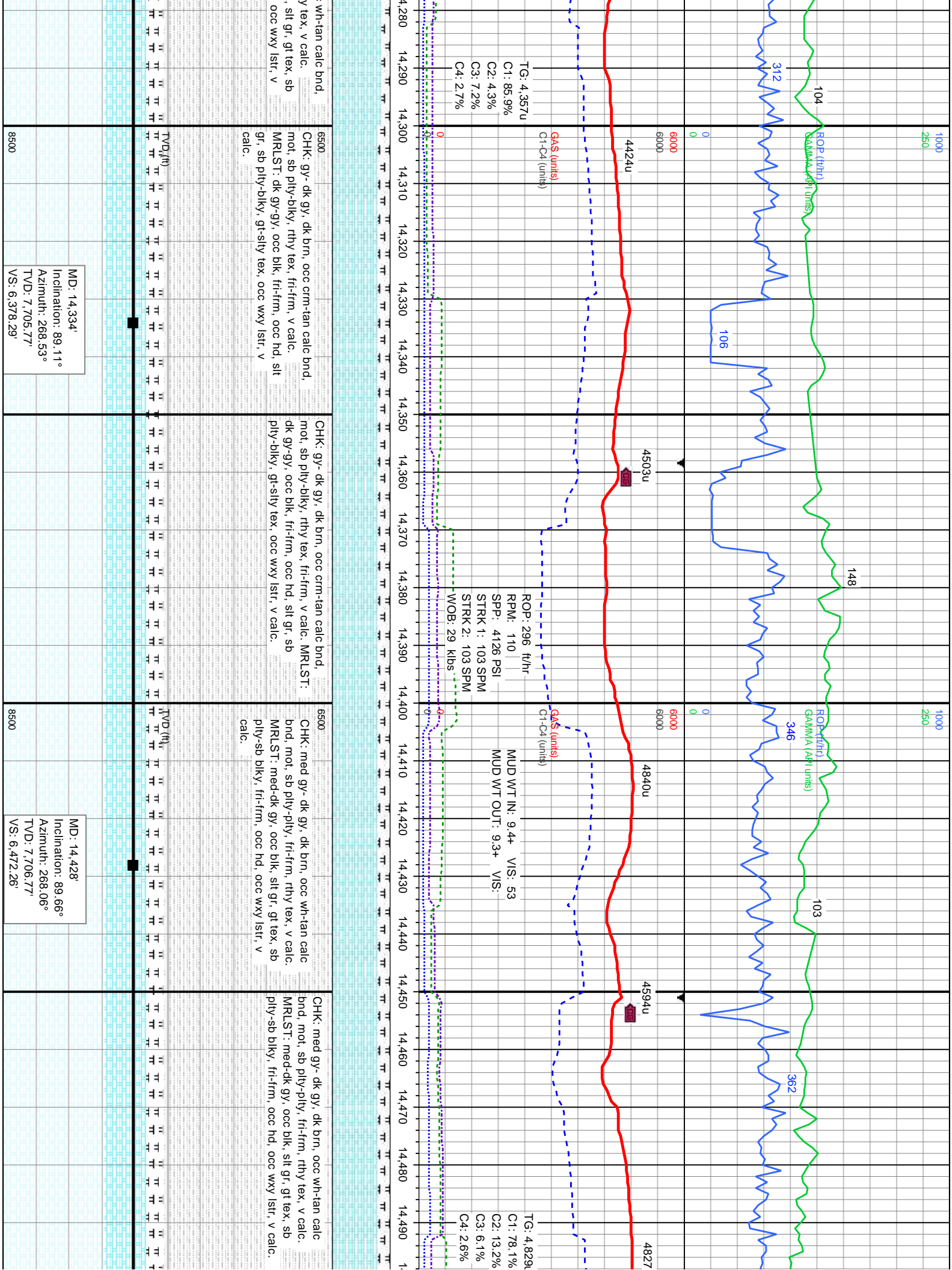


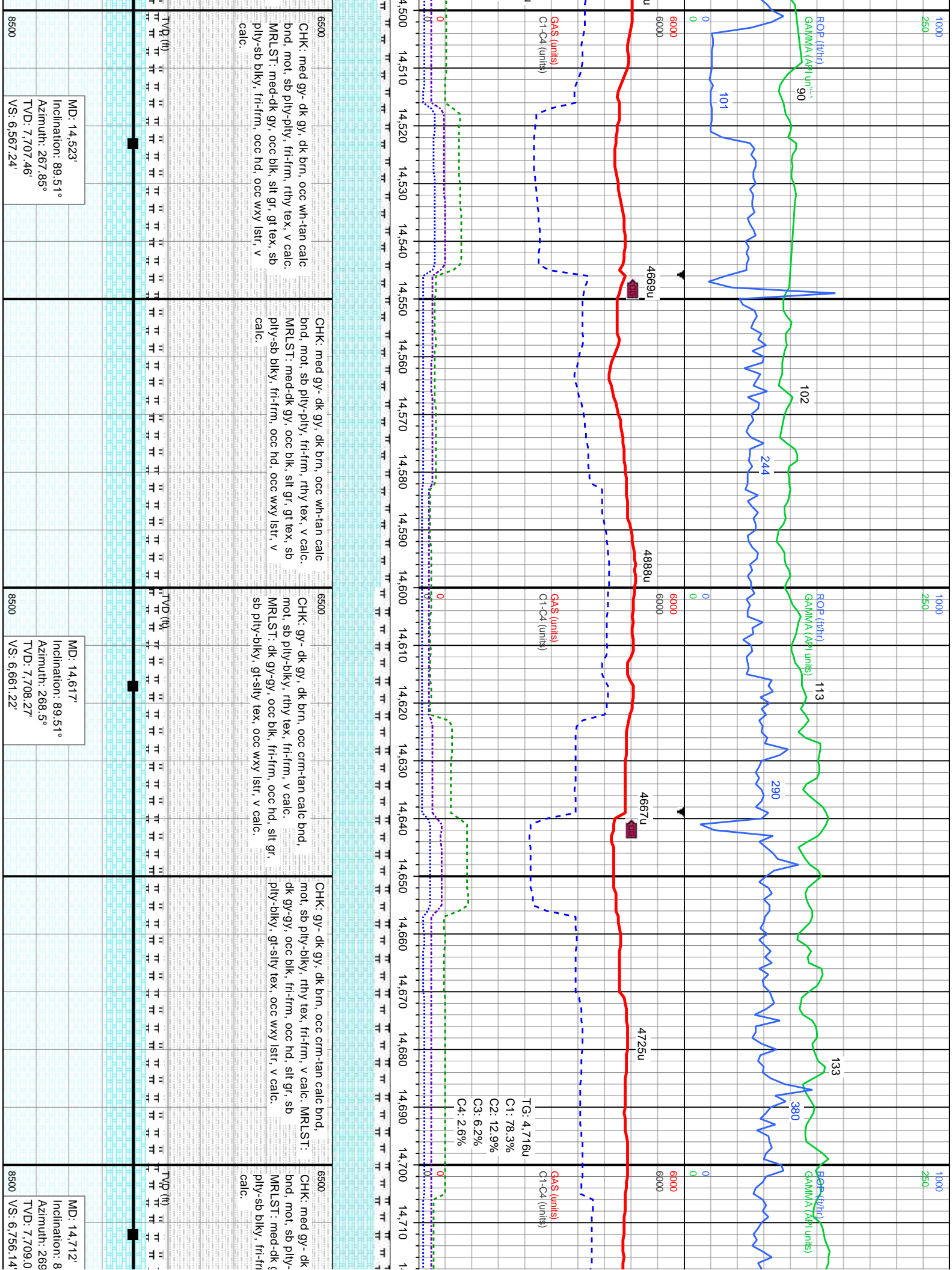
ROP: 211 ft/hr RPM: 110 SPR: 3842 PSI STRK 1: 103 SPM STRK 2: 103 SPM WOB: 24 klbs		MUD WT IN: 9.4 VIS: 56 MUD WT OUT: 9.4 VIS:		TG: 4.807u C1: 90.4% C2: 2.5% C3: 5% C4: 2.1%	
GAS (units) C1-C4 (units)		GAS (units) C1-C4 (units)		GAS (units) C1-C4 (units)	
slt gr, fri-frm, occ occ wxy lstr, v frm, occ crm-wb fri-frm, rthy tex, v		CHK: gy- dk gy, dk brn, occ crm-tan calc bnd, mot, sb ply-biky, rthy tex, fri-frm, v calc. MRLST: dk gy-gy, occ blk, fri-frm, occ hd, slt gr, sb ply-biky, gt-sily tex, occ wxy lstr, v calc.		CHK: med-lt gy, dk brn, occ wh-tan calc bnd, mot, sb ply-ply, fri-frm, rthy tex, v calc. MRLST: med-dk gy, occ blk, slt gr, gt tex, sb ply-sb biky, fri-frm, occ hd, occ wxy lstr, v calc.	
6500		6500		6500	
TVD(ft)		TVD(ft)		TVD(ft)	
MD: 13.201' Inclination: 89.38° Azimuth: 273.37° TVD: 7.691.27' VS: 5.247.49'		MD: 13.296' Inclination: 89.29° Azimuth: 273.4° TVD: 7.692.37' VS: 5.341.89'		MD: 13.390' Inclination: 89.23° Azimuth: 272.22° TVD: 7.693.59' VS: 5.435.4'	
8500		8500		8500	

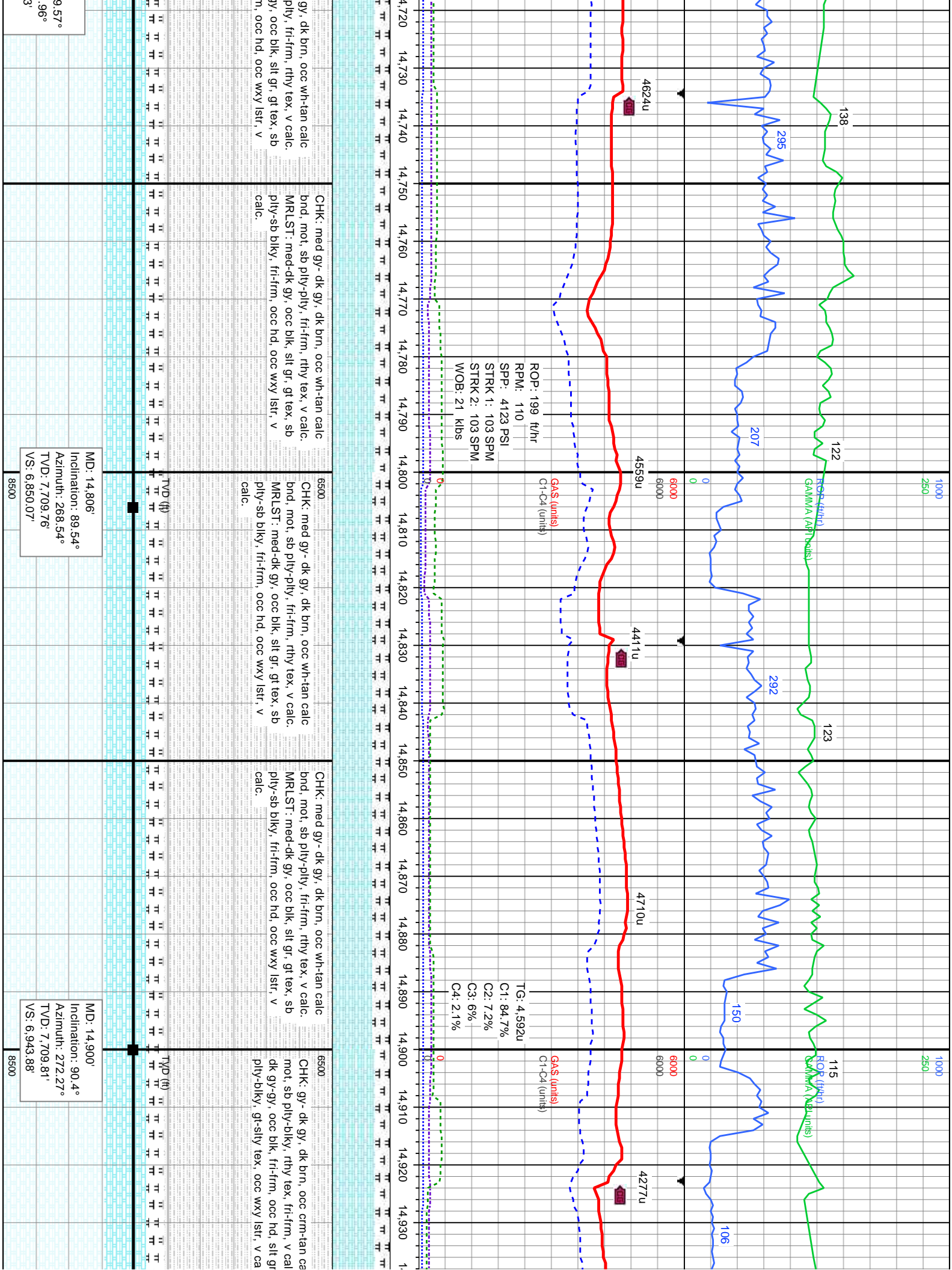


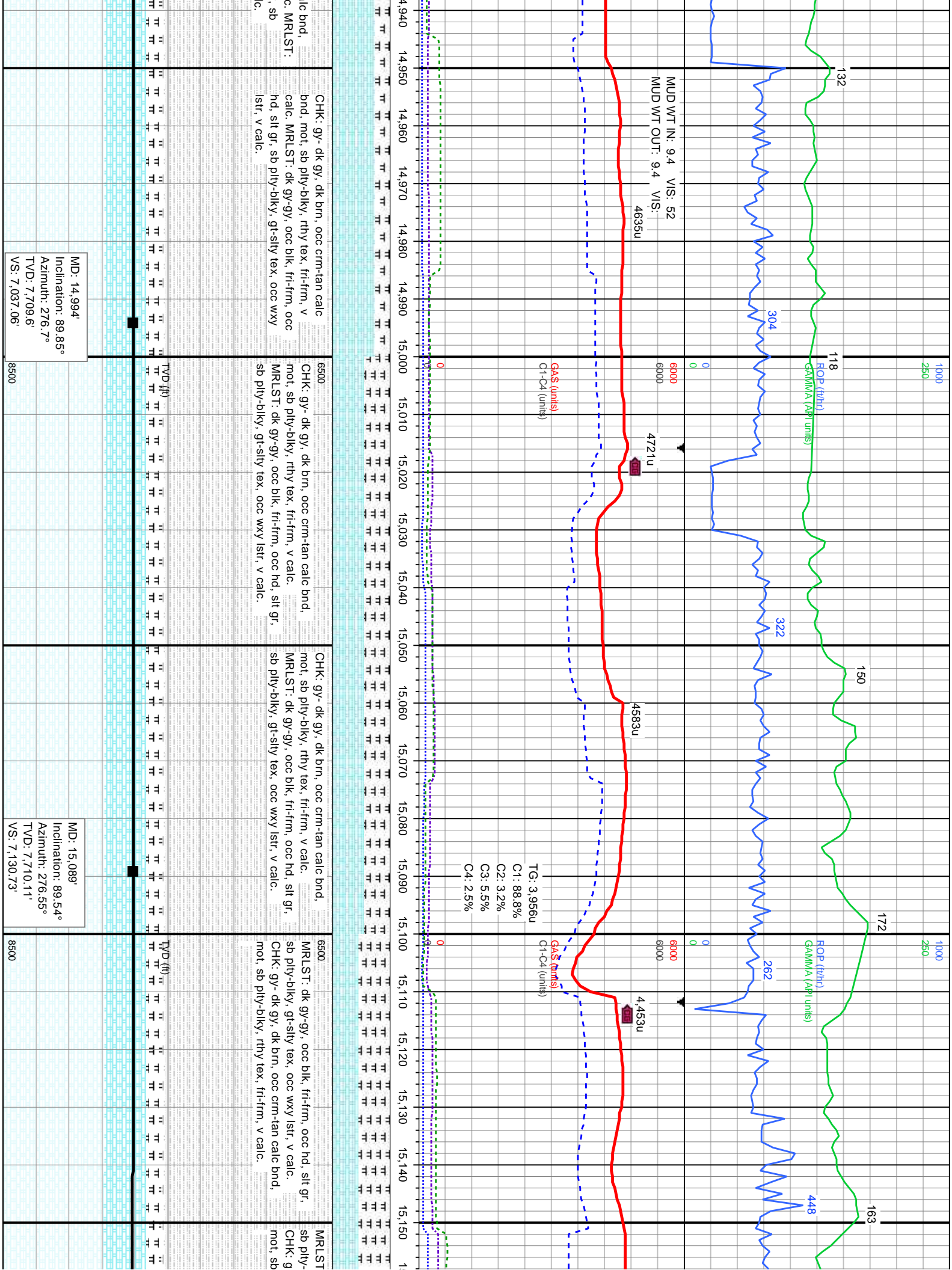


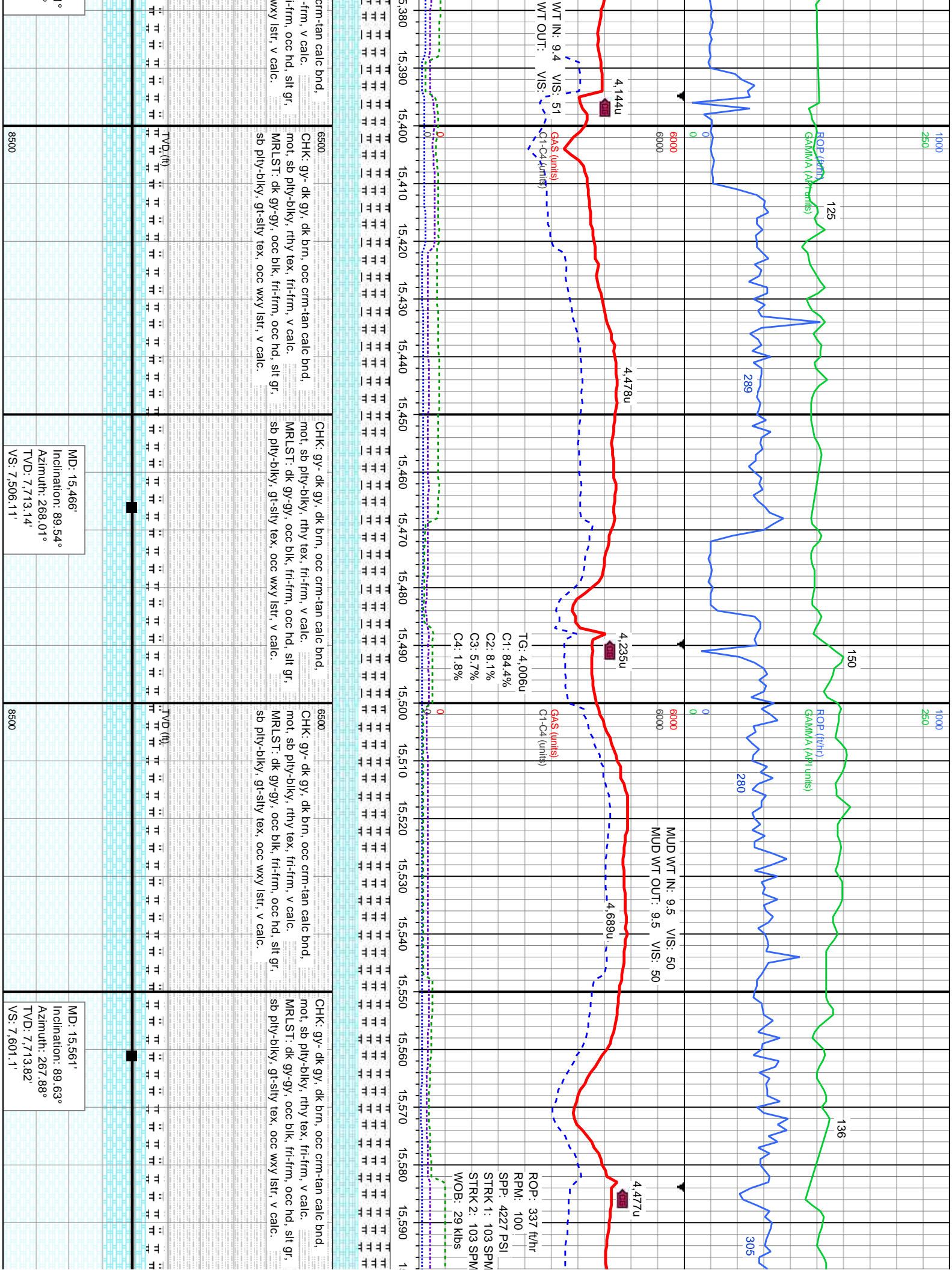


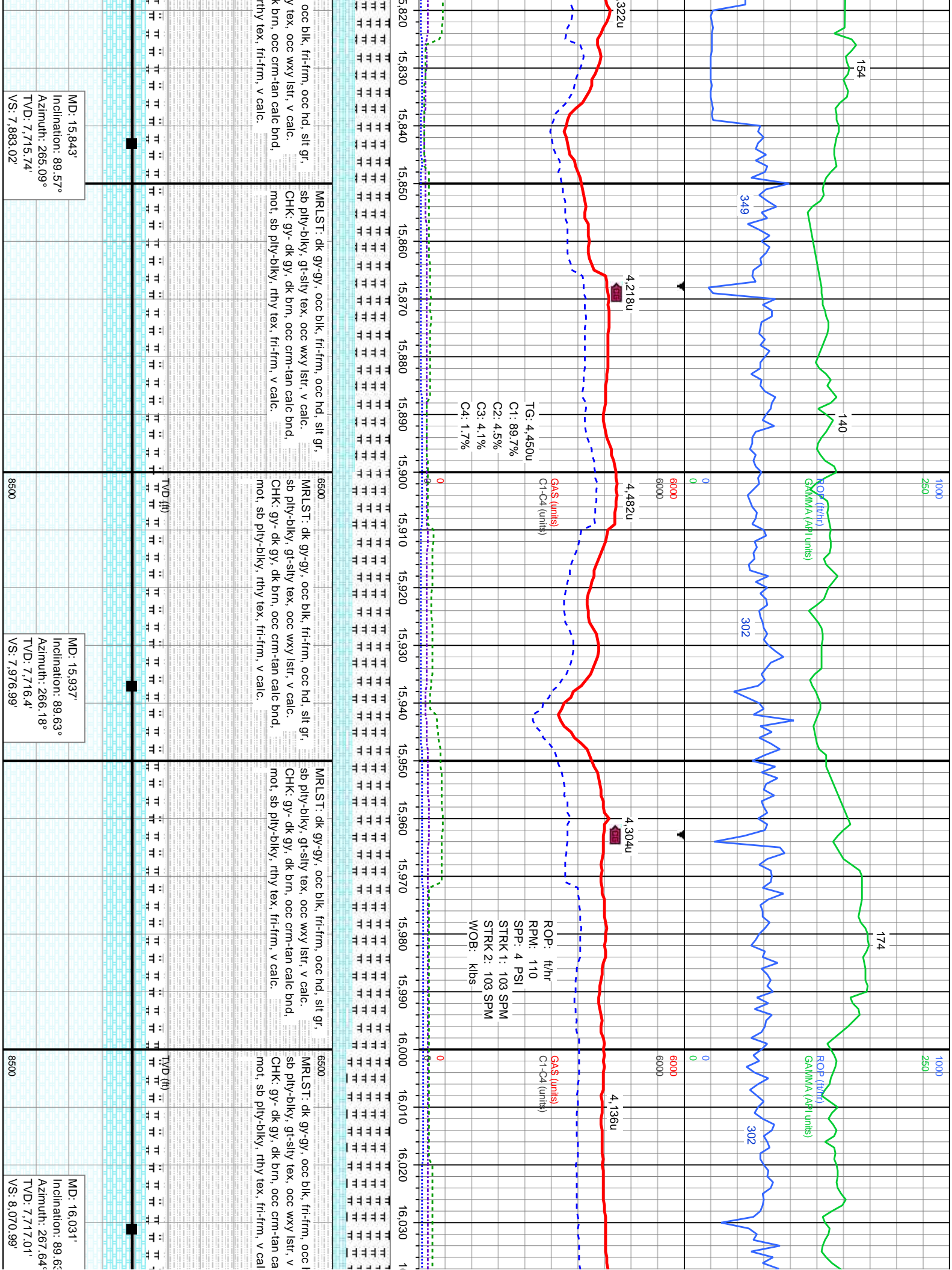


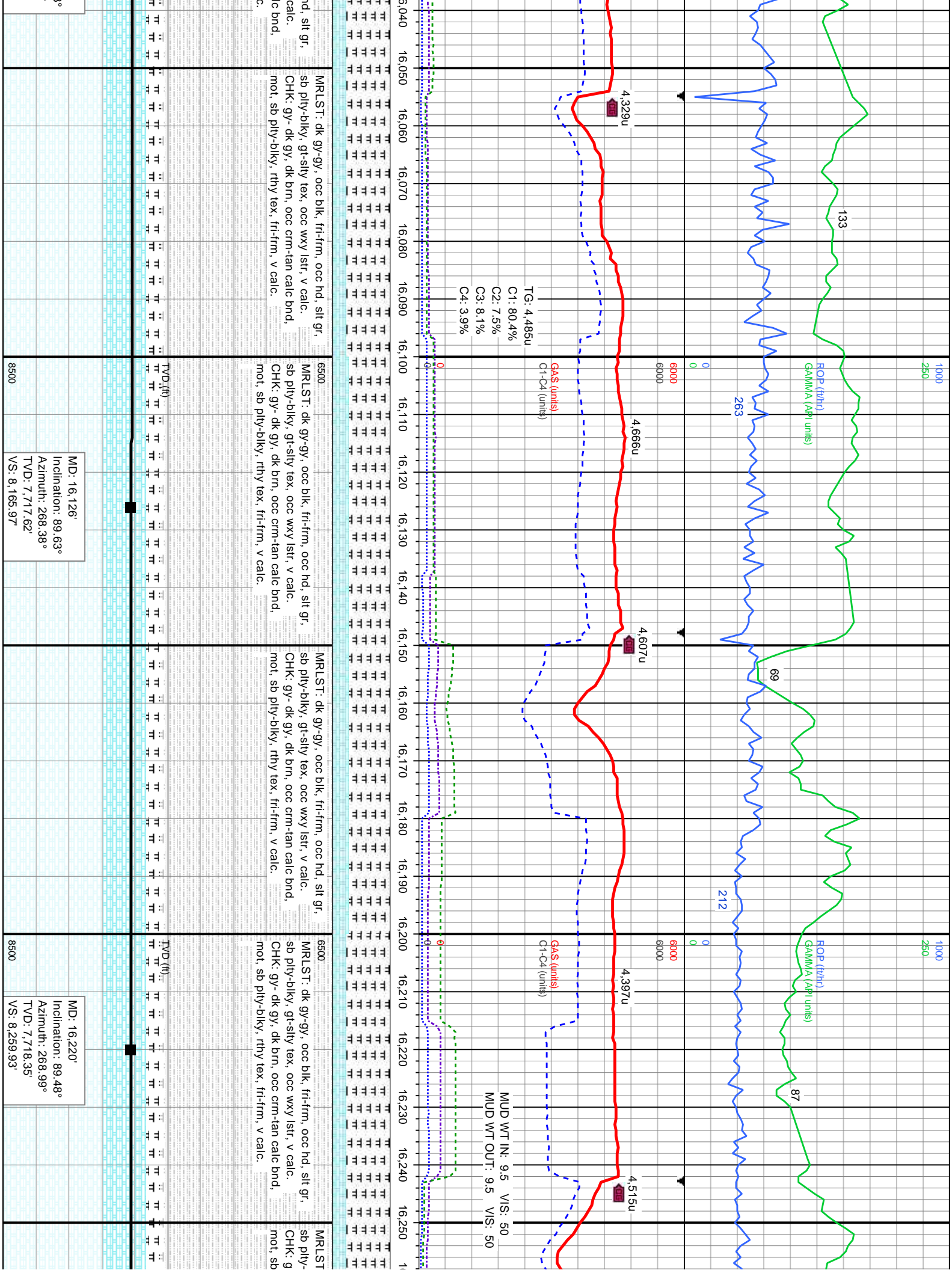


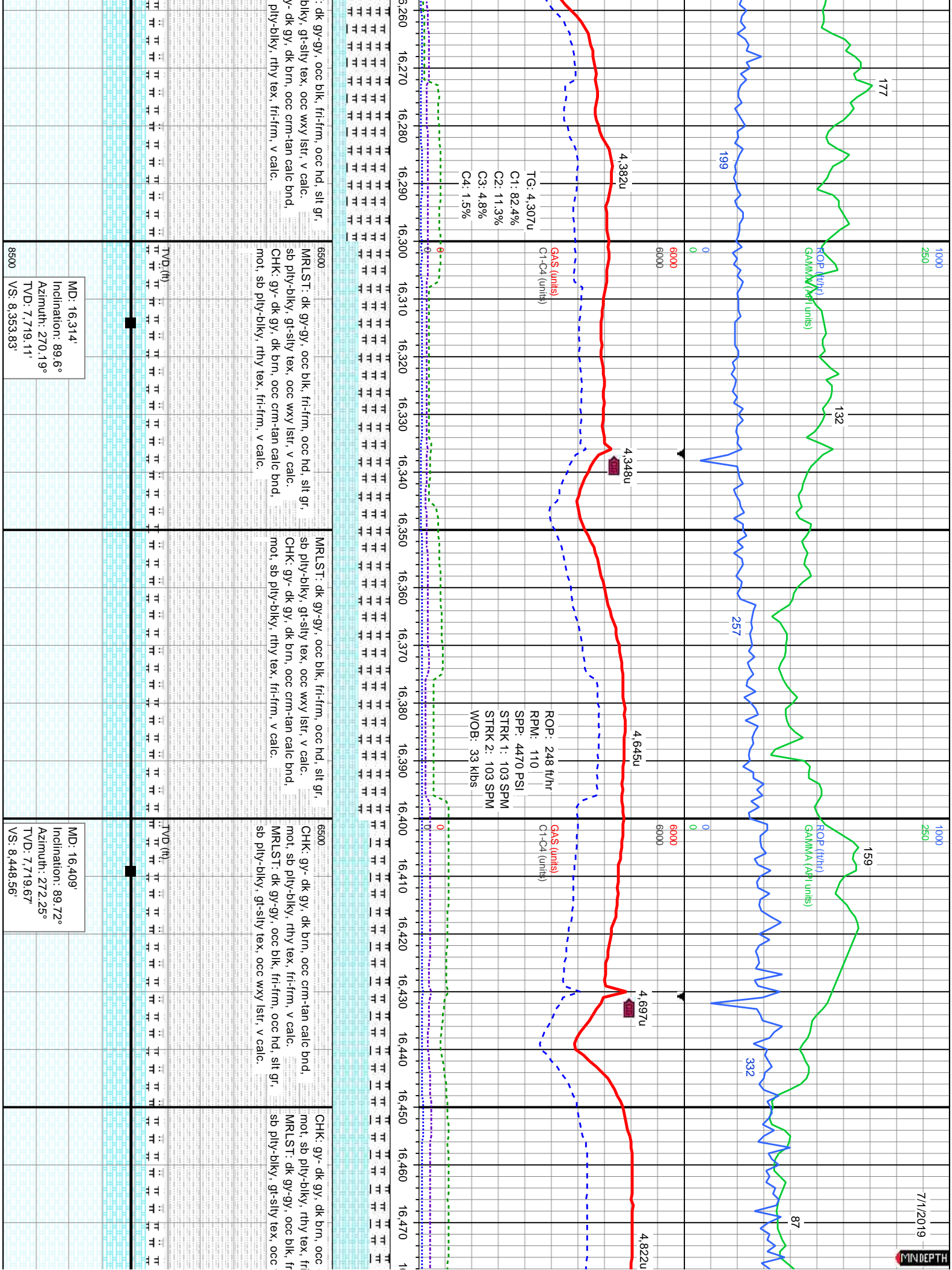


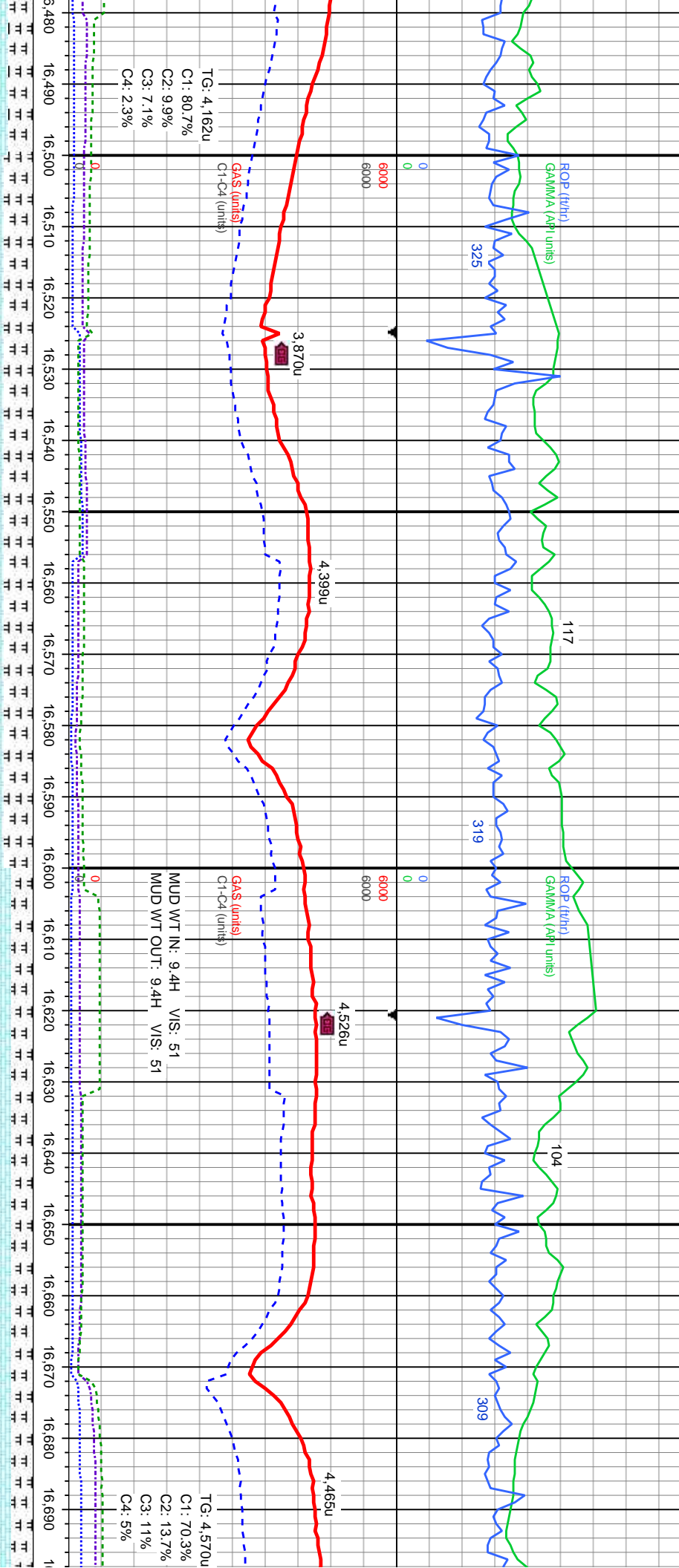












crm-lean calc bnd, fri-frm, v calc.
i-frm, occ hd, sil gr.
wxy list, v calc.

6500
CHK: gy- dk gy, dk brn, occ crm-lean calc bnd, mot, sb pily-biky, rthy tex, fri-frm, v calc.
MRLST: dk gy-gy, occ blk, fri-frm, occ hd, sil gr, sb pily-biky, gr-sily tex, occ wxy list, v calc.

6500
CHK: gy- dk gy, dk brn, occ crm-lean calc bnd, mot, sb pily-biky, rthy tex, fri-frm, v calc.
MRLST: dk gy-gy, occ blk, fri-frm, occ hd, sil gr, sb pily-biky, gr-sily tex, occ wxy list, v calc.

6500
CHK: gy- dk gy, dk brn, occ crm-lean calc bnd, mot, sb pily-biky, rthy tex, fri-frm, v calc.
MRLST: dk gy-gy, occ blk, fri-frm, occ hd, sil gr, sb pily-biky, gr-sily tex, occ wxy list, v calc.

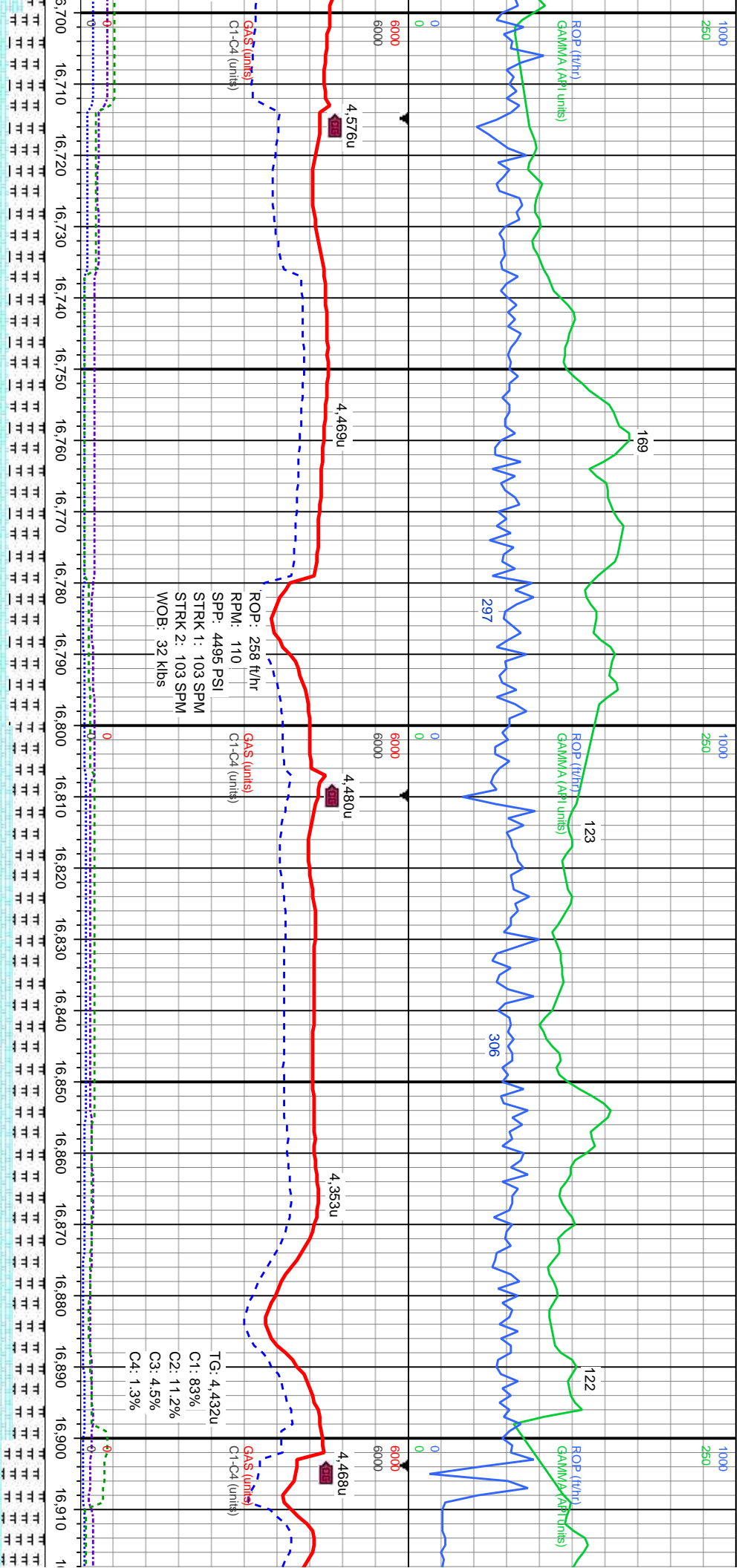
6500
CHK: gy- dk gy, dk brn, occ crm-lean calc bnd, mot, sb pily-biky, rthy tex, fri-frm, v calc.
MRLST: dk gy-gy, occ blk, fri-frm, occ hd, sil gr, sb pily-biky, gr-sily tex, occ wxy list, v calc.



MD: 16,503'
Inclination: 89.57°
Azimuth: 273.46°
TVD: 7,720.25'
VS: 8,542.07'

MD: 16,597'
Inclination: 89.57°
Azimuth: 274.17°
TVD: 7,720.96'
VS: 8,635.41'

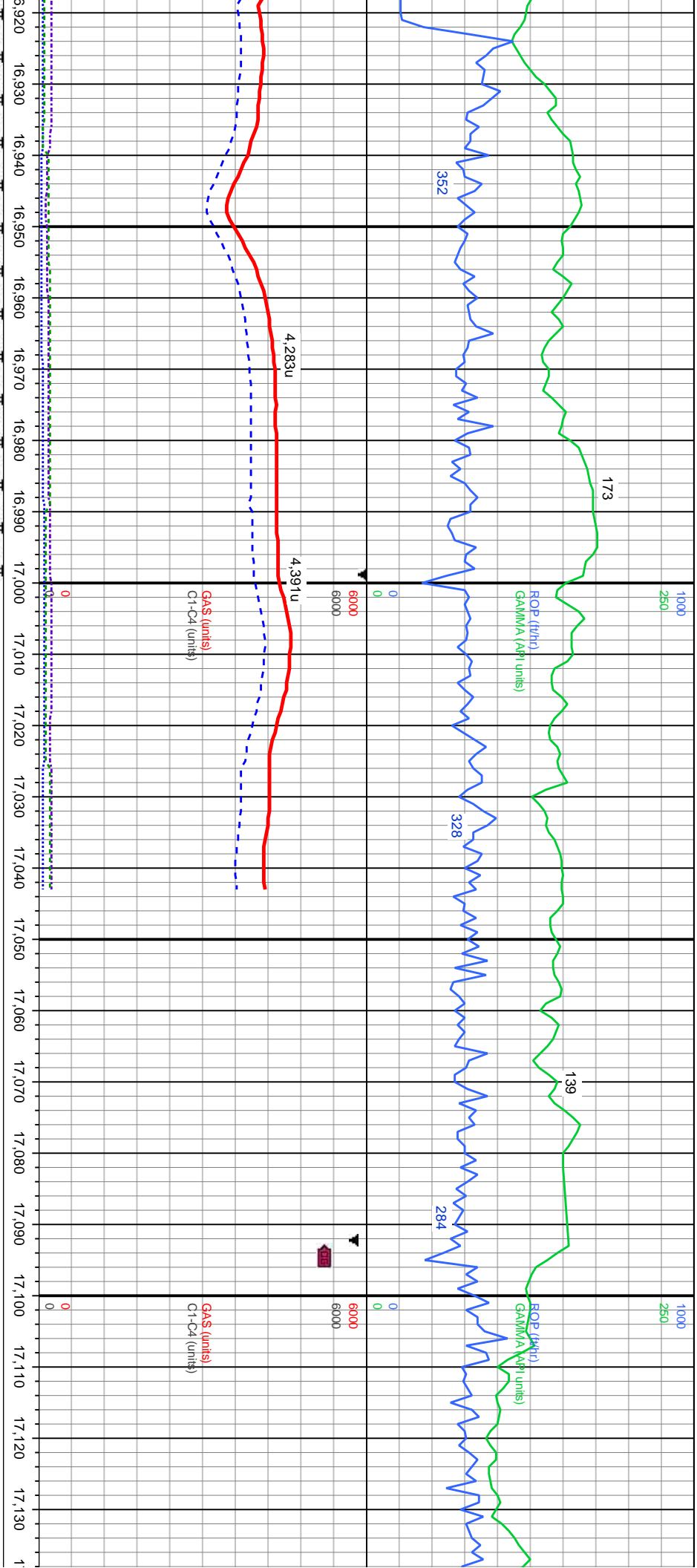
MD: 16,691'
Inclination: 89.63°
Azimuth: 273.2°
TVD: 7,721.61'
VS: 8,728.76'



6500		CHK: gy- dk gy, dk brn, occ crm- tan calc bnd, mot, sb pily-biky, rthy tex, fri-frm, v calc. MRLST: dk gy-gy, occ blk, fri-frm, occ hd, slt gr, sb pily-biky, gr-sily tex, occ wxy lstr, v calc.	6500	CHK: gy- dk gy, dk brn, occ crm- tan calc bnd, mot, sb pily-biky, rthy tex, fri-frm, v calc. MRLST: dk gy-gy, occ blk, fri-frm, occ hd, slt gr, sb pily-biky, gr-sily tex, occ wxy lstr, v calc.	6500	CHK: gy- dk gy, dk brn, occ crm- tan calc bnd, mot, sb pily-biky, rthy tex, fri-frm, v calc. MRLST: dk gy-gy, occ blk, fri-frm, occ hd, slt gr, sb pily-biky, gr-sily tex, occ wxy lstr, v calc.	6500	CHK: gy- dk gy, dk brn, occ crm- tan calc bnd, mot, sb pily-biky, rthy tex, fri-frm, v calc. MRLST: dk gy-gy, occ blk, fri-frm, occ hd, slt gr, sb pily-biky, gr-sily tex, occ wxy lstr, v calc.	6500	CHK: gy- dk gy, dk brn, occ crm- tan calc bnd, mot, sb pily-biky, rthy tex, fri-frm, v calc. MRLST: dk gy-gy, occ blk, fri-frm, occ hd, slt gr, sb pily-biky, gr-sily tex, occ wxy lstr, v calc.
TVD (ft)			TVD (ft)		TVD (ft)		TVD (ft)		TVD (ft)	
8500			8500		8500		8500		8500	

MD: 16,786'
Inclination: 89.63°
Azimuth: 272.51°
TVD: 7,722.23'
VS: 8,823.27'

MD: 16,880'
Inclination: 89.45°
Azimuth: 271.22°
TVD: 7,722.98'
VS: 8,916.93'

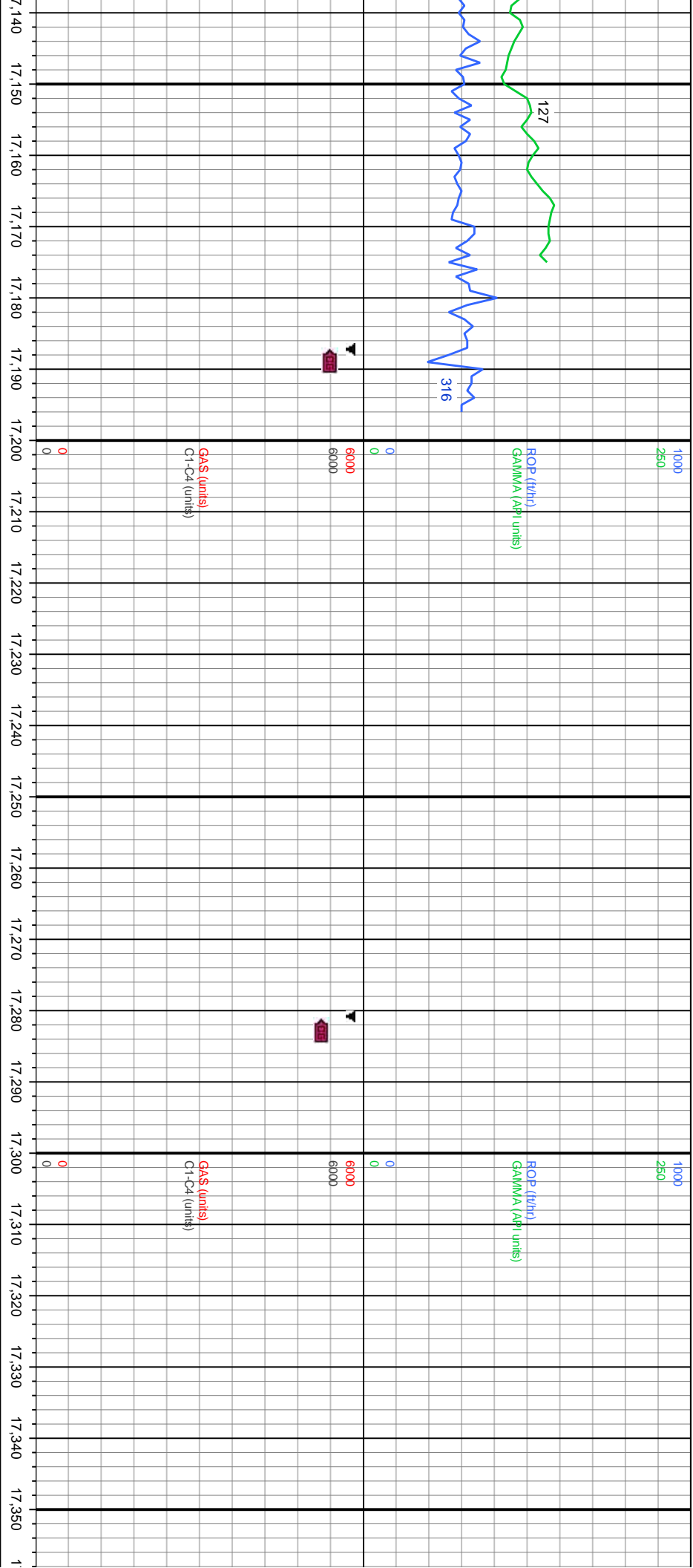


occ blk, fri-frm, occ hd, slt gr,
y tex, occ wxy lstr, v calc.
rk brn, occ crm-tan calc bnd,
rhyth tex, fri-frm, v calc.

MR.LST: dk gy-gy, occ blk, fri-frm, occ hd, sit gy,
sb ply-biky, gt-sily tex, occ wxy lsir, v calc.
CHK: gy- dk gy, dk brn, occ crm-tan calc bnd,
mot, sb ply-biky, rthy tex, fri-frm, v calc.

MD: 16,974'
Inclination: 89.6°
Azimuth: 271.38°
TVD: 7,723.76'
VS: 9,010.66'

MD: 17,069'
Inclination: 89.63°
Azimuth: 272.05°
TVD: 7,724.4'
VS: 9,105.34'



MD: 17,163' Inclination: 89.6° Azimuth: 273.45° TVD: 7,725.03' VS: 9,198.86'									

