



Scale: 5" / 100'
Measured Depth Log

Well Name Burton K25-67-1HN_HORZ

Location Sec. 25 T4N R66W

State Colorado

Country USA

API Number 05-123-38366

Region DJ Basin

Spud Date 11/18/2014

Surface Coordinates 2305 FNL ; 265 FWL
40.28389 ; -104.73394

Bottom Hole Coordinates 1556 FNL ; 535 FEL
40.28637 ; -104.69852

Ground Elevation 4775'

Logged Interval 6437'

Formation Niobrara C chalk

Type of Drilling Fluid FW LSND

County Weld

Rig Number PD 829

Field Wattenberg

Drilling Completed 11/28/2014

K.B. Elevation 4791'

Total Depth 16779'

Company Noble Energy Inc
Address 1625 Broadway,
Denver, CO 802

Name Holly Duncan
Company Noble Energy, Inc
Address 1625 BROADWAY,
DENVER, CO 802

Columbine Logging, Inc.
Well Site Geologists

Operator

Suite 2200
02

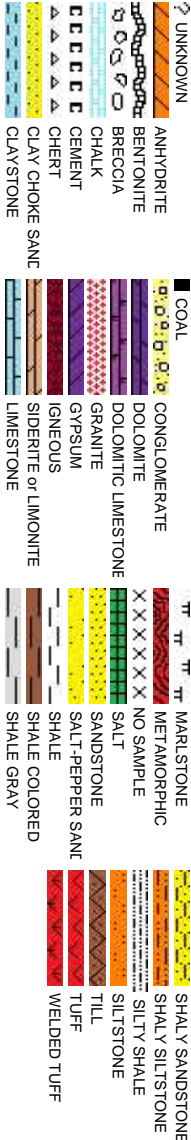
Geologist

Other

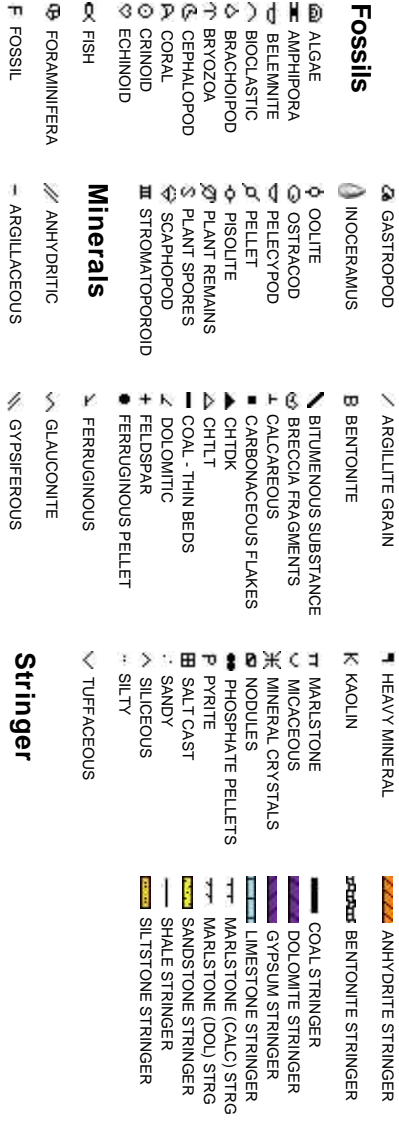
2385 S. Lipan St.
Denver, CO 80223

Ryan Shilling
Ted Stockwell
Jakob Pammer

Rock Types



Accessories



Stringer

Other Symbols

Oil Show	P PINPOINT V VUGGY	DST INTERVAL FAULT	WIRELINE TESTED - LEFT WIRELINE TESTED - RT	E EARTHY FX FINELYXLN
D DEAD	Engineering	FORMATION TOP	DRILL STEM TEST	GS GRAINSTONE
● EVEN	BIT	GAS SHOW OIL SHOW	MNDEPTH MN DEPTH	L LITHOGRAPHIC MX MICROXLN
○ QUESTIONABLE	SPOTTED STAINING	MNDEPTH UP	Rounding	MS MUDSTONE
● SPOTTED STAINING	▲ CONNECTION (UP)	MNDEPTH (DOWN)	▲ ANGULAR	PS PACKSTONE
Porosity	▼ CONNECTION (DOWN)	NORMAL FAULT OVERTURNED STRATA	R ROUNDED B SUBANG	WS WACKESTONE
E EARTHY	CONNECTION GAS CONNECTION GAS (LEFT)	REVERSE FAULT	I SUBRND	Sorting
B FENESTRAL	TRIP GAS TRIP GAS (LEFT)	CASING	Textures	M MODERATE
F FRACTURE	INTERCRYSTALLINE	SIDEWALL CORE (LEFT)	BS BOUNDSTONE	P POOR
● INTEROOLITIC	DOWN TIME GAS DOWN TIME GAS (LEFT)	SIDEWALL CORE (RIGHT)	CHALKY	W WELL
● MOLDIC	CORE - LOST	SLIDE	CRYPTOXLN	
○ ORGANIC	CORE - RECOVERED	SURVEY		

Slide/Rotate

ROP Scale
0-800 ft/hr

ROP
ROF
GAMMA

Gamma Scale
0 - 200 API

Total Gas & Chromatograph

GAS

C1
C2
C3
C4

Depth Labels

% Lith

TVD SCALE
6300' -7300'

Well Bore
TVD

Bit Data
Bit #: 2
Type: SDI 519
Size: 8.75
Depth In: 674 '
Depth Out: 7,482 '
Jets: 7x16
S/N: JJB500

Log Continued from Burton K25-67-1HN

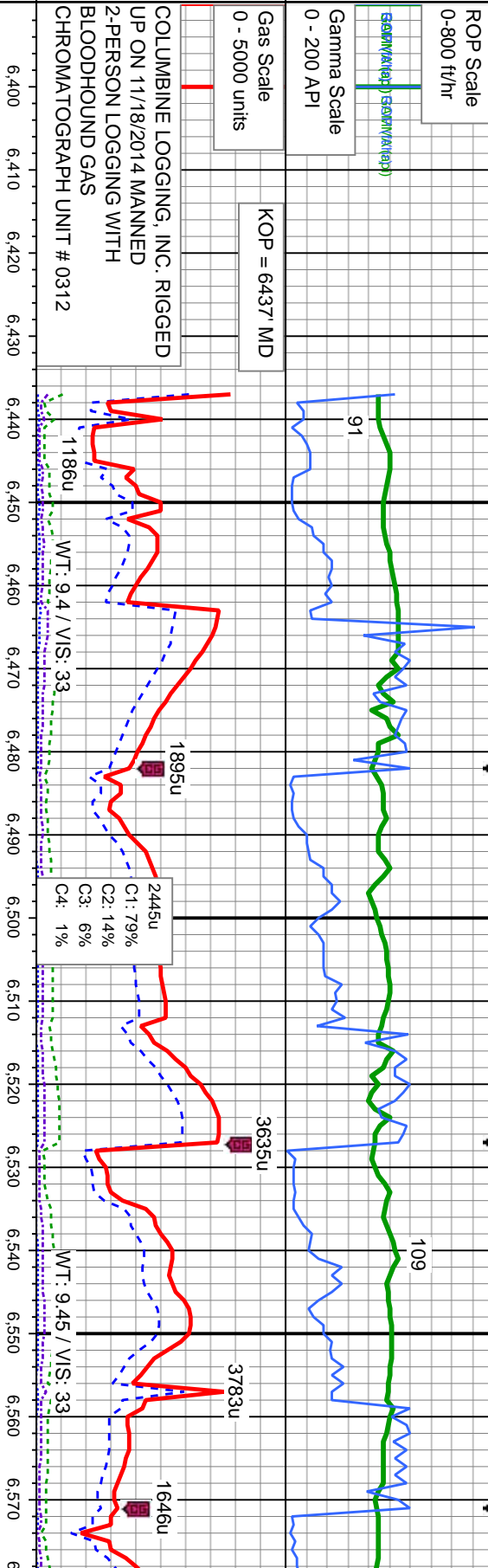
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biky, vtr gr, silty tex, sl calc, tr shly ss, vtr ss

100% SLTY SH: lt-med gy, occ dk gy, sft-sl frm, sb
ply-sb biky, vtr gr, silty tex, sl calc, tr shly ss, vtr ss

100% SLTY SH: lt-med gy, occ dk gy, sft-sl frm, sb
ply-sb biky, vtr gr, silty tex, sl calc, tr shly ss, vtr ss

exc
gd
mod
fr
tr
sl

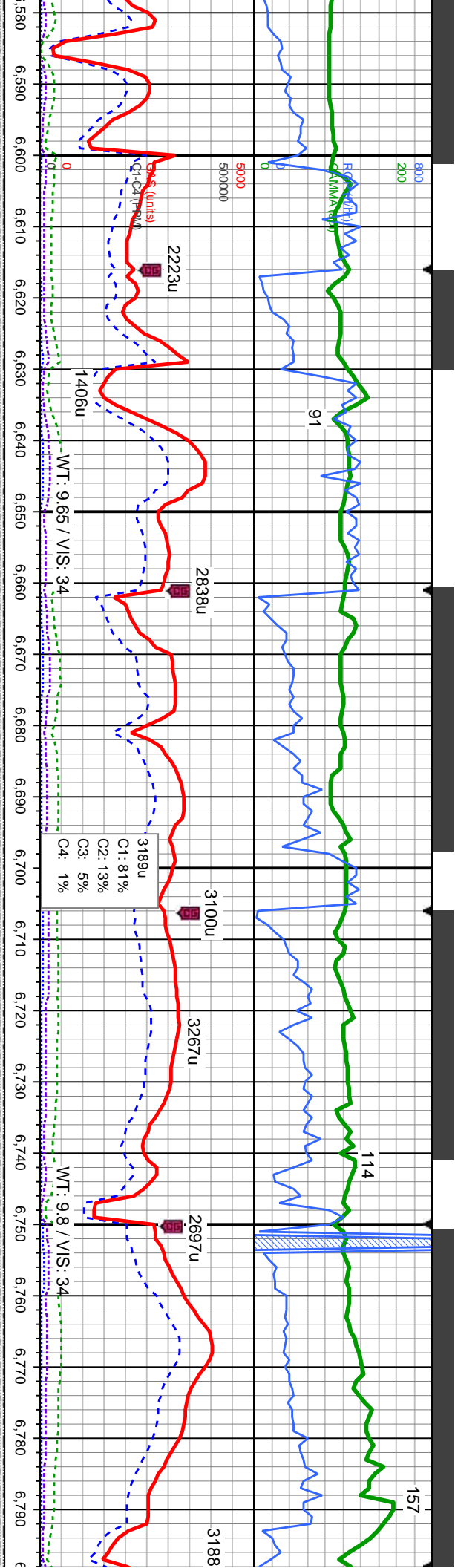
Oil Show



MD: 6,474
TVD: 6,425.82
Inclination: 12.7
Azimuth: 9.3
VS: 61.9

MD: 6,519
TVD: 6,469.68
Inclination: 13.3
Azimuth: 25.2
VS: 65.85

MD: 6,563
TVD: 6,512.51
Inclination: 13.4
Azimuth: 45.2
VS: 72.41

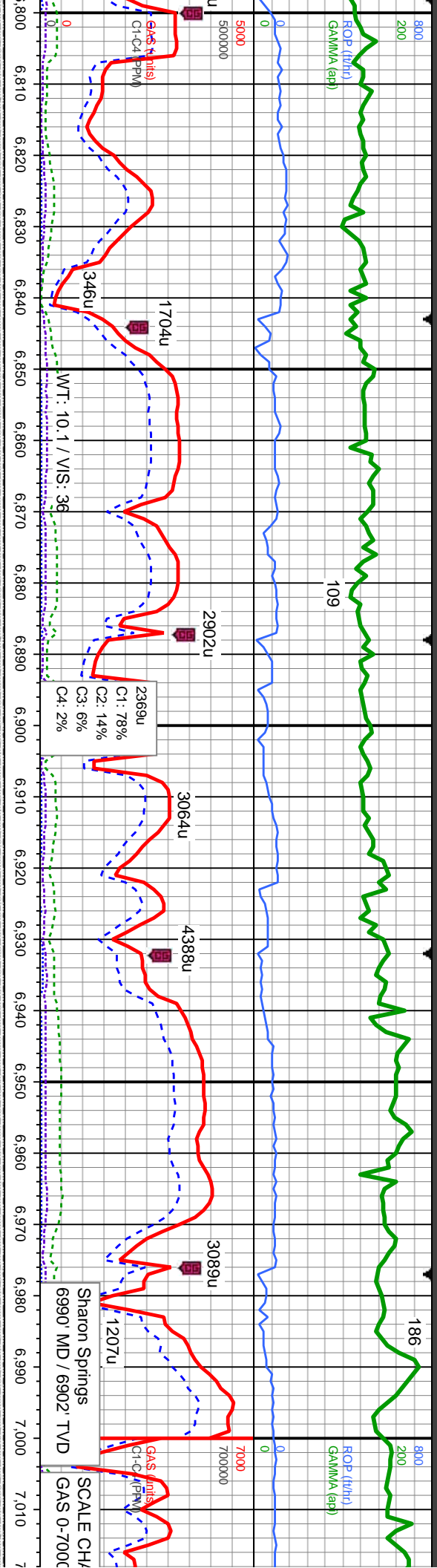


100% SLTY SH: lt-med gy, occ dk gy, sft-sl frm, sb
ply-sb blk, vf gr, silty tex, sl calc, tr shy ss, v tr ss

100% SLTY SH: lt-med gy, occ dk gy, sft-sl frm, sb
ply-sb blk, vf gr, silty tex, sl calc, tr shy ss

100% SLTY SH: lt-med gy, occ dk gy, sft-sl frm, sb
ply-sb blk, vf gr, silty tex, sl calc, tr shy ss

100% SLTY SH: lt-med gy, occ dk gy, sft-sl frm, sb
ply-sb blk, vf gr, silty tex, sl calc, tr shy ss



100% SLTY SH: lt-med gy, occ dk gy, sft-sl frm, sb
ply-sb blk'y, vf gr, silty tex, sl calc, tr shty ss

100% SLTY SH: lt-med gy, occ dk gy, sft-sl frm, sb
ply-sb blk'y, vf gr, silty tex, sl calc, tr shty ss

100% SLTY SH: lt-med gy, occ dk gy, sft-sl frm, sb
ply-sb blk'y, vf gr, silty tex, sl calc, tr shty ss

100% SLTY SH: lt-med gy, occ dk gy, sft-sl frm, sb
ply-sb blk'y, vf gr, silty tex, sl calc, occ bent

100-40% SLTY SH
sb ply-sb blk'y, vf g
MRLST: med-dk gy
silty-mot tex, calc

MD: 6,832
TVD: 6,768.65
Inclination: 25.8
Azimuth: 75
VS: 148.17

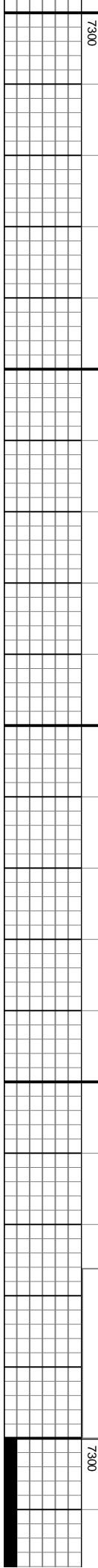
MD: 6,877
TVD: 6,808.52
Inclination: 29.4
Azimuth: 75.5
VS: 168.76

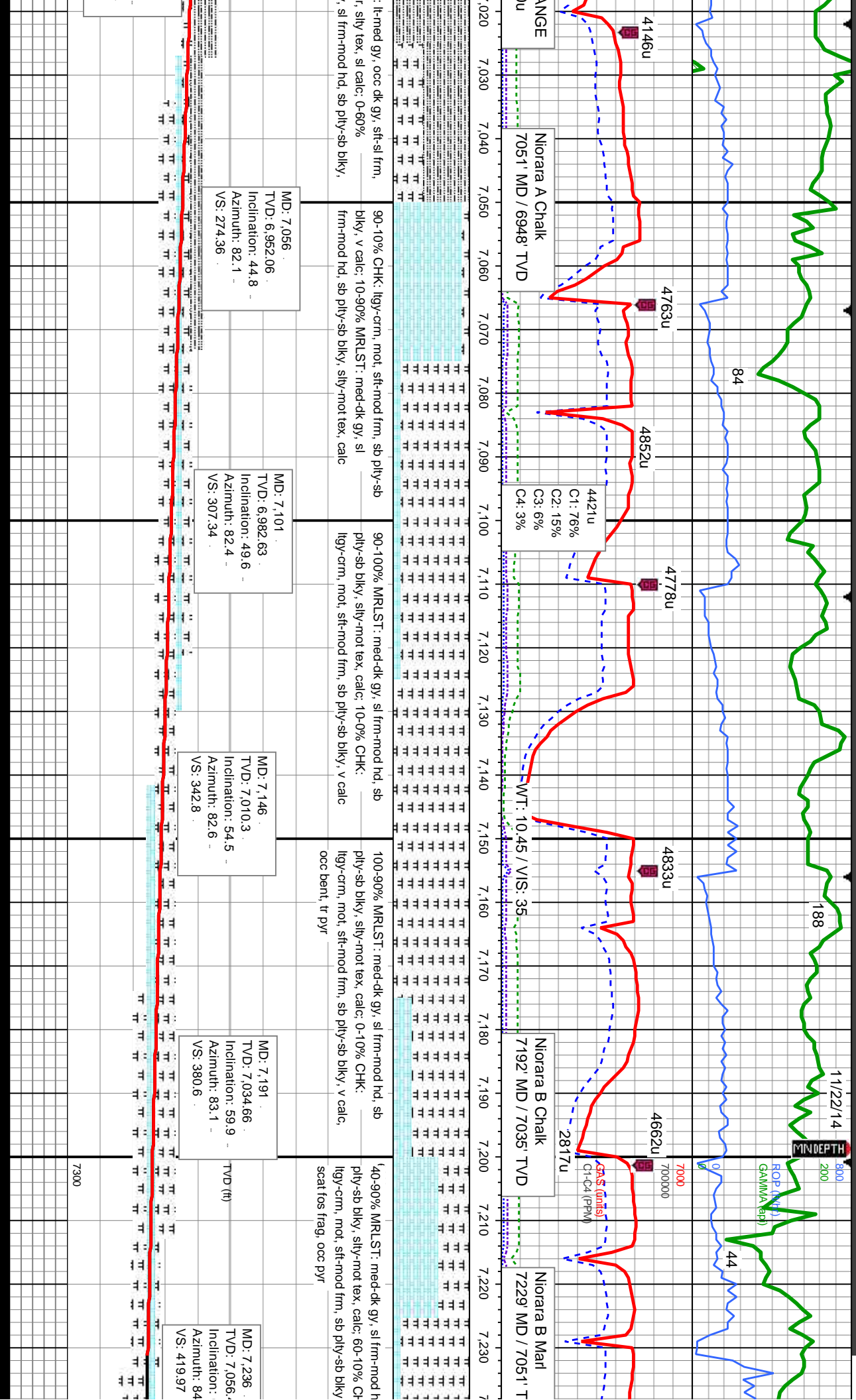
MD: 6,922
TVD: 6,847.05
Inclination: 32.8
Azimuth: 76.4
VS: 191.76

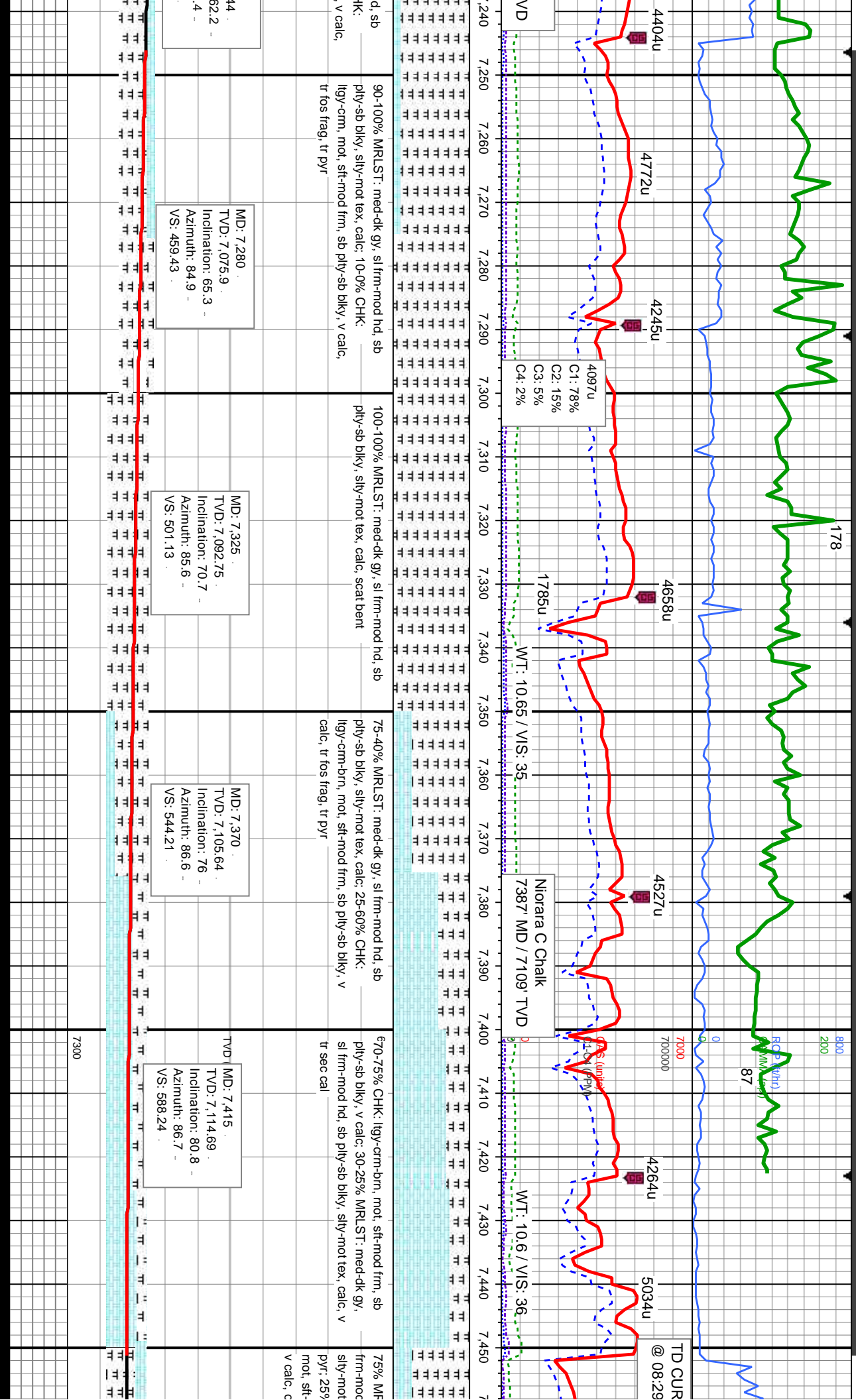
MD: 6,967
TVD: 6,884.18
Inclination: 36
Azimuth: 79.6
VS: 217.02

OIL SHOWS BEGIN

MD: 7,011
TVD: 6,918.84
Inclination: 40
Azimuth: 81.6
VS: 244.05







11/23-24/14

MINDEPTH

125

ROP (ft/hr)

GAMMA (api)

74

VE ON 11/22/14

DRILLED OUT ON
11/24/14 @ 08:12 MST

3022u

1560u

C1: 80%

C2: 14%

C3: 4%

C4: 2%

3647u

4713u

4843u

4848u

1610u

WT: 9.2 / VIS: 37

WT: 9.25 / VIS: 35

GAS (units)

G-FCM (PPM)



90% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc, 5% CHK: ilgy-crm-brn, mot, sft-mod frm, sb ply-sb blkly, v calc, 5% CMT, tr inoc, v tr lse foss

90% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc, 10% CHK: ilgy-crm-brn, mot, sft-mod frm, sb ply-sb blkly, v calc, tr cmt, v tr sec cal

65% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc, 35% CHK: ilgy-crm-brn, mot, sft-mod frm, sb ply-sb blkly, v calc

70% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc, 30% CHK: ilgy-crm-brn, mot, sft-mod frm, sb ply-sb blkly, v calc, tr inoc

mod frm, sb ply-sb blkly, calc bent, tr lse foss

Bit Data
Bit #: 3
Type: SDI 518
Size: 6.12

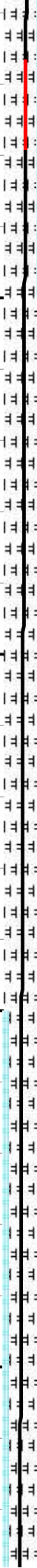
MD: 7.482
TVD: 7.122.97
Inclination: 85
Azimuth: 86.8
VS: 654.64

MD: 7.508
TVD: 7.125.11
Inclination: 85.56
Azimuth: 86.49
VS: 680.53

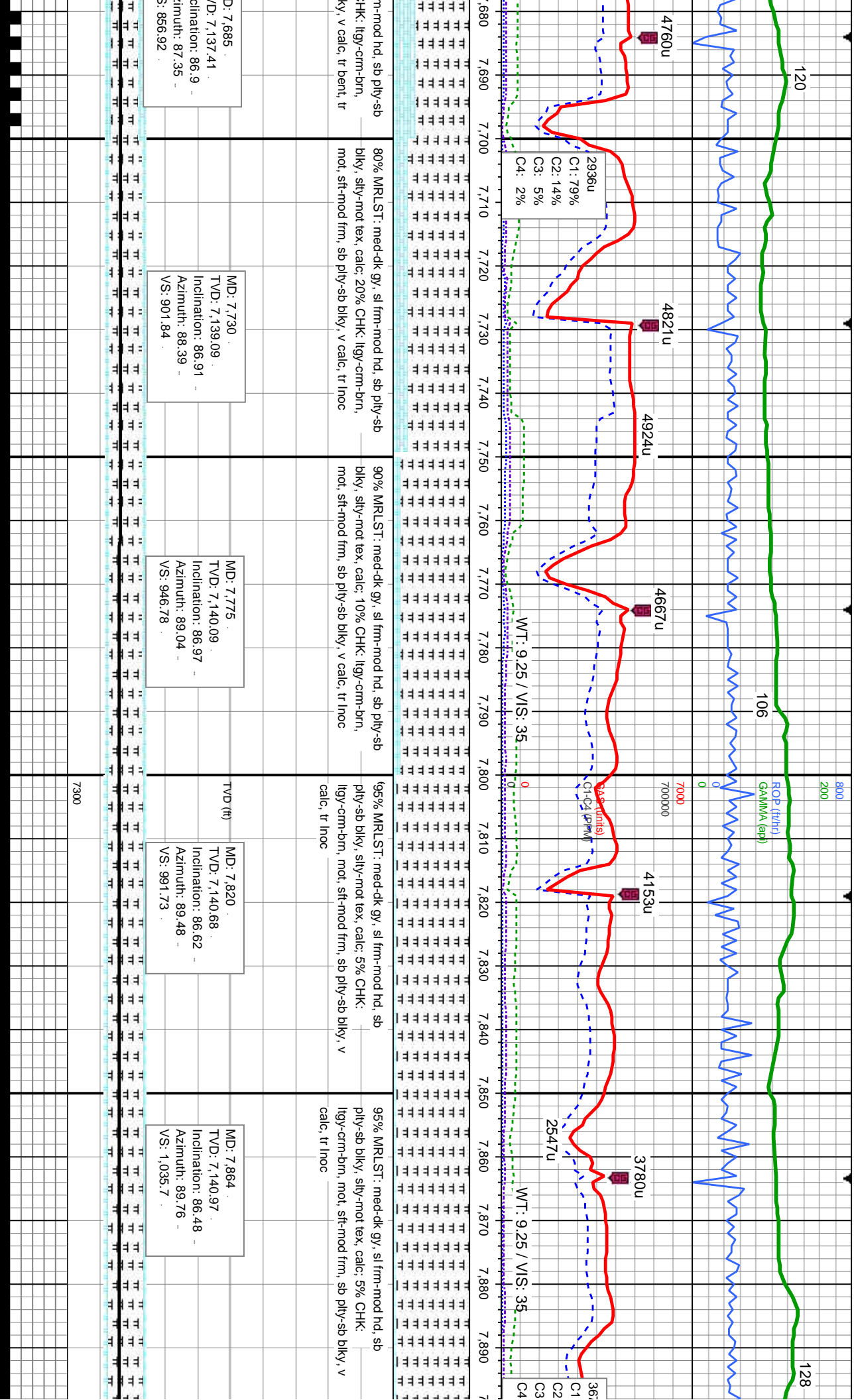
MD: 7.553
TVD: 7.128.63
Inclination: 85.46
Azimuth: 87
VS: 725.35

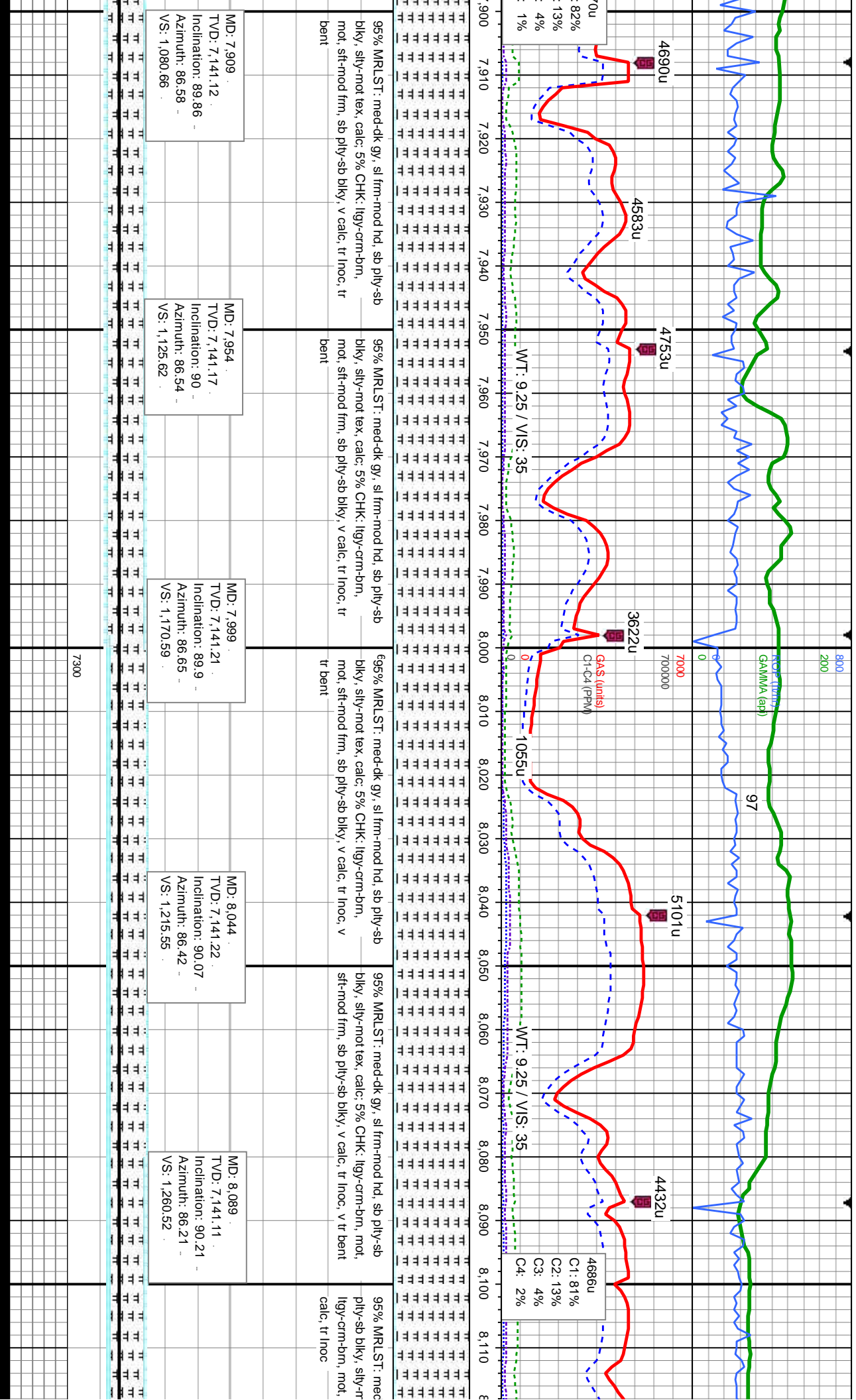
MD: 7.596
TVD: 7.131.96
Inclination: 86.84
Azimuth: 85.66
VS: 768.18

MD: 7.640
TVD: 7.134.98
Inclination: 86.84
Azimuth: 86.46
VS: 812.03



7300





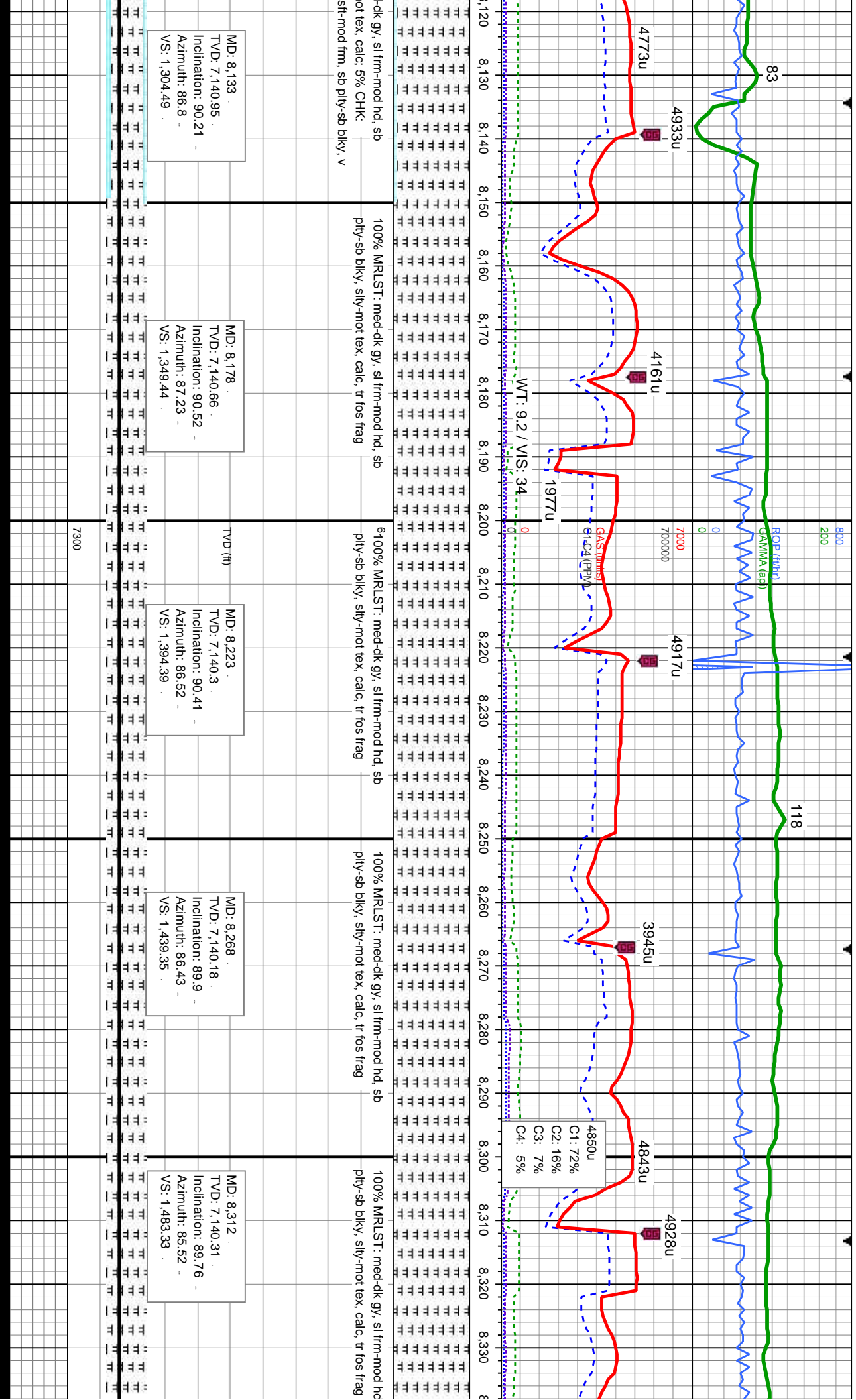
MD: 7.909
TVD: 7,141.12
Inclination: 89.86
Azimuth: 86.58
VS: 1,080.66

MD: 7.954
TVD: 7,141.17
Inclination: 90
Azimuth: 86.54
VS: 1,125.62

MD: 7.999
TVD: 7,141.21
Inclination: 89.9
Azimuth: 86.65
VS: 1,170.59

MD: 8.044
TVD: 7,141.22
Inclination: 90.07
Azimuth: 86.42
VS: 1,215.55

MD: 8.089
TVD: 7,141.11
Inclination: 90.21
Azimuth: 86.21
VS: 1,260.52



100% MRLST: med-dk gy, sl frm-mod hd, sb
ply-sb blkly, silty-mot tex, calc, tr fos frag

6100% MRLST: med-dk gy, sl frm-mod hd, sb
ply-sb blkly, silty-mot tex, calc, tr fos frag

100% MRLST: med-dk gy, sl frm-mod hd, sb
ply-sb blkly, silty-mot tex, calc, tr fos frag

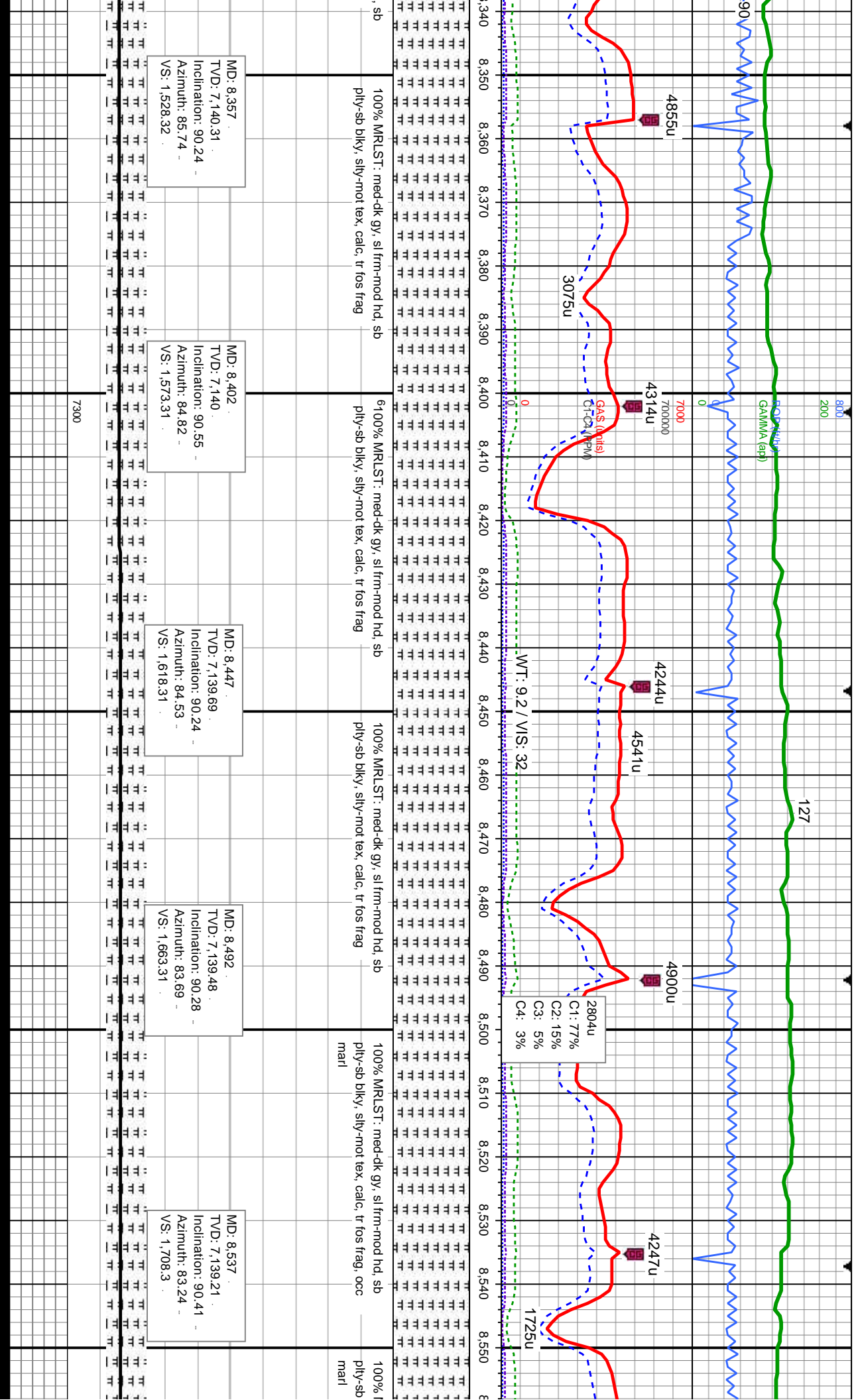
100% MRLST: med-dk gy, sl frm-mod hd, sb
ply-sb blkly, silty-mot tex, calc, tr fos frag

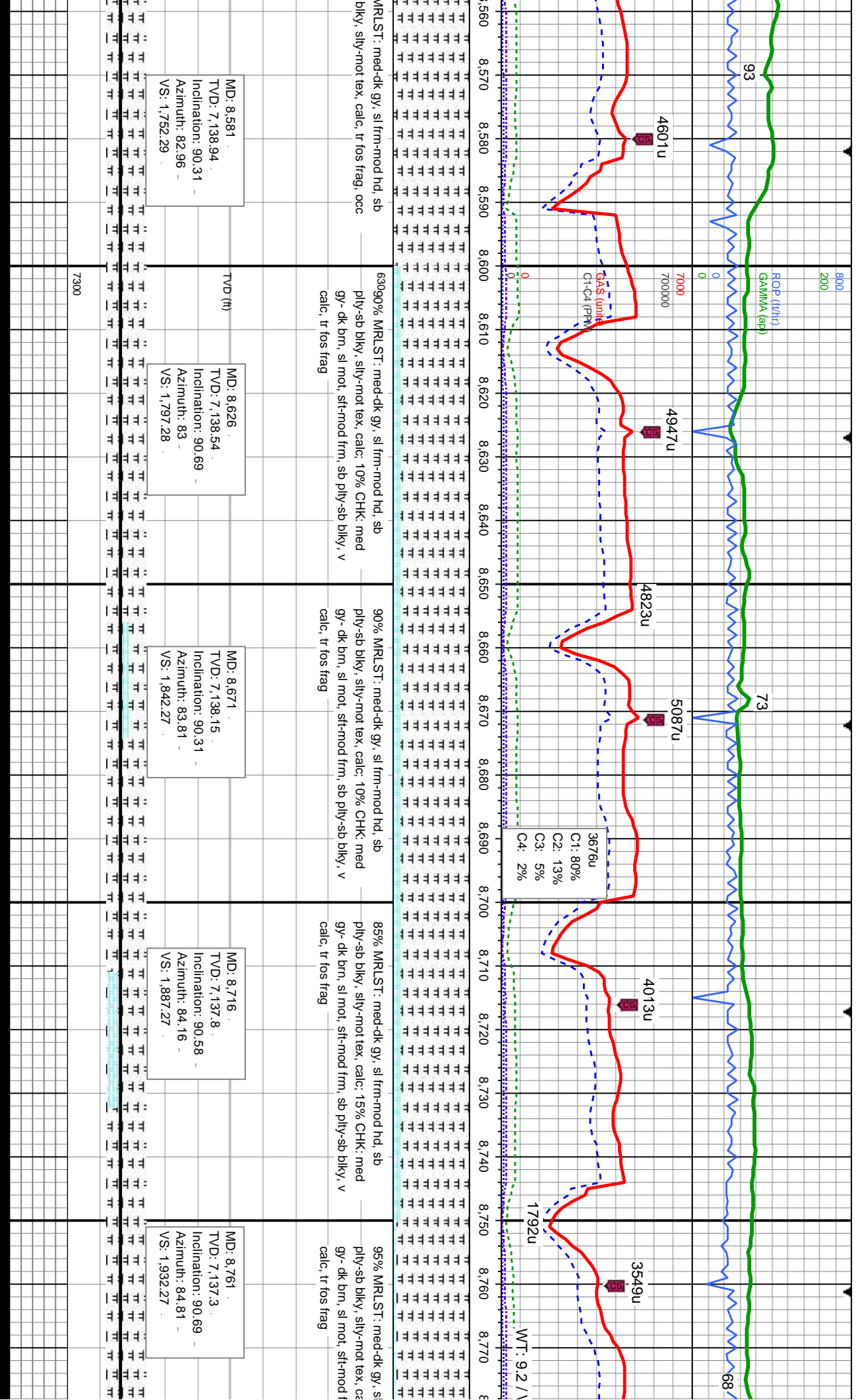
100% MRLST: med-dk gy, sl frm-mod hd
ply-sb blkly, silty-mot tex, calc, tr fos frag

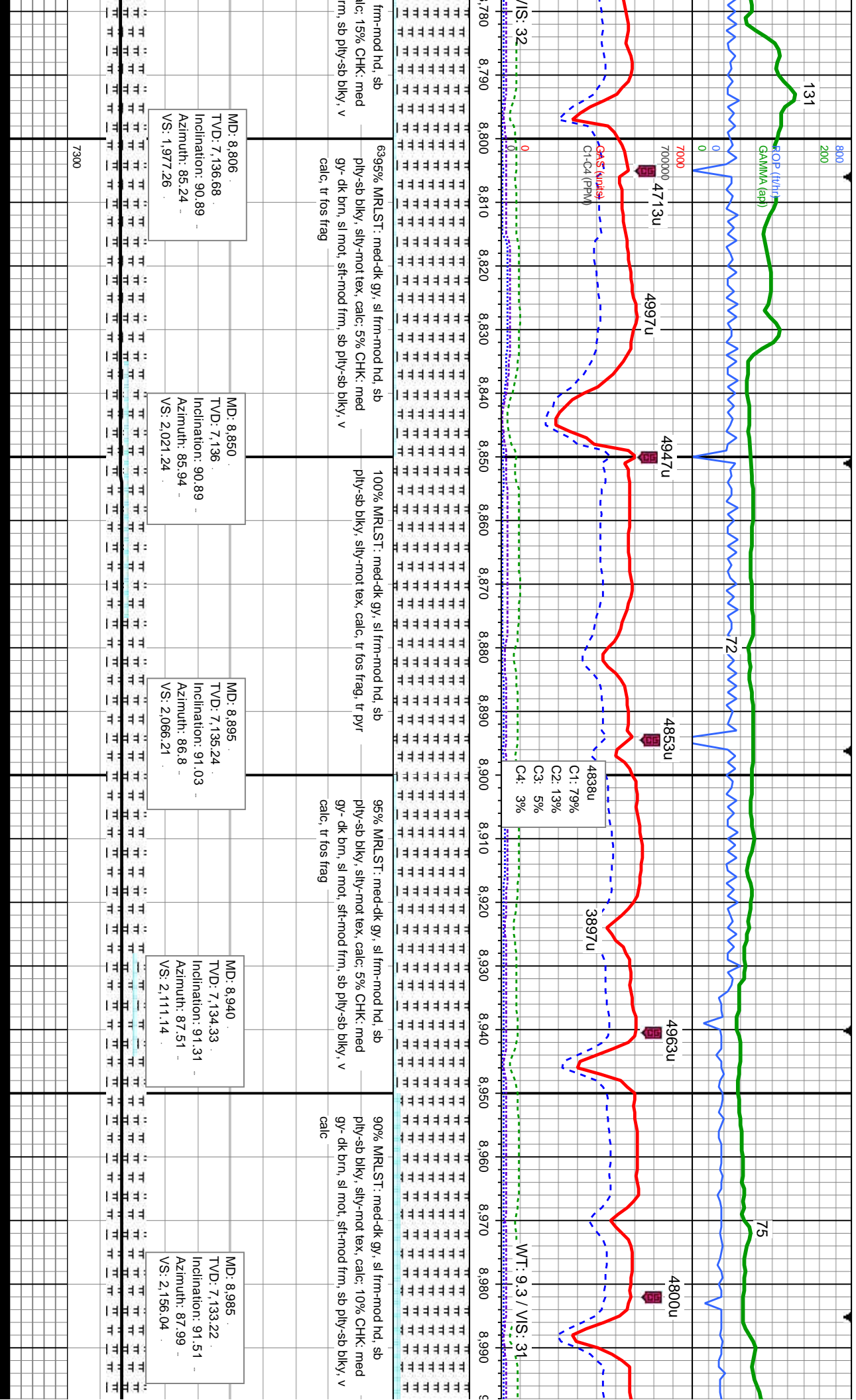
WT: 9.2 / VS: 34

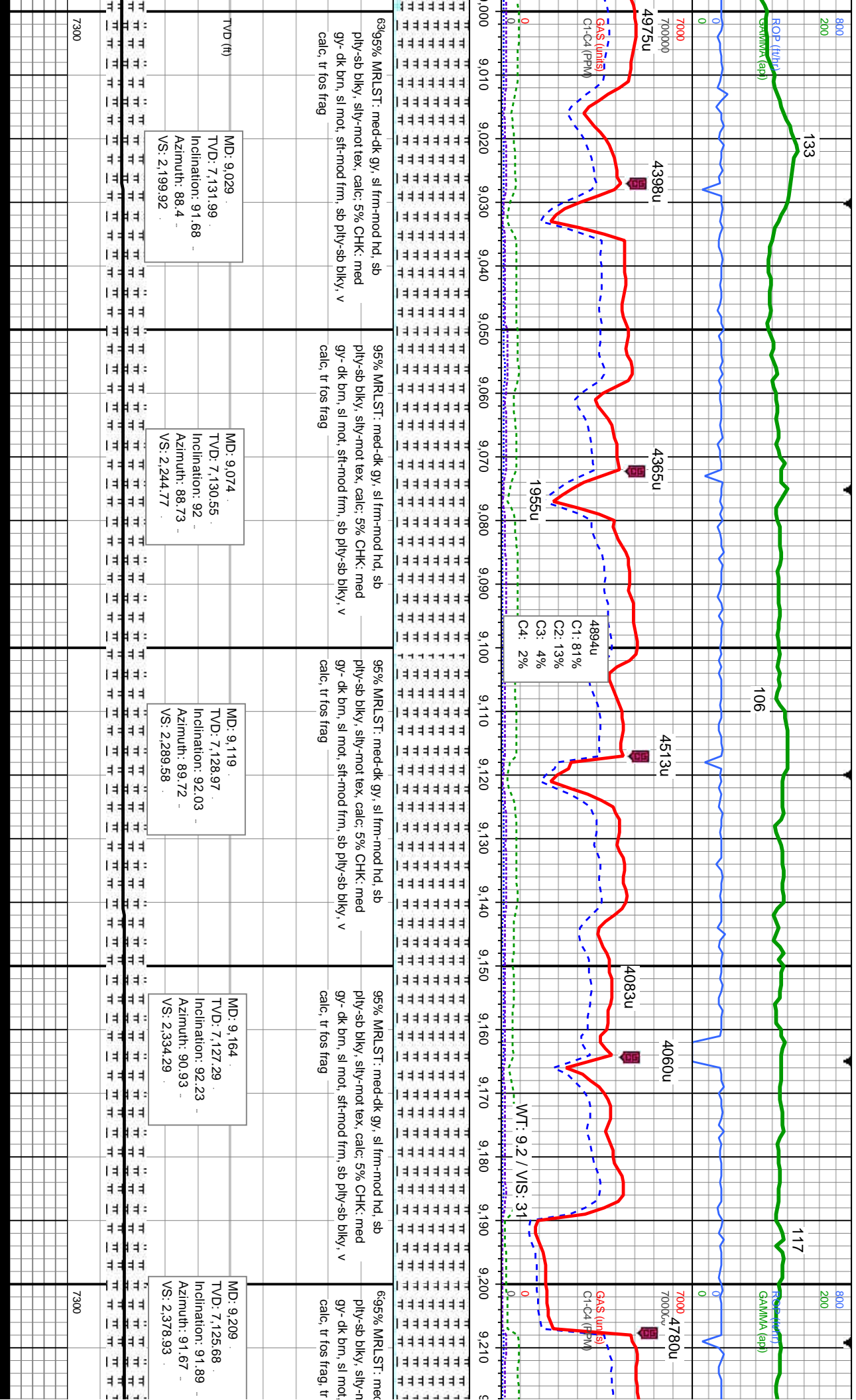
GAS (umms)
GIC (cpm)

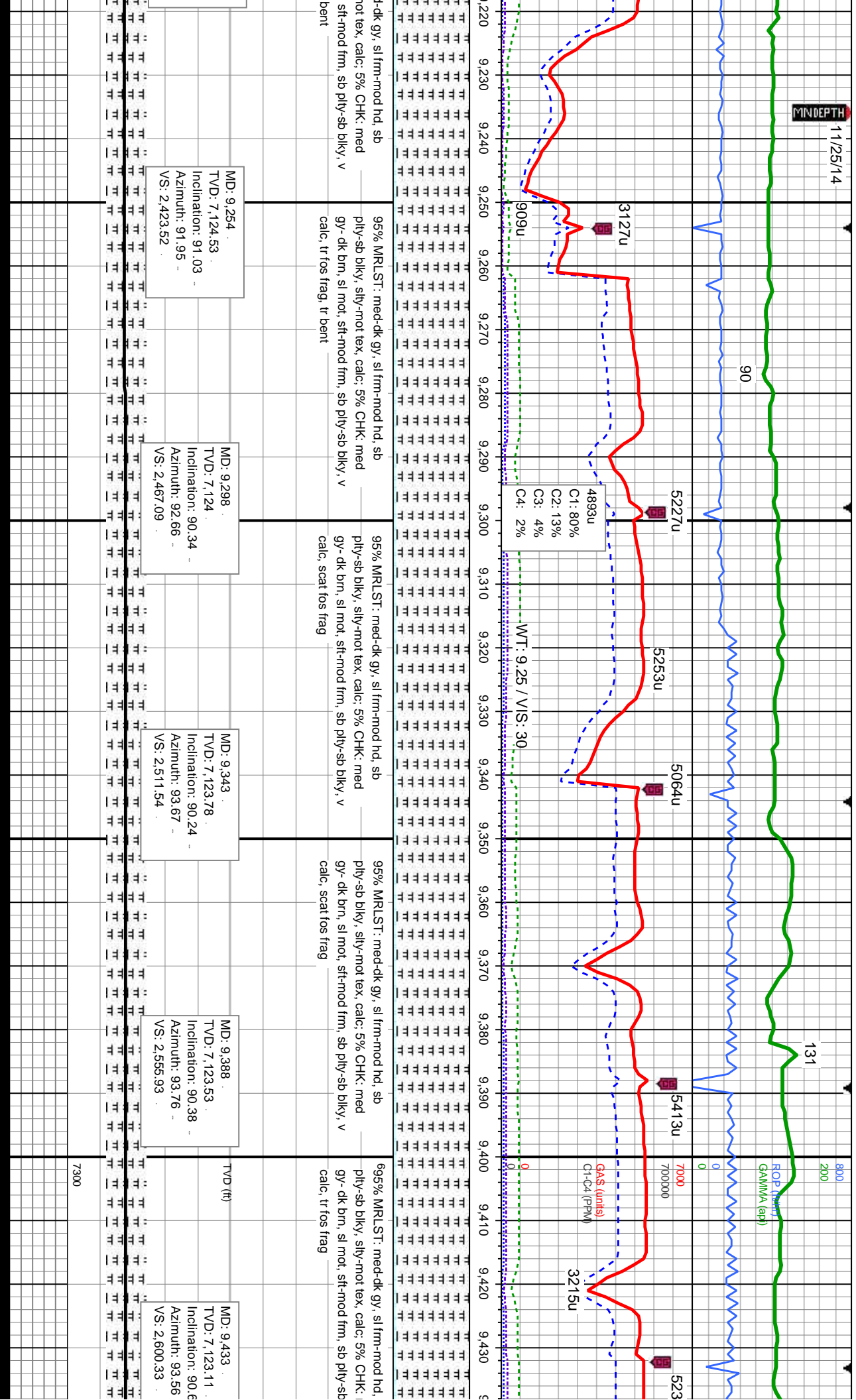
C1: 72%
C2: 16%
C3: 7%
C4: 5%

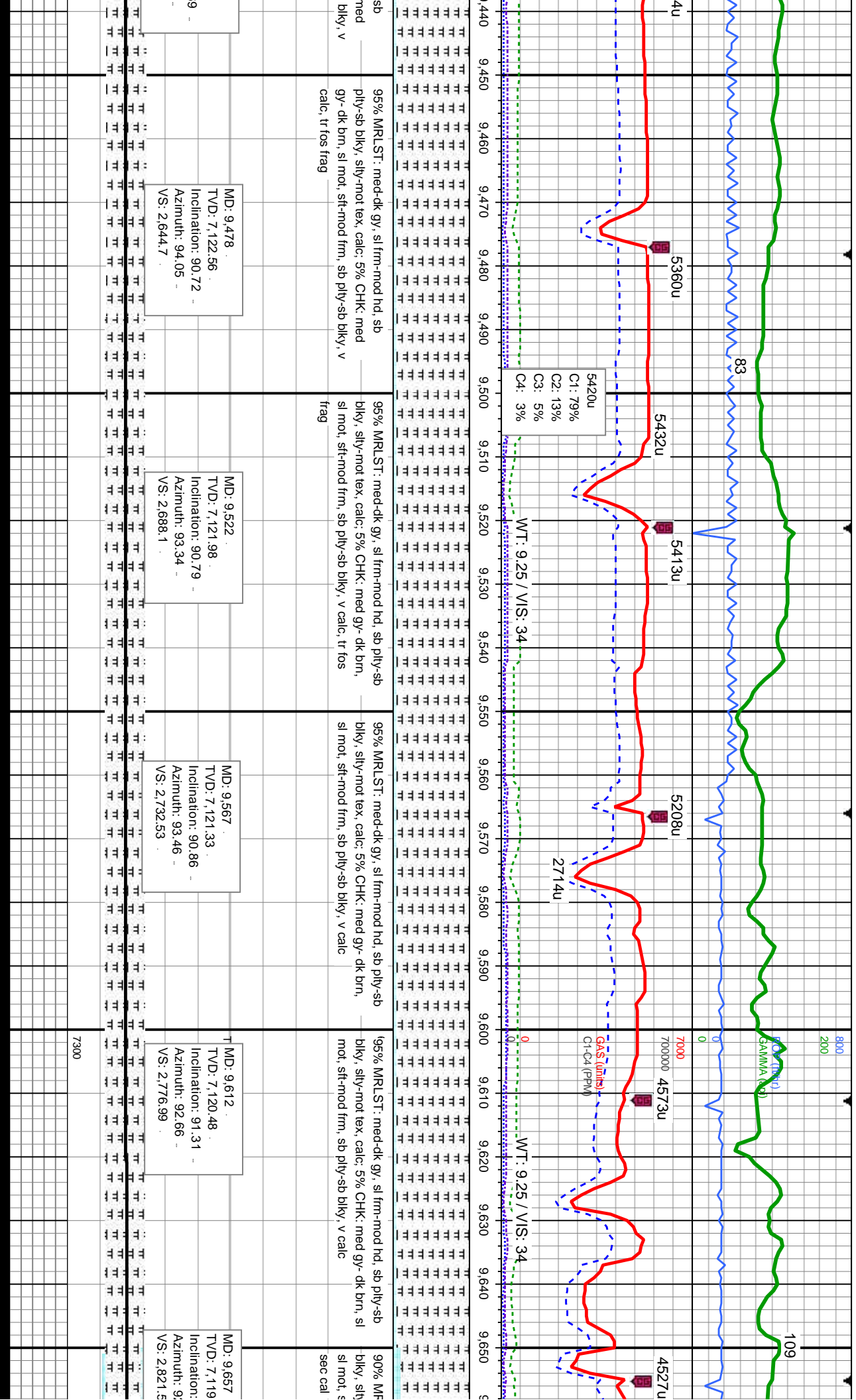












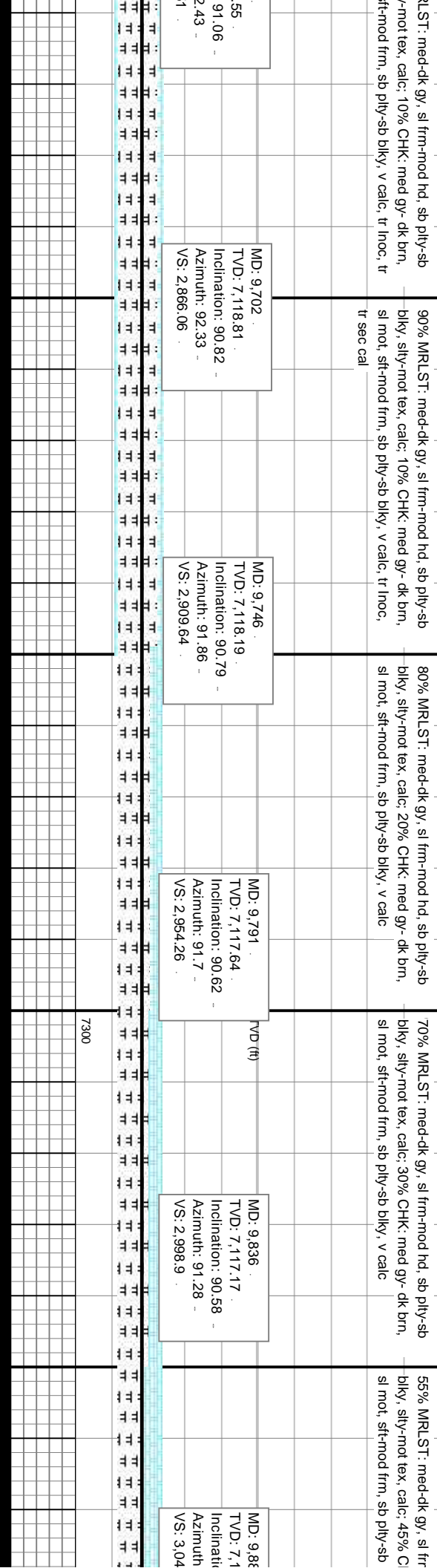
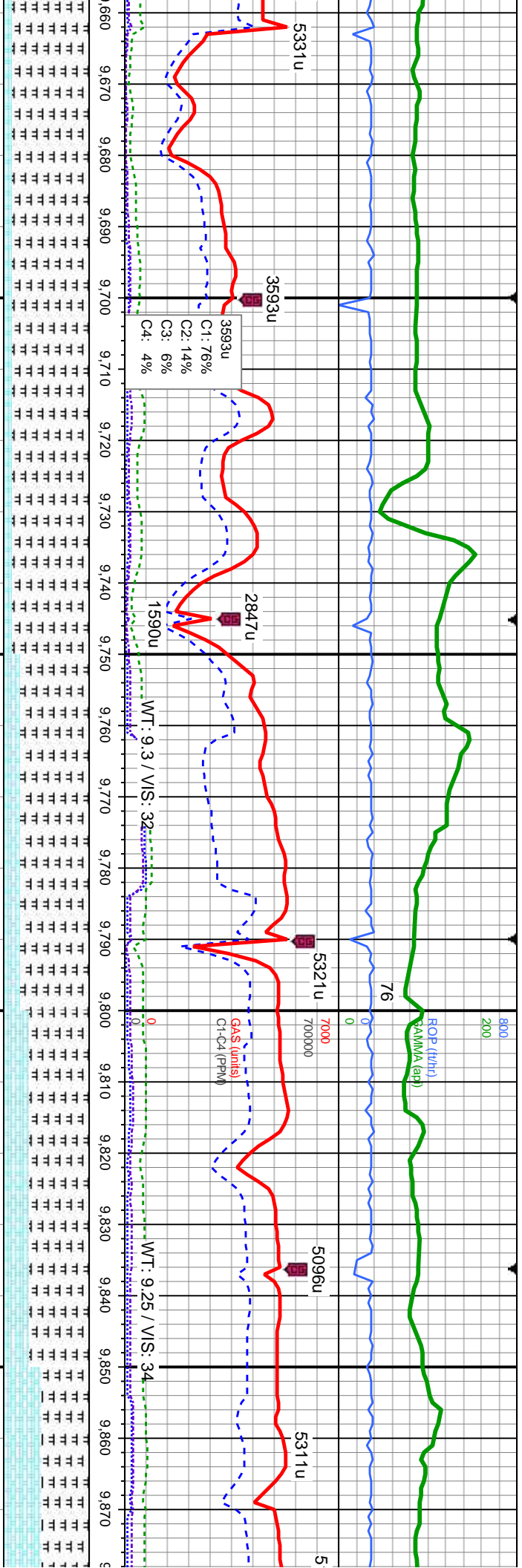
MD: 9.478
TVD: 7.122.56
Inclination: 90.72
Azimuth: 94.05
VS: 2.644.7

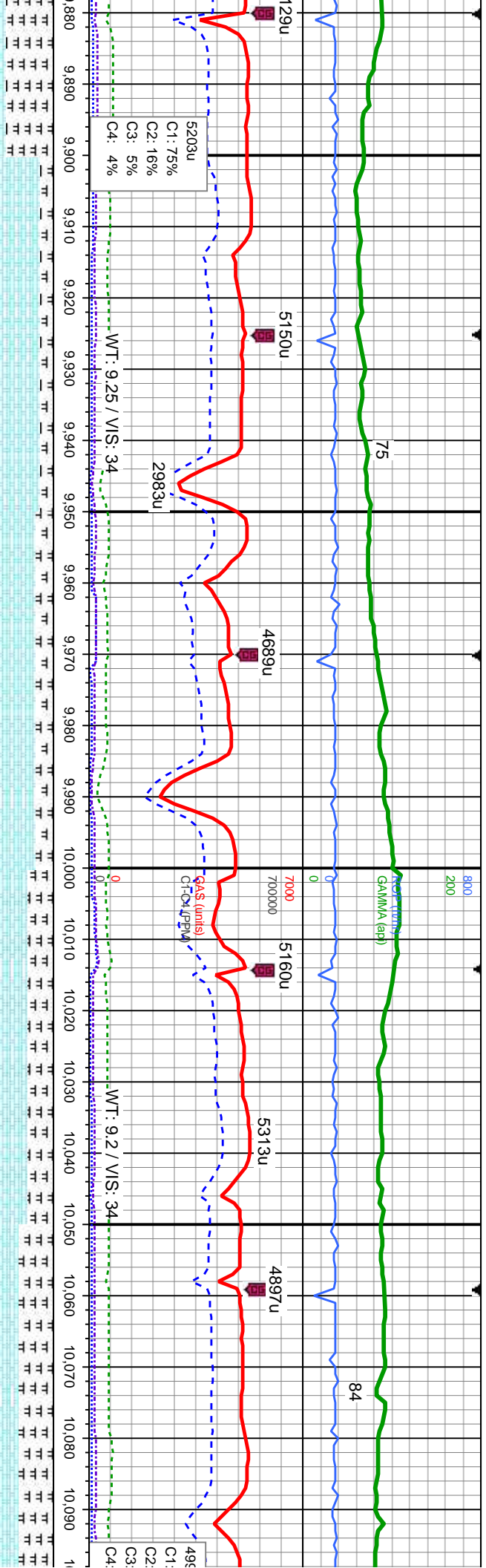
MD: 9.522
TVD: 7.121.98
Inclination: 90.79
Azimuth: 93.34
VS: 2.688.1

MD: 9.567
TVD: 7.121.33
Inclination: 90.86
Azimuth: 93.46
VS: 2.732.53

MD: 9.612
TVD: 7.120.48
Inclination: 91.31
Azimuth: 92.66
VS: 2.776.99

MD: 9.657
TVD: 7.119
Inclination:
Azimuth: 9
VS: 2.821.5

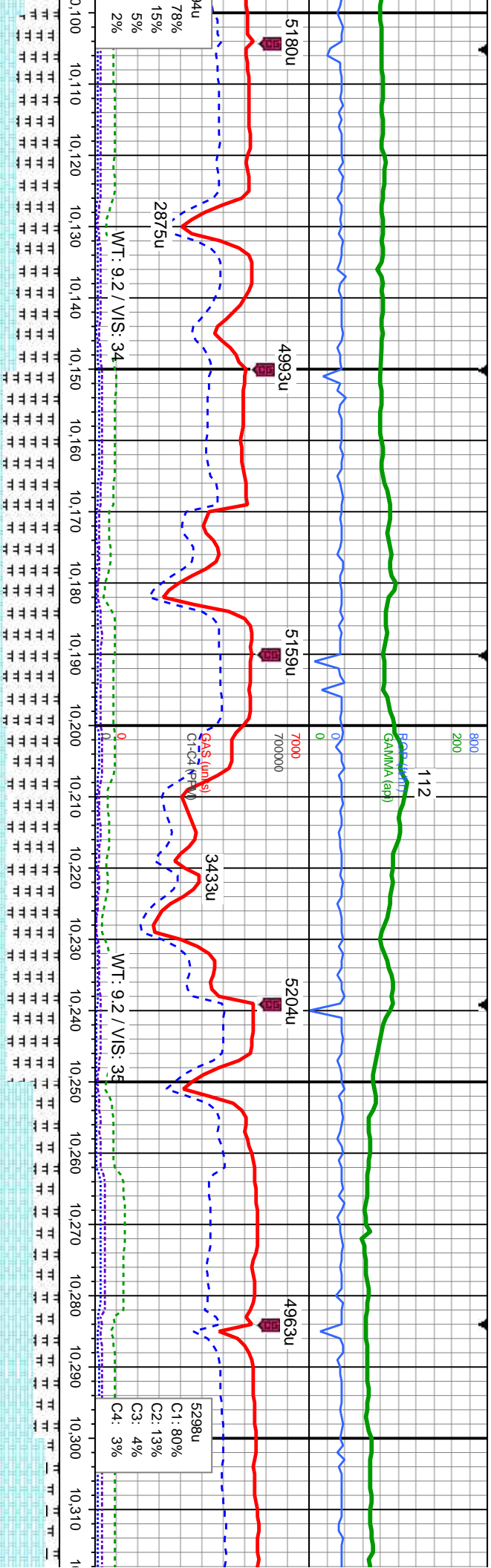




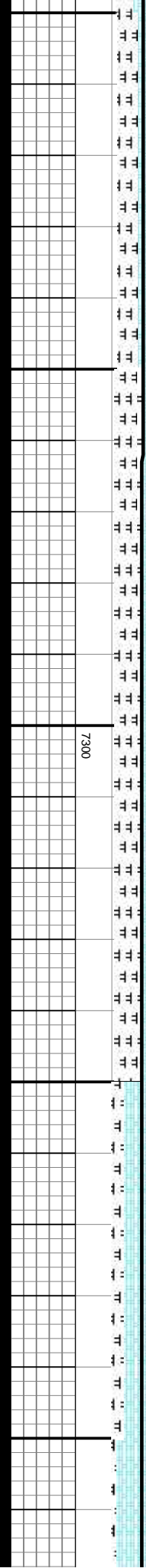
85% CHK: med gy- dk brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc; 15% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc, tr Inoc	MD: 9.925 TVD: 7,116.53 Inclination: 90.45 Azimuth: 90.54 VS: 3.087.3
80% CHK: med gy- dk brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc; 20% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc, tr Inoc	MD: 9.970 TVD: 7,116.04 Inclination: 90.79 Azimuth: 90.52 VS: 3.132.03
670% CHK: med gy- dk brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc; 30% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc, tr Inoc	MD: 10.015 TVD: 7,115.65 Inclination: 90.21 Azimuth: 90.17 VS: 3.176.78
60% CHK: med gy- dk brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc; 40% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc, tr Inoc	MD: 10.060 TVD: 7,115.65 Inclination: 89.79 Azimuth: 89.81 VS: 3.221.55

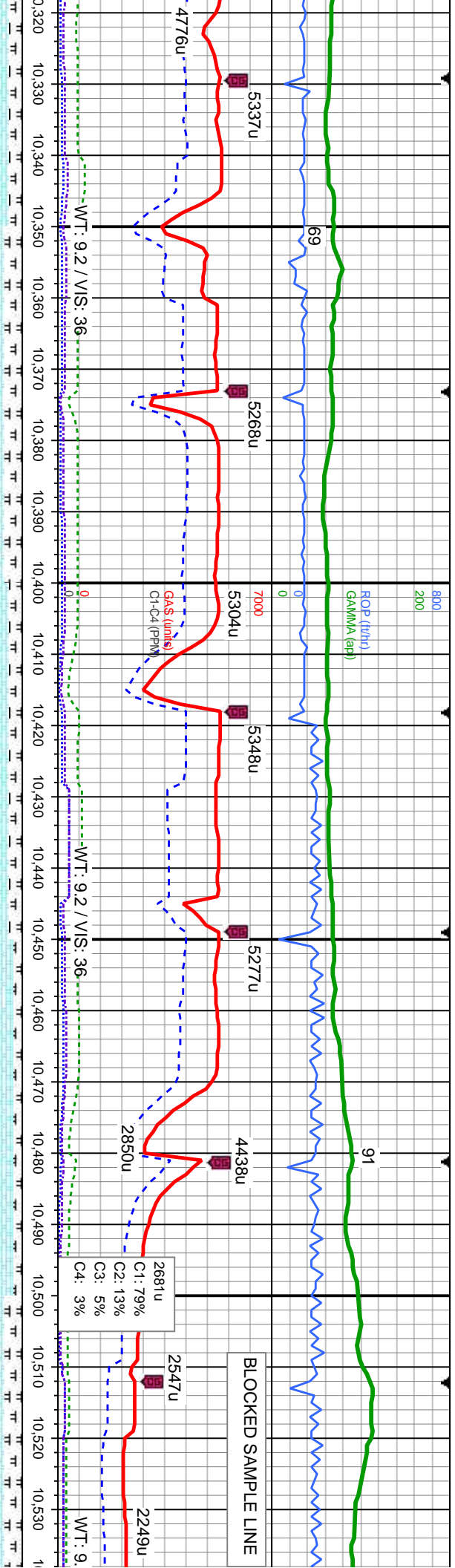
MD: 9.925 TVD: 7,116.53 Inclination: 90.45 Azimuth: 90.54 VS: 3.087.3	MD: 9.970 TVD: 7,116.04 Inclination: 90.79 Azimuth: 90.52 VS: 3.132.03	MD: 10.015 TVD: 7,115.65 Inclination: 90.21 Azimuth: 90.17 VS: 3.176.78	MD: 10.060 TVD: 7,115.65 Inclination: 89.79 Azimuth: 89.81 VS: 3.221.55
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MD: 9.925 TVD: 7,116.53 Inclination: 90.45 Azimuth: 90.54 VS: 3.087.3	MD: 9.970 TVD: 7,116.04 Inclination: 90.79 Azimuth: 90.52 VS: 3.132.03	MD: 10.015 TVD: 7,115.65 Inclination: 90.21 Azimuth: 90.17 VS: 3.176.78	MD: 10.060 TVD: 7,115.65 Inclination: 89.79 Azimuth: 89.81 VS: 3.221.55
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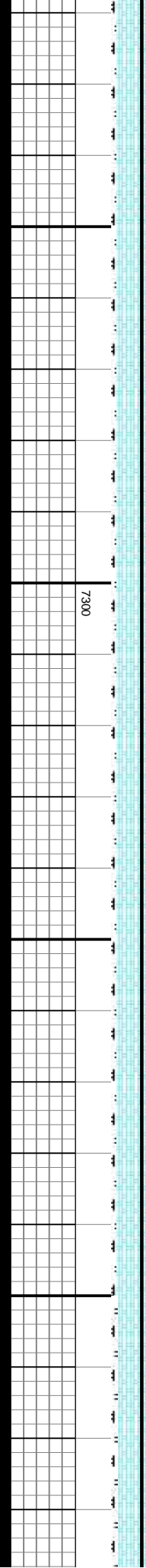


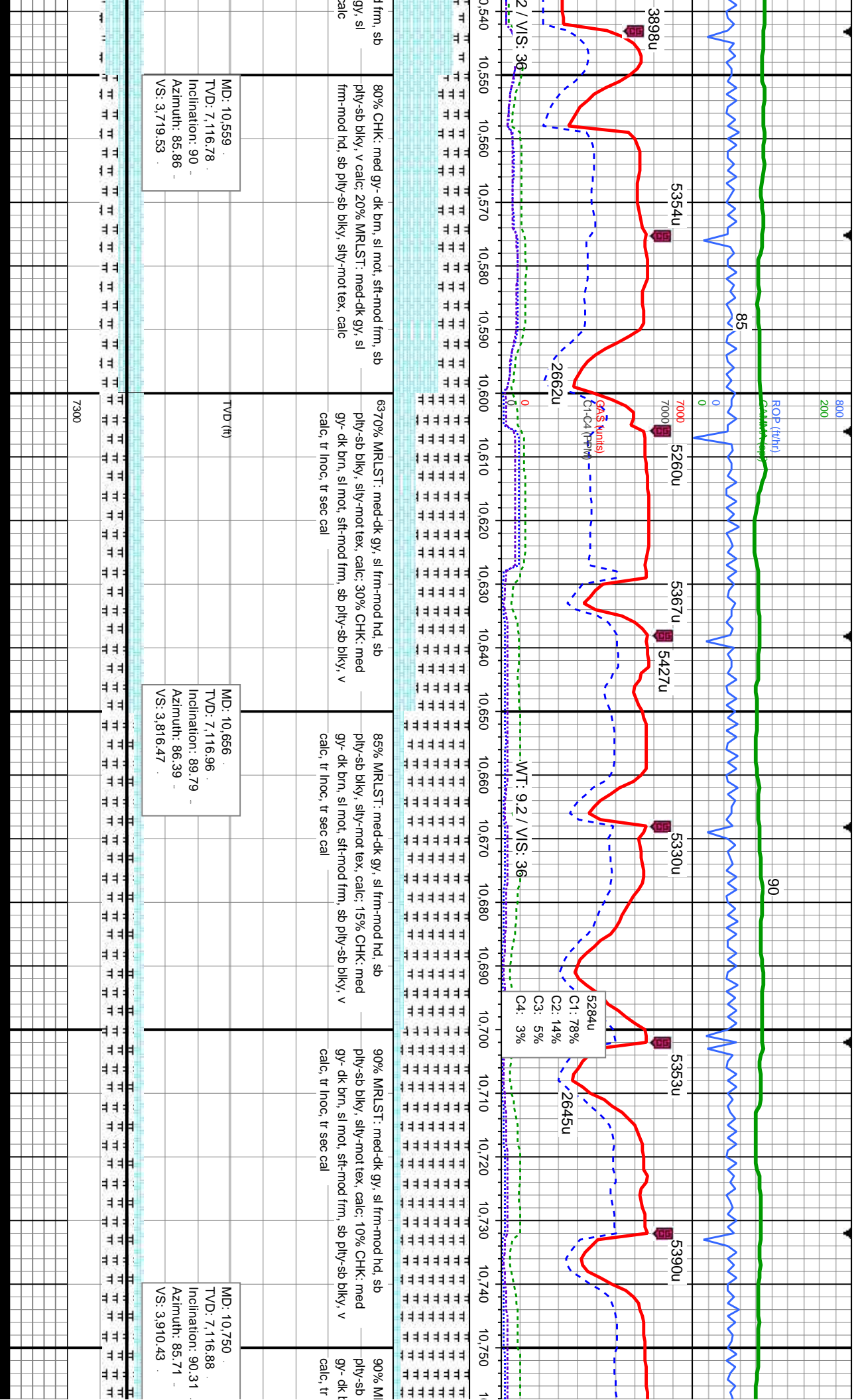
50% CHK: med gy- dk brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc; 50% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, slty-mot tex, calc, tr inoc	65% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, slty-mot tex, calc; 35% CHK: med gy- dk brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc, tr inoc, tr sec cal	60% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, slty-mot tex, calc; 40% CHK: med gy- dk brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc, v tr sec cal	70% CHK: med gy- dk brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc; 30% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, slty-mot tex, calc	85% CHK: med gy- dk brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc; 20% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, slty-mot tex, calc
MD: 10,105 TVD: 7,115.84 Inclination: 89.72 Azimuth: 89.14 VS: 3,266.37	MD: 10,149 TVD: 7,116.24 Inclination: 89.24 Azimuth: 89.39 VS: 3,310.2	MD: 10,194 TVD: 7,116.81 Inclination: 89.31 Azimuth: 88.57 VS: 3,355.04	MD: 10,239 TVD: 7,117.28 Inclination: 89.48 Azimuth: 88.35 VS: 3,399.92	MD: 10,284 TVD: 7,117.5 Inclination: 89.97 Azimuth: 87.69 VS: 3,444.82





- dk brn, sl mot, sft-mod frm, sb - 15% MRLST: med-dk gy, sl - v-sb blkly, silty-mot tex, calc	80% CHK: med gy- dk brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc; 20% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc	68% CHK: med gy- dk brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc; 15% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc	90% CHK: med gy- dk brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc; 10% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc	80% CHK: med gy- dk brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc; 20% MRLST: med-dk frm-mod hd, sb ply-sb blkly, silty-mot tex, calc
MD: 10,329 TVD: 7,117.46 Inclination: 90.14 Azimuth: 87.46 VS: 3,489.75	MD: 10,373 TVD: 7,117.35 Inclination: 90.14 Azimuth: 87.12 VS: 3,533.69	TVD (ft)	MD: 10,466 TVD: 7,117.01 Inclination: 90.28 Azimuth: 86.73 VS: 3,626.58	

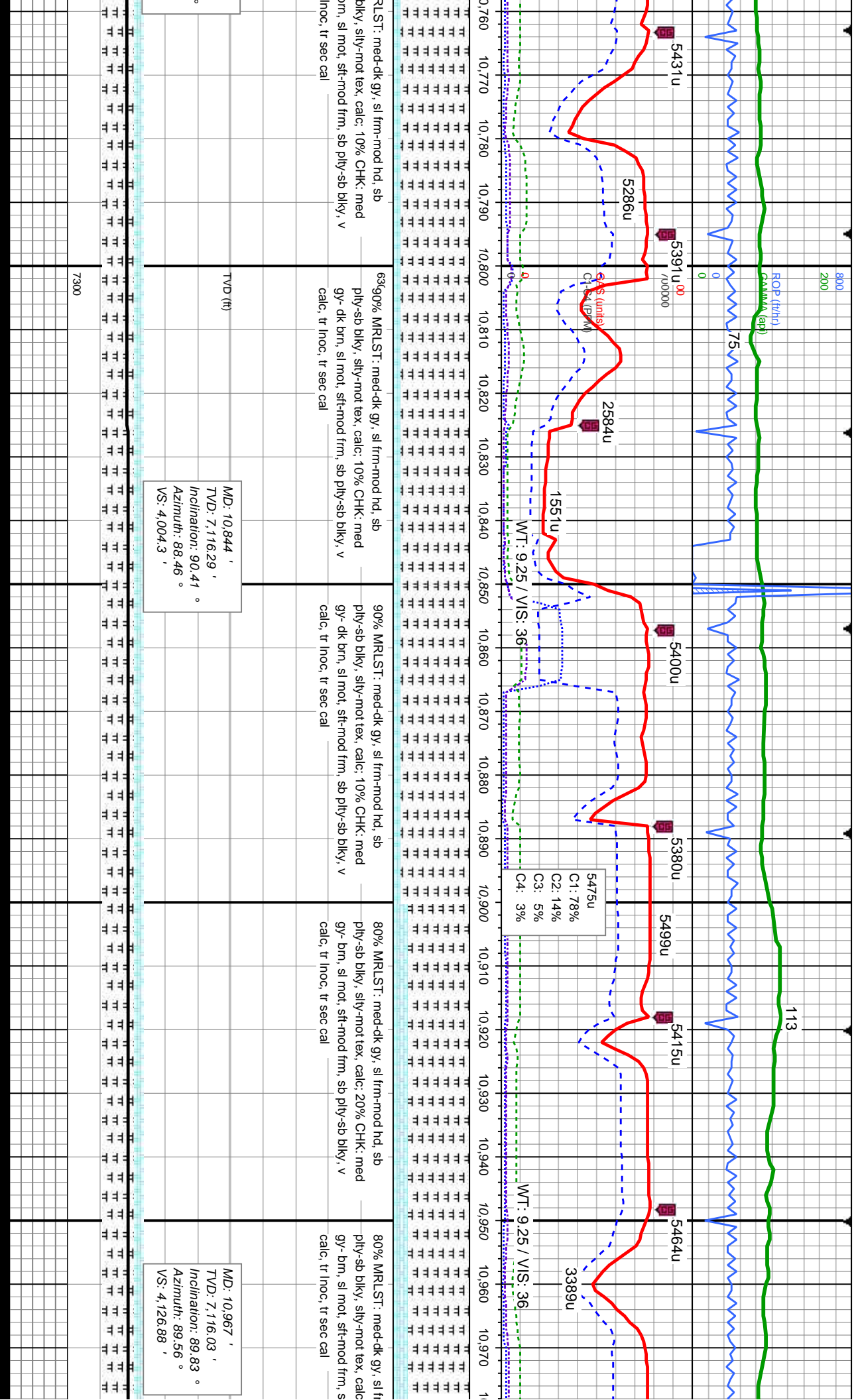




MD: 10,559
TVD: 7,116.78
Inclination: 90
Azimuth: 85.86
VS: 3,719.53

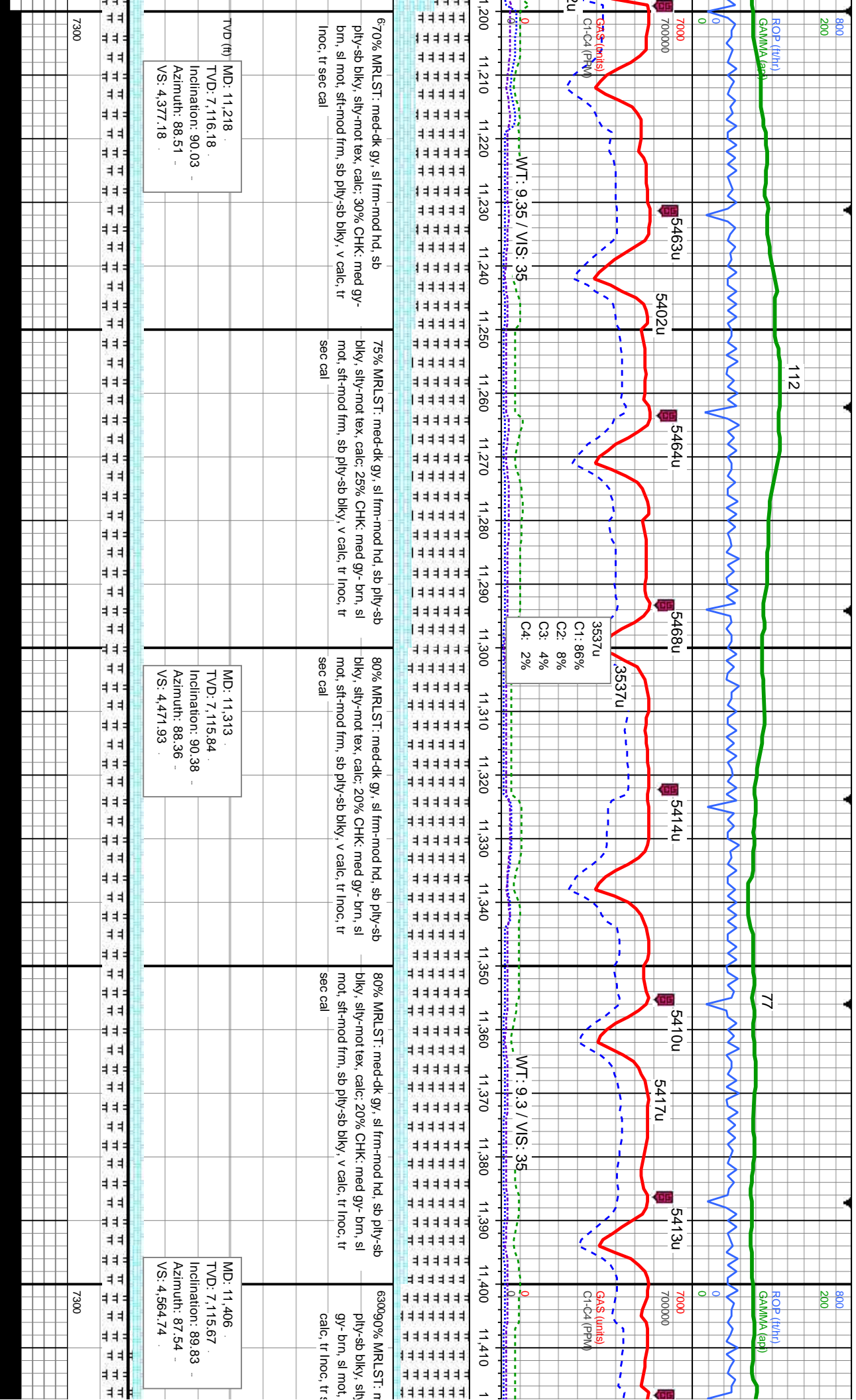
MD: 10,656
TVD: 7,116.96
Inclination: 89.79
Azimuth: 86.39
VS: 3,816.47

MD: 10,750
TVD: 7,116.88
Inclination: 90.31
Azimuth: 85.71
VS: 3,910.43



MD: 10.844 '
TVD: 7,116.29 '
Inclination: 90.41 °
Azimuth: 88.46 °
VS: 4.004.3 '

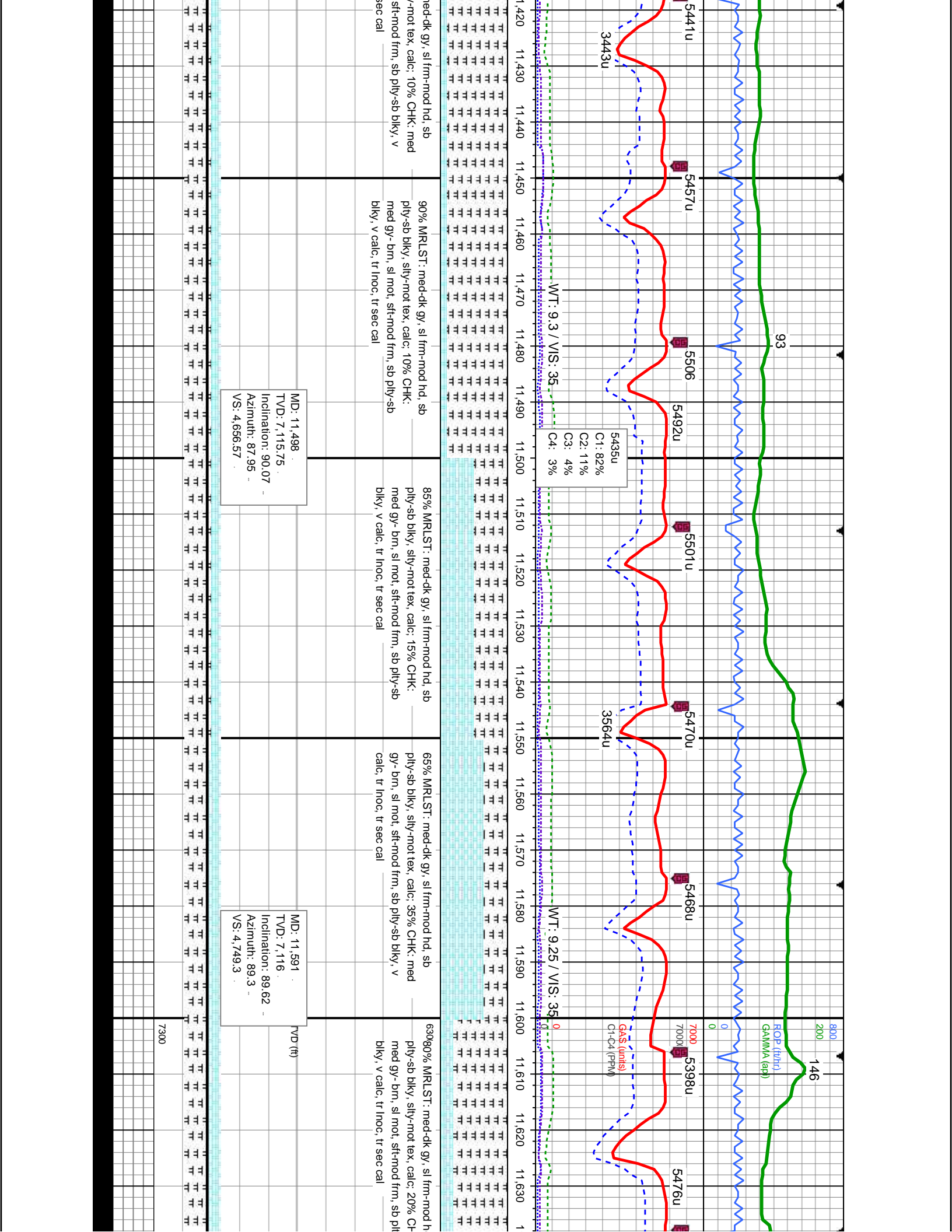
MD: 10.967 '
TVD: 7,116.03 '
Inclination: 89.83 °
Azimuth: 89.56 °
VS: 4.126.88 '

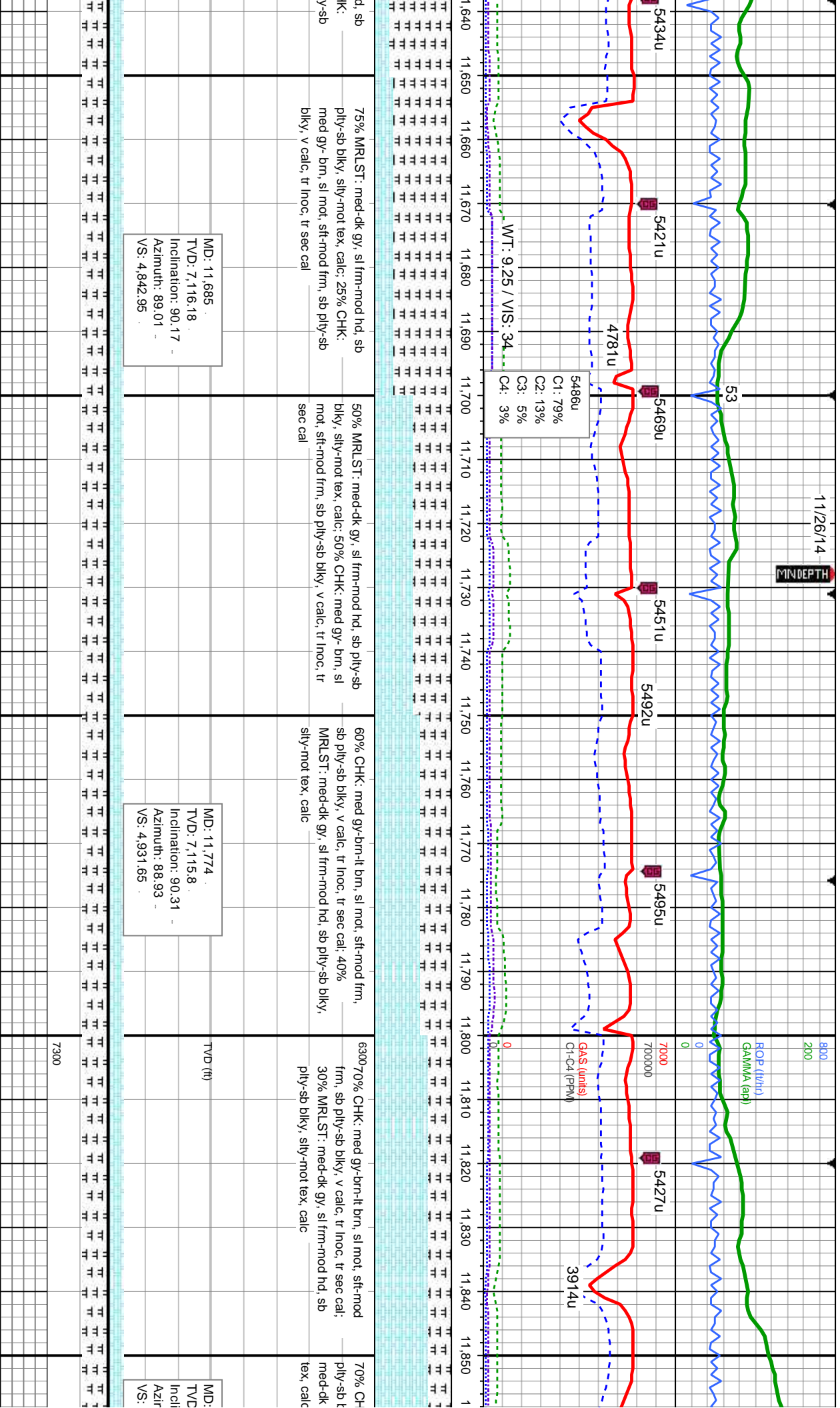


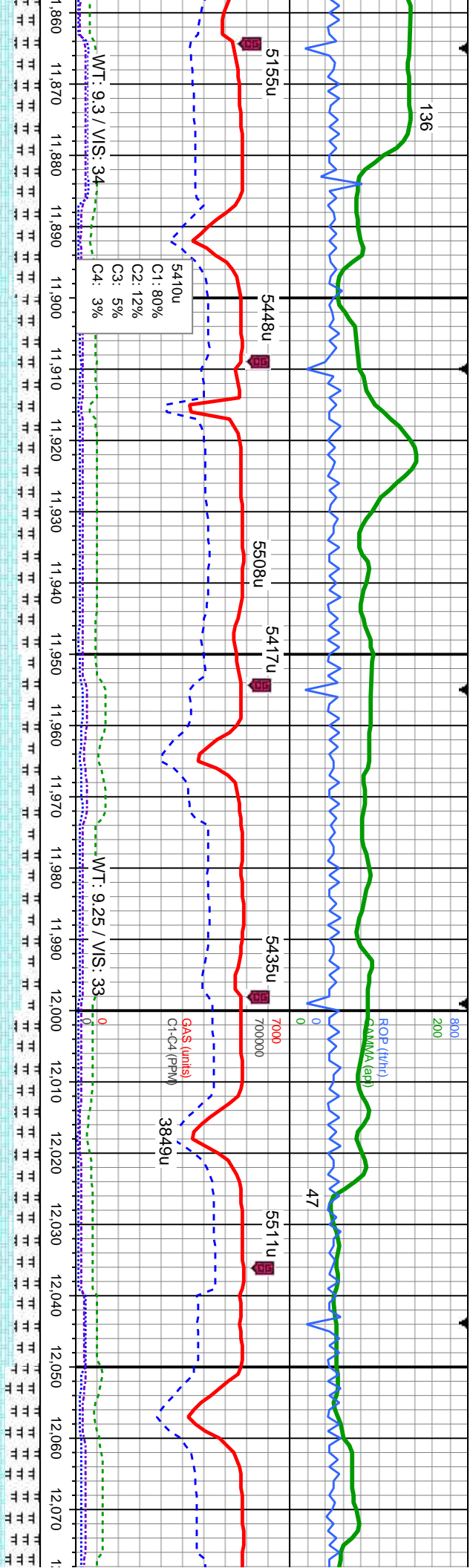
MD: 11,218
TVD: 7,116.18
Inclination: 90.03
Azimuth: 88.51
VS: 4,377.18

MD: 11,313
TVD: 7,115.84
Inclination: 90.38
Azimuth: 88.36
VS: 4,471.93

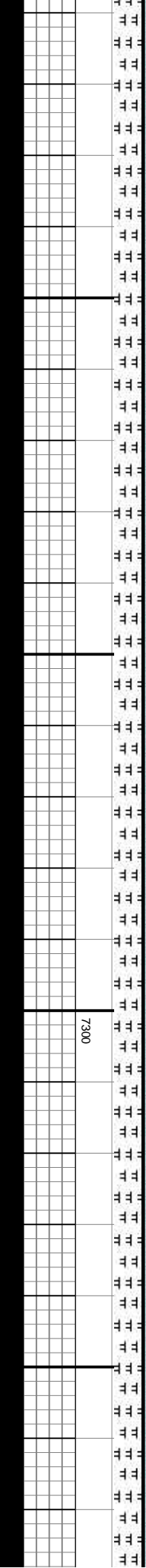
MD: 11,406
TVD: 7,115.67
Inclination: 89.83
Azimuth: 87.54
VS: 4,564.74

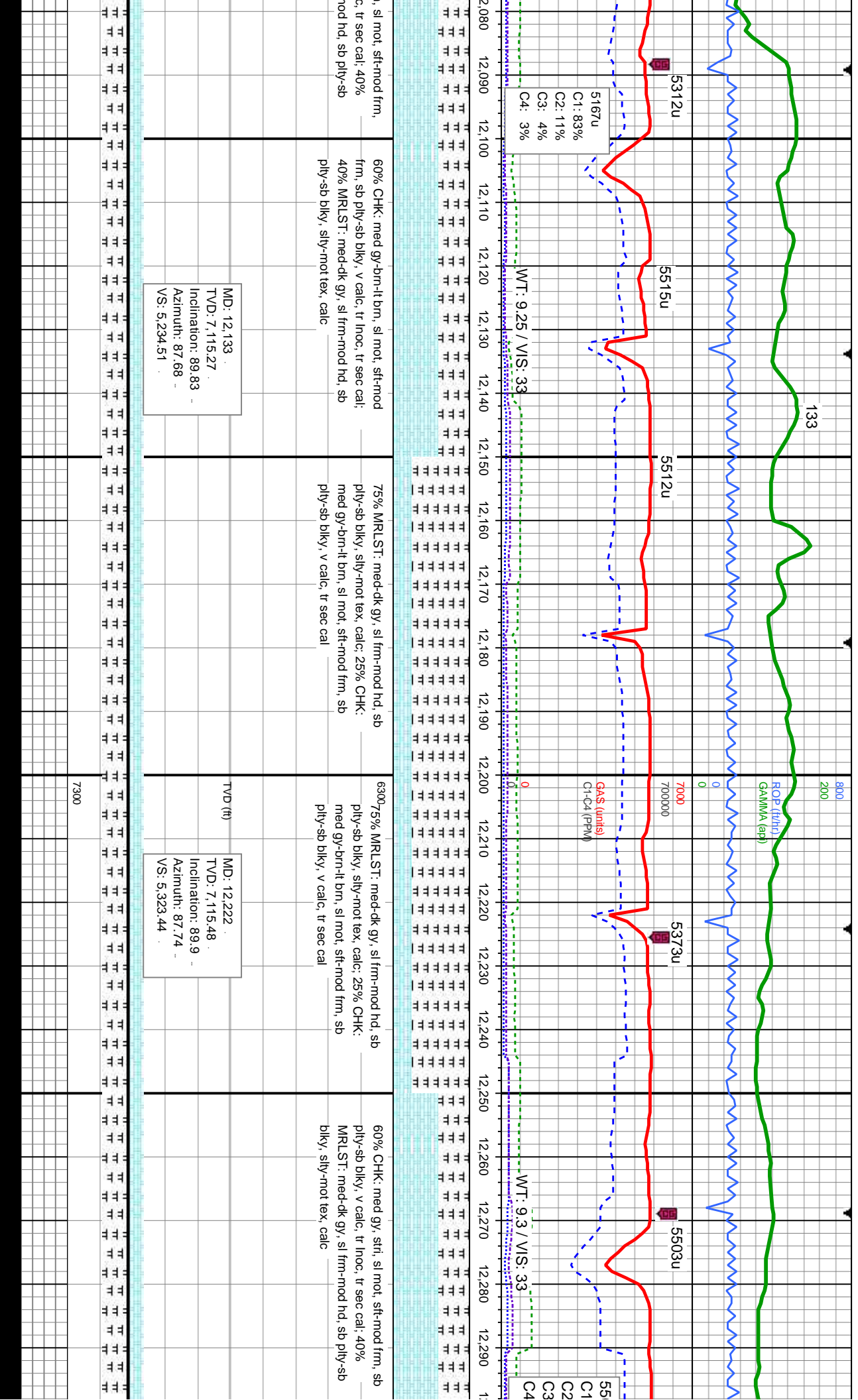


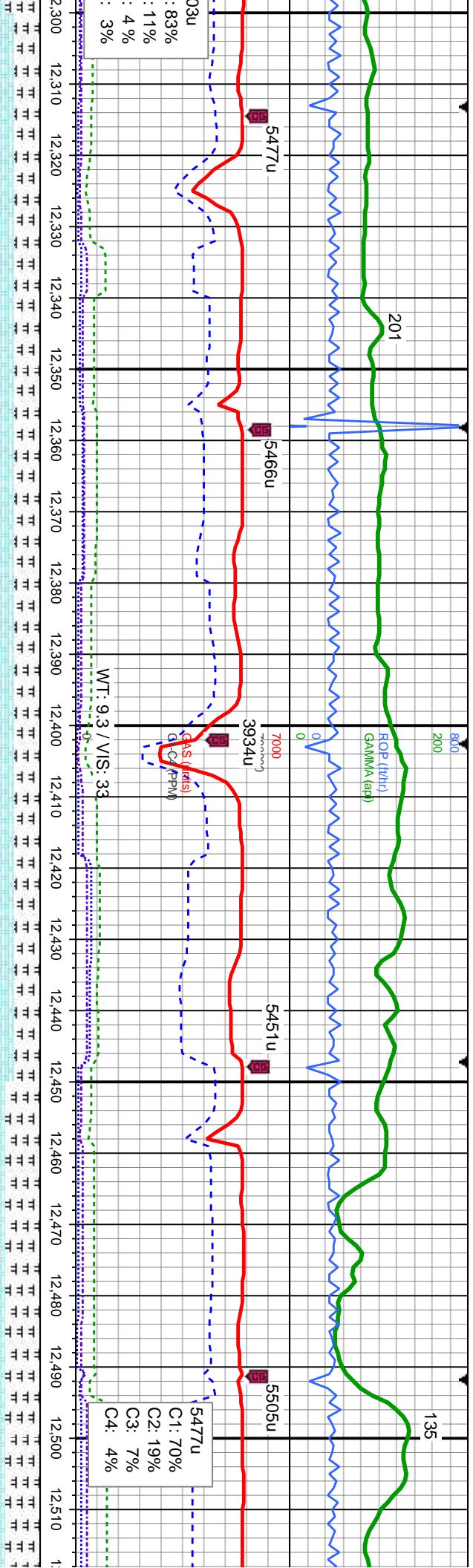




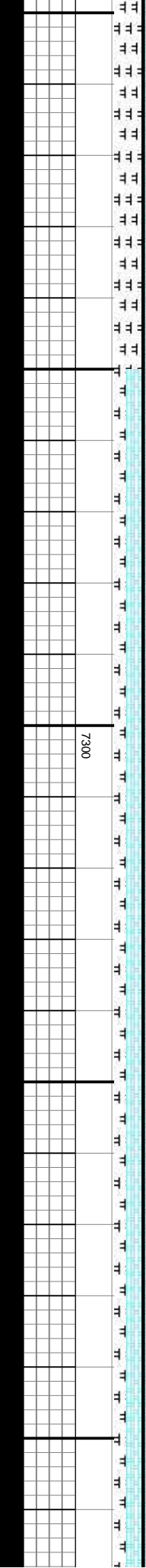
CHK: med gy-brn-lt brn, sl mot, sft-mod frm, sb blkly, v calc, tr inoc, tr sec cal: 30% MRLST: gy, sl frm-mod hd, sb ply-sb blkly, silty-mot	75% CHK: med gy-brn-lt brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc, tr inoc, tr sec cal: 25% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc	80% CHK: med gy-brn-lt brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc, tr inoc, tr sec cal: 20% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc	63% CHK: med gy-brn-lt brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc, tr inoc, tr sec cal: 30% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc	60% CHK: med gy-brn-lt brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc, tr inoc, tr sec cal: 30% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc
MD: 11,864 TVD: 7,115.43 Inclination: 90.17 Azimuth: 88.99 VS: 5,021.35	MD: 11,953 TVD: 7,115.35 Inclination: 89.93 Azimuth: 88.76 VS: 5,110.06	MD: 12,043 TVD: 7,115.27 Inclination: 90.17 Azimuth: 87.99 VS: 5,199.83		

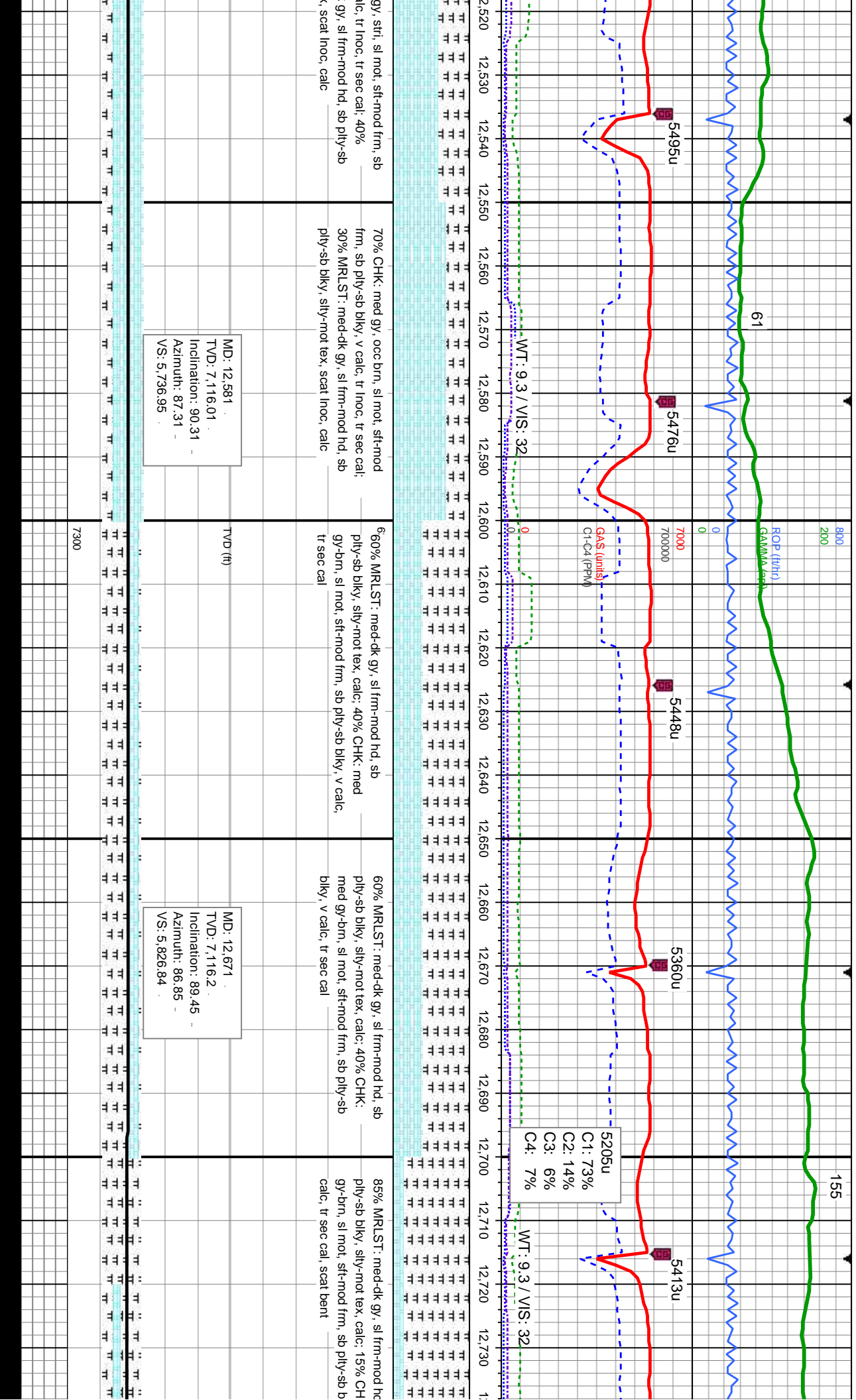






70% CHK: med gy, stri, sl mot, sft-mod frm, sb ply-sb blkly, v calc, tr inoc, tr sec cal: 30% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc	70% CHK: med gy, stri, sl mot, sft-mod frm, sb ply-sb blkly, v calc, tr inoc, tr sec cal: 30% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc	6300 70% CHK: med gy, stri, sl mot, sft-mod frm, sb ply-sb blkly, v calc, tr inoc, tr sec cal: 30% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc	60% CHK: med gy, stri, sl mot, sft-mod frm, sb ply-sb blkly, v calc, tr inoc, tr sec cal: 40% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, scat bent, calc	60% CHK: med ply-sb blkly, v ce MRLST: med-dk
MD: 12.312 TVD: 7,115.56 Inclination: 90 Azimuth: 87.11 VS: 5,413.35		MD: 12.401 TVD: 7,115.77 Inclination: 89.73 Azimuth: 87.9 VS: 5,502.27	MD: 12.492 TVD: 7,116.12 Inclination: 89.83 Azimuth: 87.13 VS: 5,593.18	





gy, stri, sl mot, sft-mod frm, sb
calc, tr inoc, tr sec cal: 40%
gy, sl frm-mod hd, sb ply-sb
calc, scat inoc, calc

70% CHK: med gy, occ brn, sl mot, sft-mod
frm, sb ply-sb blk, v calc, tr inoc, tr sec cal:
30% MRLST: med-dk gy, sl frm-mod hd, sb
ply-sb blk, silty-mot tex, scat inoc, calc

60% MRLST: med-dk gy, sl frm-mod hd, sb
ply-sb blk, silty-mot tex, calc: 40% CHK: med
gy-brn, sl mot, sft-mod frm, sb ply-sb blk, v calc,
tr sec cal

60% MRLST: med-dk gy, sl frm-mod hd, sb
ply-sb blk, silty-mot tex, calc: 40% CHK:
med gy-brn, sl mot, sft-mod frm, sb ply-sb
blk, v calc, tr sec cal

85% MRLST: med-dk gy, sl frm-mod hd
ply-sb blk, silty-mot tex, calc: 15% CH
gy-brn, sl mot, sft-mod frm, sb ply-sb
calc, tr sec cal, scat bent

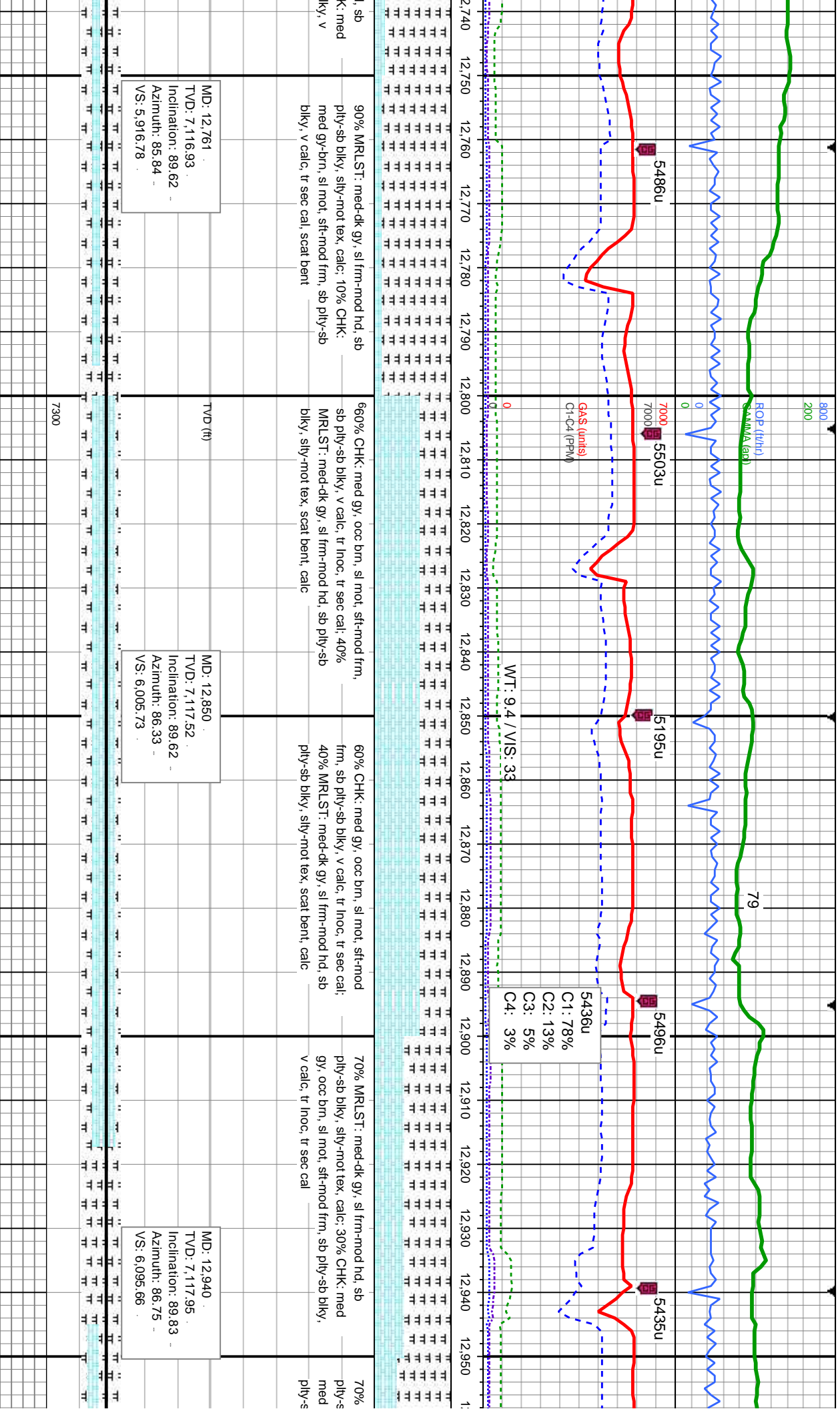
MD: 12.581
TVD: 7,116.01
Inclination: 90.31
VS: 5,736.95

MD: 12.671
TVD: 7,116.2
Inclination: 89.45
VS: 5,826.84

MD: 12.671
TVD: 7,116.2
Inclination: 89.45
VS: 5,826.84

MD: 12.671
TVD: 7,116.2
Inclination: 89.45
VS: 5,826.84

7300



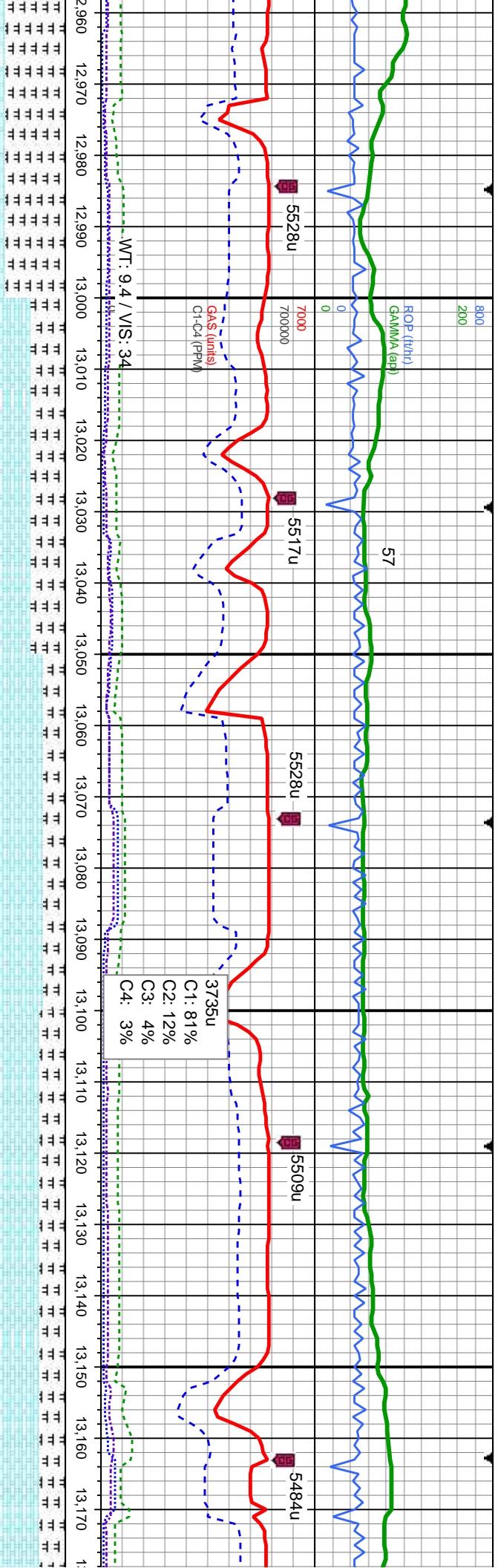
90% MRLST: med-dk gy, sl frm-mod hd, sb
ply-sb blkly, silty-mot tex, calc; 10% CHK:
med gy-brn, sl mot, sft-mod frm, sb ply-sb
blkly, v calc, tr sec cal, scat bent

60% CHK: med gy, occ brn, sl mot, sft-mod frm,
sb ply-sb blkly, v calc, tr inoc, tr sec cal; 40%
MRLST: med-dk gy, sl frm-mod hd, sb ply-sb
blkly, silty-mot tex, scat bent, calc

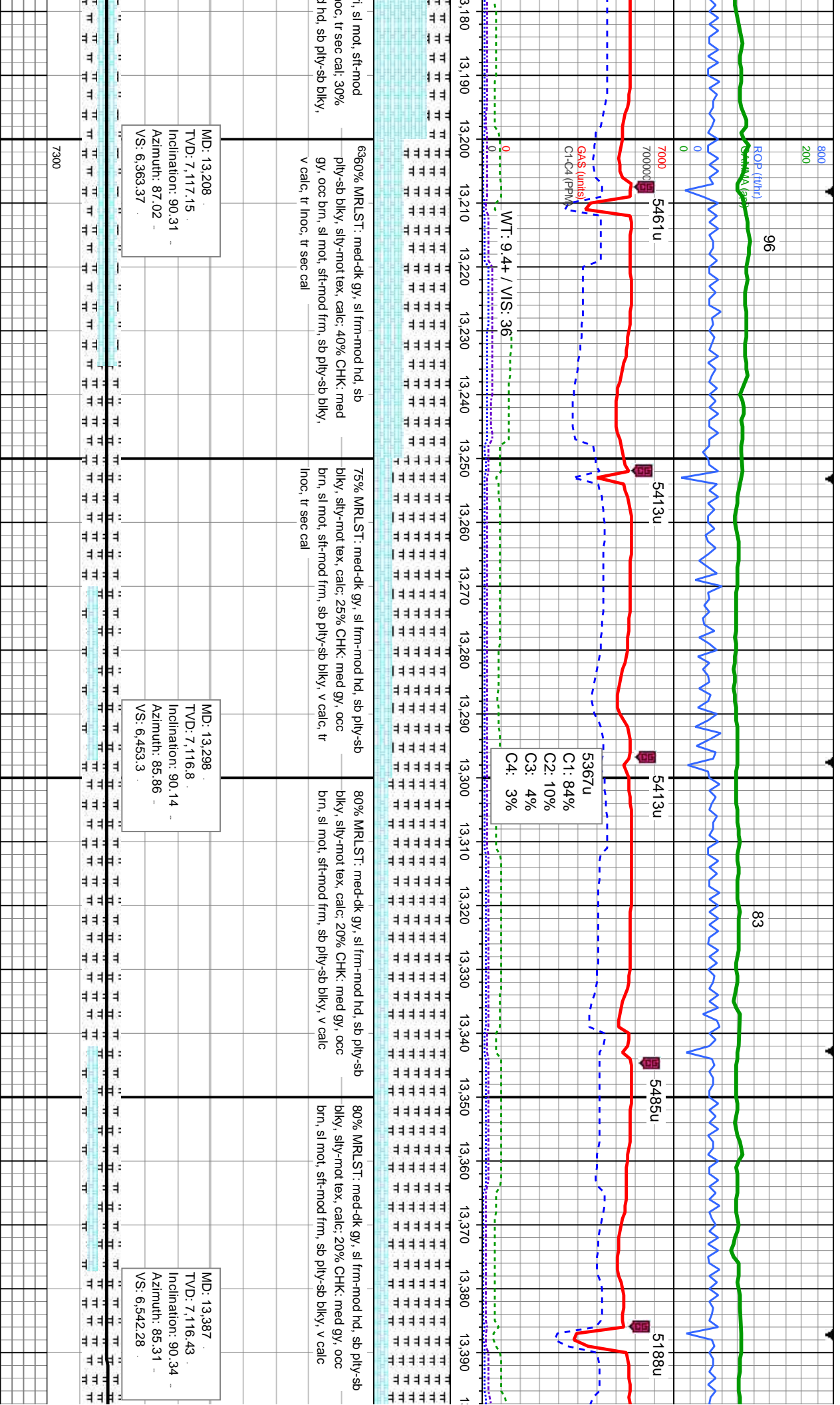
60% CHK: med gy, occ brn, sl mot, sft-mod
frm, sb ply-sb blkly, v calc, tr inoc, tr sec cal;
40% MRLST: med-dk gy, sl frm-mod hd, sb
ply-sb blkly, silty-mot tex, scat bent, calc

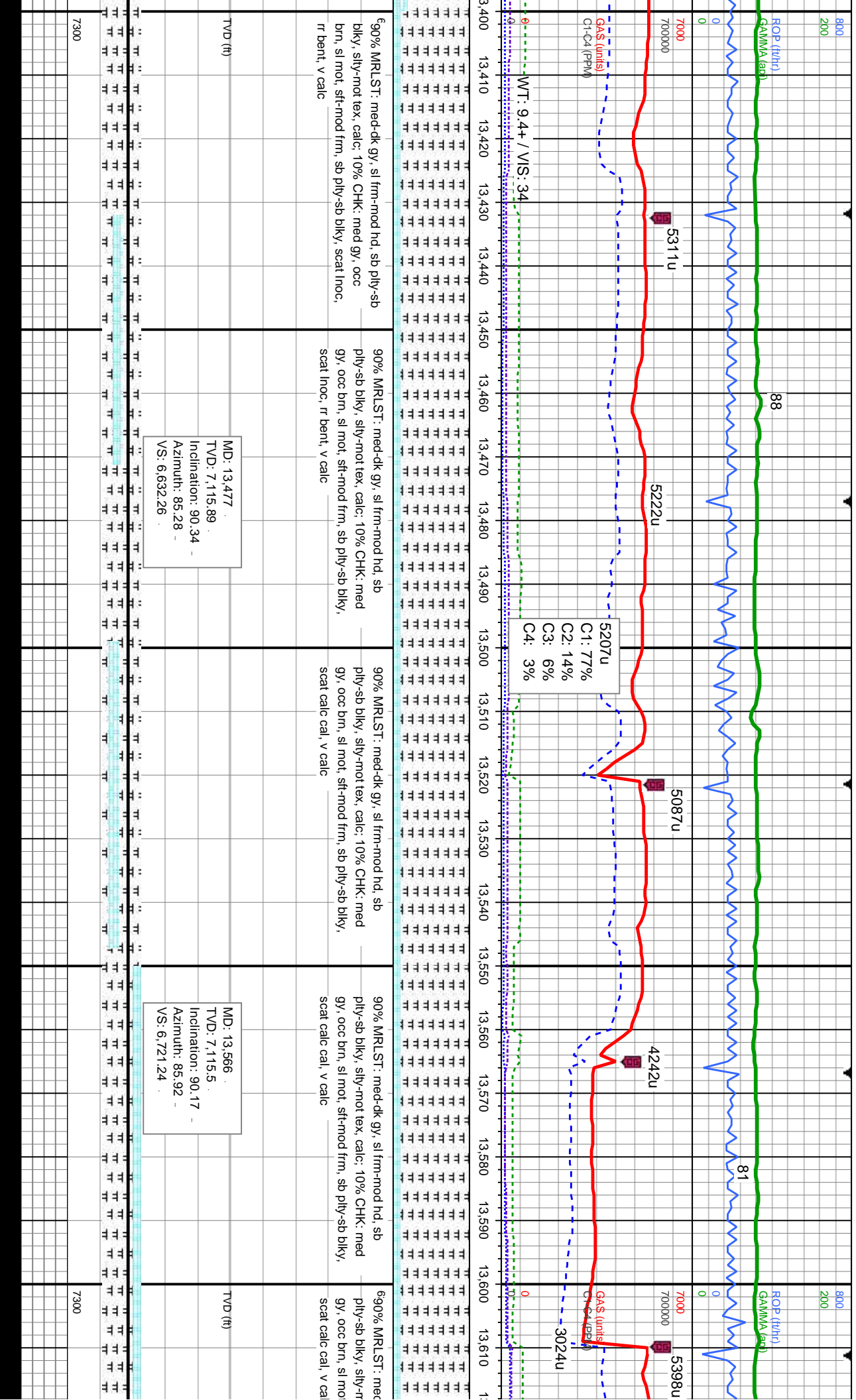
70% MRLST: med-dk gy, sl frm-mod hd, sb
ply-sb blkly, silty-mot tex, calc; 30% CHK: med
gy, occ brn, sl mot, sft-mod frm, sb ply-sb blkly,
v calc, tr inoc, tr sec cal

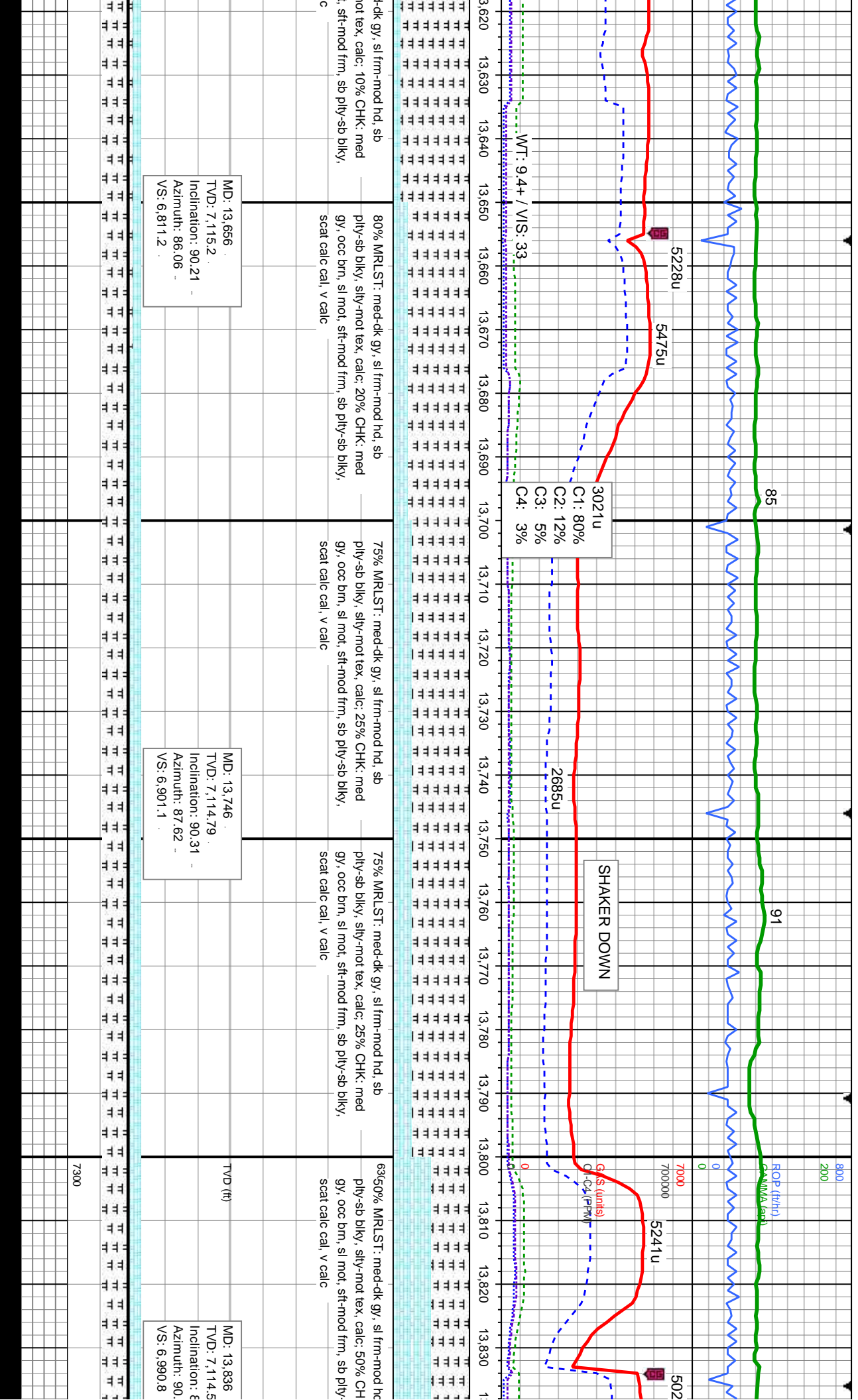
70%
ply-s

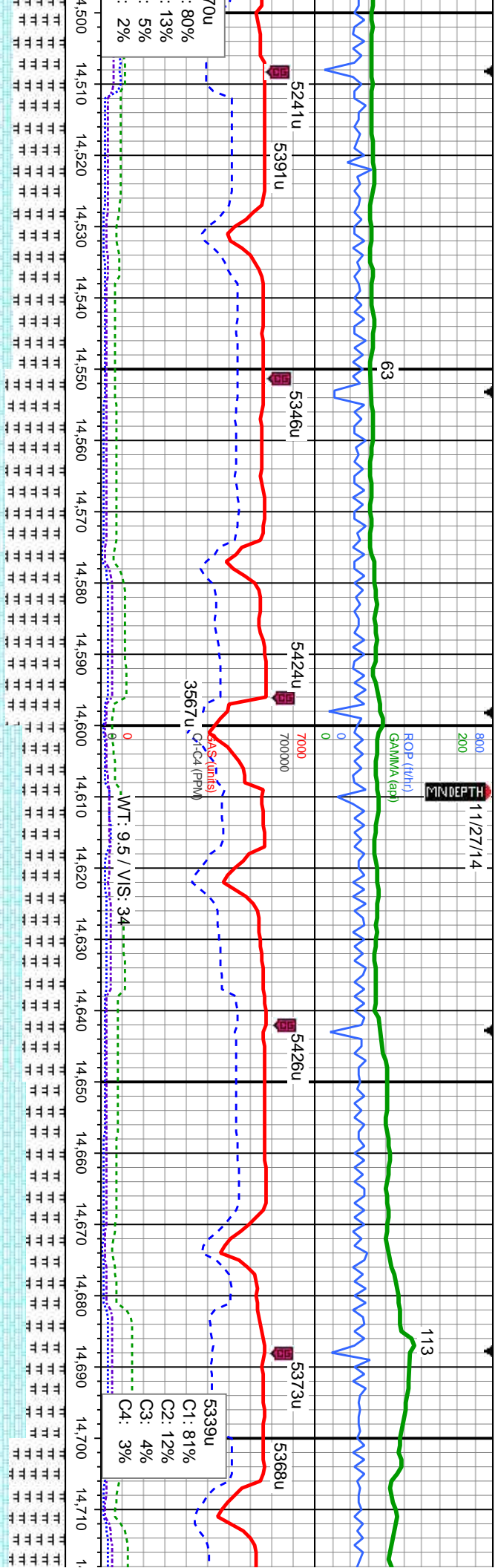


MRLST: med-dk gy, sl frm-mod hd, sb b biky, silty-mot tex, calc; 30% CHK: gy, occ brn, sl mot, sft-mod frm, sb b biky, v calc, tr inoc, tr sec cal	60% CHK: med gy, occ brn, stri, sl mot, sft-mod frm, sb ply-sb biky, v calc, tr inoc, tr sec cal; 40% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb biky, silty-mot tex, scat inoc, calc	75% CHK: med gy, occ brn, stri, sl mot, sft-mod frm, sb ply-sb biky, v calc, tr inoc, tr sec cal; 25% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb biky, silty-mot tex, scat inoc, calc	70% CHK: med gy, occ brn, stri, sl mot, sft-mod frm, sb ply-sb biky, v calc, tr inoc, tr sec cal; 30% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb biky, silty-mot tex, scat inoc, calc	70% CHK: med gy, occ brn, stri, frm, sb ply-sb biky, v calc, tr inoc, tr MRLST: med-dk gy, sl frm-mod silty-mot tex, scat inoc, calc
TVD (ft)	MD: 13,029 TVD: 7,118.01 Inclination: 90.1 Azimuth: 86.96 VS: 6,184.57		MD: 13,119 TVD: 7,117.66 Inclination: 90.34 Azimuth: 86.93 VS: 6,274.47	
7300				



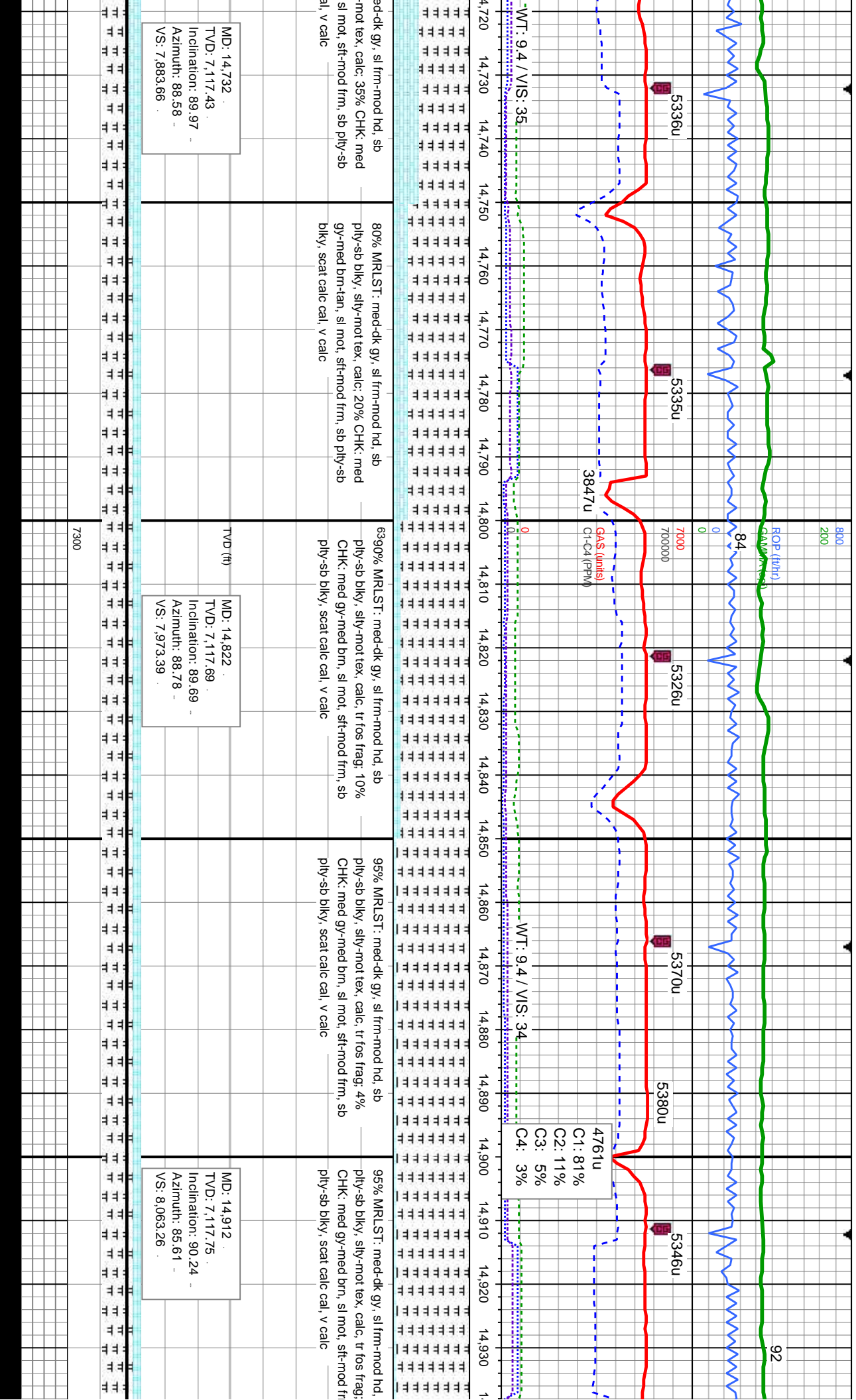


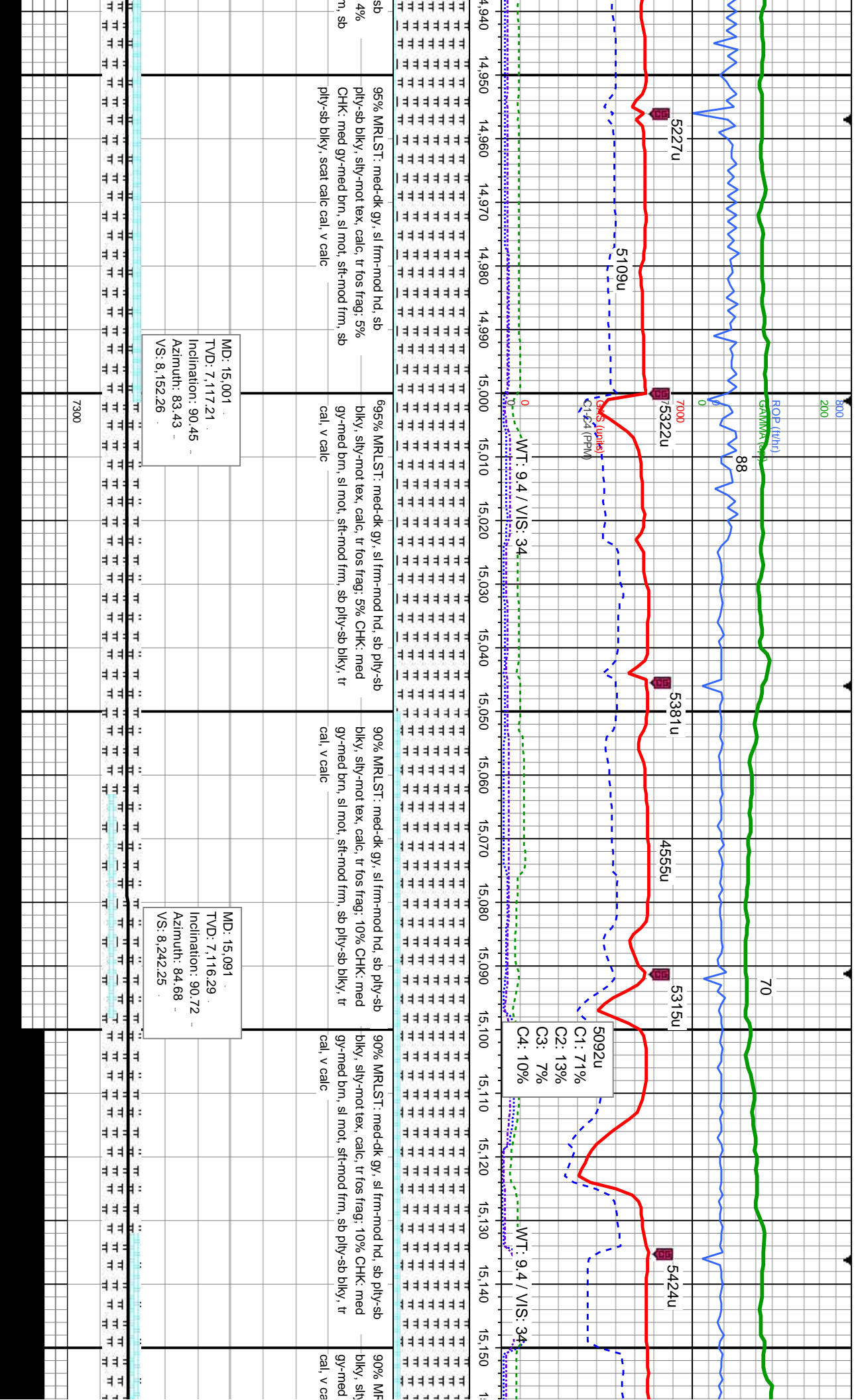


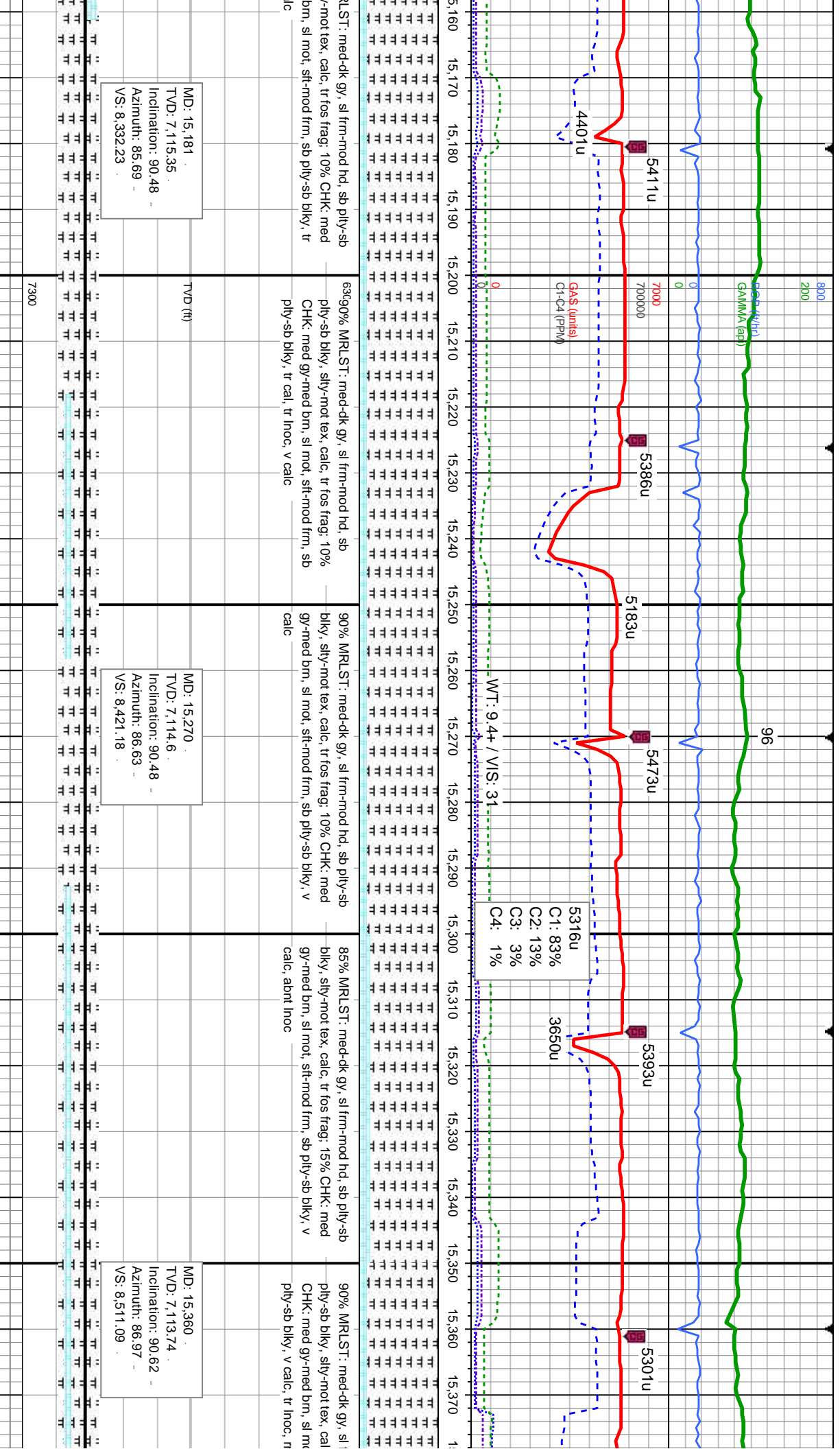


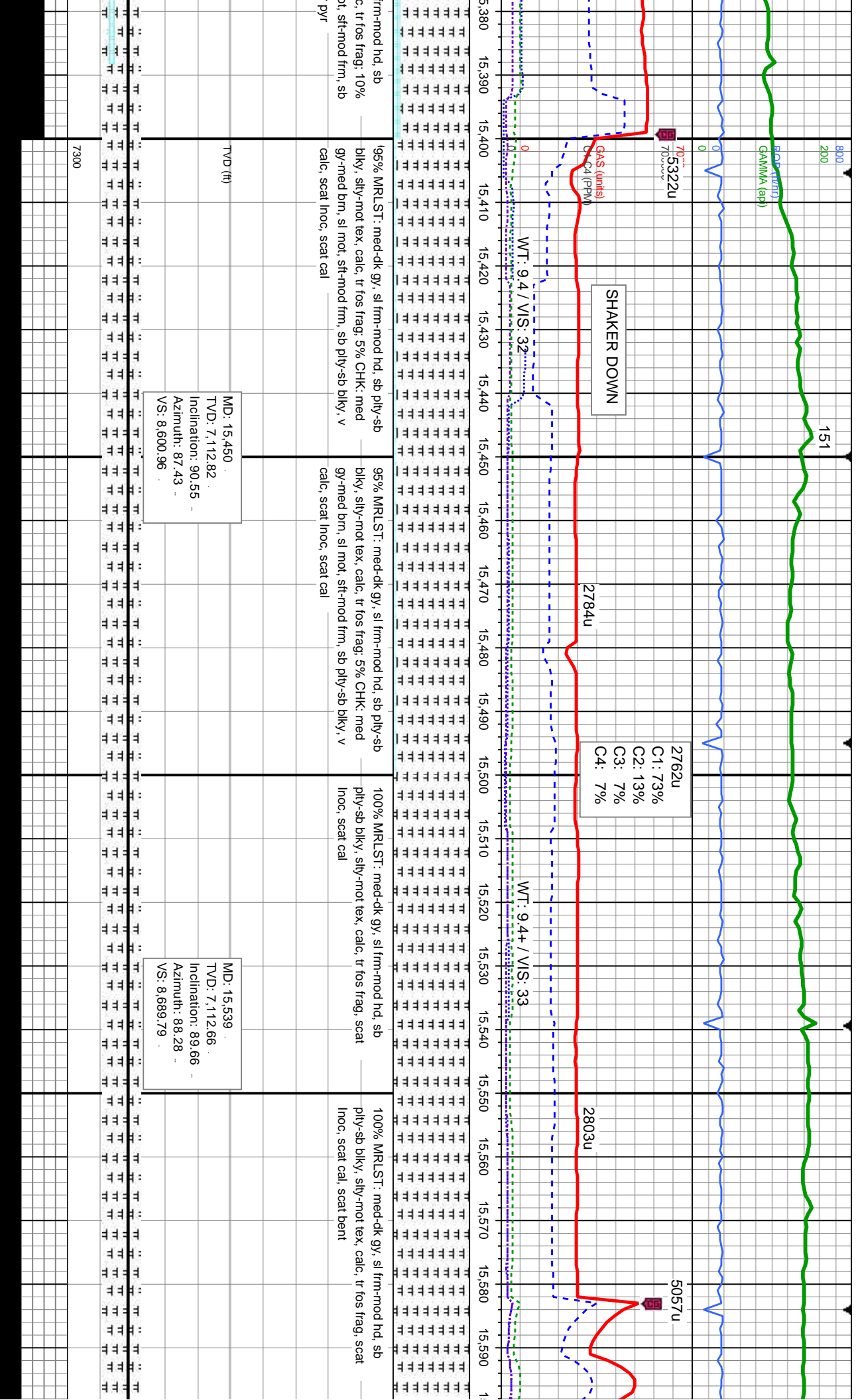
60% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb biky, silty-mot tex, calc, 40% CHK, med gy-med brn, sl mot, sft-mod frm, sb ply-sb biky, scat calc cal, v calc	70% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb biky, silty-mot tex, calc, 30% CHK, med gy-med brn, sl mot, sft-mod frm, sb ply-sb biky, scat calc cal, v calc	50% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb biky, silty-mot tex, calc, 50% CHK, med gy-med brn-tan, sl mot, sft-mod frm, sb ply-sb biky, scat calc cal, v calc	55% CHK: med gy-med brn-tan, sl mot, sft-mod frm, sb ply-sb biky, scat calc cal, v calc, 45% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb biky, silty-mot tex, calc	65% MRLST: m ply-sb biky, silty-gy-med brn-tan, scat calc cal
MD: 14,553 TVD: 7,117.4 Inclination: 89.86 Azimuth: 87.29 VS: 7,705.11				
TVD (ft)				
MD: 14,642 TVD: 7,117.46 Inclination: 90.07 Azimuth: 88.71 VS: 7,793.92				

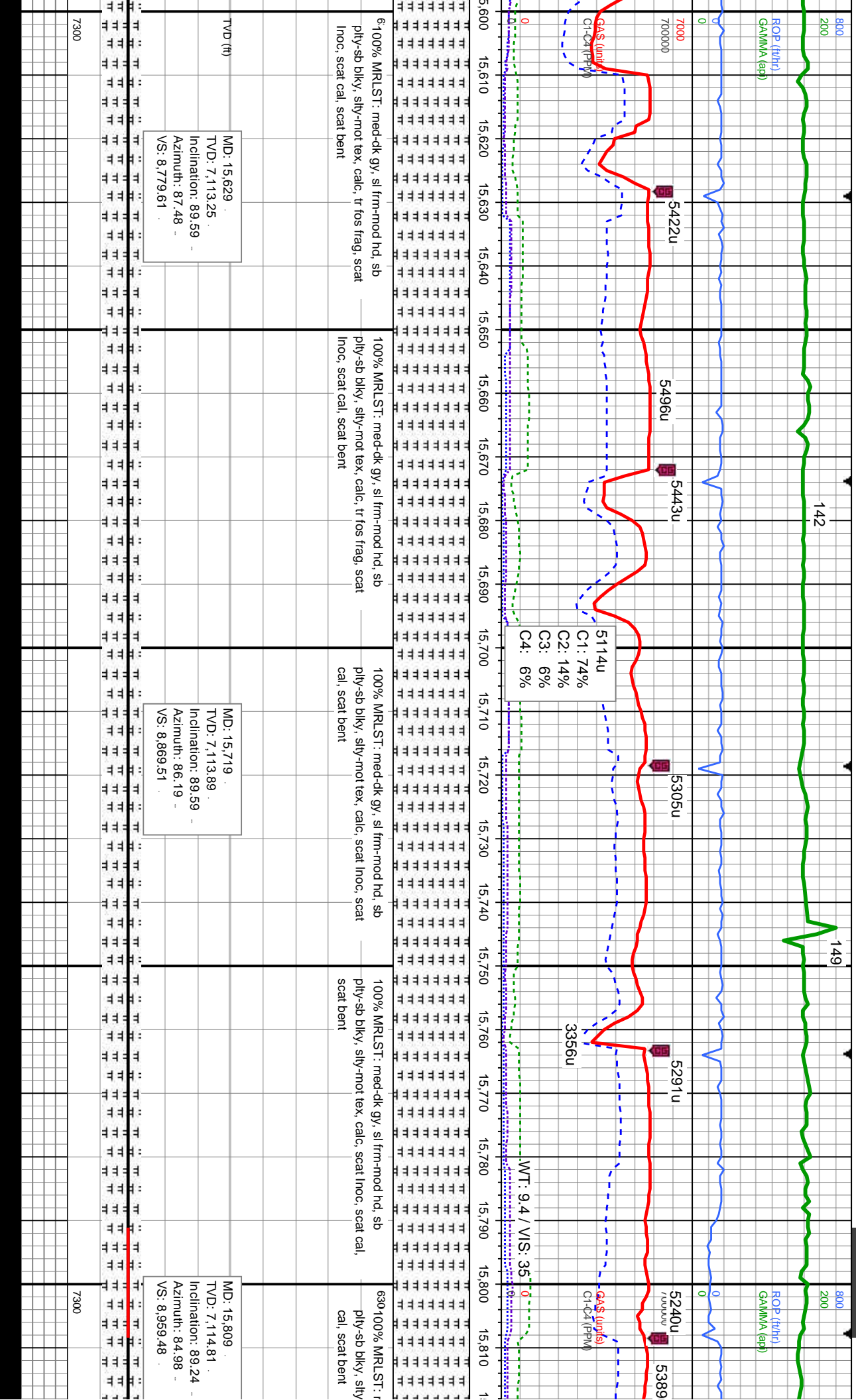
7300	
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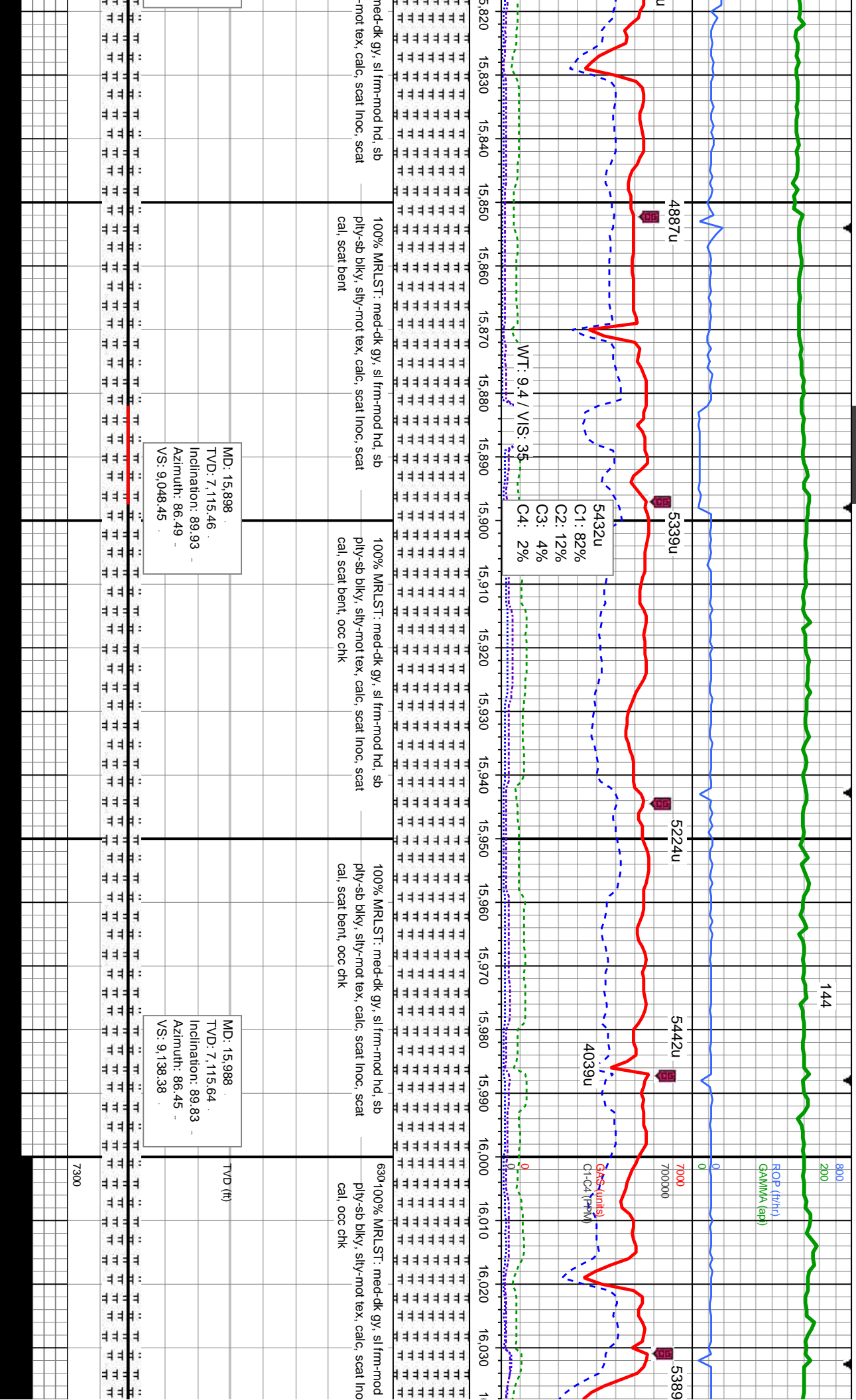


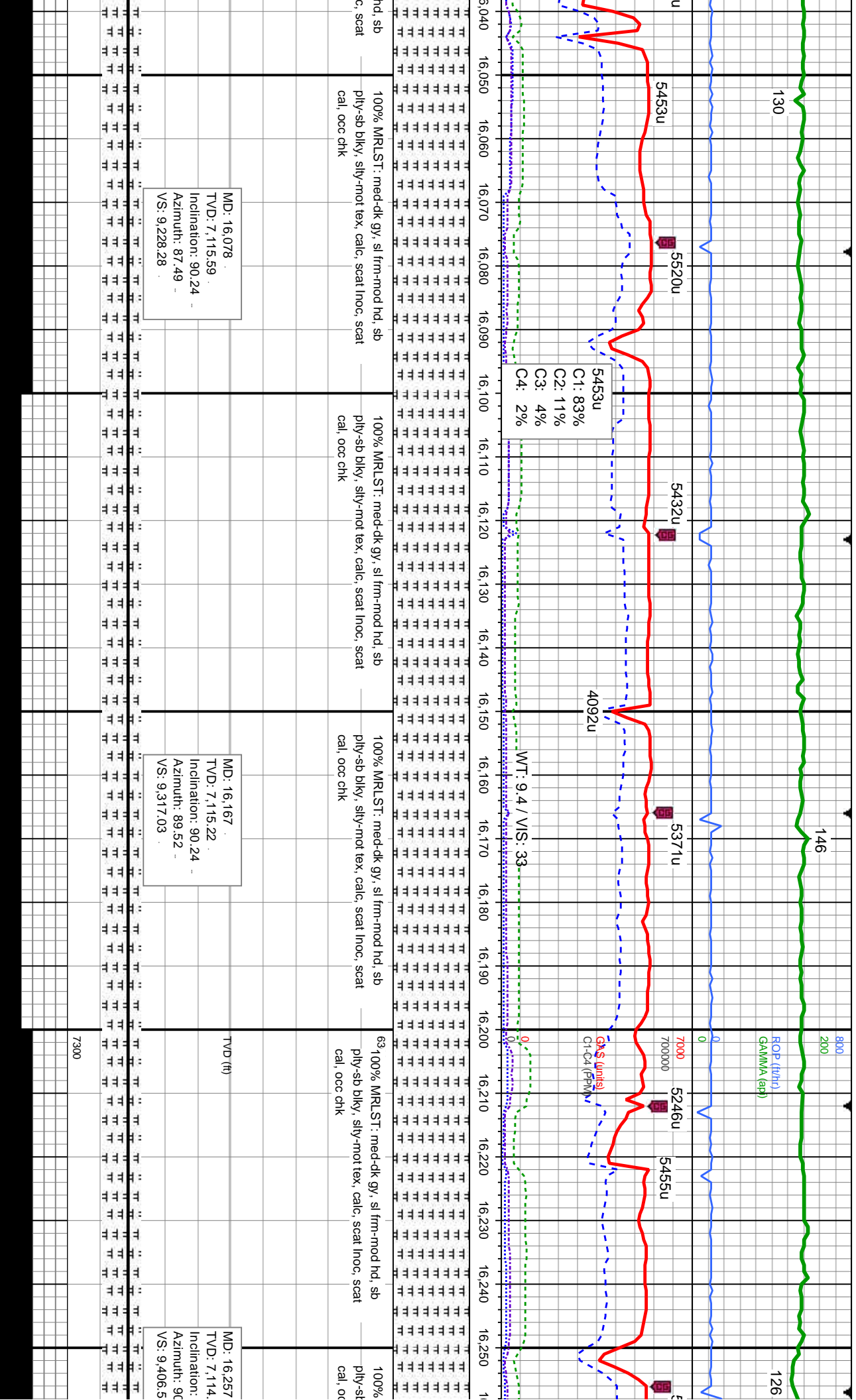


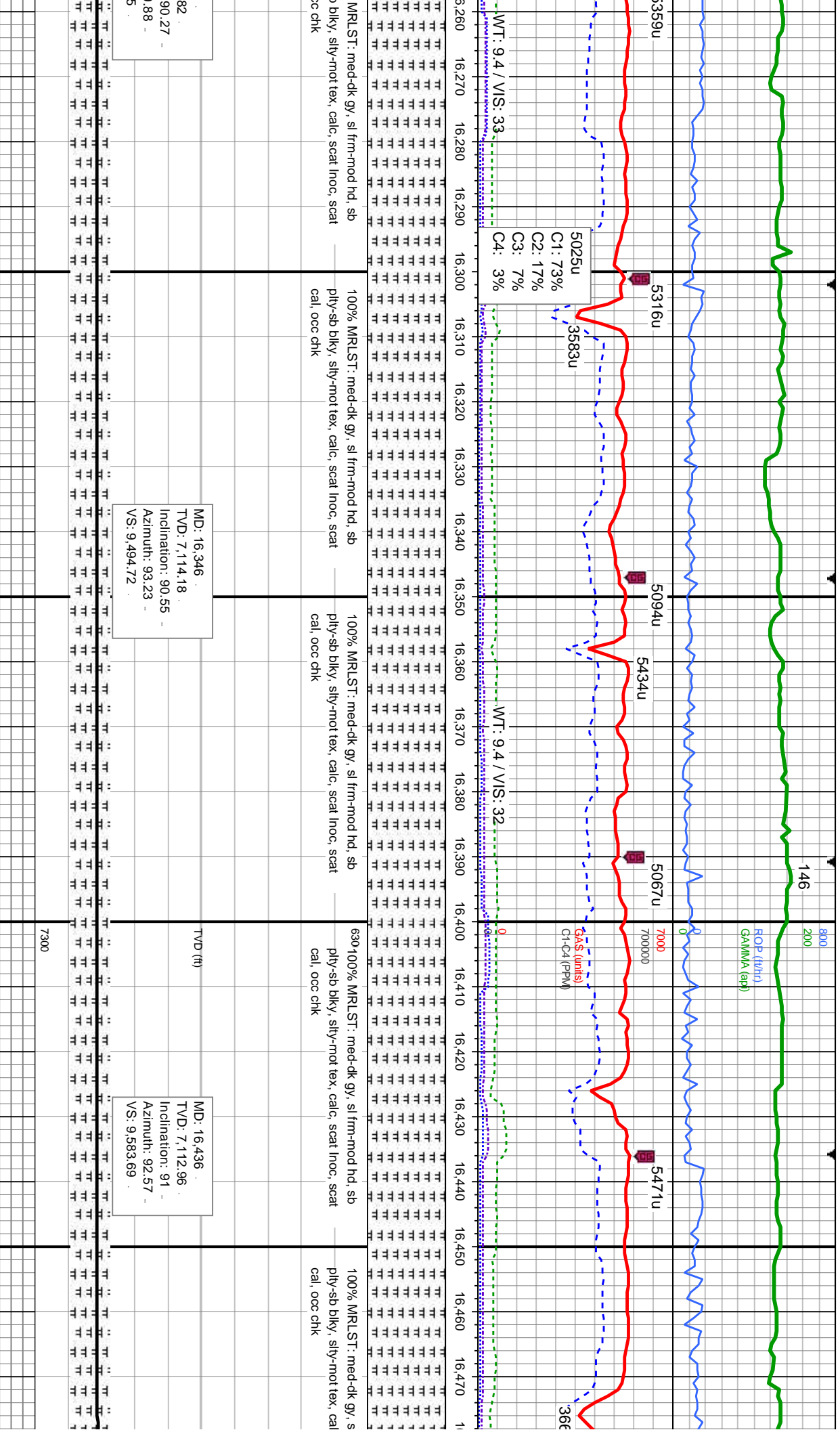






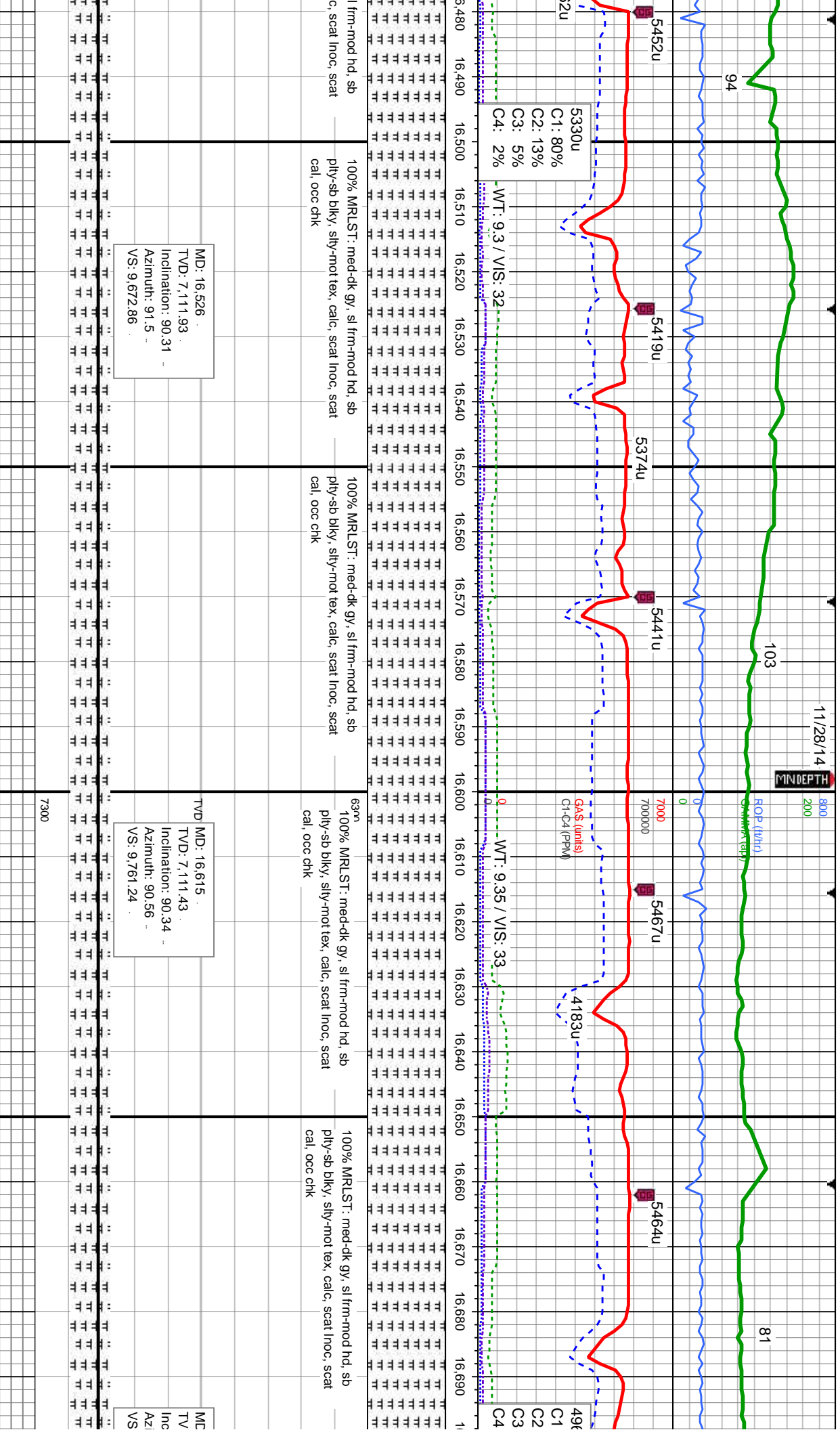


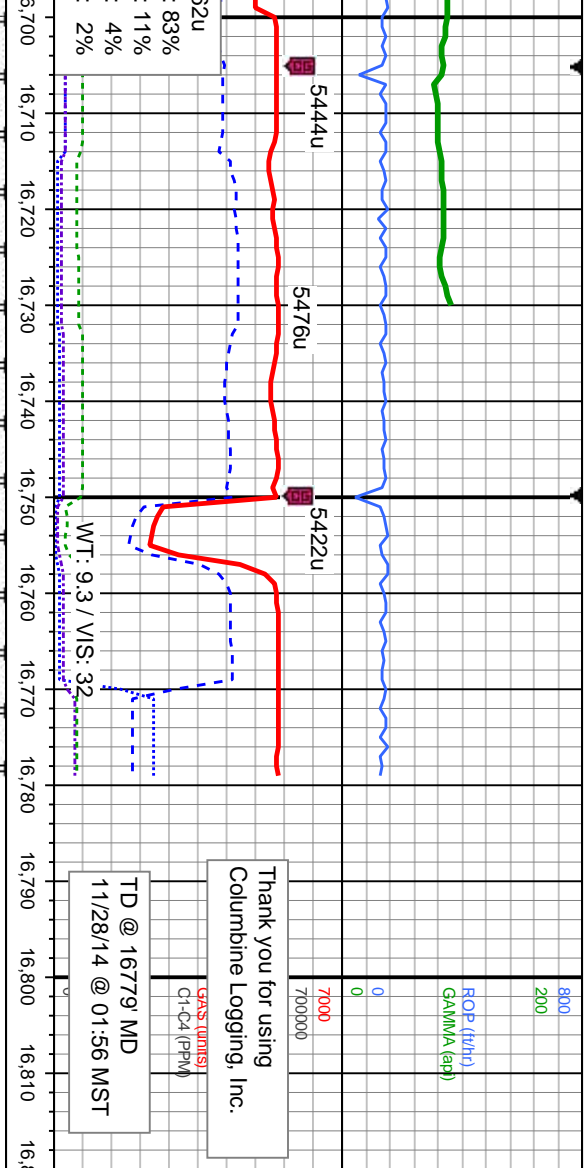




MD: 16,346
TVD: 7,114.18
Inclination: 90.55
Azimuth: 93.23
VS: 9,494.72

MD: 16,436
TVD: 7,112.96
Inclination: 91
Azimuth: 92.57
VS: 9,583.69





95% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc, tr fos frag: 5% CHK: med gy-med brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc, scat lnoc, scat cal	95% MRLST: med-dk gy, sl frm-mod hd, sb ply-sb blkly, silty-mot tex, calc, tr fos frag: 5% CHK: med gy-med brn, sl mot, sft-mod frm, sb ply-sb blkly, v calc, scat lnoc, scat cal	6300	
MD: 16,734 TVD: 7,110.98 Inclination: 90.14 Azimuth: 90.46 VS: 9,879.49		TVD (ft)	
MD: 16,779 TVD: 7,110.87 Inclination: 90.14 Azimuth: 90.46 VS: 9,924.23		7300	
PROJ TO BIT			