



Scale: 5" / 100'  
Measured Depth Log

Well Name Aggregate State 15N-16HZ

Location SEC 9 T2N R66W

State COLORADO

County WELD

Country UNITED STATES OF AMERICA

Rig Number ENSIGN 145

API Number 051233832900

AFE # 2086907

Region DJ BASIN

Field WATTENBERG

Spud Date 4/13/2014

Drilling Completed 4/27/2014

Surface Coordinates 2,389' FSL 970' FEL

Bottom Hole Coordinates 1' FSL 1,610' FEL

Ground Elevation 4,924'

K.B. Elevation 4,937'

Logged Interval 6,700' To 14,792'

Total Depth 14,792'

Formation Niobrara C

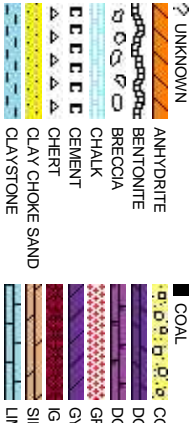
Type of Drilling Fluid FW LSND

Company Anadarko

Address 1099 18TH ST.  
Denver, CO 80202

Name LACEY LITTLE, JERAMY

Company COLUMBINE LOGGING, I  
Address 2385 S LIPAN ST.  
Denver, CO 80223



# Operator

# Geologist

MURRAY

INC.

## Rock Types

ANGLOMERATE	TT	TT	TT	TT	MARLSTONE	
LOMITE	X	X	X	X	METAMORPHIC NO SAMPLE	
LOMITIC LIMESTONE	GG	GG	GG	GG	SALT	
ANITE	GG	GG	GG	GG	SANDSTONE	
SCUM	GG	GG	GG	GG	SALT-PEPPER SAND	
MEOUS	GG	GG	GG	GG	SHALE	
HERITE or LIMONITE	GG	GG	GG	GG	SHALE COLORED	
ESTONE	GG	GG	GG	GG	SHALE GRAY	
SHALE	GG	GG	GG	GG	SHALE GRAY	
SALT-PEPPER SAND	GG	GG	GG	GG	SHALE GRAY	
SHALE COLORED	GG	GG	GG	GG	SHALE GRAY	
SHALE GRAY	GG	GG	GG	GG	SHALE GRAY	
SHALE GRAY	GG	GG	GG	GG	SHALE GRAY	
SHALE GRAY	GG	GG	GG	GG	SHALE GRAY	
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SHALE GRAY	GG	GG	GG	GG	SHALE GRAY	
SHALE GRAY	GG	GG	GG	GG	SHALE GRAY	
SHALE GRAY	GG	GG	GG	GG	SHALE GRAY	
SHALE GRAY	GG	GG	GG	GG	SHALE GRAY	
SHALE GRAY	GG	GG	GG	GG	SHALE GRAY	
SHALE GRAY	GG	GG	GG	GG	SHALE GRAY	
SHALE GRAY	GG	GG	GG			

## Accessories

# Fossils

Symbol	Material	Symbol	Material	Symbol	Material
	GASTROPOD		ARGILLITE GRAIN		HEAVY MINERAL
	INOCERAMUS		B BENTONITE		KAOLIN
	OOLITE		BITUMINOUS SUBSTANCE		MARLSTONE
	OSTRACOD		BRECCIA FRAGMENTS		MICACEOUS
	PELLET		CALCAREOUS		MINERAL CRYSTALS
	PI SOLITE		CARBONACEOUS FLAKES		NODULES
	PLANT REMAINS		CHERT		PHOSPHATE PELLETS
	PLANT SPORES		COAL - THIN BEDS		SALT CAST
	SCAPHOPOD		DOLOMITIC		SANDY
	STROMATOPORA		FELDSPAR		SILICEOUS
			FERRUGINOUS PELLET		SILTY
					COAL STRINGER
					DOLomite STRINGER
					GYPSUM STRINGER
					LIMESTONE STRINGER
					MARLSTONE (CALC.) STRINGER
					MARLSTONE (DOL.) STRINGER
					SANDSTONE STRINGER
					SHALE STRINGER
					SILTSTONE STRINGER









## Minerals

✓	TUFFACEOUS	Stringer
✗	FERRUGINOUS	
✗	GLAUCONITE	
✗	GYPSEFEROUS	
✗	minerals	
✗	FISH	
✗	FORAMINIFERA	
✗	ANHYDRITIC	
✗	F FOSSIL	
✗	ARGILLACEOUS	

**Springer**

## Other Symbols

## Oil Show











	P	PINPOINT
	V	VUGGY
	F	FAULT
	D	DST INTERVAL
	W	WIRELINE TESTED - LEFT
	E	EARTHY
	W	WIRELINE TESTED - RT
	F	FINELYXLN

# Engineering

## Rounding

**Rounding**

## Porosity

	CONNECTION (DOWN)		ANGULAR		P3 PACKSTONE
	CONNECTION GAS		NORMAL FAULT		W5 WACKESTONE
	CONNECTION GAS (LEFT)		OVERTURNED STRATA		
	TRIP GAS		REVERSE FAULT		

Sorting

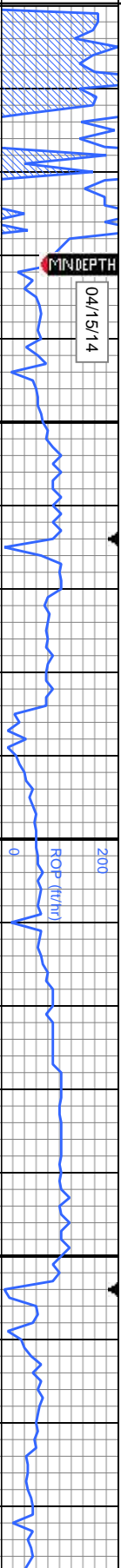
## Sorting

## Textures

	INTERCRYSTALLINE		DOWN TIME GAS		SIDEWALL CORE (LEFT)		BOUNDSTONE		POOR
	INTERCOLLITIC		DOWN TIME GAS (LEFT)		SIDEWALL CORE (RIGHT)		CHALKY		WELL
	MOLDIC		CORE - LOST		SLIDE				
	ORGANIC		CORE - RECOVERED		SURVEY		CRYPTOXIN		

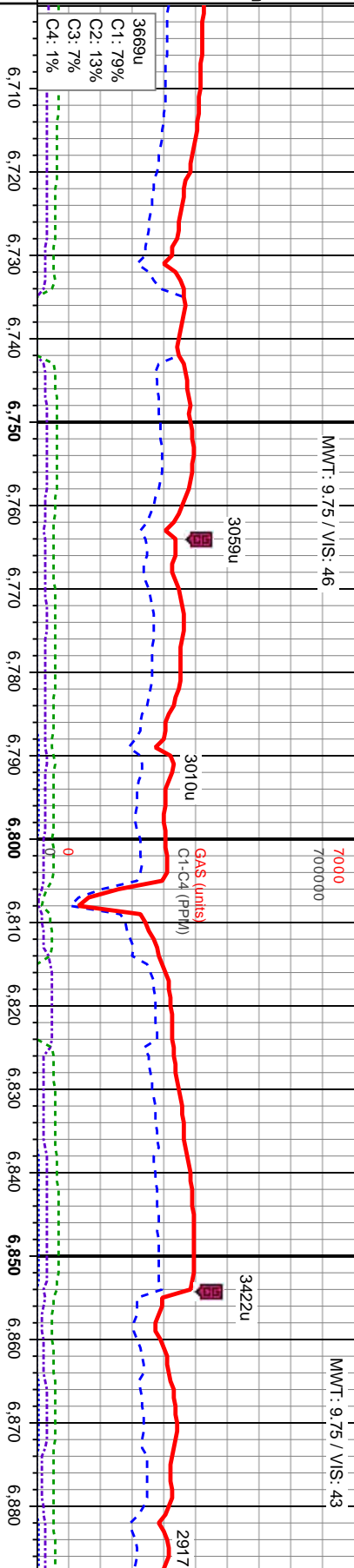
Slide/Rotate

ROP  
ROP



Total Gas & Chromatograph

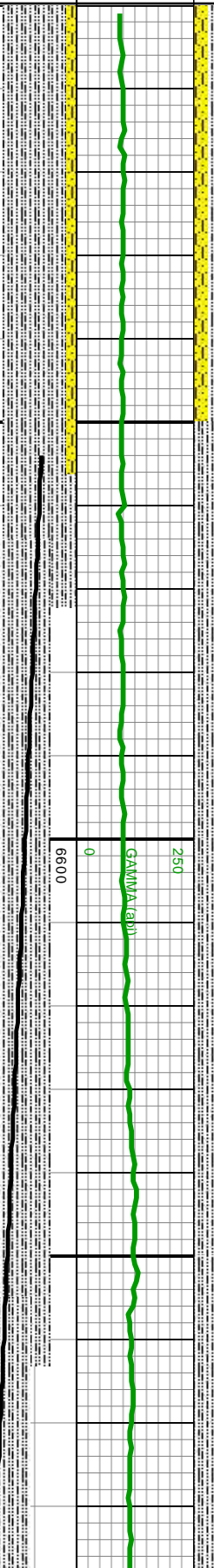
GAS  
C1  
C2  
C3  
C4



Depth Labels

% Lith

Curves  
GAMMA



Well Bore  
TVD

COLUMBINE LOGGING 04/14/2014  
MANNED 2-PERSON LOGGING  
WITH BLOODHOUND GAS  
CHROMATOGRAPH UNIT #314

BIT 8.75  
SMITH SD1611  
3 x 16 JETS  
DEPTH IN: 1.039'

MD: 6,754  
TVD: 6,700.4  
Inclination: 2.82  
Azimuth: 210.28

MD: 6,799  
TVD: 6,745.3  
Inclination: 4.94  
Azimuth: 194

MD: 6,844  
TVD: 6,790  
Inclination: 8.13  
Azimuth: 192.25

MD: 6,844  
TVD: 6,790  
Inclination: 8.13  
Azimuth: 192.25

85% SLTY SH: med - dk gy, mod frm - frm, silty  
tex, pily - sb blkly, vfg, non calc; 15% SHY SS: wh  
lt gy, s&p, v frm - hd, gran tex, ang - sb rnd, f -  
med gr, tr pyr; O SHW: thn mod bri yel/wh cut,  
fast thk mky bl/wh string, mod sin, mod o

100% SLTY SH: lt - med gy, mod sft - v frm, silty  
tex, pily - sb blkly, vfg, non calc, tr shy ss, tr pyr,  
tr mica; O SHW: thn mod bri yel/wh cut, fast thk  
mky bl/wh string, tr sin, tr o

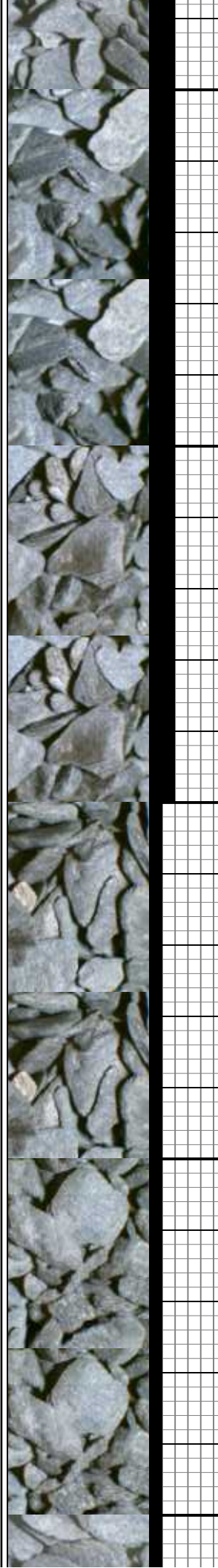
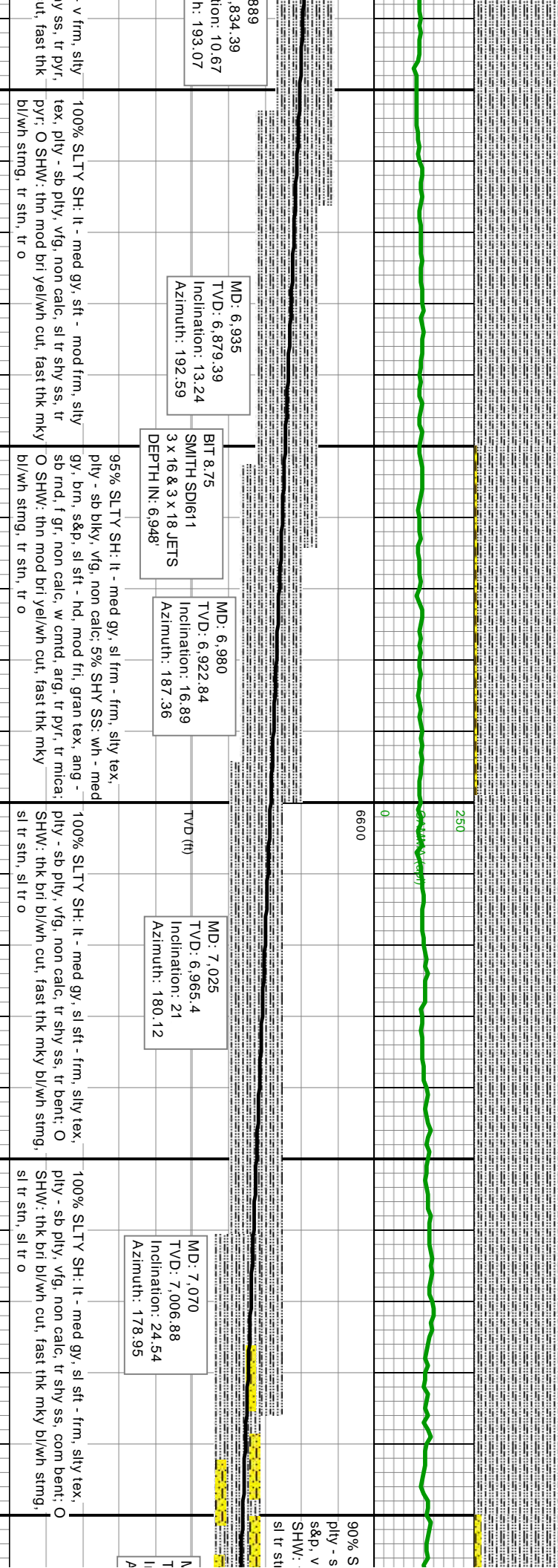
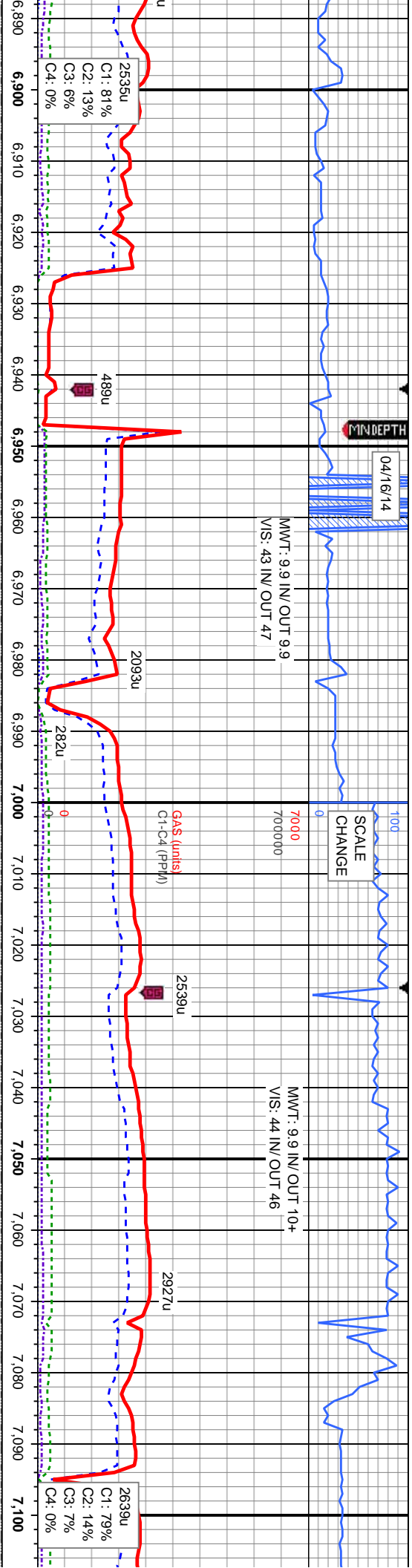
100% SLTY SH: lt - med gy, mod sft  
tex, pily - sb blkly, vfg, non calc, tr shy ss, tr pyr,  
tr mica; O SHW: thn mod bri yel/wh cut, fast thk  
mky bl/wh string, tr sin, tr o

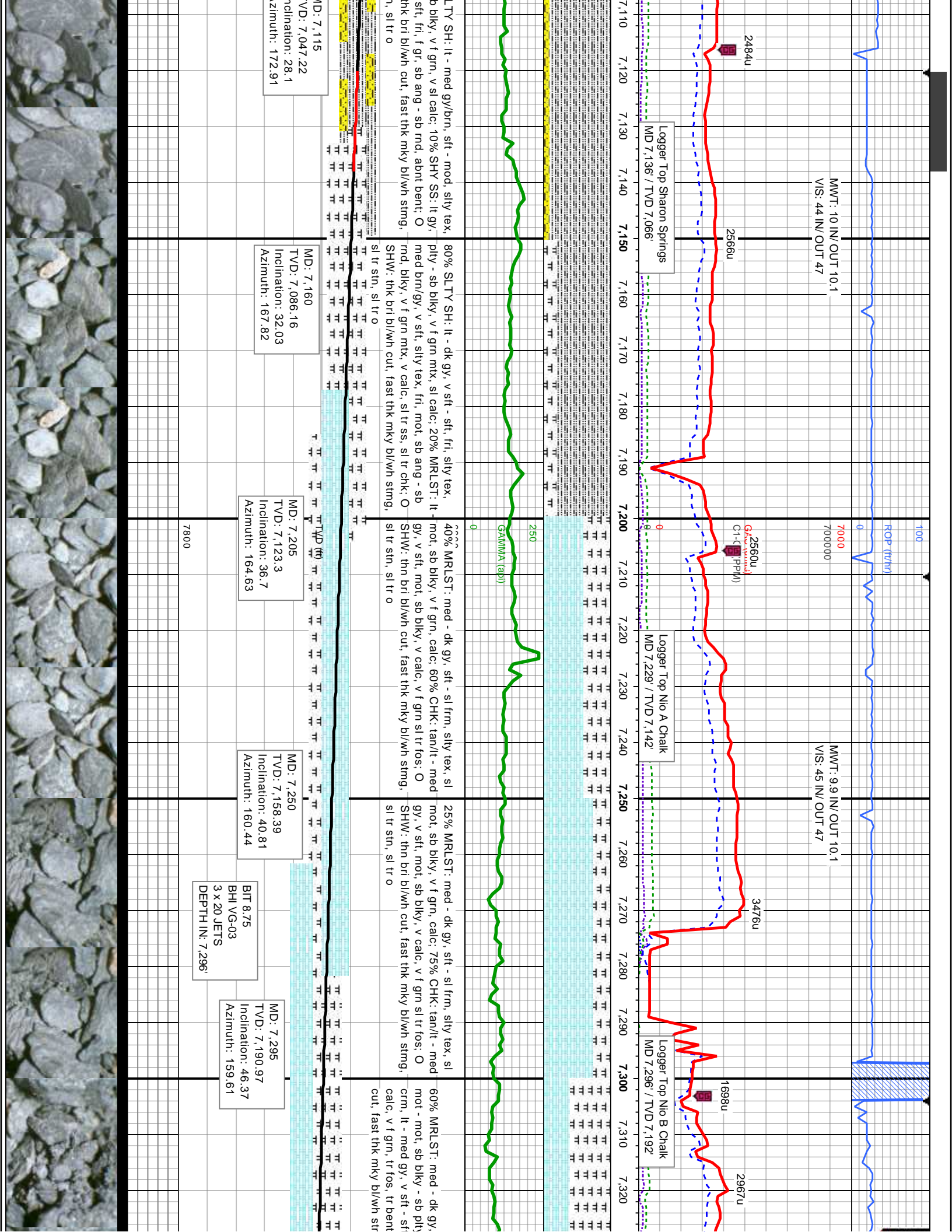
Oil Show

E  
G  
M  
FR  
TR  
SL

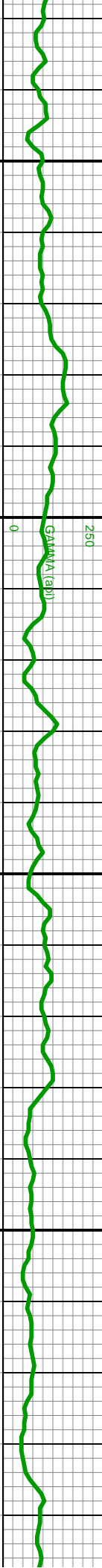
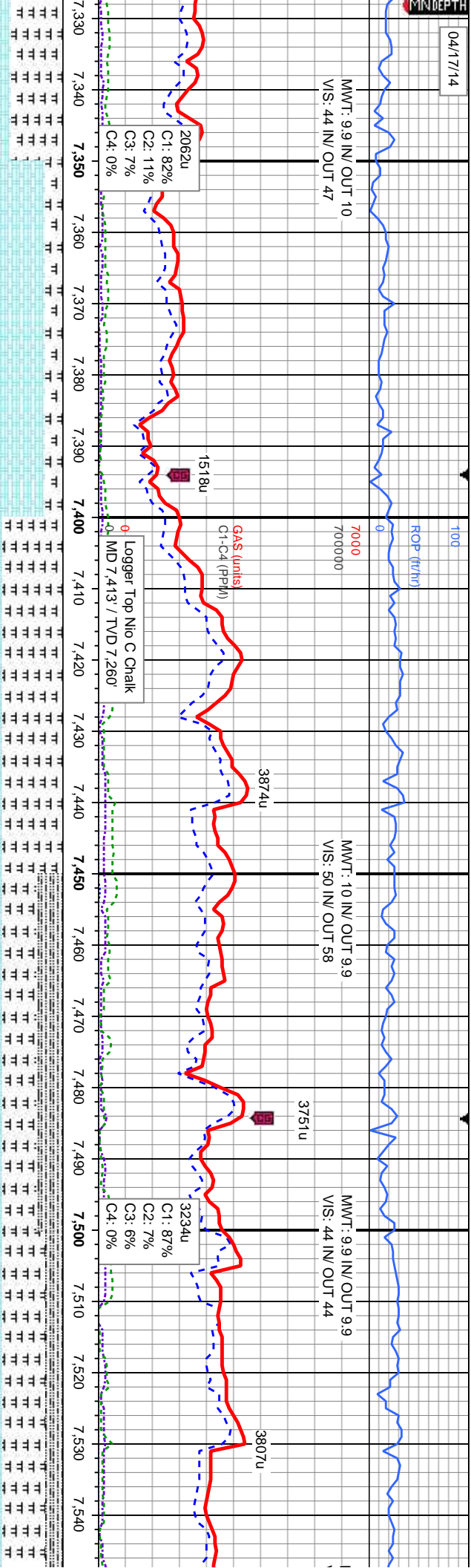
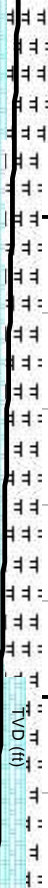
Images







MINDEPTH

[illegible]

MD: 7,340  
TVD: 7,220.4  
Inclination: 51.95  
Azimuth: 165.29

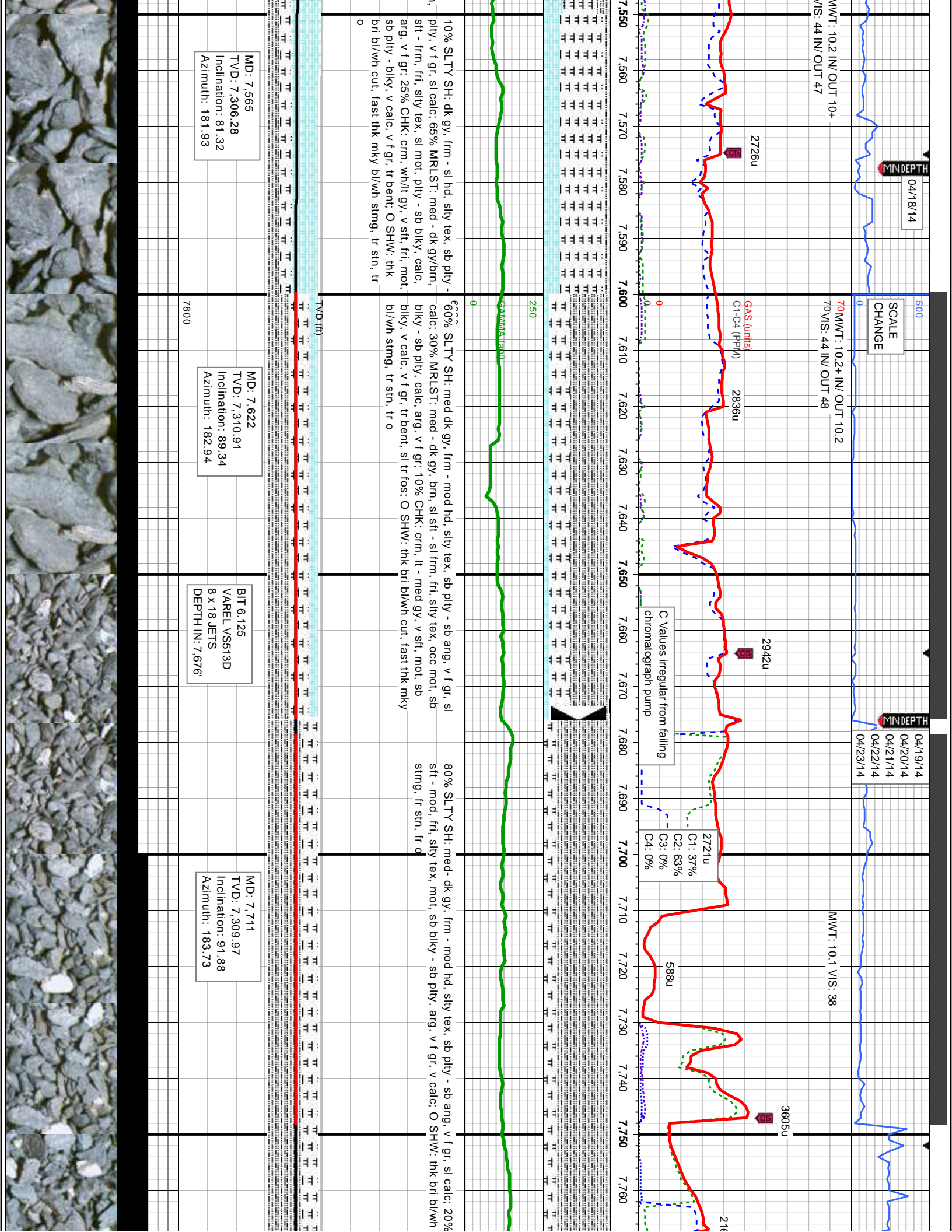
MD: 7,385  
TV D: 7,246.34  
Inclination: 57.64  
Azimuth: 169.5

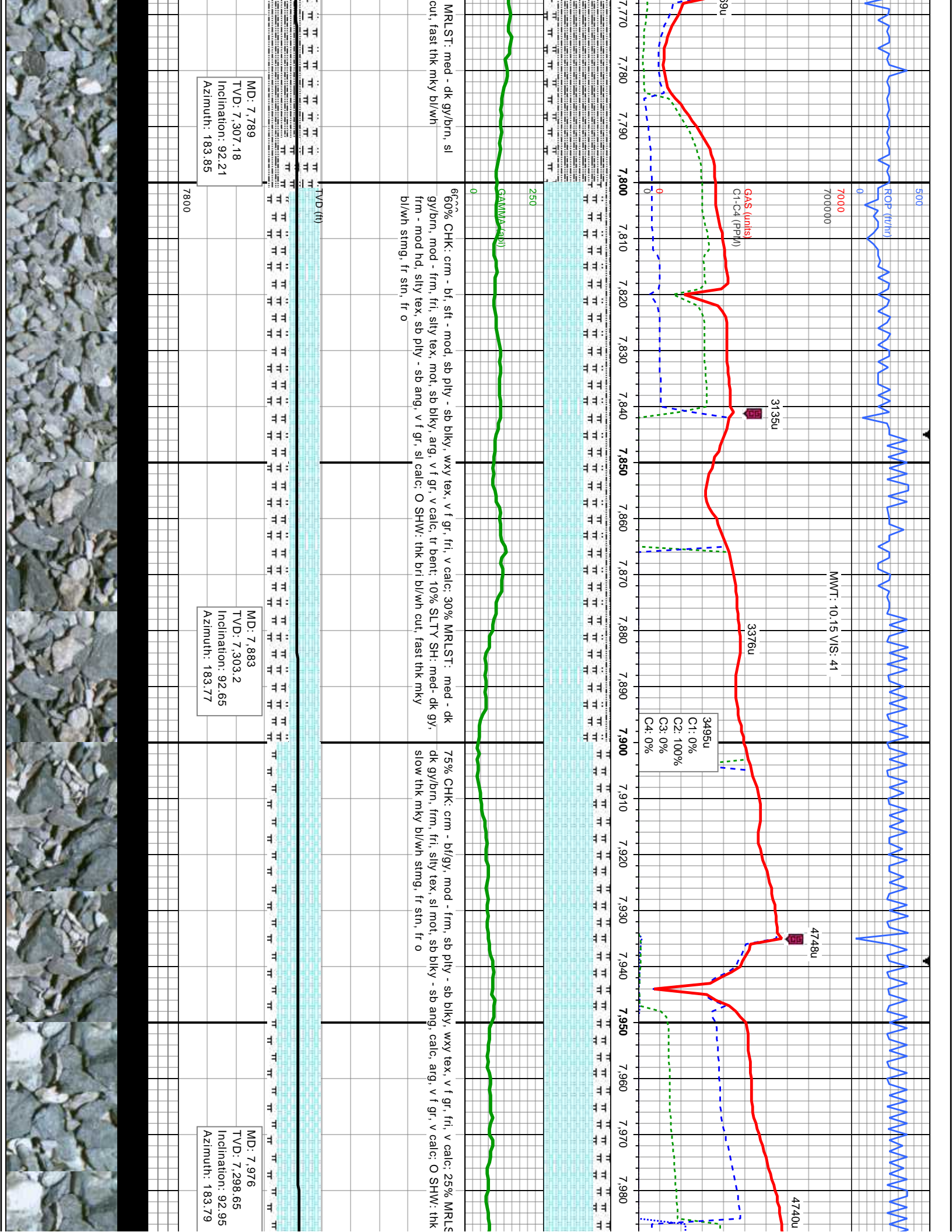
MD: 7,430  
TVD: 7,267.8  
Inclination: 65.37  
Azimuth: 171.48

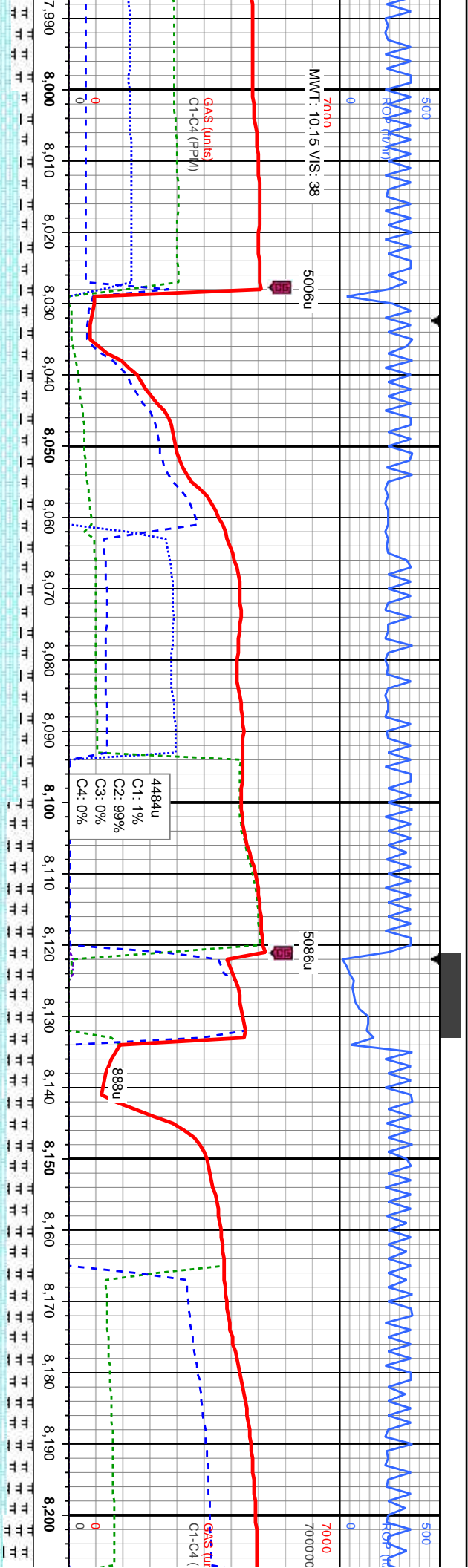
MD: 7,475  
TVD: 7,284.36  
Inclination: 71.43  
Azimuth: 176.07

MD: 7,520  
TVD: 7,297.2  
Inclination: 75.41  
Azimuth: 178.68







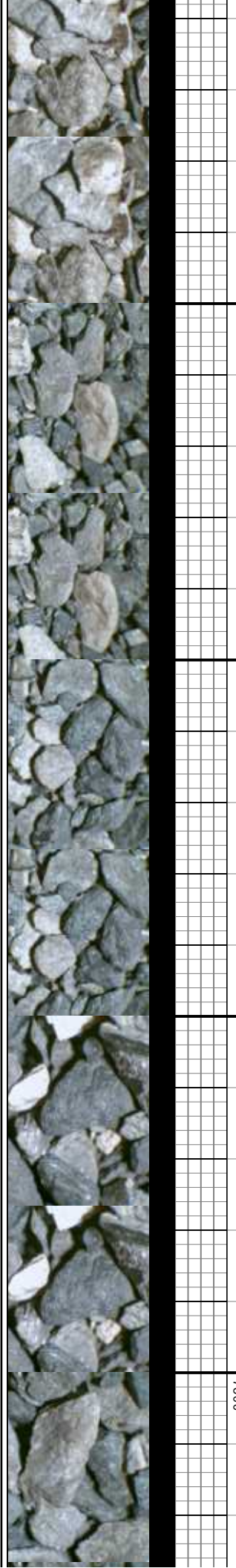
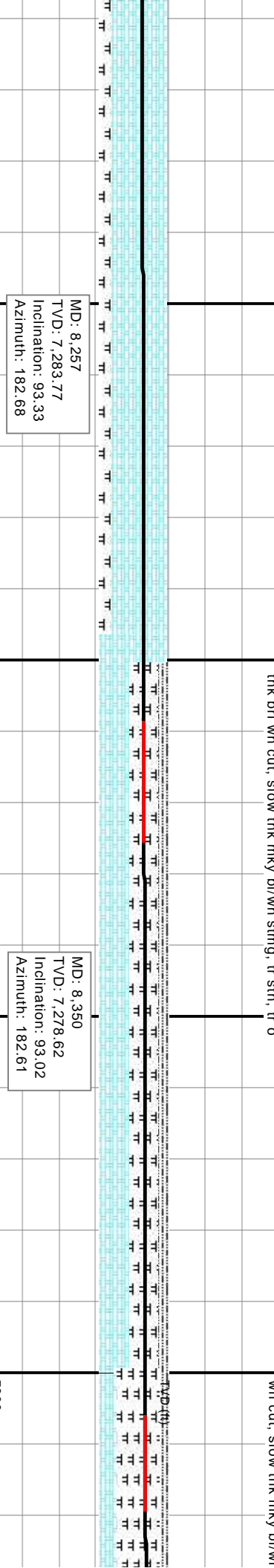
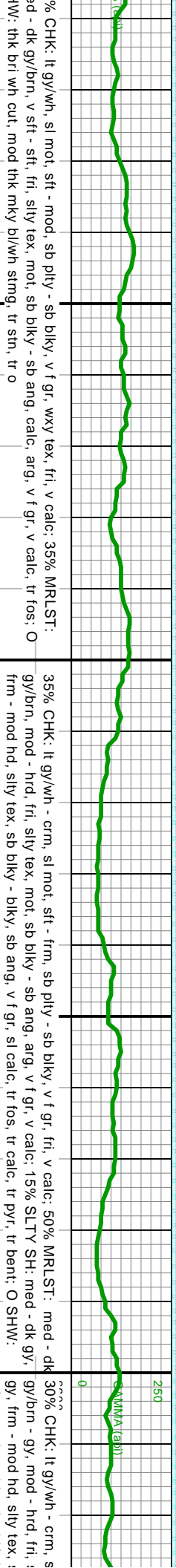
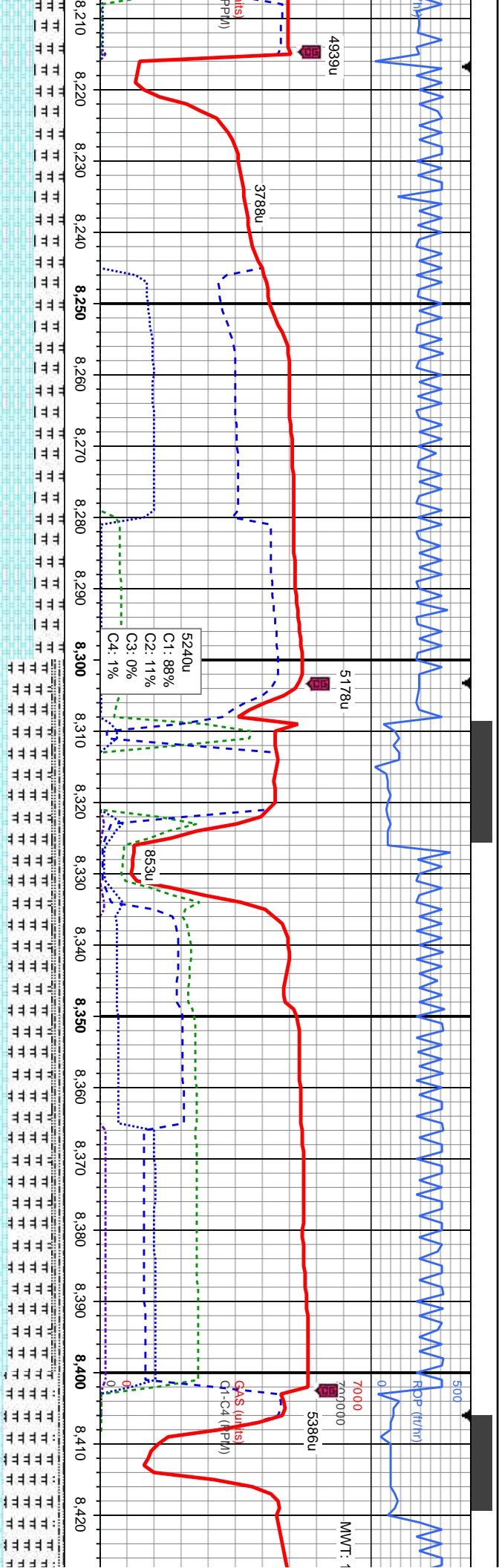


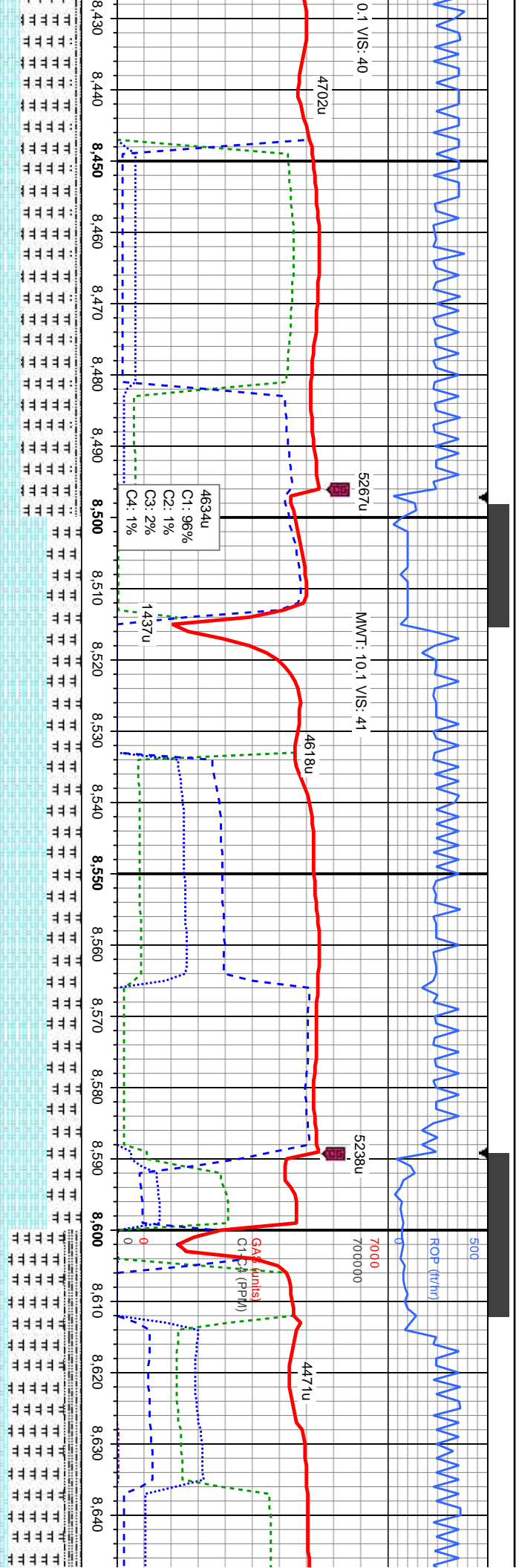
685% CHK: crm - b/fgy, mod - frm, small sb ply - sb blk, v f gr, wxy tex, fri, v calc; 15% MRLST: med - dk gy/brn, frm, fri, silty tex, sl mot, sb blk - sb ang, calc, arg, v f gr, v calc; O SHW: thk brl wh cut, slow thk mky bl/wh stmg, mod stn, mod o

70% CHK: lt gy/wh, sft - mod, sb ply - sb blk, v f gr, wxy tex, fri, v calc; 30% MRLST: med - dk gy/brn, v sft - sft, fri, silty tex, mot, sb blk - sb ang, calc, arg, v f gr, v calc, tr fos; O SHW: thk brl wh cut, slow thk mky bl/wh stmg, fr stn, fr o

TVD (ft)		TVD (ft)	
7800		7800	
MD: 8.070 TVD: 7.293.38 Inclination: 93.48° Azimuth: 183.12°		MD: 8.163 TVD: 7.288.54 Inclination: 92.49° Azimuth: 183.15°	

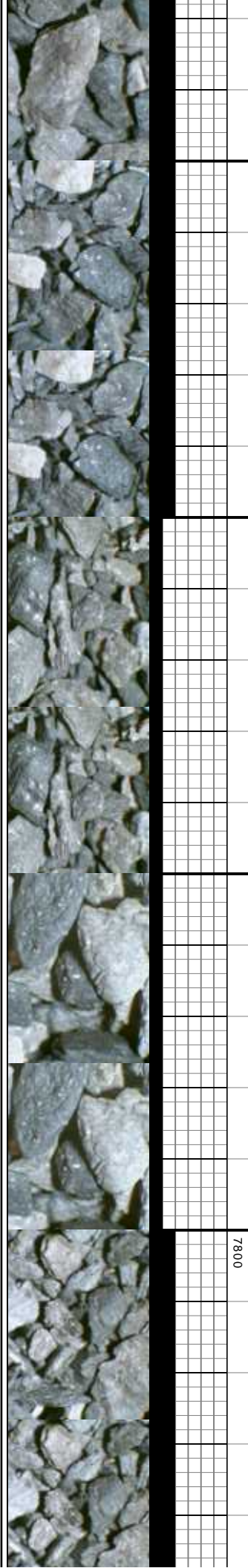
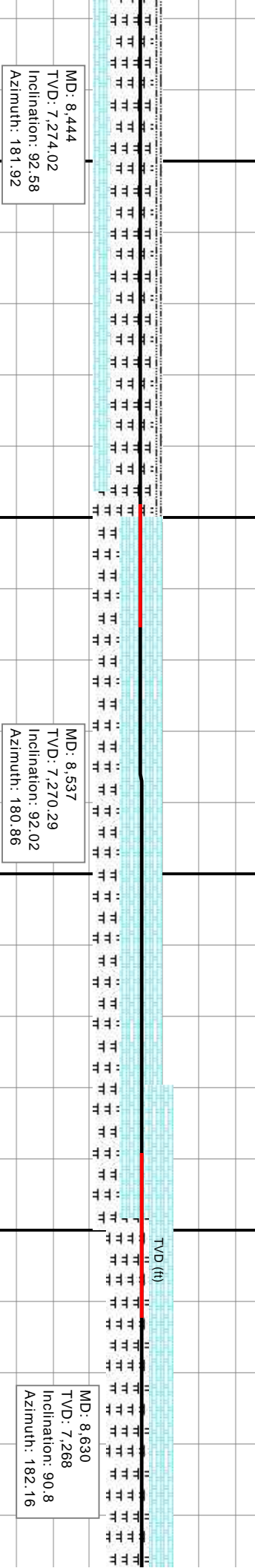


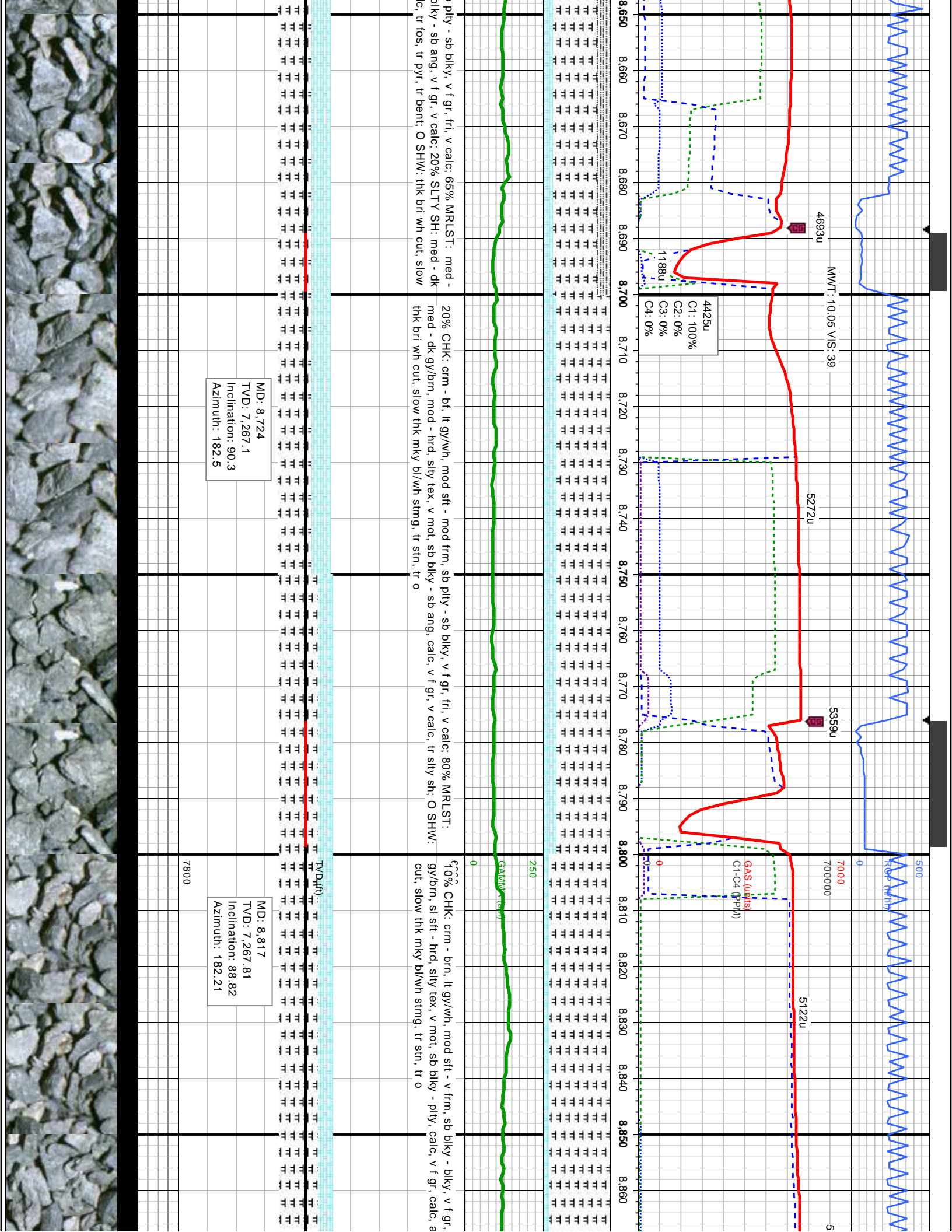


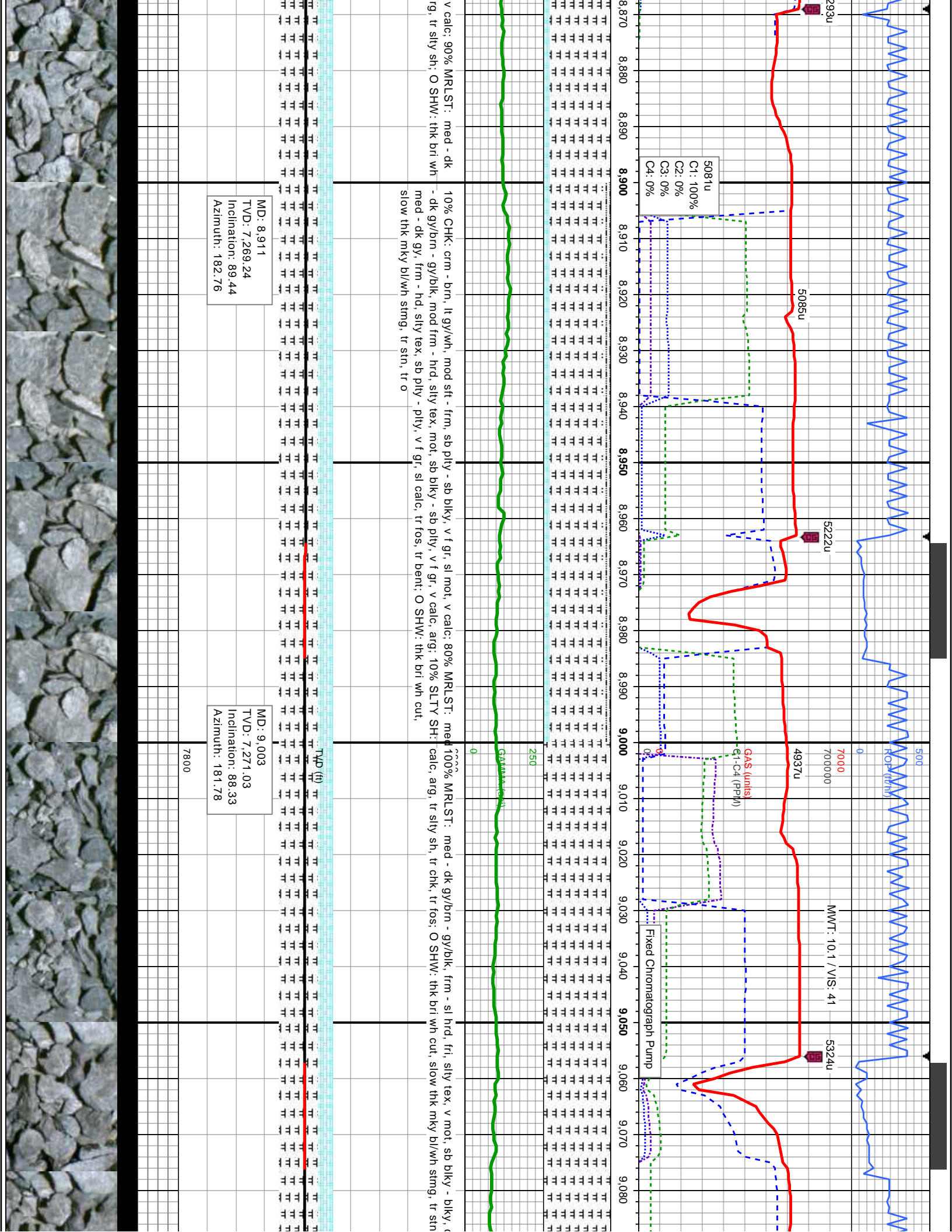


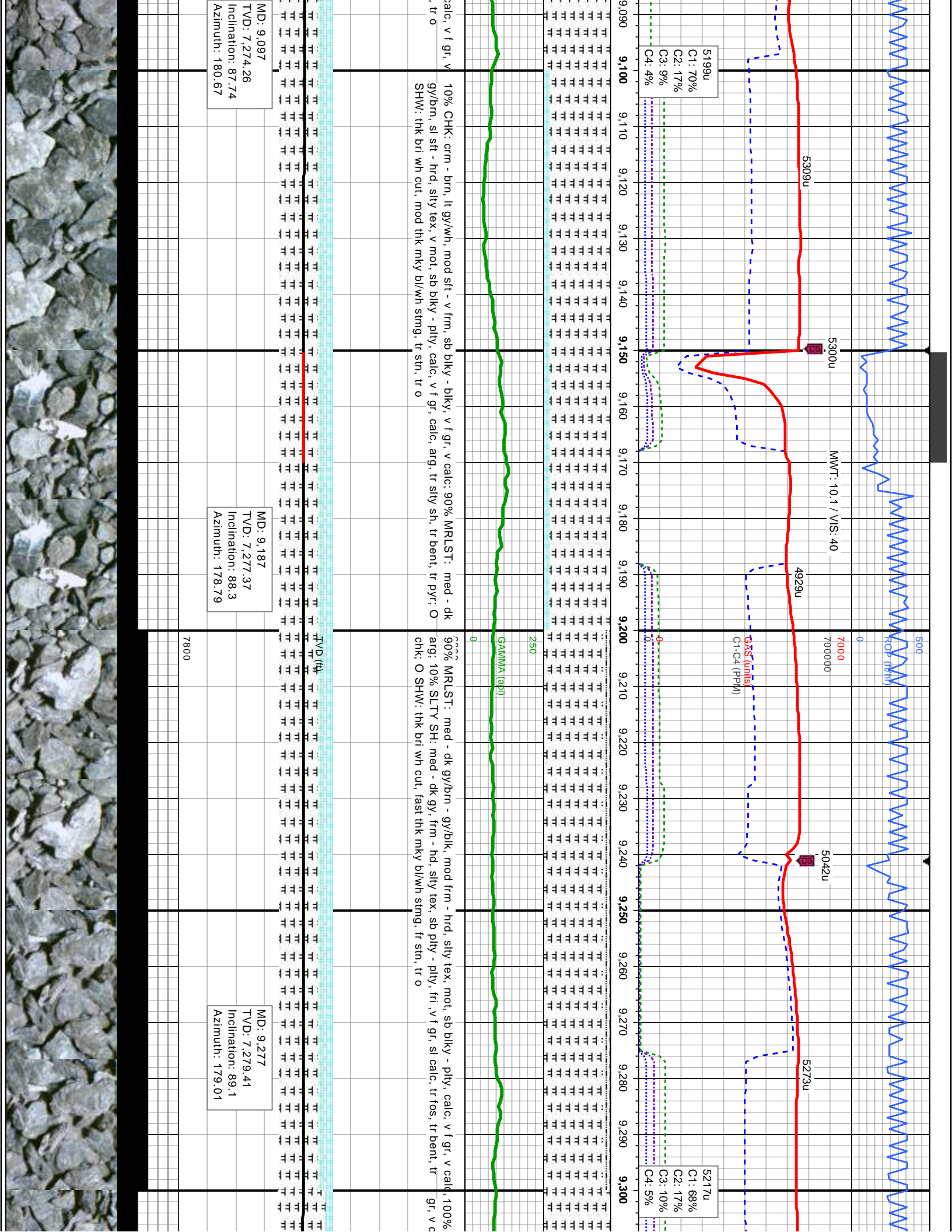
mot, mod - frm, sb ply - sb blk, v f gr, fri, v calc; 60% MRLST: med - dk 60% CHK: crm - bf, lt gy/wh, sl mot, wxy tex, mod - frm, sb ply - sb blk, v f gr, fri, v calc; 40%  
dk gy/brn - gy/blk, mod - hrd, sily tex, mot, sb l  
fry, frm - hd, sily tex, sb ply - blk, v f gr, sl ca  
stmg, tr stn, tr o

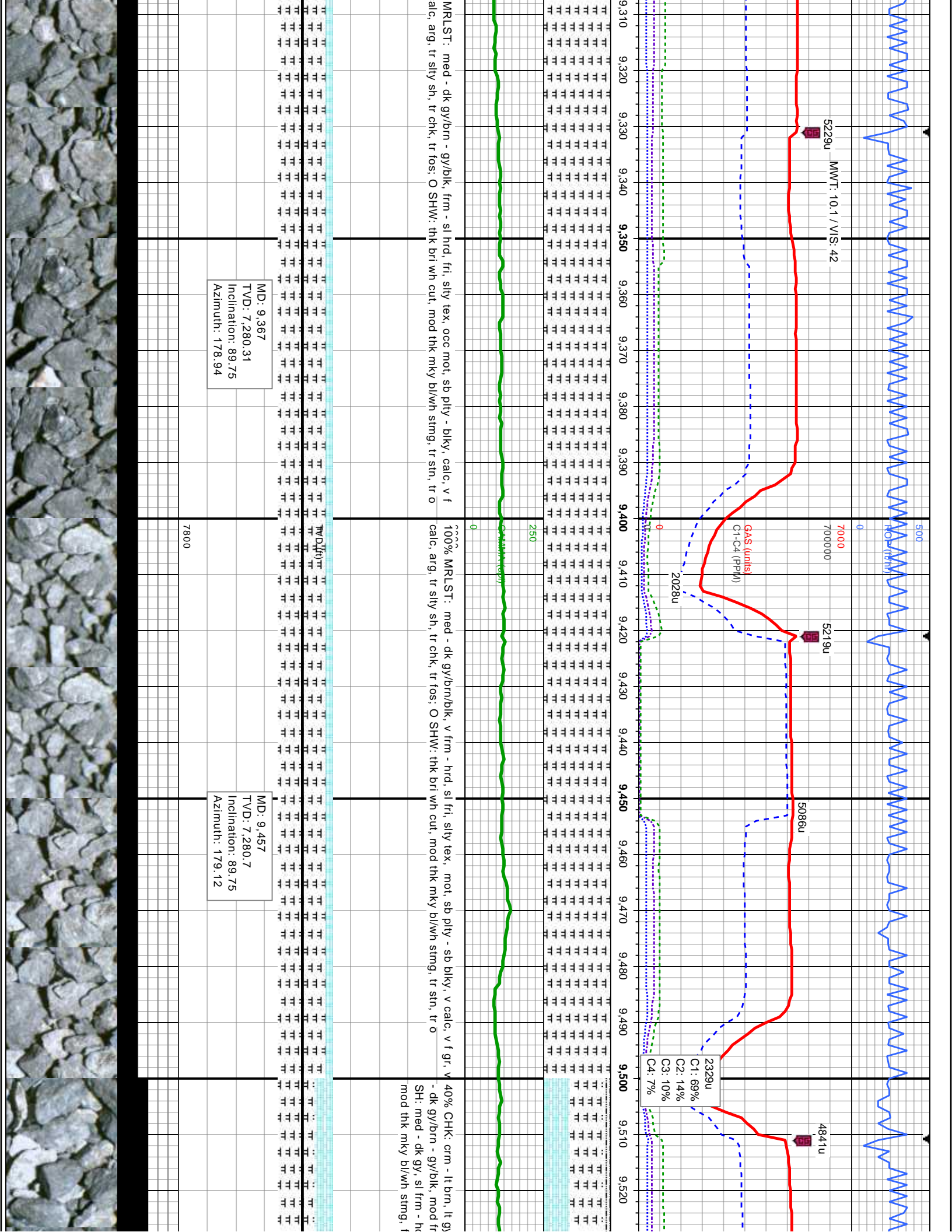
15% CHK: crm - bf, lt gy/wh, mod - mod frm, st  
dk gy/brn - gy/blk, mod - hrd, sily tex, mot, sb l  
fry, frm - hd, sily tex, sb ply - blk, v f gr, sl ca  
stmg, tr stn, tr o

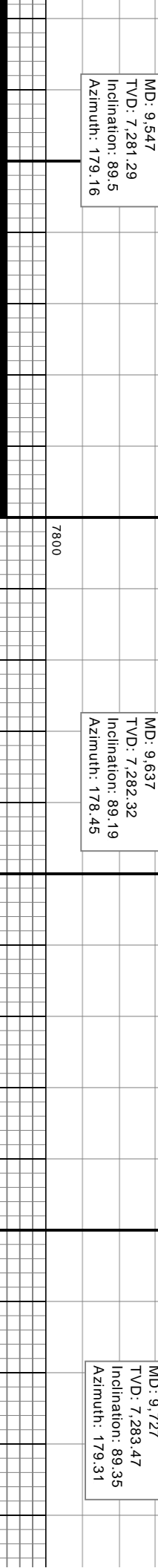
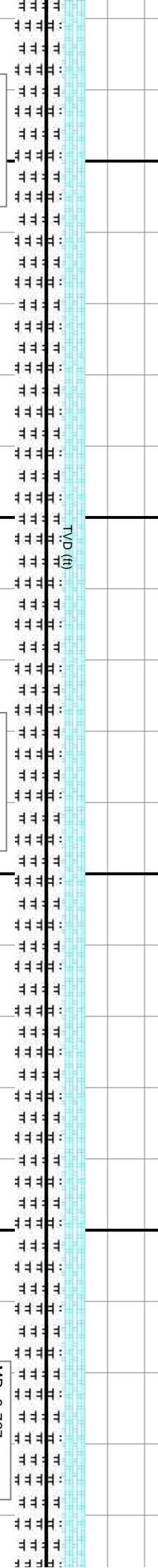
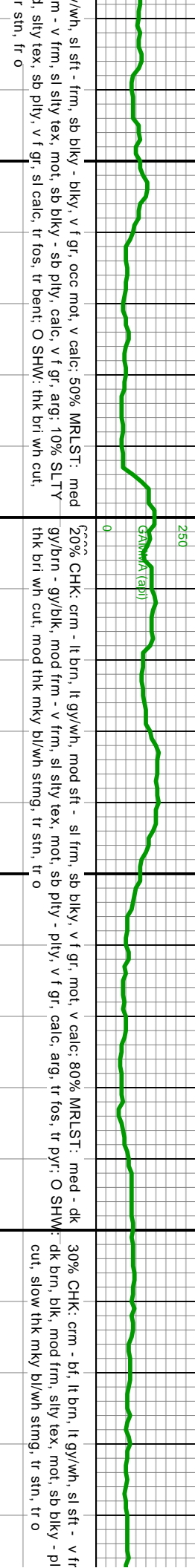
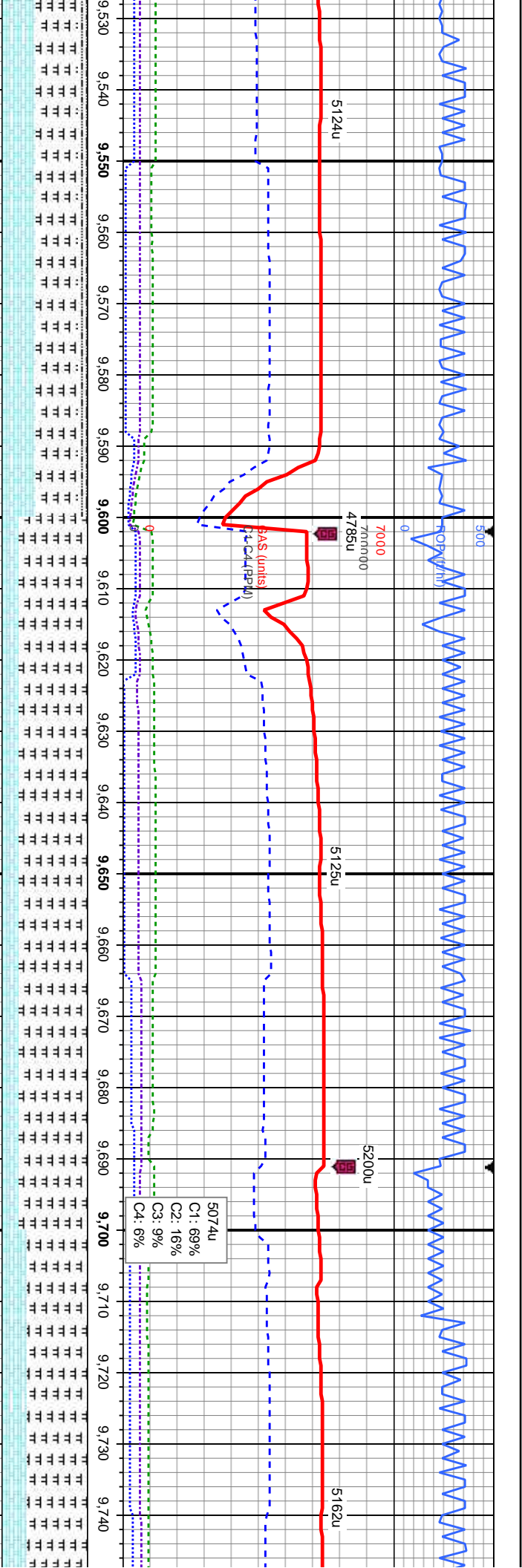


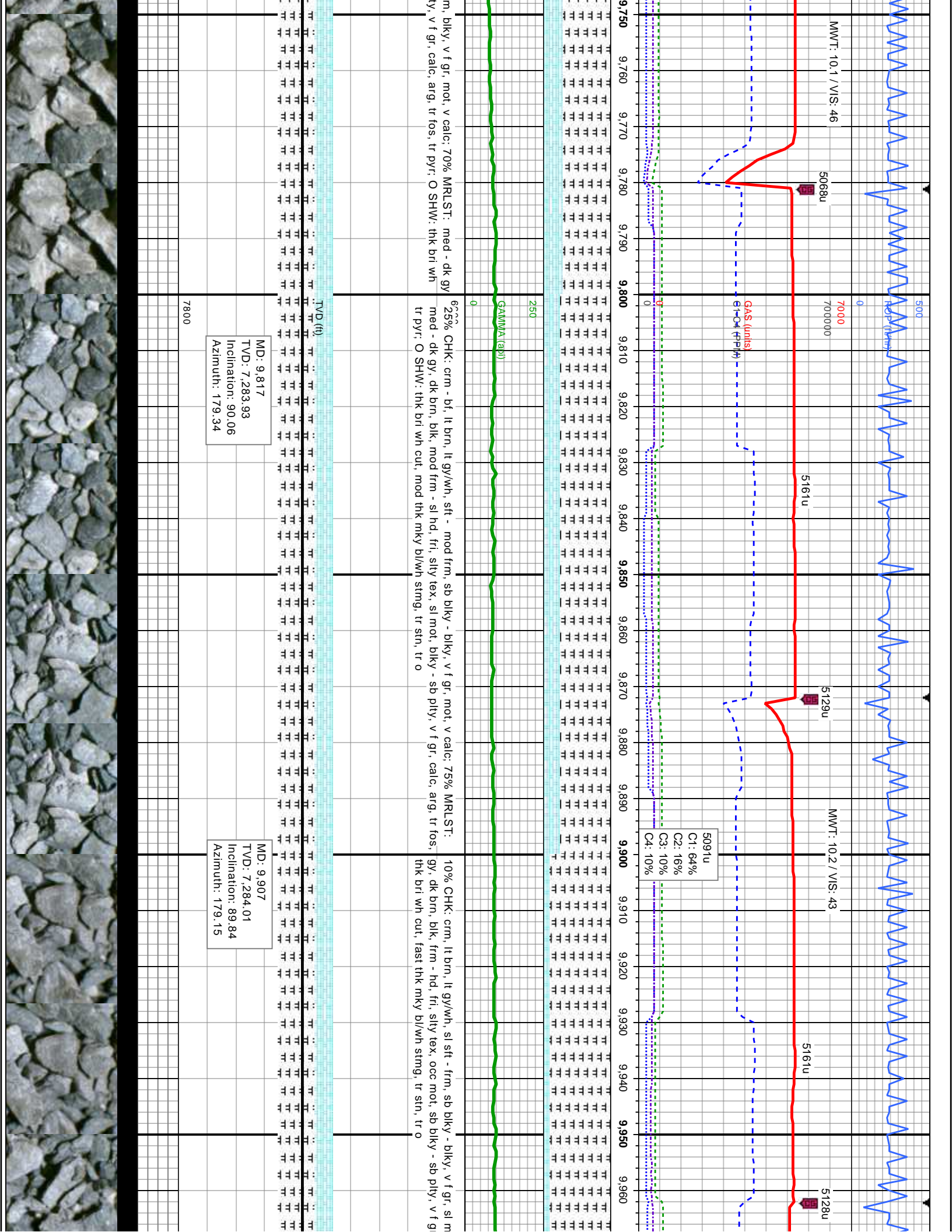


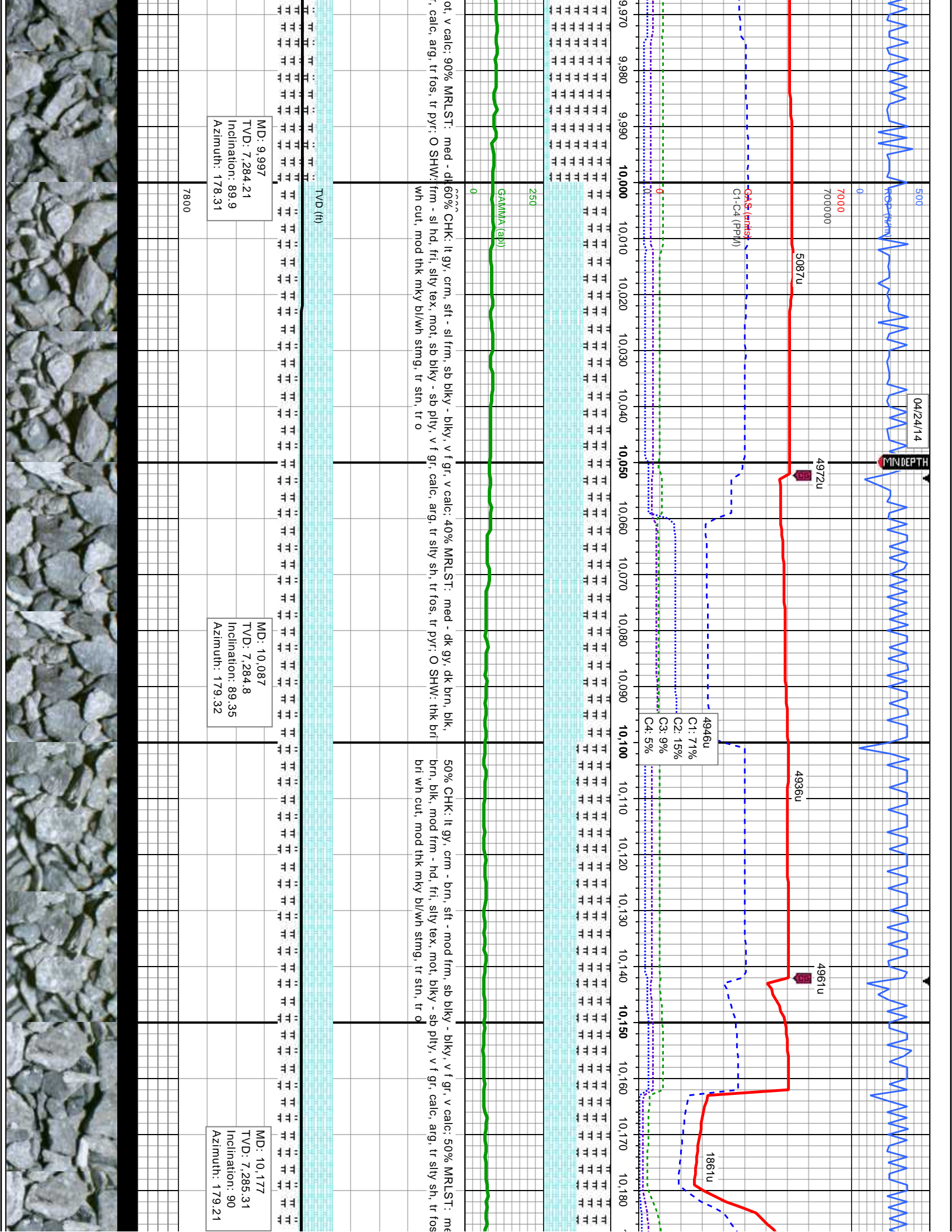




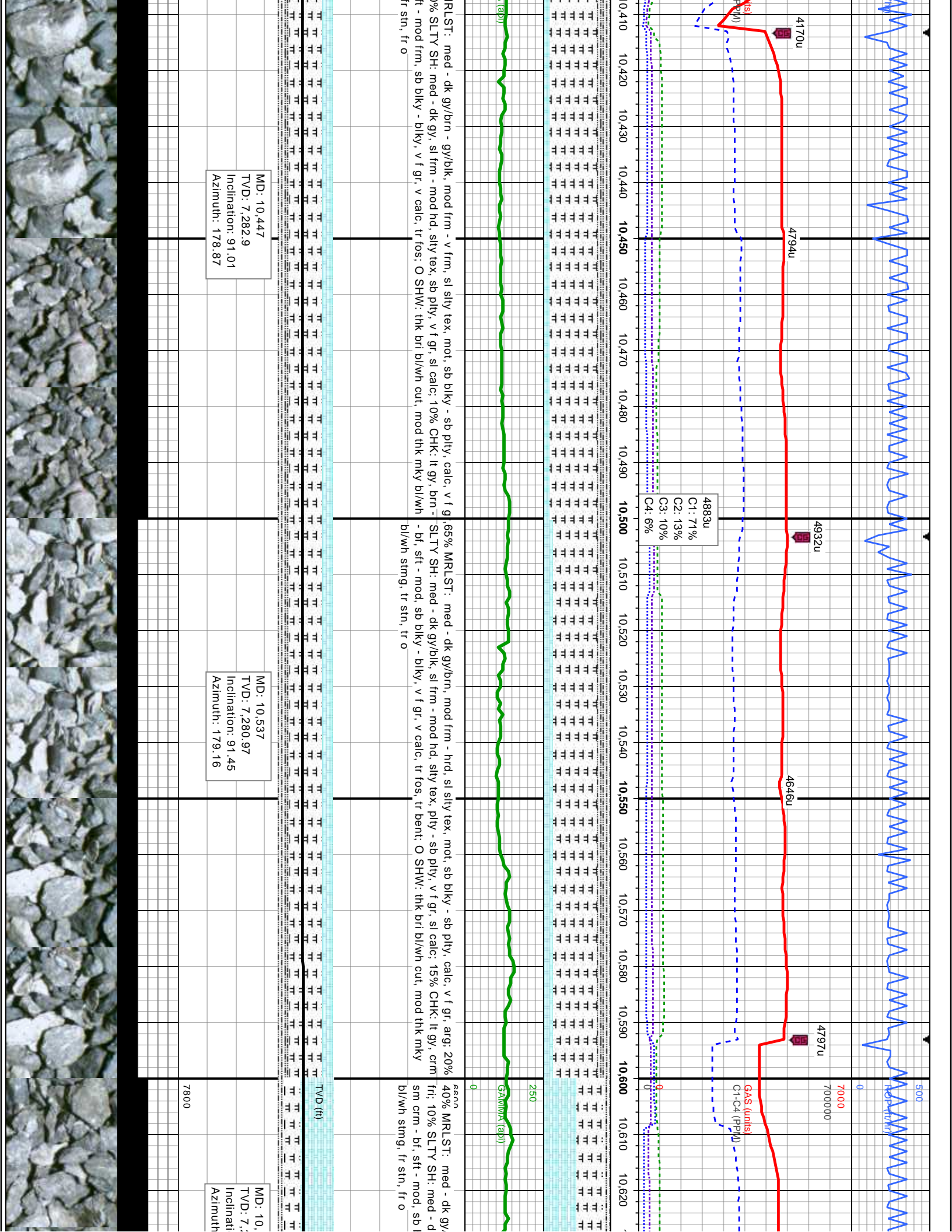


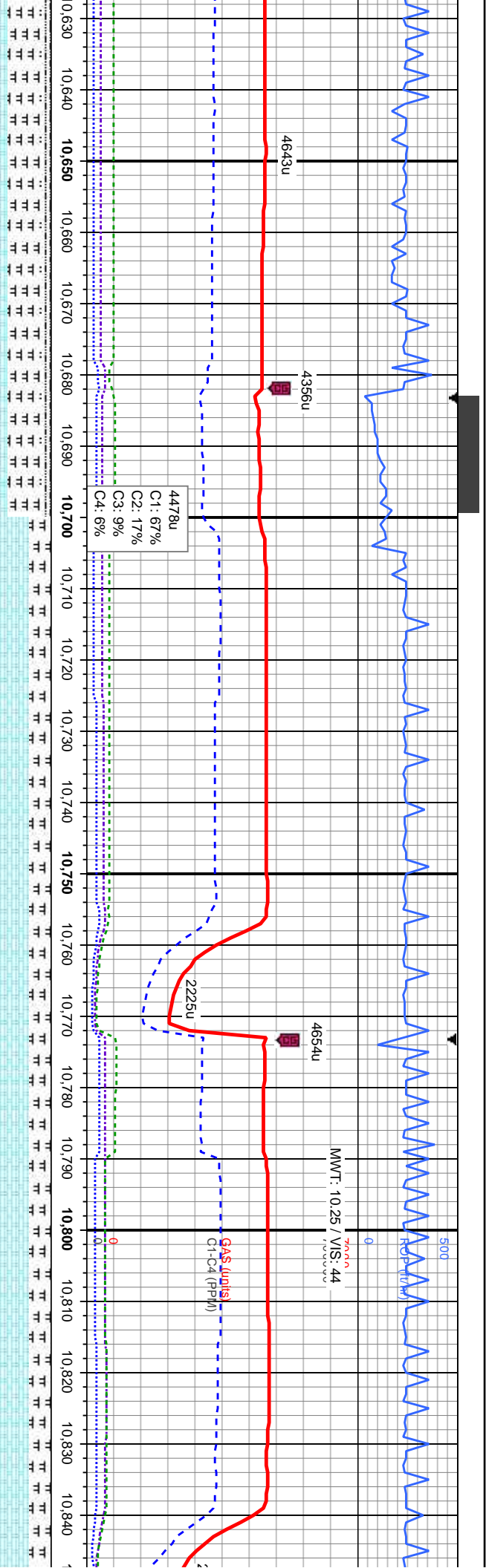












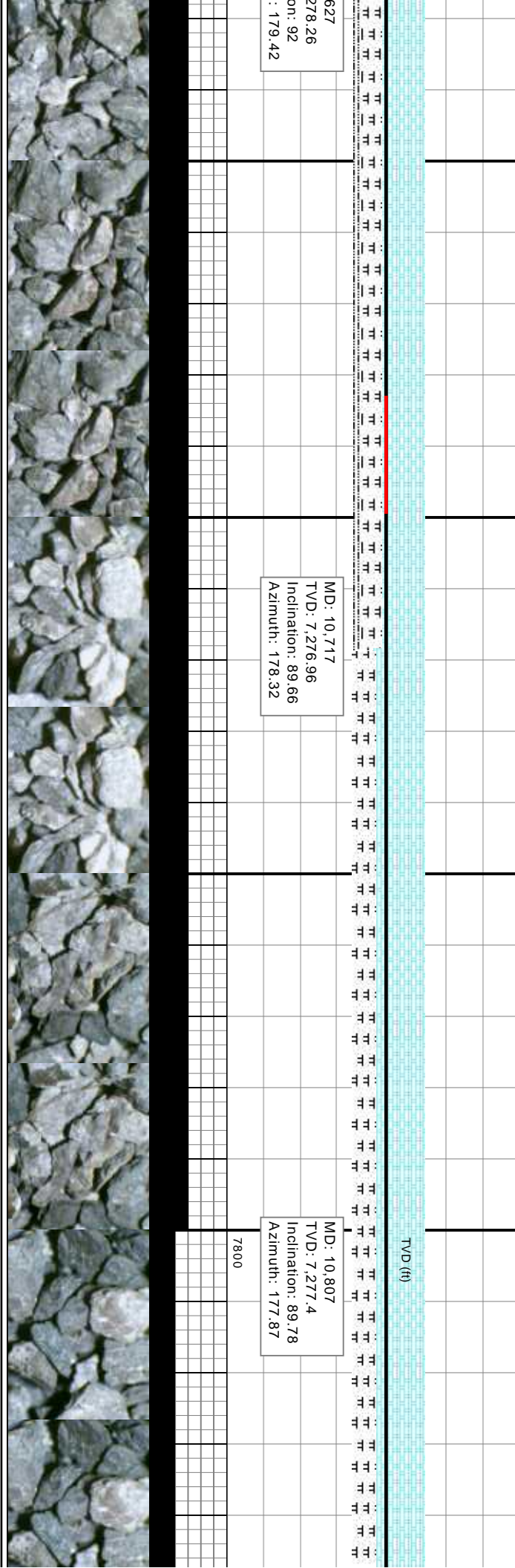
627  
278.26  
on: 92  
: 179.42

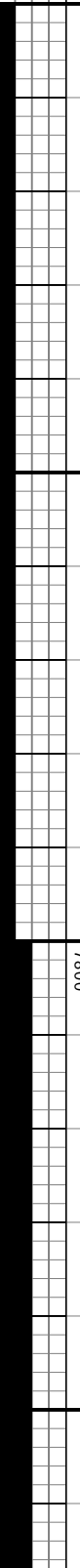
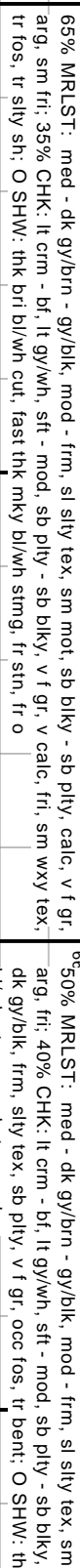
MD: 10.717  
TVD: 7,276.96  
Inclination: 89.66  
Azimuth: 178.32

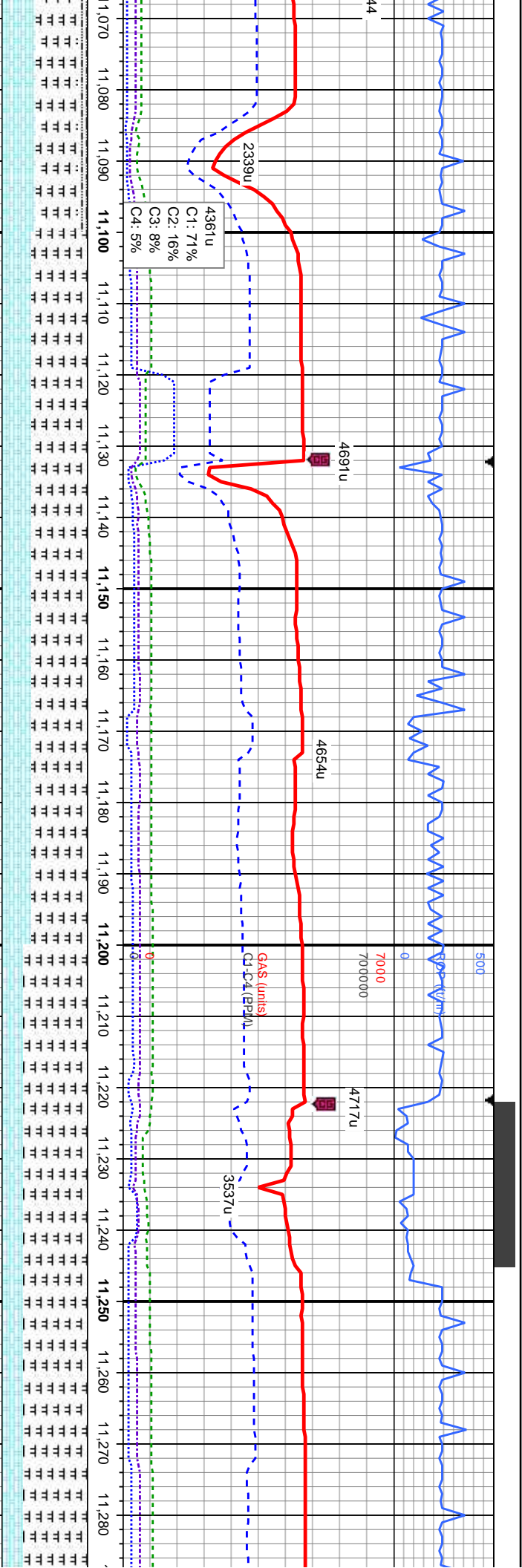
MD: 10.807  
TVD: 7,277.4  
Inclination: 89.78  
Azimuth: 177.87

25% MRLST: med - dk gy/brn, mod frm - hrd, sl silty tex, mot, sb blk - sb ply, calc, v f gr, arg, sm  
fri: 75% CHK: lt gy/wh, mod sft - mod frm, sb blk - sb ply, v f gr, v calc, fri, sl wxy tex, tr fos; O  
bri bl/wh cut, fast thk mky bl/wh stmg, tr sin, tr o

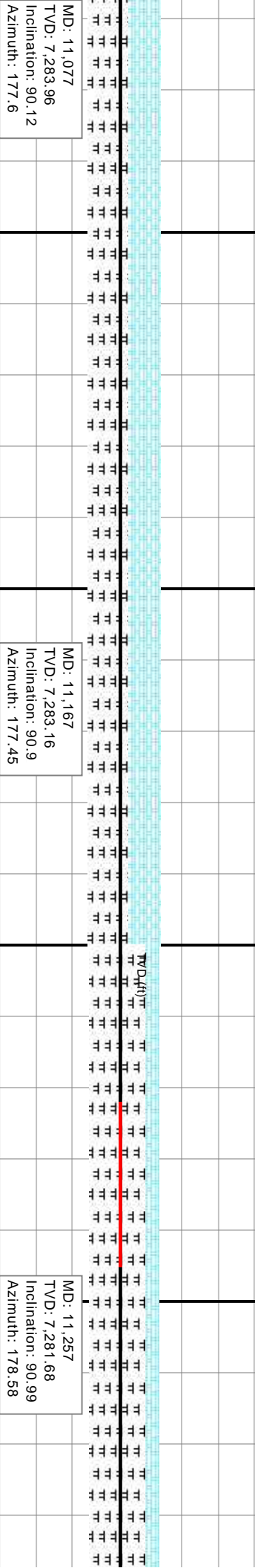
25% MRLST: med - dk gy/brn, mod frm - hrd, sl silty tex, mot, sb blk - sb ply, calc, v f gr, arg, sm  
fri: 75% CHK: lt crm - bf, sft - mod, sb ply - sb  
bri bl/wh cut, fast thk mky bl/wh stmg, tr sin, tr o







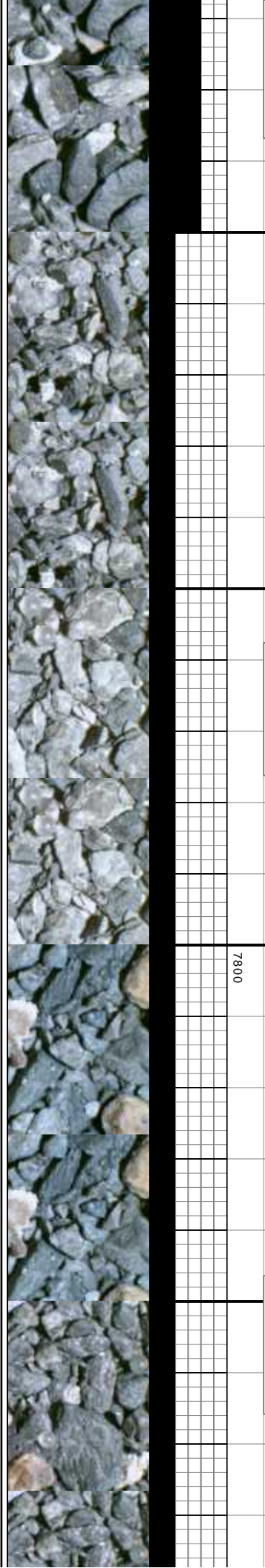
mot, sb blk - sb pty, calc, v f gr, 65% MRLST: lt - med gy/brn - gy/blk, mod - frm, sl sily tex, sm mot, sb blk - sb pty, calc, v f gr, arg, fri, 35% CHK: lt gy/wh - crn/wh, sft - mod, sb pty - sb blk, v f gr, v calc, fri, tr fos, O SHW: thk arg, fri, 25% CHK: lt gy/wh, v sft - sft, sb pty - sb blk, v f gr, v calc, fri, tr fos, O SHW: thk cut, fast thk mky b/w wh sting, tr sin, tr o cut, fast thk mky b/w wh sting, tr sin, tr o

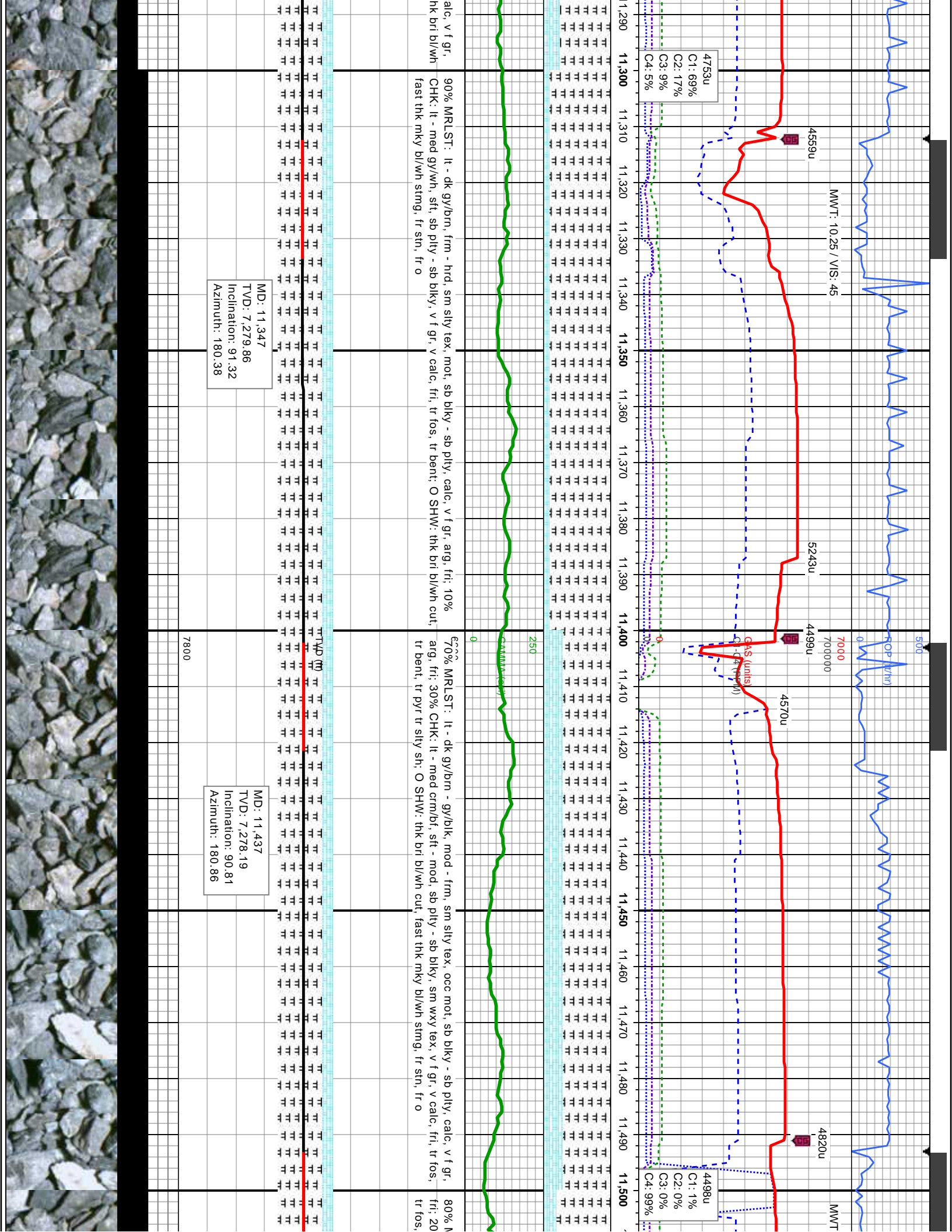


MD: 11,077  
TVD: 7,283.96  
Inclination: 90.12  
Azimuth: 177.6

MD: 11,167  
TVD: 7,283.16  
Inclination: 90.9  
Azimuth: 177.45

MD: 11,257  
TVD: 7,281.68  
Inclination: 90.99  
Azimuth: 178.58

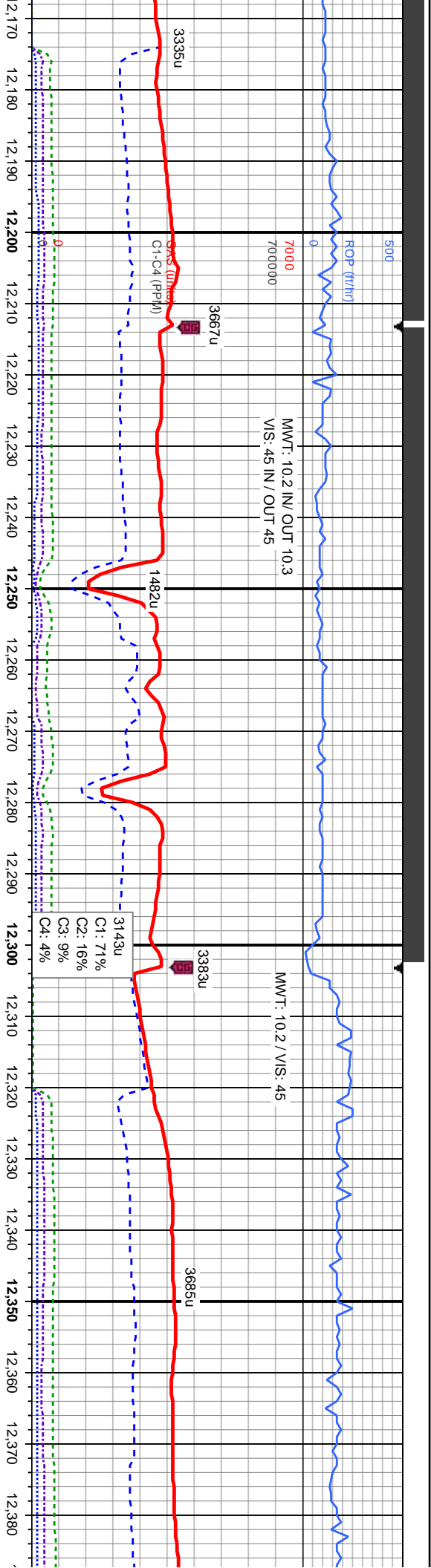












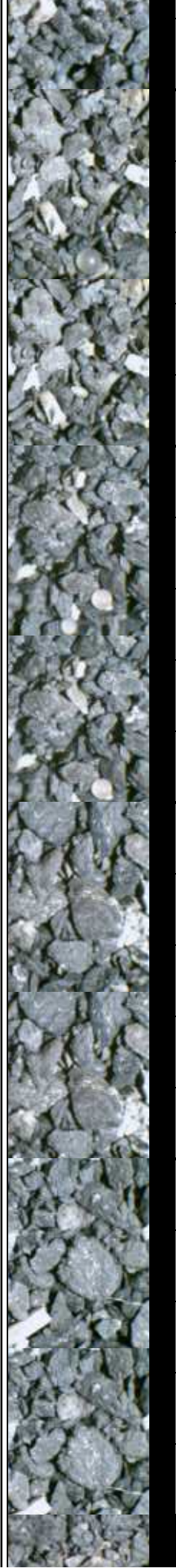
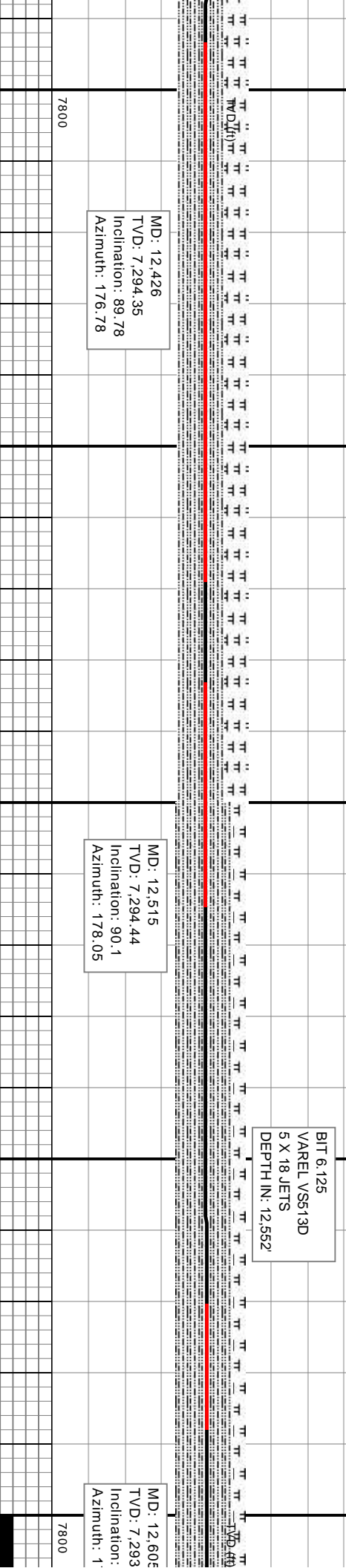
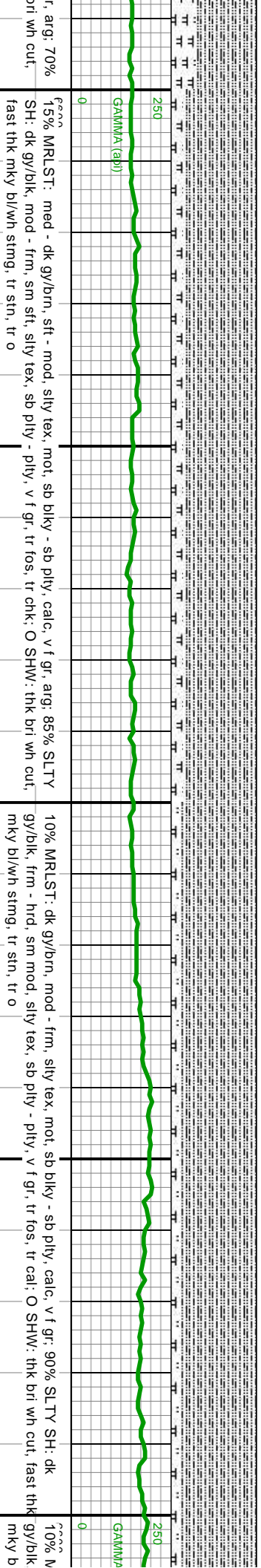
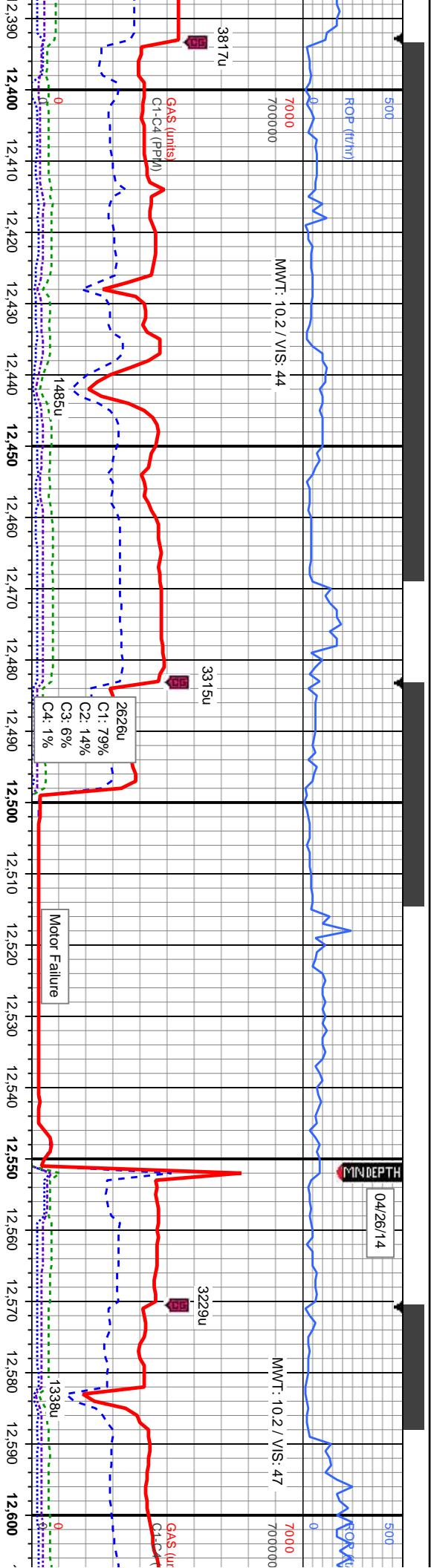
3335u  
3667u  
3383u  
3685u  
C1-C4 (PPH)  
C1: 71%  
C2: 16%  
C3: 9%  
C4: 4%1482u  
3143u  
30% MRLST: med - dk gy/brn, mod frm - hrd, silty tex, mot, sb blk - sb pily, calc, v f g  
SLTY SH: dk gy/blk, mod - frm, silty tex, sb pily - pily, v f gr, tr fos, tr chk; O SHW: thk k  
fast thk mky b/w/stmg, tr sin, tr o

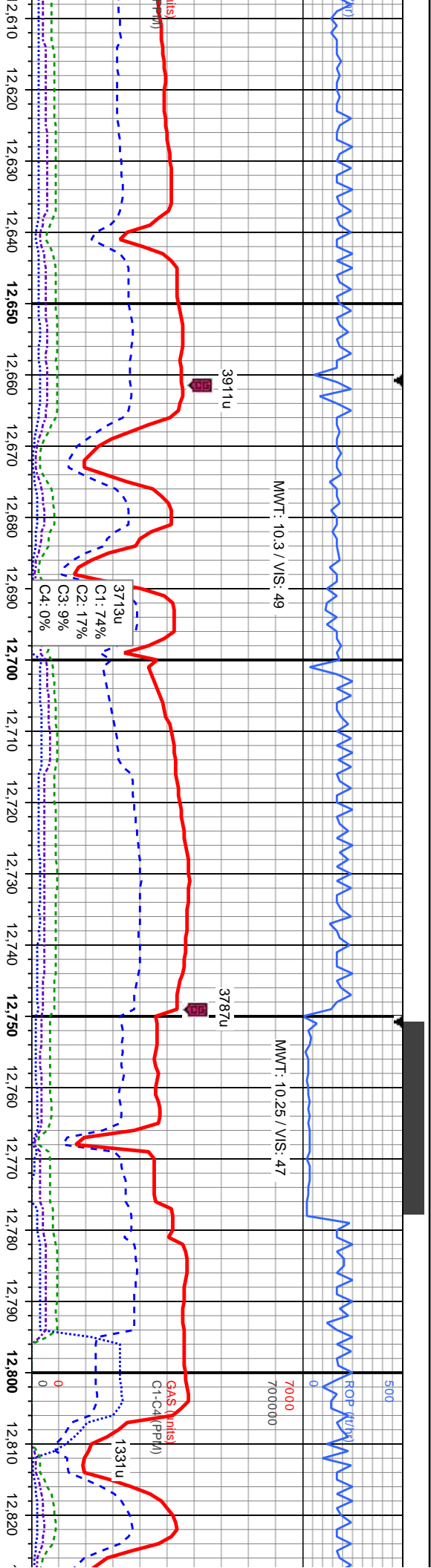
35% MRLST: med - dk gy, brn, mod frm - v frm, silty tex, occ mot, sb blk - sb pily, calc, v f gr, arg, tr fos, tr pyr, tr chk; O SHW: thk k  
mod fri: 65% SLTY SH: dk gy/blk, sl sft - frm, silty tex, sb pily - pily, v f gr, sl tr fos, abnt bent, tr pyr, tr chk; O SHW: thk bri wh cut, fast thk mky b/w/stmg, tr sin, tr o

MD: 12,246  
TVD: 7,290.63  
Inclination: 88.63°  
Azimuth: 178.47°

MD: 12,336  
TVD: 7,292.94  
Inclination: 88.43°  
Azimuth: 178.24°





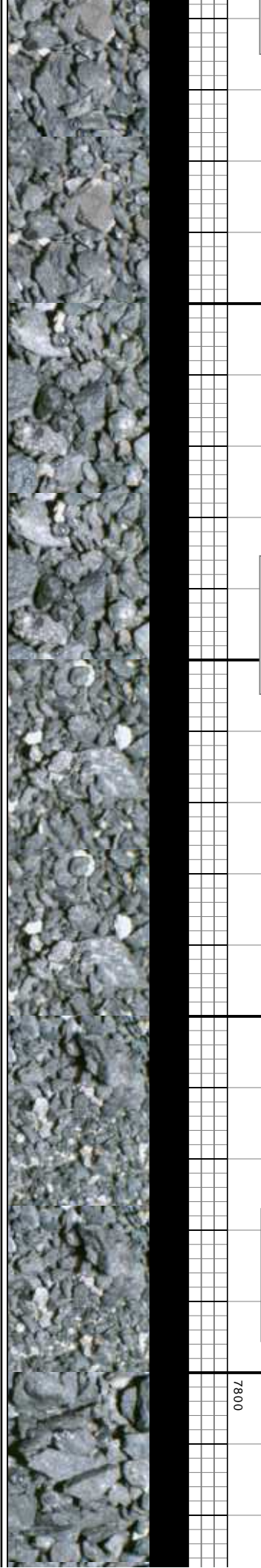
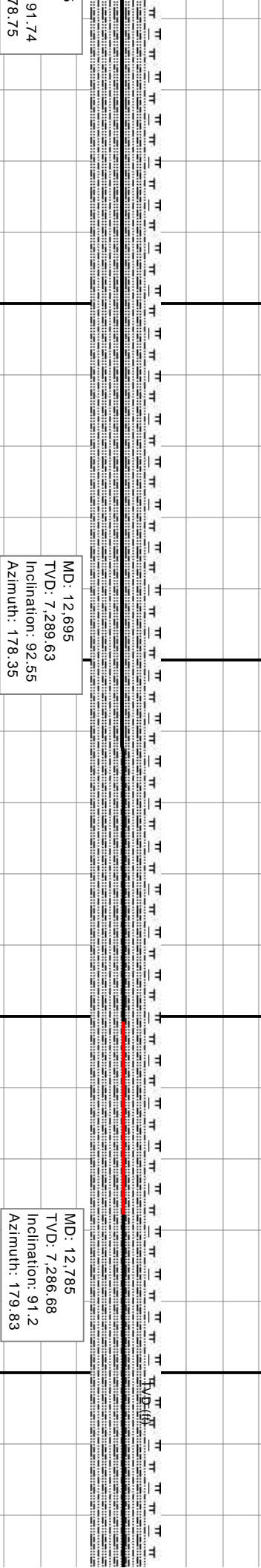


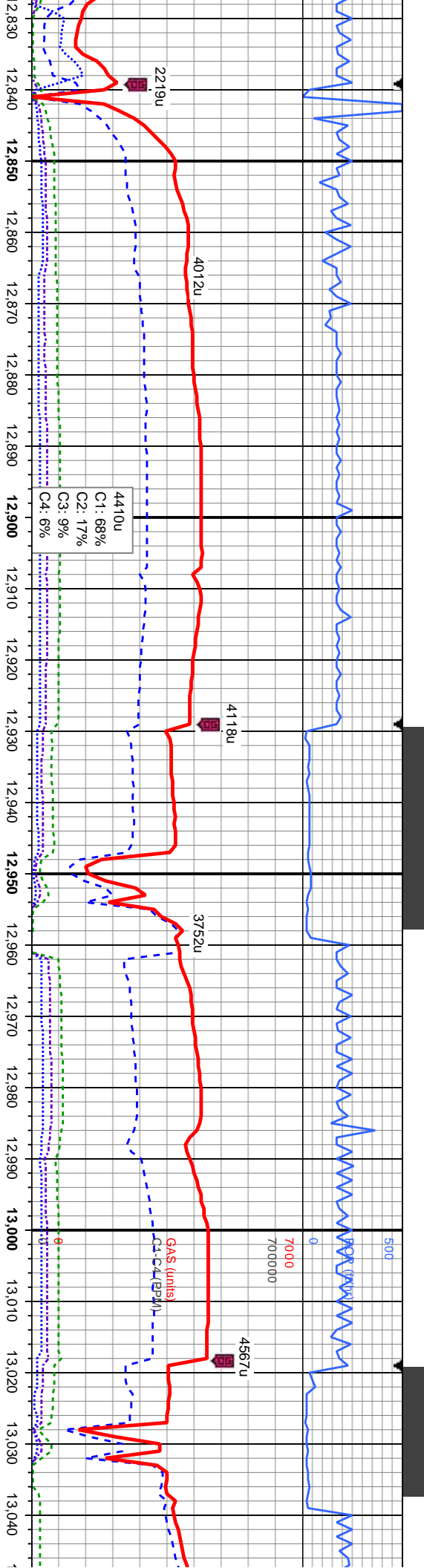
12,610 12,620 12,630 12,640 12,650 12,660 12,670 12,680 12,690 12,700 12,710 12,720 12,730 12,740 12,750 12,760 12,770 12,780 12,790 12,800 12,810 12,820

MRLST: dk gy/brn, mod - frm, silty tex, mot, sb blkly - sb pily, calc, v f gr: 90% SLTY SH: dk  
frm - hrd, sm mod, silty tex, sb pily - pily, v f gr, tr fos, tr cal: O SHW: thk bri wh cut, fast thk  
bl/wh stmg, fr stn, fr o

20% MRLST: med - dk gy/brn, mod - frm, silty tex, mot, sb blkly - sb pily, calc, v f gr: 80% SLTY SH: dk  
gy/blk, frm - hrd, silty tex, sb pily, v f gr, tr fos, tr cal: O SHW: thk bri wh cut, fast thk mky bl/wh  
stmg, fr stn, fr o

med - dk gy/blk, mod - hrd  
bl/wh stmg, fr stn, fr o



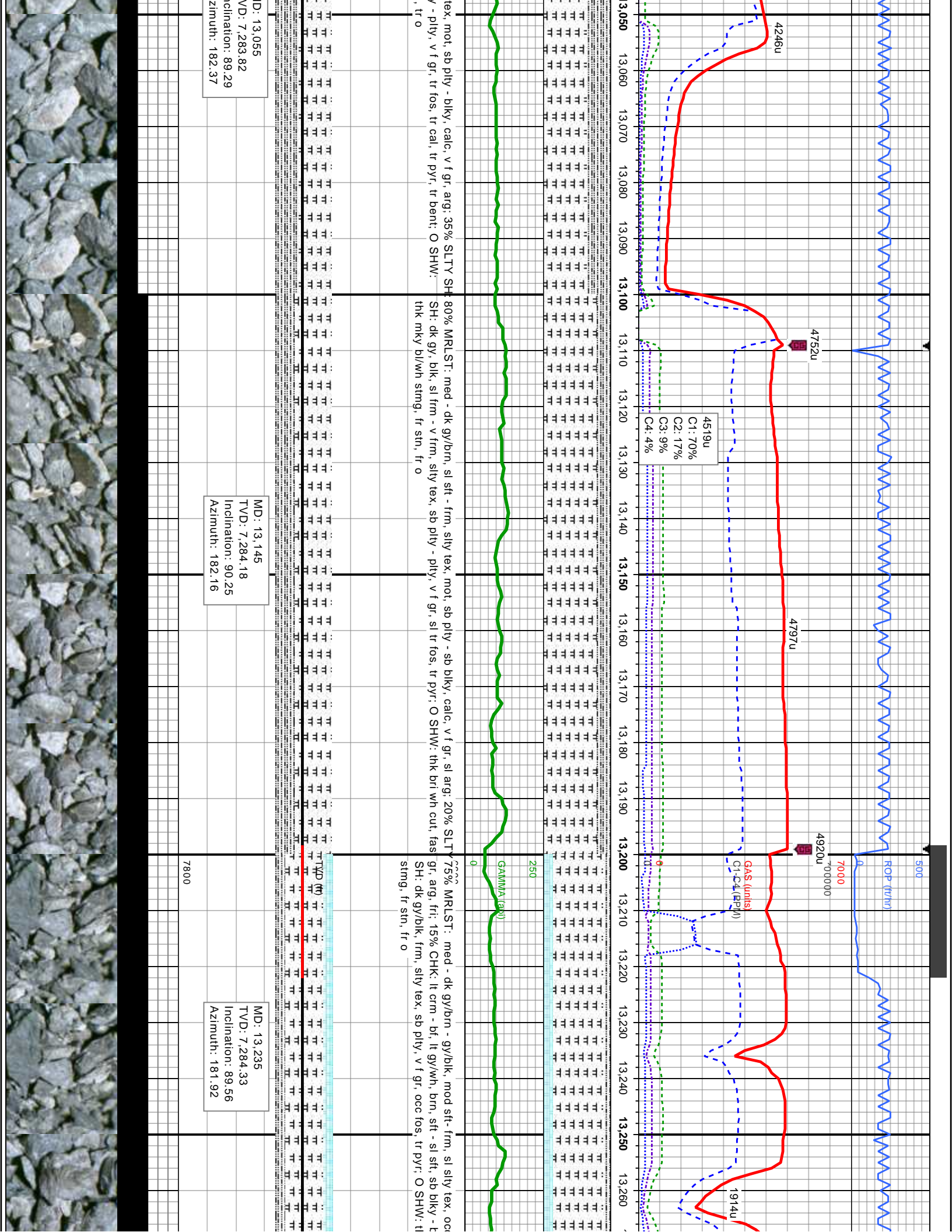


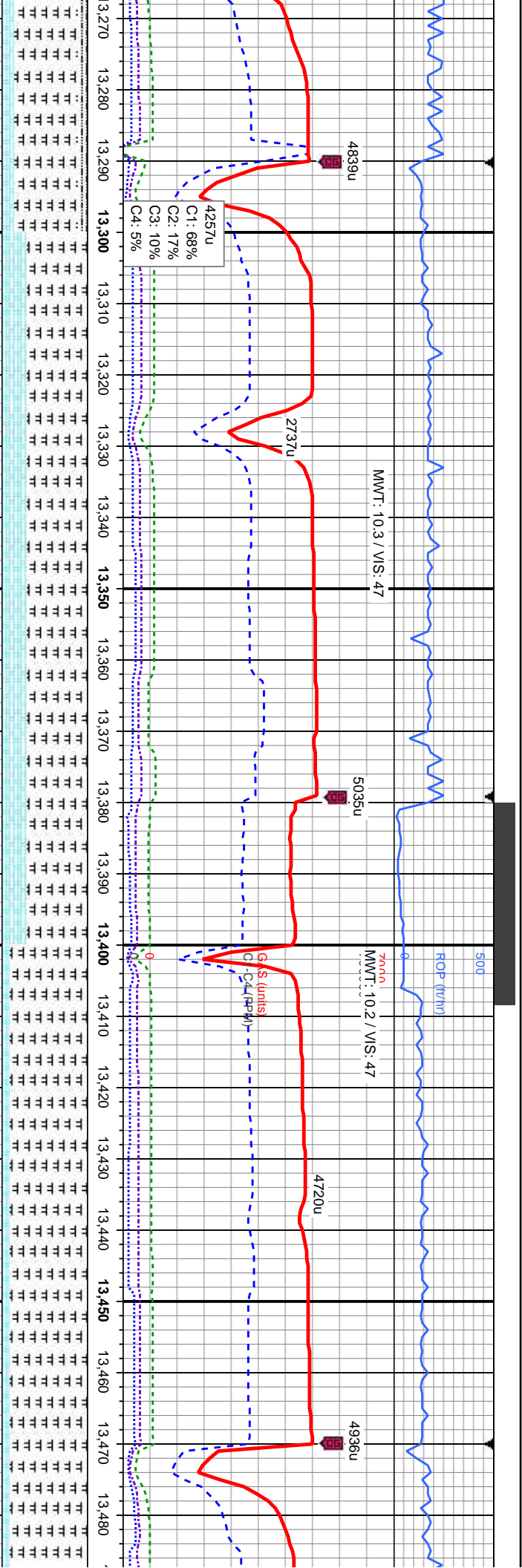
MD: 12,875  
TVD: 7,284.65  
Inclination: 91.39  
Azimuth: 179.34

MD: 12,965  
TVD: 7,283.41  
Inclination: 90.19  
Azimuth: 181.43

7800

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mot, sb blkly - sb ply, calc, v f blkly, v f gr, v calc, fri; 10% SLTY  
CHK: thk bri wh cut, fast thk mky bl/wh

70% MRLST: med - dk gy, brn, sl sft - frm, silty tex, occ mot, sb blkly - sb ply, calc, v f gr, arg, fri; 30% 90% MRLST: med - dk gy, brn, mod sft - v frm, silty tex, mot, sb blkly - ply, calc, v f gr, blkly, v f gr, v calc, fri, tr pyr, tr foss, tr silty sh; O SHW: thk bri wh cut, fast thk mky bl/wh stmg, fr stn, fr o

SHW: thk bri wh cut, fast thk mky bl/wh stmg, g stn, g o

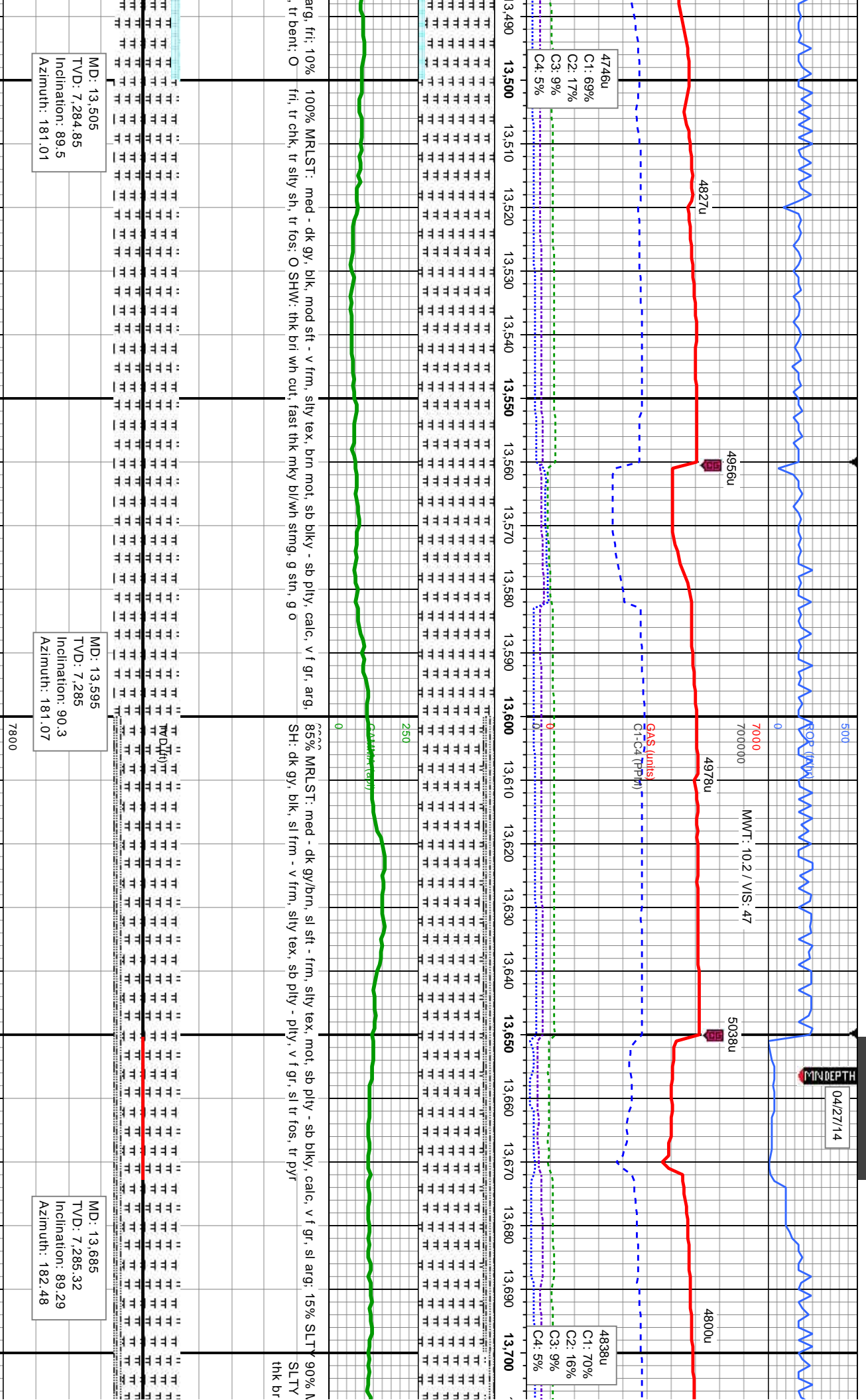
MD: 13,325  
TVD: 7,283.71  
Inclination: 91.23  
Azimuth: 181.79

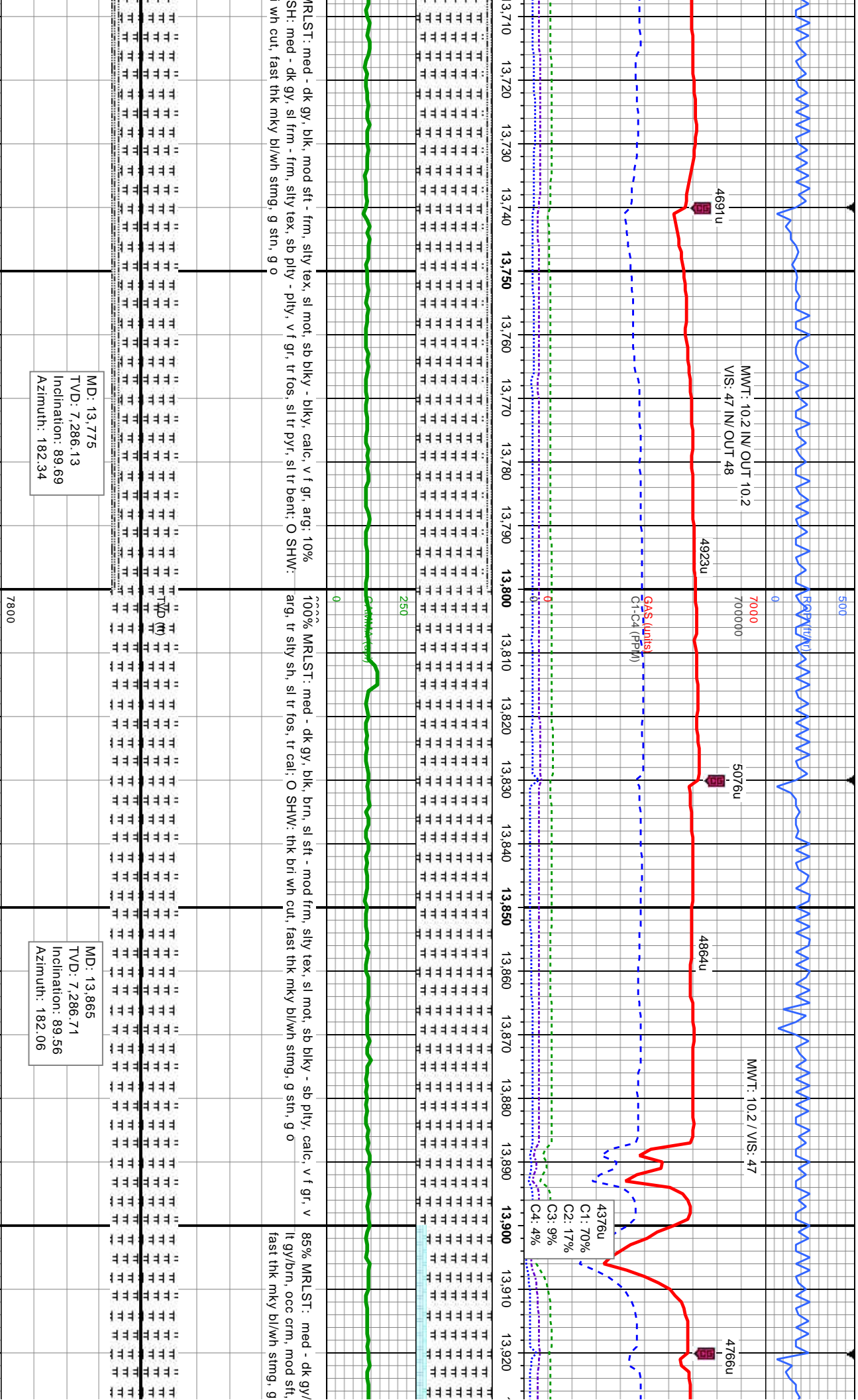
MD: 13,415  
TVD: 7,283.6  
Inclination: 88.91  
Azimuth: 181.58



04/27/14

MINDEPTH



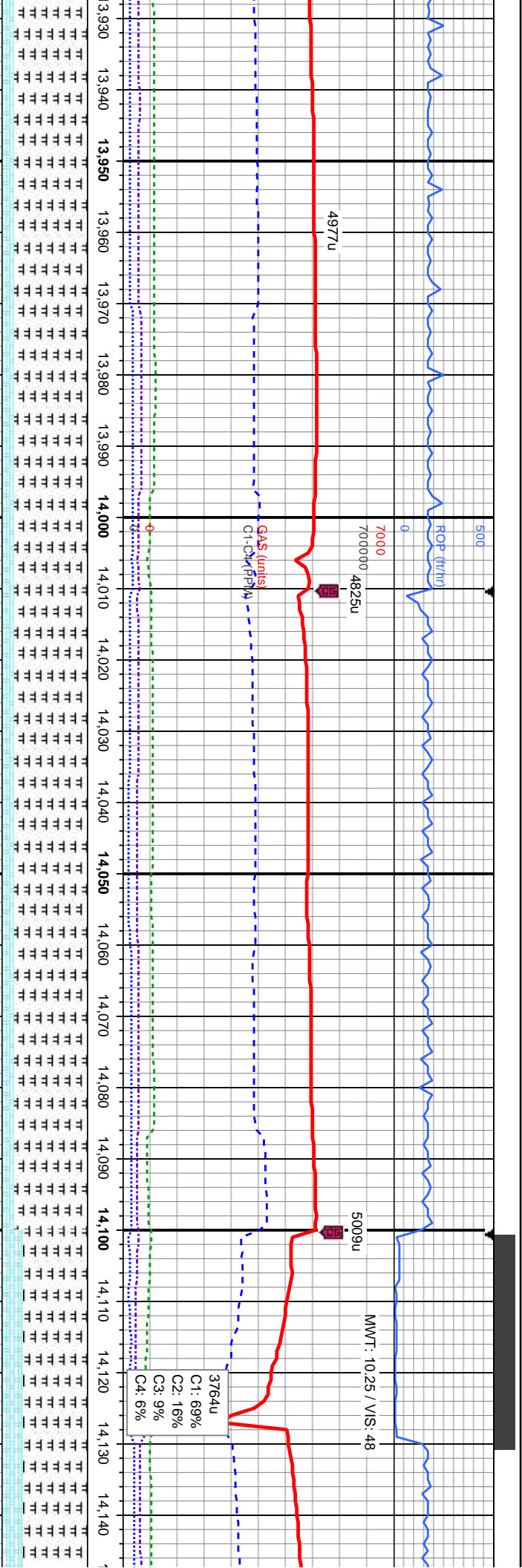


RELST: med - dk gy, blk, mod sft - frm, sily tex, sl mot, sb blkly - blkly, calc, v f gr, arg, 10%  
 SH: med - dk gy, sl frm - frm, sily tex, sb ply - ply, v f gr, tr fos, sl tr pyr, sl tr bent; O SHW:  
 wh cut, fast thk mky bl/wh string, g sin, g o

100% MRU<sub>ST</sub>: med - dk gy, blk, brn, sl sft - mod frm, sily tex, sl mot, sb bily - sb plty, calc, v f gr, v arg, tr sily sh, sl r fos, tr cal; O SHW: thk brn wh cut, fast thk mky bl/wh string, g sin, g o

85% MRLST: med - dk gy/  
lt gy/brn, occ crm, mod sft,  
fast thk mky bl/wh stmg, g





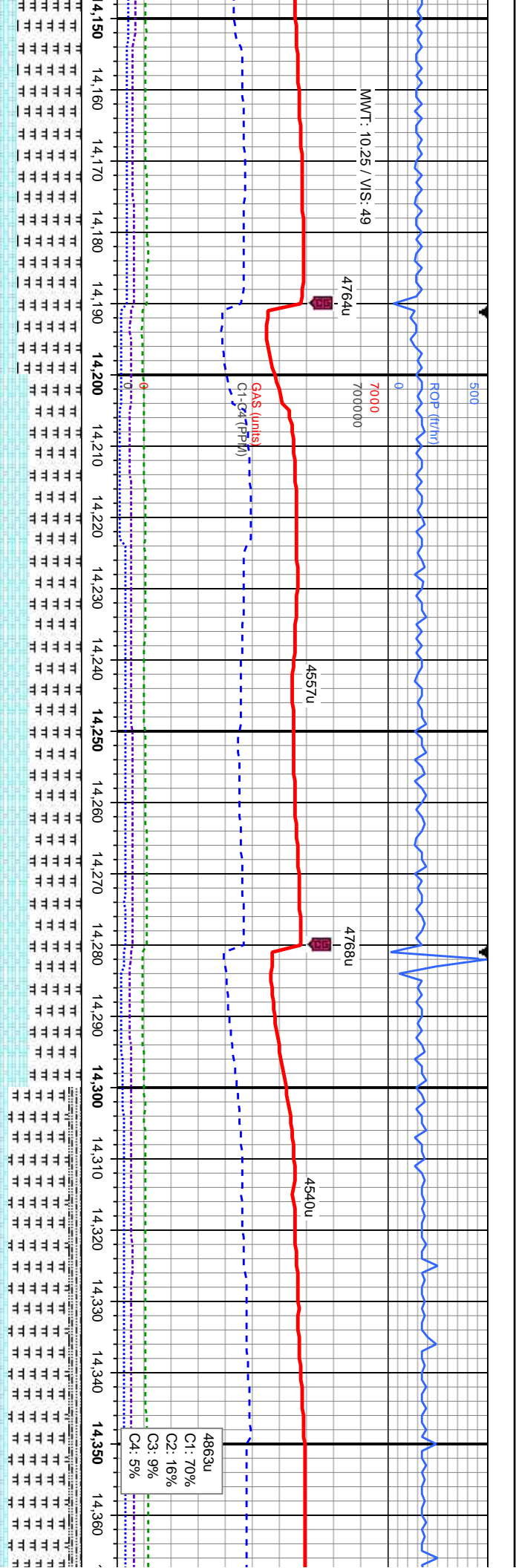
brn, mod - frm, silty tex, mot, sb blkly - plty, calc, v f gr, arg, fri; 15% CHK: 85% MRLST: med - dk gy/brn, mod - frm, silty tex, mot, sb blkly - blkly, v f gr, v calc, fri, tr silty sh, tr fos; O SHW: thk bri wh cut, 1t gy/brn, occ crn, mod sft, sb blkly - blkly, v f gr, v calc, fri, tr silty sh, tr fos; O SHW: thk bri wh cut, mky bl/wh stmg, g stn, g o

MD: 13,955  
TVD: 7,287.28  
Inclination: 89.72  
Azimuth: 182.24

MD: 14,045  
TVD: 7,286.97  
Inclination: 90.68  
Azimuth: 181.64

MD: 14,135  
TVD: 7,287.3  
Inclination: 88.89  
Azimuth: 179.84





ROP (ft/hr) 500 0

Gas (units) 7000 0

4764u

4557u

4768u

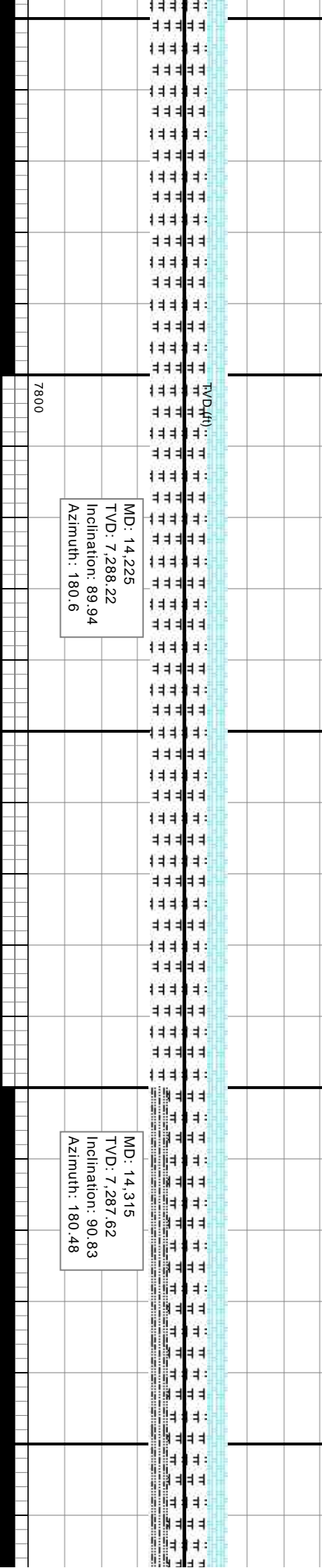
4540u

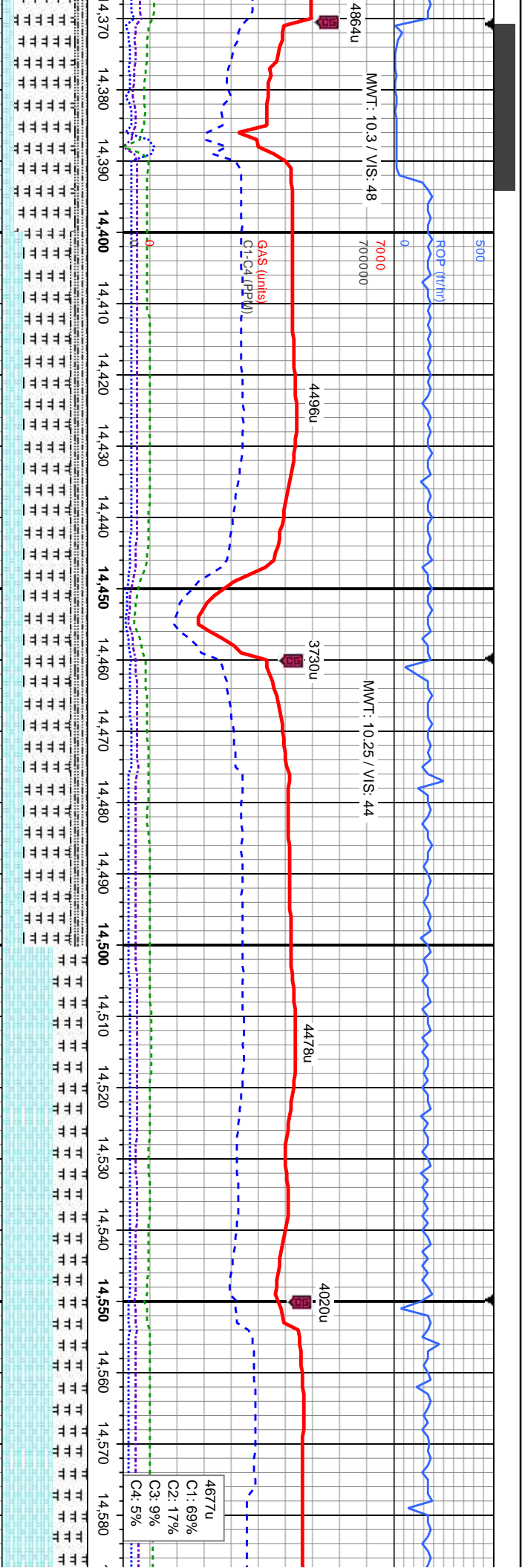
4863u

C1: 70%  
C2: 16%  
C3: 9%  
C4: 5%

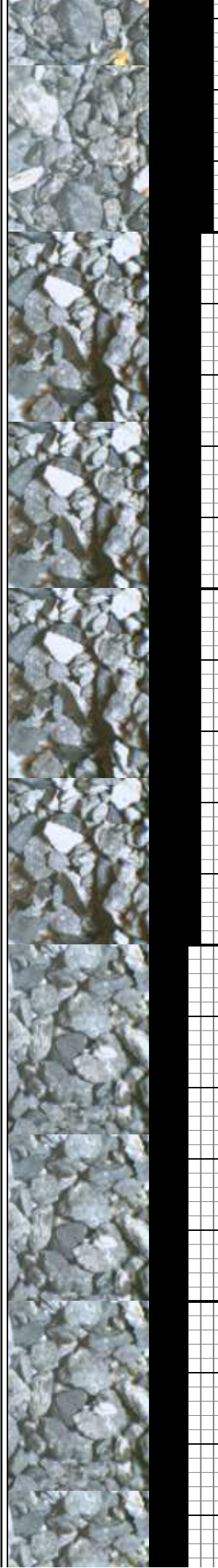
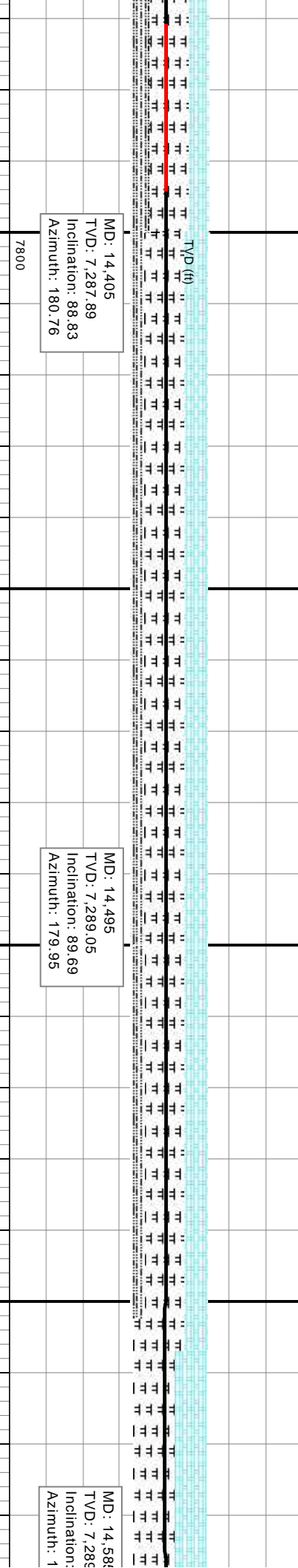
ex. mot, sb blkly - ply, calc, v f gr, arg, fri: 25% CHK: 60% MRLST: med - dk gy/brn, mod - frm, silty tex, mot, sb blkly - pit  
fri, tr silty sh, tr fos; O SHW: thk bri wh cut, fast thk cut, fast thk mky b/wh sting, mod stn, mod o

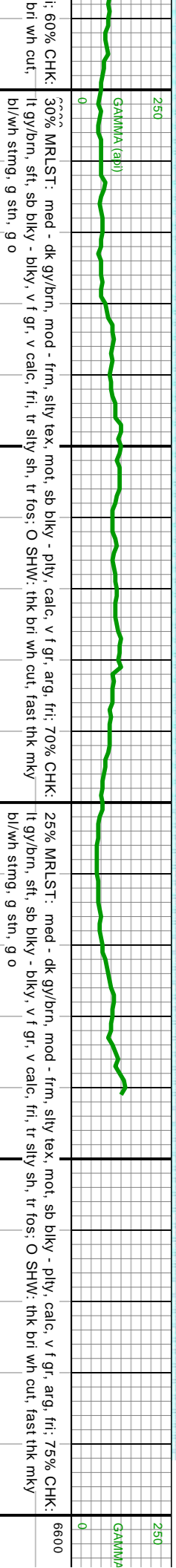
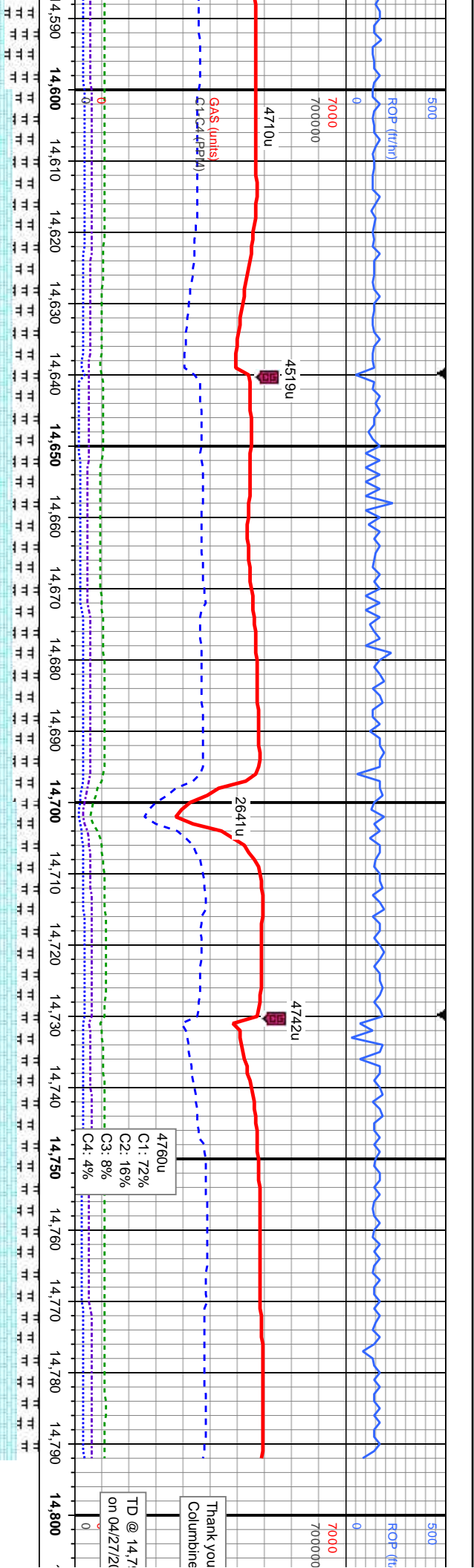
70% MRLST: med - dk gy/brn, mod - frm, silty tex, mot, sb blkly - pit  
gy/brn - crm/bf, sft - mod, sb ply - sb blkly, v f gr, v calc, fri: 15% S  
tex, sb ply - ply, v f gr, tr fos; O SHW: thk bri wh cut, fast thk mky





calc, v f gr, arg, fri: 15% CHK: 155% MRLST: lt - dk gy/brn, mod - frm, silty tex, v mot, sb blk - sb ply, calc, v f gr, arg, fri: 20%  
LTy SH: dk gy/blk, frm - hrd, silty SLTy SH: dk gy/blk, frm - hrd, silty tex, sb ply - ply, v f gr: 25% CHK: lt gy/brn, occ crm, mod sft, sb  
blk - blk, v f gr, v calc, fri, tr fos; O SHW: thk bri wh cut, fast thk mky bl/wh stmg, mod stn, mod o  
fast thk mky bl/wh stmg, fr stn, fr o





i, 60% CHK: bri wh cut,	30% MRSLST: med - dk gy/brn, mod - frm, silty tex, mot, sb blkly - blkly, v f gr, v calc, fri, tr silty sh, tr fos; O SHW: thk bri wh cut, fast thk mky bl/wh sting, g stn, g o	25% MRSLST: med - dk gy/brn, mod - frm, silty tex, mot, sb blkly - blkly, v f gr, v calc, fri, tr silty sh, tr fos; O SHW: thk bri wh cut, fast thk mky bl/wh sting, g stn, g o	MD: 14.736 TVD: 7,285.78 Inclination: 92.22 Azimuth: 180.28	MD: 14.792 TVD: 7,283.61 Inclination: 92.22 Azimuth: 180.28



(b)

for using  
Logging, Inc.

32' MD  
14 @ 16:15 MST

4.810 14.820 14.830

(b)