



Scale: 5" / 100'
Measured Depth Log

Well Name Arellano M-10-9HC

Location SEC 10 T5N R65W

State Colorado

County Weld

Country United States

Rig Number Frontier (Utah) 8

API Number 05-123-41107

AFE # 41107

Region DJ Basin

Field Wattenberg

Spud Date 3/27/2015

Drilling Completed 5/31/2015

Surface Coordinates Sec 10 - 1593' FSL x 298' FEL

Bottom Hole Coordinates Sec 9 - 1261' FSL x 2282' FEL

Ground Elevation 4616'

K.B. Elevation 4640'

Logged Interval 6000' To 14030'

Total Depth 14030'

Formation Coddell

Type of Drilling Fluid FWLSND

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 Wellsite Geologist

Ben Katka Wellsite Geologist

Columbine Logging Computer 148

Bloodhound Unit 298

Columbine Logging, Inc. 602 S. Lipan Street
Denver, Colorado 80223

Wellsite Geologists Robbie Davis

Ben Katka

Joey Luce

Andrew Martens

Jason Beach

Zone Color Coding

Oil

Note

Error

Condensate

Core

Water

Gas

Pressure

Seal

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 SILSTONE

SILTY SHALE

SILTSTONE

TILL

TUFF

WELDED TUFF

Accessories

GASTROPOD

INOCERAMUS

OOLITE

OSTRACOD

PELECYPOD

PELLET

PISOLUTE

PLANT REMAINS

PLANT SPORES

SCAPHOPOD

STROMATOPOROID

ARGILLITE GRAIN

B BENTONITE

BITUMENOUS SUBSTANCE

BRECCIA FRAGMENTS

CALCAREOUS

CARBONACEOUS FLAKES

CHTDK

CHTLT

COAL - THIN BEDS

DOLOMITIC

+ FELDSPAR

● FERRUGINOUS PELLET

▲ FERRUGINOUS

▼ GLAUCONITE

▨ GYPSIFEROUS

■ HEAVY MINERAL

K KAOLIN

M MARCASITE

TT MARLSTONE

V MICACEOUS

✂ MINERAL CRYSTALS

● NODULES

● PHOSPHATE PELLETS

P PYRITE

B SALT CAST

. SANDY

\$ SIDERITE

▲ SILICEOUS

+ SILTY

▼ TUFFACEOUS

STRINGER

ANHYDRITE STRINGER

BENTONITE STRINGER

COAL STRINGER

DOLOMITE STRINGER

GYPSUM STRINGER

LIMESTONE STRINGER

TT MARLSTONE (CALC) STRG

TT MARLSTONE (DOL.) STRG

SANDSTONE STRINGER

— SHALE STRINGER

SILTSTONE STRINGER

Oil Show

P PINPOINT

V VUGGY

Engineering

D DEAD

● EVEN

○ QUESTIONABLE

BIT

SPOTTED STAINING

▲ CONNECTION (UP)

Porosity

▼ CONNECTION (DOW)

CONNECTION GAS

FENESTRAL

TRIP GAS

F FRACTURE

TRIP GAS (LEFT)

INTERCRYSTALLINE

DOWN TIME GAS

INTEROOLITIC

MOLDIC

O ORGANIC

CORE - LOST






































CORE - RECOVERED


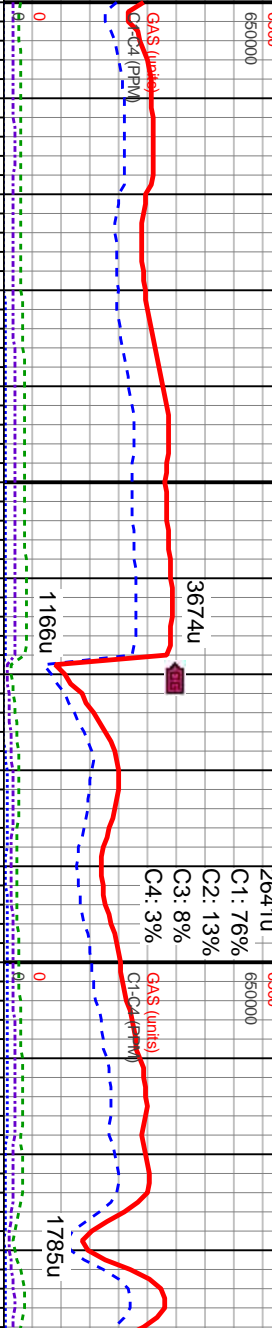
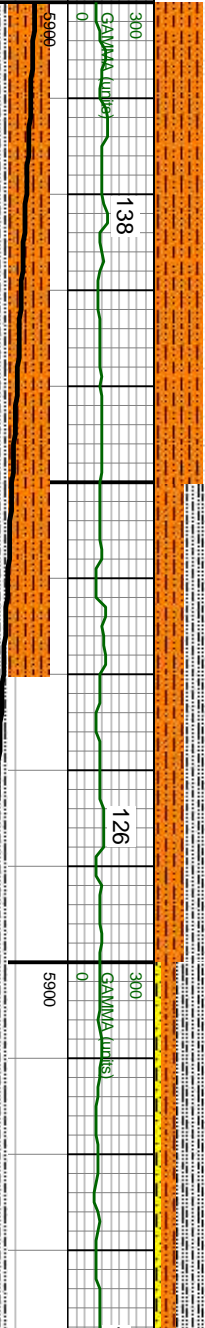

DOWN TIME GAS

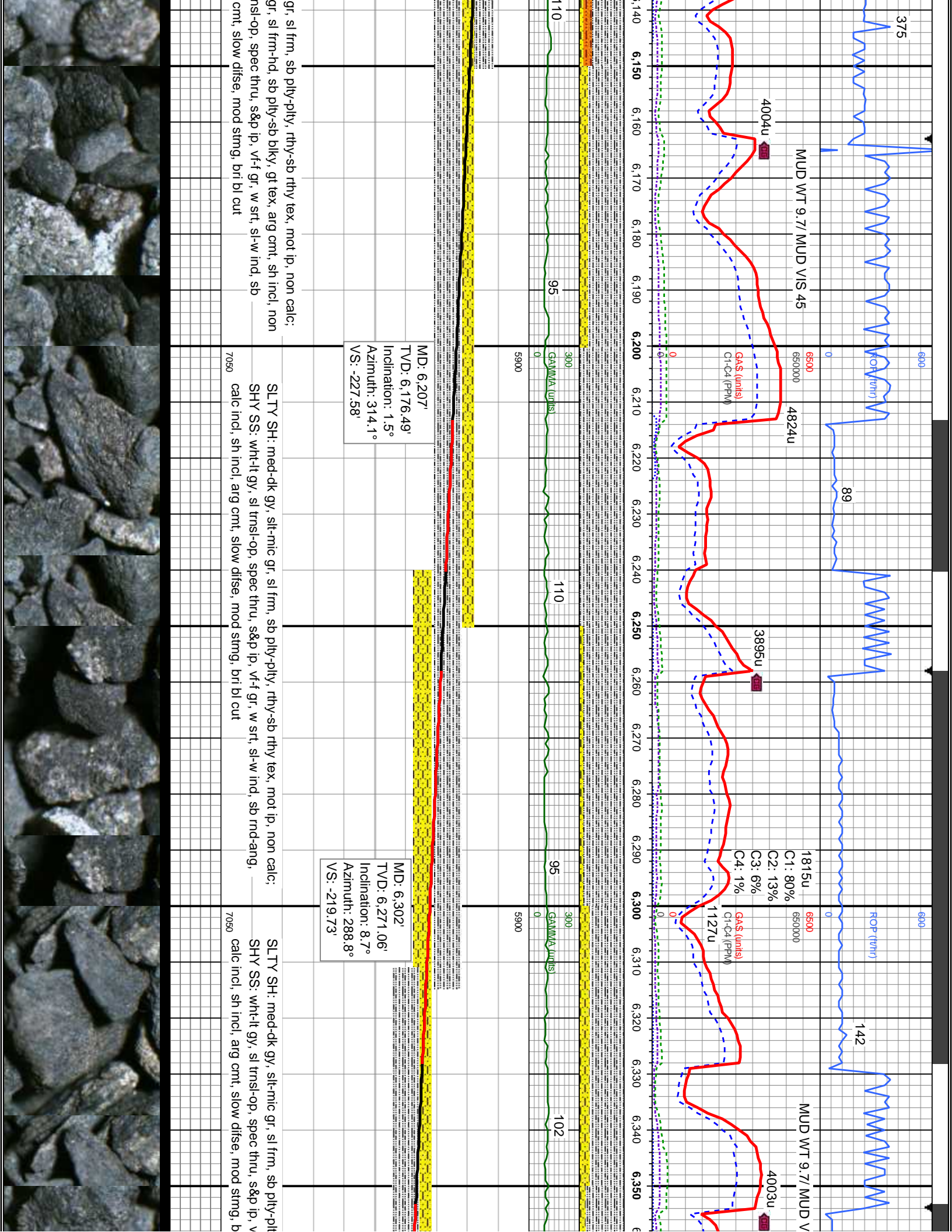
CORE - LOST

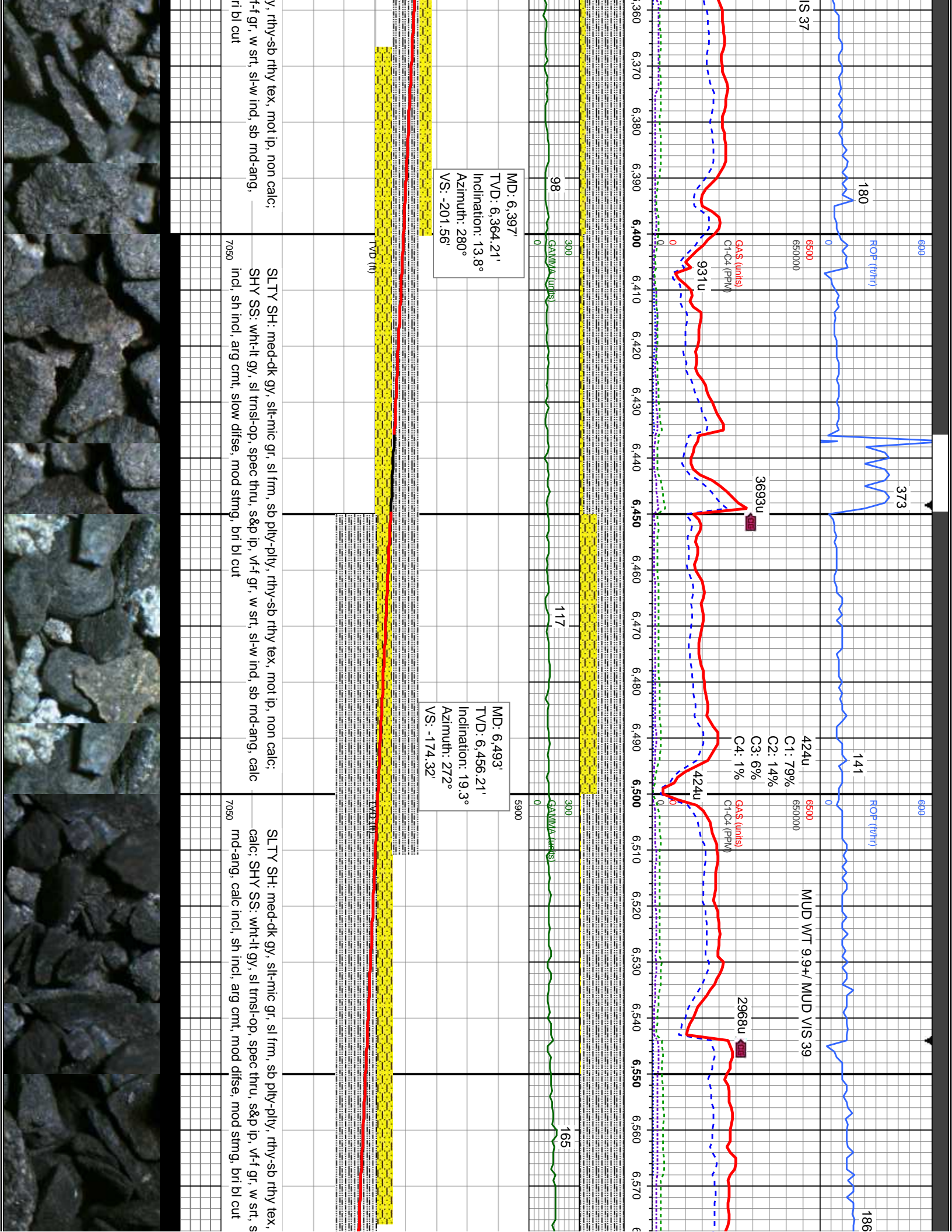
CORE - RECOVERED

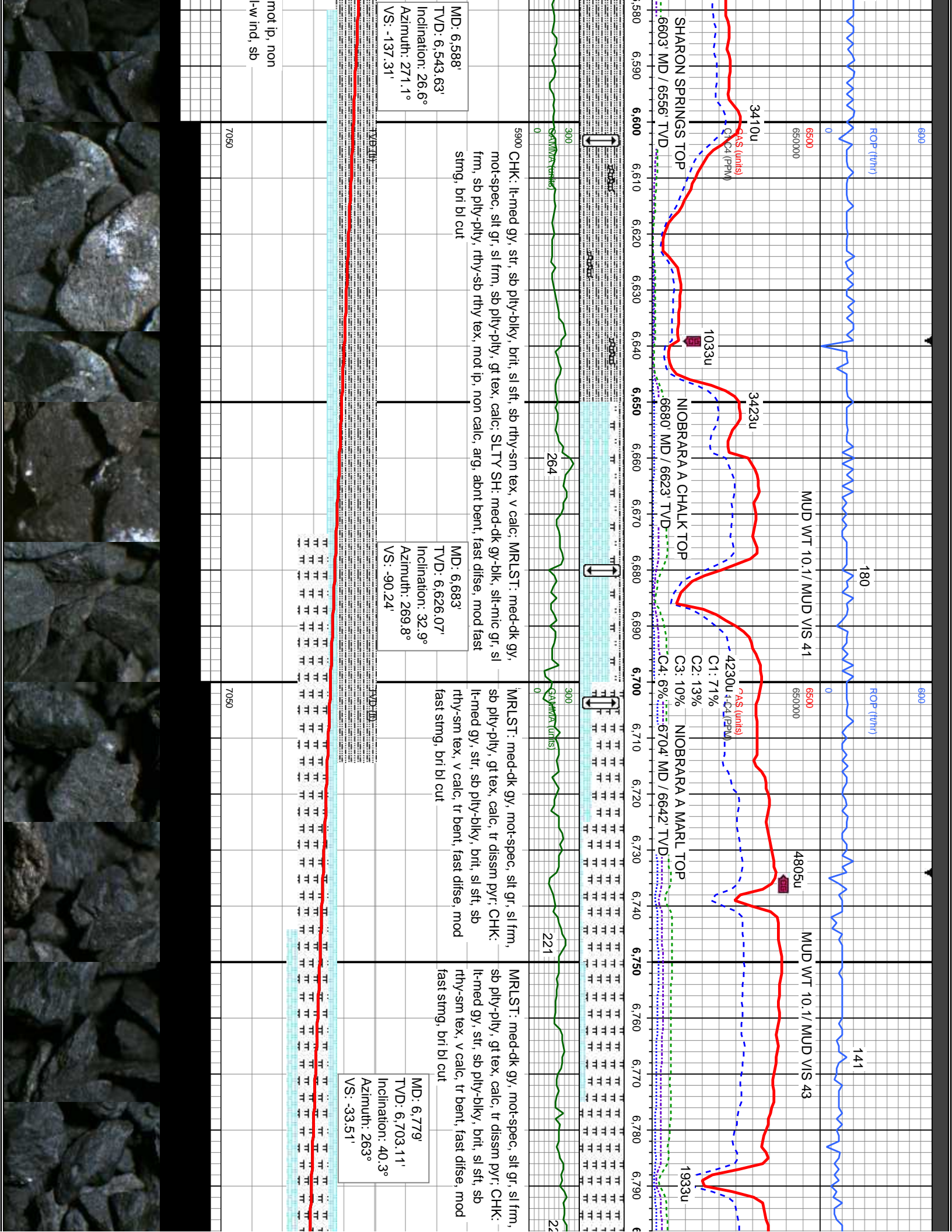
Other Symbols

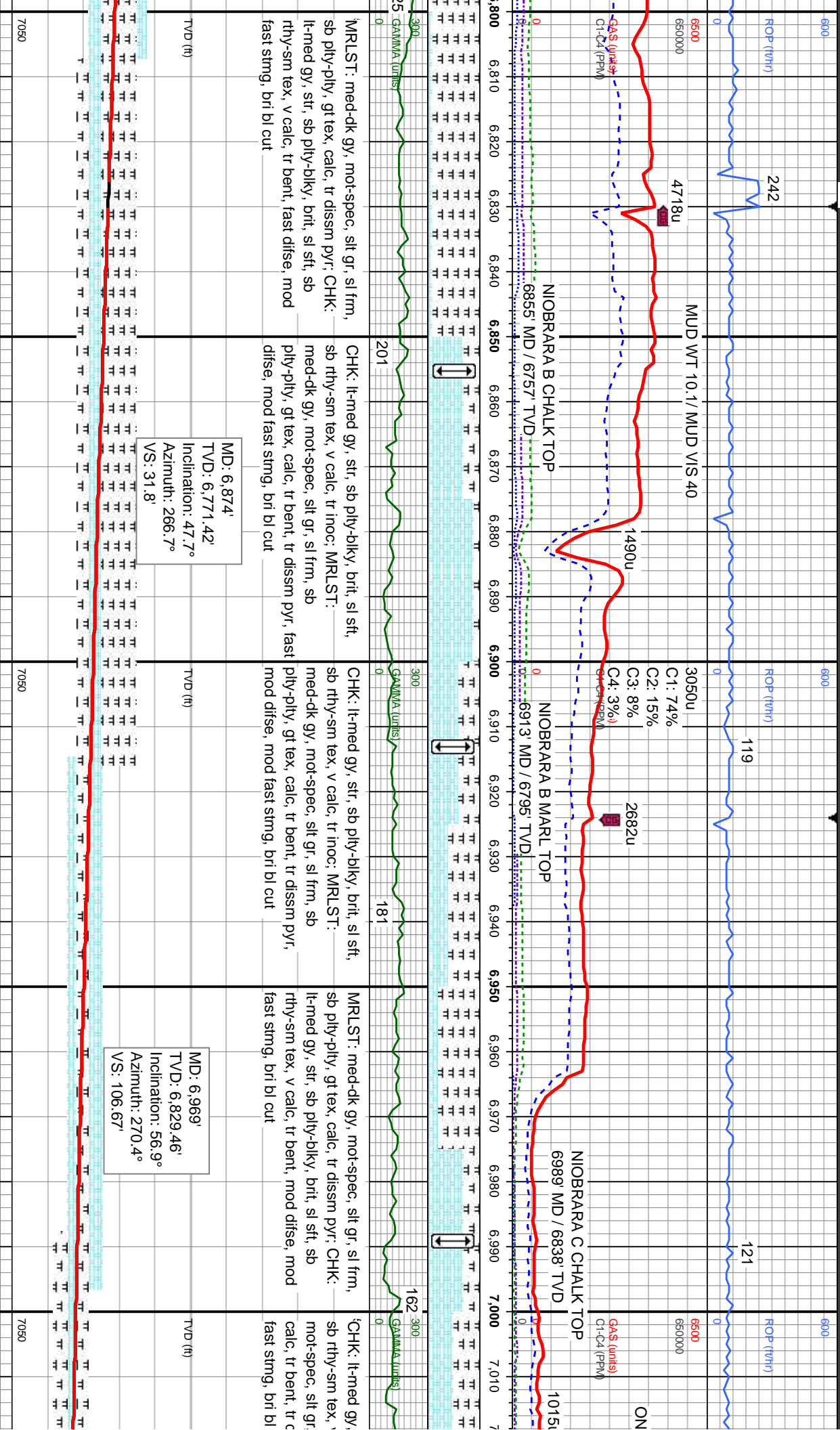
	DST INTERVAL		WIRELINE TESTED - LEFT		E EARTHY
	FAULT		WIRELINE TESTED - RT		FX FINELYXLN
	FORMATION TOP		DRILL STEM TEST		BS GRAINSTONE
	GAS SHOW		MIN DEPTH		L LITHOGRAPHIC
	OIL SHOW				MX MICROXLN
	MIN DEPTH UP	Rounding			
					MX MUDSTONE
	MIN DEPTH (DOWN)		ANGULAR		PS PACKSTONE
	NORMAL FAULT		ROUNDED		WS WACKESTONE
	OVERTURNED STRATA		SUBANG		
	REVERSE FAULT		SUBRND		
Sorting					
	CASING				M MODERATE
Textures					
	SIDEWALL CORE (LEFT)				P POOR
	SIDEWALL CORE (RIGHT)		BS BOUNDSTONE		W WELL
	SLIDE		CHALKY		
	SURVEY		CRYPTOXLN		

Slide/Rotate	
<div>ROP</div> <div>ROP</div>	
<div>Total Gas & Chromatograph</div> <div> <div>GAS</div> <div>C1</div> <div>C2</div> <div>C3</div> <div>C4</div> </div>	<div> <div>COLUMBINE LOGGING RIGGED</div> <div>UP ON 4/25/2015 MANNED</div> <div>2-PERSON LOGGING WITH</div> <div>BLOODHOUND GAS</div> <div>CHROMATOGRAPH #0298</div> </div> 
Depth Labels	<div>5,960</div> <div>5,970</div> <div>5,980</div> <div>5,990</div> <div>6,000</div> <div>6,010</div> <div>6,020</div> <div>6,030</div> <div>6,040</div> <div>6,050</div> <div>6,060</div> <div>6,070</div> <div>6,080</div> <div>6,090</div> <div>6,100</div> <div>6,110</div> <div>6,120</div> <div>6,130</div>
<div>% Lith</div>	
Gamma	<div>300</div> <div>138</div> <div>126</div> <div>300</div>
GAMMA	<div>5999</div> <div>5900</div>
<div>Well Bore</div> <div>TVD</div>	<div> <div>BEGIN LOGGING F/ 6000' MD</div> <div>@ 11:27 HRS ON 4/25/2015</div> </div> <div> <div>MD: 6,017'</div> <div>TVD: 5,986.52'</div> <div>Inclination: 0.8°</div> <div>Azimuth: 349.8°</div> <div>VS: -229.42'</div> </div> <div> <div>MD: 6,112'</div> <div>TVD: 6,081.51'</div> <div>Inclination: 1°</div> <div>Azimuth: 335.4°</div> <div>VS: -228.89'</div> </div>
Oil Show	<div> <div>SHY SLTST: lt-med gy, silt-vf gr, sl frm-hd, sb ply-sb blk, gf tex, arg cnt, sh incl, non calc; SLTY SH: med-dk gy, silt-nic gr, sl frm, sb ply-pty, rthy-sb rthy tex, mot ip, non calc, slow difse, mod string, bri bl cut</div> <div>7050</div> </div> <div> <div>SLTY SH: med-dk gy, silt-nic</div> <div>SHY SLTST: lt-med gy, silt-vf</div> <div>calc; SHY SS: wht-lt gy, sl frm</div> <div>md-ang, calc incl, sh incl, arg</div> <div>7050</div> </div>
Images	









4/26/2015

MINDEPTH

241 OP (W/N)

ROP (W/N)

243

254

BUSTER

3969u

4209u

2127u

6500

4263u

2652u

GAS (u/s)

C-C4 (PPM)

GAS (u/s)

C-C4 (PPM)

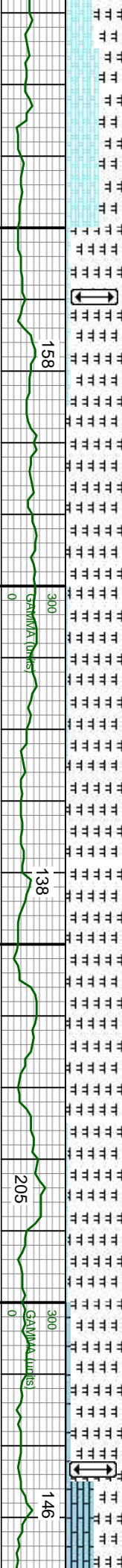
FT. HAYS TOP

7223 MD / 6919' TVD

NIORARA C MARL TOP

7060 MD / 6871' TVD

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



str, sb ply-bkly, brit, sl sft, v calc; MRLST: med-dk gy, sb ply-ply, gt tex, calc, tr diss pyr; CHK: lt-med gy, str, sb ply-bkly, brit, sl sft, sb rthy-sm tex, v calc, tr bent, mod difse, mod fast stmg, bri bl cut

MRLST: med-dk gy, mot-spec, slt gr, sl frm, sb ply-ply, gt tex, calc, tr diss pyr; CHK: lt-med gy, str, sb ply-bkly, brit, sl sft, sb rthy-sm tex, v calc, tr bent, mod difse, mod fast stmg, bri bl cut

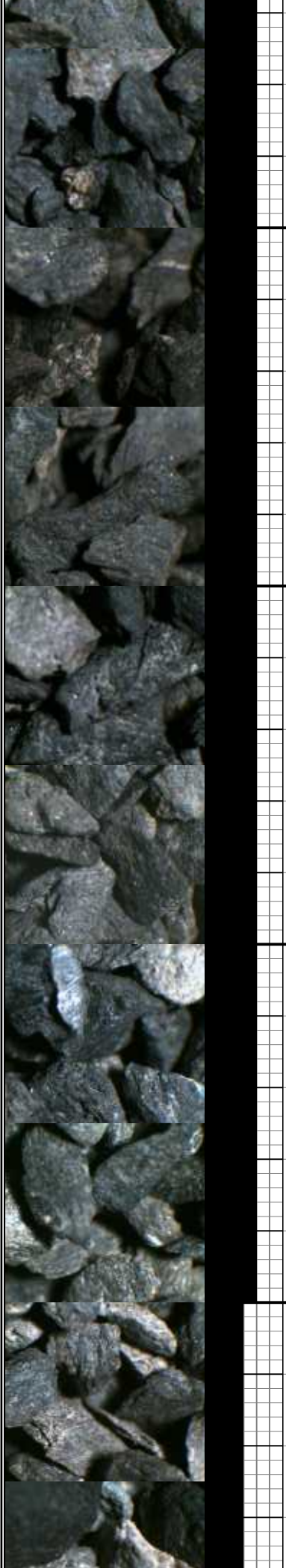
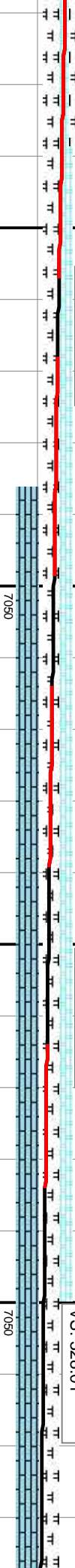
MRLST: med-dk gy, mot-spec, slt gr, sl frm, sb ply-ply, gt tex, calc, tr diss pyr; CHK: lt-med gy, str, sb ply-bkly, brit, sl sft, sb rthy-sm tex, v calc, tr bent, mod difse, mod fast stmg, bri bl cut

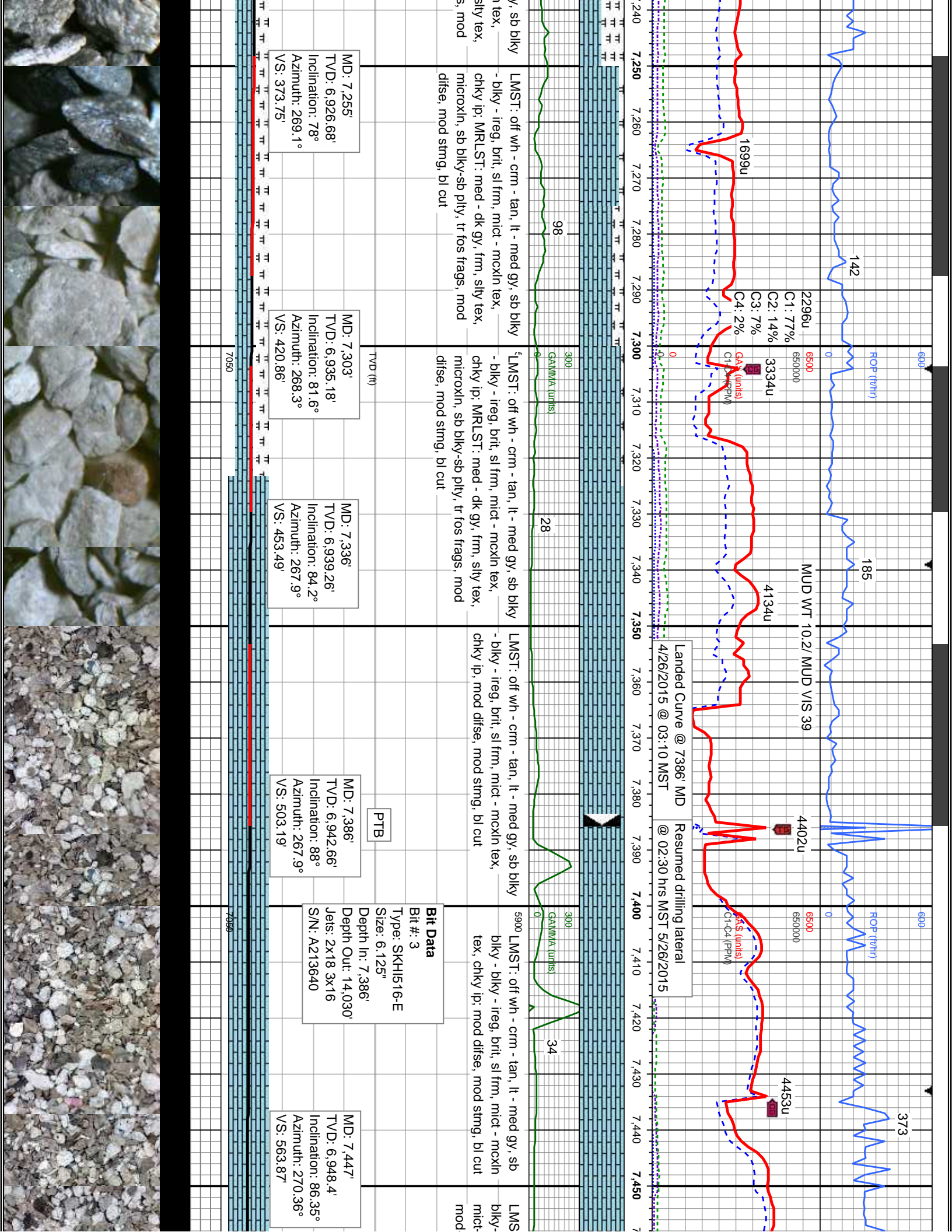
LMST: off wh - crm - tan, lt - med g - bkly - ireg, brit, sl frm, micr - mcklr chky ip; MRLST: med - dk gy, frm, i - microxin, sb bkly-sb ply, tr fos fragr difse, mod stmg, bl cut

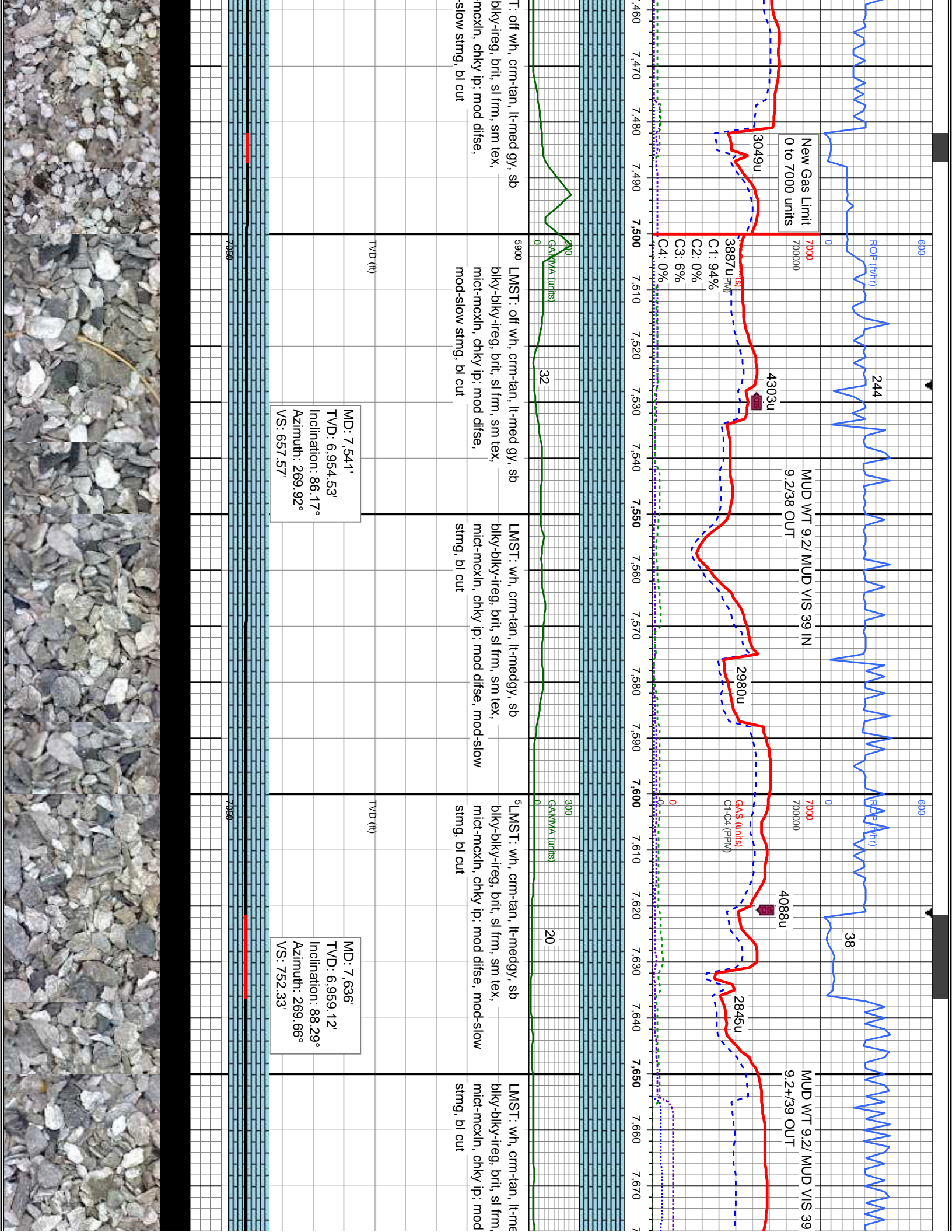
MD: 7,065'
TVD: 6,873.72'
Inclination: 68.1°
Azimuth: 272.3°
VS: 191.66'

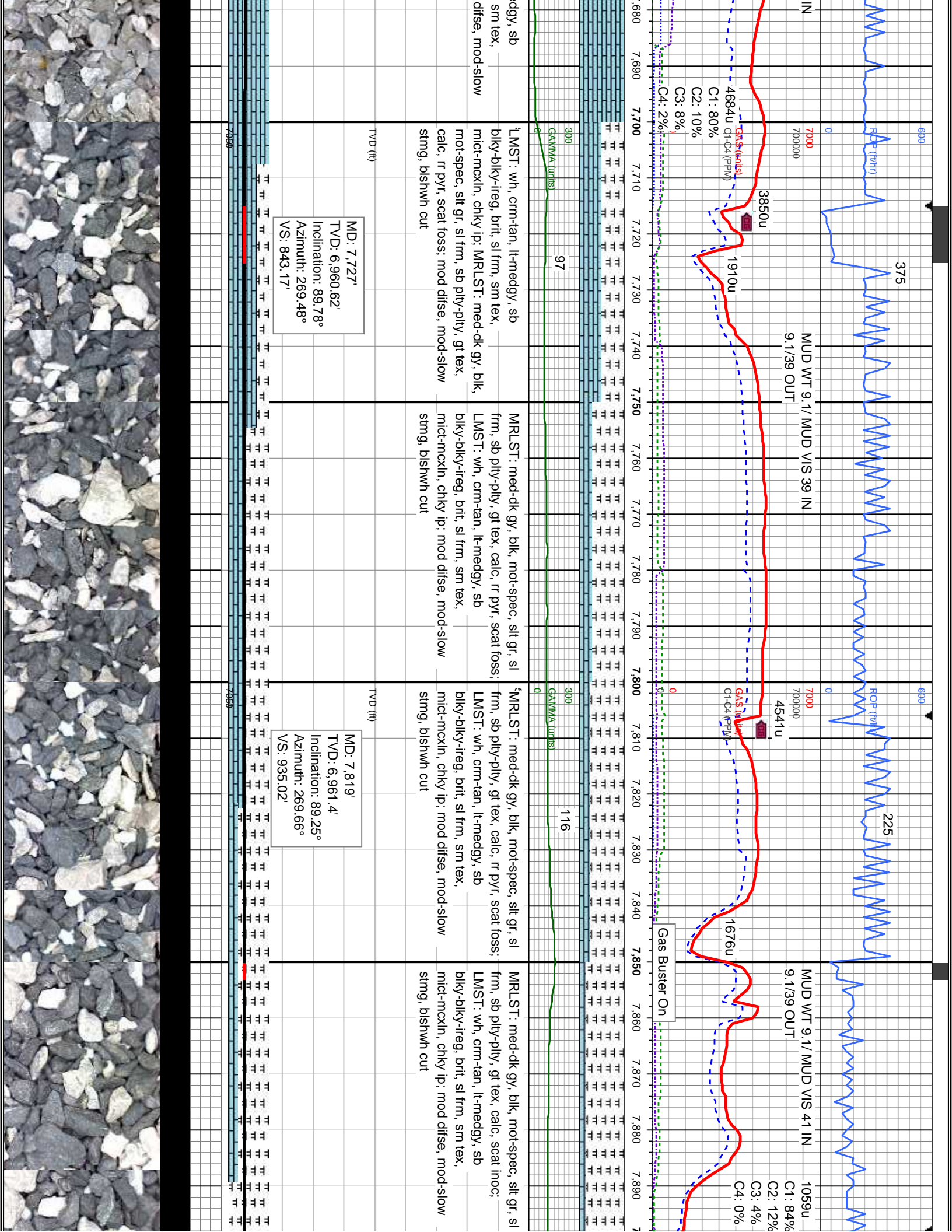
MD: 7,160'
TVD: 6,904.09'
Inclination: 74.6°
Azimuth: 271.2°
VS: 281.6'

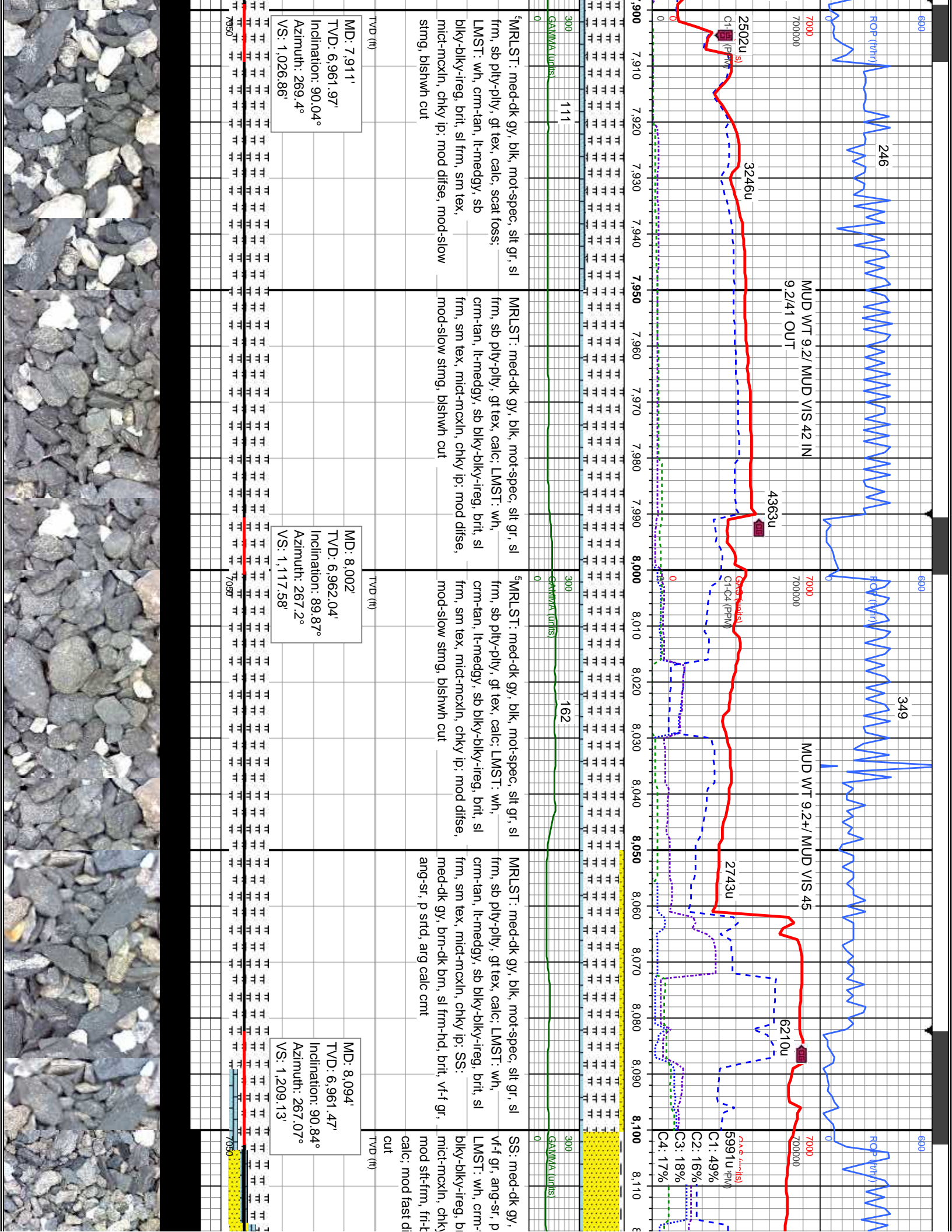
MD: 7,208'
TVD: 6,916.19'
Inclination: 76.2°
Azimuth: 269.8°
VS: 328.01'











349

373

630

630

ROP (ft)

ROP (ft)

5535u MUD WT 9.4/ MUD VIS 44 IN 5735u 5686u MUD WT 9.5/ MUD VIS 44 IN 5817u 5482u PPM

9.4/43 OUT

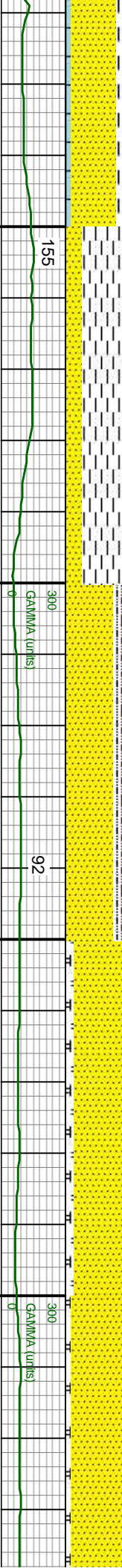
9.2/38 OUT

9.5/44 OUT

GAS (mls)
C1-C4 (PPM)

GAS (mls)
C1: 67%
C2: 7%
C3: 20%
C4: 6%

8,120 8,130 8,140 8,150 8,160 8,170 8,180 8,190 8,200 8,210 8,220 8,230 8,240 8,250 8,260 8,270 8,280 8,290 8,300 8,310 8,320 8,330



brn-dk brn, sl frm-hd, brit, strd, arg calc cnt, occ pyr, an, lt-medgy, sb it, sl frm, sm tex, ip, SH: med-dk gy, blk ip, brit, silty-arg, pily-sb pily, rthy, fse, mod fast sting, yel-bl cut

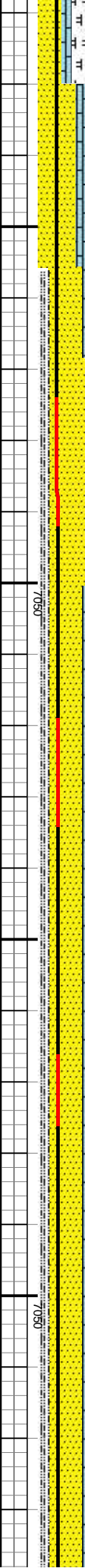
SH: dk gy, blk, sl frm-hd, sit gr, rthy, pily-sb pily, fis ip, sl calc, SS: med-dk gy, brn-dk brn, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cnt, occ pyr, ls frags, SLTY SH: dk gy, blk, sl frm-hd, sit gr, pily-sb pily, fis ip, sl calc, mod fast difse, mod fast sting, yel-bl cut

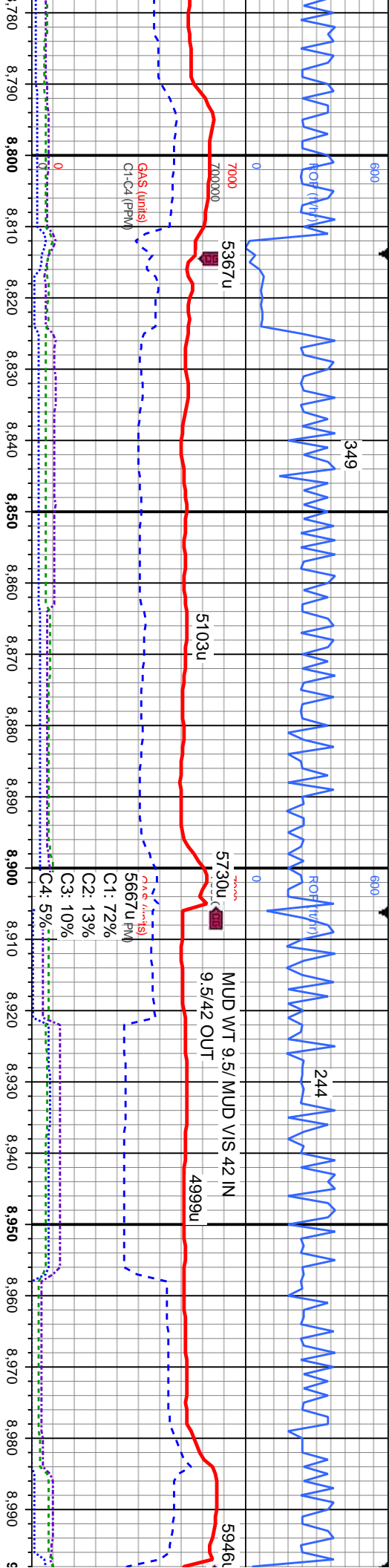
SS: med-dk gy, brn-dk brn, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cnt, occ pyr, ls frags, MRLST: med-dk gy, blk, mot-spec, sit gr, sl frm, sb pily-pily, gt tex, calc, grdg-sh, tr inoc frags, mod fast difse, mod fast sting, yel-bl cut

SS: med-dk gy, brn-dk brn, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cnt, occ pyr, ls frags, MRLST: med-dk gy, blk, mot-spec, sit gr, sl frm, sb pily-pily calc, grdg-sh, tr inoc frags, mod fast difse, mod fast sting, yel-bl cut

MD: 8,185'
TVD: 6,960.14'
Inclination: 90.84°
Azimuth: 269.51°
VS: 1,299.83'

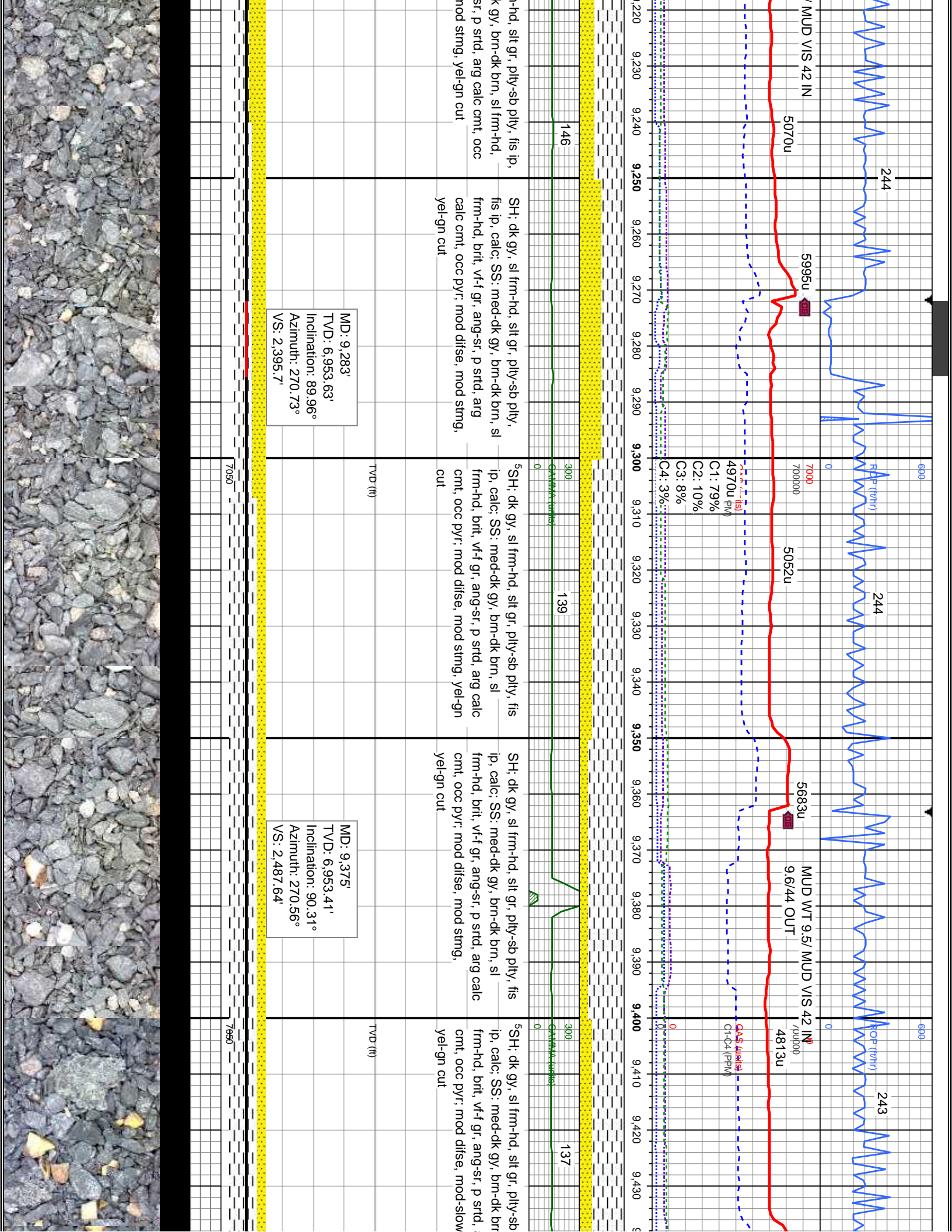
MD: 8,277'
TVD: 6,958.09'
Inclination: 91.71°
Azimuth: 270.02°
VS: 1,391.67'

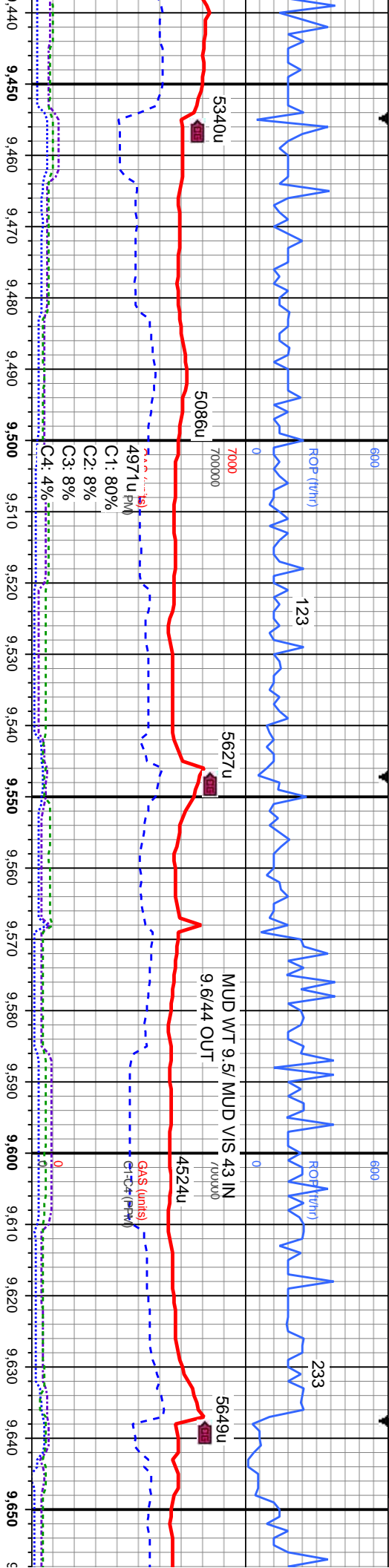




5SS: med-dk gy, brn-dk brn, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cnt, occ pyr; SLTY SH; dk gy, sl frm-hd, slt gr, pily-sb pily, fis ip, sl calc; mod difse, mod-slow string, bishwh cut	SS: med-dk gy, brn-dk brn, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cnt, occ pyr; SLTY SH; dk gy, sl frm-hd, slt gr, pily-sb pily, fis ip, sl calc; mod difse, mod-slow string, bishwh cut	5SS: med-dk gy, brn-dk brn, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cnt, occ pyr; SLTY SH; dk gy, sl frm-hd, slt gr, pily-sb pily, fis ip, sl calc; mod difse, mod-slow string, bishwh cut
300	113	300
GAMMA (units)	GAMMA (units)	GAMMA (units)
0	0	0
7050	7050	7050
MD: 8,826' TVD: 6,950.76' Inclination: 90.84° Azimuth: 269.23° VS: 1,939.48'		
MD: 8,918' TVD: 6,949.35' Inclination: 90.92° Azimuth: 269° VS: 2,031.28'		







ply, fls	SH: dk gy, sl frm-hd, slt gr, ply-sb ply, fls ip, calc; SS: med-dk gy, brn-dk brn, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cmt, occ pyr; mod difse, mod-slow sting, yel-gn cut	SH: dk gy, blk, sl frm-hd, slt gr, ply-sb ply, fls ip, calc; SS: med-dk gy, brn-dk brn, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cmt, occ pyr; mod difse, mod-slow sting, yel-gn cut	SH: dk gy, blk, sl frm-hd, slt gr, ply-sb ply, fls ip, calc; LMST: wh, crm-tan, lt-medgy, sb blkly-blky-ireg, brit, sl frm, sm tex, mict-mcxltn; SS: med-dk gy, brn-dk brn, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cmt, grdg-shy ss; mod difse, mod-slow sting, yel-gn cut	SH: dk gy, blk, sl frm-hd, slt gr, ply-sb ply, fls ip, calc; SS: med-dk gy, brn-dk brn, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cmt, grdg-shy ss; mod difse, mod-slow sting, yel-gn cut
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MD: 9,467'
TVD: 6,953.13'
Inclination: 90.04°
Azimuth: 270.2°
VS: 2,579.55'

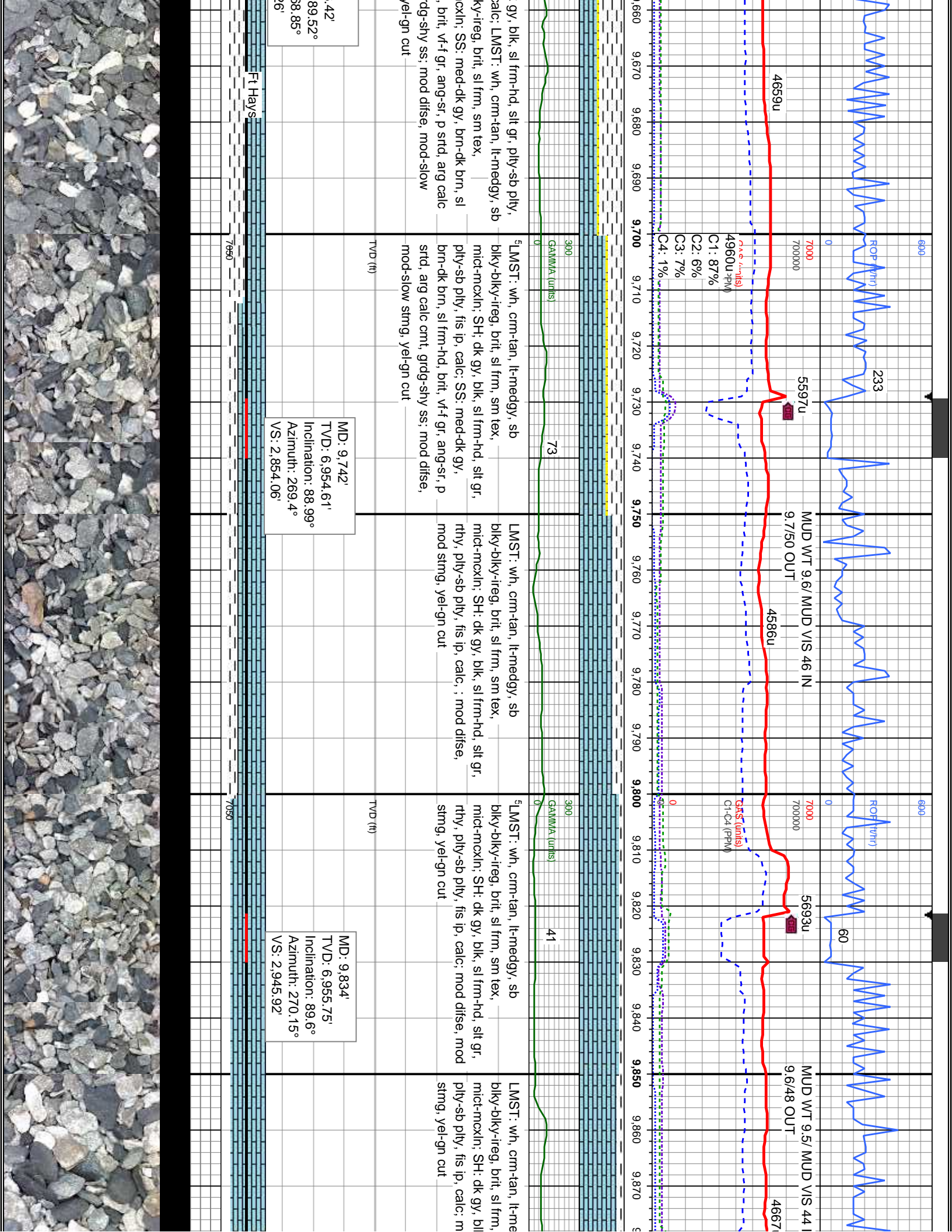
MD: 9,558'
TVD: 6,953.06'
Inclination: 90.04°
Azimuth: 269.6°
VS: 2,670.44'

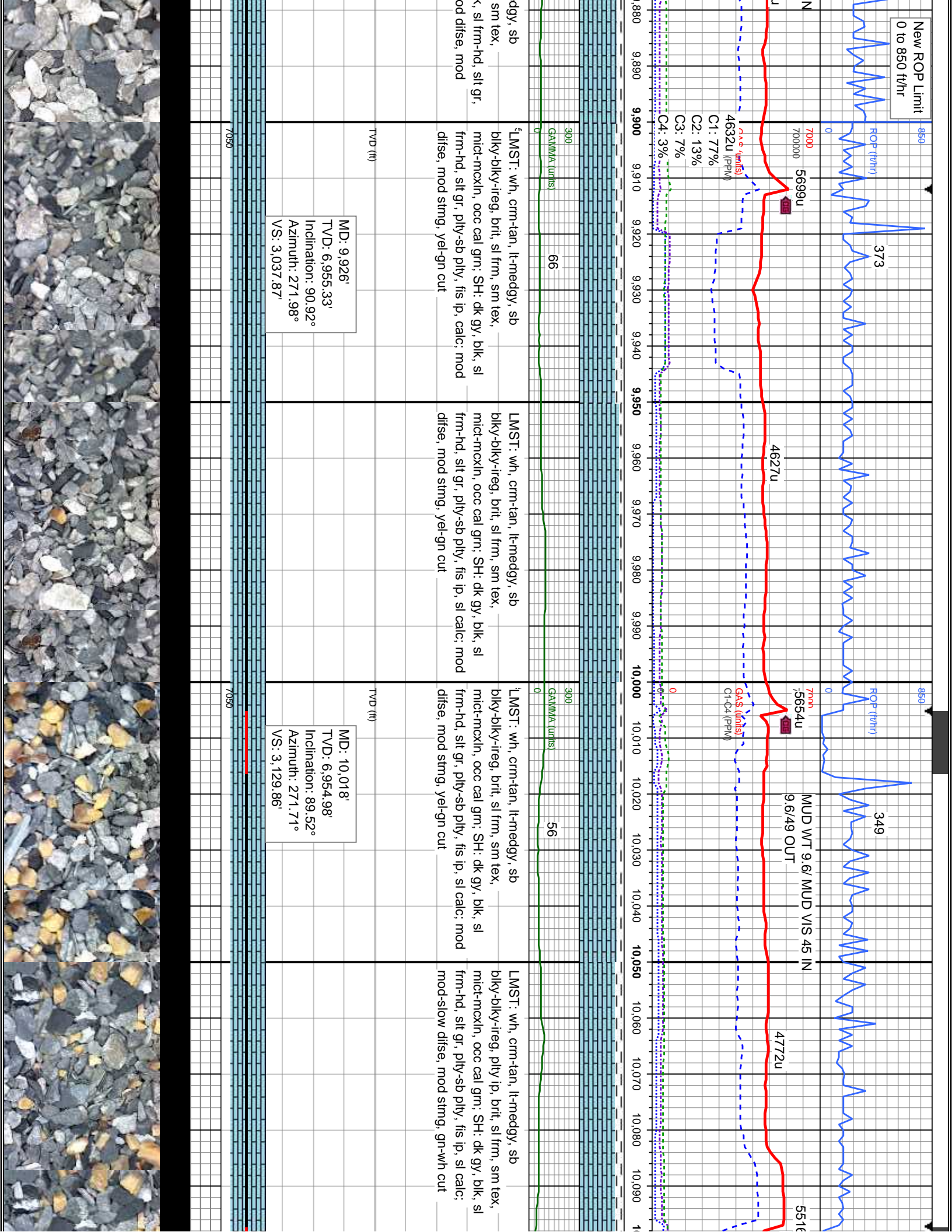
MD: 9,650'
TVD: 6,953
Inclination: 2°
Azimuth: 2°
VS: 2,762.2'

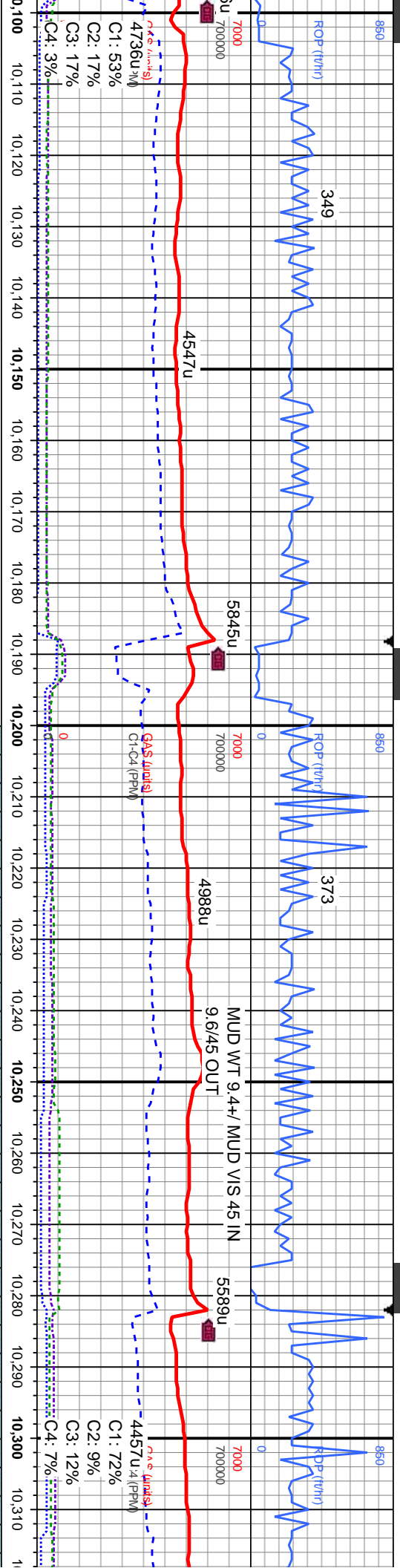
Carlise

Potential U/D Fault









LMST: wh, crm-tan, lt-medgy, sb
biky-biky-ireg, pty ip, brit, sl frm, sm tex,
mict-mcxlh, occ cal grn; SH: dk gy, blk, sl
frm-hd, sit gr, pty-sb pty, fis ip, sl calc;
mod-slow difse, mod stmg, gn-wh cut

LMST: wh, crm-tan, lt-medgy, sb
biky-biky-ireg, pty ip, brit, sl frm, sm tex,
mict-mcxlh, occ cal grn; SH: dk gy, blk, sl
frm-hd, sit gr, pty-sb pty, fis ip, sl calc;
mod-slow difse, mod stmg, gn-wh cut

LMST: wh, crm-tan, lt-medgy, sb
biky-biky-ireg, pty ip, brit, sl frm, sm tex,
mict-mcxlh, occ cal grn, tr sh; mod-slow
difse, mod stmg, gn-wh cut

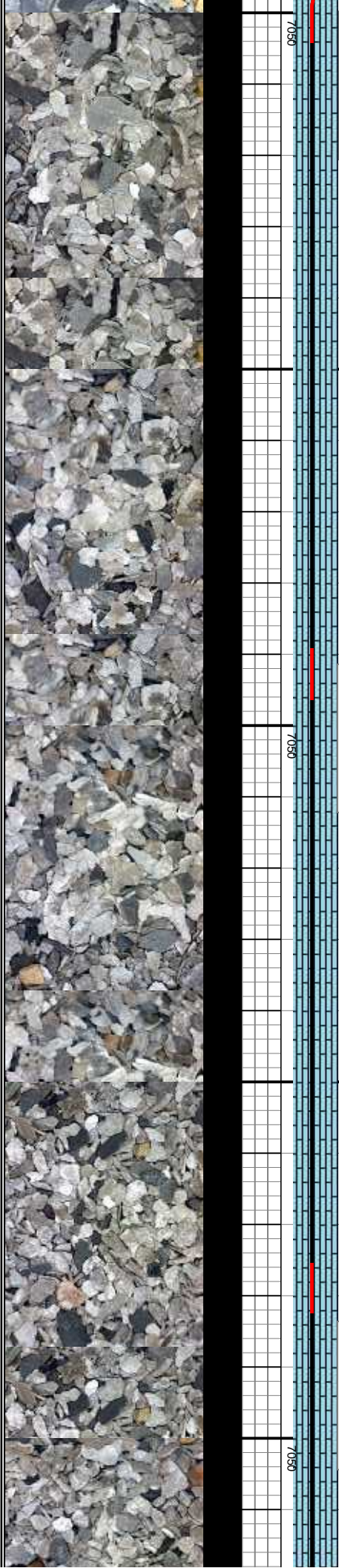
LMST: wh, crm-tan, lt-medgy, sb
biky-biky-ireg, pty ip, brit, sl frm, sm tex,
mict-mcxlh, occ cal grn, tr sh; mod-slow
difse, mod stmg, gn-wh cut

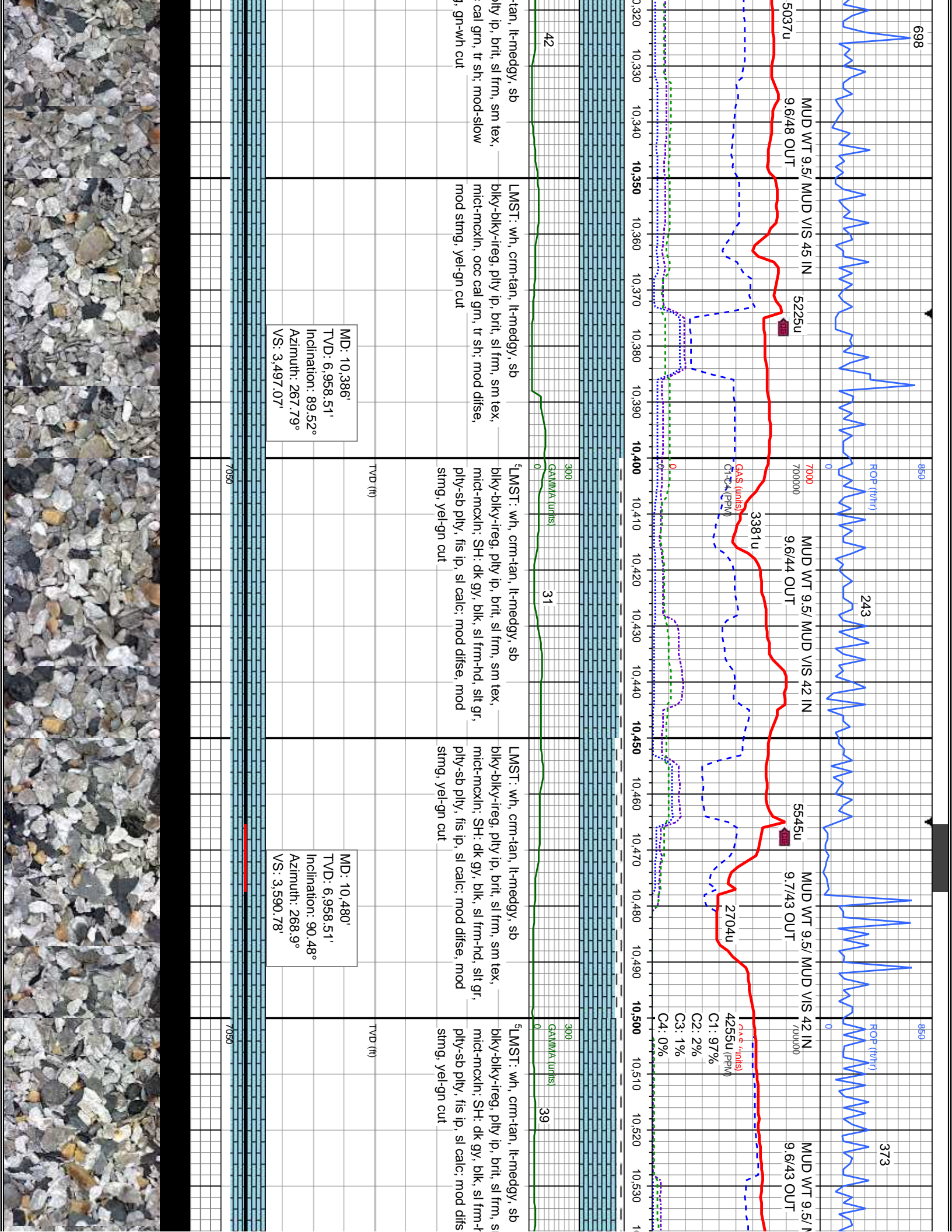
LMST: wh, crm-tan, lt-medgy, sb
biky-biky-ireg, pty ip, brit, sl frm, sm tex,
mict-mcxlh, occ cal grn, tr sh; mod-slow
difse, mod stmg, gn-wh cut

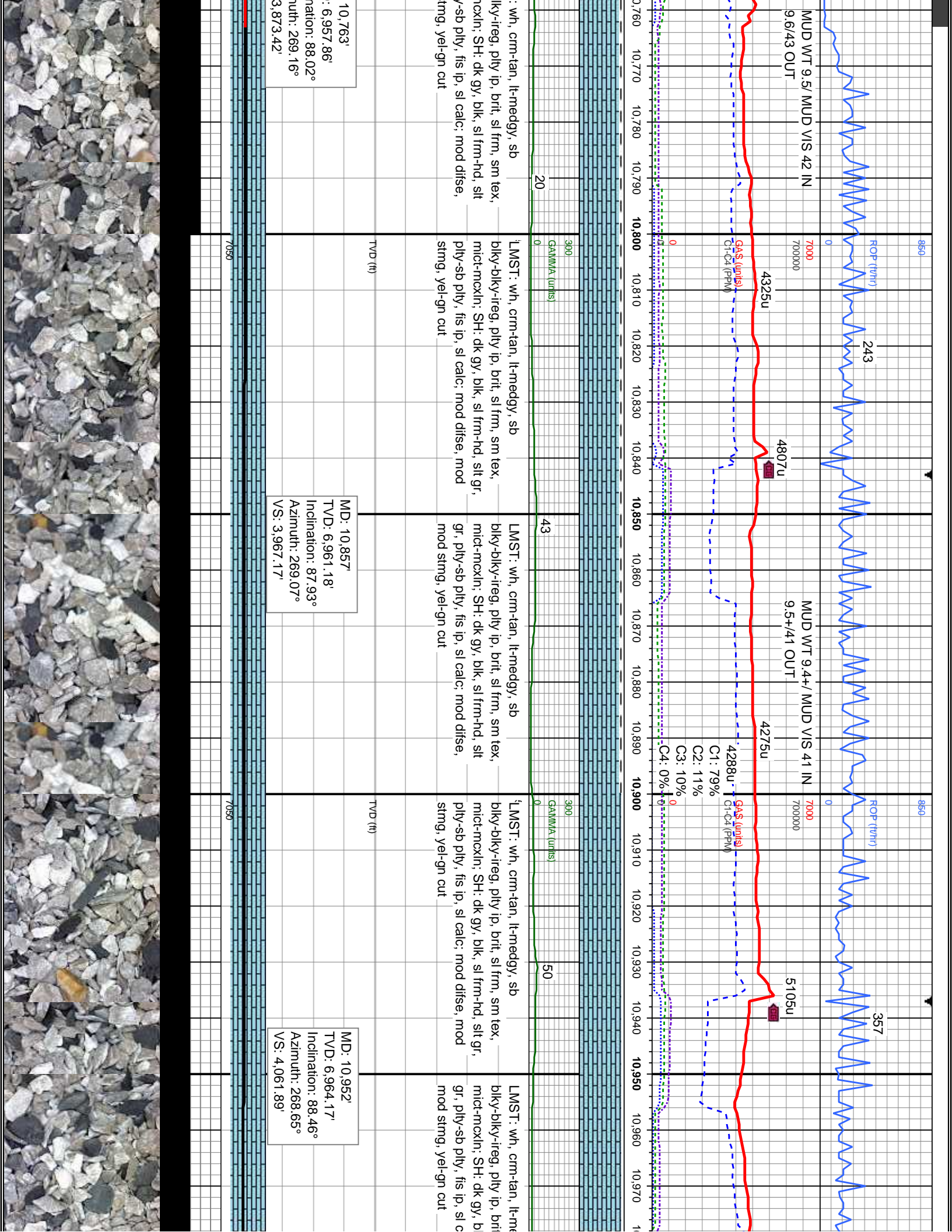
MD: 10,110'
TVD: 6,956.04'
Inclination: 89.16°
Azimuth: 270.24°
VS: 3,221.8'

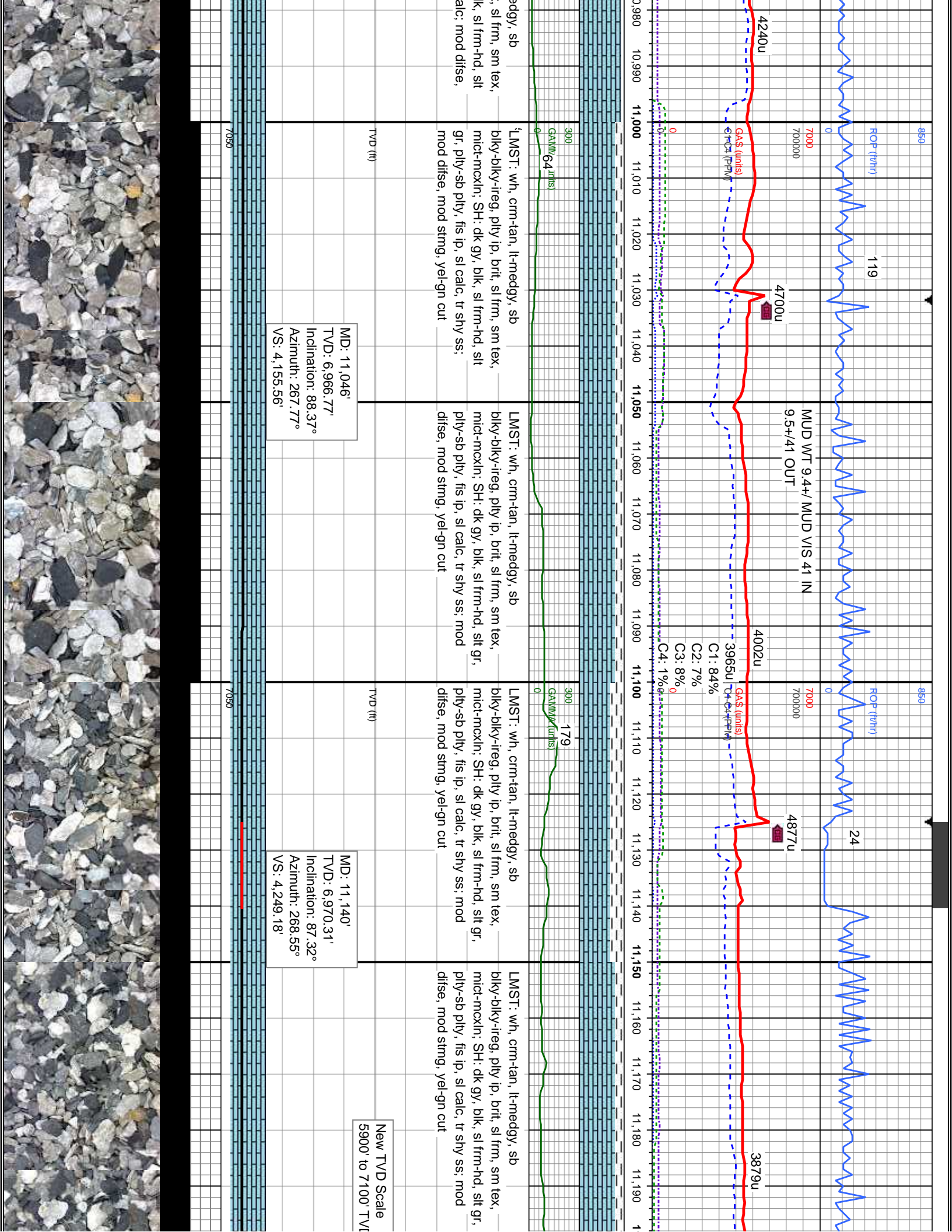
MD: 10,202'
TVD: 6,957.24'
Inclination: 89.34°
Azimuth: 268.81°
VS: 3,313.64'

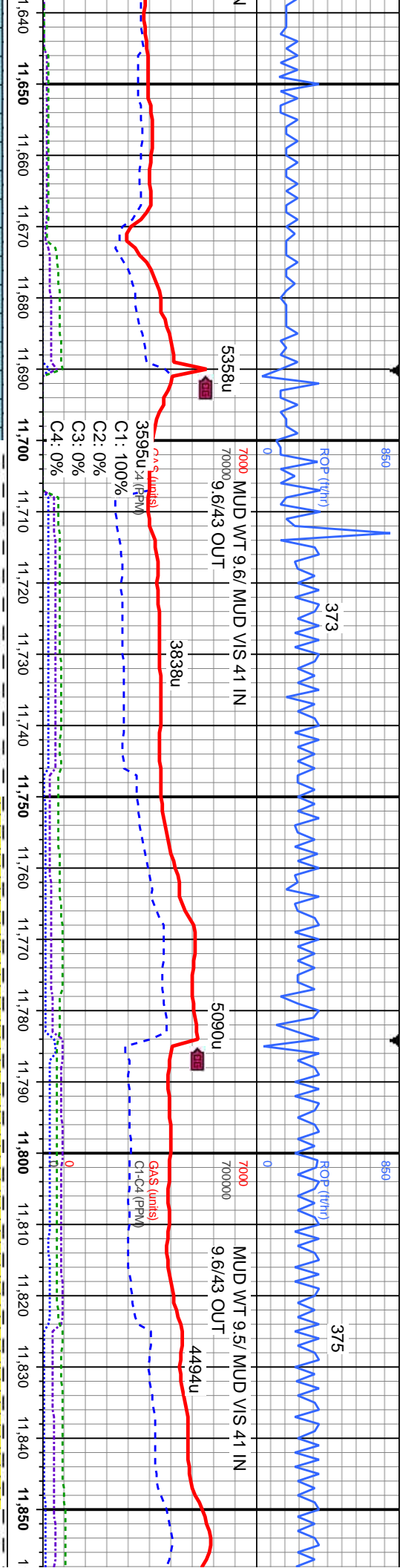
MD: 10,294'
TVD: 6,957.95'
Inclination: 89.78°
Azimuth: 268.3°
VS: 3,405.38'







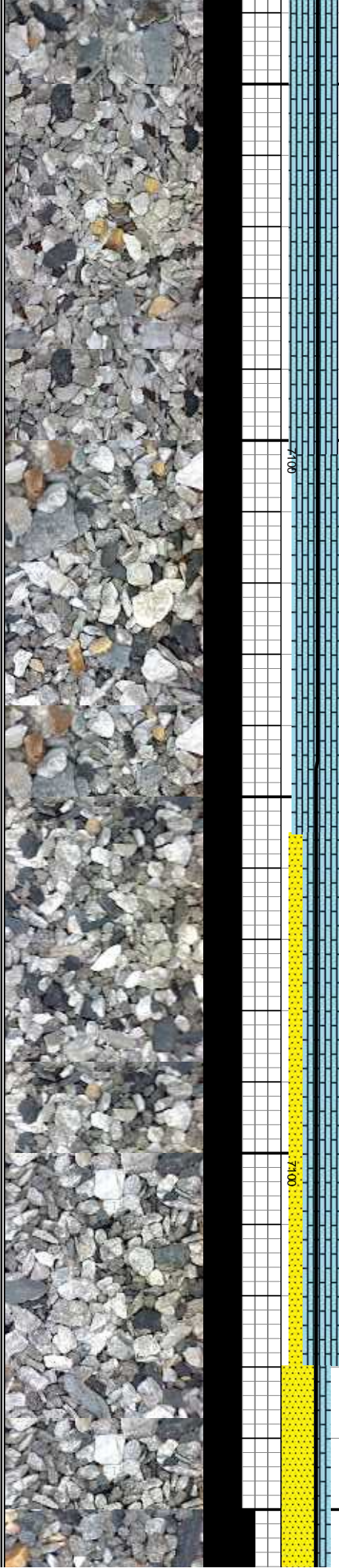


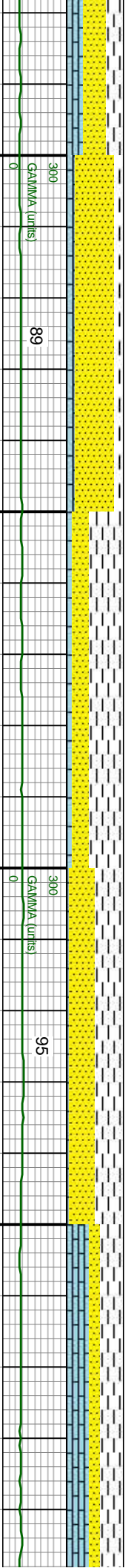
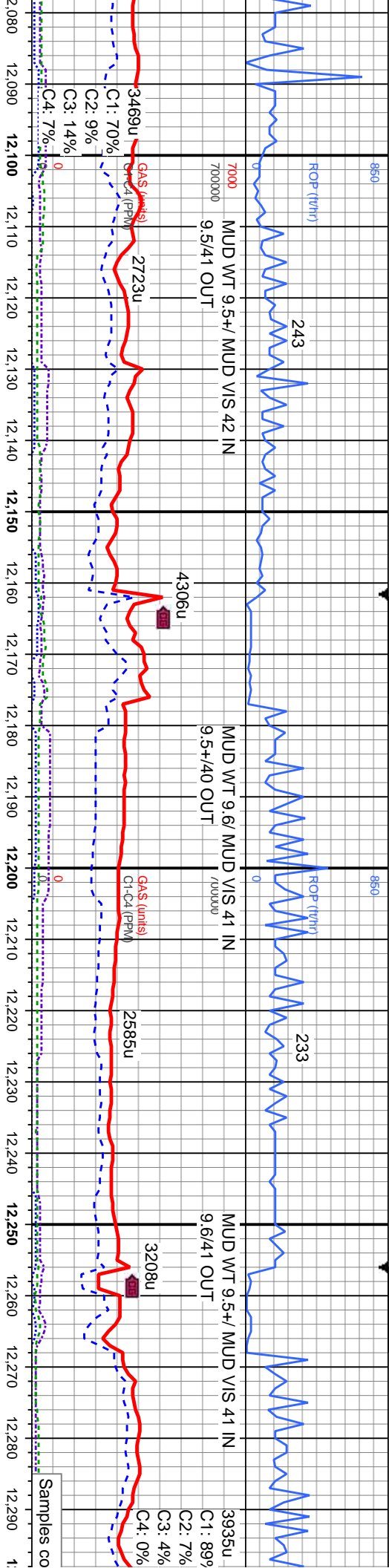


LMST: wh, crm-tan, lt-medgy, sb bkly-bkly-ireg, pily ip, brit, sl frm, sm tex, mict-mcxlh; SH: dk gy, blk, sl frm-hd, sit gr, pily-sb pily, fis ip, sl calc; mod difse, mod-slow sting, yel-gn cut	LMST: wh, crm-tan, lt-medgy, sb bkly-bkly-ireg, pily ip, brit, sl frm, sm tex, mict-mcxlh; SS: med-dk gy, brn-dk brn, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cmt; SH: dk gy, blk, sl frm-hd, sit gr, pily-sb pily, fis ip, sl calc; mod difse, mod-slow sting, yel-gn cut	LMST: wh, crm-tan, lt-medgy, sb bkly-bkly-ireg, pily ip, brit, sl frm, sm tex, mict-mcxlh; SS: med-dk gy, brn-dk brn, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cmt; SH: dk gy, blk, sl frm-hd, sit gr, pily-sb pily, fis ip, sl calc; mod difse, mod-slow sting, yel-gn cut	SS: me vf-f gr, wh, crm ip, brit, gy, blk calc; r
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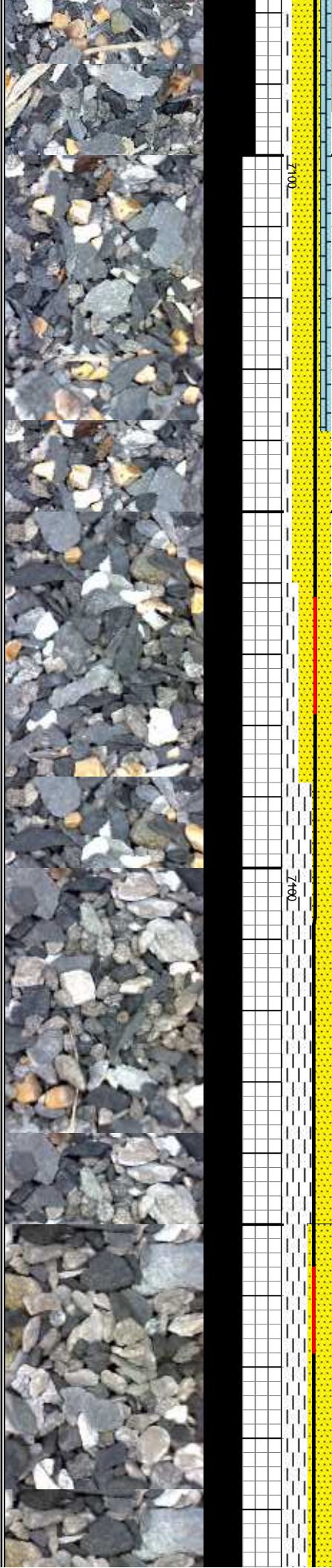
MD: 11,706'
TVD: 6,987.18'
Inclination: 87.58°
Azimuth: 269.69°
VS: 4,814.42'

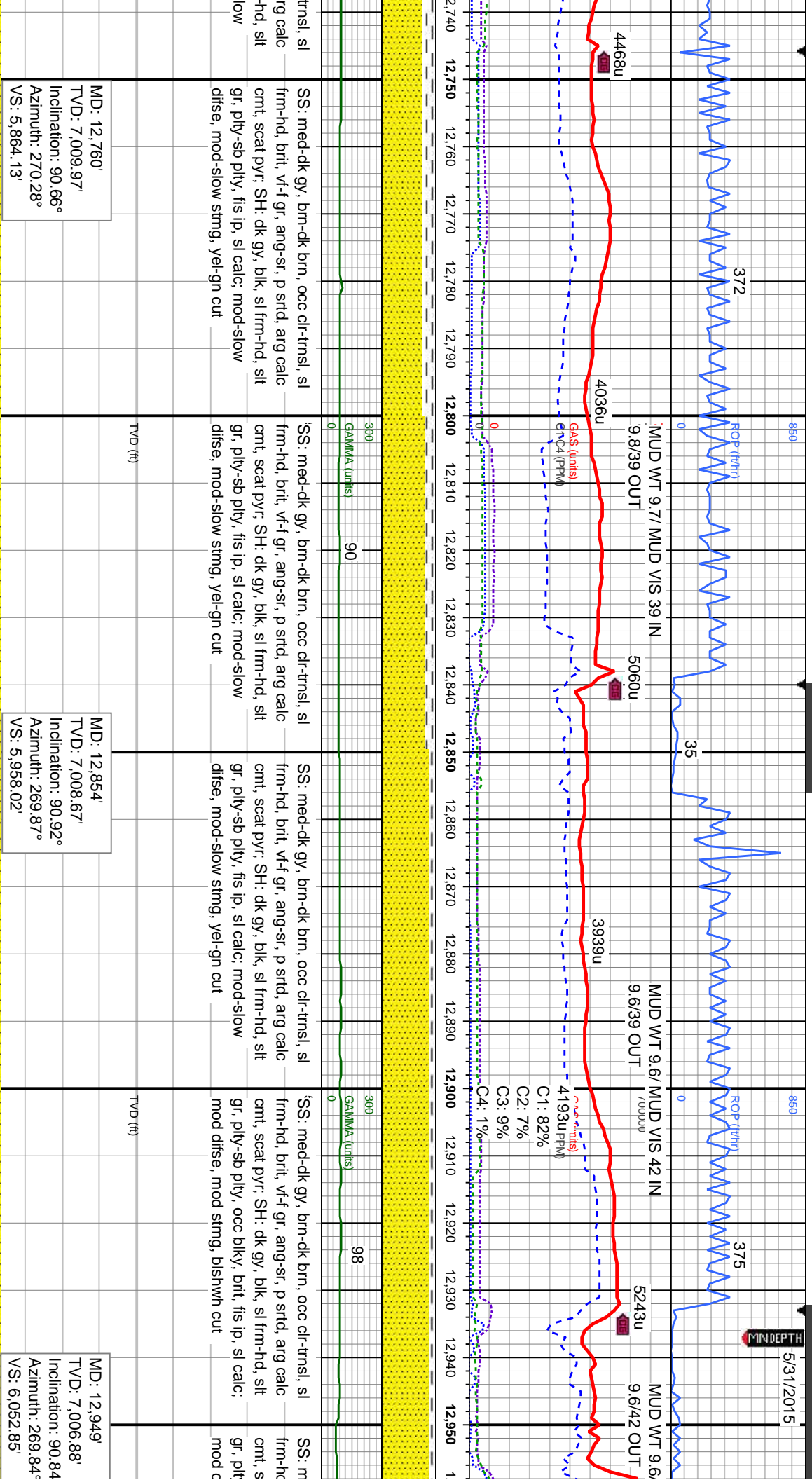
MD: 11,800'
TVD: 6,990.87'
Inclination: 87.93°
Azimuth: 268.41°
VS: 4,908.14'





12,083' ation: 89.52° uth: 266.64° 5,190.04'	5SS: med-dk gy, brn-dk brn, occ cl-trns, sl frn-hd, brit, vf-f gr, ang-sr, p strd, arg calc cmt, scat pyr; LMST: wh, crn-tan, lt-medgy, sb blk-y-bkly-ireg, ply ip, brit, sl frm, sm tex, mict-mcxln; SH: dk gy, blk, sl frm-hd, slt gr, ply-sb ply, fis ip, sl calc; SS: med-dk gy, brn-dk brn, sl frn-hd, brit, vf-f gr, ang-sr, p strd, arg calc cmt; LMST: wh, crn-tan, lt-medgy, sb blk-y-bkly-ireg, ply ip, brit, sl frm, sm tex, mict-mcxln; mod difse, mod string, yel-gn cut	MD: 12,177' TVD: 6,996.58' Inclination: 88.72° Azimuth: 266.8° VS: 5,283.5'	5SH: dk gy, blk, sl frm-hd, slt gr, ply-sb ply, fis ip, sl calc; SS: med-dk gy, brn-dk brn, sl frn-hd, brit, vf-f gr, ang-sr, p strd, arg calc cmt; LMST: wh, crn-tan, lt-medgy, sb blk-y-bkly-ireg, ply ip, brit, sl frm, sm tex, mict-mcxln; mod difse, mod string, yel-gn cut	MD: 12,272' TVD: 6,999.28' Inclination: 88.02° Azimuth: 266.34° VS: 5,377.9'
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MD: 12,760'
TVD: 7,009.97'
Inclination: 90.66°
Azimuth: 270.28°
VS: 5,864.13'

MD: 12,854'
TVD: 7,008.67'
Inclination: 90.92°
Azimuth: 269.87°
VS: 5,958.02'

MD: 12,949'
TVD: 7,006.88'
Inclination: 90.84°
Azimuth: 269.84°
VS: 6,052.85'

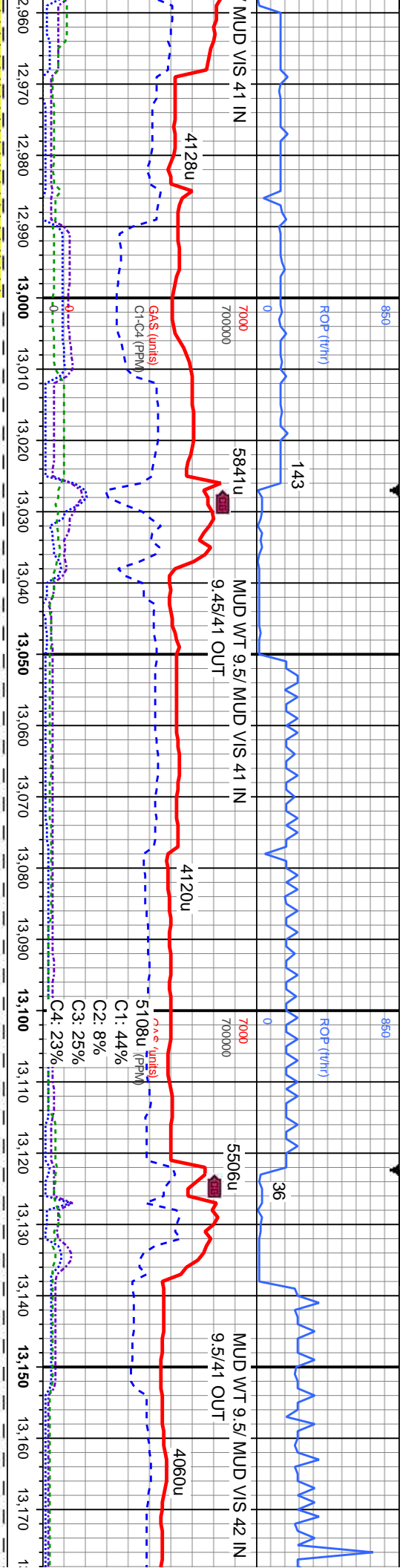
SS: med-dk gy, brn-dk brn, occ cl-trns, sl
frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc
cmt, scat pyr; SH: dk gy, blk, sl frm-hd, sit
gr, plty-sb plty, fis ip, sl calc; mod-slow
difse, mod-slow string, yel-gn cut

SS: med-dk gy, brn-dk brn, occ cl-trns, sl
frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc
cmt, scat pyr; SH: dk gy, blk, sl frm-hd, sit
gr, plty-sb plty, fis ip, sl calc; mod-slow
difse, mod-slow string, yel-gn cut

SS: med-dk gy, brn-dk brn, occ cl-trns, sl
frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc
cmt, scat pyr; SH: dk gy, blk, sl frm-hd, sit
gr, plty-sb plty, fis ip, sl calc; mod-slow
difse, mod-slow string, yel-gn cut

SS: med-dk gy, brn-dk brn, occ cl-trns, sl
frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc
cmt, scat pyr; SH: dk gy, blk, sl frm-hd, sit
gr, plty-sb plty, occ blk, brit, fis ip, sl calc;
mod difse, mod string, bishwh cut

SS: m med-dk gy, brn-dk brn, occ cl-trns, sl
frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc
cmt, scat pyr; SH: dk gy, blk, sl frm-hd, sit
gr, plty-sb plty, occ blk, brit, fis ip, sl calc;
mod difse, mod string, bishwh cut



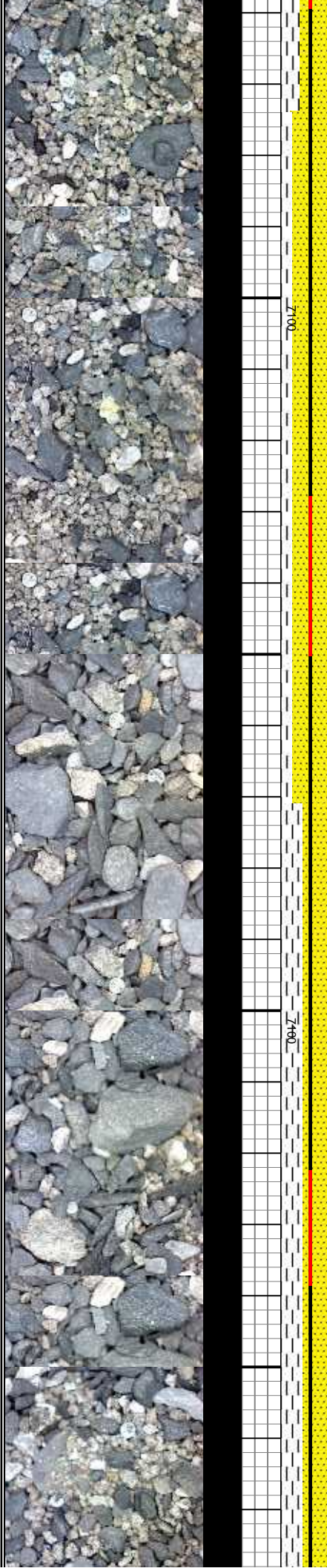
med-dk gy, brn-dk brn, occ clr-trnsl, sl	SS: med-dk gy, brn-dk brn, occ clr-trnsl, sl	SS: med-dk gy, brn-dk brn, occ clr-trnsl, sl
frim-hd, brit, vf-f gr, ang-sr, p strd, arg calc	frim-hd, brit, vf-f gr, ang-sr, p strd, arg calc	frim-hd, brit, vf-f gr, ang-sr, p strd, arg calc
cmnt, scat pyr; SH: dk gy, blk, sl frm-hd, sit	cmnt, scat pyr; SH: dk gy, blk, sl frm-hd, sit	cmnt, scat pyr; SH: dk gy, blk, sl frm-hd, sit
gr, plty-sb plty, occ blk, brit, fls ip, sl calc;	gr, plty-sb plty, occ blk, brit, fls ip, sl calc;	gr, plty-sb plty, occ blk, brit, fls ip, sl calc;
mod difse, mod stimg, bishwh cut	occ is; mod difse, mod stimg, bishwh cut	mod difse, mod stimg, bishwh cut

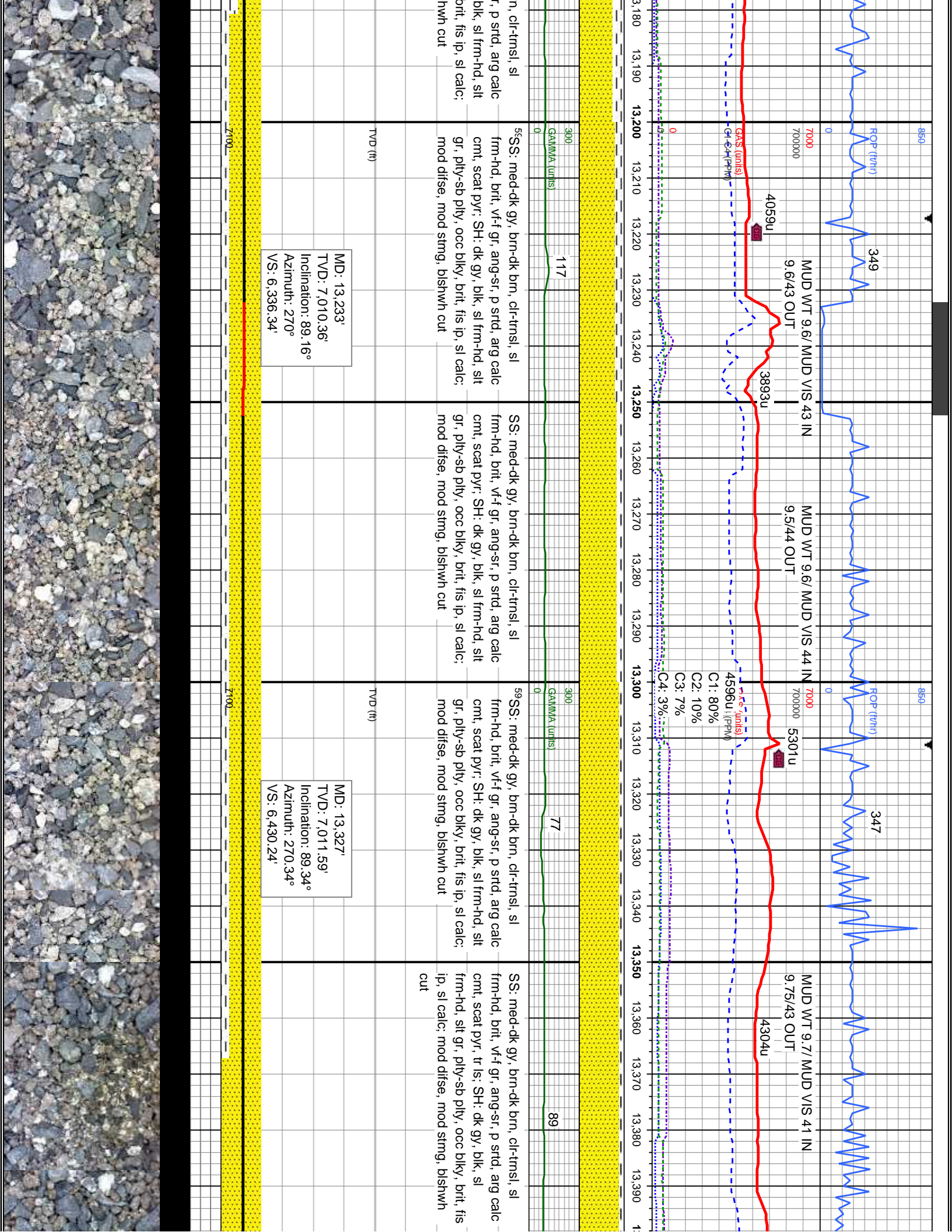
TVD (ft)

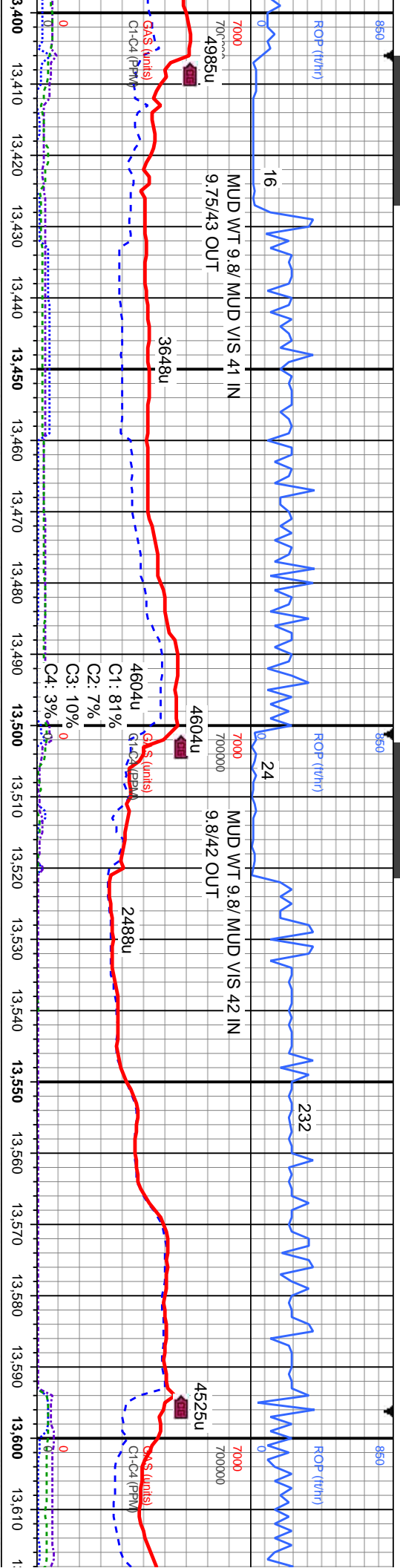
MD: 13,044'
TVD: 7,006.95'
Inclination: 89.08°
Azimuth: 269.14°
VS: 6.147.69'

TVD (ft)

MD: 13,138'
TVD: 7,008.68'
Inclination: 88.81°
Azimuth: 269.44°
VS: 6.241.5'





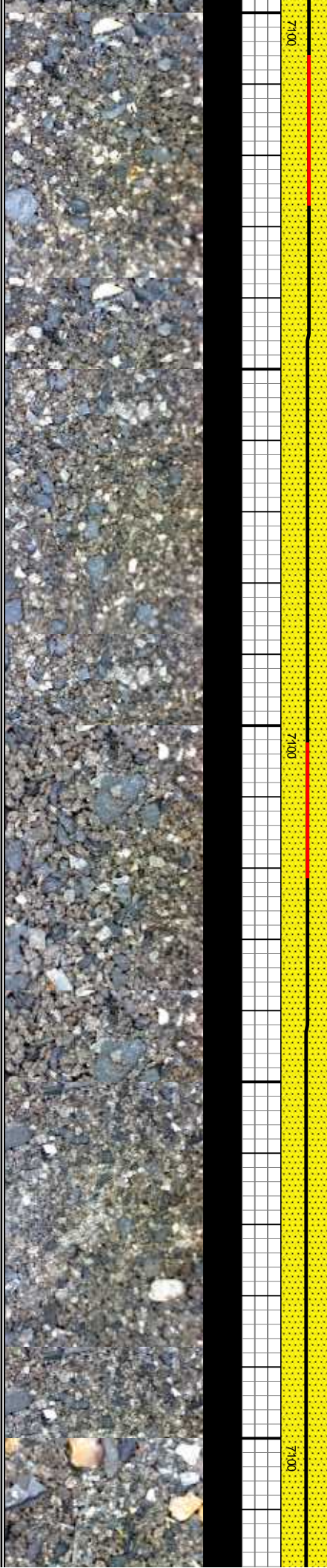


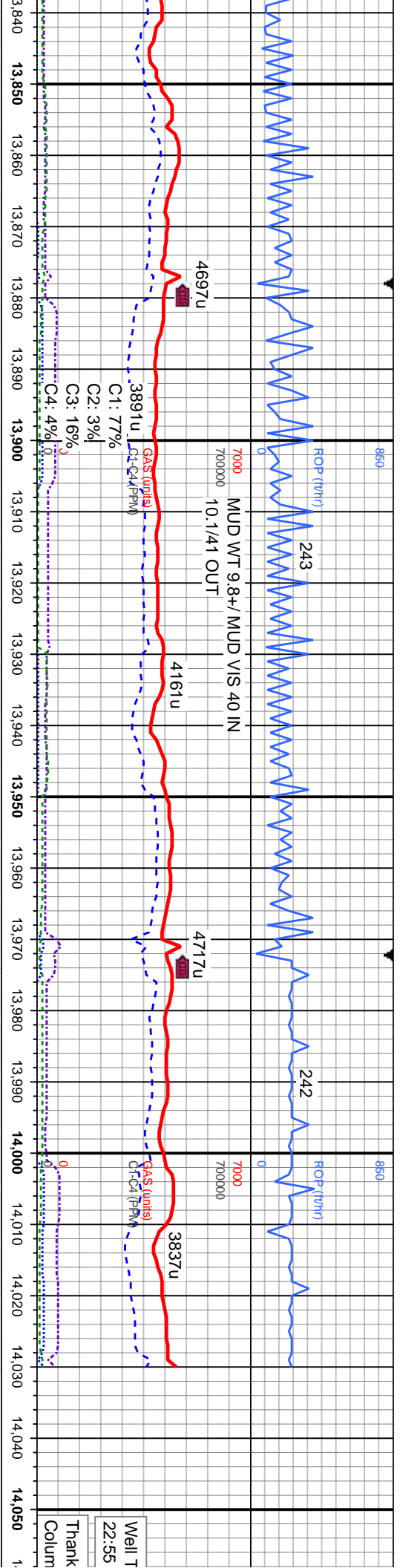
SS: med-dk gy, bmn-dk brn, clt-trnsl, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cnt, scat pyr, tr ls; SH: dk gy, blk, sl frm-hd, slt gr, ply-sb ply, occ blk, brit, fis ip, sl calc; mod difse, mod stmg, bishwh cut	SS: med-dk gy, bmn-dk brn, clt-trnsl, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cnt, scat pyr, tr ls; SH: dk gy, blk, sl frm-hd, slt gr, ply-sb ply, occ blk, brit, fis ip, sl calc; mod difse, mod stmg, bishwh cut	SS: med-dk gy, bmn-dk brn, clt-trnsl, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cnt, scat pyr, tr ls; SH: dk gy, blk, sl frm-hd, slt gr, ply-sb ply, occ blk, brit, fis ip, sl calc; mod difse, mod stmg, bishwh cut	SS: med-dk gy, bmn-dk brn, clt-trnsl, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cnt, scat pyr, tr ls; SH: dk gy, blk, sl frm-hd, slt gr, ply-sb ply, occ blk, brit, fis ip, sl calc; mod difse, mod stmg, bishwh cut
94	316	99	
GAMMA (units)	GAMMA (units)	GAMMA (units)	GAMMA (units)

MD: 13,422'
TVD: 7,013.86'
Inclination: 87.93°
Azimuth: 270.36°
VS: 6,525.12'

MD: 13,516'
TVD: 7,018.04'
Inclination: 86.97°
Azimuth: 270.36°
VS: 6,618.94'

MD: 13,611'
TVD: 7,022.48'
Inclination: 87.6°
Azimuth: 270.23°
VS: 6,713.75'





115	SS: med-dk gy, bmn-dk brn, clr-trnsl, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cnt, scat pyr, tr ls; SH: dk gy, blk, sl frm-hd, slt gr, pily-sb pily, occ blkly, brit, fis ip, sl calc; mod difse, mod string, bishwh cut	123	SS: med-dk gy, bmn-dk brn, clr-trnsl, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cnt, scat pyr, tr ls; SH: dk gy, blk, sl frm-hd, slt gr, pily-sb pily, occ blkly, brit, fis ip, sl calc; mod difse, mod string, bishwh cut		SS: med-dk gy, bmn-dk brn, clr-trnsl, sl frm-hd, brit, vf-f gr, ang-sr, p strd, arg calc cnt, scat pyr, tr ls; SH: dk gy, blk, sl frm-hd, slt gr, pily-sb pily, occ blkly, brit, fis ip, sl calc; mod difse, mod string, bishwh cut
MD: 13,892' TVD: 7,027.62' Inclination: 90.13° Azimuth: 270.04° VS: 6,994.41'					
MD: 13,950' TVD: 7,027.44' Inclination: 90.22° Azimuth: 269.92° VS: 7,052.34'					
MD: 14,030' TVD: 7,027.14' Inclination: 90.22° Azimuth: 269.92° VS: 7,132.24'					



