



Scale: 5" / 100'
Measured Depth Log

Well Name SHERLEY E-4-9HN

Location Lat: 40.434325 Long: -104.675164

State COLORADO County WELD

Country USA Rig Number FRONTIER 10

API Number 05-123-40966 AFE # 40966

Region DJ BASIN Field WATTENBERG

Spud Date 4/4/2015 Drilling Completed 5/9/2015

Surface Coordinates
Sec 4 T5N R65W
SHL 516FNL, 714FWL

Bottom Hole Coordinates
Projected
Sec 9 T5N R65W
BHL 470FSL, 1090FWL

Ground Elevation 4641.3' K.B. Elevation 4666.3'

Logged Interval 6000' To 16817' Total Depth 16817'

Formation Niobrara C Chalk

Type of Drilling Fluid LSND

Operator

Company Bayswater Exploration and Production LLC.

Address 730 17th Street, Suite 610
Denver, CO 80202

Geologist

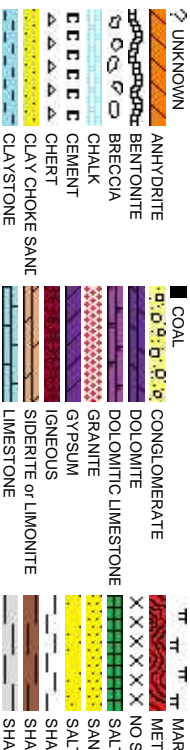
Name CHARLES TRODICK, TRACY LAWSON

Company COLUMBINE LOGGING, INC.
Address 602 S. LIPAN ST.
DENVER, CO 80223

Zone Color Coding



Rock Types



Accessories

Fossils

	GASTROPOD
	INOCERAMUS
	OOOLITE
	AMPHIPORA
	OSTRACOD
	BELEMNITE
	BIOCLASTIC
	BRACHIOPOD
	BRYOZOA
	CEPHALOPOD
	CORAL
	CRINOID
	ECHINOID
	FISH
	FORAMINIFERA
	F FOSSIL

Minerals

	ARGILLITE GRAIN
	B BENTONITE
	H HEAVY MINERAL
	K KAOLIN
	M MARCASITE
	BRECCIA FRAGMENTS
	C CALCAREOUS
	CARBONACEOUS FLAKES
	CHERT
	COAL - THIN BEDS
	D DOLOMITIC
	F FELDSPAR
	FERRUGINOUS PELLET
	F FERRUGINOUS
	G GLAUCONITE
	G GYPSIFEROUS
	S SILICEOUS
	S SILTY
	T TUFFACEOUS

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

Oil Show

	P PINPOINT
	V VUGGY
	D DEAD
	E EVEN
	Q QUESTIONABLE
	BIT
	SPOTTED STAINING
	CONNECTION (UP)

Engineering

	DST INTERVAL
	FAULT
	FORMATION TOP
	GAS SHOW
	OIL SHOW
	MN DEPTH UP

	WIRELINE TESTED - LEFT
	WIRELINE TESTED - RT
	DRILL STEM TEST
	MN DEPTH
	G GRAINSTONE
	L LITHOGRAPHIC
	MX MICROXLN
	M MUDSTONE

Rounding

	A ANGULAR
	P PACKSTONE

Porosity

	CONNECTION (DOWN)
	CONNECTION GAS
	CONNECTION GAS (LEFT)
	TRIP GAS
	TRIP GAS (LEFT)

	NORMAL FAULT
	OVERTURNED STRATA
	REVERSE FAULT
	CASING

Textures

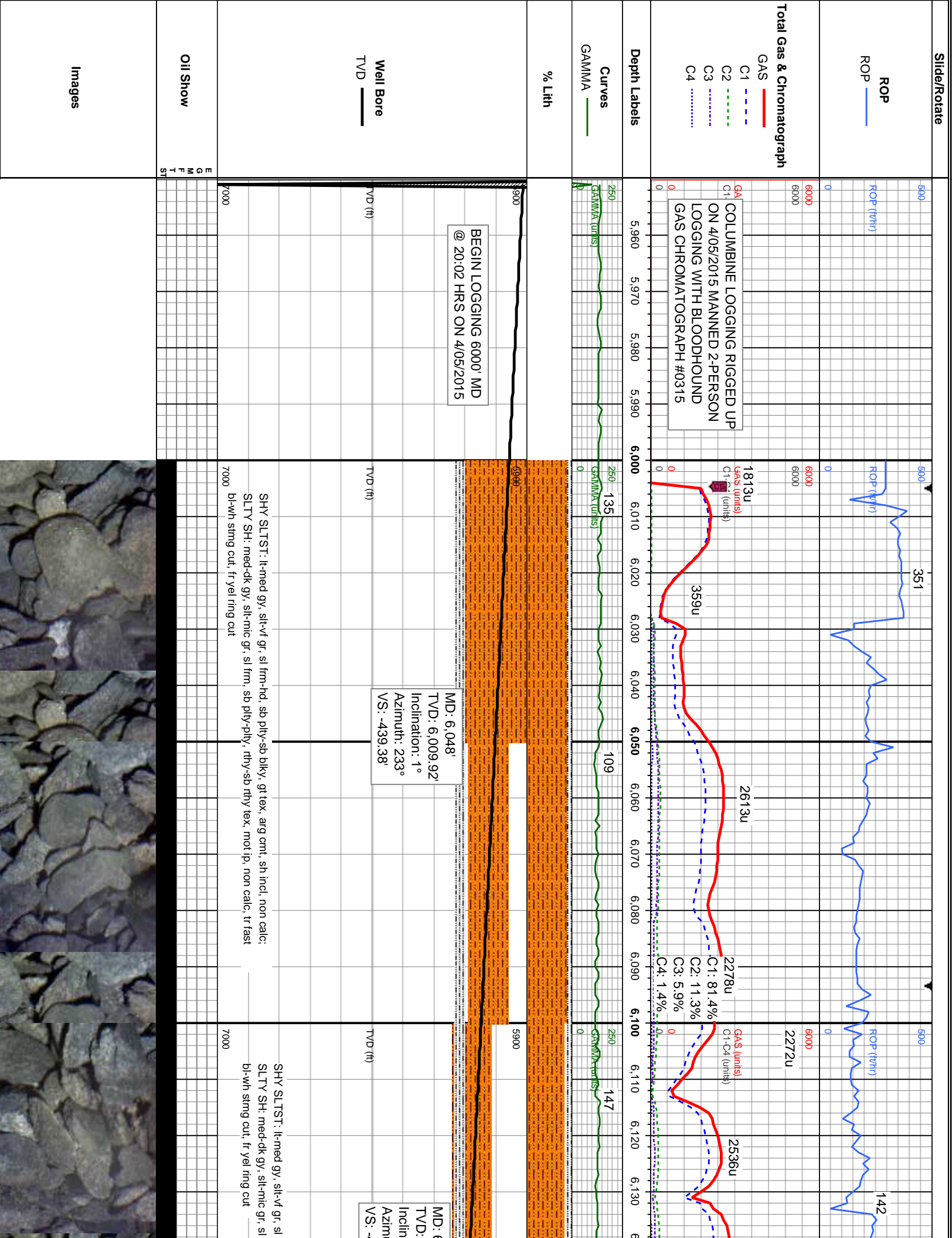
	INTERCRYSTALLINE
	INTEROOLITIC
	MOLDIC
	ORGANIC

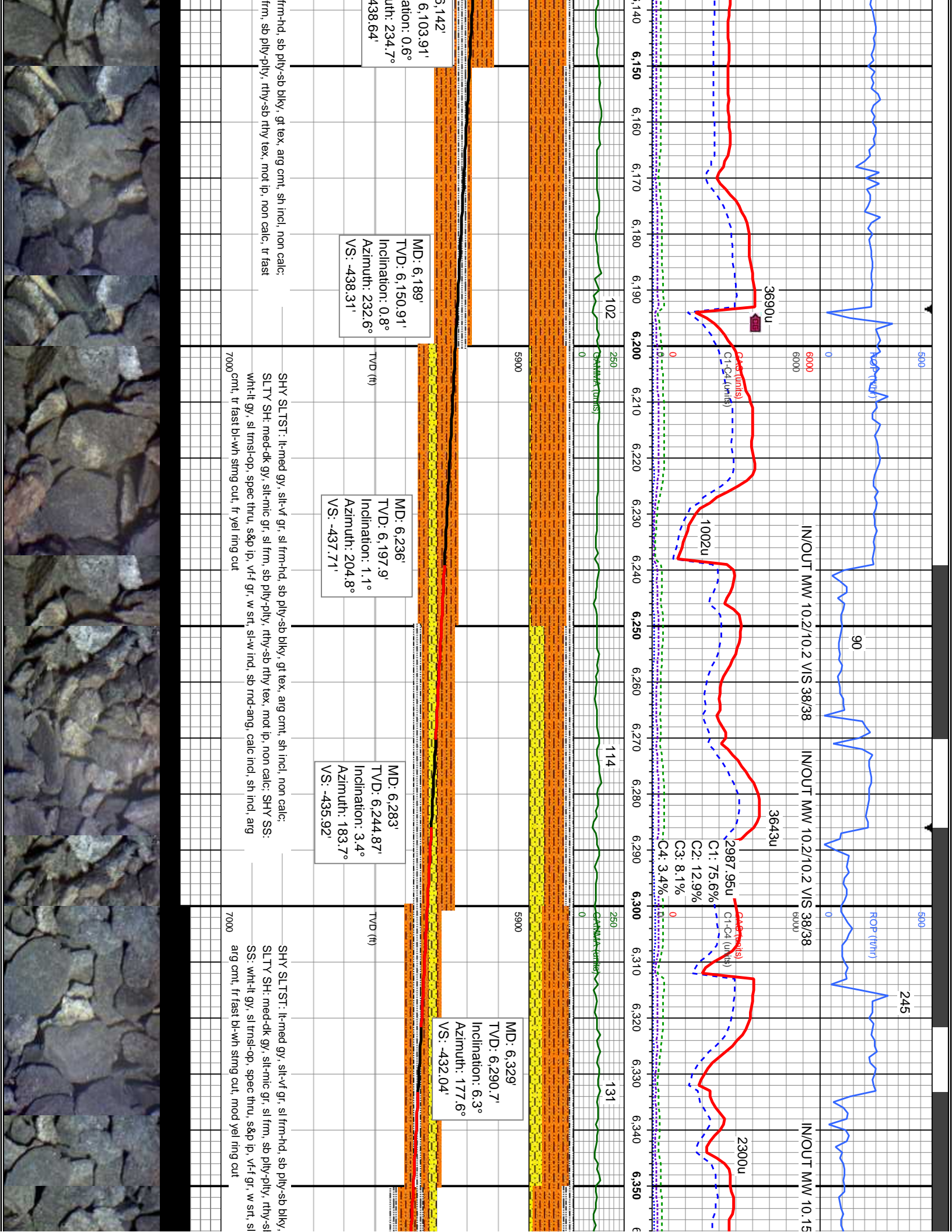
	DOWN TIME GAS
	DOWN TIME GAS (LEFT)
	CORE - LOST
	CORE - RECOVERED
	SIDEWALL CORE (LEFT)
	SIDEWALL CORE (RIGHT)
	SLIDE
	SURVEY

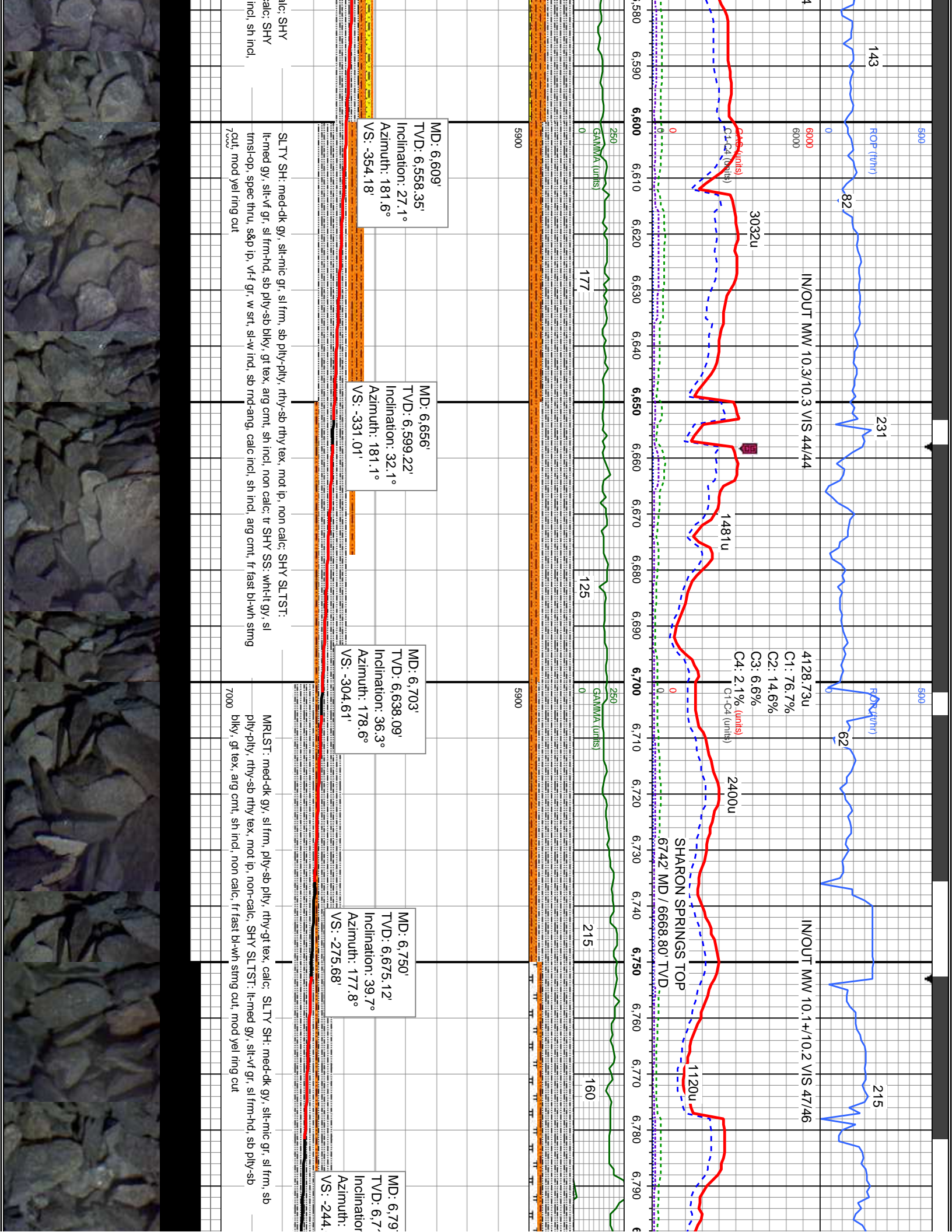
Sorting

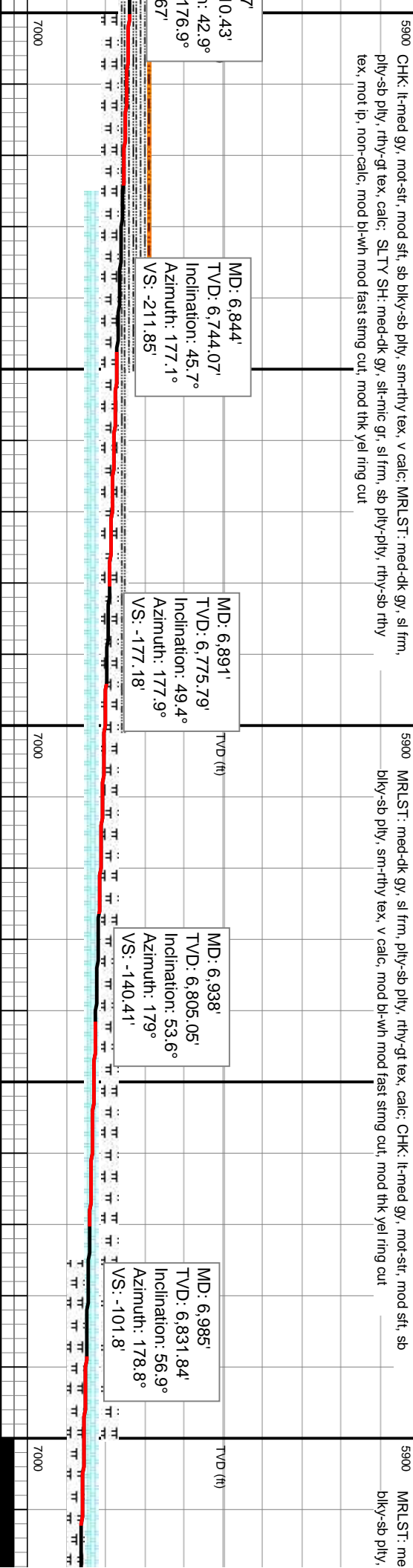
	P POOR
	W WELL

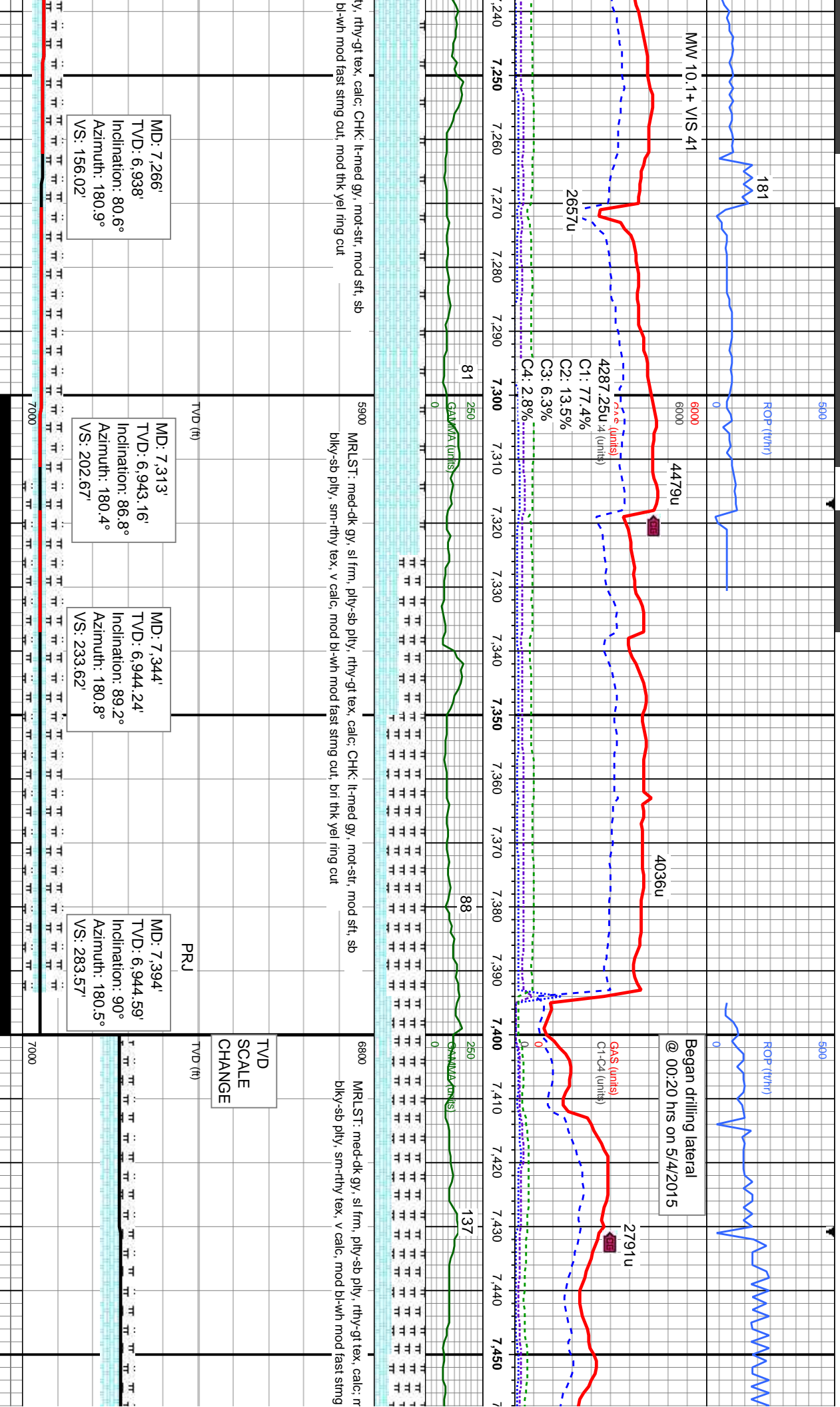


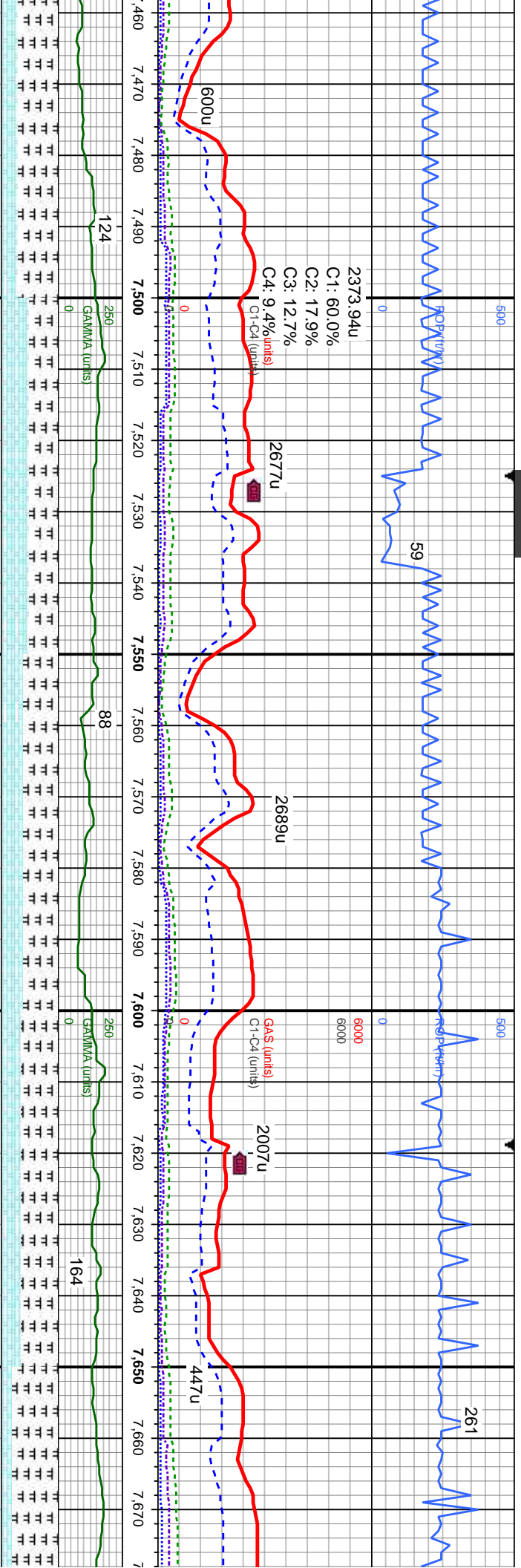












mod CHK: lt-med gy, mot-str, mod sft, sb
cut, bri thk yel ring cut

6800 MR.LST: med-dk gy, sl frm, pty-sb pty, rthy-gt tex, calc, about CHK: lt-med gy, mot-str, mod sft, sb
biky-sb pty, sm-rthy tex, v calc, mod bl-wh mod fast stmg cut, bri thk yel ring cut

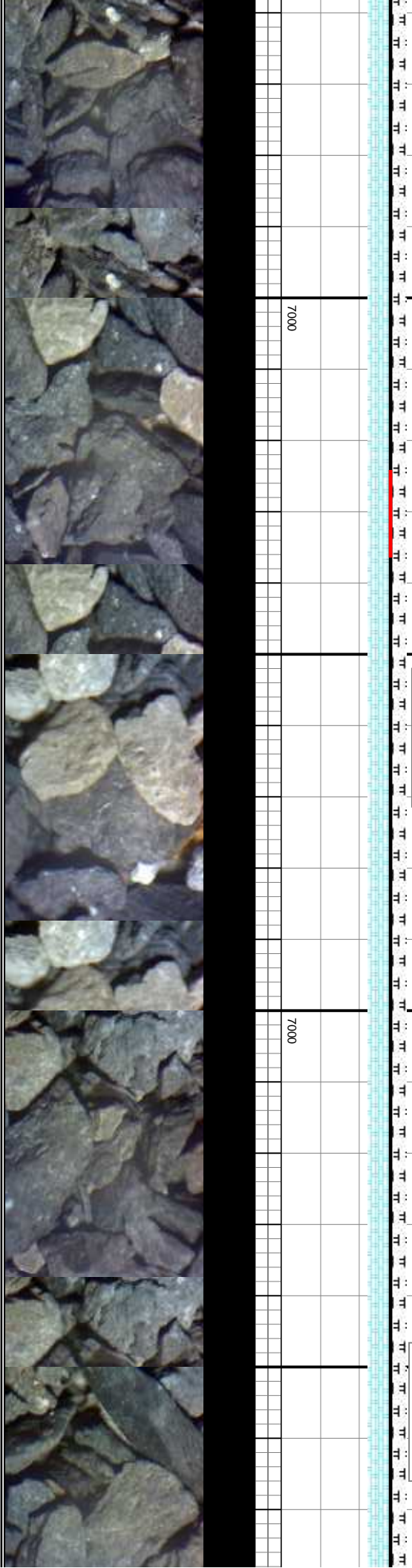
MD: 7,468'
TVD: 6,944.13'
Inclination: 90.7°
Azimuth: 180.9°
VS: 357.5'

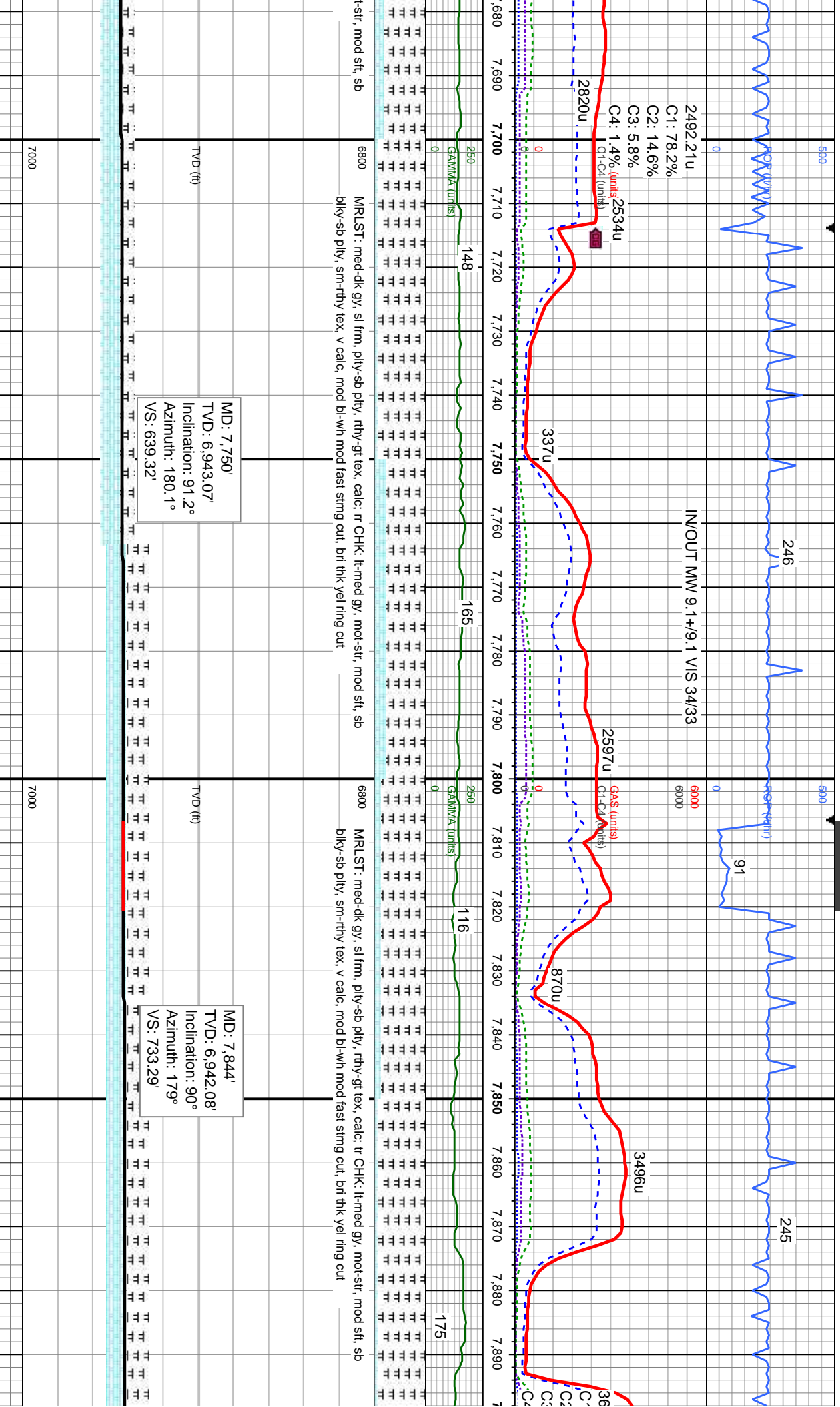
TVD (ft)

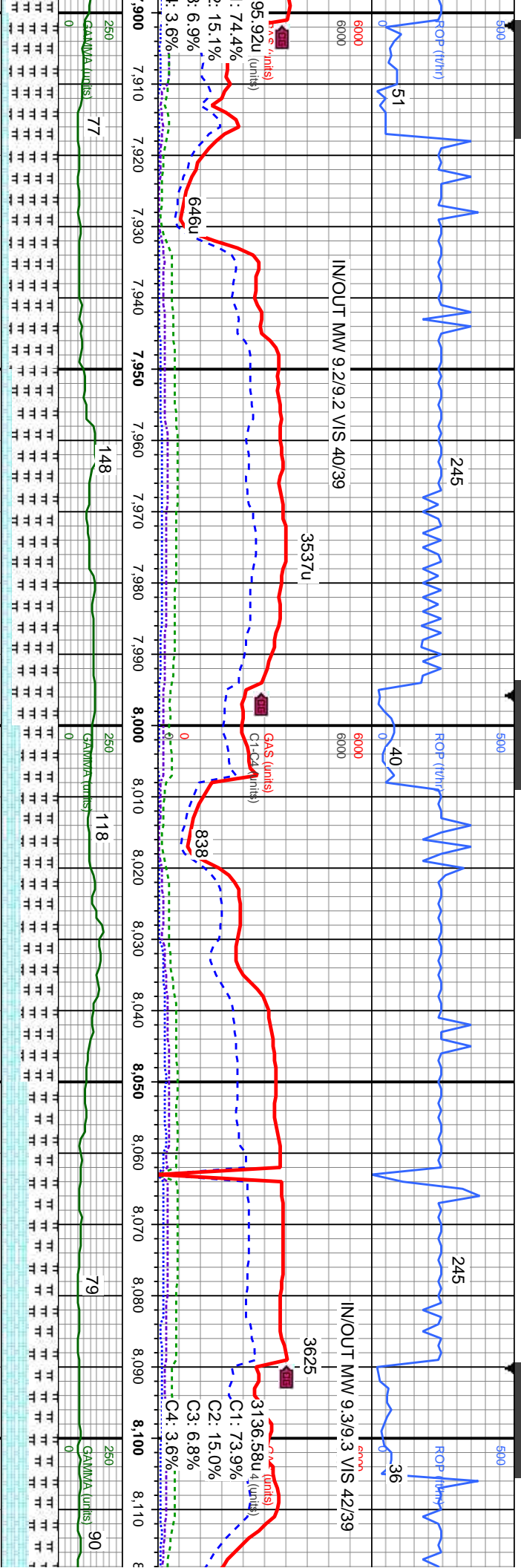
MD: 7,562'
TVD: 6,943.89'
Inclination: 89.6°
Azimuth: 180.2°
VS: 451.42'

TVD (ft)

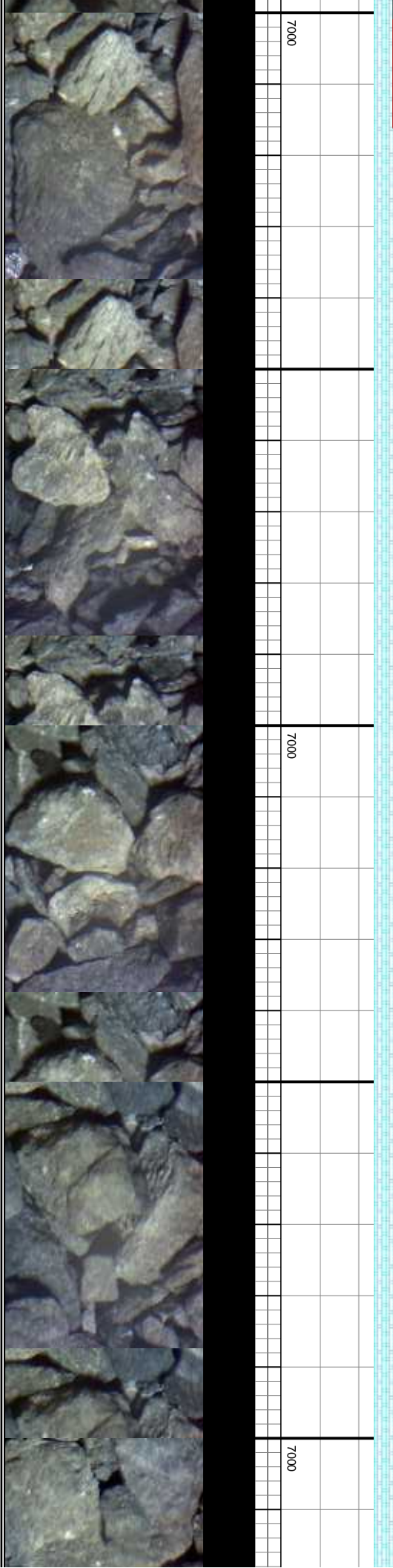
MD: 7,656'
TVD: 6,944.13'
Inclination: 90.1°
Azimuth: 179.7°
VS: 545.37'

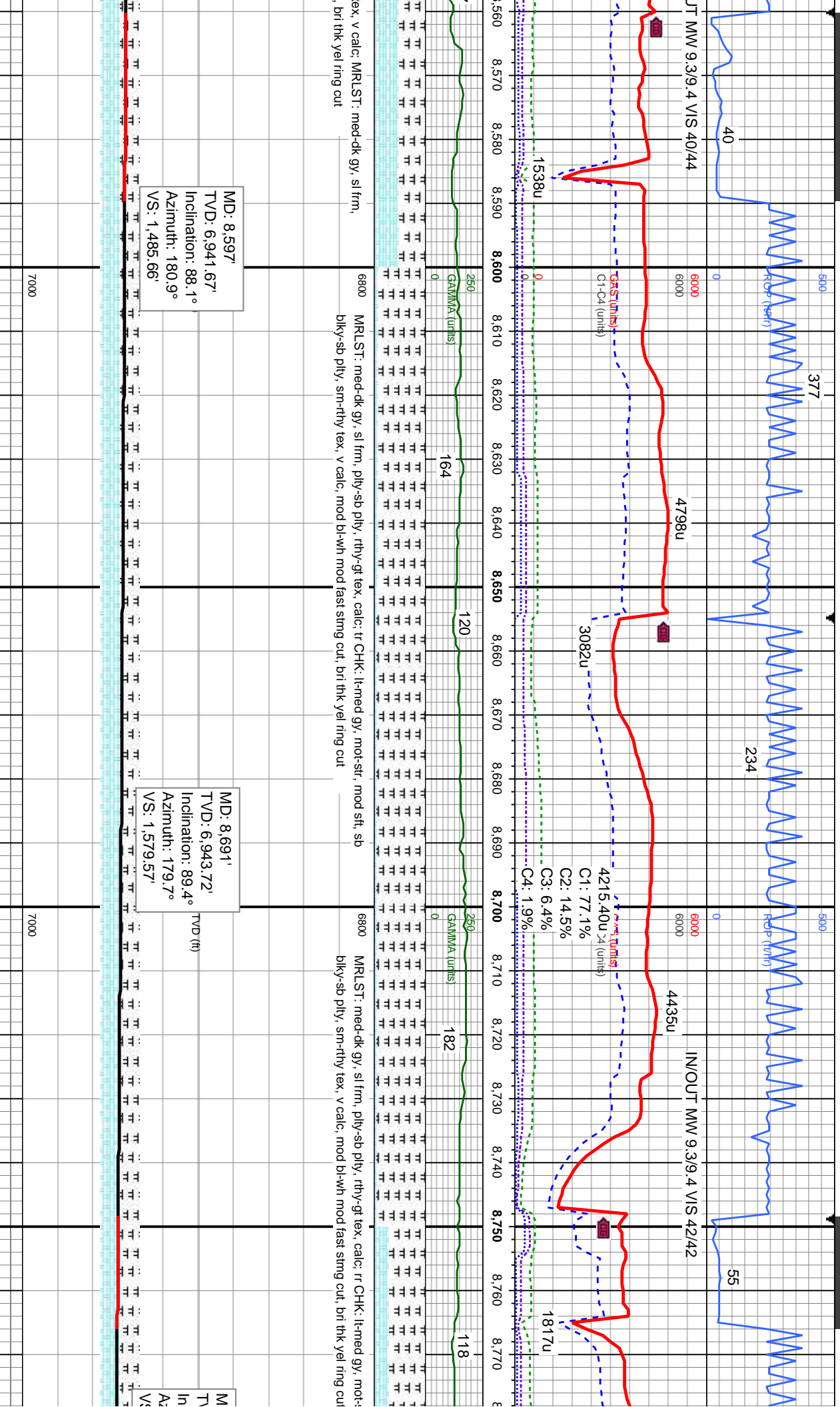


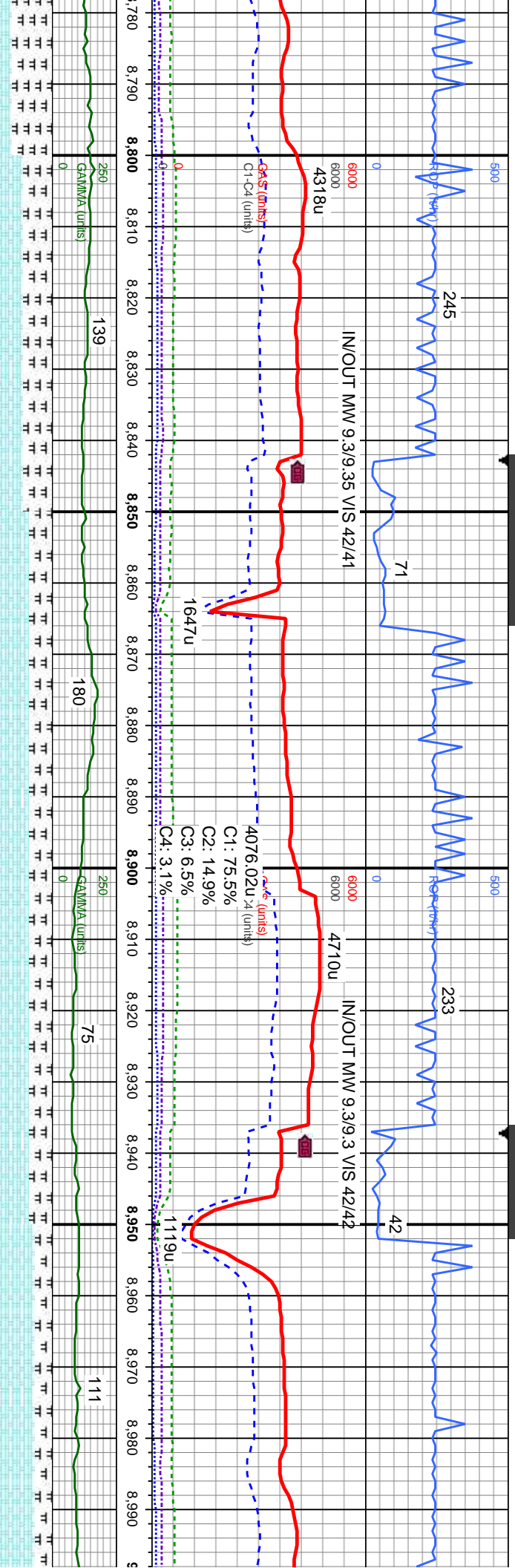




6800	MRLST: med-dk gy, sl frm, pily-sb pily, rthy-gf tex, calc: r CHK: lt-med gy, mot-sir, mod sft, sb	6800	MRLST: med-dk gy, sl frm, pily-sb pily, rthy-gf tex, calc: about CHK: lt-med gy, mot-sir, mod sft, sb	6800	MRLST: r, v
biky-sb pily, sm-rthy tex, v calc, mod bl-wh mod fast sting cut, bri thk yel ring cut		sb biky-sb pily, sm-rthy tex, v calc, mod bl-wh mod fast sting cut, bri thk yel ring cut		biky-sb pl	
TVD (ft)		TVD (ft)		TVD (ft)	
MD: 7,938'		MD: 8,033'			
TVD: 6,941.26'		TVD: 6,939.94'			
Inclination: 91°		Inclination: 90.6°			
Azimuth: 179°		Azimuth: 179.5°			
VS: 827.27'		VS: 922.25'			







str, mod sft, sb
D: 8,785'
ID: 6,946.43'
Inclination: 87.3°
Azimuth: 179.5°
VS: 1,673.5'

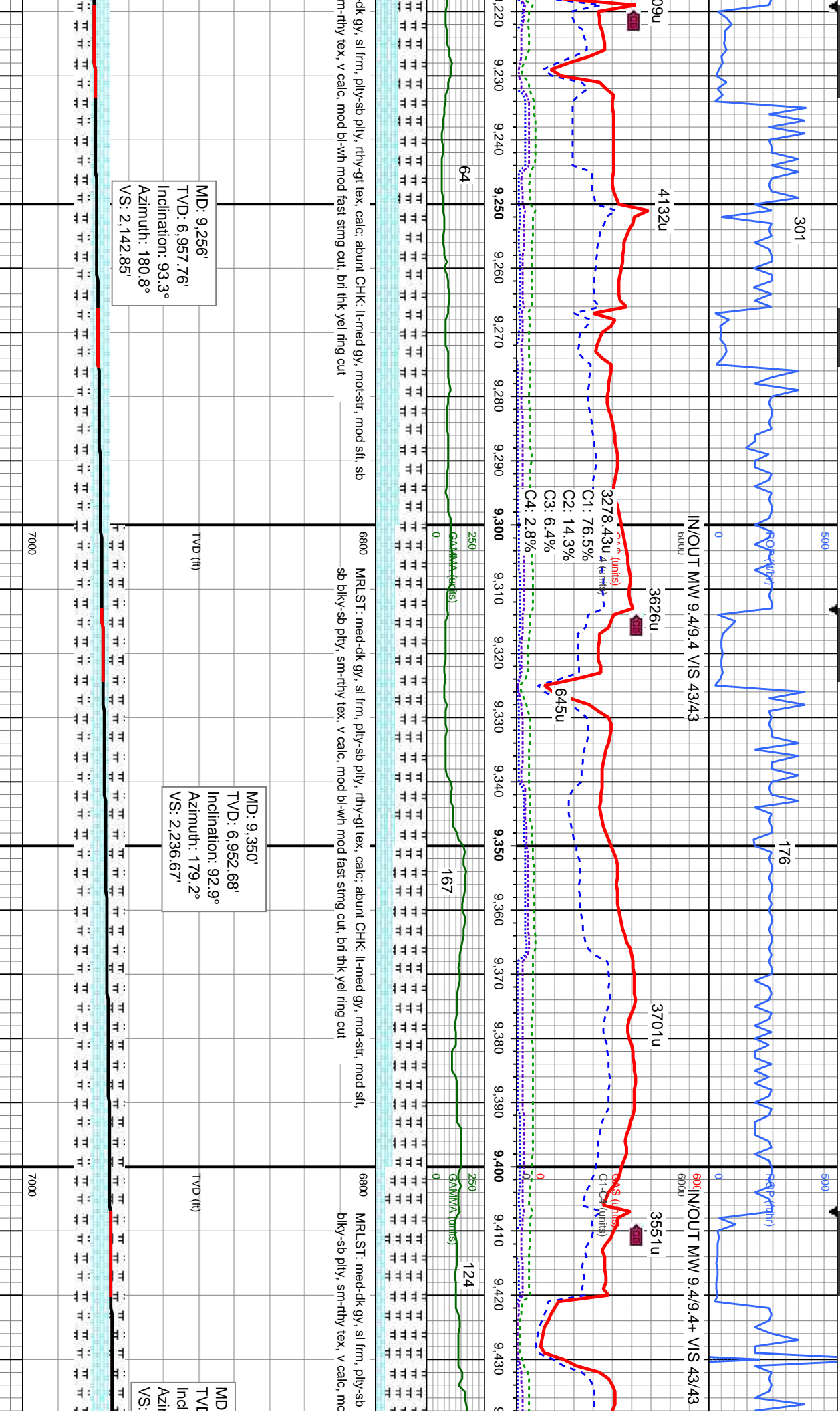
6800 CH: lt-med gy, mot-sft, mod sft, sb blk-y-sb pty, sm-rthy tex, v calc, about MRLST: med-dk gy, sl
frm, pty-sb pty, rthy-gt tex, calc, mod bl-wh mod fast sting cut, brt thk yel ring cut
TVD (ft)
7000

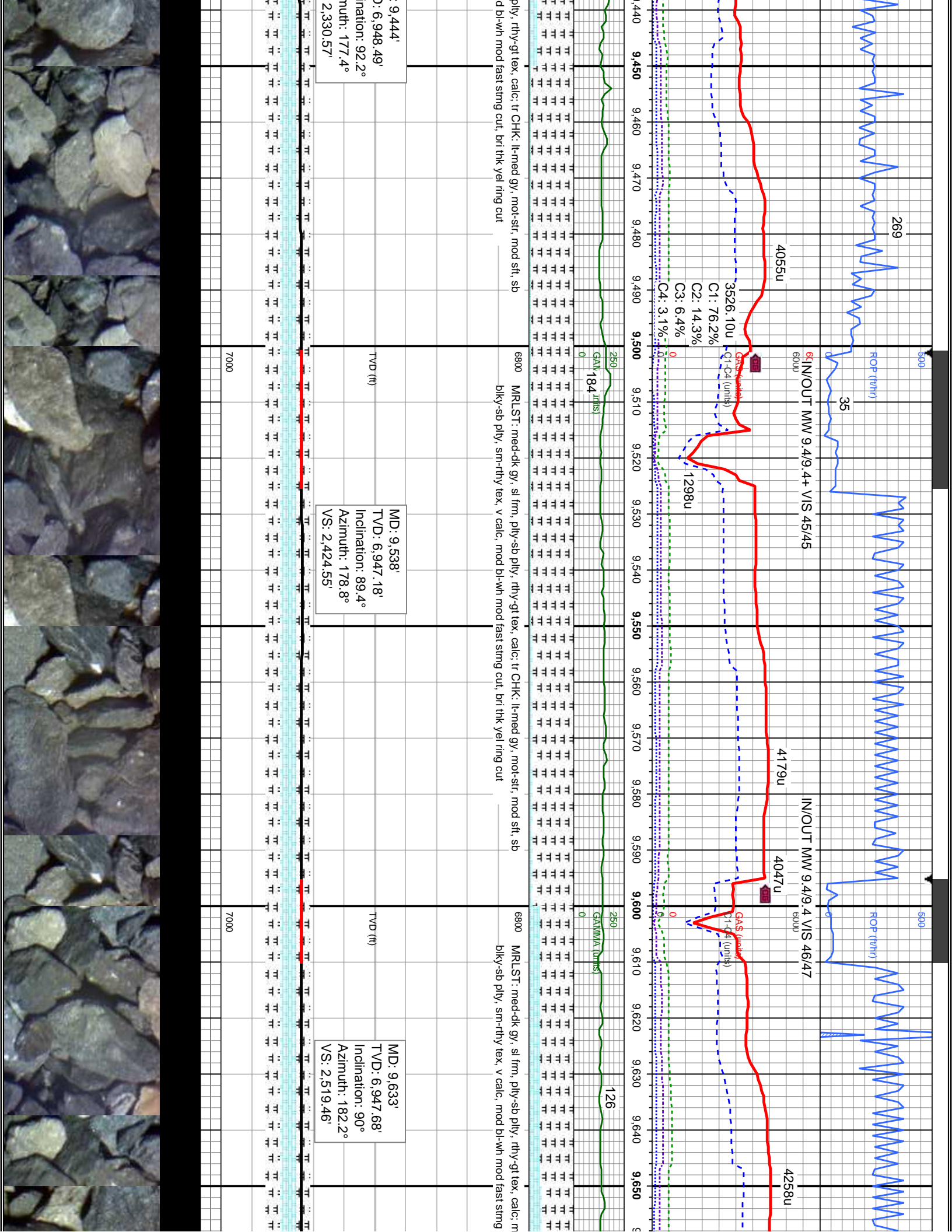
MD: 8,880'
TVD: 6,951.73'
Inclination: 86.3°
Azimuth: 181.3°
VS: 1,768.27'

6800 CH: lt-med gy, mot-sft, mod sft, sb blk-y-sb pty, sm-rthy tex, v calc, about MRLST: med-dk gy, sl
sl frm, pty-sb pty, rthy-gt tex, calc, mod bl-wh mod fast sting cut, brt thk yel ring cut
TVD (ft)
7000

MD: 8,974'
TVD: 6,957.14'
Inclination: 87.1°
Azimuth: 182.5°
VS: 1,861.92'







DEPTH
5/5/2015

698

5900

6000

6000

6000

6000

6000

6000

6000

6000

IN/OUT MW 9.4/9.4+ VIS 46/46

3855u

3785.59u

C1: 75.5%

C2: 14.5%

C3: 6.5%

C4: 3.5%

4175u

4115u

3996u

C1-C4 (units)

GAMMA (units)

137

GAMMA (units)

137

mod CHK: lt-med gy, mot-str, mod sft, sb
cut, bri thk yel ring cut

MRLST: med-dk gy, sl frm, pily-sb pily, rthy-gt tex, calc; about CHK: lt-med gy, mot-str, mod sft,
sb bily-sb pily, sm-rthy tex, v calc, mod bl-wh mod fast sting cut, bri thk yel ring cut

MRLST: med-dk gy, sl frm, pily-sb pily, rthy-gt tex, calc; mod CHK: lt-med gy, mot-str, mod sft,
sb bily-sb pily, sm-rthy tex, v calc, mod bl-wh mod fast sting cut, bri thk yel ring cut

TVD (ft)

MD: 9,727'
TVD: 6,947.68'
Inclination: 90°
Azimuth: 183°
VS: 2,613.18'

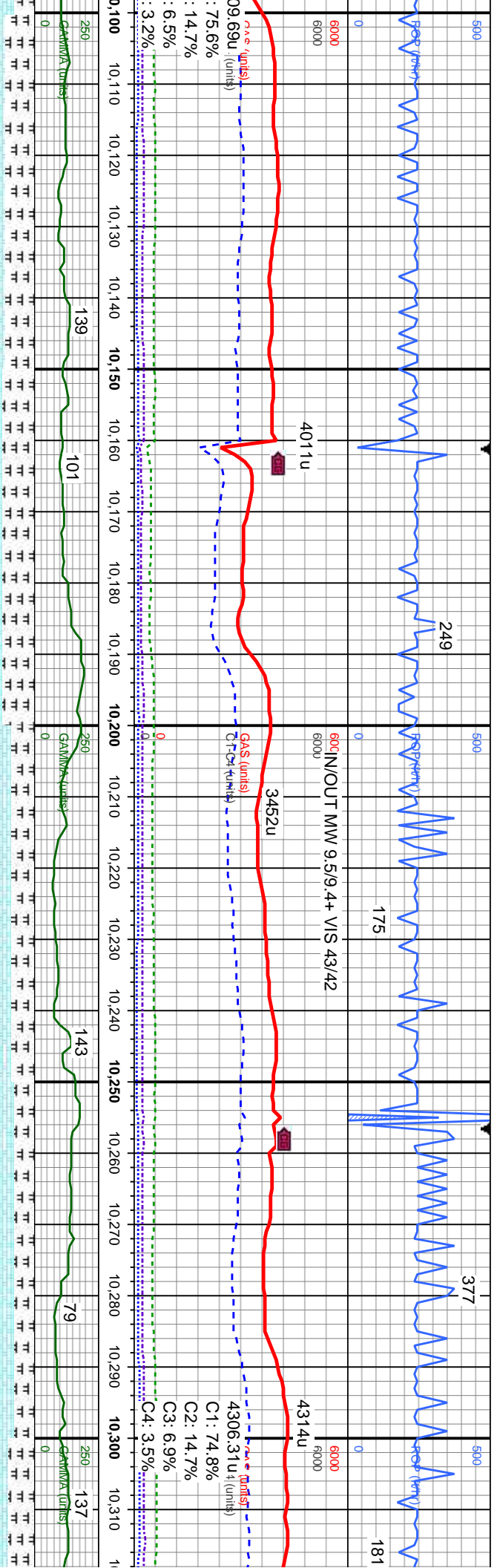
TVD (ft)

MD: 9,821'
TVD: 6,947.76'
Inclination: 89.9°
Azimuth: 182.2°
VS: 2,706.9'

7000

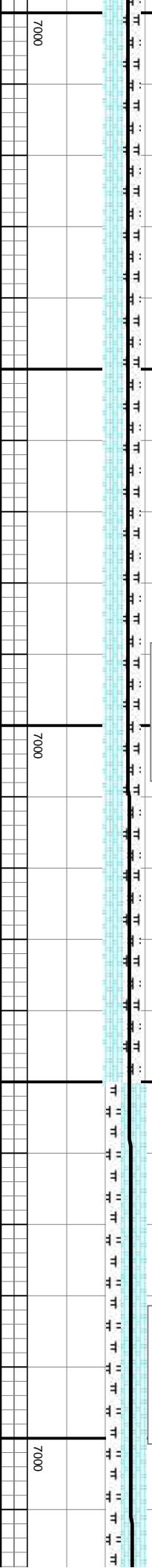
7000

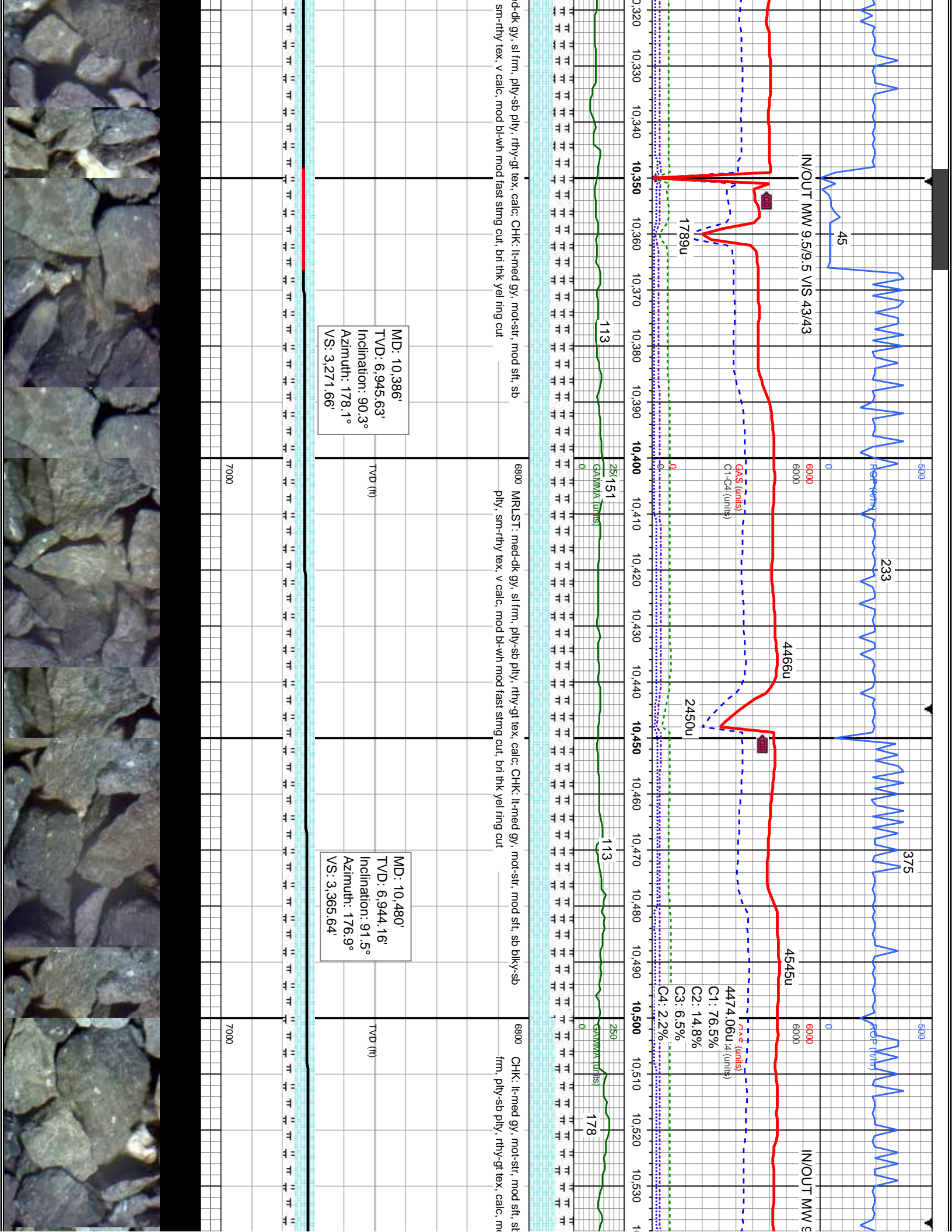


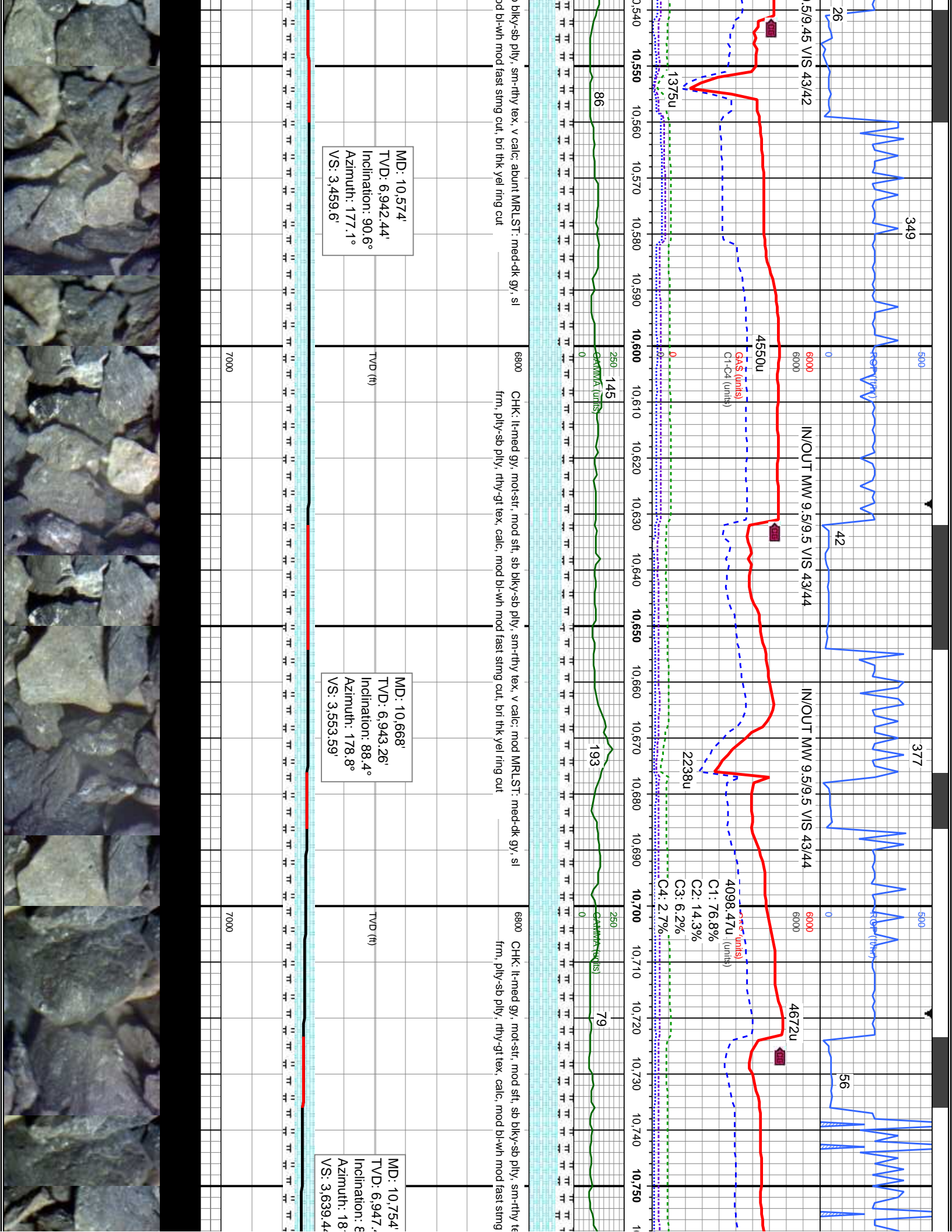


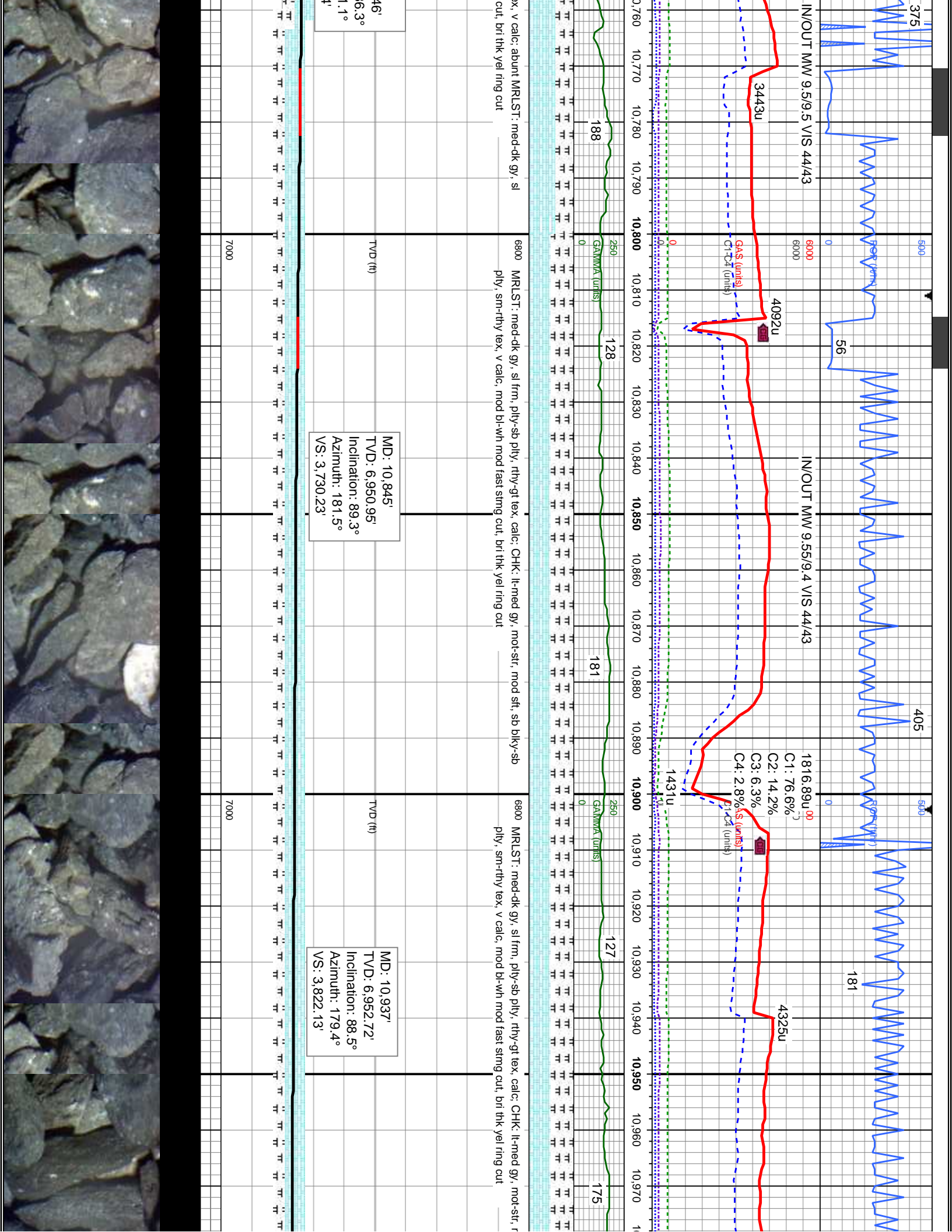
MRLST: me
biky-sb pity;

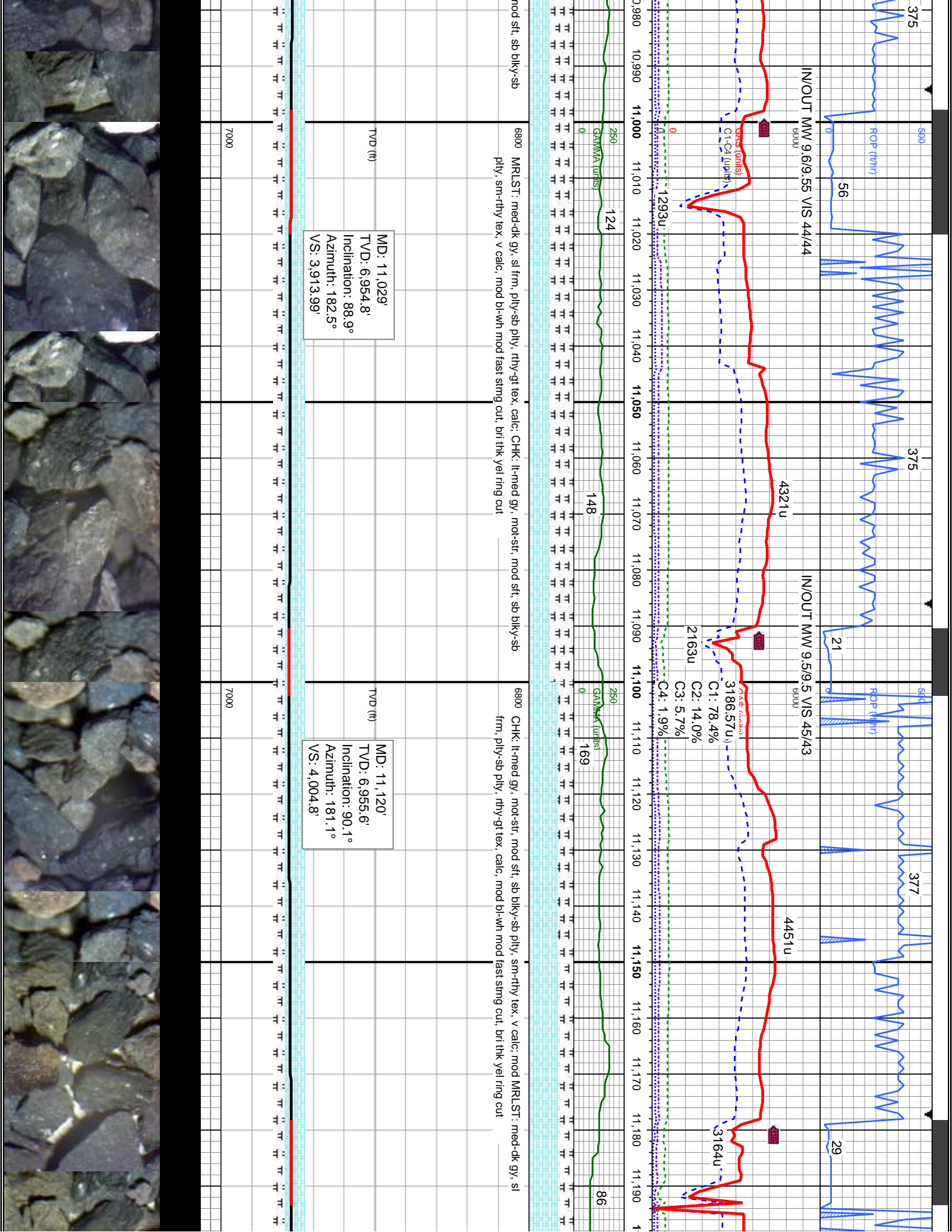
MD: 10,291'	TVD (ft)
TVD: 6,946.8'	
Inclination: 91.1°	
Azimuth: 178.1°	
VS: 3,176.67'	

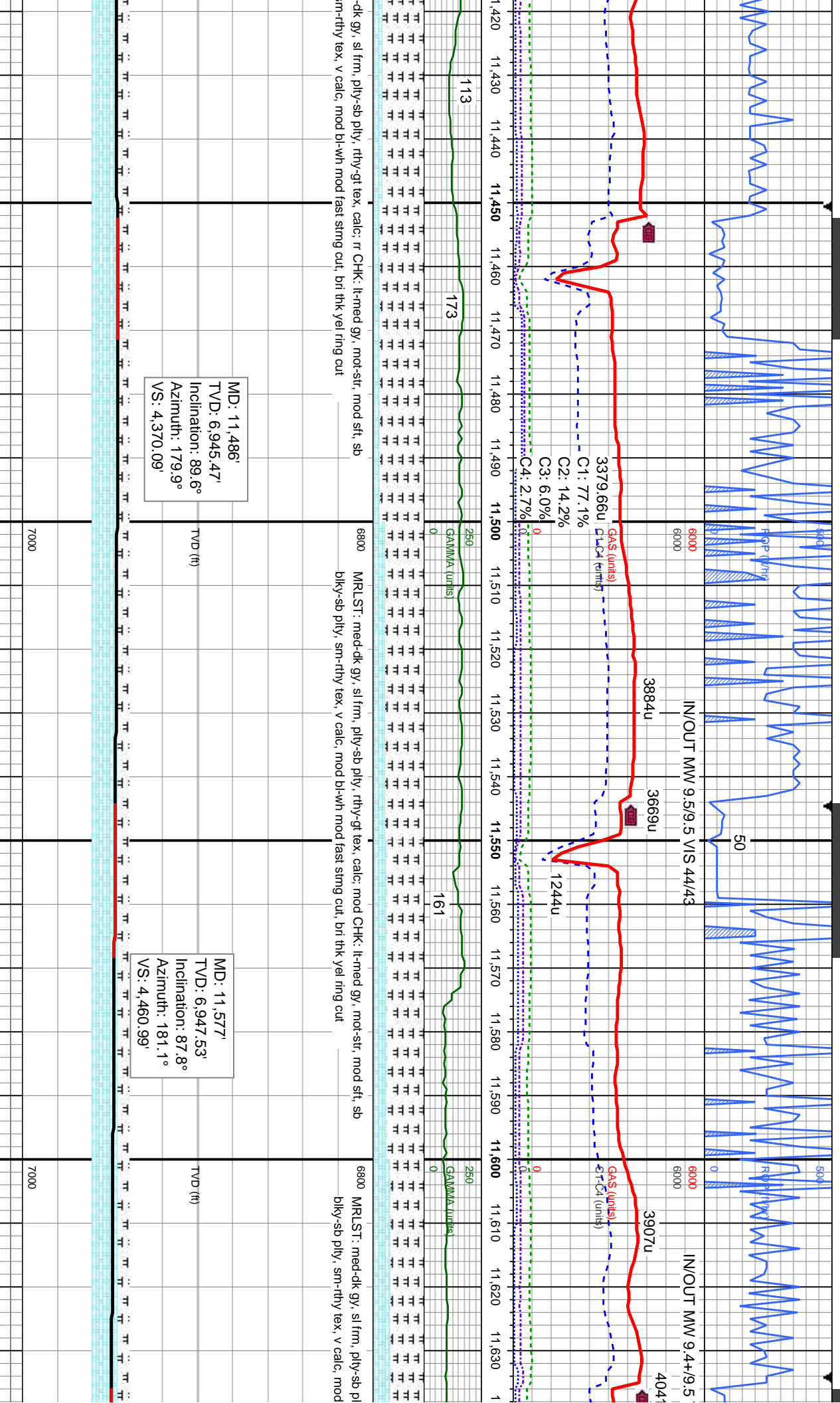


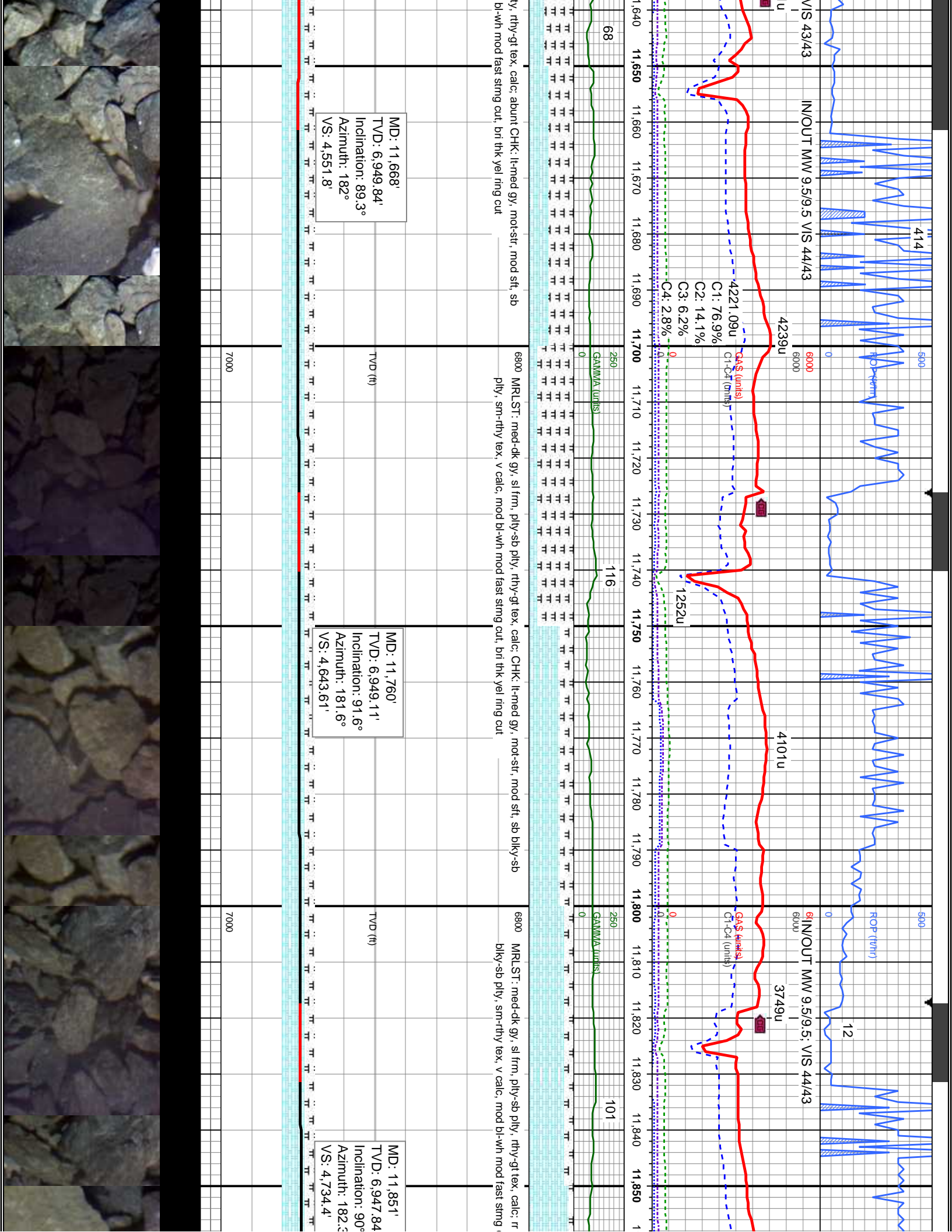


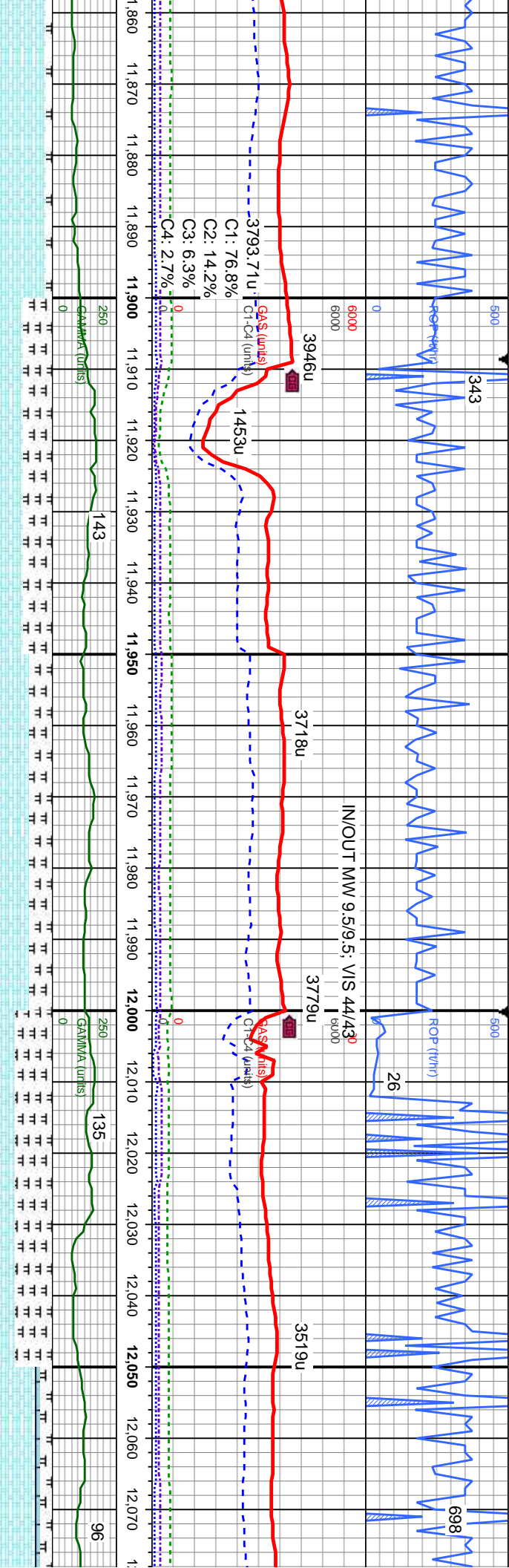












CHK: lt-med gy, mot-str, mod sft, sb cut, bri thk yel ring cut

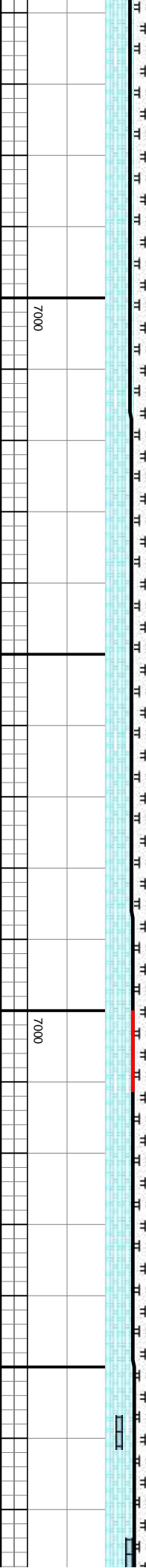
6800 CHK: lt-med gy, mot-str, mod sft, sb bly-sb ply, sm-rthy tex, v calc, about MRLST: med-dk gy, sl frm, ply-sb ply, rthy-gt tex, calc: mod bl-wh mod fast string cut, bri thk yel ring cut

6800 MRLST: med-dk gy, sl frm, ply-sb ply, rthy-gt tex, calc: about CHK: lt-med gy, mot-str, mod sft, sb bly-sb ply, sm-rthy tex, v calc, mod bl-wh mod fast string cut, bri thk yel ring cut

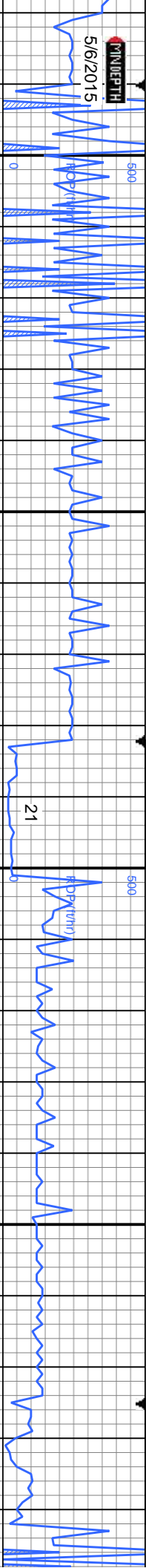
CHK: gy brn, gy-dk gy, mot ip arg tex, mod sft-mod frm, calc MRLST: med-dk gy, sl frm, ply rthy-sm tex, mic xln, frm-hrd v bl-wh mod fast string cut, bri th

MD: 11,943'
TVD: 6,947.04'
Inclination: 91°
Azimuth: 181.1°
VS: 4,826.22'

MD: 12,034'
TVD: 6,946.01'
Inclination: 90.3°
Azimuth: 180.4°
VS: 4,917.12'



5/6/2015



3857u

6000

3660u

3728u

21

IN/OUT MW 9.3/9.2+; VIS 47/48

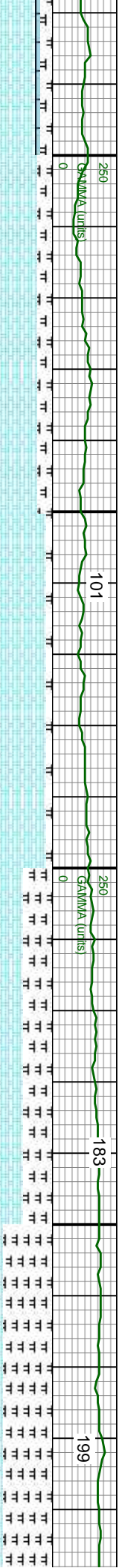
3649u

3273.48u₄ (units)
C1: 75.6%
C2: 14.5%
C3: 6.6%
C4: 3.3%

2748u

3273.48u₄ (units)
C1: 75.6%
C2: 14.5%
C3: 6.6%
C4: 3.3%

1692u

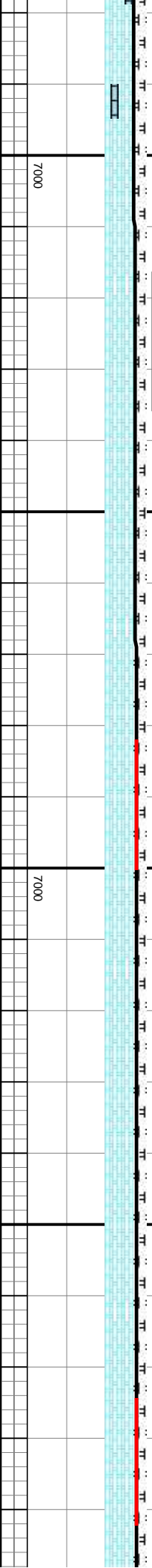


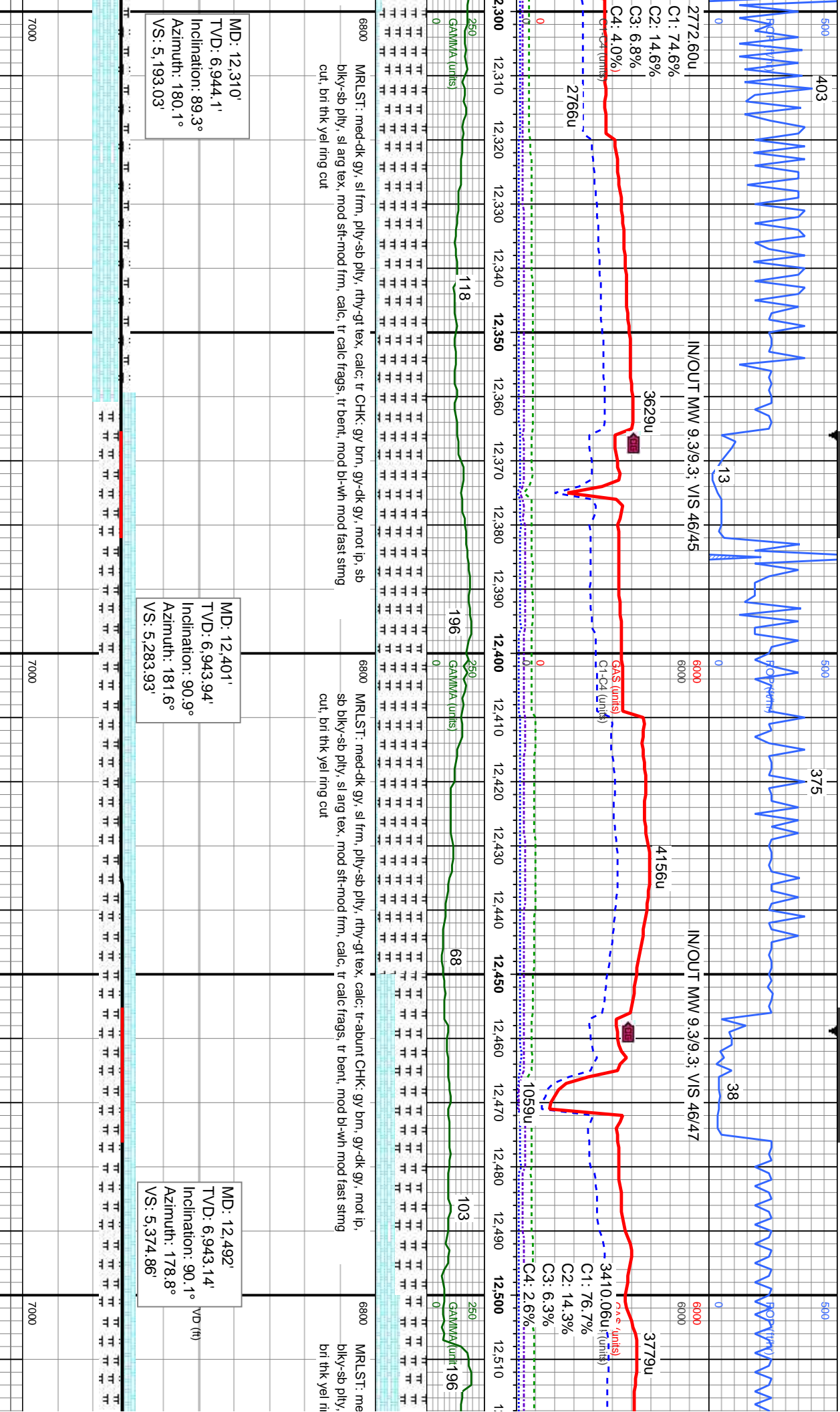
CHK: lt-med gy, mod sft, sb blk-y-sb ply, sm-rthy tex, v calc; tr-r MRLST: med-dk gy, sl frm, ply-sb ply, rthy-gt tex, calc; tr LMST, mod bl-wh mod fast string cut, bri thk yel ring cut

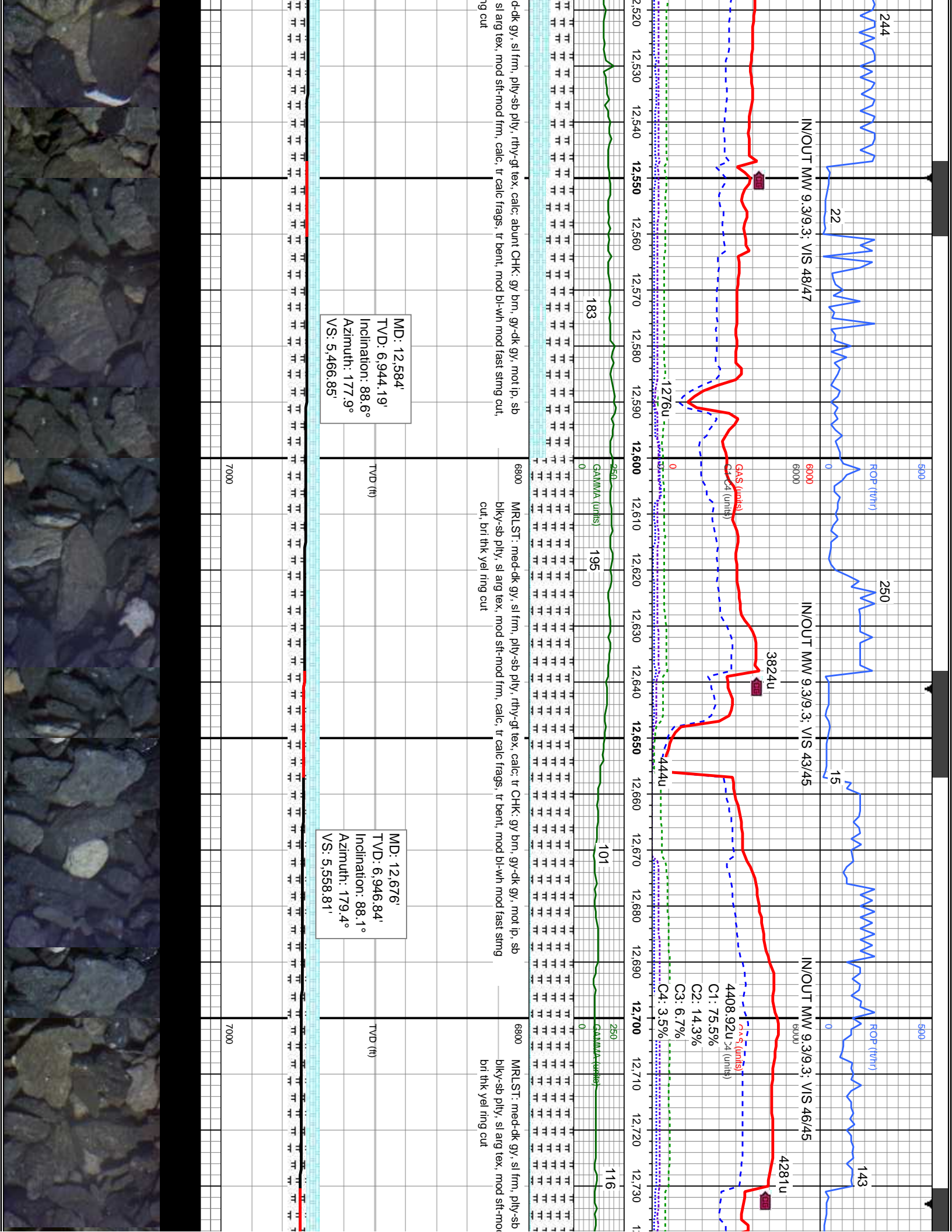
MRLST: med-dk gy, sl frm, ply-sb ply, rthy-gt tex, calc; tr-abnt CHK: gy brn, gy-dk gy, mod lp, sb blk-y-sb ply, sl arg tex, mod sft-mod frm, calc; tr calc frags, tr bent, mod bl-wh mod fast string cut, bri thk yel ring cut

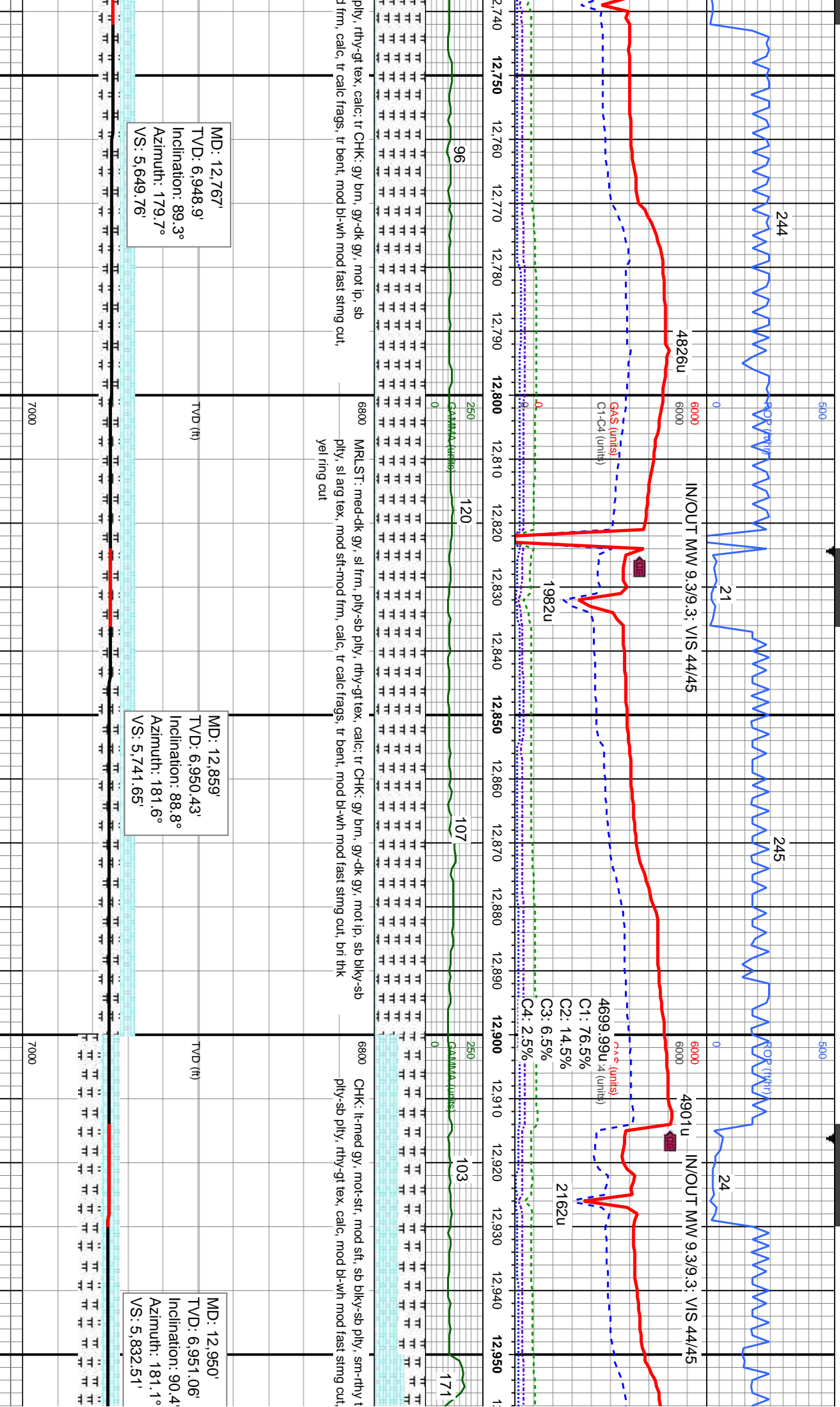
MD: 12,126'
TVD: 6,944.88'
Inclination: 91.1°
Azimuth: 179.2°
VS: 5,009.08'

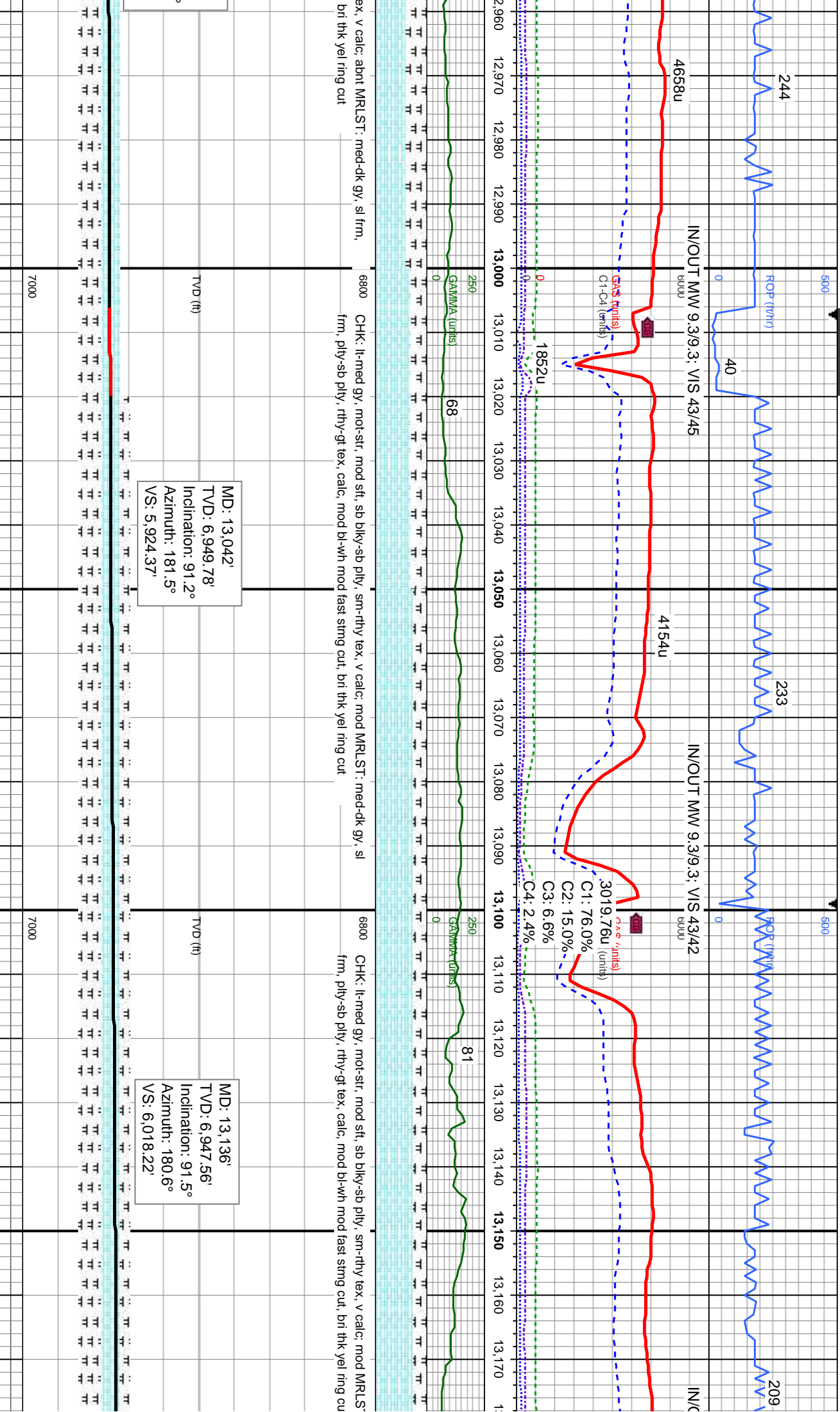
MD: 12,217'
TVD: 6,943.77'
Inclination: 90.3°
Azimuth: 178.8°
VS: 5,100.06'

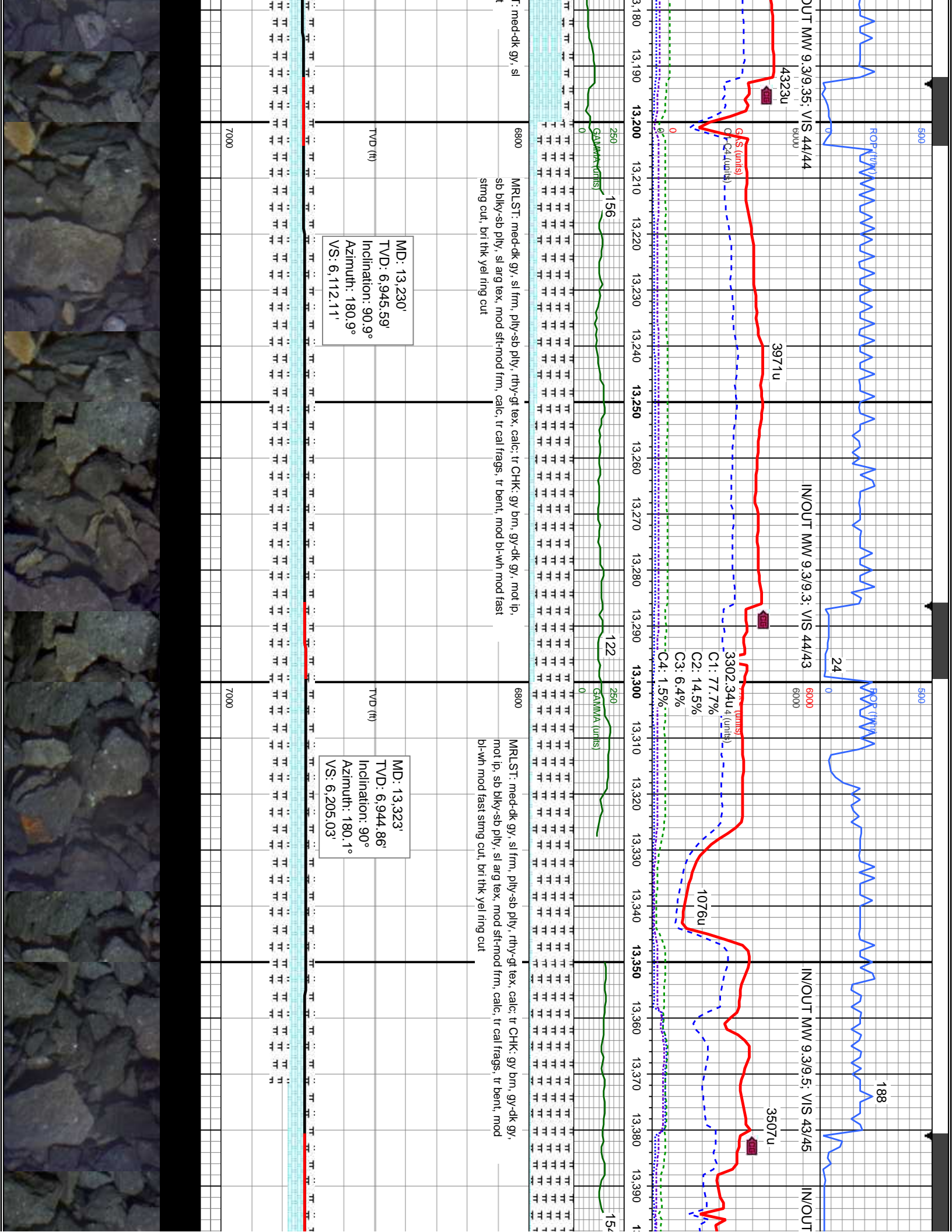


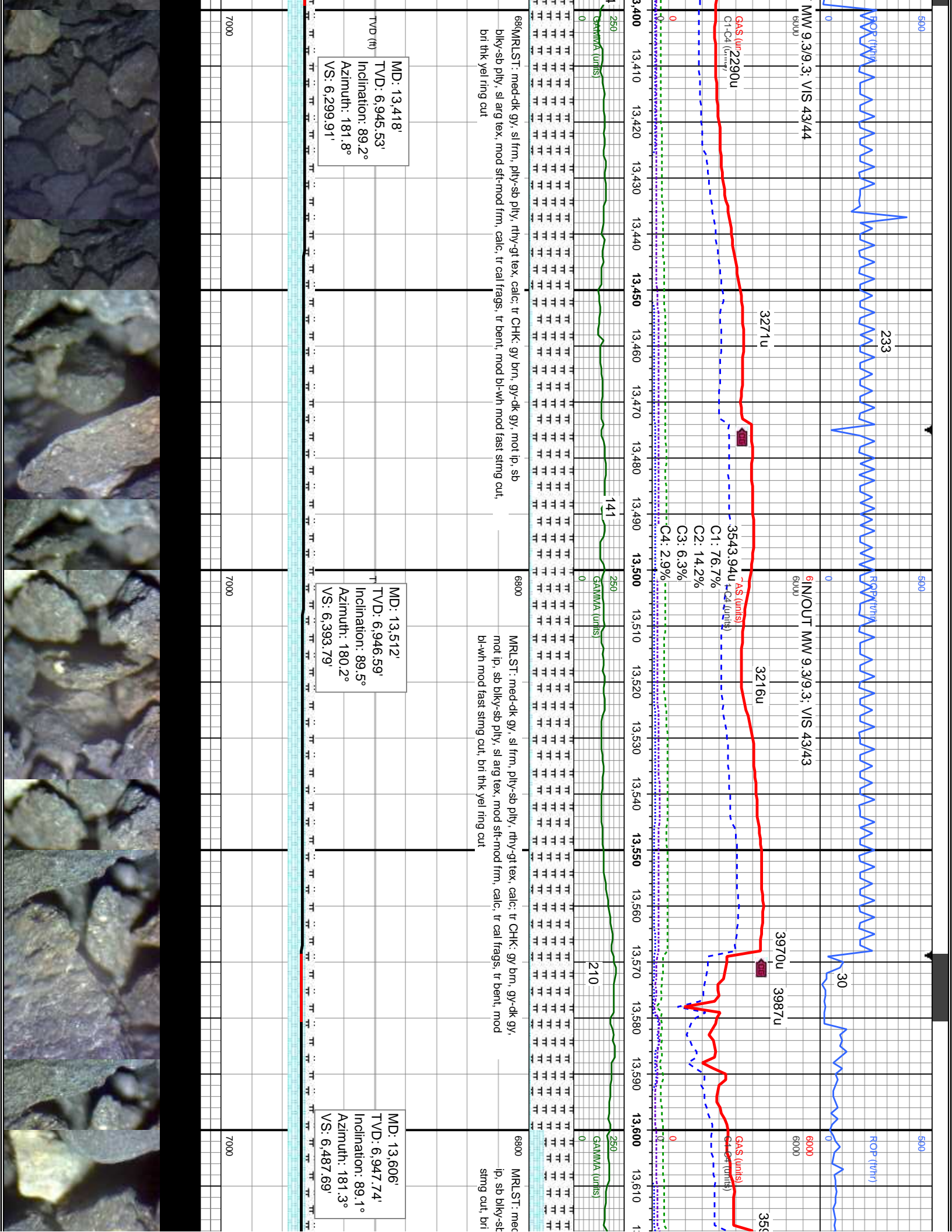


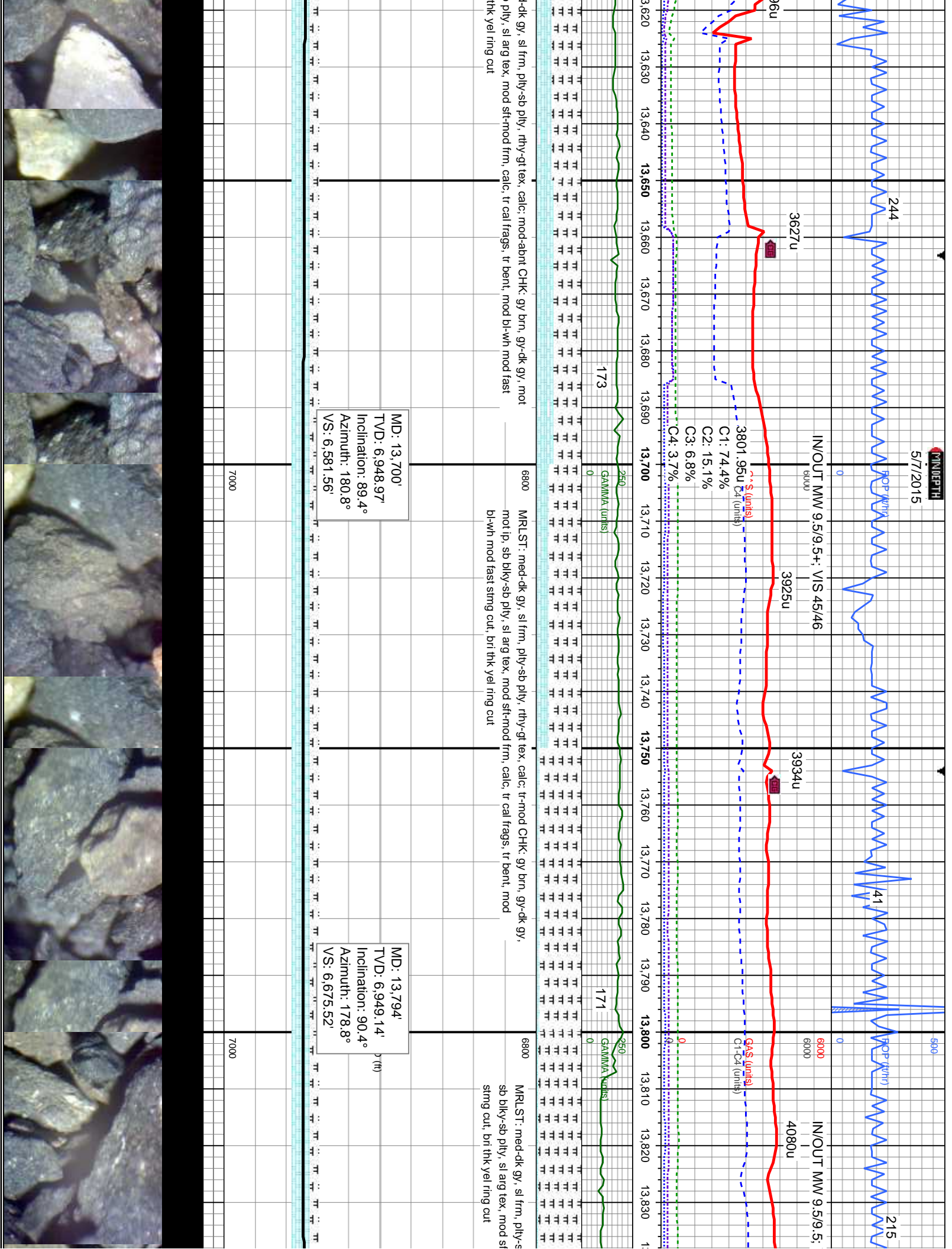


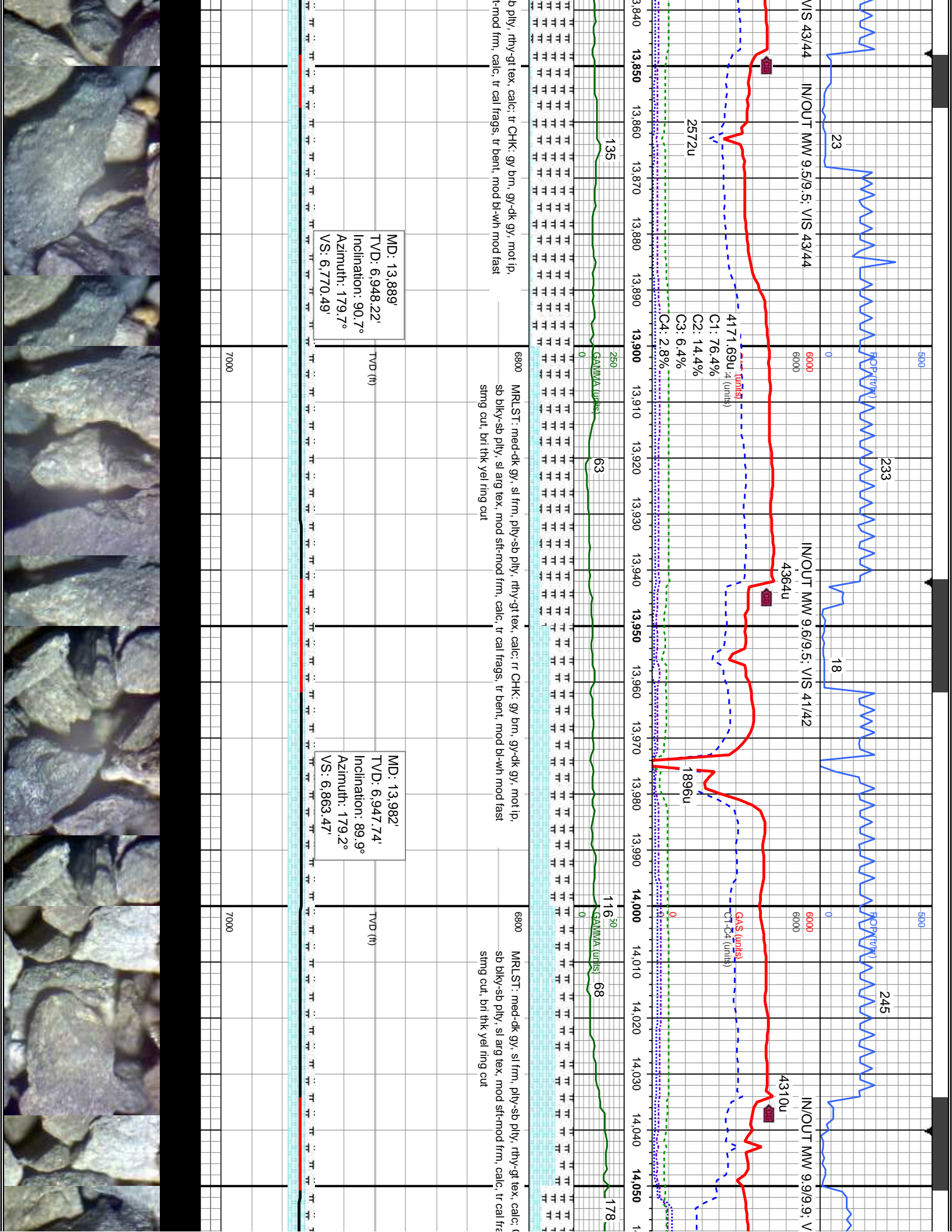


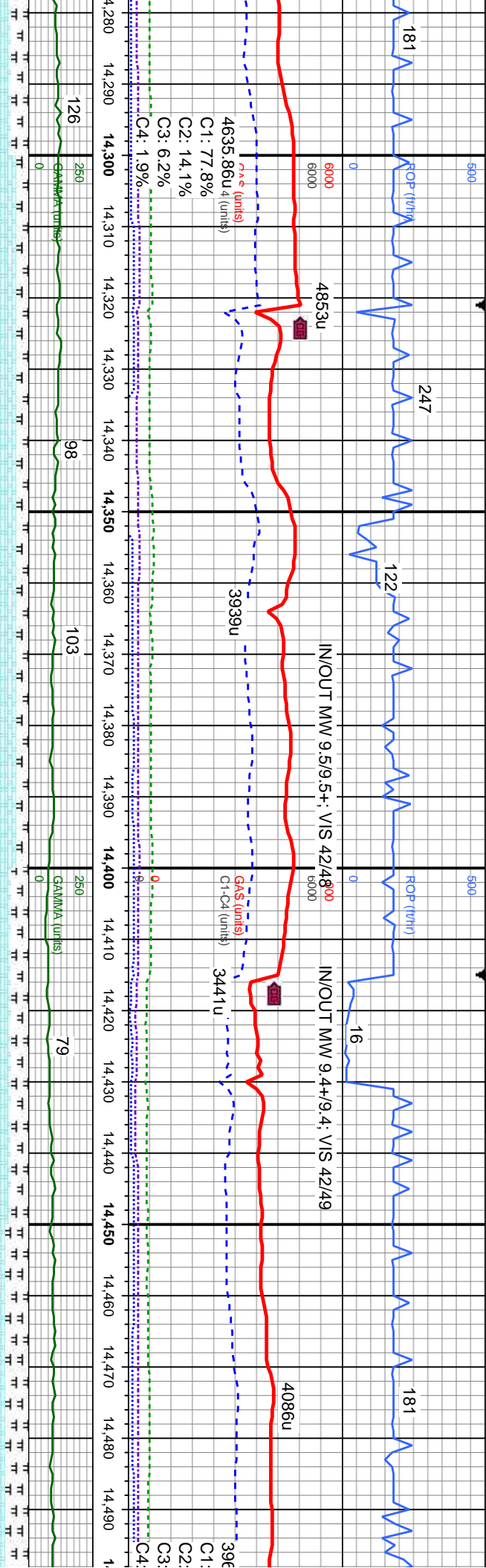












mot lp, sb
d fast sting cut,

CHK: lt-med gy, mot-str, mod sft, sb bly-sb ply, sm-rthy tex, v calc, r MRLST: med-dk gy, sl
ftm, ply-sb ply, rthy-gt tex, calc, mod bl-wh mod fast sting cut, bri thk yel ring cut

CHK: lt-med gy, mot-str, mod sft, sb bly-sb ply, sm-rthy tex, v calc, mod MRLST: med-dk gy, sl
ftm, ply-sb ply, rthy-gt tex, calc, mod bl-wh mod fast sting cut, bri thk yel ring cut

TVD (ft)

MD: 14,358'
TVD: 6,950.76'
Inclination: 90.6°
Azimuth: 179.9°
VS: 7,239.23'

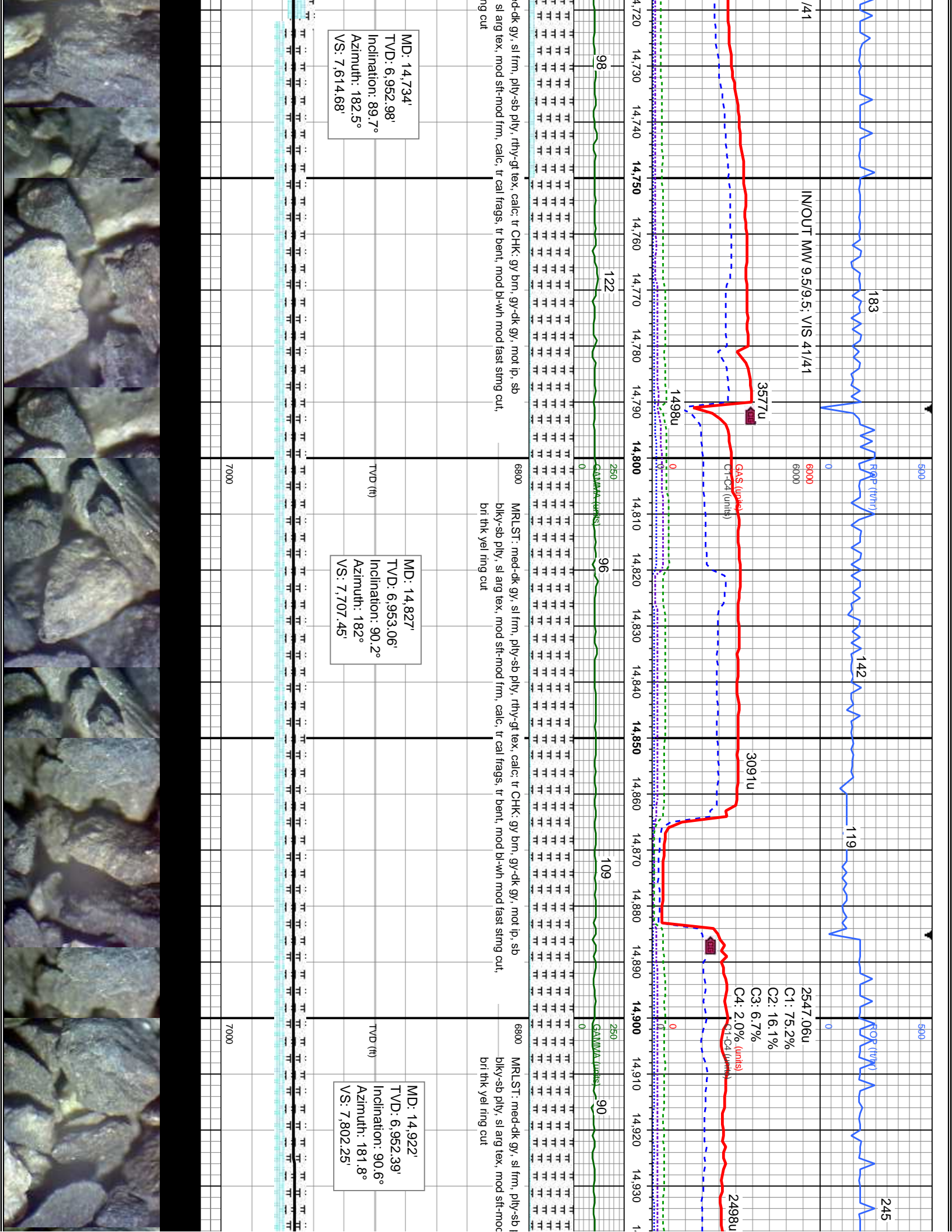
TVD (ft)

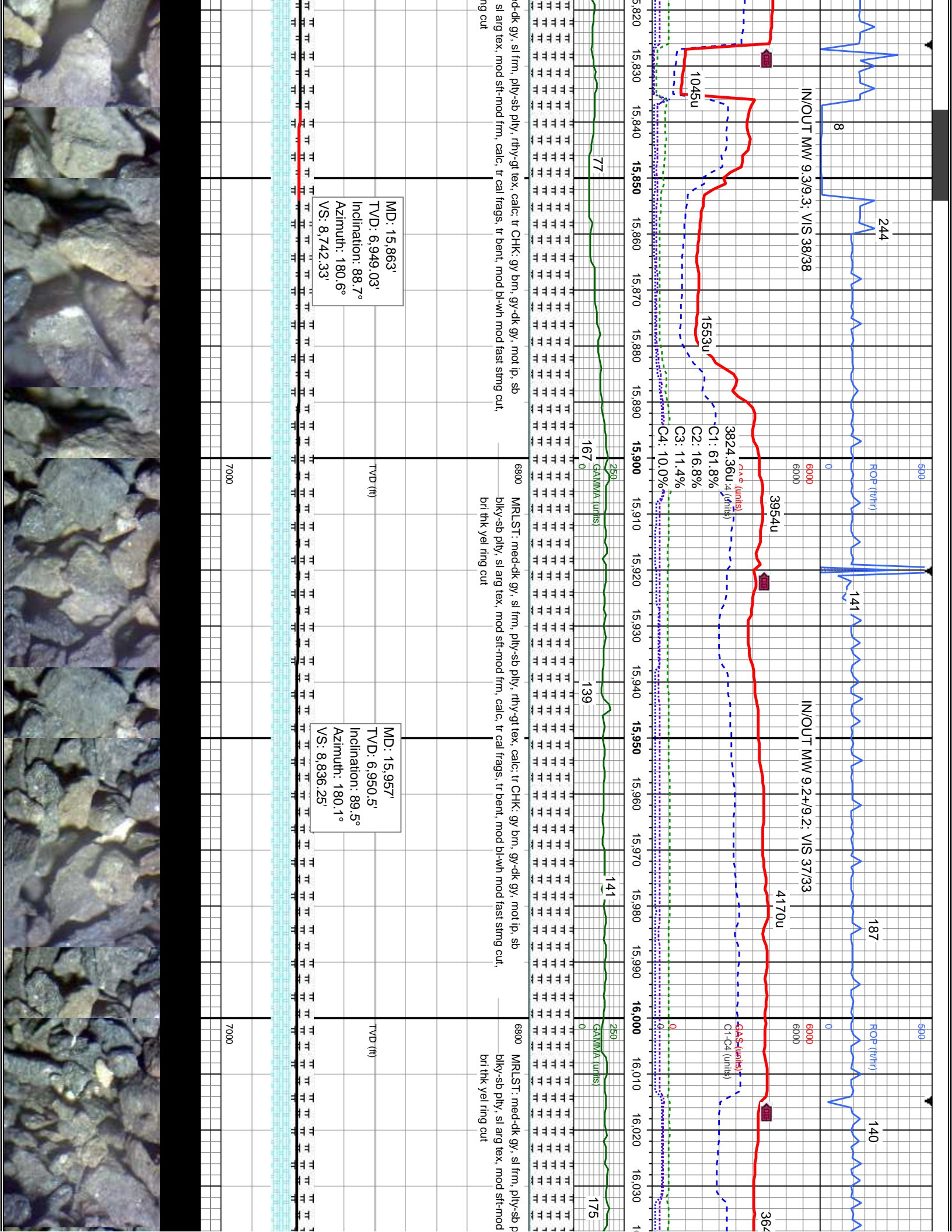
MD: 14,452'
TVD: 6,950.02'
Inclination: 90.3°
Azimuth: 180.6°
VS: 7,333.16'

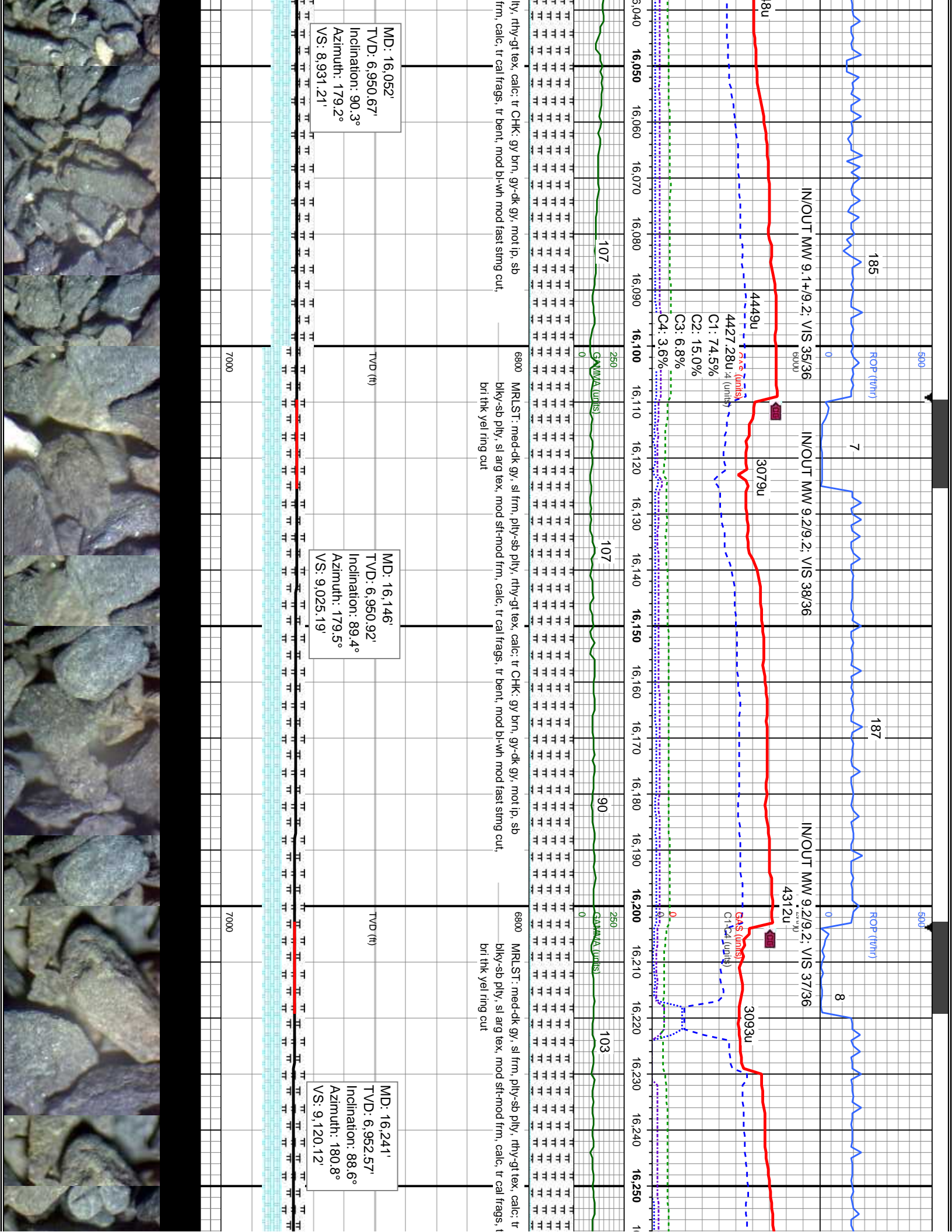
7000

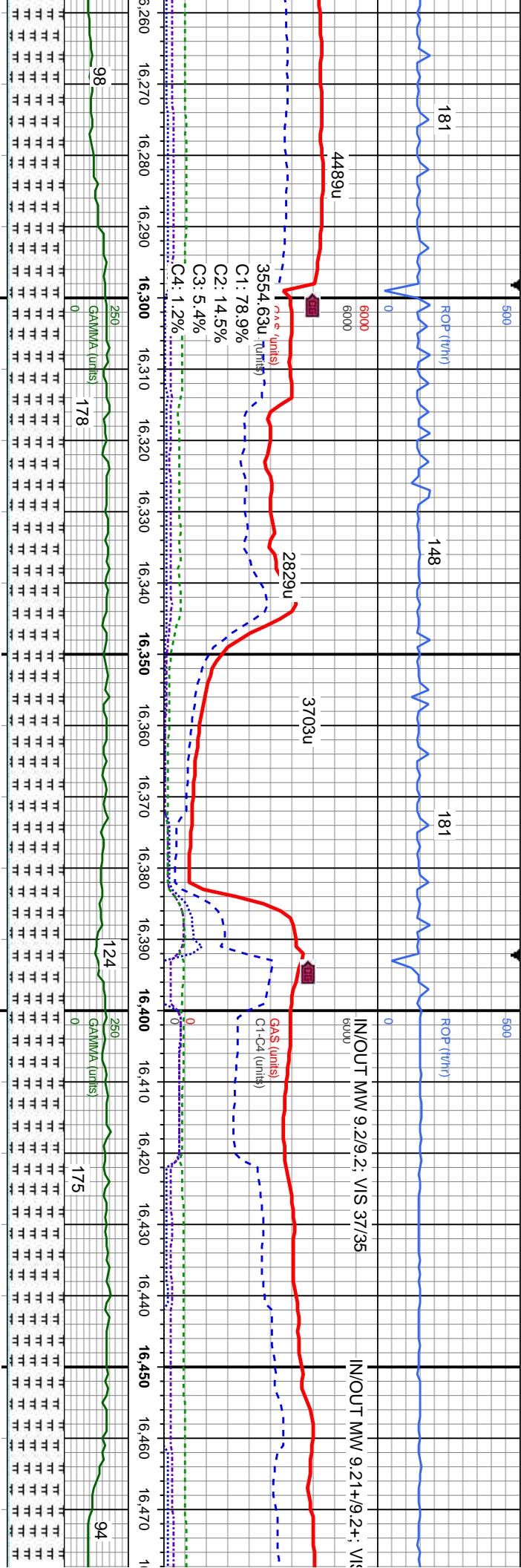
7000











CHK: gy brn, gy-dk gy, mot ip, sb
r bent, mod bl-wh mod fast string cut,

6800 MRLST: med-dk gy, sl frm, pily-sb pily, rthy-gt tex, calc, tr CHK: gy brn, gy-dk gy, mot ip, sb
biky-sb pily, sl ang tex, mod sft-mod frm, calc, tr cal frags, tr bent, mod bl-wh mod fast string cut,
bri thk yel ring cut

68 MRLST: med-dk gy, sl frm, pily-sb pily, rthy-gt tex, calc, tr CHK: gy brn, gy-dk gy, mot ip, sb
pily, sl ang tex, mod sft-mod frm, calc, tr cal frags, tr bent, mod bl-wh mod fast string cut,
ring cut

MD: 16,335'
TVD: 6,953.97'
Inclination: 89.7°
Azimuth: 180.2°
VS: 9,214.03'

MD: 16,429'
TVD: 6,954.46'
Inclination: 89.7°
Azimuth: 179°
VS: 9,308'

