



Scale: 5" / 100'
Measured Depth Log

Well Name Morton State LD01-78-1AHHN

Location SWSW SEC1 T9N R58W

State CO

Country USA

API Number 05-123-39896

Region DENVER-JULESBURG BASIN

Spud Date 11/23/2014

Surface Coordinates 400' FSL, 390' FWL

Lat/Long: 40.77445/-103.82025

Ground Elevation 4656'

Logged Interval 4900' To 14656

Formation PIERRE (TEEPEE BUTTES, SHARON SPRINGS), NIOBRARA (SMOKY HILLS A & B SUBMEMBERS)

Type of Drilling Fluid LSND

County WELD

Rig Number PRECISION 828

AFE # 200168

Field WILDCAT

Drilling Completed 12/1/2014

K.B. Elevation 4672'

Total Depth 14656'

Company NOBLE ENERGY INC.
Address 1625 Broadway
Denver, CO 80202

Name TERESA MALESARDI
Company NOBLE ENERGY INC.
Address 1625 Broadway
Denver, CO 80202

WELL SITE GEOLOGIST:

Operator

Geologist

Rock Types

UNKNOWN	BRECCIA	GRANITE	SHALE
CHALK	CEMENT	GYPSUM	SHALE CC
MARLSTONE	CHERT	IGNEOUS	SHALE GF
SANDSTONE	CLAY CHOKE SAND	SIDERITE or LIMONITE	SILTSTONE
SHALY SANDSTONE	CLAYSTONE	LIMESTONE	TILL
SILTY SHALE	COAL	METAMORPHIC	TUFF
SHALY SILTSTONE	CONGLOMERATE	NO SAMPLE	WELDED
ANHYDRITE	DOLOMITE	SALT	
BENTONITE	DOLOMITIC LIMESTONE	SALT-PEPPER SAND	

Accessories

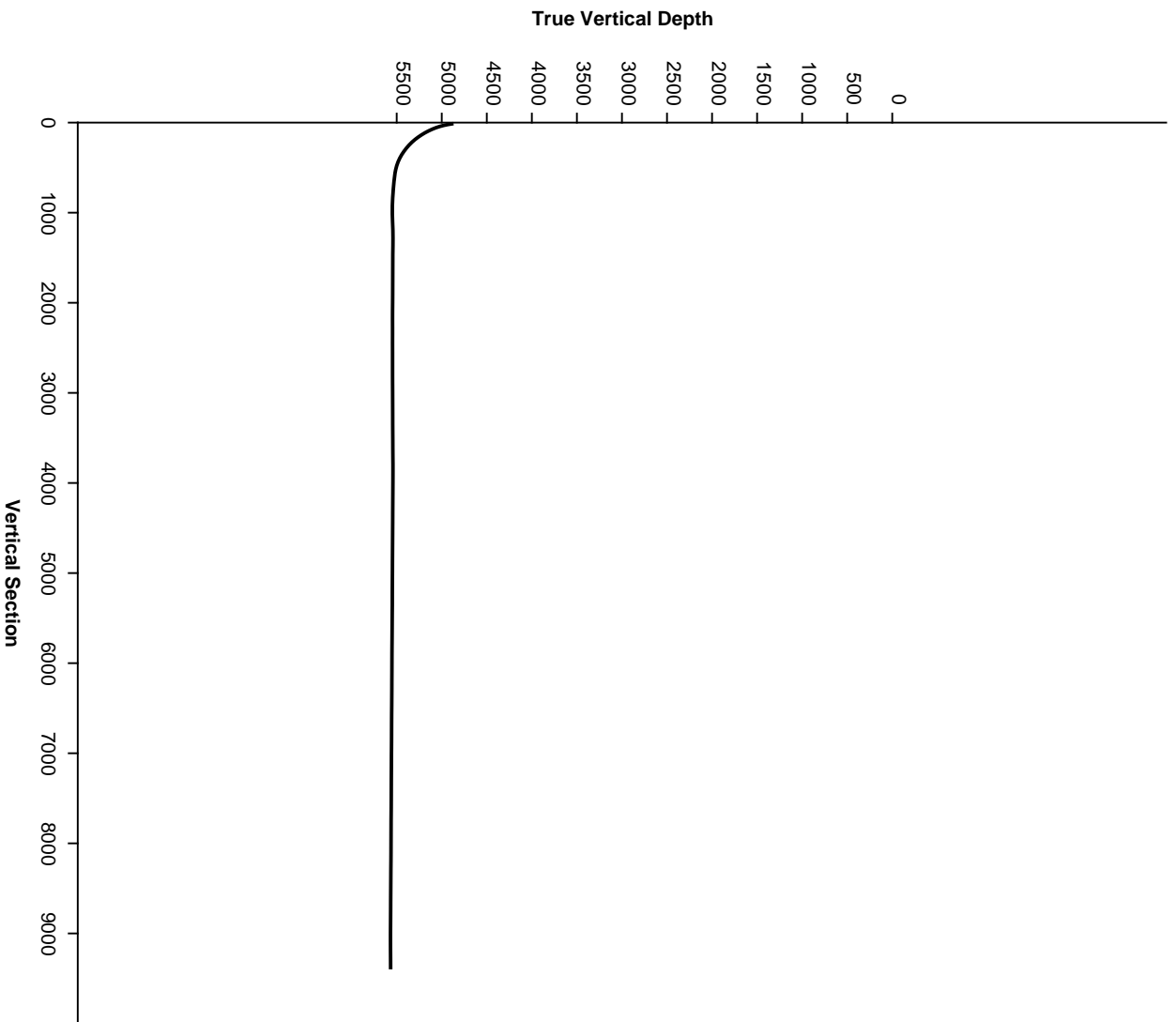
GASTROPOD	ARGILLITE GRAIN	HEAVY MINERAL	ANHYDRITE STRINGER
INOCERAMUS	BENTONITE	KAOLIN	BENTONITE STRINGER
ALGAE	BITUMINOUS SUBSTANCE	MARLSTONE	COAL STRINGER
AMPHIPORA	BRECCIA FRAGMENTS	MICACEOUS	DOLOMITE STRINGER
BELEMNITE	CALCAREOUS	MINERAL CRYSTALS	GYPSUM STRINGER
BIOCLASTIC	CARBONACEOUS FLAKES	NODULES	LIMESTONE STRINGER
BRACHIOPOD	CHTDK	PHOSPHATE PELLETS	MARLSTONE (CALC) STRINGER
BRYOZOA	CHTL	PYRITE	MARLSTONE (DOL) STRINGER
CEPHALOPOD	COAL-THIN BEDS	SALT CAST	SANDSTONE STRINGER
CORAL	DOLOMITIC	SANDY	SHALE STRINGER
CRINOID	FELDSPAR	SILTACEOUS	SILTSTONE STRINGER
ECHINOID	FERRUGINOUS PELLET	SILTY	
FISH	FERRUGINOUS	TUFFACEOUS	
FORAMINIFERA	ANHYDRITIC		
FOSSIL	ARGILLACEOUS		
	GLAUCOITE		
	GYPSIFEROUS		

Other

LOGS: GARY L. MYERS
C.S. METZ

LOG CONTINUES FROM FILE: Morton State LD01-78-1AHN Vert.mplot
GEOLOGICAL SERVICES PROVIDED BY COLUMBINE LOGGING, INC.

Survey Elevation



Slide/Rotate

ROP
ROP

CONNECTIONS BY PIPE TALLY

WT 9.8 / VIS 39

ROP (T/H)

Total Gas & Chromatograph

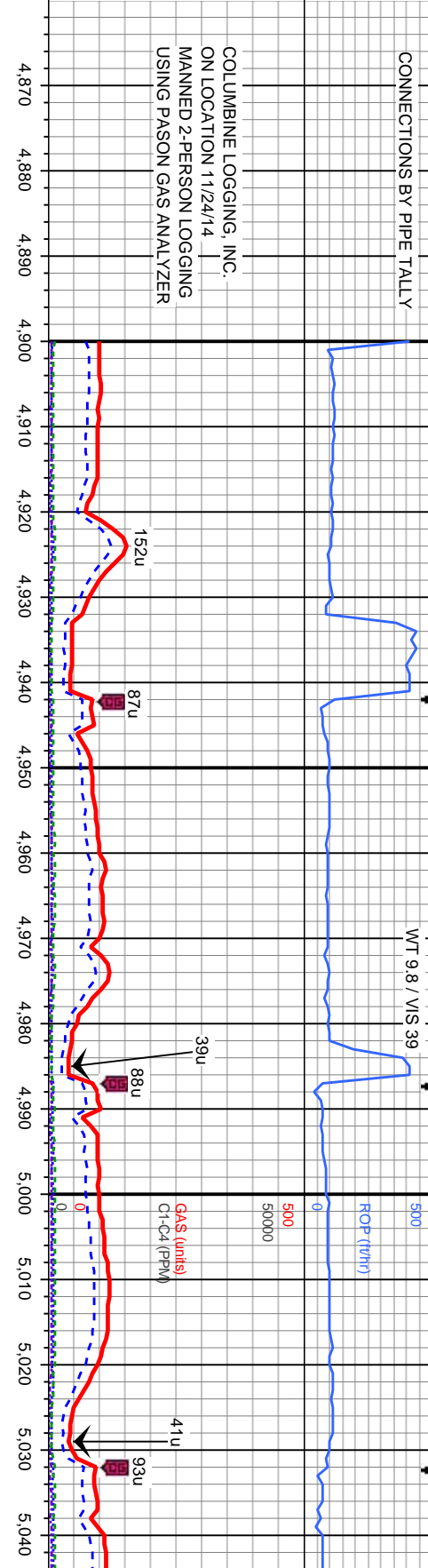
- GAS
- C1
- C2
- C3
- C4

COLUMBINE LOGGING, INC.
ON LOCATION 11/24/14
MANNED 2-PERSON LOGGING
USING PASON GAS ANALYZER

Depth Labels

% Lith

Gamma
GAMMA



Bit Data

Bit #: 2
Type: SMITH SD1519
Size: 8.75"
Depth In: 1,212
Jets: 7/13
S/N: J18089

LOG CONTINUES FROM FILE:
Morton State LD01-78-1-AHN Vert.mplot

SLTY SH: mgy to gybrn, lgy ip, mod frm, sbbkly to pily, rthy, gt tex, sl calc, sl sdy ip, grdg to shy ss, occ f to m gr clr to trns ss

MD: 4.929'
TVD: 4.889.57'
INC: 7.9°
AZM: 4.7°

MD: 4.974'
TVD: 4.933.99'
INC: 10.4°
AZM: 2.1°

BEGIN 30' SAMPLES
60 DESCRIPTIONS

TVD (ft)
MD: 5.018'
TVD: 4.977.02'
INC: 13.7°
AZM: 0.1°

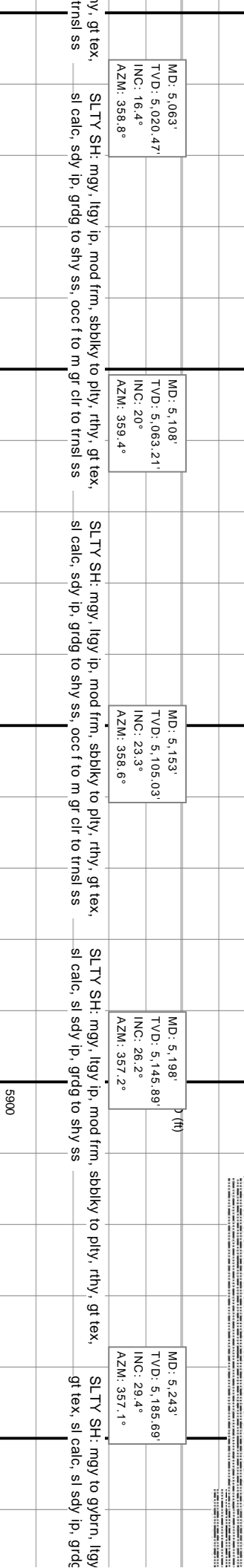
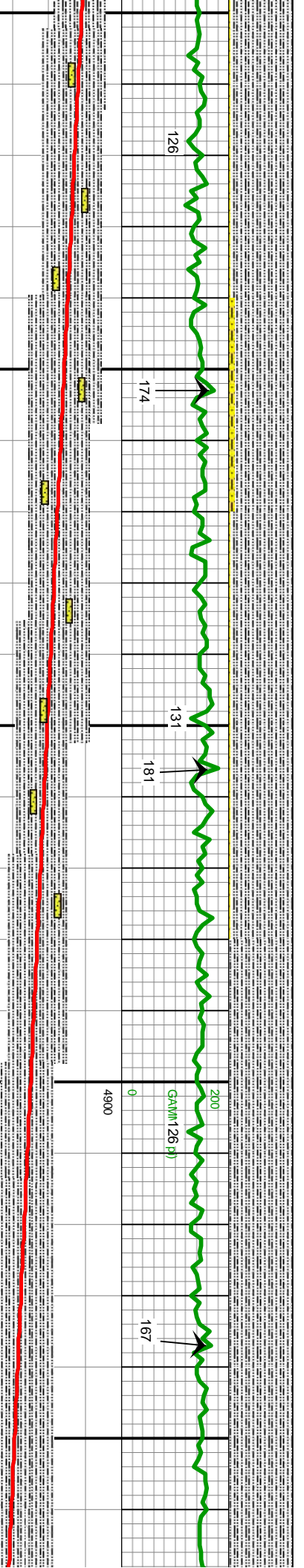
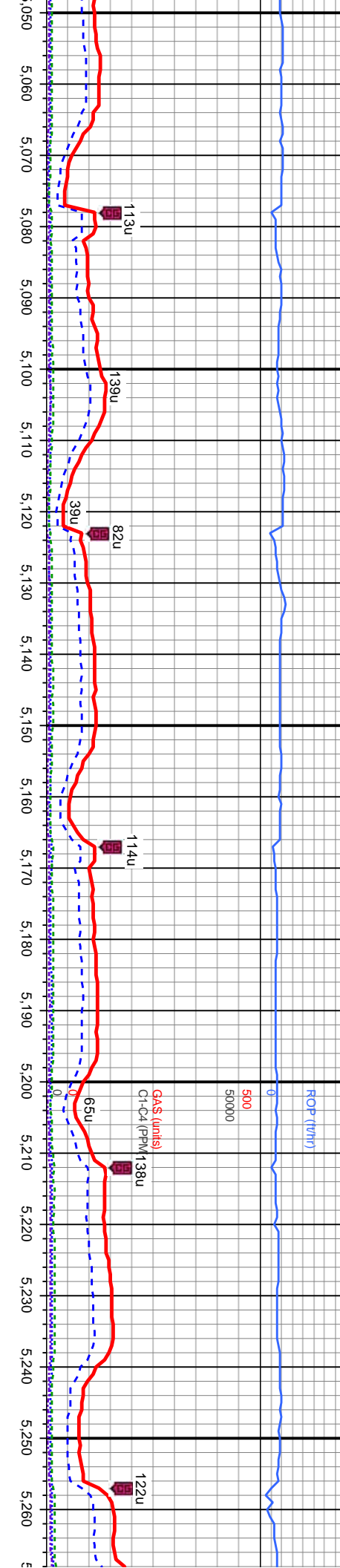
SLTY SH: mgy, lgy ip, mod frm, sbbkly to pily, rthy, sl calc, sdy ip, grdg to shy ss, occ f to m gr clr to

Oil Show

E
G
M
F
T
ST

Images





MD: 5,063'
 TVD: 5,020.47'
 INC: 16.4°
 AZM: 358.8°

MD: 5,108'
 TVD: 5,063.21'
 INC: 20°
 AZM: 359.4°

MD: 5,153'
 TVD: 5,105.03'
 INC: 23.3°
 AZM: 358.6°

MD: 5,198'
 TVD: 5,145.89'
 INC: 26.2°
 AZM: 357.2°

MD: 5,243'
 TVD: 5,185.69'
 INC: 29.4°
 AZM: 357.1°

SL.TY SH: mgy, ltgy ip, mod frm, sbblky to plty, rthy, gt tex,
 sl calc, sdy ip, grdg to shy ss, occ f to m gr cfr to trnsi ss

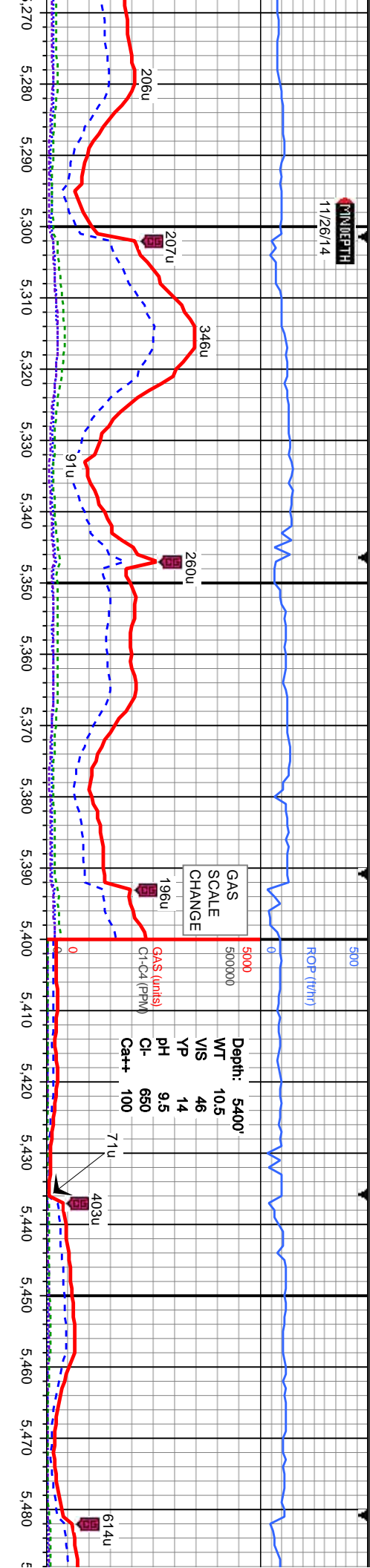
SL.TY SH: mgy, ltgy ip, mod frm, sbblky to plty, rthy, gt tex,
 sl calc, sdy ip, grdg to shy ss, occ f to m gr cfr to trnsi ss

SL.TY SH: mgy, ltgy ip, mod frm, sbblky to plty, rthy, gt tex,
 sl calc, sl sdy ip, grdg to shy ss

SL.TY SH: mgy to gybrn, ltgy
 gt tex, sl calc, sl sdy ip, grdc

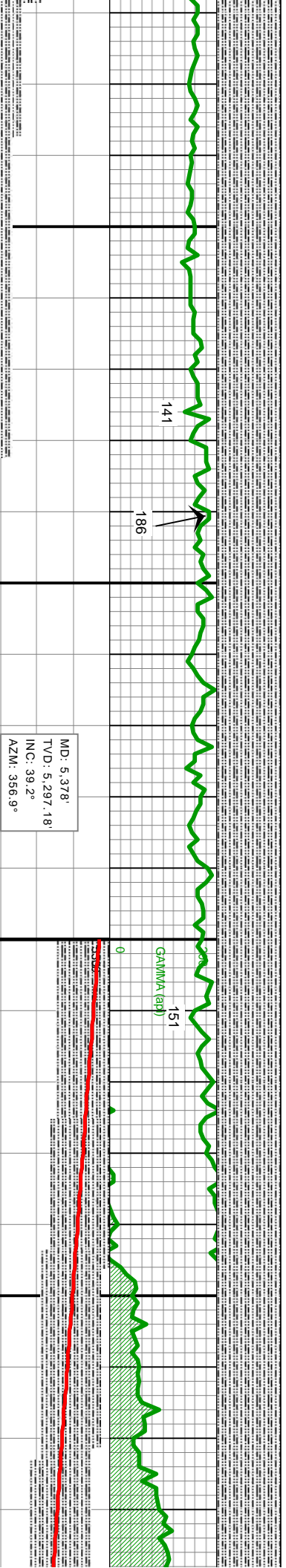


MINDEPTH
11/26/14



GAS SCALE CHANGE

Depth: 5400'
 WT 10.5
 YP 46
 pH 9.5
 Ca++ 100



MD: 5.378
 TVD: 5.297.18'
 INC: 39.2°
 AZM: 356.9°

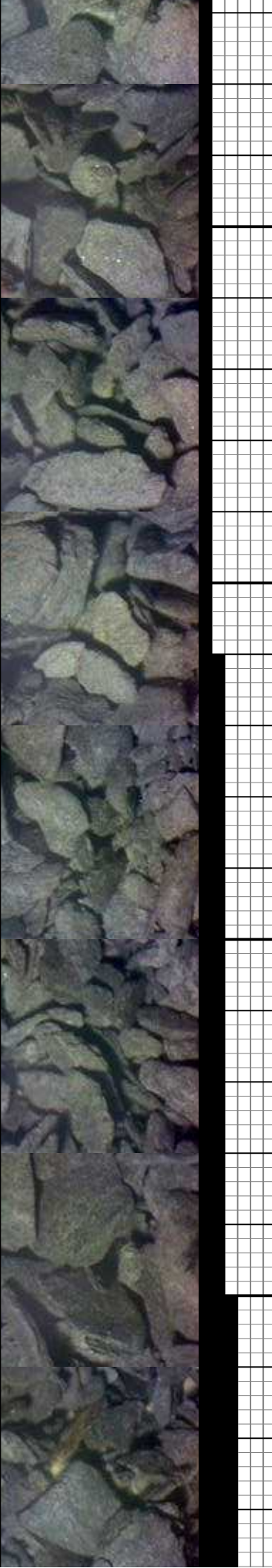
MD: 5.288'
 TVD: 5.224.2'
 INC: 32.9°
 AZM: 355.5°

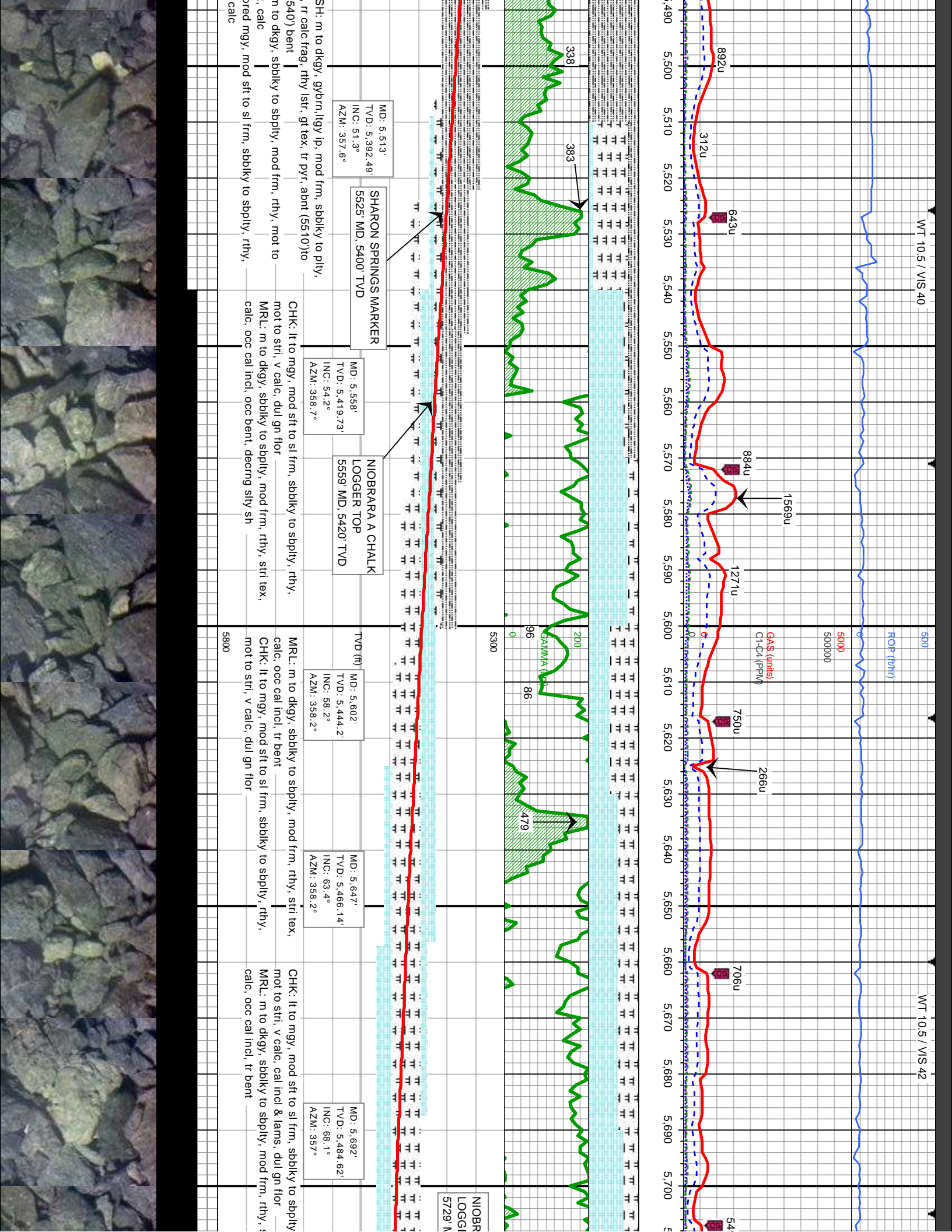
MD: 5.333'
 TVD: 5.261.42'
 INC: 35.5°
 AZM: 356.4°

MD: 5.423'
 TVD: 5.331.14'
 INC: 42.8°
 AZM: 357.8°

MD: 5.458'
 TVD: 5.363.03'
 INC: 46.9°
 AZM: 358.3°

ip, mod frm, sbblky to plty, rthy, SLTY SH: mgy to gybrn, ltgy ip, mod frm, sbblky to plty, rthy, gt tex, sl calc, sl sdy ip, grdg to shy ss
 rthy, gt tex, sl calc, grdg to shy ss
 SLTY SH: m to dkgy, gybrn, ltgy ip, mod frm, sbblky to plty, rthy, gt tex, sl calc, grdg to shy ss
 SLTY SH: m to dkgy, gybrn, ltgy ip, mod frm, sbblky to plty, rthy, gt tex, sl calc, grdg to shy ss
 SLTY SH: m to dkgy, gybrn, ltgy ip, mod frm, sbblky to plty, rthy, gt tex, sl calc, grdg to shy ss
 SLTY SH: m to dkgy, gybrn, ltgy ip, mod frm, sbblky to plty, rthy, gt tex, sl calc, grdg to shy ss

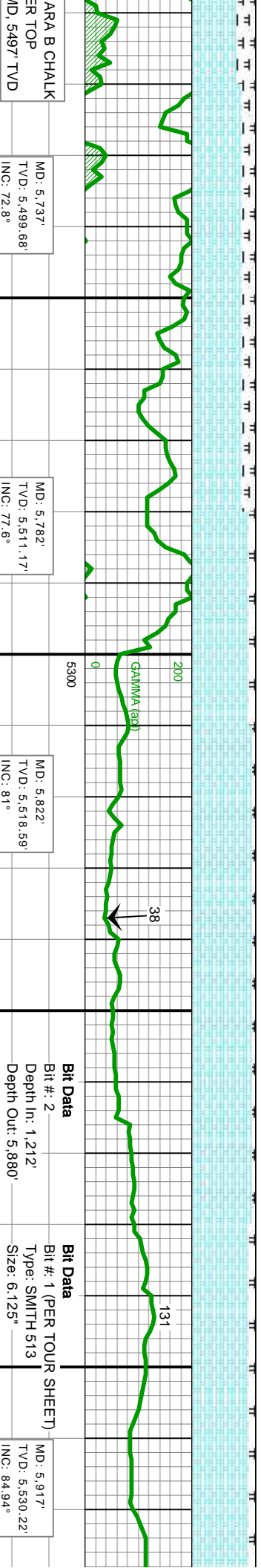
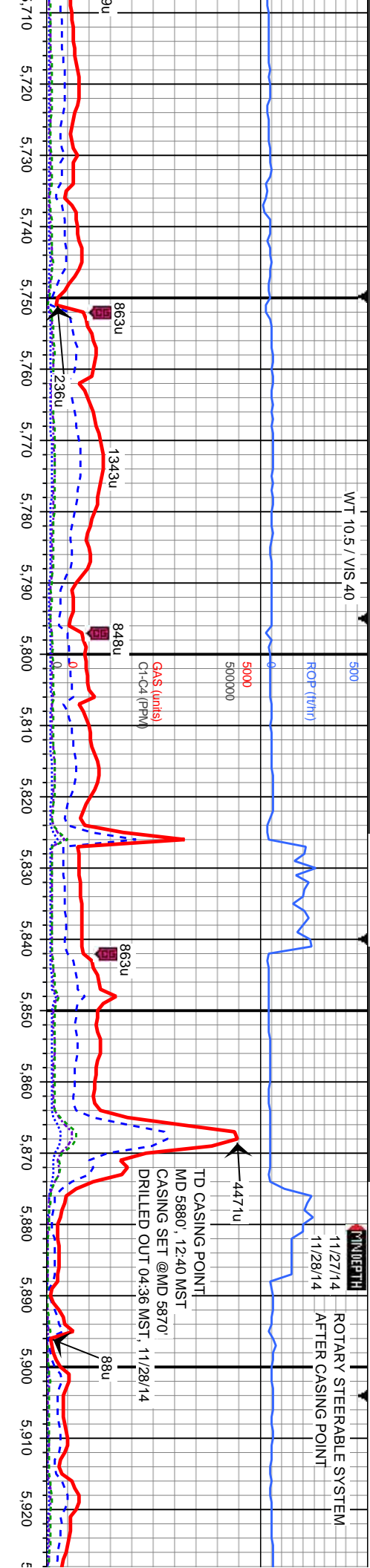




WT 10.5 / VIS 40

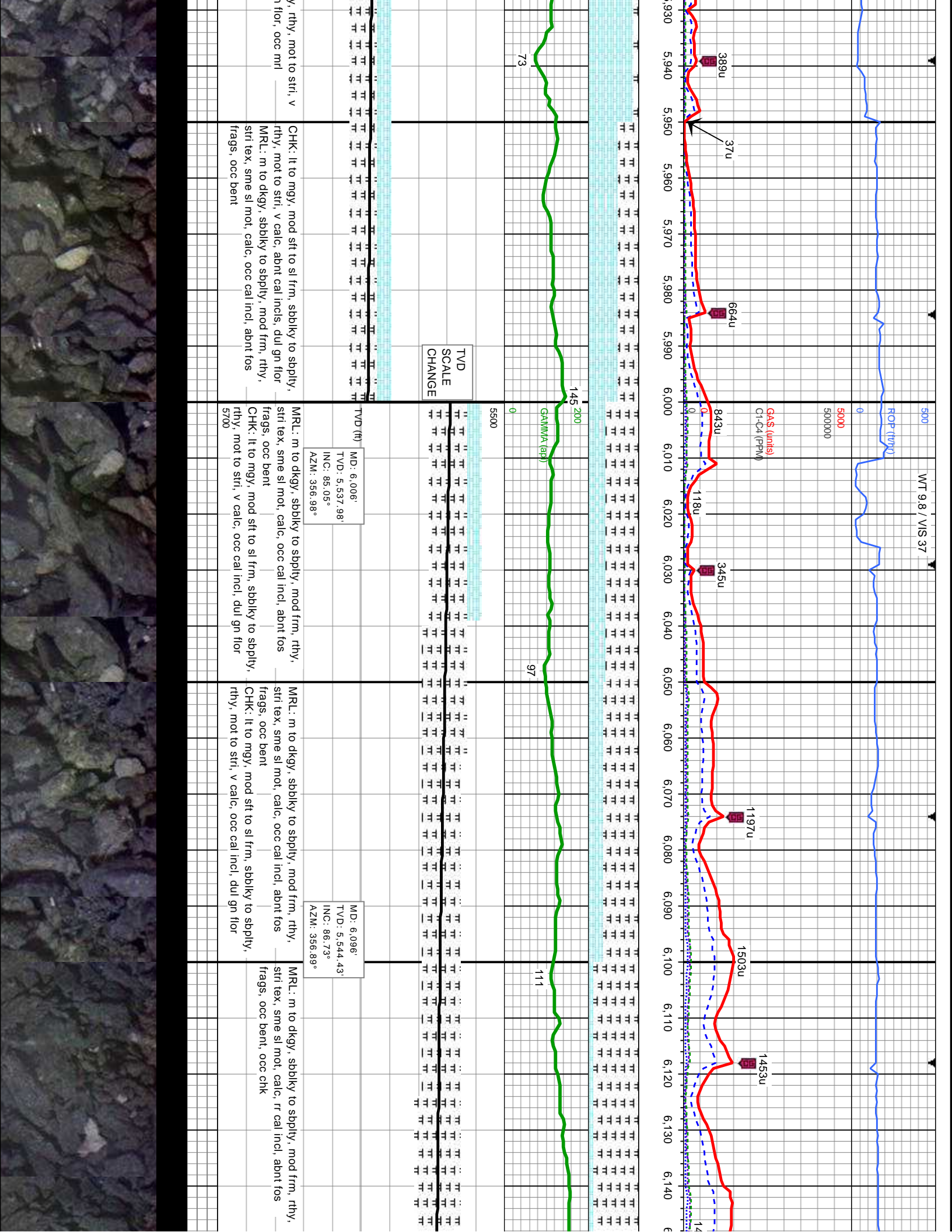
ROTARY STEERABLE SYSTEM
AFTER CASING POINT

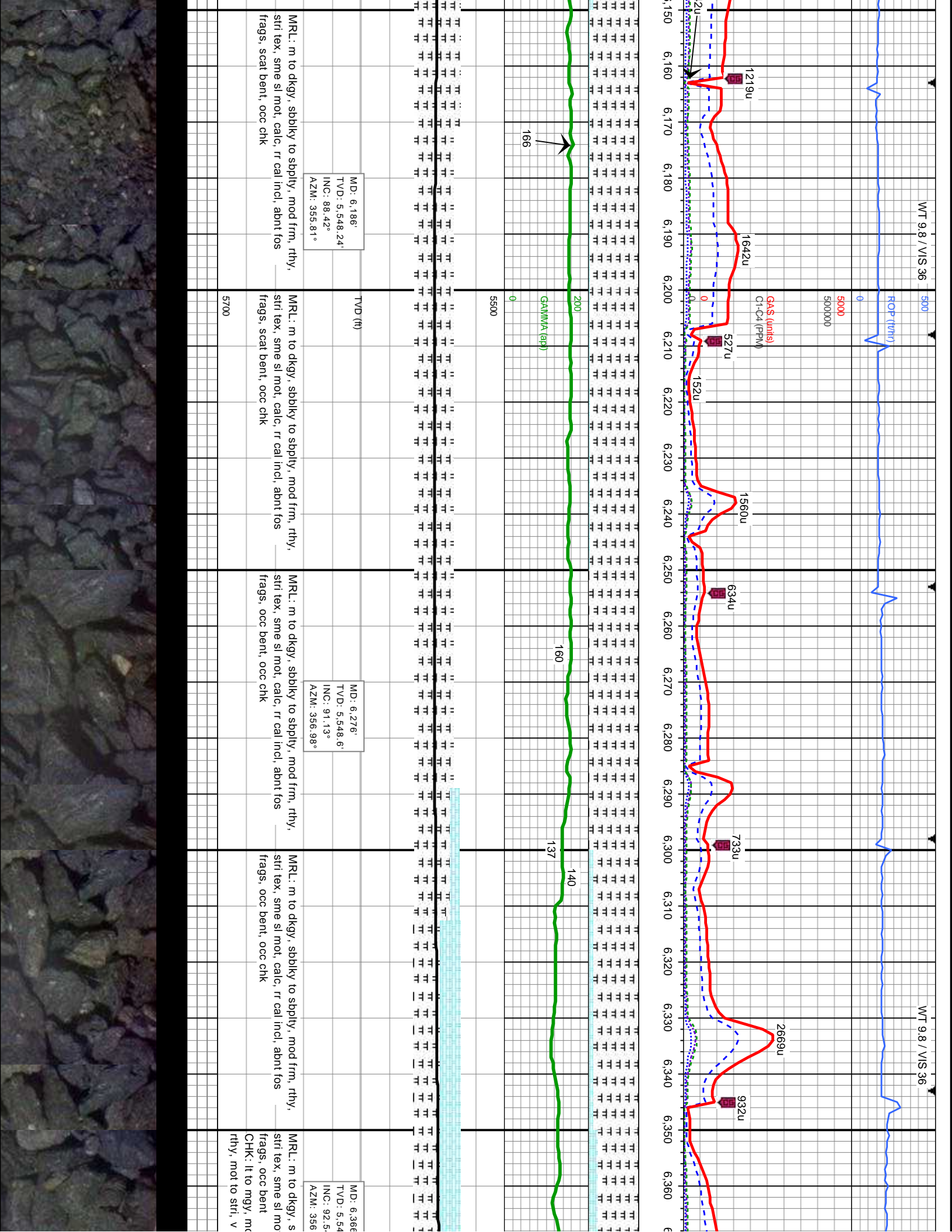
11/27/14
11/28/14

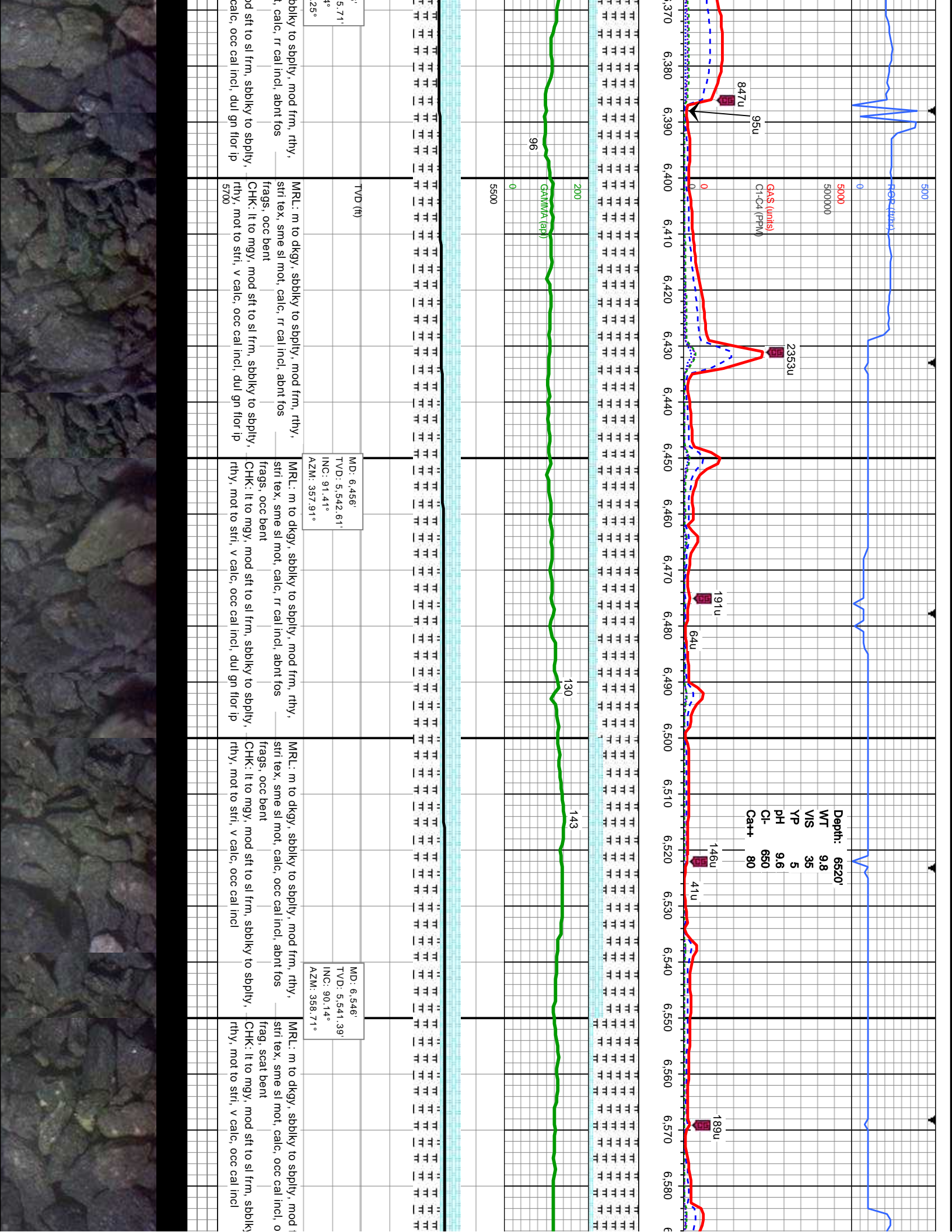


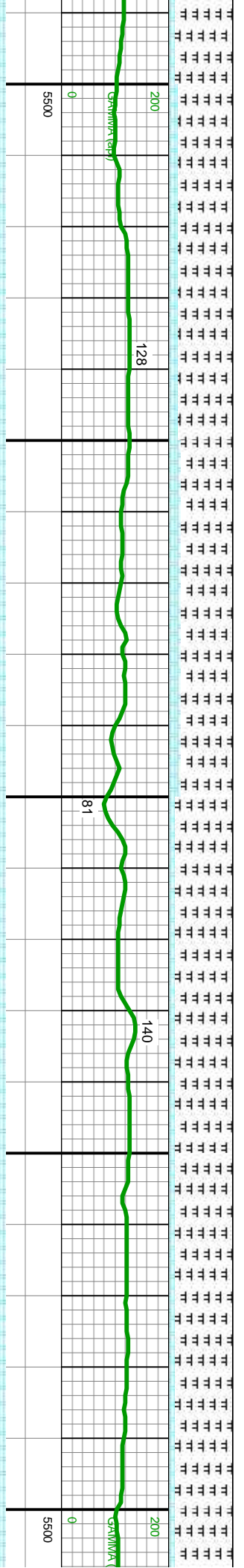
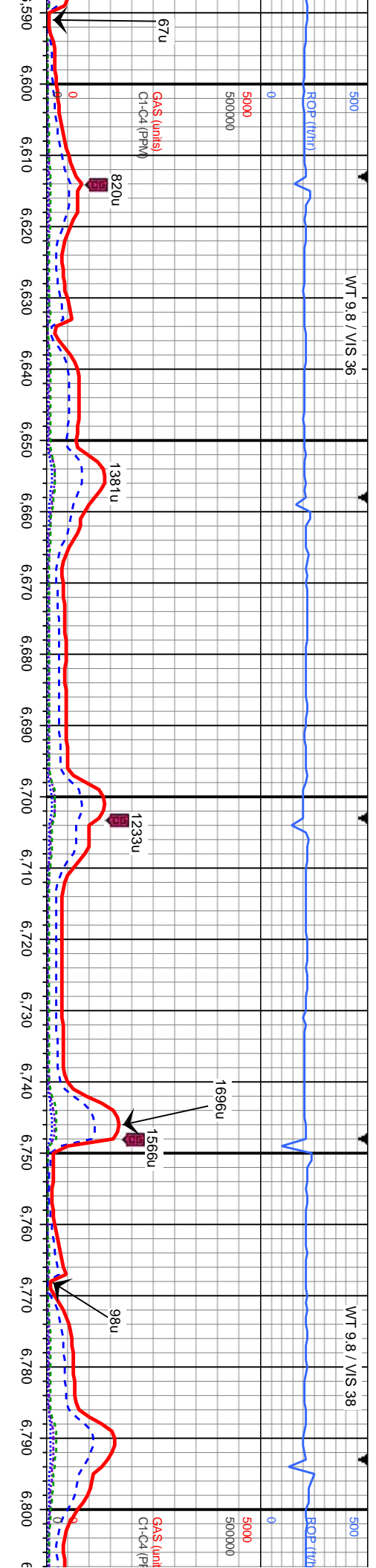
MD	TVD	INC	AZM
5.737'	5,499.68'	72.8°	356.4°
5.782'	5,511.17'	77.6°	356.7°
5.822'	5,518.59'	81°	357.1°
5.917'	5,530.22'	84.94°	356.62°





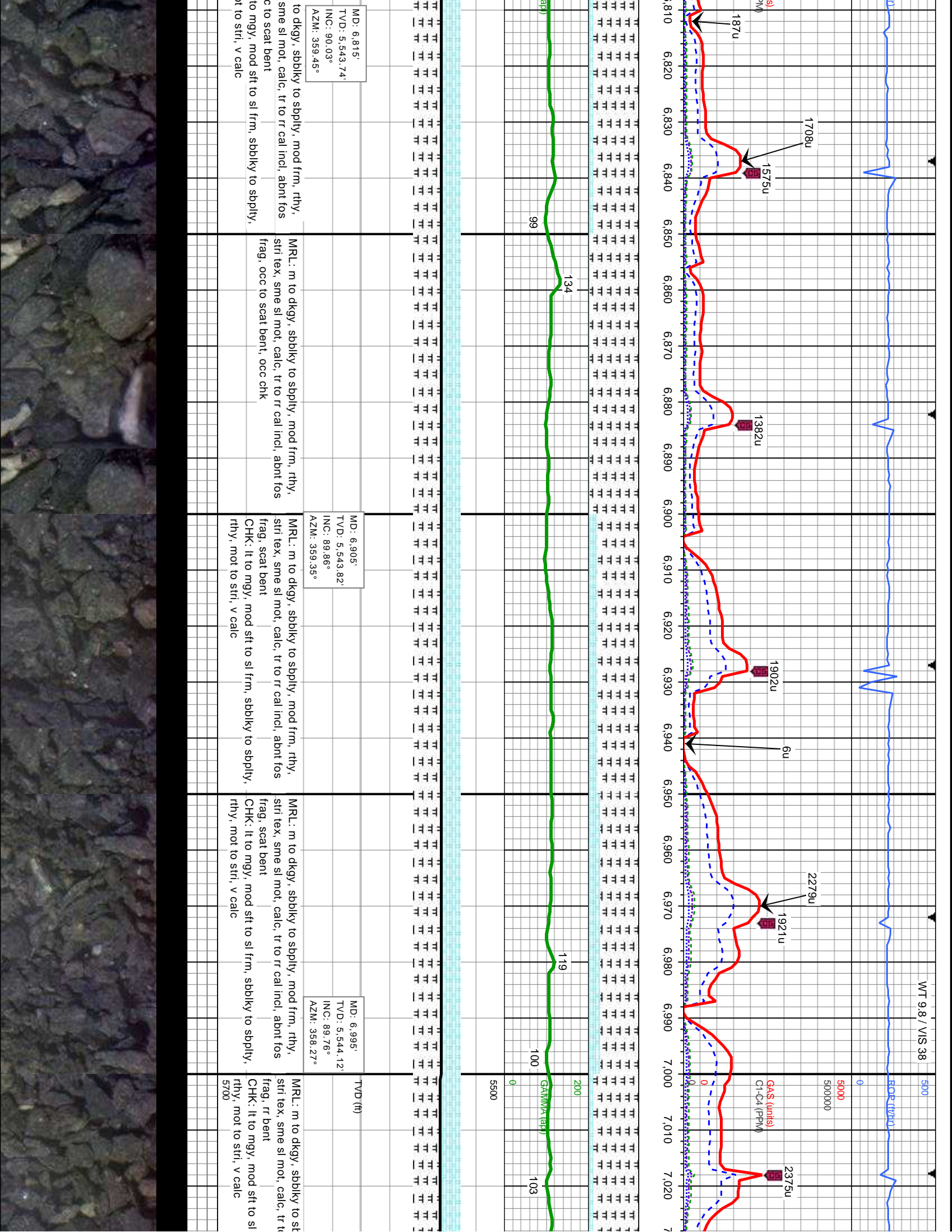


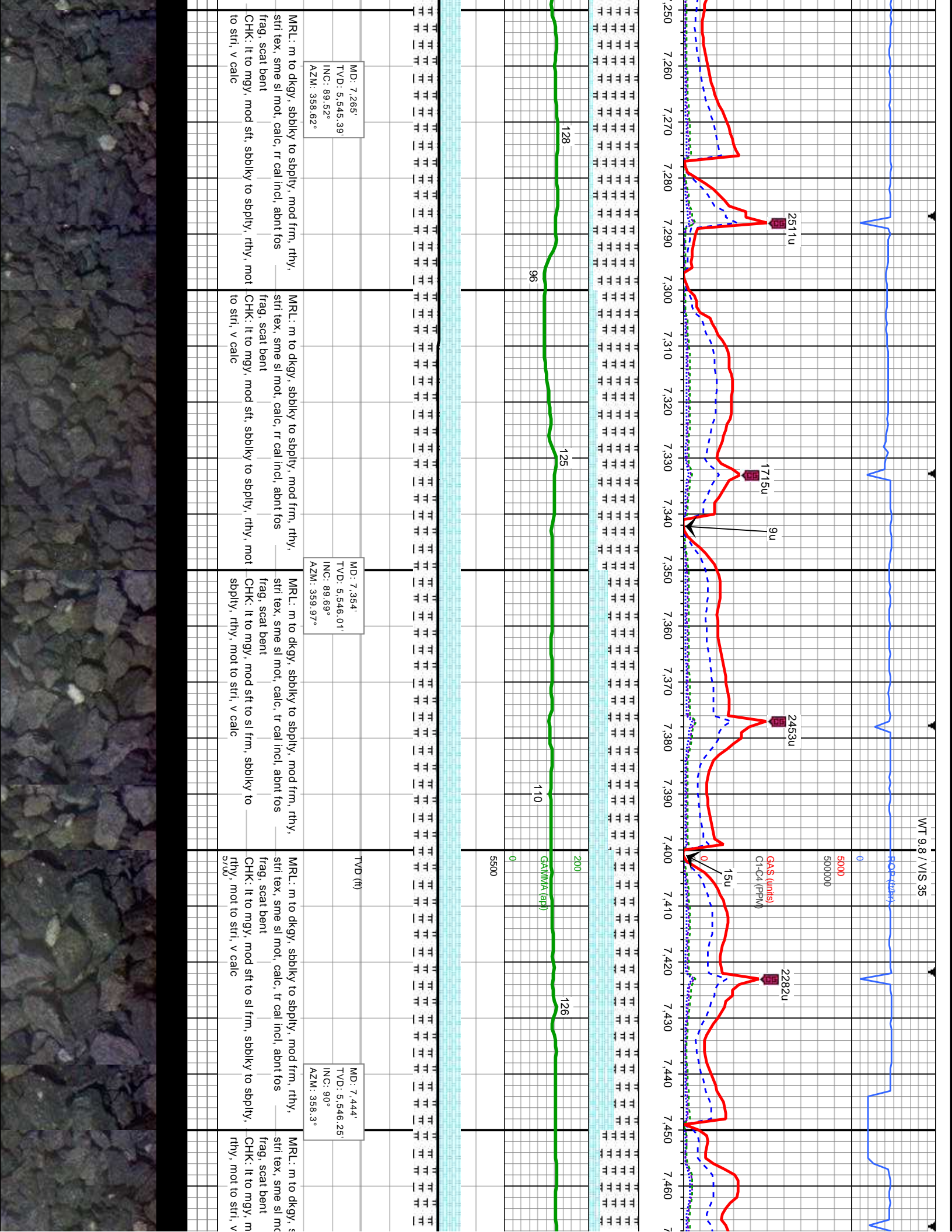


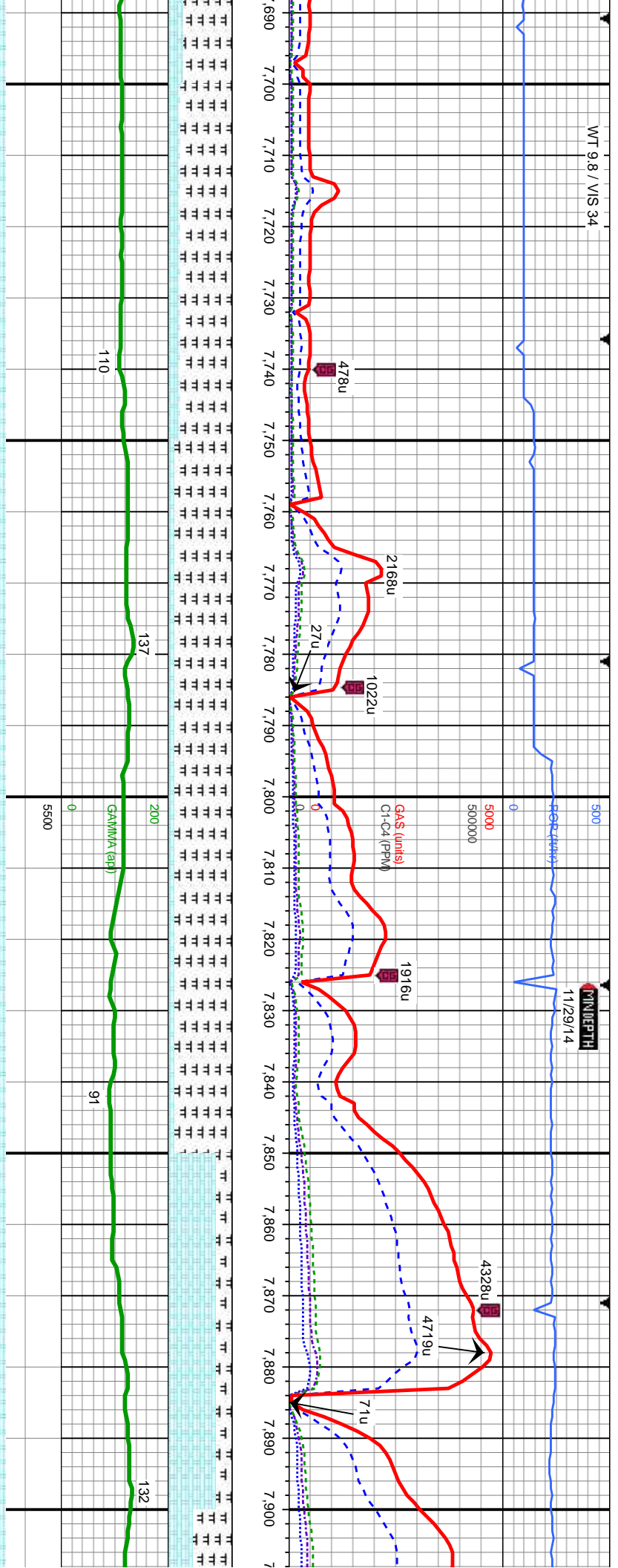


firm, rthy, cc fos	firm, rthy, sstri tex, sme sl mot, calc, occ cal incl, abnt fos frag, scat bent	firm, rthy, sstri tex, sme sl mot, calc, rr cal incl, abnt fos frag, scat bent	firm, rthy, sstri tex, sme sl mot, calc, rr cal incl, abnt fos frag, scat bent	firm, rthy, sstri tex, sme sl mot, calc, rr cal incl, abnt fos frag, scat bent	firm, rthy, sstri tex, sme sl mot, calc, rr cal incl, abnt fos frag, scat bent
to sbply,	to sbply,	to sbply,	to sbply,	to sbply,	to sbply,
5700	5700	5700	5700	5700	5700
MD: 6.636' TVD: 5.541.98' INC: 89.11° AZM: 358.6°	MD: 6.726' TVD: 5.543.22' INC: 89.31° AZM: 1.11°	MD: 6.726' TVD: 5.543.22' INC: 89.31° AZM: 1.11°	MD: 6.726' TVD: 5.543.22' INC: 89.31° AZM: 1.11°	MD: 6.726' TVD: 5.543.22' INC: 89.31° AZM: 1.11°	MD: 6.726' TVD: 5.543.22' INC: 89.31° AZM: 1.11°
TVD (ft)	TVD (ft)	TVD (ft)	TVD (ft)	TVD (ft)	TVD (ft)
MRSL: m to dkgy, sbblky to sbply, mod frm, rthy, sstri tex, sme sl mot, calc, occ cal incl, abnt fos frag, scat bent	MRSL: m to dkgy, sbblky to sbply, mod frm, rthy, sstri tex, sme sl mot, calc, rr cal incl, abnt fos frag, scat bent	MRSL: m to dkgy, sbblky to sbply, mod frm, rthy, sstri tex, sme sl mot, calc, rr cal incl, abnt fos frag, scat bent	MRSL: m to dkgy, sbblky to sbply, mod frm, rthy, sstri tex, sme sl mot, calc, rr cal incl, abnt fos frag, scat bent	MRSL: m to dkgy, sbblky to sbply, mod frm, rthy, sstri tex, sme sl mot, calc, rr cal incl, abnt fos frag, scat bent	MRSL: m to dkgy, sbblky to sbply, mod frm, rthy, sstri tex, sme sl mot, calc, rr cal incl, abnt fos frag, scat bent
CHK: It to mgy, mod sft to sl frm, sbblky to sbply, rthy, mot to stri, v calc, rr cal incl	CHK: It to mgy, mod sft to sl frm, sbblky to sbply, rthy, mot to stri, v calc, rr cal incl	CHK: It to mgy, mod sft to sl frm, sbblky to sbply, rthy, mot to stri, v calc, rr cal incl	CHK: It to mgy, mod sft to sl frm, sbblky to sbply, rthy, mot to stri, v calc, rr cal incl	CHK: It to mgy, mod sft to sl frm, sbblky to sbply, rthy, mot to stri, v calc, rr cal incl	CHK: It to mgy, mod sft to sl frm, sbblky to sbply, rthy, mot to stri, v calc, rr cal incl







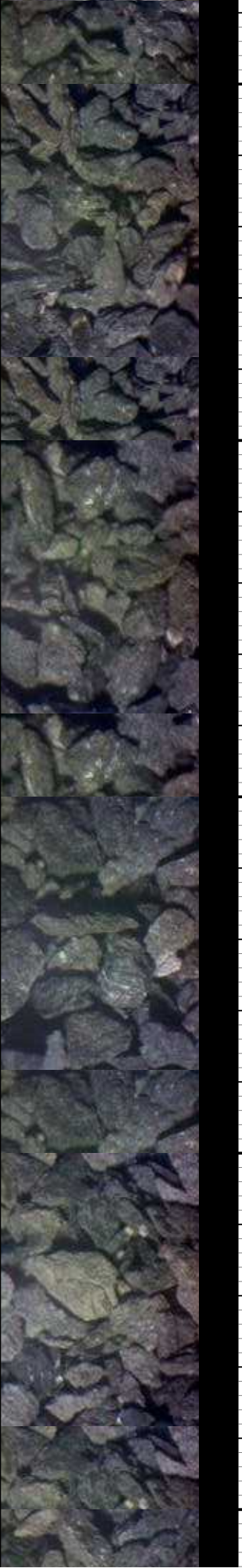


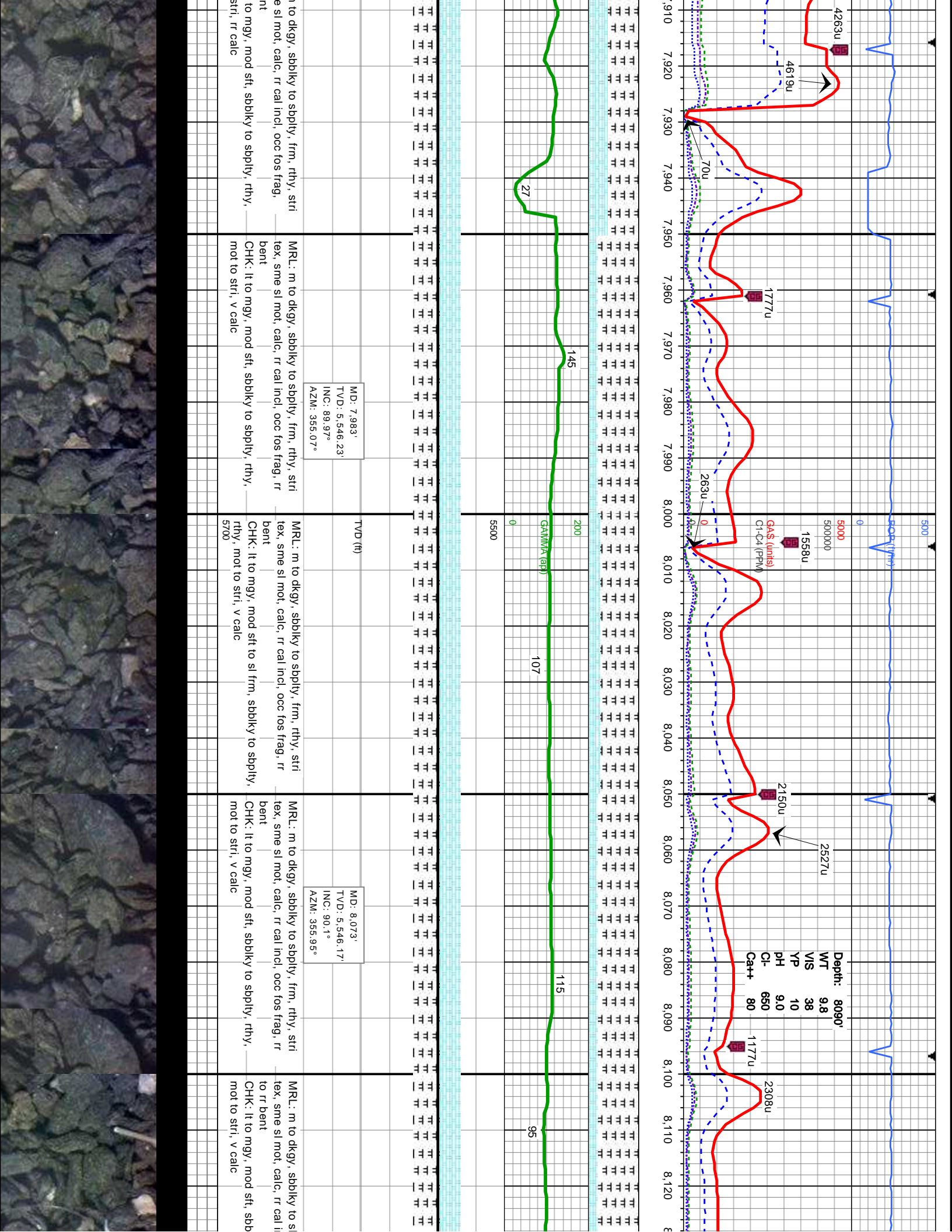
MD: 7.714'
TVD: 5,546.26'
INC: 90.07°
AZM: 355.73°

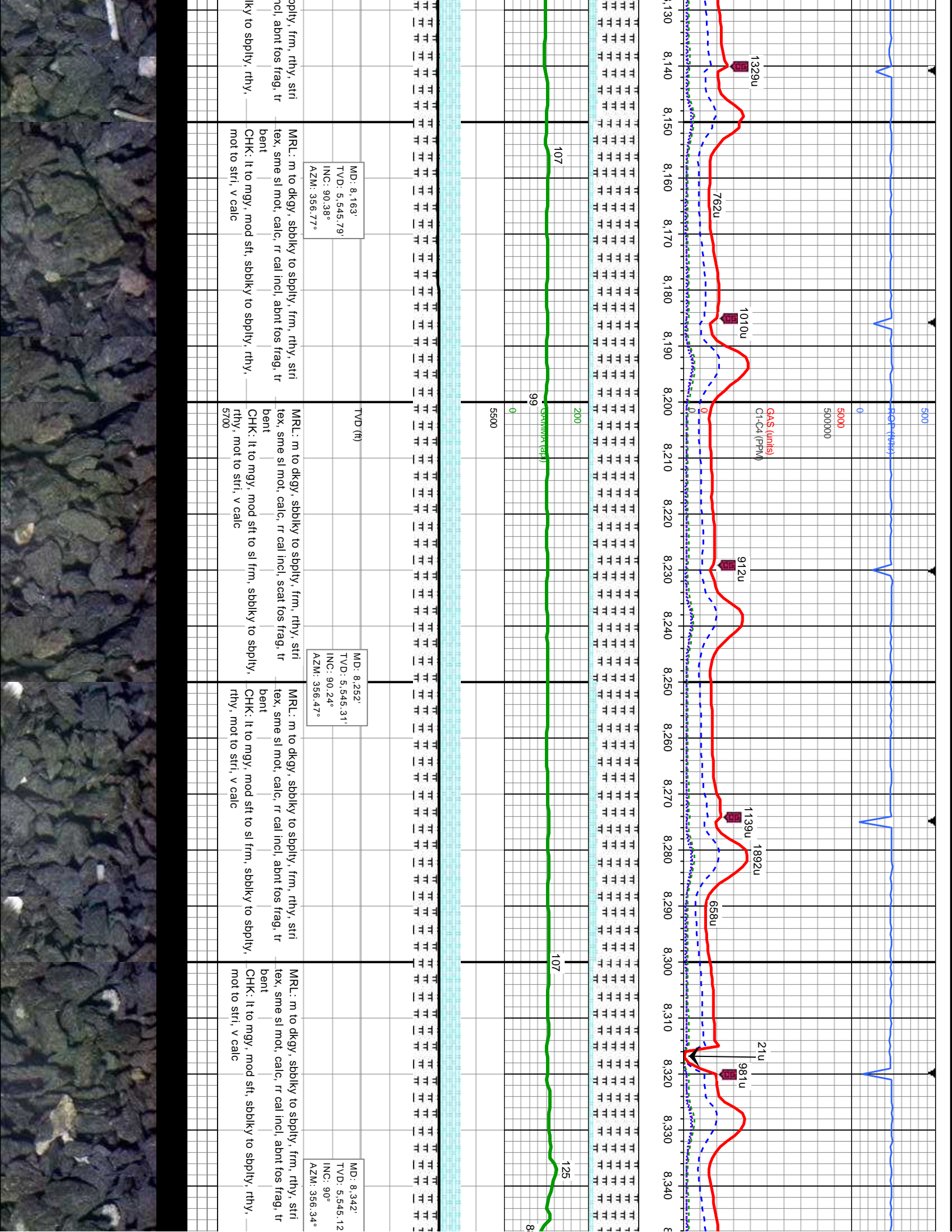
MD: 7.804'
TVD: 5,546.15'
INC: 90.07°
AZM: 355.04°

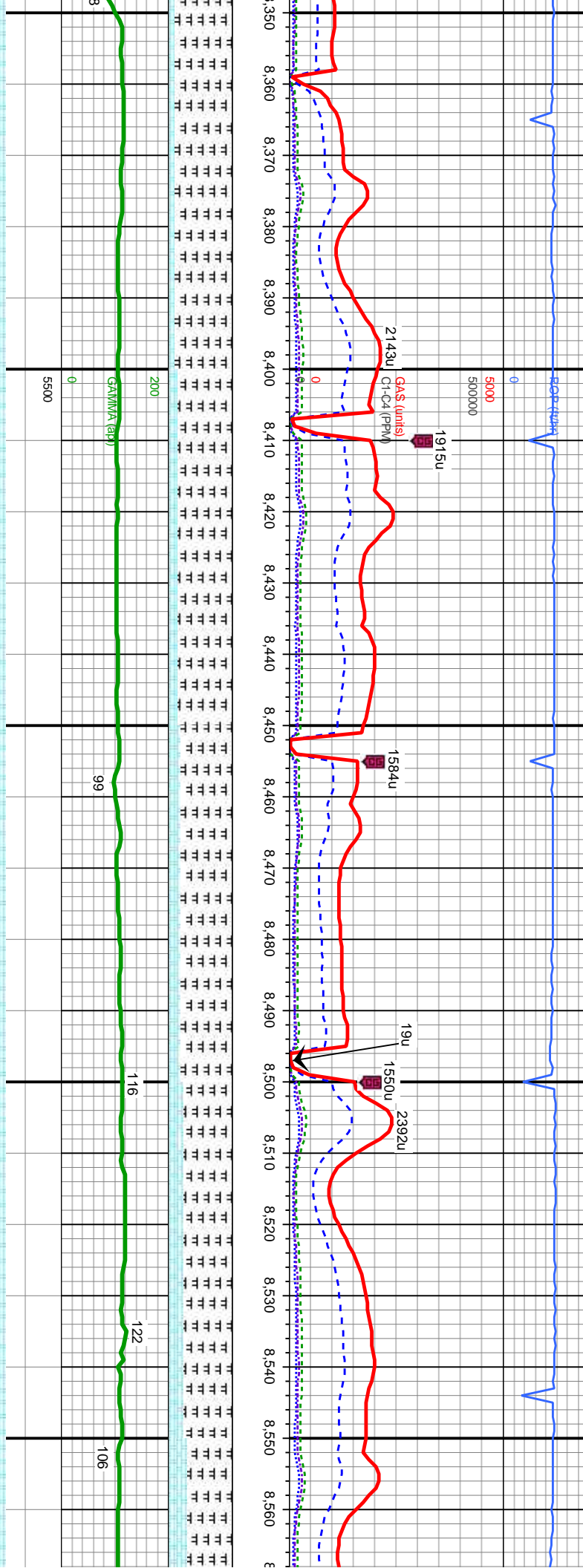
MD: 7.894'
TVD: 5,546.15'
INC: 89.93°
AZM: 354.25°

frm, rthy,	MRL: m to dkg, sbbkly to spbly, mod frm, rthy,	stri tex, sme sl mot, calc, rr cal incl, occ fos	frag, scat bent	CHK: It to mgy, mod sft, sbbkly to spbly, rthy, mot to stri, v calc
fos	MRL: m to dkg, sbbkly to spbly, mod frm, rthy,	stri tex, sme sl mot, calc, rr cal incl, occ fos	frag, scat bent	CHK: It to mgy, mod sft, sbbkly to spbly, rthy, mot to stri, v calc
y to spbly,	MRL: m to dkg, sbbkly to spbly, mod frm, rthy,	stri tex, sme sl mot, calc, rr cal incl, occ fos	frag, scat bent	CHK: It to mgy, mod sft, sbbkly to spbly, rthy, mot to stri, v calc









MRL: m to dkgy, sbblky to spblty, frm, rthy, stri
 tex, sme sl mot, calc, rr cal incl, abnt fos frag, tr
 bent
 CHK: It to mgy, mod sft, sbblky to spblty, rthy,
 mot to stri, v calc

MRL: m to dkgy, sbblky to spblty, mod frm, rthy,
 stri tex, sme sl mot, calc, occ fos frag, occ bent
 CHK: It to mgy, mod sft, sbblky to spblty, rthy,
 mot to stri, v calc

MRL: m to dkgy, sbblky to spblty, mod frm, rthy,
 stri tex, sme sl mot, calc, occ fos frag, occ bent
 CHK: It to mgy, mod sft, sbblky to spblty, rthy,
 mot to stri, v calc

MRL: m to dkgy, sbblky to spblty, mod frm, rthy,
 stri tex, sme sl mot, calc, occ fos frag, occ bent
 CHK: It to mgy, mod sft, sbblky to spblty, rthy,
 mot to stri, v calc

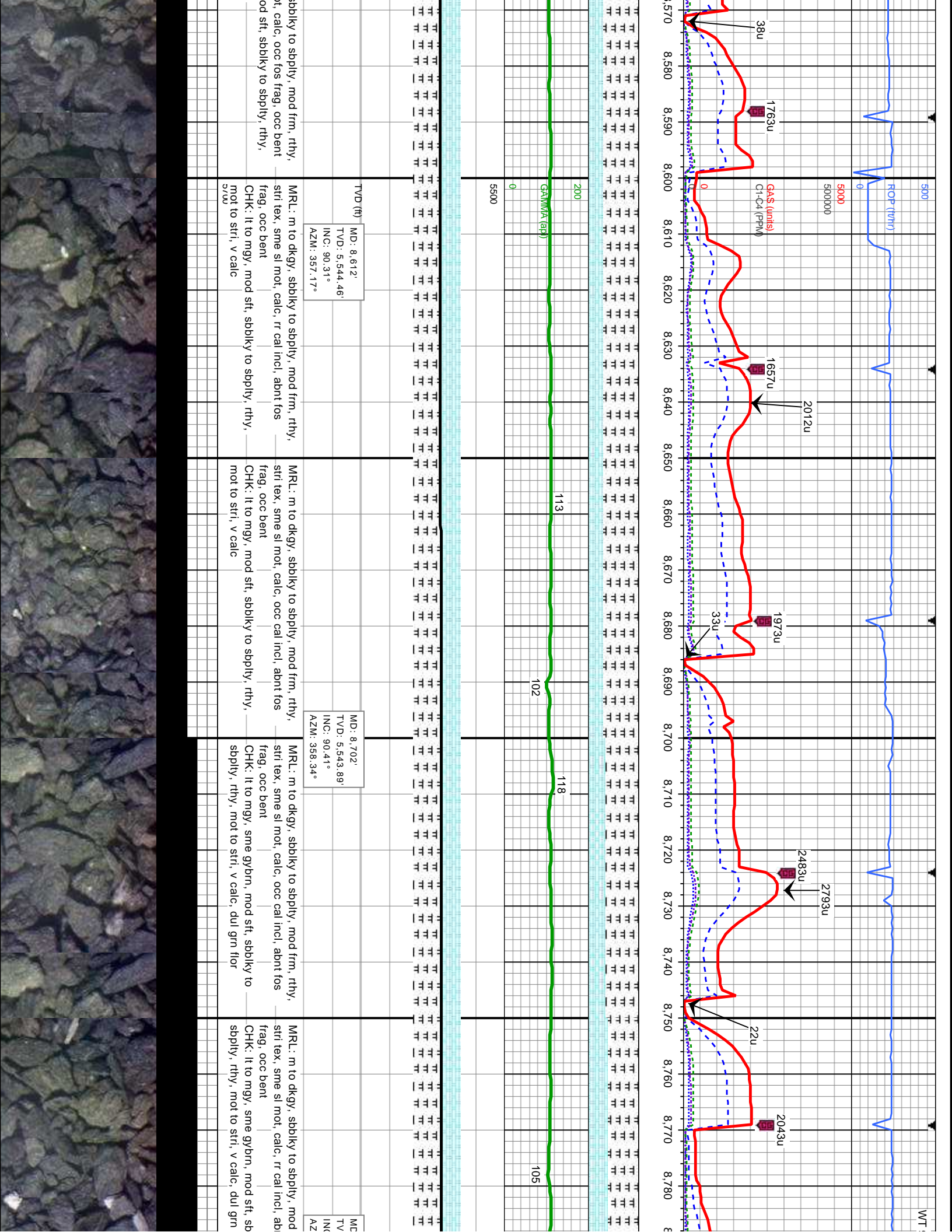
MRL: m to dkgy, s
 stri tex, sme sl m
 CHK: It to mgy, m
 mot to stri, v calc

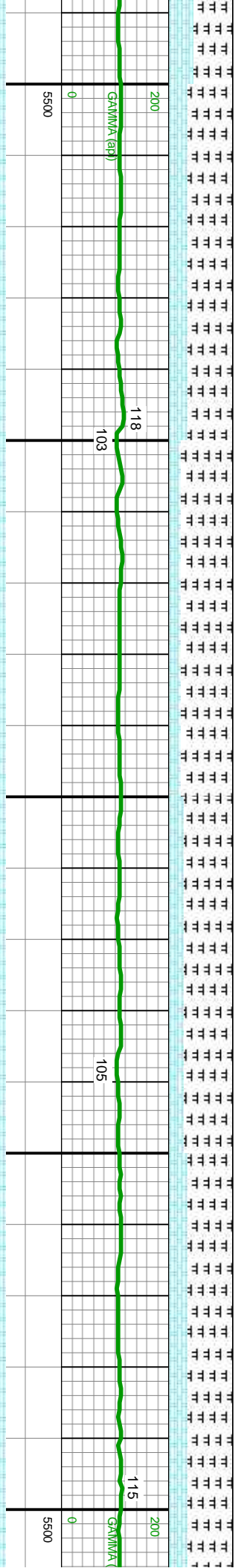
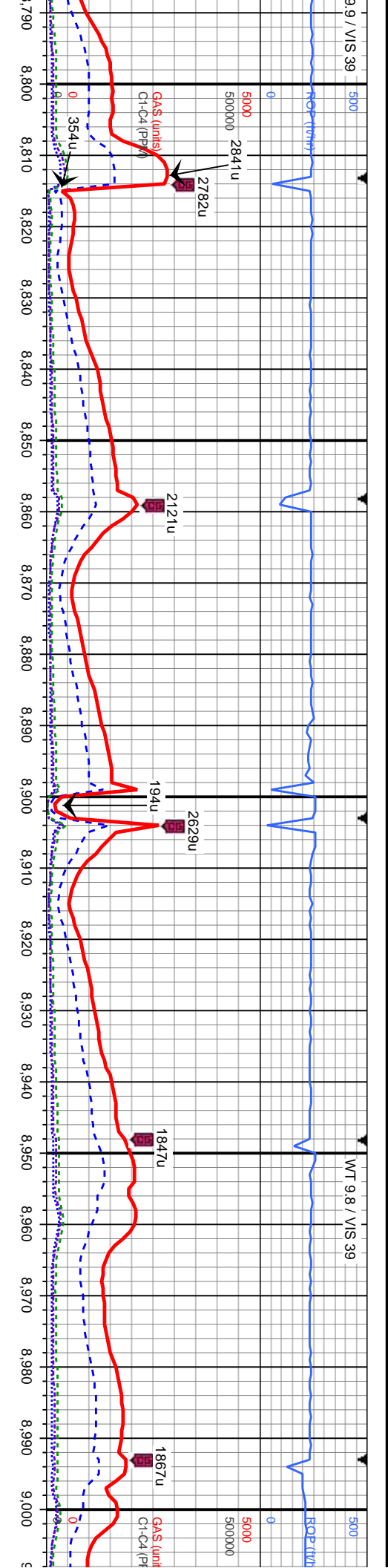
MD: 8.432'
 TVD: 5,544.75'
 INC: 90.48°
 AZM: 356.61°

MD: 8.522'
 TVD: 5,544.54'
 INC: 89.79°
 AZM: 355.31°

TVD (ft)







8,791'	MD: 8.791'	TVD: 5,543.36'	INC: 90.27°	AZM: 1.26°
8,881'	MD: 8.881'	TVD: 5,542.96'	INC: 90.24°	AZM: 1.27°
8,971'	MD: 8.971'	TVD: 5,542.37'	INC: 90.52°	AZM: 2.13°

MRL: m to dkgy, sbbkly to sbbply, mod frm, rthy, stri tex, sme sl mot, calc, rr cal incl, abnt fos frag, occ bent

CHK: It to mgy, mod sft, sbbkly to sbbply, rthy, mot to stri, v calc, dul grn flr

5700

MRL: m to dkgy, sbbkly to sbbply, mod frm, rthy, stri tex, sme sl mot, calc, occ cal incl, abnt fos frag, occ bent

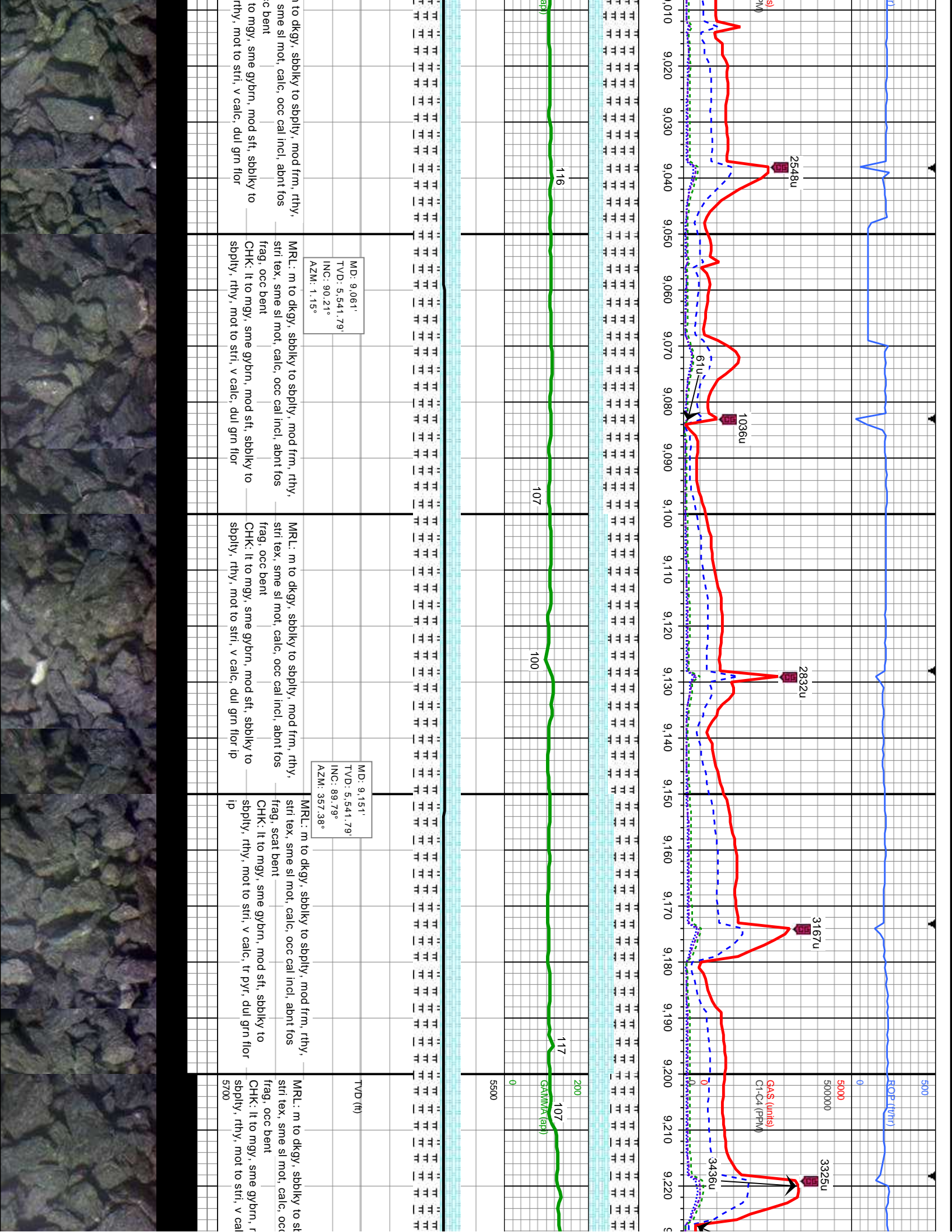
CHK: It to mgy, sme gybrn, mod sft, sbbkly to sbbply, rthy, mot to stri, v calc, dul grn flr

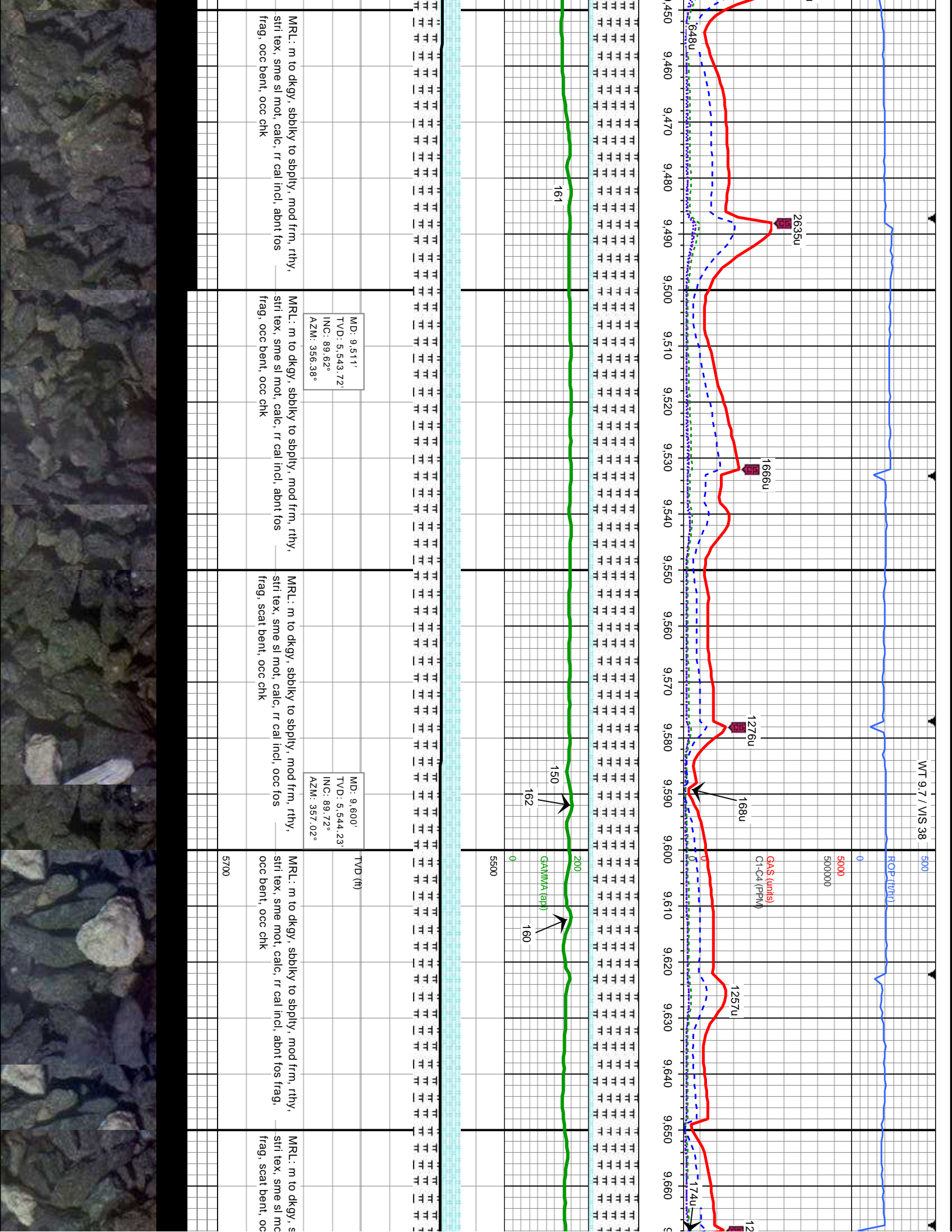
5700

MRL: m to dkgy, sbbkly to sbbply, mod frm, rthy, stri tex, sme sl mot, calc, occ cal incl, abnt fos frag, occ bent

CHK: It to mgy, sme gybrn, mod sft, sbbkly to sbbply, rthy, mot to stri, v calc, dul grn flr

5700





WT 9.7 / VIS 38

ROP (ft/min)

GAS (units)

G1-C4 (ppmv)

GAMMA (cpm)

2635u

1666u

1276u

168u

1257u

12

161

150

162

200

160

MD: 9,511'

TVD: 5,543.72'

INC: 89.62°

AZM: 356.38°

MRL: m to dkgy, sbblky to sbply, mod frm, rthy,
stri tex, sme sl mot, calc, rr cal incl, abnt fos
frag, occ bent, occ chk

MRL: m to dkgy, sbblky to sbply, mod frm, rthy,
stri tex, sme sl mot, calc, rr cal incl, abnt fos
frag, occ bent, occ chk

MRL: m to dkgy, sbblky to sbply, mod frm, rthy,
stri tex, sme sl mot, calc, rr cal incl, occ fos
frag, scat bent, occ chk

MRL: m to dkgy, sbblky to sbply, mod frm, rthy,
stri tex, sme mot, calc, rr cal incl, abnt fos frag,
occ bent, occ chk

MRL: m to dkgy, s
stri tex, sme sl mct
frag, scat bent, occ

MD: 9,600'

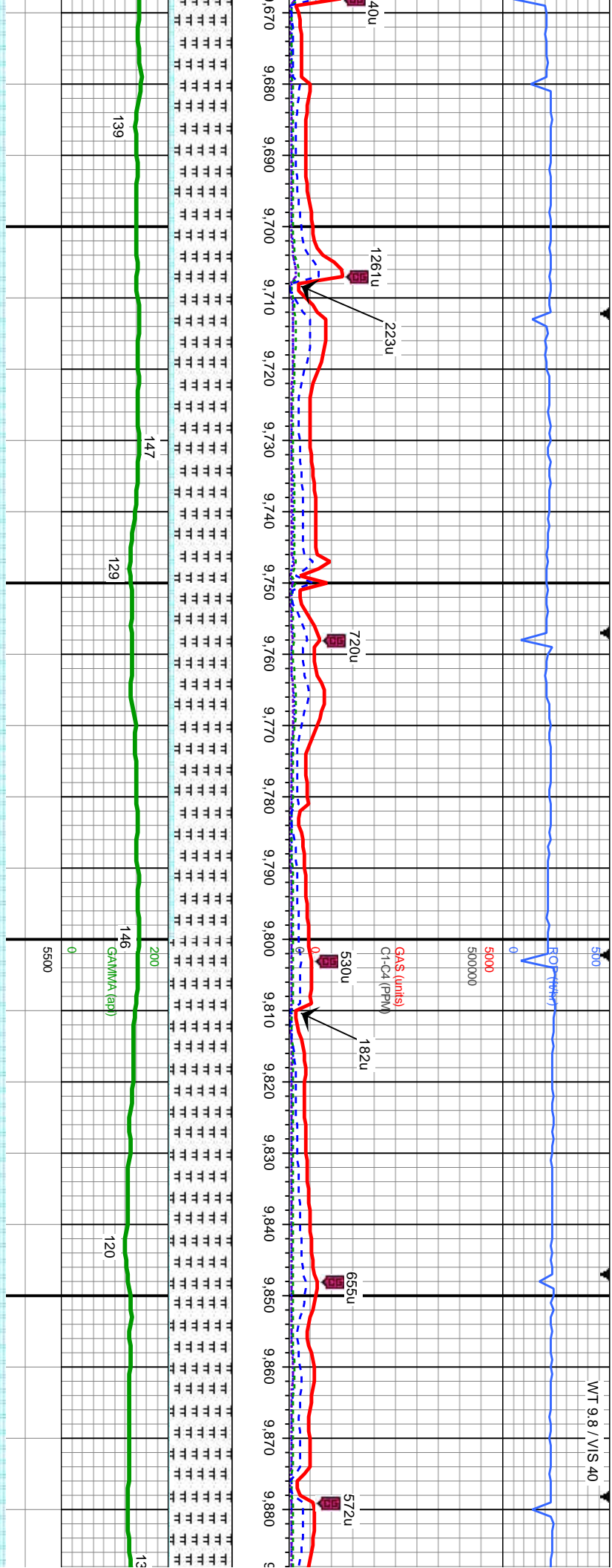
TVD: 5,544.23'

INC: 89.72°

AZM: 357.02°

TVD (ft)

5700



MD: 9.690'
 TVD: 5.544.58'
 INC: 89.83°
 AZM: 356.56°

MRL: m to dkgy, sbblky to sbply, mod frm, rthy,
 stri tex, sme sl mot, calc, rr cal incl, occ fos
 frag, scat bent, occ chk

MD: 9.780'
 TVD: 5.544.94'
 INC: 89.72°
 AZM: 356.77°

MRL: m to dkgy, sbblky to sbply, mod frm, rthy,
 stri tex, sme sl mot, gt, calc, occ fos frag, occ bent,
 occ chk

MD: 9.873'
 TVD: 5.545.44'
 INC: 89.66°
 AZM: 357.3°

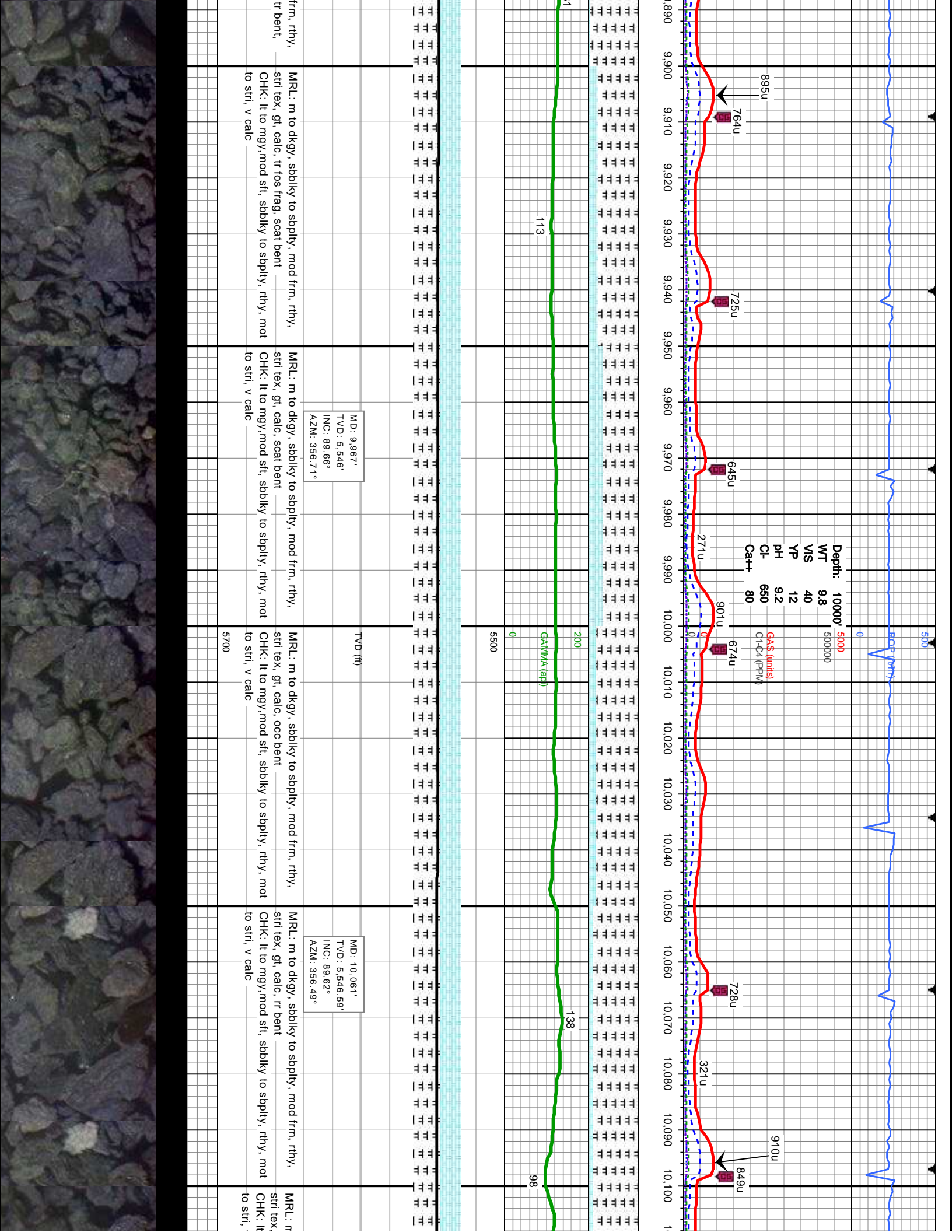
MRL: m to dkgy, sbblky to sbply, mod
 stri tex, sme mot, gt, calc, occ fos frag,
 occ chk

TVD (ft)

5700

5500





MR.L: m to dkgy, sbblky to sblpy, mod frm, rthy,
 stri tex: gt, calc, tr fos frag, scat bent
 CHK: It to mgy, mod sft, sblky to sblpy, rthy, mot
 to stri, v calc

MR.L: m to dkgy, sbblky to sblpy, mod frm, rthy,
 stri tex: gt, calc, scat bent
 CHK: It to mgy, mod sft, sblky to sblpy, rthy, mot
 to stri, v calc

MR.L: m to dkgy, sbblky to sblpy, mod frm, rthy,
 stri tex: gt, calc, occ bent
 CHK: It to mgy, mod sft, sblky to sblpy, rthy, mot
 to stri, v calc

MR.L: m to dkgy, sbblky to sblpy, mod frm, rthy,
 stri tex: gt, calc, rr bent
 CHK: It to mgy, mod sft, sblky to sblpy, rthy, mot
 to stri, v calc

MR.L: r
 stri tex:
 CHK: It

MD: 9.967'
 TVD: 5.546'
 INC: 89.66°
 AZM: 356.71°

MD: 10.061'
 TVD: 5.546.59'
 INC: 89.62°
 AZM: 356.49°

TVD (ft)

113

GAMMA (cp)

200

138

98

Depth: 10000'
 WT 9.8
 VIS 40
 YP 12
 pH 9.2
 Cl- 650
 Ca++ 80

GAS (units)
 C1-C4 (PPM)

895u
 764u

725u

645u

271u

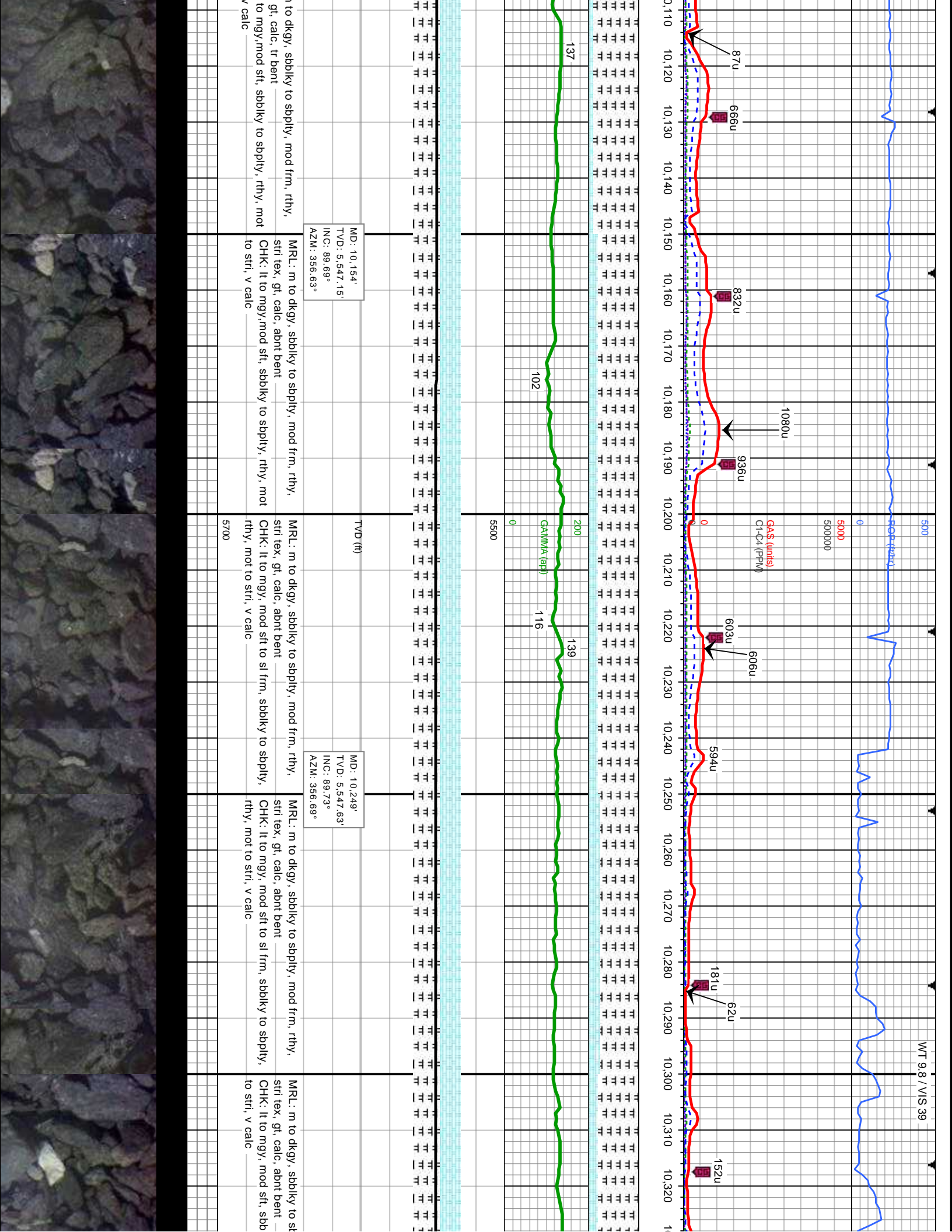
901u

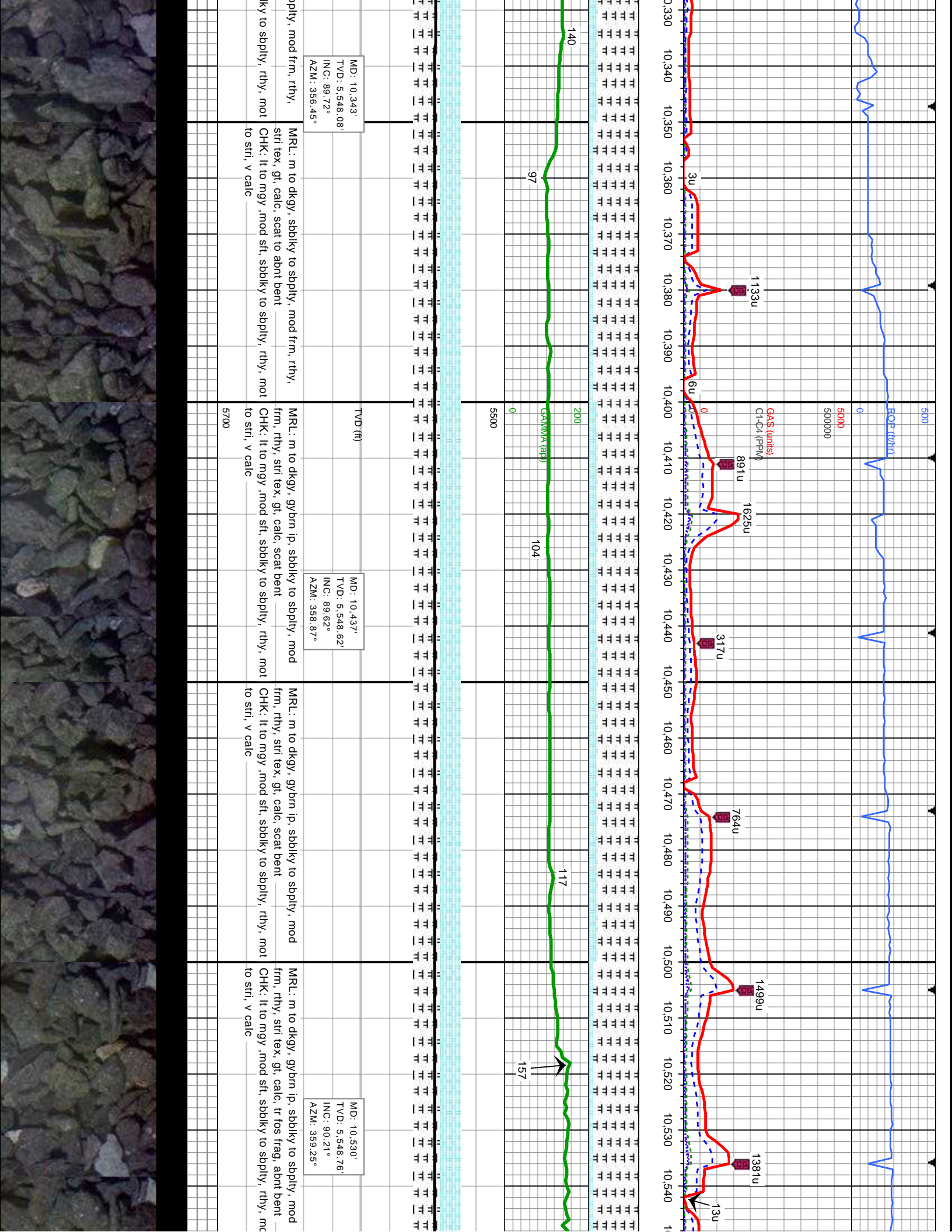
674u

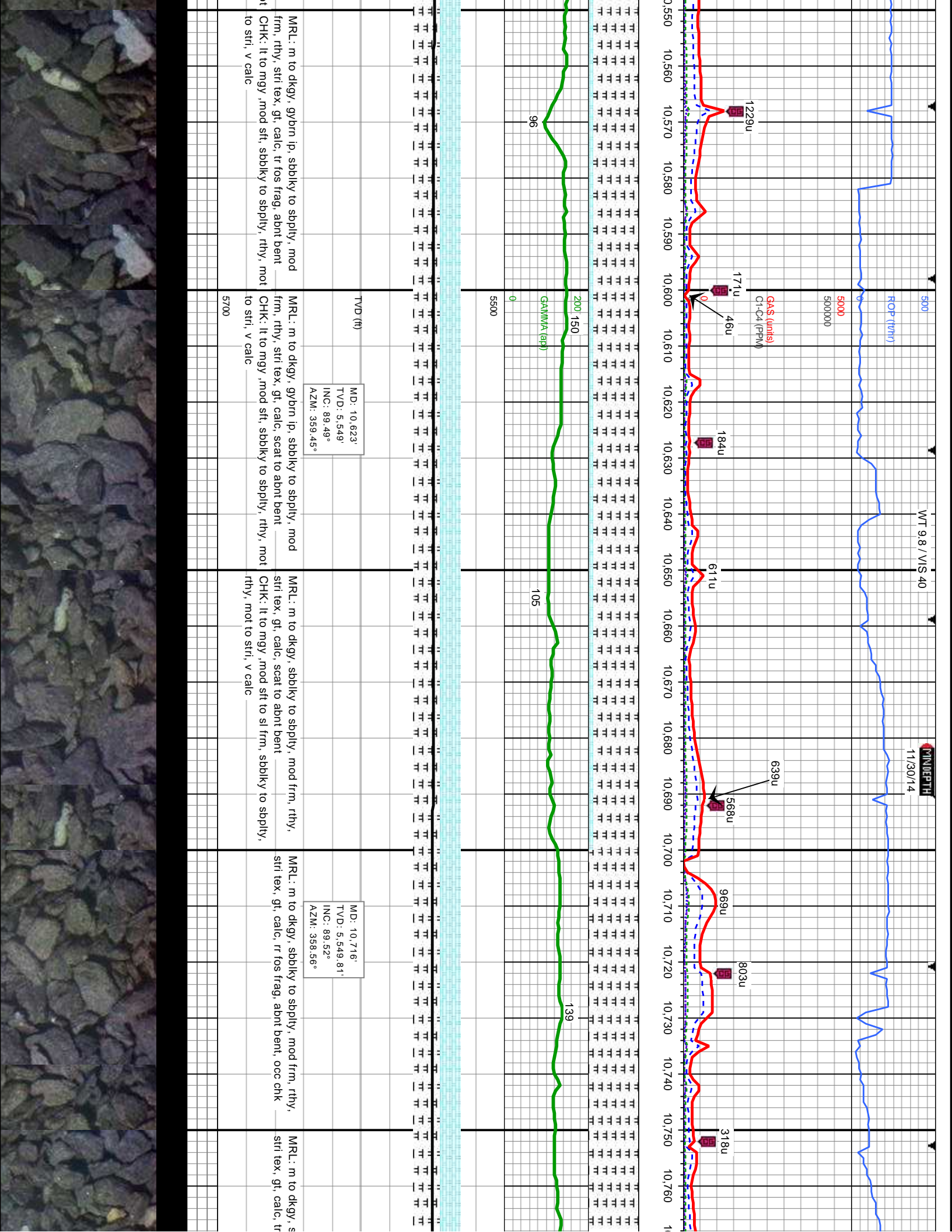
728u

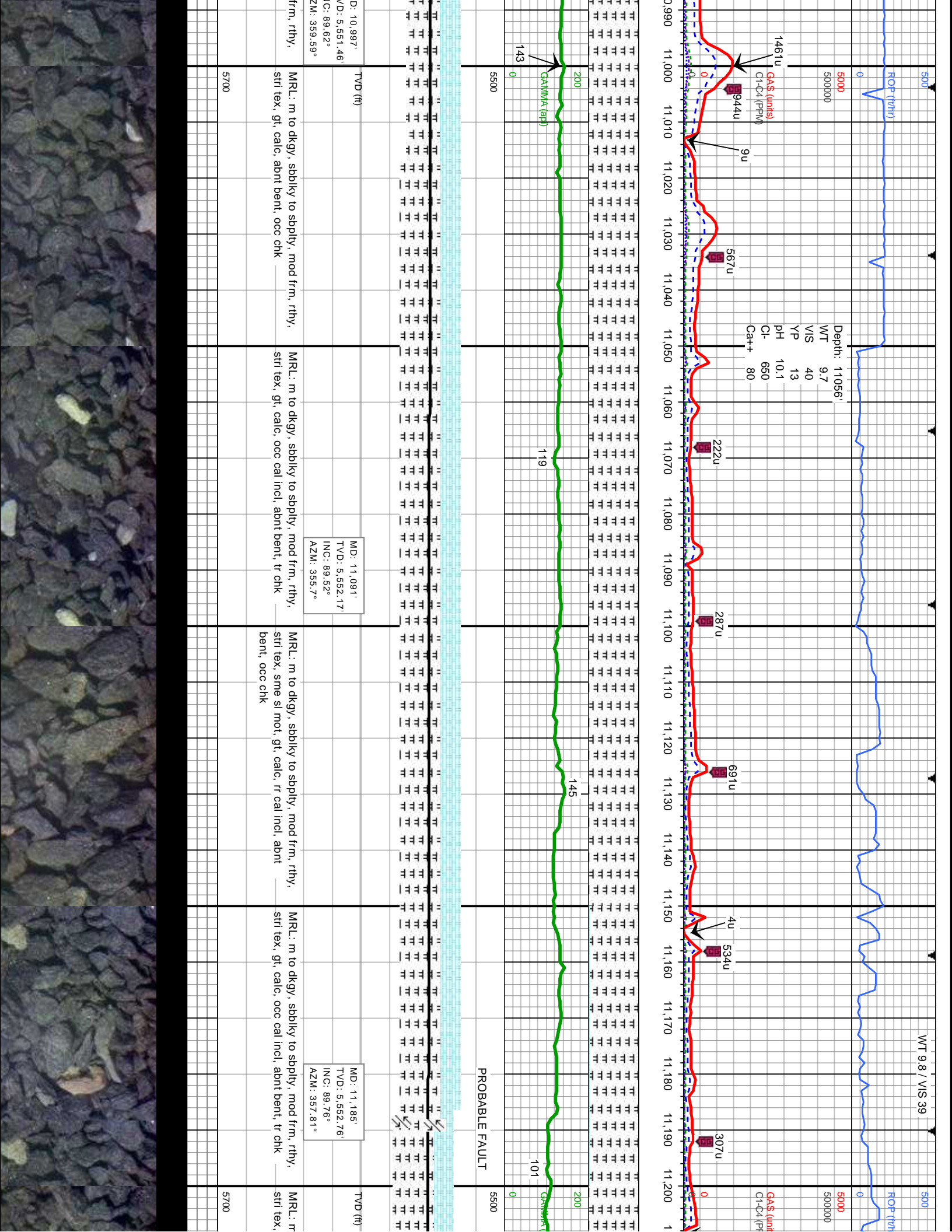
321u

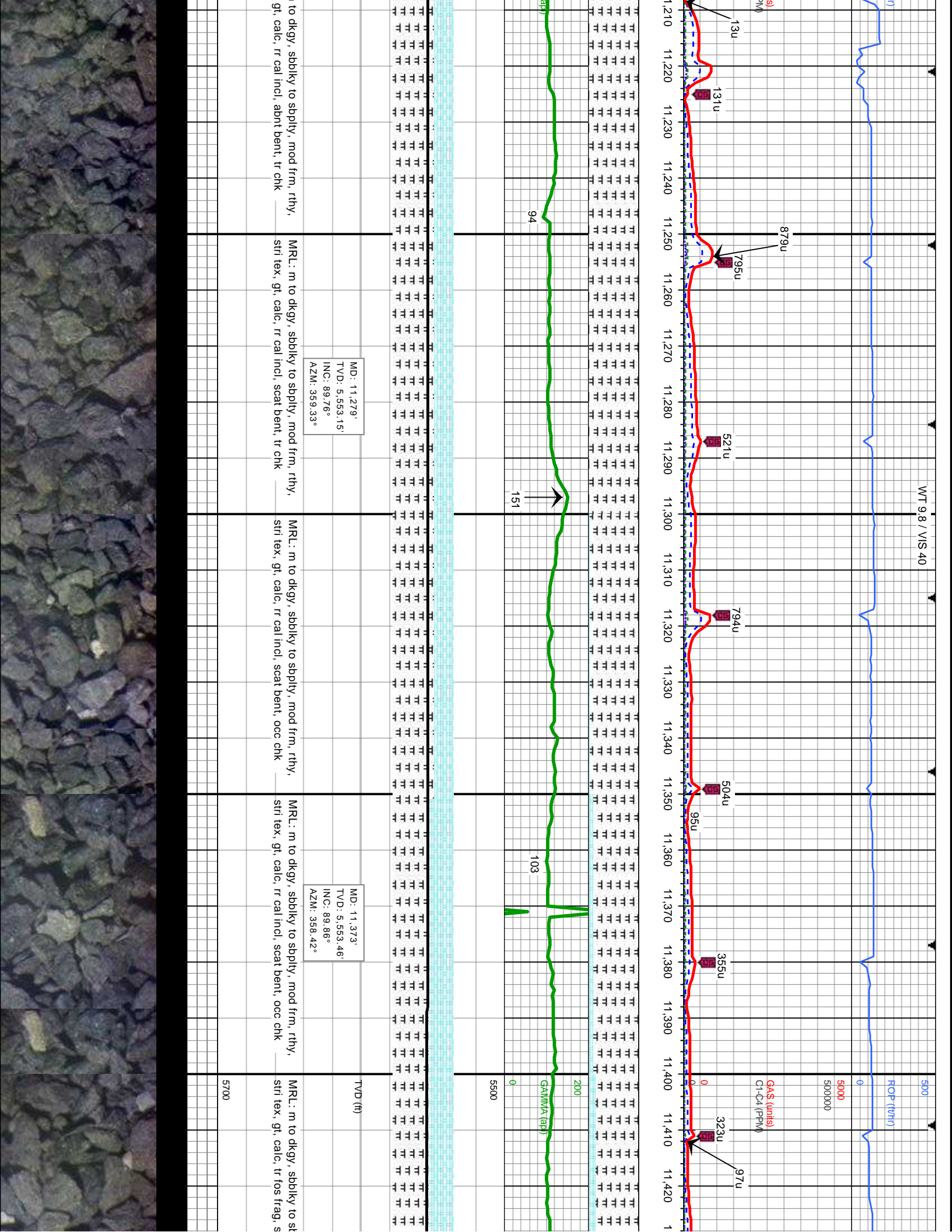
910u
 849u

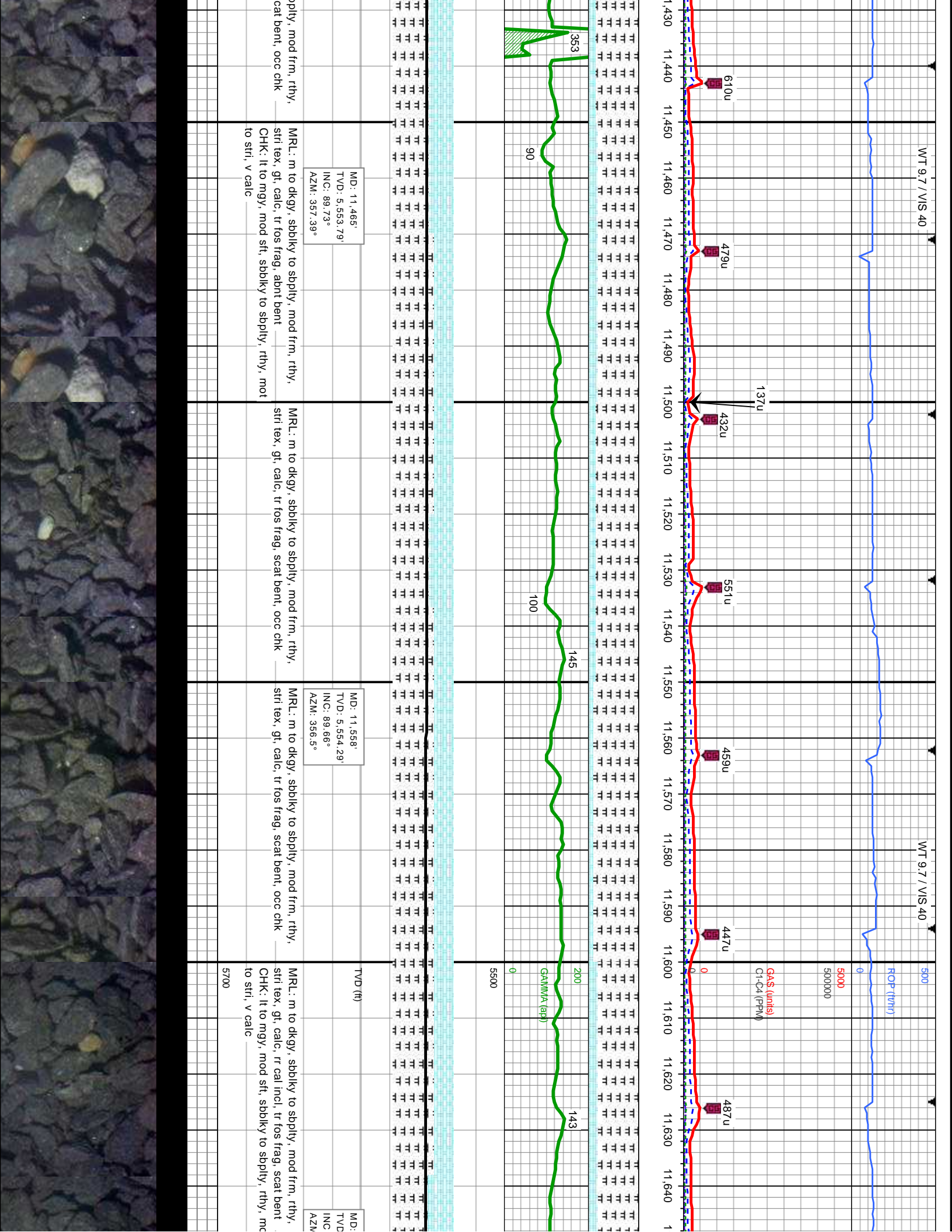












WT 9.7 / VIS 40

WT 9.7 / VIS 40

ROP (ft/hr)

GAS (units)

C1-C4 (PPM)

MD: 11,465'
 TVD: 5,553.79'
 INC: 89.73°
 AZM: 357.39°

MD: 11,558'
 TVD: 5,554.29'
 INC: 89.66°
 AZM: 356.5°

TVD (ft)

MD:
 TVD:
 INC:
 AZM:

MRSL: m to dkgy, sbblky to sbply, mod frm, rthy,
 stri tex: gt, calc, tr fos frag, abnt bent
 CHK: It to mgy, mod sti, sbblky to sbply, rthy, mot
 to stri, v calc

MRSL: m to dkgy, sbblky to sbply, mod frm, rthy,
 stri tex: gt, calc, tr fos frag, scat bent, occ chk

MRSL: m to dkgy, sbblky to sbply, mod frm, rthy,
 stri tex: gt, calc, tr fos frag, scat bent, occ chk

MRSL: m to dkgy, sbblky to sbply, mod frm, rthy,
 stri tex: gt, calc, tr cal incl, tr fos frag, scat bent
 CHK: It to mgy, mod sti, sbblky to sbply, rthy, mc
 to stri, v calc

5700

5500

200

GAMMA (API)

0

143

145

100

90

353

610u

479u

432u

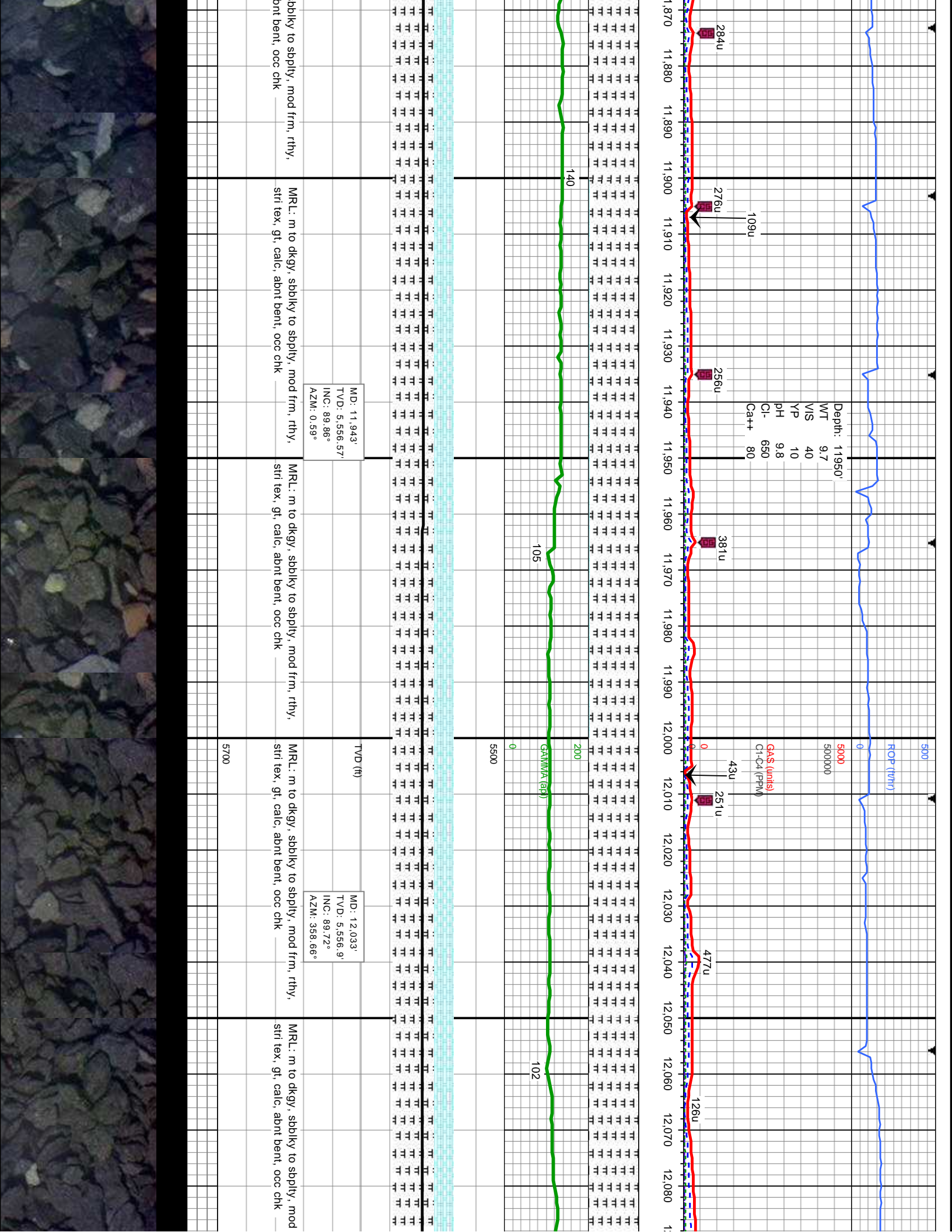
551u

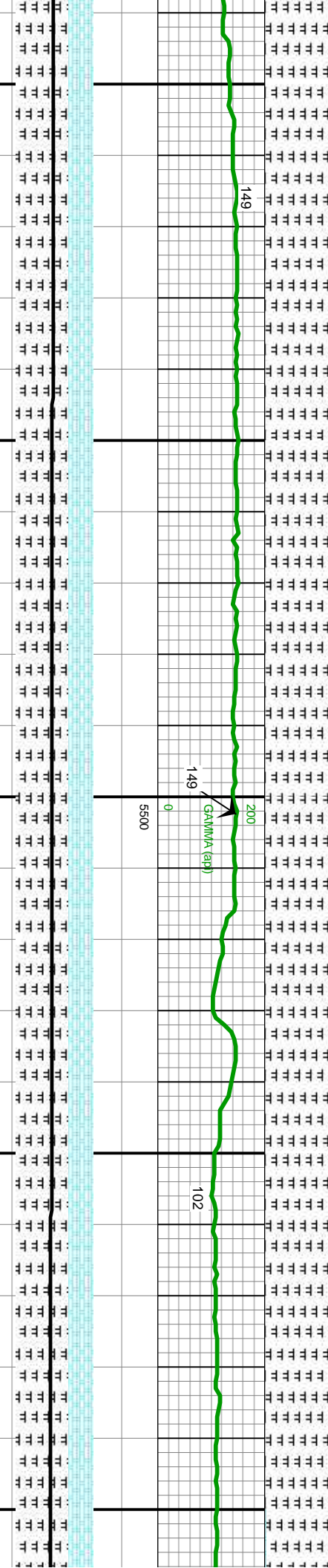
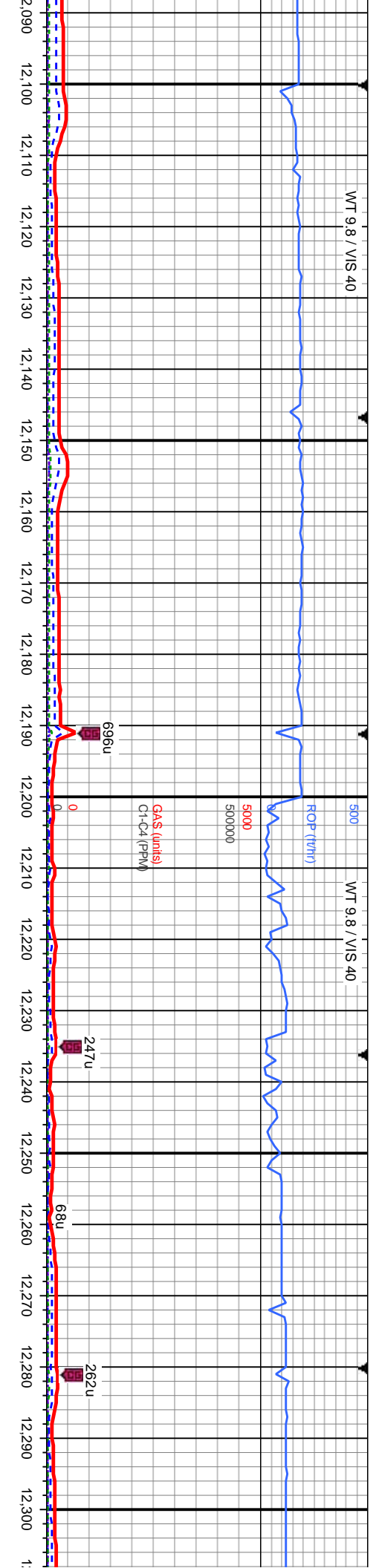
459u

447u

487u

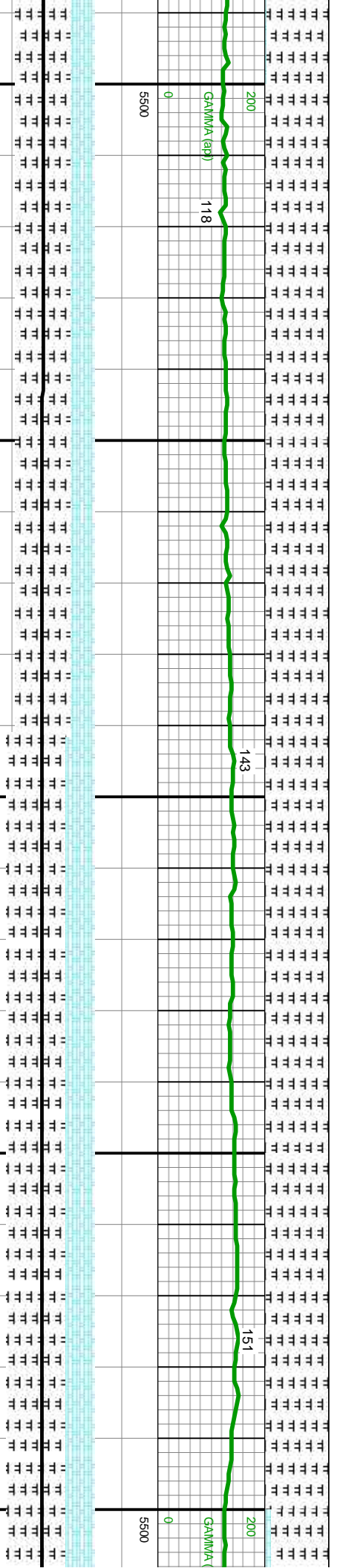
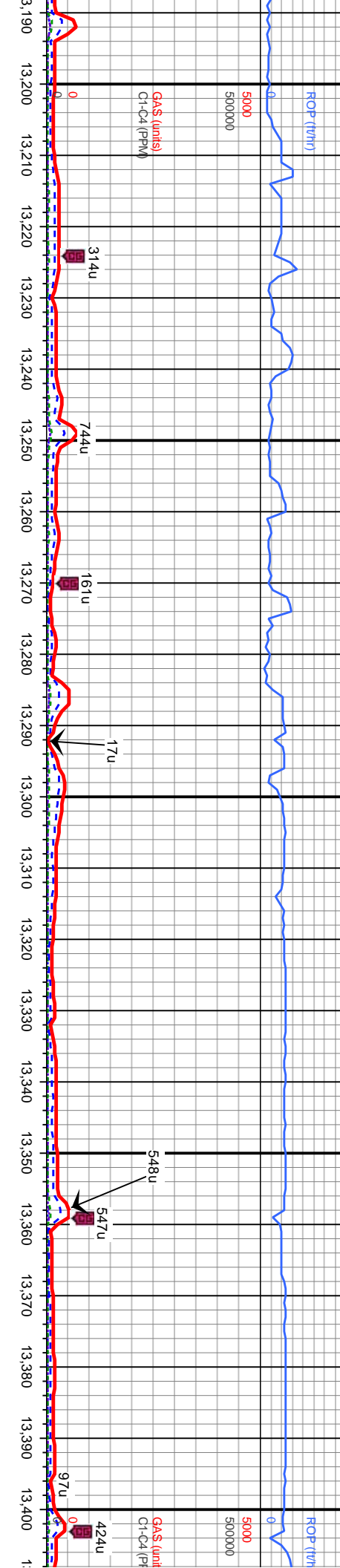
137u





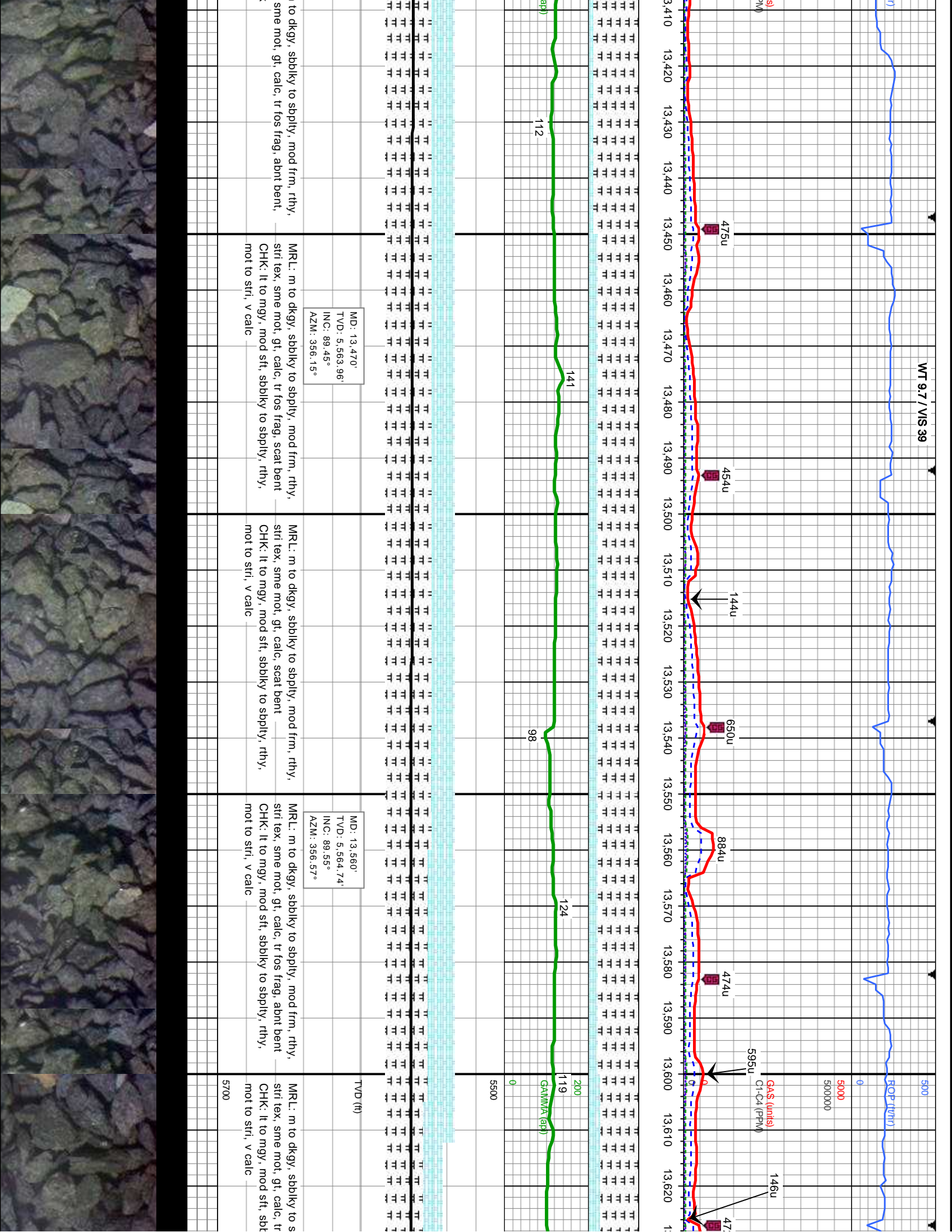
MD: 12.123° TVD: 5,557.28' INC: 89.79° AZM: 356.74°	MRL: m to dkgy, sbblky to sbply, mod frm, rthy, stri tex, gt, calc, abnt bent, occ chk	MD: 12.213° TVD: 5,557.88' INC: 89.45° AZM: 355.28°	MRL: m to dkgy, sbblky to sbply, mod frm, rthy, stri tex, gt, calc, scat bent, occ chk	MD: 12.302° TVD: 5,558.4° INC: 89.73° AZM: 356.38°	MRL: r to dkgy, sbblky to sbply, mod frm, rthy, stri tex,
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MD: 13.201'	MD: 13.291'	MD: 13.380'
TVD: 5.562.83'	TVD: 5.562.96'	TVD: 5.563.28'
INC: 89.93°	INC: 89.9°	INC: 89.69°
AZM: 358.44°	AZM: 358.66°	AZM: 356.99°





WT 9.7 / VIS 39

ROP (ft/hr)

GAS (units)
C1-C4 (PPM)

5000

5000000

595u

146u

47

474u

475u

884u

650u

144u

454u

112

141

98

124

200

119

GAMMA (gR)

5500

5700

TVD (ft)

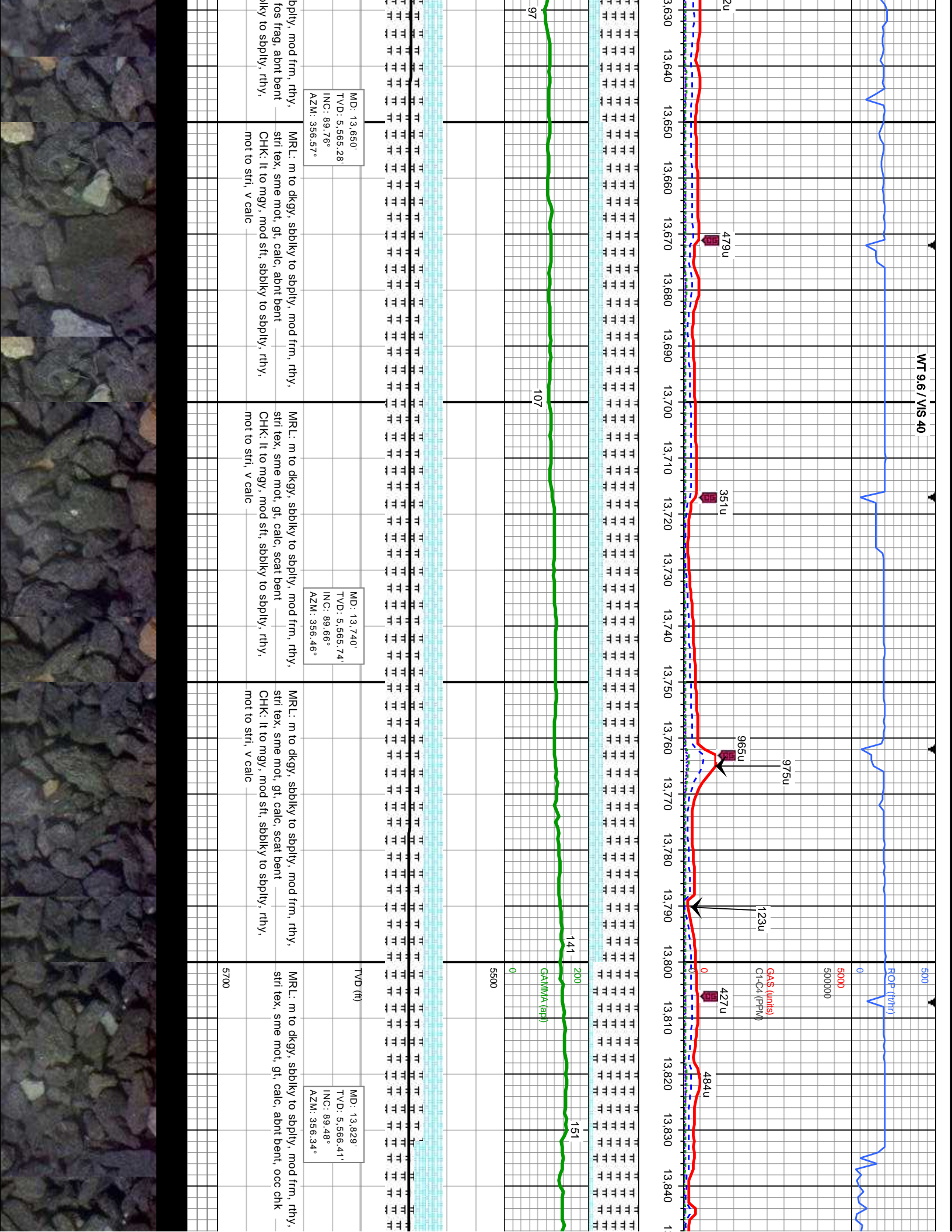
MD: 13,470'
TVD: 5,563.96'
INC: 89.45°
AZM: 356.15°

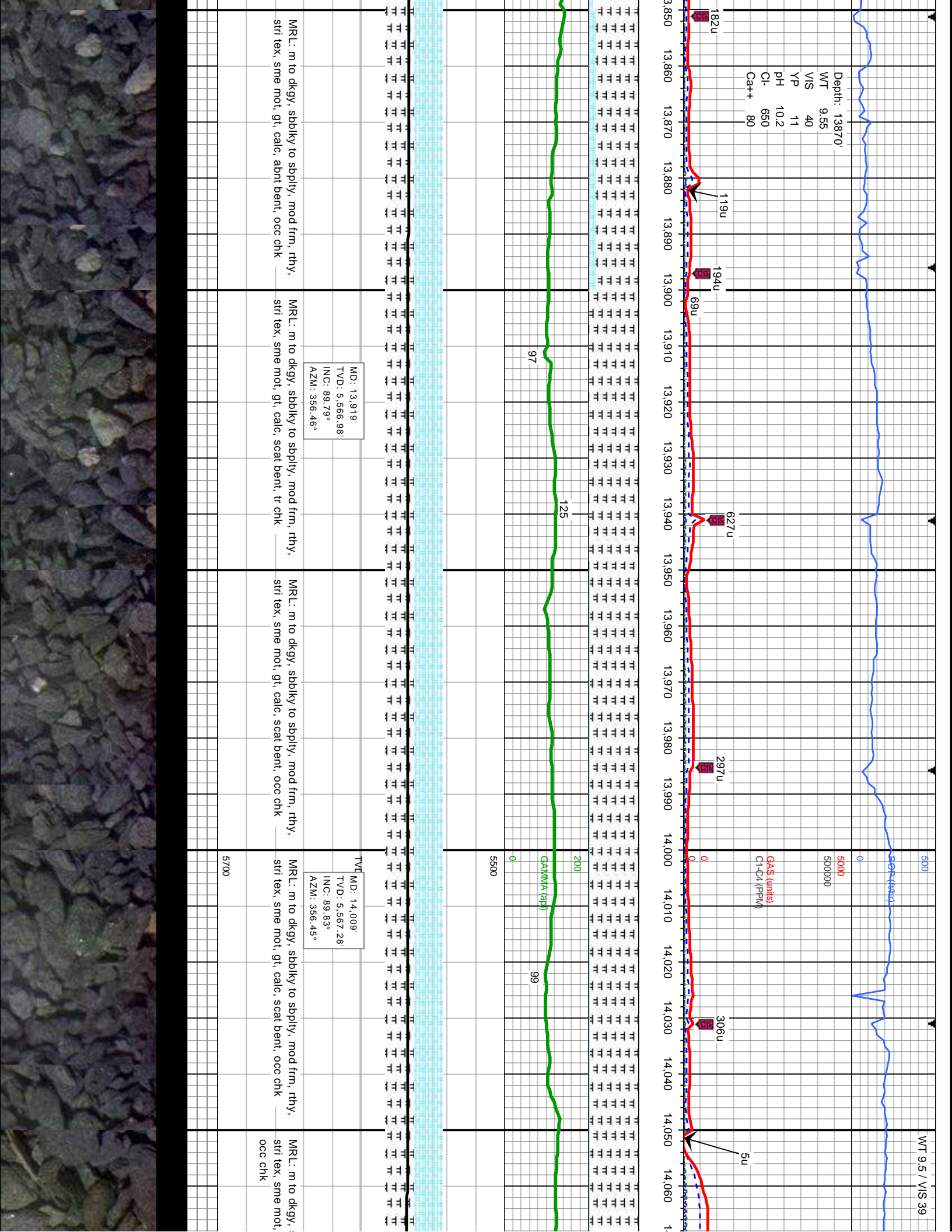
MRL: m to dkgy, sbblky to sbply, mod frm, rthy,
stri tex, sme mot, gt, calc, tr fos frag, scat bent
CHK: lt to mgy, mod sft, sbblky to sbply, rthy,
mot to strf, v calc

MD: 13,560'
TVD: 5,564.74'
INC: 89.55°
AZM: 356.57°

MRL: m to dkgy, sbblky to sbply, mod frm, rthy,
stri tex, sme mot, gt, calc, tr fos frag, abnt bent
CHK: lt to mgy, mod sft, sbblky to sbply, rthy,
mot to strf, v calc

to dkgy, sbblky to sbply, mod frm, rthy,
sme mot, gt, calc, tr fos frag, abnt bent,





Depth: 13870'
 WT 9.55
 VIS 40
 YP 11
 PH 10.2
 Cl- 650
 Ca++ 80

GAs (units)
 C1-C4 (PPM)

GAMMA (cp)

MD: 13,919'
 TVD: 5,566.98'
 INC: 88.79°
 AZM: 356.46°

TVD
 MD: 14,009'
 TVD: 5,567.28'
 INC: 89.83°
 AZM: 356.45°

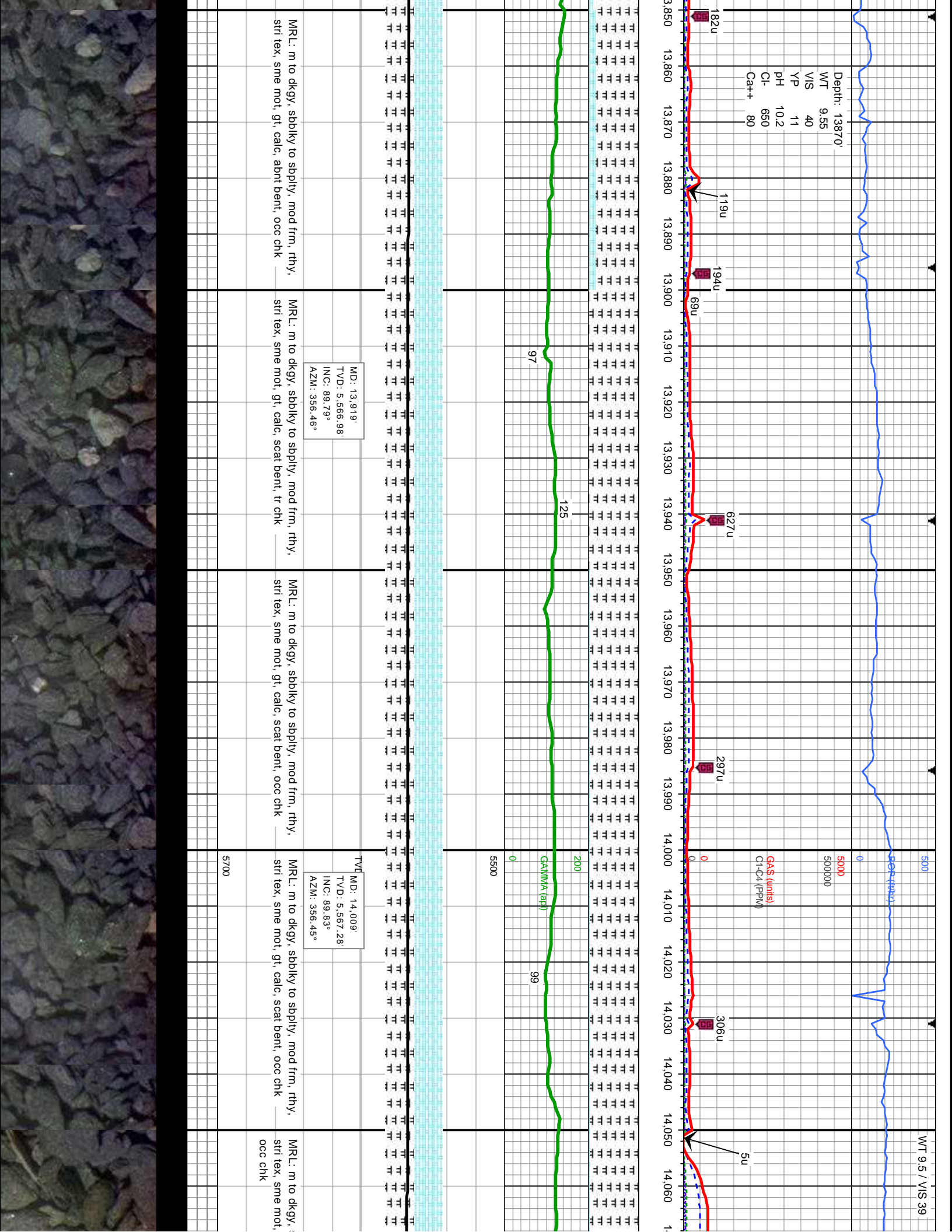
MRL: m to dkgy, sbblky to sbply, mod frm, rthy,
 stri tex, sme mot, gt, calc, abnt bent, occ chk

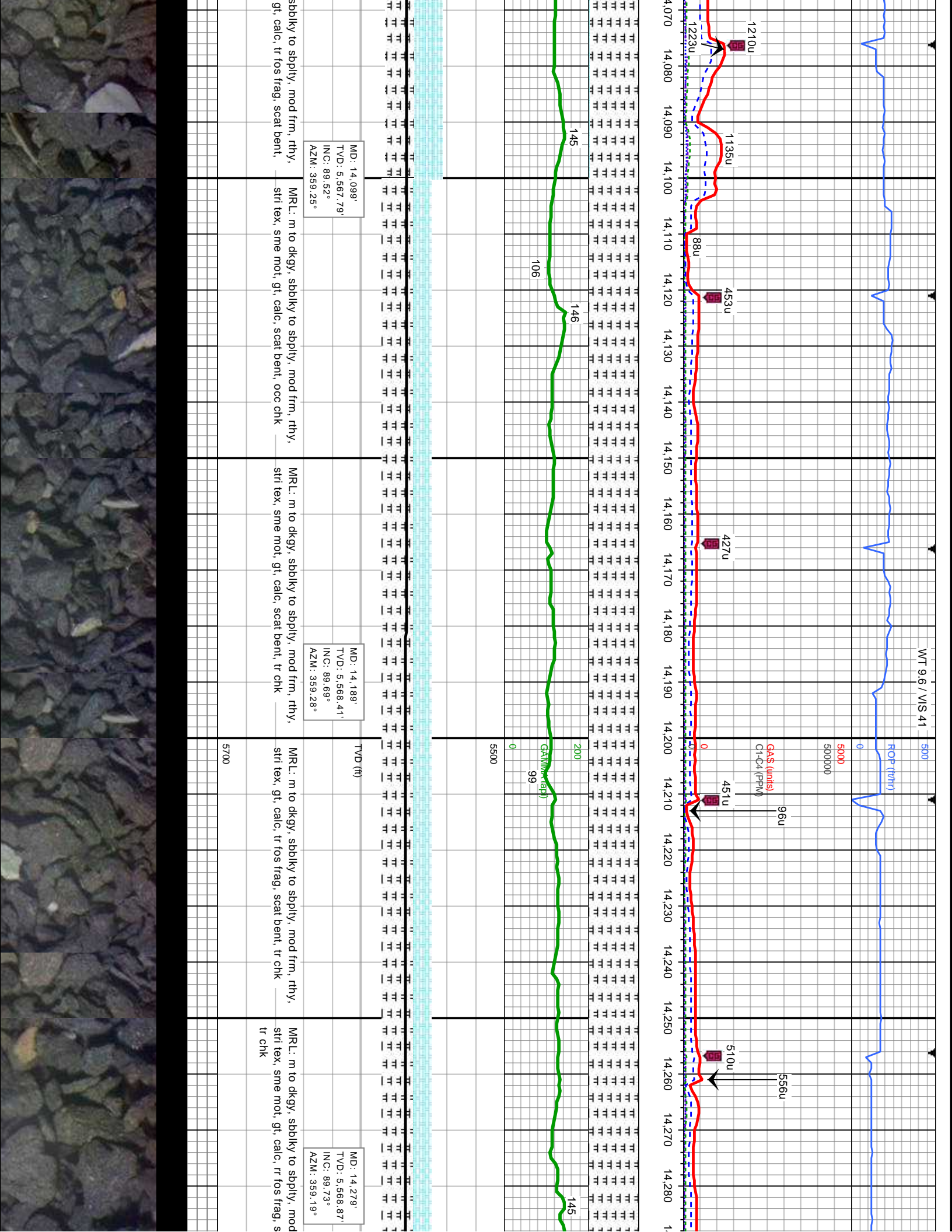
MRL: m to dkgy, sbblky to sbply, mod frm, rthy,
 stri tex, sme mot, gt, calc, scat bent, tr chk

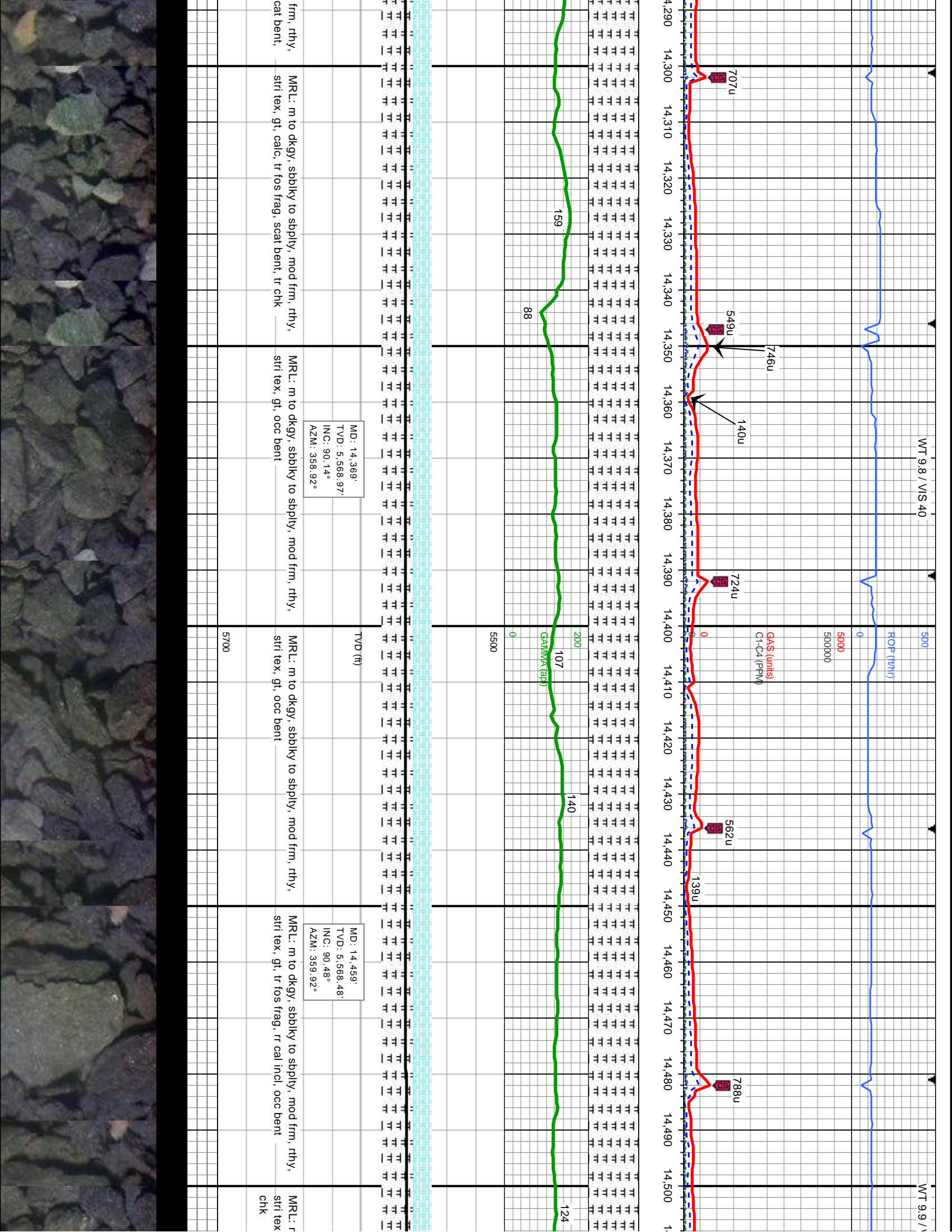
MRL: m to dkgy, sbblky to sbply, mod frm, rthy,
 stri tex, sme mot, gt, calc, scat bent, occ chk

MRL: m to dkgy, sbblky to sbply, mod frm, rthy,
 stri tex, sme mot, gt, calc, scat bent, occ chk

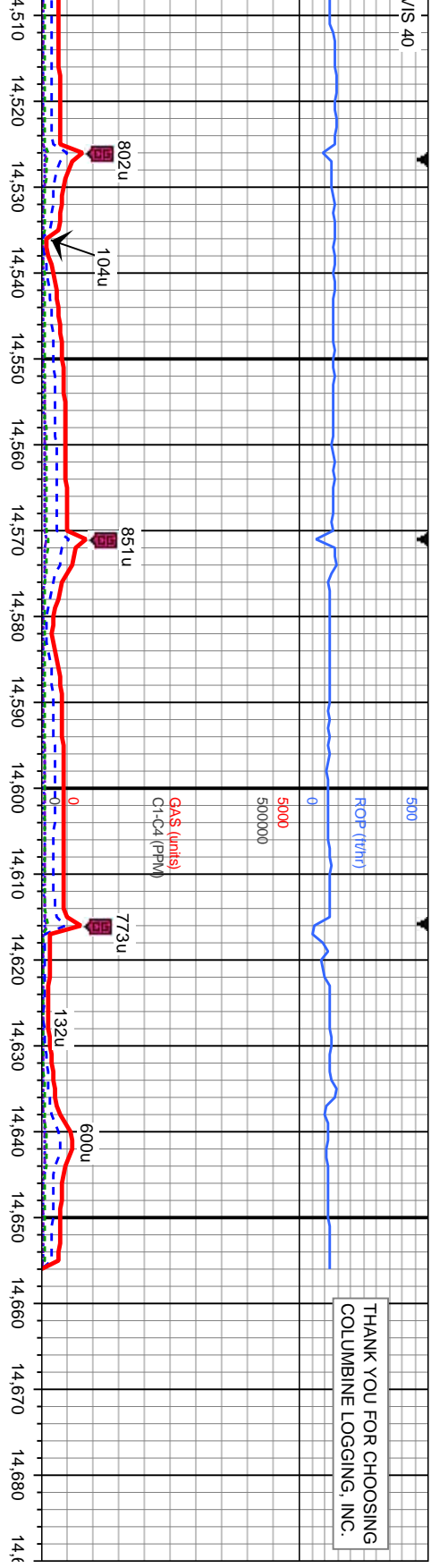
MRL: m to dkgy, sbblky to sbply, mod frm, rthy,
 stri tex, sme mot, gt, calc, scat bent, occ chk







THANK YOU FOR CHOOSING
COLUMBINE LOGGING, INC.



200
GAMMA (cp)
113

TD @ MD 14656
22:38 MST, 12/1/14

Bit Data

Bit #: 1
Depth In: 5.880'
Depth Out: 14.656'
Hours: 86.5 hrs
Avg Ft/Hr: 101.5 /hr

MD: 14,548'
TVD: 5,567.95'
INC: 90.21°
AZM: 358.99°

MD: 14,589'
TVD: 5,567.78'
INC: 90.24°
AZM: 359.6°

PROJECTION TO BIT

MFL: m to dkgy, sbblky to sbply, mod frm, rthy,
stri tex, gt, tr fos frag, rr cal Incl, occ bent, tr

MRL: m to dkgy, sbblky to sbply, mod frm, rthy,
stri tex, gt, tr fos frag, rr bent

5700

