



Scale: 5' / 100'  
Measured Depth Log

Well Name SHERLEY G-4-9HC

Location Lat: 40.434325 Long: -104.675164

State COLORADO County WELD

Country USA Rig Number FRONTIER 10

API Number 05-123-40896 AFE # 40896

Region DJ BASIN Field WATTENBERG

Spud Date 3/11/2015 Drilling Completed 6/24/2015

Surface Coordinates Sec 4 T5N R65W  
SHL 546FNL, 712FWL

Bottom Hole Coordinates Planned Bottom Hole Location  
Sec: 9 Twp: 5N 65W  
BHL 470FSL, 1625FWL

Ground Elevation 4642' K.B. Elevation 4667'

Logged Interval 6000' To 16582' Total Depth 16582'

Formation CODELL

Type of Drilling Fluid LSND

Operator

Company Bayswater Exploration and Production LLC.  
Address 730 17th Street, Suite 610  
Denver, CO 80202

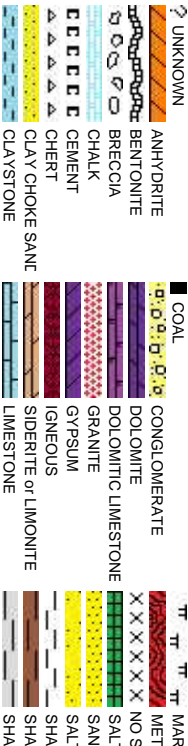
Geologist

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
	CHTLT
	COAL - THIN BEDS
	D DOLOMITIC
	F FELDSPAR
	FERRUGINOUS PELLET
	FERRUGINOUS
	GLAUCONITE
	G GYPSIFEROUS

### 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
	EVEN
	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

	CONNECTION (DOWN)
--	-------------------

### Porosity

	E EARTHY
	F FENESTRAL
	F FRACTURE

	INTERCRYSTALLINE
	INTEROOLITIC
	MOLDIC
	ORGANIC

	MN DEPTH (DOWN)
--	-----------------

	NORMAL FAULT
	OVERTURED STRATA
	REVERSE FAULT

	CASING
--	--------

	SIDEWALL CORE (LEFT)
	SLIDE
	SURVEY

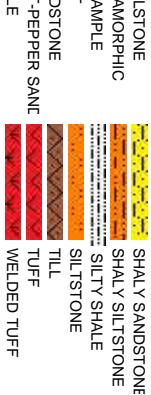
### Textures

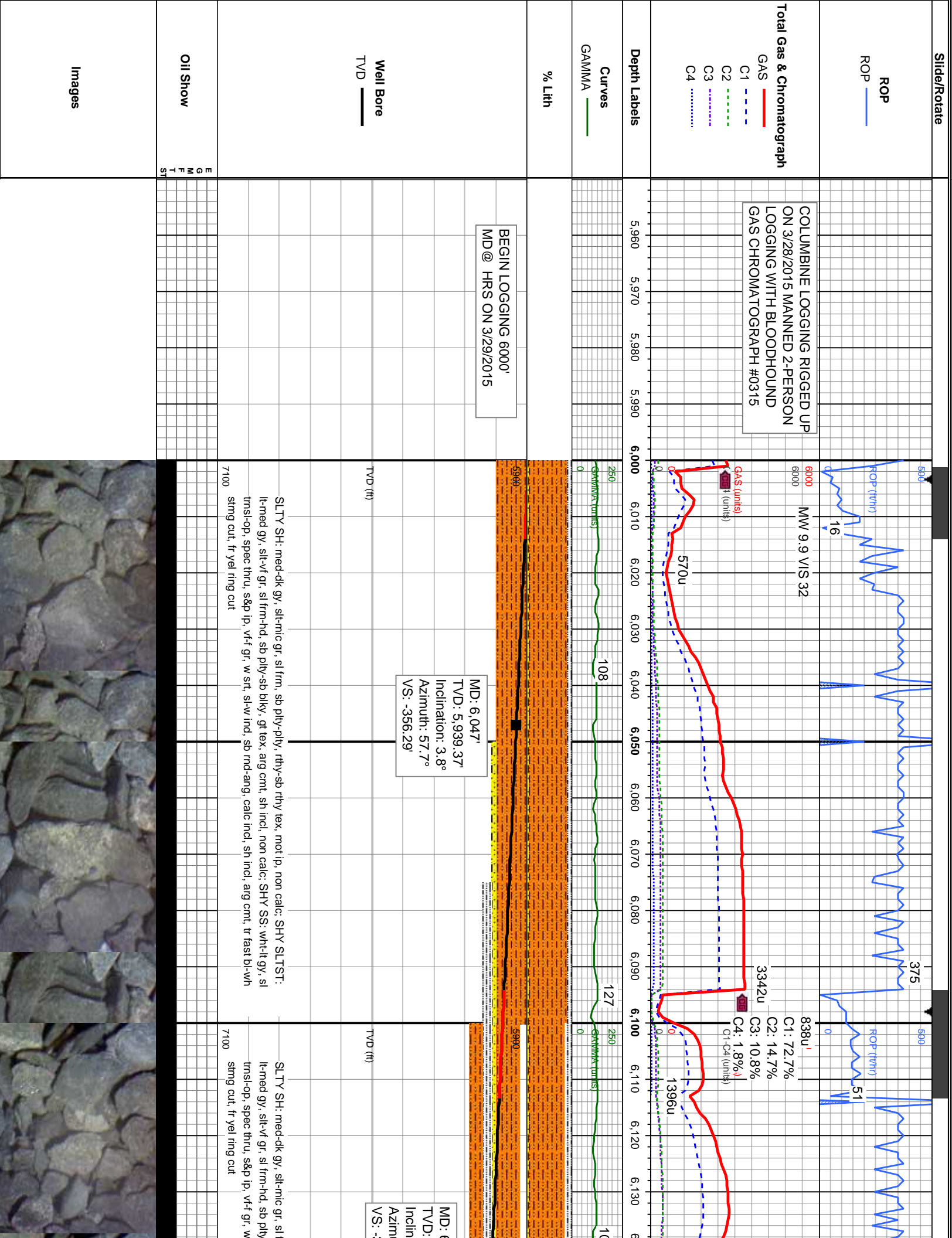
	B BOUNDSTONE
	CHALKY
	CRYPTOXLN

### Sorting

	M MODERATE
--	------------

	P POOR
	W WELL

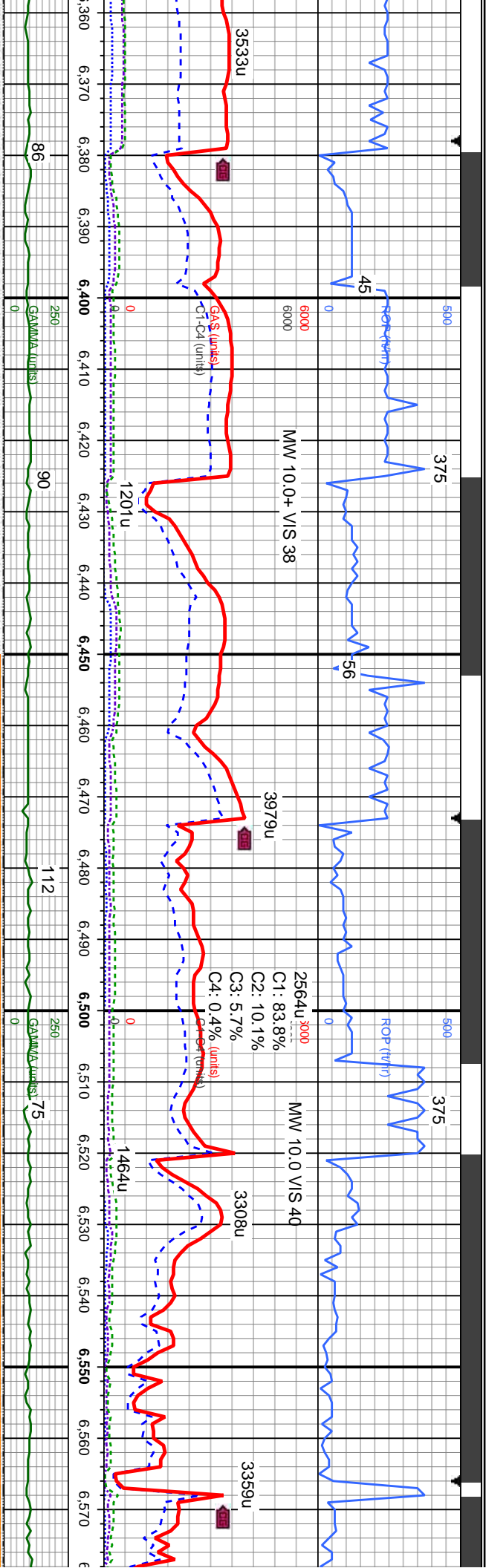












MD: 6,470'  
TVD: 6,362.13'  
Inclination: 3.8°  
Azimuth: 173°  
VS: -357.93'

MD: 6,516'  
TVD: 6,407.96'  
Inclination: 5.9°  
Azimuth: 183.7°  
VS: -354.07'

MD: 6,563'  
TVD: 6,454.62'  
Inclination: 8°  
Azimuth: 184.4°  
VS: -348.45'

MD: 6,375'  
TVD: 6,267.22'  
Inclination: 1.1°  
Azimuth: 92.9°  
VS: -361.4'

MD: 6,423'  
TVD: 6,315.2'  
Inclination: 2.4°  
Azimuth: 153.3°  
VS: -360.4'

SLTY SH: med-dk gy, slt-mic gr, sl frm, sb pty-ply, rthy-sb rthy tex, mot ip, non calc; SHY SLTST: lt-med gy, slt-vf gr, sl frm-hd, sb pty-sb blkly, gt tex, arg cnt, sh incl, non calc; SHY SS: wht-lt gy, sl trns-op, spec thru, s&p ip, vf-f gr, w srt, sl-w ind, sb md-ang, calc incl, sh incl, arg cnt, tr fast bl-wh string cut, fr yel ring cut

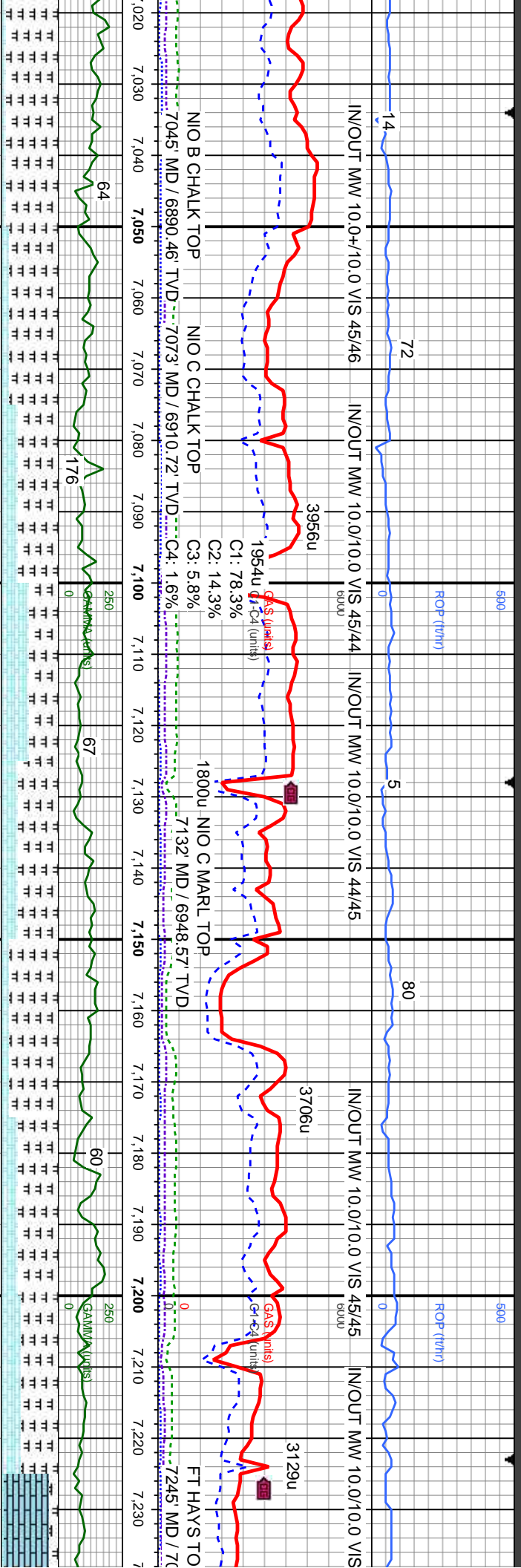












mod-dk gy, sl frm, pily-sb pily, rthy-gt tex, calc, CHK: lt-med gy, mot-str, mod sft, sb sm-rthy tex, v calc; mod fast difse, mod bl-wh mod fast sting cut, mod thk yel ring

5900MRST: med-dk gy, sl frm, pily-sb pily, rthy-gt tex, calc, CHK: lt-med gy, mot-str, mod sft, sb blk-y-sb pily, sm-rthy tex, v calc; mod fast difse, mod bl-wh mod fast sting cut, mod thk yel ring cut.

LMSST: wh-lt gy-cr xln, frm-hrd v calc, pily-sb pily, rthy-gt sft, sb blk-y-sb pily, mod fast difse, mo ring cut.

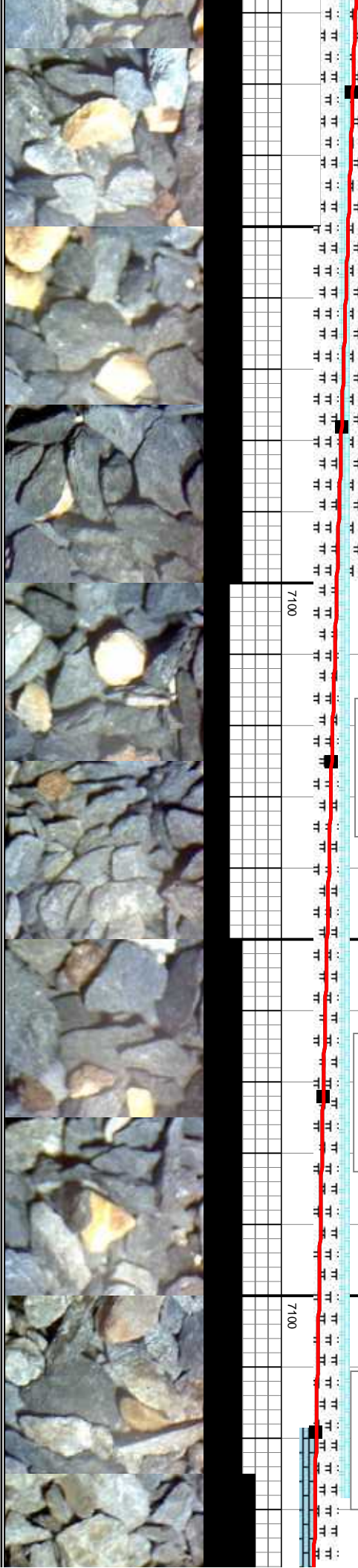
MD: 7,031'  
TVD: 6,880.25'  
Inclination: 40.6°  
Azimuth: 185°  
VS: -172.56'

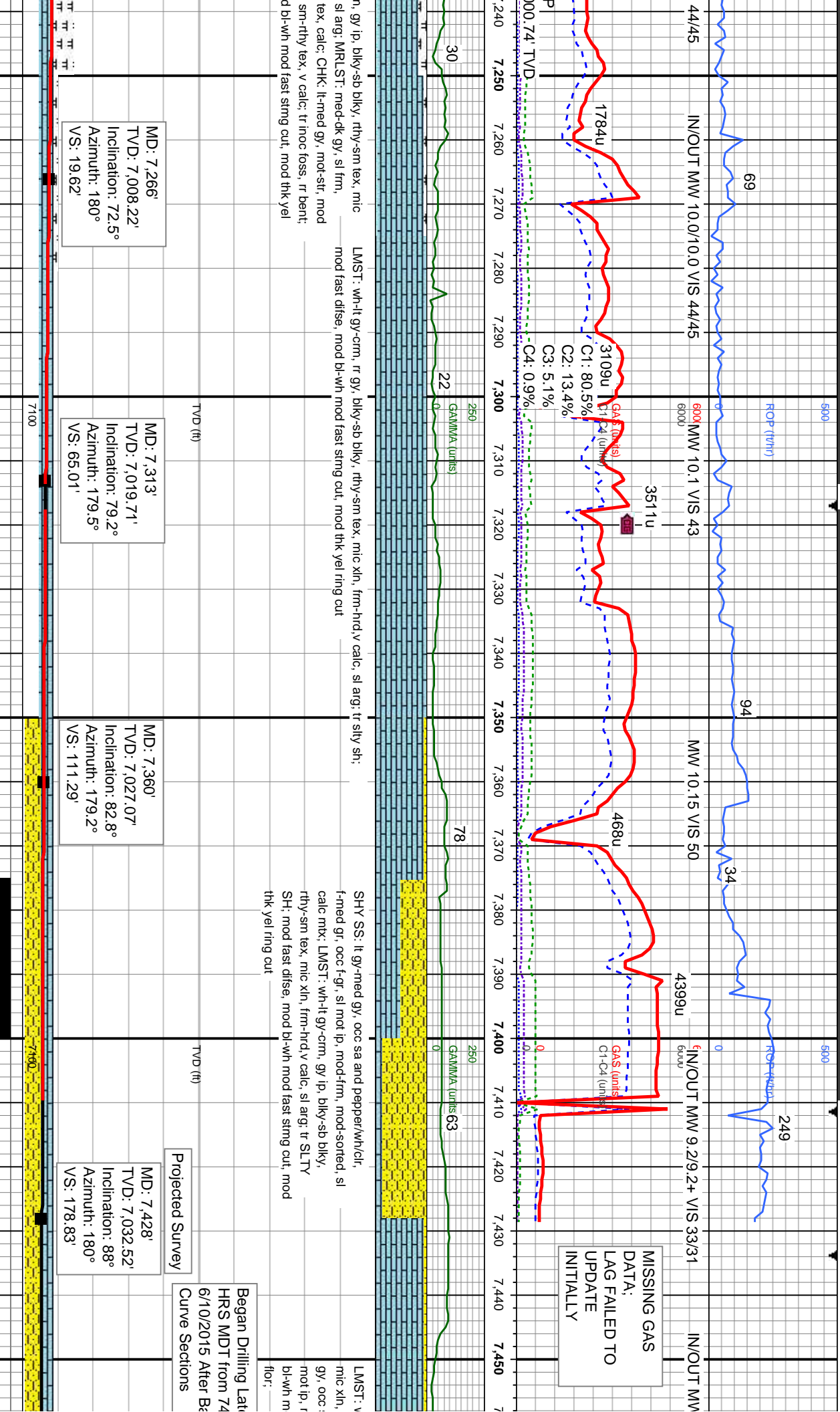
MD: 7,078'  
TVD: 6,914.28'  
Inclination: 46.6°  
Azimuth: 182.3°  
VS: -140.53'

MD: 7,125'  
TVD: 6,944.65'  
Inclination: 52.9°  
Azimuth: 181.6°  
VS: -104.94'

MD: 7,172'  
TVD: 6,970.76'  
Inclination: 59.6°  
Azimuth: 180°  
VS: -66.08'

MD: 7,219'  
TVD: 6,991.92'  
Inclination: 66.9°  
Azimuth: 179.7°  
VS: -24.29'

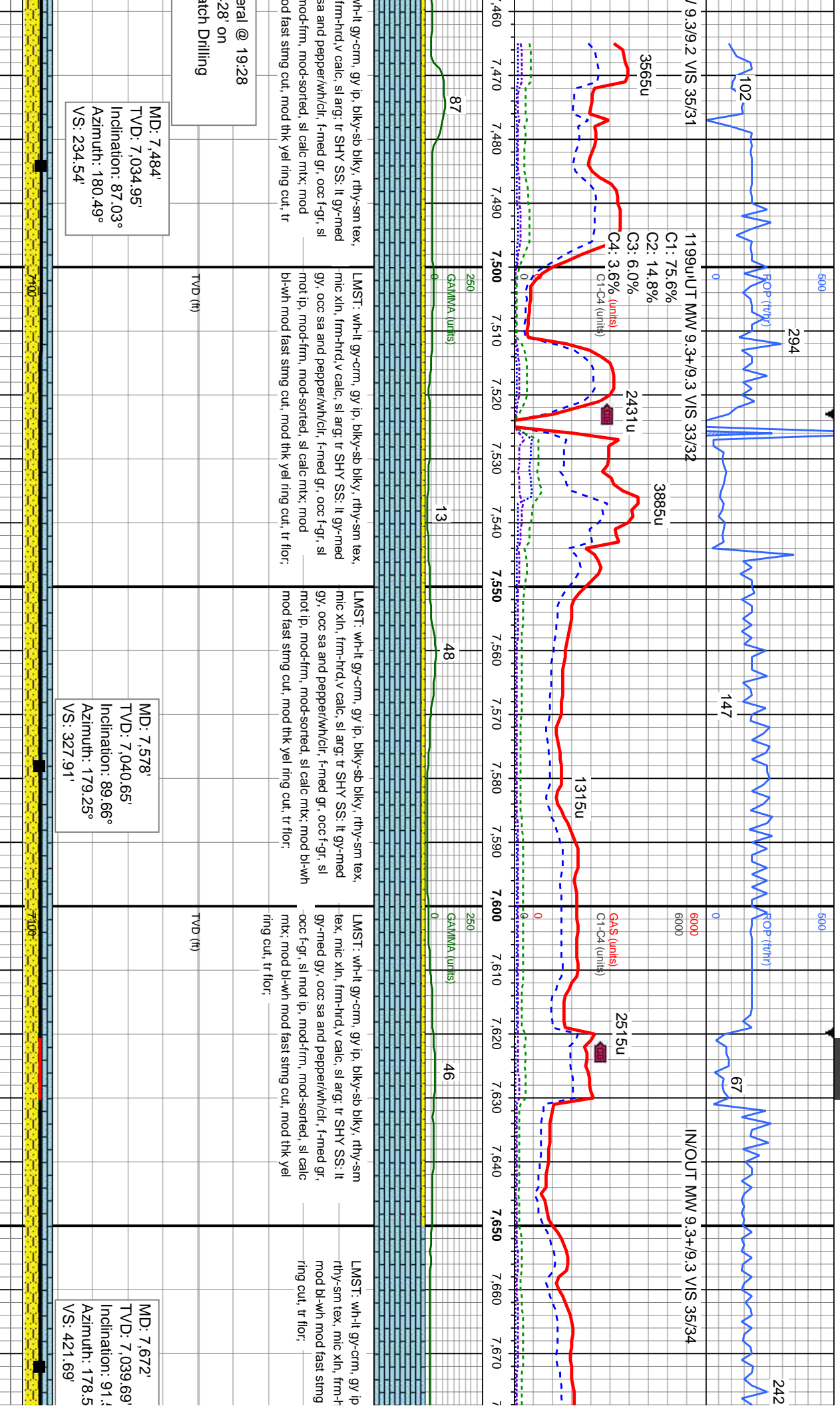




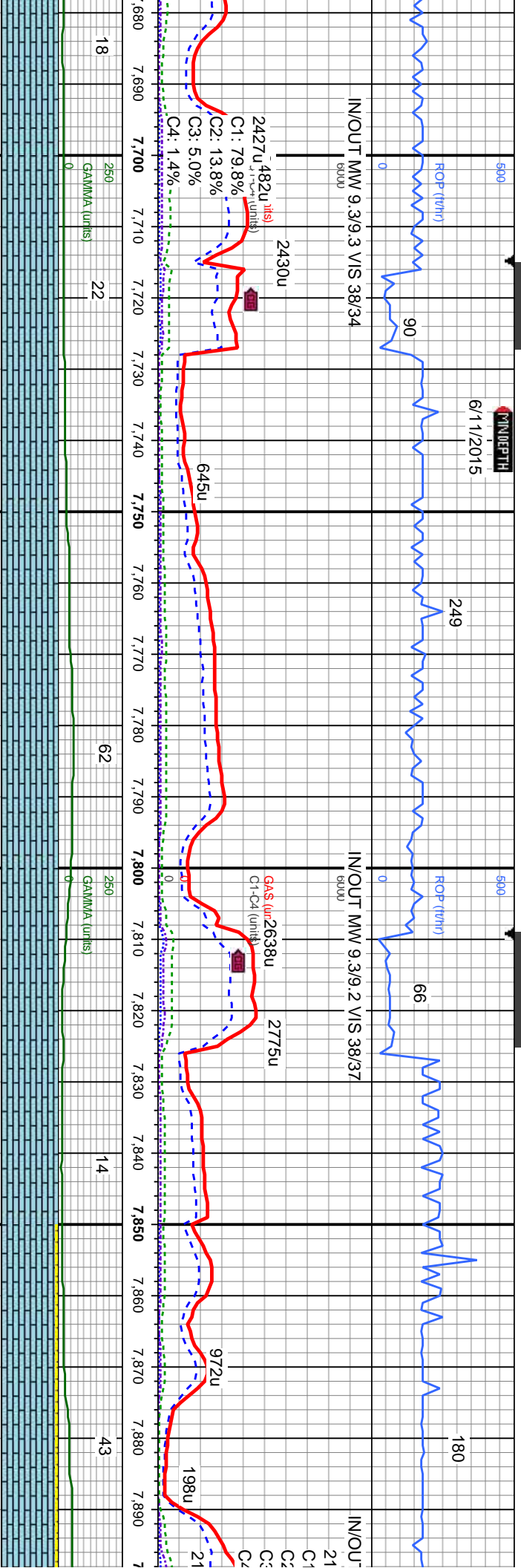
MISSING GAS  
DATA;  
LAG FAILED TO  
UPDATE  
INITIALLY

Began Drilling Late  
HRS MDT from 74  
6/10/2015 After Ba  
Curve Sections









cut, mod thk yel

LMST: whlt gy-crm, gy lp, bblky-sb bllky,  
rthysm tex, mic xln, frm-hrd, v calc, sl arg;  
mod bl-wh mod fast sting cut, mod thk yel  
ring cut, tr floor;

LMST: wh-It gy-crm, gy ip, bky-sb bky, rth-y-sm  
tex, mic xln, frm-hrd, v calc, sl arg; mod bl-wh  
mod fast smg cut, mod thk yel ring cut, tr flör;

3500 LMST: wh-it gy-crm, gy ip, bky-sb bky, rhy-sr  
tex, mic xln, frm-hrd, v calc, sl arg; mod bl-wh  
mod fast sting cut, mod thk yel ring cut, tr flor;

LMST: w-hl gy-cm, gy p, bky-sb bky, rthy-sm tex,  
mic xln, frm-hv calc, sl arg: tr SHY SS: tl gy-med  
gy, ooc sa and pepper/wth/clr, f-med gy, ooc f-gy, sl  
mot p, mod-frm, mod-sorted, sl calc mix; mod  
bl-wth mod fast sting cut, mod thk yel ring cut, tr floor;

[illegible]

MD: 7,861'  
TVD: 7,035.91'  
Inclination: 90.84°  
Azimuth: 180.86°  
VS: 610.15'

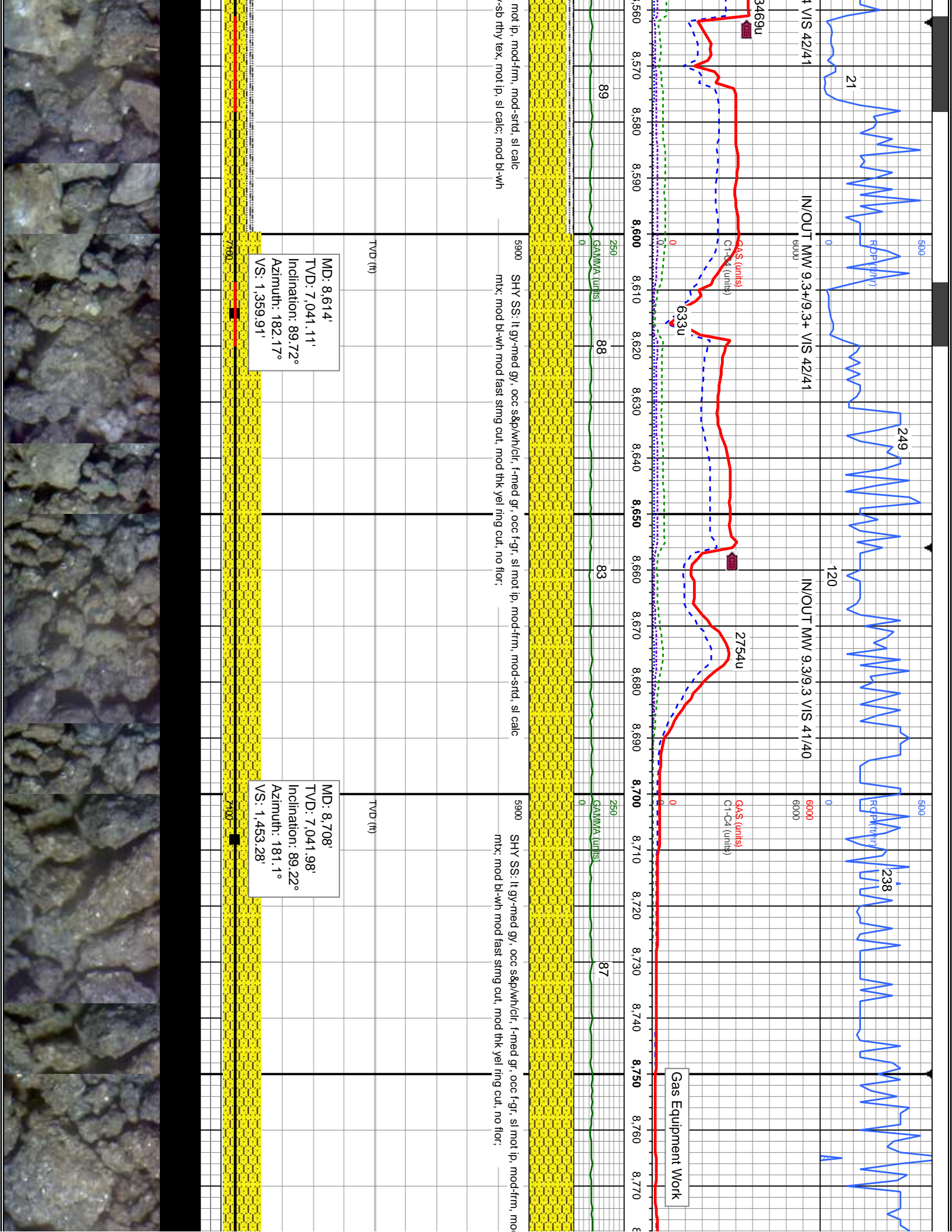




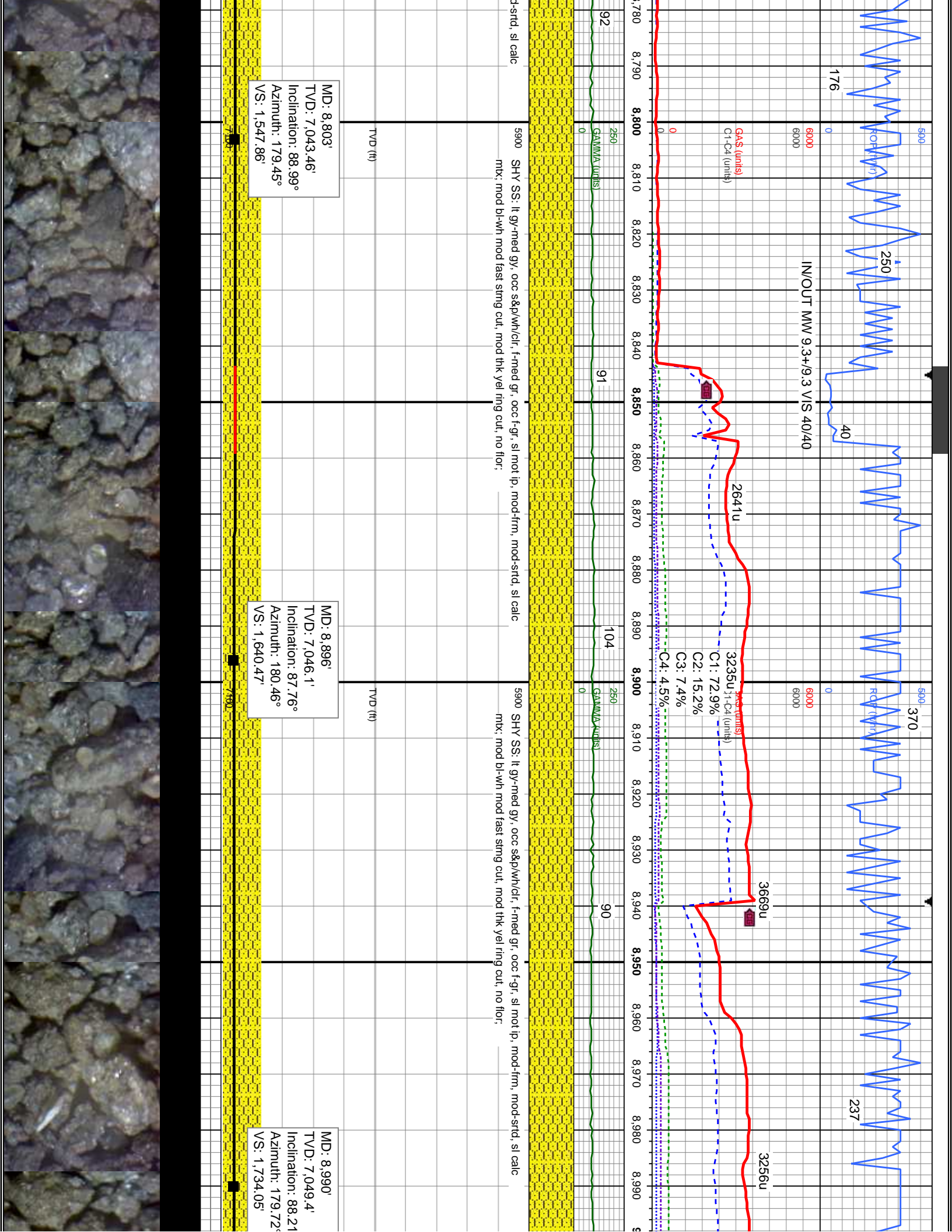




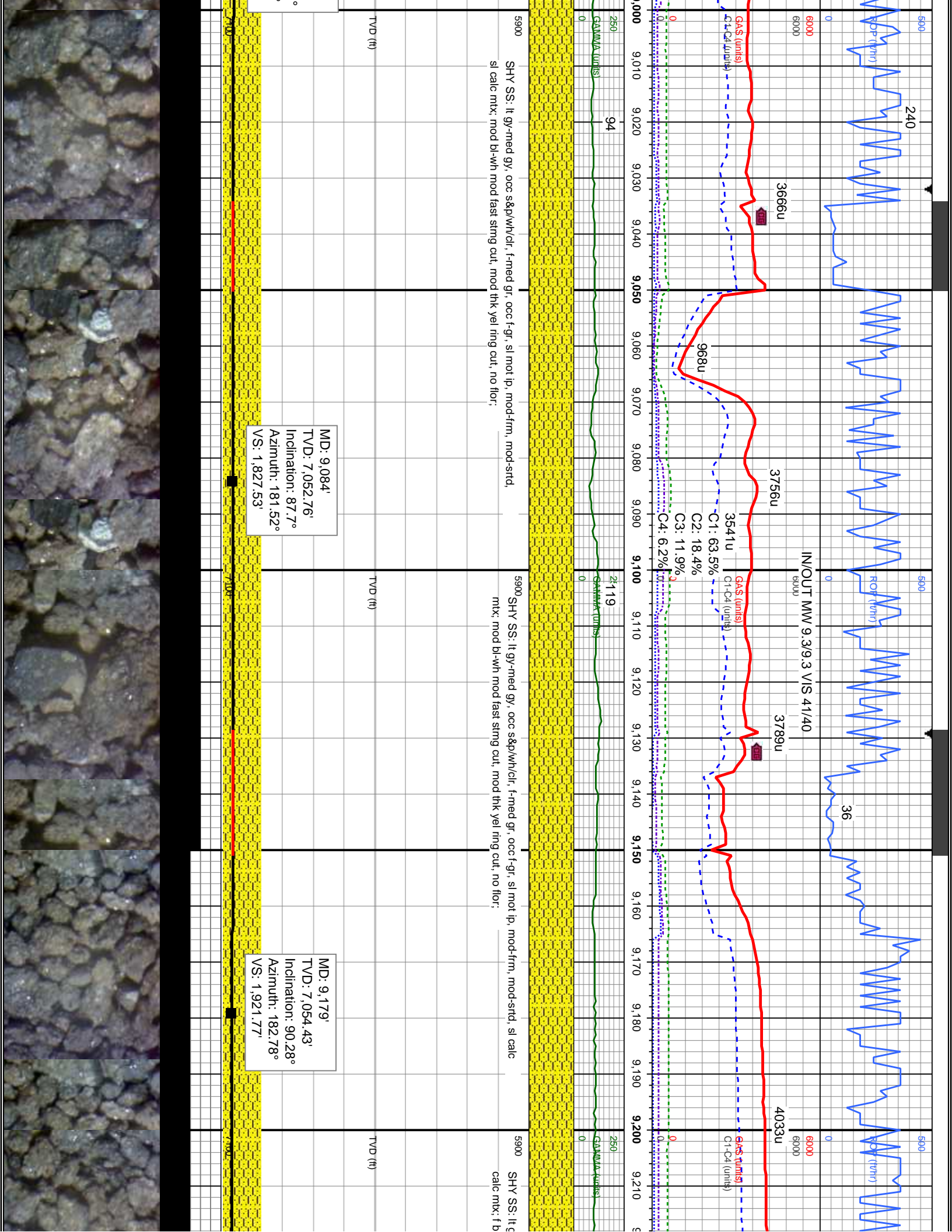












5900

240

GPR (m/s)

6000

6000

GAS (units)

C1-C4 (units)

GAMMA (units)

0

250

94

0

5900

SHY SS: lt gy-med gy, occ s&p/wh/clr, f-med gr, occ f-gr, sl mot lp, mod-firm, mod-srtd, sl calc mix, mod bl-wh mod fast string cut, mod thk yel ring cut, no flor;

TVD (ft)

MD: 9,084'  
TVD: 7,052.76'  
Inclination: 87.7°  
Azimuth: 181.52°  
VS: 1,827.53'

5900

ROF (m/s)

6000

6000

GAS (units)

C1-C4 (units)

GAMMA (units)

0

250

94

0

5900

SHY SS: lt gy-med gy, occ s&p/wh/clr, f-med gr, occ f-gr, sl mot lp, mod-firm, mod-srtd, sl calc mix, mod bl-wh mod fast string cut, mod thk yel ring cut, no flor;

TVD (ft)

MD: 9,179'  
TVD: 7,054.43'  
Inclination: 90.28°  
Azimuth: 182.78°  
VS: 1,921.77'

IN/OUT MW 9.3/9.3 VIS 41/40

3789u

3756u

3541u

968u

C1: 63.5%

C2: 18.4%

C3: 11.9%

C4: 6.2%

36

5900

GPR (m/s)

6000

6000

GAS (units)

C1-C4 (units)

GAMMA (units)

0

250

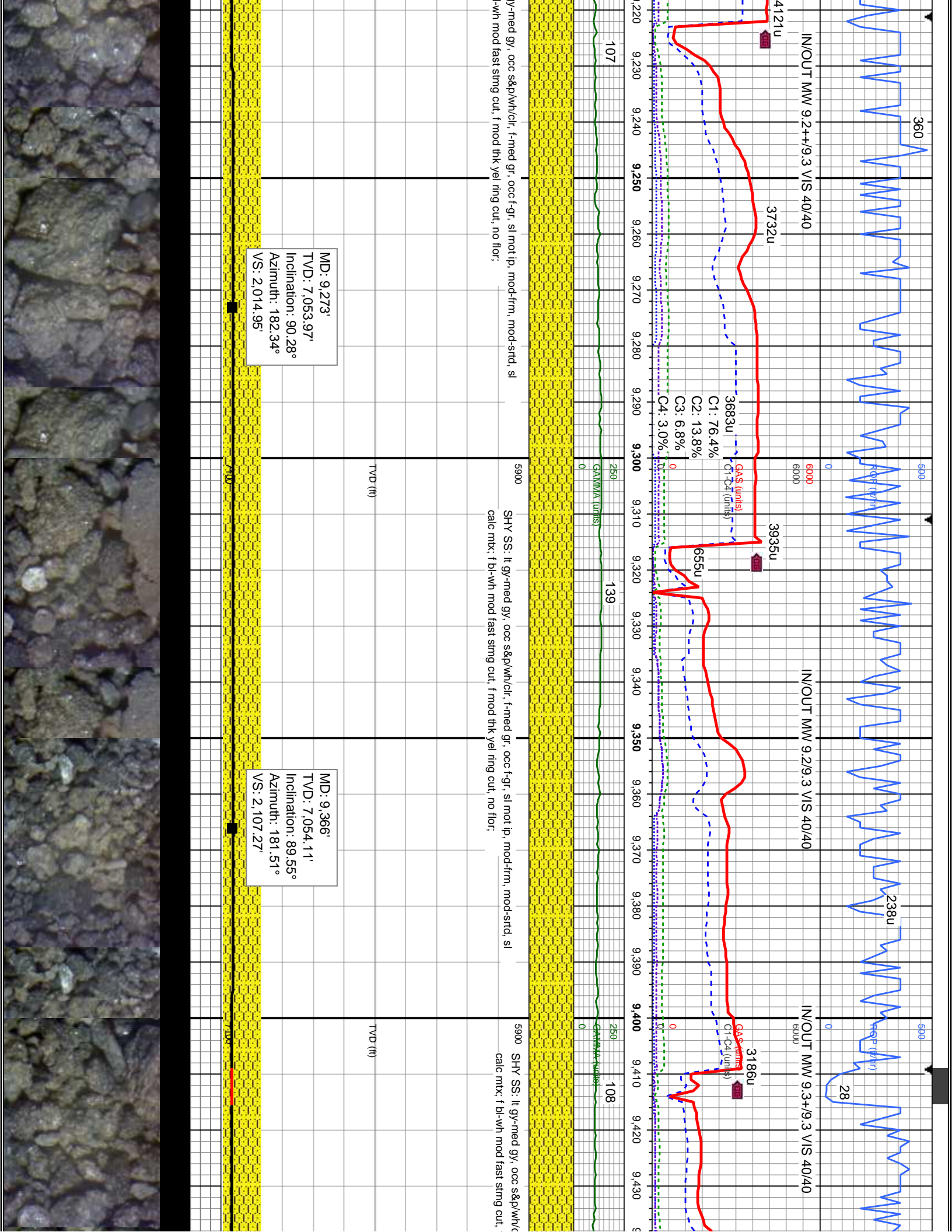
94

0

5900

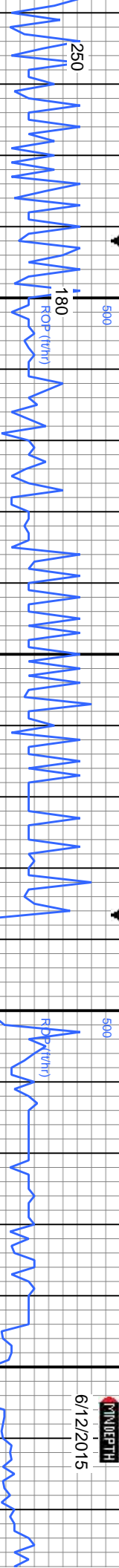
SHY SS: lt gy-med gy, occ s&p/wh/clr, f-med gr, occ f-gr, sl mot lp, mod-firm, mod-srtd, sl calc mix, mod bl-wh mod fast string cut, mod thk yel ring cut, no flor;

TVD (ft)









IN/OUT MW 9.3+/9.3 VIS 40/40

IN/OUT MW 9.3+/9.3 VIS 41/40

IN/OUT MW 9.4/9.3+ VIS 41/40

IN/OUT MW

749u  
C1: 78.3%  
C2: 14.6%  
C3: 4.8% (H<sub>2</sub>S)  
C4: 2.3%

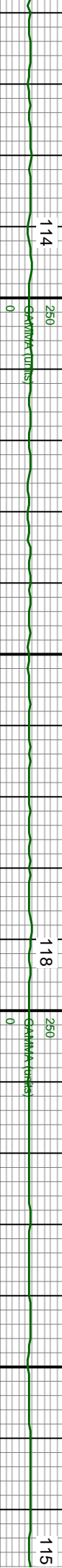
2859u

3272u

GAS (units)  
C1-C4 (units)

2840u

18



sl mot ip, mod-firm, mod-std, sl calc  
ring cut, no floor;

5900 SHY SS: lt gy-med gy, occ s&p/w/ct, f-med gr, occ f-gr, sl mot ip, mod-firm, mod-std, sl calc  
mix; tr SLTY SH; f bl-wh mod fast sting cut, f mod thk yel ring cut, no floor;

SHY SS: cl-lt gy-med gy, occ s&p/w/ct, f-med gr,  
occ v-f-gr, sl mot ip, mod-firm, mod-std, sl calc  
mix; tr SLTY SH; f bl-wh mod fast sting cut, f mod  
thk yel ring cut, no floor;

SHY SS: cl-lt gy-med gy, occ s  
occ v-f-gr, sl mot ip, mod-firm,  
mix; LMSI: lt gy-crm, occ wh, l  
mic xln, frm-hrd, v calc, sl argit  
occ dk gy, silty, sft, sb pily-pily,  
ip, v sl calc; f bl-wh mod fast st  
yel ring cut, tr floor;

TVD (ft)

TVD (ft)

TOOH @ 985' MD,  
23:50 HRS ON  
6/11/2015; MOTOR  
FAILURE

TIH: RESUME  
@18:16 HRS C

MD: 9,744'  
TVD: 7,054.2'  
Inclination: 89.55°  
Azimuth: 178.49°  
VS: 2,483.54'

MD: 9,798'  
TVD: 7,054.15'  
Inclination: 90.57°  
Azimuth: 178.98°  
VS: 2,537.42'

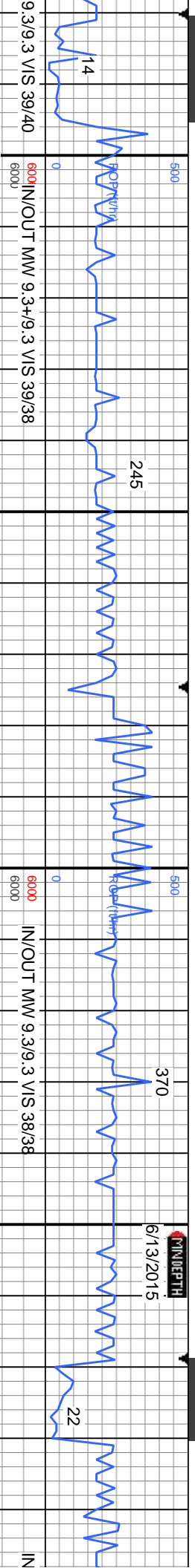
749u

749u





MINDEPTH  
6/13/2015

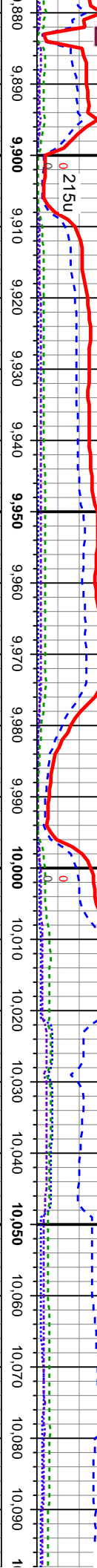


9.3/9.3 VIS 39/40  
6000  
IN/OUT MW 9.3+9.3 VIS 39/38

250u

C1: 77.4%  
C2: 13.8% (1s)  
C3: 6.0% (units)  
C4: 2.8%

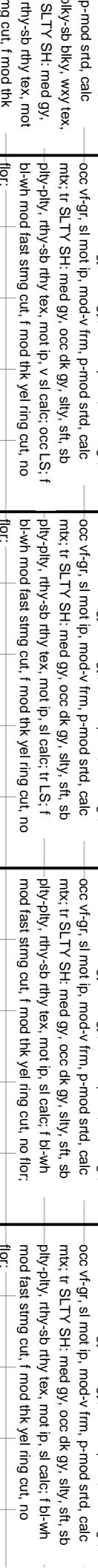
2562u  
2452u  
2505u  
C1-C4 (units)



250u

C1: 77.4%  
C2: 13.8% (1s)  
C3: 6.0% (units)  
C4: 2.8%

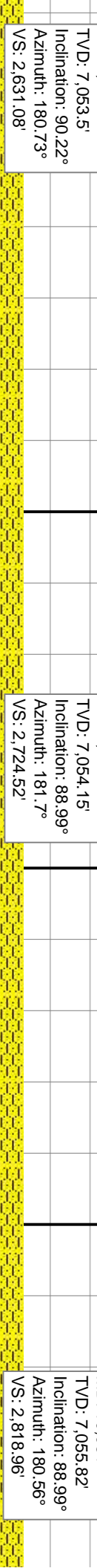
2562u  
2452u  
2505u  
C1-C4 (units)



250u

C1: 77.4%  
C2: 13.8% (1s)  
C3: 6.0% (units)  
C4: 2.8%

2562u  
2452u  
2505u  
C1-C4 (units)



250u

C1: 77.4%  
C2: 13.8% (1s)  
C3: 6.0% (units)  
C4: 2.8%

2562u  
2452u  
2505u  
C1-C4 (units)



DRILLING  
IN 6/12/2015

TVD (ft)

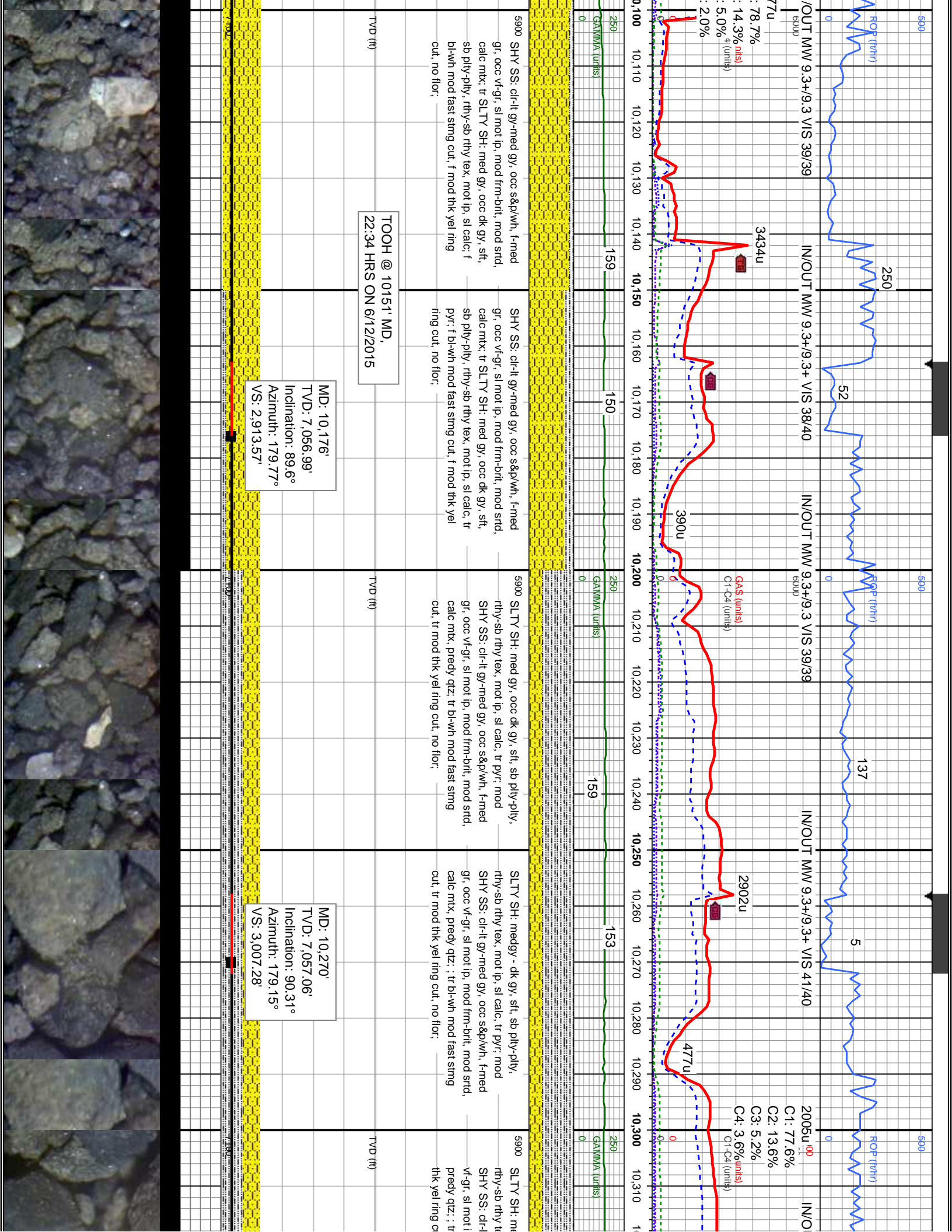
TVD (ft)

TVD (ft)

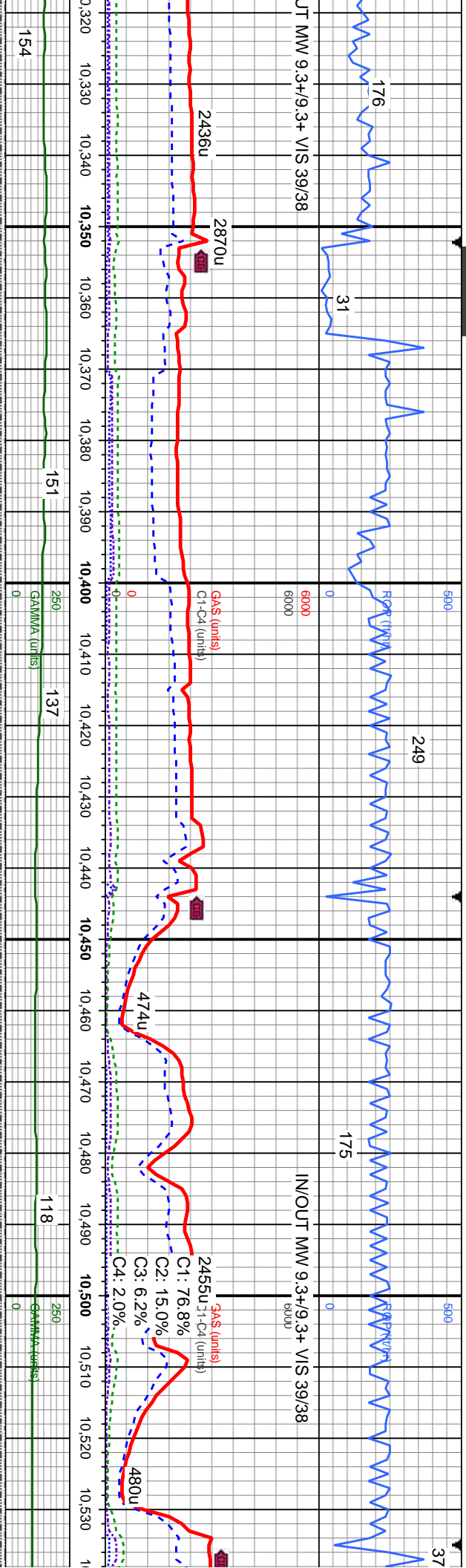
MD: 9,892'  
TVD: 7,053.5'  
Inclination: 90.22°  
Azimuth: 180.73°  
VS: 2,631.08'

MD: 9,986'  
TVD: 7,054.15'  
Inclination: 88.99°  
Azimuth: 181.7°  
VS: 2,724.52'

MD: 10,081'  
TVD: 7,055.82'  
Inclination: 88.99°  
Azimuth: 180.56°  
VS: 2,818.96'







JT MW 9.3+/9.3+ VIS 39/38

IN/OUT MW 9.3+/9.3+ VIS 39/38

ed gy, occ dk gy, stf, sb pily-pty,  
ex, mot ip, sl calc, tr pyr; mod  
t gy-med gy, s&p, f-med gr, occ  
p, mod frm-brit, w strd, calc mtx,  
bl-wh mod fast sting cut, tr mod  
cut, no flor;

SLTY SH: med gy, occ dk gy, stb, sb ply-ply, -thys-sb thy tex, mot ip, sl calc; tr SHY SS: cl-ll-gy-med gy, s&p, f-med gr, occ v-fr, sl -mot ip, mod frm-brt, w strd, calc mix, prey qtz; tr bl-wh mod fast simg cut, tr mod thk yel ring cut, no flor;

SLTY SH: med gy, occ dk gy, stf, sb ply-ply, rth-y-sb rthy tex, mot ip, sl calc, tr pyr, r SHY SS: cl-it gy-med gy, s&p, f-med gr, occ vf-gr, sl mot ip, mod frm-bit, w stld, calc mx, pxyd qtz; tr bl-wh mood fast stmg cut, tr mod thk yel ring cut, no flor,

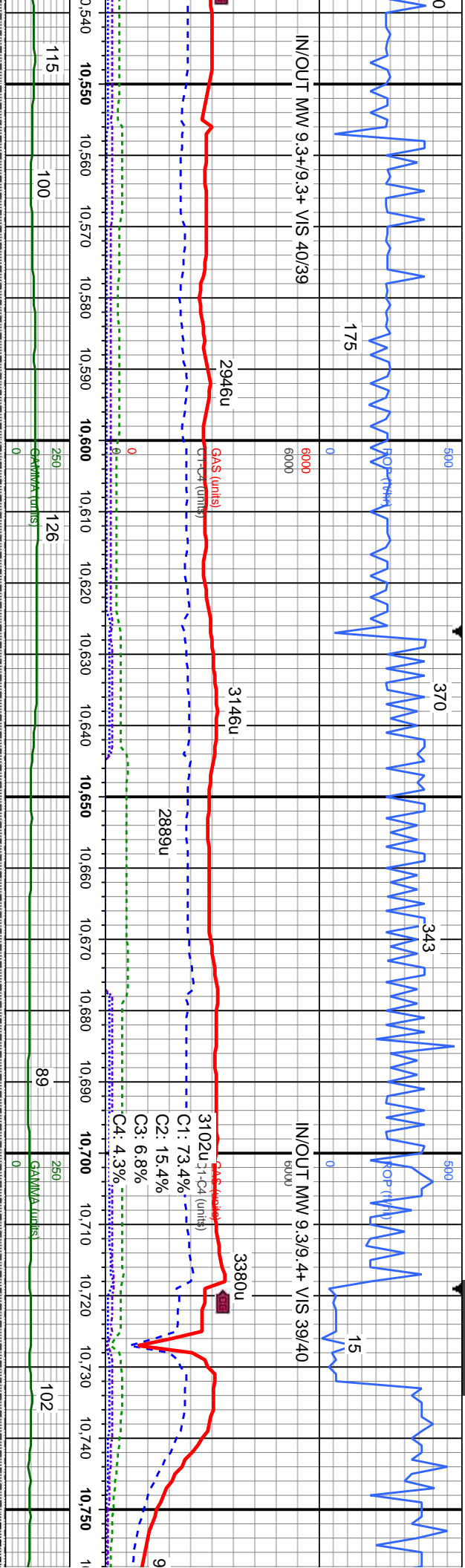
SLTY SH: med gy, occ dk gy, sft, sb ply-ply  
rthy-sb rthy tex, mod ip, sl calc, tr pyr, tr SHY  
SS: cl-rt-gy-med gy, s&p, f-med gr, occ vf-gr  
sl mot ip, mod frm-bit, w strd, calc mtx; tr  
bl-wh mod fast string cut, tr mod thk yel ring  
cut, no flor;

5600 SLTY SH: med gy, occ dk gy, sft, sb rthy-sb rthy tex, mot ip, sl calc, tr pyr SS: cl-ft-gy-med gy, s&p, f-med gr, c sl mot ip, mod frm-brt, w strd, calc r tr br-wh mod fast string cut, tr mod thk cut, no flor.

MD: 10,362'
TVD: 7,056.36'
Inclination: 90.57°
Azimuth: 180.56°
VS: 3,098.95'

MD: 10,453'  
TVD: 7,055.31'  
Inclination: 90.75°  
Azimuth: 179.85°  
VS: 3,189.56'

ME	TV	Inc	AZ	VS
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ply- <i>ply</i> , tr SHY	SHY SS: cl-rl-gy-med gy, ooc s&g/w/h, priedy qz, f-med gr, ooc v-f-gr, sl mot ip, mod frm-brt,	5800	SHY SS: cl-rl-gy-med gy, ooc s&g/w/h, priedy qz, f-med gr, ooc v-f-gr, sl mot ip, mod frm-brt,
ooc v-f-gr, tr cal;	mod strd, calc mxt; aount SLTY SH: med gy, ooc dk gy, sft, sb ply- <i>ply</i> , rthy-sb rthy tex, mot		mod strd, calc mxt; aount SLTY SH: med gy, ooc dk gy, sft, sb ply- <i>ply</i> , rthy-sb rthy tex, mot
ply- <i>ring</i>	ip, sl calc, tr pvr; f bl-wh mod fast sting cut, f mod thk yel ring cut, no flor;		ip, sl calc, tr cal; f bl-wh mod fast sting cut, f mod thk yel ring cut, no flor;

SHY SS: chl-rl-gy-med gy, ooc s&g/wh, priedy  
qlz, f-med gr, ooc vf-gr, sl mot ip, mod frm-brt,  
w strd, calc mix; mod SLTY SH: med gy, ooc  
cl-gy, sft, sb ply-ply, rthy-sb rthy tex, mot ip, sl  
calc, tr' cal; f bl-w mod fast strng cut, f mod  
thk yel ring cut, no flur.

5900 SHY SS. cl:rl-ty-med gy. .occ s&g/w/h, pedy  
qz, f-med gy. .occ v-f-gr, sl mot ip, mod frn-brt,  
w strd, calc mix; mod SLYT SH: ck gy, .occ  
med gy, sft, ss pty-pty, rhy-sb rhy tex, mot  
ip, sl calc, tr cal; f bl-wh mod fast sting cut, f  
mod thk yel ring cut, no flor,

SHY S:  
f-med g  
calc mt  
plty-plty  
LMST:  
mic xln  
thk yel

D: 7,054.32'  
Declination: 90.48°  
Azimuth: 180.03°  
Elevation: 3,281.22'

MD: 10,636'  
TVD: 7,053.35'  
Inclination: 90.75°  
Azimuth: 178.8°  
VS: 3,371.94'

MD: 10,728'  
TVD: 7,051.93'  
Inclination: 91.01°  
Azimuth: 179.94°  
VS: 3,463.66'



373

5900

ROP (ft/hr)

21

IN/OUT MW 9.3/9.5 VIS 39/41

5900

249u

IN/OUT MW 9.4/9.4 VIS 38/39

5900

6/14/2015

ROP (ft/hr)

82

IN/OUT MW 9.4/9.4 VIS 38/39

5900

3819u

ROP (ft/hr)

82

TOOH Before Bottoms Up

10,760 10,770 10,780 10,790 10,800 10,810 10,820 10,830 10,840 10,850 10,860 10,870 10,880 10,890 10,900 10,910 10,920 10,930 10,940 10,950 10,960 10,970

82

250  
GAMMA (units)

45

100

250  
GAMMA (units)

90

150

3214u

404u

ROP (ft/hr)

82

TOOH Before Bottoms Up

10,760 10,770 10,780 10,790 10,800 10,810 10,820 10,830 10,840 10,850 10,860 10,870 10,880 10,890 10,900 10,910 10,920 10,930 10,940 10,950 10,960 10,970

82

250  
GAMMA (units)

45

100

250  
GAMMA (units)

90

150

3: s: cl-it gy-med gy, occ s&p/wh, predy qtz, if: occ vf-gr, sl mot ip, mod frm-brlt, w strd, x: tr SLTY SH: dk gy, occ med gy, sft, sb /, rthy-sb rthy tex, mot ip, sl calc, tr cal: tr it gy-crm, occ wh, sb ply-sb blk, wxy tex, frm-hrd: f bl-wh mod fast sting cut, f mod

5: LMST: it gy-crm, occ wh, sb ply-sb blk, wxy tex, mic xln, frm-hrd, v calc: com SHY SS: cl-it gy-med gy, occ s&p, predy qtz, f-med gr, occ vf-gr, sl mot ip, mod frm-brlt, w strd, calc mtx: tr SLTY SH: gy, occ med gy-blk, sft, sb ply-ply, rthy-sb rthy tex, mot ip, sl calc, tr cal: f bl-wh mod fast sting cut, f mod thk yel ring cut, no flor.

LMST: it gy-crm, occ wh, sb ply-sb blk, wxy tex, mic xln, frm-hrd, v calc: com SHY SS: cl-it gy-med gy, occ s&p, predy qtz, f-med gr, occ vf-gr, sl mot ip, mod frm-brlt, w strd, calc mtx: tr SLTY SH: f bl-wh mod fast sting cut, f mod thk yel ring cut, no flor.

5900 SLTY SH: gy, occ med gy-blk, sft, sb ply-ply, rthy-sb rthy tex, mot ip, sl calc, tr cal: mod LMST: it gy-crm, occ wh, sb ply-sb blk, wxy tex, mic xln, frm-hrd, v calc: mod SHY SS: cl-it gy-med gy, occ s&p, predy qtz, f-med gr, occ vf-gr, sl mot ip, mod frm-brlt, w strd, calc mtx: f bl-wh mod fast sting cut, f mod thk yel ring cut, no flor.

SLTY SH: gy, occ med gy-blk, sft, sb ply-ply, rthy-sb rthy tex, mot ip, sl calc, tr cal: mod LMST: it gy-crm, occ wh, sb ply-sb blk, wxy tex, mic xln, frm-hrd, v calc: mod SHY SS: cl-it gy-med gy, occ s&p, predy qtz, f-med gr, occ vf-gr, sl mot ip, mod frm-brlt, w strd, calc mtx: f bl-wh mod fast sting cut, f mod thk yel ring cut, no flor.

TVD (ft)

TVD (ft)

MD: 10,820'

TVD: 7,051.02'

Inclination: 90.13°

Azimuth: 180.03°

VS: 3,555.31'

MD: 10,911'

TVD: 7,051.65'

Inclination: 89.08°

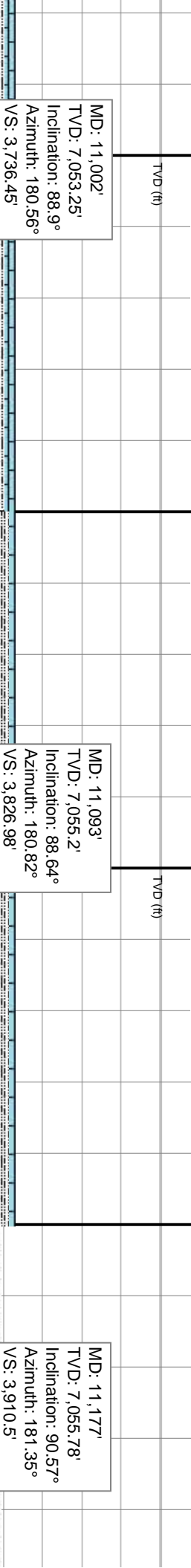
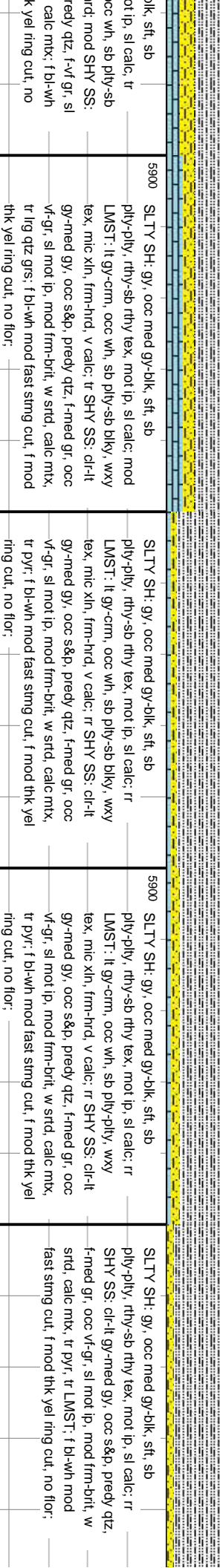
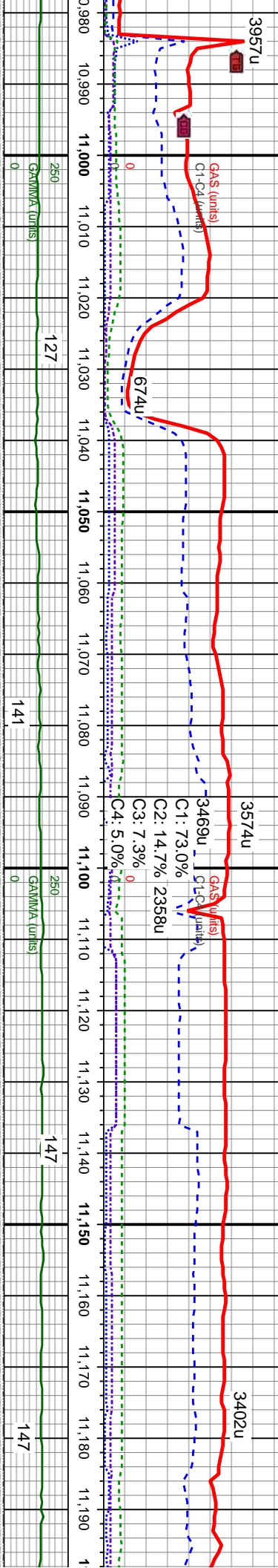
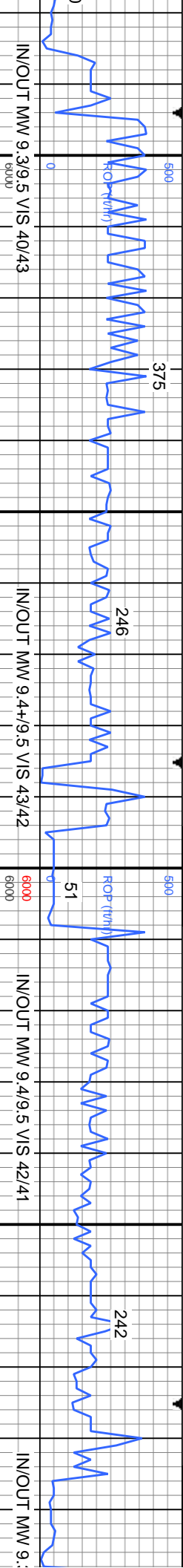
Azimuth: 180.73°

VS: 3,645.9'

7108



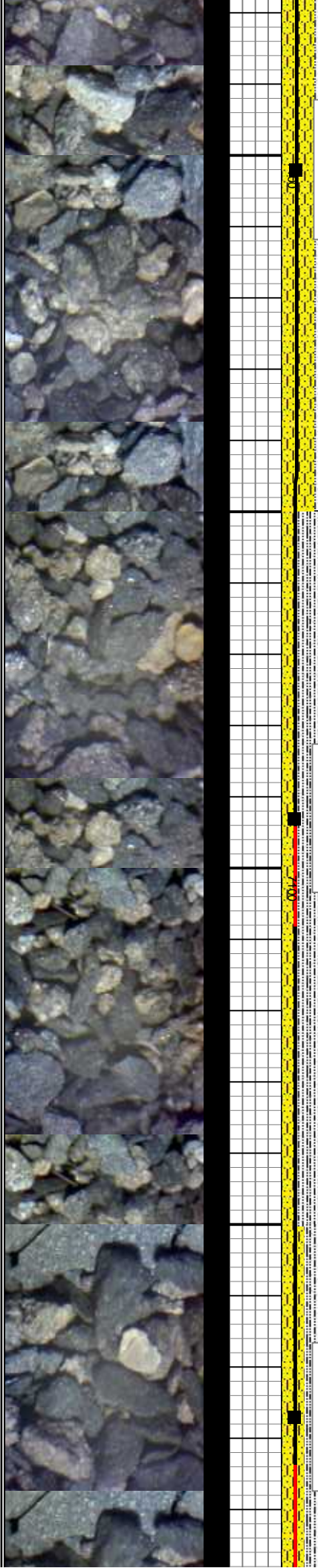




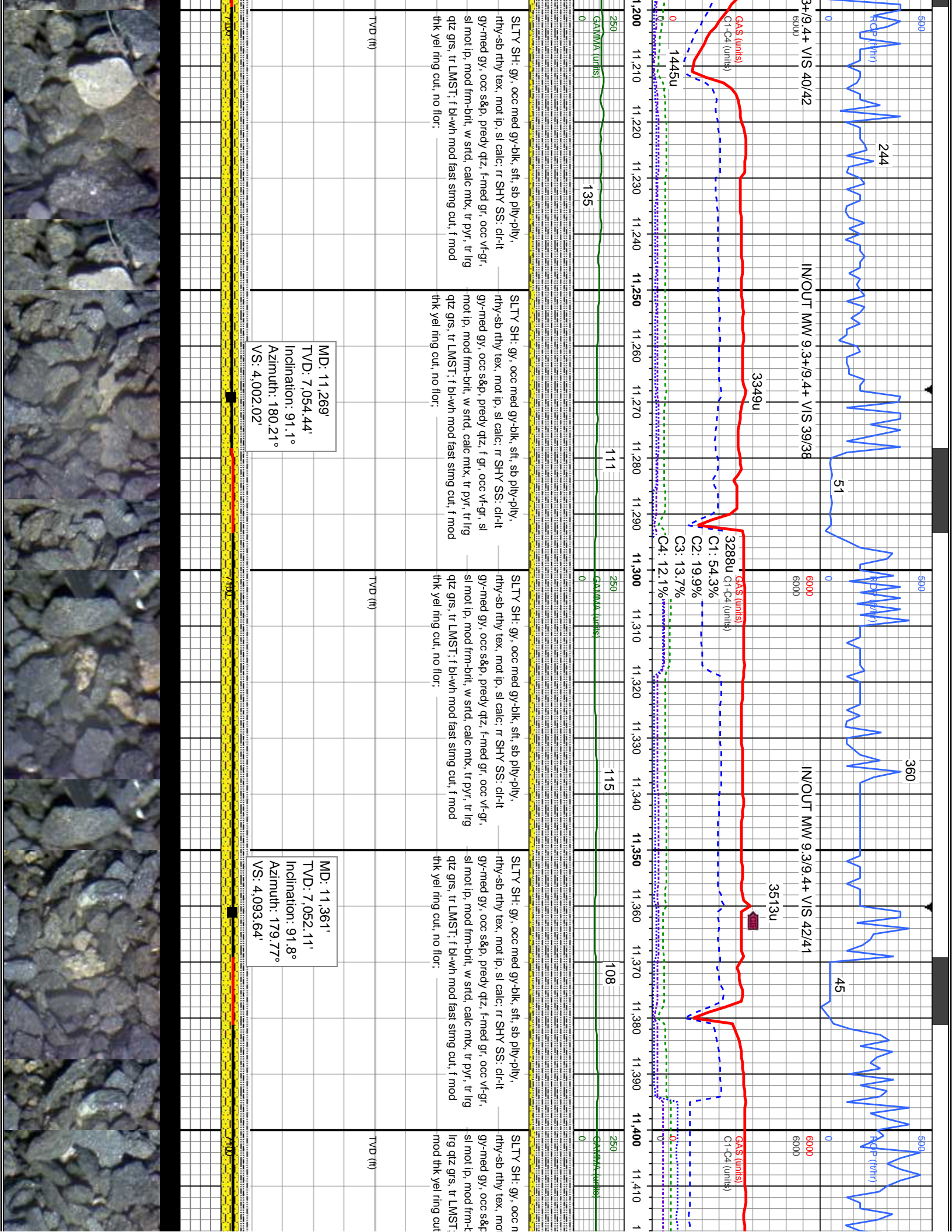
MD: 11,002'  
TVD: 7,053.25'  
Inclination: 88.9°  
Azimuth: 180.56°  
VS: 3,736.45'

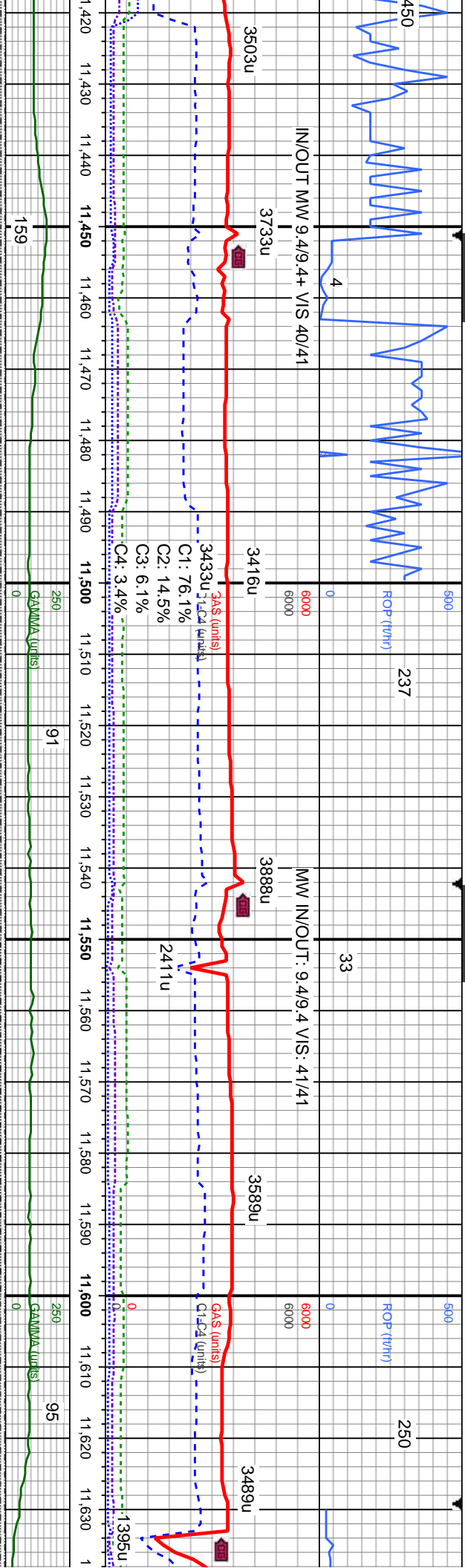
MD: 11,093'  
TVD: 7,055.2'  
Inclination: 88.64°  
Azimuth: 180.82°  
VS: 3,826.98'

MD: 11,177'  
TVD: 7,055.78'  
Inclination: 90.57  
Azimuth: 181.35°  
VS: 3,910.5'









med gy-blk, sft, sb plty-plty,  
ip, sl calc; rr SHY SS; dr-lt  
p, pedy qtz, f-med gr, occ v-f-gr,  
nit, w strd, calc mx, tr pyr, tr  
f bl-wh mod fast stmg cut, f  
no flor;

SLTY SH: gy, occ med gy-blk, t il gy, sily-v fine gr  
sft, sb ply-ply, rhy-sb rhy tex, mod lp, sl calz: mod  
SHY SS: chl-fly-gy med gy, occ s&p, preely qtz,  
f-med gr, occ vt-gr, sl mod ip, mod frm-brk, w strd,  
calc mix, tr pvr: f bl-wh mod fast string cut, f mod  
thk yel ring cut, no flor:

SLTY SH: gy, occ med gy-blk, sft, sb ply-pty, rthy-sb rthy tex, mot ip, sl calc; mod SHY SS: cl-it gy-med gy, occ s&p, priedy qtz, f-med gr, occ vf-gr, sl mot ip, mod from-brt, w strd, calc mtx, t pry, t lng qtz gys, f bl-wh mod fast stmg cut, f mod thk yel ring cut, no flor;

SHY SS: cīr-it gy-mēd gy, ooc lg uncons qtz grs,  
ooc s&p, pīedy qtz, f-mēd gy, ooc vī-gīr, sl mot ip,  
mod frn-brt, w strd, calc mtx, tr pyr, tr līg qtz grs;  
ooc SLT rhy tex, ooc med gy-blk, sft, sd ply-plty,  
rthly-sb rthly tex, mot ip, sl calc; f bl-wh mod fast  
strīng cut, f mod blk vīl rīng cut, no flōr, \_\_\_\_\_

5900 LMST: It gy-crm, ooc wh, sb ply-sb e  
tex, mic xln, frm-hrd, v calc; tr SLTY  
ooc med gy-blk, sft, sb ply-ply, rthy-  
tex, mod ip, sl calc, tr cal, tr ss; f bl-wl  
fast smg cut, f mod thk yel ring cut, r

MD: 11,453'
TVD: 7,048.87'
Inclination: 92.24°
Azimuth: 179.15°
VS: 4,185.3'

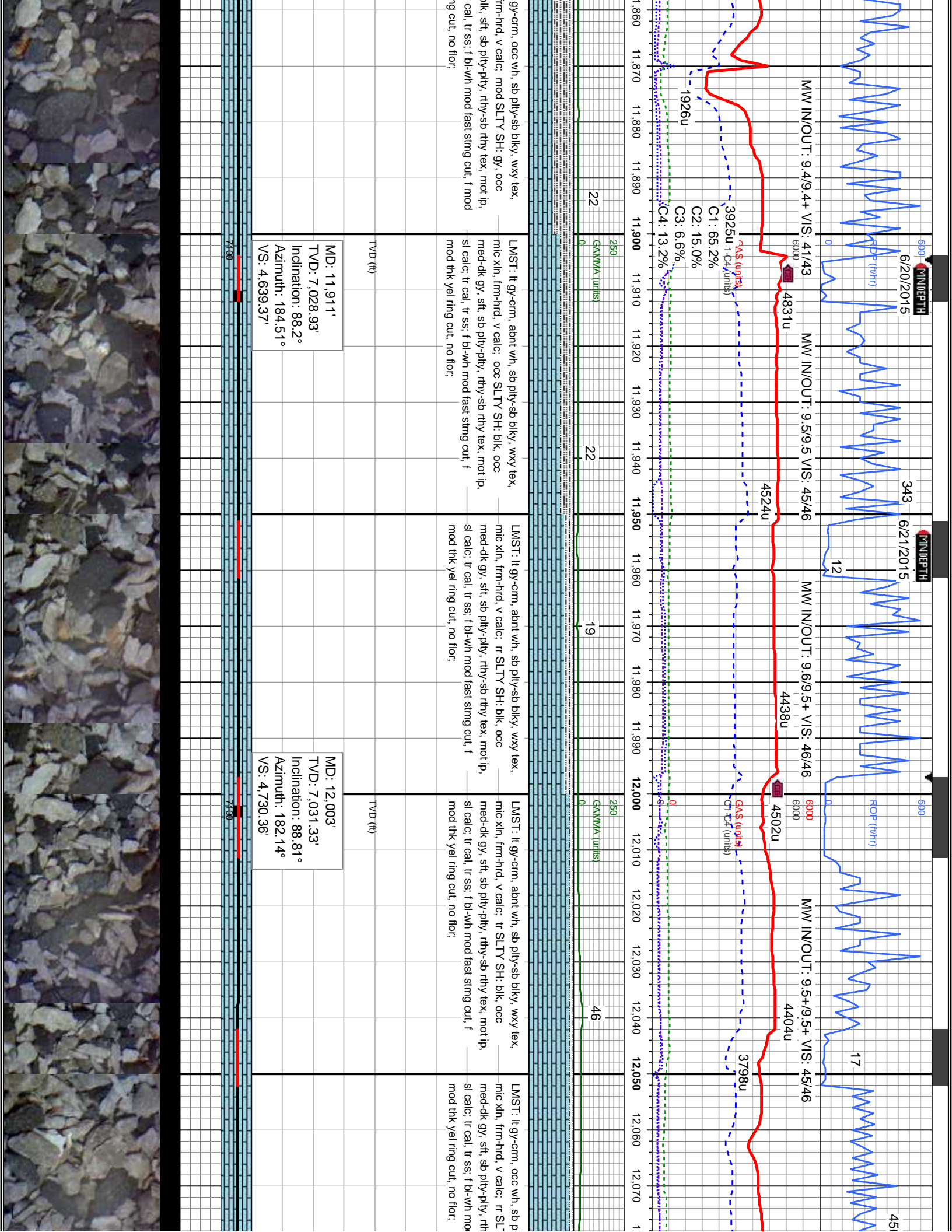
MD: 11,545'  
TVD: 7,044.42'  
Inclination: 93.3°  
Azimuth: 178.98°  
VS: 4,276.96'

MD: 11,63  
TVD: 7,03  
Inclination  
Azimuth: 1  
VS: 4,368.

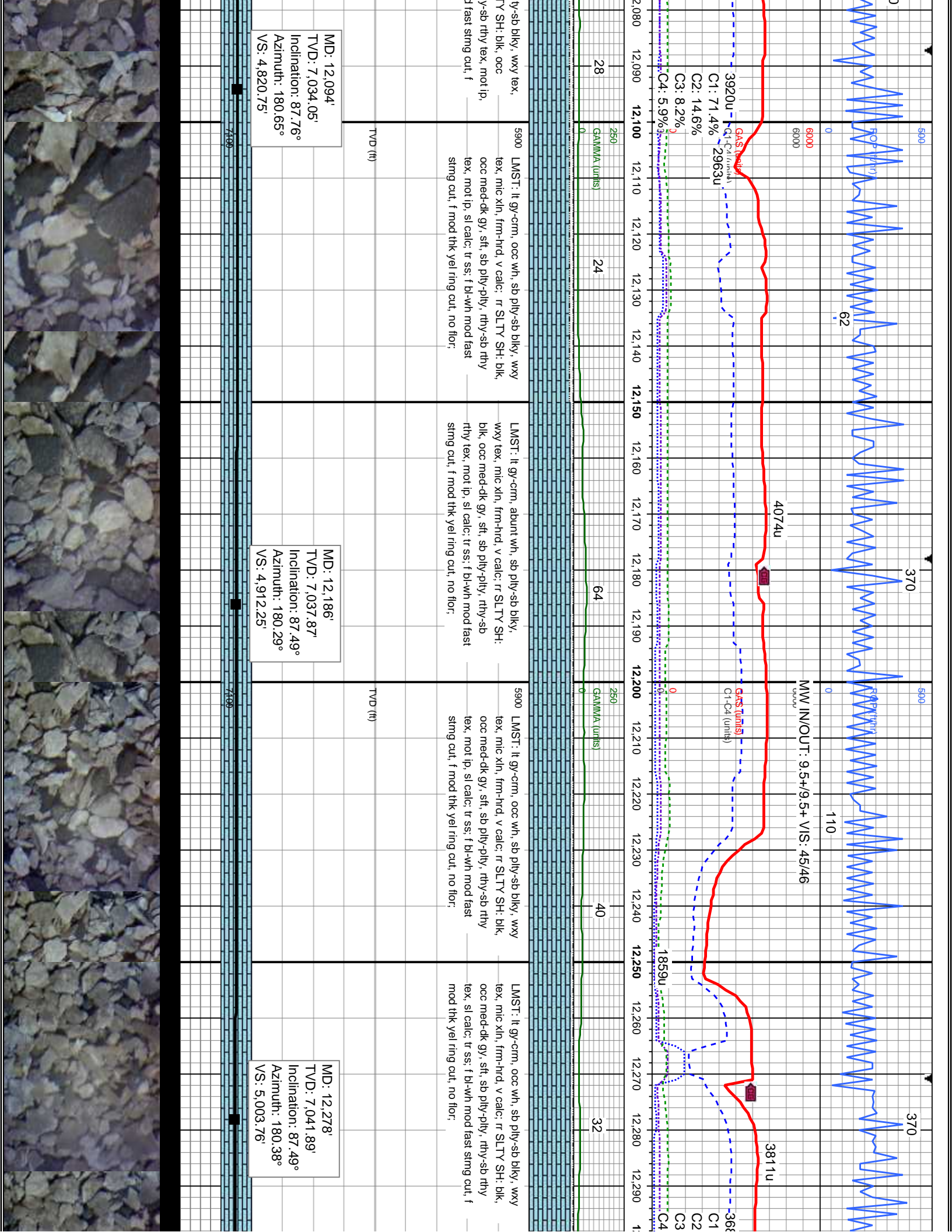
Sidetrack Started @ 11629' N  
12:39 HRS on 6/19/2015







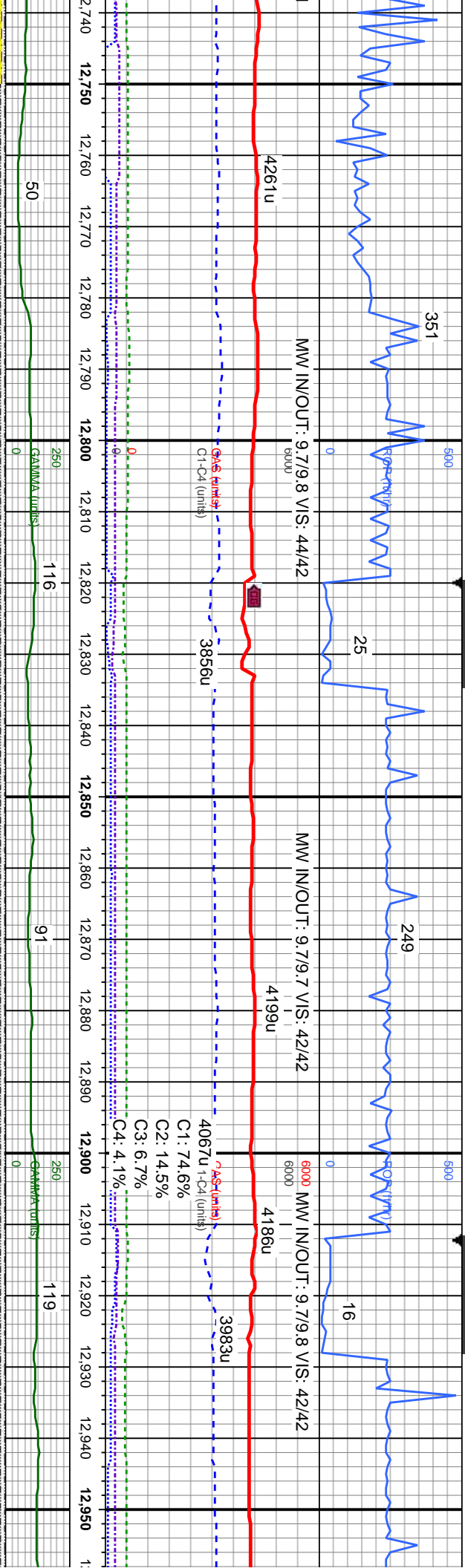










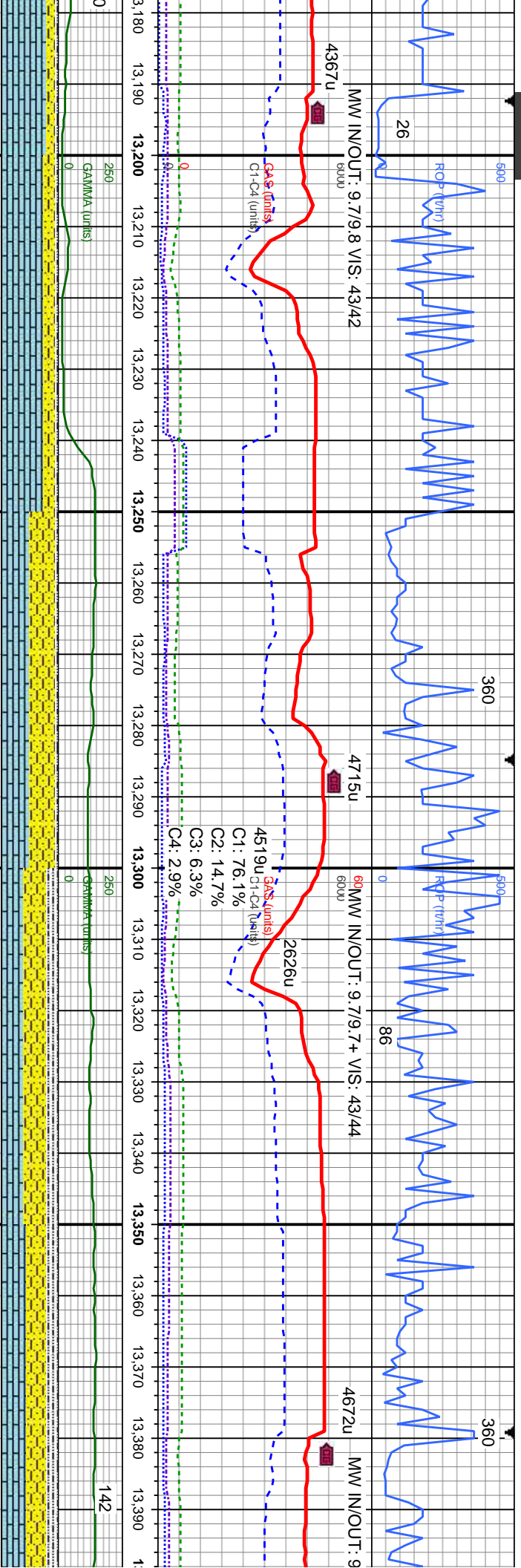


SHY	SHY	5900	SHY SS: cfr- <i>lt</i> gy-med gy, occ s&p, predy qtz, f-med gr, occ v-f-gr, sl mot ip, mod frm-brt, w strd, calc mtx; mod LMST: <i>lt</i> gy-crm, about wh, sb ply-sb biky, wxy tex, mic xln, frm-hrd, v calc; about SHY SS: cfr- <i>lt</i> gy-med gy, occ s&p, predy qtz, f-med gr, occ v-f-gr, sl mot ip, mod frm-brt, w strd, calc mtx; r SLTY SH: gy, occ med gy-blk, sft, sb ply-ply, rthy-sb rthy tex, mot ip, sl calc, tr cal; f bl-wh mod fast string cut, mod mod thk yel ring cut, no flor;	LMST: <i>lt</i> gy-crm, occ wh, sb ply-sb biky, wxy tex, mic xln, frm-hrd, v calc; about SHY SS: cfr- <i>lt</i> gy-med gy, occ s&p, predy qtz, f-med gr, occ v-f-gr, sl mot ip, mod frm-brt, w strd, calc mtx; r SLTY SH: gy, occ med gy-blk, sft, sb ply-ply, rthy-sb rthy tex, mot ip, sl calc, tr cal; f bl-wh mod fast string cut, f mod thk yel ring cut, no flor;	5900	LMST: <i>lt</i> gy-crm, occ wh, sb ply-sb biky, wxy tex, mic xln, frm-hrd, v calc; mod SHY SS: cfr- <i>lt</i> gy-med gy, occ s&p, predy qtz, f-med gr, occ v-f-gr, sl mot ip, mod frm-brt, w strd, calc mtx; r SLTY SH: gy, occ med gy-blk, sft, sb ply-ply, rthy-sb rthy tex, mot ip, sl calc, tr cal; f bl-wh mod fast string cut, f mod thk yel ring cut, no flor;	TVD (ft)	TVD (ft)
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[illegible]







5' LMST: lt gy-crm, occ wh, sb pty-sb blk, wxy tex, mic xln, frm-hrd, v calc; r SHY SS: cl-it gy-med gy, occ s&p, priedy qtz, f-med gr, occ vf-gr, sl mot ip, mod frm-brt, w strd, calc mtx; tr SLTY SH: gy, occ med gy-blk, sft, sb pty-pty, rthy-sb rthy tex, mot ip, sl calc, tr cal; f bl-wh mod fast string cut, f mod thk yel ring cut, no flor;

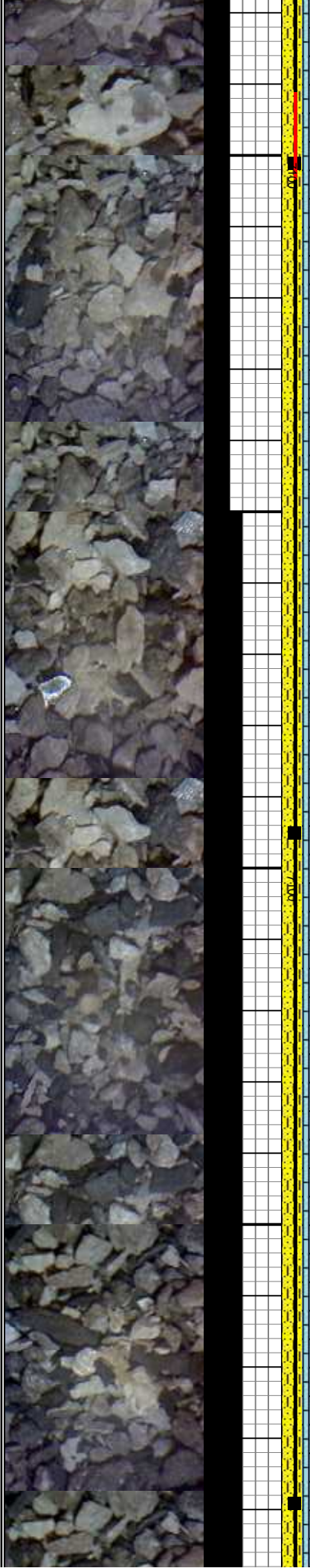
5' LMST: lt gy-crm, occ wh, sb pty-sb blk, wxy tex, mic xln, frm-hrd, v calc; mod SHY SS: cl-it gy-med gy, occ s&p, priedy qtz, f-med gr, mod vf-gr, sl mot ip, mod frm-brt, w strd, calc mtx; tr SLTY SH: gy, occ med gy-blk, sft, sb pty-pty, rthy-sb rthy tex, mot ip, sl calc, tr cal; f bl-wh mod fast string cut, f mod thk yel ring cut, no flor;

5' LMST: lt gy-crm, occ wh, sb pty-sb blk, wxy tex, mic xln, frm-hrd, v calc; mod SHY SS: cl-it gy-med gy, occ s&p, priedy qtz, f-med gr, mod vf-gr, sl mot ip, mod frm-brt, w strd, calc mtx; r SLTY SH: gy, occ med gy-blk, sft, sb pty-pty, rthy-sb rthy tex, mot ip, sl calc, tr cal; f bl-wh mod fast string cut, f mod thk yel ring cut, no flor;

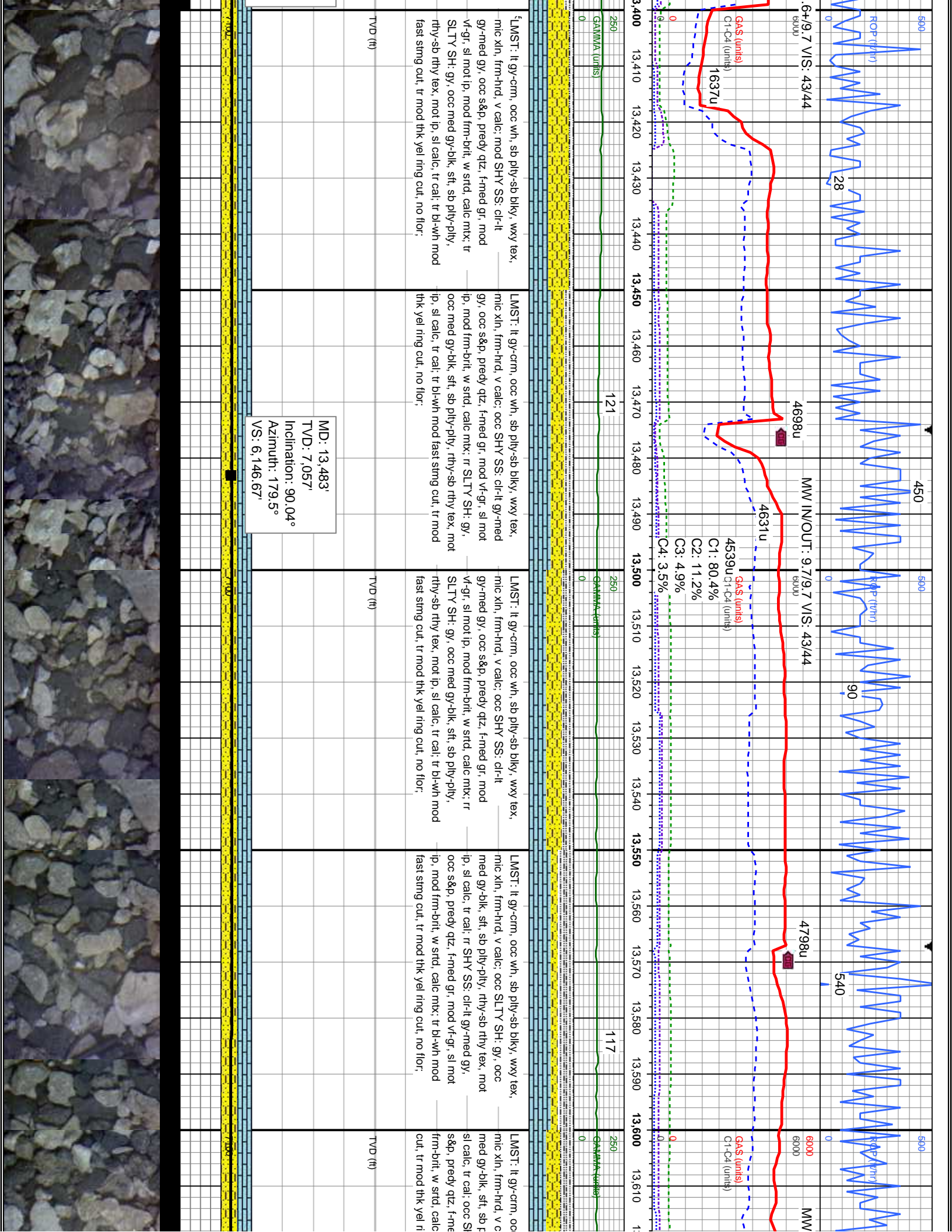
MD: 13,201'  
TVD: 7,057.07'  
Inclination: 90.22°  
Azimuth: 179.77°  
VS: 5,923.37'

MD: 13,295'  
TVD: 7,056.78'  
Inclination: 90.13°  
Azimuth: 90.13°  
VS: 5,988.21'

MD: 13,389'  
TVD: 7,056.86'  
Inclination: 89.78°  
Azimuth: 179.5°  
VS: 6,052.96'

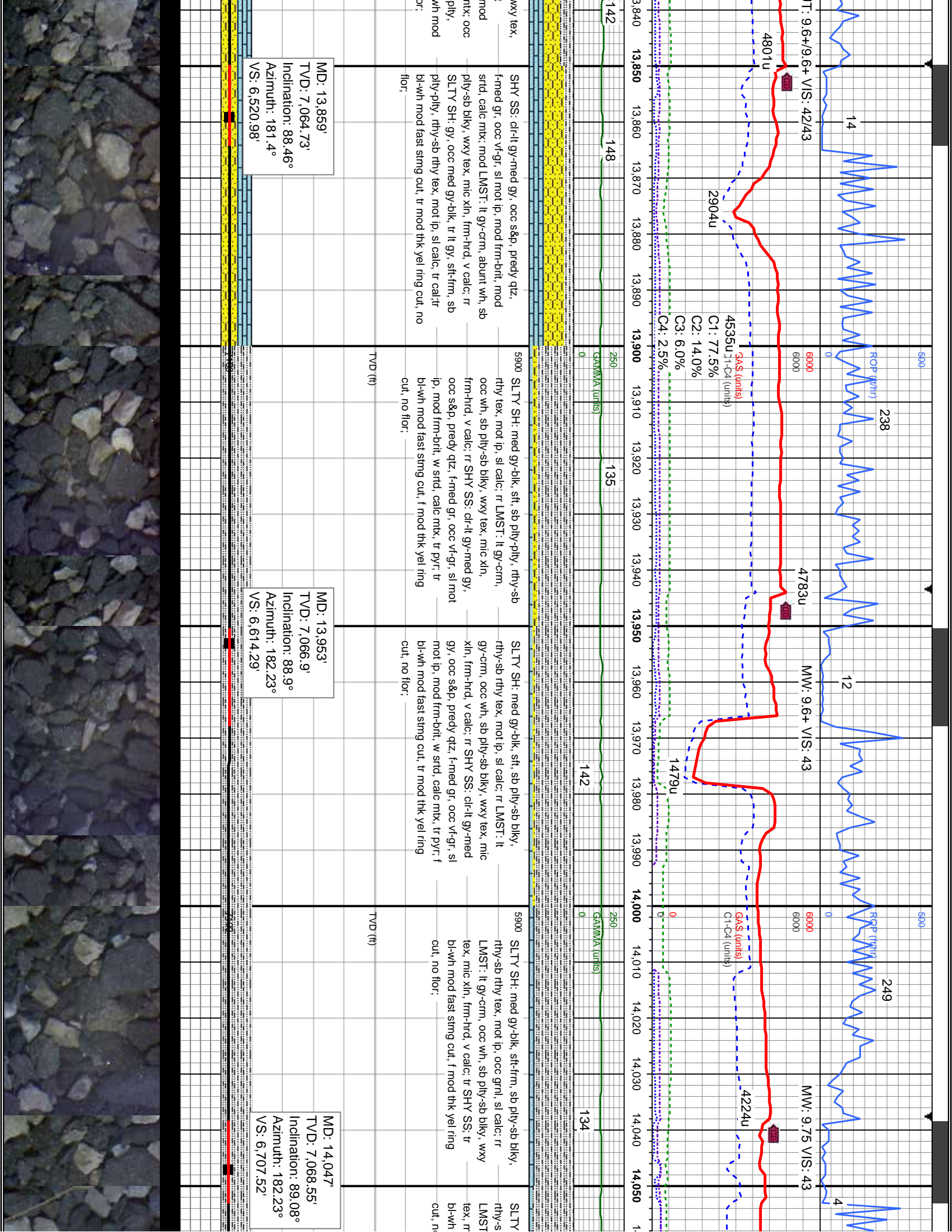


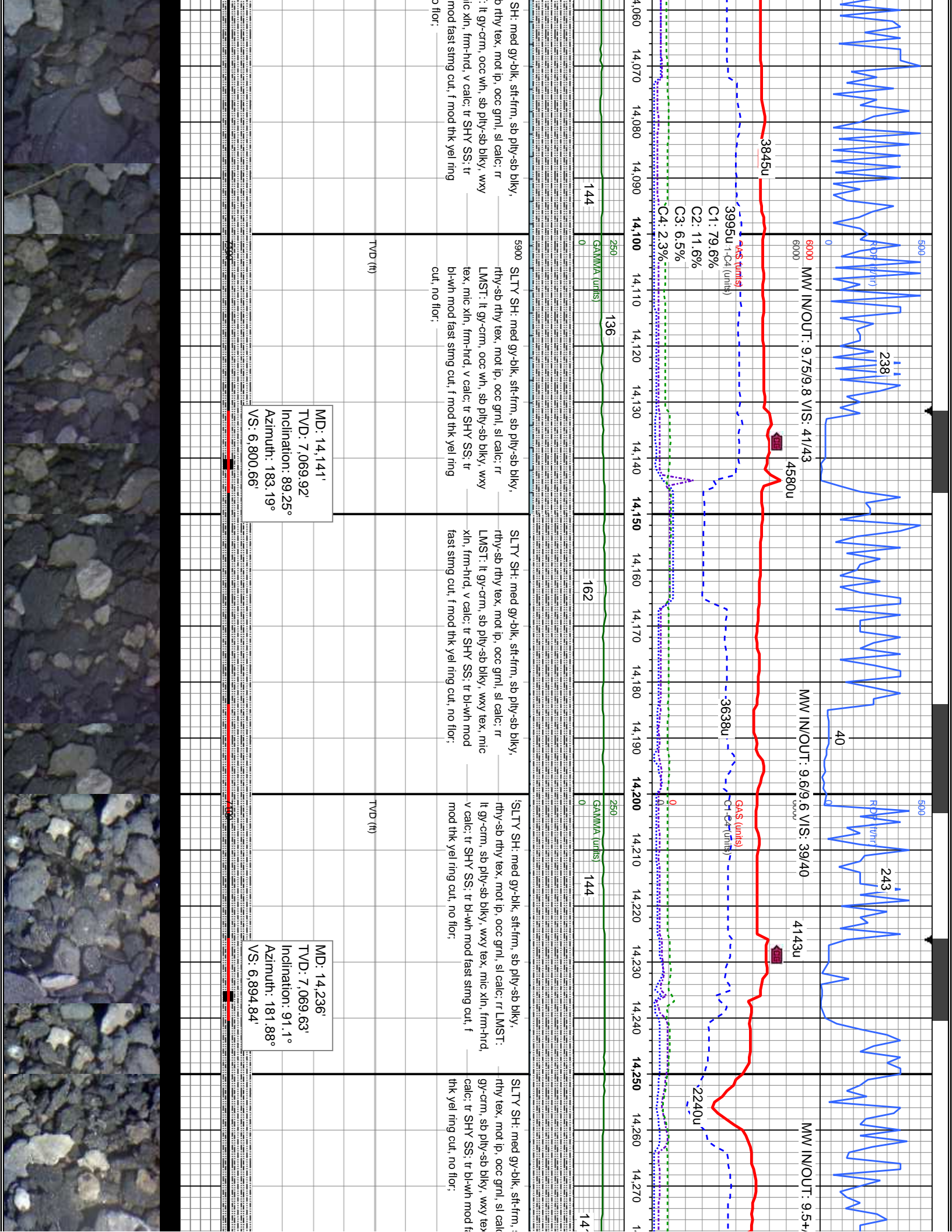






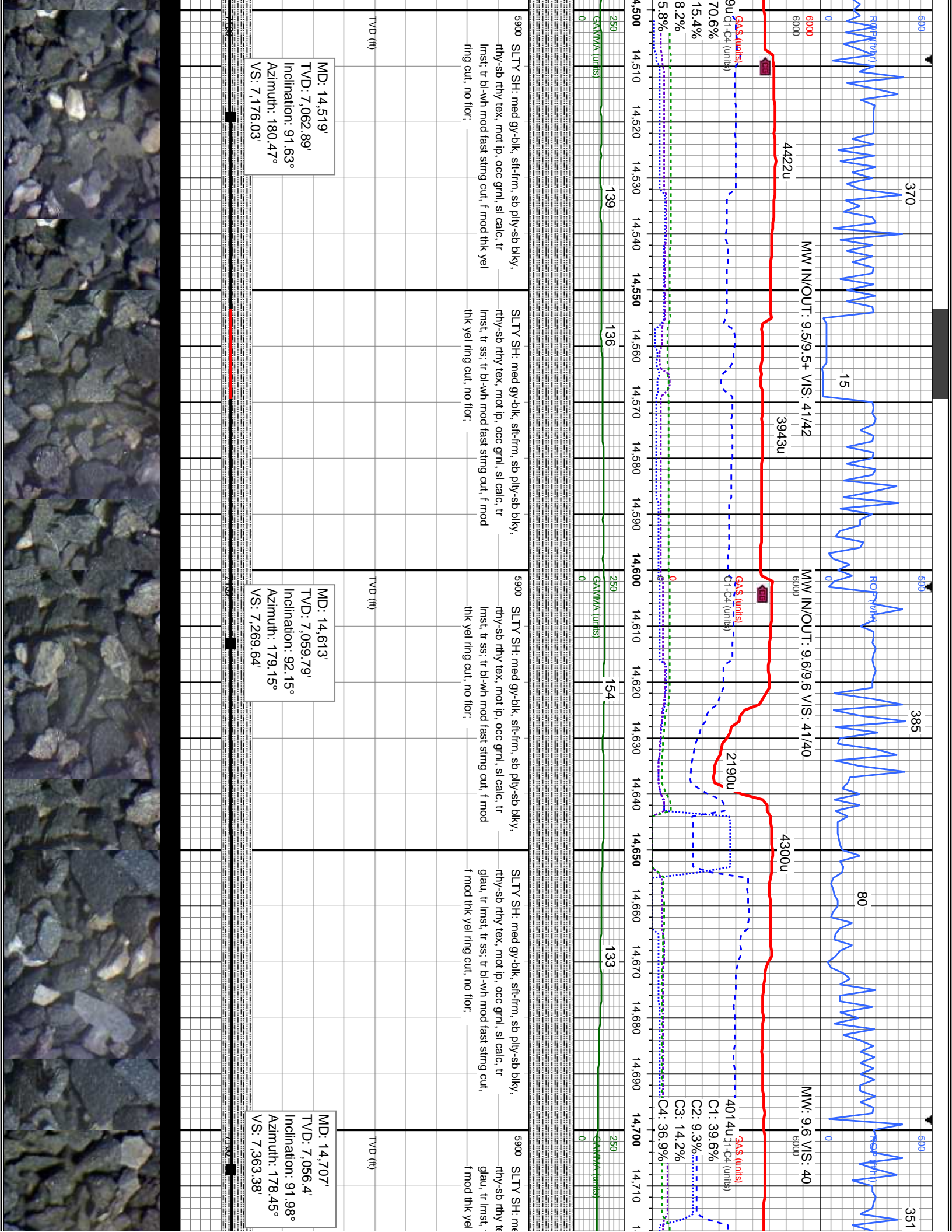




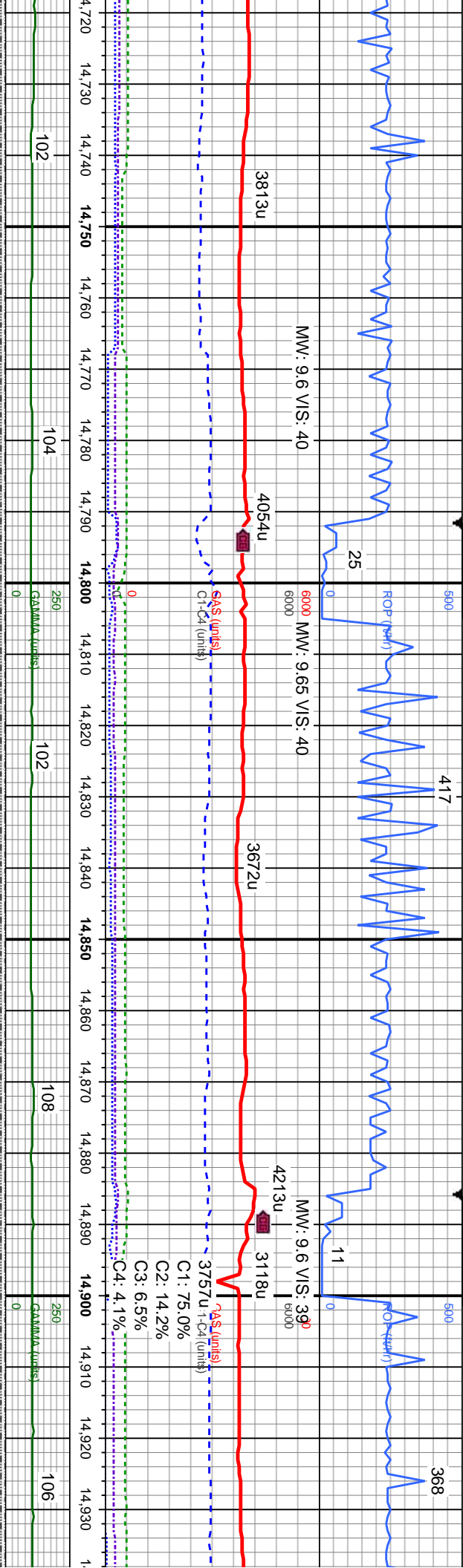












and gy-olk, sft-firm, sb plyy-sb blkly, max, mot ip, occ grnl, sl calc, tr ss; tr bl-wh mod fast strmg cut, ring cut, no flor;

SLTY SH: med gy-blk, sft-firm, sb ply-sb blkly, rthy-sb rthy tex, mot ip, occ grml, sl calc, tr glau, tr lmt, tr ss, tr rust shrs, tr bl-wh mod fast stimg cut, f mod thk yel ring cut, no flor;

SLTY SH: med gy-blk, sft-frm, sb ply-sb blk, rthy-sb rthy tex, mot ip, occ grnl, sl calc, tr glau, tr lmt, tr ss, tr rust strng, tr bl-wh mod fast strng cut, f mod thk yel ring cut, no flor;

SLTY SH: med gy-blk, sft-fm, sb ply-sb blk, rthy-sb rthy tex, mot ip, occ grnl, sl calc, tr glau, tr inst, tr ss, tr pyr, tr bl-wh mod fast sirm cut, f mod thk yel ring cut, no flor,

SLTY SH: med gy-blk, sft-firm, sb plv;  
rthy-sb rthy tex, mot ip, occ grnl, sl c  
glau, tr lmst, tr ss, tr pyr; tr bl-wh mo  
sing cut, f mod thk yel ring cut, no fl

MD: 14,801'  
TVD: 7,054.52'  
Inclination: 90.31°  
Azimuth: 178.19°  
VS: 7,457.2'

MD: 14,895'  
TVD: 7,054.09'  
Inclination: 90.22°  
Azimuth: 178.45°  
VS: 7,551.04'

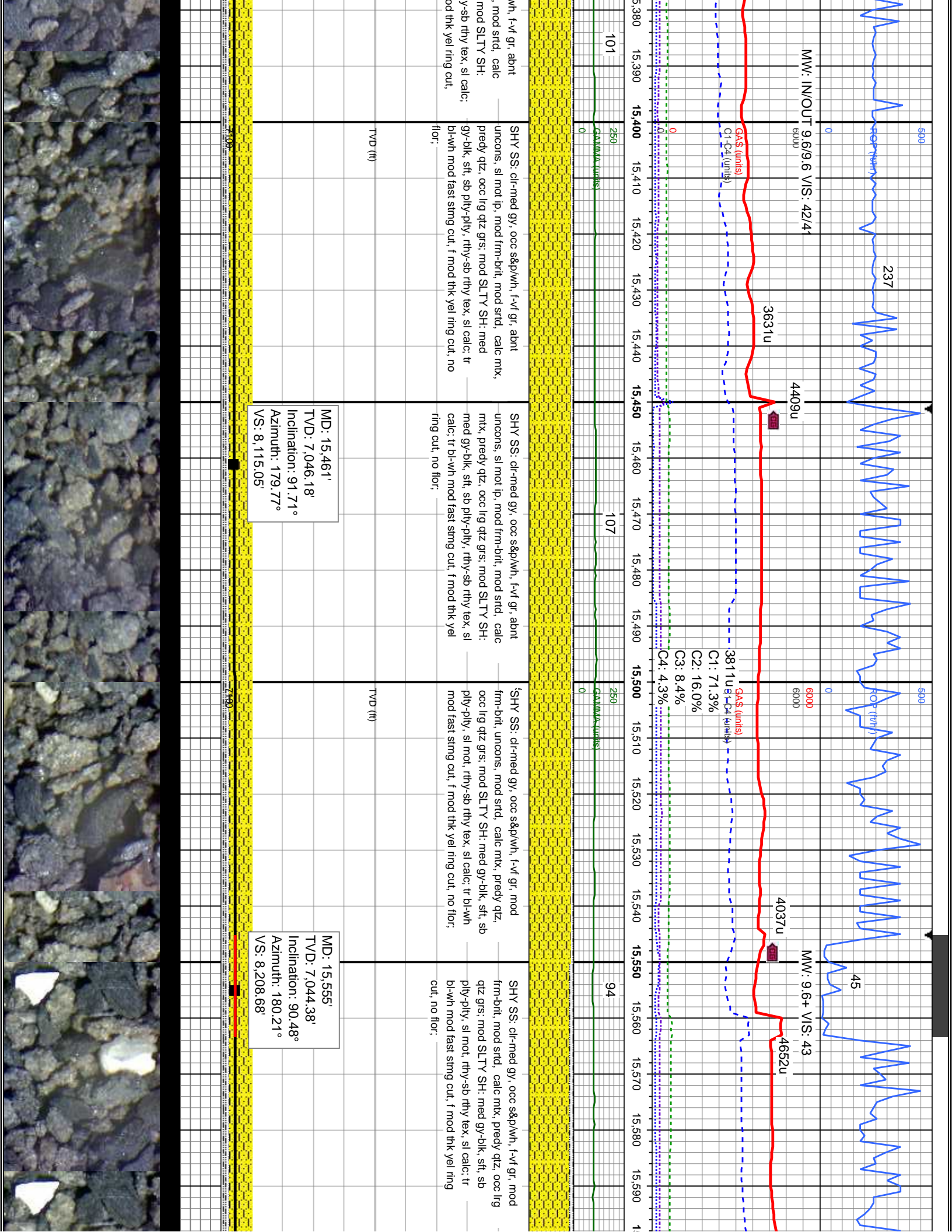




















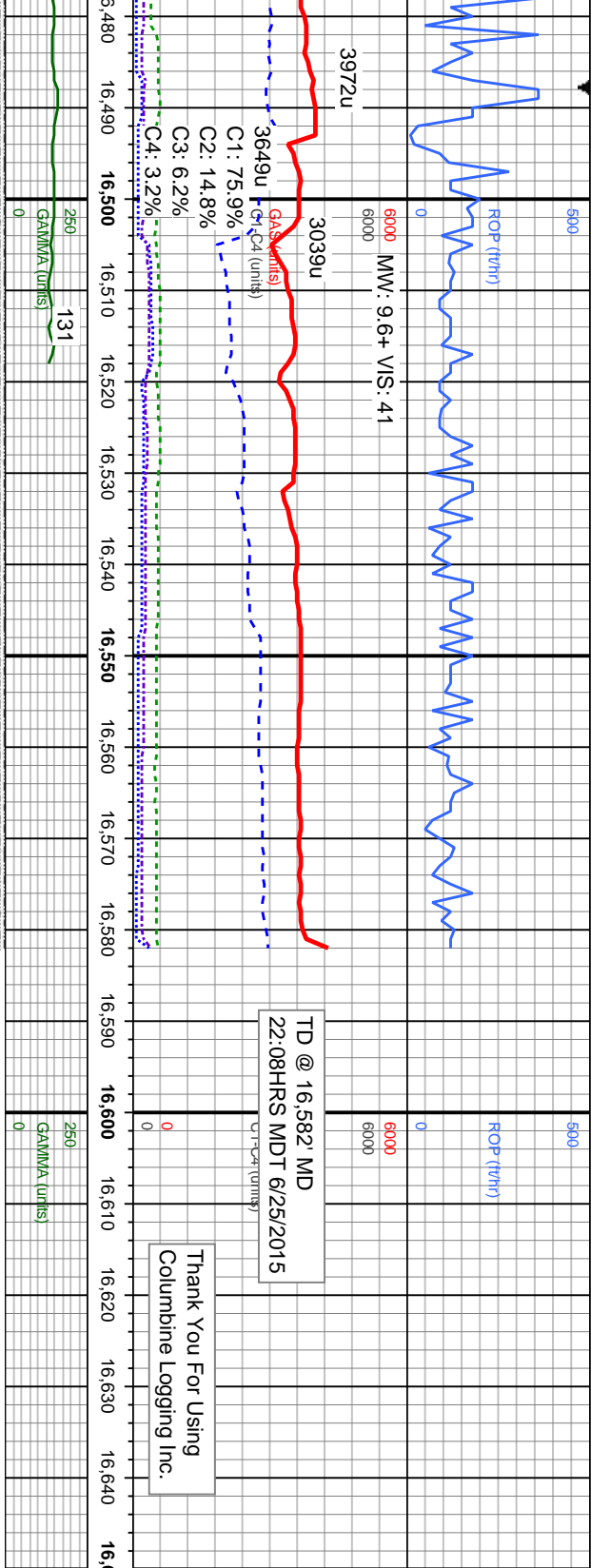












ply-ply, rthy-sb wh mod fast string floor:	SLTY SH: med gy-blk, sft, sb tex, sl calc, tr glau; f bl-wh mod fast string cut, f mod thk yel ring cut, no floor;	SLTY SH: med gy-blk, sft, sb ply-ply, rthy-sb rthy tex, sl calc, tr glau; f bl-wh mod fast string cut, f mod thk yel ring cut, no floor;	5900
TVD (ft)	PROJECTION TO BIT	TVD (ft)	7100
MD: 16,498' TVD: 7,054.81' Inclination: 88.55° Azimuth: 181.08° VS: 9,147.06'	MD: 16,582' TVD: 7,056.94' Inclination: 88.55° Azimuth: 181.08° VS: 9,230.56'		

