



Scale: 5" / 100'
Measured Depth Log

Well Name Walton G-25HN

Location Lat: 40.550227, Long: -104.832879

State Colorado

County Weld

Country USA

Rig Number Frontier 10

API Number 05-123-4141300

AFE # 2014WeldG.25HN

Region DJ Basin

Field Wattenberg

Spud Date 8/8/2015

Drilling Completed 9/15/2015

Surface Coordinates Sec.25-T7N-R67W
827 FNL 252 FEL

Bottom Hole Coordinates Projected:
Sec.25-T7N-R67W
1403 FNL 470 FWL

Ground Elevation 4979'

K.B. Elevation 5001.5'

Logged Interval 6000' To 12253'

Total Depth 12253'

Formation Niobrara C Chalk

Type of Drilling Fluid MMH

Operator

Company Bayswater Exploration and Production LLC.

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

Geologist

Name Charles Trodick, Robert Davis, Tracy Lawson

Company COLUMBINE LOGGING, INC.

Address 602 S. LIPAN ST.
DENVER, CO 80223

Zone Color Coding

Oil
Note
Error

Condensate
Core
Water



Rock Types

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

Accessories

GASTROPOD	ARGILLITE GRAIN	HEAVY MINERAL	
INOCERAMUS	B BENTONITE	K KAOLIN	
ALGAE	BITUMENOUS SUBSTANCE	M MARCASITE	ANHYDRITE STRINGER
AMPHIPORA	BRECCIA FRAGMENTS	TR MARLSTONE	BENTONITE STRINGER
BELEMNITE	PELECYPOD	U MICACEOUS	COAL STRINGER
BIOCLASTIC	PELLET	C CARBONACEOUS FLAKES	DOLOMITE STRINGER
BRACHIOPOD	PISOLITE	MINERAL CRYSTALS	GYPSSUM STRINGER
BRYOZOA	PLANT REMAINS	CHTDK	LIMESTONE STRINGER
CEPHALOPOD	PLANT SPORES	CHTLT	DOLOMITE STRINGER
CORAL	SCAPHOPOD	COAL - THIN BEDS	SHALE STRINGER
CRINOID	STROMATOPOROID	DOLOMITIC	SILTSTONE STRINGER
ECHINOID		FELDSPAR	
FISH	Minerals	FERRUGINOUS PELLET	
FORAMINIFERA	ANHYDRITIC	FERRUGINOUS	
F FOSSIL	ARGILLACEOUS	GLAUCONITE	
		GYPSSIFEROUS	
			SILTY
			TUFFACEOUS

Oil Show

P PINPOI
V VUGG

Engin






































D DEAD
EVEN
QUESTIONABLE
BIT
SPOTTED STAINING
CONN

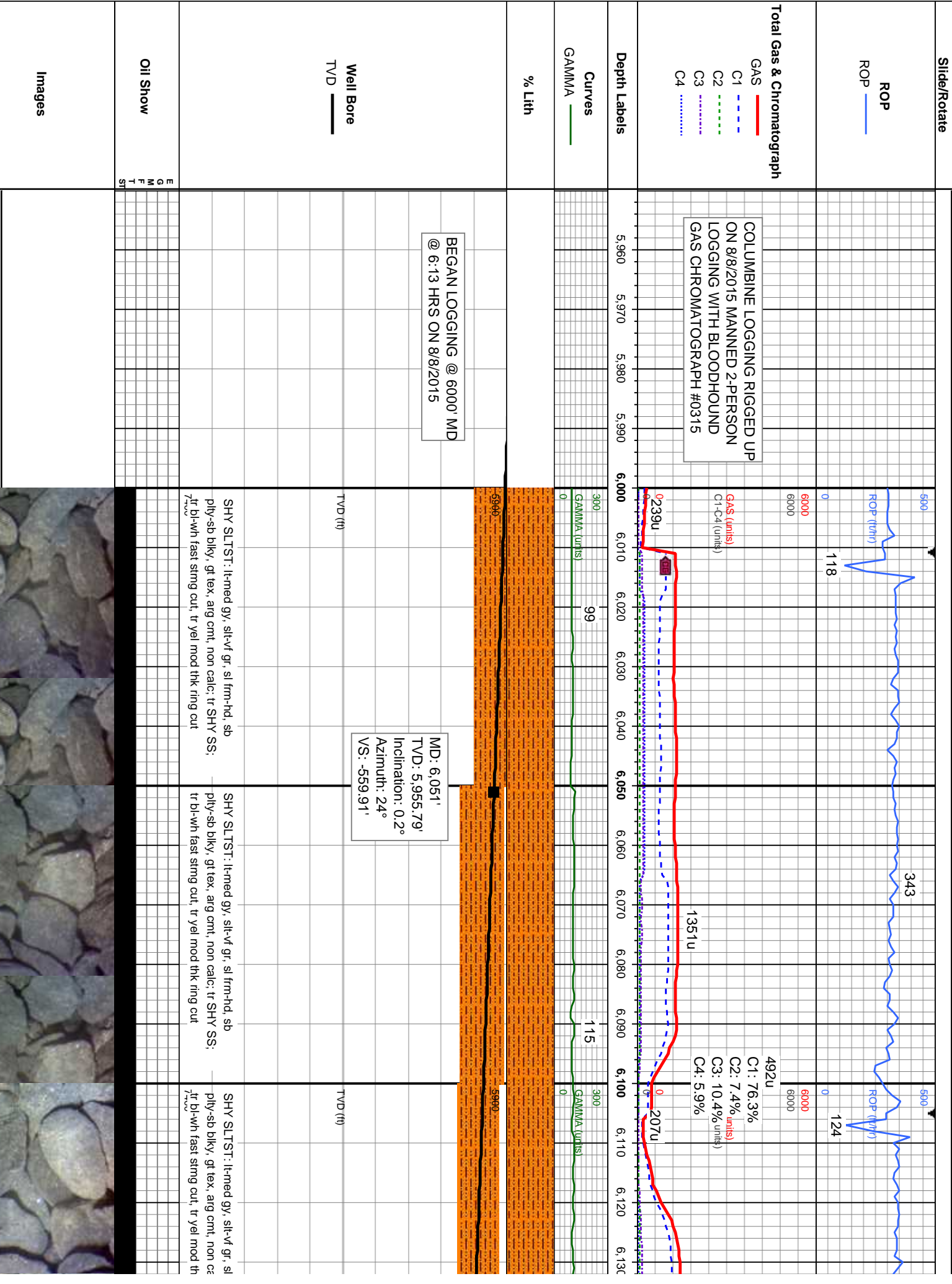
Porosity

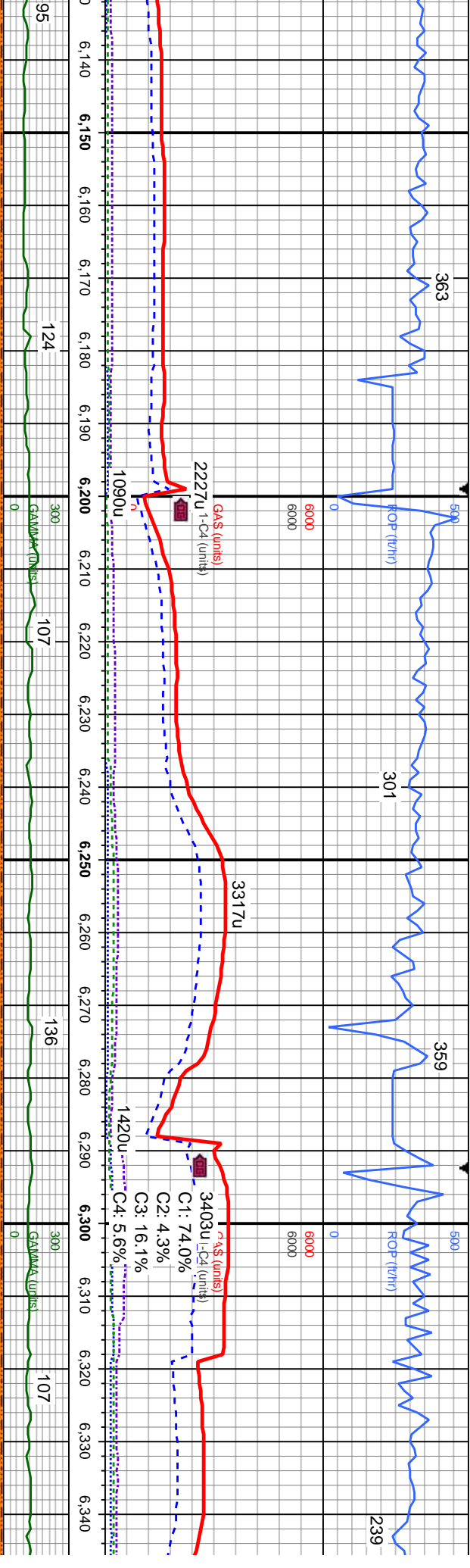
CONN
CON
FENESTRAL
TRIP
FRACTURE
TRIF
INTERCRYSTALLINE
DOWN
INTEROOLITIC
DO
MOLDIC
CORE
ORGANIC
CORE

Gas
Pressure
Seal

Other Symbols

INT		DST INTERVAL		WIRELINE TESTED - LEFT		E EARTHY
Y		FAULT		WIRELINE TESTED - RT		FX FINELYXLN
neering						
		FORMATION TOP		DRILL STEM TEST		GS GRAINSTONE
		GAS SHOW		MN DEPTH		L LITHOGRAPHIC
		OIL SHOW				MX MICROXLN
Rounding						
ECTION (UP)		MN DEPTH UP				MS MUDSTONE
ECTION (DOWN)		MN DEPTH (DOWN)		ANGULAR		PS PACKSTONE
NECTION GAS		NORMAL FAULT		ROUNDED		WS WAKESTONE
INNECTION GAS (LEFT)		OVERTURNED STRATA		SUBANG		
GAS		REVERSE FAULT		SUBRND		
P GAS (LEFT)		CASING				M MODERATE
Textures						
N TIME GAS		SIDEWALL CORE (LEFT)				P POOR
WVN TIME GAS (LEFT)		SIDEWALL CORE (RIGHT)		BOUNDSTONE		W WELL
- LOST		SLIDE		CHALKY		
- RECOVERED		SURVEY		CRYPTOXLN		





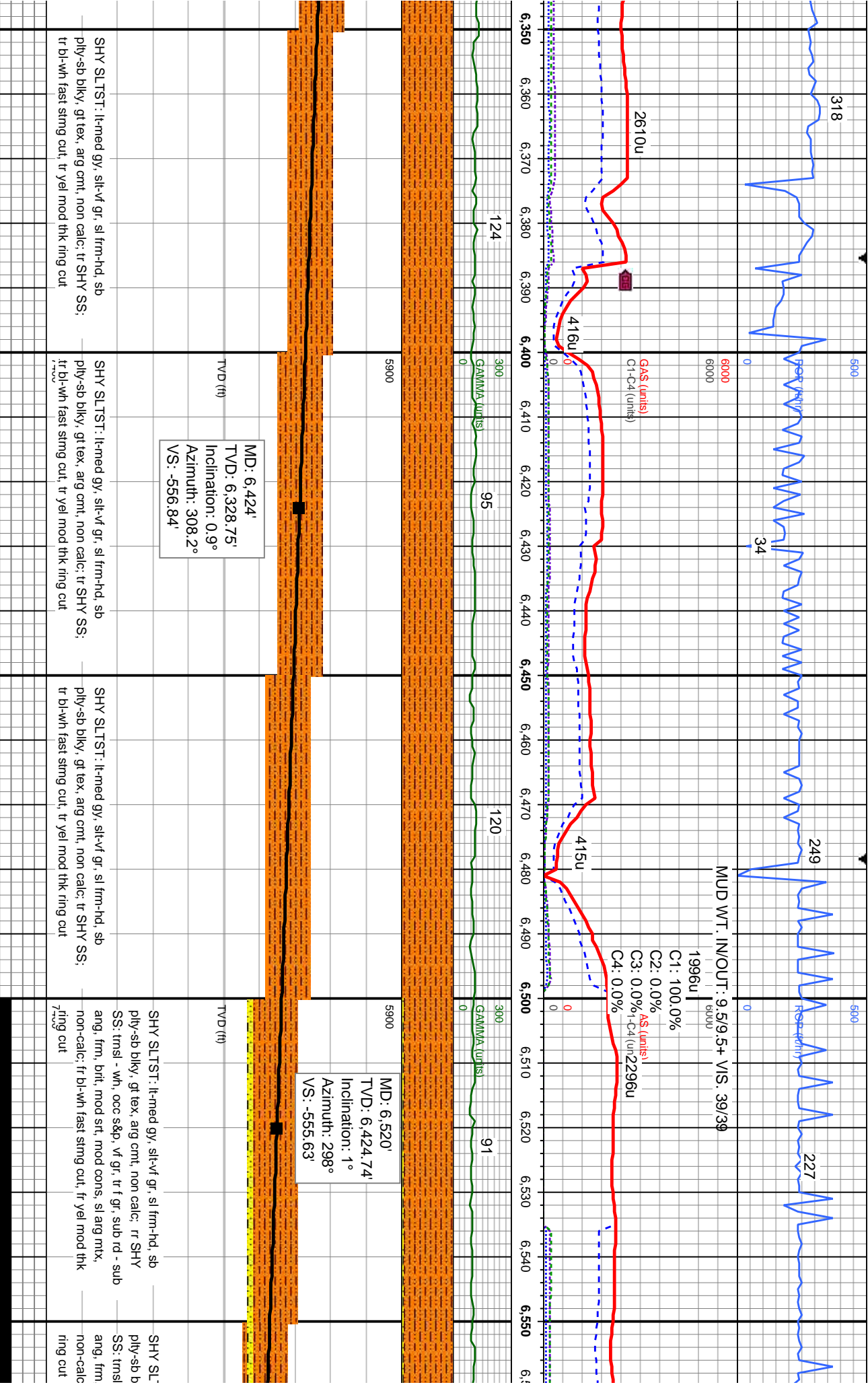
MD: 6,144'
TVD: 6,048.79'
Inclination: 0.4°
Azimuth: 315.3°
VS: -559.8'

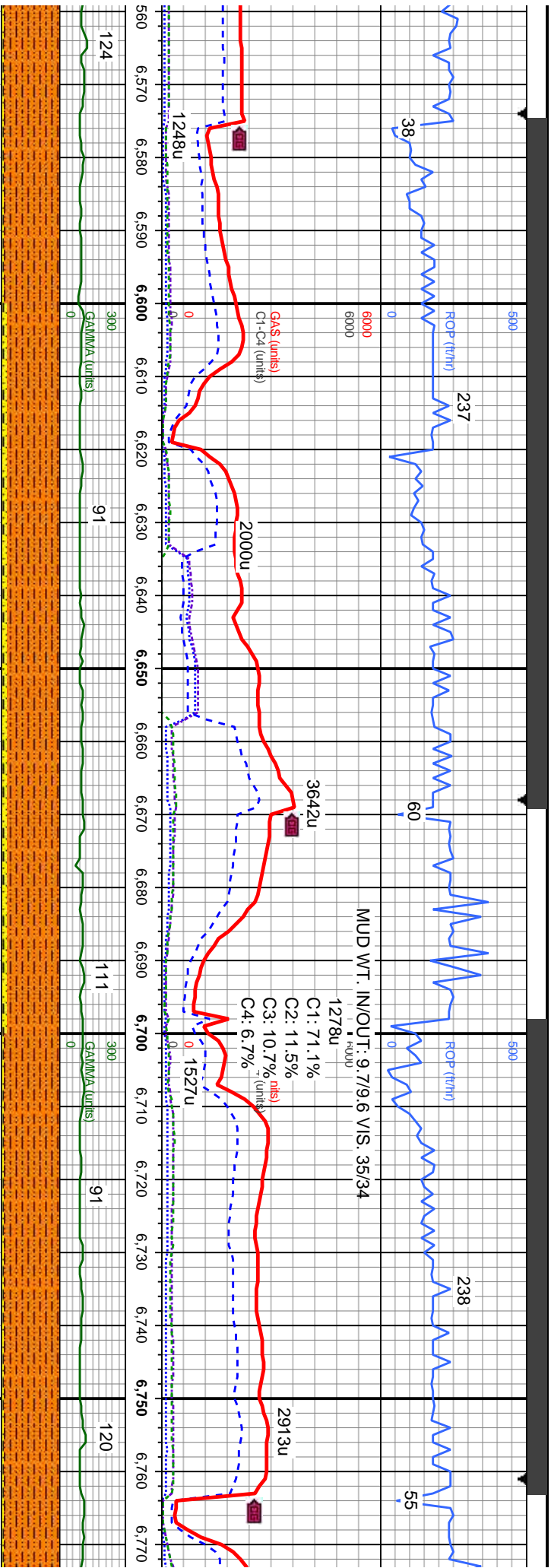
MD: 6,238'
TVD: 6,142.78'
Inclination: 1.1°
Azimuth: 311.6°
VS: -559.02'

MD: 6,331'
TVD: 6,235.76'
Inclination: 1°
Azimuth: 310°
VS: -557.89'

1 ftm-hd, sb alc; tr SHY SS; rk ring cut	SHY SLTST: lt-med gy, slt-vf gr, sl frm-hd, sb ply-sb blkly, gt tex, arg cmt, non calc; tr SHY SS; tr bl-wh fast sting cut, tr yel mod thk ring cut	SHY SLTST: lt-med gy, slt-vf gr, sl frm-hd, sb ply-sb blkly, gt tex, arg cmt, non calc; tr SHY SS; tr bl-wh fast sting cut, tr yel mod thk ring cut	SHY SLTST: lt-med gy, slt-vf gr, sl frm-hd, sb ply-sb blkly, gt tex, arg cmt, non calc; tr SHY SS; tr bl-wh fast sting cut, tr yel mod thk ring cut	SHY SLTST: lt-med gy, slt-vf gr, sl frm-hd, sb ply-sb blkly, gt tex, arg cmt, non calc; tr SHY SS; tr bl-wh fast sting cut, tr yel mod thk ring cut
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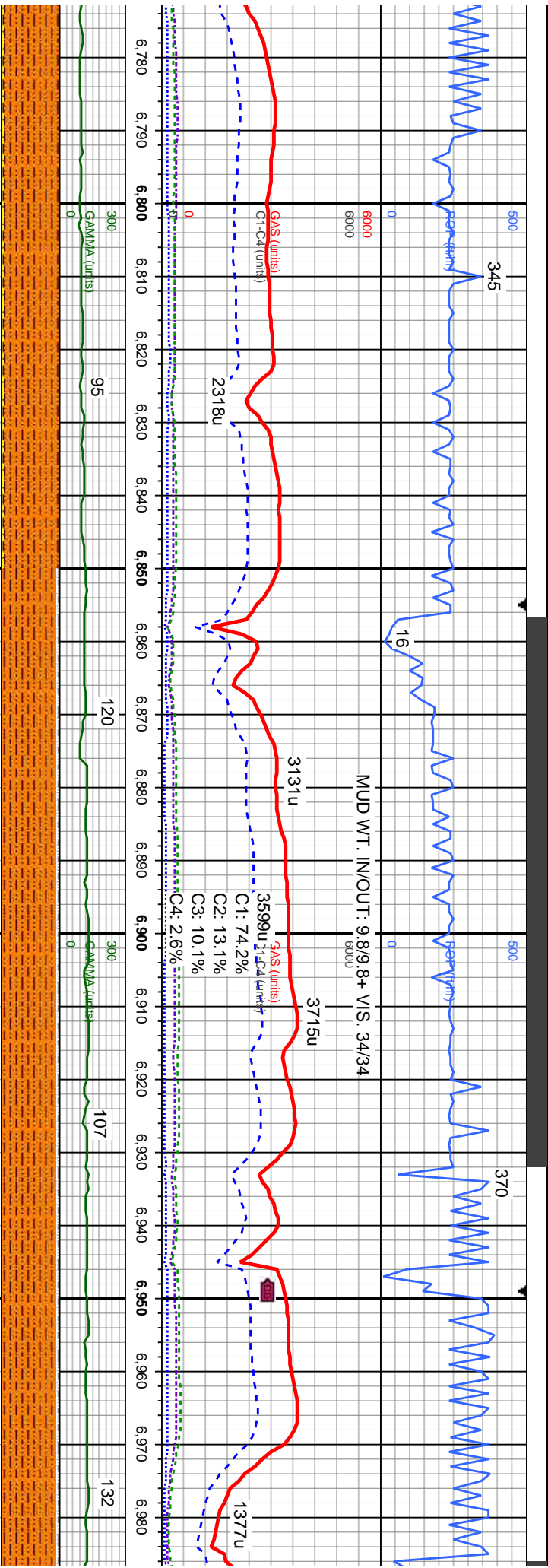


MD: 6,614'
TVD: 6,518.55'
Inclination: 6.2°
Azimuth: 282.4°
VS: -550.2'

MD: 6,707'
TVD: 6,610.2'
Inclination: 13.4°
Azimuth: 275.4°
VS: -534.97'

SHY SLTST: lt-med gy, slt-vf gr, sl frm-hd, sb	SHY SLTST: lt-med gy, slt-vf gr, sl frm-hd, sb	SHY SLTST: lt-med gy, slt-vf gr, sl frm-hd, sb	SHY SLTST: lt-med gy, slt-vf gr, sl frm-hd, sb
ply-sb blkly, gt tex, arg cmt, non calc; rr SHY	ply-sb blkly, gt tex, arg cmt, non calc; rr SHY	ply-sb blkly, gt tex, arg cmt, non calc; rr SHY	ply-sb blkly, gt tex, arg c
SS: trnsl - wh, occ s&p, vf gr, tr f gr, sub rd - sub	SS: trnsl - wh, occ s&p, vf gr, tr f gr, sub rd - sub	SS: trnsl - wh, occ s&p, vf gr, tr f gr, sub rd - sub	SS: trnsl - wh, occ s&p, 'r
ang, frm, brt, mod srt, mod cons, sl arg mtk,	ang, frm, brt, mod srt, mod cons, sl arg mtk,	ang, frm, brt, mod srt, mod cons, sl arg mtk,	ang, frm, brt, mod srt, r
non-calc; fr bl-wh fast string cut, fr yel mod thk	non-calc; fr bl-wh fast string cut, fr yel mod thk	non-calc; fr bl-wh fast string cut, fr yel mod thk	non-calc; fr bl-wh fast sti
ring cut	ring cut	ring cut	ring cut





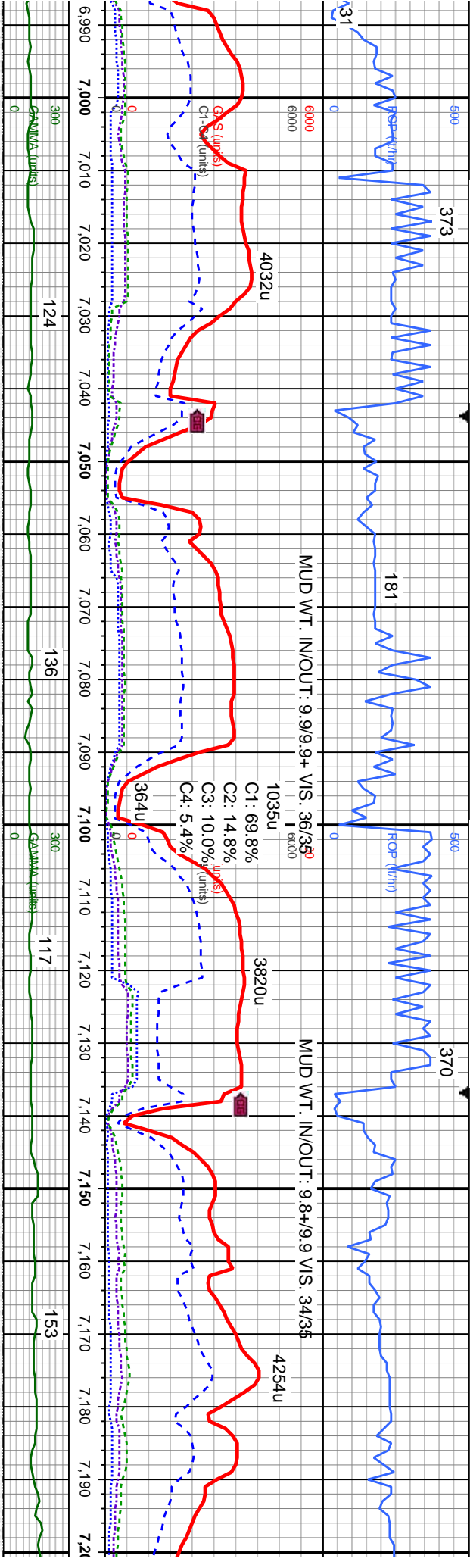
MD: 6,801'
TVD: 6,700.67'
Inclination: 18.1°
Azimuth: 272.4°
VS: -509.98'

MD: 6,895'
TVD: 6,788.83'
Inclination: 22.5°
Azimuth: 269.2°
VS: -477.74'

MD: 6,
TVD: 6,
Inclina
Azimu
VS: -4

slt-vf gr, sl frm-hd, sb nt, non calc; rr SHY vf gr, tr f gr, sub rd - sub	SHY SLTST: lt-med gy, slt-vf gr, sl frm-hd, sb ply-sb blkly, gt tex, arg cnt, non calc; rr SHY SS: tmsl - wh, ooc s&p, vf gr, tr f gr, sub rd - sub	SHY SLTST: lt-med gy, ooc dk gy-blk slt-vf gr, sl frm-hd, sb ply-sb blkly, gt tex, arg cnt, sh incl, non-calc; rr SLTY SH: med-dk gy, slt-mic gr, sl frm, sb ply-ply, rthy-sb rthy tex, mot ip, non-calc; fr bl-wh fast sting cut, fr yel mod thk ring cut	SHY SLTST: lt-med gy, ooc dk gy-blk slt-vf gr, sl frm-hd, sb ply-sb blkly, gt tex, arg cnt, sh incl, non-calc; rr SLTY SH: med-dk gy, slt-mic gr, sl frm, sb ply-ply, rthy-sb rthy tex, mot ip, non-calc; fr bl-wh fast sting cut, fr yel mod thk ring cut
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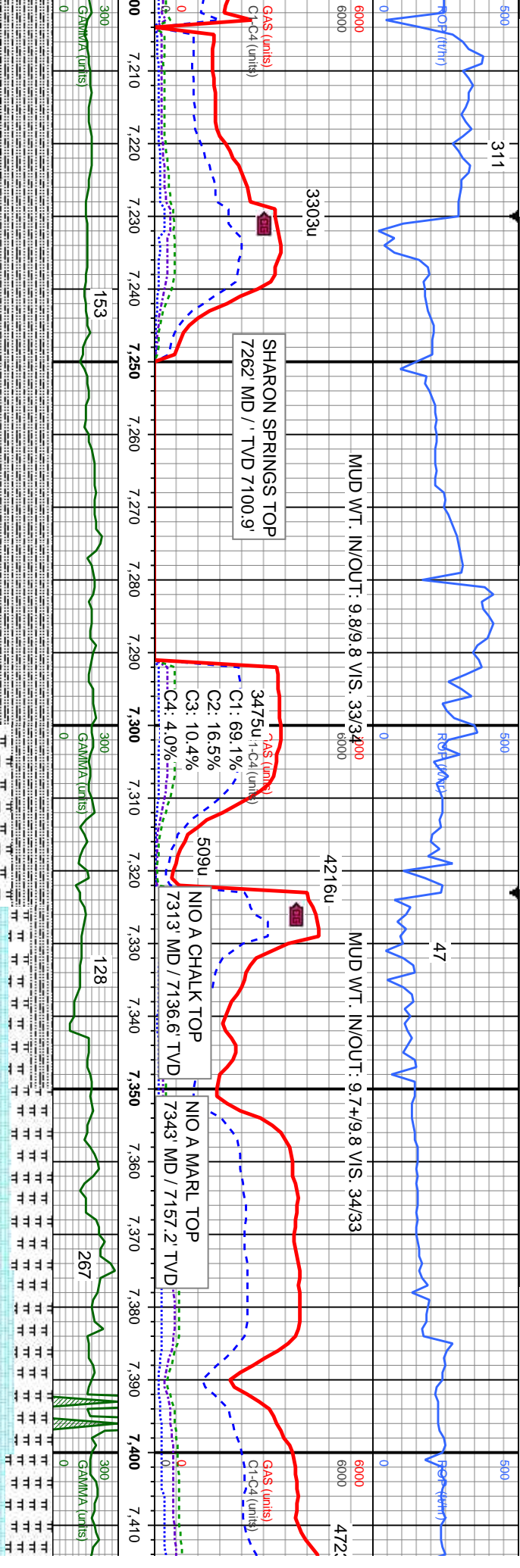


SHY SLTST: lt-med gy, occ dk gy-blk silt-vf gr, sl frm-hd, sb ply-sb blk, gt tex, arg cnt, sh incl, non-calc; r SLTY SH: med-dk gy, silt-mic gr, sl frm, sb ply-ply, rthy-sb rthy tex, mot ip, non-calc; fr bl-wh fast string cut, fr yel mod thk ring cut	SHY SLTST: lt-med gy, occ dk gy-blk silt-vf gr, sl frm-hd, sb ply-sb blk, gt tex, arg cnt, sh incl, non-calc; r SLTY SH: med-dk gy, silt-mic gr, sl frm, sb ply-ply, rthy-sb rthy tex, mot ip, non-calc; fr bl-wh fast string cut, fr yel mod thk ring cut	SHY SLTST: lt-med gy, occ dk gy-blk silt-vf gr, sl frm-hd, sb ply-sb blk, gt tex, arg cnt, sh incl, non-calc; r SLTY SH: med-dk gy, silt-mic gr, sl frm, sb ply-ply, rthy-sb rthy tex, mot ip, non-calc; fr bl-wh fast string cut, fr yel mod thk ring cut	SLTY SH: med-dk gy, silt-mic gr, sl frm, sb ply-ply, rthy-sb rthy tex, mot ip, non-calc; mod SHY SLTST: lt-med gy, silt-vf gr, sl frm, sb ply-sb blk, gt tex, arg cnt, non-calc; fr bl-wh fast string cut, fr yel mod thk ring cut
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MD: 7.083' TVD: 6,957.2' Inclination: 31.4° Azimuth: 272.7° VS: -395.28'	MD: 7.176' TVD: 7,034.93' Inclination: 35.2° Azimuth: 272.2° VS: -345.03'
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3,874.63'	39.64'	989'
tion: 25.7°	TVD (ft)	
th: 269°		
ut	7400	7400





59SLTY SH: med-dk gy, silt-mic gr, sl frm, sb
ply-pty, rthy-sb rthy tex, mot ip, non-calc; tr
SHY SLTST: lt-med gy, silt-vf gr, sl frm, sb
ply-sb blkly, gt tex, arg cmt, non-calc; fr bl-wh
fast string cut, fr yel mod thk ring cut

SLTY SH: med-dk gy, silt-mic gr, sl frm, sb
ply-pty, rthy-sb rthy tex, mot ip, non-calc; tr
SHY SLTST: lt-med gy, silt-vf gr, sl frm, sb ply-sb
blkly, gt tex, arg cmt, non-calc; fr bl-wh fast string
cut, fr yel mod thk ring cut

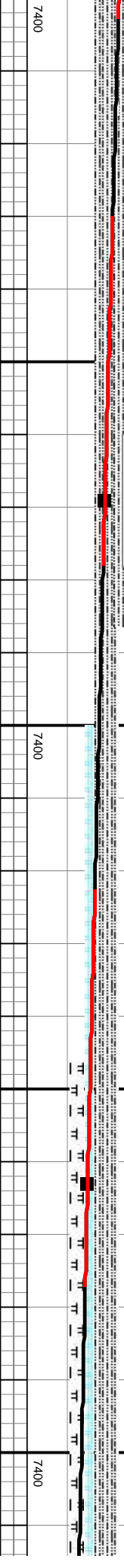
SLTY SH: med-dk gy, silt-mic gr, sl frm, sb ply-pty,
rthy-sb rthy tex, mot ip, non-calc; mod MRLST:
med-dk gy, sl frm, ply-sb ply, rthy-gt tex, sl mot,
calc; r CHK: lt-med gy, mot-str, mod sft, sb blkly-sb
ply, sm-rthy tex, v calc; no min flor, fr bl-wh fast
string cut, fr yel mod thk ring cut

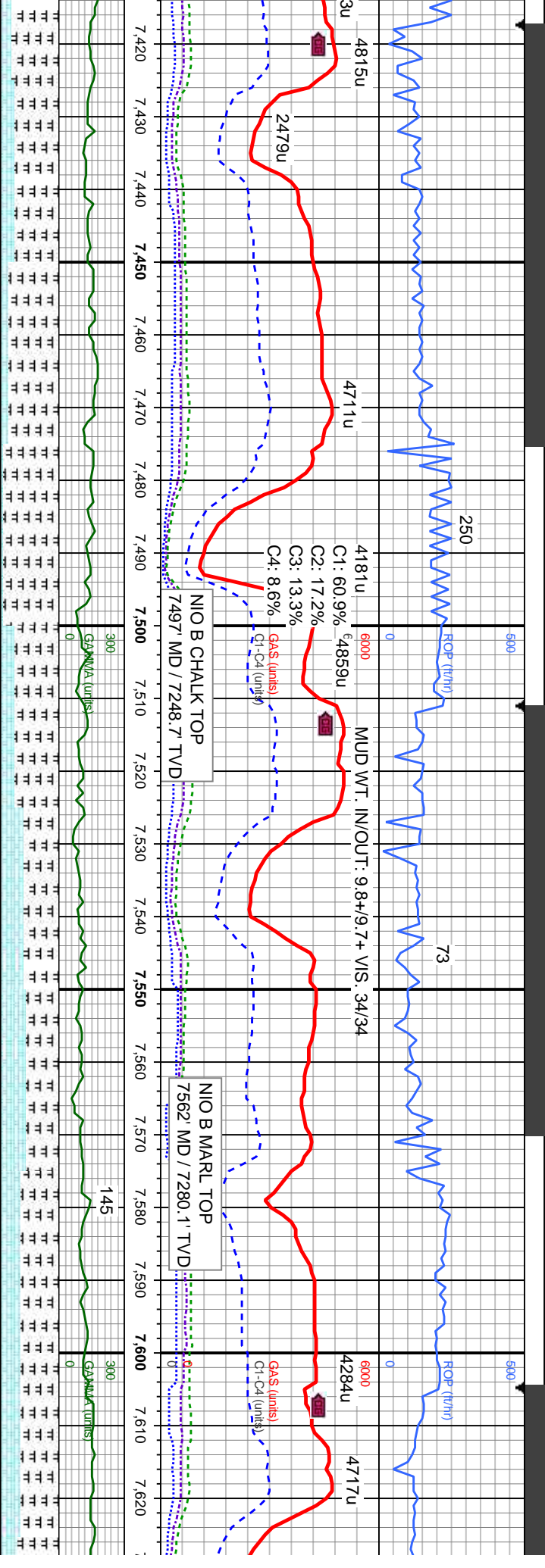
MRLST: med-dk gy, sl frm, ply-sb ply, rthy-gt
tex, sl mot, calc; occ CHK: lt-med gy, mot-str,
mod sft, sb blkly-sb ply, sm-rthy tex, v calc; no
min flor, difse bl-wh fast string cut, fr yel mod thk
ring cut

MRLST: med-dk
tex, sl mot, cal
sft, sb blkly-sb
difse bl-wh fast

MD: 7,269'
TVD: 7,106.59'
Inclination: 44°
Azimuth: 269.4°
VS: -286.47'

MD: 7,363'
TVD: 7,171.24'
Inclination: 49.1°
Azimuth: 269.9°
VS: -218.82'

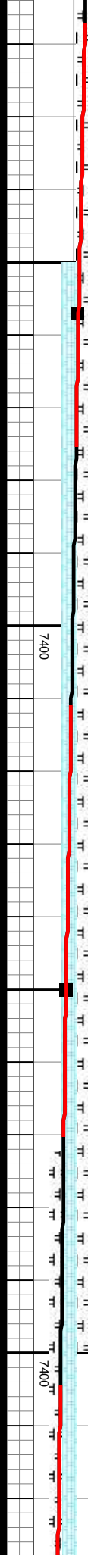


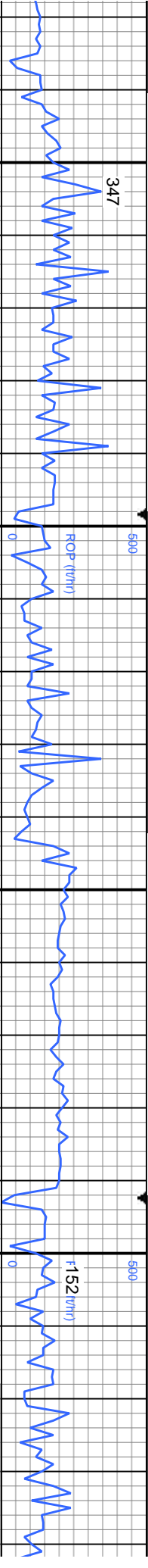


dk gy, sl frm, pily-sb pily, rthy-gt	MRLST: med-dk gy, sl frm, pily-sb pily, rthy-gt	5MRLST: med-dk gy, sl frm, pily-sb pily, rthy-gt	CHK: crm-whi, mot brn, lt-med gy, mot-sfr, mod sfr, sb biky-sb pily, sm-rthy - sb-wxy tex, v calc: occ MRLST: med-dk gy, sl frm, brit, pily-sb pily, rthy-gt tex, sl silty mix, v calc: no min flor, bl-wh fast sting cut, fr yel mod thk ring cut	5MRLST: med-dk gy, sl frm, pily-sb pily, rthy-gt	590MRLST: med-dk gy, sl frm, rthy-gt tex, sl silty mix, v ca crm-whi, mot brn, lt-med g: sb biky-sb pily, sm-rthy - sl min flor, bl-wh fast sting cu cut
c: r CHK: lt-med gy, mot-sfr, mod pily, sm-rthy tex, v calc: no min flor, t sting cut, fr yel mod thk ring cut	tex, sl mot, calc: tr CHK: lt-med gy, mot-sfr, mod sfr, sb biky-sb pily, sm-rthy tex, v calc: no min flor, difse bl-wh fast sting cut, fr yel mod thk ring cut	tex, sl mot, calc: tr CHK: crm, lt-med gy, mot-sfr, mod sfr, sb biky-sb pily, wxy-rthy tex, v calc: no min flor, difse bl-wh fast sting cut, fr yel mod thk ring cut			

MD: 7,457'
TVD: 7,228.79'
Inclination: 55.4°
Azimuth: 267.1°
VS: -144.98

MD: 7,550'
TVD: 7,275.85'
Inclination: 63.8°
Azimuth: 267.5°
VS: -65.15'



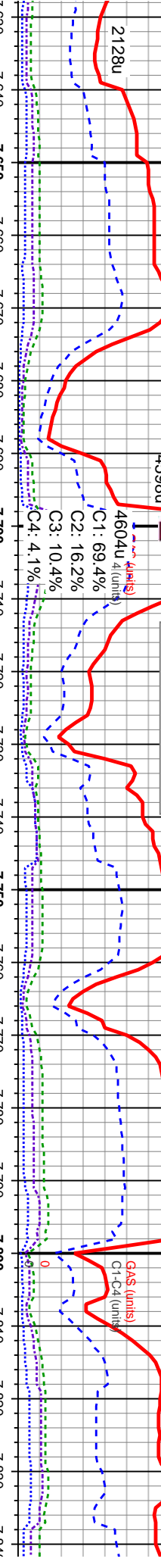


MUD WT. IN/OUT: 9.9/9.7 + VIS. 35/35

NIO C CHALK TOP
7679' MD / 7321.2' TVD

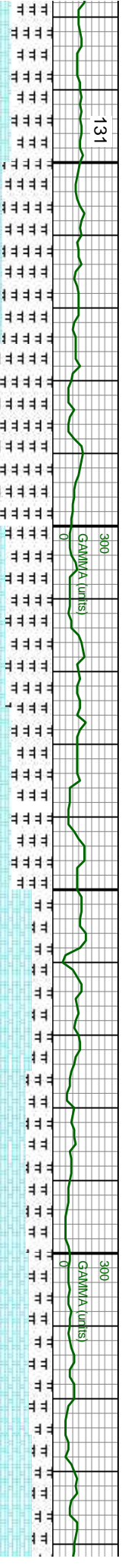
4553u

NIO C MARL TOP
7831' MD / 7353.3' TV



4598u
4604u
C1: 69.4%
C2: 16.2%
C3: 10.4%
C4: 4.1%

GA5 (units)
C1-C4 (units)



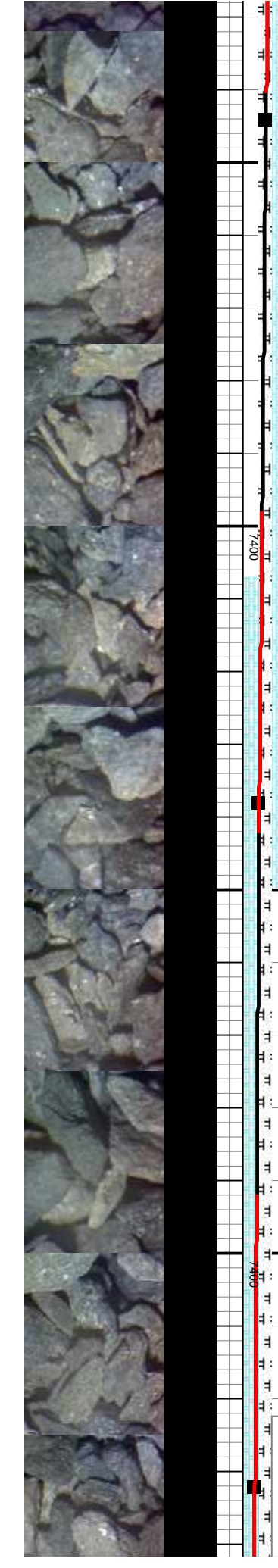
GAMMA (units)

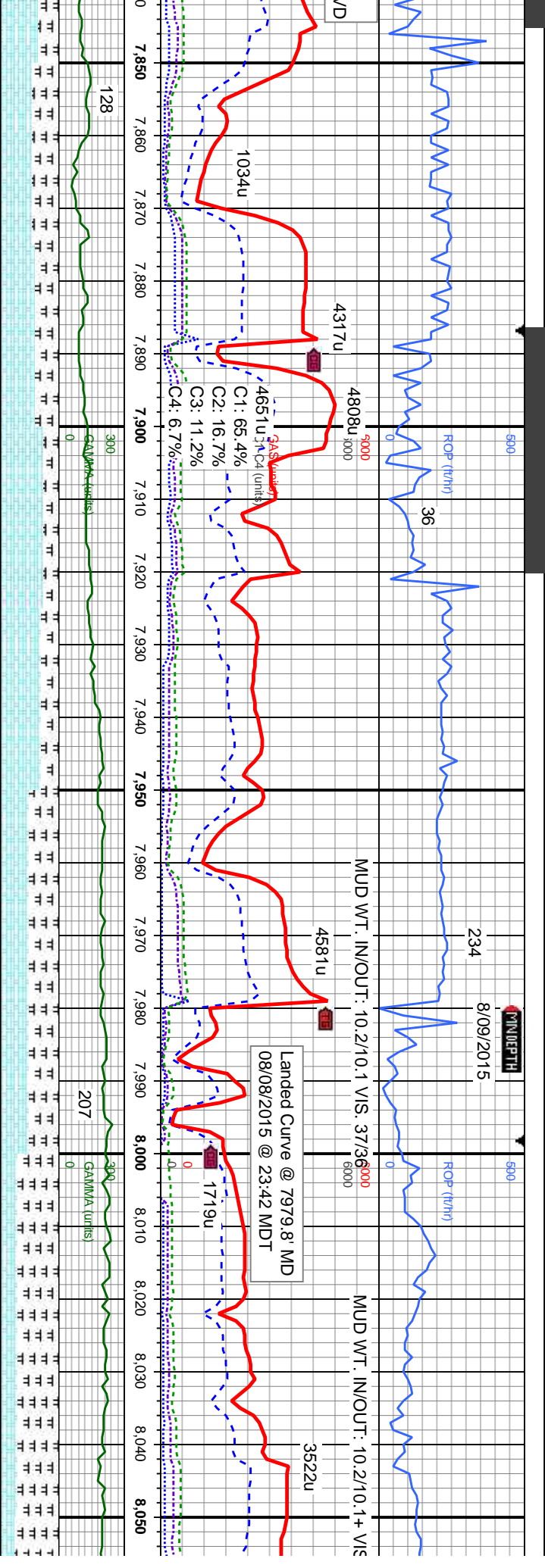
Depth (ft)	Log Description
7,630 - 7,640	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,640 - 7,650	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,650 - 7,660	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,660 - 7,670	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,670 - 7,680	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,680 - 7,690	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,690 - 7,700	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,700 - 7,710	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,710 - 7,720	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,720 - 7,730	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,730 - 7,740	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,740 - 7,750	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,750 - 7,760	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,760 - 7,770	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,770 - 7,780	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,780 - 7,790	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,790 - 7,800	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,800 - 7,810	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,810 - 7,820	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,820 - 7,830	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring
7,830 - 7,840	brit, pily-sb pily, lc: fr-occ CHK: y: mot-str, mod sft, -wxy tex, v calc: no fr yel mod thk ring

MD: 7,644'
TVD: 7,311.9'
Inclination: 71.1°
Azimuth: 268°
VS: 21.2'

MD: 7,738'
TVD: 7,337.88'
Inclination: 76.8°
Azimuth: 265.5°
VS: 111.21'

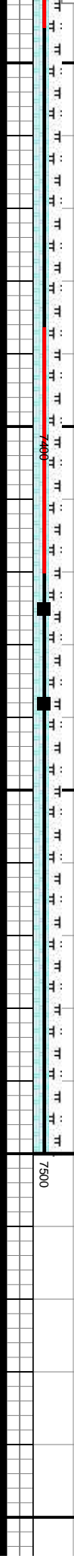
MD: 7,832'
TVD: 7,353.8'
Inclination: 83.7°
Azimuth: 268°
VS: 203.5'

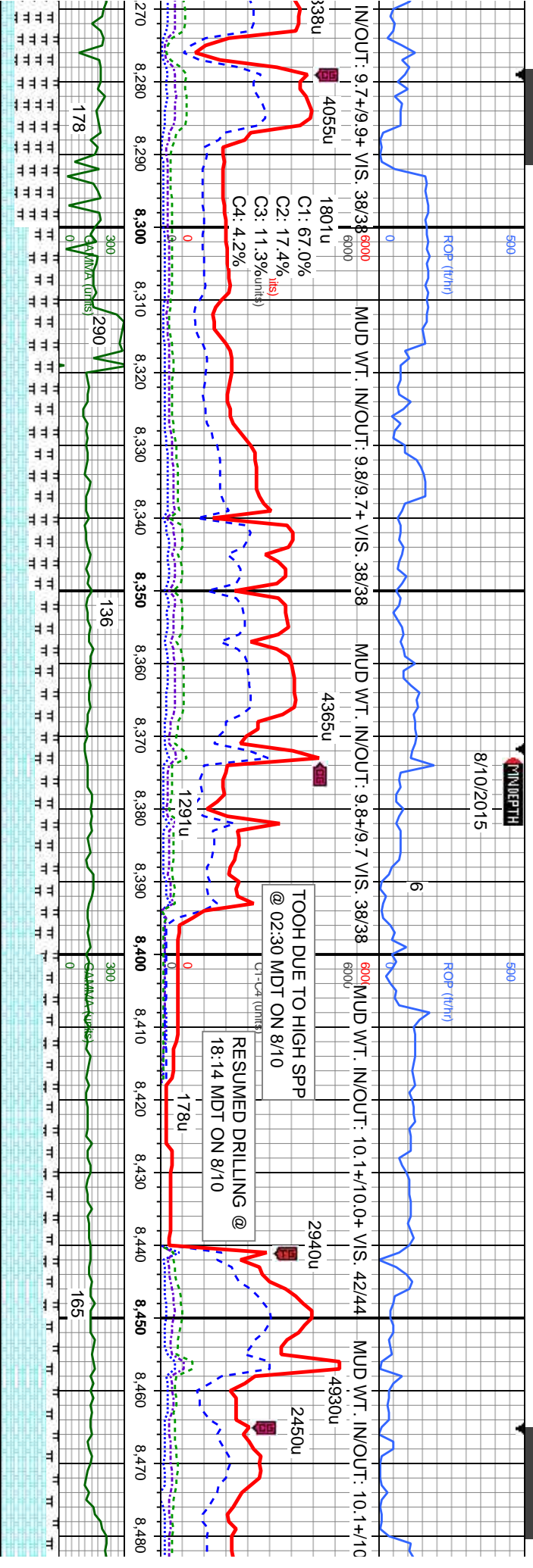




CHK: lt-med gy, occ lt brn, mod-str, mod sft-firm, sb biky-sb ply, sm-rthy - sb-wxy tex, v calc; occ - abnt MRLST: med-dk gy, sl frm, brit, ply-sb ply, rthy-gt tex, sl sily mix, v calc; fr bl-wh fast string cut, fr yel mod thk ring cut	⁵ CHK: lt-med gy, occ lt brn, mod-str, mod sft-firm, sb biky-sb ply, sm-rthy - sb-wxy tex, v calc; occ MRLST: med-dk gy, sl frm, brit, ply-sb ply, rthy-gt tex, sl sily mix, v calc; fr bl-wh fast string cut, fr yel mod thk ring cut	CHK: lt-med gy, occ lt brn, mod-str, mod sft-firm, sb biky-sb ply, sm-rthy - sb-wxy tex, v calc; abnt MRLST: med-dk gy, sl frm, brit, ply-sb ply, rthy-gt tex, sl sily mix, v calc; fr bl-wh fast string cut, fr yel mod thk ring cut	MRLST: med-dk gy, sl frm, brit, ply-sb ply, rthy-gt tex, sl sily mix, v calc; occ CHK: lt-med gy, occ crm, mod-str, mod sft-firm, sb biky-sb ply, sm-rthy - sb-wxy tex, v calc; no min flr, dflse bl-wh fast string cut, fr yel mod thk ring cut
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TVD (ft)	MD: 7.925' TVD: 7.358.43' Inclination: 90.6° Azimuth: 269.4° VS: 295.73'	MD: 7.938' TVD: 7.358.27' Inclination: 90.8° Azimuth: 269.4° VS: 308.63'	TVD SCALE CHANGE	TVD (ft)	MD: 8.031' TVD: 7.356.48' Inclination: 91.4° Azimuth: 268.5° VS: 400.97'
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n - hd, brit, pily-sb pily, rthy-gt
c: r CHK: lt gy, occ med gy,
fri ip, sb biky, sm-rthy - sb-wxy
cr, difse bl-wh fast sting cut, fr mod thk ring cut

CHK: lt gy, rr med gy, sl mot, mod sft-frm, fri ip, sb biky, sm-rthy - sb-wxy tex, v calc: abnt MRLST: dk gy, sl frm - hd, brit, pily-sb pily, rthy-gt tex, sl sily, v calc: no min flr, difse bl-wh fast sting cut, fr yel mod thk ring cut

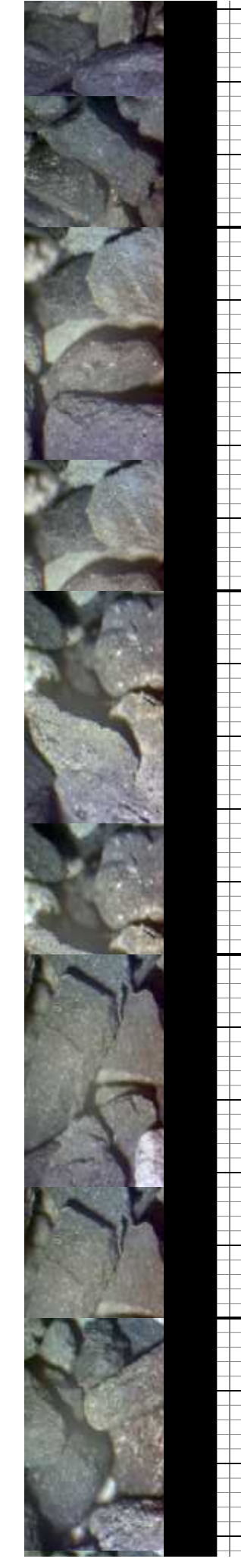
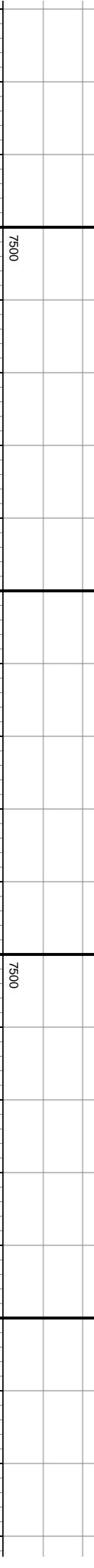
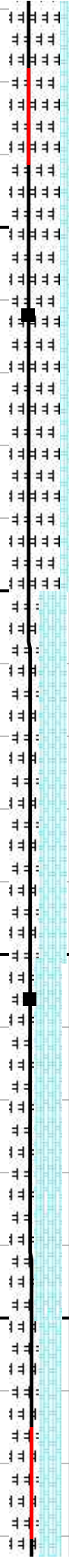
CHK: lt gy, rr med gy, sl mot, mod sft-frm, fri ip, sb biky, sm-rthy - sb-wxy tex, v calc: abnt MRLST: dk gy, sl frm - hd, brit, pily-sb pily, rthy-gt tex, sl sily, v calc: no min flr, difse bl-wh fast sting cut, fr yel mod thk ring cut

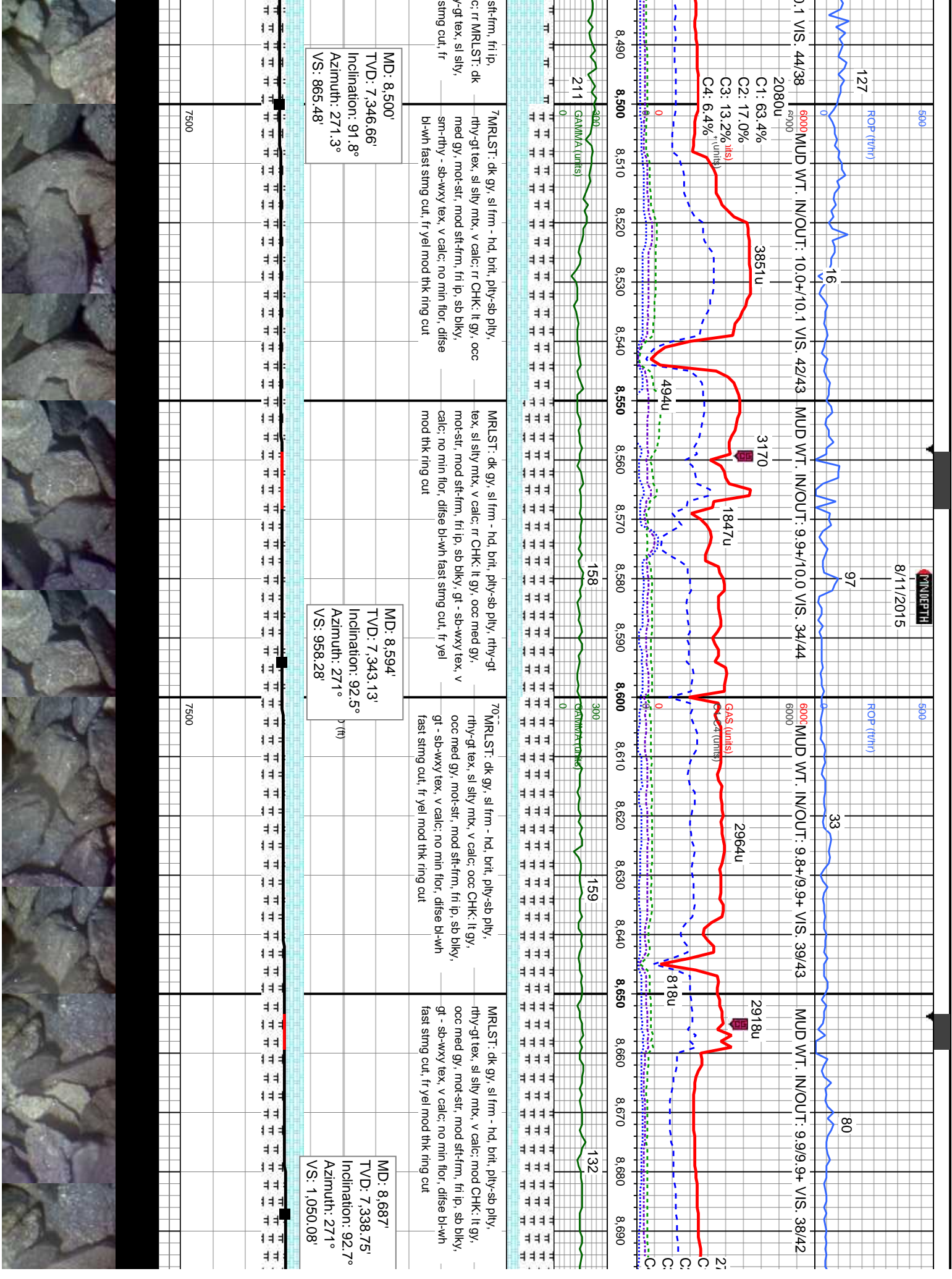
700CHK: lt gy, rr med gy, sl mot, mod sft-frm, fri ip, sb biky, sm-rthy - sb-wxy tex, v calc: r MRLST: dk gy, sl frm - hd, brit, pily-sb pily, rthy-gt tex, sl sily, v calc: no min flr, difse bl-wh fast sting cut, fr yel mod thk ring cut

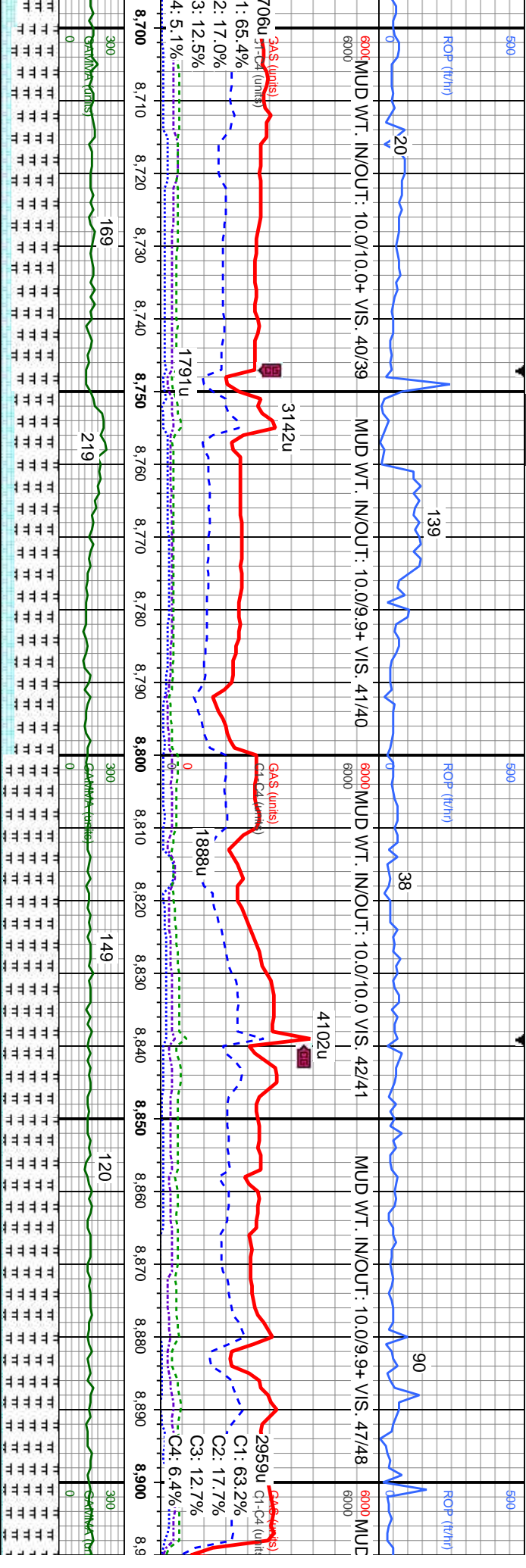
CHK: lt gy, rr med gy, sl mot, mod sft-frm, fri ip, sb biky, sm-rthy - sb-wxy tex, v calc: r MRLST: dk gy, sl frm - hd, brit, pily-sb pily, rthy-gt tex, sl sily, v calc: no min flr, difse bl-wh fast sting cut, fr yel mod thk ring cut

MD: 8,312'
TVD: 7,350.84'
Inclination: 90.9°
TV Azimuth: 269.8°
VS: 679.58'

MD: 8,406'
TVD: 7,349.12'
Inclination: 91.2°
Azimuth: 270.8°
VS: 772.63'

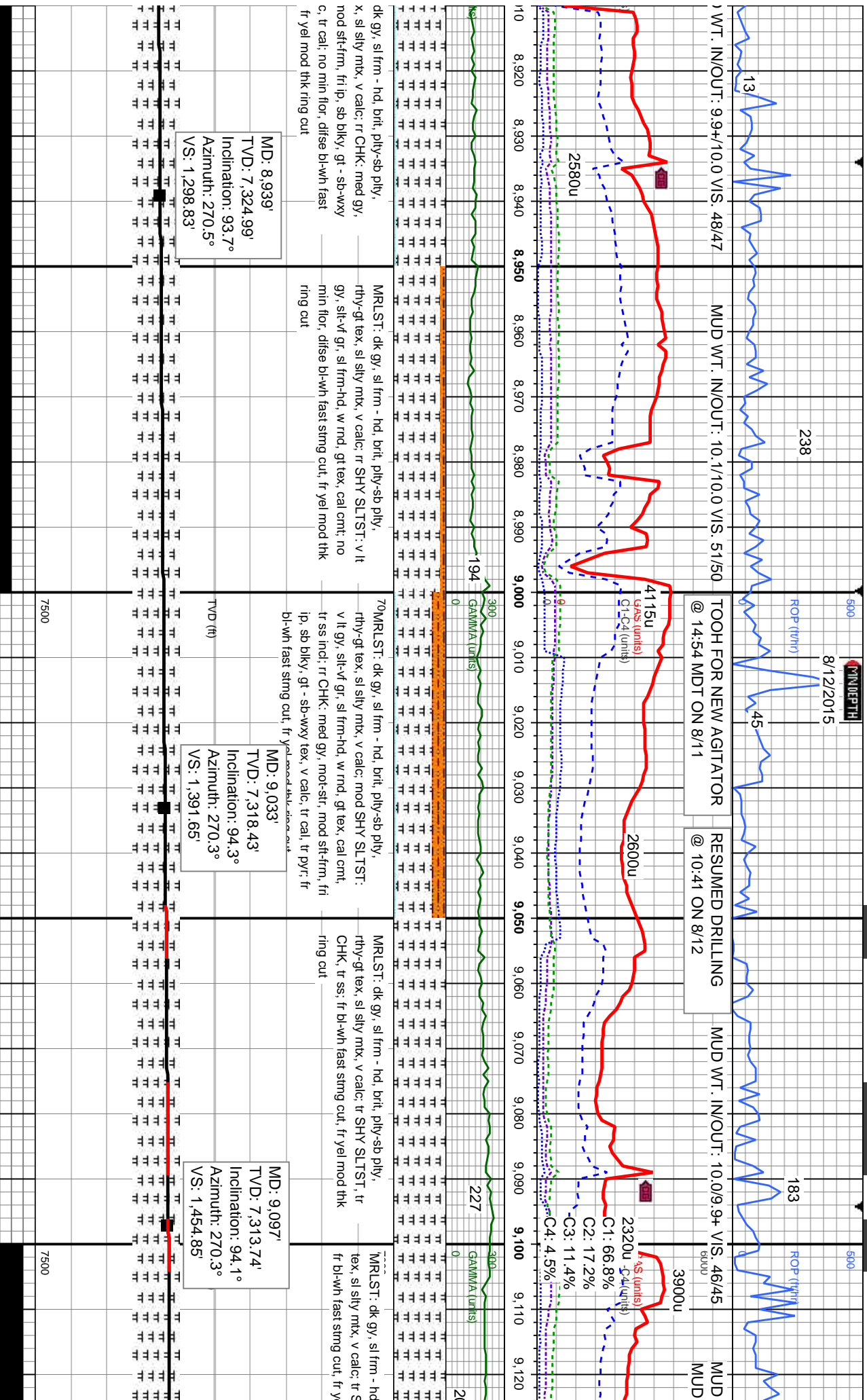


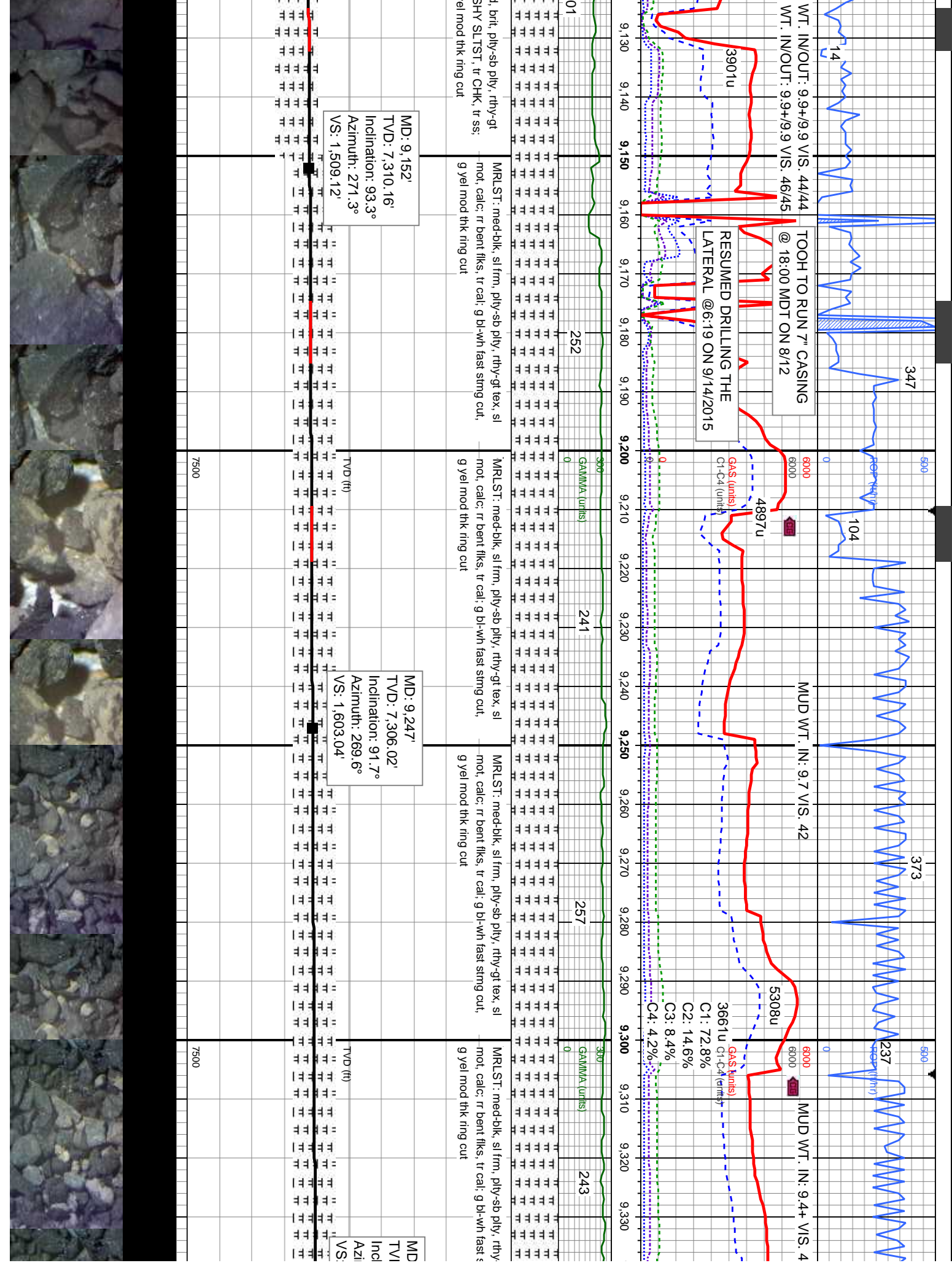


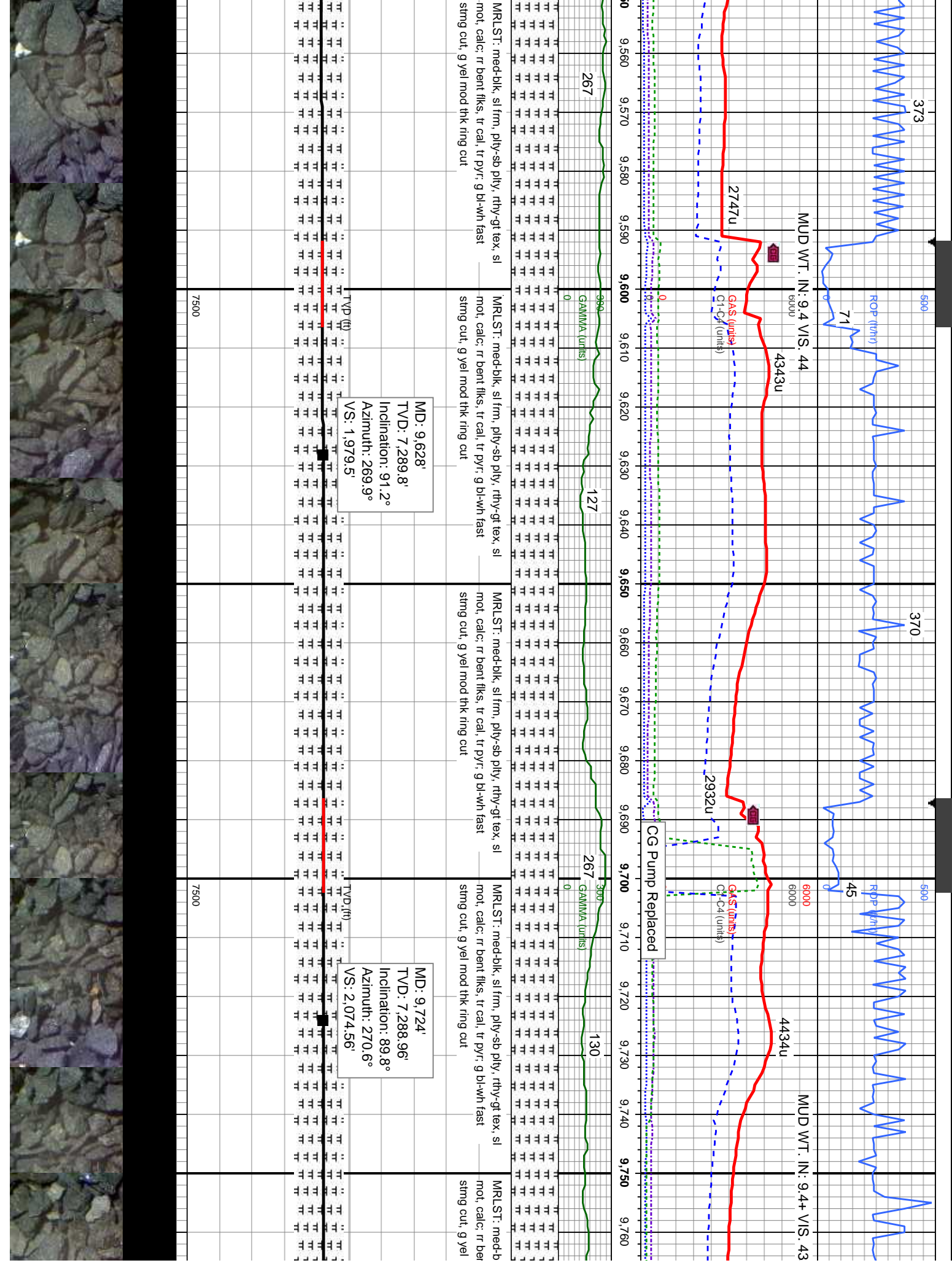


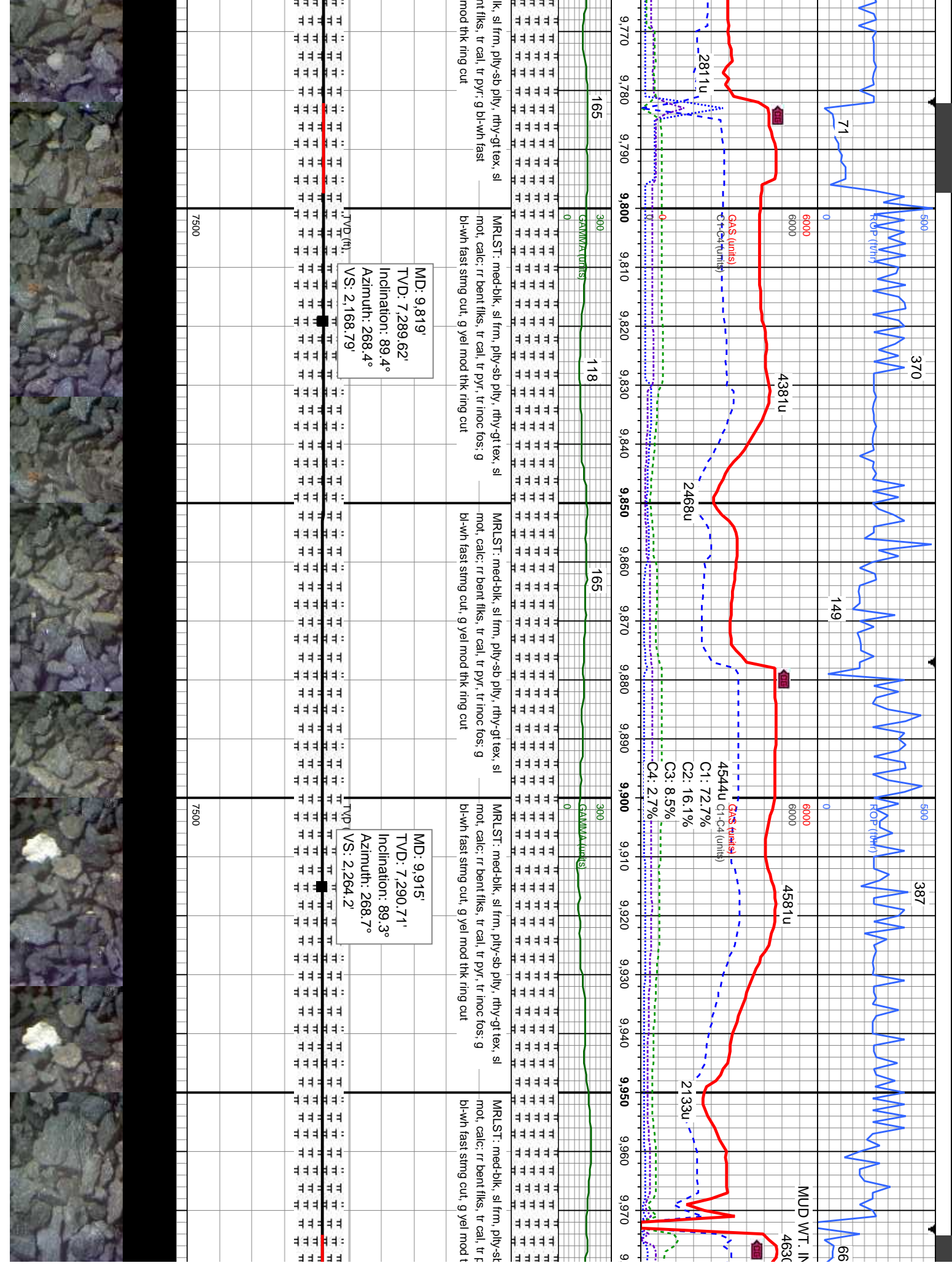
MD: 8,779'
TVD: 7,334.17'
Inclination: 93°
Azimuth: 271.3°
VS: 1,140.86'

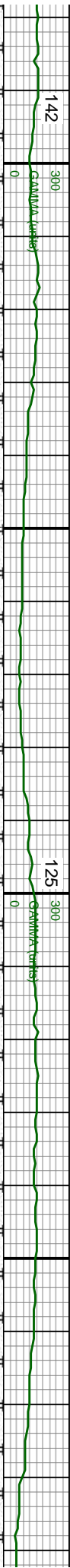
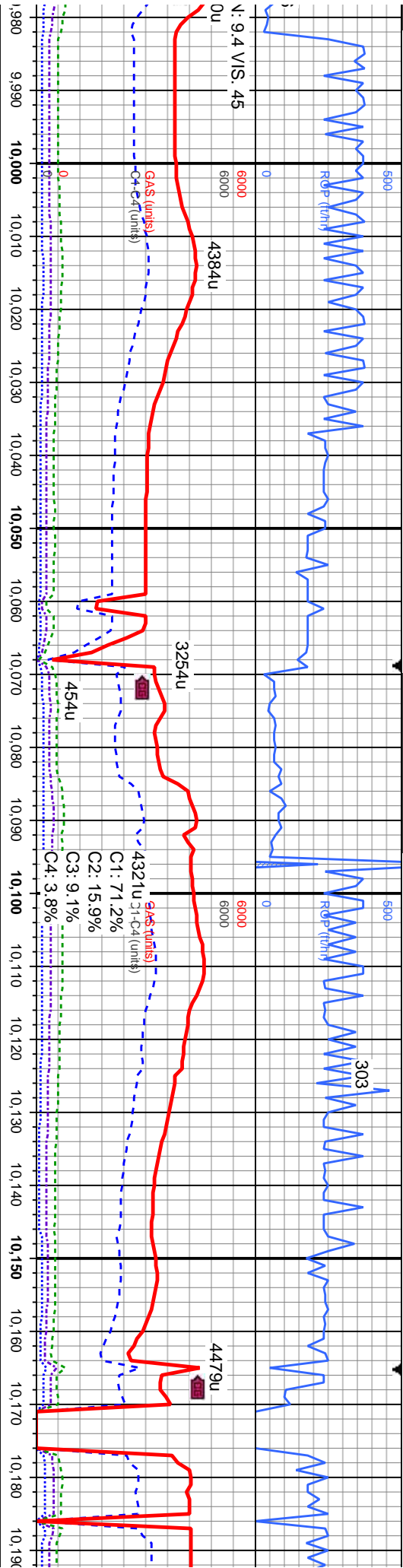
MD: 8,874'
TVD: 7,328.95'
Inclination: 93.3°
Azimuth: 270.5°
VS: 1,234.63'











Depth (ft)	ROP (in ft)	GRS (in units)	C1-C4 (in units)	Gamma-ray intensity (in units)	Notes
1,980					
9,990					
10,000					
10,010					
10,020					
10,030					
10,040					
10,050					
10,060					
10,070					
10,080					
10,090					
10,100					
10,110					
10,120					
10,130					
10,140					
10,150					
10,160					
10,170					
10,180					
10,190					

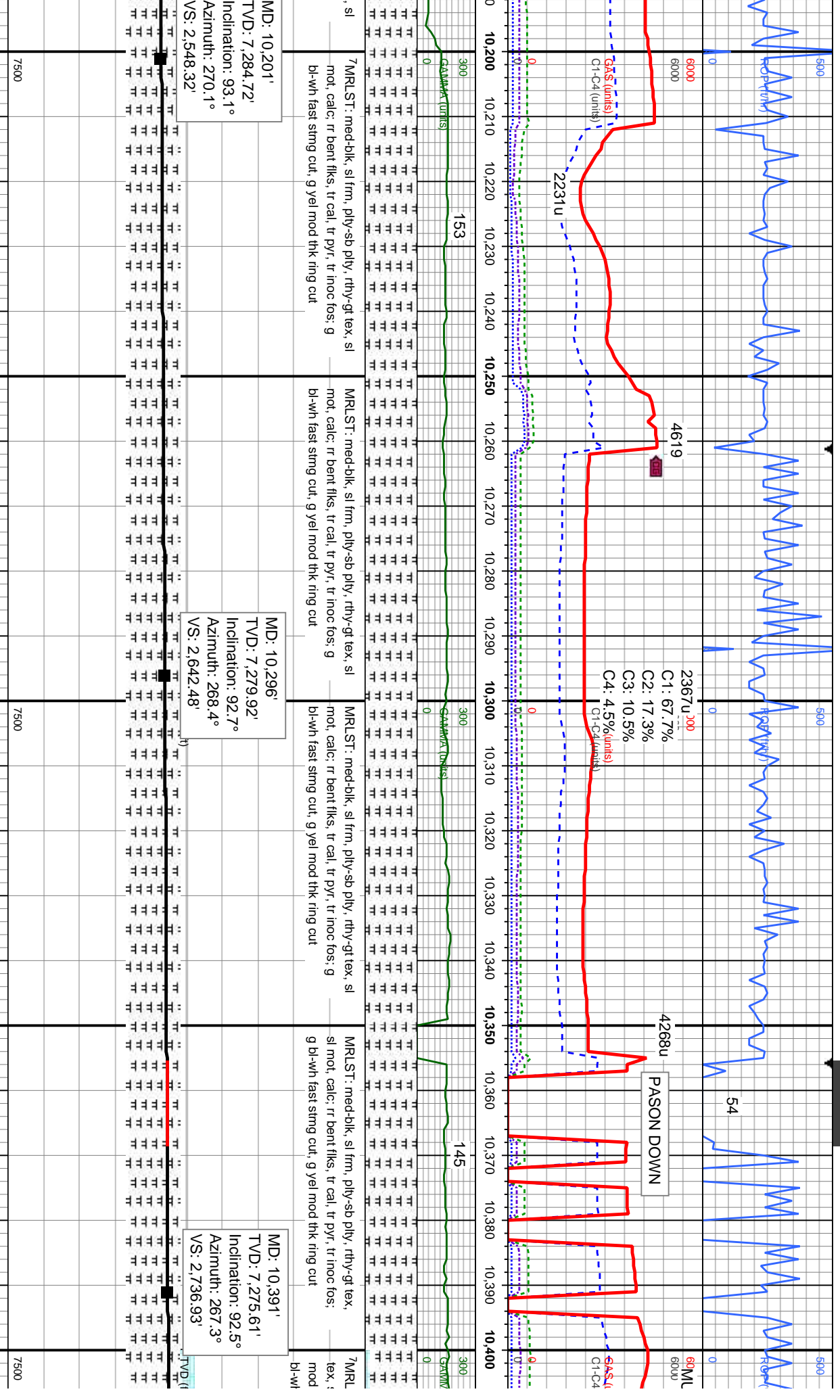
MD: 10,010'
TVD: 7,291.79'
Inclination: 89.4°
Azimuth: 266.6°
VS: 2,358.76'

MD: 10,106'
TVD: 7,289.78'
Inclination: 93°
Azimuth: 269.2°
VS: 2,454.25'

Depth (ft)	ROP (in ft)	GRS (in units)	C1-C4 (in units)	Gamma-ray intensity (in units)	Notes
1,980					
9,990					
10,000					
10,010					
10,020					
10,030					
10,040					
10,050					
10,060					
10,070					
10,080					
10,090					
10,100					
10,110					
10,120					
10,130					
10,140					
10,150					
10,160					
10,170					
10,180					
10,190					

Depth (ft)	ROP (in ft)	GRS (in units)	C1-C4 (in units)	Gamma-ray intensity (in units)	Notes
1,980					
9,990					
10,000					
10,010					
10,020					
10,030					
10,040					
10,050					
10,060					
10,070					
10,080					
10,090					
10,100					
10,110					
10,120					
10,130					
10,140					
10,150					
10,160					
10,170					
10,180					
10,190					





MD: 10,201'
TVD: 7,284.72'
Inclination: 93.1°
Azimuth: 270.1°
VS: 2,548.32'

MD: 10,296'
TVD: 7,279.92'
Inclination: 92.7°
Azimuth: 268.4°
VS: 2,642.48'

MD: 10,391'
TVD: 7,275.61'
Inclination: 92.5°
Azimuth: 267.3°
VS: 2,736.93'

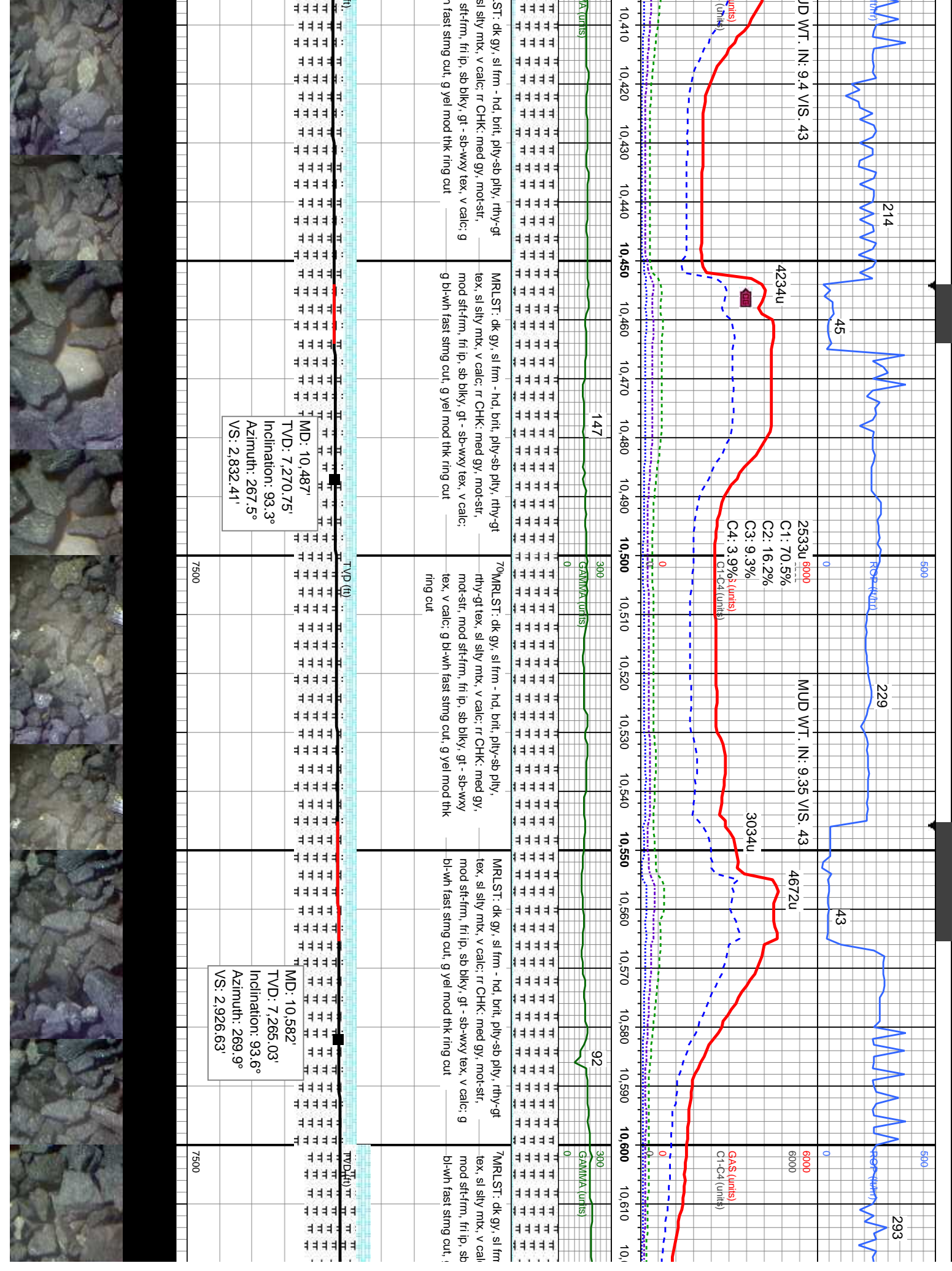
7MRLST: med-blk, sl frm, pty-sb pty, rthy-gt tex, sl
mot, calc, rr bent flks, tr cal, tr pyr, tr inoc fos, g
bl-wh fast string cut, g yel mod thk ring cut

MRLST: med-blk, sl frm, pty-sb pty, rthy-gt tex, sl
mot, calc, rr bent flks, tr cal, tr pyr, tr inoc fos, g
bl-wh fast string cut, g yel mod thk ring cut

MRLST: med-blk, sl frm, pty-sb pty, rthy-gt tex, sl
mot, calc, rr bent flks, tr cal, tr pyr, tr inoc fos, g
bl-wh fast string cut, g yel mod thk ring cut

7MRLST: med-blk, sl frm, pty-sb pty, rthy-gt tex, sl
mot, calc, rr bent flks, tr cal, tr pyr, tr inoc fos, g
bl-wh fast string cut, g yel mod thk ring cut





214

45

229

43

293

JD WT. IN: 9.4 VIS. 43

MUD WT. IN: 9.35 VIS. 43

4234u
2533u
C1: 70.5%
C2: 16.2%
C3: 9.3%
C4: 3.9%
GAS (units)
C1-C4 (units)

3034u
4672u
6000
6000
GAS (units)
C1-C4 (units)

147
300
300
92
300
GAMMA (units)

ST: dk gy, sl frm - hd, brlt, pily-sb pily, rthy-gt
sl sily mbx, v calc; r CHK: med gy, mot-str,
sfrfm, fri ip, sb blkly, gt - sb-wxy tex, v calc; g
1 fast sting cut, g yel mod thk ring cut
MRLST: dk gy, sl frm - hd, brlt, pily-sb pily, rthy-gt
tex, sl sily mbx, v calc; r CHK: med gy, mot-str,
mod sfrfm, fri ip, sb blkly, gt - sb-wxy tex, v calc;
g bl-wh fast sting cut, g yel mod thk ring cut
70MRLST: dk gy, sl frm - hd, brlt, pily-sb pily,
rthy-gt tex, sl sily mbx, v calc; r CHK: med gy,
mot-str, mod sfrfm, fri ip, sb blkly, gt - sb-wxy
tex, v calc; g bl-wh fast sting cut, g yel mod thk
ring cut
MRLST: dk gy, sl frm - hd, brlt, pily-sb pily, rthy-gt
tex, sl sily mbx, v calc; r CHK: med gy, mot-str,
mod sfrfm, fri ip, sb blkly, gt - sb-wxy tex, v calc; g
bl-wh fast sting cut, g yel mod thk ring cut
7MRLST: dk gy, sl frm
tex, sl sily mbx, v cal
mod sfrfm, fri ip, sb
bl-wh fast sting cut, i

MD: 10,487'
TVD: 7,270.75'
Inclination: 93.3°
Azimuth: 267.5°
VS: 2,832.41'

MD: 10,582'
TVD: 7,265.03'
Inclination: 93.6°
Azimuth: 269.9°
VS: 2,926.63'

DEPTH

9/15/2015

66

MUD WT. IN: 9.35 VIS. 42

WIPER TRIP

5104u

4291u
C1: 66.4%
C2: 16.6%
C3: 10.8%
C4: 6.2%

MUD WT. IN: 9.4 VIS. 44

5080u

2165u

4840u

349

237

216

190

300
GAMMA (units)

244

102

300
GAMMA (units)

147

n - hd, brt; pty-sb pty, rthy-gt
ic; r CHK: med gy, mot-str,
b blyk, gf - sb-wxy tex, v calc; g
g yel mod thk ring cut

MR.LST: med-blk, sl frm, pty-sb pty, rthy-gt tex,
sl mot, calc; r bent flks, tr cal; g bl-wh fast string
cut, g yel mod thk ring cut

7MR.LST: med-blk, sl frm, pty-sb pty, rthy-gt tex,
sl mot, calc; r bent flks, tr cal; g bl-wh fast string
cut, g yel mod thk ring cut

MR.LST: med-blk, sl frm, pty-sb pty, rthy-gt tex,
sl mot, calc; r bent flks, tr cal; g bl-wh fast string
cut, g yel mod thk ring cut

7MR.LST: med-blk, sl frm, pty-sb pty,
sl mot, calc; r bent flks, tr cal; g bl-w
cut, g yel mod thk ring cut

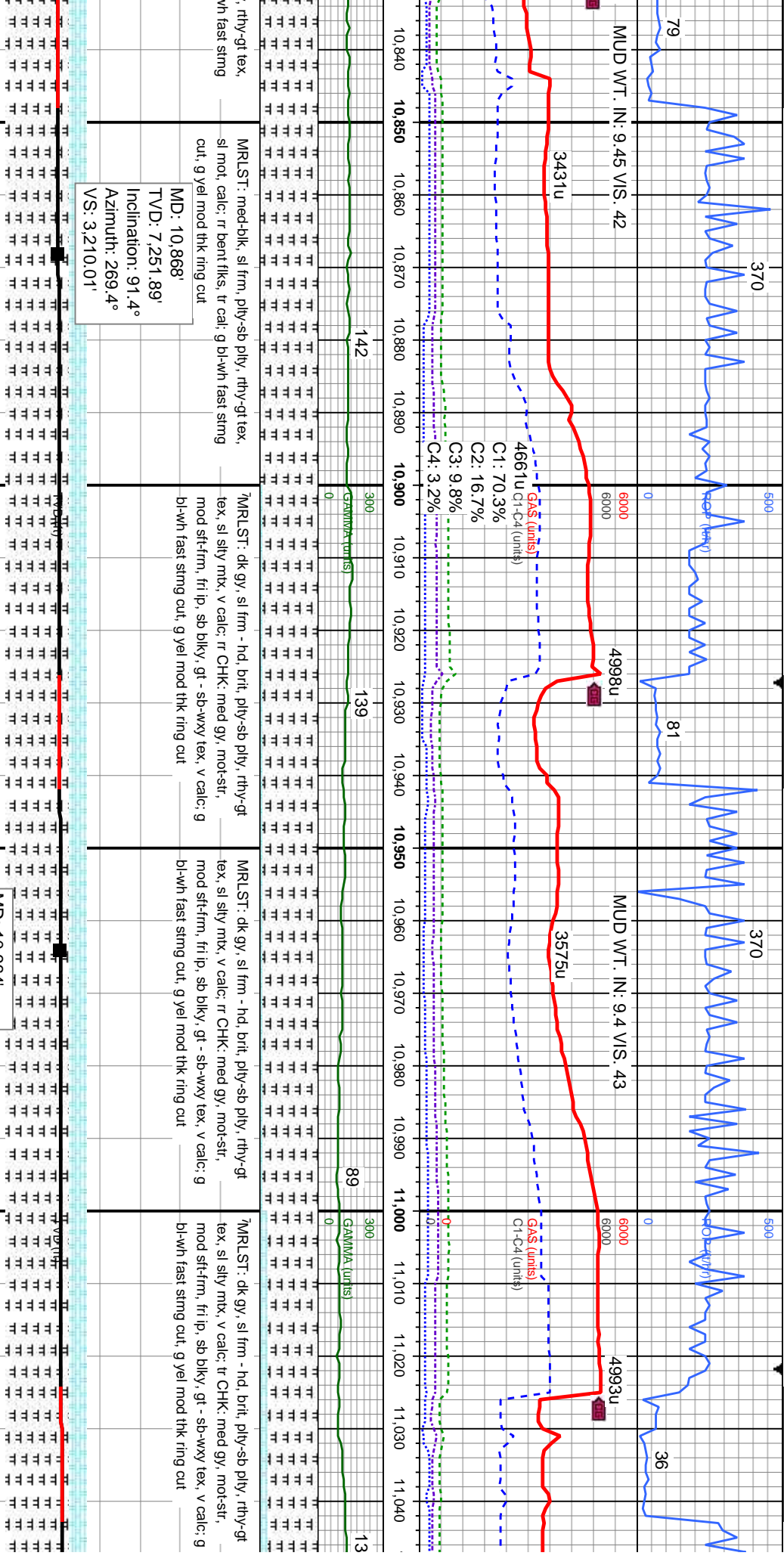
MD: 10,677'
TVD: 7,260.06'
Inclination: 92.4°
Azimuth: 269.8°
VS: 3,020.66'

MD: 10,773'
TVD: 7,255.54'
Inclination: 93°
Azimuth: 269.1°
VS: 3,115.79'

7500

7500

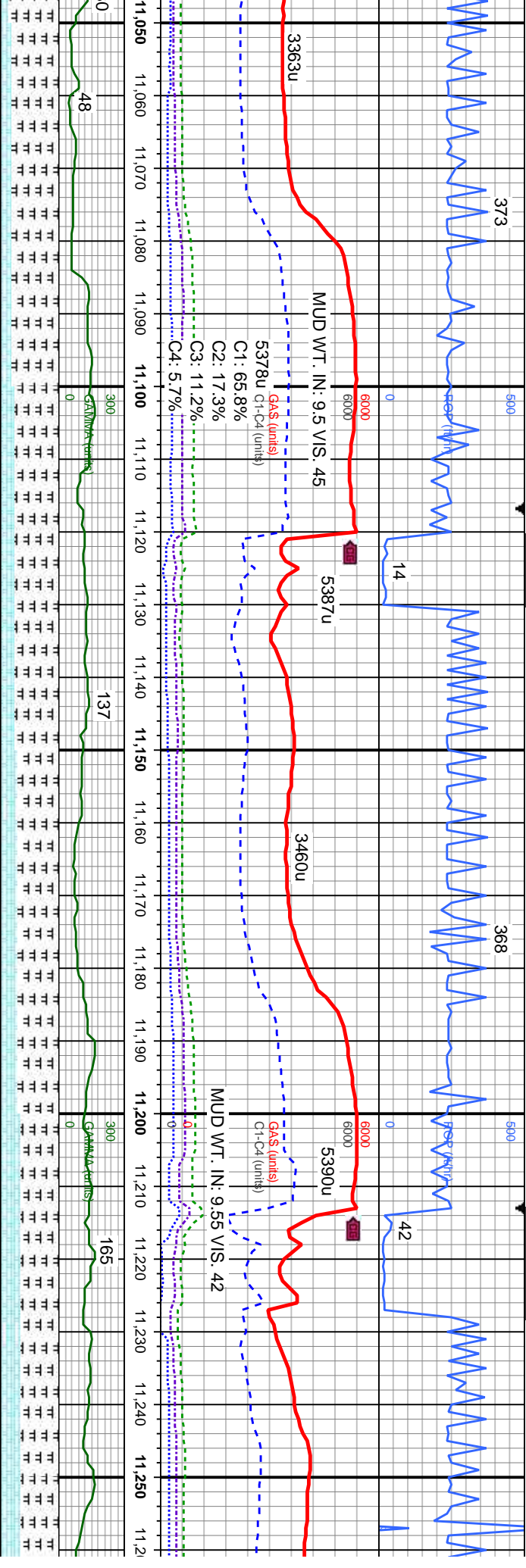




MD: 10,868'
TVD: 7,251.89'
Inclination: 91.4°
Azimuth: 269.4°
VS: 3,210.01'

MD: 10,964'
TVD: 7,249.55'
Inclination: 91.4°
Azimuth: 269.1°
VS: 3,305.26'

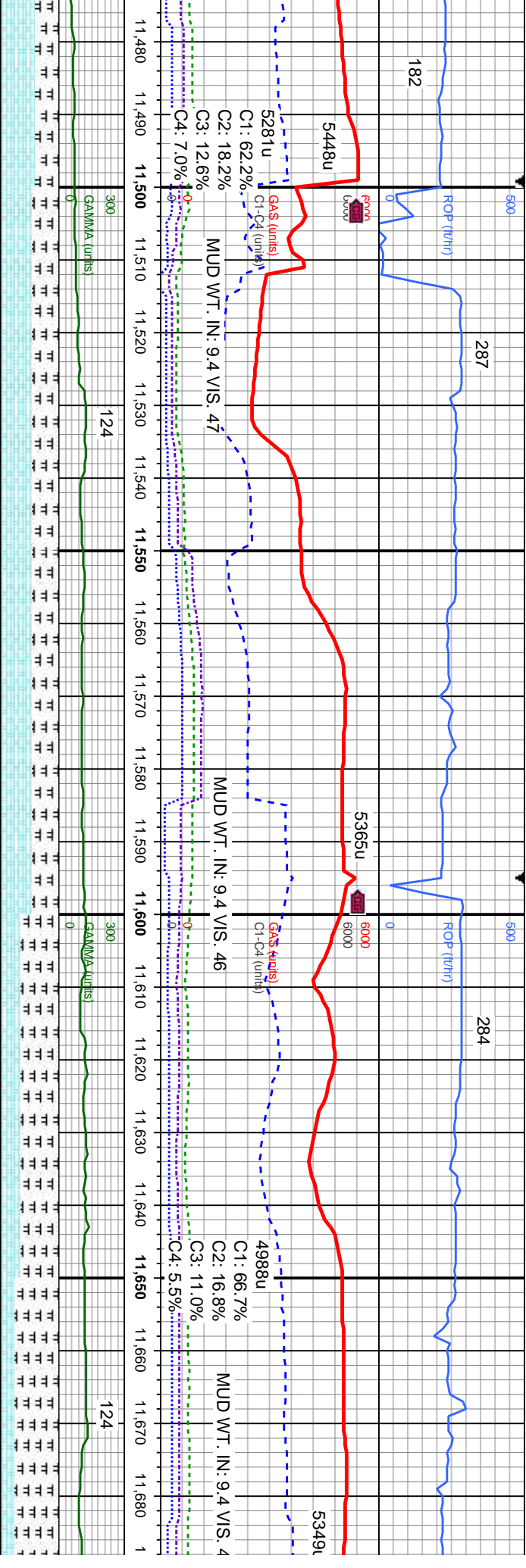




MRLST: dk gy, sl frm - hd, brit, ply-sb ply, rthy-gt tex, sl silty mtx, v calc; tr CHK: med gy, mot-str, mod sft-frm, fri ip, sb blkly, gt - sb-wxy tex, v calc; g bl-wh fast sting cut, g yel mod thk ring cut	MRLST: dk gy, sl frm - hd, brit, ply-sb ply, rthy-gt tex, sl silty mtx, v calc; mod CHK: med gy, mot-str, mod sft-frm, fri ip, sb blkly, gt - sb-wxy tex, v calc; g bl-wh fast sting cut, g yel mod thk ring cut	MRLST: dk gy, sl frm - hd, brit, ply-sb ply, rthy-gt tex, sl silty mtx, v calc; mod CHK: med gy, mot-str, mod sft-frm, fri ip, sb blkly, gt - sb-wxy tex, v calc; g bl-wh fast sting cut, g yel mod thk ring cut	MRLST: dk gy, sl frm - hd, brit, ply-sb ply, rthy-gt tex, sl silty mtx, v calc; mod CHK: med gy, mot-str, mod sft-frm, fri ip, sb blkly, gt - sb-wxy tex, v calc; g bl-wh fast sting cut, g yel mod thk ring cut
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MD: 11,059' TVD: 7,247.56' Inclination: 91° Azimuth: 269.1° VS: 3,399.55'	MD: 11,154' TVD: 7,246.73' Inclination: 90° Azimuth: 268.9° VS: 3,493.89'	MD: 11,250' TVD: 7,247.1' Inclination: 89.1° Azimuth: 270.1° VS: 3,589.11'
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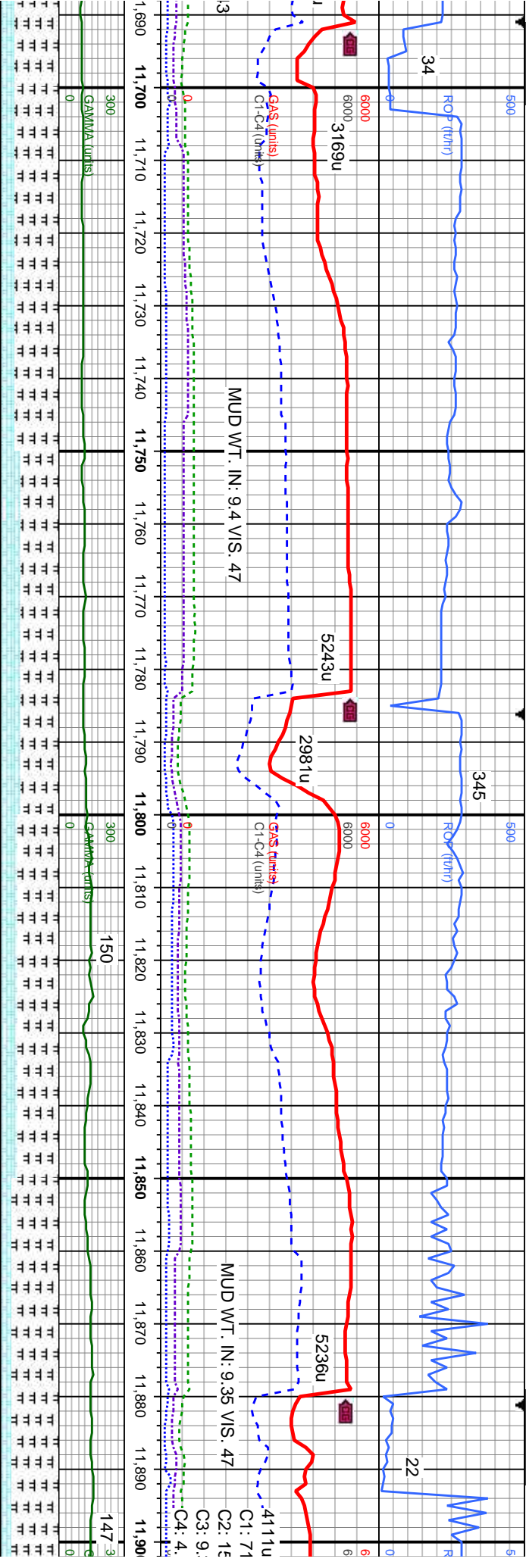


nod sft-frm, fri ip, sb blkly, l:ST: dk gy, sl frm - hd, c: sl sily mtex, v calc, r brit, ply-sb ply, rthy-gt tex, sl sily mtex, v calc, g bl-wh fast sting cut	7000	CHK: lt-med gy, mot-str, mod sft-frm, fri ip, sb blkly, gt - sb-wxy tex, v calc; MRLST: dk gy, sl frm - hd, brit, ply-sb ply, rthy-gt tex, sl sily mtex, v calc, r bent; g bl-wh fast sting cut, g yel mod thk ring cut	CHK: lt-med gy, mot-str, mod sft-frm, fri ip, sb blkly, gt - sb-wxy tex, v calc; MRLST: dk gy, sl frm - hd, brit, ply-sb ply, rthy-gt tex, sl sily mtex, v calc, r bent; g bl-wh fast sting cut, g yel mod thk ring cut	MRLST: dk gy, sl frm - hd, brit, ply-sb ply, rthy-gt tex, sl sily mtex, v calc, r bent; CHK: lt-med gy, mot-str, mod sft-frm, fri ip, sb blkly, gt - sb-wxy tex, v calc; g bl-wh fast sting cut, g yel mod thk ring cut	MRLST: dk gy, sl frm - hd, brit, ply-sb ply, rthy-gt tex, sl sily mtex, v calc, r bent; CHK: lt-med gy, mot-str, mod sft-frm, fri ip, sb blkly, gt - sb-wxy tex, v calc; g bl-wh fast sting cut, g yel mod thk ring cut
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MD: 11,537'	MD: 11,632'	MD: 11,632'
TVD: 7,249.56'	TVD: 7,248.57'	TVD: 7,248.57'
Inclination: 90.4°	Inclination: 90.8°	Inclination: 90.8°
Azimuth: 269.8°	Azimuth: 268.4°	Azimuth: 268.4°
VS: 3,873.43'	VS: 3,967.74'	VS: 3,967.74'

7500	7500	7500
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lly, 4K:	70WRLST: dk gy, sl frm - hd, brit, pily-sb pily, rthy-gt tex, sl silty mx, v calc, rr bent; CHK: lt-med gy, mot-str, mod sft-frm, fri ip, sb blk, gt - sb-wxy tex, v calc; g bl-wh fast string cut, g yel mod thk ring cut	MRLST: dk gy, sl frm - hd, brit, pily-sb pily, rthy-gt tex, sl silty mx, v calc, rr bent; CHK: lt-med gy, mot-str, mod sft-frm, fri ip, sb blk, gt - sb-wxy tex, v calc; g bl-wh fast string cut, g yel mod thk ring cut	700MRLST: dk gy, sl frm - hd, brit, pily-sb pily, rthy-gt tex, sl silty mx, v calc, rr bent; CHK: lt-med gy, mot-str, mod sft-frm, fri ip, sb blk, gt - sb-wxy tex, v calc; g bl-wh fast string cut, mod thk ring cut	MRLST: dk gy, sl frm - hd, brit, pily-sb pily, rthy-gt tex, sl silty mx, v calc, rr bent; CHK: lt-med gy, mot-str, mod sft-frm, fri ip, sb blk, gt - sb-wxy tex, v calc; g bl-wh fast string cut, mod thk ring cut
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MD: 11,727'
TVD: 7,247.99'
Inclination: 89.9°
Azimuth: 269.1°
VS: 4,062.12'

MD: 11,823'
TVD: 7,248.15'
Inclination: 89.9°
Azimuth: 267.6°
VS: 4,157.57'



