














































































Scale: 5" / 100'
Measured Depth Log

	UNKNOWN		CO
	ANHYDRITE		CO
	BENTONITE		CO
	BRECCIA		CO
	CHALK		CO
	CEMENT		CO
	CHERT		CO
	CLAY CHOKE SAND		CO
	CLAYSTONE		CO
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			CO

Operator

AY, SUITE 2200
ORADO 80202

Geologist

AY, SUITE 2200
ORADO 80202

Other

AL SERVICES PROVIDED BY COLUMBINE LOGGING INC.
M FILE: Vertloeffler K1-69-1HN.mplot

Rock Types

METAMORPHIC
NO SAMPLE
SALT
SANDSTONE
SALT PEPPER SANT
SHAPE
SHAPE COLORED
LIMESTONE
MARLSONE

SHALY SILTYSTONE
SILTY SHALE
SILTY STONE
TUFF
WELDED TUFF

Accessories

Fossils

F FOSSIL
GASTROPOD
OOLITE
AMPHIROPA
BELEMITE
PELECYPOD
BIOCLASTIC
BRACHIOPOD
PISOLITE
PLANT REMAINS
BRYOZOA
CEPHALOPOD
CORAL
CRINOID
ECHINOID
FISH
FORAMINIFERA
ANHYDRITIC

ARGILLACEOUS
ARGILLITE GRAIN
BENTONITE
BITUMENOUS SUBSTANCE
BRECCIA FRAGMENTS
CALCAREOUS
CARBONACEOUS FLAKES
CHTDK
CHTLT
COAL - THIN BEDS
DOLOMITIC
FELDSPAR
FERRUGINOUS PELLET
FERRUGINOUS
SILICEOUS
SILTY
SILTSTONE STRINGER

GLAUCONITE
GYPSIFEROUS
HEAVY MINERAL
INOCERAMUS
KAOLIN
MARLSTONE
MINERAL CRYSTALS
NODULES
PHOSPHATE PELLET:
PYRITE
SALT CAST
SANDY

TUFFACEOUS
ANHYDRITE STRINGER
BENTONITE STRINGER
COAL STRINGER
DOLOMITE STRINGER
GYPSUM STRINGER
LIMESTONE STRINGER
MARLSTONE (CALC) STRG
MARLSTONE (DOL) STRG
SANDSTONE STRINGER

Other Symbols

Oil Show

MOLDIC
ORGANIC
DEAD
PINPOINT
EVEN
VUGGY
QUESTIONABLE
SPOTTED STAINING

FAULT
FORMATION TOP
GAS SHOW
MINDEPTH
MN DEPTH

WIRELINE TESTED - LEFT
WIRELINE TESTED - RT

Engineering

BIT
CONNECTION (LEFT)
CONNECTION (RIGHT)
CONNECTION GAS
CORE - LOST
CORE - RECOVERED
DST INTERVAL
NORMAL FAULT
OIL SHOW
OVERTURNED STRATA
REVERSE FAULT
SIDEWALL CORE (LEFT)
SIDEWALL CORE (RIGHT)
SLIDE
SURVEY
TRIP GAS

ANGULAR
ROUNDED
SUBANG
SUBRND
WACKESTONE

Rounding

ANGULAR
ROUNDED
SUBANG
SUBRND
WACKESTONE

Textures

BOUNDSTONE
CHALKY
CRYPTOXLN

Sorting

MODERATE
POOR
WELL

Slide/Rotate

ROP
ROF
GAMMA

Total Gas & Chromatograph
GAS
C1
C2
C3
C4
CO2

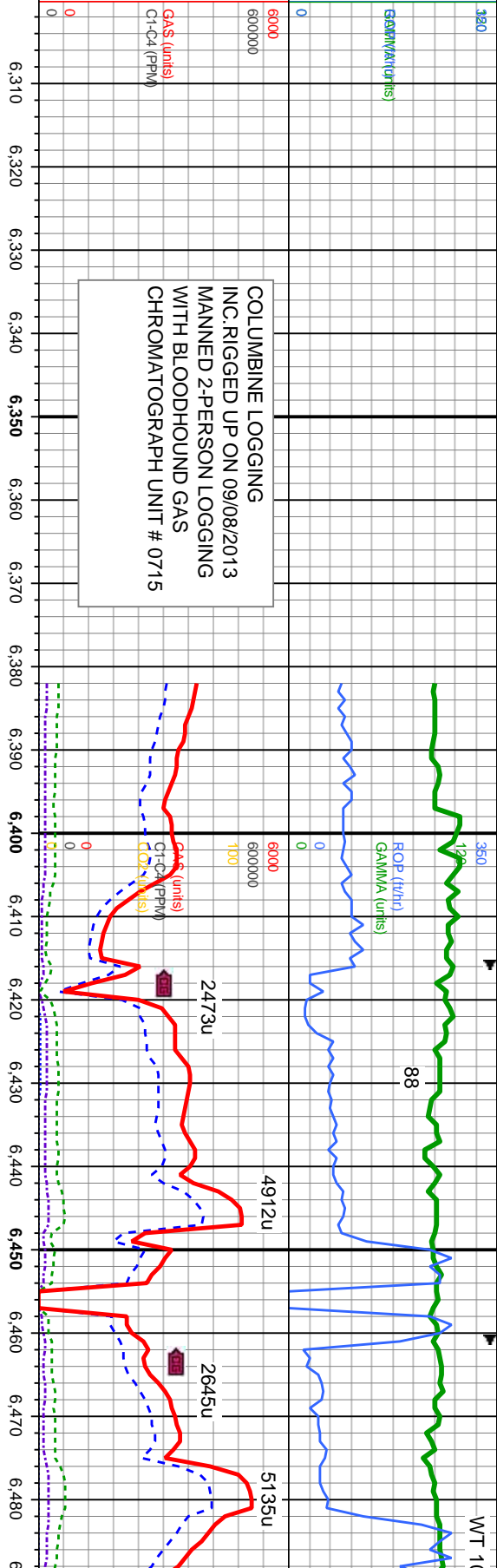
Depth Labels

% Lith

Well Bore
TVD

Oil Show

Images



BEGIN 50' SAMPLE INTERVAL

Bit Data
Bit #: 2
Type: Smith
Size: 8.75
Depth In: 644 '
Hours: 29.25 hrs
Jets: 3x13, 3x14
S/N: JH3962

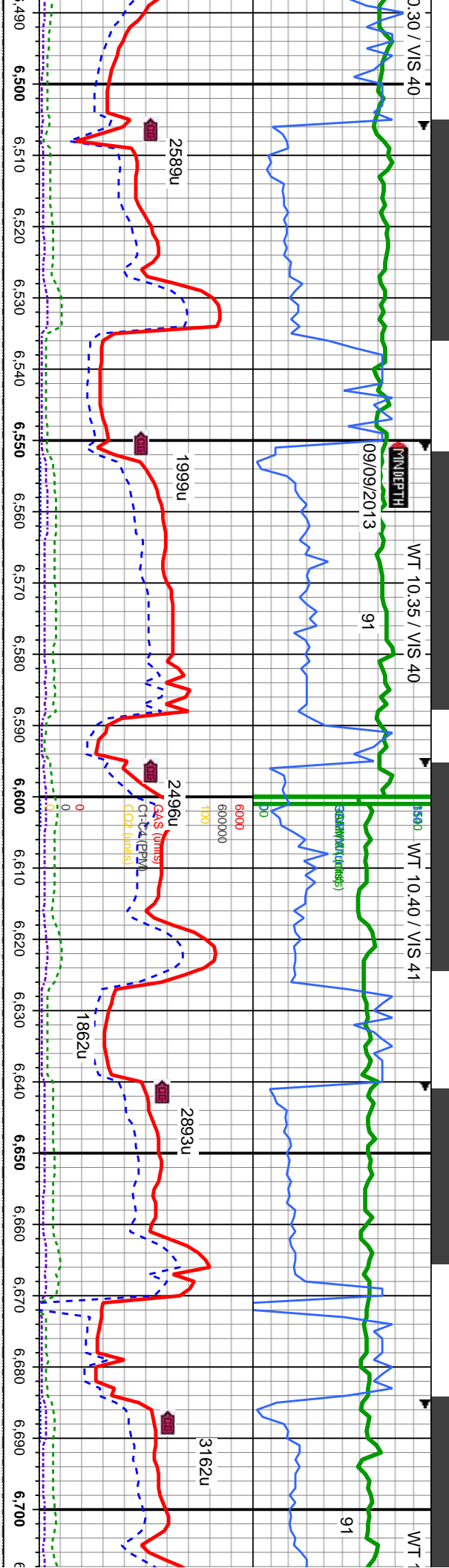
MD: 6,411
TVD: 6,315.97
Inclination: 19.89 °
Azimuth: 2.4 °
VS: 127.58 '

MD: 6,456
TVD: 6,357.76
Inclination: 23.62 °
Azimuth: 1.06 °
VS: 132.82 '

90% SLTY SH: predy gy, occ lt gy, frm sft, sb pily, sb blk, shy - slty-aren t
calc; 10% SHY SS: wh- lt gy, occ tmsl-op, vf - f gr, sb ang, sb md, mod srt, f
frm occ sft, ang mtb, v sl calc

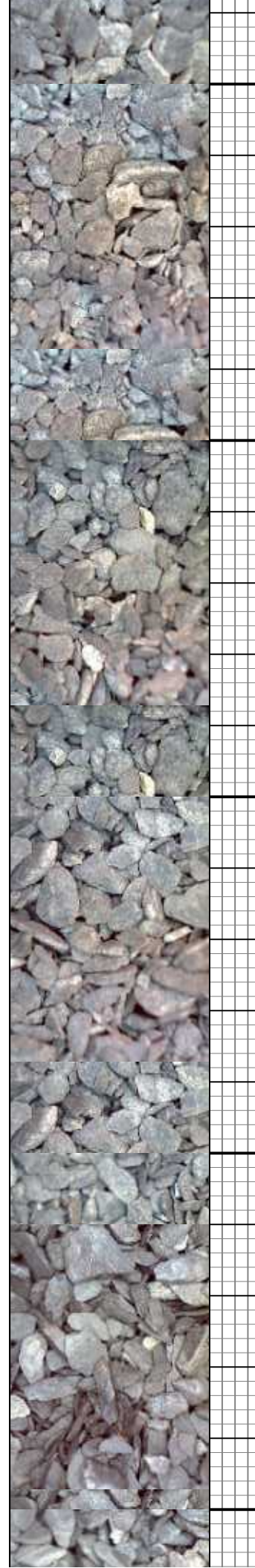
TR
P
FR
G
E

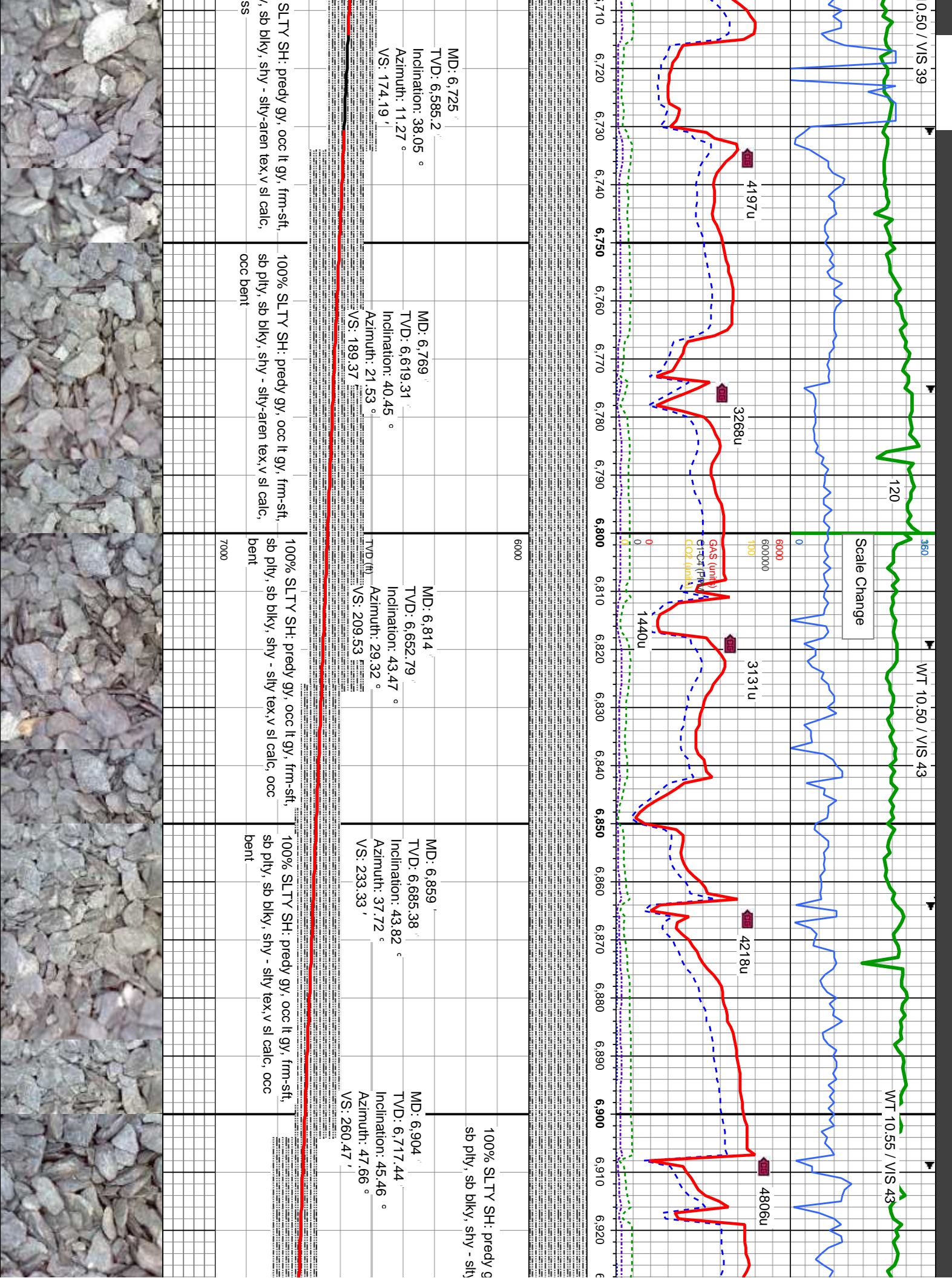


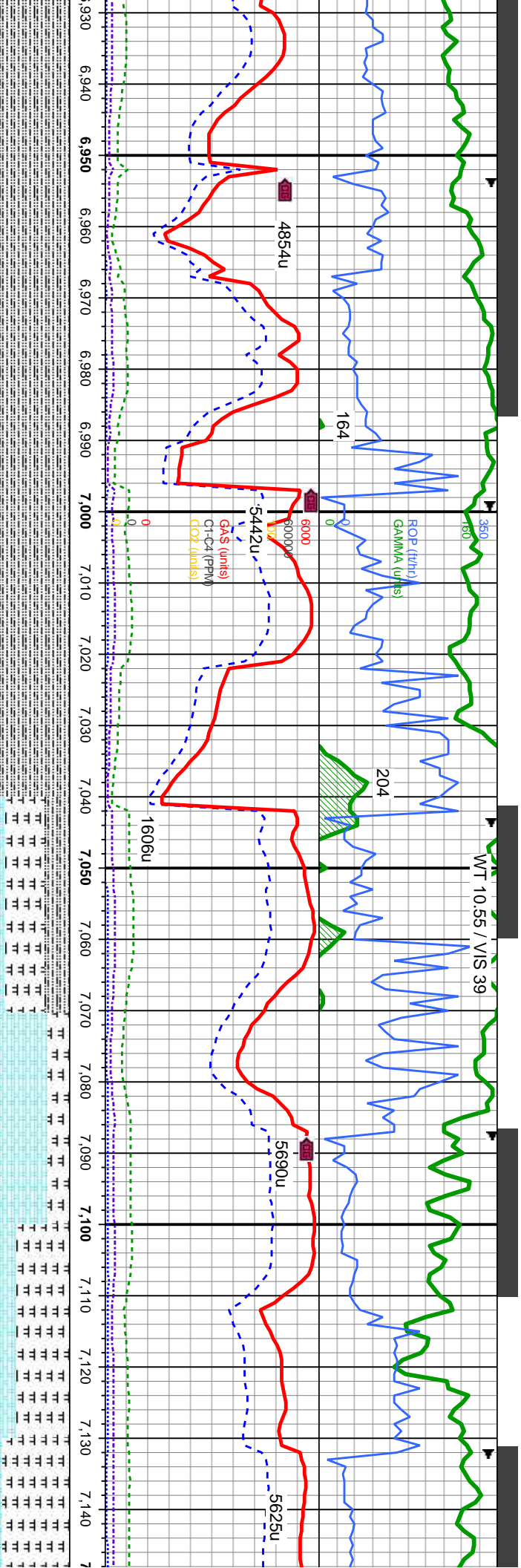


MD: 6,501' TVD: 6,398.73' Inclination: 25.23° Azimuth: 358.75° VS: 138.1'	MD: 6,545' TVD: 6,438.03' Inclination: 28.37° Azimuth: 355.17° VS: 142.66'	MD: 6,590' TVD: 6,476.78' Inclination: 32.7° Azimuth: 356.68° VS: 147.64'	MD: 6,635' TVD: 6,513.85' Inclination: 36.33° Azimuth: 358.67° VS: 153.95'	MD: 6,680' TVD: 6,549.73' Inclination: 37.97° Azimuth: 5.06° VS: 162.59'
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80% SLTY SH: predy gy, occ lt gy, frm-sft, sb plty, sb blk, shy - silty-aren tex, v sl calc, 20% SHY SS: wh- lt gy, occ trns-op, vt - f gr, sb ang, sb rnd, mod srl, predy frm occ sft, arg mtk, v sl calc	100% SLTY SH: predy gy, occ lt gy, frm-sft, sb plty, sb blk, shy - silty-aren tex, v sl calc, tr shy ss	100% SLTY SH: predy gy, occ lt gy, frm-sft, sb plty, sb blk, shy - silty-aren tex, v sl calc, tr shy ss
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Loggers Sharon Spr. Mkr Bed
6966' MD, 6759' TVD

100% SLTY SH: predy gy, occ lt gy,
frm-sft, sb pily, sb blkly, shy - slty tex, v sl
calc, com bent

MD: 6,948'
TVD: 6,747.83'
Inclination: 47.31°
Azimuth: 56.9°
VS: 290.14'

MD: 6,993'
TVD: 6,778'
Inclination: 48.56°
Azimuth: 64.71°
VS: 322.7'

Scale Change

Loggers Niobrara Top
7046' MD, 6812' TVD

MD: 7,038'
TVD: 6,806.8'
Inclination: 51.86°
Azimuth: 67.72°
VS: 357'

100% SLTY SH: predy gy, occ lt gy,
frm-sft, sb pily, sb blkly, shy - slty tex, v
sl calc, com bent

Loggers A Chalk
7074' MD, 6828' TVD

MD: 7,083'
TVD: 6,833.94'
Inclination: 53.94°
Azimuth: 70°
VS: 392.78'

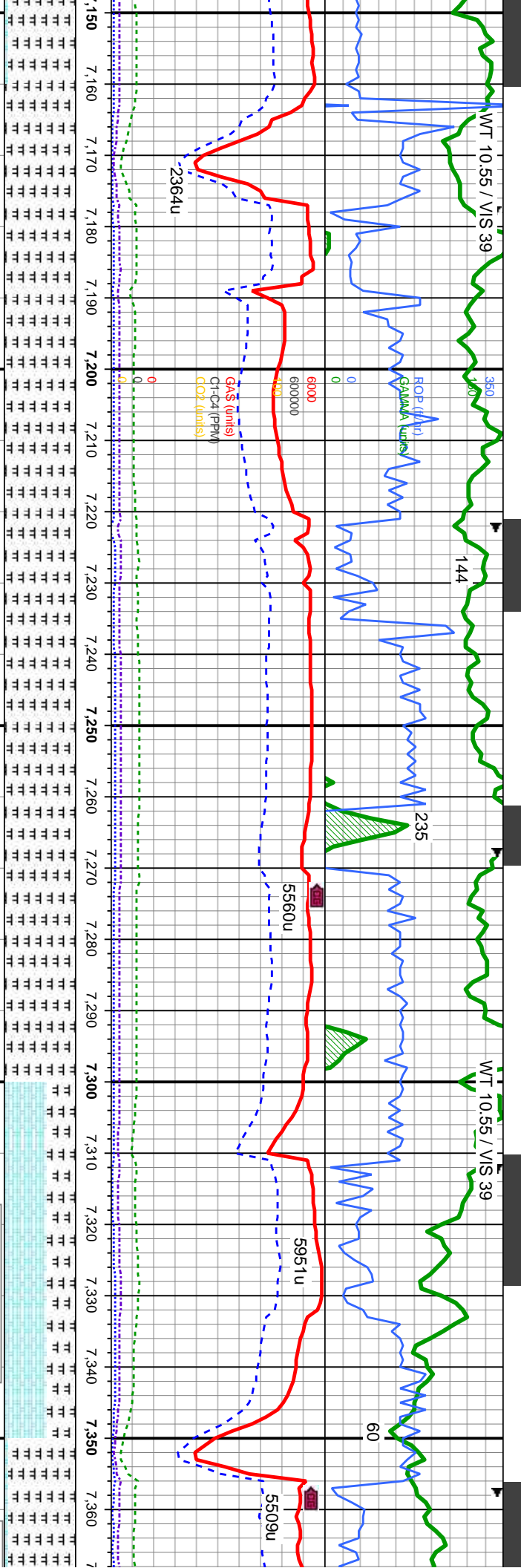
30% MRLST: predy gy-dk gy, sft-med frm, sb
pily, sb blkly, rthy lstr, slty tex, mod fiss,
org/calc mtz, v calc
10% SLTY SH: pred gy, occ dk gy, frm, occ
hd, flky-blky, slty-fis tex 35% CHK: ltgy,
mot-str, sft, sb pily-sb blkly, rthy-sb wxy lstr,
slty tex, v calc

Loggers A Marl
7120' MD, 6855' TVD

MD: 7,128'
TVD: 6,859.75'
Inclination: 56.07°
Azimuth: 74.46°
VS: 429.62'

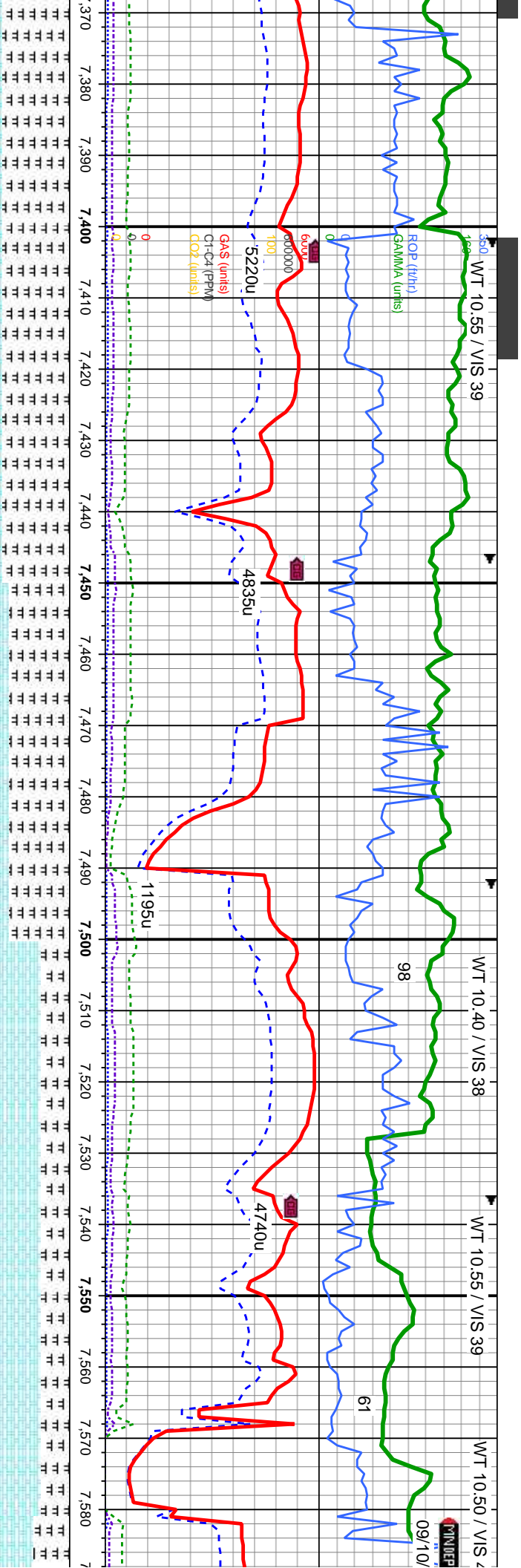
80% MRLST: predy gy-dk gy, sft-med frm,
sb pily, sb blkly, rthy lstr, slty tex, mod fiss,
org/calc mtz, v calc
20% CHK: ltgy, mot-str, sft, sb pily-sb
blkly, rthy-sb wxy lstr, slty tex, v calc





<p>MD: 7,173 ' TVD: 6,884.42 ' Inclination: 57.5 ° Azimuth: 80.59 ° VS: 467.14 '</p> <p>100% MRLST: gy, occly dk gy, frm-sft, sb pily, sb blk, rthy lstr, slty tex, org/calc mtx, occ bent</p>	<p>MD: 7,217 ' TVD: 6,907.46 ' Inclination: 59.36 ° Azimuth: 82.15 ° VS: 504.26 '</p> <p>100% MRLST: gy, occly dk gy, frm-sft, sb pily, sb blk, rthy lstr, slty tex, org/calc mtx, occ bent</p>	<p>MD: 7,262 ' TVD: 6,929.83 ' Inclination: 61.01 ° Azimuth: 83.43 ° VS: 542.77 '</p> <p>100% MRLST: gy, occly dk gy, frm-sft, sb pily, sb blk, rthy lstr, slty tex, org/calc mtx, occ ben, tr chk</p>	<p>MD: 7,307 ' TVD: 6,951.1 ' Inclination: 62.57 ° Azimuth: 83.89 ° VS: 581.79 '</p> <p>60% CHK: lgy, mot-stri, sft, sb pily-sb blk, rthy-sb wxy lstr, slty tex, v calc 40% MRLST: predy gy- dk gy, sft-med frm, sb pily, sb blk, rthy lstr, slty tex, mod fss, org/calc mtx, v calc</p>	<p>MD: 7,352 ' TVD: 6,970.4 ' Inclination: 66.64 ° Azimuth: 84.83 ° VS: 621.69 '</p> <p>95% MRLST: p sb pily, sb blk, org/calc mtx, v 5% CHK: lgy, r rthy-sb wxy lstr</p>
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MD: 7,397' 6600
TVD: 6,987.16'
Inclination: 69.6 °
Azimuth: 85.05 °
VS: 662.59'

MD: 7,442' 6600
TVD: 7,001.64'
Inclination: 72.86 °
Azimuth: 86.27 °
VS: 704.22'

MD: 7,487' 7490' MD, 7014' TVD
TVD: 7,013.74'
Inclination: 75.95 °
Azimuth: 87.51 °
VS: 746.36'

MD: 7,531' 7581' MD @ 20:03 HRS 09/
TVD: 7,023.13'
Inclination: 79.39 °
Azimuth: 88.59 °
VS: 787.93'

WD BUILD SECTION
7581' MD @ 20:03 HRS 09/
CASING SET @ 7581' MD
DRILLED OUT
@ 22:50 HRS, 09/11/2013

95% MRLST: predy gy- dk gy, sft-med frm, sb pty, sb blk, rthy lstr, silty tex, mod fss, org/calc mt, v calc, com mic fos, mas pyr, occ bent
5% CHK: lgy, mot-stri, sft, sb pty-sb blk, rthy-sb wxy lstr, silty tex, v calc

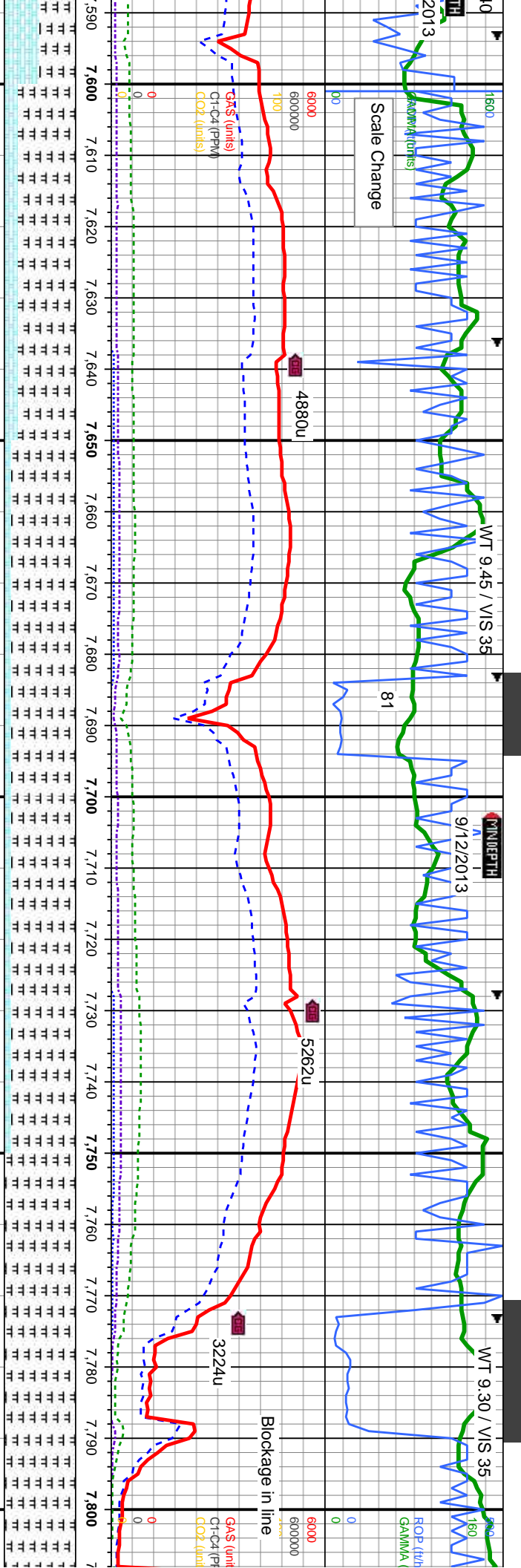
85% MRLST: predy gy- dk gy, sft-med frm, sb pty, sb blk, rthy lstr, silty tex, mod fss, org/calc mt, v calc, com mic fos, mas pyr, occ bent
15% CHK: lgy-brn, mot-stri, sft, sb pty-sb blk, rthy-sb wxy lstr, silty tex, v calc

60% CHK: lgy-brn, mot-stri, sft, sb pty-sb blk, rthy-sb wxy lstr, silty tex, v calc
40% MRLST: predy gy- dk gy, sft-med frm, sb pty, sb blk, rthy lstr, silty tex, mod fss, org/calc mt, v calc, com mic fos, mas pyr, occ bent

60% CHK: lgy-brn, mot-stri, sft, sb pty-sb blk, rthy-sb wxy lstr, silty tex, mod fss, org/calc mt, v calc, com mic fos, mas pyr, occ bent

predy gy- dk gy, sft-med frm, rthy lstr, silty tex, mod fss, calc, com mic fos
mot-stri, sft, sb pty-sb blk, silty tex, v calc





09/2013

MD: 7,617
TVD: 7,037.02
Inclination: 82.02
Azimuth: 88.49
VS: 869.84

Bit Data
Bit #: 3
Type: VSS13D
Size: 6.12
Depth In: 7,581
Hours: 30.5 hrs
Jets: 5X14
S/N: 4005864

MD: 7,707
TVD: 7,049.35
Inclination: 82.24
Azimuth: 88.28
VS: 955.95

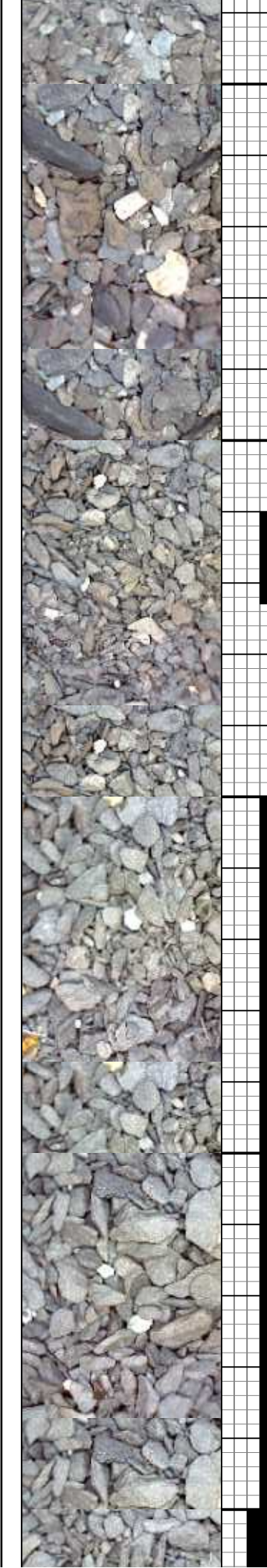
MD: 7,796
TVD: 7,060.15
Inclination: 83.82
Azimuth: 88.02
VS: 1,041.37

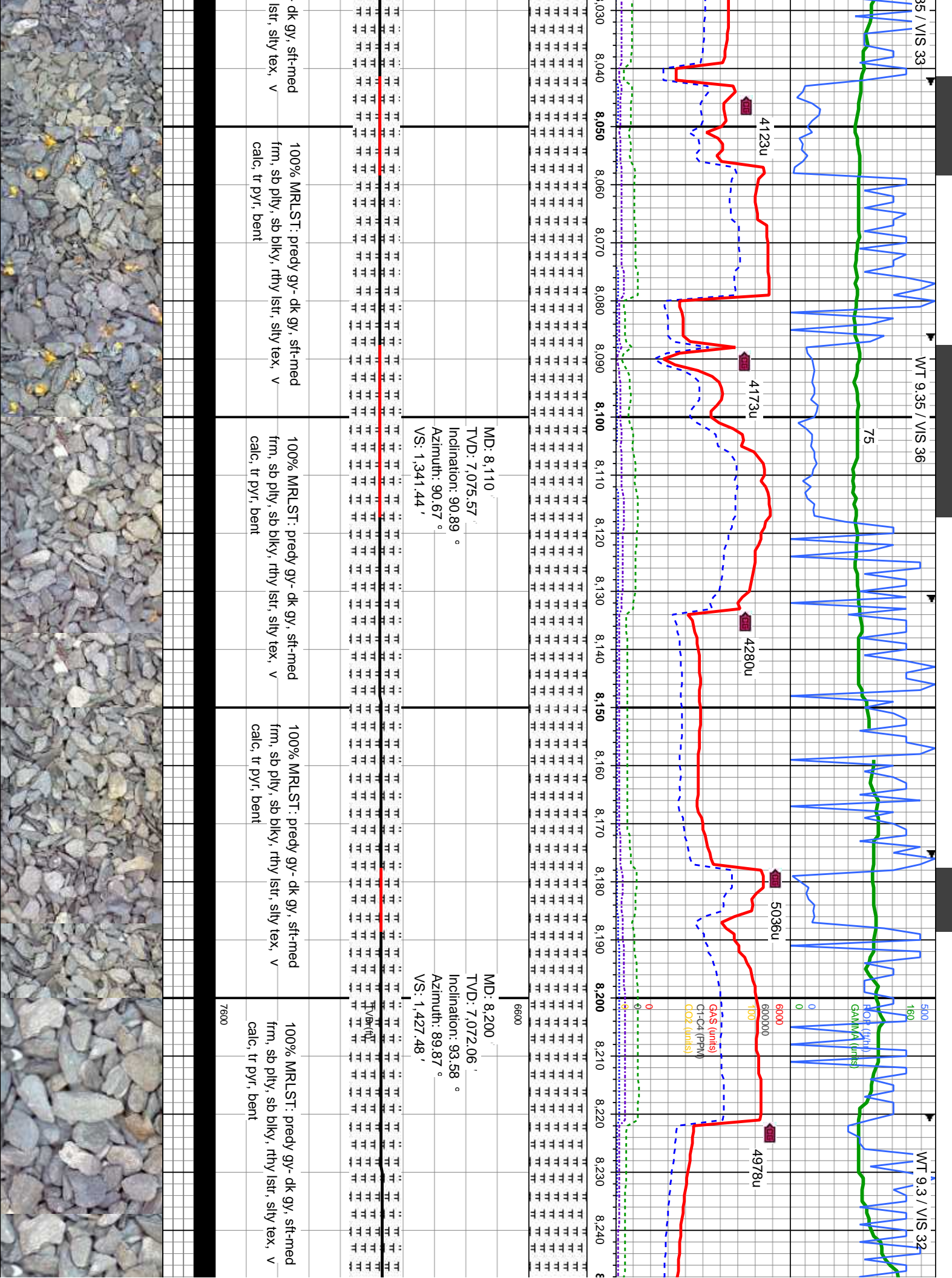
80% MRLST: predy gy- dk gy, sft-med frm, sb pily, sb blk, rthy lstr, silty tex, mod fss, org/calc mt, v calc, com mic fos: 20% CHK: lly- gy, mot-stri, sft, sb pily-sb blk, rthy-sb wxy lstr, silty tex, v calc, tr pyr

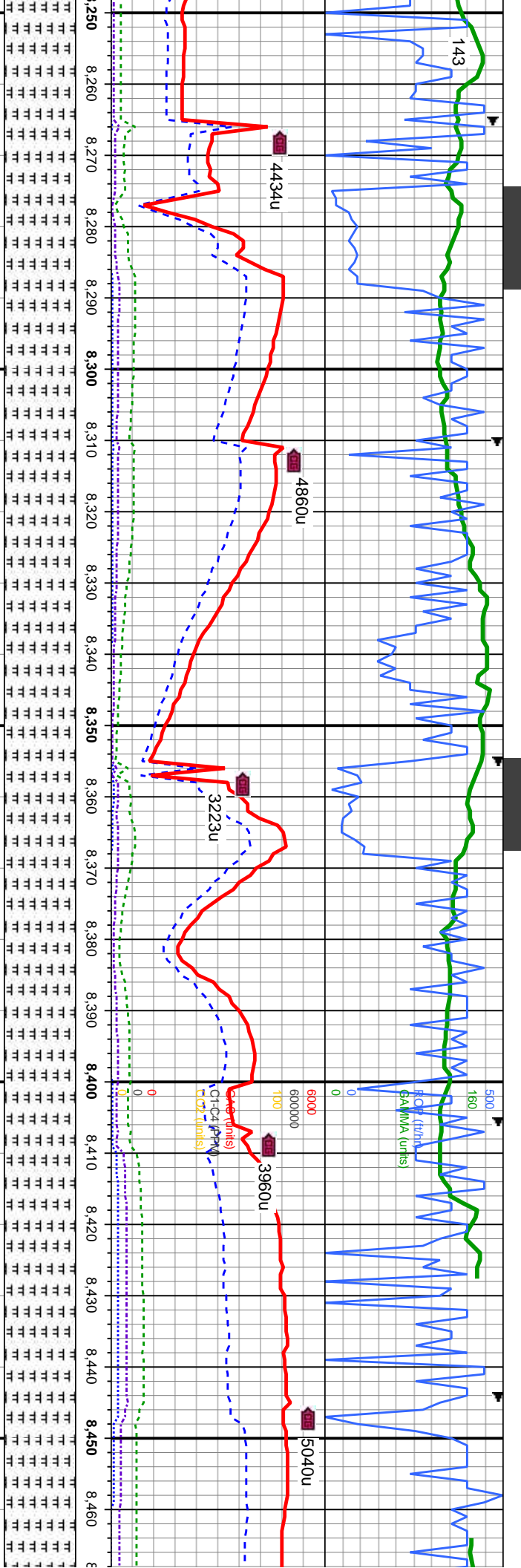
90% MRLST: predy gy- dk gy, sft-med frm, sb pily, sb blk, rthy lstr, silty tex, mod fss, org/calc mt, v calc, com mic fos: 10% CHK: lly- gy, mot-stri, sft, sb pily-sb blk, rthy-sb wxy lstr, silty tex, v calc

90% MRLST: predy gy- dk gy, sft-med frm, sb pily, sb blk, rthy lstr, silty tex, mod fss, org/calc mt, v calc, com mic fos: 10% CHK: lly- gy, mot-stri, sft, sb pily-sb blk, rthy-sb wxy lstr, silty tex, v calc

100% MRLST: predy gy- dk gy, sft-med frm, sb pily, sb blk, rthy lstr, silty tex, mod fss, org/calc mt, v calc, com mic fos, tr pyr







MD: 8,289'
TVD: 7,066.99'
Inclination: 92.96°
Azimuth: 90.55°
VS: 1,512.53'

MD: 8,379'
TVD: 7,063.09'
Inclination: 92°
Azimuth: 89.97°
VS: 1,598.57'

MD: 8,440'
TVD: 7,060.00'
Inclination: 92°
Azimuth: 89.97°
VS: 1,600.00'

100% MRLST: predy gy- dk gy, sft-med
frm, sb pily, sb blkly, rthy lstr, silty tex, v
calc, tr inoc frag, chk

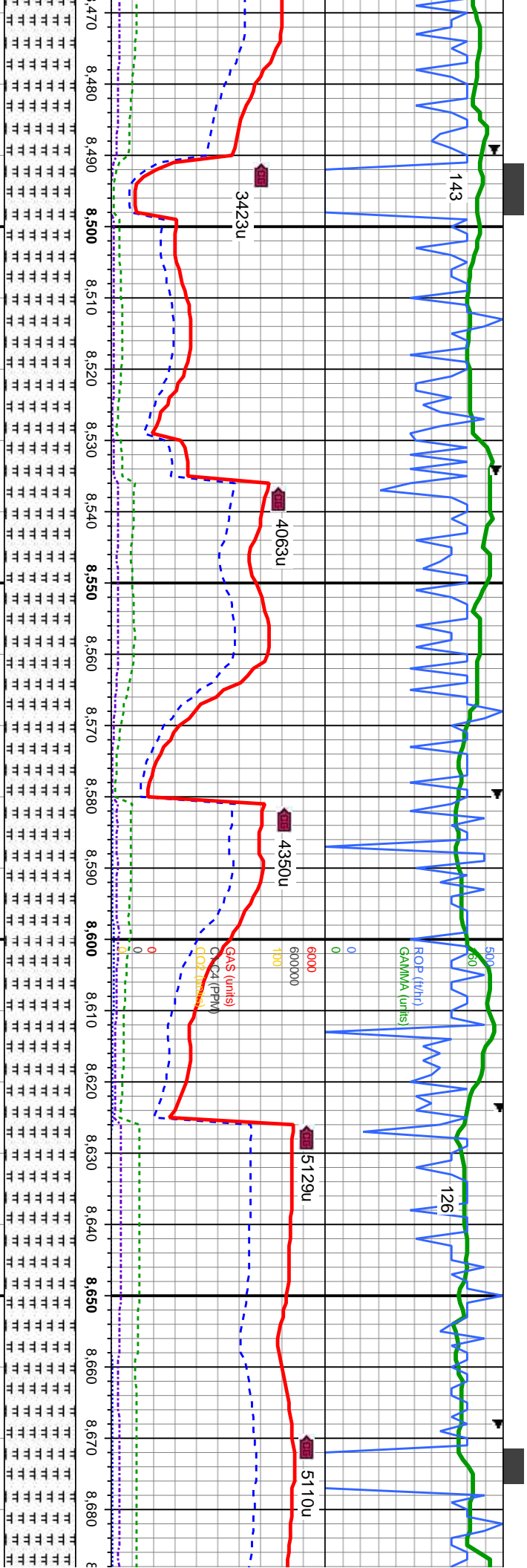
100% MRLST: predy gy- dk gy, sft-med
frm, sb pily, sb blkly, rthy lstr, silty tex, v
calc, tr inoc frag, chk

100% MRLST: predy gy- dk gy, sft-med
frm, sb pily, sb blkly, rthy lstr, silty tex, v
calc, tr inoc frag, chk

100% MRLST: predy gy- dk gy, sft-med
frm, sb pily, sb blkly, rthy lstr, silty tex, v
calc, tr inoc frag, chk

100% MRLST: predy gy- dk gy, sft-med
frm, sb pily, sb blkly, rthy lstr, silty tex, v
calc, tr inoc frag, chk





MD: 8,558
TVD: 7,055.88
Inclination: 92.56
Azimuth: 89.18
VS: 1,770.28

MD: 8,648
TVD: 7,051.32
Inclination: 93.24
Azimuth: 87.67
VS: 1,857.08

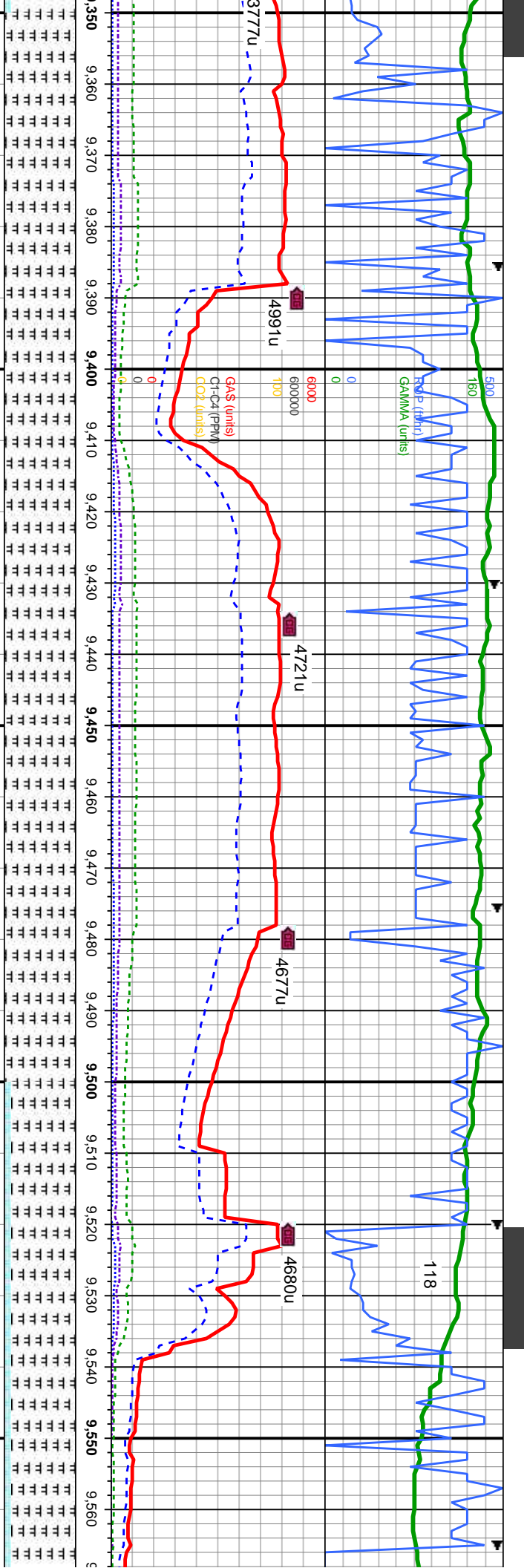
predy gy - dk gy, sft-med
blky, rthy lstr, silty tex, v
g, chk

100% MRLST: predy gy - dk gy, sft-med
frm, sb plty, sb blky, rthy lstr, silty tex, v
calc, tr inoc frag, chk

100% MRLST: predy gy - dk gy, sft-med
frm, sb plty, sb blky, rthy lstr, silty tex, v
calc, tr inoc frag, chk, pyr

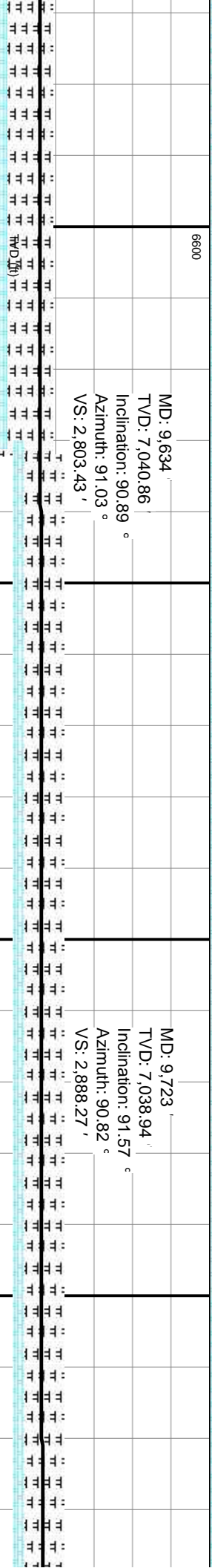
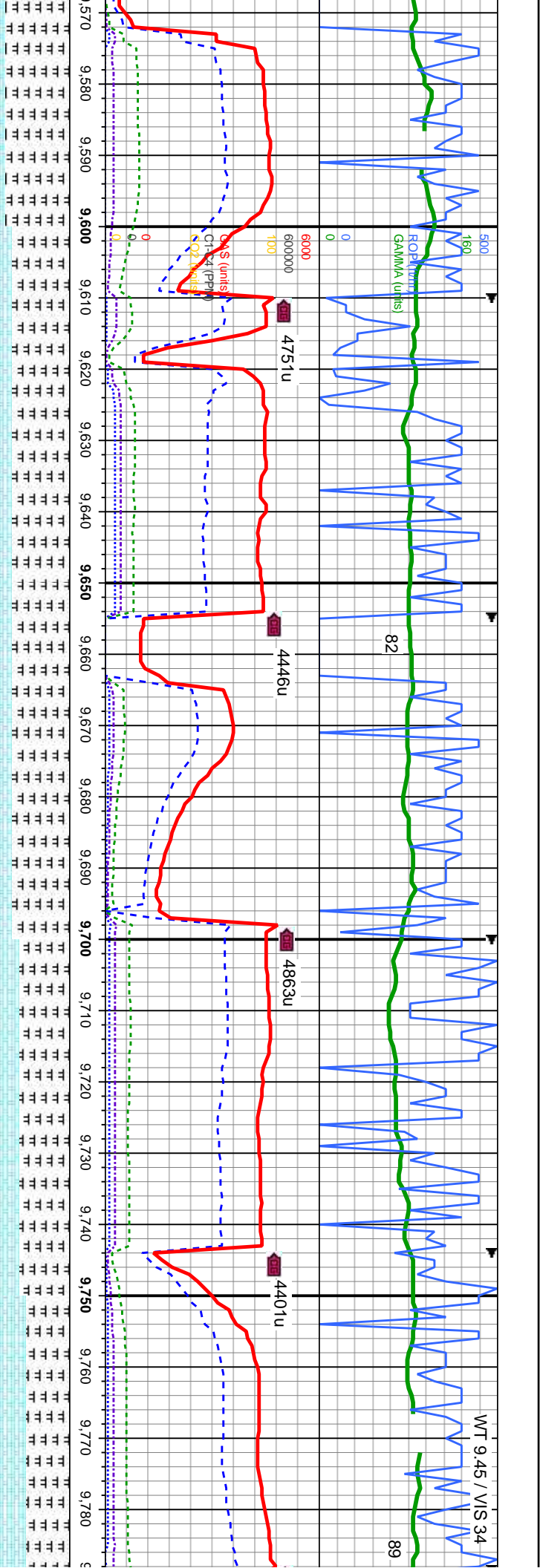
100% MRLST: predy gy - dk gy, sft-med
frm, sb plty, sb blky, rthy lstr, silty tex, v
calc, tr inoc frag, chk, pyr





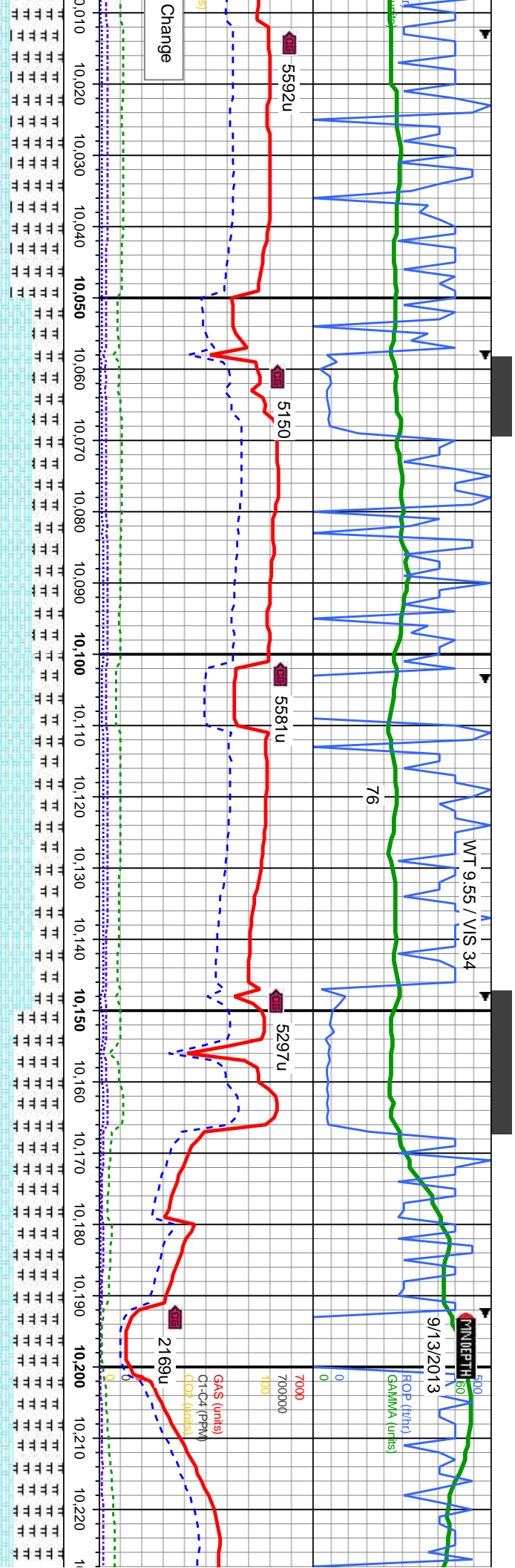
100% MRLST: predy gy- dk gy, sft-med frm, sb pily, sb blk, rthy lstr, sily tex, v calc, tr chk, pyr bent	100% MRLST: predy gy- dk gy, sft-med frm, sb pily, sb blk, rthy lstr, sily tex, v 7600 calc, tr chk, pyr bent	100% MRLST: predy gy- dk gy, sft-med frm, sb pily, sb blk, rthy lstr, sily tex, v calc, tr chk, pyr, bent	90% MRLST: predy gy- dk gy, sft-med frm, sb pily, sb blk, rthy lstr, sily tex, org/calc mtk, v calc, 10% CHK: lthy-gy brn, mot-stri, sft, sb pily-sb blk, rthy-sb wxy lstr, v calc	90% MRLST: frm, sb pily, sft org/calc mtk, v mot-stri, sft, sl lstr, v calc
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predy gy- dk gy, sft-med b bly, rthy lstr, silty tex, calc, 10% CHK: ltgy-gy brn, p pty-sb bly, rthy-sb wxy	80% MRLST: predy gy- dk gy, sft-med frm, sb pty, sb bly, rthy lstr, silty tex, org/calc mtx, v calc: 20% CHK: ltgy-gy brn, mot-stri, sft, sb pty-sb bly, rthy-sb wxy lstr, v calc, tr inoc frag	80% MRLST: predy gy- dk gy, sft-med frm, sb pty, sb bly, rthy lstr, silty tex, org/calc mtx, v calc: 20% CHK: ltgy-gy brn, mot-stri, sft, sb pty-sb bly, rthy-sb wxy lstr, v calc, tr inoc frag, tr pyr	70% MRLST: predy gy- dk gy, sft-med frm, sb pty, sb bly, rthy lstr, silty tex, org/calc mtx, v calc: 30% CHK: ltgy-gy brn, mot-stri, sft, sb pty-sb bly, rthy-sb wxy lstr, v calc, tr inoc frag, tr pyr	60% MRLST: predy gy- dk gy, sft-med frm, sb pty, sb bly, rthy lstr, silty l org/calc mtx, v calc: 40% CHK: ltg brn, mot-stri, sft, sb pty-sb bly, r wxy lstr, v calc, tr inoc frag, tr pyr
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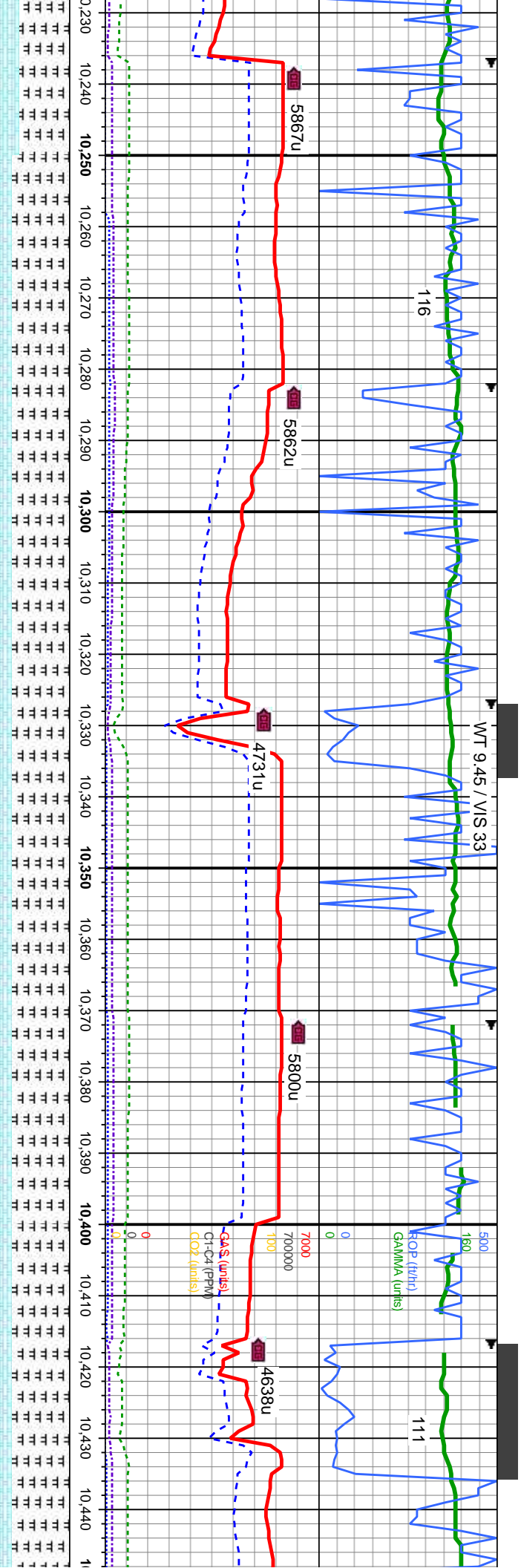


MD: 10,082'
TVD: 7,027.13'
Inclination: 90.77°
Azimuth: 90.79°
VS: 3,232.22'

MD: 10,171'
TVD: 7,027.34'
Inclination: 88.95°
Azimuth: 92.2°
VS: 3,316.81'

70% MRLST: predy gy- dk gy, sft-med n, sb pty, sb blk, rthy lstr, silty tex, org/calc mt, v calc, 25% CHK: ltgy-gy, mot-stri, sft, sb pty-sb blk, rthy-sb lstr, v calc, tr inoc frag	55% CHK: ltgy-gy brn, mot-stri, sft, sb pty-sb blk, rthy-sb wxy lstr, v calc, tr inoc frag: 45% MRLST: predy gy- dk gy, sft-med frm, sb pty, sb blk, rthy lstr, silty tex, org/calc mt, v calc	60% CHK: ltgy-gy brn, mot-stri, sft, sb pty-sb blk, rthy-sb wxy lstr, v calc, tr inoc frag: 40% MRLST: predy gy- dk gy, sft-med frm, sb pty, sb blk, rthy lstr, silty tex, org/calc mt, v calc	70% MRLST: predy gy- dk gy, sft-med frm, sb pty, sb blk, rthy lstr, silty tex, org/calc mt, v calc, 30% CHK: ltgy-gy, mot-stri, sft, sb pty-sb blk, rthy-sb wxy lstr, v calc, tr inoc frag, rr pyr	70% MRLST: predy gy- frm, sb pty, sb blk, rth org/calc mt, v calc: 30 mot-stri, sft, sb pty-sb l lstr, v calc, tr inoc frag,
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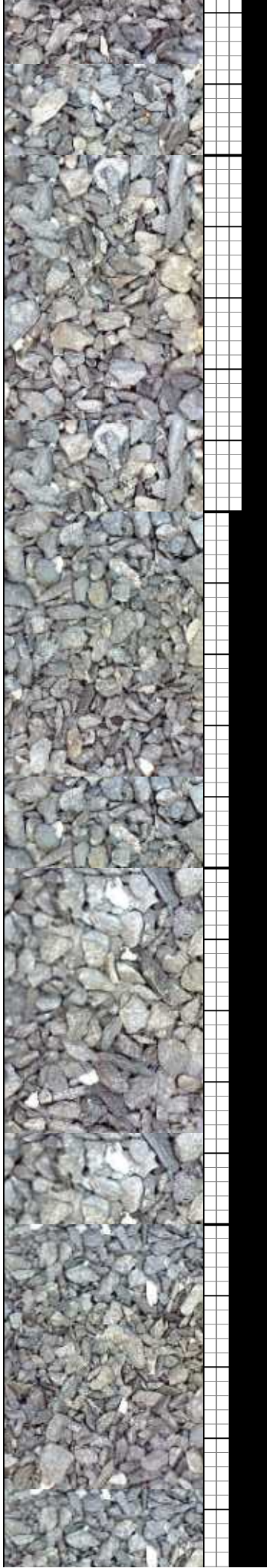


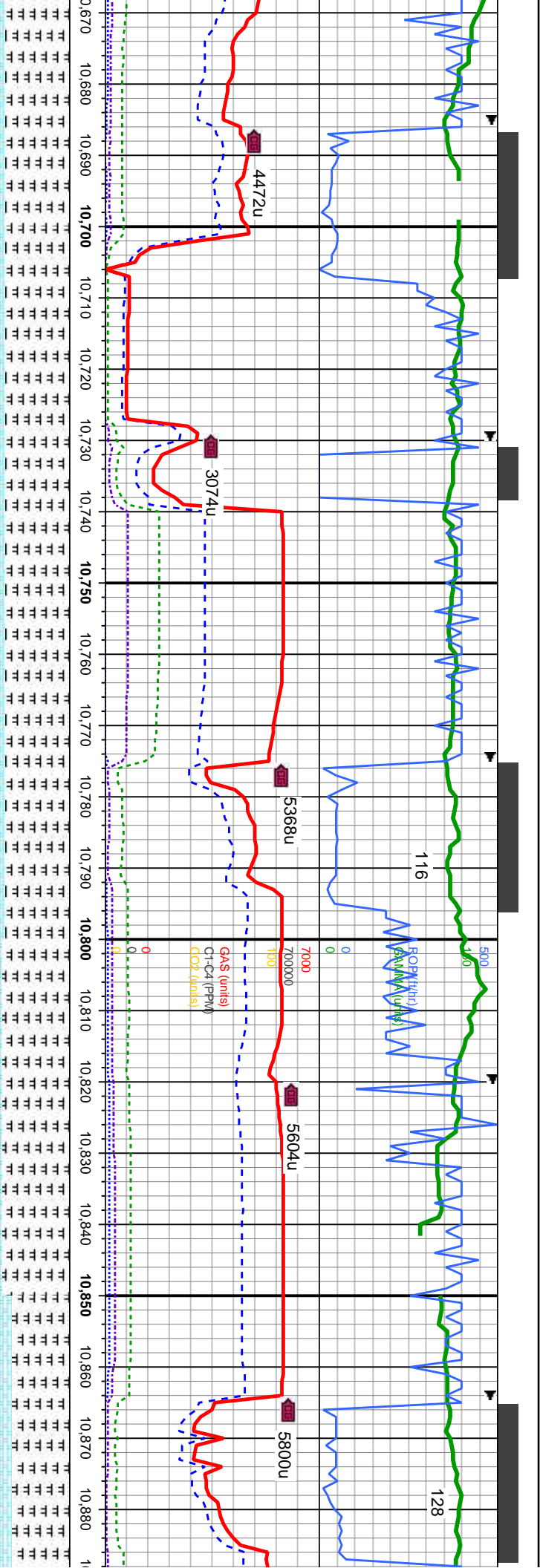
MD: 10,261
TVD: 7,028.99
Inclination: 88.95 °
Azimuth: 92.2 °
VS: 3,401.98'

MD: 10,350
TVD: 7,028.94
Inclination: 91.11 °
Azimuth: 92.51 °
VS: 3,486.14'

MD: 10,440
TVD: 7,028.29
Inclination: 89.72
Azimuth: 88.54 °
VS: 3,572.12'

dk gy, sft-med y lstr, silty tex, % CHK: lly-gy, blkly, rthy-sb wxy tr pyr	80% MRLST: predy gy- dk gy, sft-med frm, sb plty, sb blkly, rthy lstr, silty tex, org/calc mtx, v calc: 20% CHK: lly-gy, mot-stri, sft, sb plty-sb blkly, rthy-sb wxy lstr, v calc, tr inoc frag, tr pyr	80% MRLST: predy gy- dk gy, sft-med frm, sb plty, sb blkly, rthy lstr, silty tex, org/calc mtx, v calc: 20% CHK: lly-gy, mot-stri, sft, sb plty-sb blkly, rthy-sb wxy lstr, v calc, tr inoc frag, tr pyr	80% MRLST: predy gy- dk gy, sft-med frm, sb plty, sb blkly, rthy lstr, silty tex, org/calc mtx, v calc: 20% CHK: lly-gy, mot-stri, sft, sb plty-sb blkly, rthy-sb wxy lstr, v calc, tr inoc frag, tr pyr
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MD: 10,709'
TVD: 7,027.4'
Inclination: 90.55°
Azimuth: 88.68°
VS: 3,832.58'

MD: 10,798'
TVD: 7,027.97'
Inclination: 88.7°
Azimuth: 86.7°
VS: 3,918.81'

MD: 10
TVD: 7
Inclination
Azimuth
VS: 4.0

predy gy- dk gy, sft-med frm,
rthy lstr, silty tex, org/calc
% CHK: ltgy-gy, mot-strf, sft,
rthy-sb wxy lstr, v calc, tr

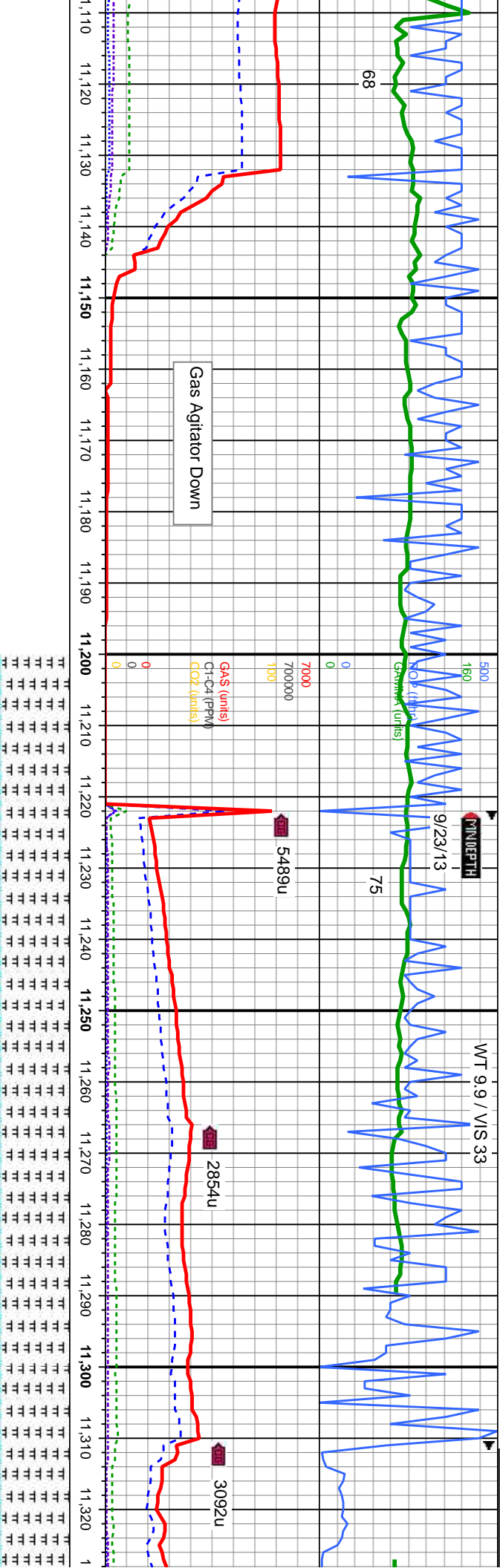
90% MRLST: predy gy- dk gy, sft-med
frm, sb pily, sb blkly, rthy lstr, silty tex,
org/calc mtx, v calc; 10% CHK: ltgy-gy,
mot-strf, sft, sb pily-sb blkly, rthy-sb wxy
lstr, v calc, tr inoc frag, tr pyr

90% MRLST: predy gy- dk gy, sft-med frm,
sb pily, sb blkly, rthy lstr, silty tex, org/calc
mtx, v calc; 10% CHK: ltgy-gy, mot-strf, sft,
sb pily-sb blkly, rthy-sb wxy lstr, v calc, tr
inoc frag, tr pyr

95% MRLST: predy gy- dk gy, sft-med
frm, sb pily, sb blkly, rthy lstr, silty tex,
org/calc mtx, v calc; 5% CHK: ltgy-gy,
mot-strf, sft, sb pily-sb blkly, rthy-sb wxy
lstr, v calc, tr pyr

80% MRLST: predy gy- dk gy, sft-r
sb pily, sb blkly, rthy lstr, silty tex, or
mtx, v calc; 20% CHK: ltgy-gy, mot
sb pily-sb blkly, rthy-sb wxy lstr, v c





MD: 11,157'
TVD: 7,034.44'
Inclination: 88.83 °
Azimuth: 88.72 °
VS: 4,265.09'

Resumed drilling @ 03:34 hrs
9/23/13

MD: 11,246'
TVD: 7,035.54'
Inclination: 89.75 °
Azimuth: 87.8 °
VS: 4,351.1'

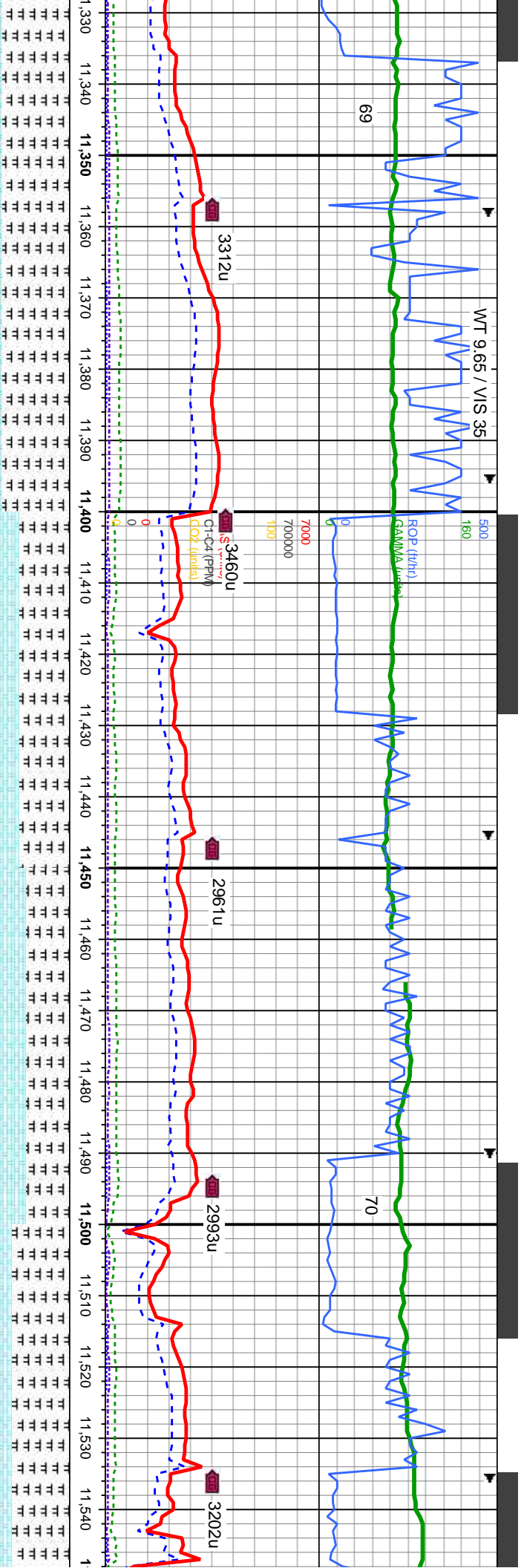
95% MRLST: predy gy- dk gy, sft-med
frm, sb pily, sb blkly, rthy lstr, silty tex,
org/calc mtx, v calc: 5% CHK: ltgy-gy,
mot-stri, sft, sb pily-sb blkly, rthy-sb wxy
lstr, v calc, tr pyr, tr inoc

95% MRLST: predy gy- dk gy, sft-med
frm, sb pily, sb blkly, rthy lstr, silty tex,
org/calc mtx, v calc: 5% CHK: ltgy-gy,
mot-stri, sft, sb pily-sb blkly, rthy-sb wxy
lstr, v calc, tr inoc

95% MRLST: predy g
frm, sb pily, sb blkly, r
org/calc mtx, v calc: 5
mot-stri, sft, sb pily-s
wxy lstr, v calc, tr inoc

7600





ID: 11,335
VD: 7,035.95
Inclination: 89.72 °
Azimuth: 87.13 °
S: 4,437.42 '

MD: 11,425
TVD: 7,036.56
Inclination: 89.51 °
Azimuth: 86.75 °
VS: 4,524.91 '

MD: 11,515
TVD: 7,038.08
Inclination: 88.55 °
Azimuth: 89.43 °
VS: 4,611.94 '

gy-dk gy, sft-med
silty lstr, silty tex,
% CHK: ltgy-gy,
sb blk, rthy-sb

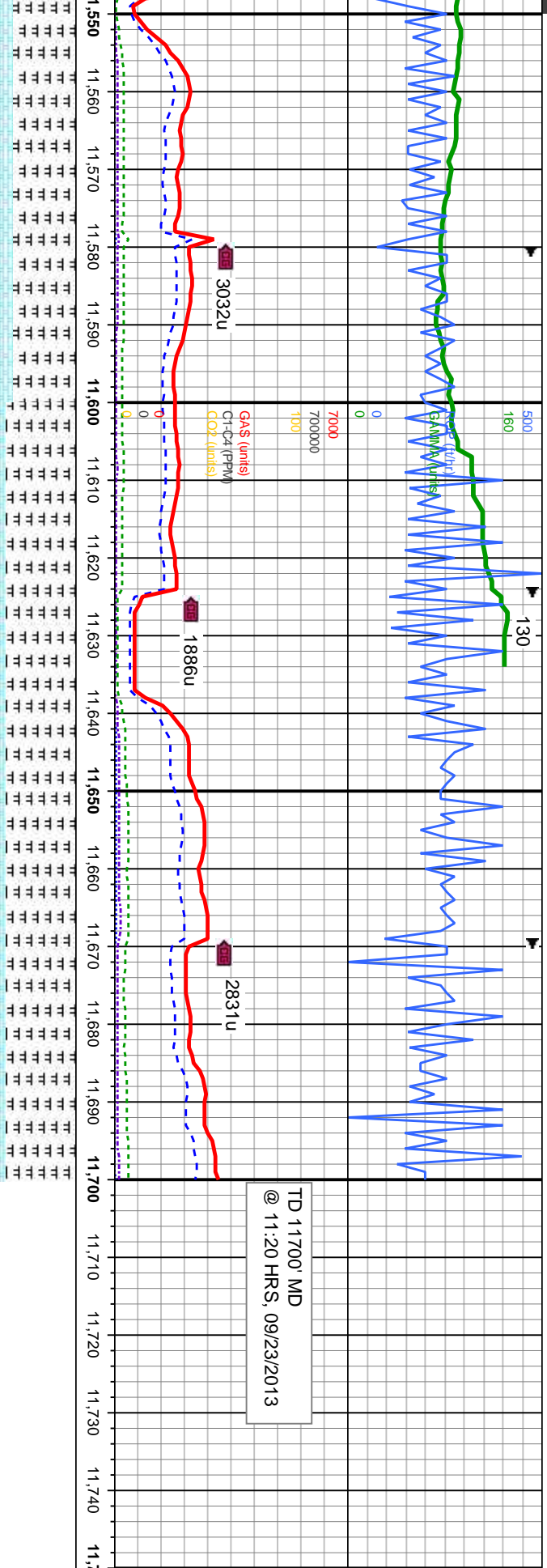
95% MRLST: predy gy-dk gy, sft-med
frm, sb pty, sb blk, rthy lstr, silty tex,
org/calc mtx, v calc, 5% CHK: ltgy-gy,
mot-stri, sft, sb pty-sb blk, rthy-sb
wxy lstr, v calc, tr lnoc

70% MRLST: predy gy-dk gy, sft-med
frm, sb pty, sb blk, rthy lstr, silty tex,
org/calc mtx, v calc, 30% CHK: ltgy-gy,
mot-stri, sft, sb pty-sb blk, rthy-sb wxy
zalc lstr, v calc, tr lnoc

60% MRLST: predy gy-dk gy, sft-med
frm, sb pty, sb blk, rthy lstr, silty tex,
org/calc mtx, v calc, 40% CHK: ltgy-gy,
mot-stri, sft, sb pty-sb blk, rthy-sb
wxy lstr, v calc, tr lnoc

80% MRLST: predy gy-dk gy, sft-med
frm, sb pty, sb blk, rthy lstr, silty tex,
org/calc mtx, v calc, 20% CHK: ltgy-gy,
mot-stri, sft, sb pty-sb blk, rthy-sb
wxy lstr, v calc, tr lnoc





MD: 11,604
TVD: 7,040.09
Inclination: 88.86 °
Azimuth: 90.93 °
VS: 4.697.12

MD: 11,634
TVD: 7,040.61
Inclination: 89.17 °
Azimuth: 90.47 °
VS: 4.725.75

80% MRLST: predy gy- dk gy, sft-med
frm, sb pily, sb blk, rthy lstr, slty tex,
org/calc mtx, v calc; 20% CHK:
ltgy-gy, mot-stri, sft, sb pily-sb blk,
rthy-sb wxy lstr, v calc, tr lnoc

90% MRLST: predy gy- dk gy, sft-med
frm, sb pily, sb blk, rthy lstr, slty tex,
org/calc mtx, v calc; 10% CHK: ltgy-gy,
mot-stri, sft, sb pily-sb blk, rthy-sb
wxy lstr, v calc, tr lnoc

90% MRLST: predy gy- dk gy, sft-med
frm, sb pily, sb blk, rthy lstr, slty tex,
org/calc mtx, v calc; 10% CHK: ltgy-gy,
mot-stri, sft, sb pily-sb blk, rthy-sb
lstr, v calc, tr lnoc

THANK YOU FOR CHOOSING
COLUMBINE LOGGING INC