



Scale: 5" / 100'
Measured Depth Log

Well Name Hurley H26-768

Location SHL SECTION 26 T3N R65W

State COLORADO

County WELD

Country USA

Rig Number H&P 517

API Number 05-123-46766

AFE # 205765

Geographic Region DJ BASIN

Field WATTENBERG

Spud Date 6/7/2018

Drilling Completed 6/9/2018

Surface Coordinates SHL Section 26 T3N R65W

Bottom Hole Coordinates SESW Section 14 T3N R65W

Ground Elevation 4822'

K.B. Elevation 4852'

Logged Interval 6338' To 16146'

Total Depth 16146'

Formation NIOBRARA B MARL

Type of Drilling Fluid OBM

Operator

Company NOBLE ENERGY, INC

Address 1625 Broadway,
Denver, CO 80223



Geologist

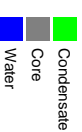
Name Sage Betts, Mark Sowinski

Company Terra Guidance

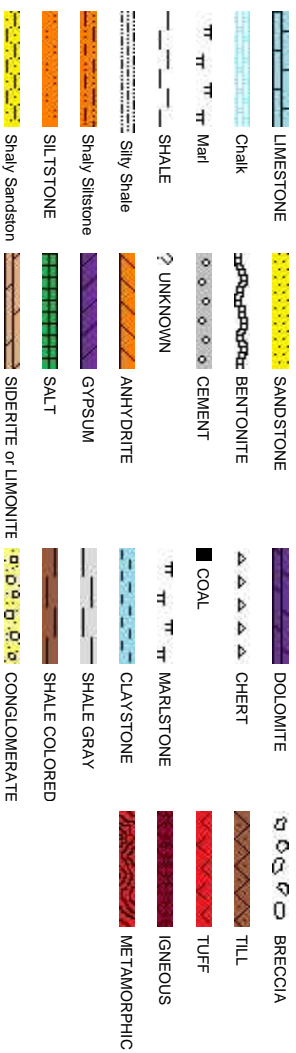
Address 1298 O Road
Loma CO 81524
(970) 260-5408



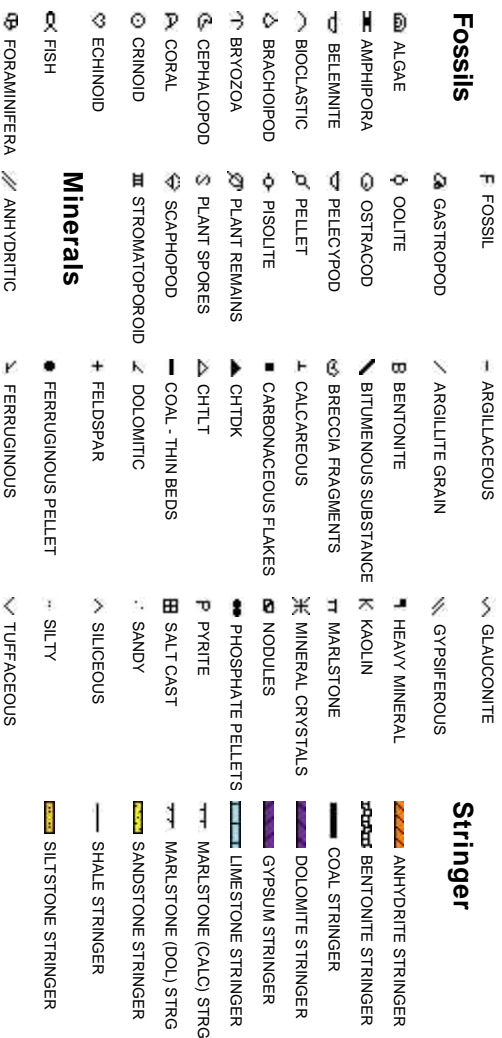
Color Coding



Rock Types



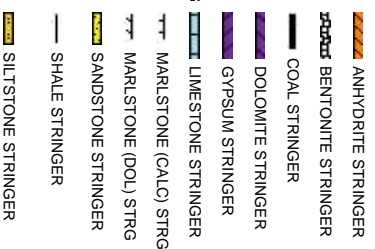
Accessories



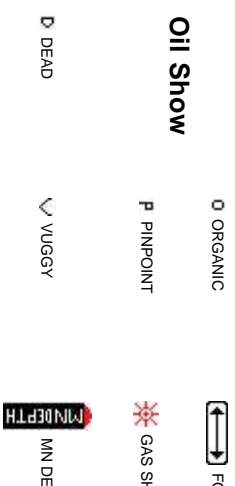
Fossils



Stringer



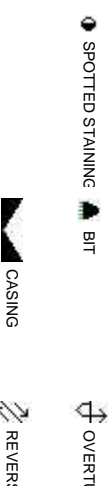
Other



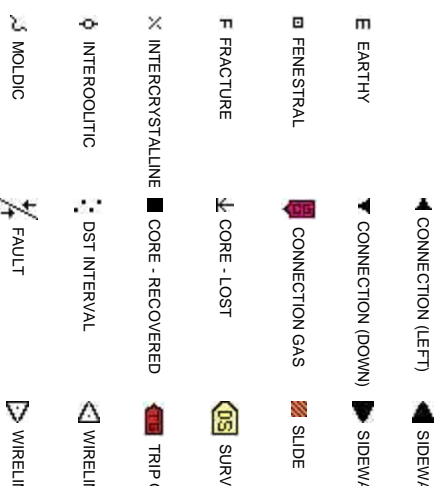
Oil Show



Engineering



Porosity



Dr Symbols

ORMATION TOP L LITHOGRAPHIC

Rounding

HOW MX MICROXLN

PTH A ANGULAR MS MUDSTONE

L FAULT R ROUNDED PS PACKSTONE

OW B SUBANG LWS WACKSTONE

URNED STRATA F SUBRND

SE FAULT

Sorting

ALL CORE (LEFT) M MODERATE

ALL CORE (RIGHT) BS BOUNDSTONE P POOR

C CHALKY W WELL

CX CRYPTOXLN

E EARTHY

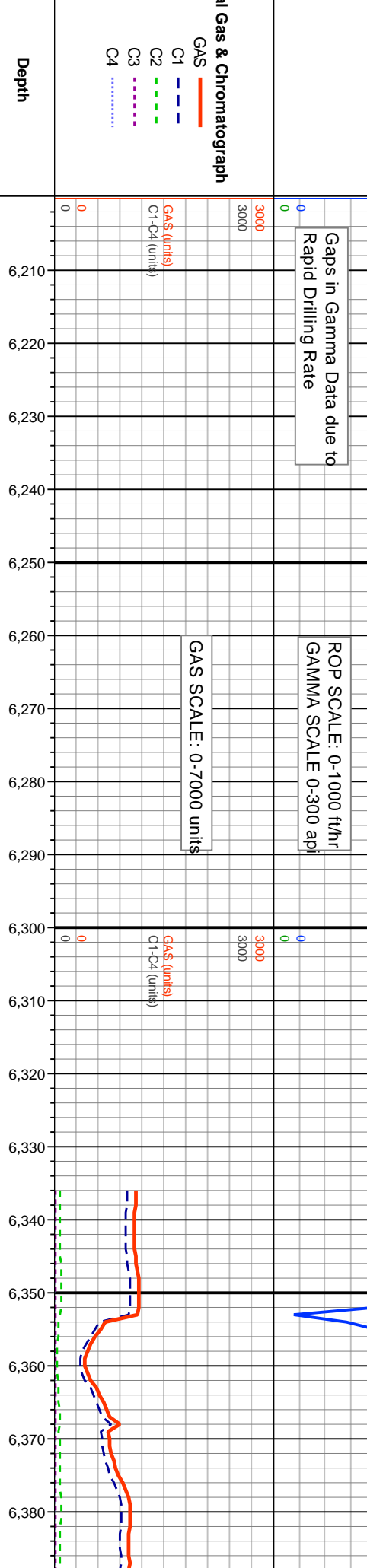
ConnectionGas (Vert)

NE TESTED - LEFT FX FINELYXLN

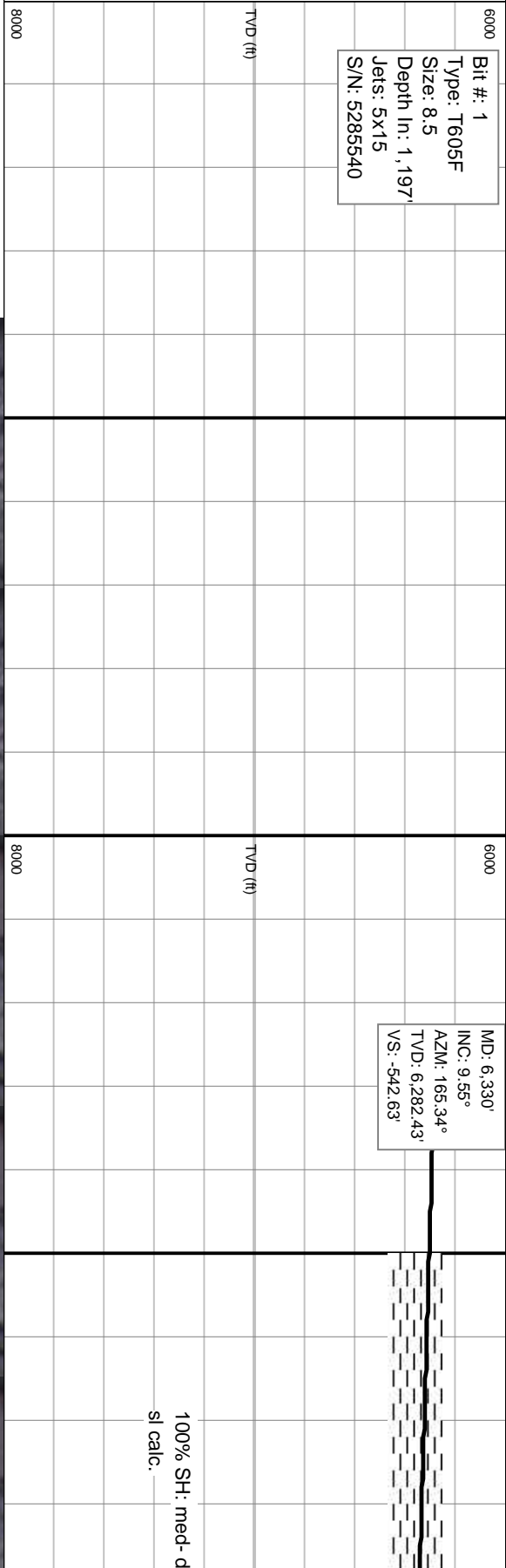
NE TESTED - RT ES GRANSTONE

Wellsite Geology Services Provided by Terra Guidance, LLC.
 Terra Guidance's Two Person Mudlogging Team Arrived On Site: 6/7/2018
 Begin Logging: 9,400' MD, 03:25 MDT on 6/8/2018
 Gas Detection: Pason Gas
 Rig: H&P 517
 Sample/Description Interval: 100' in Lateral

Curve/Survey Data
 ROP —
 Gamma —



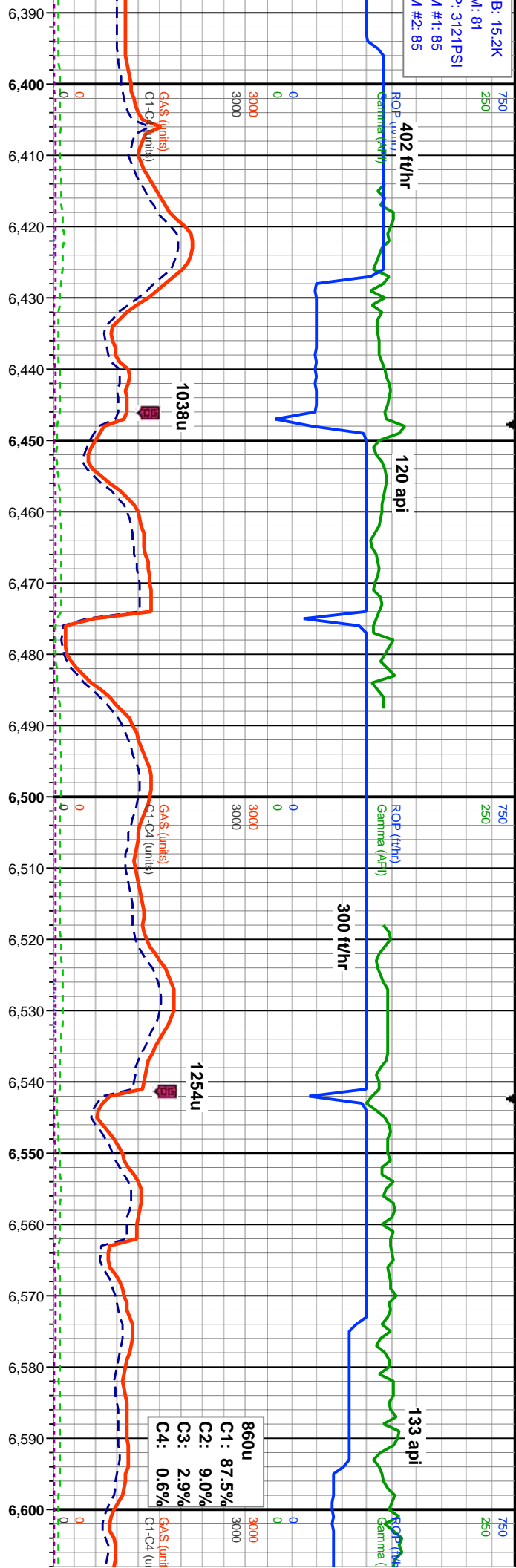
% Lithology



Images



B: 15.2K
M: 81
A #: 85
A #: 85



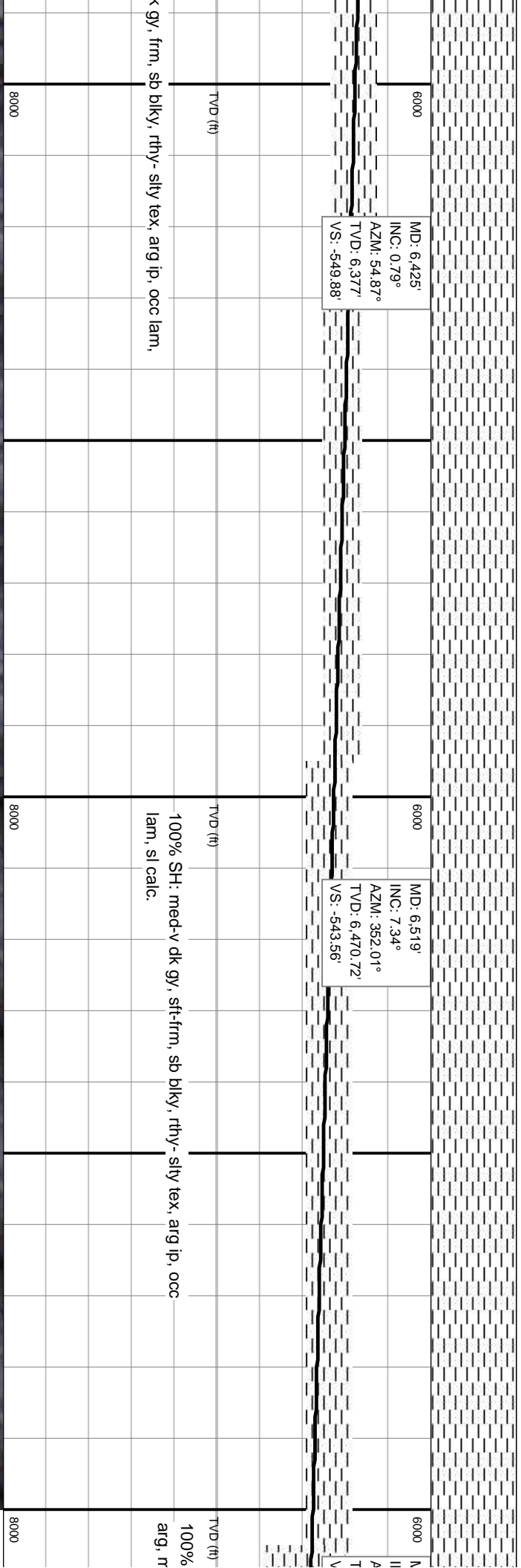
MD: 6.425'
INC: 0.79°
AZM: 54.87°
TVD: 6.377'
VS: -549.88'

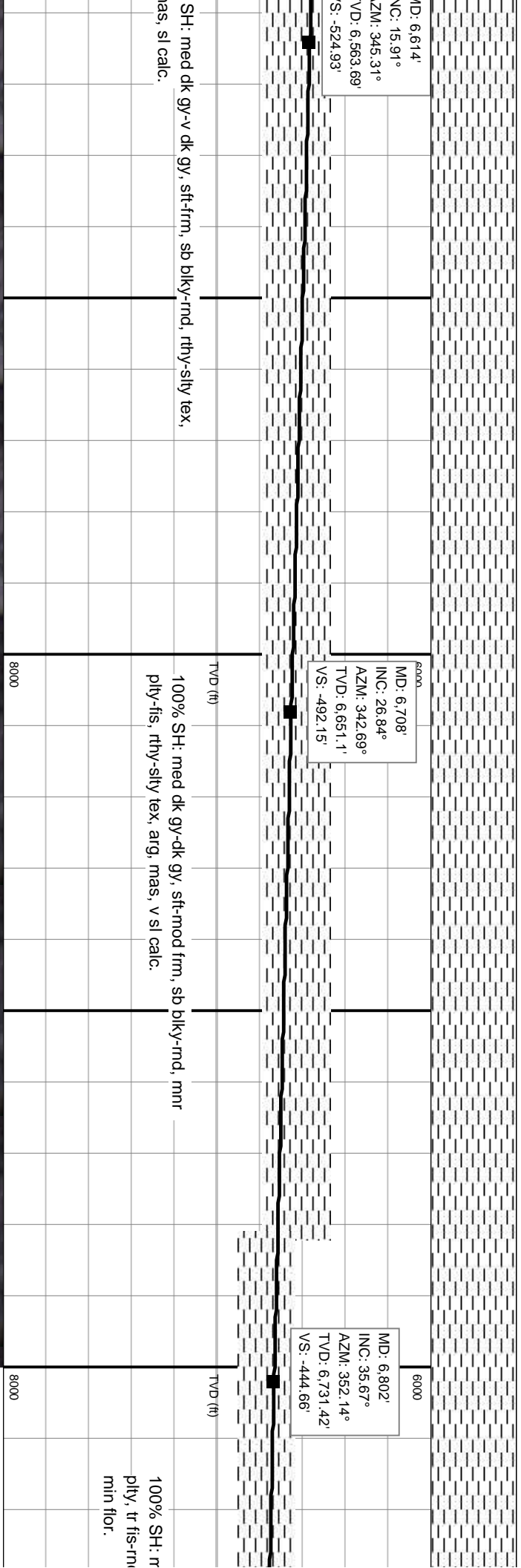
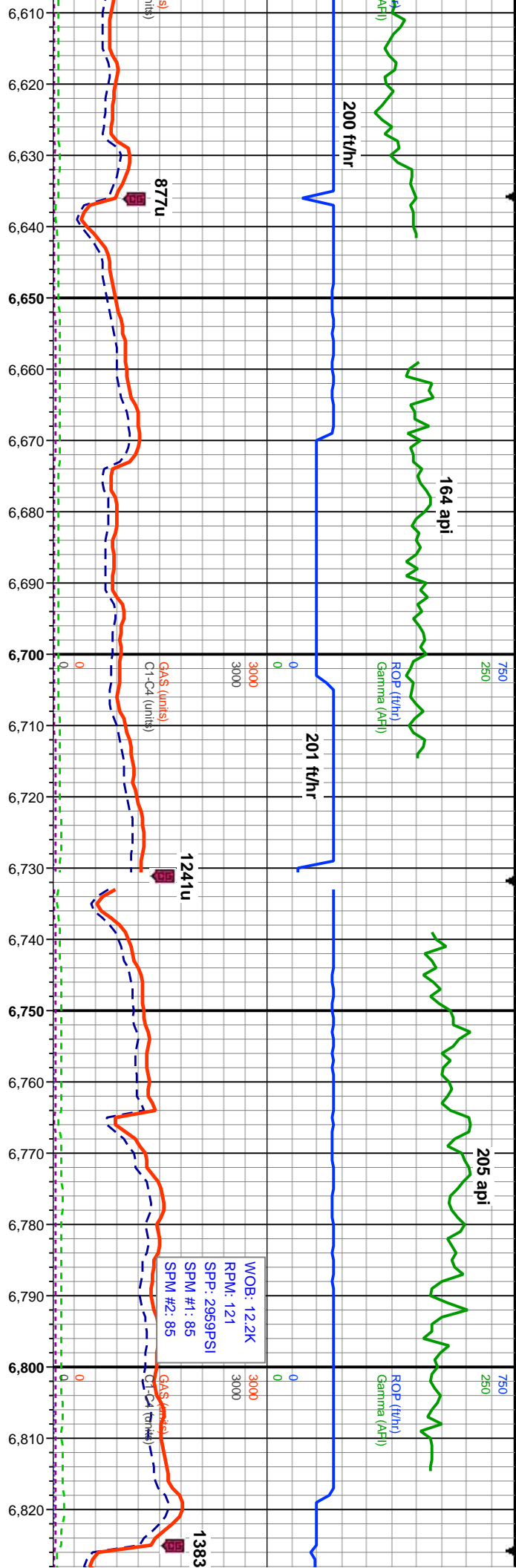
MD: 6.519'
INC: 7.34°
AZM: 352.01°
TVD: 6.470.72'
VS: -543.56'

TV D (ft)
100% gy, frm, sb blk, rthy- stly tex, arg ip, occ lam,

TV D (ft)
100% SH: med-v-dk gy, sft-frm, sb blk, rthy- stly tex, arg ip, occ lam, sl calc.

TV D (ft)
100% arg, n

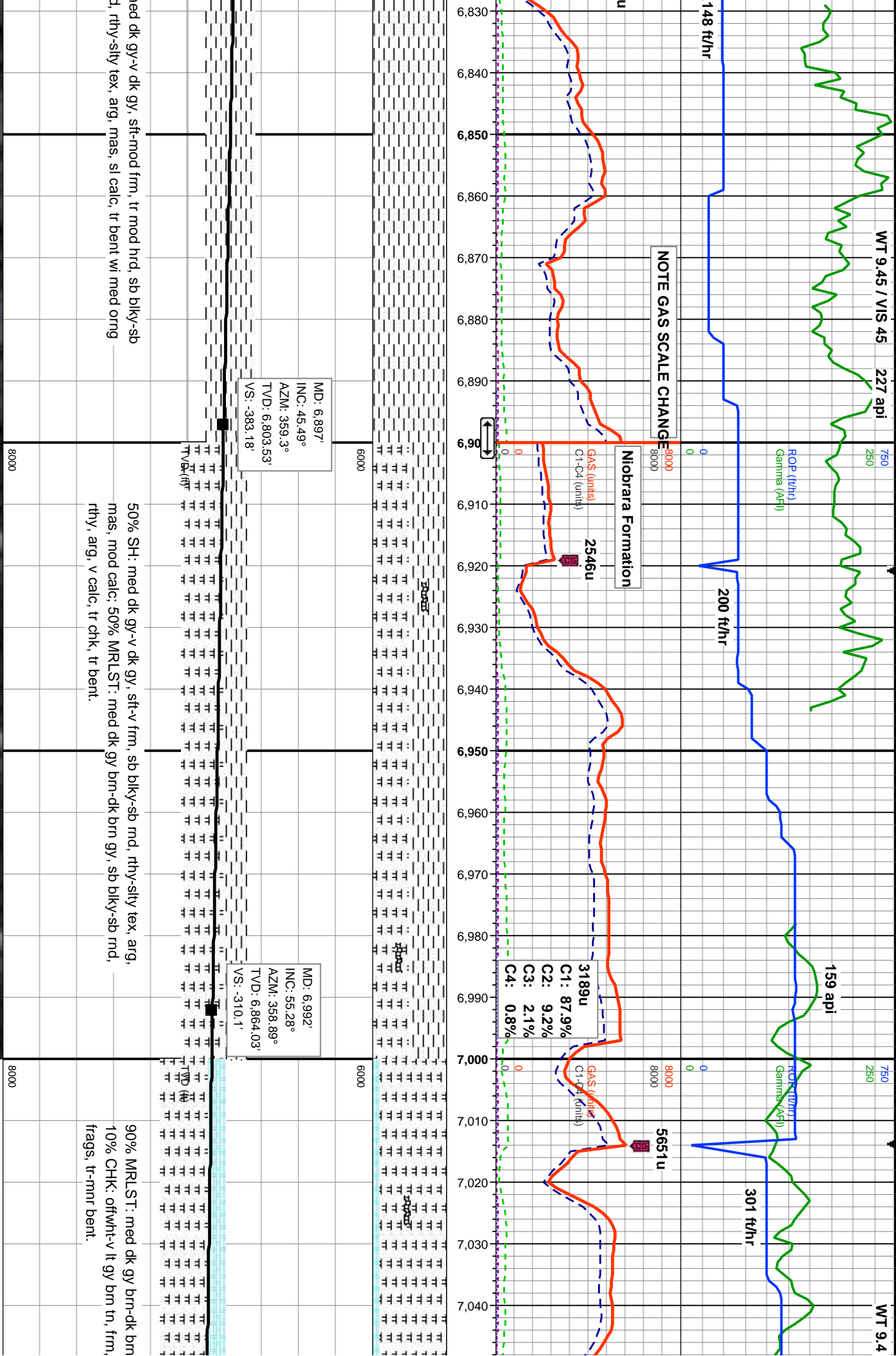




ID: 6,614'
 NC: 15.91°
 ZM: 345.31°
 VD: 6,563.69'
 S: -524.93'

MD: 6,708'
 INC: 26.84°
 AZM: 342.69°
 TVD: 6,651.1'
 VS: -492.15'

MD: 6,802'
 INC: 35.67°
 AZM: 352.14°
 TVD: 6,731.42'
 VS: -444.66'



med dk gy-v dk gy, sft-mod frm, tr mod hrd, sb blk-
 d, rthy-slty tex, arg, mas, sl calc, tr bent wi med orng

50% SH: med dk gy-v dk gy, sft-v frm, sb blk-
 mas, mod calc; 50% MRLST: med dk gy brn-dk brn gy, sb blk-
 rthy, arg, v calc, tr chk, tr bent.

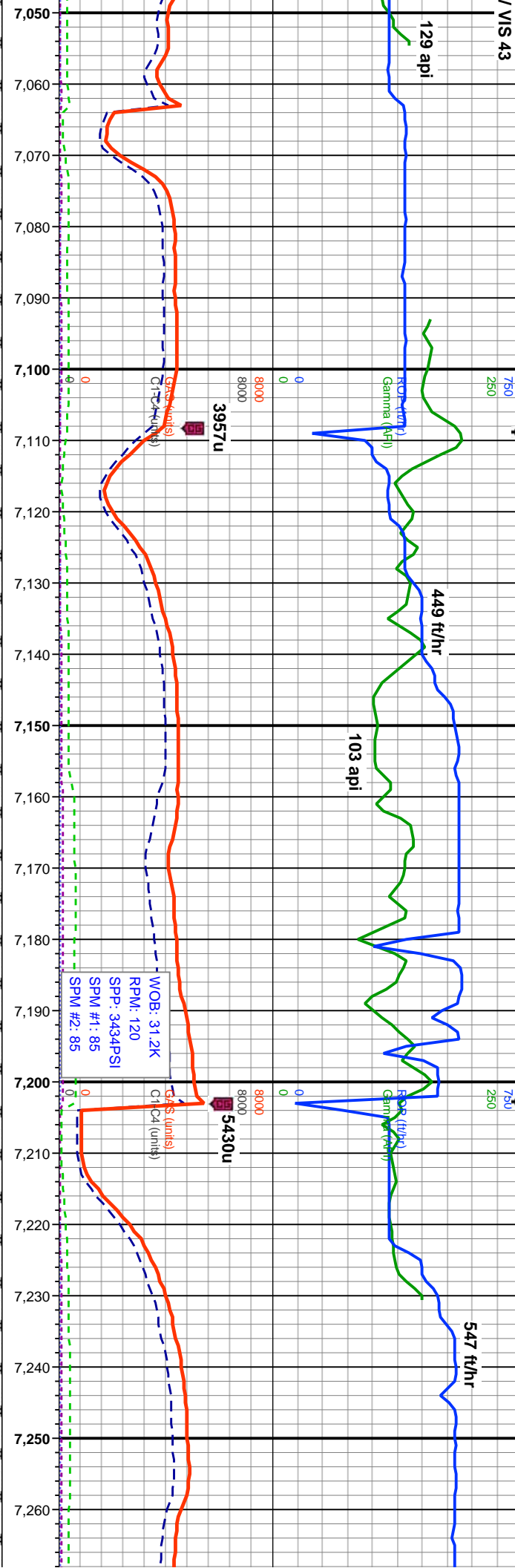
90% MRLST: med dk gy brn-dk brn
 10% CHK: offwht-v lt gy brn tn, frm,
 frags, tr-mnr bent.

129 api

449 ft/hr

103 api

547 ft/hr



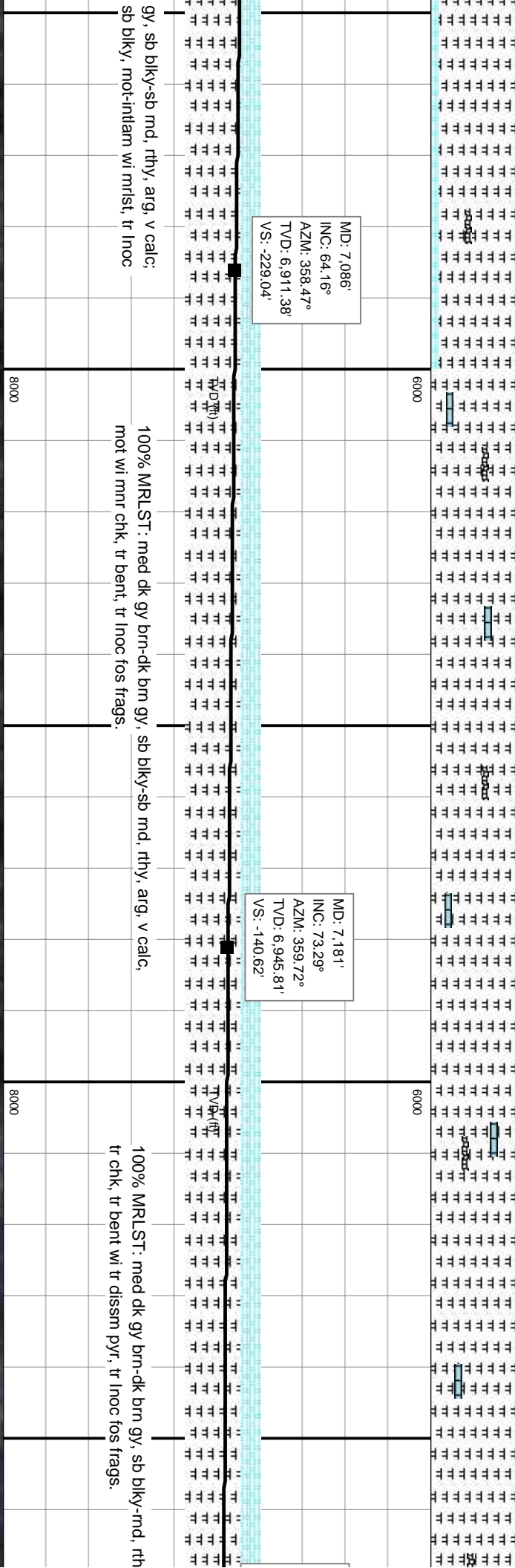
MD: 7.086'
INC: 64.16°
AZM: 358.47°
TVD: 6.911.38'
VS: -229.04'

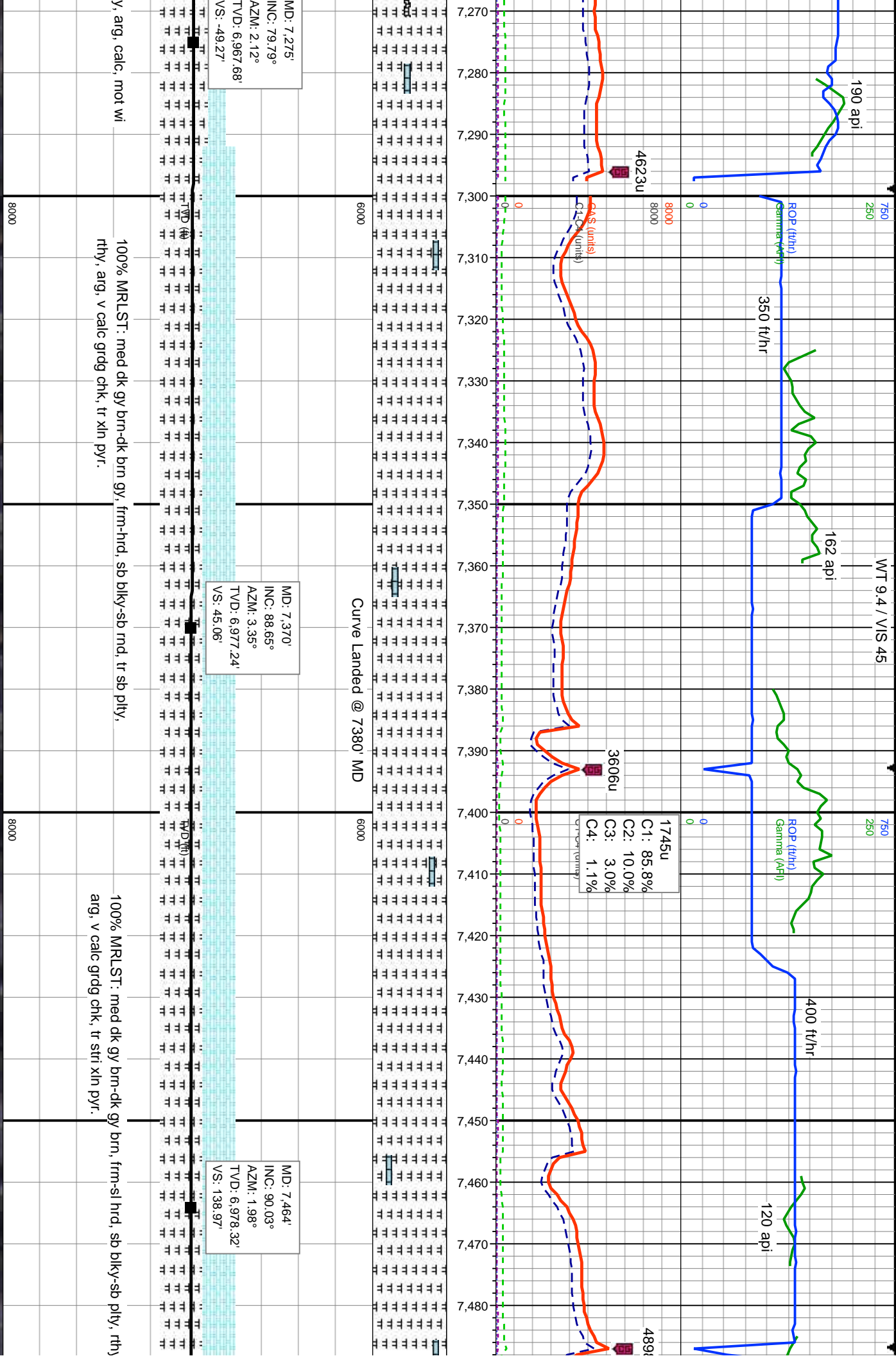
MD: 7.181'
INC: 73.29°
AZM: 359.72°
TVD: 6.945.81'
VS: -140.62'

gy, sb blkly-sb md, rthy, arg, v calc;
sb blkly, mot-inklam wi mlst, tr Inoc

100% MRLST: med dk gy brn-dk brn gy, sb blkly-sb md, rthy, arg, v calc;
mot wi mnr chk, tr bent, tr Inoc fos frags.

100% MRLST: med dk gy brn-dk brn gy, sb blkly-mnd, rth
tr chk, tr bent wi tr dissm pyr, tr Inoc fos frags.





WT 9.35 / VIS 4.3

750
250

500 ft/hr

ROP (ft/hr)
Gamma (API)

121 api

750
250

450 ft/hr

ROP (ft/hr)
Gamma (API)

69 api

750
250

8000
8000

5407u

WOB: 29.8K
RPM: 121
SPP: 3480PSI
SPM #1: 85
SPM #2: 85

5870u

ROP (ft/hr)
Gamma (API)
GAS (units)
C1-C4 (units)

7500

7510

7520

7530

7540

7550

7560

7570

7580

7590

7600

7610

7620

7630

7640

7650

7660

7670

7680

7690

7700

6000

6000

6000

MD: 7.559'
INC: 90.22°
AZM: 0.63°
TVD: 6.978, 12'
VS: 233.95'

MD: 7.654'
INC: 90.34°
AZM: 0.07°
TVD: 6.977, 65'
VS: 328.94'

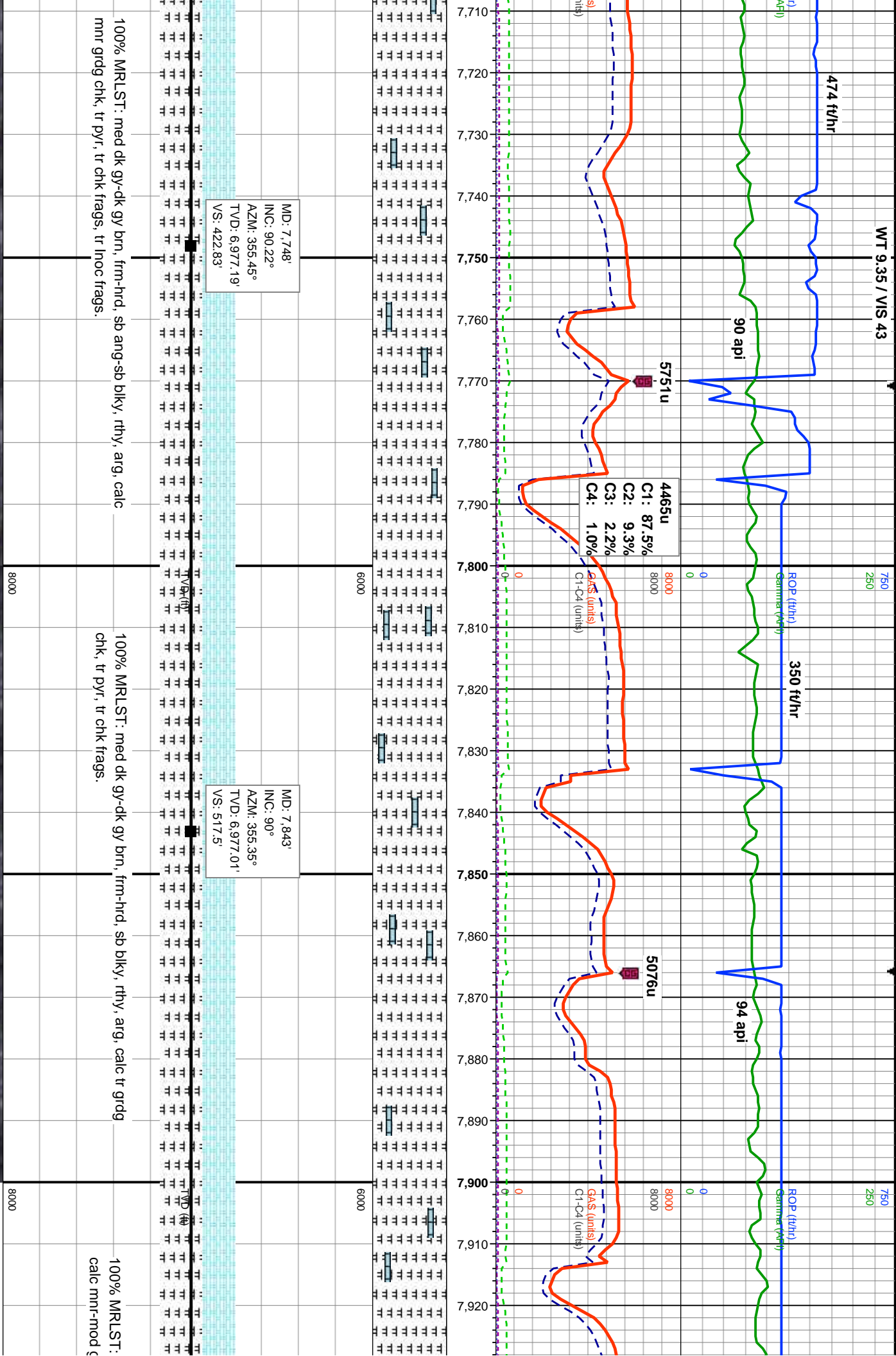
100% MRLST: med dk gy-dk gy brn, frm-hrd, sb ang-sb blk, rthy, arg, calc
mnr grdg chk, tr pyr.

80% MRLST: med dk gy-dk gy brn, frm-v hrd, sb ang-blky, rthy, v arg, calc
mnr grdg chk, tr pyr; 20% CHK: offwh-dk brn, frm, sb blk-nd, chky-mict,
sl arg, intbdd wl mlst, tr dissm pyr.

8000

8000

8000



WT 9.3 / VIS 43

750

250

449 ft/hr

117 api

426 ft/hr

122 api

350 ft/hr

0

8000

5609u

0

8000

0

8000

0

8000

0

8000

2664u

0

8000

0

8000

0

8000

0

8000

2541u

0

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8000

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8000

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8000

5609u

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2541u

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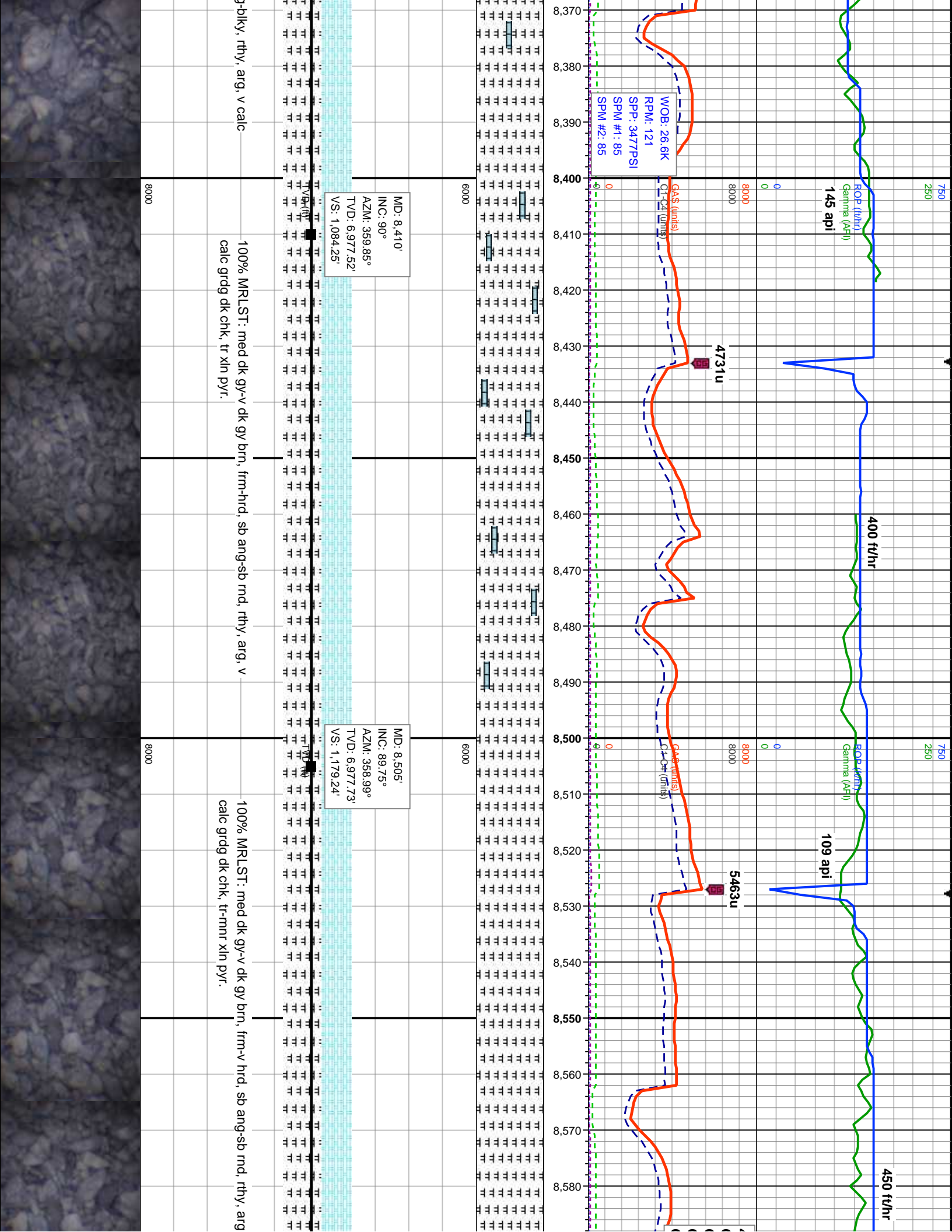
8000

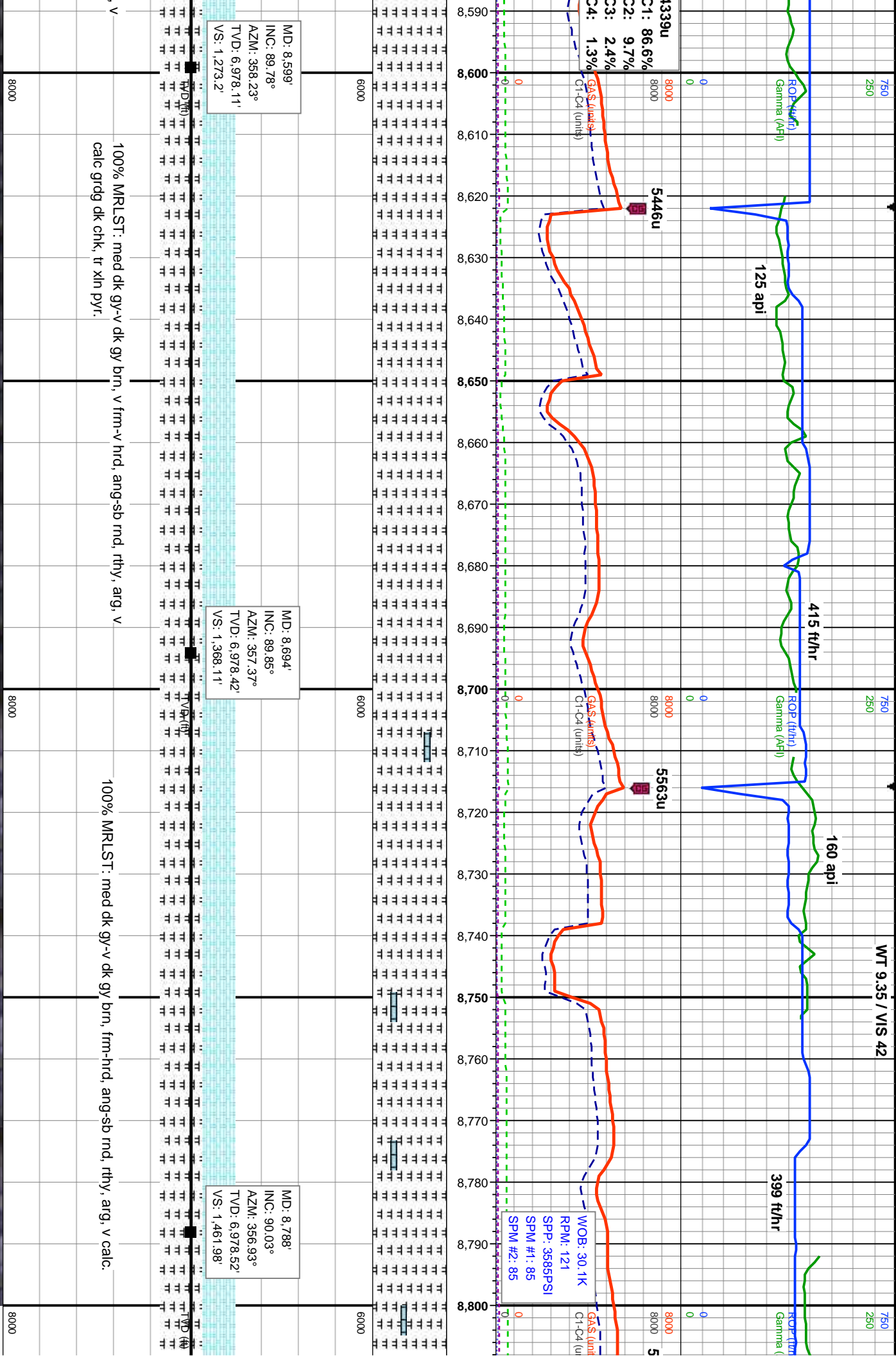
0

8000

5609u

0





13339u
 C1: 86.6%
 C2: 9.7%
 C3: 2.4%
 C4: 1.3%

MD: 8,599'
 INC: 89.78°
 AZM: 358.23°
 TVD: 6,978.11'
 VS: 1,273.2'

MD: 8,694'
 INC: 89.85°
 AZM: 357.37°
 TVD: 6,978.42'
 VS: 1,368.11'

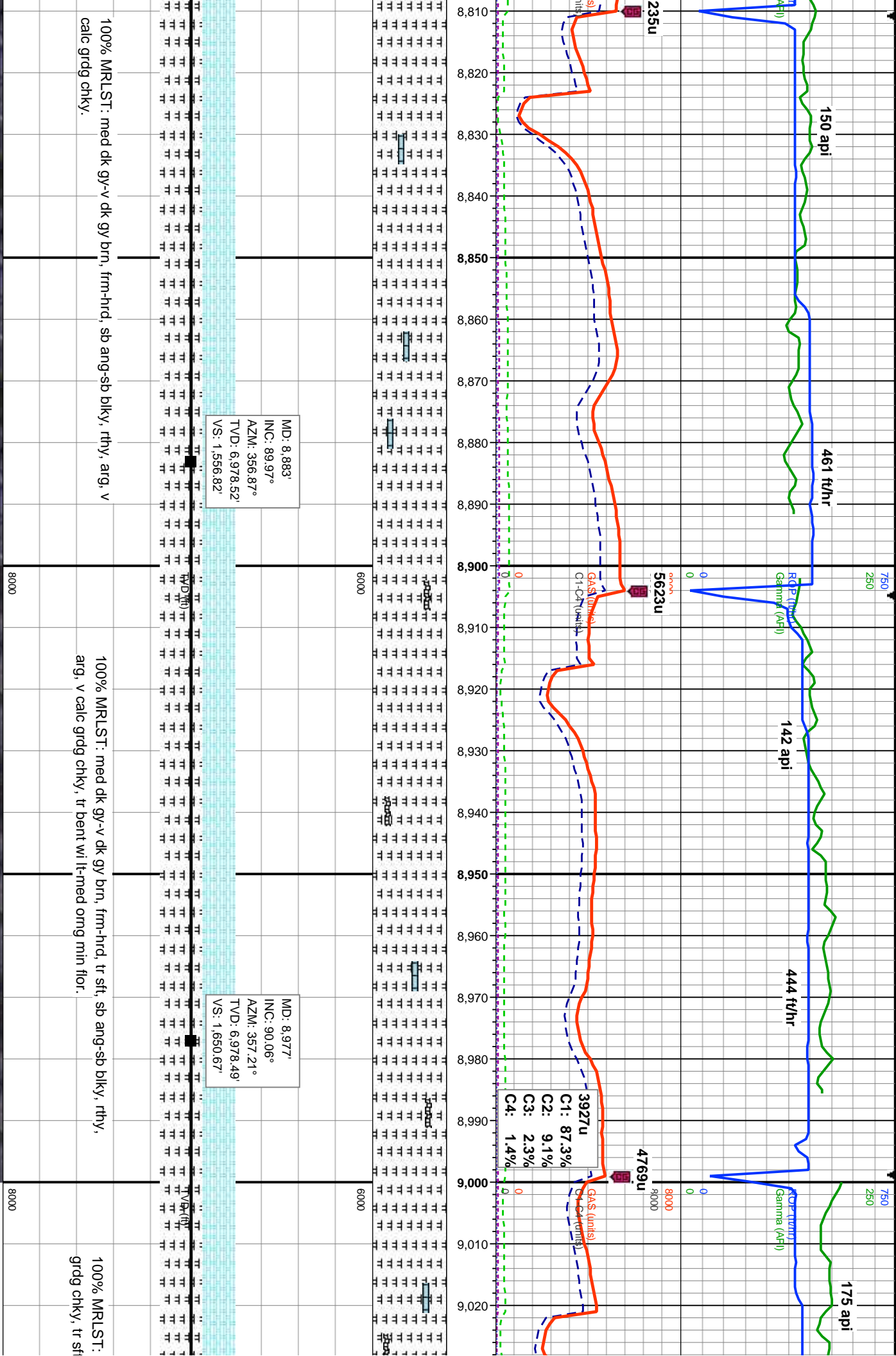
WOB: 30.1K
 RPM: 121
 SPP: 3585PSI
 SPM #: 1: 85
 SPM #: 2: 85

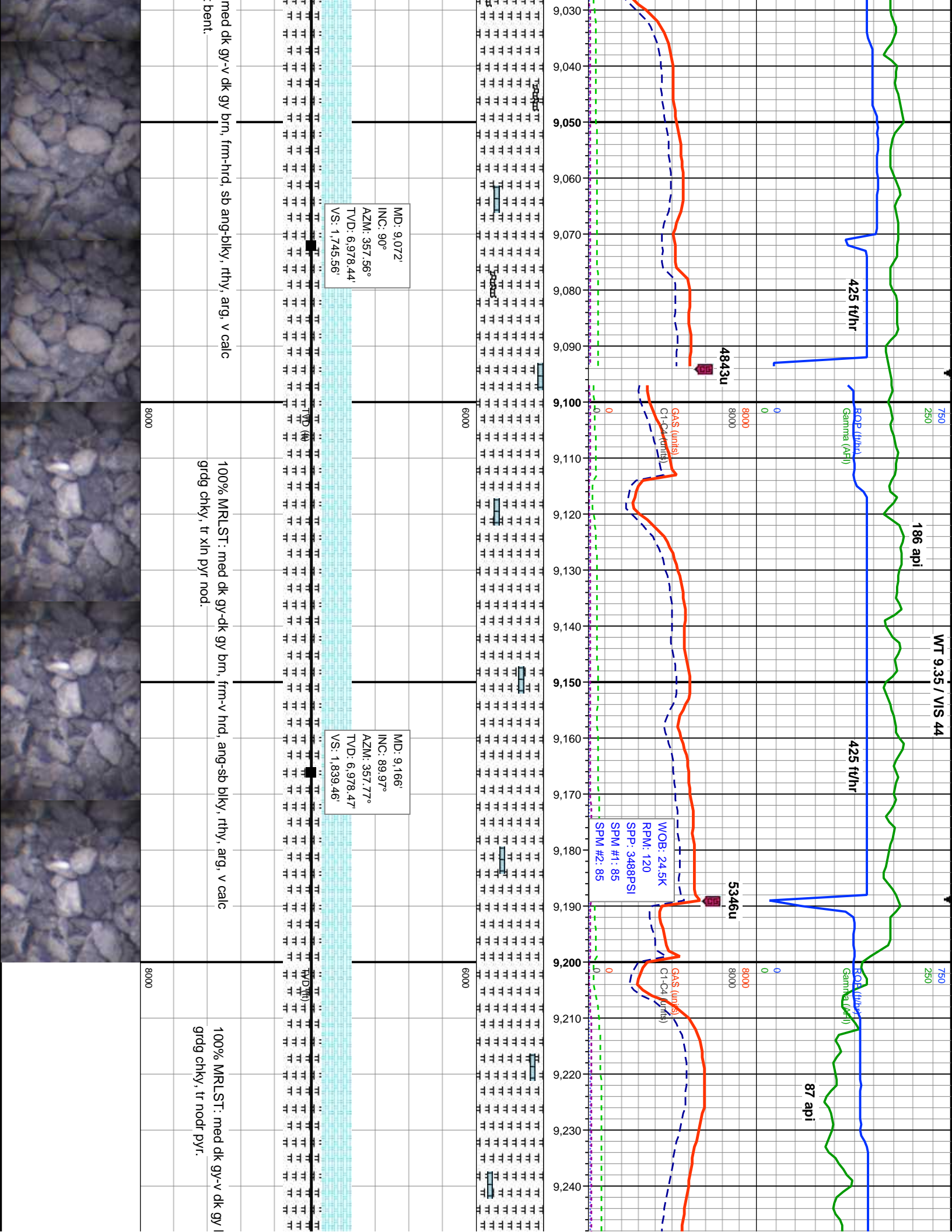
MD: 8,788'
 INC: 90.03°
 AZM: 356.93°
 TVD: 6,978.52'
 VS: 1,461.98'

100% MRLST: med dk gy-v dk gy brn, v frm-v hrd, ang-sb rnd, rthy, arg, v calc grdg dk chk, tr xln pyr.

100% MRLST: med dk gy-v dk gy brn, frm-hrd, ang-sb rnd, rthy, arg, v calc.

100% MRLST: med dk gy-v dk gy brn, frm-hrd, ang-sb rnd, rthy, arg, v calc.





WT 9.35 / VIS 44

186 api

425 ft/hr

425 ft/hr

87 api

4843u

5346u

WOB: 24.5K
RPM: 120
SPP: 3488PSI
SPM #1: 85
SPM #2: 85

MD: 9.072
INC: 90°
AZM: 357.56°
TVD: 6,978.44'
VS: 1,745.56'

MD: 9.166
INC: 89.97°
AZM: 357.77°
TVD: 6,978.47'
VS: 1,839.46'

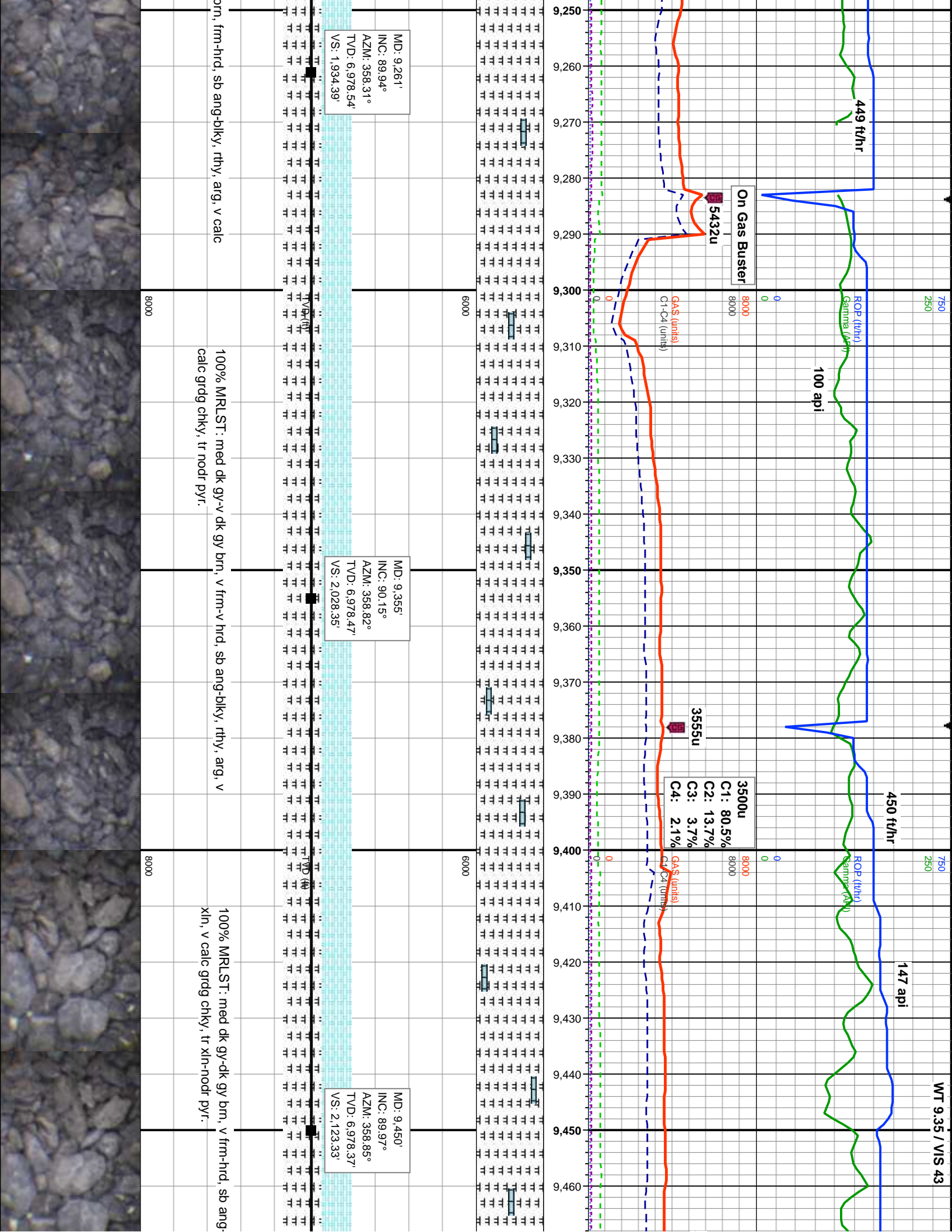
MD: 9.166
INC: 89.97°
AZM: 357.77°
TVD: 6,978.47'
VS: 1,839.46'

med dk gy-v dk gy brn, frm-hrd, sb ang-blky, rthy, arg, v calc bent.

100% MRLST: med dk gy-dk gy brn, frm-v hrd, ang-sb blky, rthy, arg, v calc grdg chky, tr xln pyr nod.

100% MRLST: med dk gy-v dk gy l grdg chky, tr nodr pyr.





WT 9.35 / VIS 43

147 api

450 ft/hr

100 api

449 ft/hr

On Gas Buster

5432u

3500u
C1: 80.5%
C2: 13.7%
C3: 3.7%
C4: 2.1%

3555u

MD: 9.261'
INC: 89.94°
AZM: 358.31°
TVD: 6.978.54'
VS: 1.934.39'

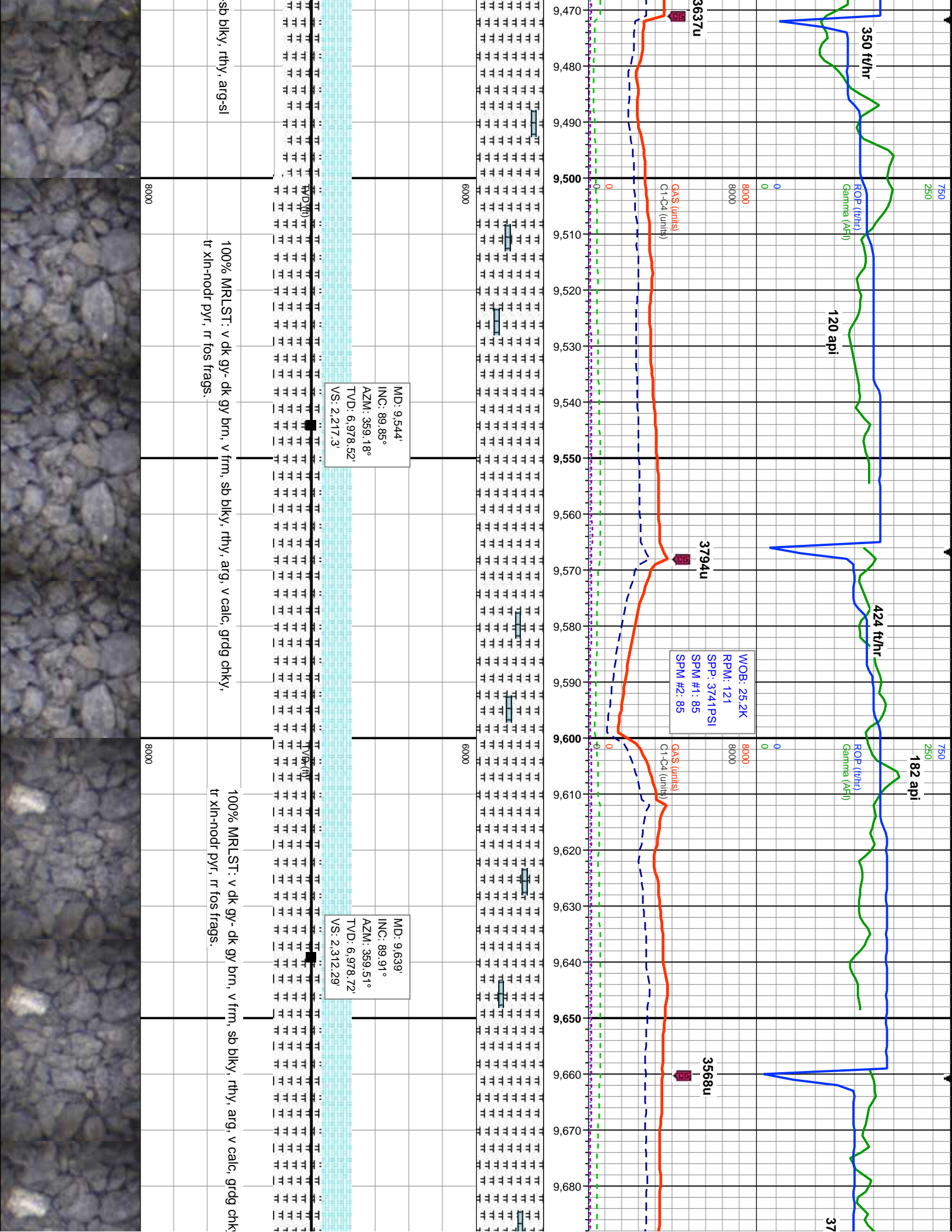
MD: 9.355'
INC: 90.15°
AZM: 358.82°
TVD: 6.978.47'
VS: 2.028.35'

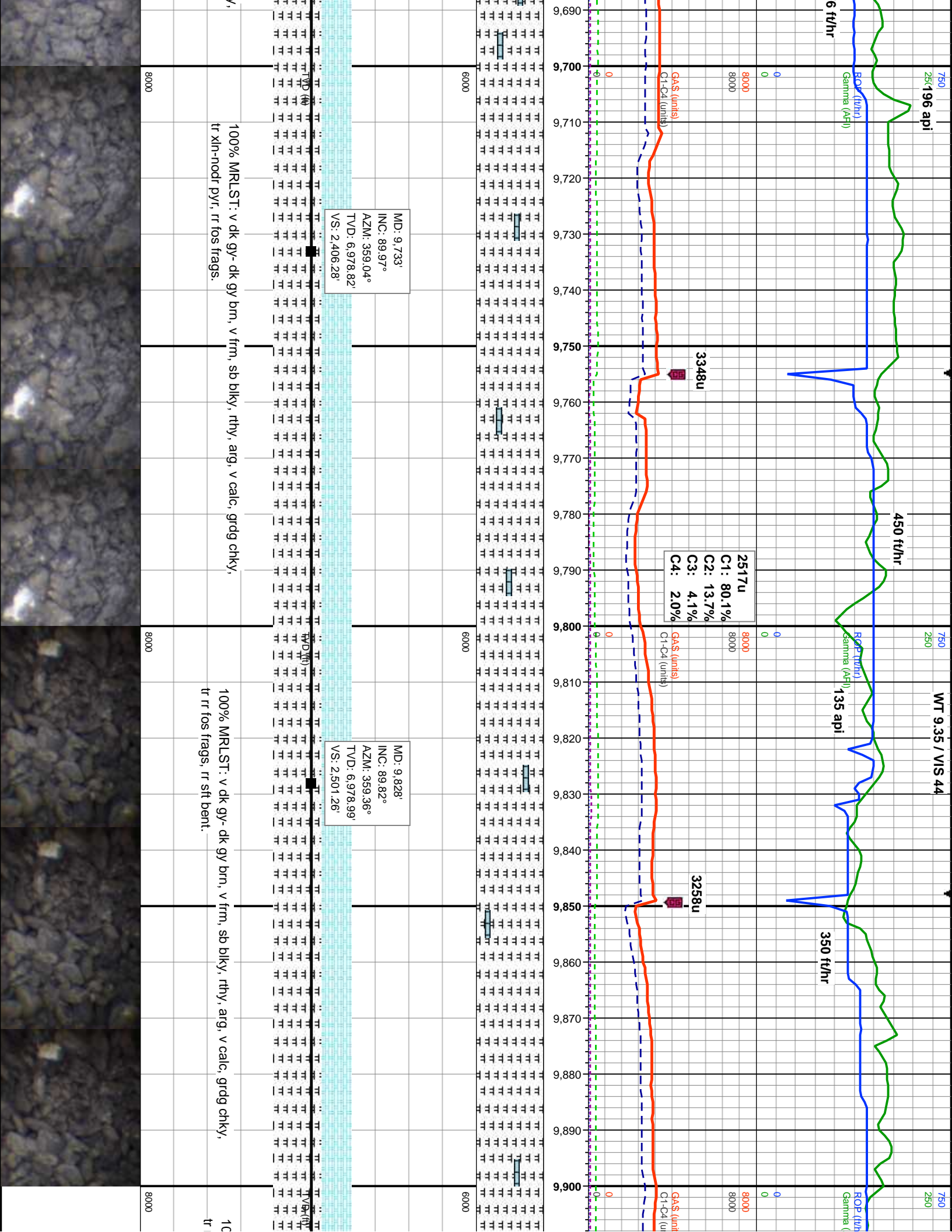
MD: 9.450'
INC: 89.97°
AZM: 358.85°
TVD: 6.978.37'
VS: 2.123.33'

100% MRLST : med dk gy-v dk gy brn, v frm-v hrd, sb ang-blky, rthy, arg, v calc grdg chky, tr nodr pyr.

100% MRLST : med dk gy-dk gy brn, v frm-hrd, sb ang-blky, rthy, arg, v calc grdg chky, tr xln-nodr pyr.

orn, frm-hrd, sb ang-blky, rthy, arg, v calc





750
250
196 api

ROP (ft/hr)
Gamma (API)

450 ft/hr

750
250
WT 9.35 / VIS 44

ROP (ft/hr)
Gamma (API)

350 ft/hr

750
250

ROP (ft/hr)
Gamma (API)

8000
8000

2517u
C1: 80.1%
C2: 13.7%
C3: 4.1%
C4: 2.0%

8000
8000

3258u

8000
8000

Gas (units)
C1-C4 (units)

Gas (units)
C1-C4 (units)

Gas (units)
C1-C4 (units)

6000

6000

6000

MD: 9.733'
INC: 89.97°
AZM: 359.04°
TVD: 6.978.82'
VS: 2.406.28'

MD: 9.828'
INC: 89.82°
AZM: 359.36°
TVD: 6.978.99'
VS: 2.501.26'

100% MRLST: v dk gy- dk gy bm, v frm, sb blkky, rthy, arg, v calc, grdg chky,
tr xln-nodr pyr, rr fos frags.

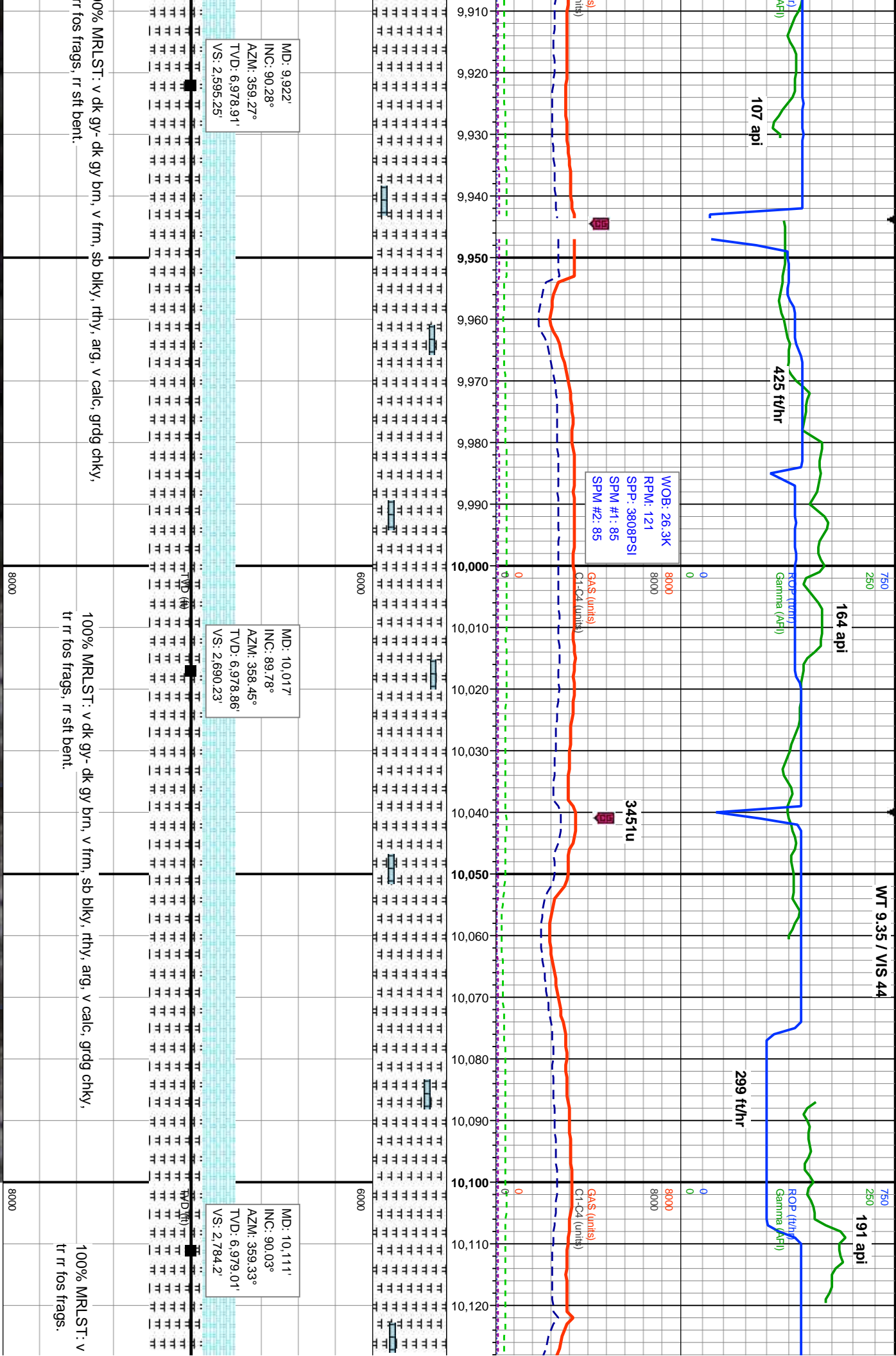
100% MRLST: v dk gy- dk gy brn, v frm, sb blkky, rthy, arg, v calc, grdg chky,
tr rr fos frags, rr sft bent.

8000

8000

8000





MD: 9.922'
 INC: 90.28°
 AZM: 359.27°
 TVD: 6.978.91'
 VS: 2.595.25'

WOB: 26.3K
 RPM: 121
 SPP: 3808PSI
 SPM #: 1: 85
 SPM #: 2: 85

MD: 10.017'
 INC: 89.78°
 AZM: 358.45°
 TVD: 6.978.86'
 VS: 2.690.23'

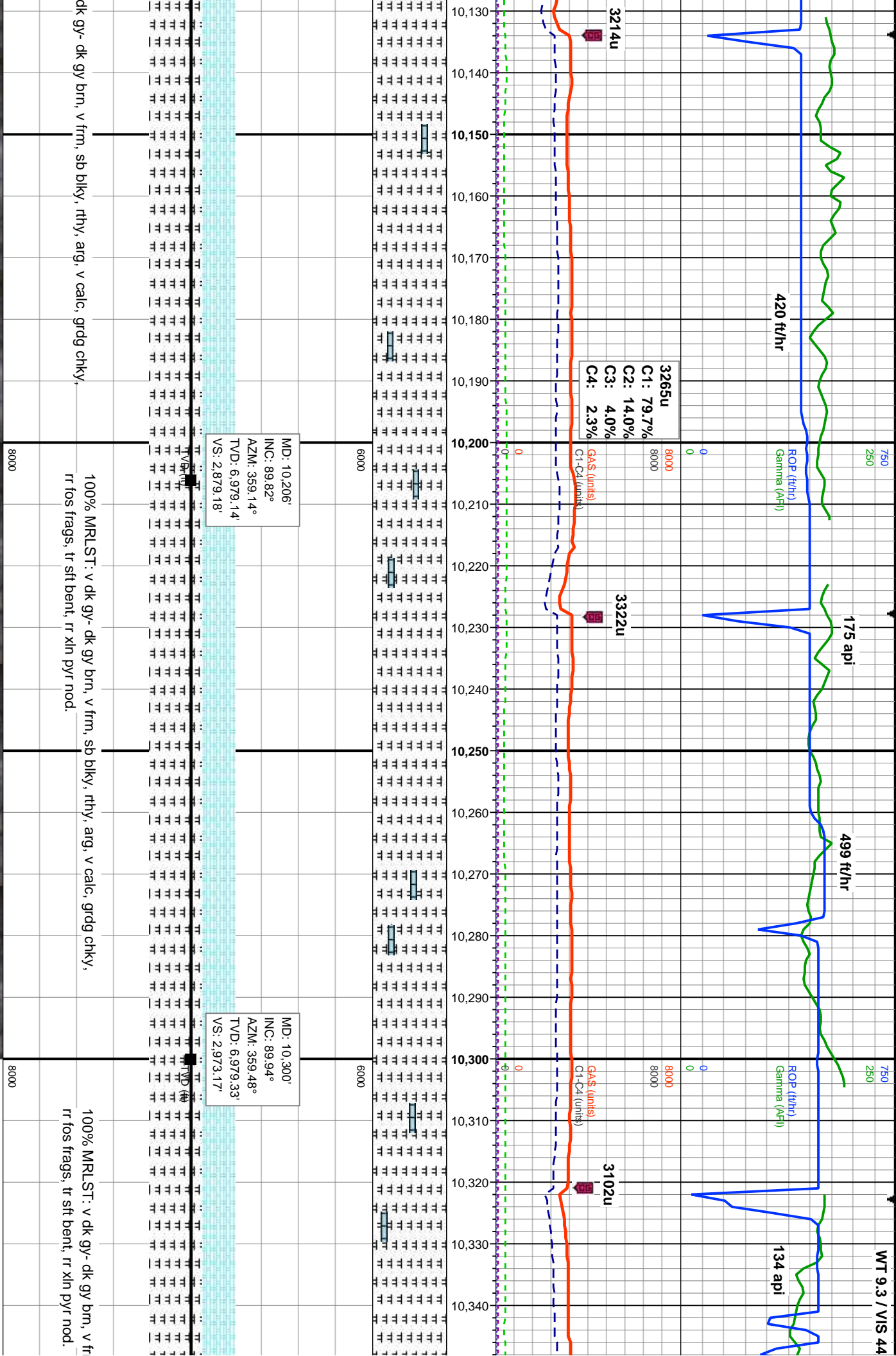
MD: 10.111'
 INC: 90.03°
 AZM: 359.33°
 TVD: 6.979.01'
 VS: 2.784.2'

100% MRLST: v dk gy- dk gy brn, v frm, sb blkv, rthy, arg, v calc, grdg chky,
 tr r r fos frags, rr sft bent.

100% MRLST: v dk gy- dk gy brn, v frm, sb blkv, rthy, arg, v calc, grdg chky,
 tr r r fos frags, rr sft bent.

100% MRLST: v
 tr r r fos frags.





3265u
 C1: 79.7%
 C2: 14.0%
 C3: 4.0%
 C4: 2.3%

MD: 10,206'
 INC: 89.82°
 AZM: 359.14°
 TVD: 6,979.14'
 VS: 2,879.18'

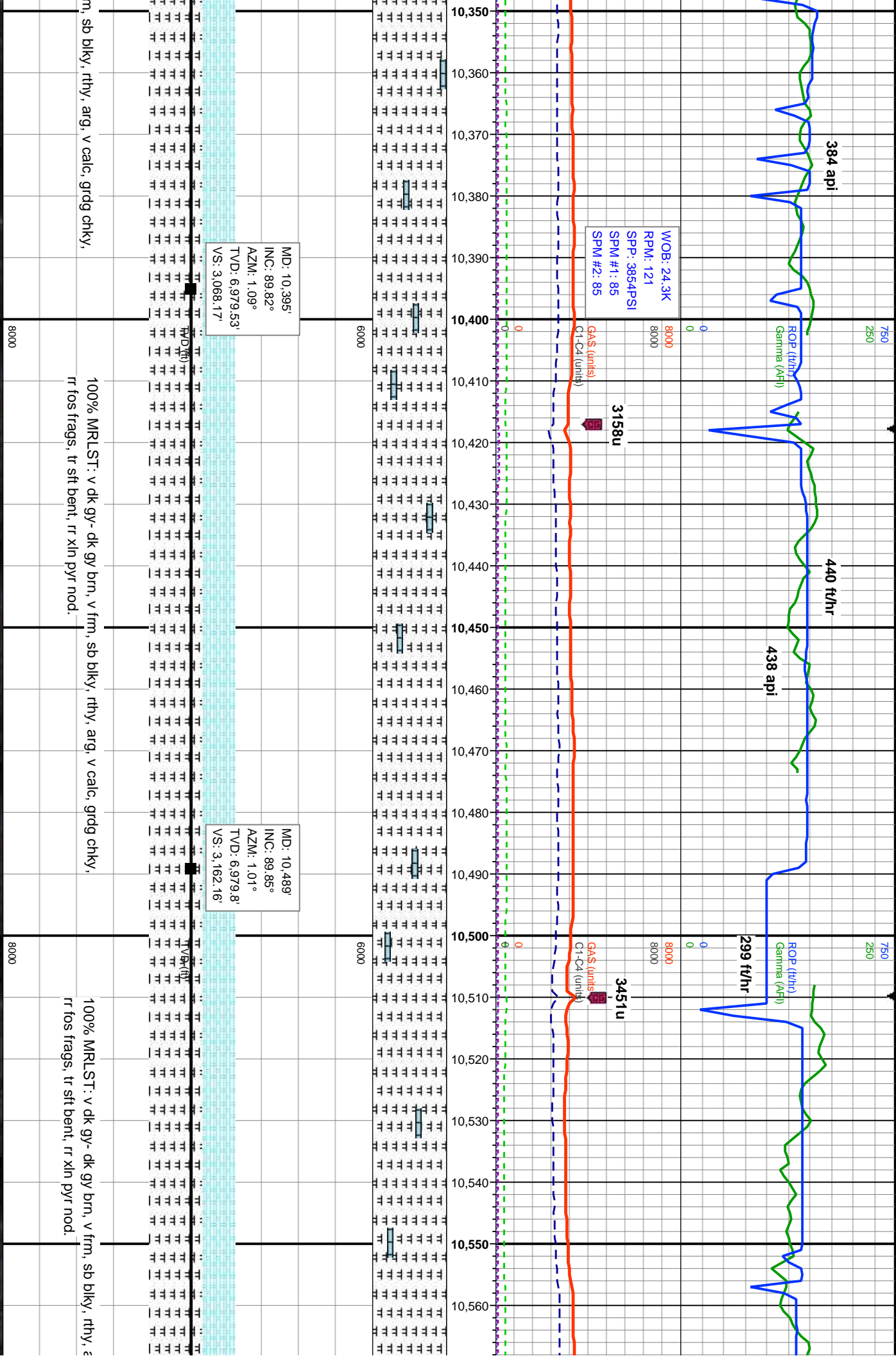
MD: 10,300'
 INC: 89.94°
 AZM: 359.48°
 TVD: 6,979.33'
 VS: 2,973.17'

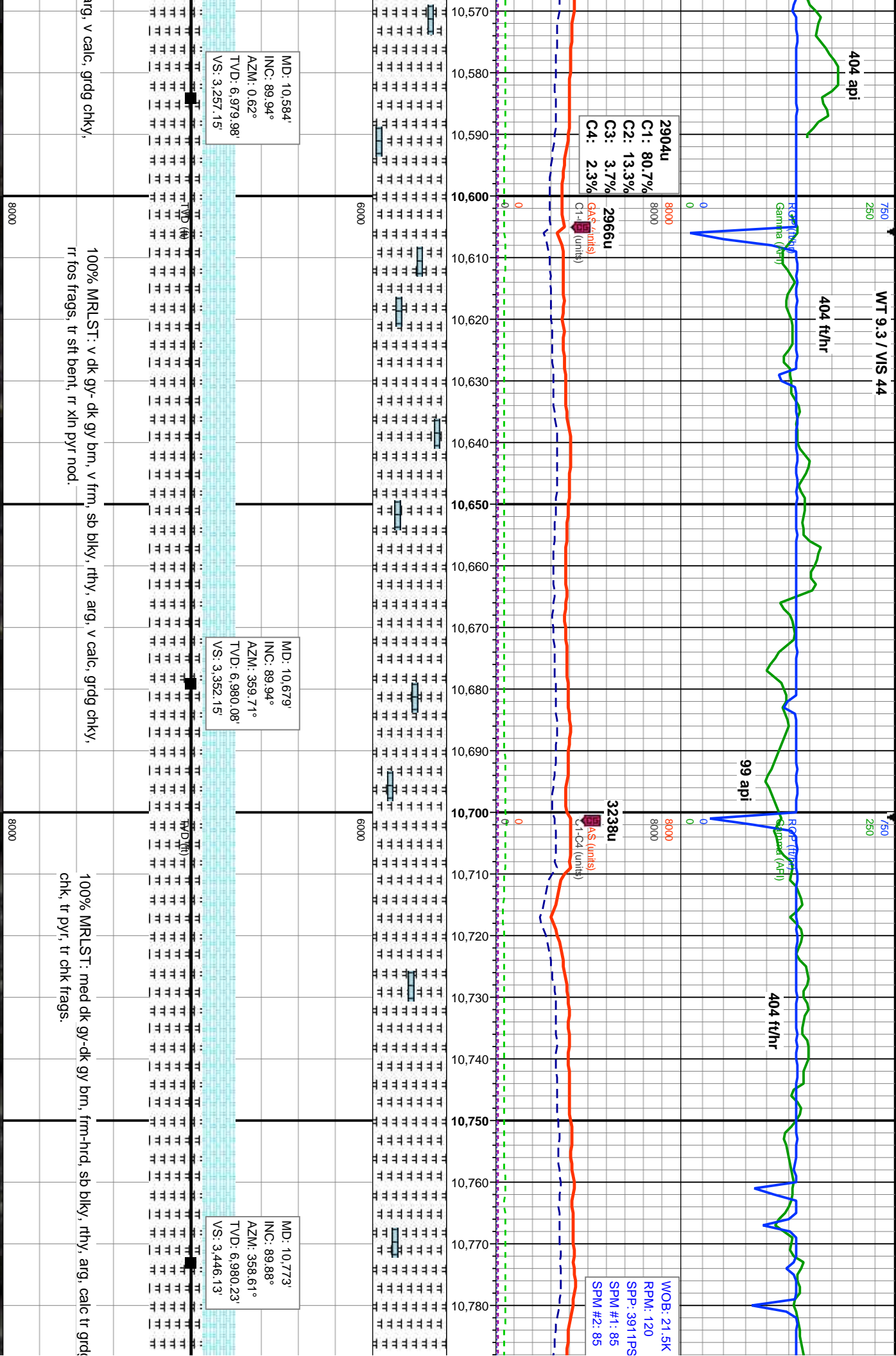
100% MRLST: v dk gy- dk gy brn, v frm, sb blk, rthy, arg, v calc, grdg chky,
 rr fos frags, tr sft bent, rr xln pyr nod.

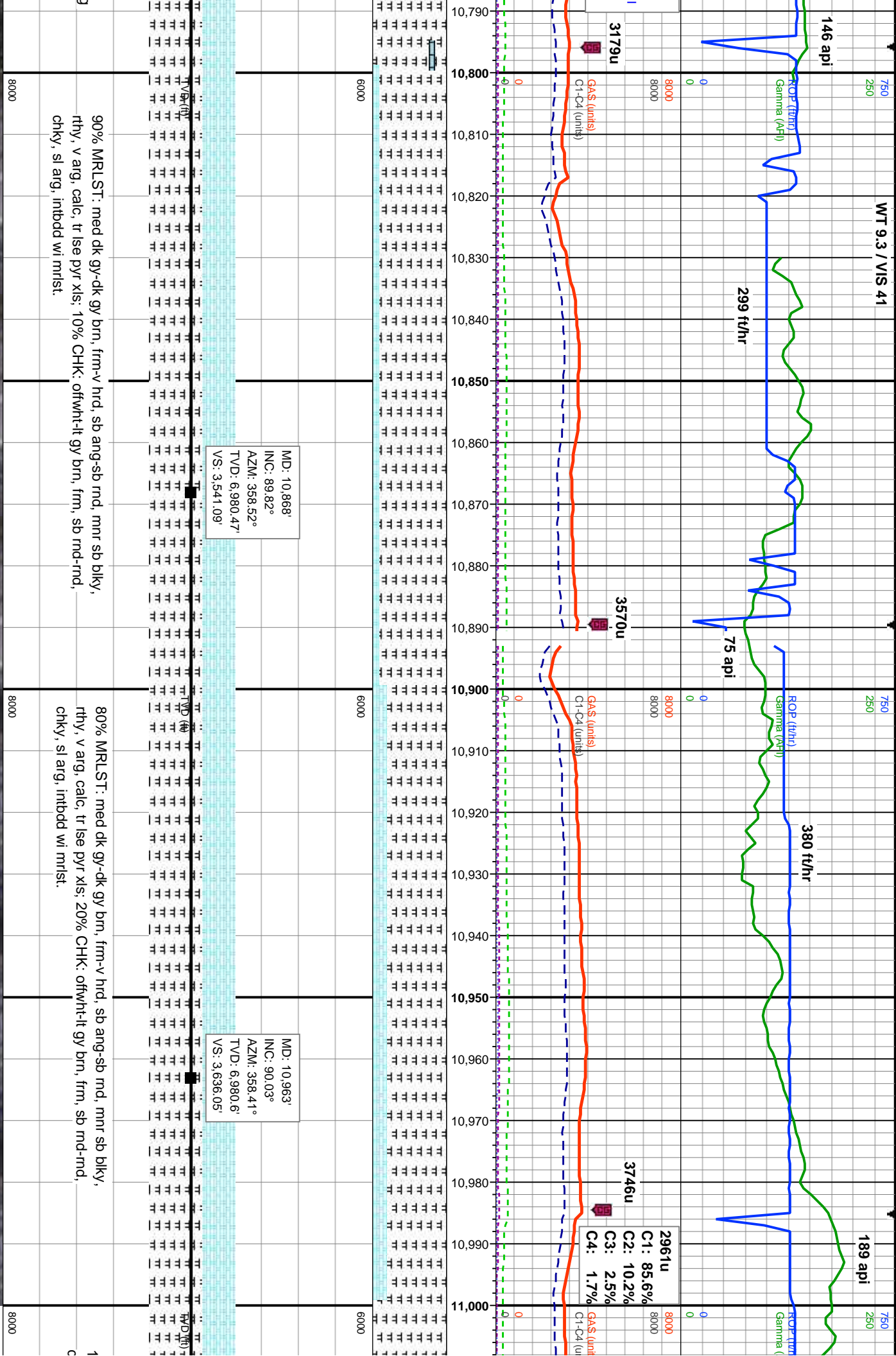
100% MRLST: v dk gy- dk gy brn, v frm,
 rr fos frags, tr sft bent, rr xln pyr nod.

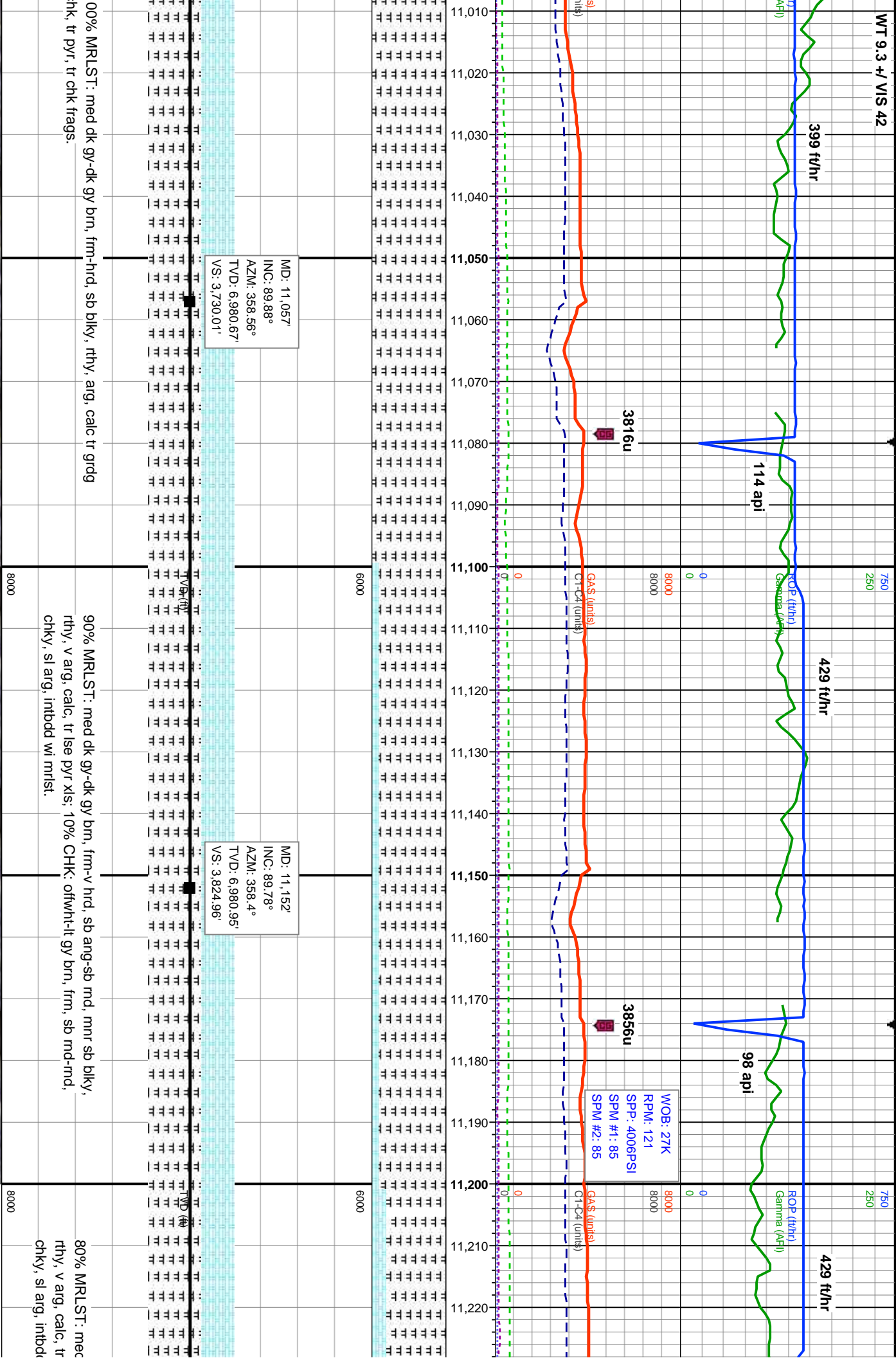
dk gy- dk gy brn, v frm, sb blk, rthy, arg, v calc, grdg chky,
 8000

8000









399 ft/hr

429 ft/hr

429 ft/hr

114 api

98 api

3816u

3856u

WOB: 27K
 RPPM: 121
 SPP: 4006PSI
 SPM #: 85
 SPM #: 85

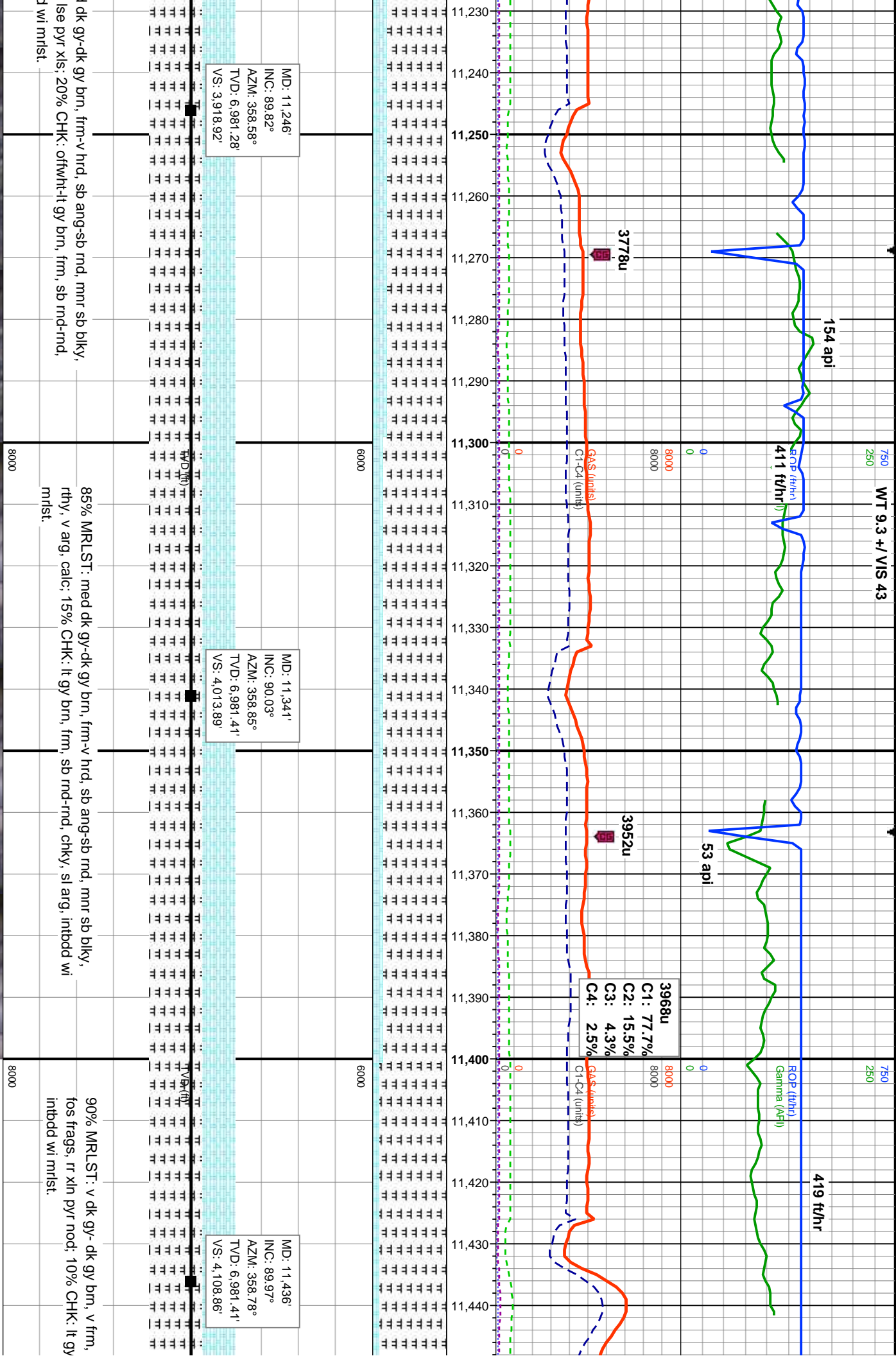
MD: 11,057'
 INC: 89.88°
 AZM: 358.56°
 TVD: 6,980.67'
 VS: 3,730.01'

MD: 11,152'
 INC: 89.78°
 AZM: 358.4°
 TVD: 6,980.95'
 VS: 3,824.96'

00% MRLST: med dk gy-dk gy brn, frm-hrd, sb blk, rthy, arg, calc tr grdg
 chk, tr pyr, tr chk frags.

90% MRLST: med dk gy-dk gy brn, frm-v hrd, sb ang-sb ind, mnt sb blk, rthy, v arg, calc, tr lse pyr xls; 10% CHK: offwh-tlt gy brn, frm, sb md-nd, chky, sl arg, intbdd wi mrlst.

80% MRLST: mec rthy, v arg, calc, tr chky, sl arg, intbdd

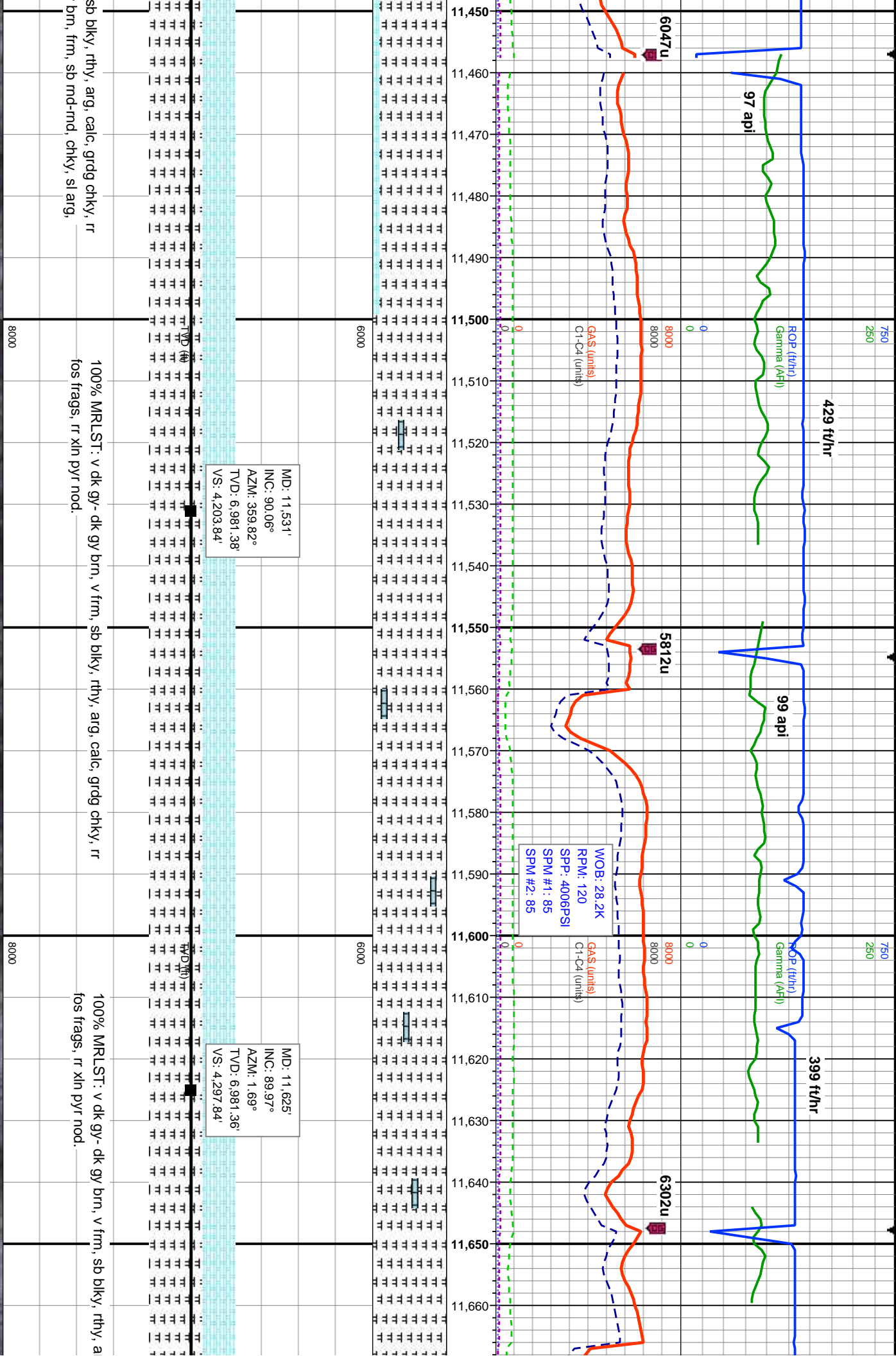


MD: 11,246'
 INC: 89.82°
 AZM: 358.58°
 TVD: 6,981.28'
 VS: 3,918.92'

MD: 11,341'
 INC: 90.03°
 AZM: 358.85°
 TVD: 6,981.41'
 VS: 4,013.89'

MD: 11,436'
 INC: 89.97°
 AZM: 358.78°
 TVD: 6,981.41'
 VS: 4,108.86'

3968u
 C1: 77.7%
 C2: 15.5%
 C3: 4.3%
 C4: 2.5%



WT 9.4/ VIS 42

750
250

126 api

ROP (ft/hr)
Gamma (API)

250 ft/hr

5244u

150 api

ROP (ft/hr)
Gamma (API)

395 ft/hr

5951u

95 ap

GAS (units)
C1-C4 (units)

2517u
C1: 80.1%
C2: 13.7%
C3: 4.1%
C4: 2.0%

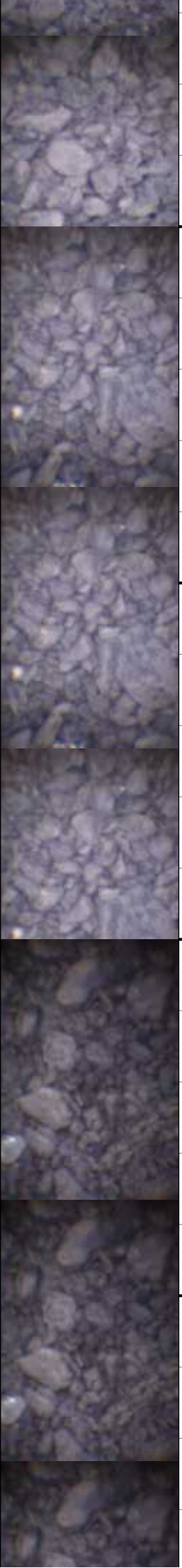
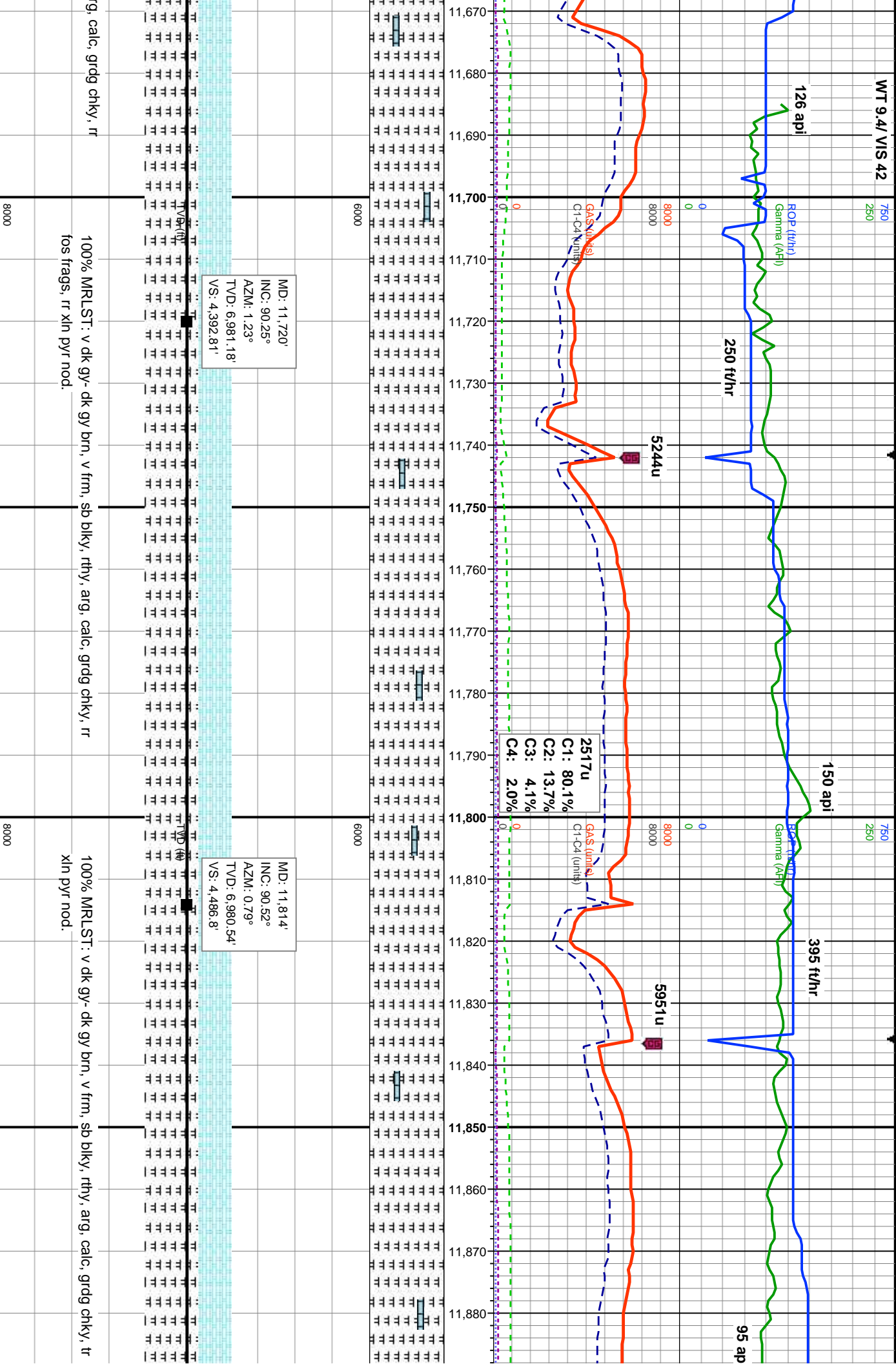
GAS (units)
C1-C4 (units)

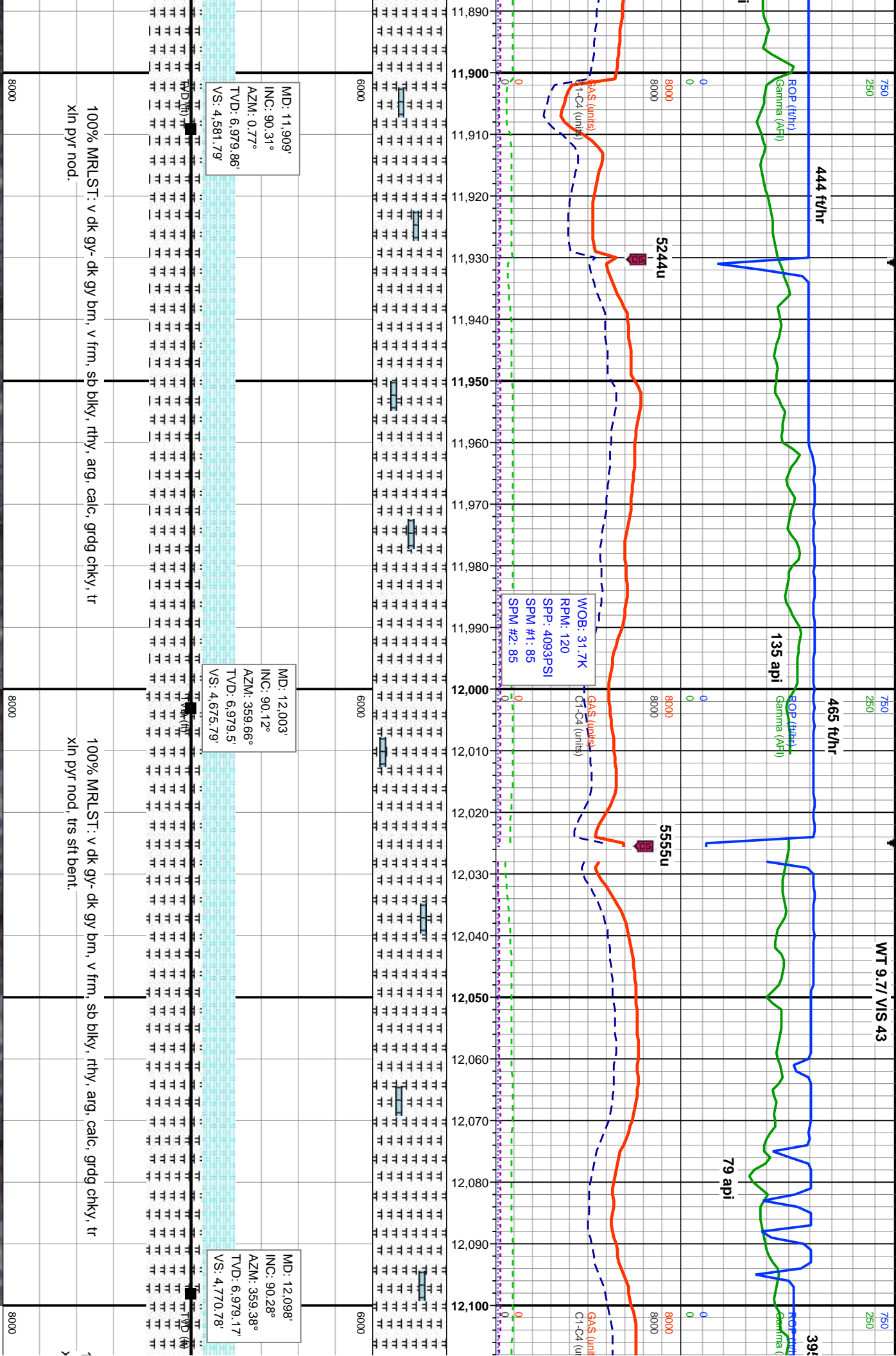
MD: 11,720'
INC: 90.25°
AZM: 1.23°
TVD: 6,981.18'
VS: 4,392.81'

MD: 11,814'
INC: 90.52°
AZM: 0.79°
TVD: 6,980.54'
VS: 4,486.8'

100% MRLST: v dk gy- dk gy brn, v frm, sb blk, rthy, arg, calc, grdg chky, rr
fos frags, rr xln pyr nod.

100% MRLST: v dk gy- dk gy brn, v frm, sb blk, rthy, arg, calc, grdg chky, tr
xln pyr nod.

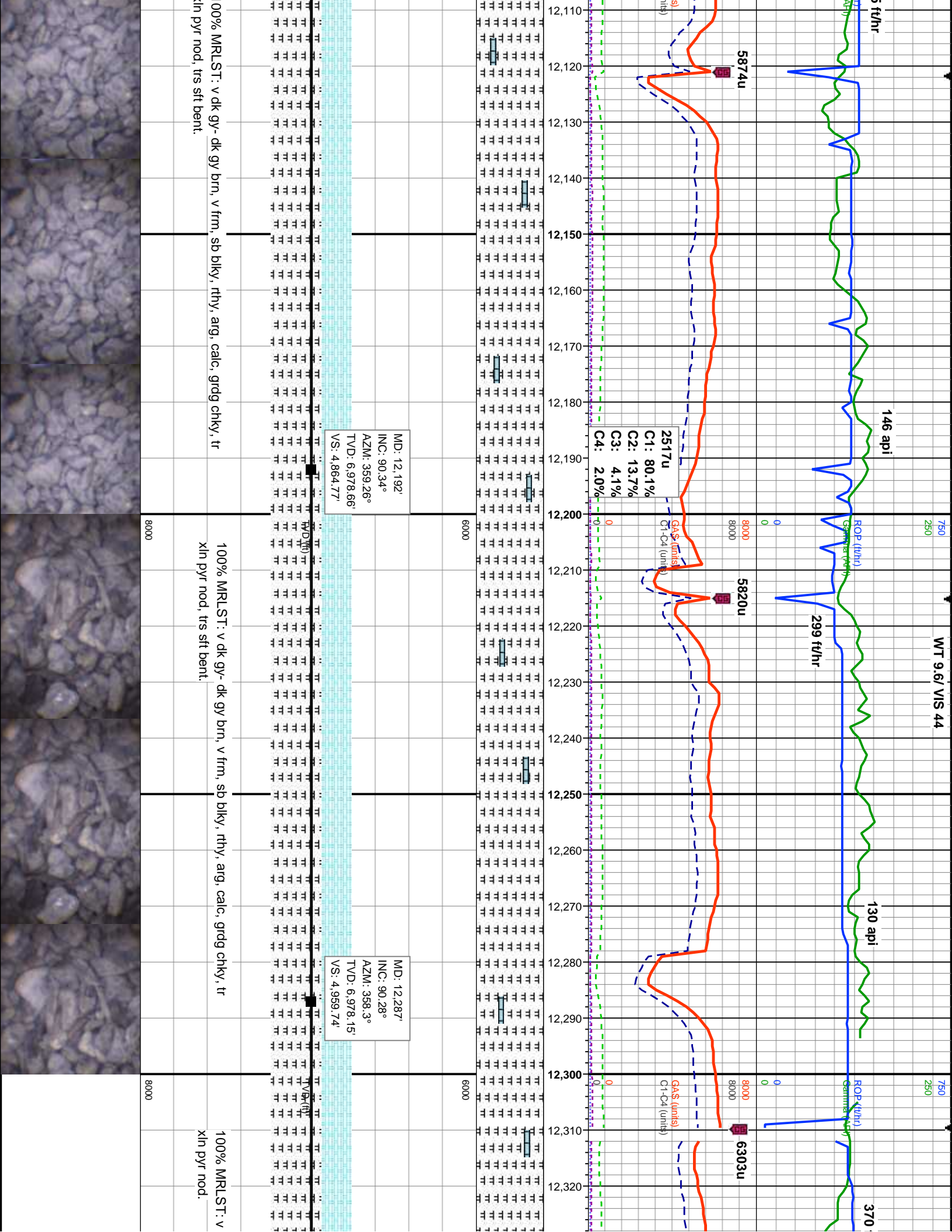


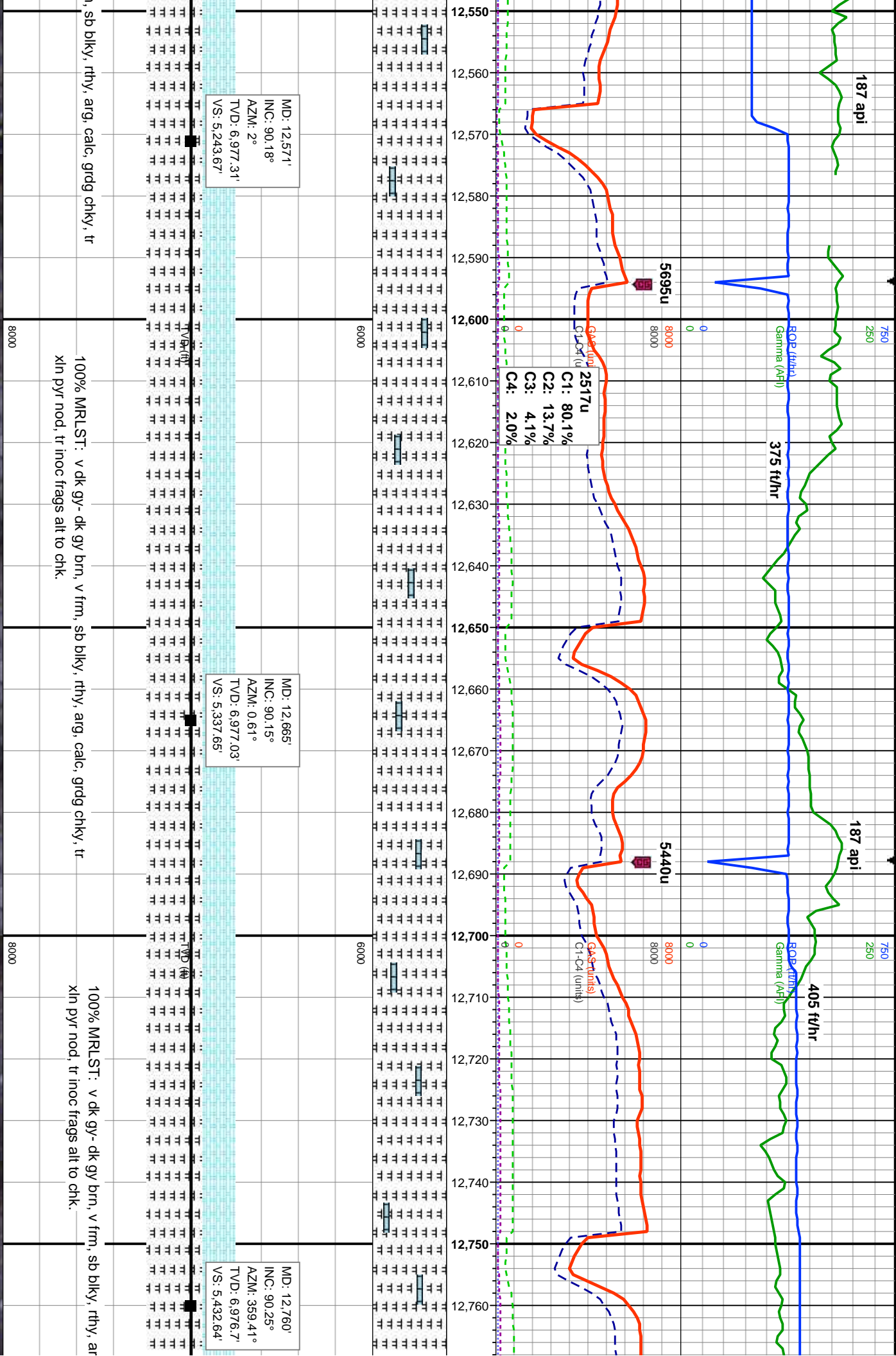


100% MRLST: v dk gy- dk gy bm, v frm, sb blk, rhy, arg, calc, grdg, chk, tr
xln pyr nod.

100% MRLST: v dk gy- dk gy bm, v frm, sb blk, rhy, arg, calc, grdg, chk, tr
xln pyr nod, trs sft bent.

>





187 api

187 api

405 ft/hr

375 ft/hr

5695u

5440u

Gas Sat (units)
G1-C4 (units)
C1: 80.1%
C2: 13.7%
C3: 4.1%
C4: 2.0%

Gas Sat (units)
G1-C4 (units)

MD: 12,571'
INC: 90.18°
AZM: 2°
TVD: 6,977.31'
VS: 5,243.67'

MD: 12,665'
INC: 90.15°
AZM: 0.61°
TVD: 6,977.03'
VS: 5,337.65'

MD: 12,760'
INC: 90.25°
AZM: 359.41°
TVD: 6,976.7'
VS: 5,432.64'

100% MRLST: v dk gy- dk gy brn, v frm, sb blk, rthy, arg, calc, grdg chky, tr xln pyr nod, tr inoc frags alt to chk.

100% MRLST: v dk gy- dk gy brn, v frm, sb blk, rthy, arg, calc, grdg chky, tr xln pyr nod, tr inoc frags alt to chk.

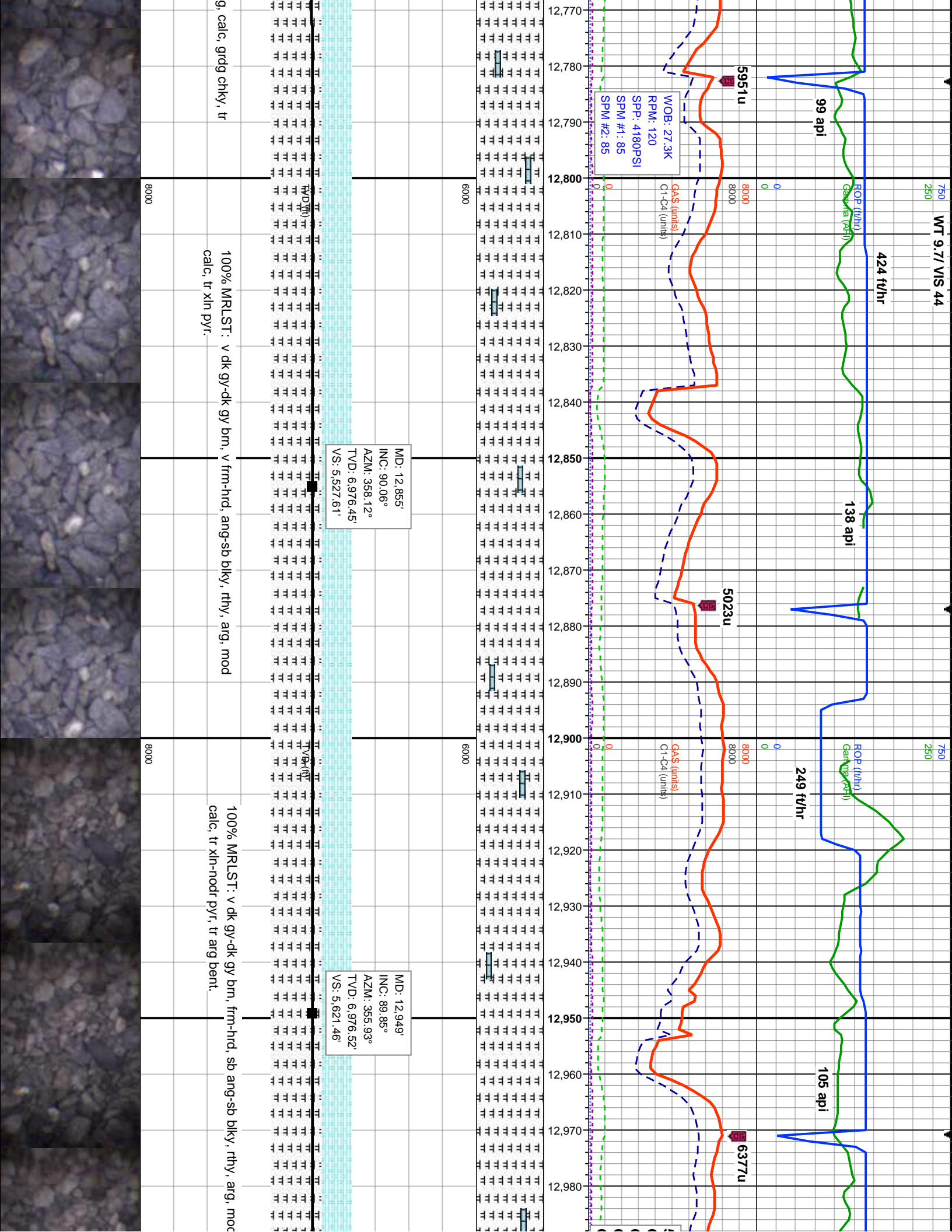
h, sb blk, rthy, arg, calc, grdg chky, tr

8000

8000

6000

6000



WT 9.71 VIS 44

WT 9.71 VIS 44

424 ft/hr

99 api

138 api

249 ft/hr

105 api

5951u

5023u

6377u

WOB: 27.3K
RPM: 120
SPP: 4180PSI
SPM #1: 85
SPM #2: 85

ROP (ft/hr)
Gas (units)
C1-C4 (units)

ROP (ft/hr)
Gas (units)
C1-C4 (units)

MD: 12,855'
INC: 90.06°
AZM: 358.12°
TVD: 6,976.45'
VS: 5,527.61'

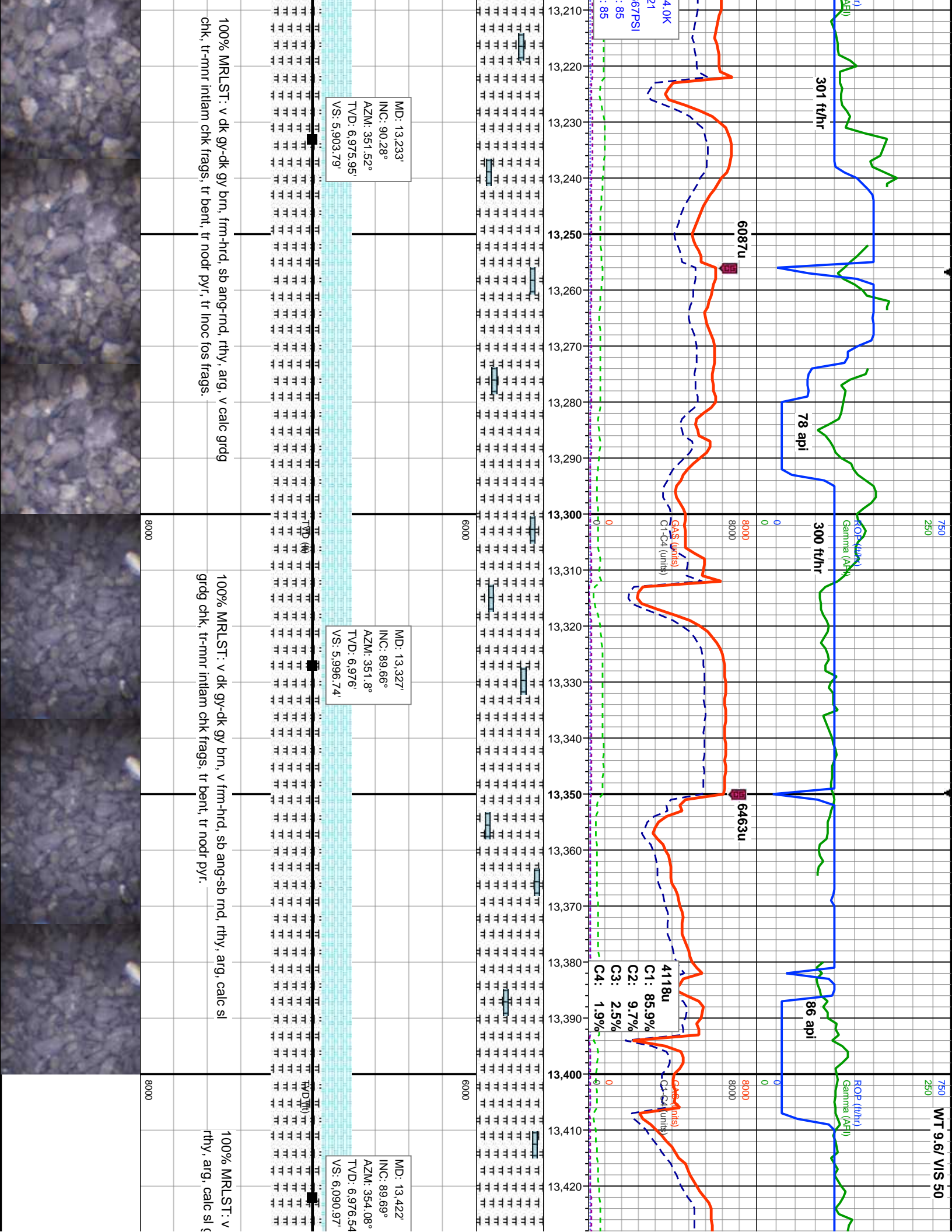
MD: 12,949'
INC: 89.85°
AZM: 355.93°
TVD: 6,976.52'
VS: 5,621.46'

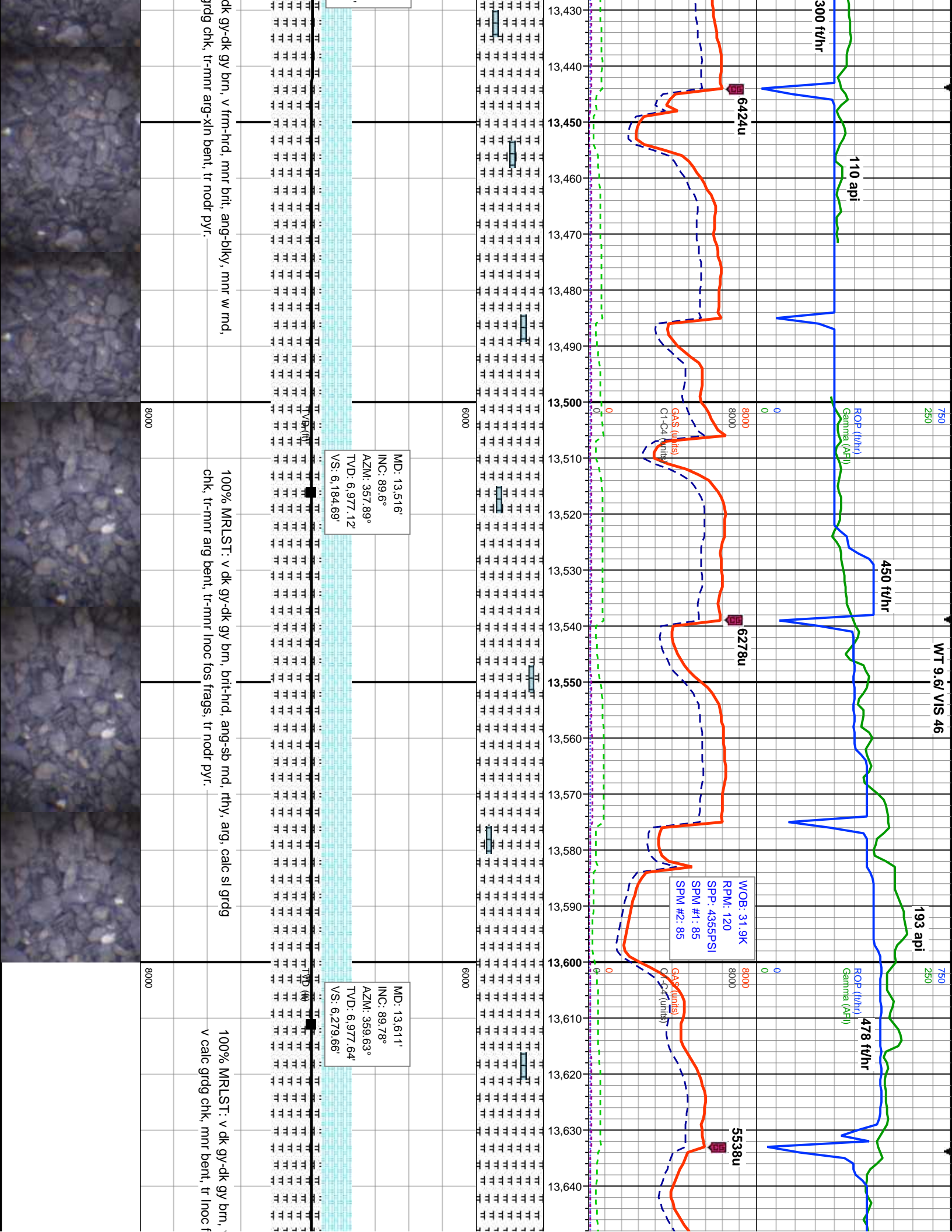
100% MRLST: v dk gy-dk gy brn, frm-hrd, ang-sb blk, rthy, arg, mod calc, tr xin pyr.

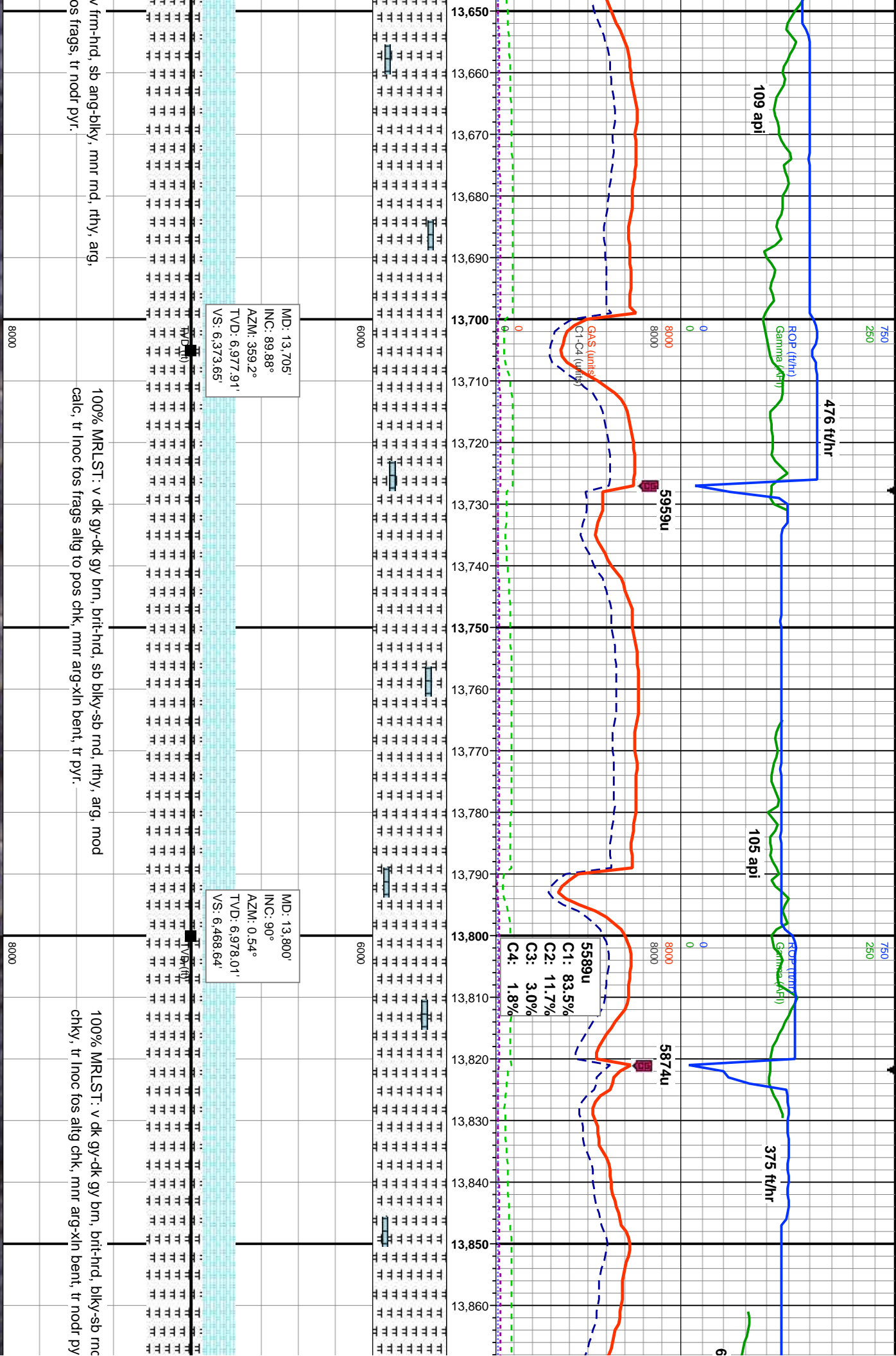
100% MRLST: v dk gy-dk gy brn, frm-hrd, sb ang-sb blk, rthy, arg, mod calc, tr xin-nodr pyr, tr arg bent.

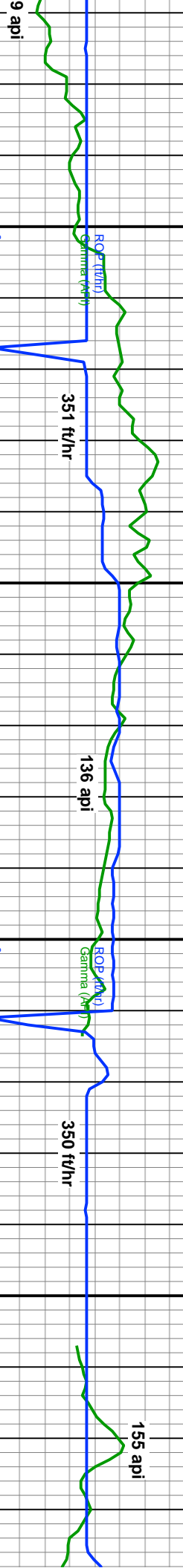
g, calc, grdg chky, tr
8000
8000
8000











ROP (ft/hr)
Gamma (API)

ROP (ft/hr)
Gamma (API)

GAS (units)
C1-C4 (units)

GAS (units)
C1-C4 (units)

WOB: 34.6K
RPM: 121
SPP: 4414PSI
SPM #: 85
SPM #2: 85

6000

6000

MD: 13,894'
INC: 90°
AZM: 1°
TVD: 6,978.01'
VS: 6,562.64'

MD: 13,989'
INC: 90.58°
AZM: 2.34°
TVD: 6,977.53'
VS: 6,657.6'

MD: 14,083'
INC: 89.85°
AZM: 3.26°
TVD: 6,977.1'
VS: 6,751.51'

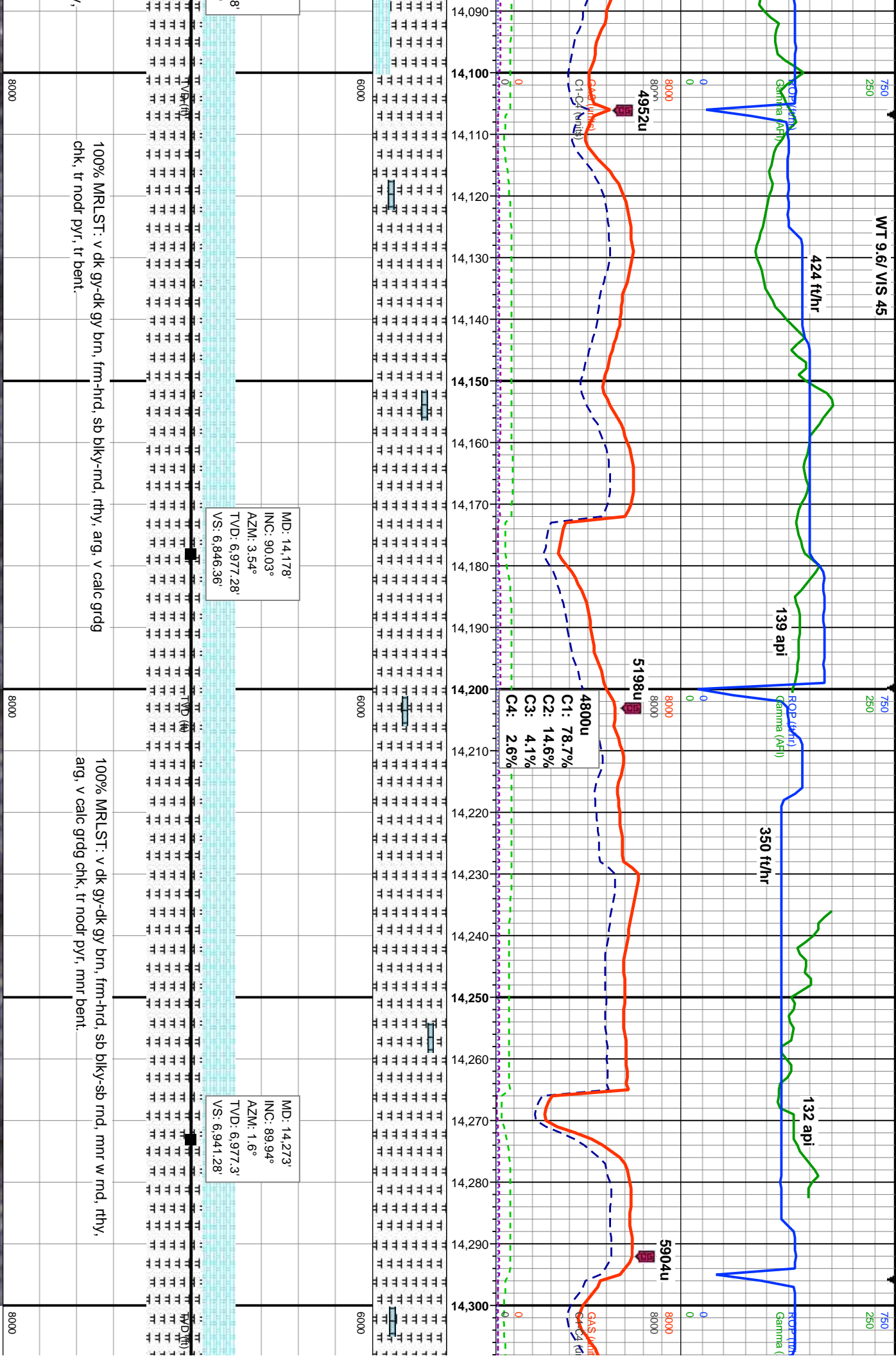
100% MRLST: v dk gy-dk gy brn, brit-hrd, blk-ysb blk-ys, rthy, arg, v sl silty, v calc grdg chk, tr inoc fos, tr nodr-xln pyr, tr bent.

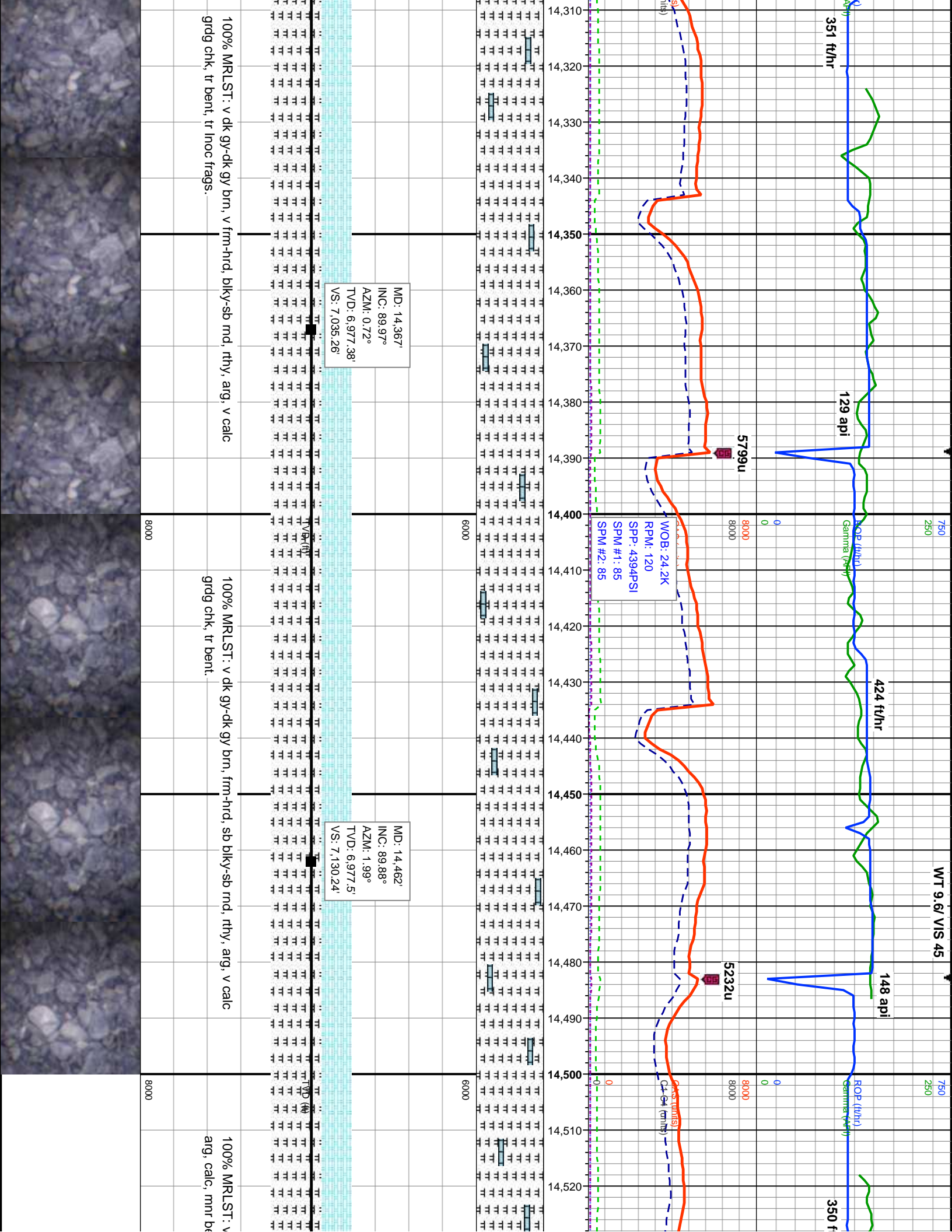
8000

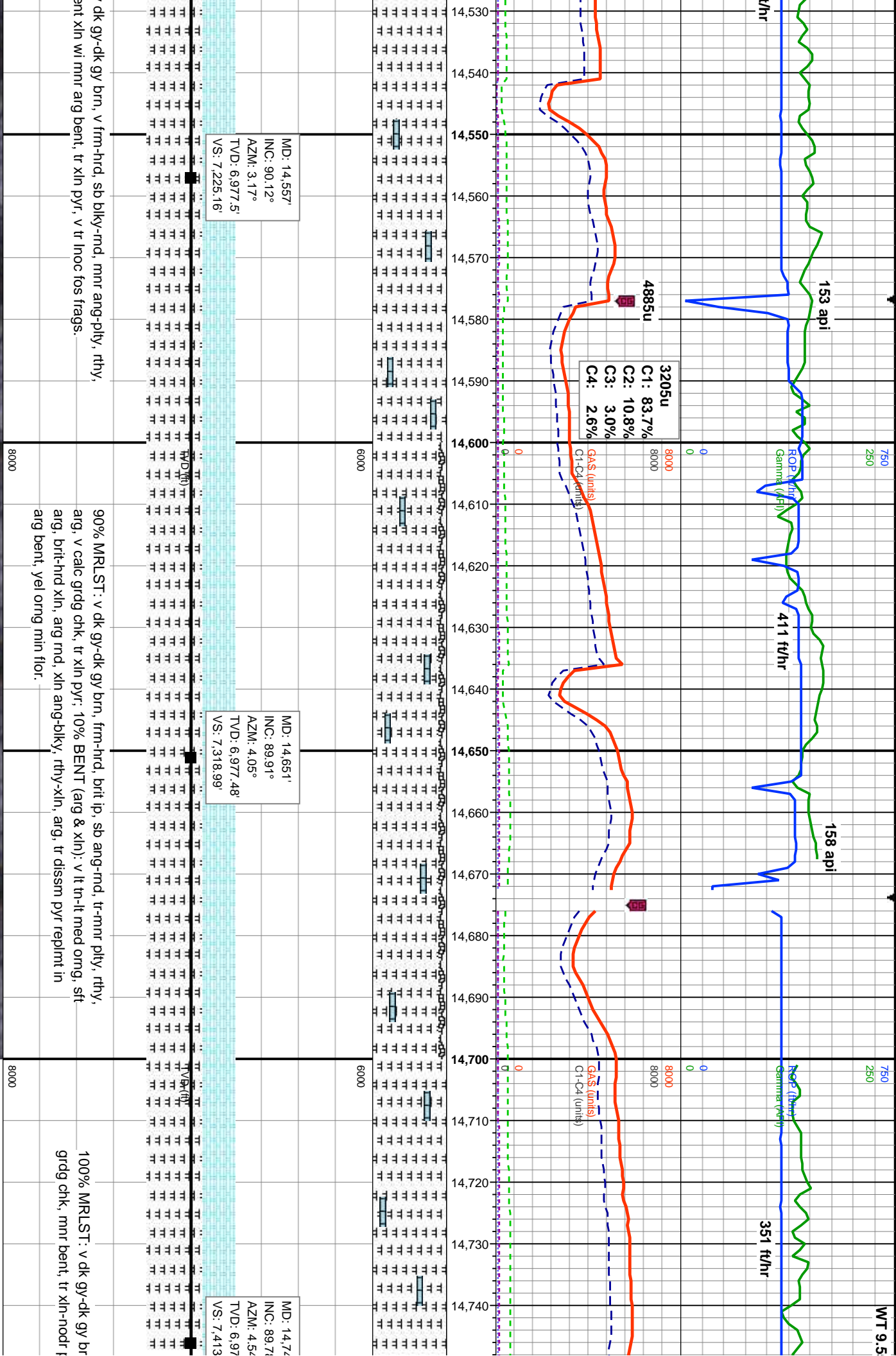
8000

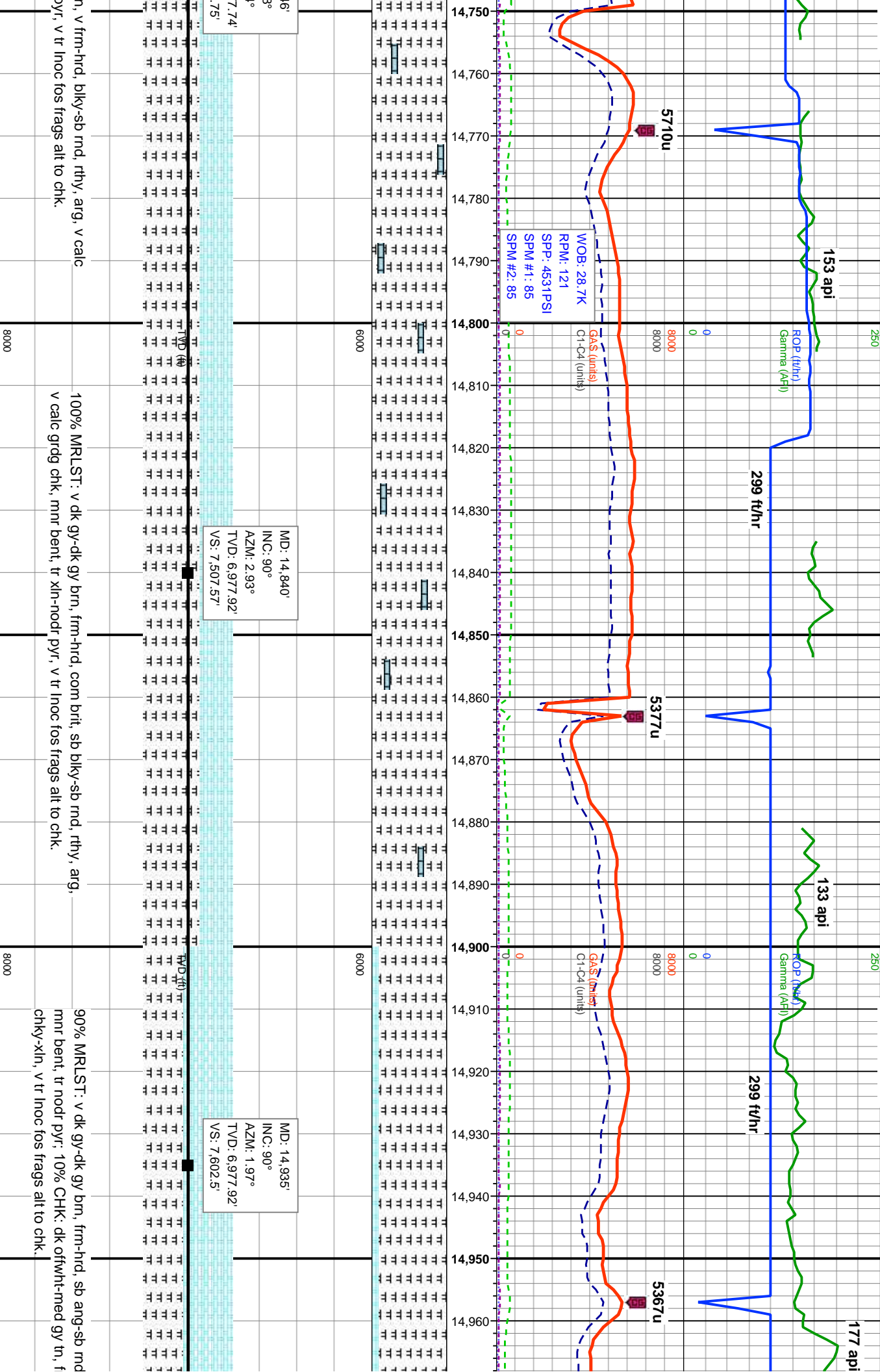
75% MRLST: v dk gy-dk gy brn, frm-hrd, blk-ysb rnd, rthy, arg, v sl silty, v calc, tr inoc fos, tr nodr pyr, tr bent; 25% CHK: dk tn-v dk brn gy, hrd, blk-ys pos arg, xln.











153 api

299 ft/hr

133 api

299 ft/hr

5710u

5377u

5367u

WOB: 28.7K
 RPM: 121
 SPP: 4531PSI
 SPM #1: 85
 SPM #2: 85

GCS (units)
 C1-C4 (units)

GCS (units)
 C1-C4 (units)

6'
 3°
 7.74
 7.75

MD: 14.840'
 INC: 90°
 AZM: 2.93°
 TVD: 6.977.92
 VS: 7.507.57'

MD: 14.935'
 INC: 90°
 AZM: 1.97°
 TVD: 6.977.92
 VS: 7.602.5'

n, v frm-hrd, blk-ly-sb rnd, rthy, arg, v calc
 yr, v tr inoc fos frags alt to chk.

100% MRLST: v dk gy-dk gy brn, frm-hrd, com brit, sb blk-ly-sb rnd, rthy, arg.
 v calc grdg chk, mnr bent, tr xln-nodr pyr, v tr inoc fos frags alt to chk.

90% MRLST: v dk gy-dk gy brn, frm-hrd, sb ang-sb rnd
 mnr bent, tr nodr pyr, 10% CHK: dk ofwht-med gy tn, f
 chky-xln, v tr inoc fos frags alt to chk.

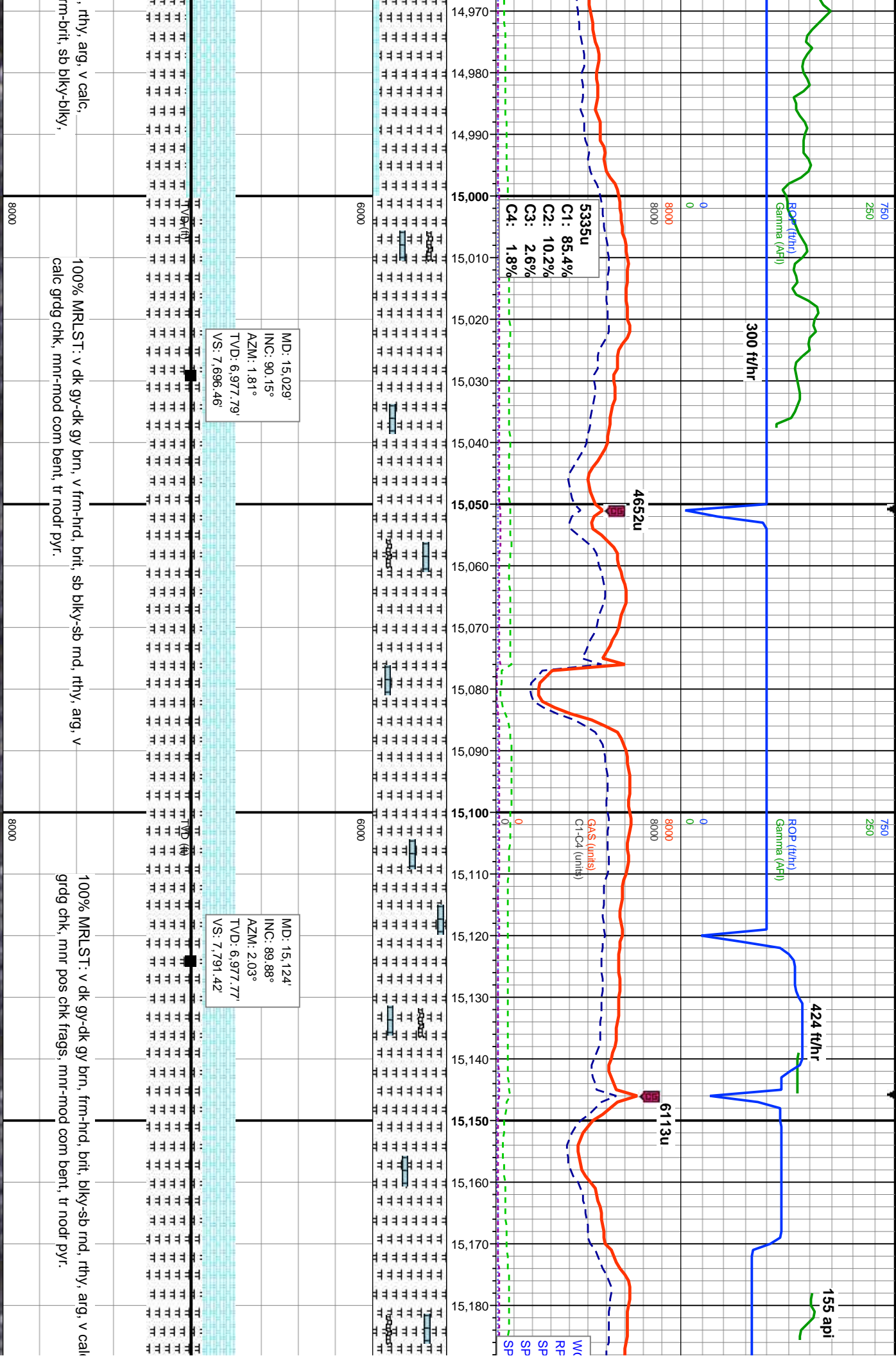
8000

8000

6000

6000





750
250
8000
8000
8000

ROP (ft/hr)
Gamma (API)
300 ft/hr

5335u
C1: 85.4%
C2: 10.2%
C3: 2.6%
C4: 1.8%

4652u

ROP (ft/hr)
Gamma (API)

424 ft/hr

6131u

155 api

WV
RF
SP
SP
SP

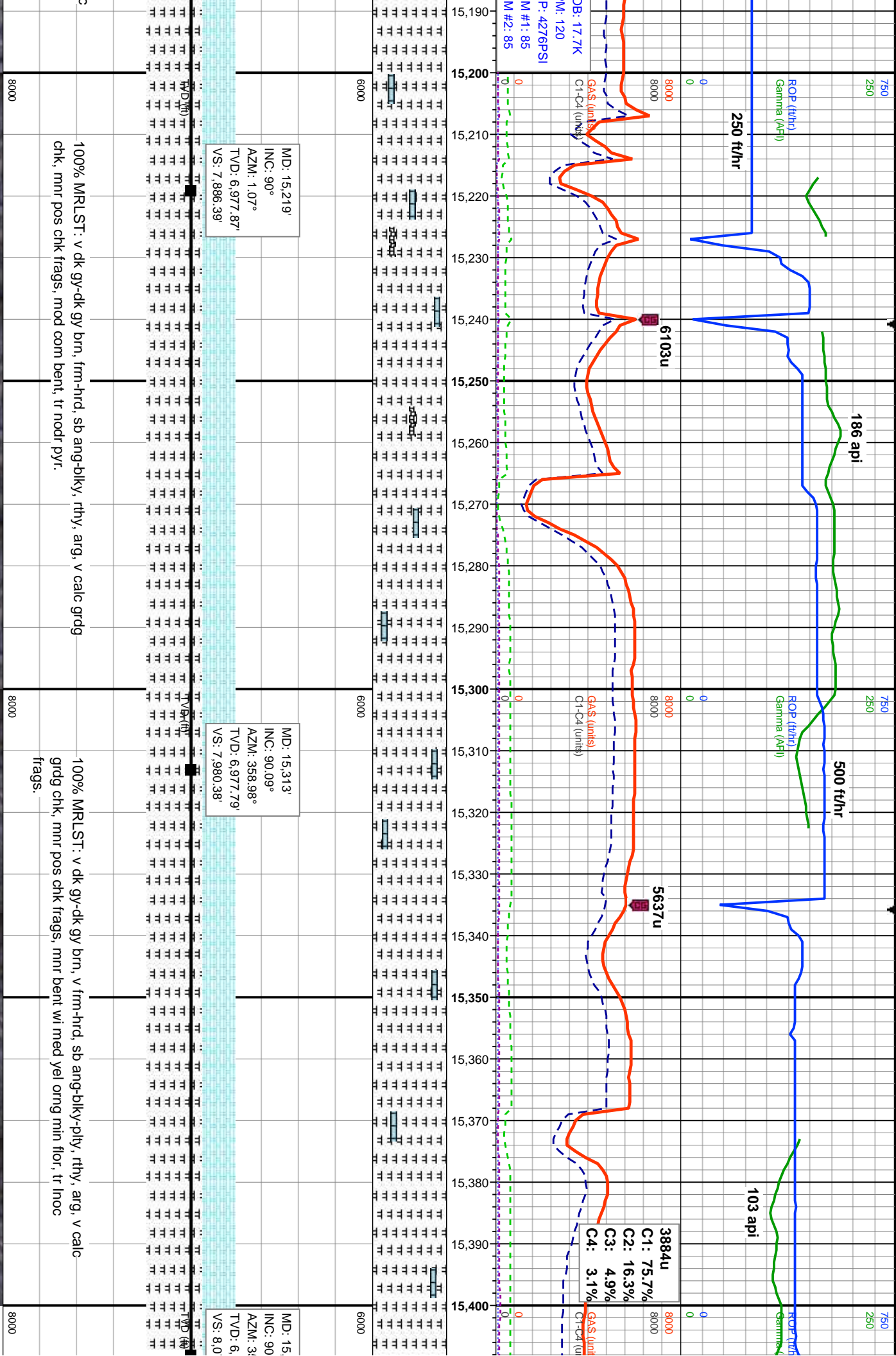
MD: 15.029'
INC: 90.15°
AZM: 1.81°
TVD: 6.977.79'
VS: 7.696.46'

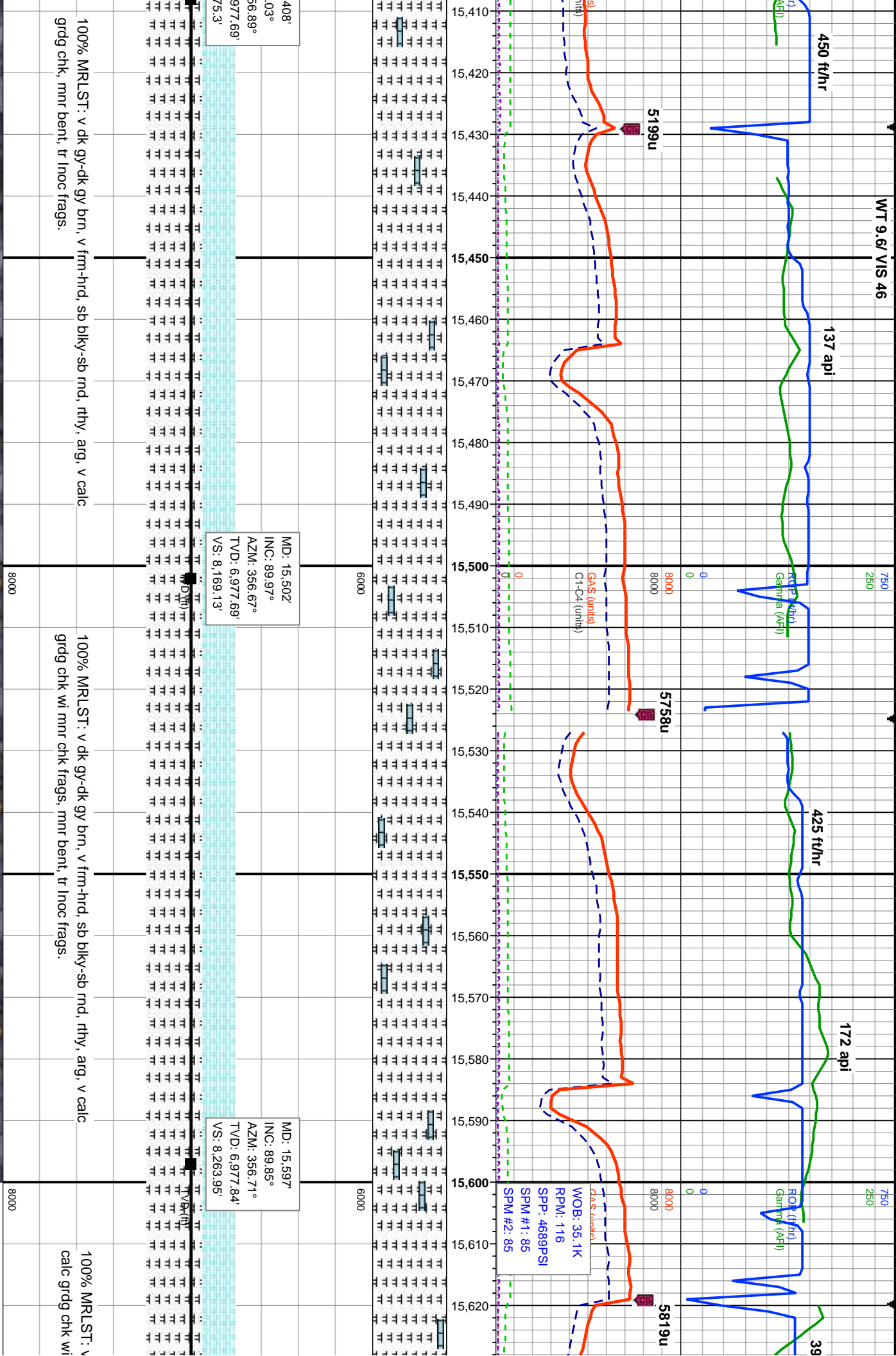
MD: 15.124'
INC: 89.88°
AZM: 2.03°
TVD: 6.977.77'
VS: 7.791.42'

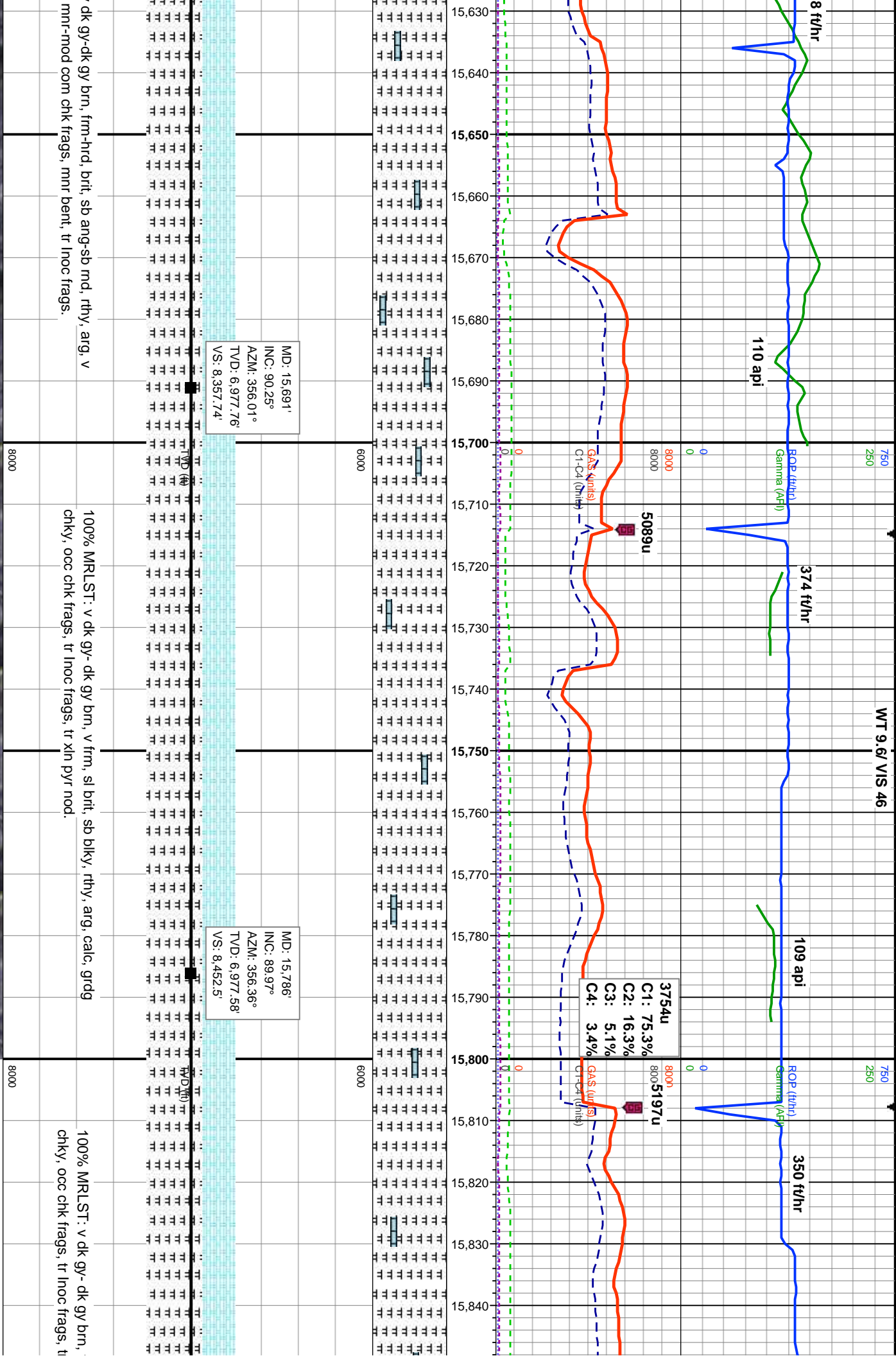
100% MRLST: v dk gy-dk gy brn, v frm-hrd, brit, sb blk-y-sb md, rthy, arg, v calc grdg chk, mn-r-mod com bent, tr nodr pyr.

100% MRLST: v dk gy-dk gy brn, frm-hrd, brit, blk-y-sb md, rthy, arg, v calc grdg chk, mn-r-mod com bent, tr nodr pyr.

rthy, arg, v calc, m-brit, sb blk-y-blky,







WT 9.6/ VIS 46

8 ft/hr

110 api

374 ft/hr

109 api

350 ft/hr

5089u

3754u

5197u

C1: 75.3%
C2: 16.3%
C3: 5.1%
C4: 3.4%

MD: 15.691'
INC: 90.25°
AZM: 356.01°
TVD: 6.977.76'
VS: 8.357.74'

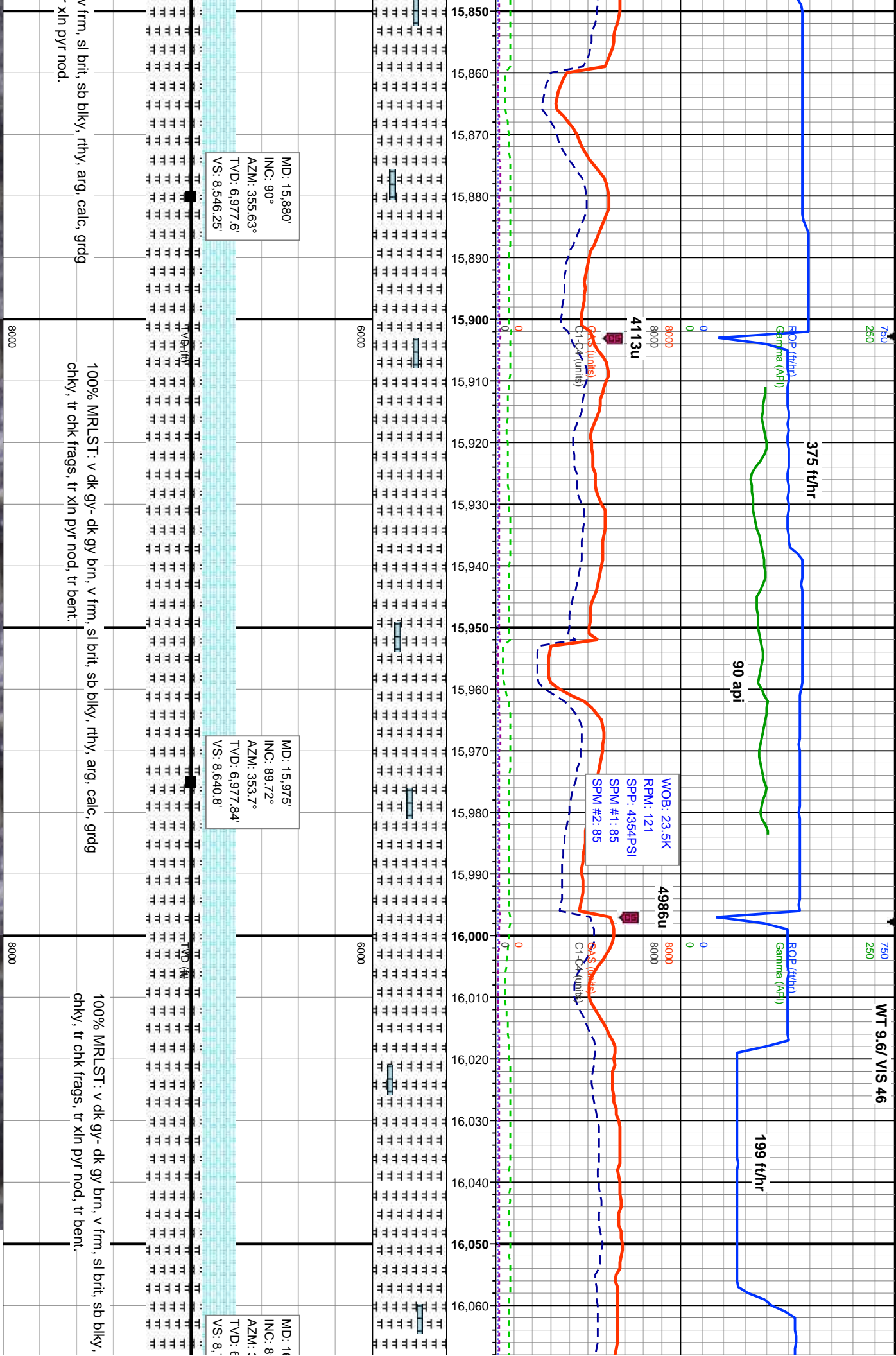
MD: 15.786'
INC: 89.97°
AZM: 356.36°
TVD: 6.977.58'
VS: 8.452.5'

dk gy-dk gy brn, frm-hrd, brit, sb ang-sb md, rthy, arg, v
mnr-mod com chk frags, mnr bent, tr inoc frags.

100% MRLST: v dk gy- dk gy brn, v frm, sl brit, sb blk, rthy, arg, calc, grdg
chk, occ chk frags, tr inoc frags, tr xln pyr nod.

100% MRLST: v dk gy- dk gy brn,
chk, occ chk frags, tr inoc frags, tr





v frm, sl brit, sb blk, rthy, arg, calc, grdg
xln pyr nod.

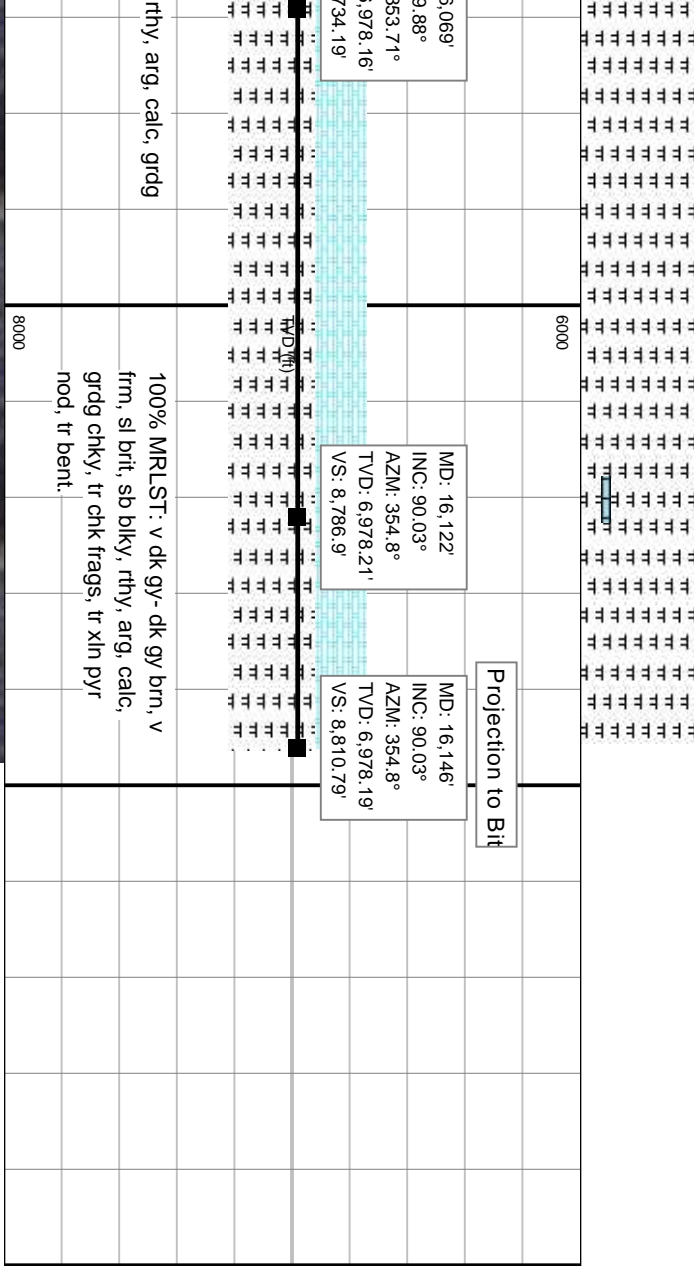
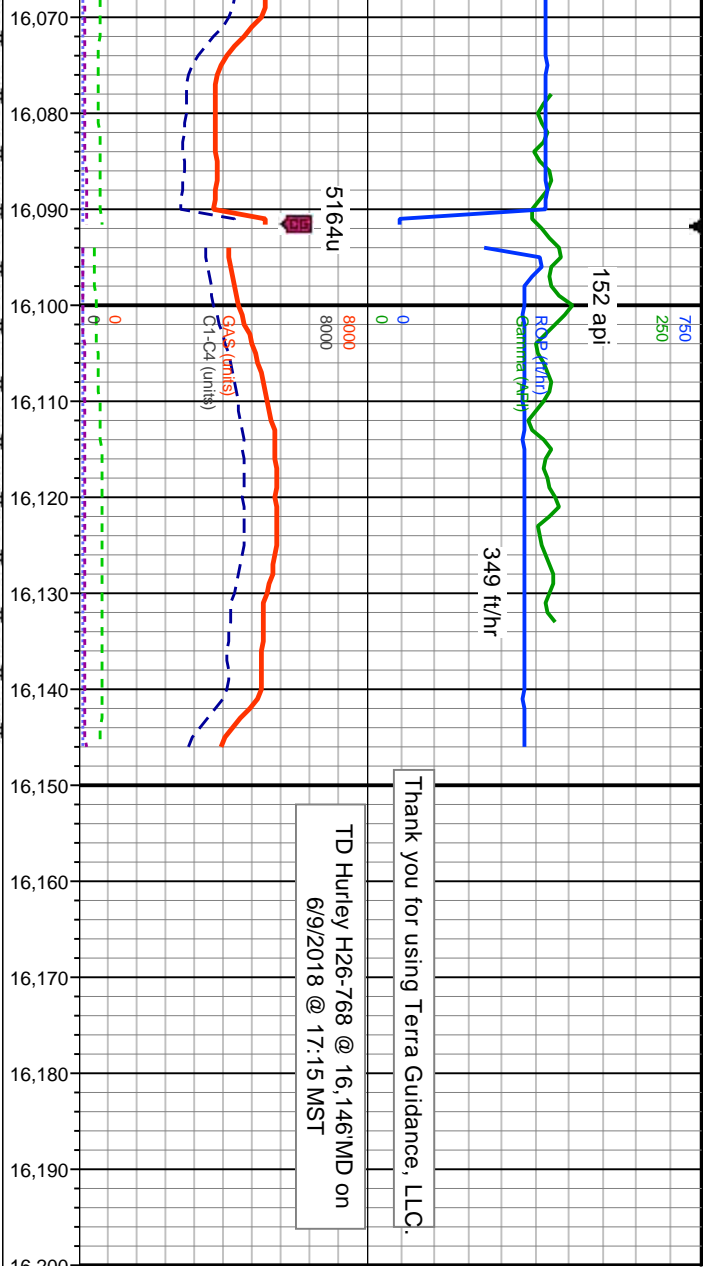
MD: 15,880'
INC: 90°
AZM: 355.63°
TVD: 6,977.6'
VS: 8,546.25'

100% MRLST: v dk gy- dk gy brn, v frm, sl brit, sb blk, rthy, arg, calc, grdg
chky, tr chk frags, tr xln pyr nod, tr bent.

MD: 15,975'
INC: 89.72°
AZM: 353.7°
TVD: 6,977.84'
VS: 8,640.8'

100% MRLST: v dk gy- dk gy brn, v frm, sl brit, sb blk, rthy, arg, calc, grdg
chky, tr chk frags, tr xln pyr nod, tr bent.

MD: 16,060'
INC: 89.72°
AZM: 353.7°
TVD: 6,977.84'
VS: 8,640.8'



MD: 5,069'
INC: 9.88°
AZM: 353.71°
TVD: 9,978.16'
VS: 8,734.19'

MD: 16,122'
INC: 90.03°
AZM: 354.8°
TVD: 6,978.21'
VS: 8,786.9'

MD: 16,146'
INC: 90.03°
AZM: 354.8°
TVD: 6,978.19'
VS: 8,810.79'

100% MRLST: v dk gy- dk gy brn, v
frm, sl brit, sb blk. rthy, arg, calc,
grdg chky, tr chk frags, tr xln pyr
nod, tr bent.

rthy, arg, calc, grdg

