



Scale: 5" / 100'
Measured Depth Log

Well Name SHOOK 3-10-1CDH

Location NWSE SEC 3 T1S R67W

State COLORADO

County ADAMS

Country USA

Rig Number ENSIGN 145

API Number 05-001-09968

AFE # 17002

Geographic Region DENVER-JULESBURG BASIN

Field WATTENBERG

Spud Date 4/8/2017

Drilling Completed 5/20/2017

Surface Coordinates NWSE SEC3 T1S, R67W
2058' FSL x 2289' FEL

Lat/Long: 39.99222/-104.8737

Ground Elevation 5098'

K.B. Elevation 5111'

Logged Interval 1841' To 9008'

Total Depth 7167'

Formation SURFACE - CODELL

Type of Drilling Fluid OIL BASED MUD

Operator

Company Petro Share

Address 7200 S Alton Way
Englewood, CO 80112



Geologist

Name JEFF LACY, GARY MYERS

Company TERRA GUIDANCE

Address 1298 O Road
Lemo, CO 81524

Zone Color Coding

Oil	Condensate	Gas
Note	Core	Pressure
Error	Water	Seal



Rock Types

UNKNOWN	ANHYDRITE	CHALK	SHALE GRAY	SILTY SHALE
GYPSUM	COAL	CHERT	SHALE COLORED	BENTONITE
SALT	MARLSTONE	SILTSTONE	SANDSTONE	SHALY SILTSTONE
SIDERITE or LIMONITE	CLAYSTONE	CONGLOMERATE	IGNEOUS	METAMORPHIC
LIMESTONE	SHALE	SHALY SANDSTONE	CEMENT	

Accessories

Fossils

ALGAE
AMPHIPORA
BELEMNITE
BIOCLASTIC
BRACHIOPOD
BRYOZOA
CEPHALOPOD
CORAL
CRINOID
ECHINOID
FISH
FORAMINIFERA

Fossil

GASTROPOD
OOLITE
OSTRACOD
PELECYPOD
PELLET
PISOLITE
PLANT REMAINS
PLANT SPORES
SCAPHOPOD
STROMATOPOROID

Minerals

ANHYDRITIC

Argillaceous

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

Glaucconite

GYPSIFEROUS
HEAVY MINERAL
KAOLIN
MARLSTONE
MINERAL CRYSTALS
NODULES
PHOSPHATE PELLETS
PYRITE
SALT CAST
SANDY
SILICEOUS
SILTY
TUFFACEOUS

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

DEAD
EVEN
QUESTIONABLE
SPOTTED STAINING

Porosity

EARTHY
FENESTRAL
FRACTURE
INTERCRYSTALLINE
INTEROOLITIC
MOLDIC

Organic

PINPOINT
VUGGY

Engineering

BIT
CASING
CONNECTION (LEFT)
CONNECTION (RIGHT)
CONNECTION GAS
CORE - LOST
CORE - RECOVERED
DST INTERVAL
FAULT

Formation Top

GAS SHOW
MN DEPTH
NORMAL FAULT
OIL SHOW
OVERTURNED STRATA
REVERSE FAULT
SIDEWALL CORE (LEFT)
SIDEWALL CORE (RIGHT)
SLIDE
SURVEY
TRIP GAS
WIRELINE TESTED - LEFT
WIRELINE TESTED - RT

Rounding

ANGULAR
ROUNDED
SUBANG
SUBRND

Textures

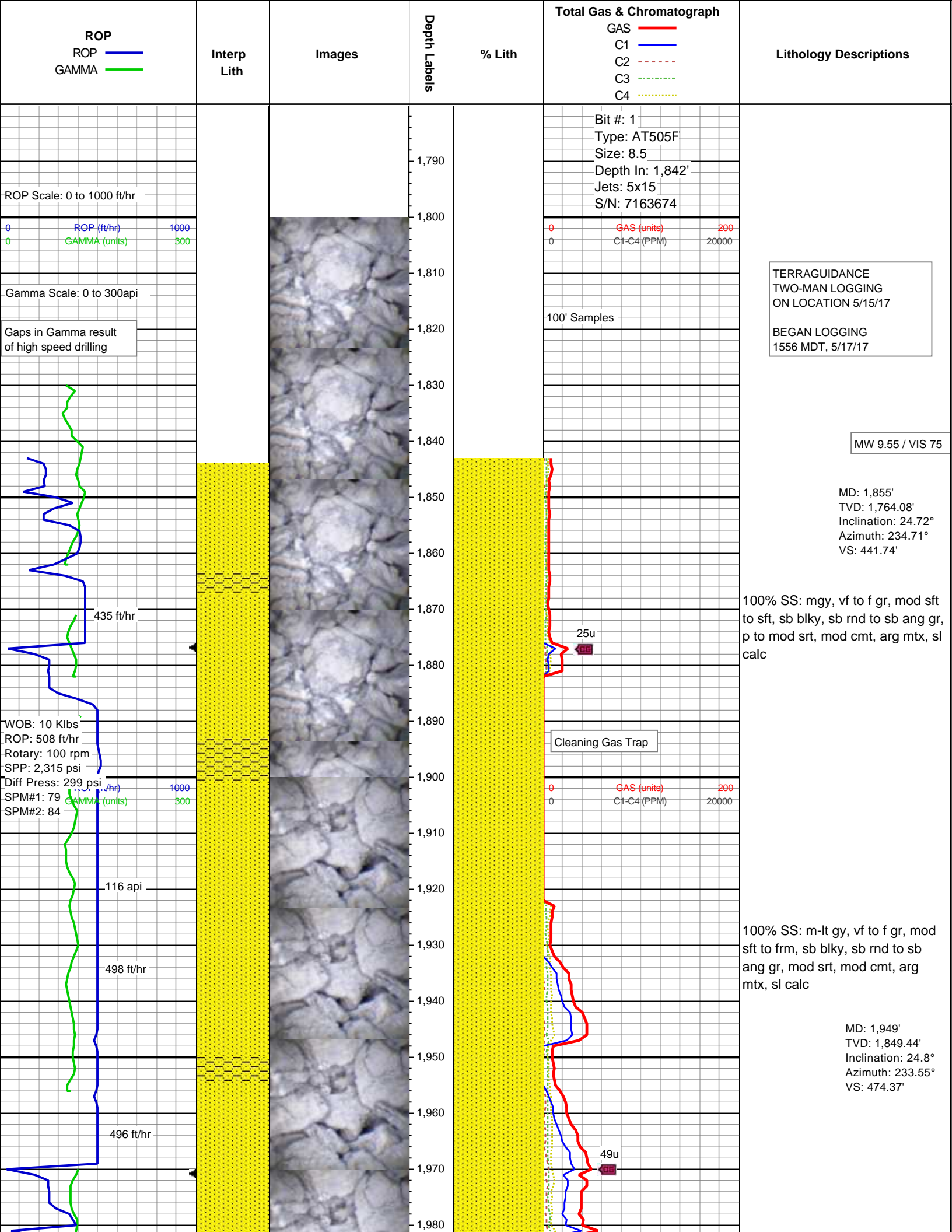
BOUNDSTONE
CHALKY
CRYPTOXLN
EARTHY
FINELYXLN
GRAINSTONE

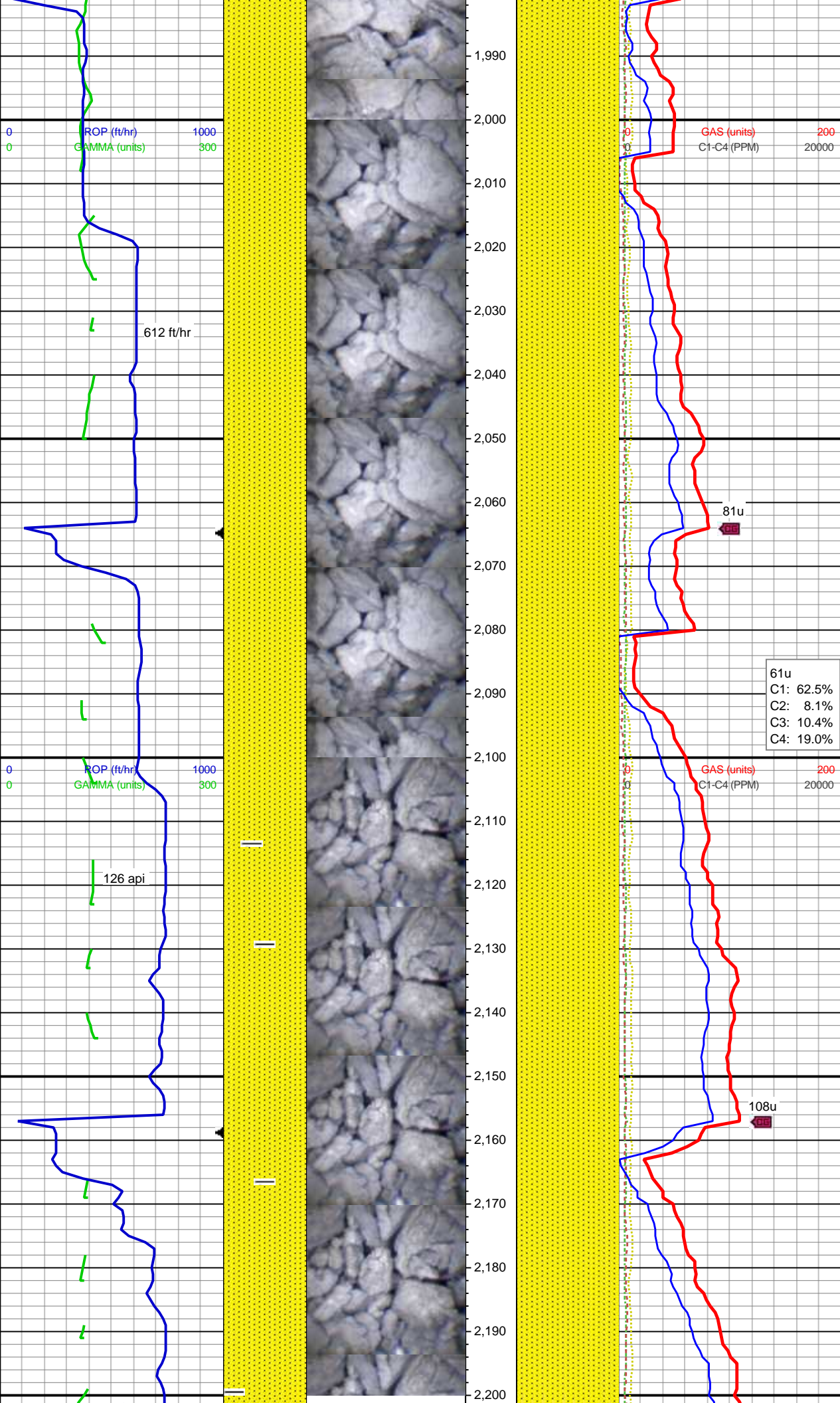
Lithographic

MICROXLN
MUDSTONE
PACKSTONE
WACKESTONE

Sorting

MODERATE
POOR
WELL





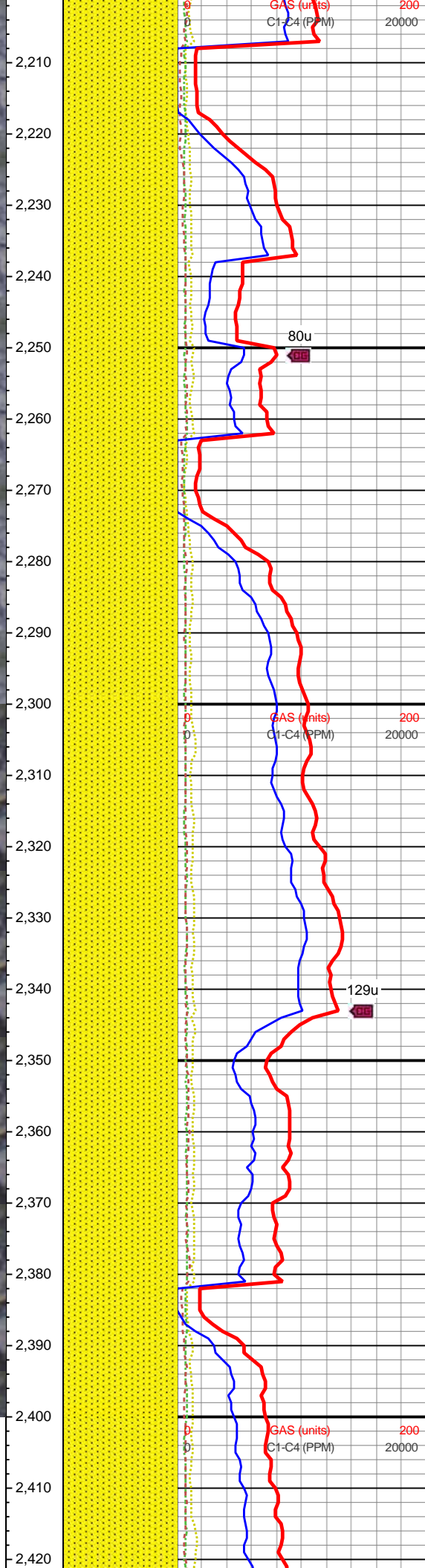
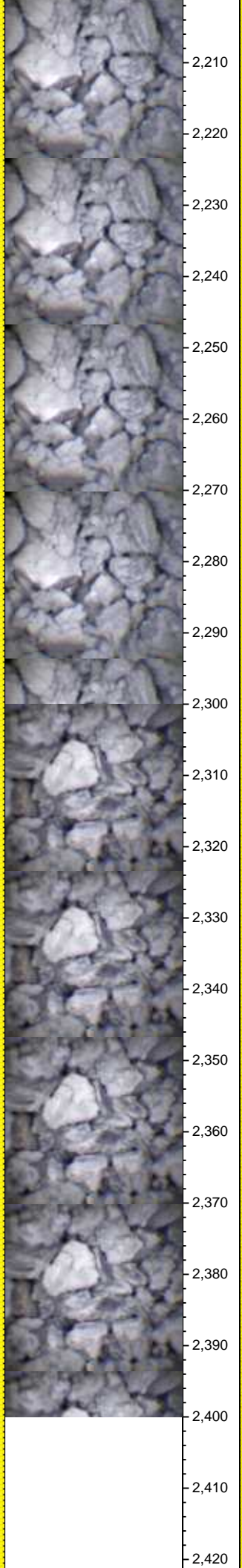
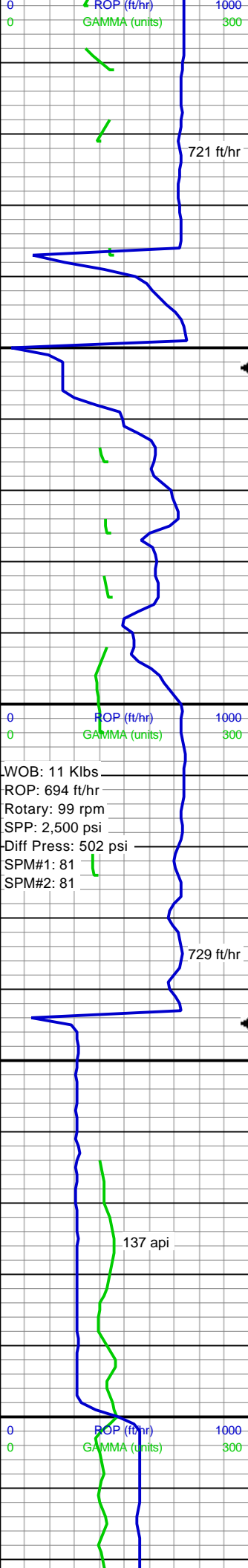
MW 9.5 / VIS 74

MD: 2,042'
TVD: 1,933.98'
Inclination: 24.45°
Azimuth: 233.17°
VS: 506.77'

100% SS: lt - med gy, vf to f gr,
mod sft to frm, sb rnd to sb ang
gr, mod srt, mod cmt, arg mtx, sl
calc

MD: 2,135'
TVD: 2,018.69'
Inclination: 24.33°
Azimuth: 233.41°
VS: 538.91'

100% SS: lt - med gy, vf to f gr,
mod sft to frm, sb blk to sb ang,
mod srt, mod cmt, arg mtx, sl calc



MW 9.45 / VIS 70

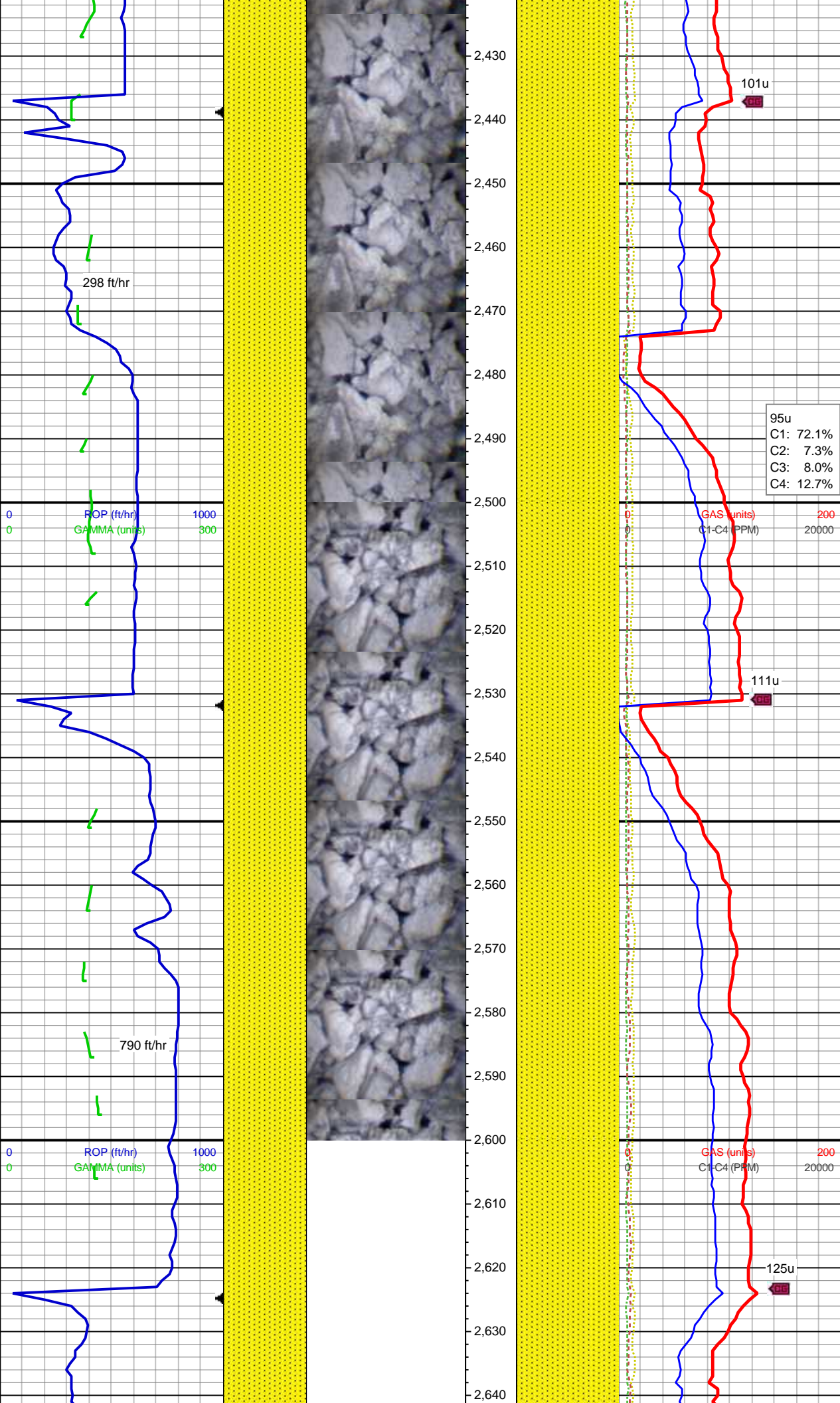
MD: 2,228'
TVD: 2,103.37'
Inclination: 24.51°
Azimuth: 233.99°
VS: 570.94'

100% : lt - med gy, vf to f gr, frm,
sb blkly to sb ang, mod srt, mod
cmt, arg mtx, tr calc

MD: 2,321'
TVD: 2,188.37'
Inclination: 23.37°
Azimuth: 237.24°
VS: 601.66'

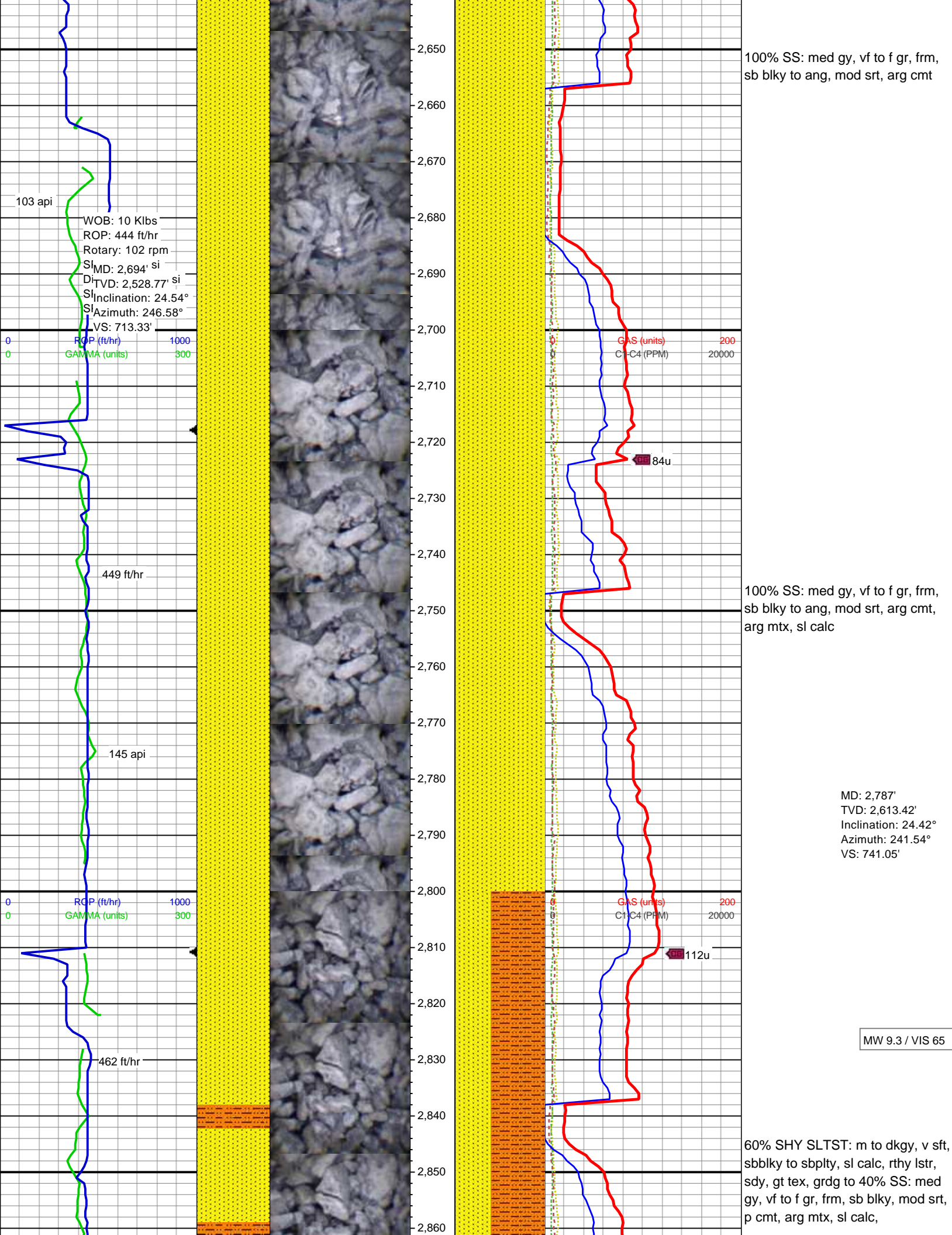
100% SS: lt - med gy, vf to f gr,
frm, sb blkly to sb ang, mod srt,
mod cmt, arg mtx, tr sh

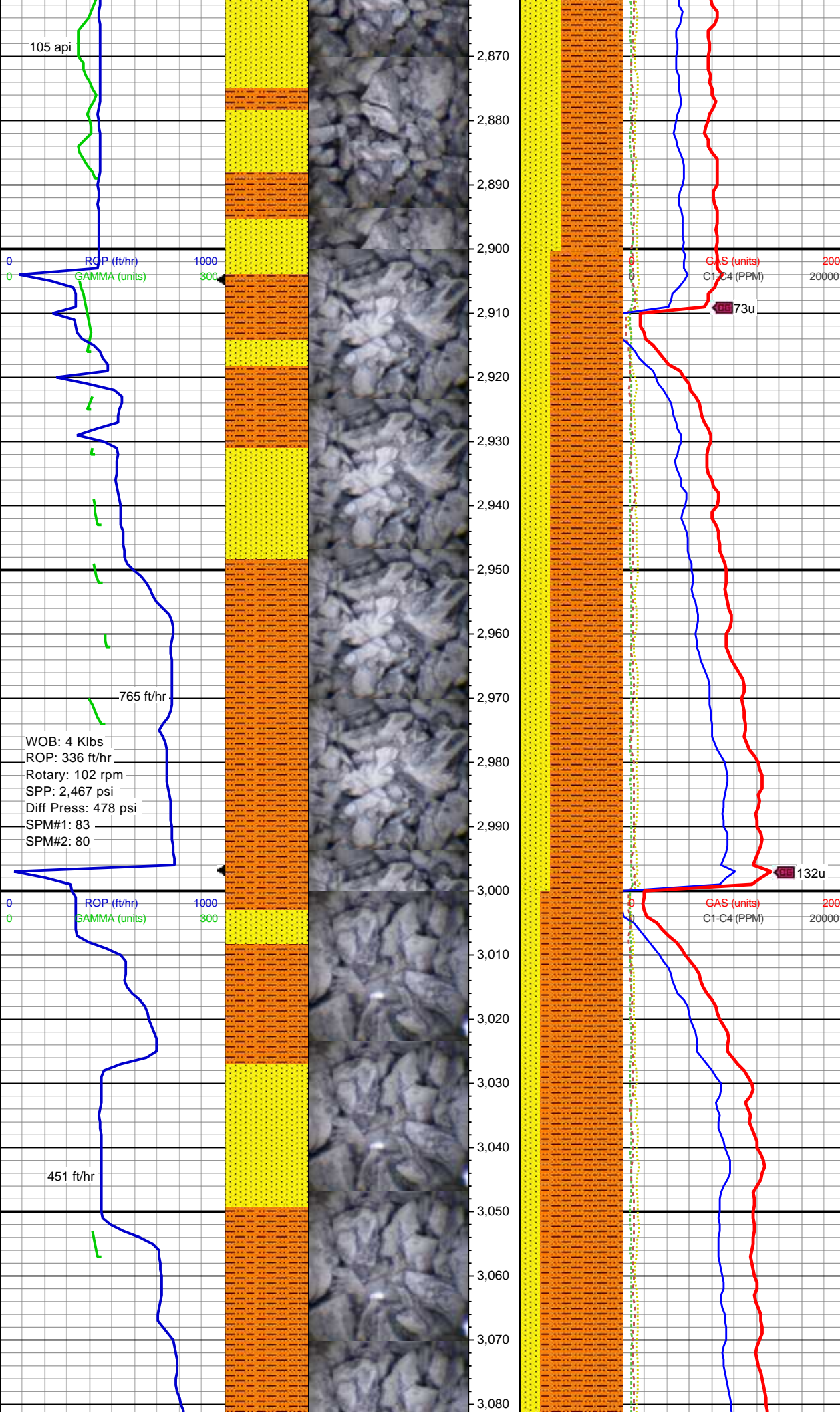
MD: 2,415'
TVD: 2,274.37'
Inclination: 24.29°
Azimuth: 243.71°
VS: 630.54'



MD: 2,508'
TVD: 2,359.12'
Inclination: 24.35°
Azimuth: 241.94°
VS: 658.67'

MD: 2,601'
TVD: 2,443.97'
Inclination: 23.96°
Azimuth: 244.33°
VS: 686.49'





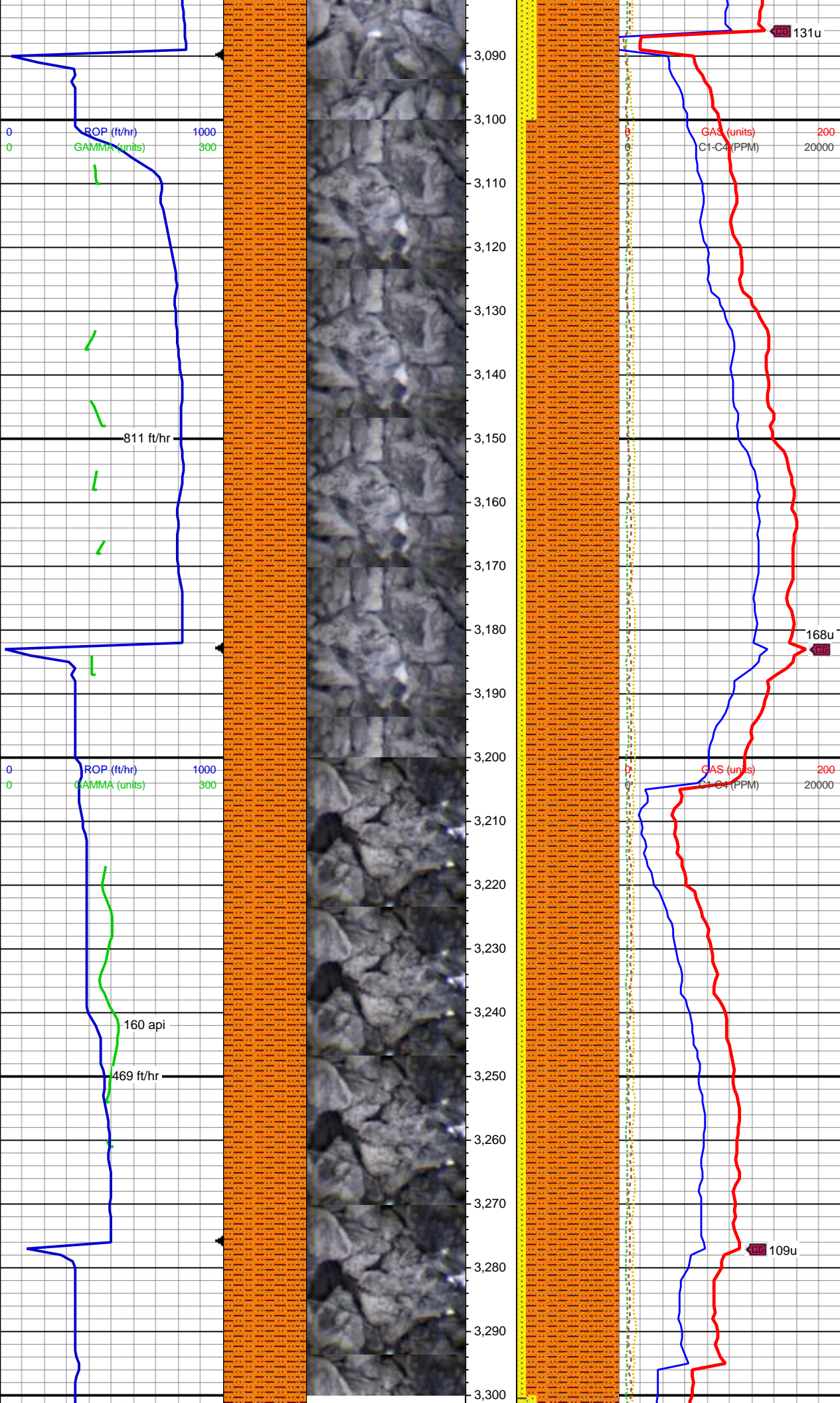
MD: 2,880'
TVD: 2,698.07'
Inclination: 24.61°
Azimuth: 231.42°
VS: 772.02'

70% SHY SLTST: m to dkgy, v sft,
sbbkly to sbply, sl calc, rthy lstr,
sdy, gt tex, grdg to 30% SS: med
gy, vf to f gr, frm, sb blkly, mod srt,
p cmt, arg mtx, sl calc,

MD: 2,973'
TVD: 2,782.72'
Inclination: 24.4°
Azimuth: 223.43°
VS: 806.21'

80% SHY SLTST: m to dkgy, v sft,
sbbkly to sbply, sl calc, rthy lstr,
sdy, gt tex, grdg to 20% SS: med
gy, vf to f gr, frm, sb blkly, mod srt,
p cmt, arg mtx, sl calc,

MD: 3,066'
TVD: 2,867.54'
Inclination: 24.03°
Azimuth: 221.64°
VS: 841.47'

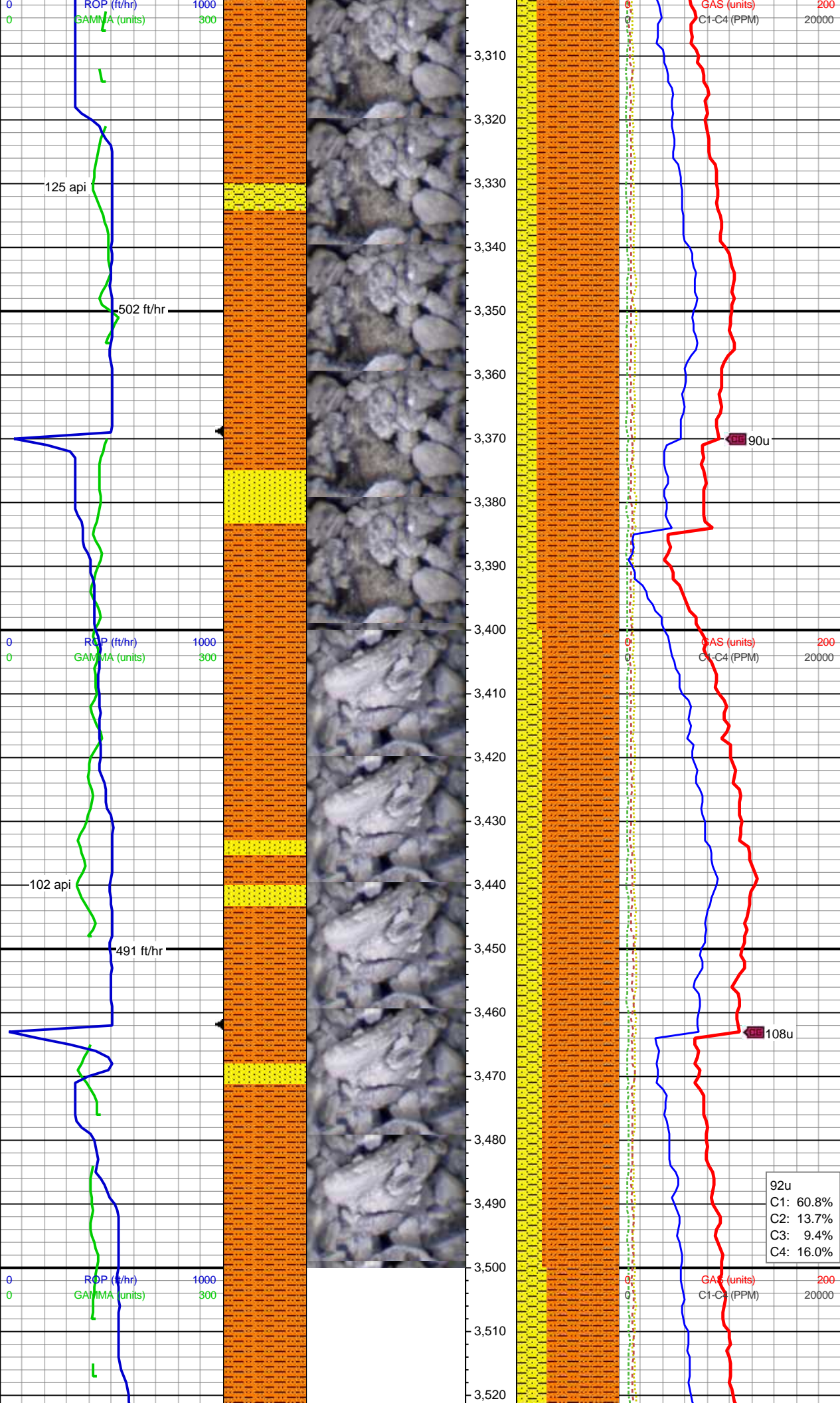


90% SHY SLTST: m to dkgy, v sft, sbblky to sbplty, sl calc, rthy lstr, sdy, gt tex, grdg to 10% SS: med gy, vf to f gr, frm, sb blky, mod srt, p cmt, arg mtx, sl calc,

MD: 3,159'
TVD: 2,953.17'
Inclination: 21.9°
Azimuth: 226.06°
VS: 874.68'

90% SHY SLTST: m to dkgy, v sft, sbblky to sbplty, sl calc, rthy lstr, sdy, gt tex, grdg to 10% SS: med gy, vf to f gr, frm, sb blky, mod srt, p cmt, arg mtx, sl calc,

MD: 3,252'
TVD: 3,039.12'
Inclination: 23.02°
Azimuth: 230.66°
VS: 905.94'



MD: 3,345'
TVD: 3,124.15'
Inclination: 24.75°
Azimuth: 229.72°
VS: 938.53'

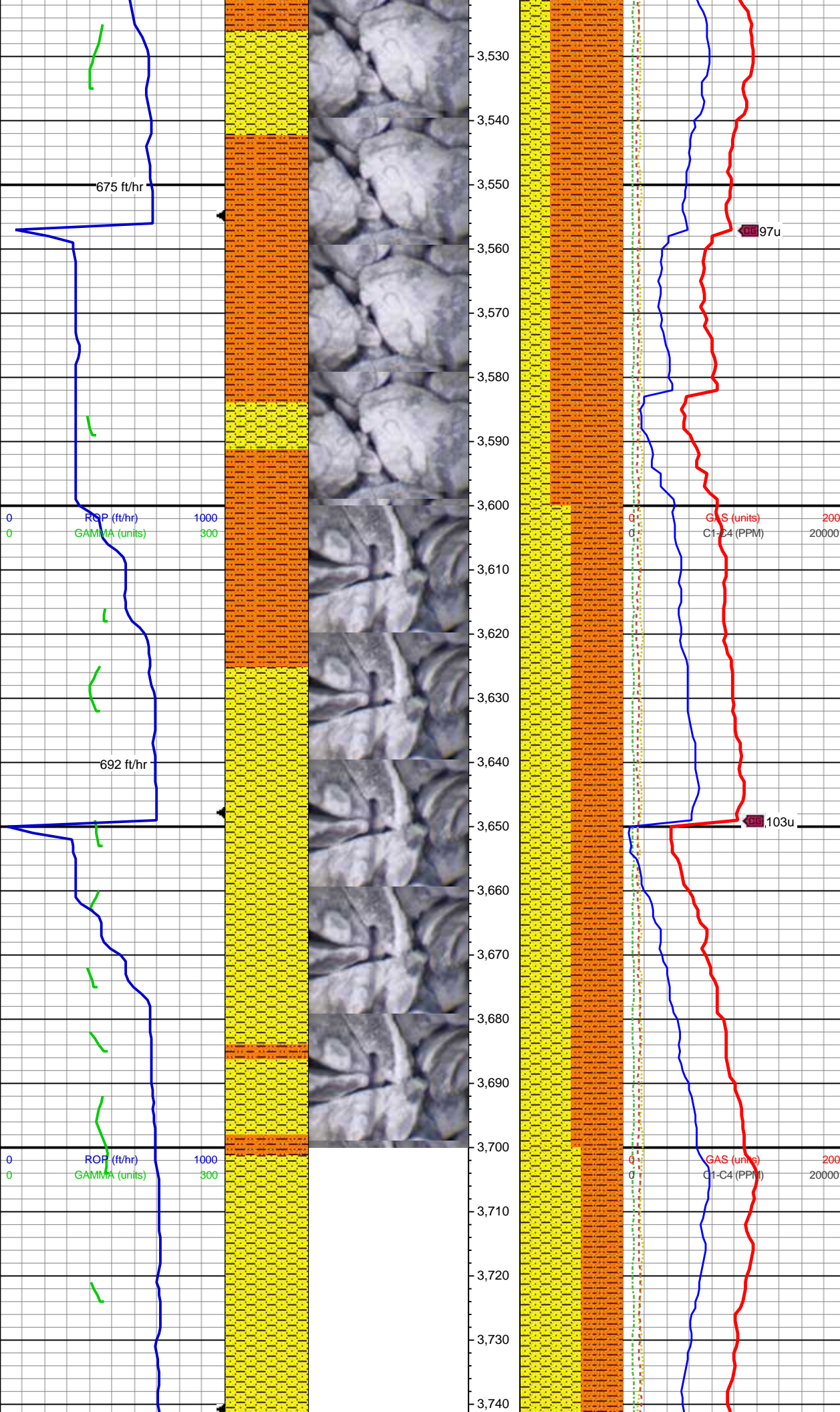
80% SHY SLTST: m to dkgy, v sft,
sbbkly to sbply, sl calc, rthy lstr,
sdy, gt tex, grdg to 20% SHY SS:
med gy, vf to f gr, frm, sb blkly,
mod srt, p cmt, arg mtx, sl calc,

MD: 3,438'
TVD: 3,208.69'
Inclination: 24.57°
Azimuth: 222.82°
VS: 973.3'

75% SHY SLTST: m to dkgy, v sft,
sbbkly to sbply, sl calc, rthy lstr,
sdy, gt tex, grdg to 25% SHY SS:
med gy, vf to f gr, frm, sb blkly,
mod srt, p cmt, arg mtx, sl calc,

MW 9.3 / VIS 64

92u
C1: 60.8%
C2: 13.7%
C3: 9.4%
C4: 16.0%



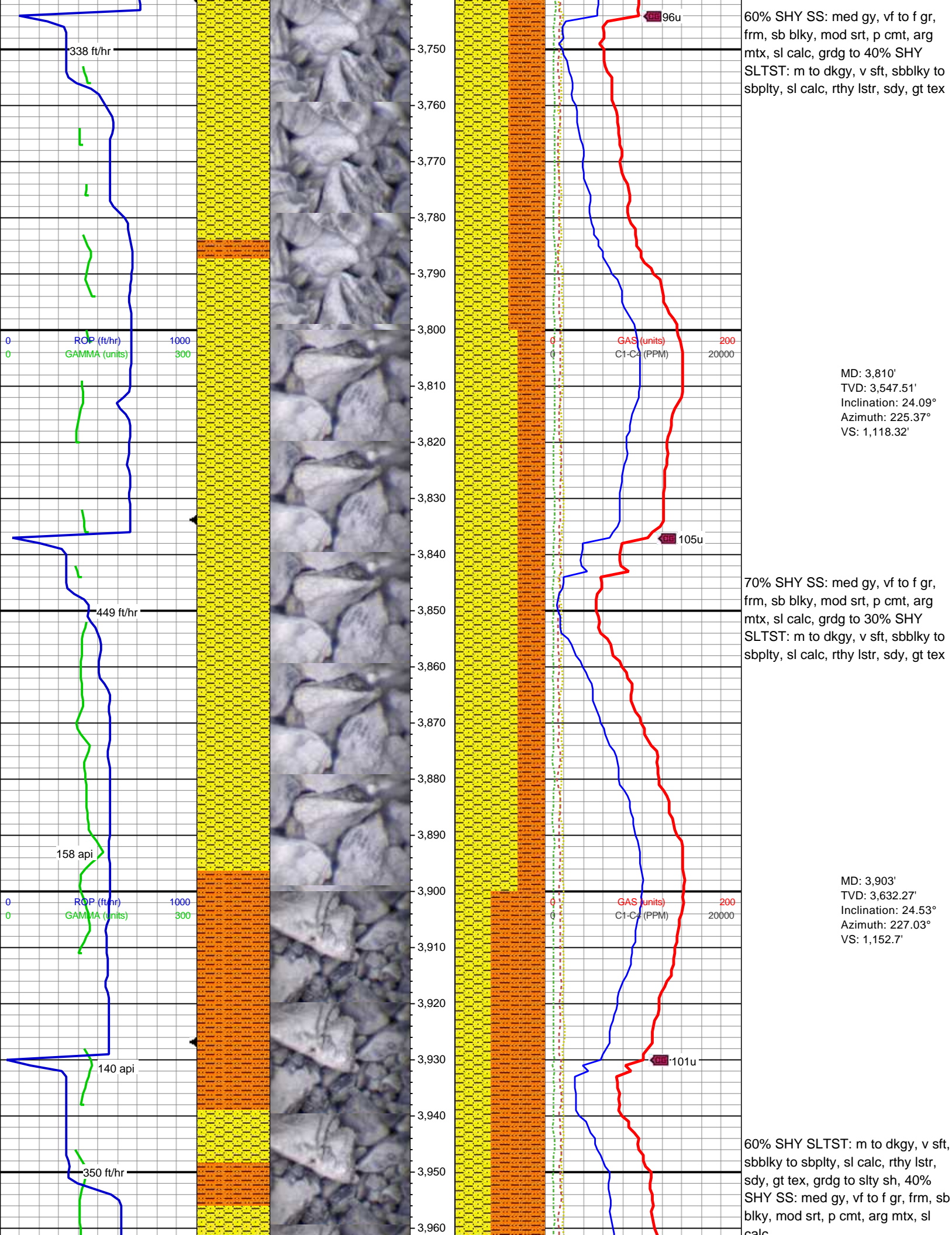
MD: 3,531'
TVD: 3,293.37'
Inclination: 24.31°
Azimuth: 216.89°
VS: 1,009.47'

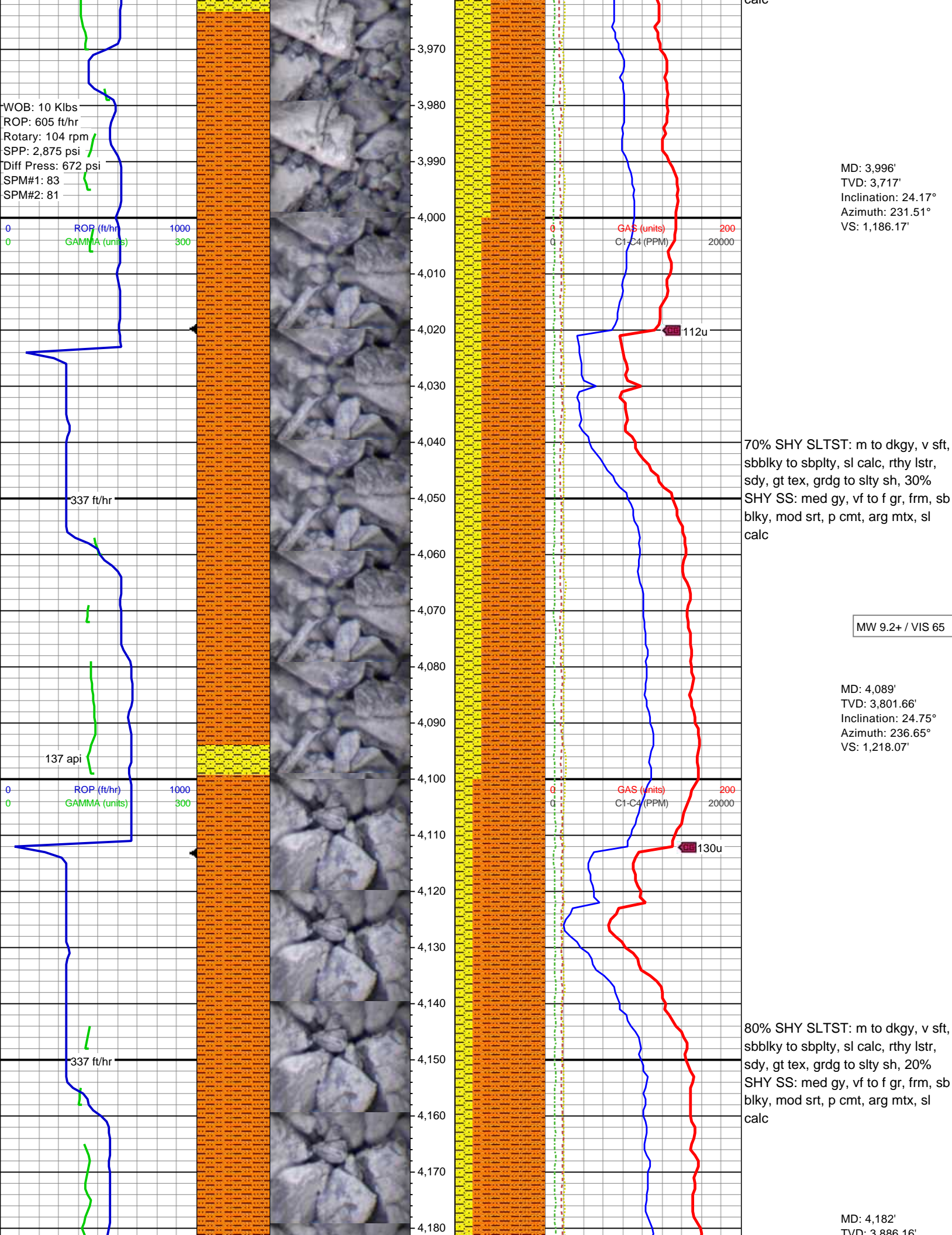
70% SHY SLTST: m to dkgy, v sft,
sbbiky to sbply, sl calc, rthy lstr,
sdy, gt tex, grdg to 30% SHY SS:
med gy, vf to f gr, frm, sb biky,
mod srt, p cmt, arg mtx, sl calc,

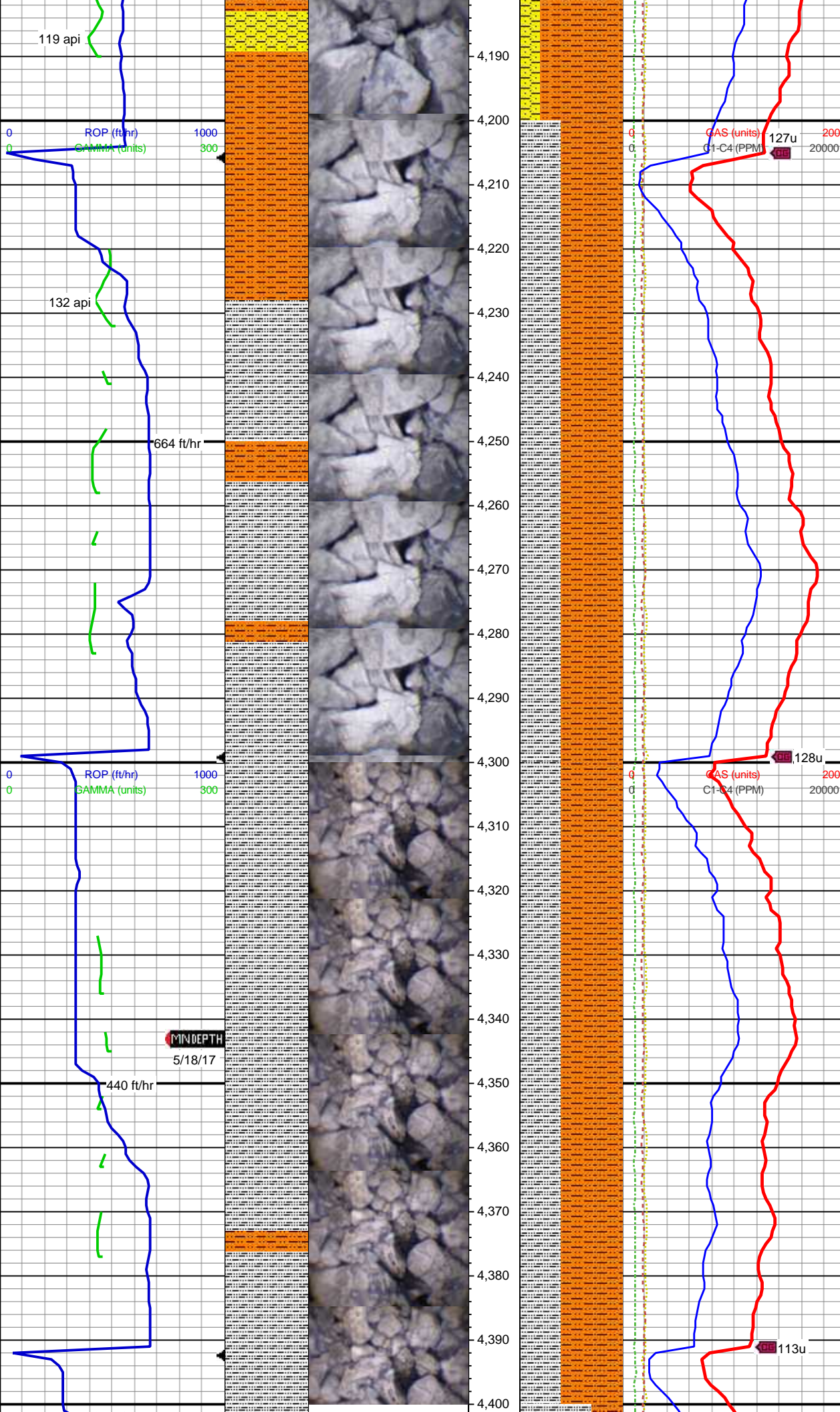
MD: 3,624'
TVD: 3,378.01'
Inclination: 24.63°
Azimuth: 215.76°
VS: 1,046.46'

50% SHY SLTST: m to dkgy, v sft,
sbbiky to sbply, sl calc, rthy lstr,
sdy, gt tex, grdg to 50% SHY SS:
med gy, vf to f gr, frm, sb biky,
mod srt, p cmt, arg mtx, sl calc,

MD: 3,717'
TVD: 3,462.67'
Inclination: 24.3°
Azimuth: 219.8°
VS: 1,083.14'







TVD: 3,800.10'
 Inclination: 24.65°
 Azimuth: 236.88°
 VS: 1,249.24'

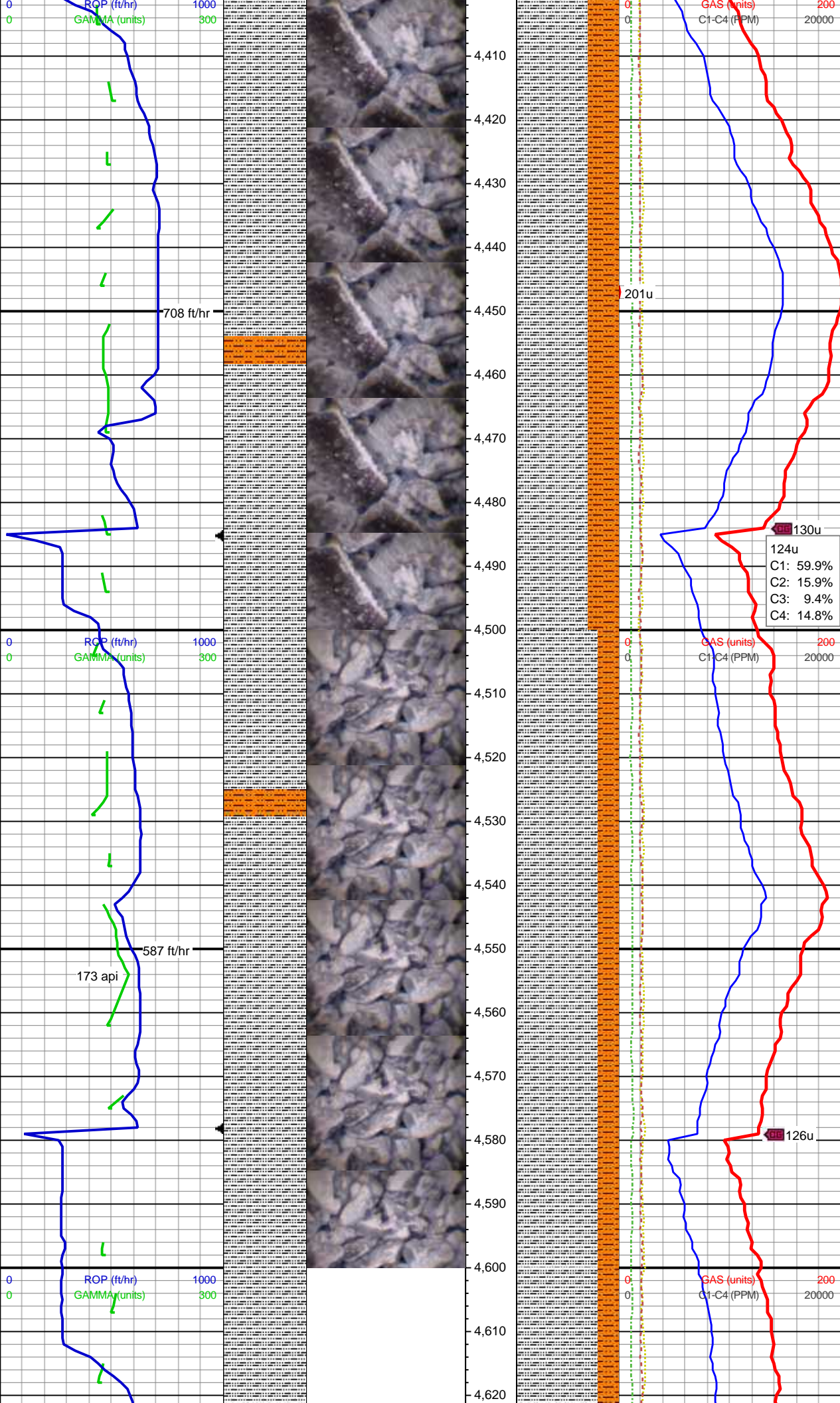
60% SHY SLTST: m to dkgy, v sft, sbbkly to sbply, sl calc, rthy lstr, sdy, gt tex, grdg to 40% SLTY SH: m to dkgy, sme gybrn ip, sbbkly to sbply, sft to sl frm, arg, sl calc ip, sdy ip

MD: 4,275'
 TVD: 3,970.65'
 Inclination: 24.75°
 Azimuth: 237.03°
 VS: 1,280.34'

MW 9.2+ / VIS 64

60% SHY SLTST: m to dkgy, v sft, sbbkly to sbply, sl calc, rthy lstr, sdy, gt tex, grdg to 40% SLTY SH: m to dkgy, sme gybrn ip, sbbkly to sbply, sft to sl frm, arg, sl calc ip, sdy ip

MD: 4,368'
 TVD: 4,055.25'
 Inclination: 24.32°
 Azimuth: 233.51°
 VS: 1,311.89'

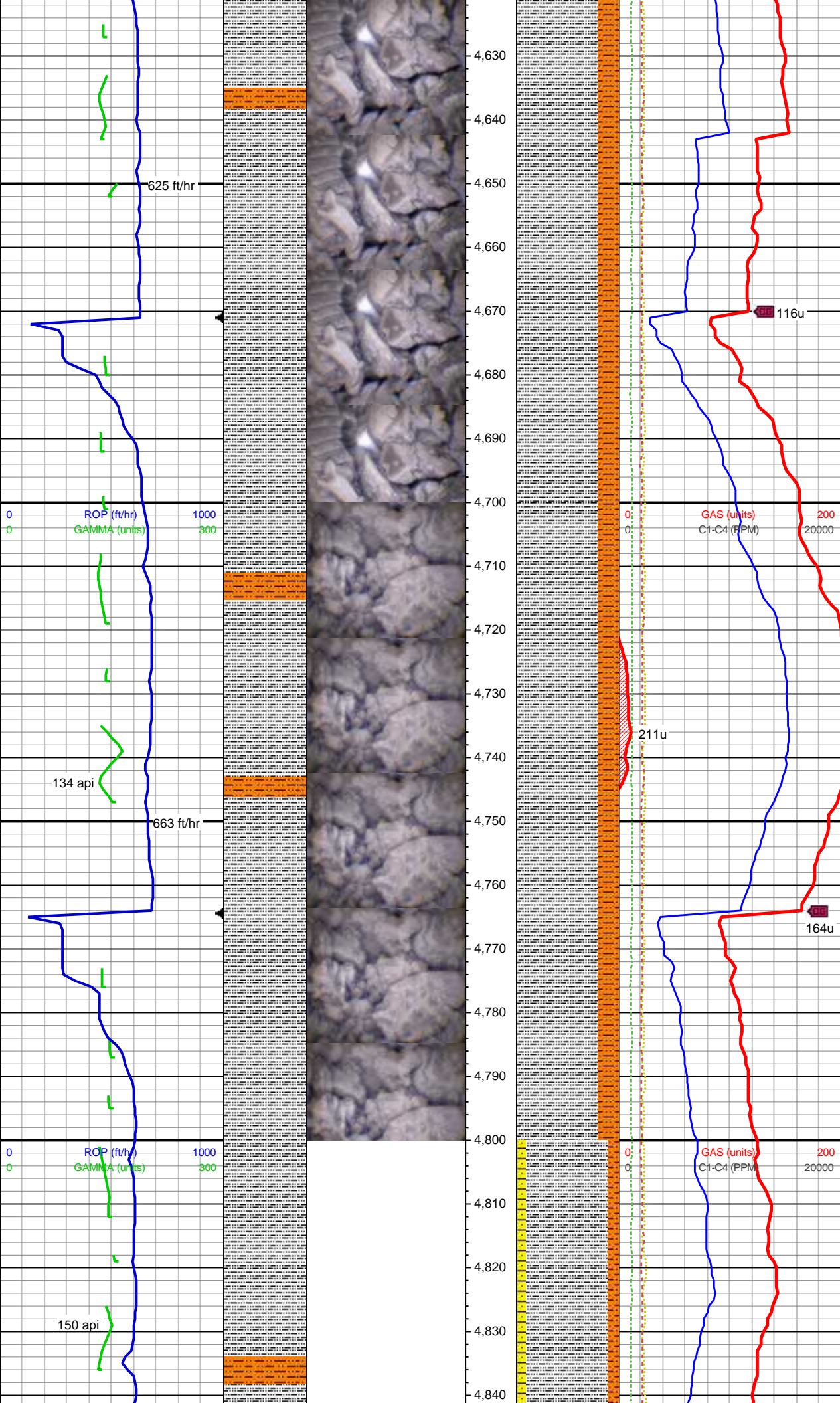


70% SLTY SH: m to dkgy, sbblky to sbplty, sft to sl frm, arg, gt tex, rthy lstr, sl calc ip, sdy ip, grdg to 30% SHY SLTST: m to dkgy, v sft, sbblky to sbplty, sl calc, rthy lstr, sdy, gt tex, occ lse wh cly

MD: 4,461'
TVD: 4,139.95'
Inclination: 24.48°
Azimuth: 233.36°
VS: 1,344'

80% SLTY SH: m to dkgy, sbblky to sbplty, sft to sl frm, arg, gt tex, rthy lstr, sl calc ip, sdy ip, grdg to 20% SHY SLTST: m to dkgy, v sft, sbblky to sbplty, sl calc, rthy lstr, sdy, gt tex, occ lse wh cly

MD: 4,554'
TVD: 4,224.58'
Inclination: 24.51°
Azimuth: 234.84°
VS: 1,375.96'



80% SLTY SH: m to dkgy, sbbkly to sbplty, sft to sl frm, arg, gt tex, rthy lstr, sl calc ip, sdy ip, grdg to 20% SHY SLTST: m to dkgy, v sft, sbbkly to sbplty, sl calc, rthy lstr, sdy, gt tex, occ lse wh cly

MD: 4,647'
TVD: 4,309.04'
Inclination: 25°
Azimuth: 231.17°
VS: 1,408.65'

MW 9.3 / VIS 61

116u

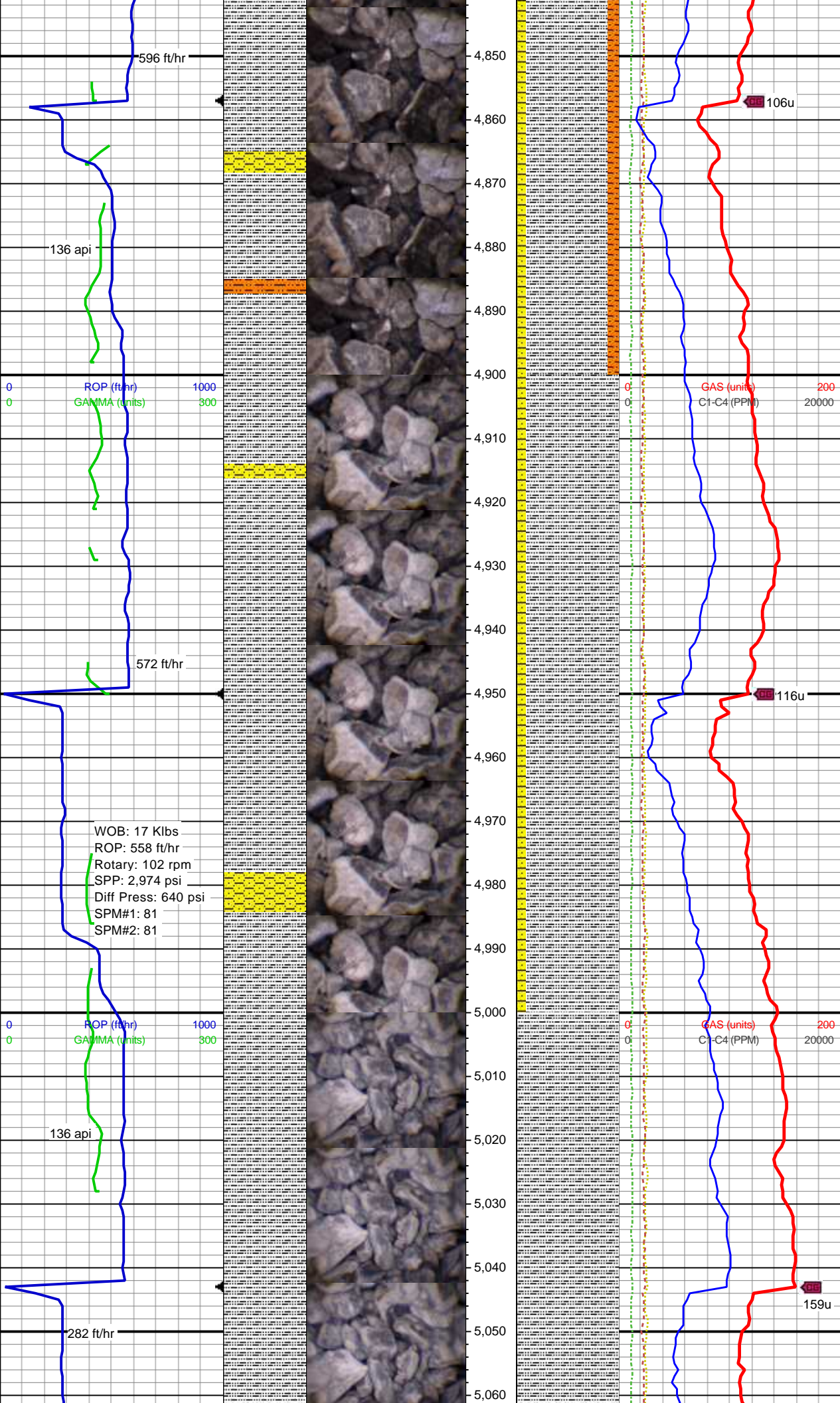
211u

164u

80% SLTY SH: m to dkgy, sbbkly to sbplty, sft to sl frm, arg, gt tex, rthy lstr, sl calc ip, sdy ip, grdg to 20% SHY SLTST: m to dkgy, v sft, sbbkly to sbplty, sl calc, rthy lstr, sdy, gt tex, occ lse wh cly

MD: 4,740'
TVD: 4,393.43'
Inclination: 24.68°
Azimuth: 228.92°
VS: 1,442.5'

MD: 4,833'
TVD: 4,477.91'
Inclination: 24.8°
Azimuth: 224.04°
VS: 1,477.35'



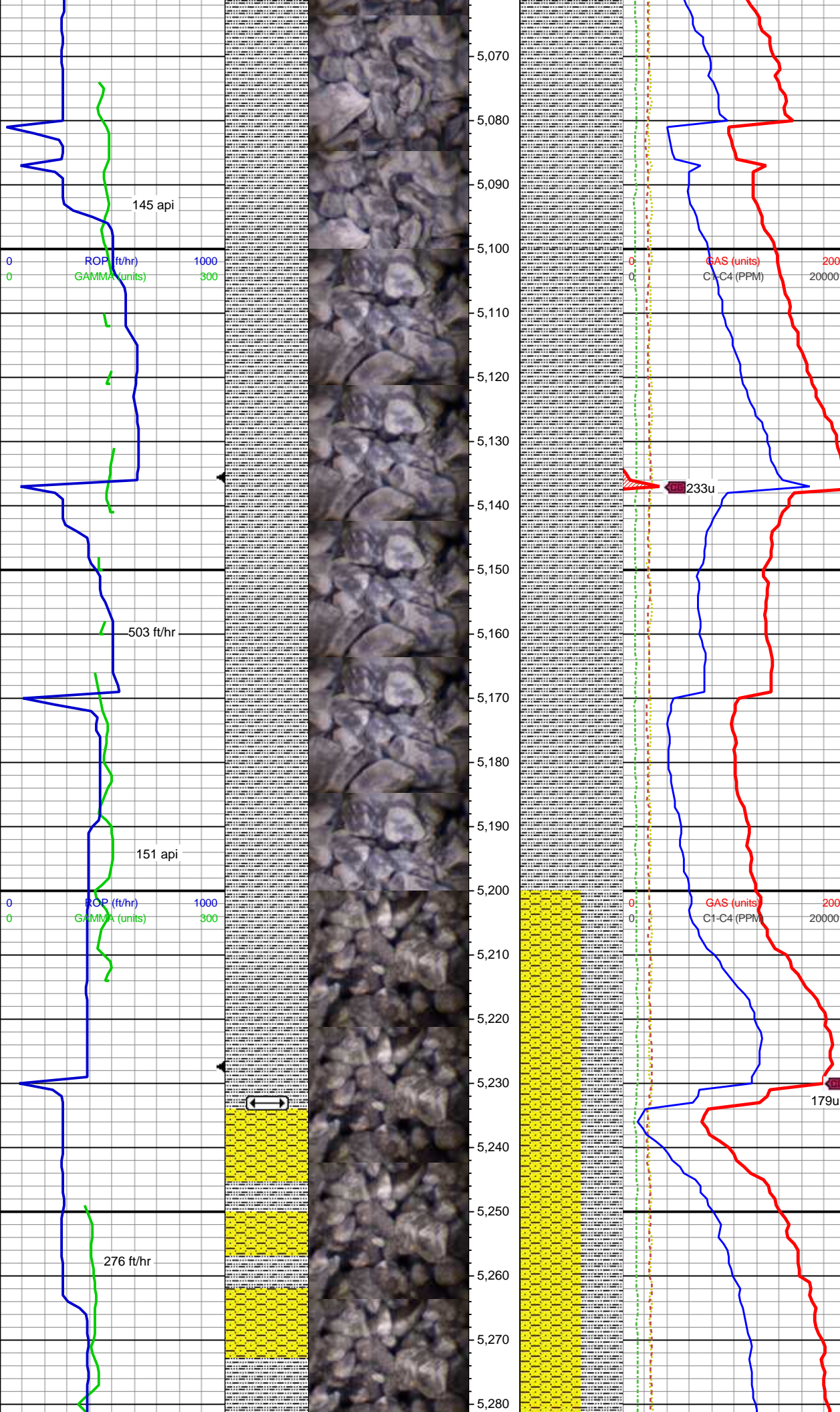
80% SLTY SH: m to dkgy, sbbly to sbply, sft to sl frm, arg, gt tex, rthy lstr, sl calc ip, sdy ip, grdg to 10% SHY SLTST: m to dkgy, v sft, sbbly to sbply, sl calc, rthy lstr, sdy, gt tex, occ lse wh cly, 10% SHY SS: med gy, vf, sl frm, sb bly, mod srt, p cmt, arg mtx, sl calc

MD: 4,926'
TVD: 4,562.31'
Inclination: 24.92°
Azimuth: 216.69°
VS: 1,513.96'

90% SLTY SH: m to dkgy, sbbly to sbply, sft to sl frm, arg, gt tex, rthy lstr, sl calc ip, sdy ip, grdg to 10% SHY SS: med gy, vf, sl frm, sb bly, mod srt, p cmt, arg mtx, sl calc

MD: 5,019'
TVD: 4,646.73'
Inclination: 24.82°
Azimuth: 206.38°
VS: 1,552.16'

100% SLTY SH: m to dkgy, sbbly to sbply, sft to sl frm, arg, gt tex, rthy lstr, sl calc ip, sdy ip, grdg to shy ss



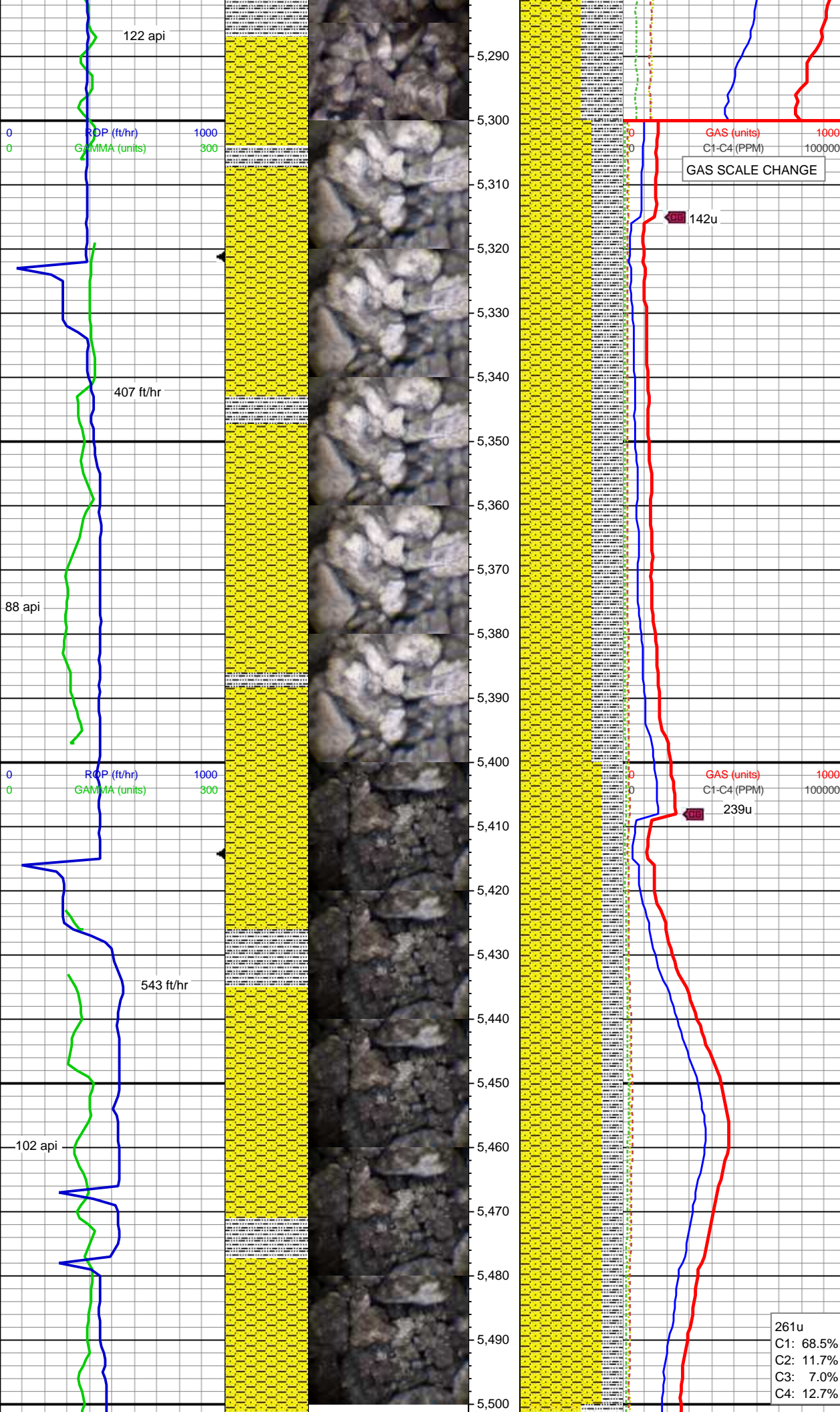
MD: 5,112'
TVD: 4,731.53'
Inclination: 23.66°
Azimuth: 207.82°
VS: 1,590.06'

100% SLTY SH: m to dkgy, sbbkly to sbply, sft to sl frm, arg, gt tex, rhy lstr, sl calc ip, sdy ip, grdg to shy ss

MD: 5,204'
TVD: 4,816.07'
Inclination: 22.91°
Azimuth: 219.15°
VS: 1,625.3'

Shannon/Sussex Top
5235' MD / 4845' TVD

60% SHY SS: lt- med gy, vf-f gr, sft-sl frm, sb blkly, mod srt, p cmt, arg mtx, sl calc, abnt lse cly, 40% SLTY SH: m to dkgy, sbbkly to sbply, sft to sl frm, arg, gt tex, rhy lstr, sl calc ip, sdy ip



MD: 5,297'
TVD: 4,901.09'
Inclination: 24.98°
Azimuth: 226.45°
VS: 1,660.02'

70% SHY SS: lt- med gy, vf-f gr, sft-sl frm, sb blk, mod srt, p cmt, arg mtx, sl calc, abnt lse cly, 30% SLTY SH: m to dkgy, sbblk to sbply, sft to sl frm, arg, gt tex, rthy lstr, sl calc ip, sdy ip

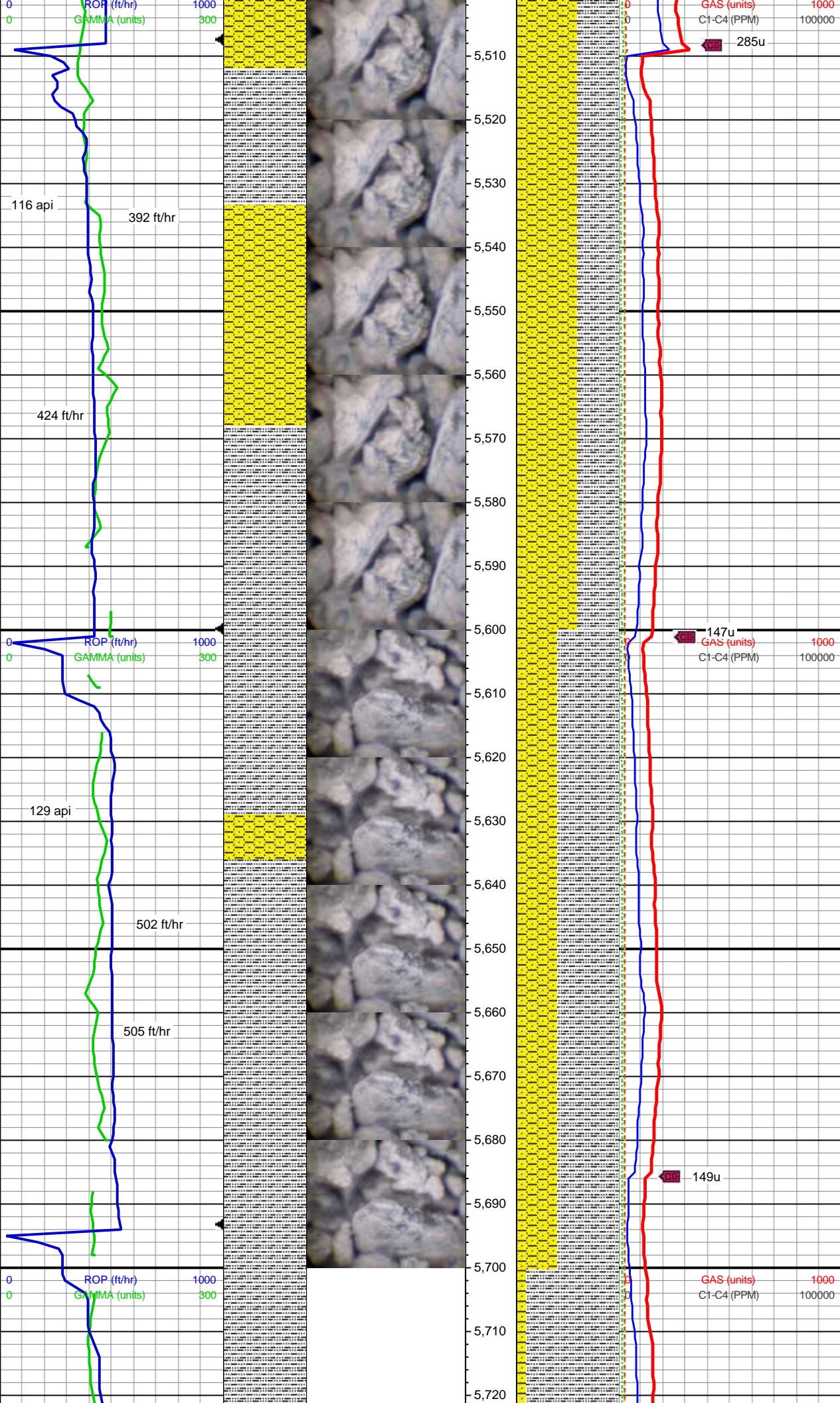
MW 9.3 / VIS 62

MD: 5,390'
TVD: 4,985.36'
Inclination: 25.06°
Azimuth: 227.26°
VS: 1,695.14'

80% SHY SS: lt- med gy, vf-f gr, sft-sl frm, sb blk, mod srt, p cmt, arg mtx, sl calc, abnt lse cly, 20% SLTY SH: m to dkgy, sbblk to sbply, sft to sl frm, arg, gt tex, rthy lstr, sl calc ip, sdy ip

MD: 5,483'
TVD: 5,069.53'
Inclination: 25.27°
Azimuth: 228.65°
VS: 1,730.11'

261u
C1: 68.5%
C2: 11.7%
C3: 7.0%
C4: 12.7%

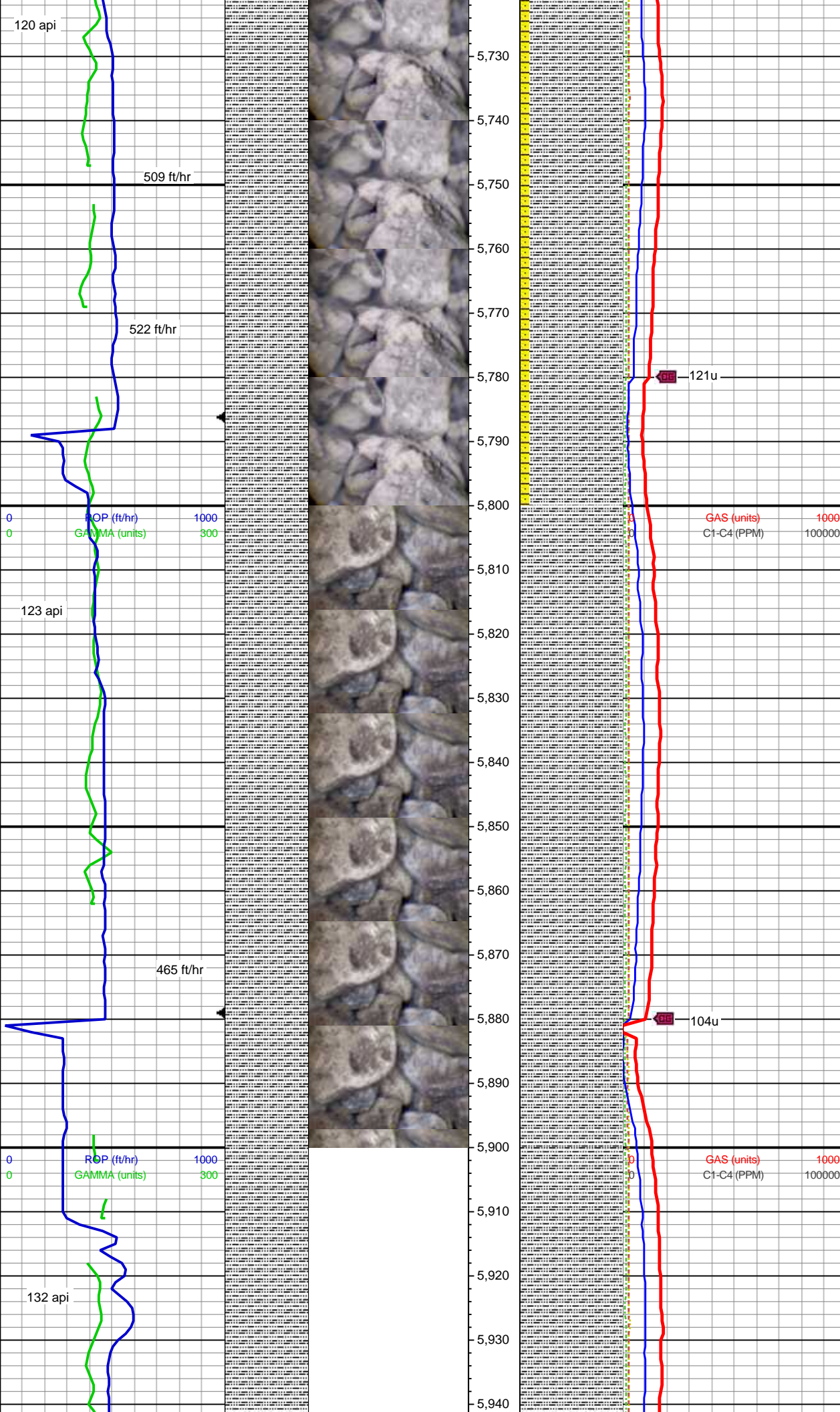


60% SHY SS: lt- med gy, vf-f gr,
sft-sl frm, sb blkly, mod srt, p cmt,
arg mtx, sl calc, abnt lse cly, 40%
SLTY SH: med to dkgy, sbblkly to
sbply, sft to sl frm, arg, gt tex, rthy
lstr, sl calc ip, sdy ip

MD: 5,576'
TVD: 5,153.78'
Inclination: 24.85°
Azimuth: 229.46°
VS: 1,764.58'

60% SLTY SH: med to dkgy,
sbbkly to sbply, sft to sl frm, arg,
gt tex, rthy lstr, sl calc ip, sdy ip
40% SHY SS: lt-med gy, vf-f gr,
sft-sl frm, sb blkly, mod srt, p cmt,
arg mtx, sl calc, abnt lse cly

MD: 5,669'
TVD: 5,238.13'
Inclination: 24.96°
Azimuth: 231.53°
VS: 1,798.36'



90% SLTY SH: med to dkgy,
sbbkly to sbply, sft to sl frm, arg,
gt tex, rthy lstr, sl calc ip, sdy ip
10% SHY SS: lt-med gy, vf-f gr,
sft-sl frm, sb blk, mod srt, p cmt,
arg mtx, sl calc, abnt lse cly

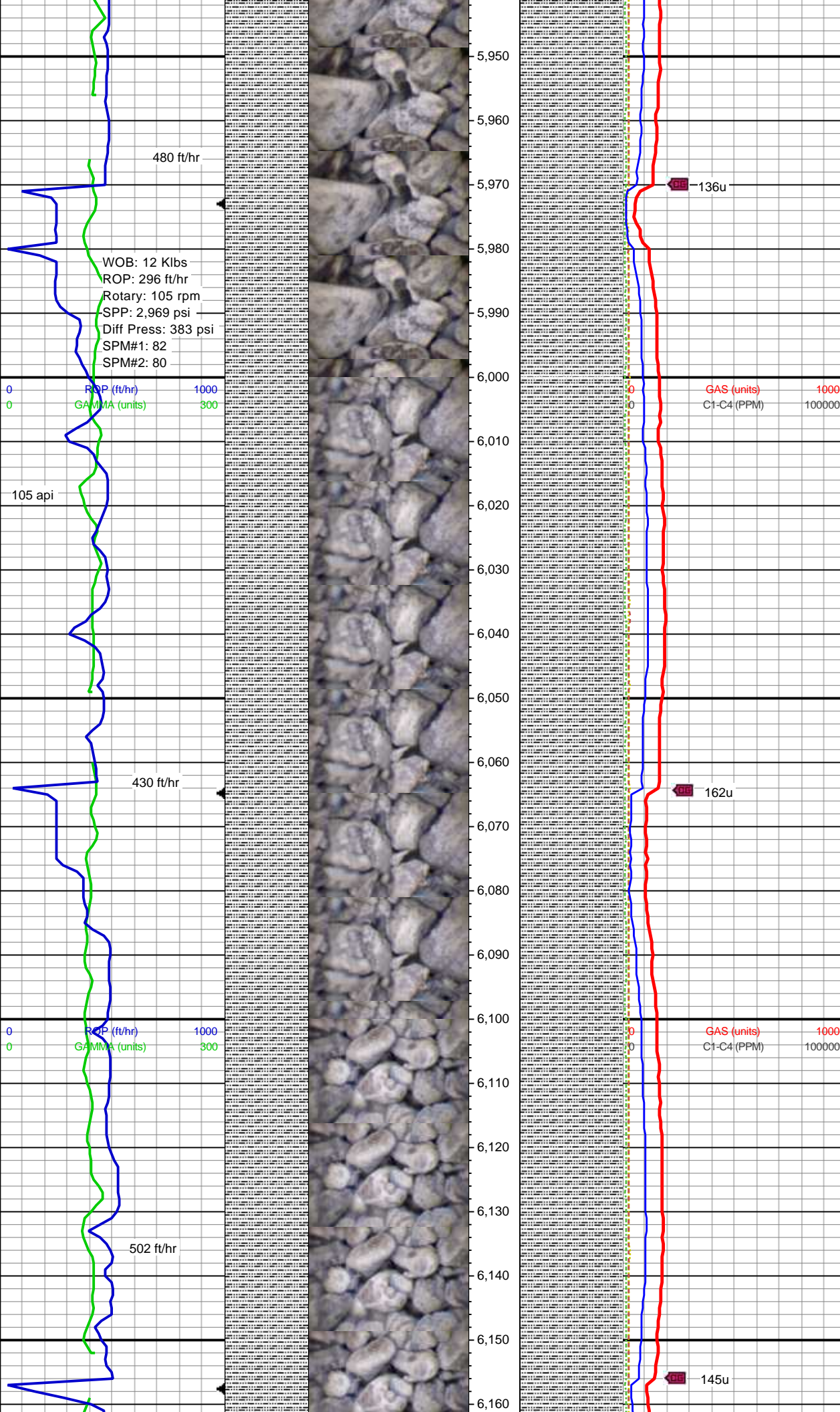
MD: 5,762'
TVD: 5,322.45'
Inclination: 24.96°
Azimuth: 234.29°
VS: 1,831.33'

IN MW 9.3 VIS 63
OUT MW 9.3 VIS 65

100% SLTY SH: med to dkgy,
sbbkly to sbply, sft to sl frm, arg,
gt tex, rthy lstr, sl calc ip, slty txt; tr
shy ss

MD: 5,855'
TVD: 5,406.77'
Inclination: 24.95°
Azimuth: 237.09°
VS: 1,863.24'

100% SLTY SH: med to dkgy,
sbbkly to sbply, sft to sl frm, arg,
gt tex, rthy lstr, sl calc ip, slty txt



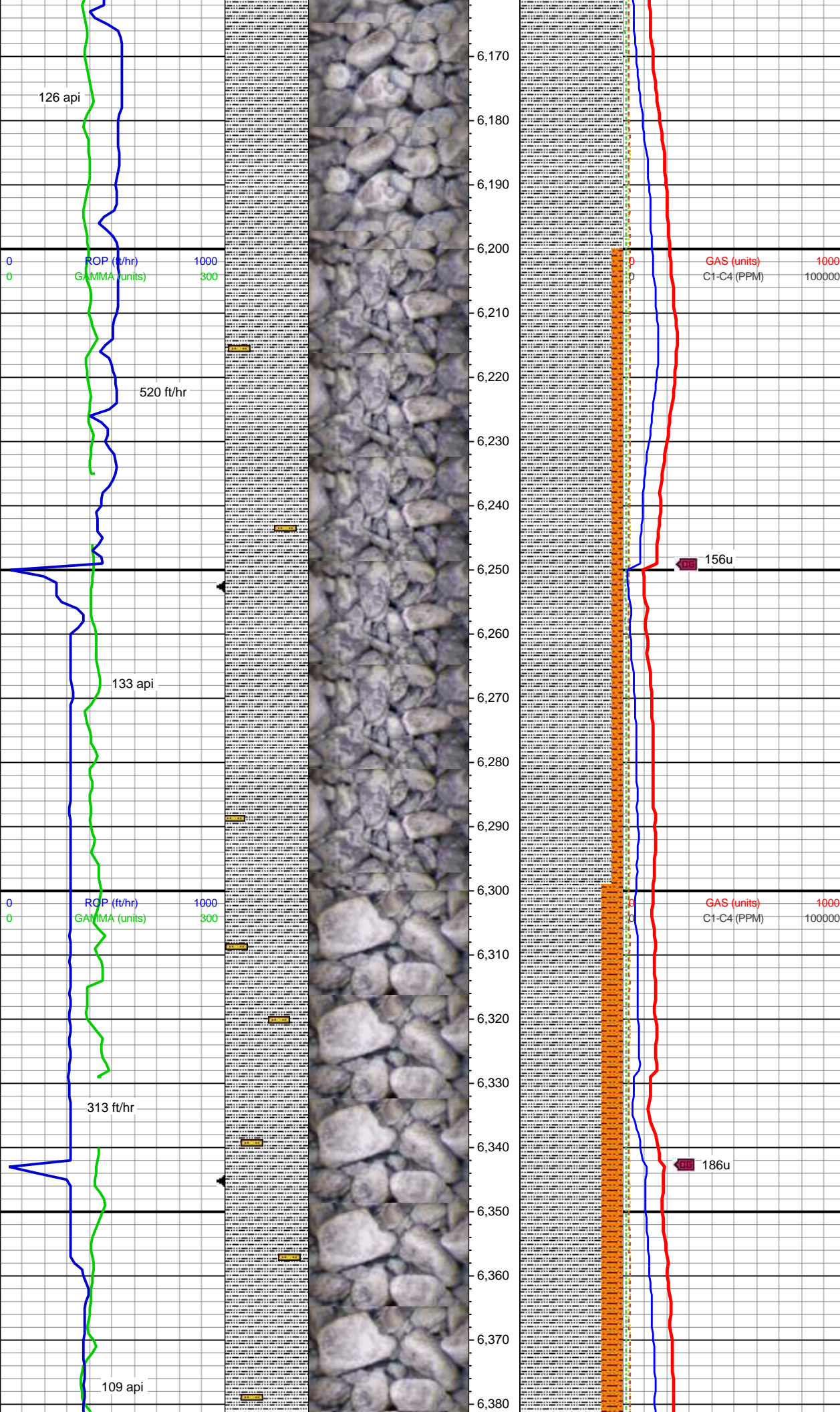
MD: 5,949'
TVD: 5,492.04'
Inclination: 24.83°
Azimuth: 239.67°
VS: 1,894.29'

MD: 6,042'
TVD: 5,576.39'
Inclination: 24.97°
Azimuth: 239.33°
VS: 1,924.55'

100% SLTY SH: med to dkgy, sbbkly to sbply, sft to sl frm, arg, gt tex, rthy lstr, sl calc ip, slty txt

MD: 6,135'
TVD: 5,660.77'
Inclination: 24.77°
Azimuth: 241.82°
VS: 1,954.31'

100% SLTY SH: med to dk gy, sb bkly to sb ply, sft to sl frm, arg, gritty tex, rthy, sl calc, slty txt



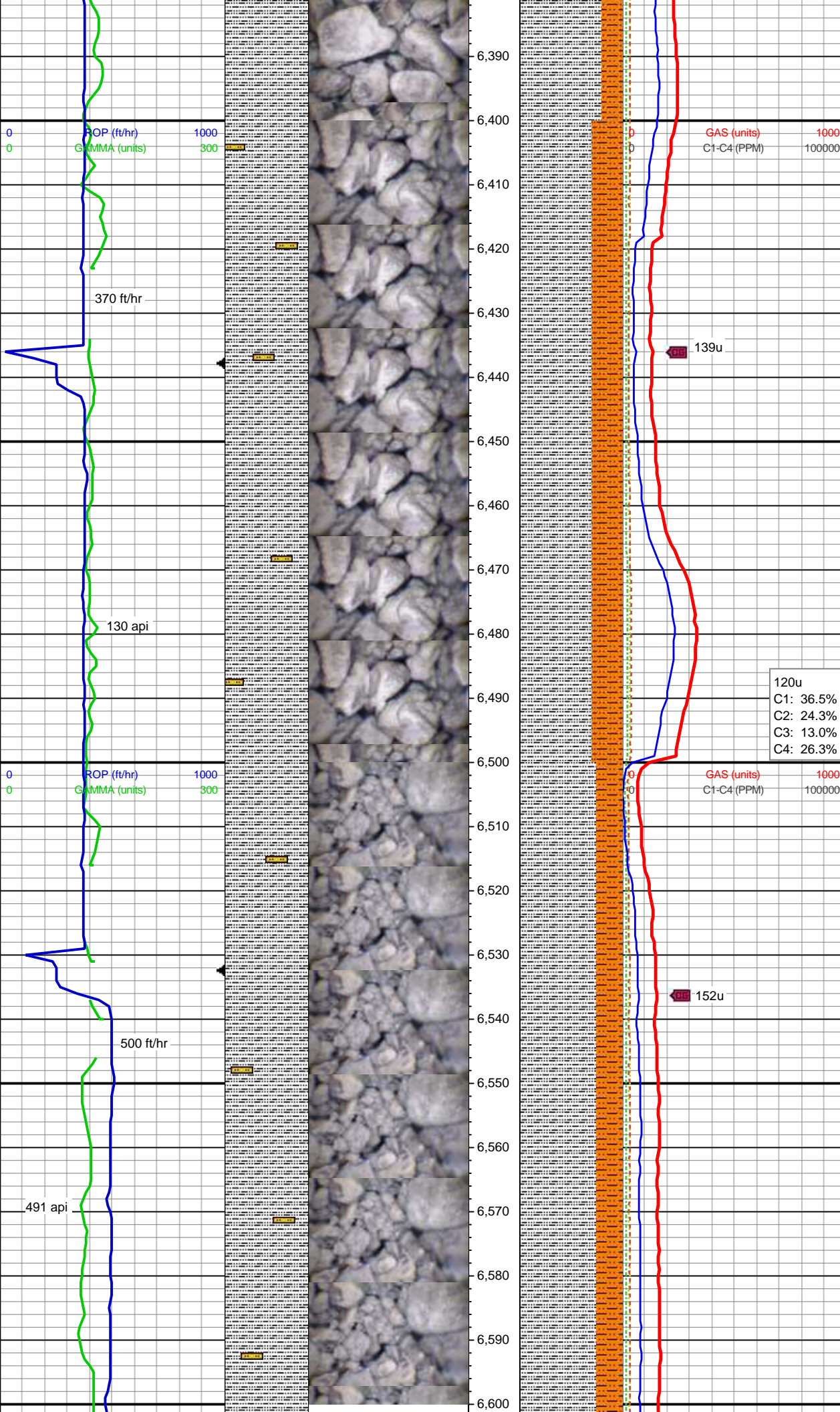
MD: 6,228'
TVD: 5,745.27'
Inclination: 24.63°
Azimuth: 247.13°
VS: 1,982.07'

90% SLTY SH: med to dk gy, sb
blky to sb plty, sl frm, arg, gritty
tex, rthy, sl calc; 10% SHY SLT: dk
gy, sb plty, frm, arg mtx

IN MW 9.3 VIS 66
OUT MW 9.45 VIS 66

MD: 6,321'
TVD: 5,829.69'
Inclination: 24.99°
Azimuth: 243.99°
VS: 2,009.44'

80% SLTY SH: med to dk gy, sb
blky to sb plty, sl frm, arg, gritty
tex, rthy, sl calc; 20% SHY SLT:
med to dk gy, sb plty to plty, frm,
arg mtx



MD: 6,415'
TVD: 5,914.85'
Inclination: 25.13°
Azimuth: 240.6°
VS: 2,038.93'

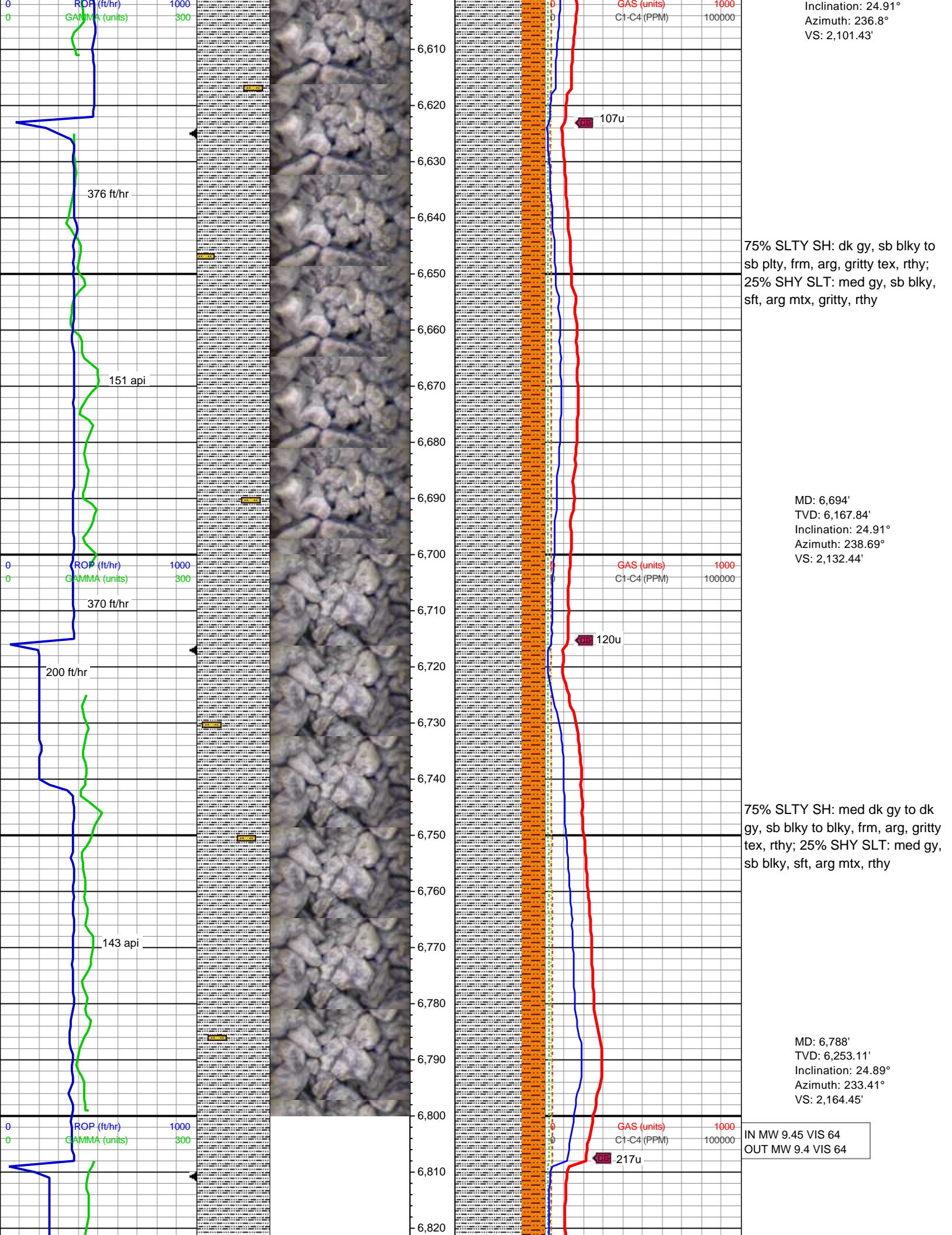
70% SLTY SH: med dk gy to med gy, sb blk, sl frm, arg, gritty tex, rthy, sl calc; 30% SHY SLT: med to dk gy, sb plty to plty, frm, arg mtx

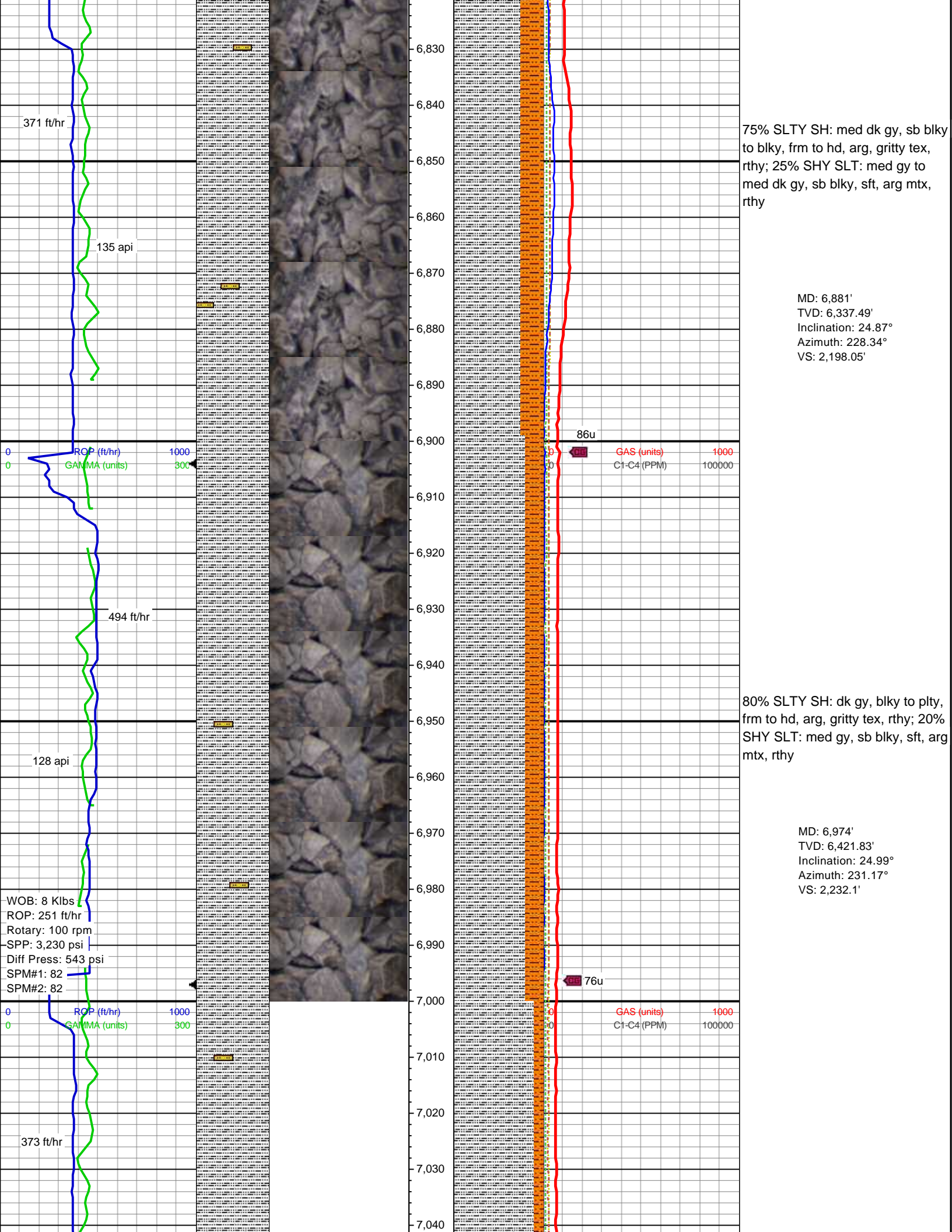
120u
C1: 36.5%
C2: 24.3%
C3: 13.0%
C4: 26.3%

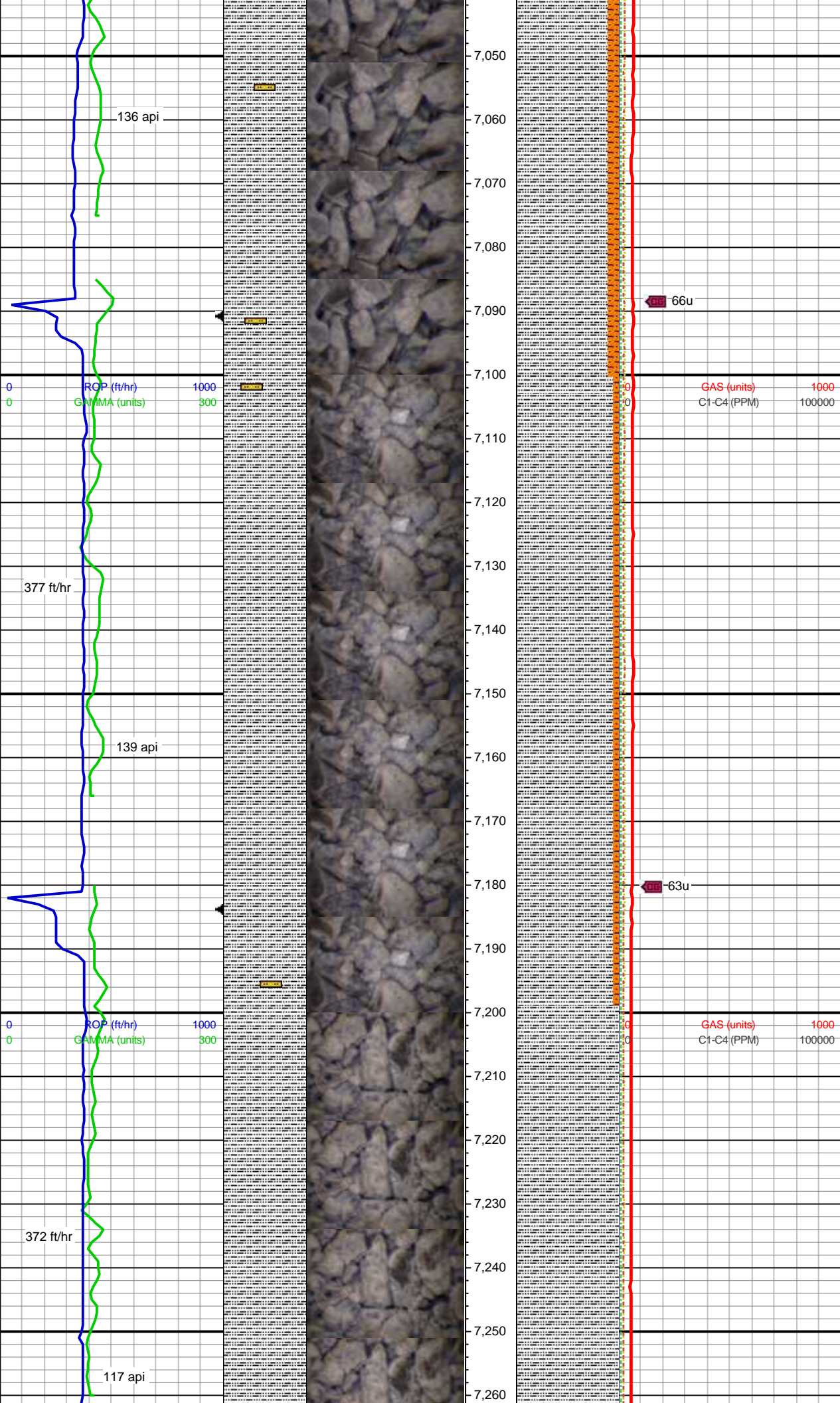
MD: 6,508'
TVD: 5,999.14'
Inclination: 24.9°
Azimuth: 235.89°
VS: 2,069.84'

75% SLTY SH: dk gy to med gy, sb blk, sl frm, arg, gritty tex, rthy; 25% SHY SLT: med gy, sb plty to plty, frm, arg mtx

MD: 6,601'
TVD: 6,083.49'







90% SLTY SH: dk gy to med dk gy, plty, hd, arg, gritty tex, rthy; 10% SHY SLT: med gy, sb blkly to blkly, sft, arg mtx, rthy

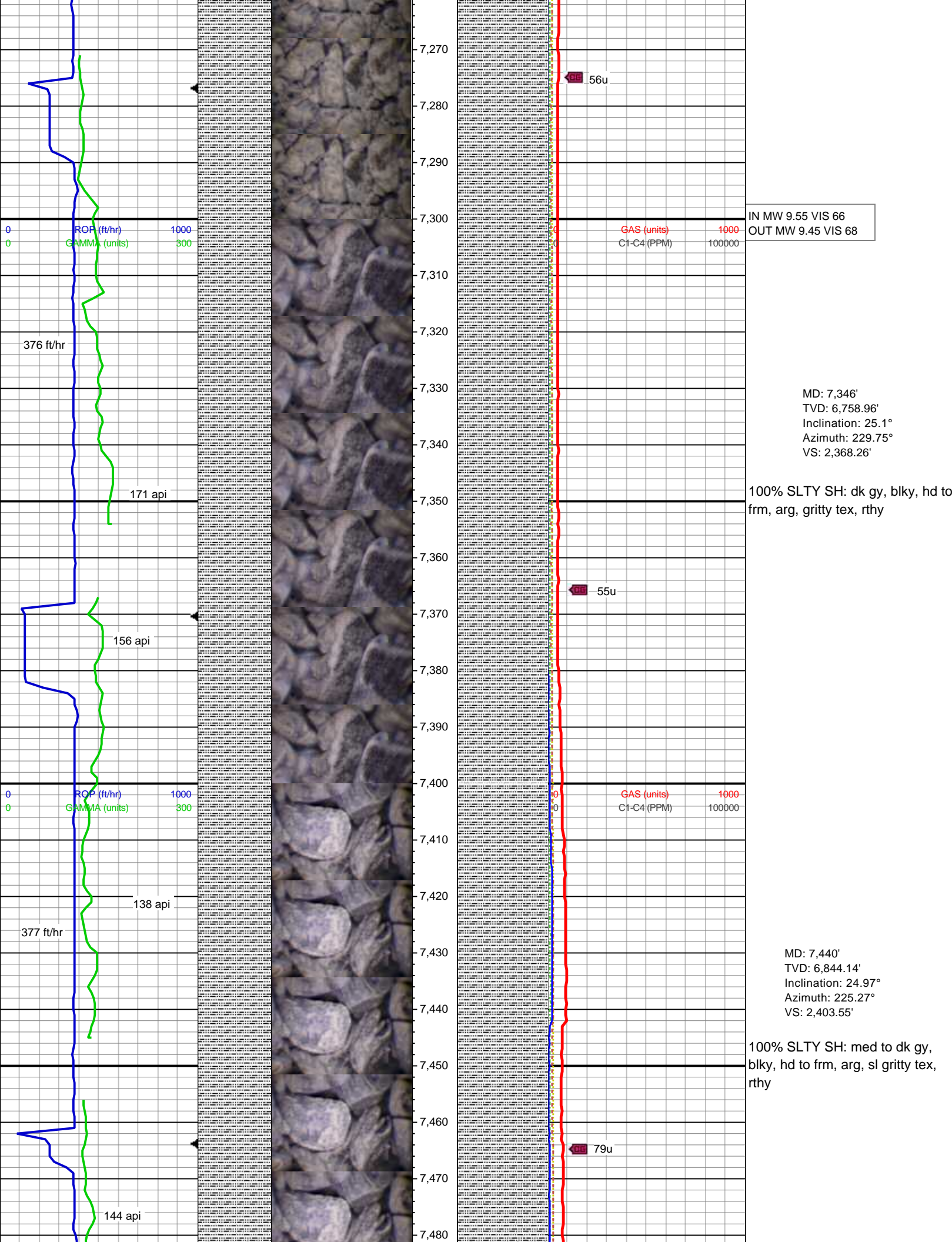
MD: 7,067'
TVD: 6,506.1'
Inclination: 25.06°
Azimuth: 231.16°
VS: 2,265.81'

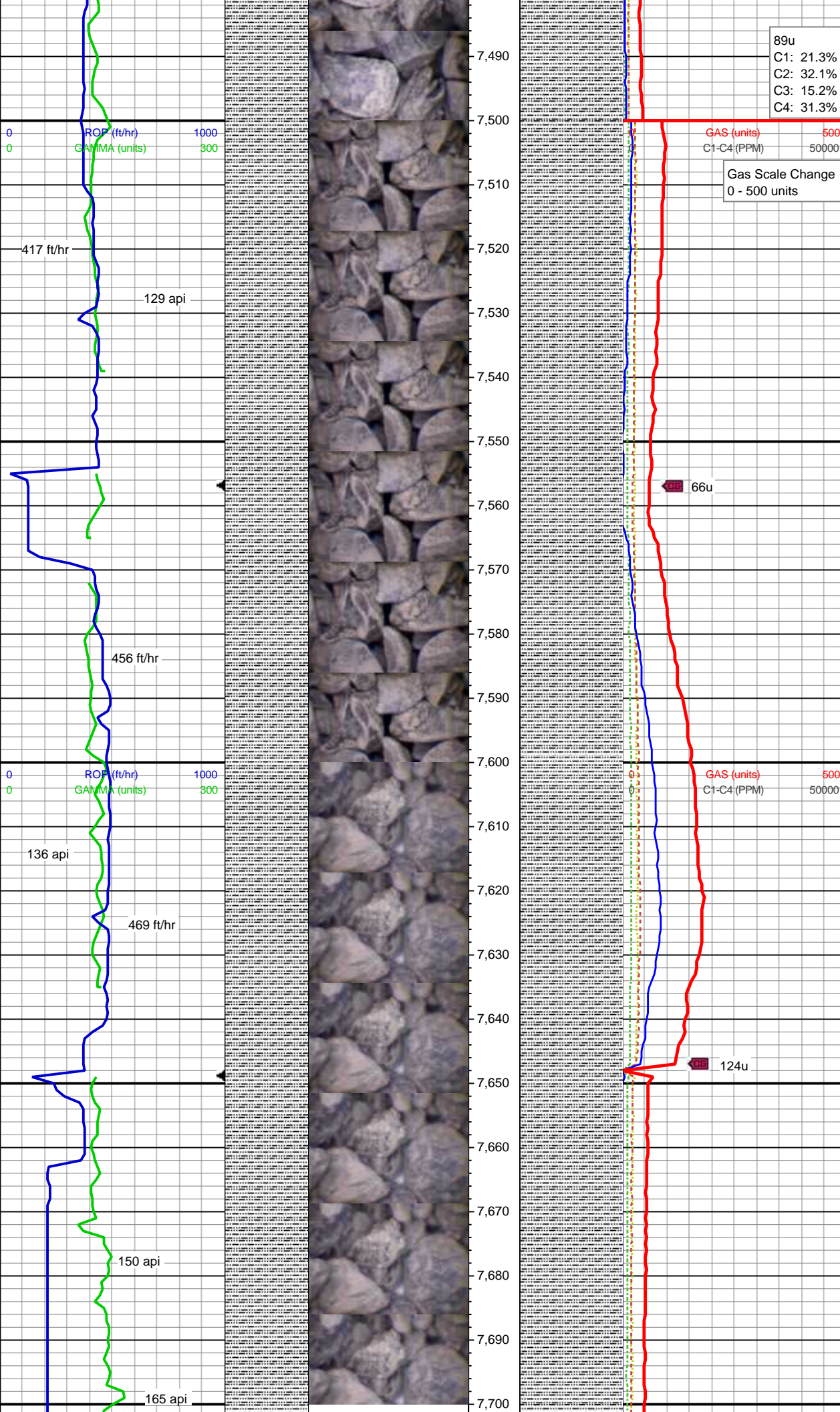
95% SLTY SH: dk gy, sb blkly to plty, hd, arg, gritty tex, rthy; 5% SHY SLT: med gy, sb blkly to blkly, sft, arg mtx, rthy

MD: 7,160'
TVD: 6,590.38'
Inclination: 24.95°
Azimuth: 228.84°
VS: 2,299.88'

100% SLTY SH: med dk gy to dk gy, blkly to sb ang, hd to frm, arg, gritty tex, rthy, non calc

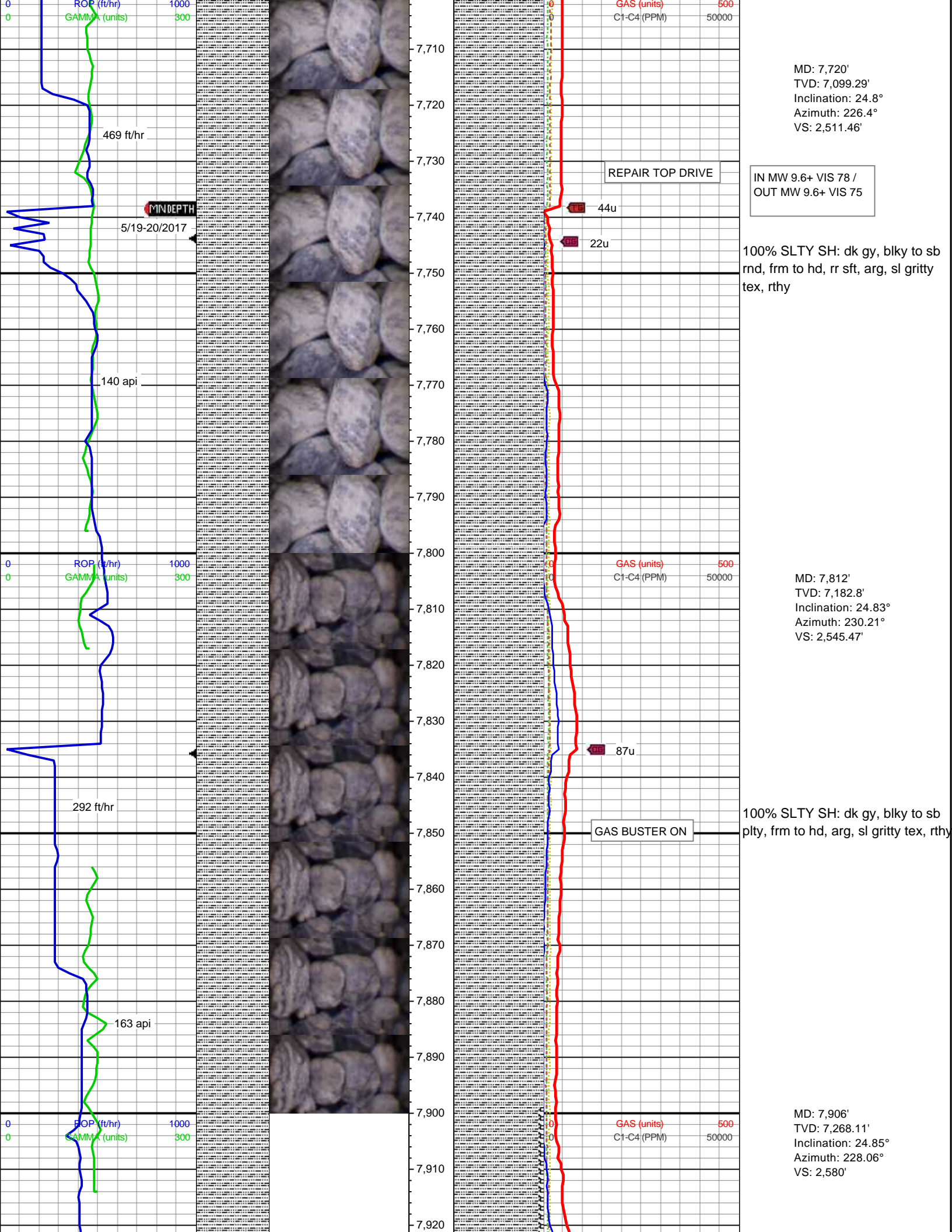
MD: 7,253'
TVD: 6,674.7'
Inclination: 24.96°
Azimuth: 229.97°
VS: 2,334.1'

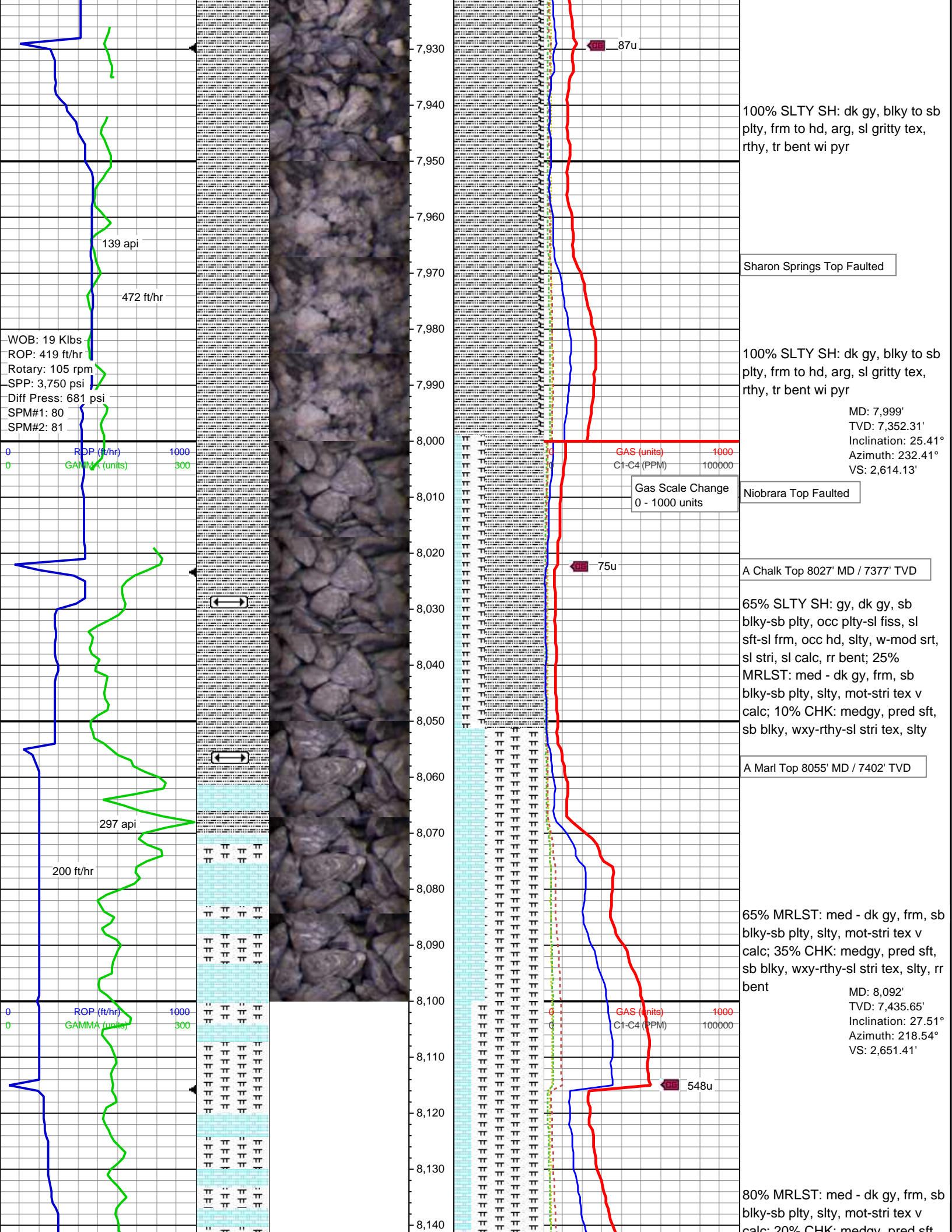


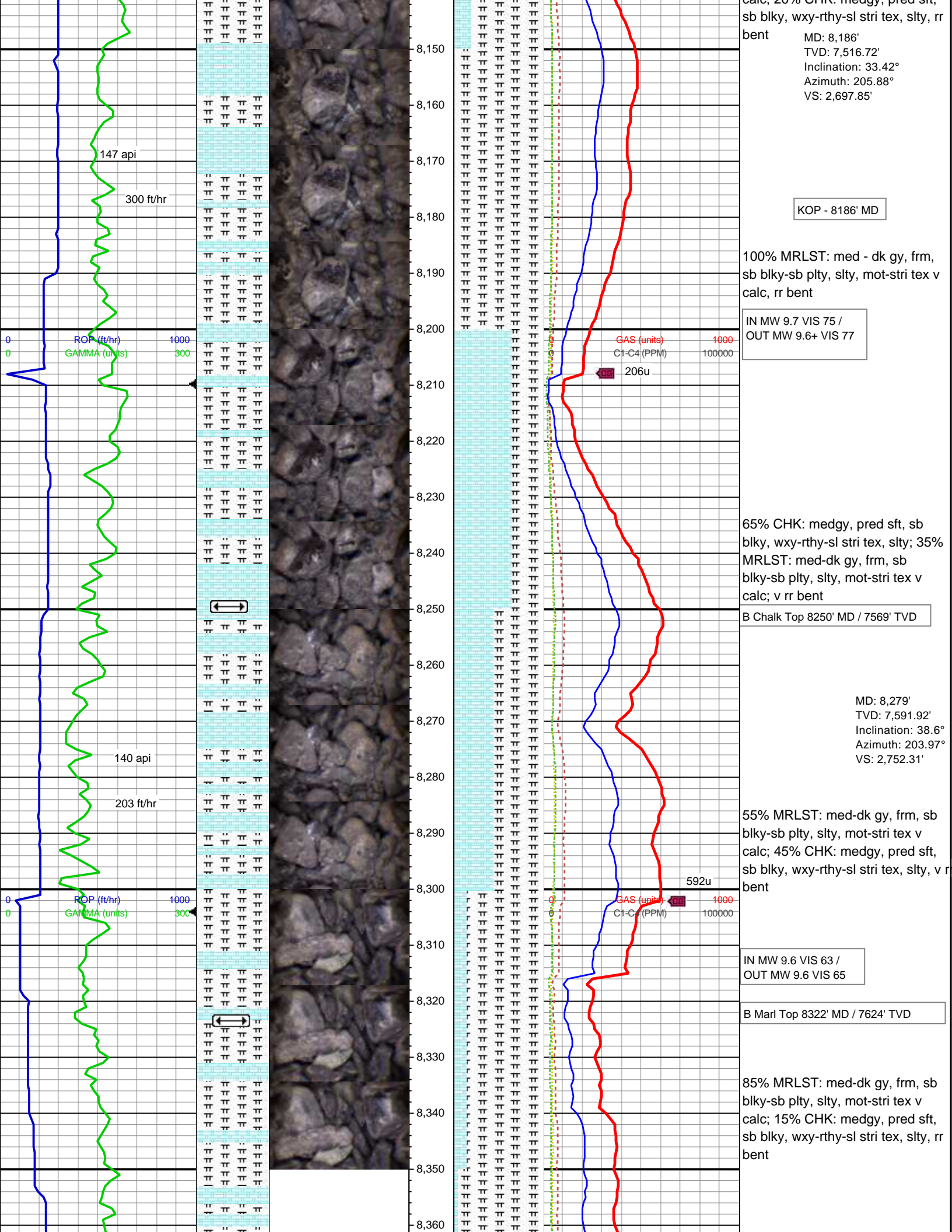


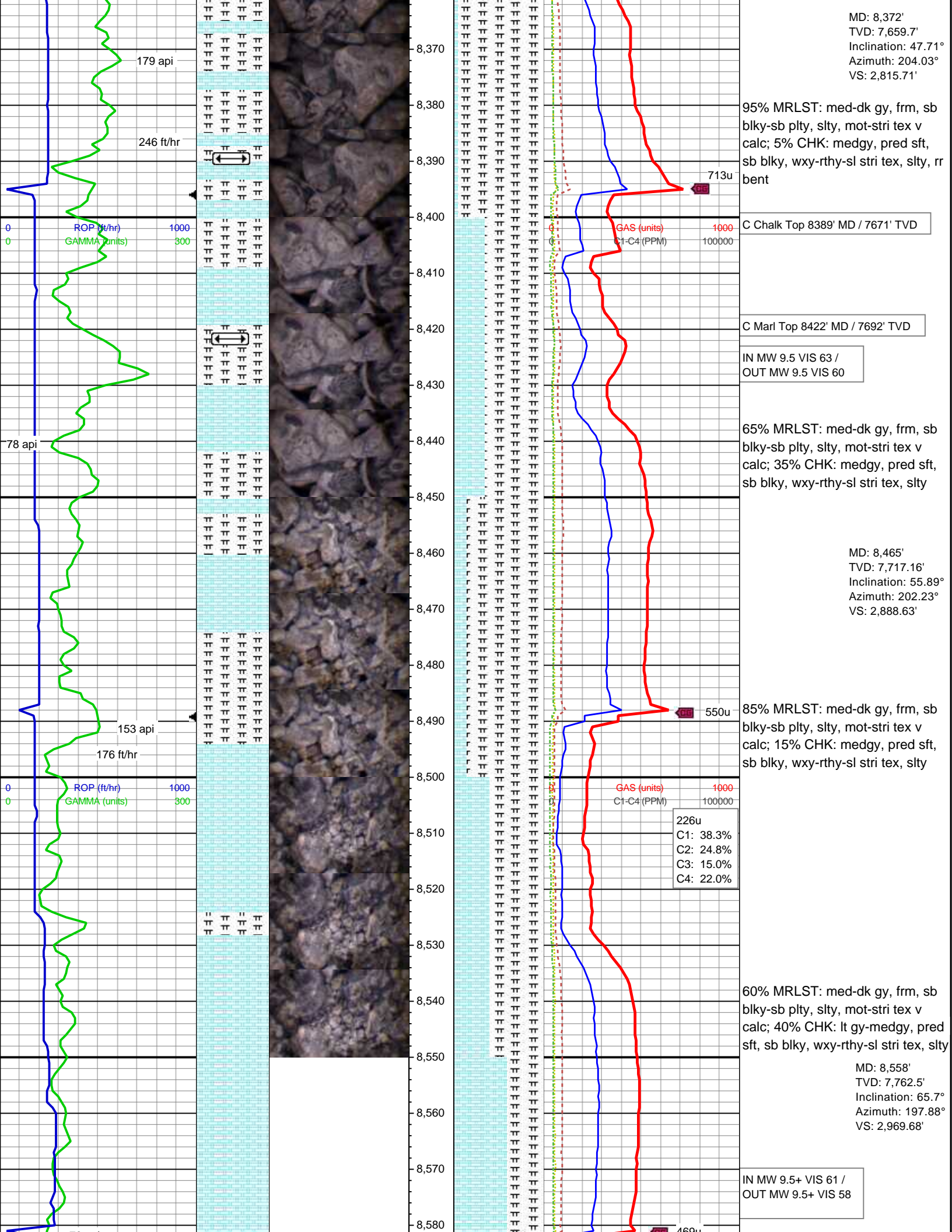
100% SLTY SH: med dk to dk gy, blkly to sb rnd, frm to sft, arg, sl gritty tex, rthy

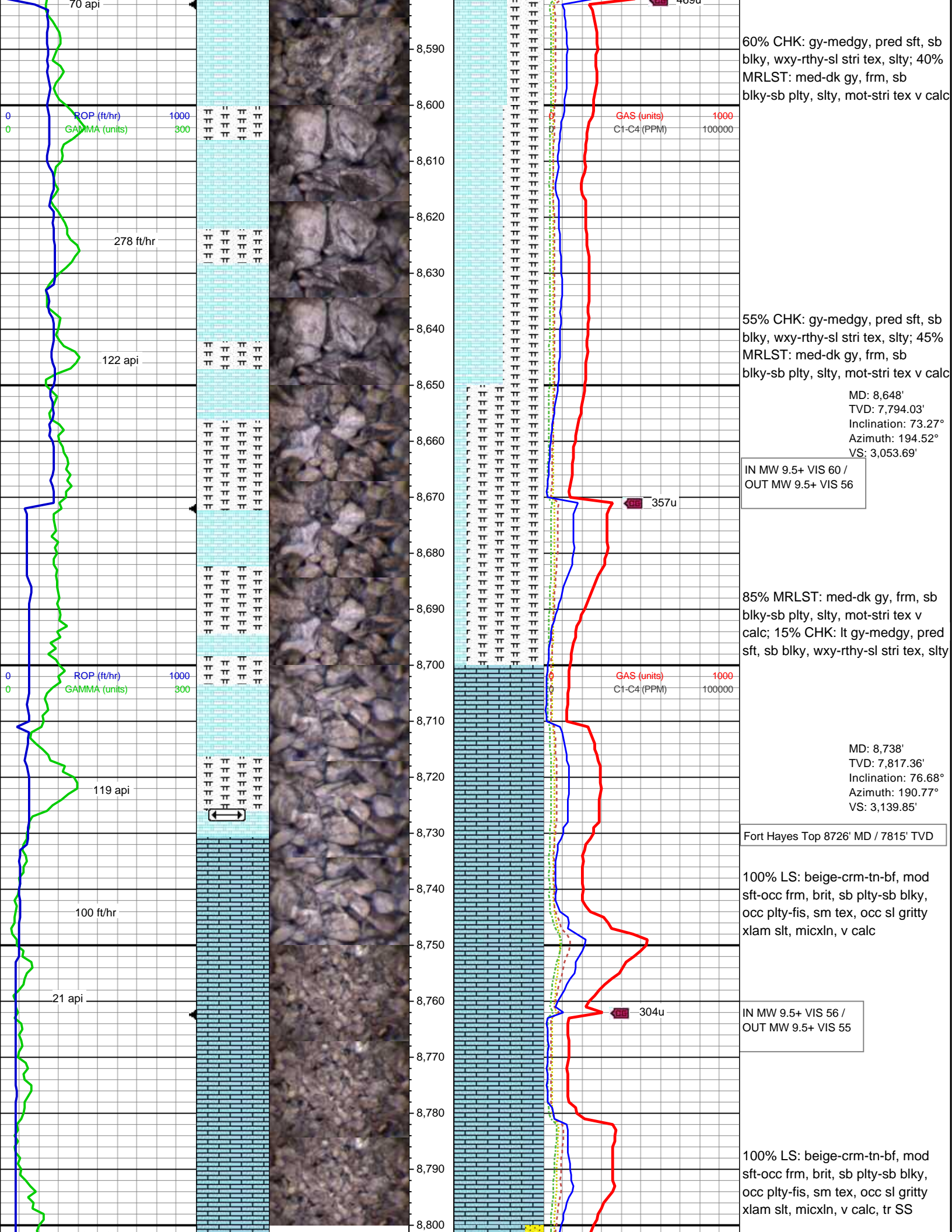
100% SLTY SH: med dk gy, blkly to sb plty, frm to sft, arg, sl gritty tex, rthy

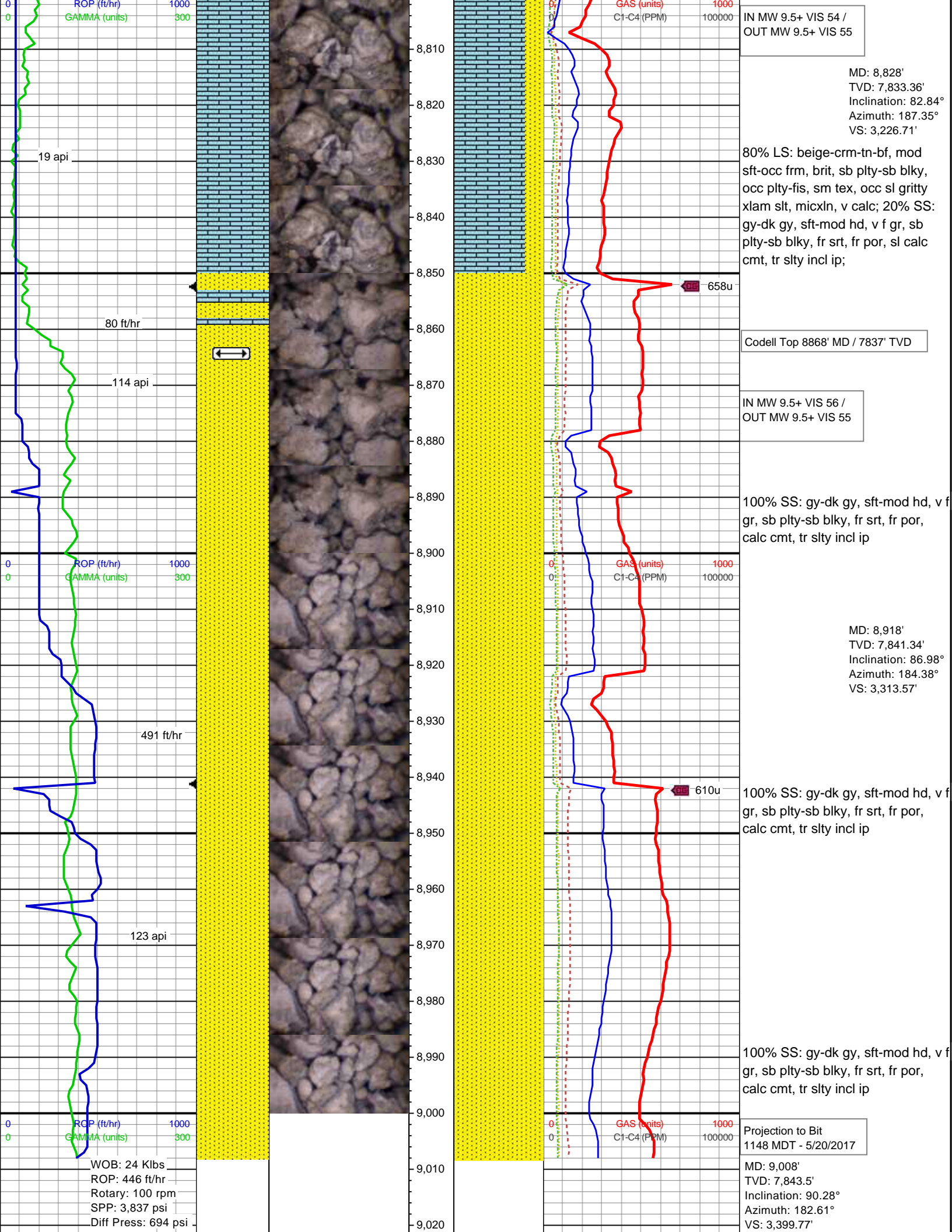












SPM#1: 82
SPM#2: 81

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