

# MBC WELL LOGGING LLC

Scale 1:240 (5"=100') Imperial

Well Name: KU-B3 OXY-USA  
 Location: STANTON COUNTY, KANSAS USA  
 Licence Number: 5447  
 Spud Date: 9-7-2012  
 Surface Coordinates: 2,060 FSL, 2,020 FEL SEC 17 T-29S-R41W  
 CO-REP  
 Bottom Hole: HLS-DIL/SP/GR CNL/CAL/PE/BHV SONIC SFC  
 Coordinates: API-15-187-21208-00 AZTEC WELL SERVICING # 34660  
 Ground Elevation (ft): 3411' K.B. Elevation (ft): 3425'  
 Logged Interval (ft): 3600 To: 5850 Total Depth (ft): 5850  
 Formation: ST LOUIS  
 Type of Drilling Fluid: MI DRILLING FLUIDS Kyle Heaton ENGINEER

Region:

Drilling Completed: 9-12-2012

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

## OPERATOR

Company: OCCIDENTAL OIL & GAS CORP.  
 Address: DANIEL PRATT % -GEOLOGY  
 5 E GREENWAY PLAZA ste 110  
 HOUSTON, TEXAS 77046

## MUDLOGGER

Name: Brian Rice  
 Company: MBC WELL LOGGING LLC  
 Address: 21156 RD 22  
 MEADE, KANSAS 67864

## ROCK TYPES

|  |              |  |               |  |              |  |                 |  |               |
|--|--------------|--|---------------|--|--------------|--|-----------------|--|---------------|
|  | Anhy         |  | Ls & ooids    |  | Sltst        |  | Ss              |  | Sndy-ls-1     |
|  | Brec         |  | Oolitic ls -1 |  | Salt         |  | Grn sh strk     |  | Calc shale    |
|  | Cht          |  | Stgensndy-1   |  | Sndy sh--reg |  | Lmy sh-2        |  | Granitewash   |
|  | Coal         |  | New ls-1      |  | Sndy sh      |  | Grn mott gy     |  | Ls shly-b     |
|  | Congl        |  | Carby shale   |  | Sltst-1      |  | Shale-1         |  | Poor sortd ss |
|  | New dolomite |  | Lmy carby     |  | Sltly-shale  |  | Red sh-1        |  | Snd-ls-sh     |
|  | Dolo new     |  | Carb sh       |  | Lmy ss-1     |  | Stgensndy-arkos |  |               |
|  | Newdolo ls   |  | Gyp           |  | Arkosic snd  |  | Sndy ool ls     |  |               |

# ACCESSORIES

## LITHOLOGY

|  |                 |
|--|-----------------|
|  | Anhy            |
|  | Brec            |
|  | Cht             |
|  | Coal            |
|  | Congl           |
|  | New dolomite    |
|  | Dolo new        |
|  | Newdolo ls 2    |
|  | Ls & ooids      |
|  | Oolitic ls -1   |
|  | Stgensndy-arkos |
|  | New ls-1        |
|  | Carby shale     |
|  | Lmy carby sh-3  |
|  | Carb sh         |
|  | Gyp             |
|  | Sltst           |
|  | Salt            |
|  | Sndy sh--red    |
|  | Sndy sh         |
|  | Sltst-1         |
|  | Sltly-shale     |
|  | Lmy ss-1        |
|  | Arkosic snd     |
|  | Ss              |
|  | Grn sh strk     |

|  |                 |
|--|-----------------|
|  | Lmy sh-2        |
|  | Grn mott gy sh  |
|  | Shale-1         |
|  | Red sh-1        |
|  | Stgensndy-arkos |
|  | Sndy ool ls     |
|  | Sndy-ls-1       |
|  | Calc shale      |
|  | Granitewash     |
|  | Ls shly-b       |
|  | Poor sortd ss   |
|  | Snd-ls-sh       |

## FOSSIL

|  |         |
|--|---------|
|  | Algae   |
|  | Amph    |
|  | Belm    |
|  | Bioclst |
|  | Brach   |
|  | Bryozoa |
|  | Cephal  |
|  | Coral   |
|  | Crin    |
|  | Echin   |
|  | Fish    |
|  | Foram   |
|  | Fossil  |

|  |          |
|--|----------|
|  | Gastro   |
|  | Oolite   |
|  | Ostra    |
|  | Pelec    |
|  | Pellet   |
|  | Pisolite |
|  | Plant    |
|  | Strom    |

## MINERAL

|  |                  |
|--|------------------|
|  | Anhy             |
|  | Arggrn           |
|  | Arg              |
|  | Bent             |
|  | Bit              |
|  | Brecfrag         |
|  | Calc             |
|  | Carb             |
|  | Chtdk            |
|  | Chtlt            |
|  | New dolostringer |
|  | Dol              |
|  | Fldspr-1         |
|  | Ferrpel          |
|  | Ferr             |
|  | Glau             |
|  | Gyp              |

|  |             |
|--|-------------|
|  | Hvymin      |
|  | Kaol        |
|  | Marl        |
|  | Minxl       |
|  | Nodule      |
|  | Phos        |
|  | Pyr         |
|  | Qtz         |
|  | New symbol  |
|  | Salt        |
|  | Sandy       |
|  | Silt        |
|  | Sil         |
|  | Sulphur     |
|  | Tuff        |
|  | Styolitic   |
|  | Slickenside |

## STRINGER

|  |                 |
|--|-----------------|
|  | Anhy            |
|  | Red sh stringer |
|  | Arg             |
|  | Bent            |
|  | Coal            |
|  | Dol             |
|  | Gyp             |
|  | Oolls-1         |

|  |             |
|--|-------------|
|  | Ls          |
|  | Mrst        |
|  | Sltstrg     |
|  | Ssstg       |
|  | Grn sh strk |

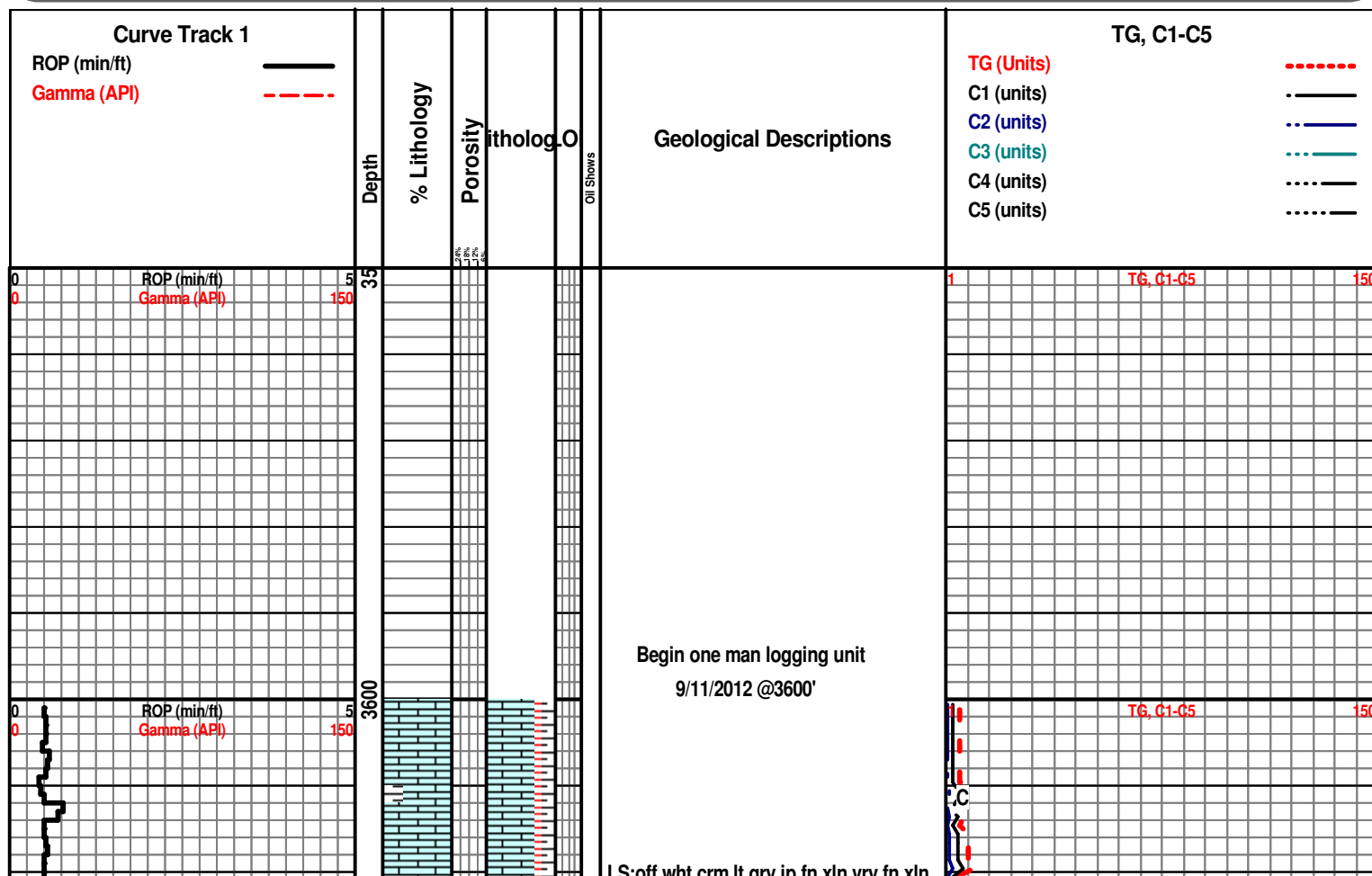
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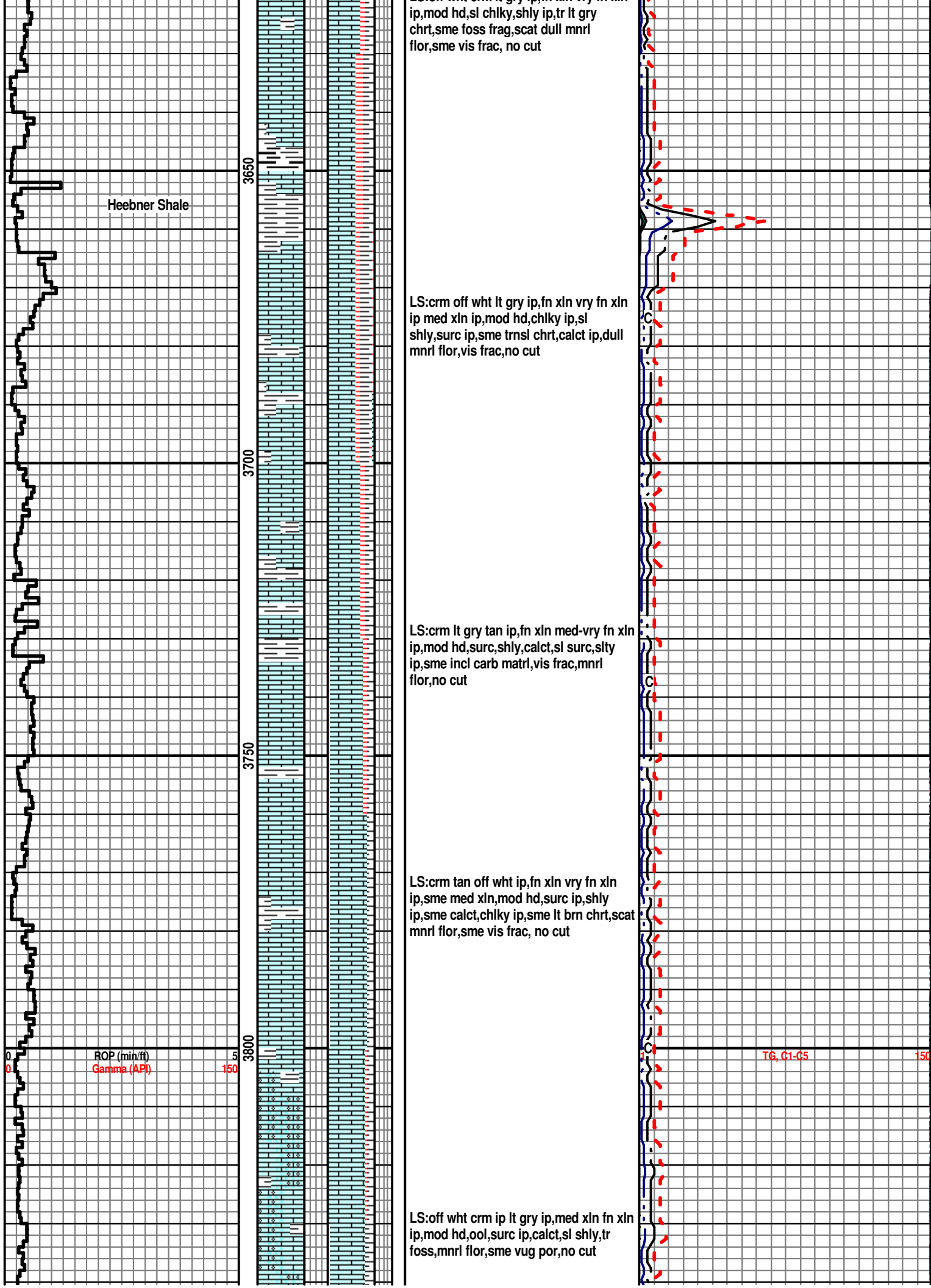
|  |          |
|--|----------|
|  | Boundst  |
|  | Chalky   |
|  | Cryxln   |
|  | Earthy   |
|  | Finexln  |
|  | Grainst  |
|  | Lithogr  |
|  | Microxln |
|  | Mudst    |
|  | Packst   |
|  | Wackest  |

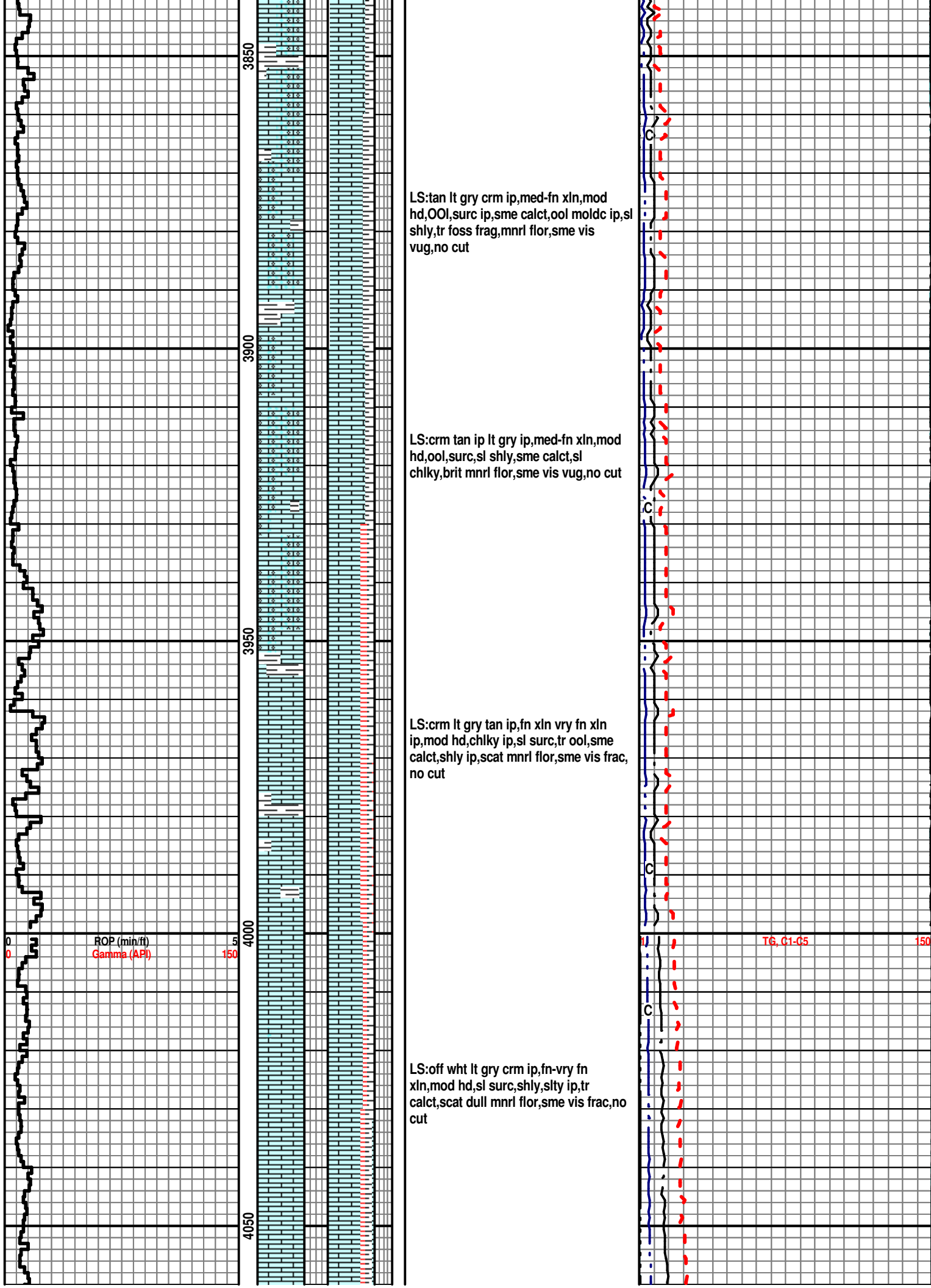
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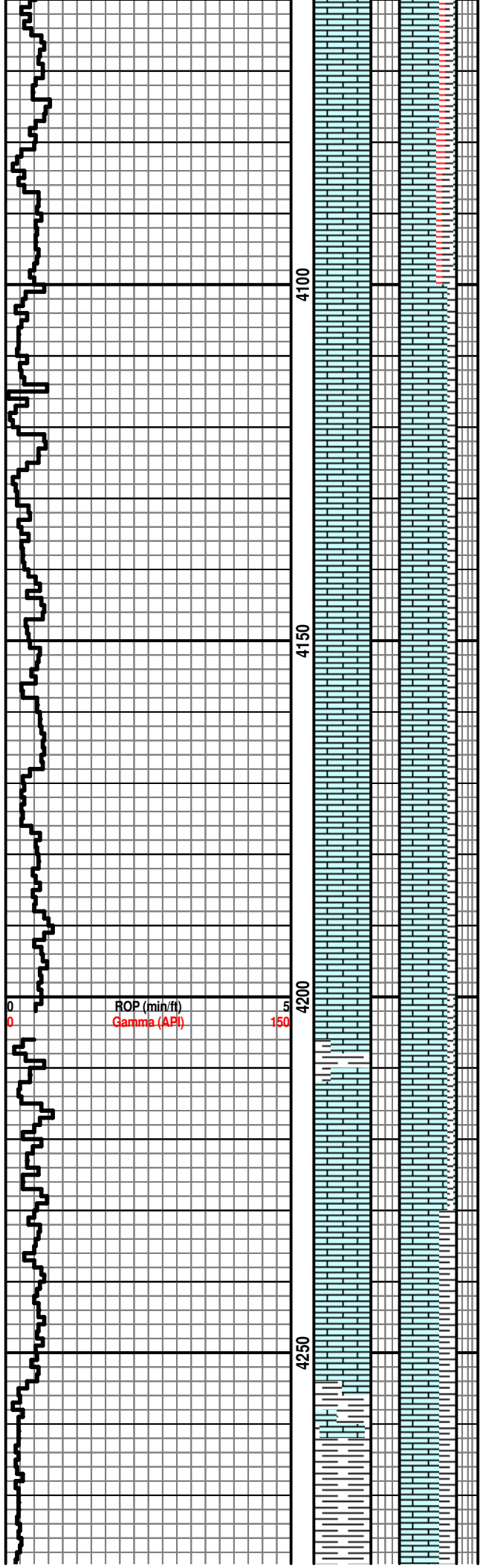
|  |         |
|--|---------|
|  | Even    |
|  | Spotted |
|  | Ques    |
|  | Dead    |

# Comments







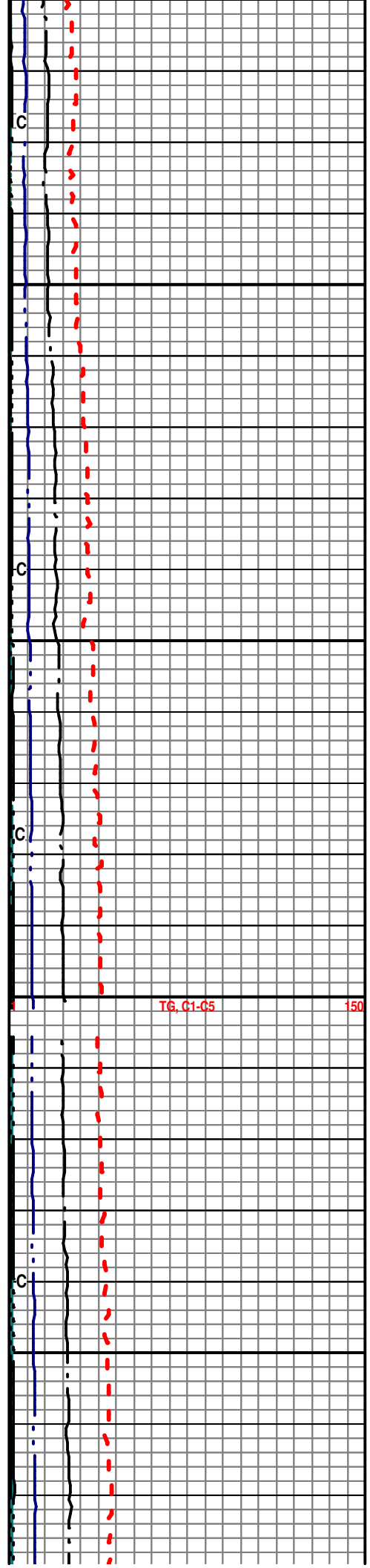


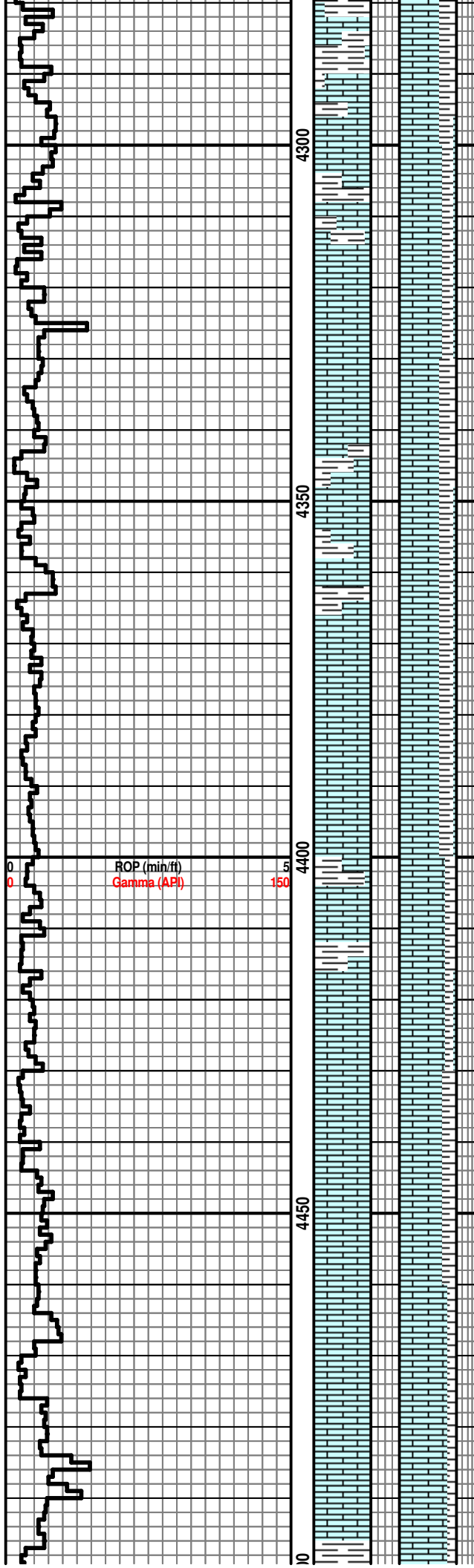
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LS:off wht lt gry tan ip,fn xln vry fn xln  
ip,mod hd,sl surc,sl chlky,sme foss  
frag,shly ip,tr calct,tr pyr,scat dull mnrl  
flor,sme vis frac,no cut

LS:tan crm lt gry ip,fn xln med xln  
ip,mod hd,ool ip,ool clstc,surc ip,sme  
calct,shly,scat pyr,shly ip,scat mnrl  
flor,sme vis vug,no cut

LS:lt gry tan ip crm ip,vry fn xln fn xln  
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vis frac,no cut





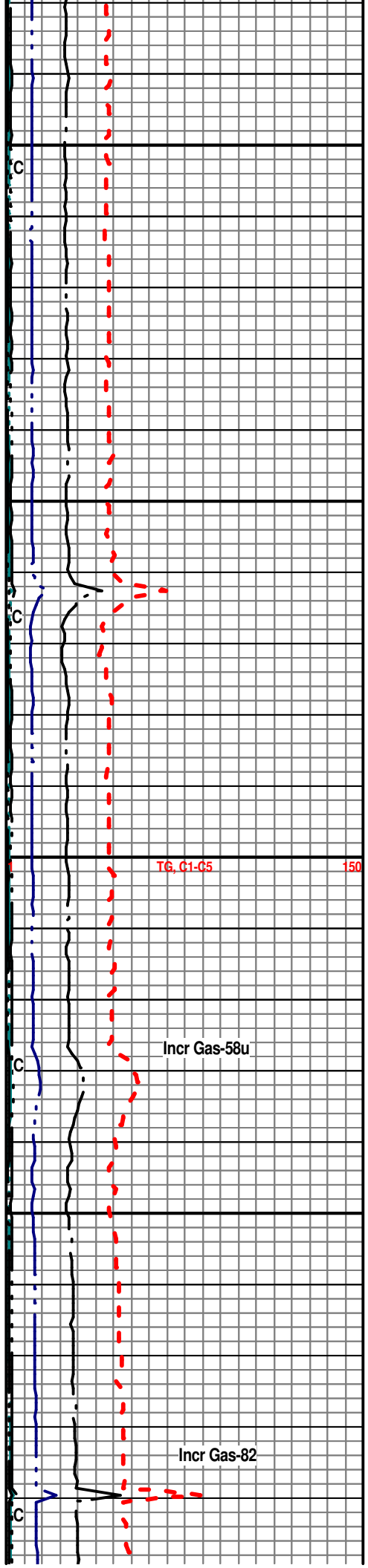
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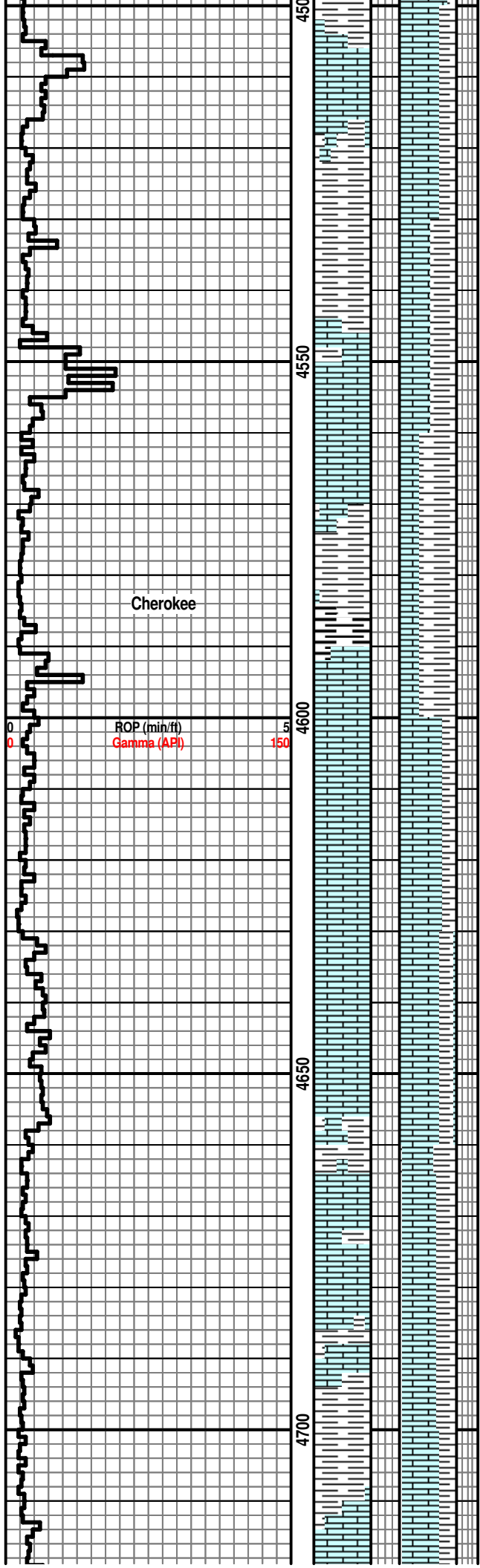
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LS:crm tan lt gry ip,fn xln vry fn xln ip sme med xln,mod hd,surc ip,sme calct,shly,tr brn chrt,scat dull mnrl flr,sme vis frac,no cut



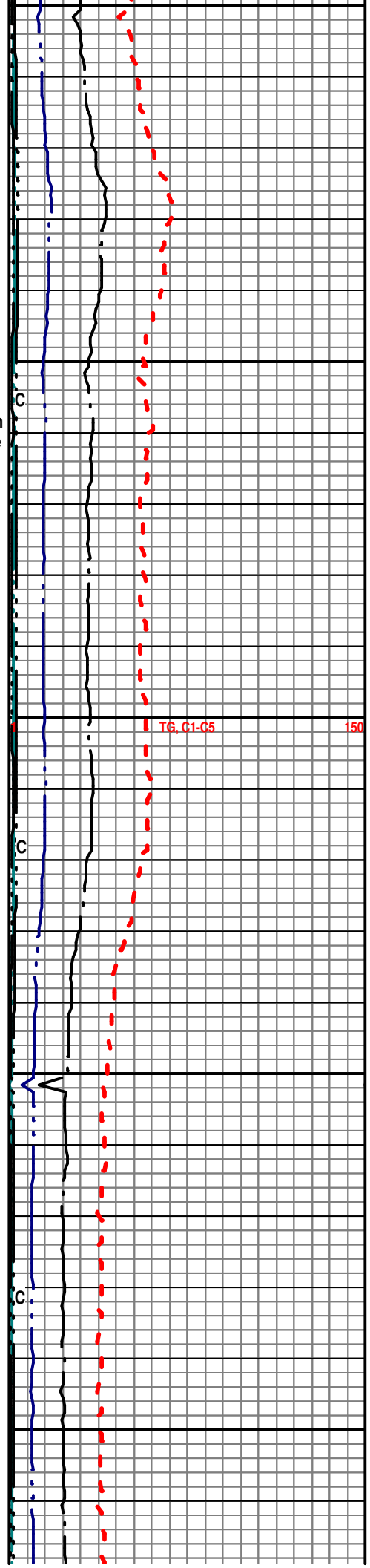


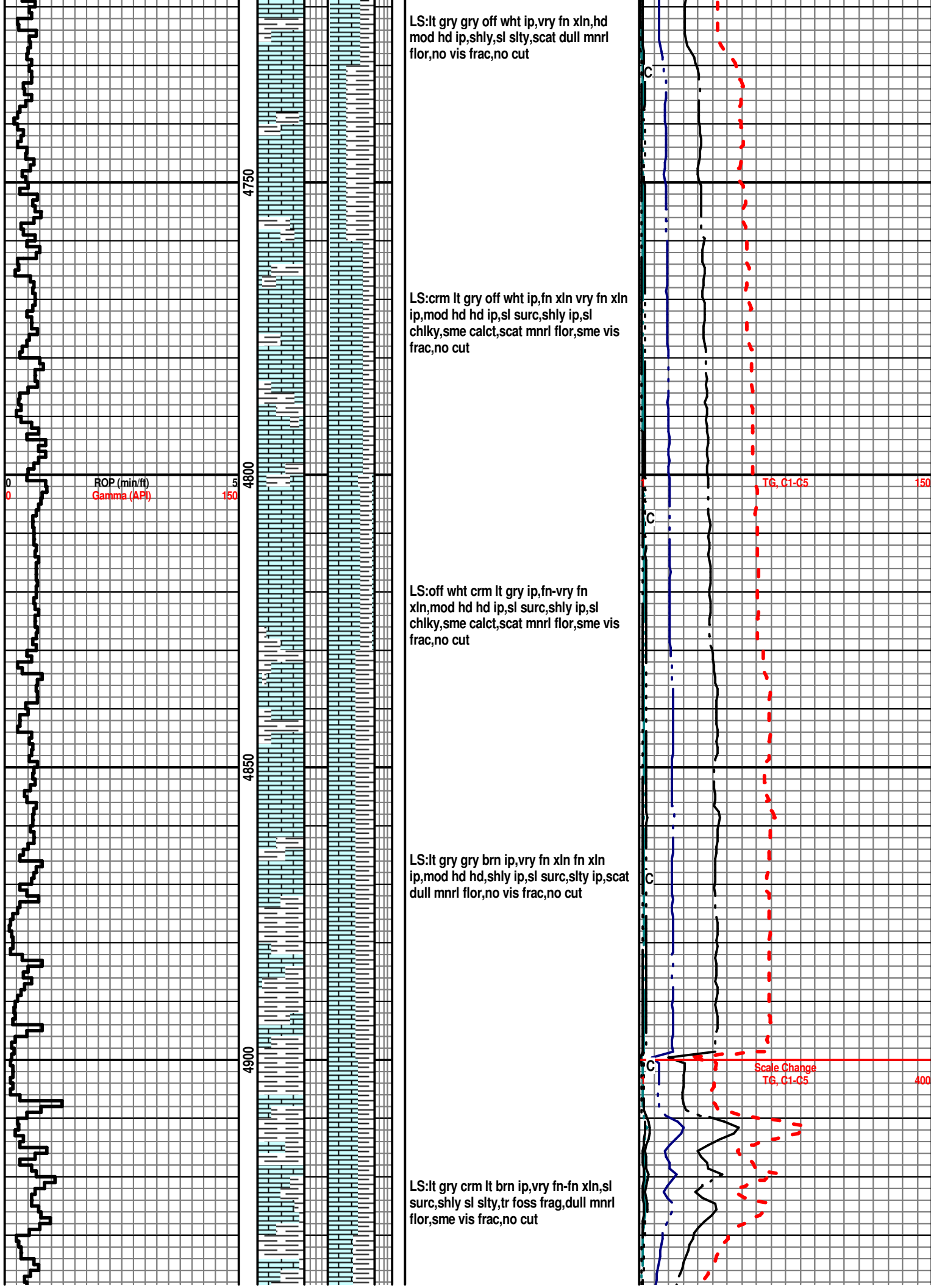
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no cut

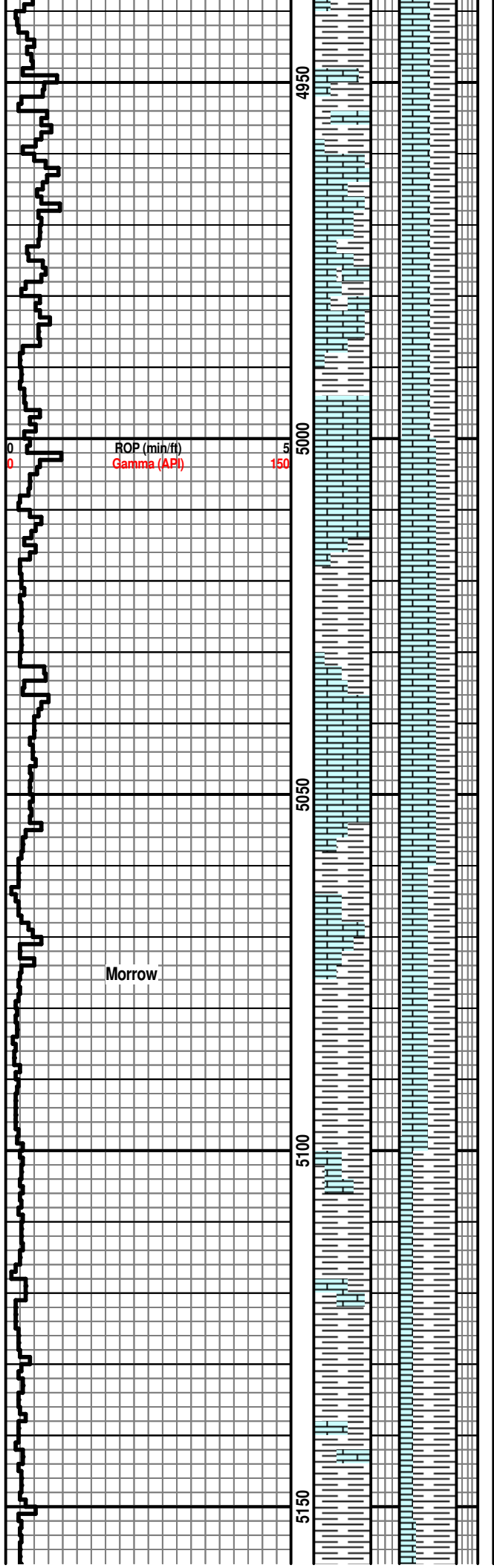
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cut

LS:lt gry crm off wht ip,fn-vry fn  
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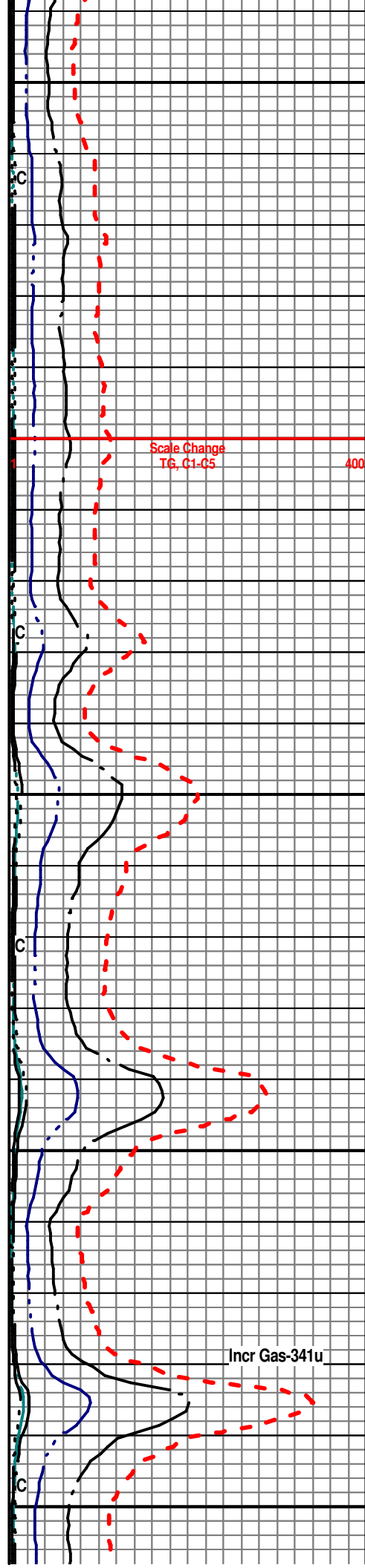
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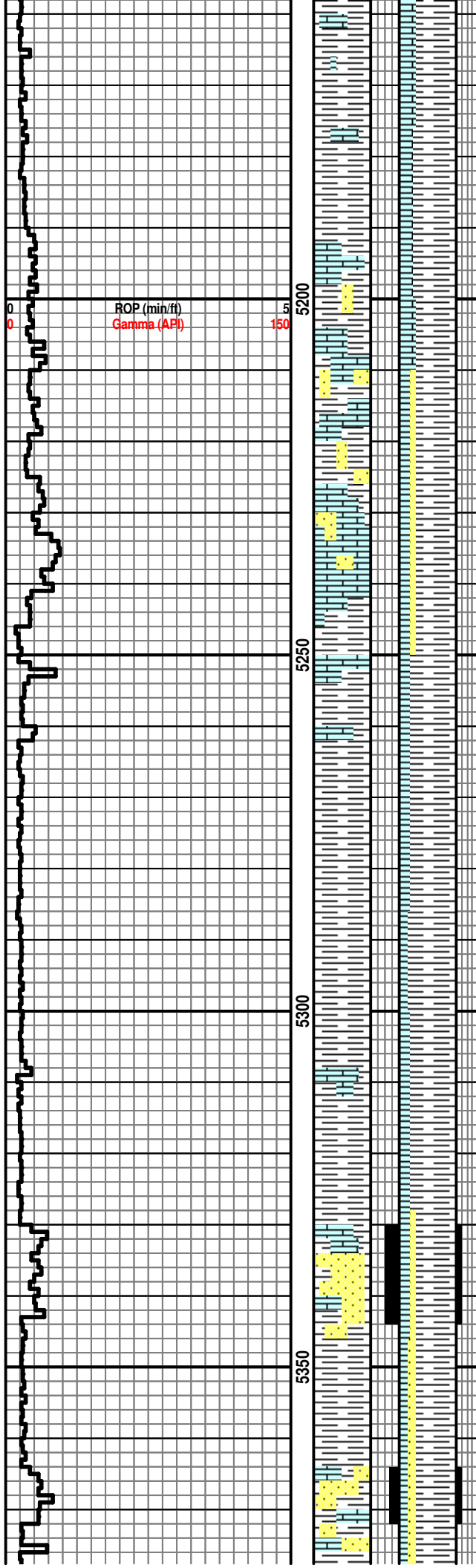






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hd, sl surc, shly, sl slty, scat dull mnrl  
flor, no vis frac, no cut



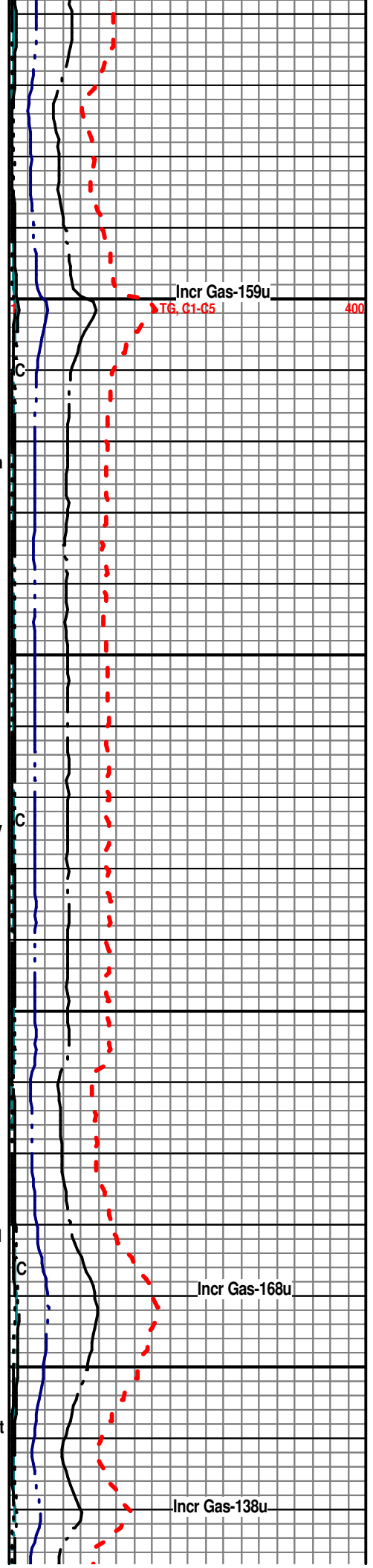


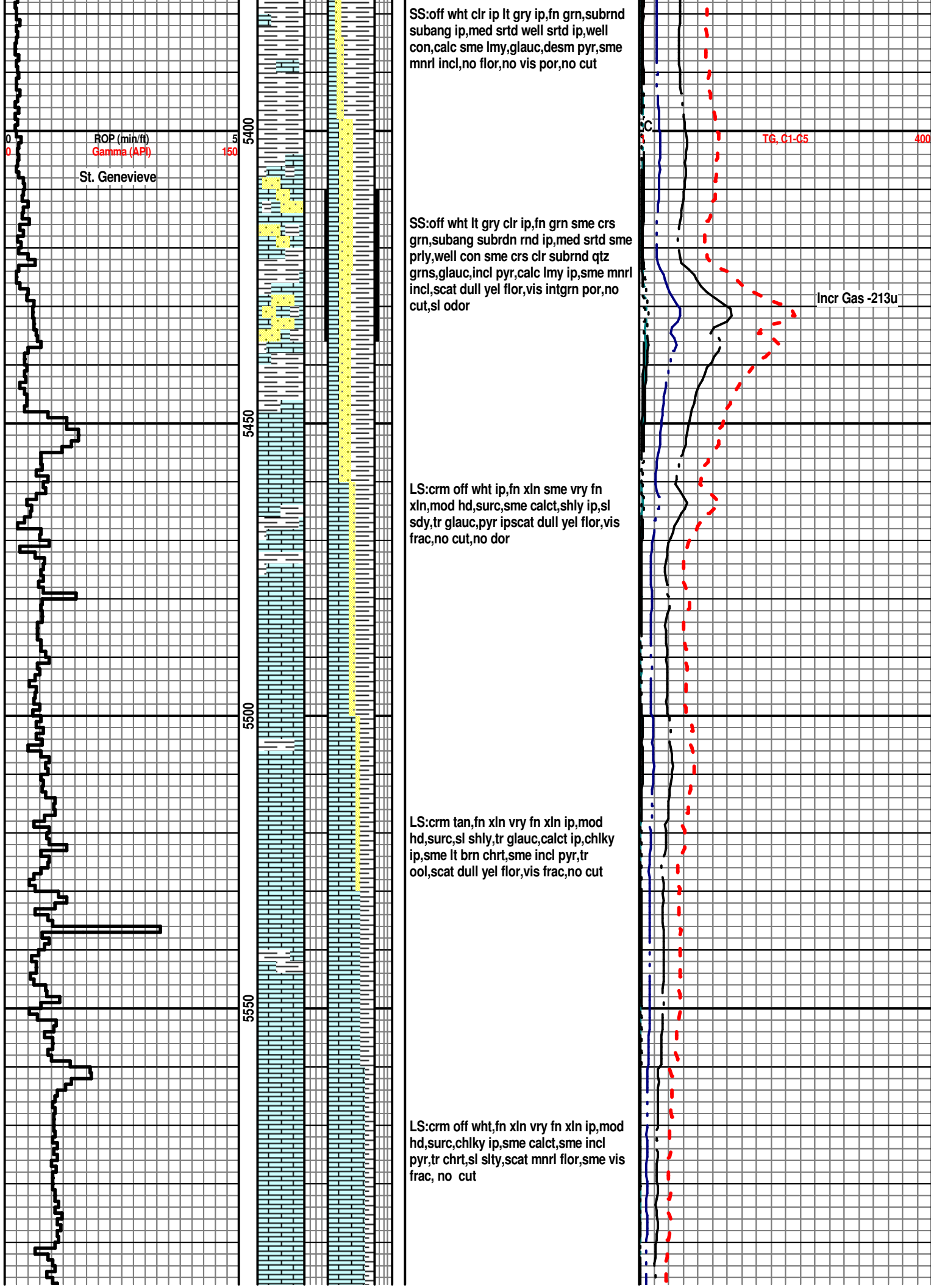
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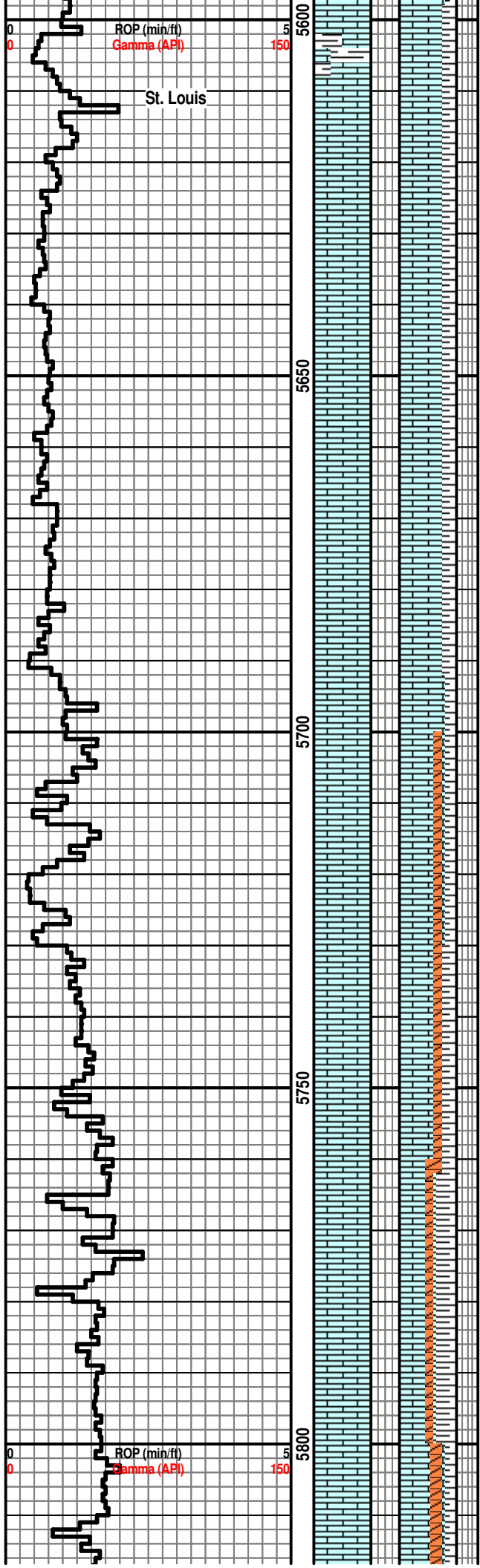
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SS:clr wht,med grn crs grn ip,subrnd suband rnd ip,med srted prly srted ip,well con sme prly con,calc,incl pyr,sme frstd crs rnd qtz grns,shly ip,glauc ip,scat dull yel flor,vis intgrn por,sl acid rng cut,faint odor

SS:clr wht ip,med-crs grn,subrnd subang ip rnd ip,med-prly srted,prly con sme well con,calc,pyr,glauc ip,shly ip,clr crs rnd qtz grns,sme mnrl incl,scat dull yel flor,vis intgrn por,sl acid rnd cut,sl odor,







LS:off wht crm ip wht ip,fn xln,mod hd  
sme hd,surc,sme desm pyr,tr  
glauc,calct,sl shly,chlky ip,scat dull yel  
flor,vis frac,no cut

LS:crm off wht wht,fn xln vry fn xln  
ip,mod hd,surc,sl shly,calct,sl slty,sme  
tan chrt,sl chlky,scat mnrl flor,vis  
frac,no cut

LS:tan crm ip,fn xln vry fn xln ip,mod  
hd-hd,surc ip,shly ip,sme desm  
pyr,calct ip,tr glauc,sme ool,scat mnrl  
flor,vis frac,no cut

LS:tan crm off wht ip,fn xln vry fn xln  
ip,mod hd hd ip,surc,shly,sme calct,tr  
glauc,slty ip,anhydr,sme incl qtz  
grns,scat dull yel flor,sme vis frac,no  
cut

