



Exploration Services LLC

www.pmls.com

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

Well Name: Starks 3408 2-35H
Location: 35-34S-8W Harper County
Licence Number: 15-077-21903-01-00 Region: Kansas
Spud Date: 1/31/13 Drilling Completed:
Surface Coordinates: 200' FNL & 1,980' FEL of Section 35-34S-8W

Bottom Hole 330' FSL & 1,980' FEL of Section 35-34S-8W
Coordinates:
Ground Elevation (ft): 1,277' K.B. Elevation (ft): 1,295' (+20' EST)
Logged Interval (ft): 3,400' To: Total Depth (ft): 9,200
Formation: Mississippi Limestone
Type of Drilling Fluid: WATER BASE MUD

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

OPERATOR

Company: Sandridge Energy, Inc.
Address: 123 Robert S. Kerr Avenue
Oklahoma City, OK 73102
405-429-5720

GEOLOGIST

Name: Tammy Alcorn
Company: Sandridge Energy, Inc.
Address: 123 Robert S. Kerr Avenue
Oklahoma City, OK 73102
405-429-5720

MUD LOG

PML Exploration Services LLC
5601 NW 72nd St., Suite 354
Oklahoma City, OK 73132
UNIT # 34
MUDLOGGERS: Devonia Horton / Brad Baram

CONTRACTOR

Unit Rig 310

ROCK TYPES

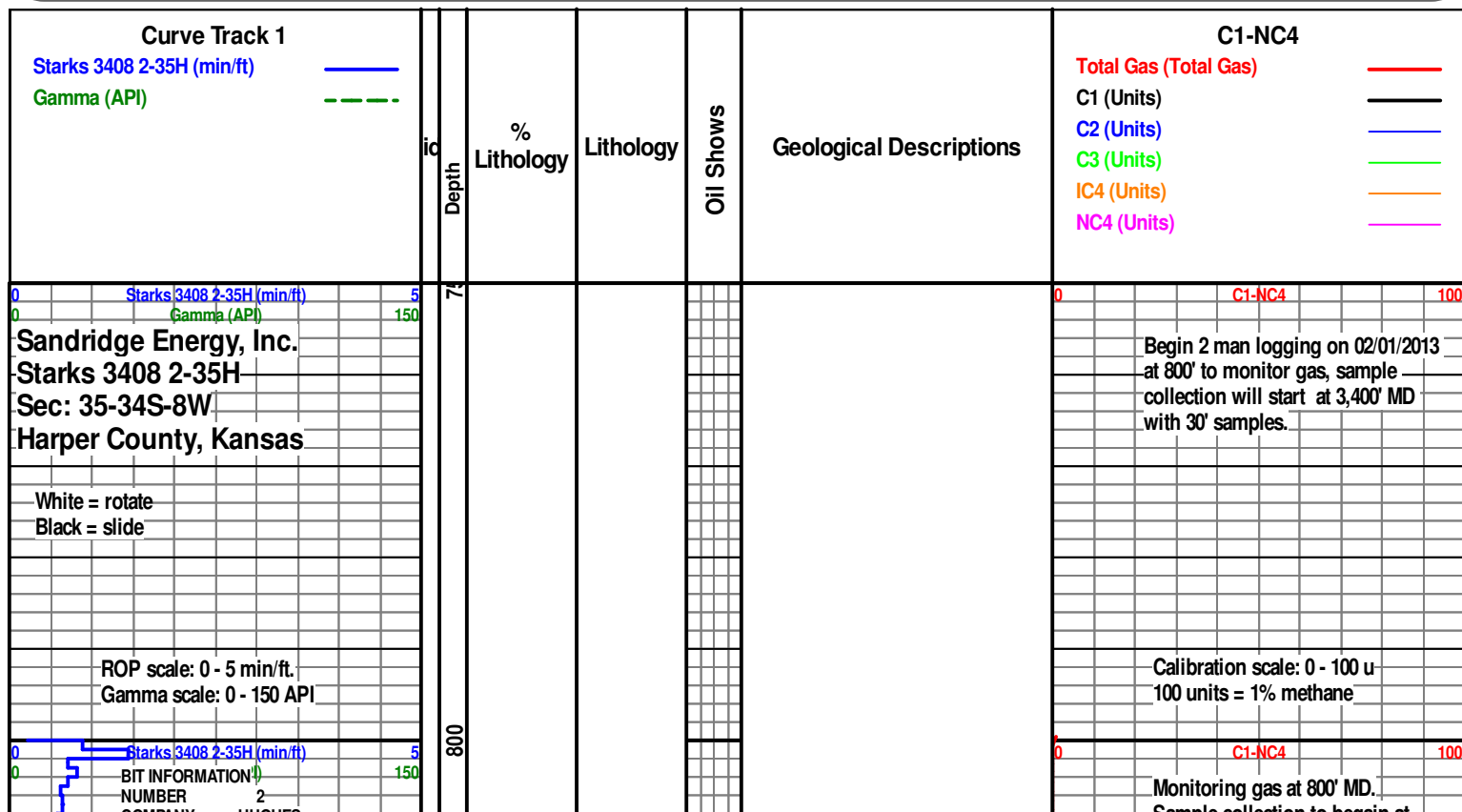
	Anhy		Clyst		Gyp		Mrlst		Shgy
	Bent		Coal		Igne		Salt		Sltst
	Brec		Congl		Lmst		Shale		Ss
	Cht		Dol		Meta		Shcol		Till

ACCESSORIES

MINERAL		FOSSIL		STRINGER		TEXTURE	
	Anhy		Algae		Anhy		Boundst
	Arggrn		Amph		Arg		Chalky
	Arg		Belm		Bent		Cryxln
	Bent		Bioclst		Coal		Earthy
	Bit		Brach		Dol		Finexln
	Brecfrag		Bryozoa		Gyp		Grainst
	Calc		Cephal		Ls		Lithogr
	Carb		Coral		Mrst		Microxln
	Chtdk		Crin				Mudst
	Chtlt		Echin				Packst
	Dol		Fish				Wackst
	Feldspar		Foram				
	Ferrpel		Fossil				
	Ferr		Gastro				
	Glau		Oolite				

OTHER SYMBOLS

POROSITY TYPE		ROUNDING		EVENTS	
	Earthly		Rounded		Rft
	Fenest		Subrnd		Sidewall
	Fracture		Subang		
	Inter		Angular		
	Moldic				
	Organic				
	Pinpoint				



COMPANY HUGHES
MODEL AT-506-X
TYPE HCC
SIZE 8.75
JETS 6X16
TOTAL FEET
TOTAL HRS
AVG ROP
WOB
RPM
DEPTH IN 775
DEPTH OUT

CONN

MW IN 8.4/33 OUT
8.5/33

CONN

Starks 3408 2-35H (min/ft)
Gamma (API)

5
150

850

900

950

1000

Sample collection to
begin at 3,400' MD.

Monitoring Gas

CG 0 u.

TEST GAS 201 u.

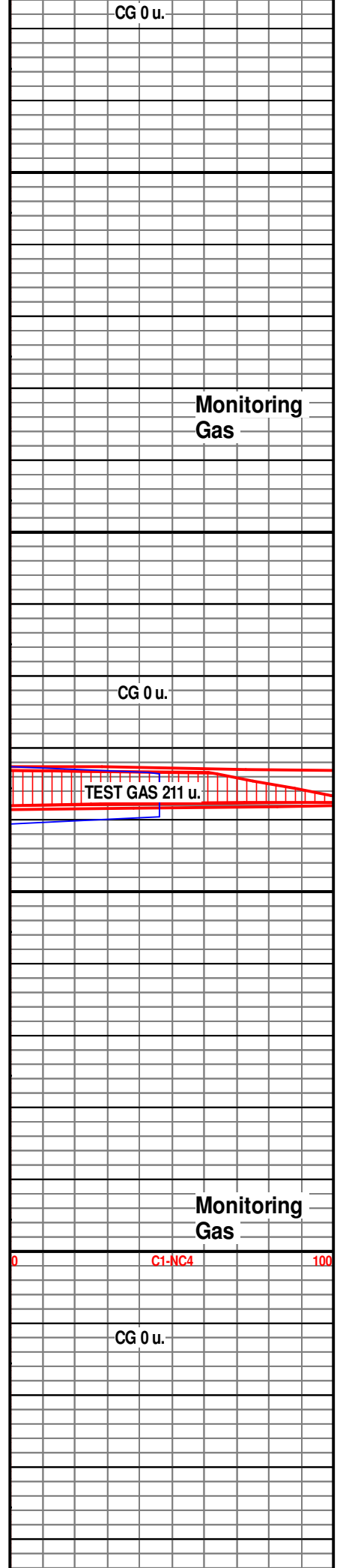
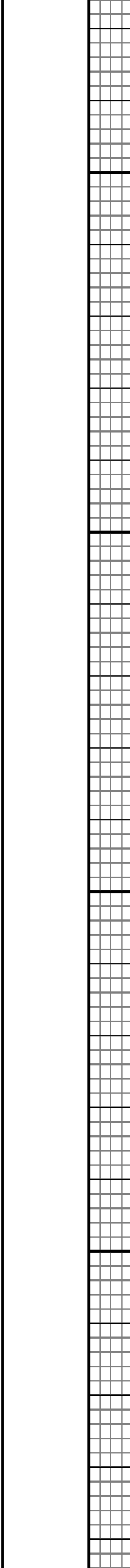
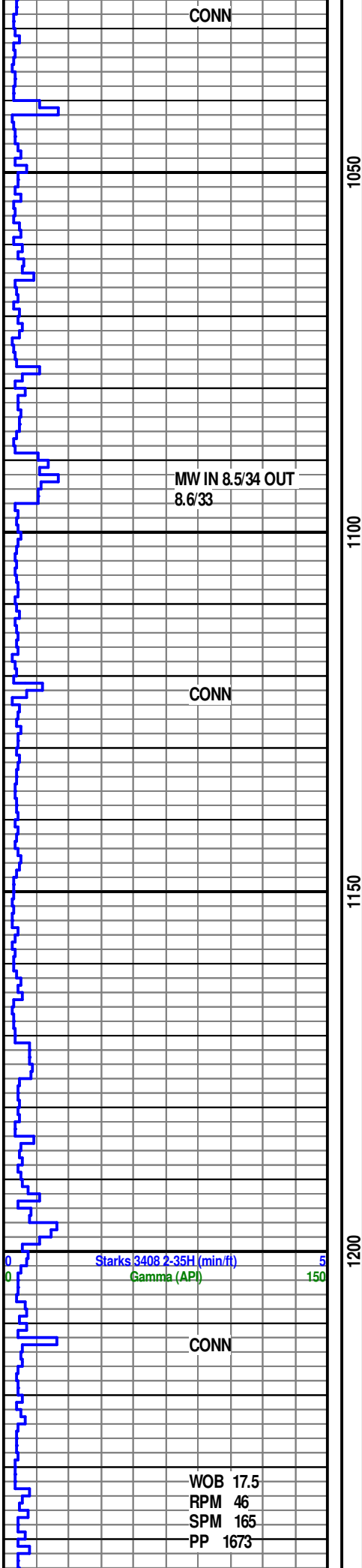
CG 0 u.

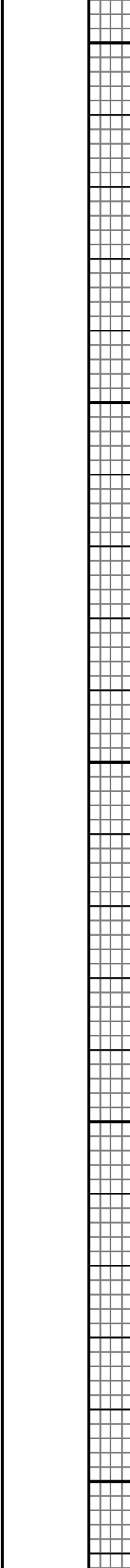
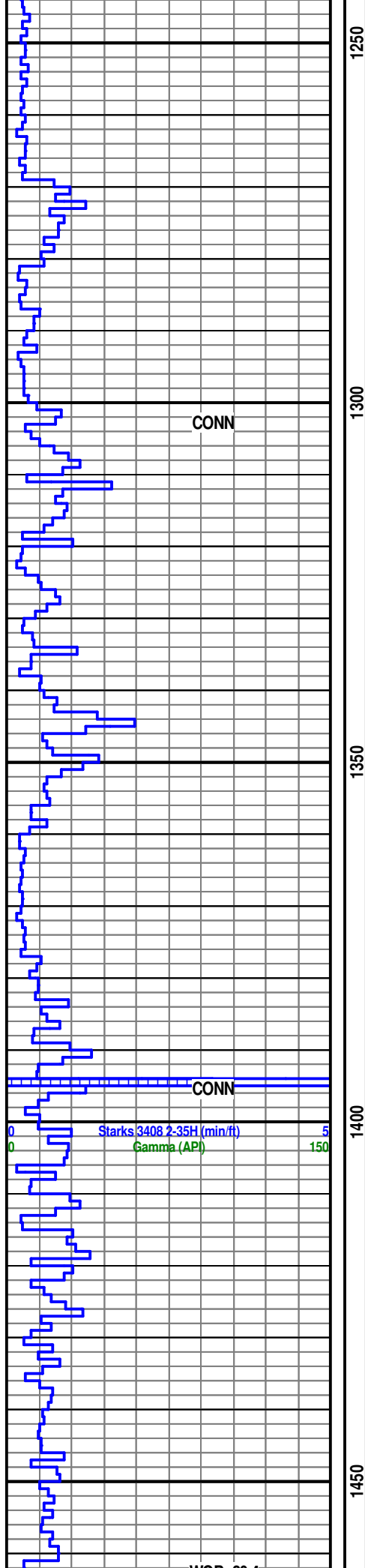
Sample collection to
begin at 3,400' MD.

Monitoring
Gas

C1-NC4

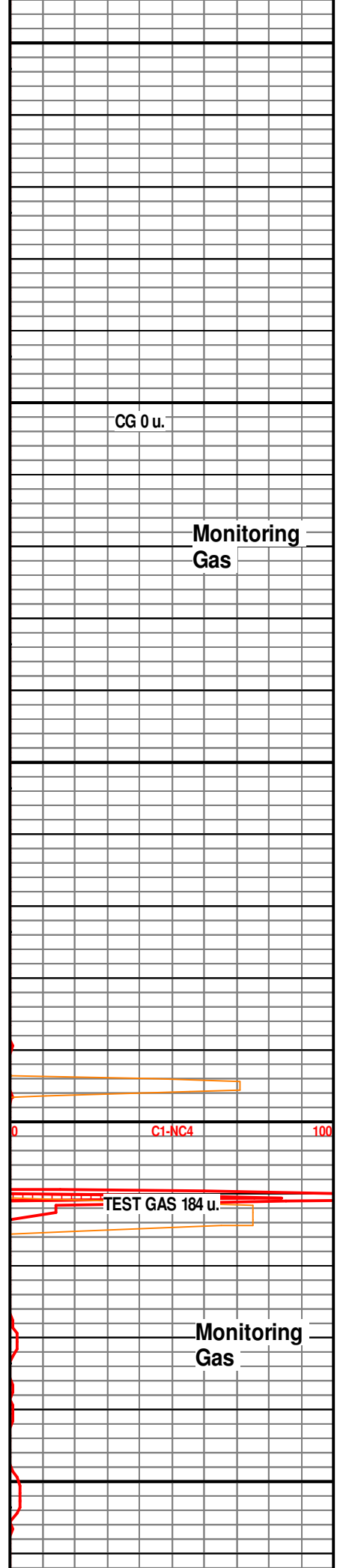
TEST GAS 203 u.

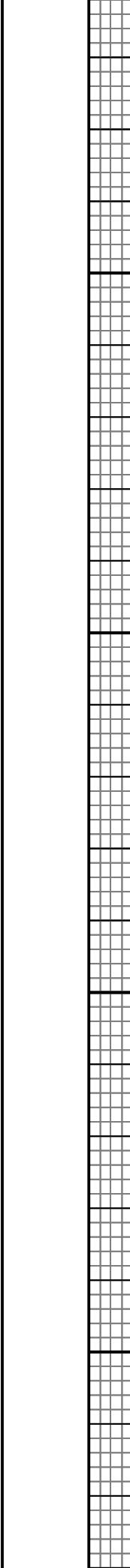
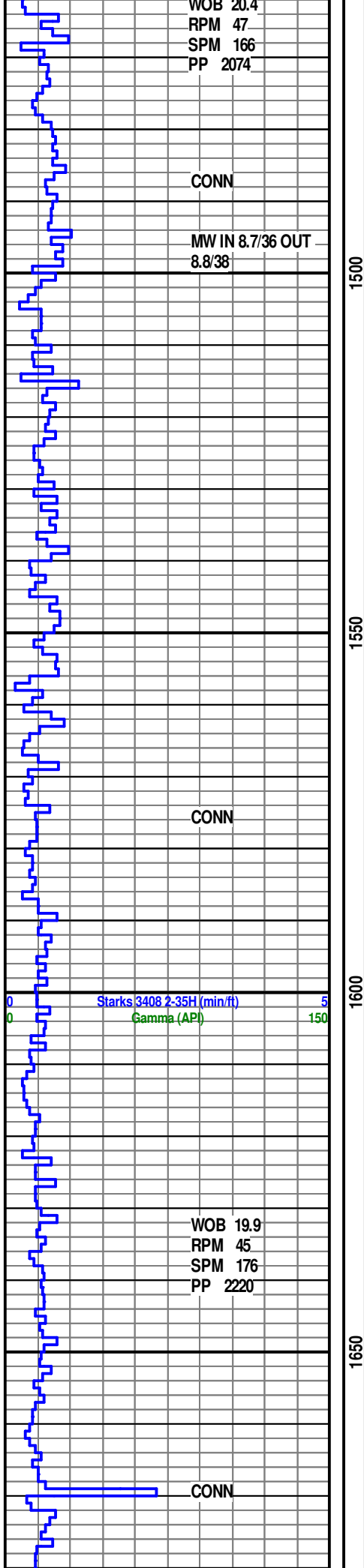




Sample collection to begin at 3,400' MD.

Sample collection to begin at 3,400' MD.

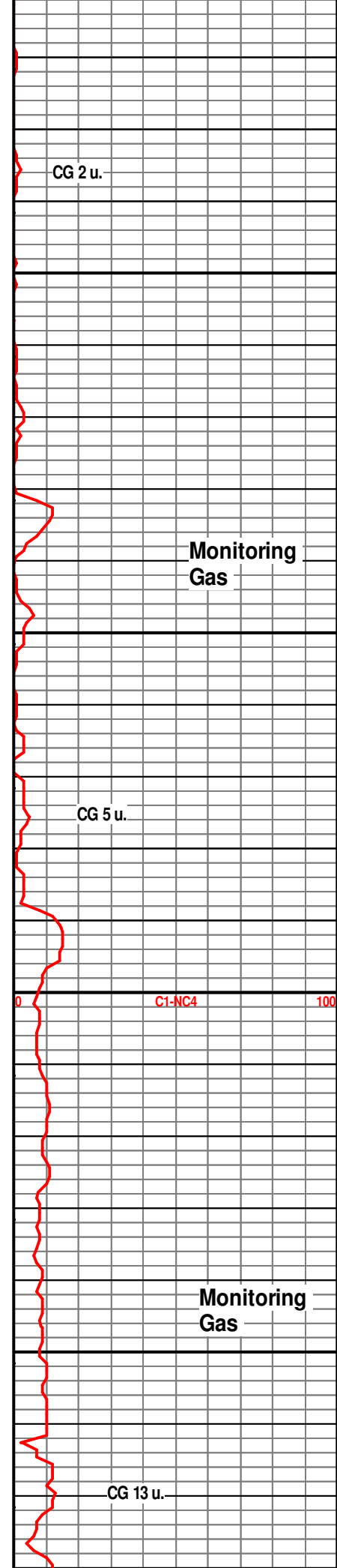


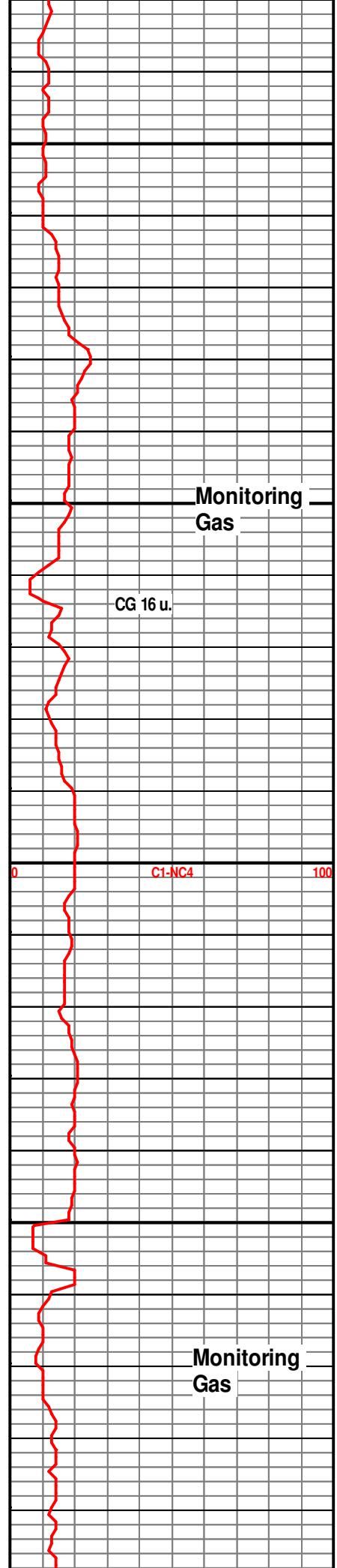
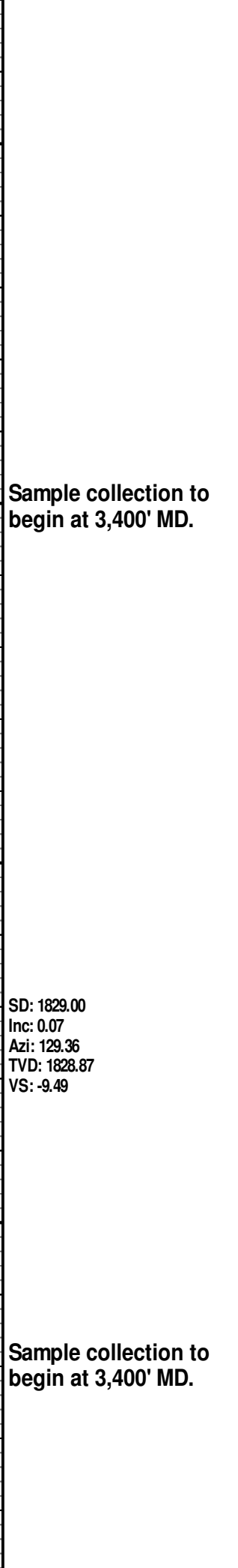
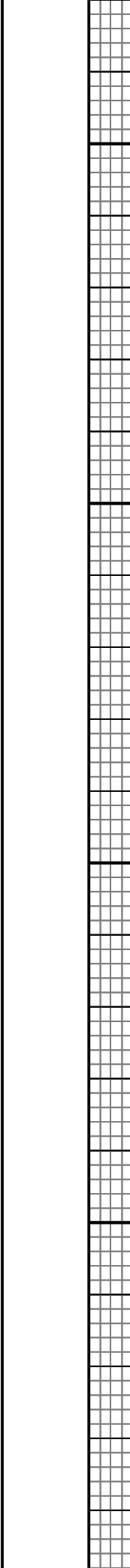
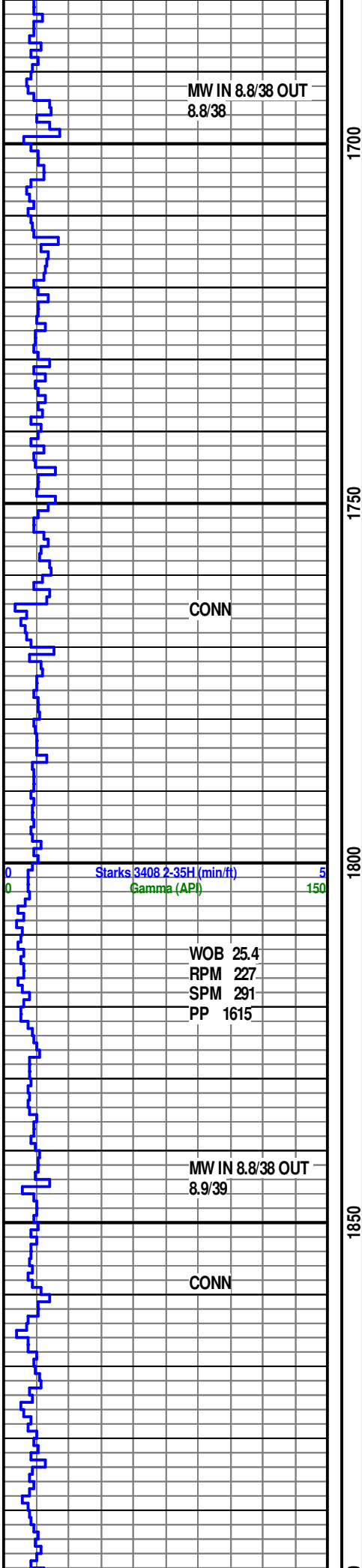


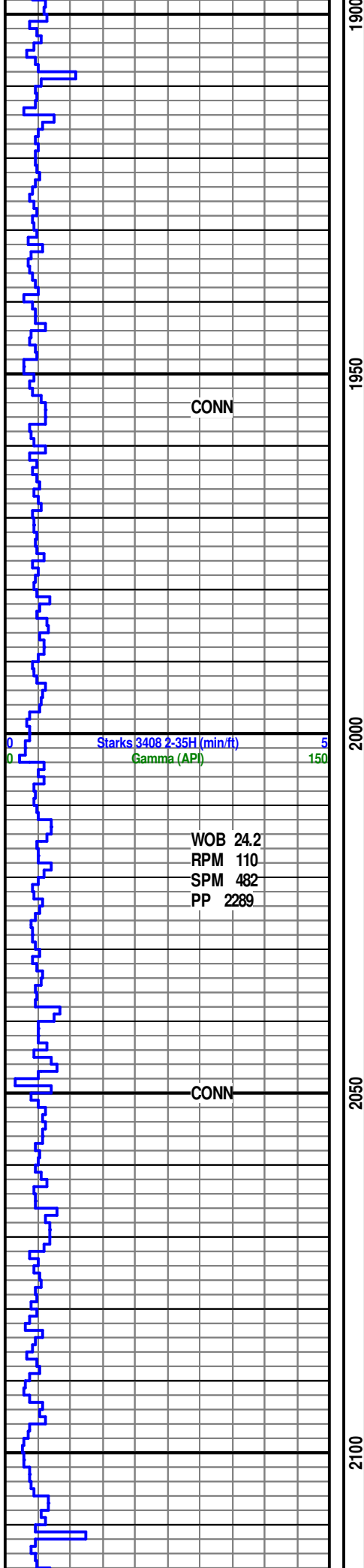
Sample collection to
begin at 3,400' MD.

SD: 1640.00
Inc: 0.25
Azi: 94.66
TVD: 1639.87
VS: -9.54

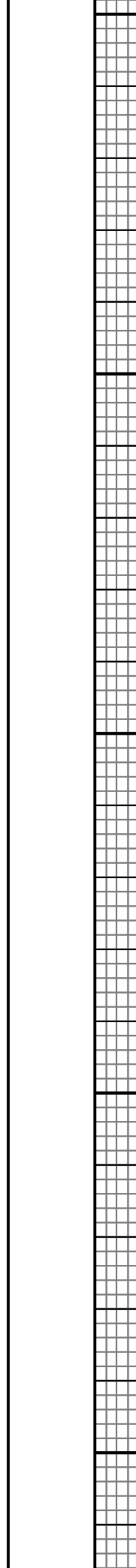
Sample collection to
begin at 3,400' MD.





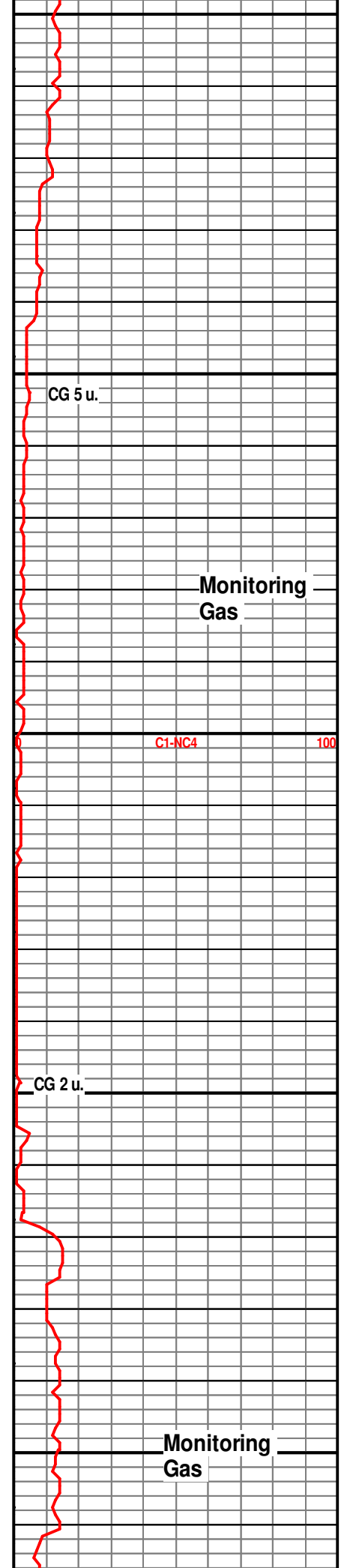


1900
1950
2000
2050
2100



Sample collection to begin at 3,400' MD.

Sample collection to begin at 3,400' MD.



CG 5 u.

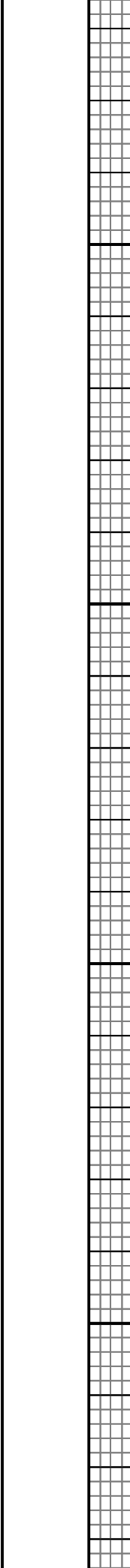
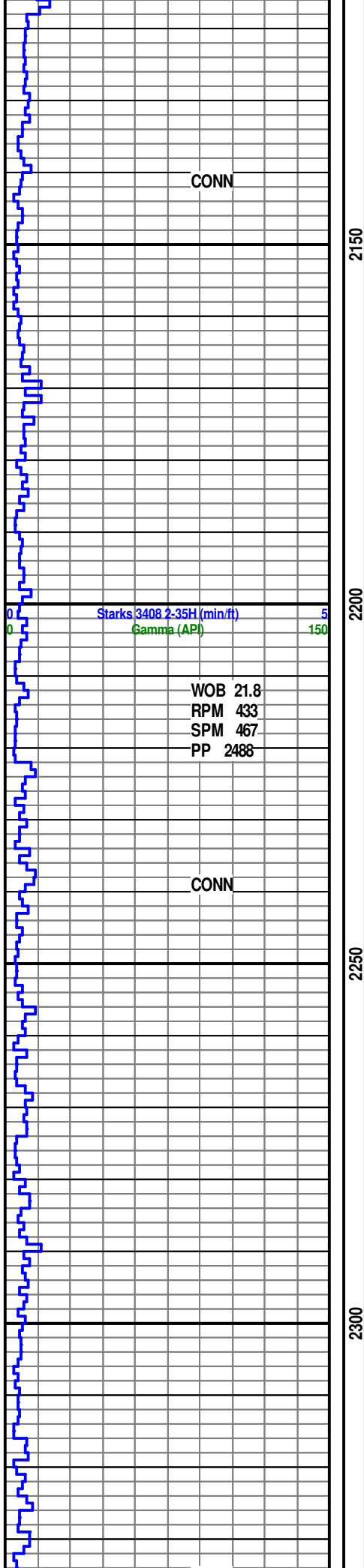
Monitoring Gas

C1-NC4

100

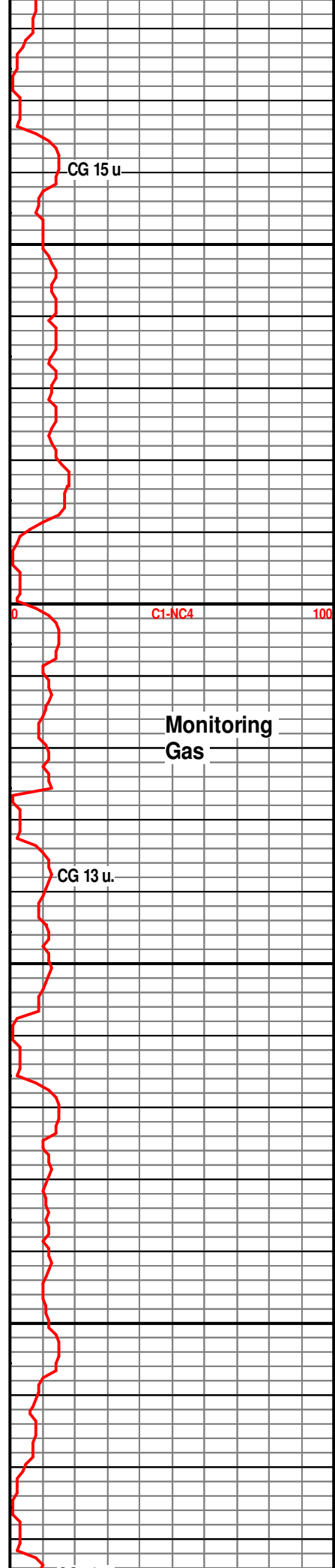
CG 2 u.

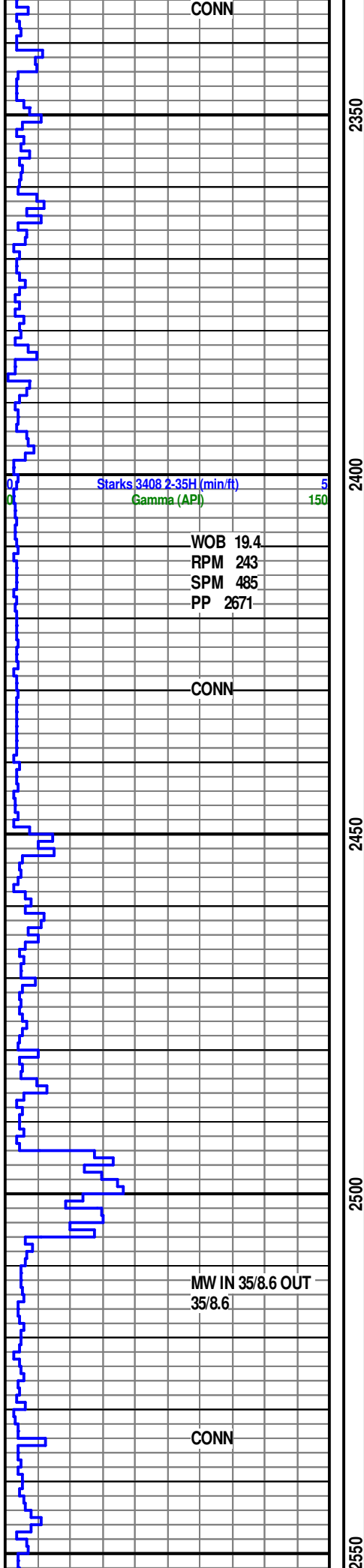
Monitoring Gas



Sample collection to begin at 3,400' MD.

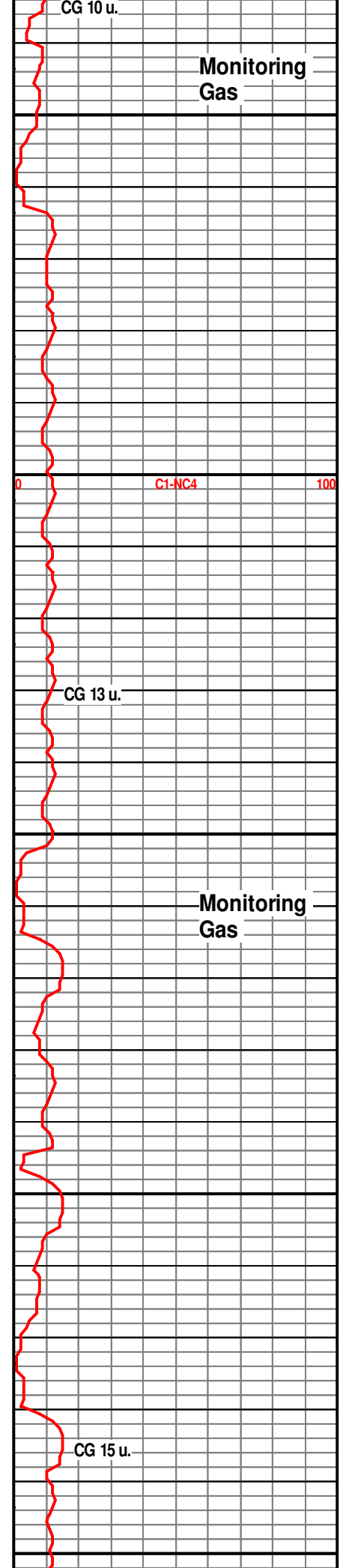
SD: 2304.00
Inc: 0.15
Azi: 30.60
TVD: 2303.87
VS: -9.52

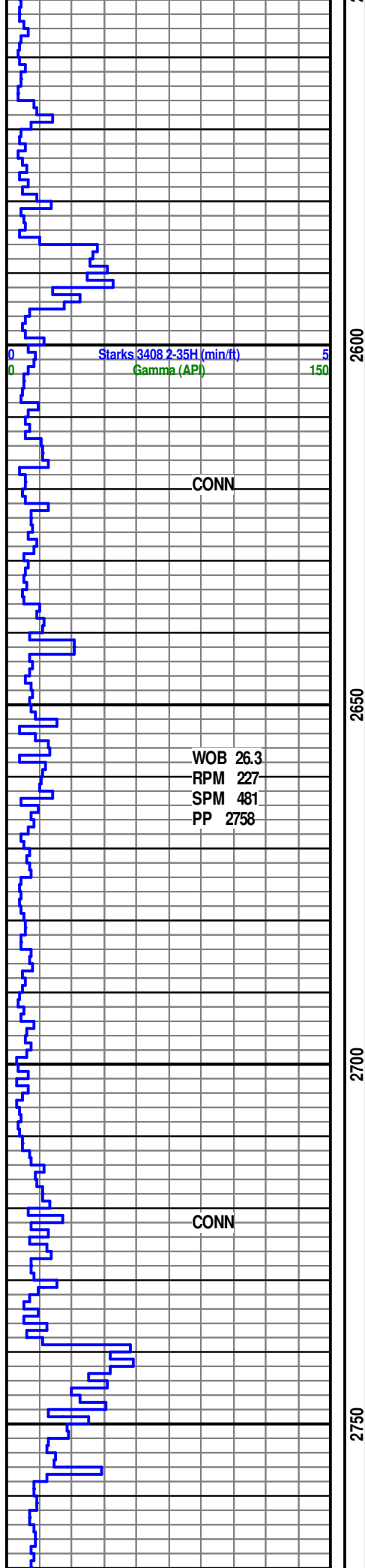




Sample collection to begin at 3,400' MD.

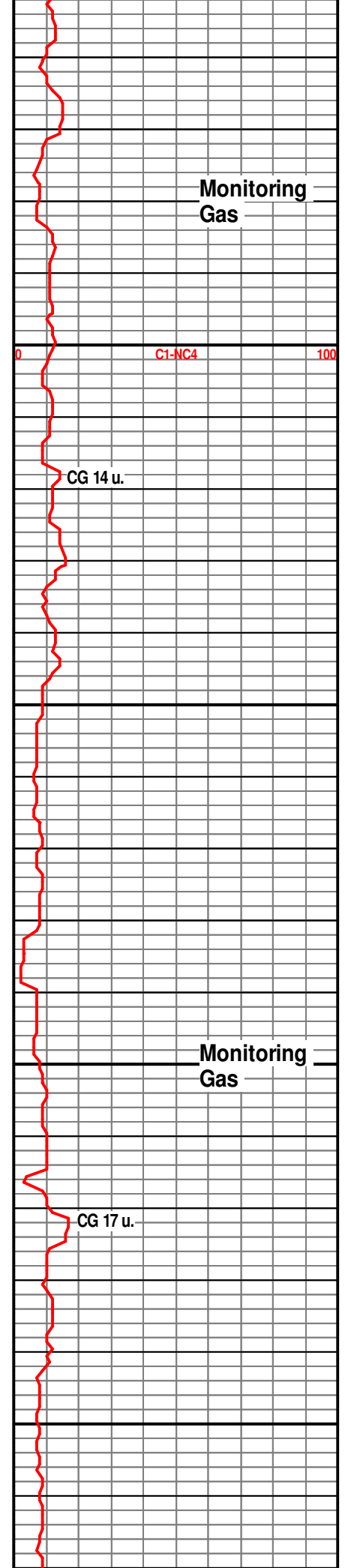
Sample collection to begin at 3,400' MD.

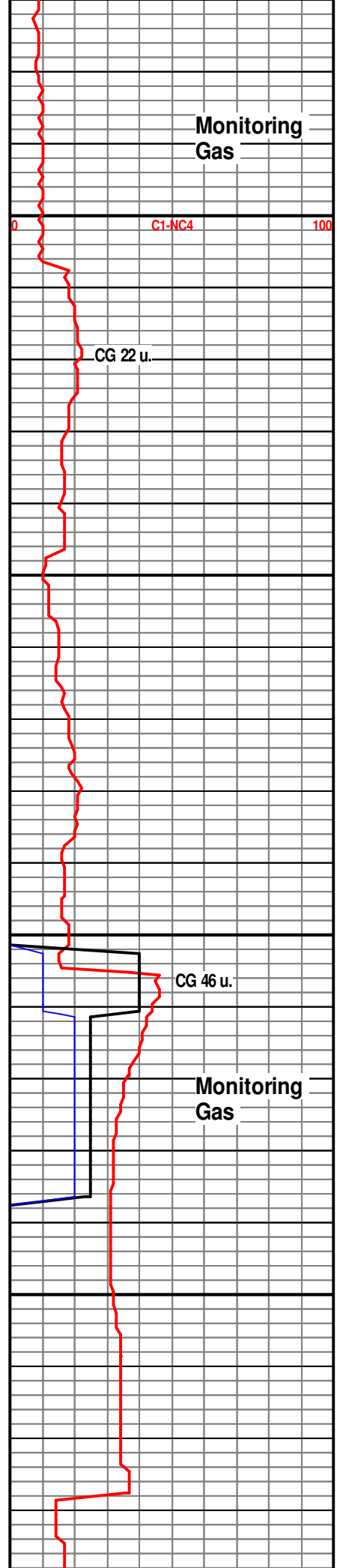
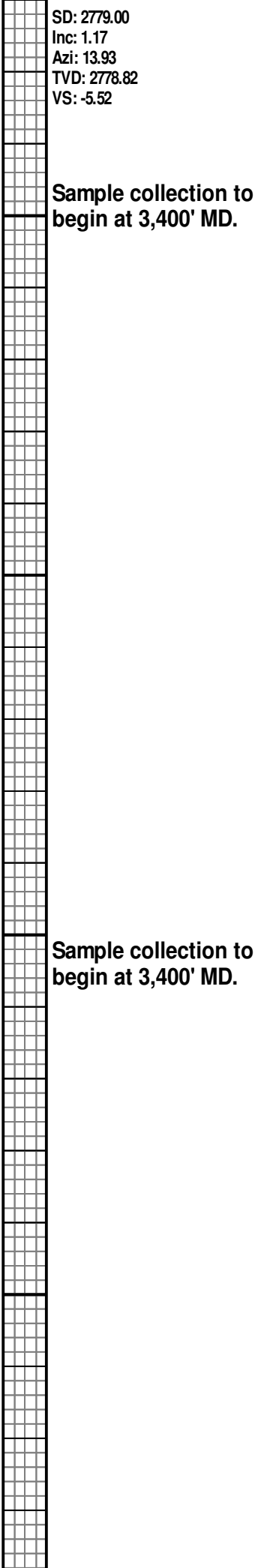
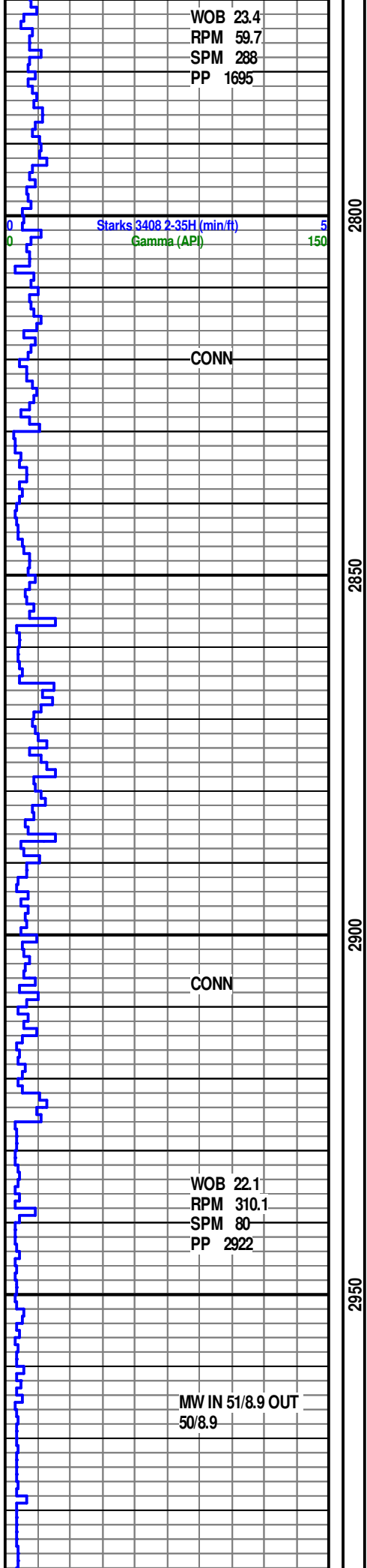


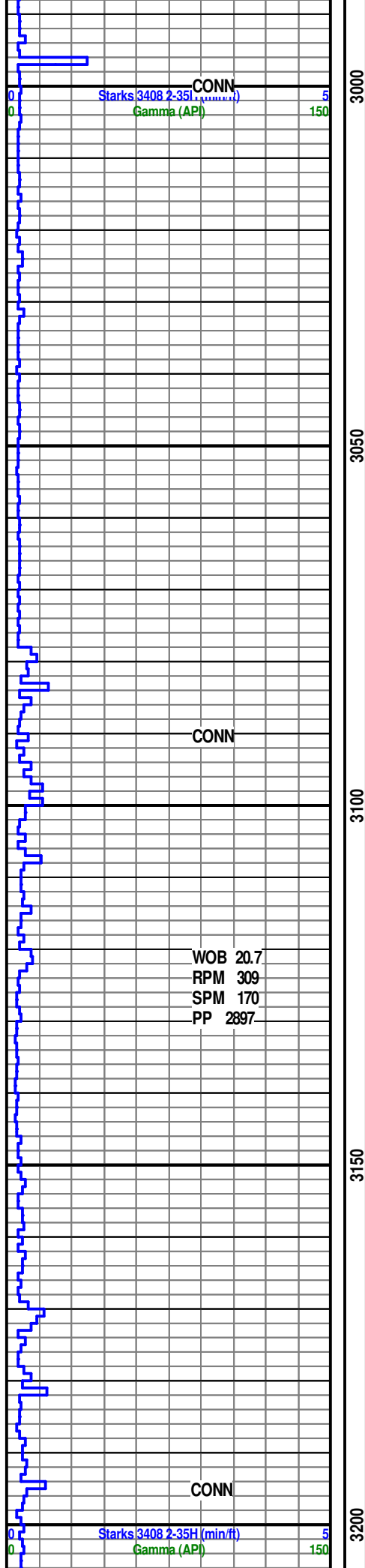


Sample collection to begin at 3,400' MD.

Monitoring Gas

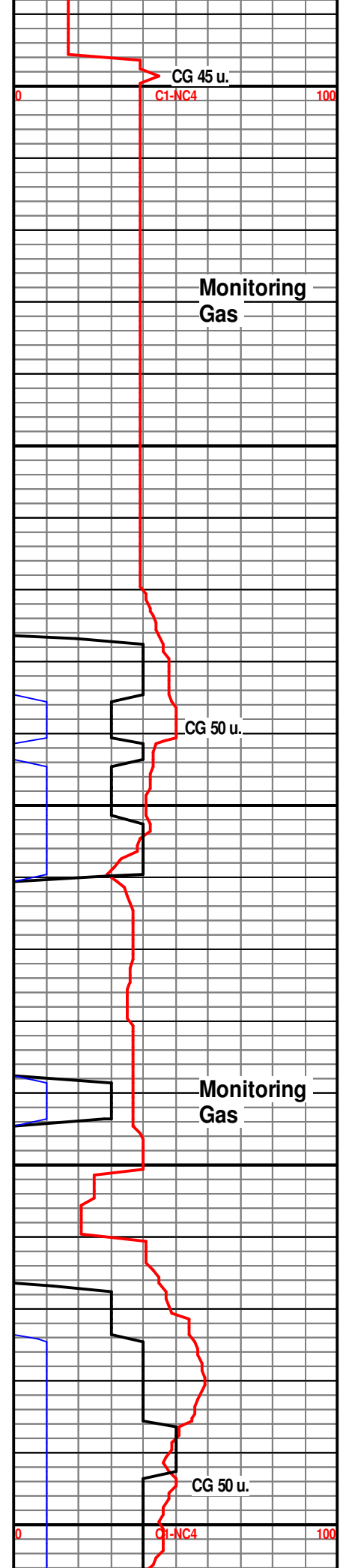


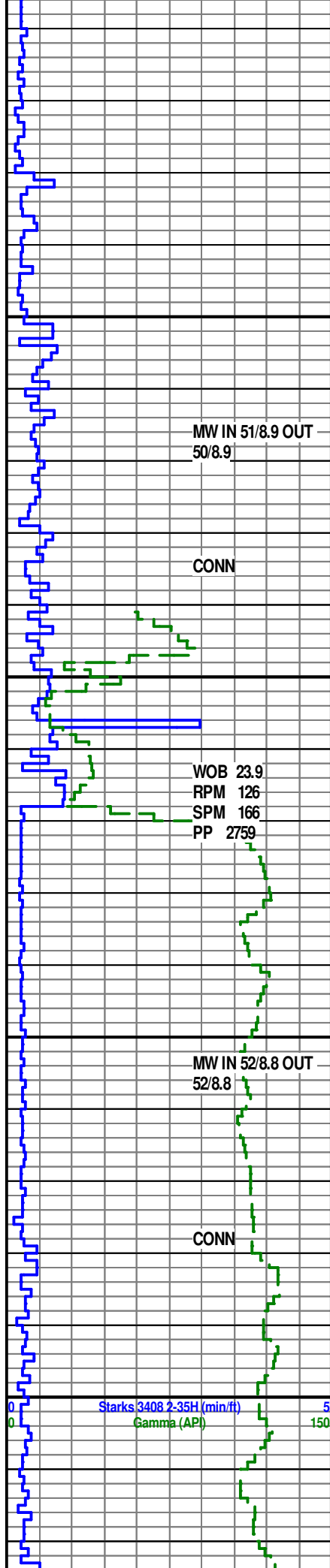




Sample collection to begin at 3,400' MD.

Sample collection to begin at 3,400' MD.



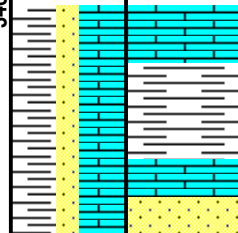


3250

3300

3350

3400

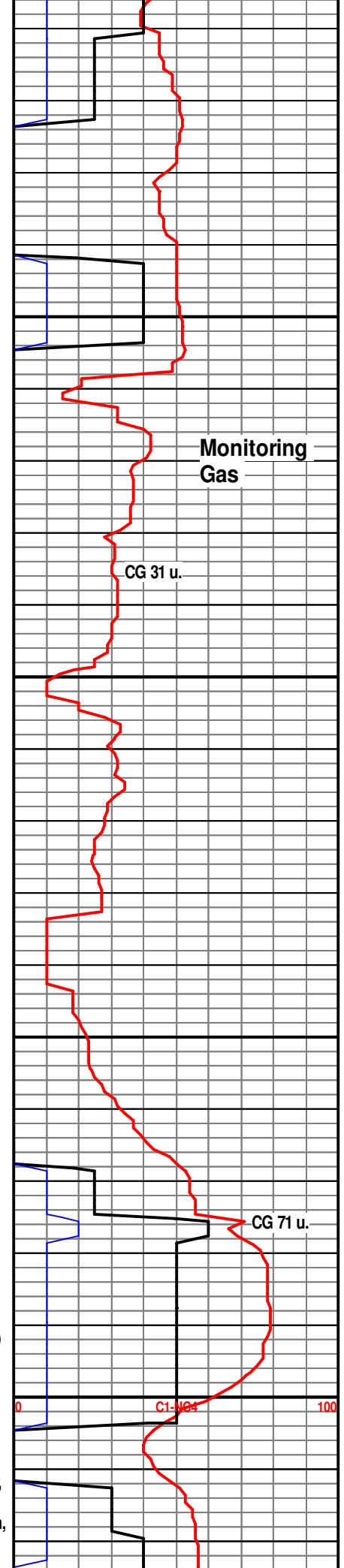


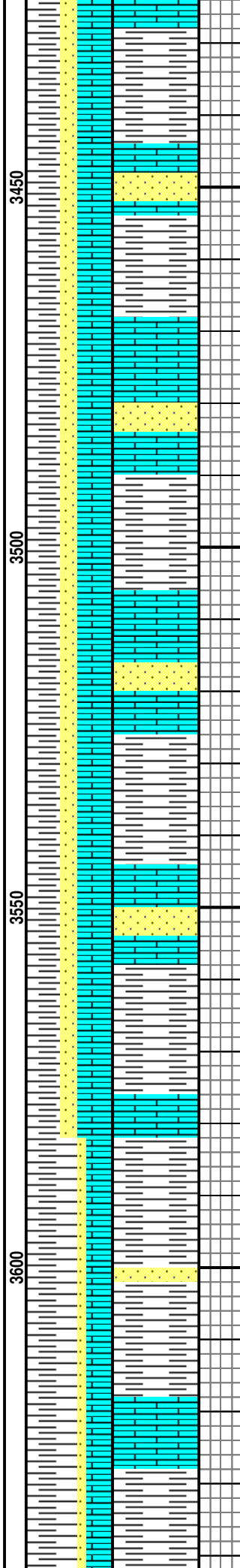
SD: 3252.00
Inc: 0.03
Azi: 297.95
TVD: 3251.81
VS: -4.37

Sample collection to
begin at 3,400' MD.

Sample collection
begin at 3,400' MD - TD

LS: 40% Gry-ltGry, sft-m frm, vf
xln, dull, dol; SH: 40% Blk-dk Gry,
sft-frm, sb plty-plty, intlam, dull;
SS: 20% milky- Wht, m consol, f-m,
ang, srt; lt Yl flor, no cut, no rng





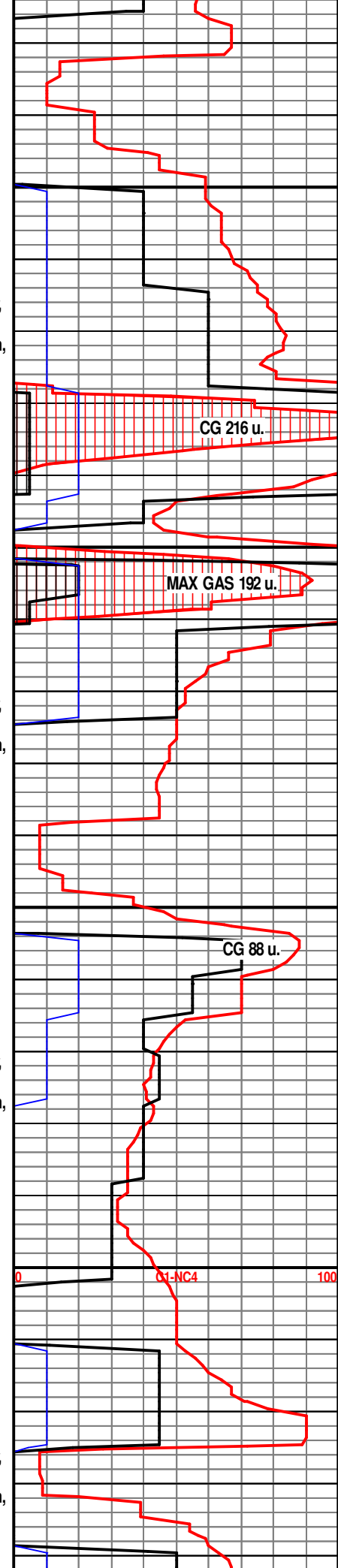
LS: 40% Gry-ltGry, sft-m frm, vf xln, dull, dol; SH: 40% Blk-dk Gry, sft-frm, sb plty-plty, intlam, dull; SS: 20% mlky- Wht, m consol, f-m, ang, srt; lt YI flor, no cut, no rng

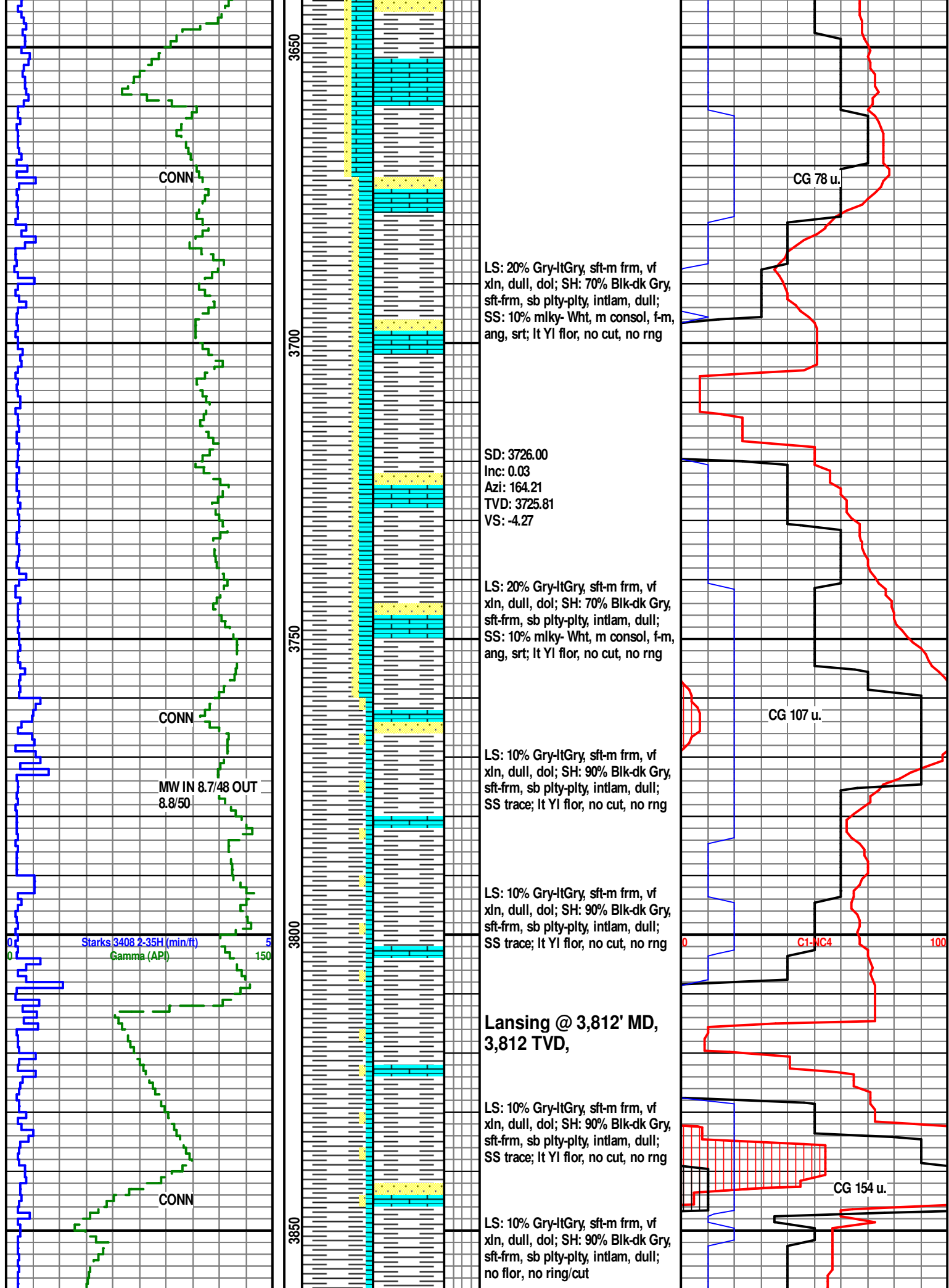
**Base Heebner @ 3,501'
MD, 3,501' TVD**

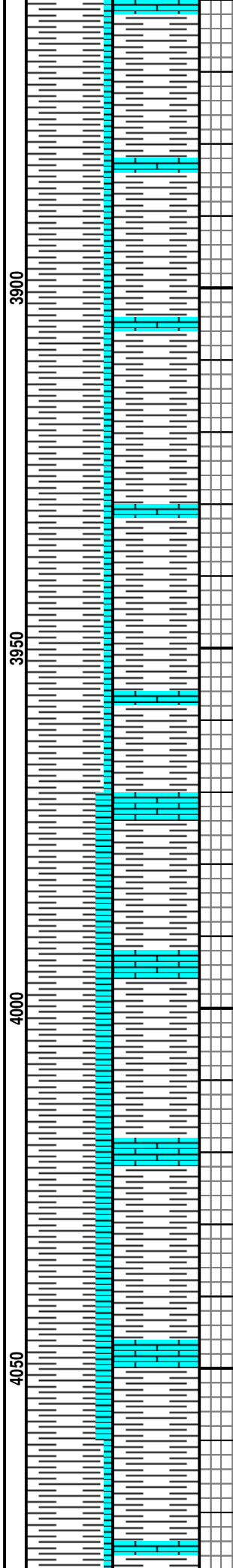
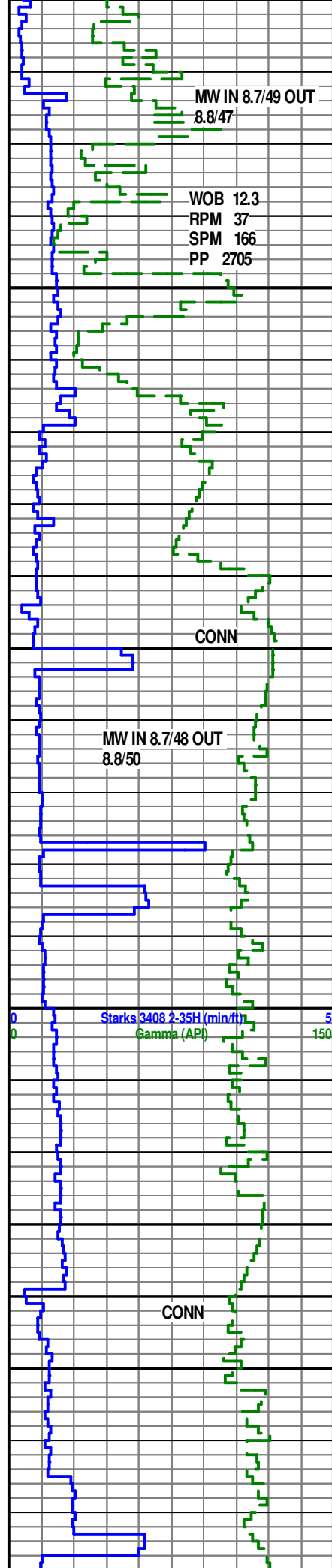
LS: 40% Gry-ltGry, sft-m frm, vf xln, dull, dol; SH: 40% Blk-dk Gry, sft-frm, sb plty-plty, intlam, dull; SS: 20% mlky- Wht, m consol, f-m, ang, srt; lt YI flor, no cut, no rng

LS: 40% Gry-ltGry, sft-m frm, vf xln, dull, dol; SH: 40% Blk-dk Gry, sft-frm, sb plty-plty, intlam, dull; SS: 20% mlky- Wht, m consol, f-m, ang, srt; lt YI flor, no cut, no rng

LS: 30% Gry-ltGry, sft-m frm, vf xln, dull, dol; SH: 60% Blk-dk Gry, sft-frm, sb plty-plty, intlam, dull; SS: 10% mlky- Wht, m consol, f-m, ang, srt; lt YI flor, no cut, no rng







SD: 3885.00
Inc: 0.96
Azi: 357.26
TVD: 3884.81
VS: -3.84

SD: 3916.00
Inc: 3.76
Azi: 356.96
TVD: 3915.78
VS: -2.56

LS: 10% Gry-ltGry, sft-m frm, vf xln, dull, dol; SH: 90% Blk-dk Gry, sft-frm, sb plty-plty, intlam, dull; no flor, no ring/cut

SD: 3948.00
Inc: 6.32
Azi: 358.92
TVD: 3947.65
VS: 0.25

LS: 10% Gry-ltGry, sft-m frm, vf xln, dull, dol; SH: 90% Blk-dk Gry, sft-frm, sb plty-plty, intlam, dull; no flor, no ring/cut

SD: 3980.00
Inc: 8.20
Azi: 359.07
TVD: 3979.40
VS: 4.29

LS: 20% Gry-ltGry, sft-m frm, vf xln, dull, dol; SH: 80% Blk-dk Gry, sft-frm, sb plty-plty, intlam, dull; no flor, no ring/cut

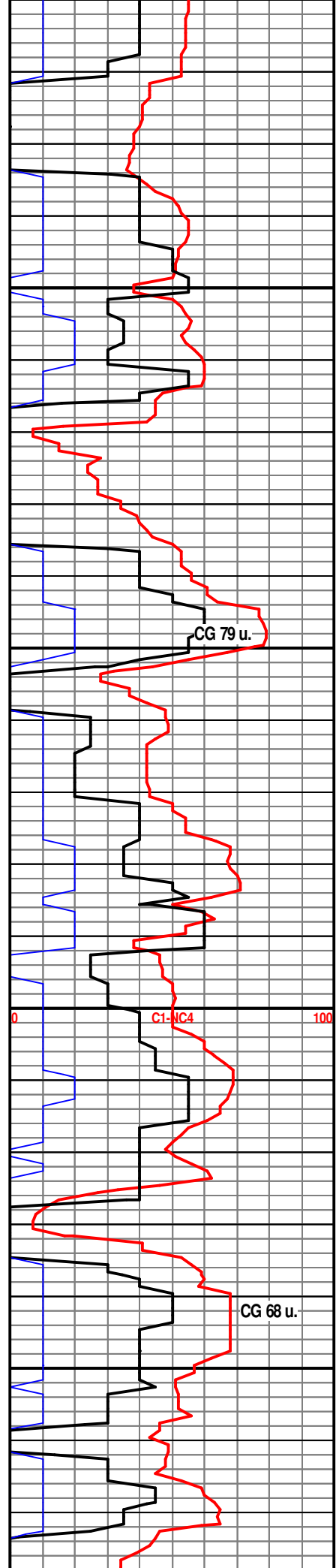
SD: 4011.00
Inc: 9.94
Azi: 357.51
TVD: 4010.01
VS: 9.18

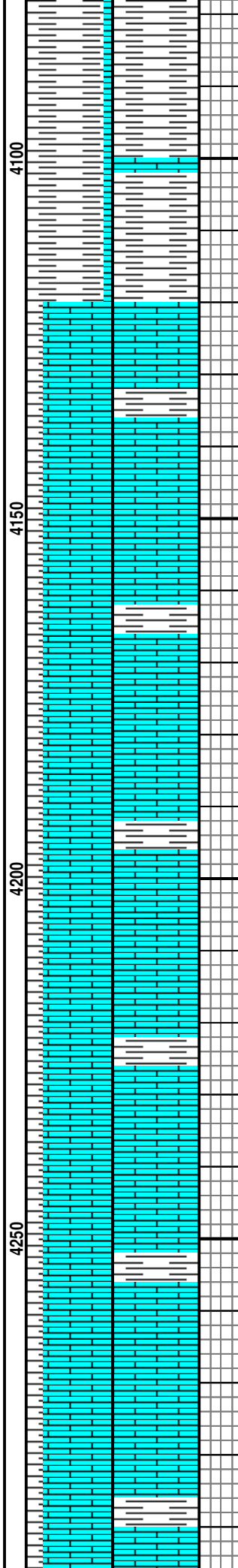
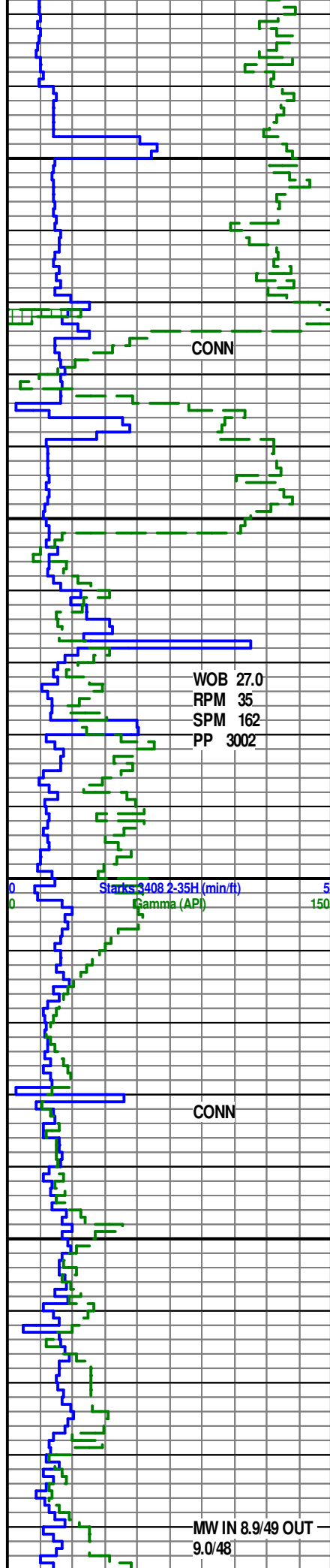
SD: 4043.00
Inc: 12.08
Azi: 355.32
TVD: 4041.42
VS: 15.28

LS: 20% Gry-ltGry, sft-m frm, vf xln, dull, dol; SH: 80% Blk-dk Gry, sft-frm, sb plty-plty, intlam, dull; no flor, no ring/cut

LS: 10% Gry-ltGry, sft-m frm, vf xln, dull, dol; SH: 90% Blk-dk Gry, sft-frm, sb plty-plty, intlam, dull; no flor, no ring/cut

SD: 4075.00
Inc: 13.62
Azi: 355.09





TVD: 4072.61
VS: 22.39

LS: 10% Gry-ltGry, sft-m frm, vf xln, dull, dol; SH: 90% Blk-dk Gry, sft-frm, sb plty-plty, intlām, dull; no flor, no ring/cut

SD: 4106.00
Inc: 14.91
Azi: 353.46
TVD: 4102.66
VS: 30.00

**Cottage Grove @ 4,124'
MD 4,120' TVD**

SD: 4138.00
Inc: 17.60
Azi: 353.57
TVD: 4133.38
VS: 38.92

LS: 80% Gry-ltGry, sft-m frm, vf xln, dull, dol; SH: 20% Blk-dk Gry, sft-frm, sb plty-plty, intlām, dull; no flor, no ring/cut

SD: 4170.00
Inc: 21.12
Azi: 352.83
TVD: 4163.56
VS: 49.48

LS: 80% Gry-ltGry, sft-m frm, vf xln, dull, dol; SH: 20% Blk-dk Gry, sft-frm, sb plty-plty, intlām, dull; no flor, no ring/cut

SD: 4201.00
Inc: 24.12
Azi: 350.58
TVD: 4192.17
VS: 61.31

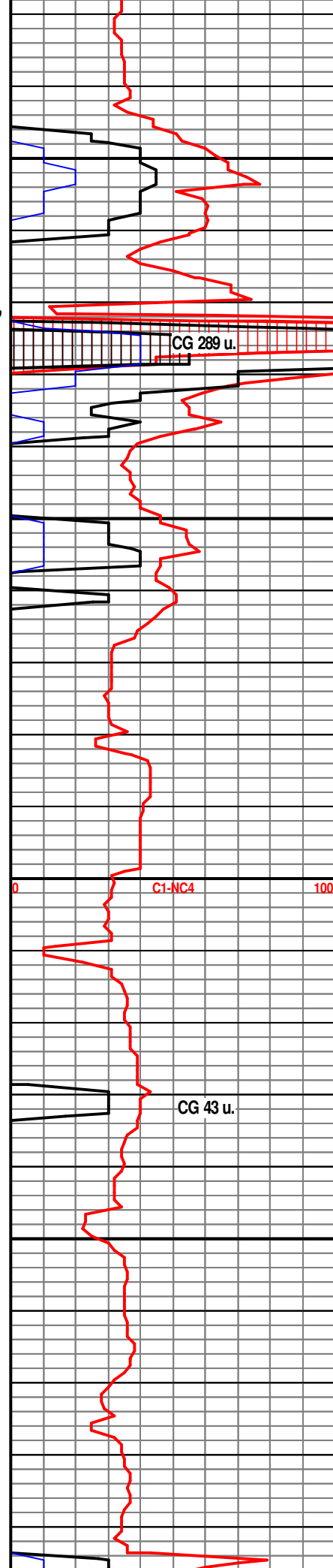
LS: 80% Gry-ltGry, sft-m frm, vf xln, dull, dol; SH: 20% Blk-dk Gry, sft-frm, sb plty-plty, intlām, dull; no flor, no ring/cut

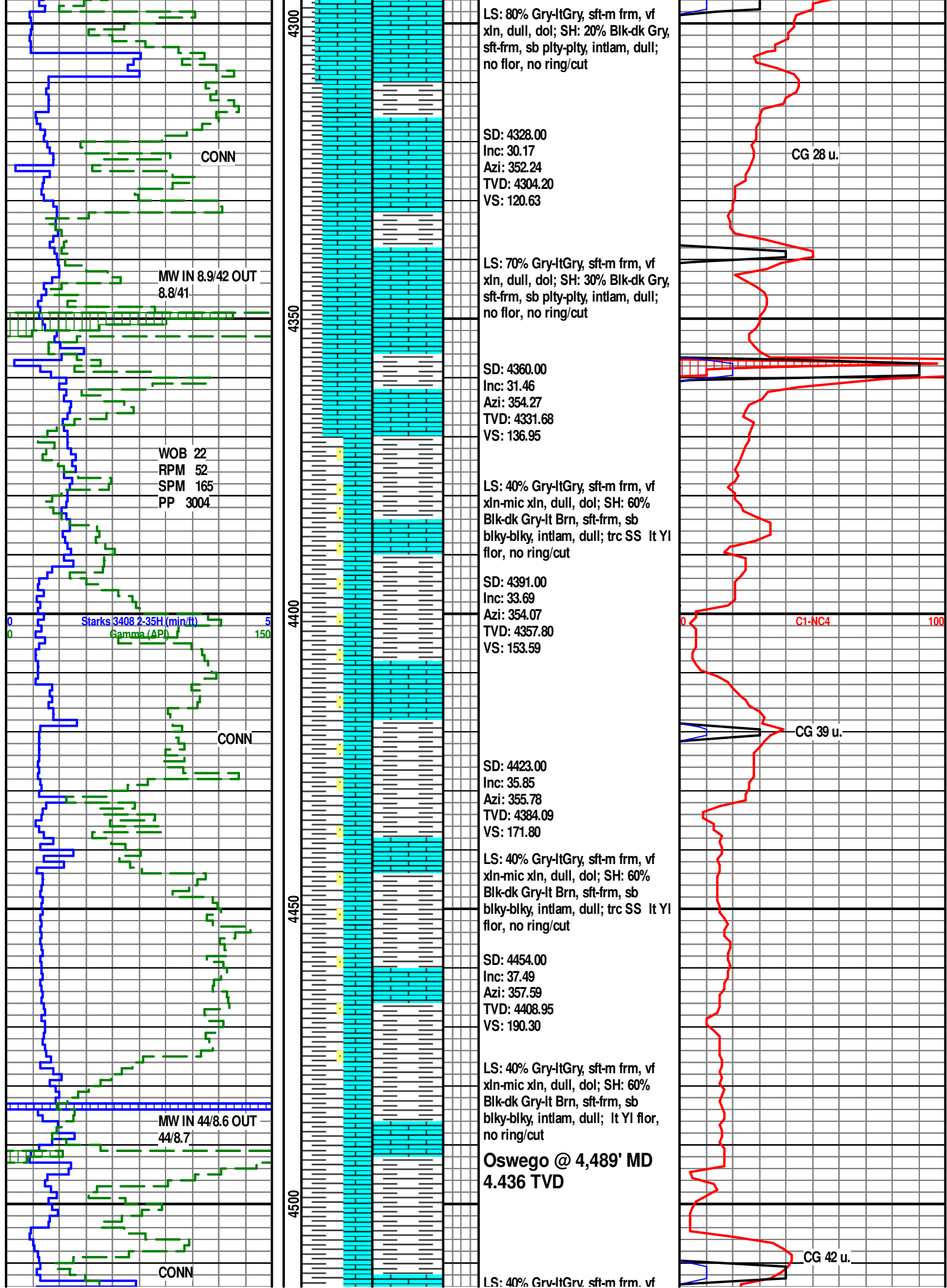
SD: 4233.00
Inc: 26.61
Azi: 351.91
TVD: 4221.09
VS: 74.91

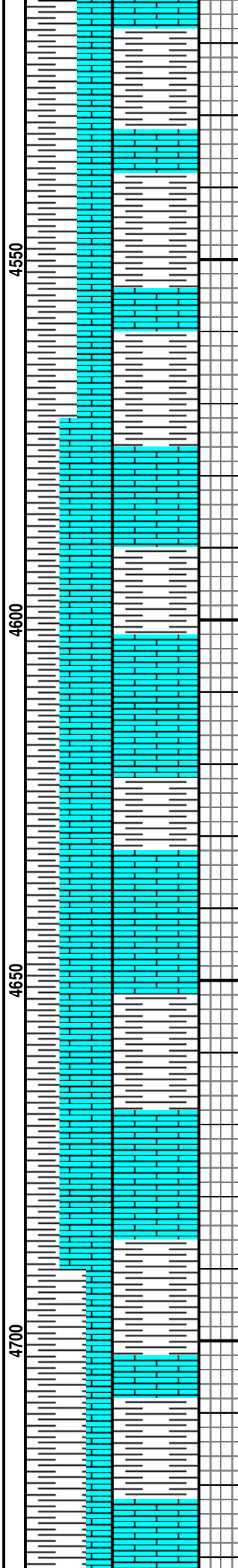
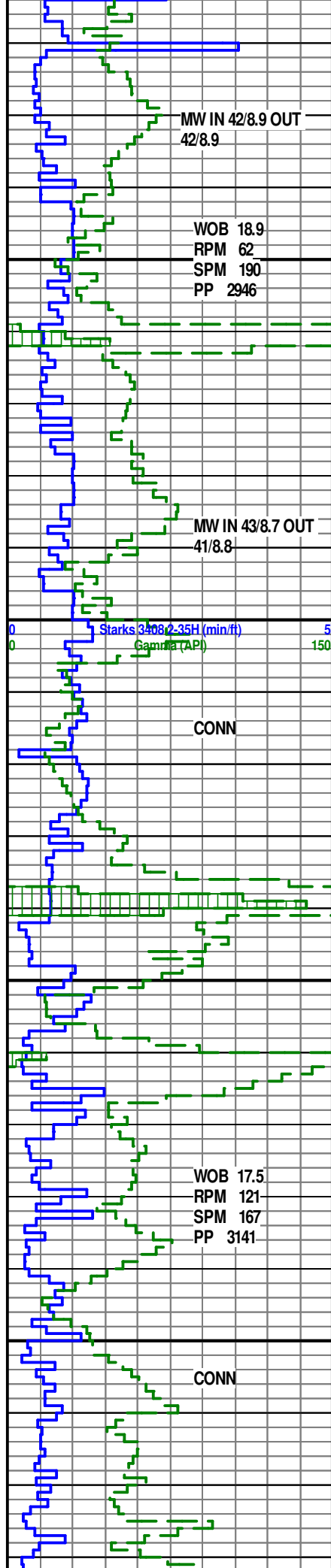
LS: 80% Gry-ltGry, sft-m frm, vf xln, dull, dol; SH: 20% Blk-dk Gry, sft-frm, sb plty-plty, intlām, dull; no flor, no ring/cut

SD: 4265.00
Inc: 28.65
Azi: 352.36
TVD: 4249.44
VS: 89.65

SD: 4296.00
Inc: 29.84
Azi: 352.80
TVD: 4276.48
VS: 104.71







LS: 60% Gry-ltGry, sft-m frm, vf xln-mic xln, dull, dol; SH: 60% Blk-dk Gry-lt Brn, sft-frm, sb blk-y-blky, intlam, dull; lt YI flor, no ring/cut

SD: 4549.00
Inc: 43.21
Azi: 359.83
TVD: 4481.19
VS: 251.92

LS: 40% Gry-ltGry, sft-m frm, vf xln-mic xln, dull, dol; SH: 60% Blk-dk Gry-lt Brn, sft-frm, sb blk-y-blky, intlam, dull; lt YI flor, no ring/cut

SD: 4581.00
Inc: 43.73
Azi: 1.38
TVD: 4504.41
VS: 273.92

LS: 60% Gry-ltGry, sft-m frm, vf xln-mic xln, dull, dol; SH: 40% Blk-dk Gry-lt Brn, sft-frm, sb blk-y-blky, intlam, dull; lt YI flor, no ring/cut

SD: 4612.00
Inc: 46.21
Azi: 1.69
TVD: 4526.34
VS: 295.80

SD: 4644.00
Inc: 48.67
Azi: 0.78
TVD: 4547.99
VS: 319.34

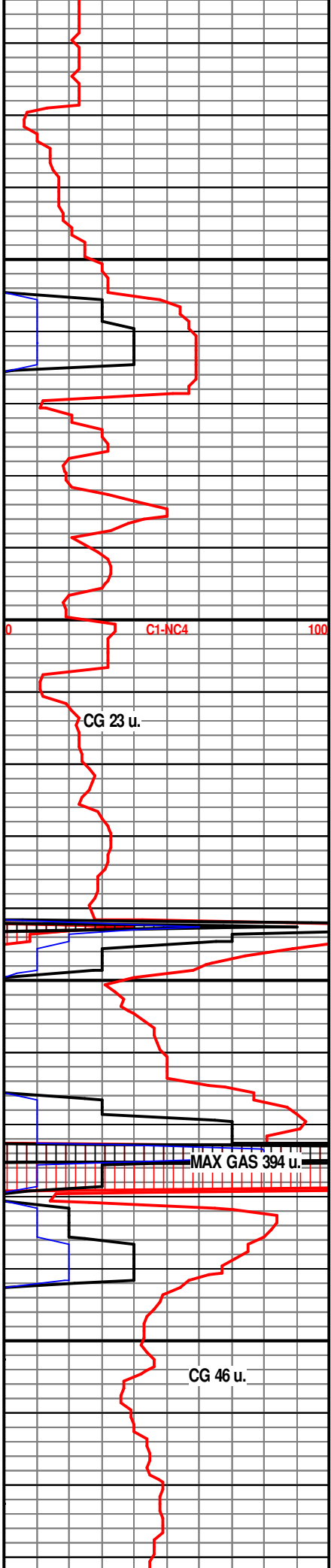
**Cherokee @ 4,649' MD
4,551' TVD**

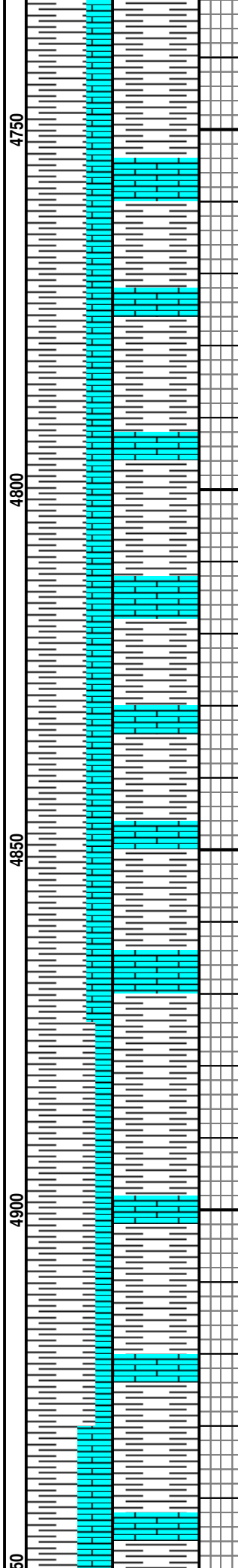
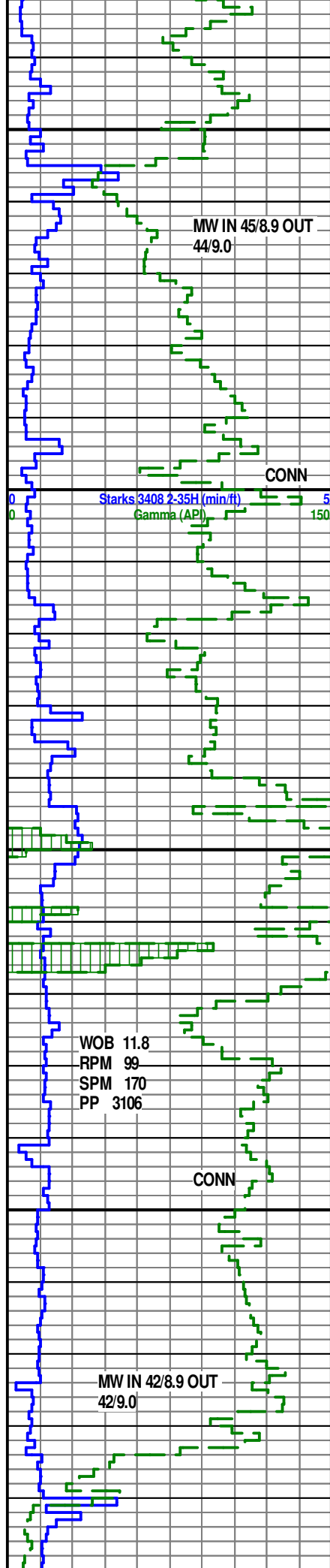
LS: 60% Gry-ltGry, sft-m frm, vf xln-mic xln, dull, dol; SH: 40% Blk-dk Gry-lt Brn, sft-frm, sb blk-y-blky, intlam, dull; lt YI flor, no ring/cut

SD: 4707.00
Inc: 49.76
Azi: 0.02
TVD: 4589.14
VS: 367.02

**Verdigris @ 4,713' MD
4,591' TVD**

LS: 30% Gry-ltGry, sft-m frm, vf xln-mic xln, dull, dol; SH: 70% Blk-





Gry, sft frm, sb blk-plty, intlam, dull; YI flor, no ring vlt Wht cut

SD: 4771.00
Inc: 49.75
Azi: 358.84
TVD: 4630.49
VS: 415.86

LS: 30% Gry-ltGry, sft-m frm, vf xln-mic xln, dull, dol; SH: 70% Blk-Gry, sft frm, sb blk-plty, intlam, dull; YI flor, no ring vlt Wht cut

SD: 4802.00
Inc: 49.99
Azi: 359.22
TVD: 4650.47
VS: 439.56

LS: 30% Gry-ltGry, sft-m frm, vf xln-mic xln, dull, dol; SH: 70% Blk-Gry, sft frm, sb blk-plty, intlam, dull; YI flor, no ring vlt Wht cut

SD: 4833.00
Inc: 50.47
Azi: 359.90
TVD: 4670.30
VS: 463.39

LS: 30% Gry-ltGry, sft-m frm, vf xln-mic xln, dull, dol; SH: 70% Blk-Gry-YI, sft frm, sb blk-plty, intlam, dull; YI flor, no ring vlt Wht cut

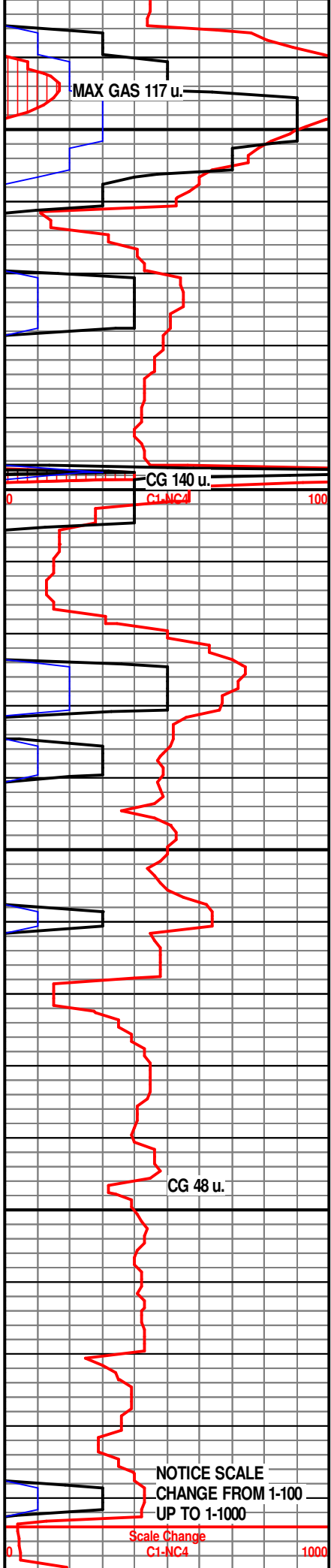
SD: 4865.00
Inc: 52.95
Azi: 359.27
TVD: 4690.13
VS: 488.50

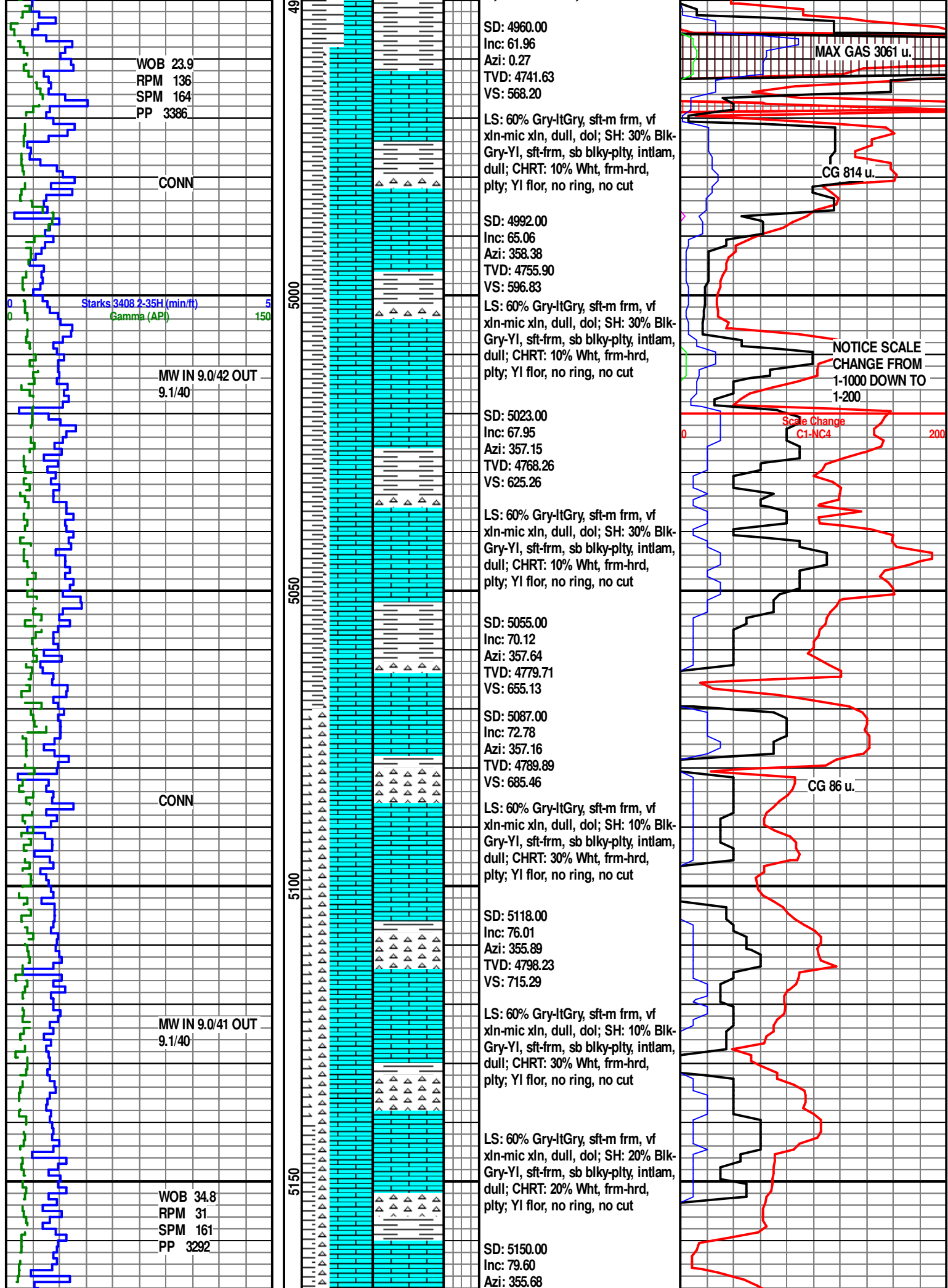
SD: 4897.00
Inc: 55.62
Azi: 359.29
TVD: 4708.80
VS: 514.47

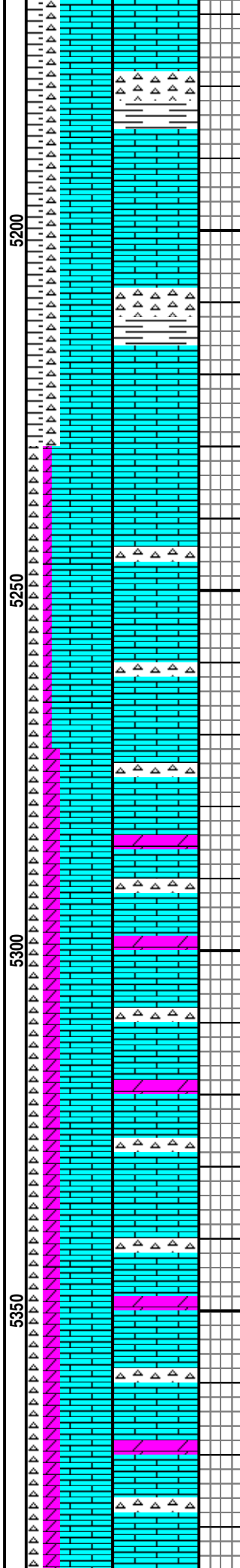
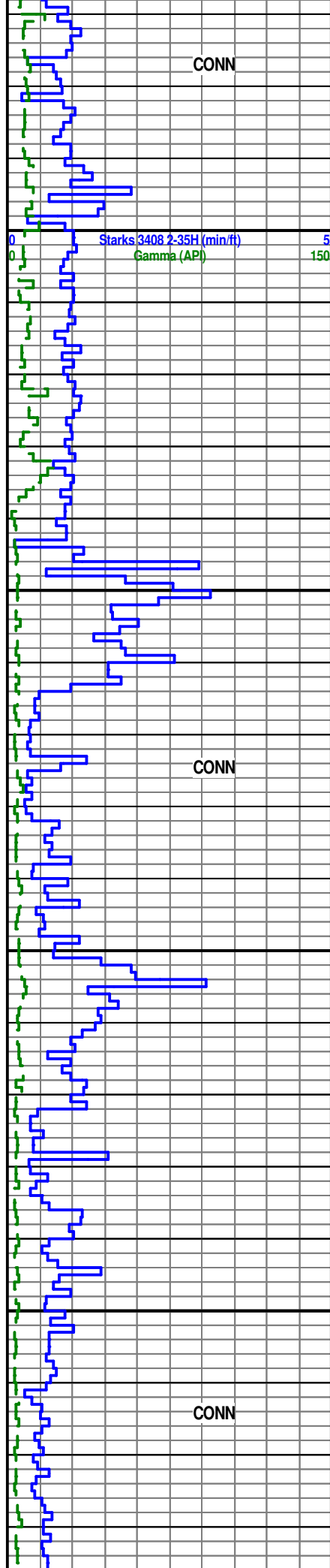
LS: 20% Gry-ltGry, sft-m frm, vf xln-mic xln, dull, dol; SH: 80% Blk-Gry-YI, sft frm, sb blk-plty, intlam, dull; YI flor, no ring, no cut

SD: 4928.00
Inc: 58.32
Azi: 359.20
TVD: 4725.70
VS: 540.46

Mississippi Lime @
4,941' MD 4,732' TVD







TVD: 4804.99
VS: 746.53

SD: 5181.00
Inc: 83.46
Azi: 357.03
TVD: 4809.55
VS: 777.16

SD: 5213.00
Inc: 86.24
Azi: 356.73
TVD: 4812.42
VS: 809.01

LS: 60% Gry-ltGry, sft-m frm, vf xln-mic xln, dull, dol; SH: 20% Blk-Gry-Yl, sft-frm, sb blk-y-plty, intlrm, dull; CHRT: 20% Wht, frm-hrd, plty; Yl flor, no ring, no cut

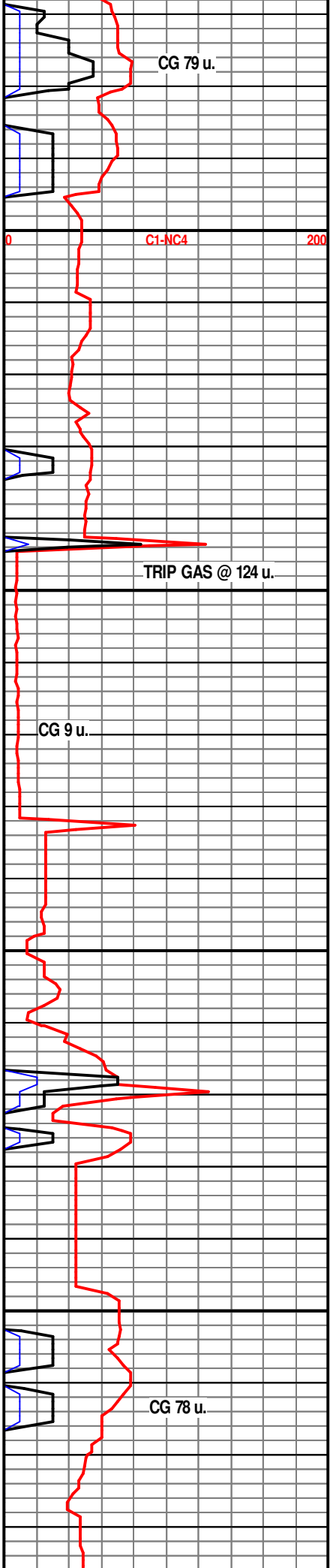
TD @ 5,243' MD for Intermediate Casing

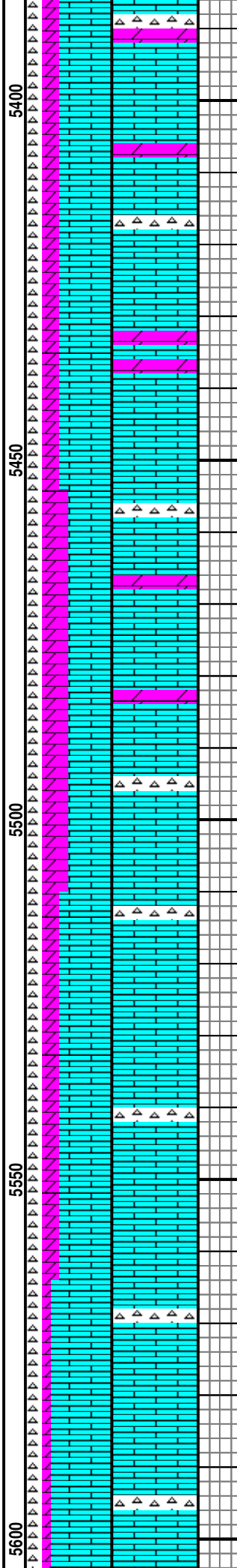
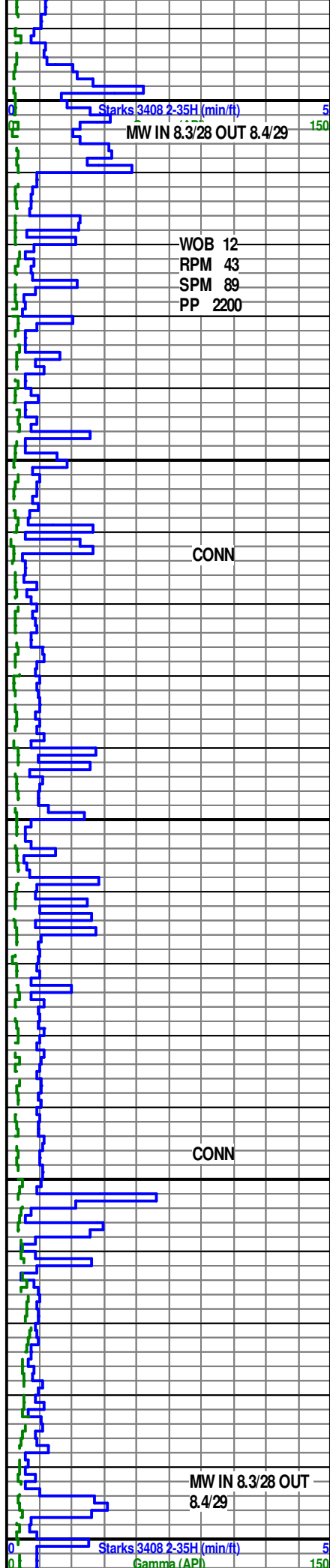
SD: 5259.00
Inc: 89.51
Azi: 358.59
TVD: 4814.13
VS: 854.97

LS: 70% Wht-ltGry, sft-m frm, vf xln-mic xln, dull; Dol: 15% off Wht, lt Brn, frm-hrd, blk dull; CHRT: 15% Wht, frm-hrd, plty; no fluor, no ring, no cut

SD: 5320.00
Inc: 91.08
Azi: 359.01
TVD: 4813.82
VS: 915.96

LS: 65% Wht-ltGry, sft-m frm, vf xln-mic xln, dull; Dol: 20% off Wht, lt Brn, frm-hrd, blk dull; CHRT: 15% Wht, frm-hrd, plty; sme Yl fluor, no ring, no cut





LS: 65% Wht-ItGry, sft-m frm, vf xln-mic xln, dull; Dol: 20% off Wht, It Brn, frm-hrd, blkly dull; CHRT: 15% Wht, frm-hrd, plty; Scat YI flor, no ring, no cut

SD: 5415.00
Inc: 91.91
Azi: 359.36
TVD: 4811.34
VS: 1010.92

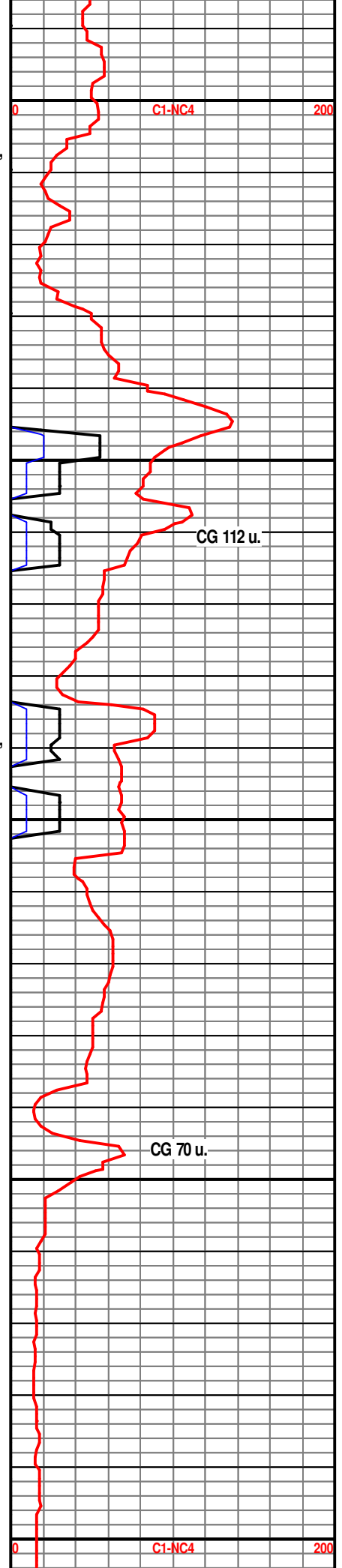
LS: 50% Wht-ItGry, sft-m frm, vf xln-mic xln, dull; Dol: 35% off Wht, It Brn, frm-hrd, blkly dull; CHRT: 15% Wht, frm-hrd, plty; Scat YI flor, no ring, no cut

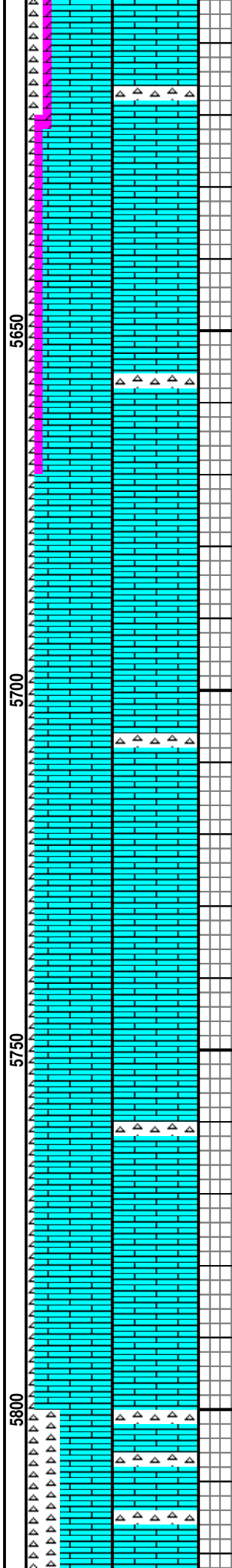
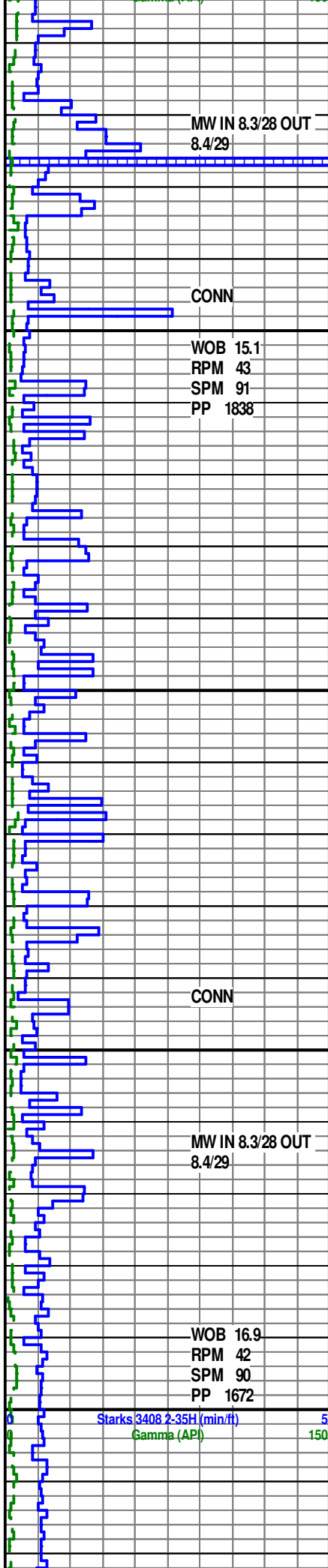
SD: 5509.00
Inc: 91.84
Azi: 358.96
TVD: 4808.26
VS: 1104.87

LS: 80% Wht-ItGry, sft-m frm, vf xln-mic xln, dull; CHRT: 20% Wht, frm-hrd, plty; Scat YI flor, no ring, no cut

LS: 80% Wht-ItGry, sft-m frm, vf xln-mic xln, dull; CHRT: 20% Wht, frm-hrd, plty; Scat YI flor, no ring, no cut

SD: 5604.00
Inc: 91.53
Azi: 359.33
TVD: 4805.47
VS: 1199.82





LS: 80% Wht-ItGry, sft-m frm, vf xln-mic xln, dull; CHRT: 20% Wht, frm-hrd, plty; Scat YI flor, no ring, no cut

LS: 90% Wht-ItGry, sft-m frm, vf xln-mic xln, dull; CHRT: 10% Wht, frm-hrd, plty; Scat YI flor, no ring, no cut

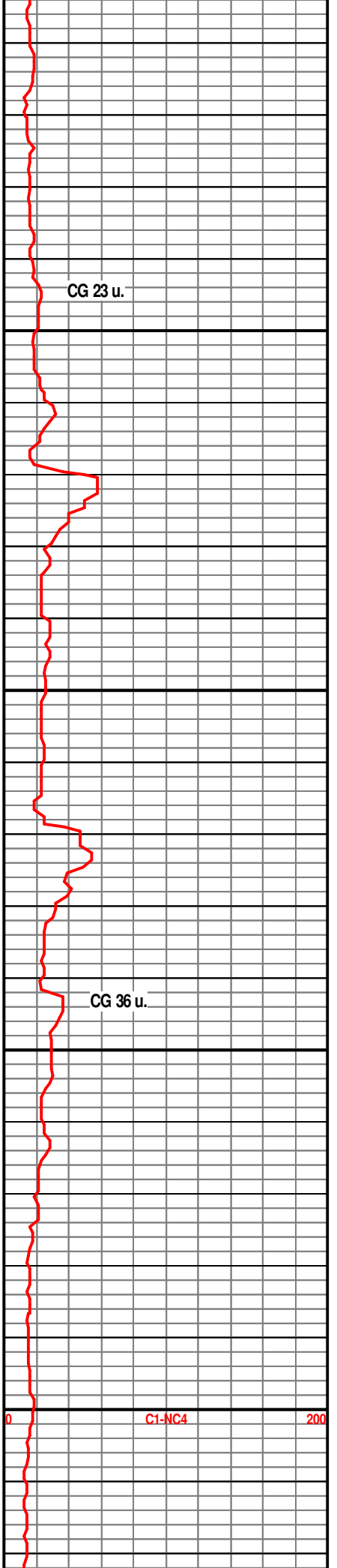
SD: 5699.00
Inc: 92.21
Azi: 358.48
TVD: 4802.37
VS: 1294.77

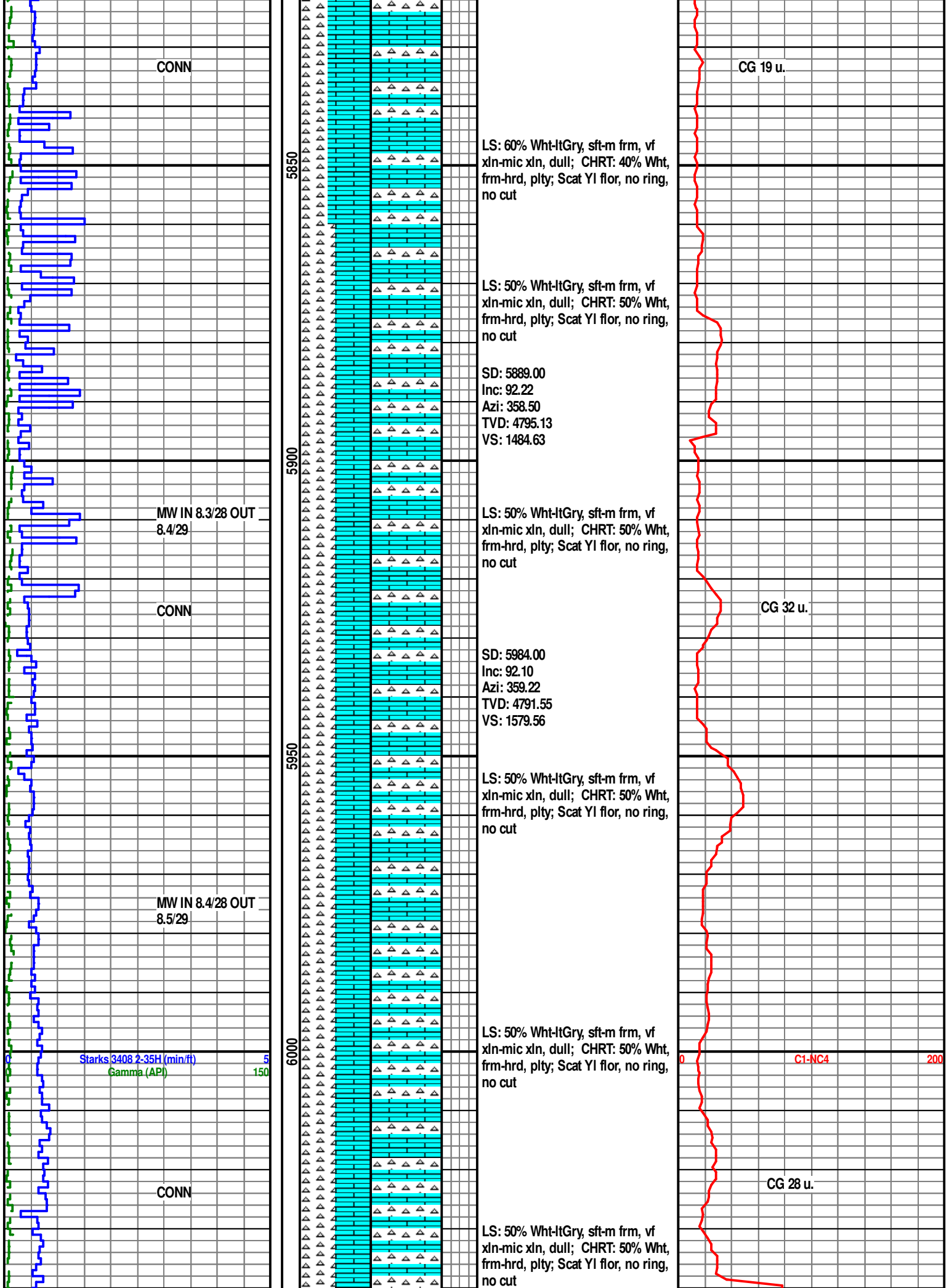
LS: 90% Wht-ItGry, sft-m frm, vf xln-mic xln, dull; CHRT: 10% Wht, frm-hrd, plty; Scat YI flor, no ring, no cut

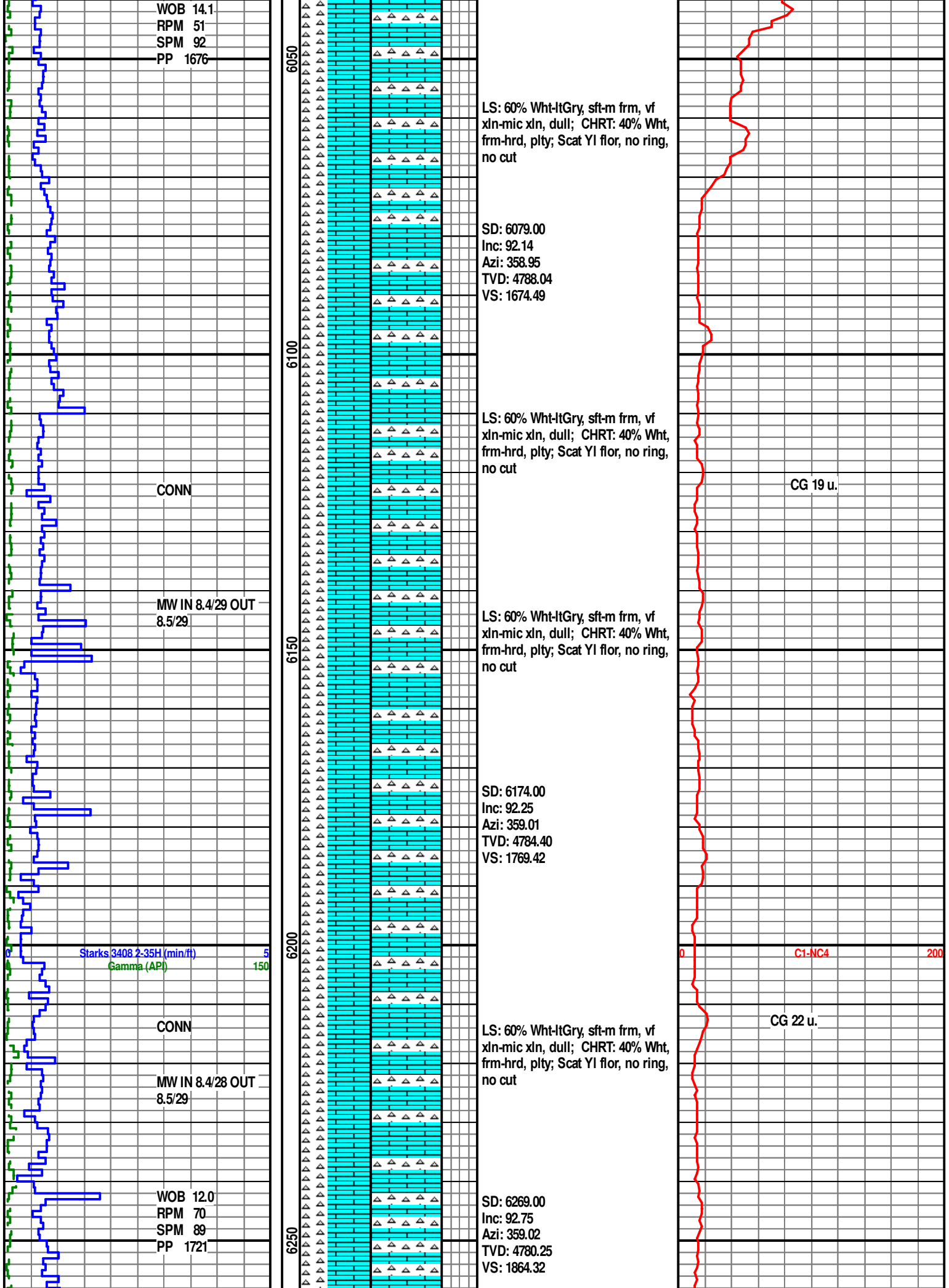
LS: 90% Wht-ItGry, sft-m frm, vf xln-mic xln, dull; CHRT: 10% Wht, frm-hrd, plty; Scat YI flor, no ring, no cut

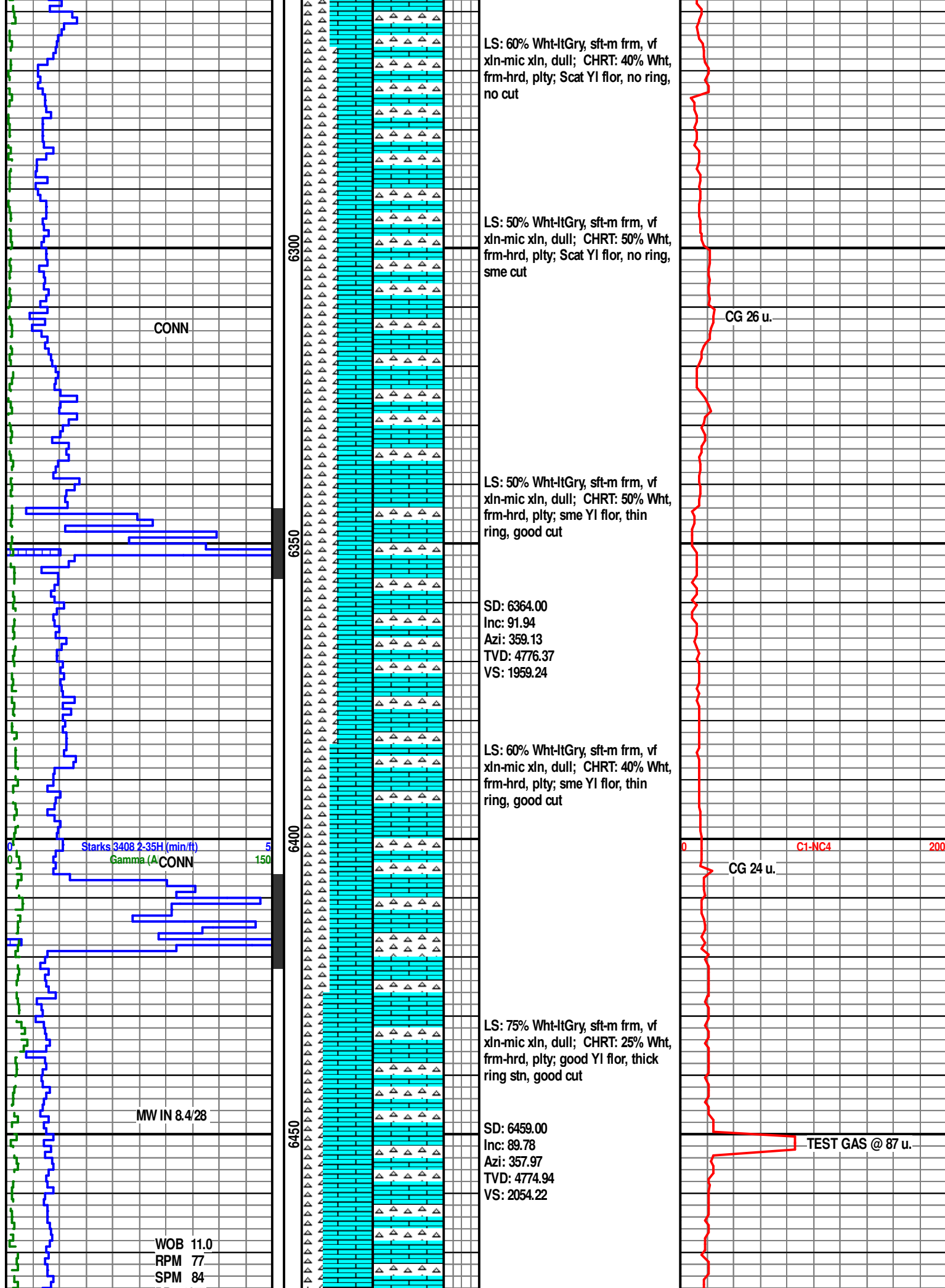
SD: 5794.00
Inc: 92.15
Azi: 359.34
TVD: 4798.75
VS: 1389.70

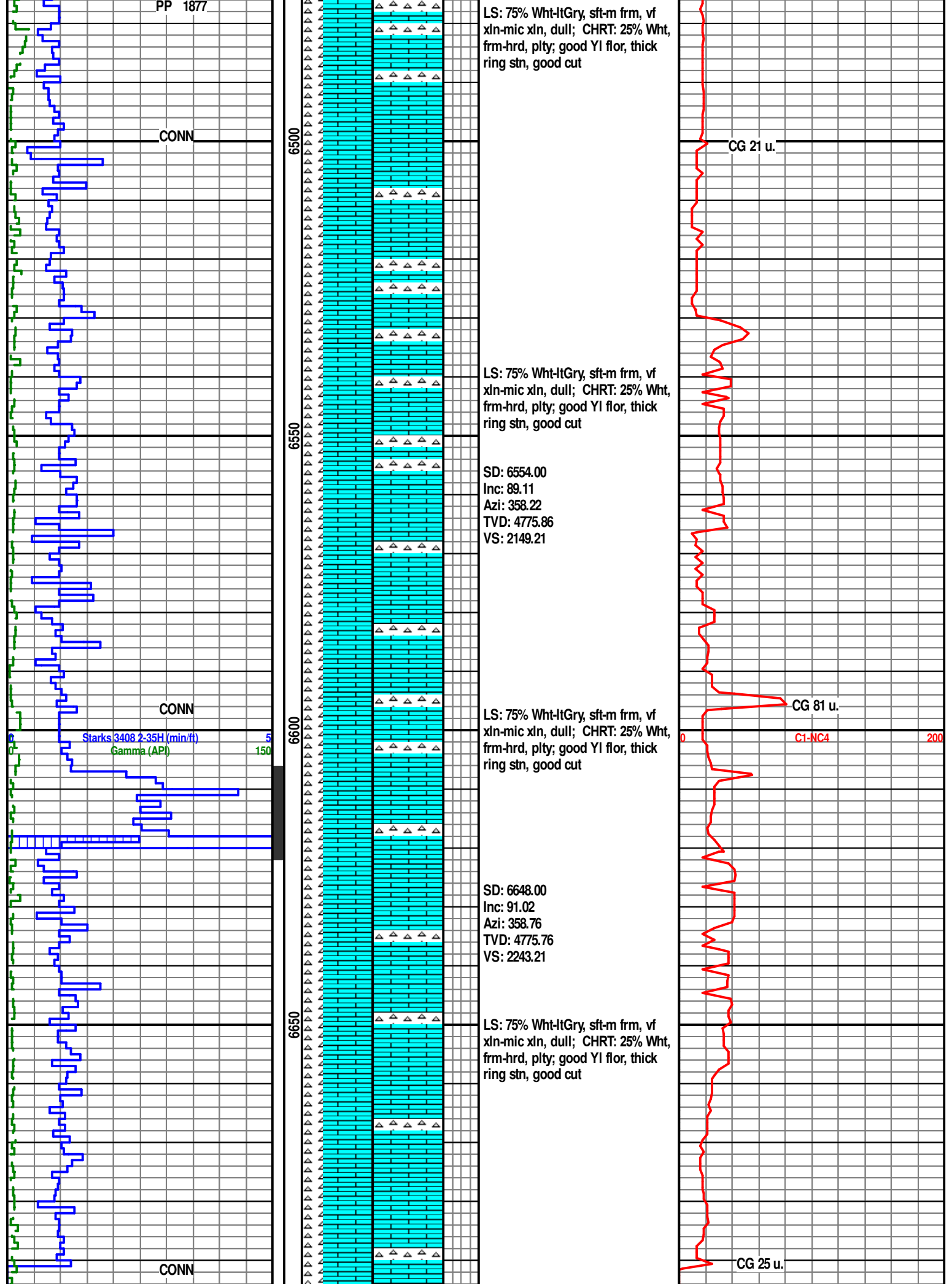
LS: 60% Wht-ItGry, sft-m frm, vf xln-mic xln, dull; CHRT: 40% Wht, frm-hrd, plty; Scat YI flor, no ring, no cut











CONN

6500

LS: 75% Wht-ItGry, sft-m frm, vf
xln-mic xln, dull; CHRT: 25% Wht,
frm-hrd, plty; good YI flor, thick
ring stn, good cut

CG 21 u.

6550

LS: 75% Wht-ItGry, sft-m frm, vf
xln-mic xln, dull; CHRT: 25% Wht,
frm-hrd, plty; good YI flor, thick
ring stn, good cut

SD: 6554.00
Inc: 89.11
Azi: 358.22
TVD: 4775.86
VS: 2149.21

CONN

6600

LS: 75% Wht-ItGry, sft-m frm, vf
xln-mic xln, dull; CHRT: 25% Wht,
frm-hrd, plty; good YI flor, thick
ring stn, good cut

CG 81 u.

Starks 3408 2-35H (min-ft) 5
Gamma (API) 150

SD: 6648.00
Inc: 91.02
Azi: 358.76
TVD: 4775.76
VS: 2243.21

C1-NC4 200

6650

LS: 75% Wht-ItGry, sft-m frm, vf
xln-mic xln, dull; CHRT: 25% Wht,
frm-hrd, plty; good YI flor, thick
ring stn, good cut

CG 25 u.

CONN

LOST
CONNECTION
FROM POWER
OUTAGE

WOB 13.0
RPM 46
SPM 84
PP 1877

CONN

Starks 3408 2-35H (min/ft)
Gamma (API)

MW IN 8.4/29 OUT
8.4/29

CONN

LOST
CONNECTION
FROM POWER
OUTAGE

WOB 13.0
RPM 46
SPM 84
PP 1877

CONN

Starks 3408 2-35H (min/ft)
Gamma (API)

MW IN 8.4/29 OUT
8.4/29

CONN

LOST
CONNECTION
FROM POWER
OUTAGE

WOB 13.0
RPM 46
SPM 84
PP 1877

CONN

Starks 3408 2-35H (min/ft)
Gamma (API)

MW IN 8.4/29 OUT
8.4/29

CONN

6.900 6.850 6.800 6.750 6.700

LOST CONNECTION FROM POWER OUTAGE

CG 12 u.

CG 15 u.

GAS TEST @ 202 u.

C1-NC4

200

LOST CONNECTION FROM POWER OUTAGE

CG 12 u.

GAS TEST @ 202 u.

0 C1-NC4 200

CG 15 u.

LOST CONNECTION FROM POWER OUTAGE

CG 12 u.

CG 15 u.

GAS TEST @ 202 u.

C1-NC4

0 200

LOST
CONNECTION
FROM POWER
OUTAGE

CG 12 u.

GAS TEST @ 202 u.

C1-NC4

200

CG 15 u.

LOST
CONNECTION
FROM POWER
OUTAGE

CG 12 u.

GAS TEST @ 202 u.

C1-NC4

200

CG 15 u.

LOST
CONNECTION
FROM POWER
OUTAGE

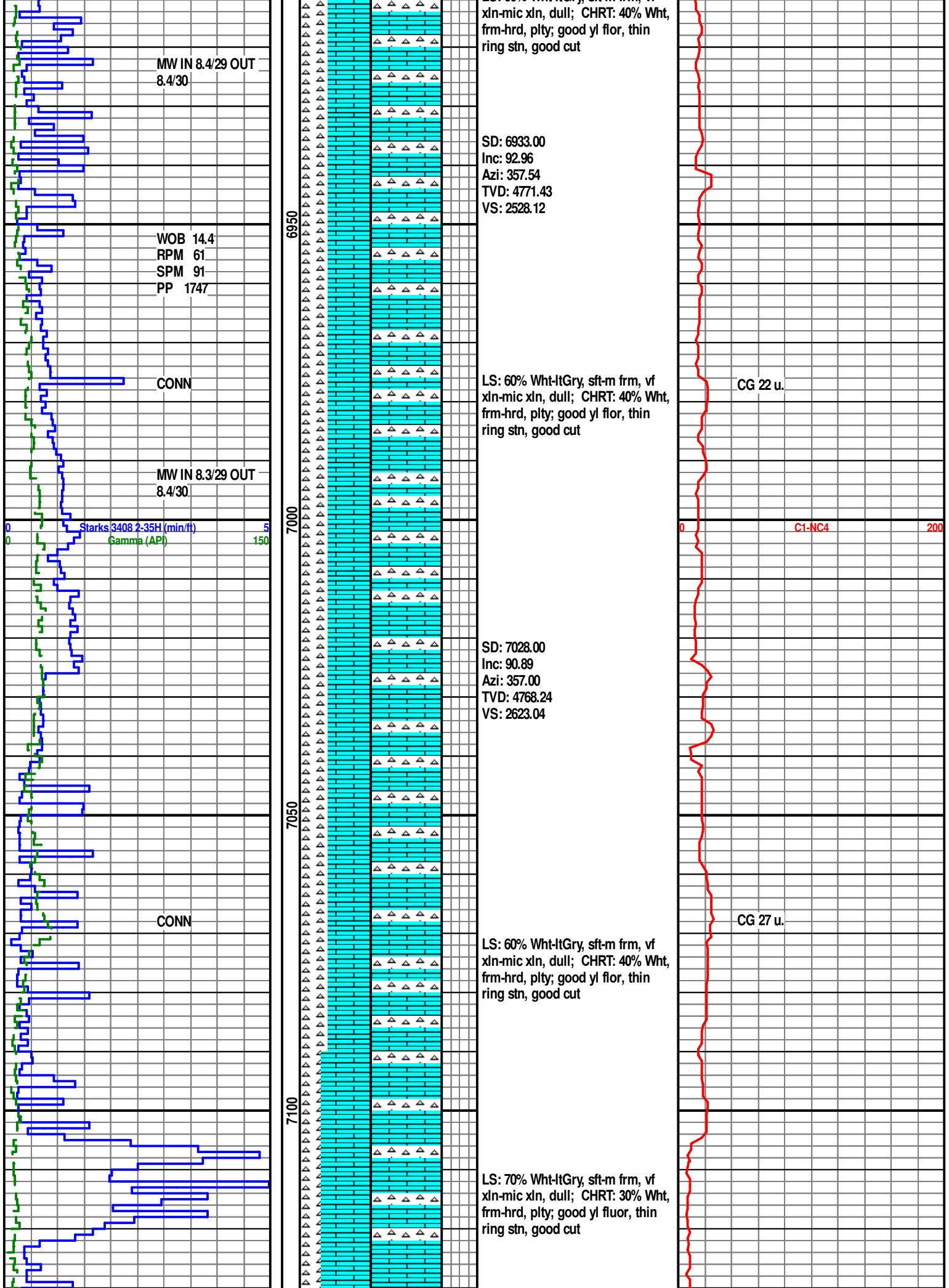
CG 12 u.

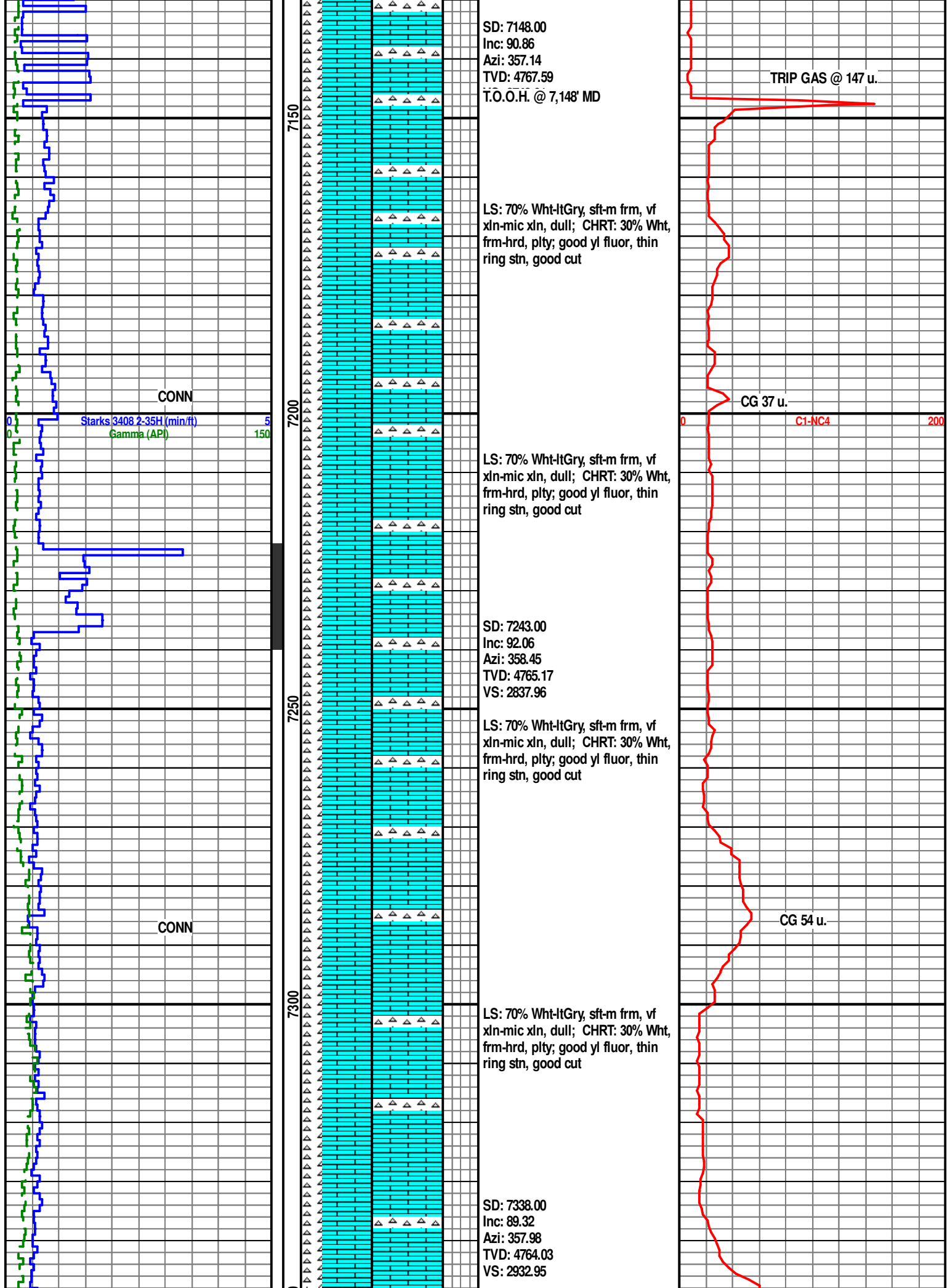
GAS TEST @ 202 u.

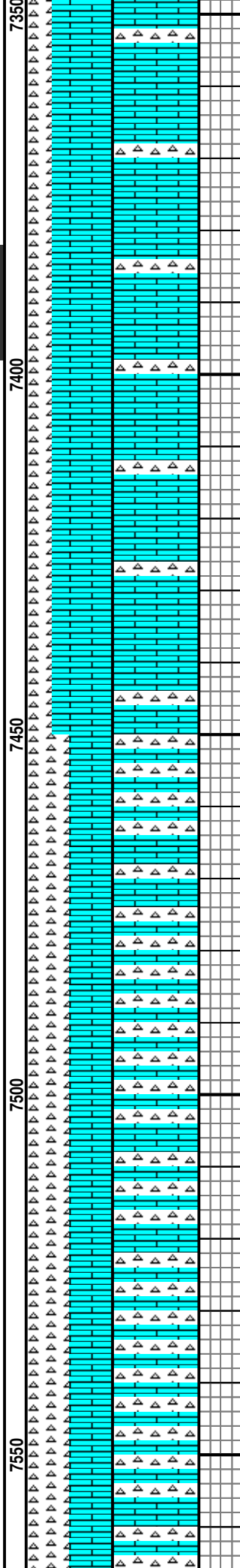
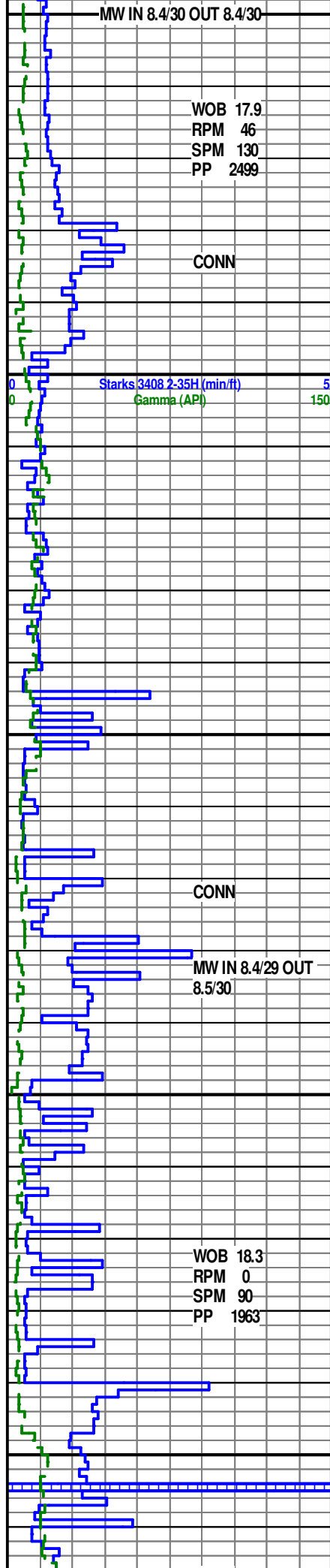
C1-NC4

200

CG 15 u.







LS: 70% Wht-ItGry, sft-m frm, vf xln-mic xln, dull; CHRT: 30% Wht, frm-hrd, plty; good yl fluor, thin ring stn, good cut

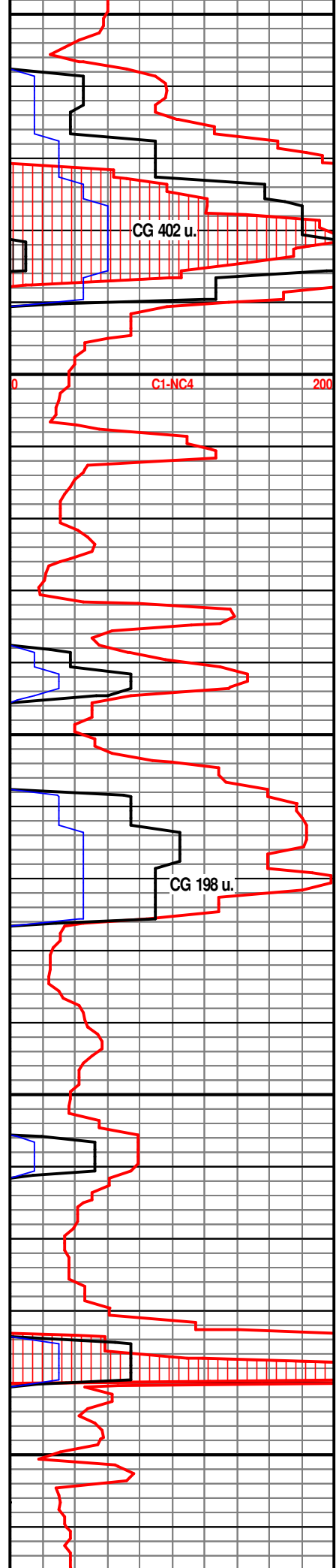
LS: 70% Wht-ItGry, sft-m frm, vf xln-mic xln, dull; CHRT: 30% Wht, frm-hrd, plty; good yl fluor, thin ring stn, good cut

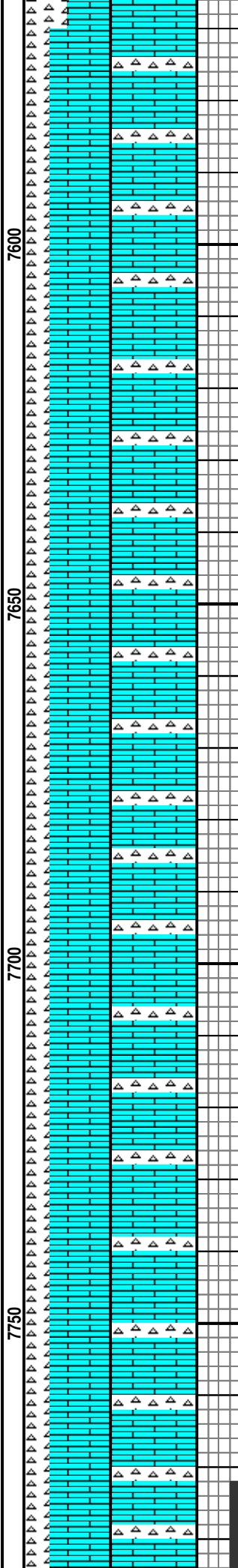
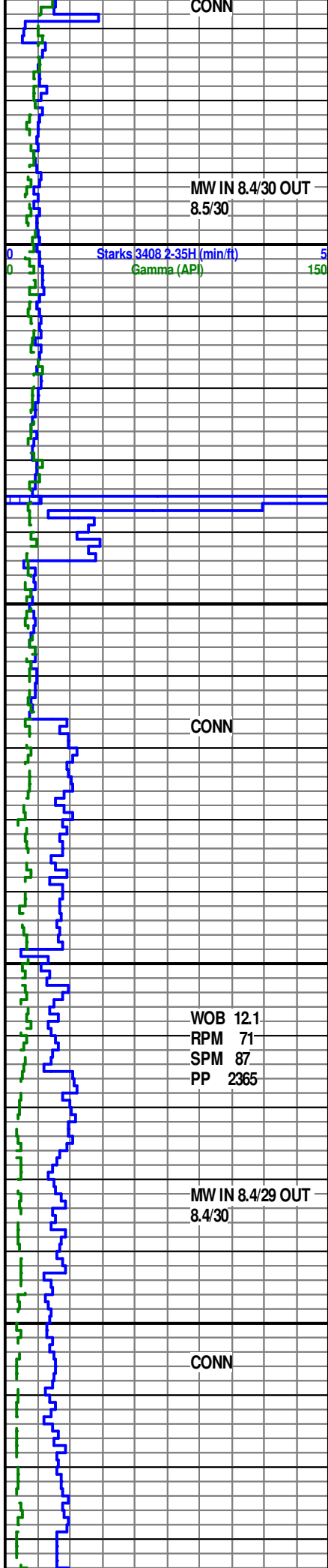
SD: 7433.00
Inc: 90.09
Azi: 358.31
TVD: 4764.51
VS: 3027.94

LS: 50% Wht-ItGry, sft-m frm, vf xln-mic xln, dull; CHRT: 50% Wht, frm-hrd, plty; good yl fluor, thin ring stn, good cut

SD: 7528.00
Inc: 92.18
Azi: 358.01
TVD: 4762.63
VS: 3122.91

LS: 50% Wht-ItGry, sft-m frm, vf xln-mic xln, dull; CHRT: 50% Wht, frm-hrd, plty; good yl fluor, thin ring stn, good cut





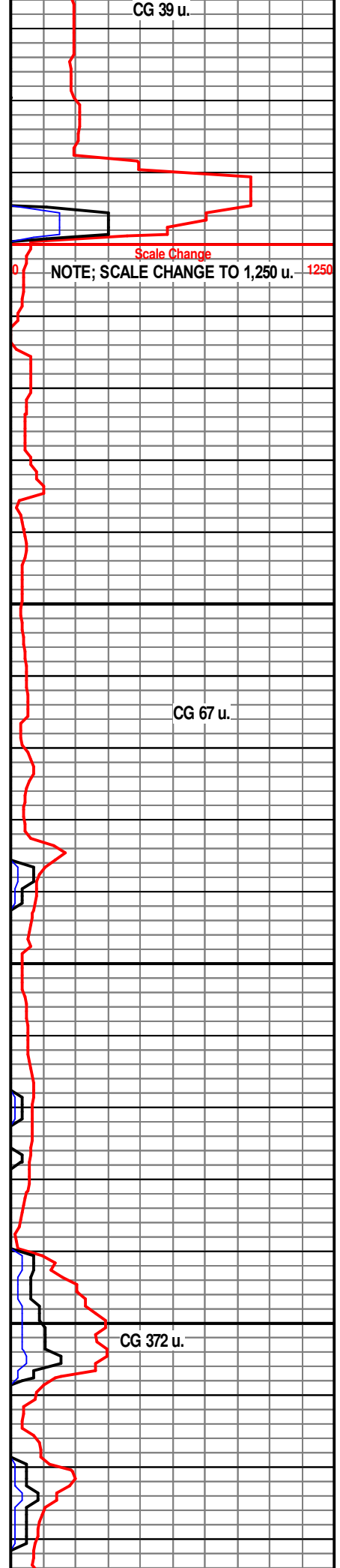
LS: 70% Wht-ltGry, sft-m frm, vf xln-mic xln, dull; CHRT: 30% Wht, frm-hrd, plty; good yl fluor, thin ring stn, good cut

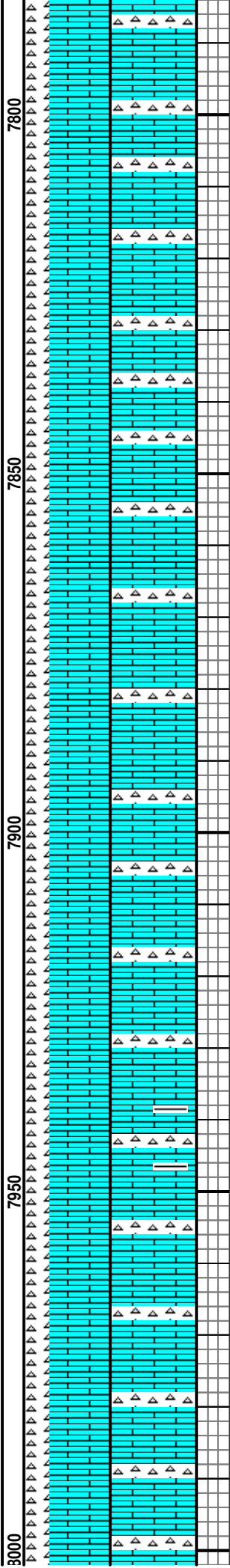
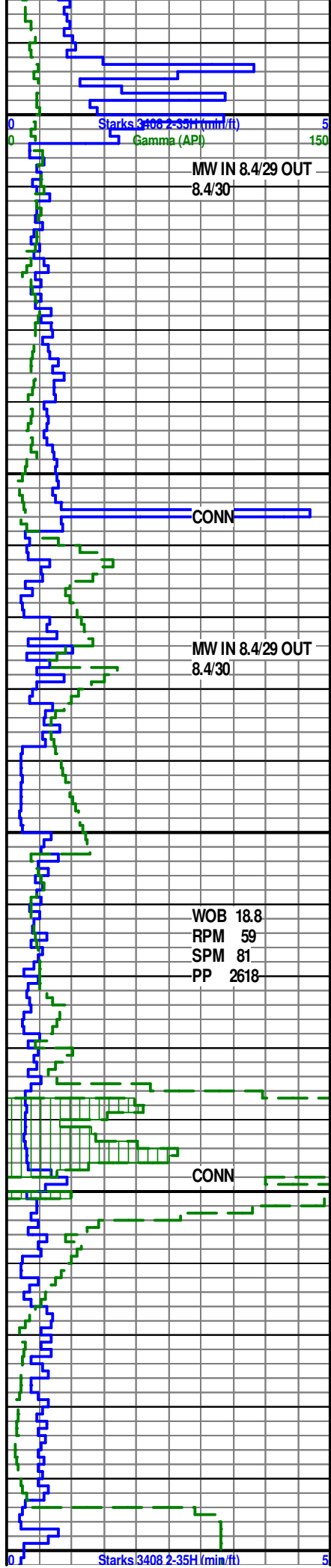
SD: 7623.00
Inc: 94.08
Azi: 358.49
TVD: 4757.45
VS: 3217.77

LS: 70% Wht-ltGry, sft-m frm, vf xln-mic xln, dull; CHRT: 30% Wht, frm-hrd, plty; good yl fluor, thin ring stn, good cut

SD: 7718.00
Inc: 92.86
Azi: 357.62
TVD: 4751.70
VS: 3312.58

LS: 70% Wht-ltGry, sft-m frm, vf xln-mic xln, dull; CHRT: 30% Wht, frm-hrd, plty; good yl fluor, thin ring stn, good cut





LS: 70% Wht-ltGry, sft-m frm, vf xln-mic xln, dull; CHRT: 30% Wht, frm-hrd, plty; good yl fluor, thin ring strn, good cut

SD: 7812.00
Inc: 91.18
Azi: 357.24
TVD: 4748.38
VS: 3406.50

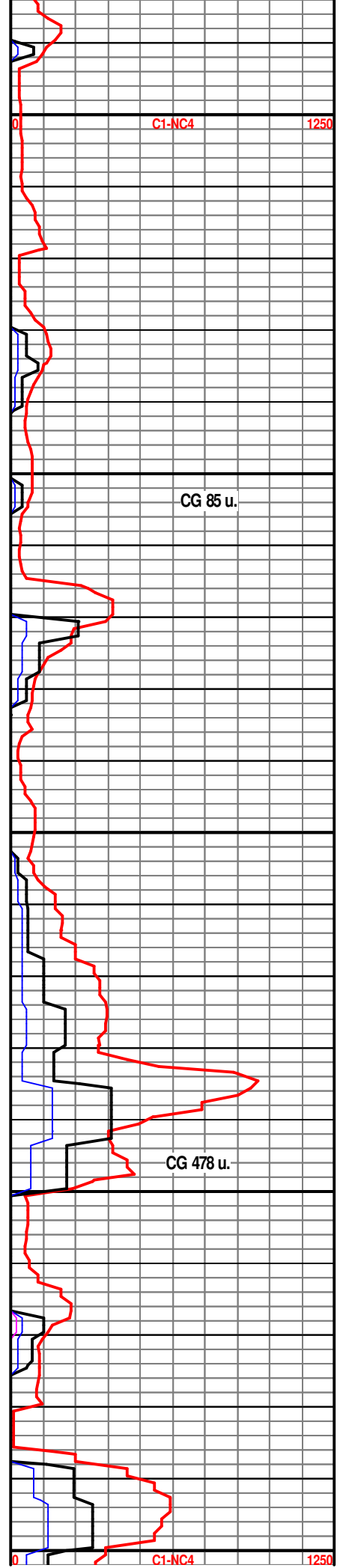
LS: 70% Wht-ltGry, sft-m frm, vf xln-mic xln, dull; CHRT: 30% Wht, frm-hrd, plty; good yl fluor, thin ring strn, good cut

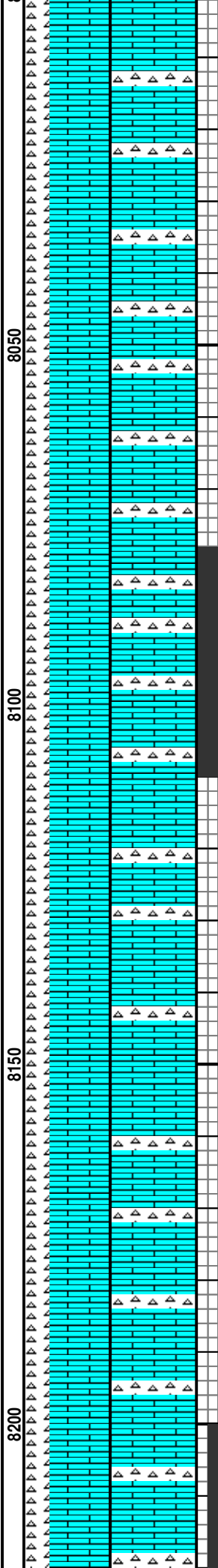
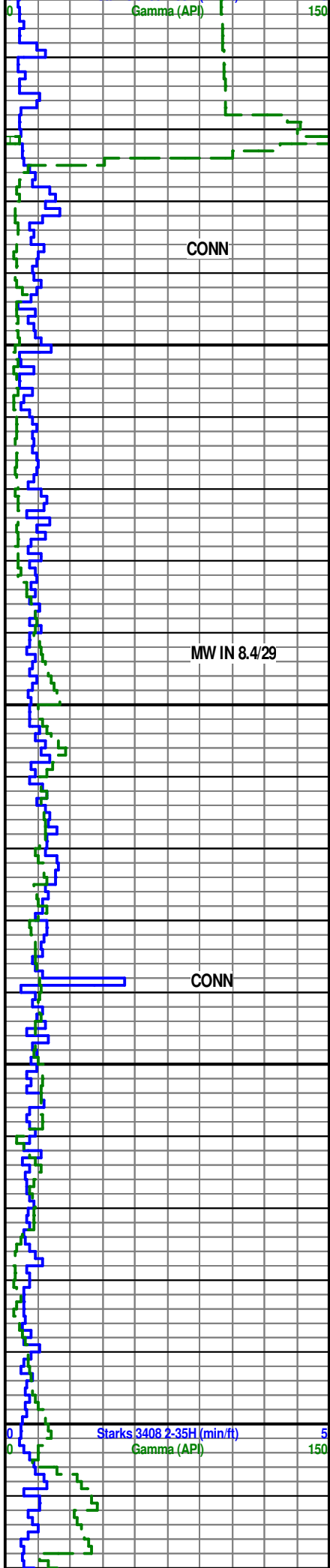
SD: 7907.00
Inc: 90.99
Azi: 357.60
TVD: 4746.58
VS: 3501.47

POSSIBLE SHALE STRINGER

LS: 70% Wht-ltGry, sft-m frm, vf xln-mic xln, dull; CHRT: 30% Wht, frm-hrd, plty; good yl fluor, thin ring strn, good cut

SD: 8002.00
Inc: 91.39
Azi: 357.50
TVD: 4746.58
VS: 3501.47





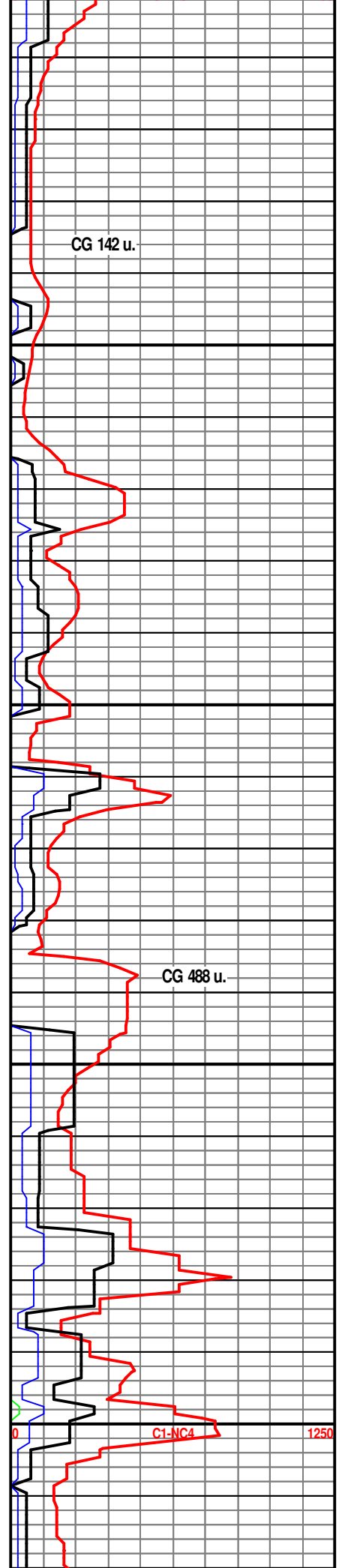
AZI: 336.50
TVD: 4744.61
VS: 3596.41

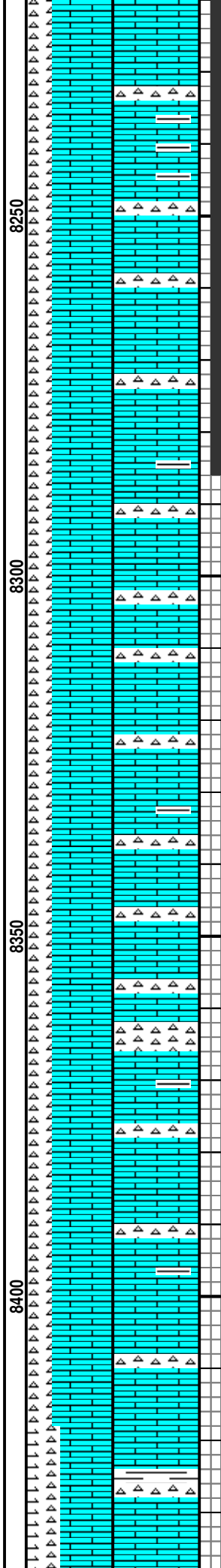
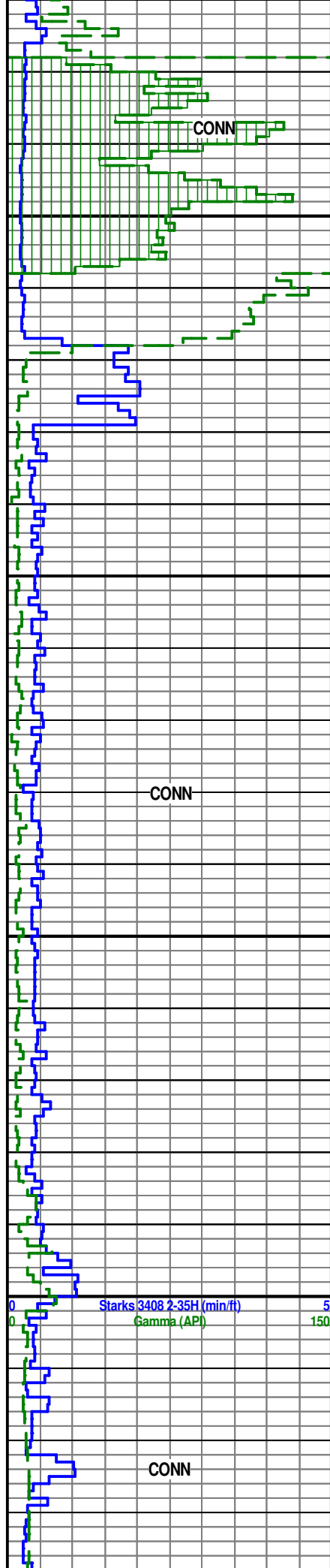
LS: 70% Wht-ltGry, sft-m frm, vf xln-mic xln, dull; CHRT: 30% Wht, frm-hrd, plty; good yl fluor, thin ring stn, good cut

LS: 70% Wht-ltGry, sft-m frm, vf xln-mic xln, dull; CHRT: 30% Wht, frm-hrd, plty; good yl fluor, thin ring stn, good cut

LS: 70% Wht-ltGry, sft-m frm, vf xln-mic xln, dull; CHRT: 30% Wht, frm-hrd, plty; good yl fluor, thin ring stn, good cut

LS: 70% Wht-ltGry, sft-m frm, vf xln-mic xln, dull; CHRT: 28% Wht, frm-hrd, plty; good yl fluor, thin ring stn, good cut SH:tr% gy to dk-gy tr grn frm blk-y wxy-rthy.



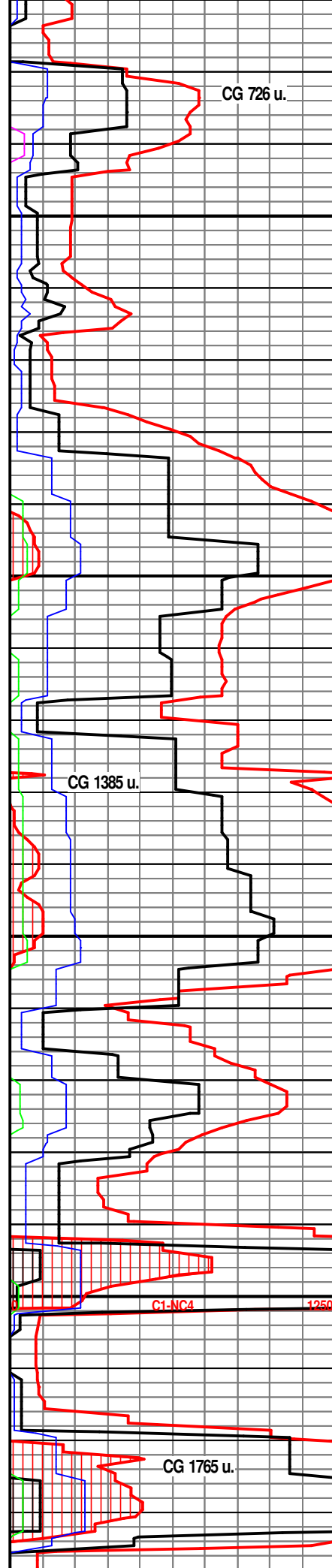


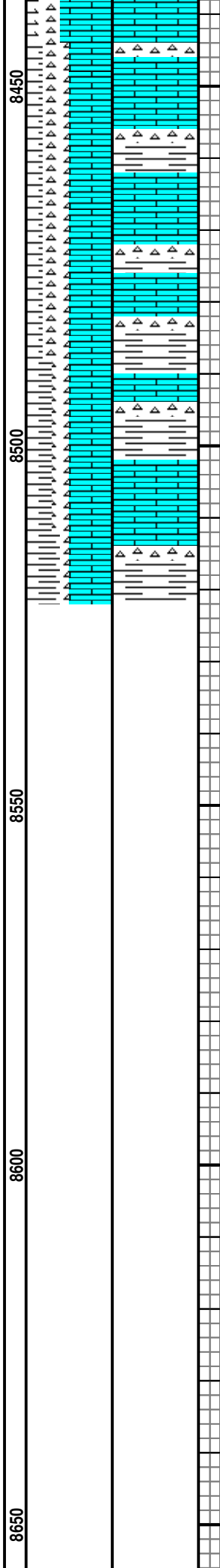
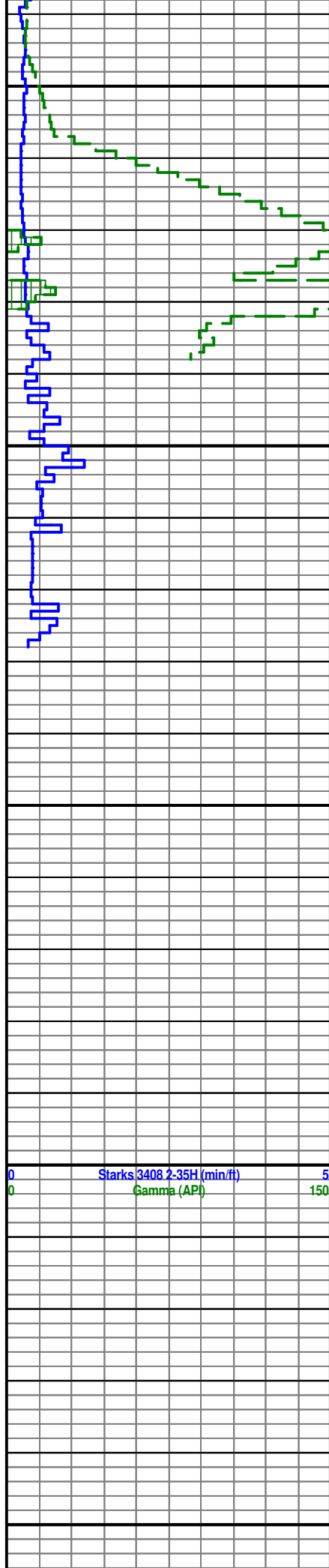
SHALE STRINGER

LS: 70% Wht-ltGry, sft-m frm, vf xln-mic xln, dull; CHRT: 28% Wht, frm-hrd, plty; good yl fluor, thin ring stn, good cut SH:tr% gy to dk-gy tr grn frm blkx wxy-rthy.

LS: 70% Wht-ltGry, sft-m frm, vf xln-mic xln, dull; CHRT: 28% Wht, frm-hrd, plty; good yl fluor, thin ring stn, good cut SH:tr% gy to dk-gy tr grn frm blkx wxy-rthy.

LS: 70% Wht-ltGry, sft-m frm, vf xln-mic xln, dull; CHRT: 25% Wht, frm-hrd, plty; good yl fluor, thin ring stn, good cut SH:5% gy to dk-gy tr grn frm blkx wxy-rthy.



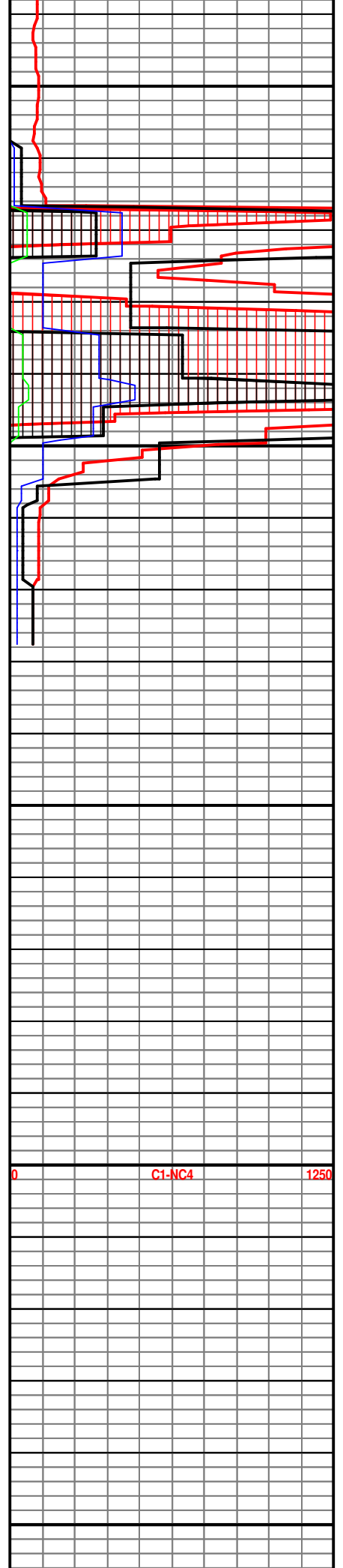


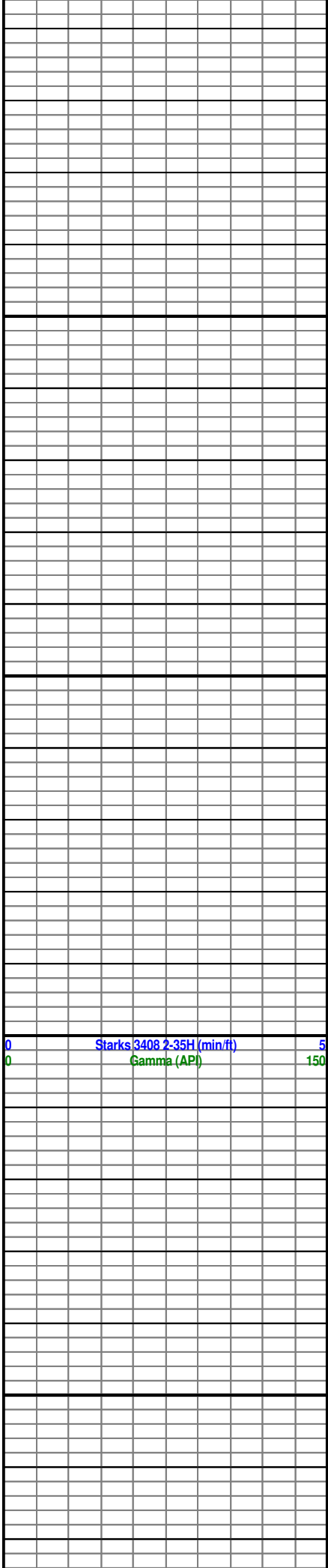
LS: 65% Wht-ltGry, sft-m frm, vf xln-mic xln, dull; CHRT: 20% Wht, frm-hrd, plty; good yl fluor, thin ring stn, good cut SH:15% gy to dk-gy tr grn frm blk y wxy-rthy.

LS: 50% Wht-ltGry, sft-m frm, vf xln-mic xln, dull; CHRT: 10% Wht, frm-hrd, plty; good yl fluor, thin ring stn, good cut SH:40% gy to dk-gy tr red tr grn frm blk y wxy-rthy.

THIS SAMPLE INDICATING POSSIBLE TOP OF MISSISSIPPI LIME

TD WELL @ 8,536'



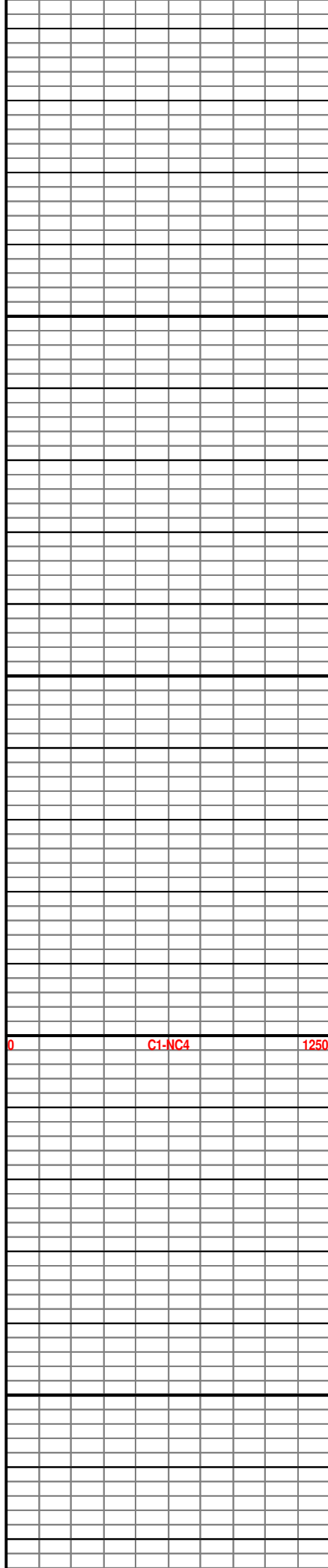
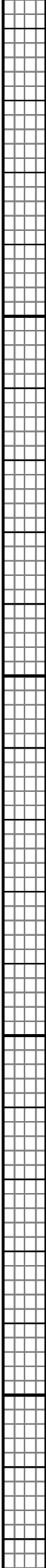


8700

8750

8800

8850



0

C1-NC4

1250

