www.pmles.com

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

Well Name:	Jennifer 3408 3-34H		
Location:	34-34S-8W	Harper County	
Licence Number:	15-077-21897-01-00	Region:	Kansas
Spud Date:	12/07/2012	Drilling Completed:	
Surface Coordinates:	225' FSL & 2,220' FWL OF Section 34-34S-8W		
Bottom Hole Coordinates:	330' FNL & 1,980' FWL OF Section 34-34S-8W		
Ground Elevation (ft):	1,263'	K.B. Elevation (ft):	1,283' (+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

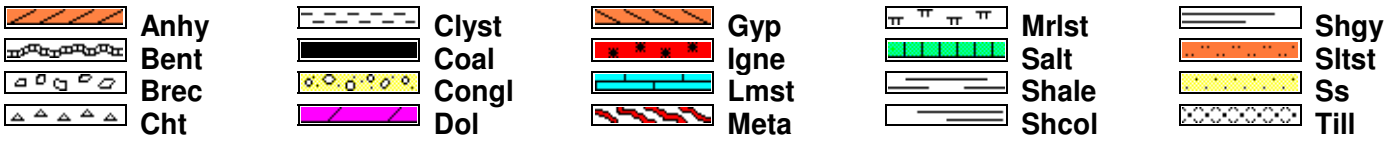
MUD LOG

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

CONTRACTOR

Unit Rig 310

ROCK TYPES



ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE

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

OTHER SYMBOLS

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

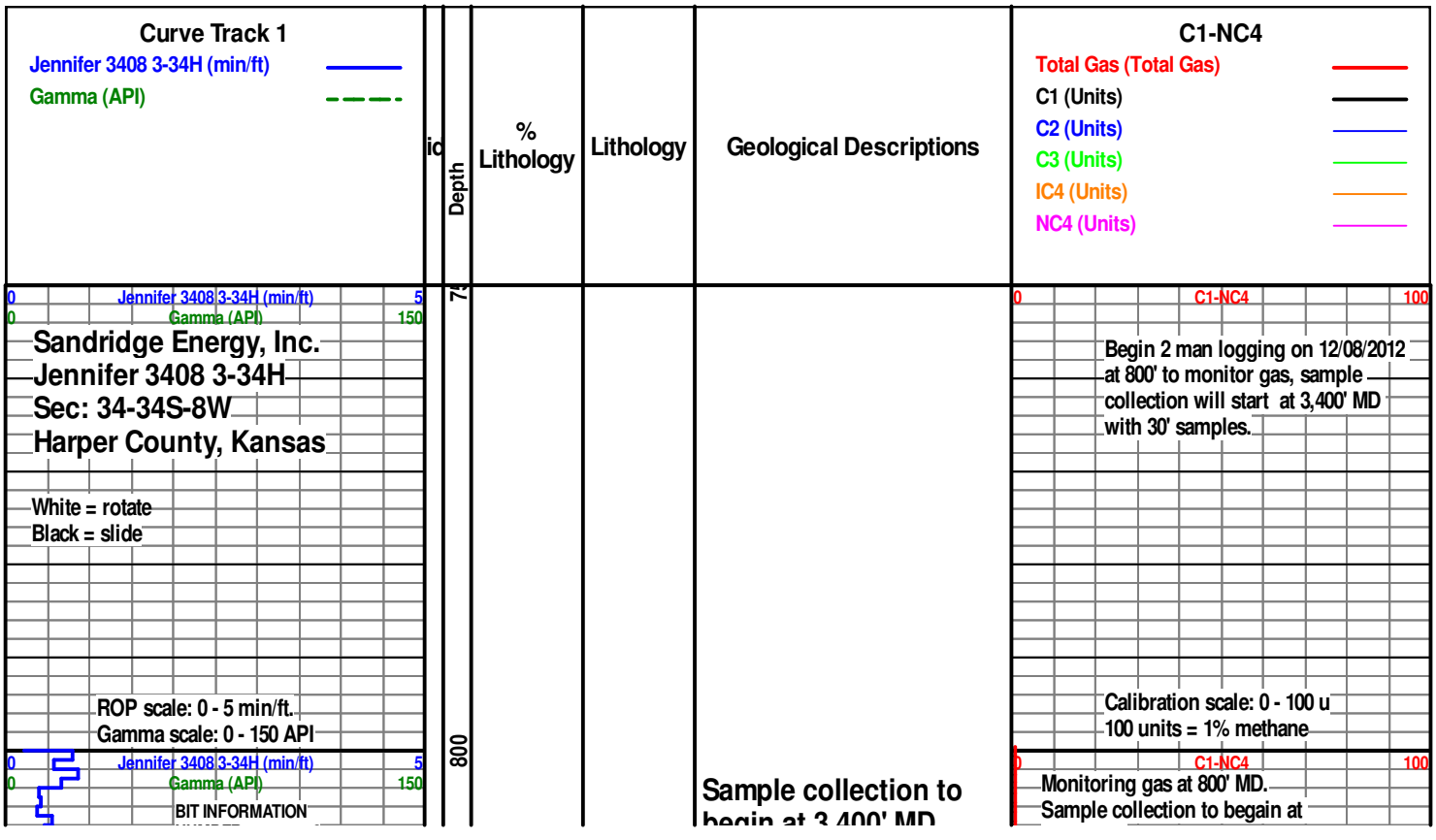
- Even
- Spotted
- Ques
- Dead

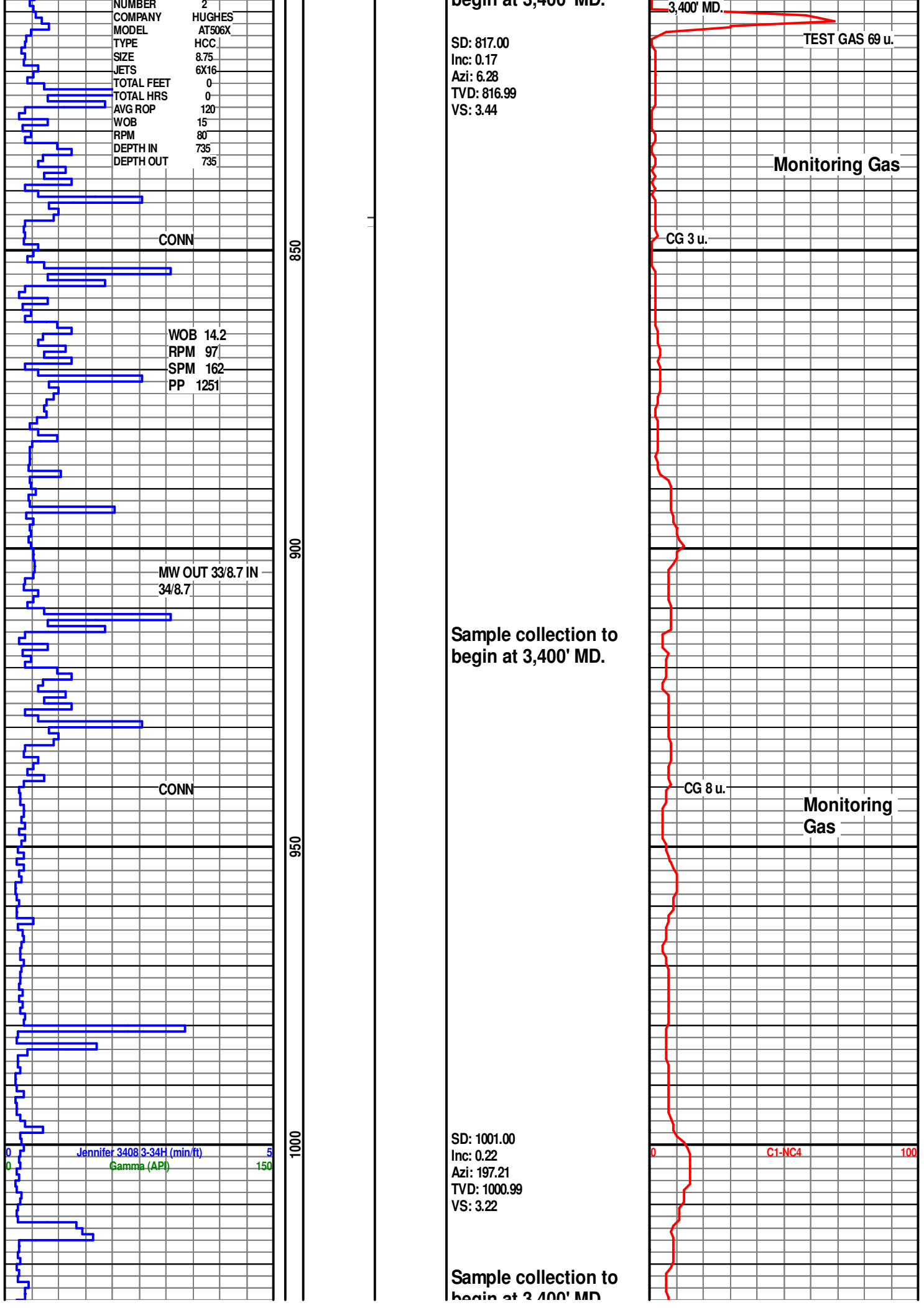
INTERVALS

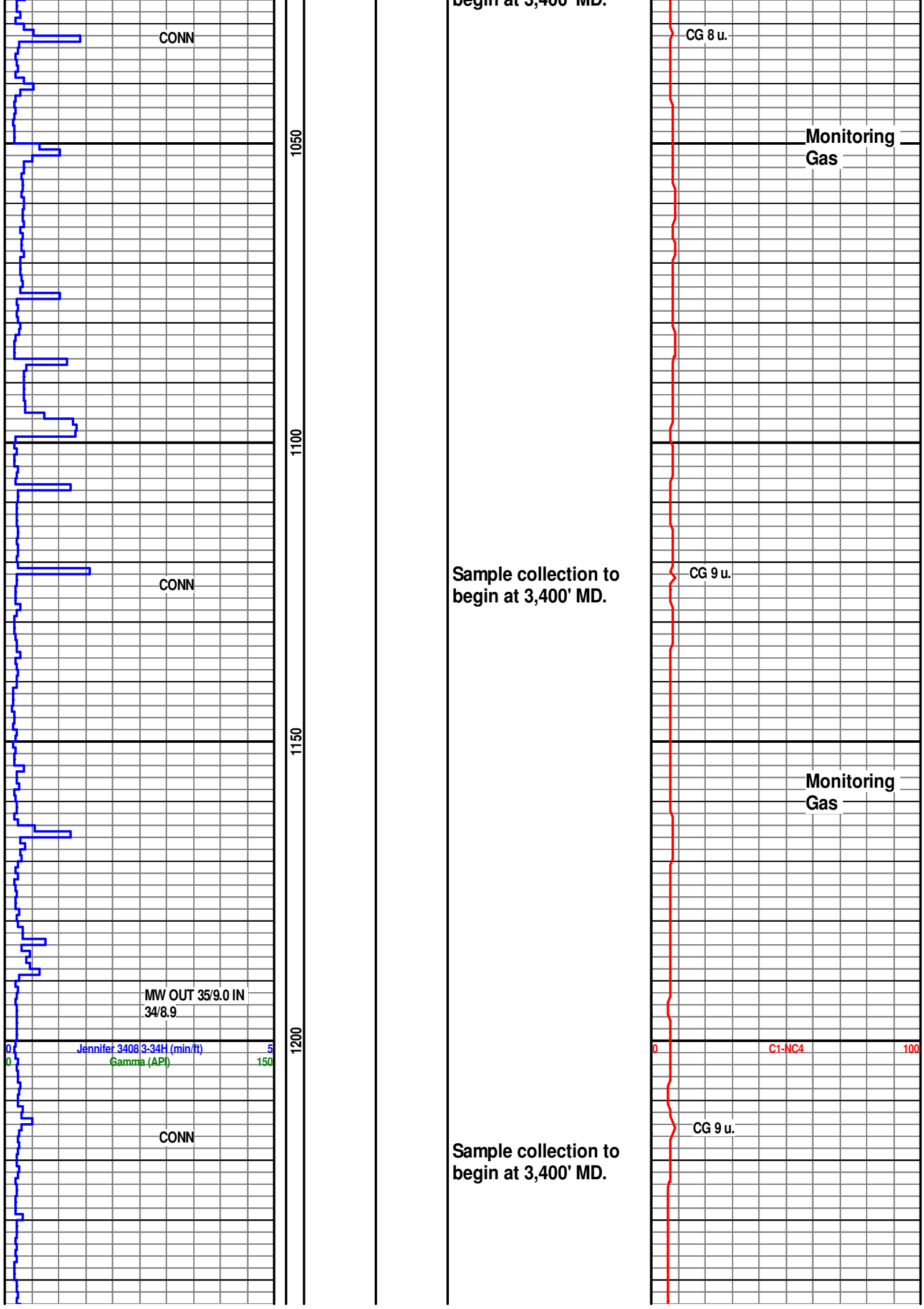
- Core
- Dst
- Slide

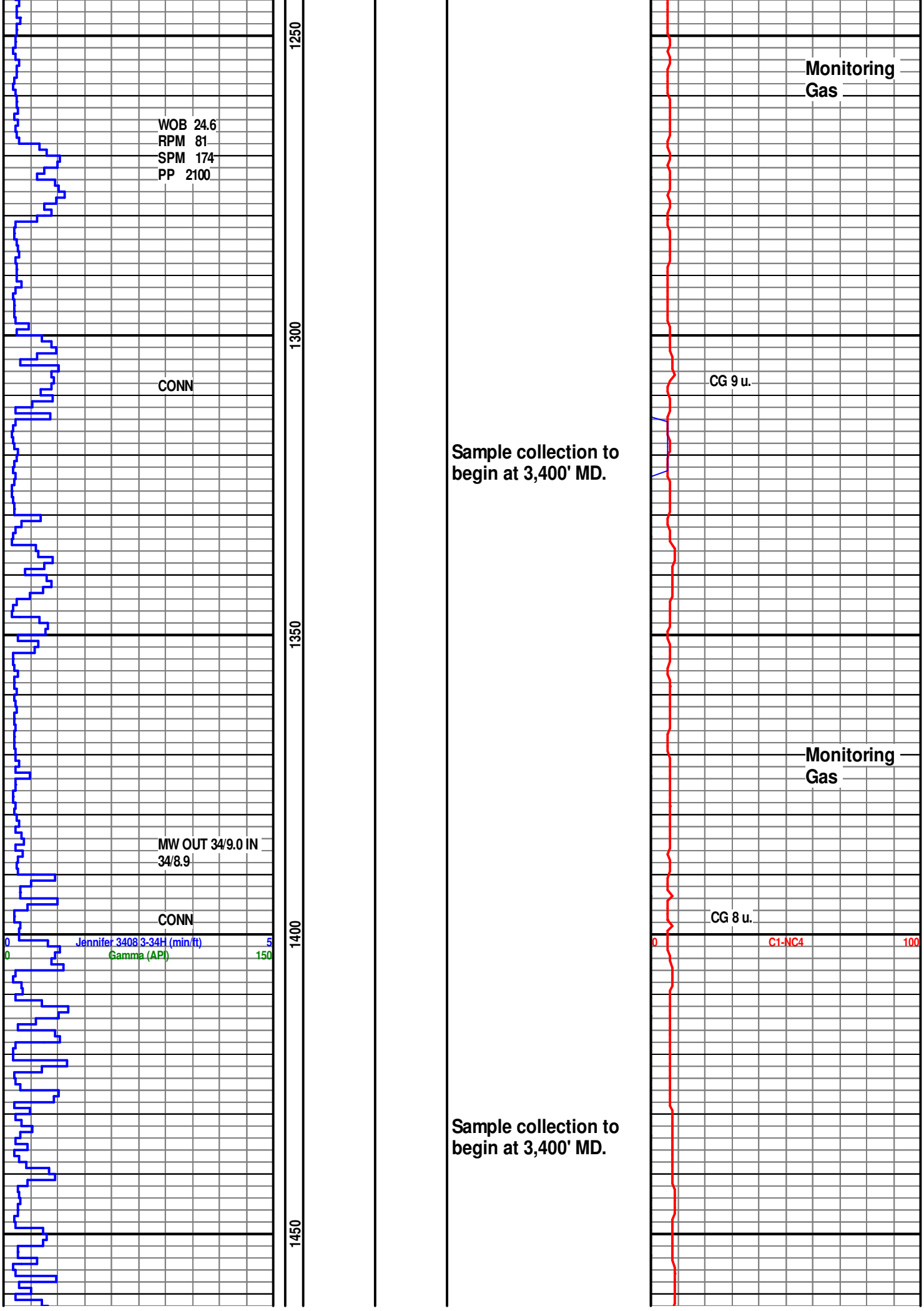
EVENTS

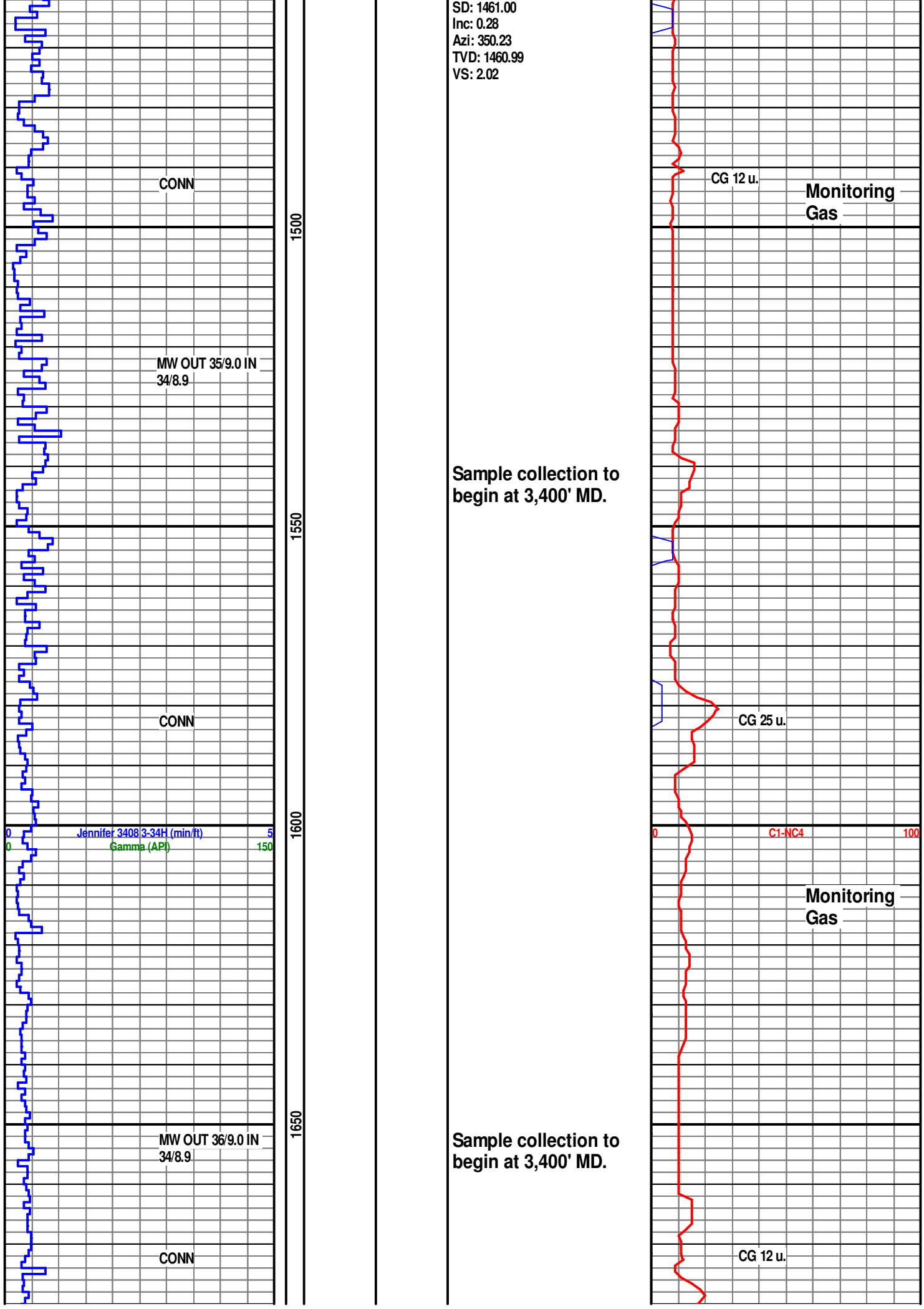
- Rft
- Sidewall

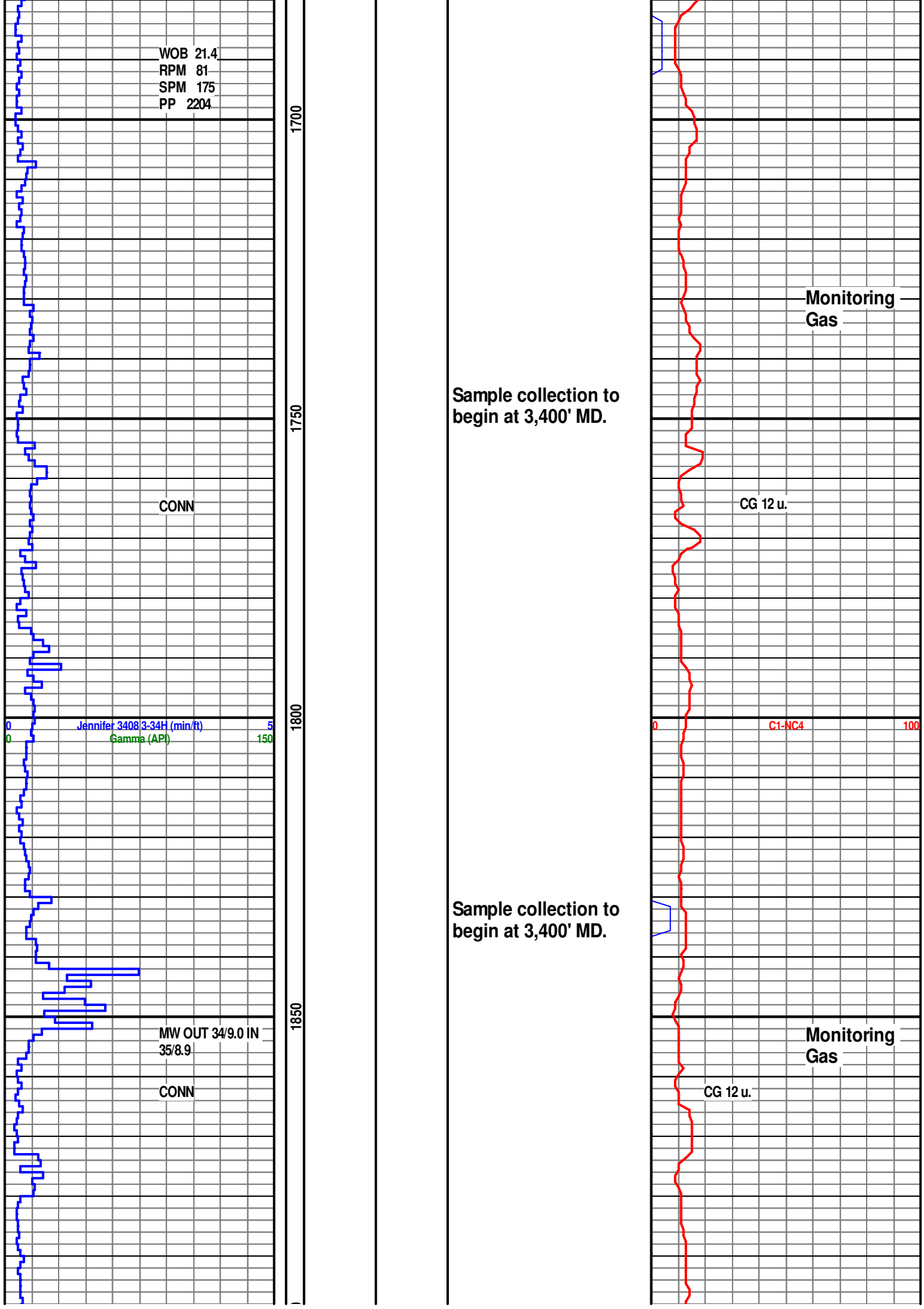


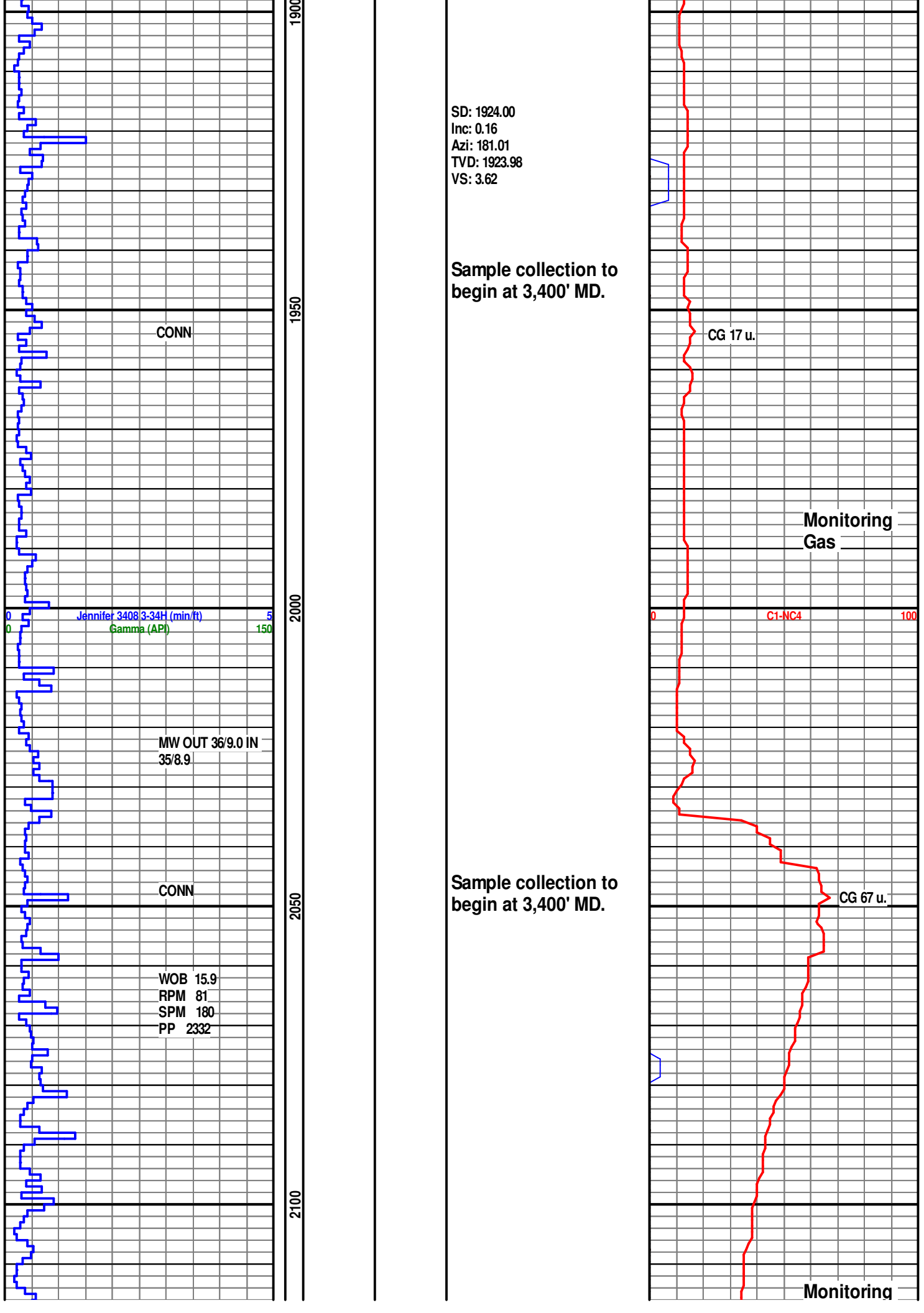

NUMBER 2
COMPANY HUGHES
MODEL AT506X
TYPE HCC
SIZE 8.75
JETS 6X16
TOTAL FEET 0
TOTAL HRS 0
AVG ROP 120
WOB 15
RPM 80
DEPTH IN 735
DEPTH OUT 735
CONN
WOB 14.2
RPM 97
SPM 162
PP 1251
MW OUT 33/8.7 IN 34/8.7
CONN
850
900
950
1000
0 Jennifer 3408 3-34H (min/ft) 5
0 Gamma (API) 150
begin at 3,400' MD.
SD: 817.00
Inc: 0.17
Azi: 6.28
TVD: 816.99
VS: 3.44
3,400' MD.
TEST GAS 69 u.
Monitoring Gas
CG 3 u.
Sample collection to begin at 3,400' MD.
CG 8 u.
Monitoring Gas
SD: 1001.00
Inc: 0.22
Azi: 197.21
TVD: 1000.99
VS: 3.22
0 C1-NC4 100
Sample collection to

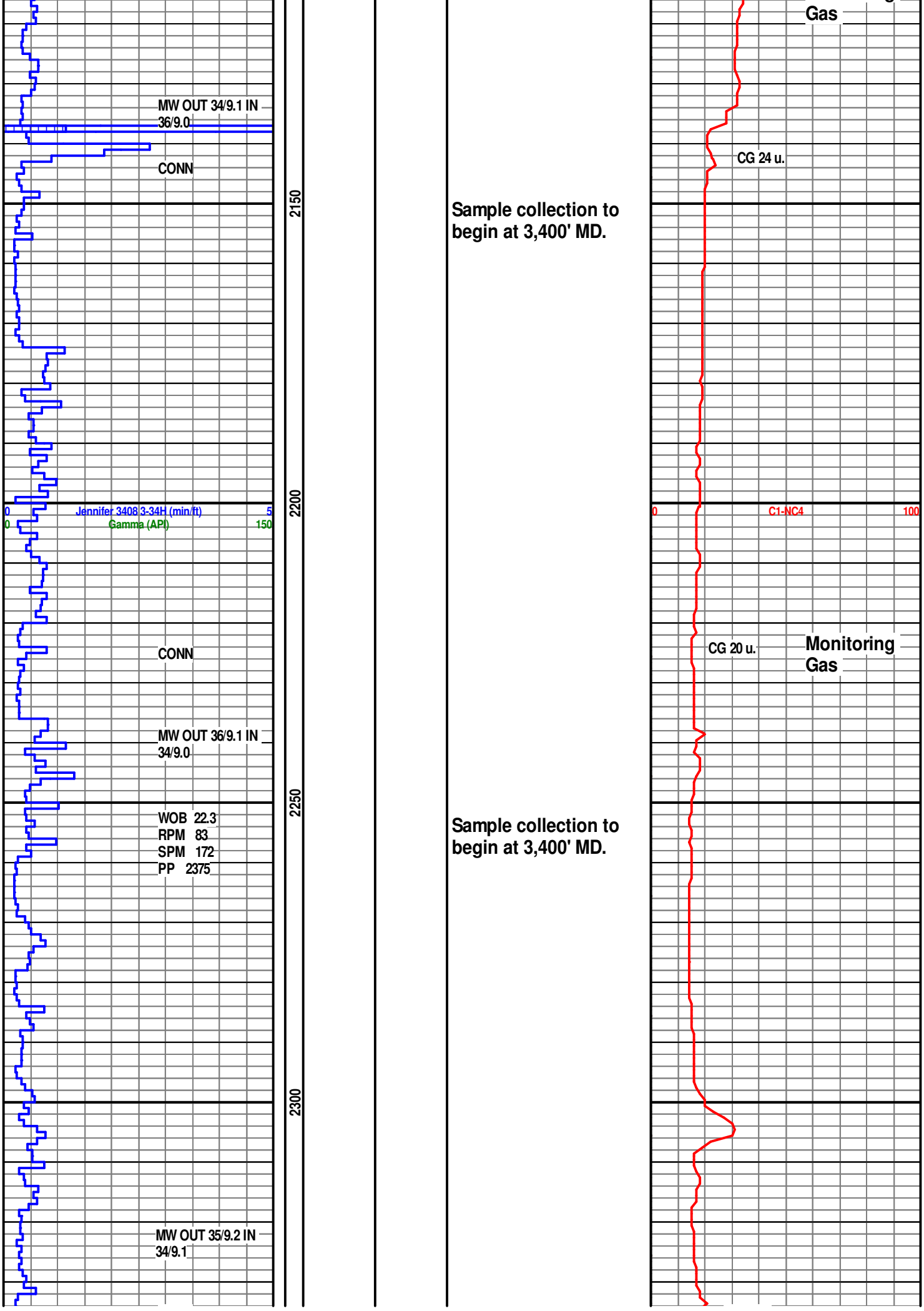

CONN
1050
1100
CONN
1150
MW OUT 35/9.0 IN 34/8.9
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
CONN
1200
begin at 3,400' MD.
CG 8 u.
Monitoring Gas
Sample collection to begin at 3,400' MD.
CG 9 u.
Monitoring Gas
0
C1-NC4
100
CG 9 u.
Sample collection to begin at 3,400' MD.

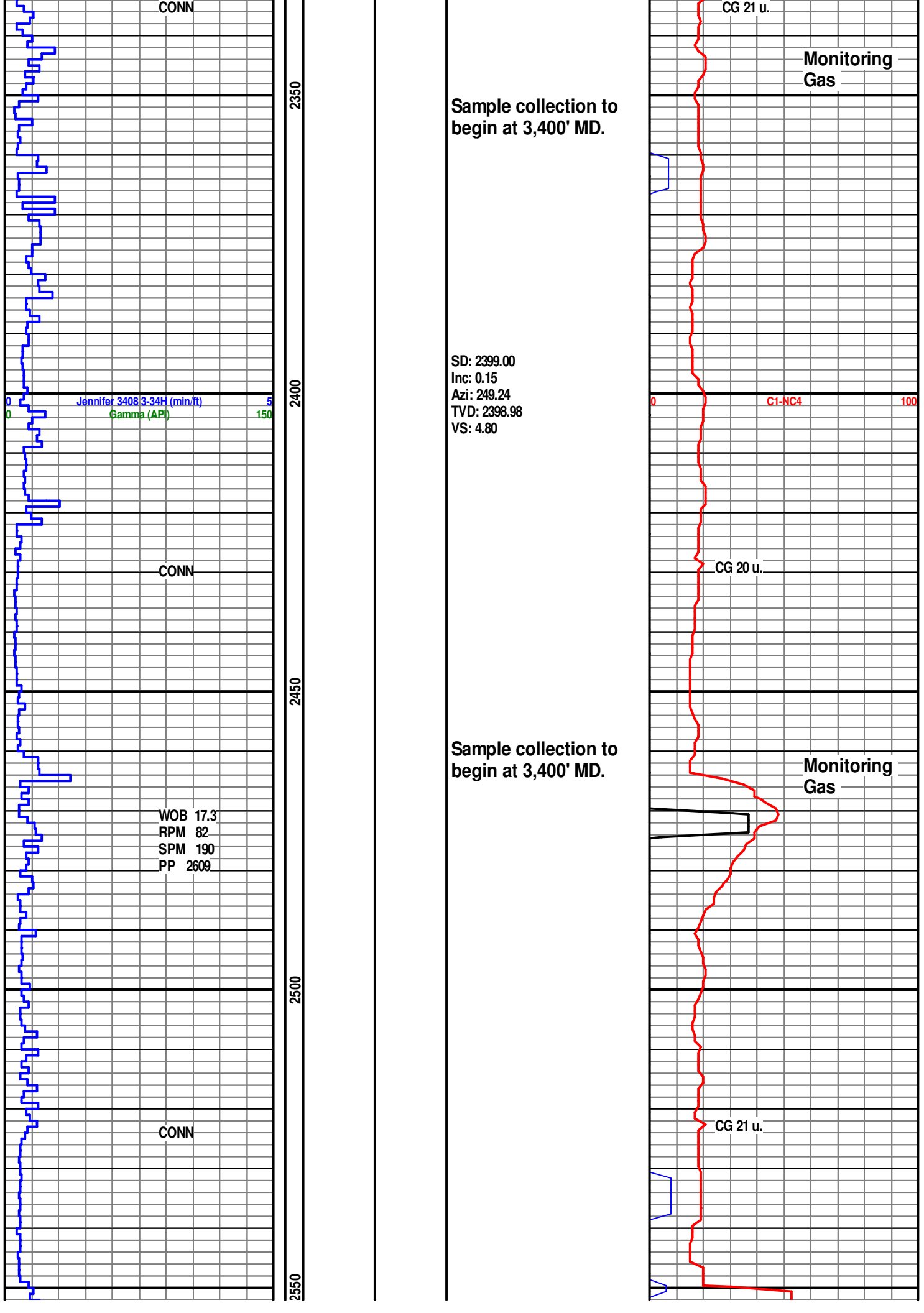

WOB 24.6
RPM 81
SPM 174
PP 2100
CONN
MW OUT 34/9.0 IN 34/8.9
CONN
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
1250
1300
1350
1400
1450
Sample collection to begin at 3,400' MD.
Sample collection to begin at 3,400' MD.
Monitoring Gas
CG 9 u.
Monitoring Gas
CG 8 u.
0
C1-NC4
100

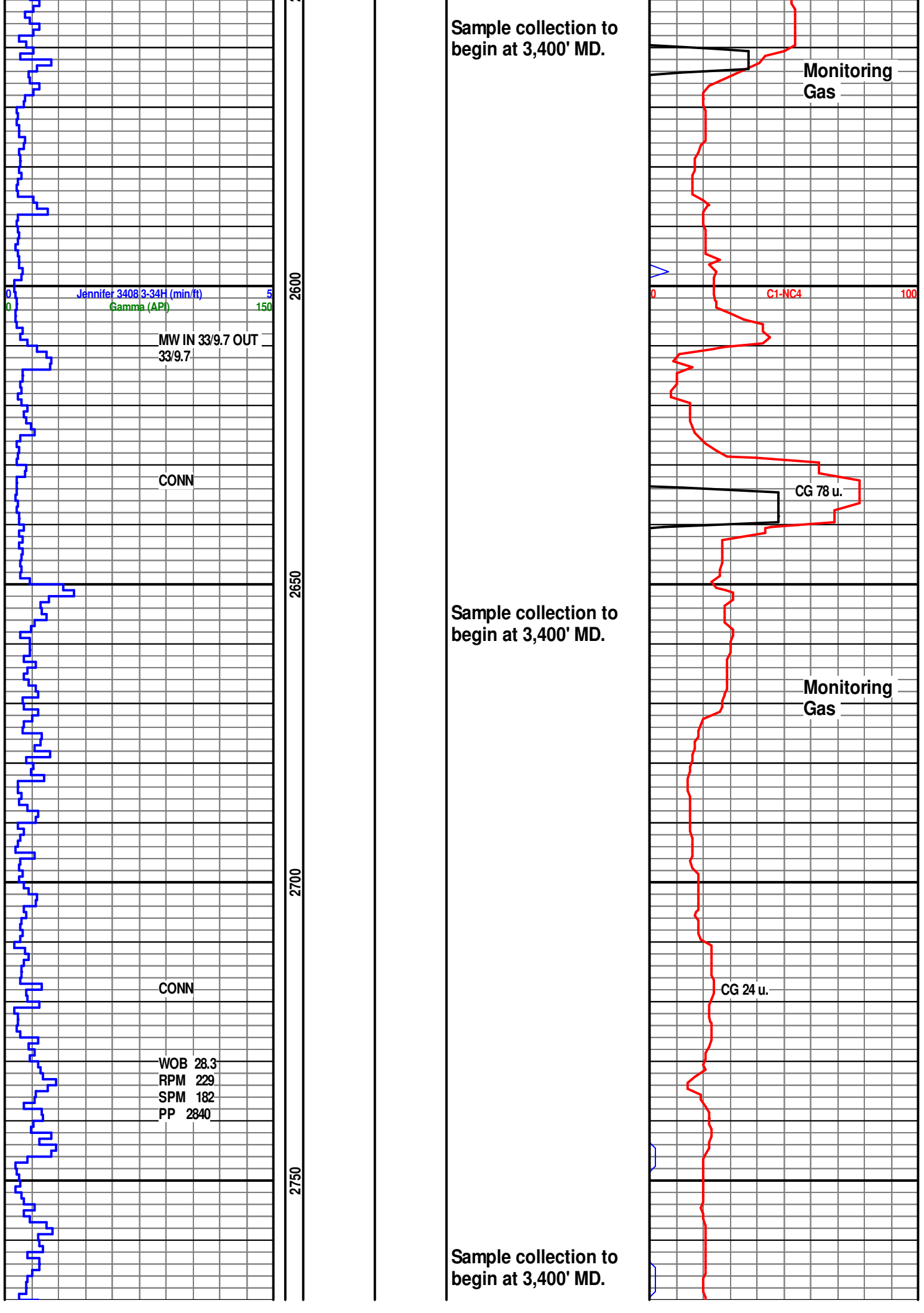

SD: 1461.00
Inc: 0.28
Azi: 350.23
TVD: 1460.99
VS: 2.02
CONN
MW OUT 35/9.0 IN 34/8.9
CONN
0 Jennifer 3408 3-34H (min/ft) 5
0 Gamma (API) 150
MW OUT 36/9.0 IN 34/8.9
CONN
1500
1550
1600
1650
CG 12 u.
Monitoring Gas
Sample collection to begin at 3,400' MD.
CG 25 u.
0 C1-NC4 100
Monitoring Gas
Sample collection to begin at 3,400' MD.
CG 12 u.

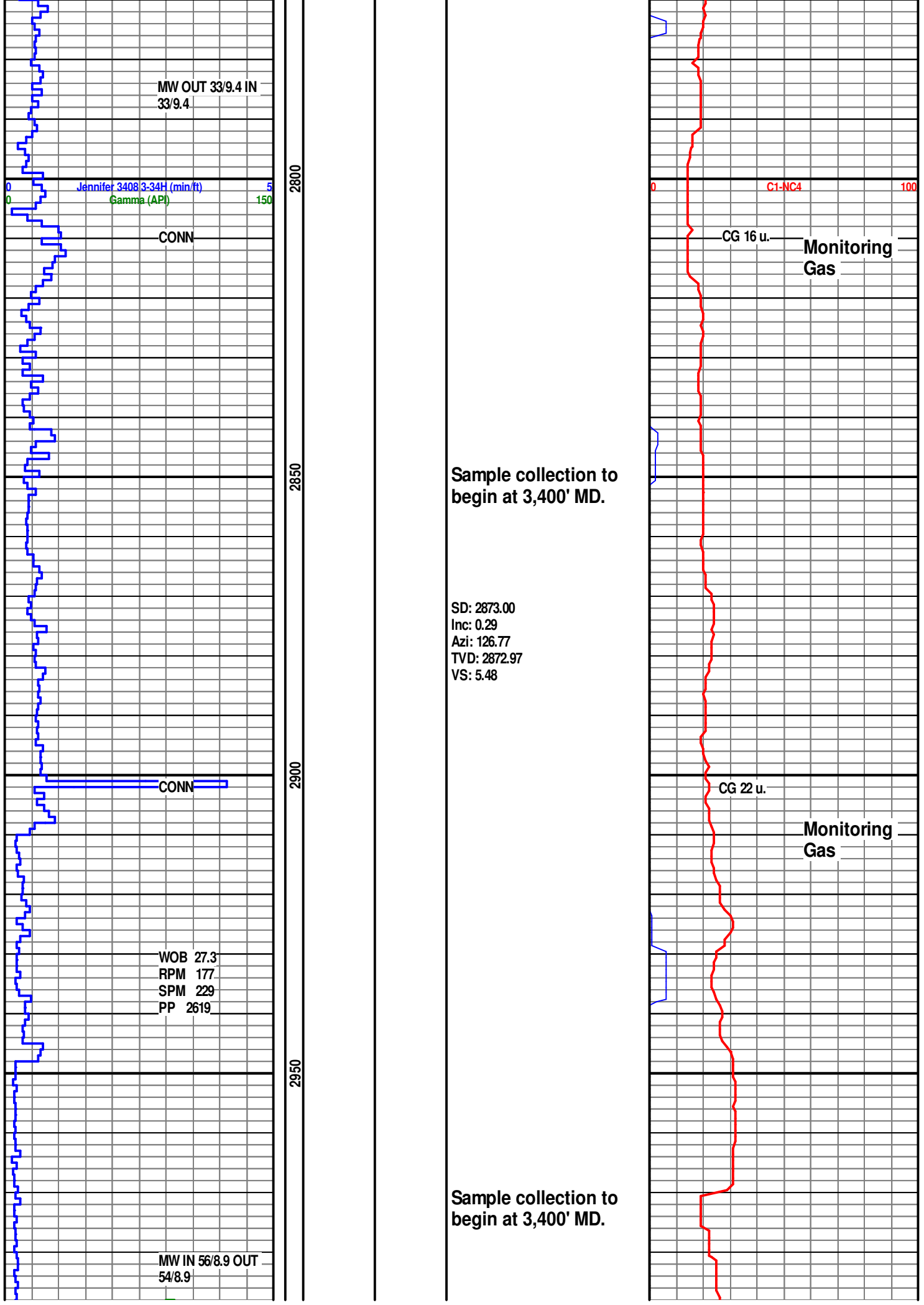

WOB 21.4
RPM 81
SPM 175
PP 2204
1700
1750
1800
1850
CONN
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
MW OUT 34/9.0 IN
35/8.9
CONN
Sample collection to
begin at 3,400' MD.
Sample collection to
begin at 3,400' MD.
Monitoring
Gas
CG 12 u.
0
C1-NC4
100
Monitoring
Gas
CG 12 u.

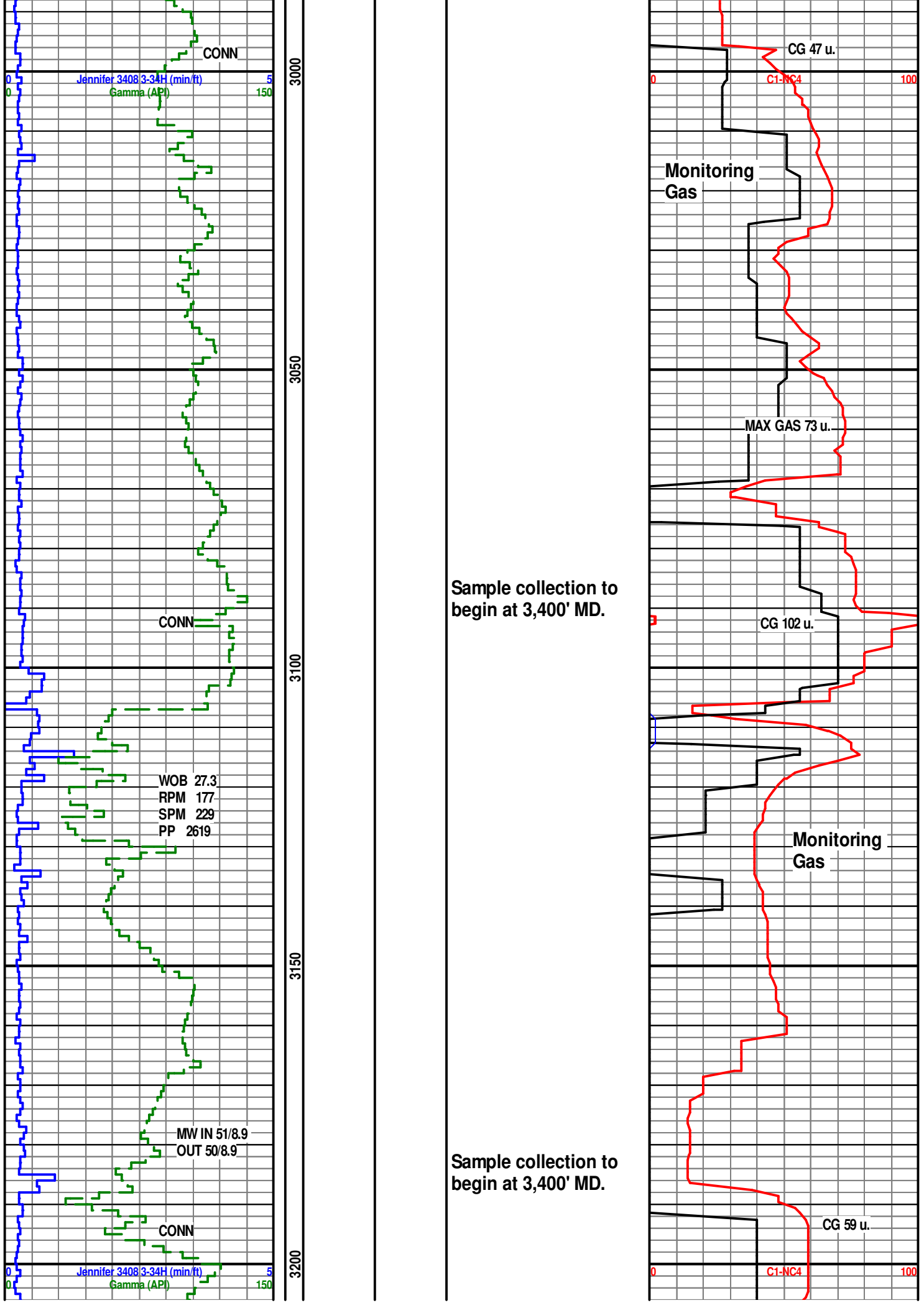

1900
1950
2000
2050
2100
CONN
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
MW OUT 36/9.0 IN
35/8.9
CONN
WOB 15.9
RPM 81
SPM 180
PP 2332
SD: 1924.00
Inc: 0.16
Azi: 181.01
TVD: 1923.98
VS: 3.62
Sample collection to begin at 3,400' MD.
Sample collection to begin at 3,400' MD.
CG 17 u.
Monitoring Gas
0
C1-NC4
100
CG 67 u.
Monitoring

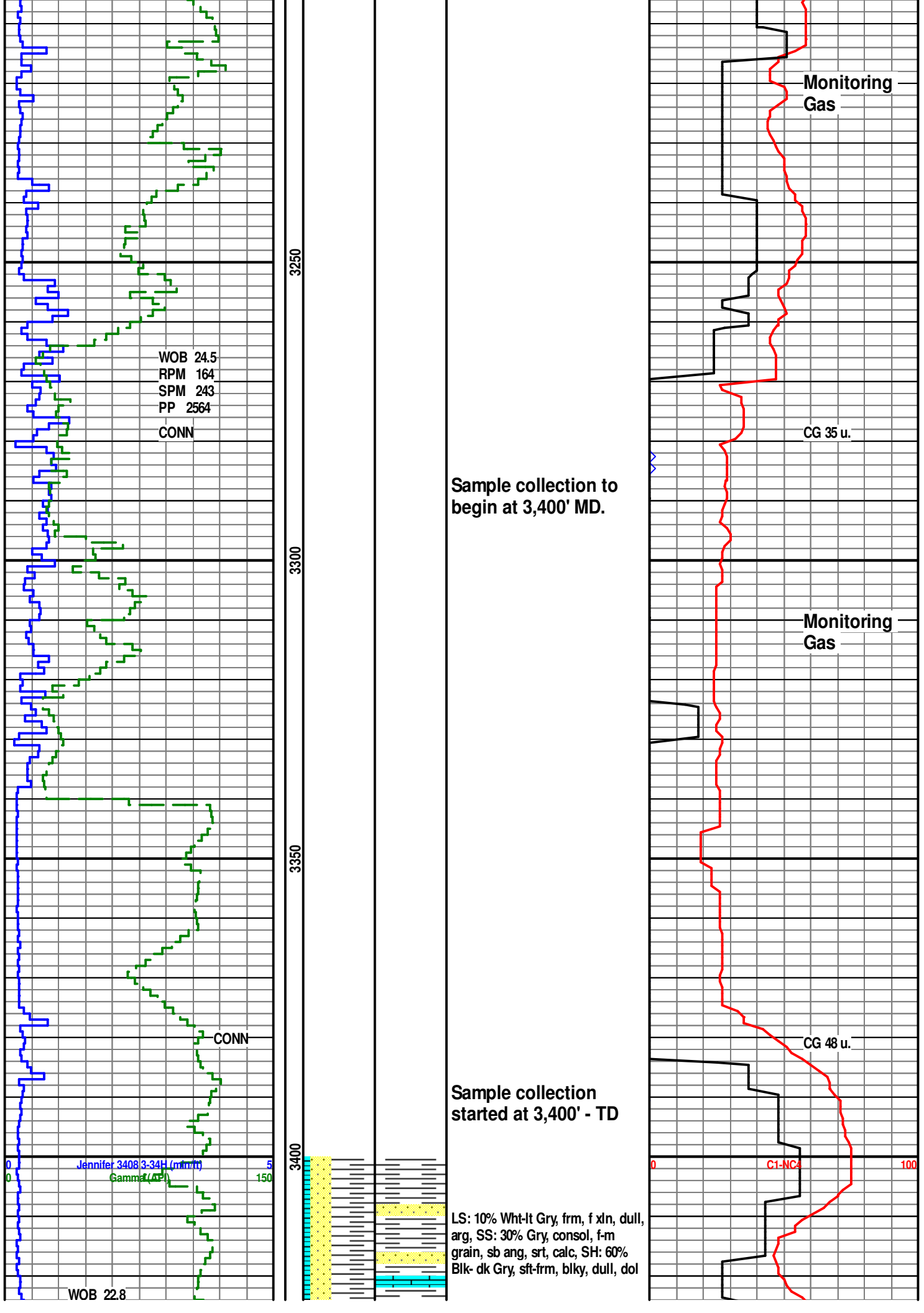

MW OUT 34/9.1 IN 36/9.0
CONN
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
CONN
MW OUT 36/9.1 IN 34/9.0
WOB 22.3
RPM 83
SPM 172
PP 2375
MW OUT 35/9.2 IN 34/9.1
2150
2200
2250
2300
Sample collection to begin at 3,400' MD.
Sample collection to begin at 3,400' MD.
Gas
CG 24 u.
0
C1-NC4
100
CG 20 u.
Monitoring Gas

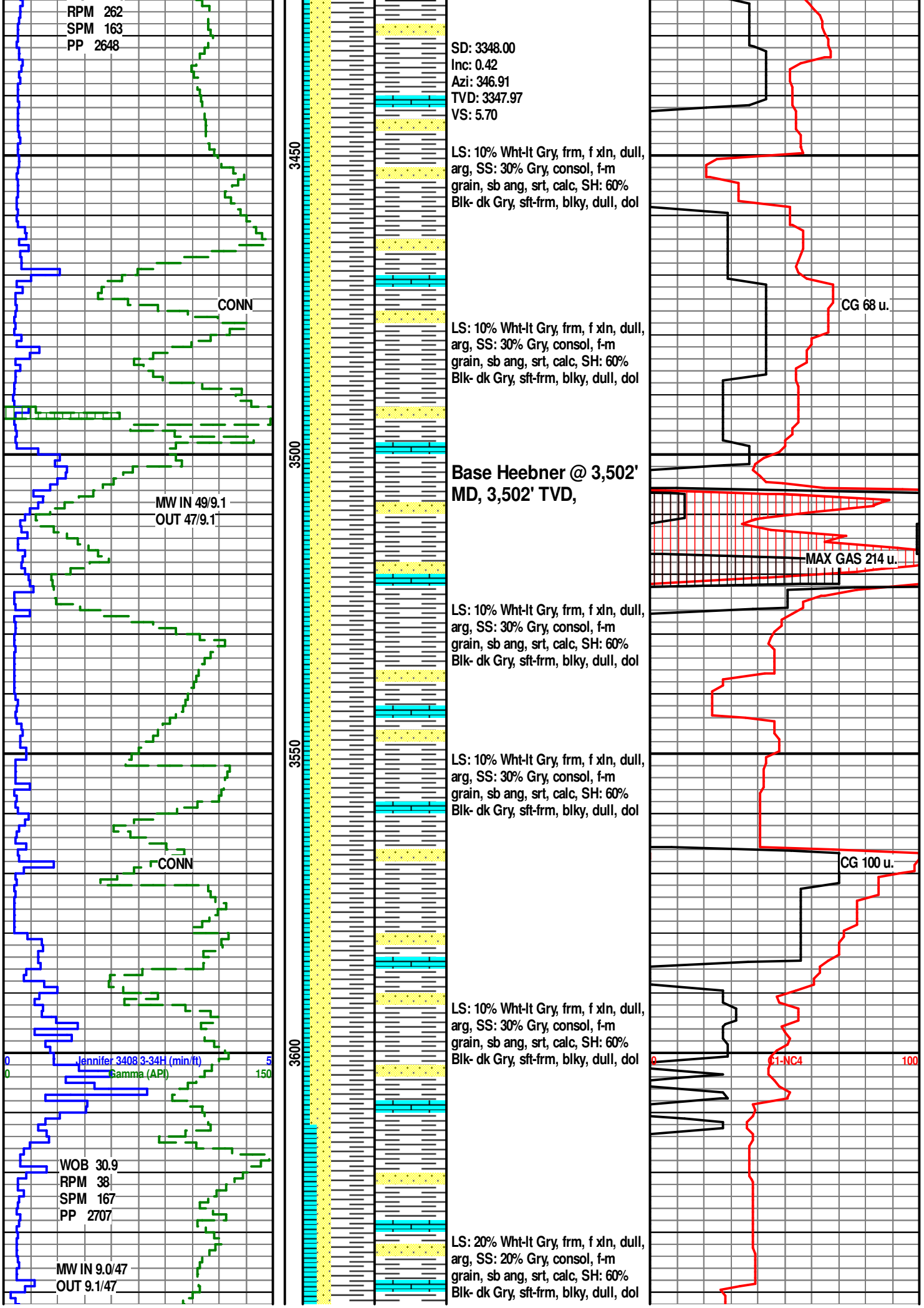

CONN
2350
Jennifer 3408 3-34H (min/ft)
0
5
Gamma (API)
0
150
2400
CONN
2450
WOB 17.3
RPM 82
SPM 190
PP 2609
CONN
2500
2550
Sample collection to begin at 3,400' MD.
SD: 2399.00
Inc: 0.15
Azi: 249.24
TVD: 2398.98
VS: 4.80
CG 21 u.
Monitoring Gas
0
C1-NC4
100
CG 20 u.
Sample collection to begin at 3,400' MD.
Monitoring Gas
CG 21 u.

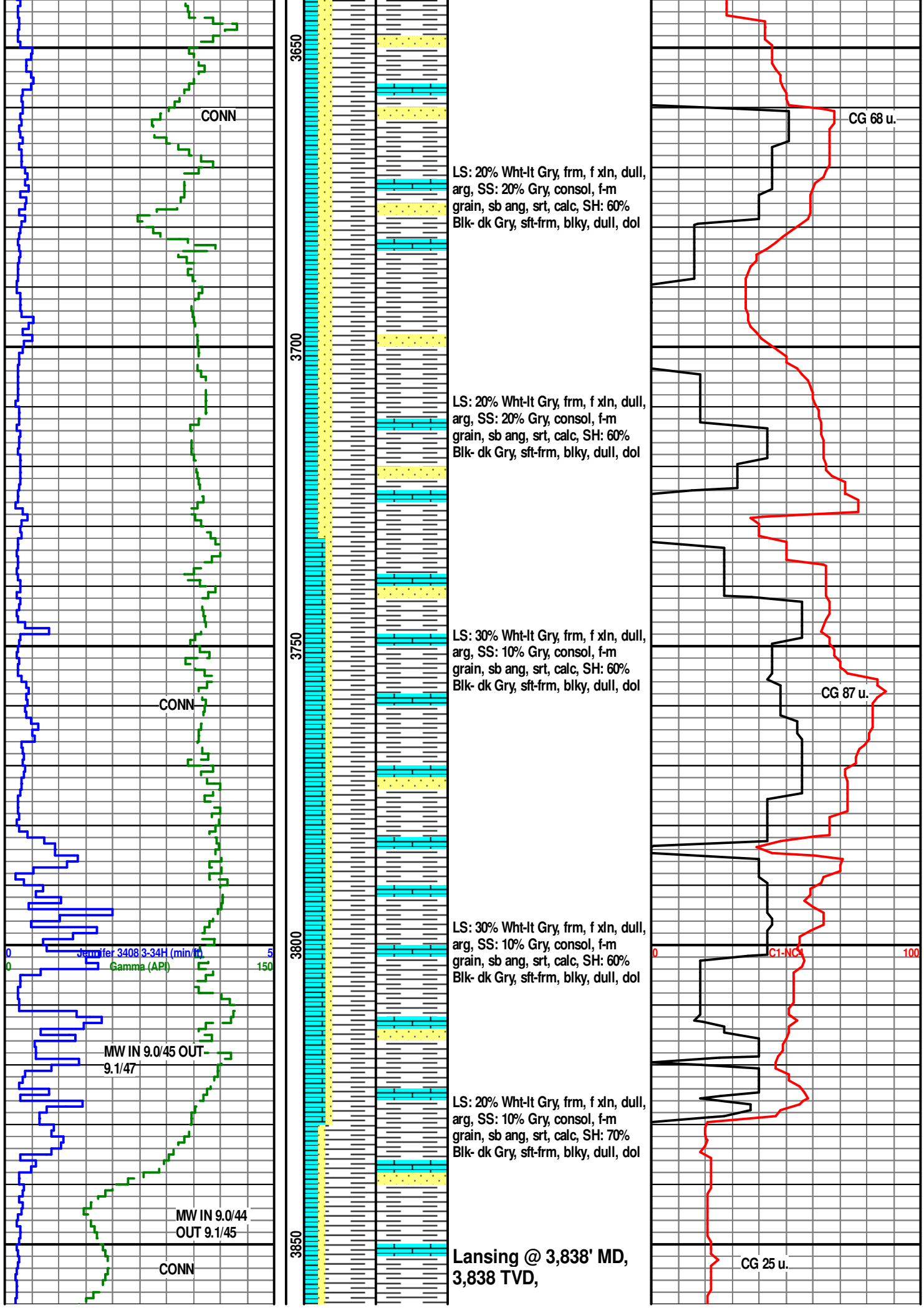

Sample collection to begin at 3,400' MD.
Monitoring Gas
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
0
C1-NC4
100
MW IN 33/9.7 OUT
33/9.7
CONN
CG 78 u.
2600
2650
Sample collection to begin at 3,400' MD.
Monitoring Gas
2700
CONN
CG 24 u.
WOB 28.3
RPM 229
SPM 182
PP 2840
2750
Sample collection to begin at 3,400' MD.

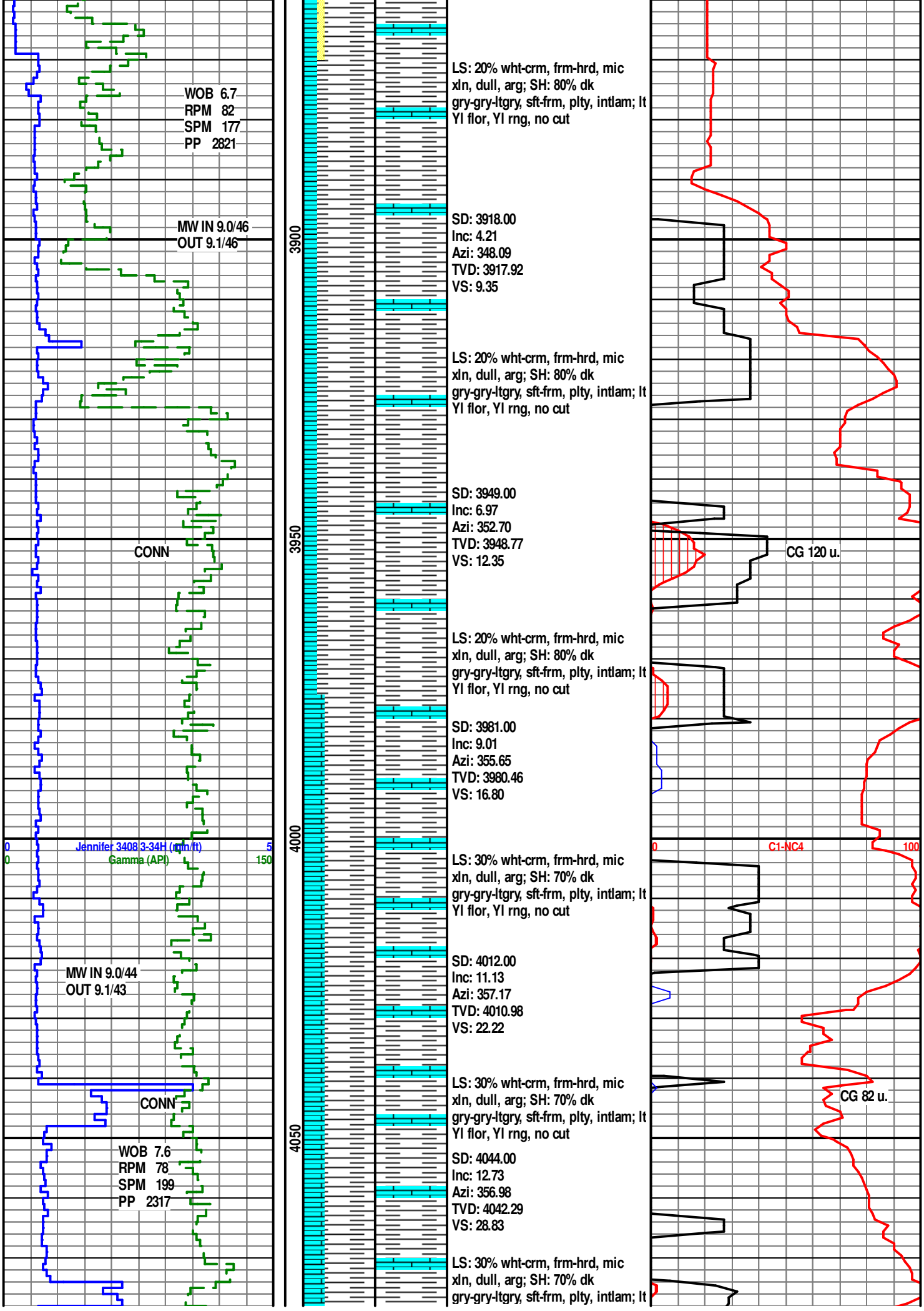

MW OUT 33/9.4 IN
33/9.4
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
CONN
CONN
WOB 27.3
RPM 177
SPM 229
PP 2619
MW IN 56/8.9 OUT
54/8.9
2800
2850
2900
2950
Sample collection to begin at 3,400' MD.
SD: 2873.00
Inc: 0.29
Azi: 126.77
TVD: 2872.97
VS: 5.48
Sample collection to begin at 3,400' MD.
0
C1-NC4
100
CG 16 u.
Monitoring Gas
CG 22 u.
Monitoring Gas

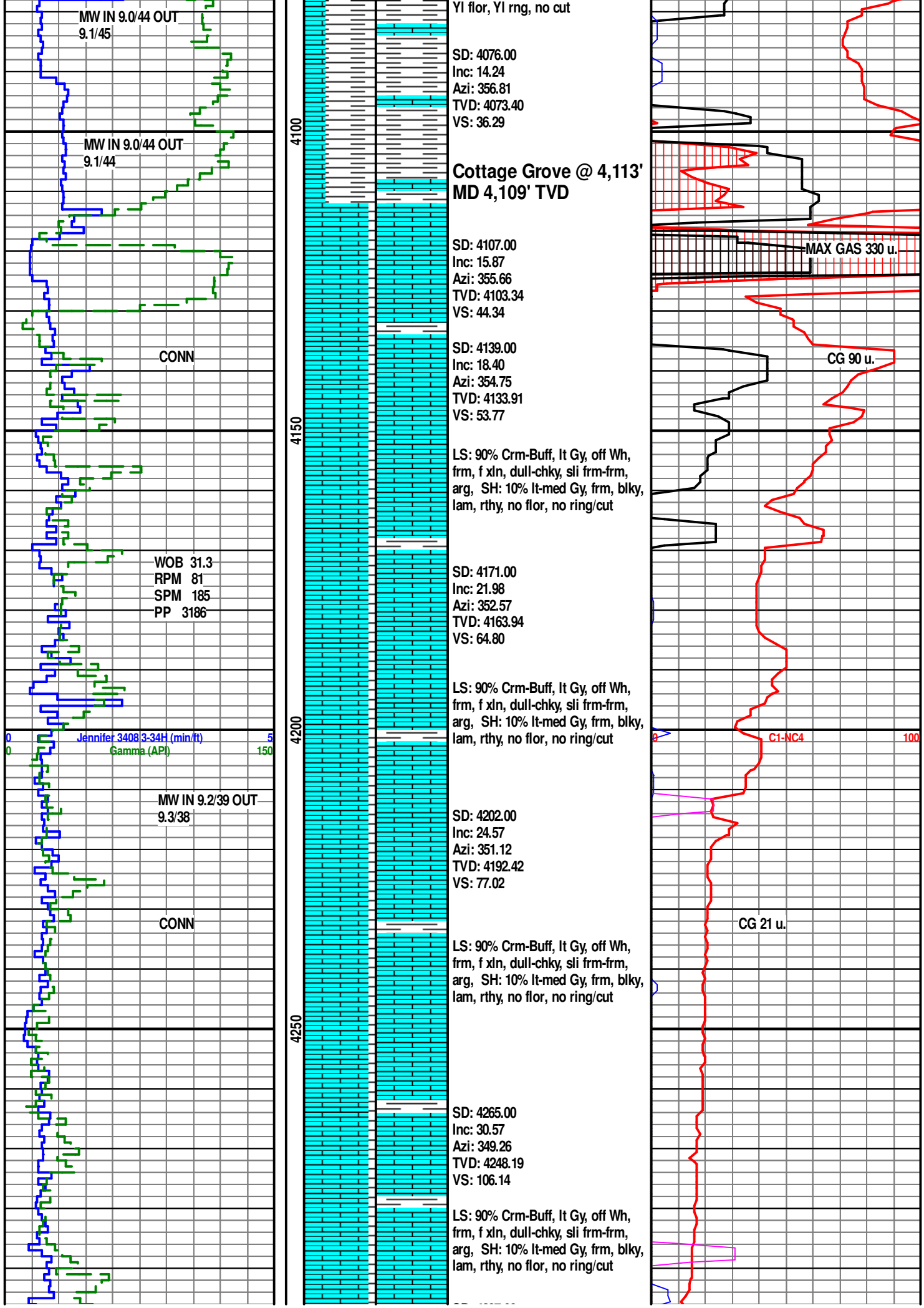

CONN
Jennifer 3408 3-34H (min/ft)
0
5
Gamma (API)
0
150
3000
3050
CONN
3100
WOB 27.3
RPM 177
SPM 229
PP 2619
3150
MW IN 51/8.9
OUT 50/8.9
CONN
3200
Jennifer 3408 3-34H (min/ft)
0
5
Gamma (API)
0
150
Sample collection to begin at 3,400' MD.
Sample collection to begin at 3,400' MD.
CG 47 u.
C1-NC4
0
100
Monitoring Gas
MAX GAS 73 u.
CG 102 u.
Monitoring Gas
CG 59 u.
C1-NC4
0
100

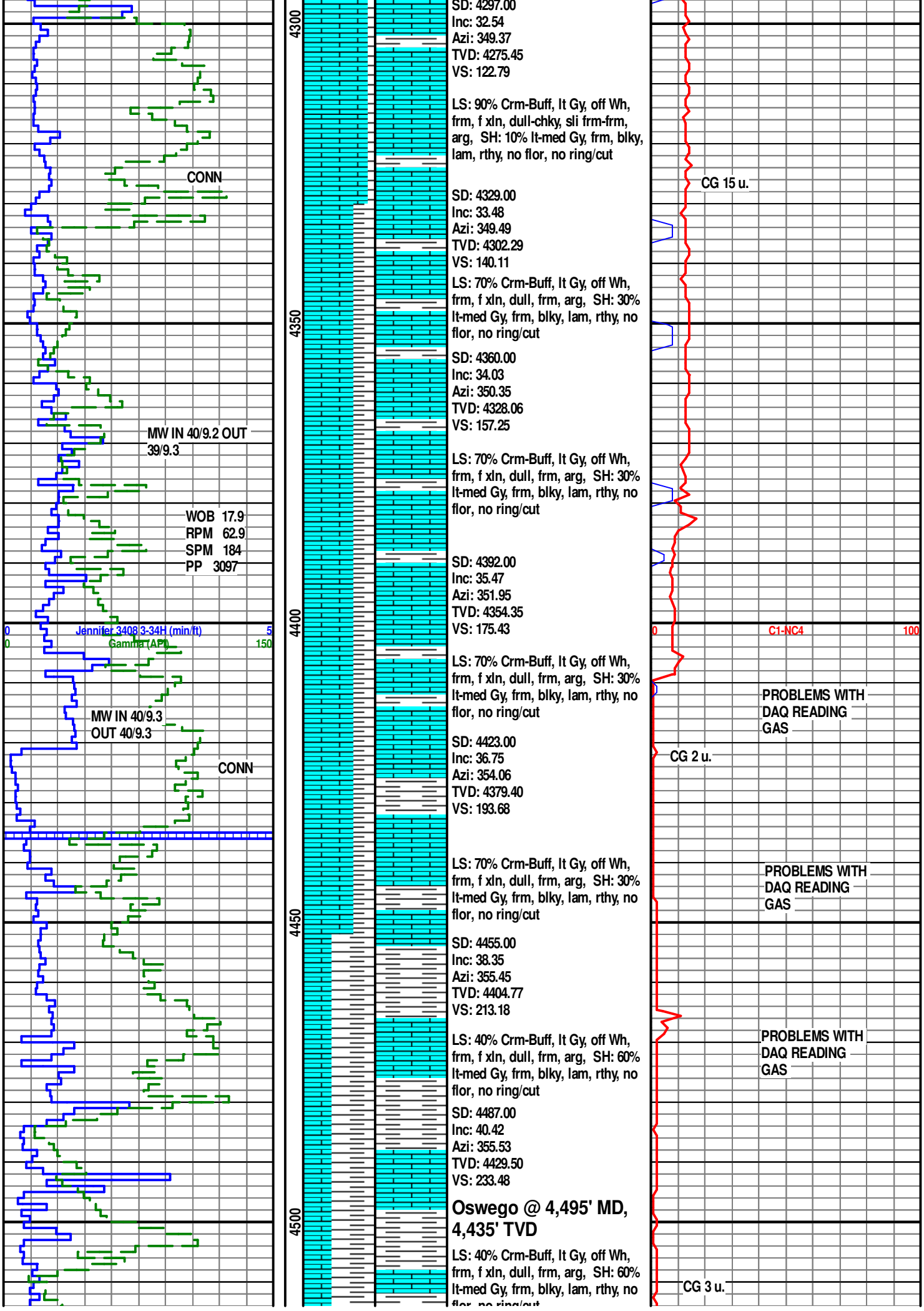

WOB 24.5
RPM 164
SPM 243
PP 2564
CONN
CONN
WOB 22.8
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
3250
3300
3350
3400
Sample collection to begin at 3,400' MD.
Sample collection started at 3,400' - TD
LS: 10% Wht-lt Gry, frm, f xln, dull, arg, SS: 30% Gry, consol, f-m grain, sb ang, srt, calc, SH: 60% Blk- dk Gry, sft-frm, blky, dull, dol
Monitoring Gas
CG 35 u.
Monitoring Gas
CG 48 u.
0
C1-NC4
100

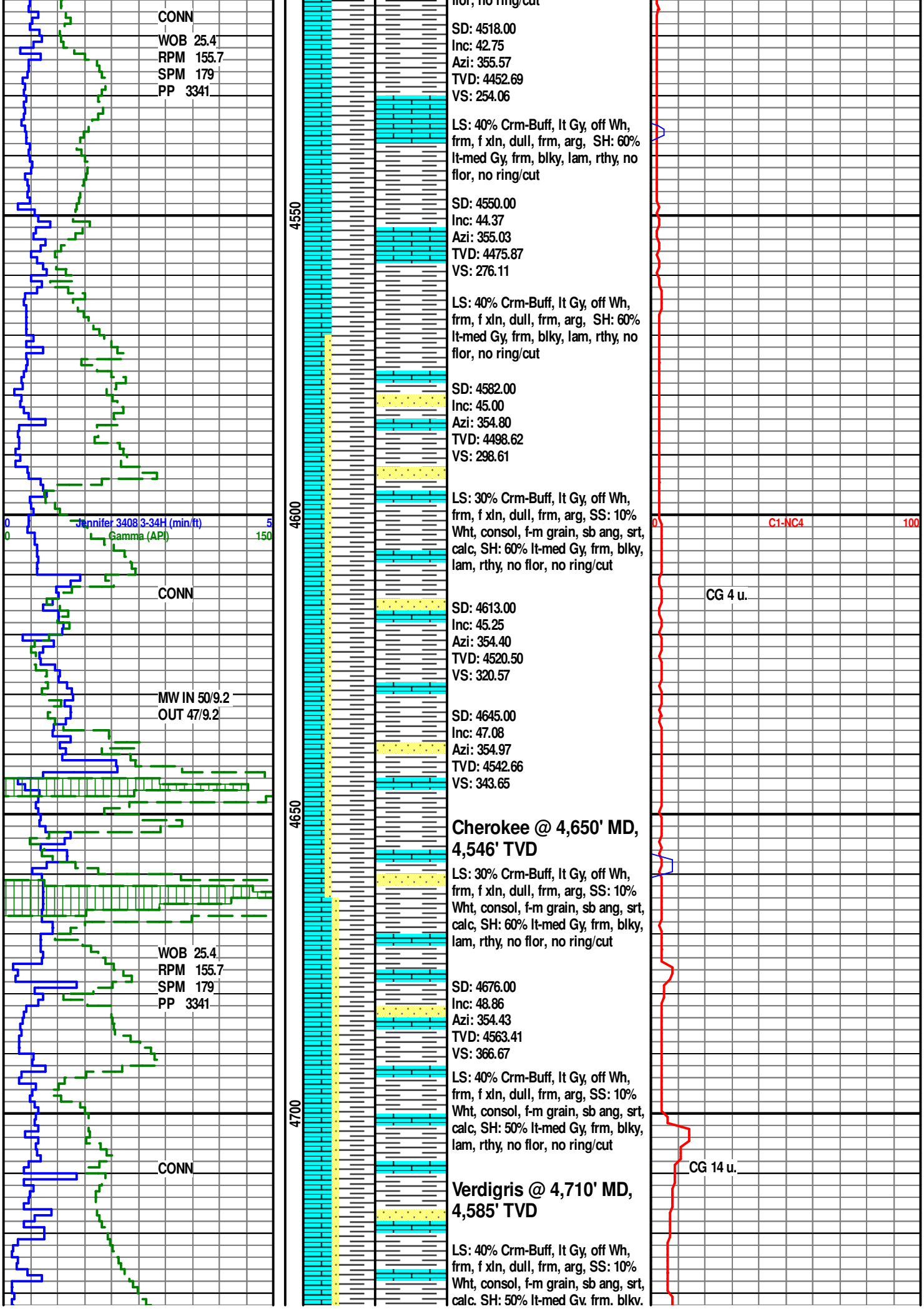

RPM 262
SPM 163
PP 2648
CONN
MW IN 49/9.1
OUT 47/9.1
CONN
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
WOB 30.9
RPM 38
SPM 167
PP 2707
MW IN 9.0/47
OUT 9.1/47
3450
3500
3550
3600
SD: 3348.00
Inc: 0.42
Azi: 346.91
TVD: 3347.97
VS: 5.70
LS: 10% Wht-lt Gry, frm, f xln, dull, arg, SS: 30% Gry, consol, f-m grain, sb ang, srt, calc, SH: 60% Blk- dk Gry, sft-frm, blky, dull, dol
LS: 10% Wht-lt Gry, frm, f xln, dull, arg, SS: 30% Gry, consol, f-m grain, sb ang, srt, calc, SH: 60% Blk- dk Gry, sft-frm, blky, dull, dol
Base Heebner @ 3,502' MD, 3,502' TVD,
LS: 10% Wht-lt Gry, frm, f xln, dull, arg, SS: 30% Gry, consol, f-m grain, sb ang, srt, calc, SH: 60% Blk- dk Gry, sft-frm, blky, dull, dol
LS: 10% Wht-lt Gry, frm, f xln, dull, arg, SS: 30% Gry, consol, f-m grain, sb ang, srt, calc, SH: 60% Blk- dk Gry, sft-frm, blky, dull, dol
LS: 10% Wht-lt Gry, frm, f xln, dull, arg, SS: 30% Gry, consol, f-m grain, sb ang, srt, calc, SH: 60% Blk- dk Gry, sft-frm, blky, dull, dol
LS: 20% Wht-lt Gry, frm, f xln, dull, arg, SS: 20% Gry, consol, f-m grain, sb ang, srt, calc, SH: 60% Blk- dk Gry, sft-frm, blky, dull, dol
CG 68 u.
MAX GAS 214 u.
CG 100 u.
0
C1-NC4
100

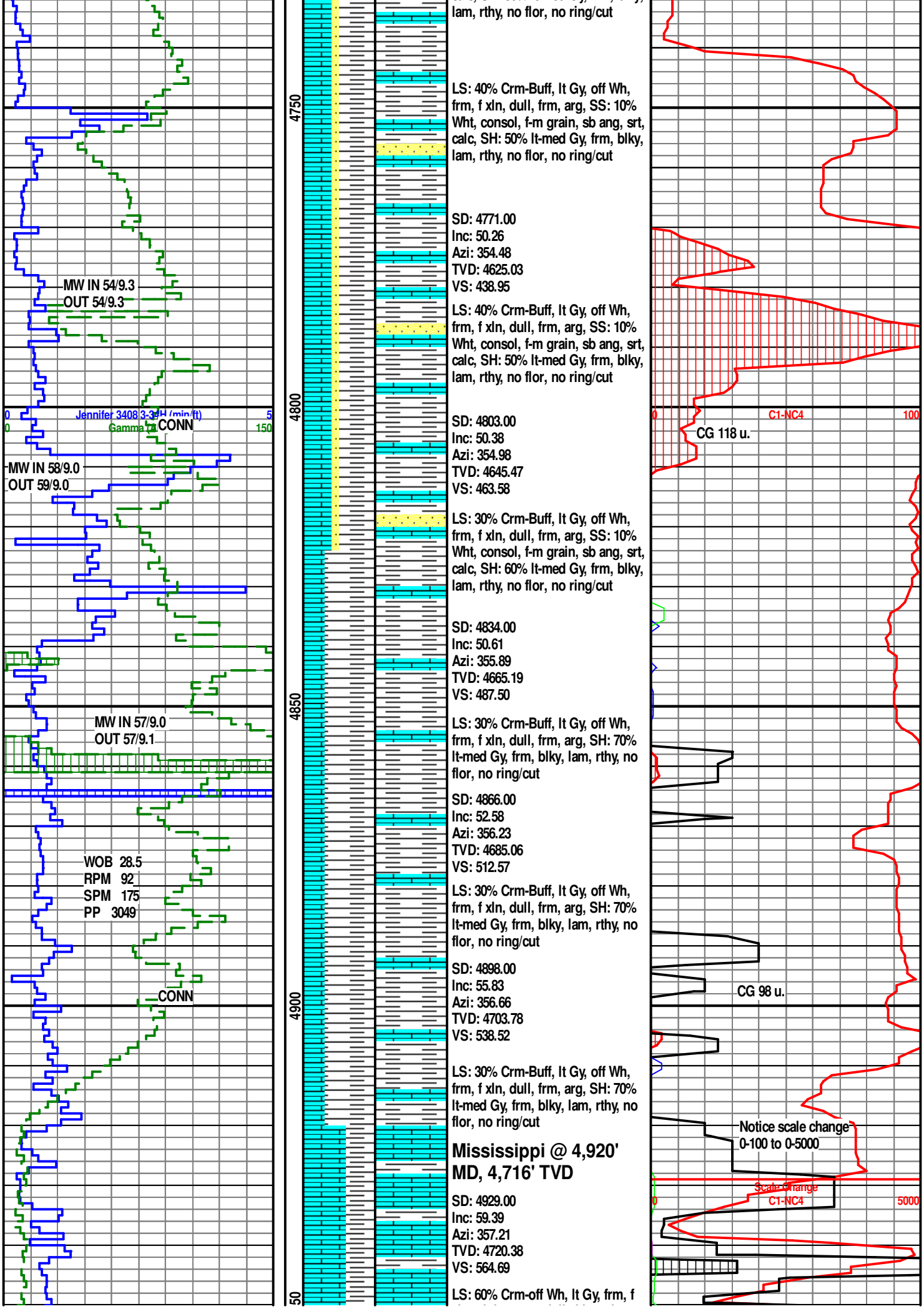

CONN
CONN
CONN
MW IN 9.0/45 OUT 9.1/47
MW IN 9.0/44 OUT 9.1/45
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
3650
3700
3750
3800
3850
LS: 20% Wht-lt Gry, frm, f xln, dull, arg, SS: 20% Gry, consol, f-m grain, sb ang, srt, calc, SH: 60% Blk- dk Gry, sft-frm, blky, dull, dol
LS: 20% Wht-lt Gry, frm, f xln, dull, arg, SS: 20% Gry, consol, f-m grain, sb ang, srt, calc, SH: 60% Blk- dk Gry, sft-frm, blky, dull, dol
LS: 30% Wht-lt Gry, frm, f xln, dull, arg, SS: 10% Gry, consol, f-m grain, sb ang, srt, calc, SH: 60% Blk- dk Gry, sft-frm, blky, dull, dol
LS: 30% Wht-lt Gry, frm, f xln, dull, arg, SS: 10% Gry, consol, f-m grain, sb ang, srt, calc, SH: 60% Blk- dk Gry, sft-frm, blky, dull, dol
LS: 20% Wht-lt Gry, frm, f xln, dull, arg, SS: 10% Gry, consol, f-m grain, sb ang, srt, calc, SH: 70% Blk- dk Gry, sft-frm, blky, dull, dol
Lansing @ 3,838' MD, 3,838 TVD,
CG 68 u.
CG 87 u.
CG 25 u.
0
C1-NC4
100

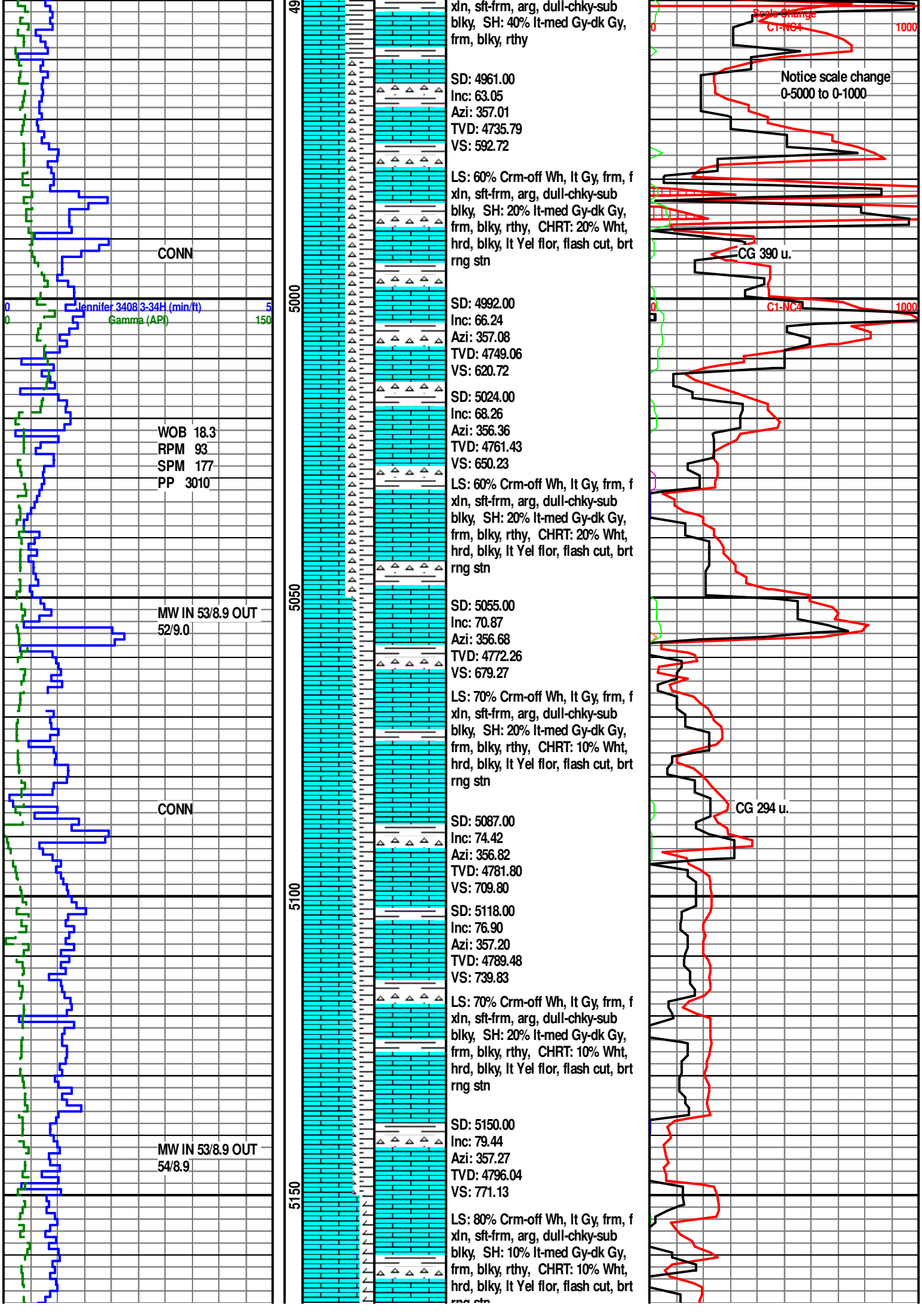

WOB 6.7
RPM 82
SPM 177
PP 2821
MW IN 9.0/46
OUT 9.1/46
CONN
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
MW IN 9.0/44
OUT 9.1/43
CONN
WOB 7.6
RPM 78
SPM 199
PP 2317
3900
3950
4000
4050
LS: 20% wht-crm, frm-hrd, mic xln, dull, arg; SH: 80% dk gry-gry-ltgry, sft-frm, plty, intlam; lt Yl flor, Yl rng, no cut
SD: 3918.00
Inc: 4.21
Azi: 348.09
TVD: 3917.92
VS: 9.35
LS: 20% wht-crm, frm-hrd, mic xln, dull, arg; SH: 80% dk gry-gry-ltgry, sft-frm, plty, intlam; lt Yl flor, Yl rng, no cut
SD: 3949.00
Inc: 6.97
Azi: 352.70
TVD: 3948.77
VS: 12.35
CG 120 u.
LS: 20% wht-crm, frm-hrd, mic xln, dull, arg; SH: 80% dk gry-gry-ltgry, sft-frm, plty, intlam; lt Yl flor, Yl rng, no cut
SD: 3981.00
Inc: 9.01
Azi: 355.65
TVD: 3980.46
VS: 16.80
0
C1-NC4
100
LS: 30% wht-crm, frm-hrd, mic xln, dull, arg; SH: 70% dk gry-gry-ltgry, sft-frm, plty, intlam; lt Yl flor, Yl rng, no cut
SD: 4012.00
Inc: 11.13
Azi: 357.17
TVD: 4010.98
VS: 22.22
LS: 30% wht-crm, frm-hrd, mic xln, dull, arg; SH: 70% dk gry-gry-ltgry, sft-frm, plty, intlam; lt Yl flor, Yl rng, no cut
CG 82 u.
SD: 4044.00
Inc: 12.73
Azi: 356.98
TVD: 4042.29
VS: 28.83
LS: 30% wht-crm, frm-hrd, mic xln, dull, arg; SH: 70% dk gry-gry-ltgry, sft-frm, plty, intlam; lt

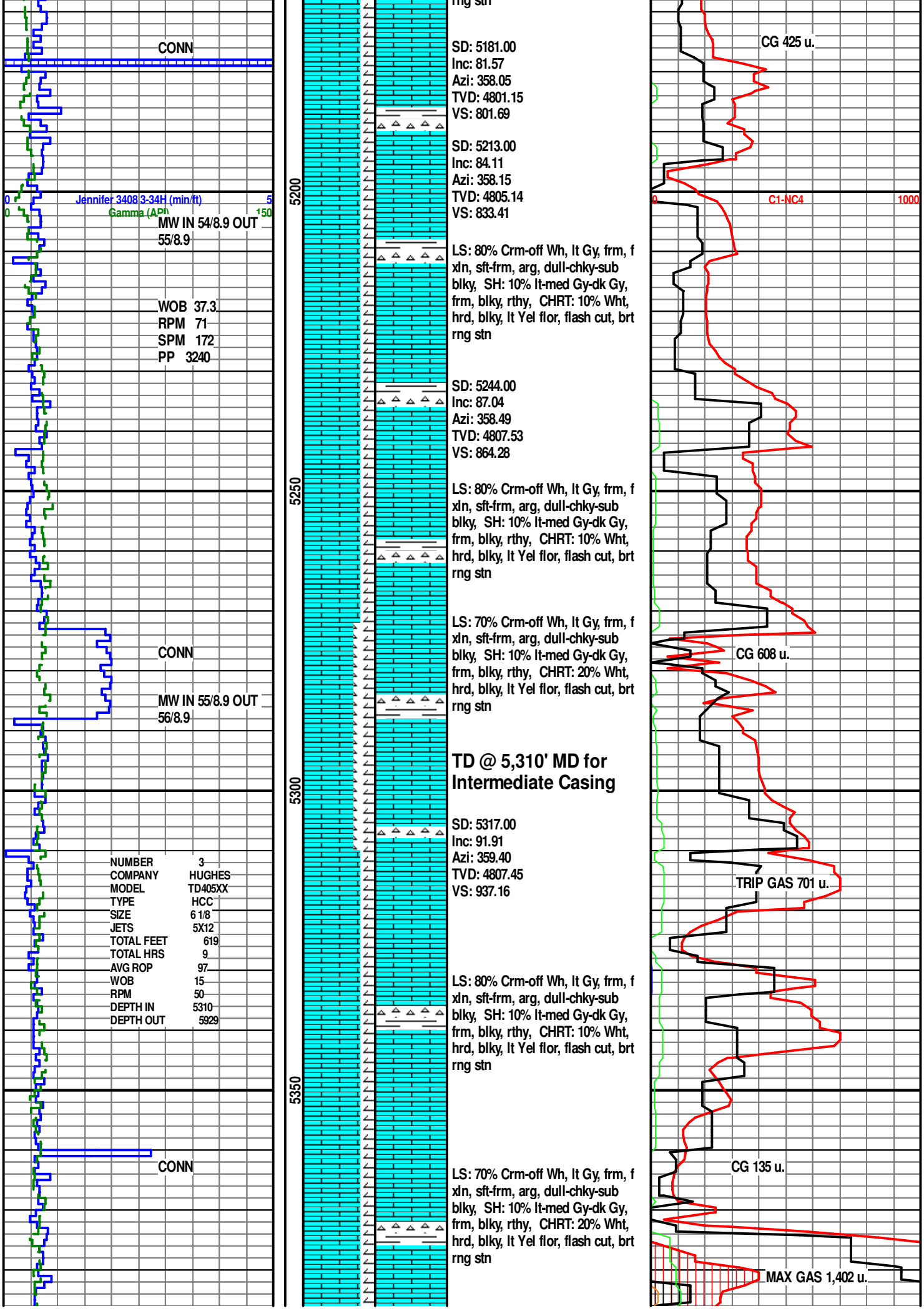

MW IN 9.0/44 OUT
9.1/45
MW IN 9.0/44 OUT
9.1/44
CONN
WOB 31.3
RPM 81
SPM 185
PP 3186
0 Jennifer 3408 3-34H (min/ft) 5
0 Gamma (API) 150
MW IN 9.2/39 OUT
9.3/38
CONN
4100
4150
4200
4250
Yl flor, Yl rng, no cut
SD: 4076.00
Inc: 14.24
Azi: 356.81
TVD: 4073.40
VS: 36.29
Cottage Grove @ 4,113'
MD 4,109' TVD
SD: 4107.00
Inc: 15.87
Azi: 355.66
TVD: 4103.34
VS: 44.34
SD: 4139.00
Inc: 18.40
Azi: 354.75
TVD: 4133.91
VS: 53.77
LS: 90% Crm-Buff, lt Gy, off Wh, frm, f xln, dull-chky, sli frm-frm, arg, SH: 10% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4171.00
Inc: 21.98
Azi: 352.57
TVD: 4163.94
VS: 64.80
LS: 90% Crm-Buff, lt Gy, off Wh, frm, f xln, dull-chky, sli frm-frm, arg, SH: 10% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4202.00
Inc: 24.57
Azi: 351.12
TVD: 4192.42
VS: 77.02
LS: 90% Crm-Buff, lt Gy, off Wh, frm, f xln, dull-chky, sli frm-frm, arg, SH: 10% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4265.00
Inc: 30.57
Azi: 349.26
TVD: 4248.19
VS: 106.14
LS: 90% Crm-Buff, lt Gy, off Wh, frm, f xln, dull-chky, sli frm-frm, arg, SH: 10% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
MAX GAS 330 u.
CG 90 u.
0 C1-NC4 100
CG 21 u.

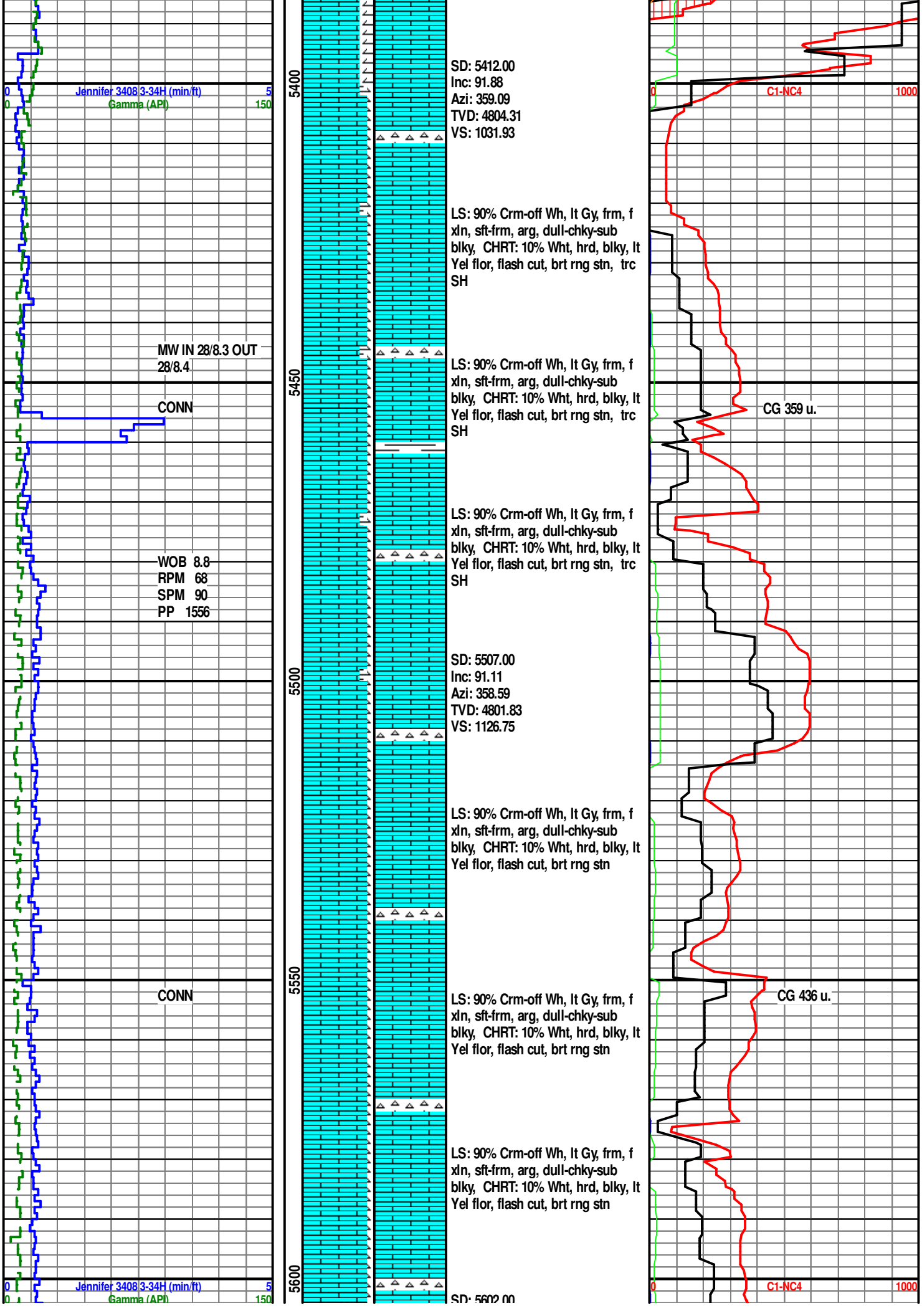

CONN
MW IN 40/9.2 OUT 39/9.3
WOB 17.9
RPM 62.9
SPM 184
PP 3097
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
MW IN 40/9.3 OUT 40/9.3
CONN
4300
4350
4400
4450
4500
SD: 4297.00
Inc: 32.54
Azi: 349.37
TVD: 4275.45
VS: 122.79
LS: 90% Crm-Buff, lt Gy, off Wh, frm, f xln, dull-chky, sli frm-frm, arg, SH: 10% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4329.00
Inc: 33.48
Azi: 349.49
TVD: 4302.29
VS: 140.11
LS: 70% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SH: 30% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4360.00
Inc: 34.03
Azi: 350.35
TVD: 4328.06
VS: 157.25
LS: 70% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SH: 30% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4392.00
Inc: 35.47
Azi: 351.95
TVD: 4354.35
VS: 175.43
LS: 70% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SH: 30% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4423.00
Inc: 36.75
Azi: 354.06
TVD: 4379.40
VS: 193.68
LS: 70% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SH: 30% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4455.00
Inc: 38.35
Azi: 355.45
TVD: 4404.77
VS: 213.18
LS: 40% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SH: 60% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4487.00
Inc: 40.42
Azi: 355.53
TVD: 4429.50
VS: 233.48
Oswego @ 4,495' MD, 4,435' TVD
LS: 40% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SH: 60% lt-med Gy, frm, blky, lam, rthy, no
CG 15 u.
0
C1-NC4
100
PROBLEMS WITH DAQ READING GAS
CG 2 u.
PROBLEMS WITH DAQ READING GAS
PROBLEMS WITH DAQ READING GAS
CG 3 u.

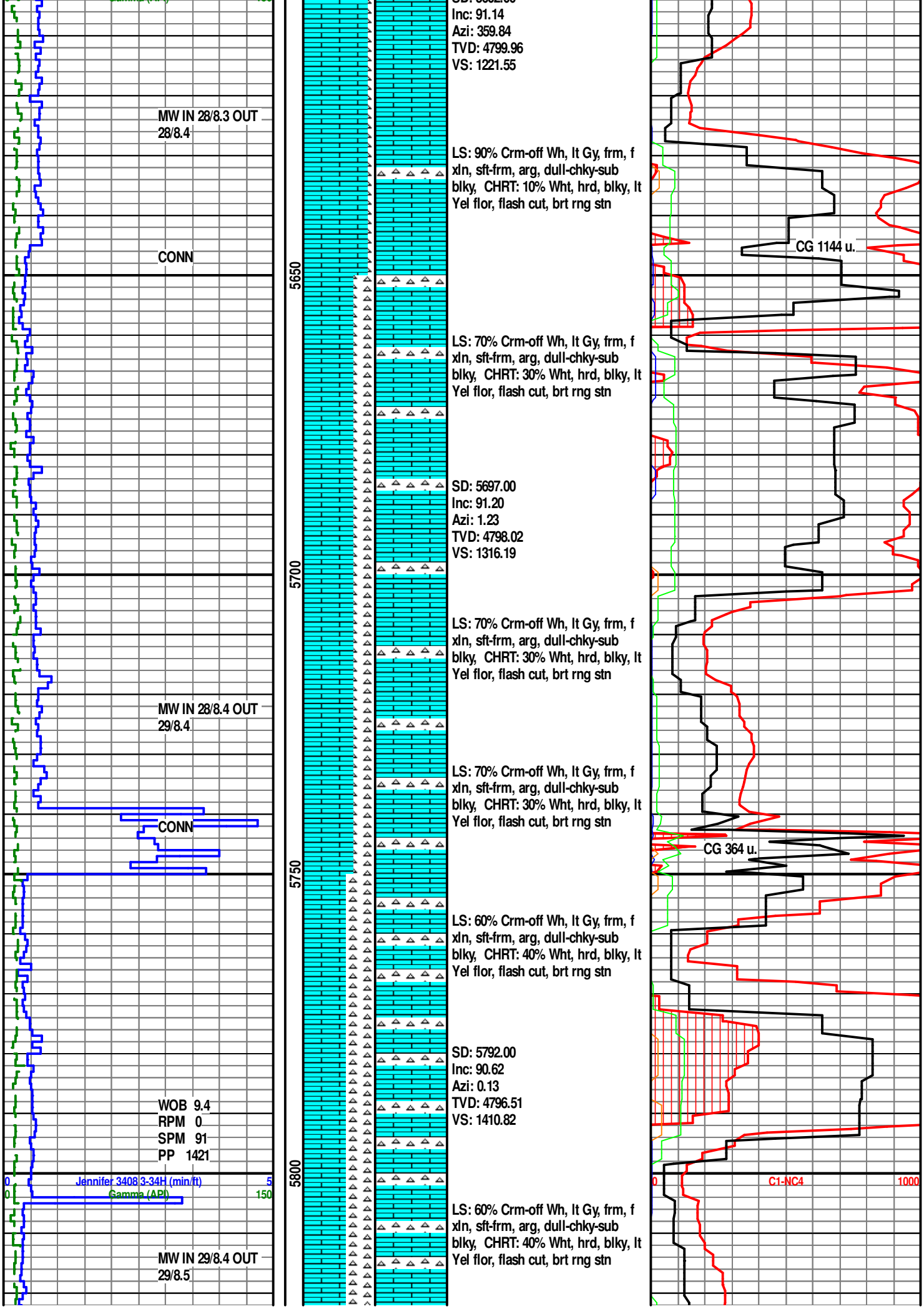

CONN
WOB 25.4
RPM 155.7
SPM 179
PP 3341
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
CONN
MW IN 50/9.2
OUT 47/9.2
WOB 25.4
RPM 155.7
SPM 179
PP 3341
CONN
4550
4600
4650
4700
flor, no ring/cut
SD: 4518.00
Inc: 42.75
Azi: 355.57
TVD: 4452.69
VS: 254.06
LS: 40% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SH: 60% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4550.00
Inc: 44.37
Azi: 355.03
TVD: 4475.87
VS: 276.11
LS: 40% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SH: 60% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4582.00
Inc: 45.00
Azi: 354.80
TVD: 4498.62
VS: 298.61
LS: 30% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SS: 10% Wht, consol, f-m grain, sb ang, srt, calc, SH: 60% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4613.00
Inc: 45.25
Azi: 354.40
TVD: 4520.50
VS: 320.57
SD: 4645.00
Inc: 47.08
Azi: 354.97
TVD: 4542.66
VS: 343.65
Cherokee @ 4,650' MD, 4,546' TVD
LS: 30% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SS: 10% Wht, consol, f-m grain, sb ang, srt, calc, SH: 60% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4676.00
Inc: 48.86
Azi: 354.43
TVD: 4563.41
VS: 366.67
LS: 40% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SS: 10% Wht, consol, f-m grain, sb ang, srt, calc, SH: 50% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
Verdigris @ 4,710' MD, 4,585' TVD
LS: 40% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SS: 10% Wht, consol, f-m grain, sb ang, srt, calc, SH: 50% lt-med Gy, frm, blky,
0
C1-NC4
100
CG 4 u.
CG 14 u.

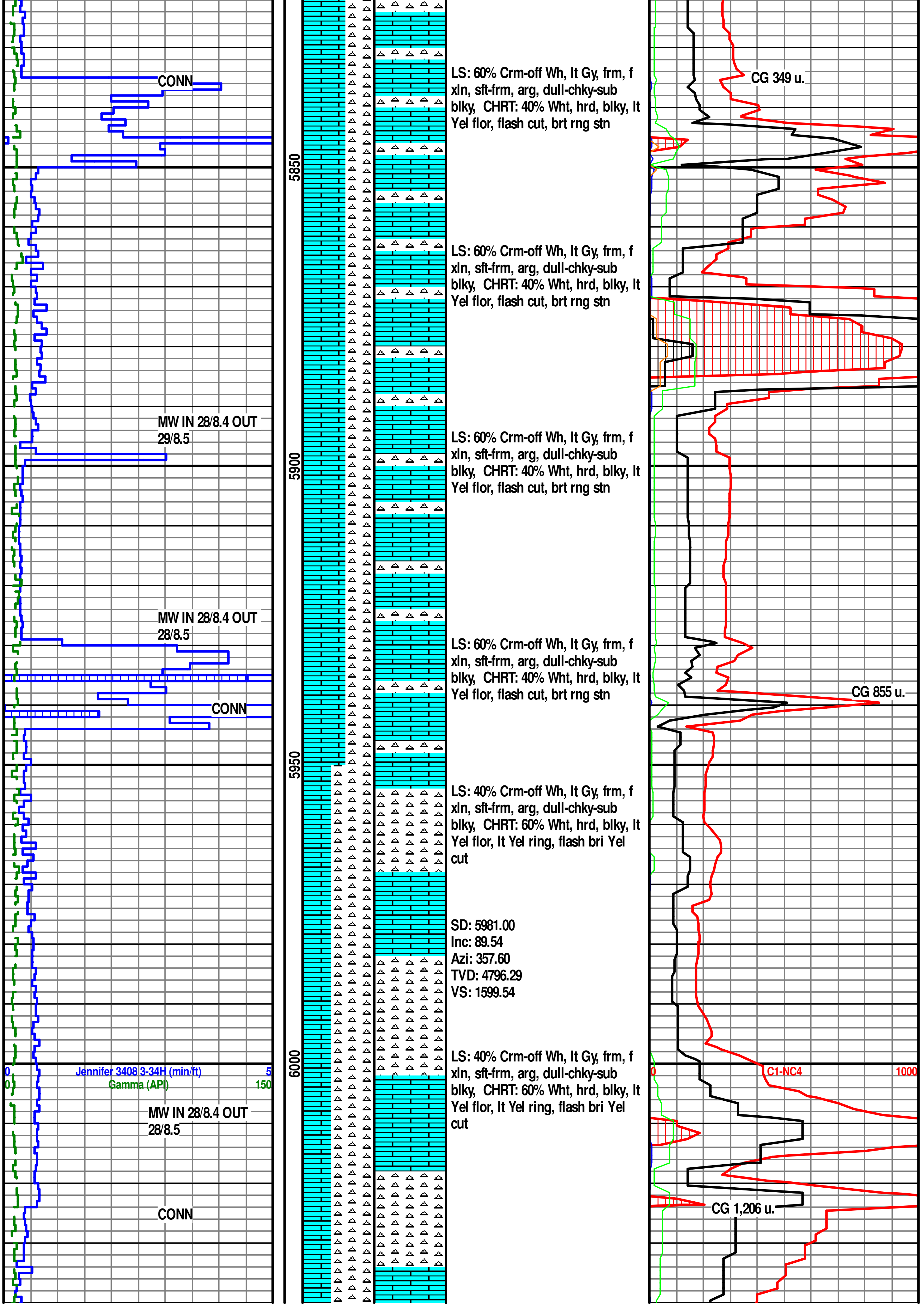

MW IN 54/9.3
OUT 54/9.3
0
Jennifer 3408 3-3H (min/ft)
5
0
Gamma ra
CONN
150
MW IN 58/9.0
OUT 59/9.0
MW IN 57/9.0
OUT 57/9.1
WOB 28.5
RPM 92
SPM 175
PP 3049
CONN
4750
4800
4850
4900
50
LS: 40% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SS: 10% Wht, consol, f-m grain, sb ang, srt, calc, SH: 50% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4771.00
Inc: 50.26
Azi: 354.48
TVD: 4625.03
VS: 438.95
LS: 40% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SS: 10% Wht, consol, f-m grain, sb ang, srt, calc, SH: 50% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4803.00
Inc: 50.38
Azi: 354.98
TVD: 4645.47
VS: 463.58
LS: 30% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SS: 10% Wht, consol, f-m grain, sb ang, srt, calc, SH: 60% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4834.00
Inc: 50.61
Azi: 355.89
TVD: 4665.19
VS: 487.50
LS: 30% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SH: 70% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4866.00
Inc: 52.58
Azi: 356.23
TVD: 4685.06
VS: 512.57
LS: 30% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SH: 70% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
SD: 4898.00
Inc: 55.83
Azi: 356.66
TVD: 4703.78
VS: 538.52
LS: 30% Crm-Buff, lt Gy, off Wh, frm, f xln, dull, frm, arg, SH: 70% lt-med Gy, frm, blky, lam, rthy, no flor, no ring/cut
Mississippi @ 4,920' MD, 4,716' TVD
SD: 4929.00
Inc: 59.39
Azi: 357.21
TVD: 4720.38
VS: 564.69
LS: 60% Crm-off Wh, lt Gy, frm, f
0
C1-NC4
100
CG 118 u.
CG 98 u.
Notice scale change
0-100 to 0-5000
Scale Change
0
C1-NC4
5000

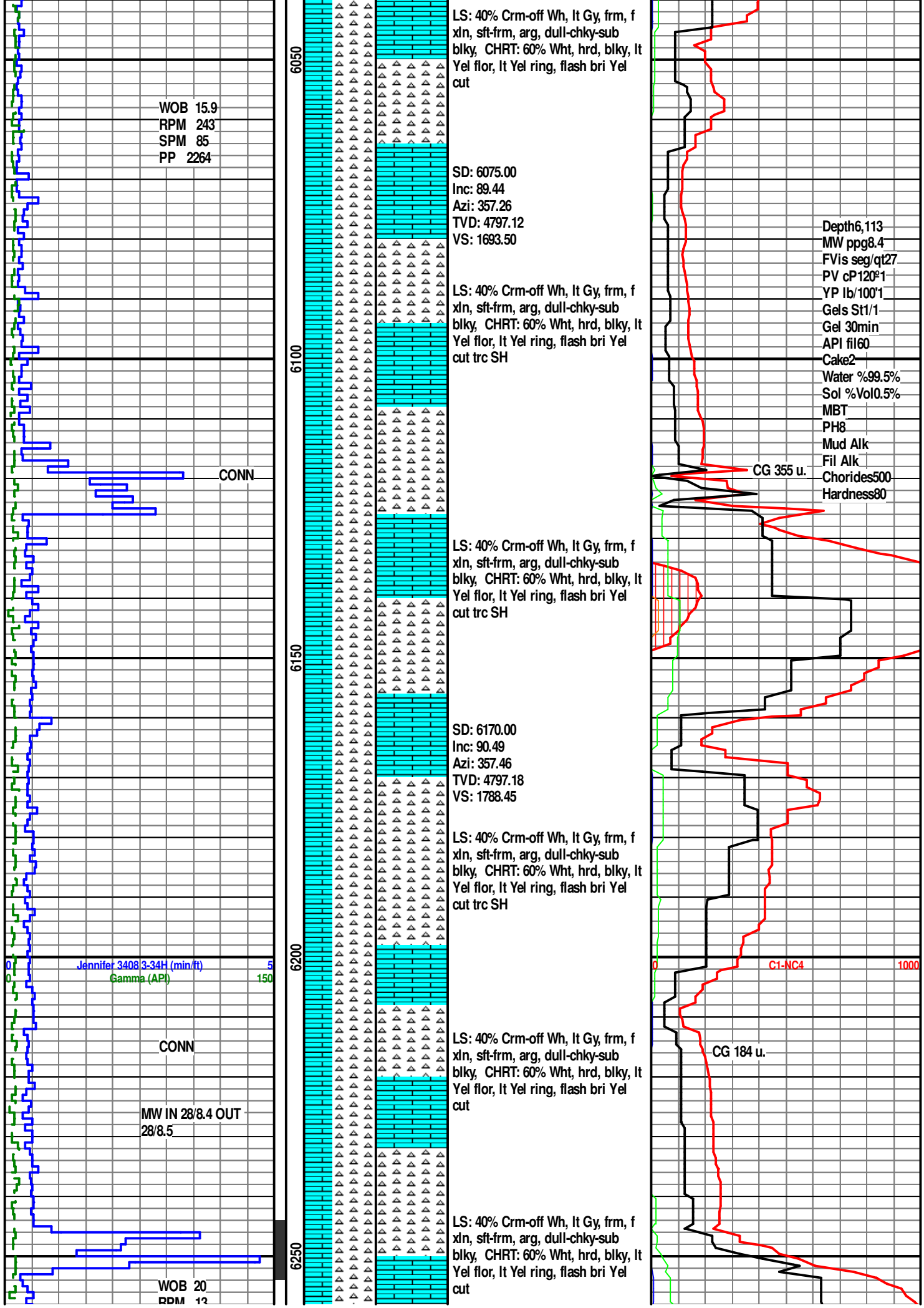

0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
CONN
WOB 18.3
RPM 93
SPM 177
PP 3010
MW IN 53/8.9 OUT 52/9.0
CONN
MW IN 53/8.9 OUT 54/8.9
4950
5000
5050
5100
5150
xln, sft-frm, arg, dull-chky-sub blky, SH: 40% lt-med Gy-dk Gy, frm, blky, rthy
SD: 4961.00
Inc: 63.05
Azi: 357.01
TVD: 4735.79
VS: 592.72
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, SH: 20% lt-med Gy-dk Gy, frm, blky, rthy, CHRT: 20% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
SD: 4992.00
Inc: 66.24
Azi: 357.08
TVD: 4749.06
VS: 620.72
SD: 5024.00
Inc: 68.26
Azi: 356.36
TVD: 4761.43
VS: 650.23
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, SH: 20% lt-med Gy-dk Gy, frm, blky, rthy, CHRT: 20% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
SD: 5055.00
Inc: 70.87
Azi: 356.68
TVD: 4772.26
VS: 679.27
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, SH: 20% lt-med Gy-dk Gy, frm, blky, rthy, CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
SD: 5087.00
Inc: 74.42
Azi: 356.82
TVD: 4781.80
VS: 709.80
SD: 5118.00
Inc: 76.90
Azi: 357.20
TVD: 4789.48
VS: 739.83
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, SH: 20% lt-med Gy-dk Gy, frm, blky, rthy, CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
SD: 5150.00
Inc: 79.44
Azi: 357.27
TVD: 4796.04
VS: 771.13
LS: 80% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, SH: 10% lt-med Gy-dk Gy, frm, blky, rthy, CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, brt
Scale Change
C1-NC4
0
1000
Notice scale change 0-5000 to 0-1000
CG 390 u.
C1-NC4
0
1000
CG 294 u.

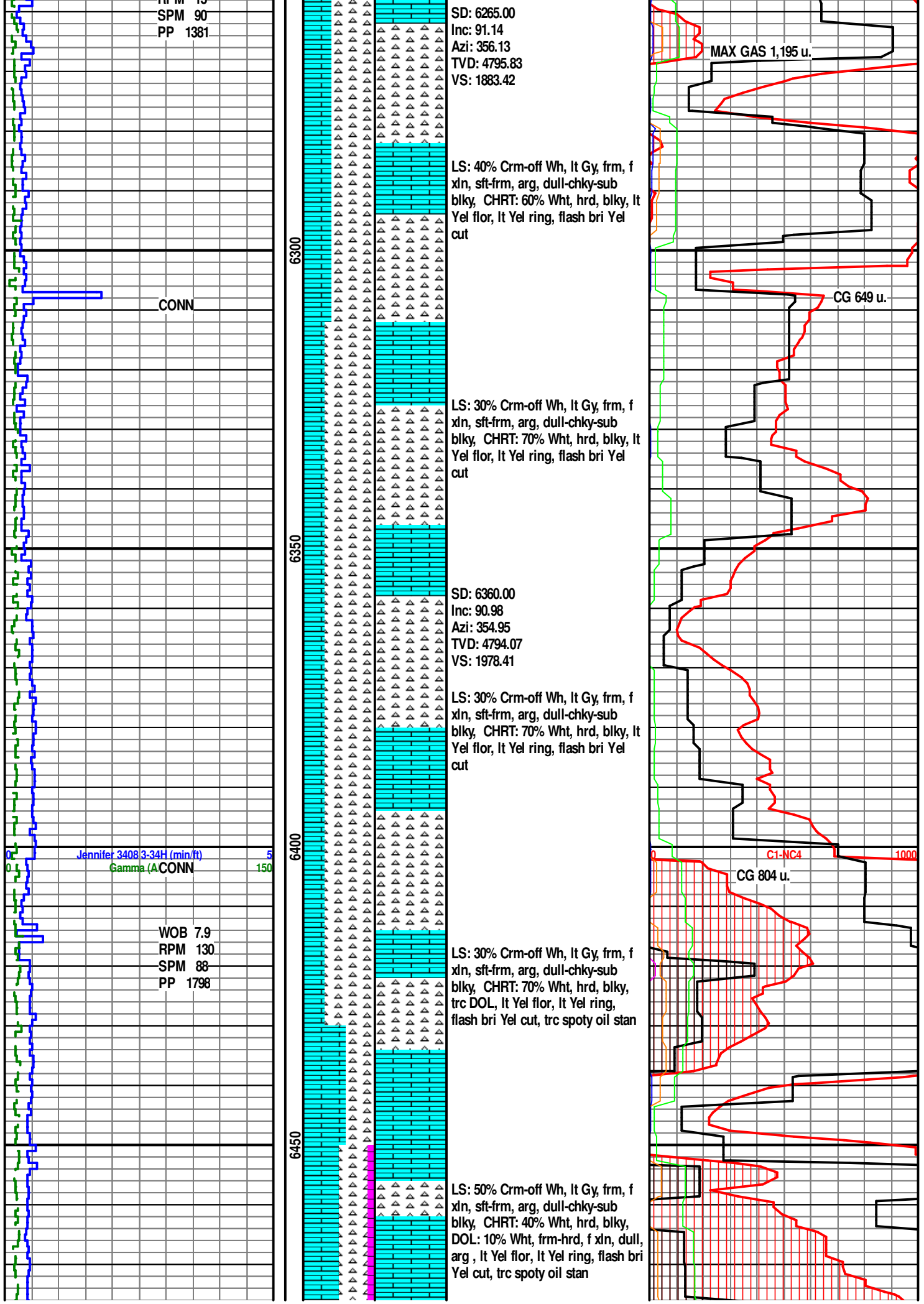

CONN
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
MW IN 54/8.9 OUT 55/8.9
WOB 37.3
RPM 71
SPM 172
PP 3240
CONN
MW IN 55/8.9 OUT 56/8.9
NUMBER 3
COMPANY HUGHES
MODEL TD405XX
TYPE HCC
SIZE 6 1/8
JETS 5X12
TOTAL FEET 619
TOTAL HRS 9
AVG ROP 97
WOB 15
RPM 50
DEPTH IN 5310
DEPTH OUT 5929
CONN
5200
5250
5300
5350
SD: 5181.00
Inc: 81.57
Azi: 358.05
TVD: 4801.15
VS: 801.69
SD: 5213.00
Inc: 84.11
Azi: 358.15
TVD: 4805.14
VS: 833.41
LS: 80% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, SH: 10% lt-med Gy-dk Gy, frm, blky, rthy, CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
SD: 5244.00
Inc: 87.04
Azi: 358.49
TVD: 4807.53
VS: 864.28
LS: 80% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, SH: 10% lt-med Gy-dk Gy, frm, blky, rthy, CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, SH: 10% lt-med Gy-dk Gy, frm, blky, rthy, CHRT: 20% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
TD @ 5,310' MD for Intermediate Casing
SD: 5317.00
Inc: 91.91
Azi: 359.40
TVD: 4807.45
VS: 937.16
LS: 80% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, SH: 10% lt-med Gy-dk Gy, frm, blky, rthy, CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, SH: 10% lt-med Gy-dk Gy, frm, blky, rthy, CHRT: 20% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
CG 425 u.
0
C1-NC4
1000
CG 608 u.
TRIP GAS 701 u.
CG 135 u.
MAX GAS 1,402 u.

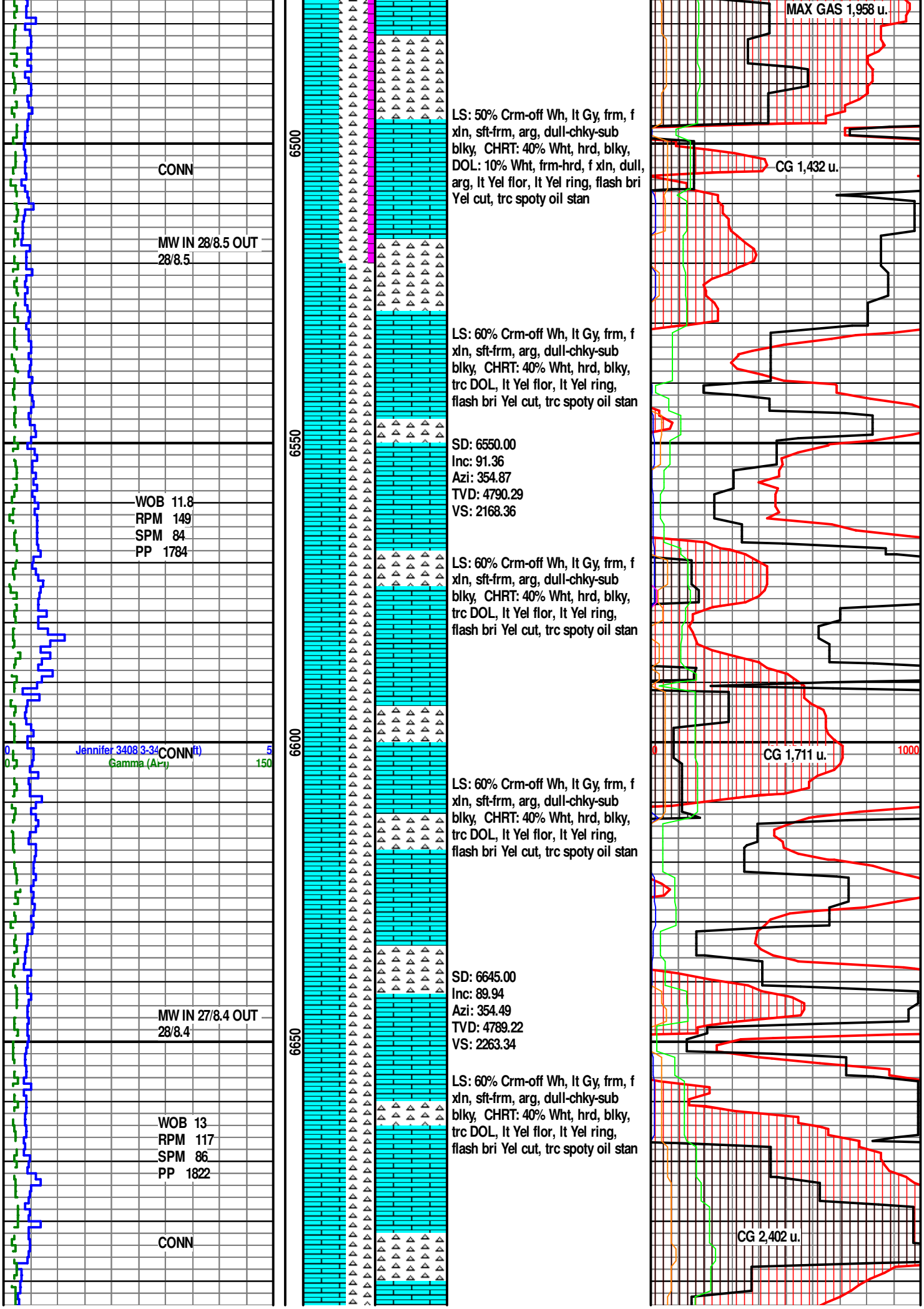

0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
MW IN 28/8.3 OUT
28/8.4
CONN
WOB 8.8
RPM 68
SPM 90
PP 1556
CONN
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
5400
5450
5500
5550
5600
SD: 5412.00
Inc: 91.88
Azi: 359.09
TVD: 4804.31
VS: 1031.93
LS: 90% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn, trc SH
LS: 90% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn, trc SH
LS: 90% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn, trc SH
SD: 5507.00
Inc: 91.11
Azi: 358.59
TVD: 4801.83
VS: 1126.75
LS: 90% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
LS: 90% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
LS: 90% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
SD: 5602.00
0
C1-NC4
1000
CG 359 u.
CG 436 u.
0
C1-NC4
1000

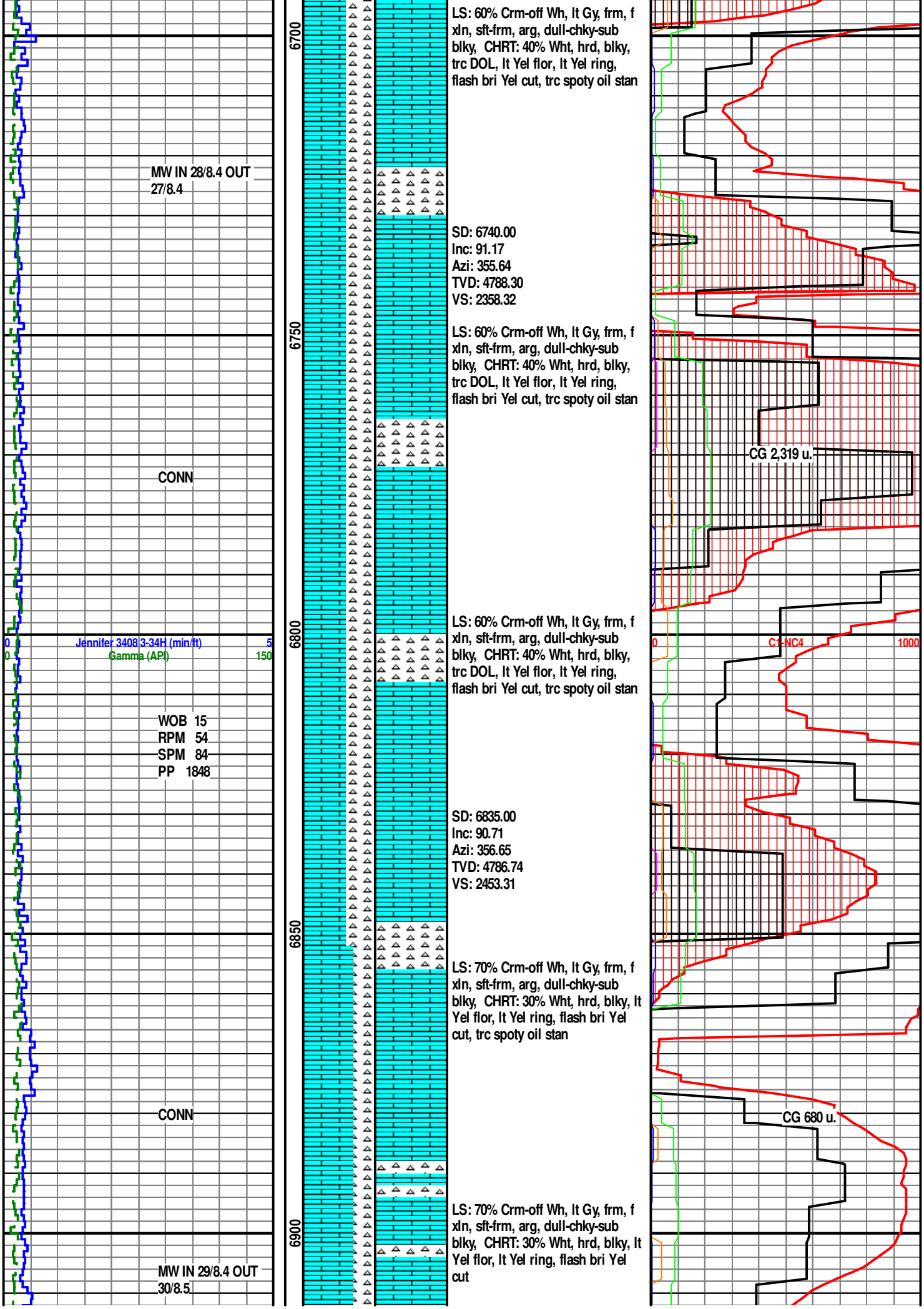

Inc: 91.14
Azi: 359.84
TVD: 4799.96
VS: 1221.55
MW IN 28/8.3 OUT
28/8.4
LS: 90% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
CONN
CG 1144 u.
5650
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 30% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
SD: 5697.00
Inc: 91.20
Azi: 1.23
TVD: 4798.02
VS: 1316.19
5700
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 30% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
MW IN 28/8.4 OUT
29/8.4
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 30% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
CONN
CG 364 u.
5750
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 40% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
SD: 5792.00
Inc: 90.62
Azi: 0.13
TVD: 4796.51
VS: 1410.82
WOB 9.4
RPM 0
SPM 91
PP 1421
5800
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
0
C1-NC4
1000
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 40% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
MW IN 29/8.4 OUT
29/8.5

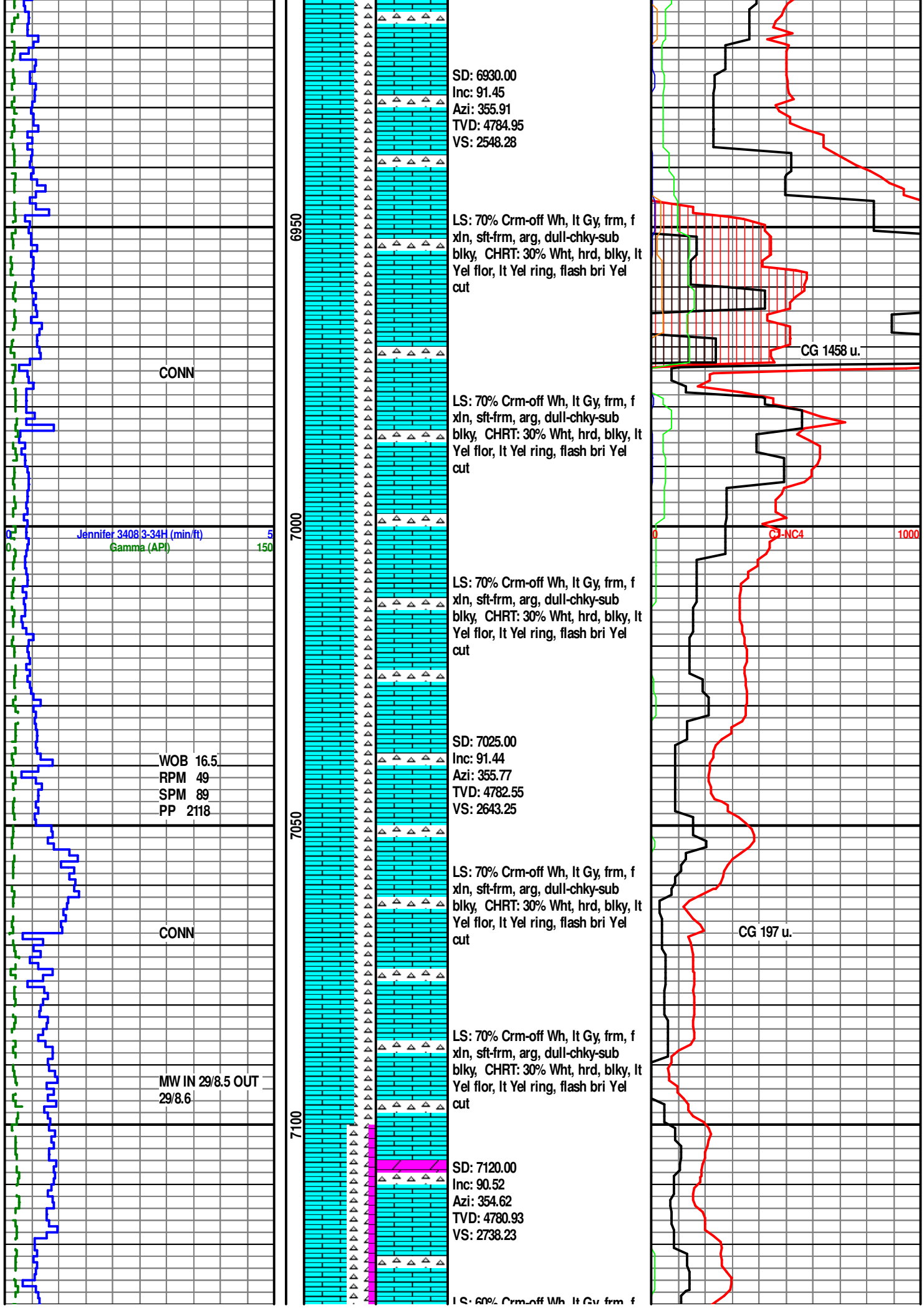

CONN
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 40% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
CG 349 u.
5850
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 40% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
MW IN 28/8.4 OUT 29/8.5
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 40% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
5900
MW IN 28/8.4 OUT 28/8.5
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 40% Wht, hrd, blky, lt Yel flor, flash cut, brt rng stn
CG 855 u.
CONN
5950
LS: 40% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 60% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut
SD: 5981.00
Inc: 89.54
Azi: 357.60
TVD: 4796.29
VS: 1599.54
6000
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
0
C1-NC4
1000
LS: 40% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 60% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut
MW IN 28/8.4 OUT 28/8.5
CG 1,206 u.
CONN

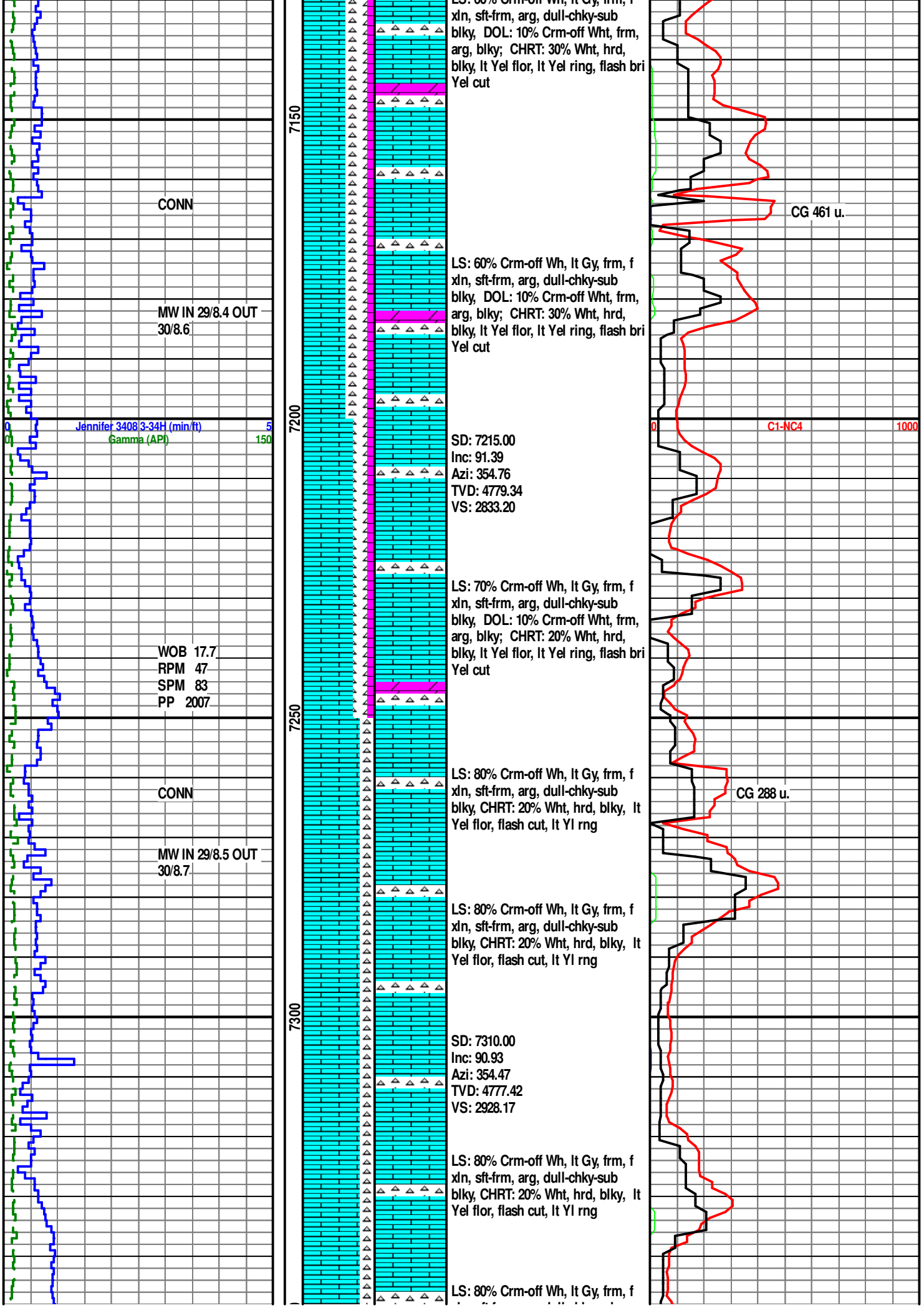

WOB 15.9
RPM 243
SPM 85
PP 2264
CONN
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
CONN
MW IN 28/8.4 OUT 28/8.5
WOB 20
RPM 13
6050
6100
6150
6200
6250
LS: 40% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 60% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut
SD: 6075.00
Inc: 89.44
Azi: 357.26
TVD: 4797.12
VS: 1693.50
LS: 40% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 60% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut trc SH
LS: 40% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 60% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut trc SH
SD: 6170.00
Inc: 90.49
Azi: 357.46
TVD: 4797.18
VS: 1788.45
LS: 40% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 60% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut trc SH
LS: 40% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 60% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut
LS: 40% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 60% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut
Depth6,113
MW ppg8.4
FVis seg/qt27
PV cP120º1
YP lb/100'1
Gels St1/1
Gel 30min
API fil60
Cake2
Water %99.5%
Sol %Vol0.5%
MBT
PH8
Mud Alk
Fil Alk
Chorides500
Hardness80
CG 355 u.
0
C1-NC4
1000
CG 184 u.

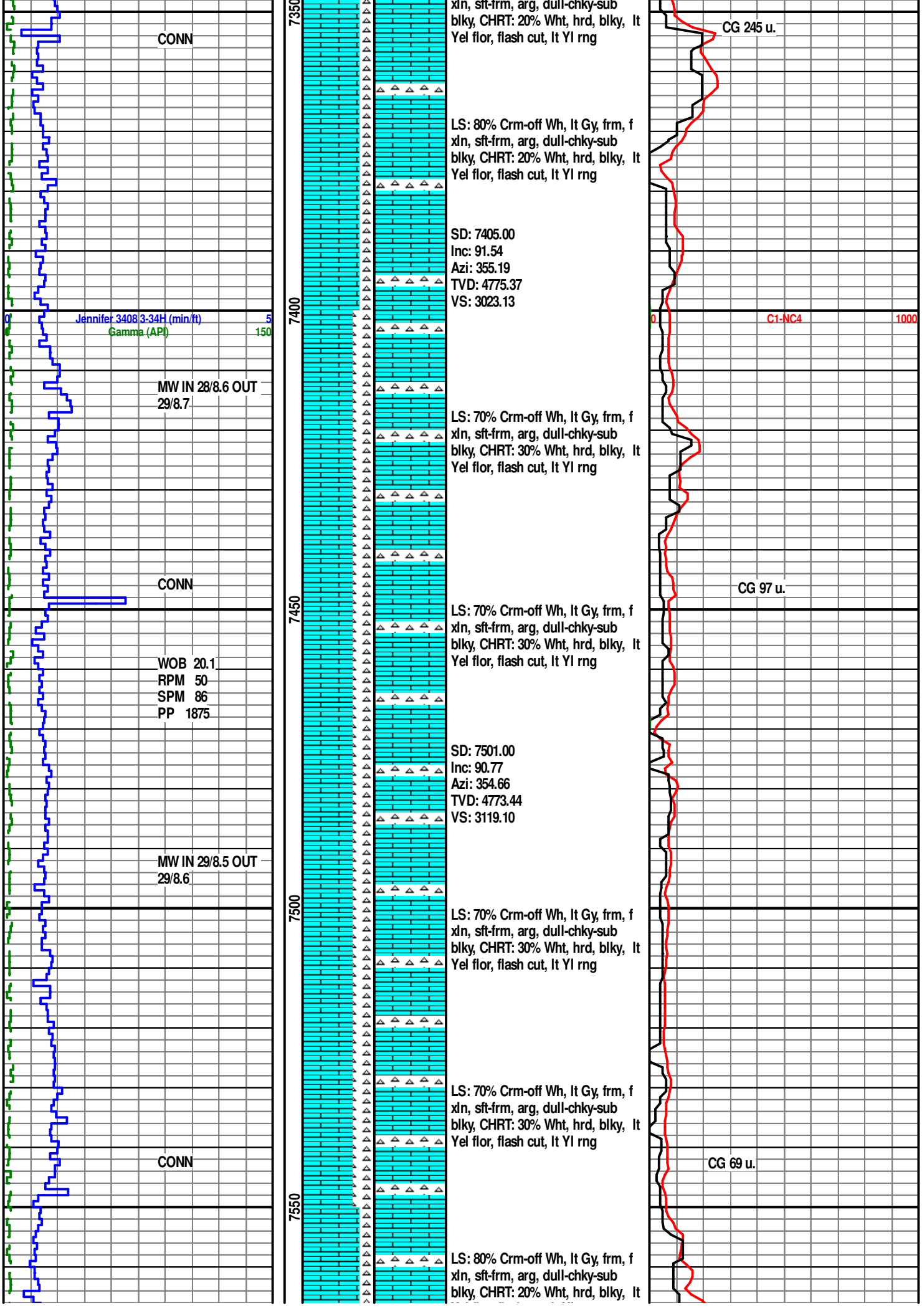

SPM 90
PP 1381
CONN
Jennifer 3408 3-34H (min/ft)
Gamma (A
CONN
WOB 7.9
RPM 130
SPM 88
PP 1798
6300
6350
6400
6450
SD: 6265.00
Inc: 91.14
Azi: 356.13
TVD: 4795.83
VS: 1883.42
LS: 40% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 60% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut
LS: 30% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 70% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut
SD: 6360.00
Inc: 90.98
Azi: 354.95
TVD: 4794.07
VS: 1978.41
LS: 30% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 70% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut
LS: 30% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 70% Wht, hrd, blky, trc DOL, lt Yel flor, lt Yel ring, flash bri Yel cut, trc spoty oil stan
LS: 50% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 40% Wht, hrd, blky, DOL: 10% Wht, frm-hrd, f xln, dull, arg , lt Yel flor, lt Yel ring, flash bri Yel cut, trc spoty oil stan
MAX GAS 1,195 u.
CG 649 u.
C1-NC4
CG 804 u.

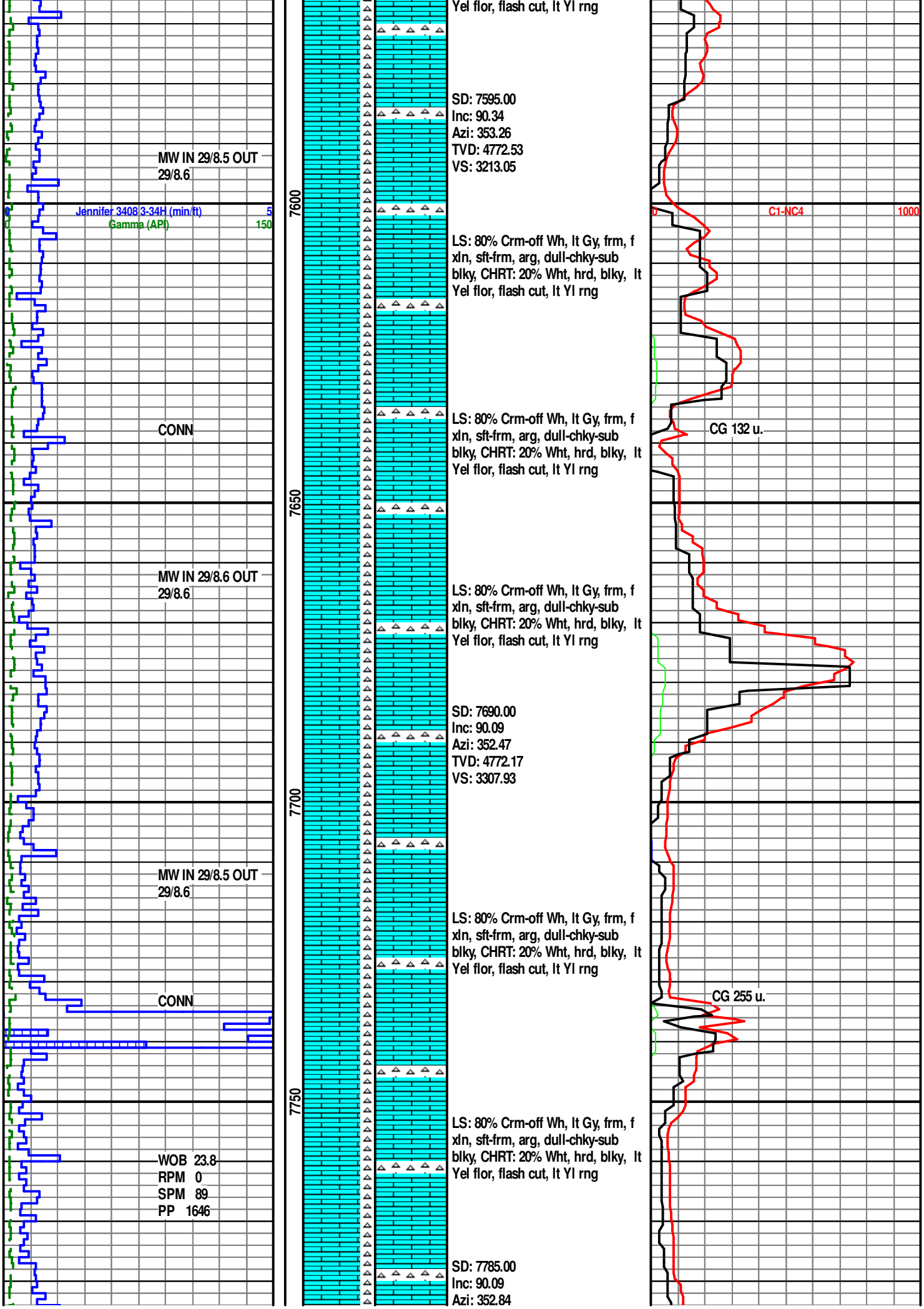

MAX GAS 1,958 u.
CONN
MW IN 28/8.5 OUT 28/8.5
CG 1,432 u.
LS: 50% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 40% Wht, hrd, blky, DOL: 10% Wht, frm-hrd, f xln, dull, arg, lt Yel flor, lt Yel ring, flash bri Yel cut, trc spoty oil stan
6500
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 40% Wht, hrd, blky, trc DOL, lt Yel flor, lt Yel ring, flash bri Yel cut, trc spoty oil stan
SD: 6550.00
Inc: 91.36
Azi: 354.87
TVD: 4790.29
VS: 2168.36
6550
WOB 11.8
RPM 149
SPM 84
PP 1784
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 40% Wht, hrd, blky, trc DOL, lt Yel flor, lt Yel ring, flash bri Yel cut, trc spoty oil stan
0
Jennifer 3408 3-34
Gamma (API)
CONN
(ft)
5
150
0
CG 1,711 u.
1000
6600
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 40% Wht, hrd, blky, trc DOL, lt Yel flor, lt Yel ring, flash bri Yel cut, trc spoty oil stan
SD: 6645.00
Inc: 89.94
Azi: 354.49
TVD: 4789.22
VS: 2263.34
6650
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 40% Wht, hrd, blky, trc DOL, lt Yel flor, lt Yel ring, flash bri Yel cut, trc spoty oil stan
MW IN 27/8.4 OUT 28/8.4
WOB 13
RPM 117
SPM 86
PP 1822
CG 2,402 u.
CONN

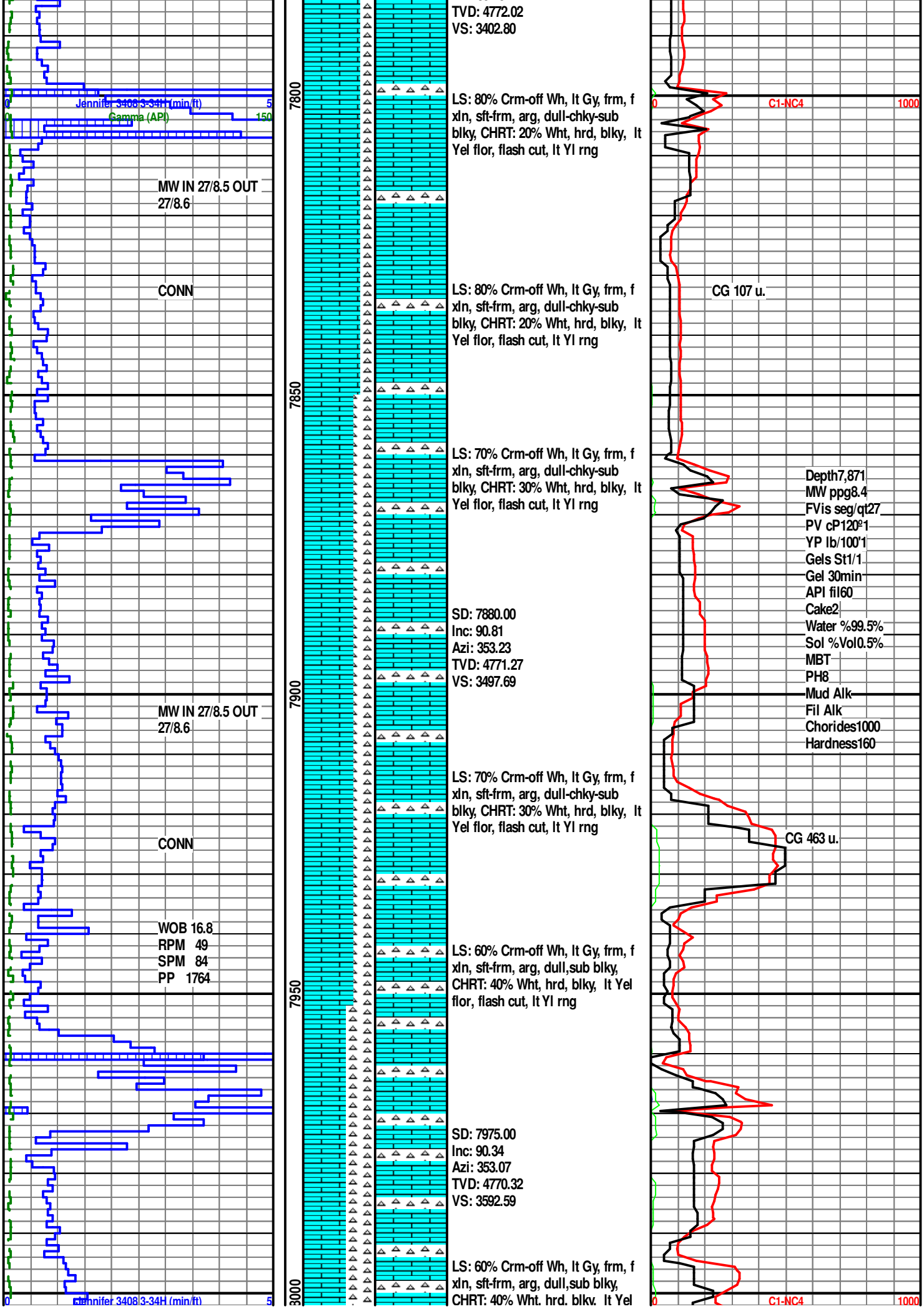

MW IN 28/8.4 OUT 27/8.4
CONN
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
WOB 15
RPM 54
SPM 84
PP 1848
CONN
MW IN 29/8.4 OUT 30/8.5
6700
6750
6800
6850
6900
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 40% Wht, hrd, blky, trc DOL, lt Yel flor, lt Yel ring, flash bri Yel cut, trc spoty oil stan
SD: 6740.00
Inc: 91.17
Azi: 355.64
TVD: 4788.30
VS: 2358.32
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 40% Wht, hrd, blky, trc DOL, lt Yel flor, lt Yel ring, flash bri Yel cut, trc spoty oil stan
CG 2,319 u.
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 40% Wht, hrd, blky, trc DOL, lt Yel flor, lt Yel ring, flash bri Yel cut, trc spoty oil stan
0
C1-NC4
1000
SD: 6835.00
Inc: 90.71
Azi: 356.65
TVD: 4786.74
VS: 2453.31
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 30% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut, trc spoty oil stan
CG 680 u.
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 30% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut

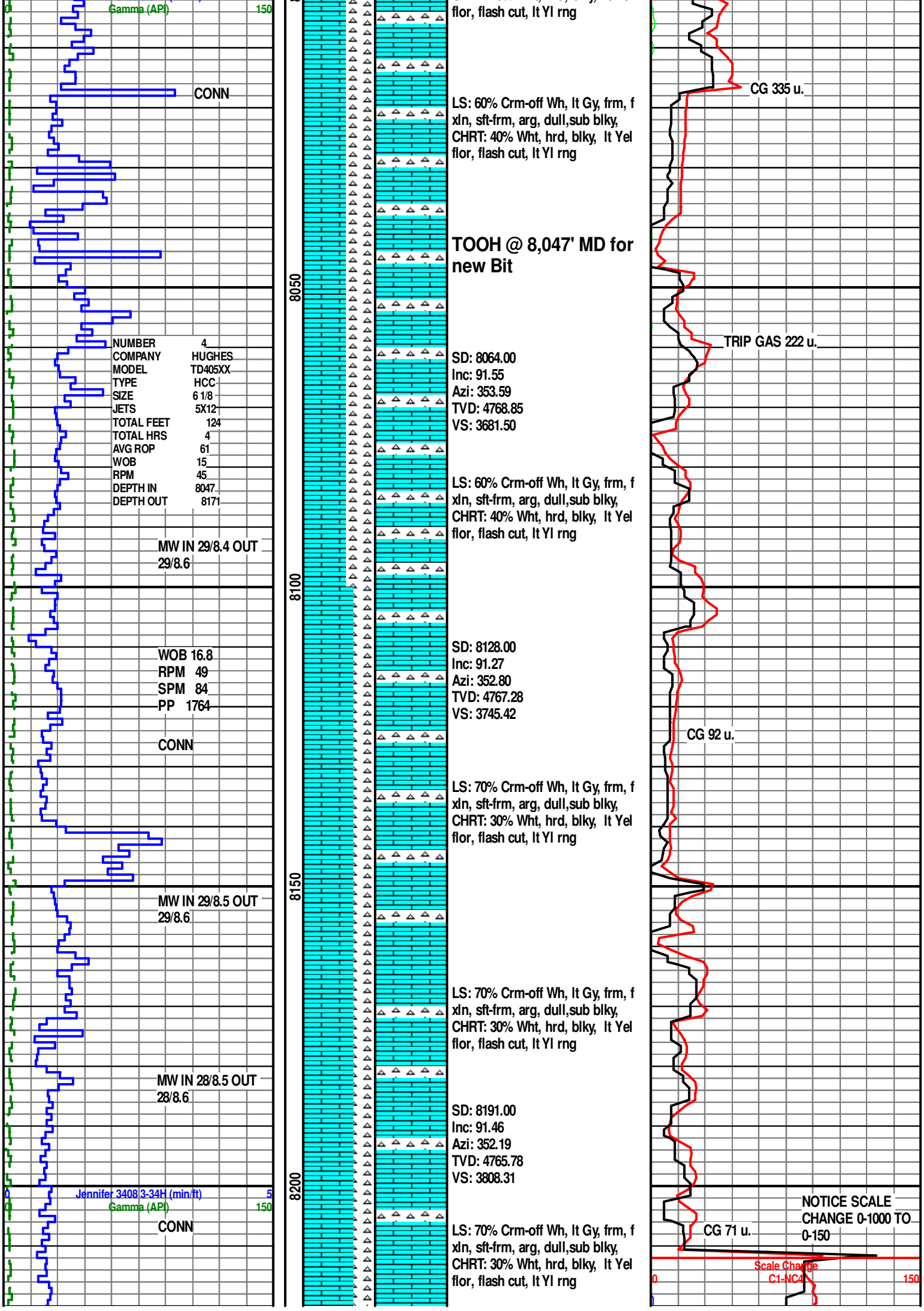

SD: 6930.00
Inc: 91.45
Azi: 355.91
TVD: 4784.95
VS: 2548.28
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 30% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut
CG 1458 u.
CONN
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 30% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
0
C1-NC4
1000
6950
7000
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 30% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut
WOB 16.5
RPM 49
SPM 89
PP 2118
SD: 7025.00
Inc: 91.44
Azi: 355.77
TVD: 4782.55
VS: 2643.25
7050
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 30% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut
CONN
CG 197 u.
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 30% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut
MW IN 29/8.5 OUT 29/8.6
7100
SD: 7120.00
Inc: 90.52
Azi: 354.62
TVD: 4780.93
VS: 2738.23
LS: 60% Crm-off Wh, lt Gy, frm, f

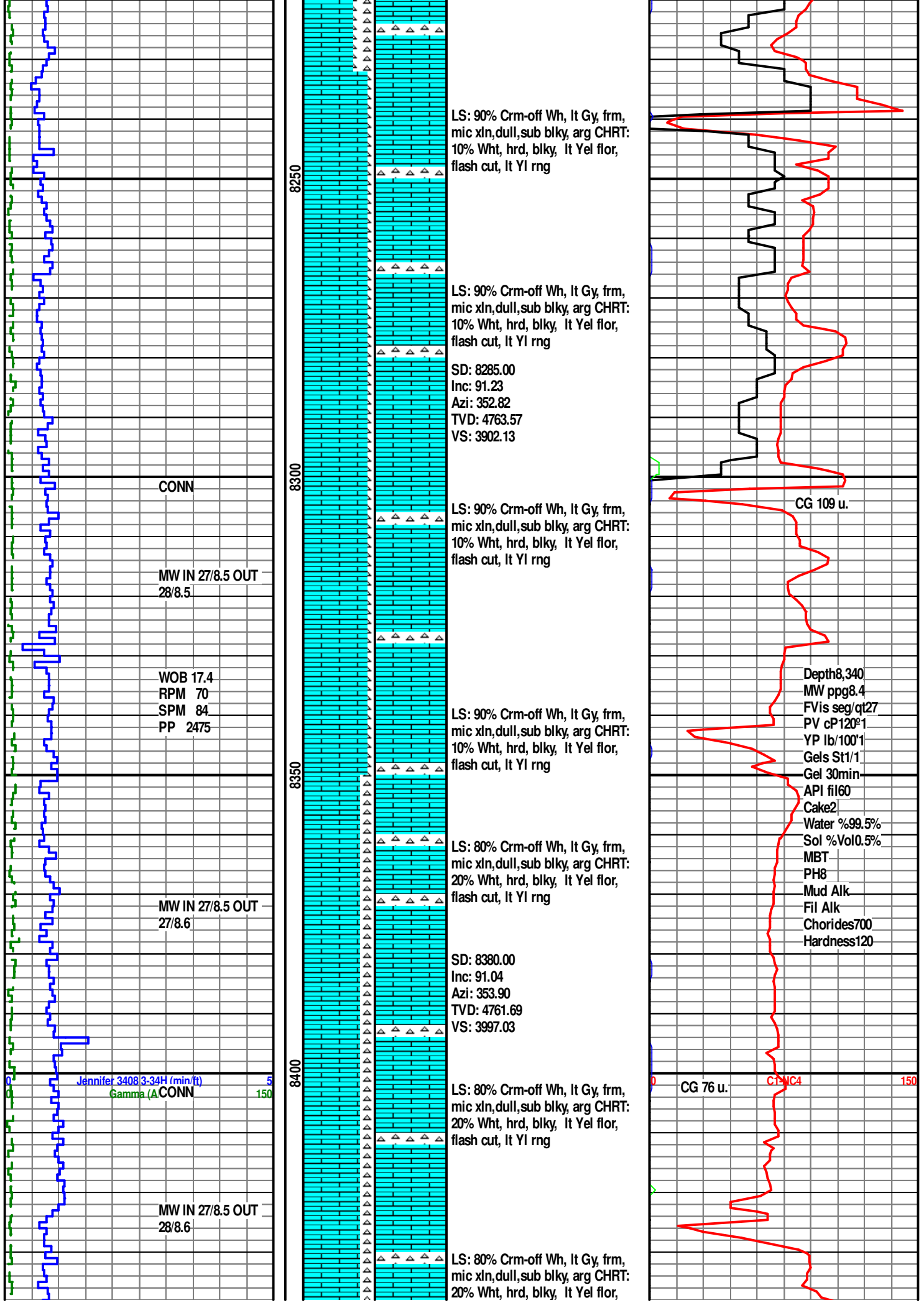

xln, sft-frm, arg, dull-chky-sub blky, DOL: 10% Crm-off Wht, frm, arg, blky; CHRT: 30% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut
CONN
MW IN 29/8.4 OUT 30/8.6
Jennifer 3408 3-34H (min/ft)
Gamma (API)
0
5
150
7150
7200
7250
7300
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, DOL: 10% Crm-off Wht, frm, arg, blky; CHRT: 30% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut
SD: 7215.00
Inc: 91.39
Azi: 354.76
TVD: 4779.34
VS: 2833.20
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, DOL: 10% Crm-off Wht, frm, arg, blky; CHRT: 20% Wht, hrd, blky, lt Yel flor, lt Yel ring, flash bri Yel cut
WOB 17.7
RPM 47
SPM 83
PP 2007
CONN
MW IN 29/8.5 OUT 30/8.7
LS: 80% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 20% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
SD: 7310.00
Inc: 90.93
Azi: 354.47
TVD: 4777.42
VS: 2928.17
LS: 80% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 20% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
LS: 80% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 20% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
LS: 80% Crm-off Wh, lt Gy, frm, f
CG 461 u.
0
C1-NC4
1000
CG 288 u.

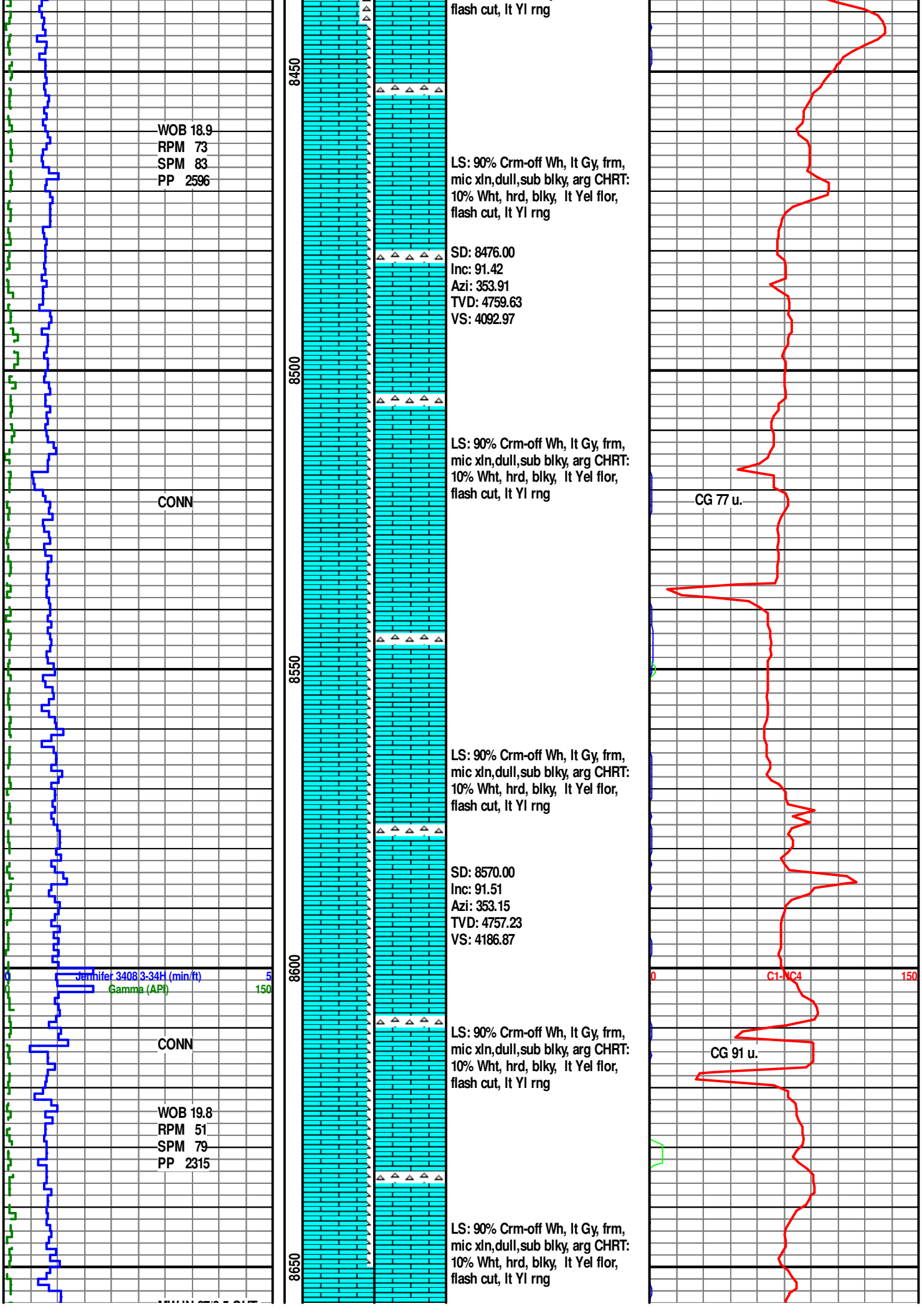

CONN
0
Jennifer 3408 3-34H (min/ft)
5
Gamma (API)
150
MW IN 28/8.6 OUT
29/8.7
CONN
WOB 20.1
RPM 50
SPM 86
PP 1875
MW IN 29/8.5 OUT
29/8.6
CONN
7350
7400
7450
7500
7550
xln, sft-frm, arg, dull-chky-sub
blky, CHRT: 20% Wht, hrd, blky, lt
Yel flor, flash cut, lt Yl rng
CG 245 u.
LS: 80% Crm-off Wh, lt Gy, frm, f
xln, sft-frm, arg, dull-chky-sub
blky, CHRT: 20% Wht, hrd, blky, lt
Yel flor, flash cut, lt Yl rng
SD: 7405.00
Inc: 91.54
Azi: 355.19
TVD: 4775.37
VS: 3023.13
0
C1-NC4
1000
LS: 70% Crm-off Wh, lt Gy, frm, f
xln, sft-frm, arg, dull-chky-sub
blky, CHRT: 30% Wht, hrd, blky, lt
Yel flor, flash cut, lt Yl rng
CG 97 u.
LS: 70% Crm-off Wh, lt Gy, frm, f
xln, sft-frm, arg, dull-chky-sub
blky, CHRT: 30% Wht, hrd, blky, lt
Yel flor, flash cut, lt Yl rng
SD: 7501.00
Inc: 90.77
Azi: 354.66
TVD: 4773.44
VS: 3119.10
LS: 70% Crm-off Wh, lt Gy, frm, f
xln, sft-frm, arg, dull-chky-sub
blky, CHRT: 30% Wht, hrd, blky, lt
Yel flor, flash cut, lt Yl rng
LS: 70% Crm-off Wh, lt Gy, frm, f
xln, sft-frm, arg, dull-chky-sub
blky, CHRT: 30% Wht, hrd, blky, lt
Yel flor, flash cut, lt Yl rng
CG 69 u.
LS: 80% Crm-off Wh, lt Gy, frm, f
xln, sft-frm, arg, dull-chky-sub
blky, CHRT: 20% Wht, hrd, blky, lt

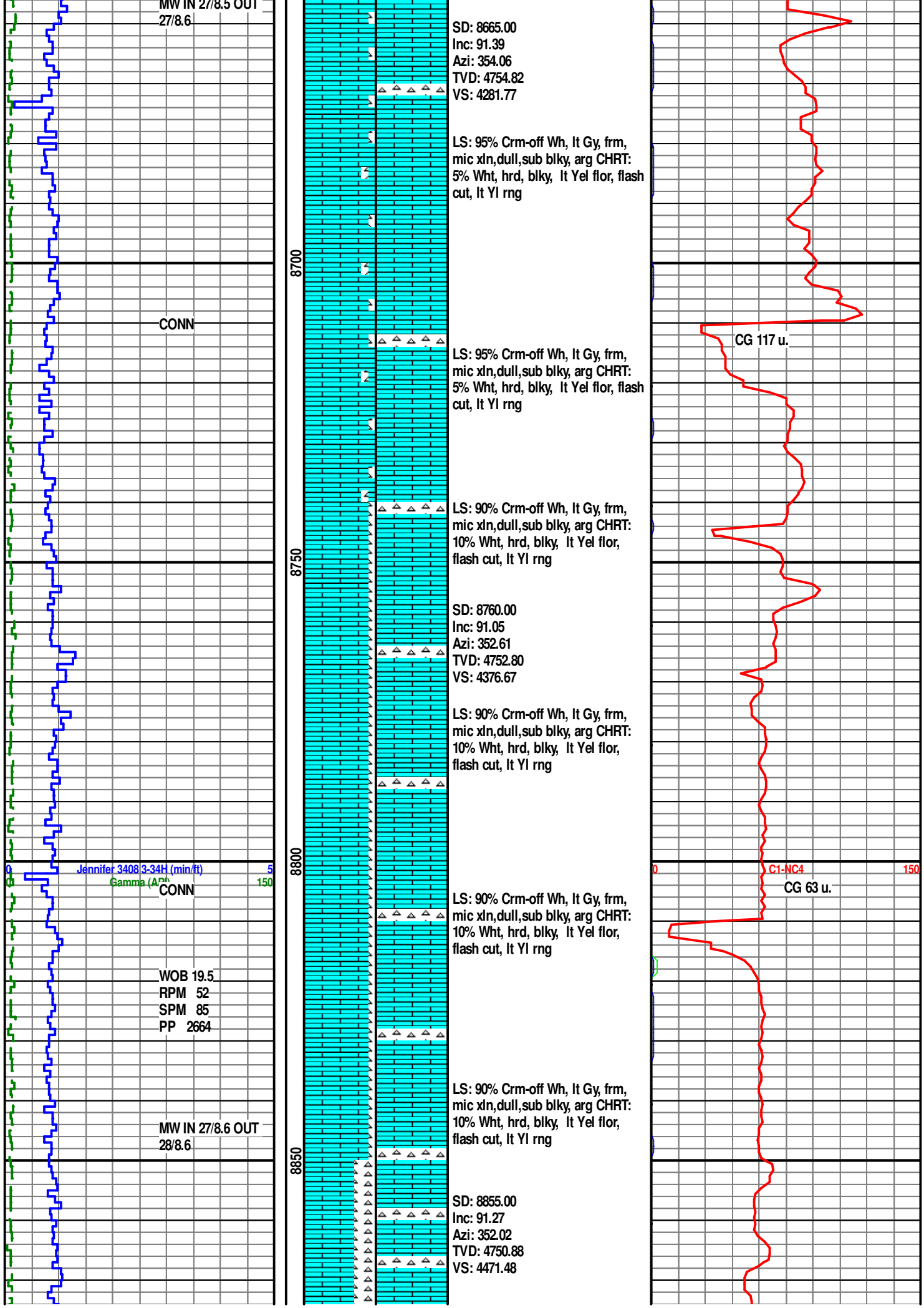

Yel flor, flash cut, lt Yl rng
SD: 7595.00
Inc: 90.34
Azi: 353.26
TVD: 4772.53
VS: 3213.05
MW IN 29/8.5 OUT
29/8.6
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
7600
C1-NC4
0
1000
LS: 80% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 20% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
CONN
CG 132 u.
7650
MW IN 29/8.6 OUT
29/8.6
LS: 80% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 20% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
SD: 7690.00
Inc: 90.09
Azi: 352.47
TVD: 4772.17
VS: 3307.93
7700
MW IN 29/8.5 OUT
29/8.6
LS: 80% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 20% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
CONN
CG 255 u.
7750
LS: 80% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 20% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
WOB 23.8
RPM 0
SPM 89
PP 1646
SD: 7785.00
Inc: 90.09
Azi: 352.84

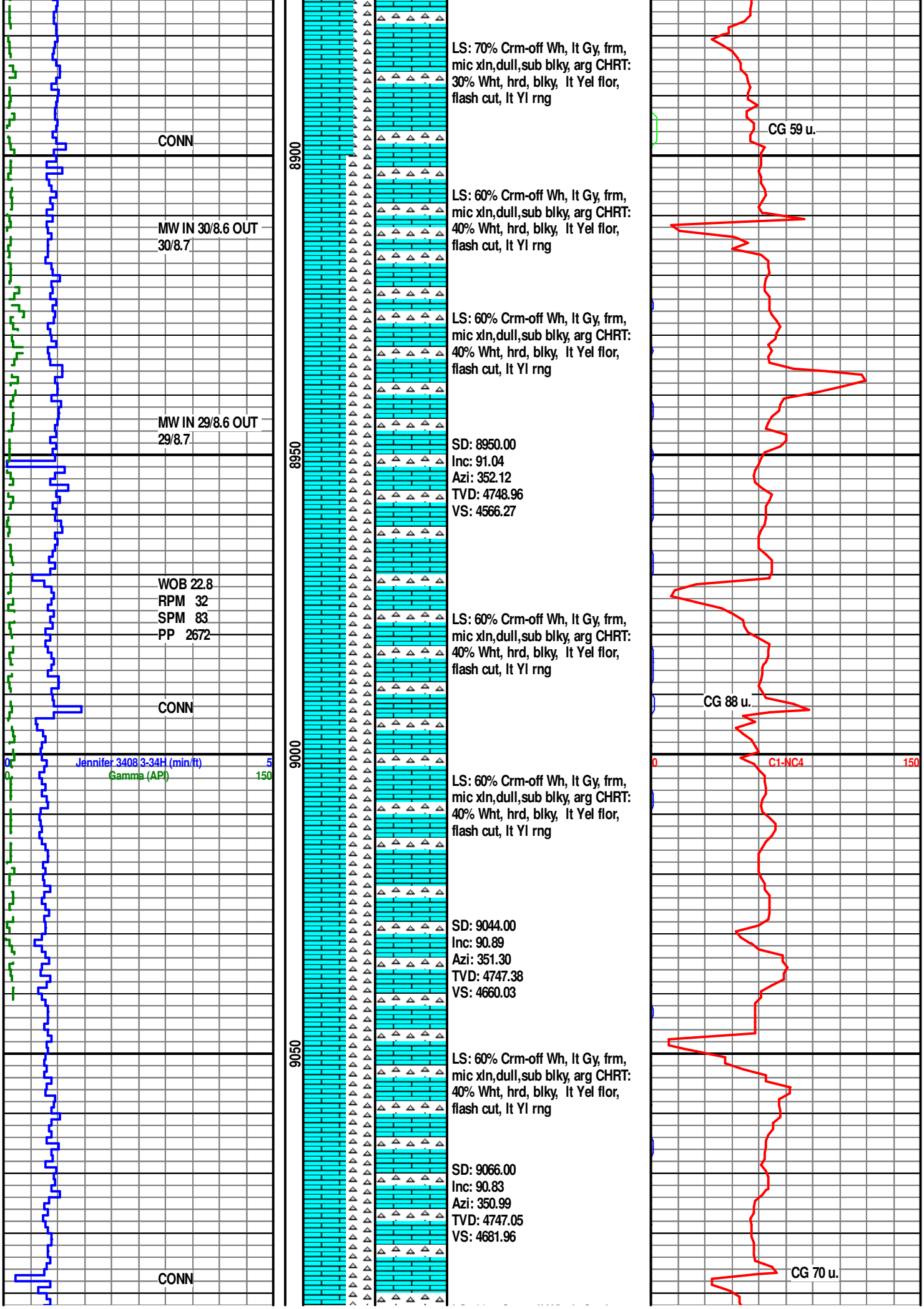

Jennifer 3408 3-34H (min/ft)
0
5
Gamma (API)
0
150
MW IN 27/8.5 OUT
27/8.6
CONN
MW IN 27/8.5 OUT
27/8.6
CONN
WOB 16.8
RPM 49
SPM 84
PP 1764
Jennifer 3408 3-34H (min/ft)
0
5
7800
7850
7900
7950
8000
TVD: 4772.02
VS: 3402.80
LS: 80% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 20% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
LS: 80% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 20% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 30% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
SD: 7880.00
Inc: 90.81
Azi: 353.23
TVD: 4771.27
VS: 3497.69
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull-chky-sub blky, CHRT: 30% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull,sub blky, CHRT: 40% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
SD: 7975.00
Inc: 90.34
Azi: 353.07
TVD: 4770.32
VS: 3592.59
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull,sub blky, CHRT: 40% Wht, hrd, blky, lt Yel
0
C1-NC4
1000
CG 107 u.
Depth7,871
MW ppg8.4
FVis seg/qt27
PV cP120º1
YP lb/100'1
Gels St1/1
Gel 30min
API fil60
Cake2
Water %99.5%
Sol %Vol0.5%
MBT
PH8
Mud Alk
Fil Alk
Chorides1000
Hardness160
CG 463 u.
0
C1-NC4
1000

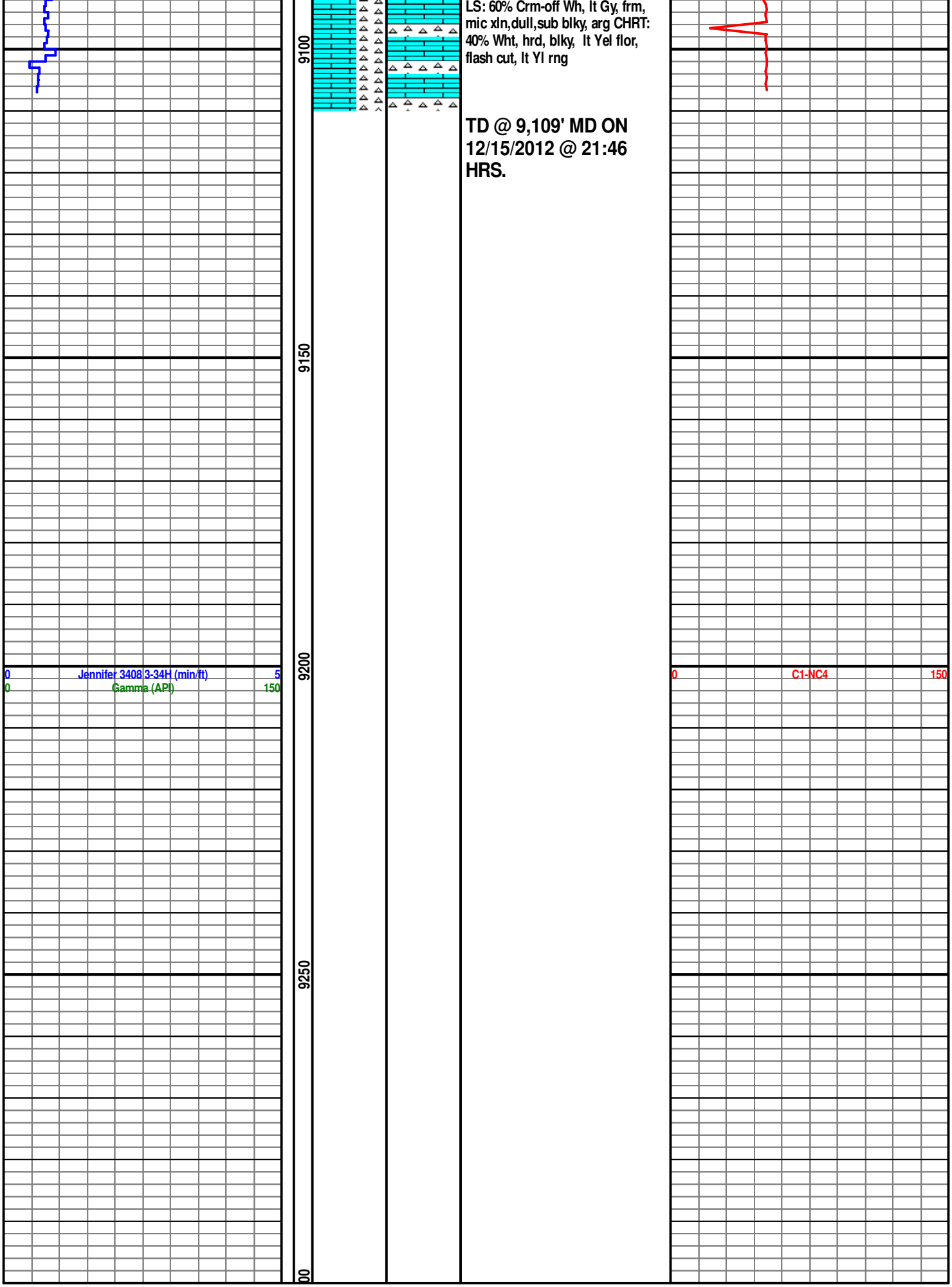

Gamma (API)
150
CONN
NUMBER 4
COMPANY HUGHES
MODEL TD405XX
TYPE HCC
SIZE 6 1/8
JETS 5X12
TOTAL FEET 124
TOTAL HRS 4
AVG ROP 61
WOB 15
RPM 45
DEPTH IN 8047
DEPTH OUT 8171
MW IN 29/8.4 OUT 29/8.6
WOB 16.8
RPM 49
SPM 84
PP 1764
CONN
MW IN 29/8.5 OUT 29/8.6
MW IN 28/8.5 OUT 28/8.6
0
Jennifer 3408 3-34H (min/ft)
5
Gamma (API)
150
CONN
8050
8100
8150
8200
flor, flash cut, lt Yl rng
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull,sub blky, CHRT: 40% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
TOOH @ 8,047' MD for new Bit
SD: 8064.00
Inc: 91.55
Azi: 353.59
TVD: 4768.85
VS: 3681.50
LS: 60% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull,sub blky, CHRT: 40% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
SD: 8128.00
Inc: 91.27
Azi: 352.80
TVD: 4767.28
VS: 3745.42
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull,sub blky, CHRT: 30% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull,sub blky, CHRT: 30% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
SD: 8191.00
Inc: 91.46
Azi: 352.19
TVD: 4765.78
VS: 3808.31
LS: 70% Crm-off Wh, lt Gy, frm, f xln, sft-frm, arg, dull,sub blky, CHRT: 30% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
CG 335 u.
TRIP GAS 222 u.
CG 92 u.
CG 71 u.
NOTICE SCALE CHANGE 0-1000 TO 0-150
Scale Change C1-NC4
0
150


8250
8300
8350
8400
LS: 90% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
LS: 90% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
SD: 8285.00
Inc: 91.23
Azi: 352.82
TVD: 4763.57
VS: 3902.13
CONN
LS: 90% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
CG 109 u.
MW IN 27/8.5 OUT 28/8.5
WOB 17.4
RPM 70
SPM 84
PP 2475
LS: 90% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
Depth8,340
MW ppg8.4
FVis seg/qt27
PV cP120º1
YP lb/100'1
Gels St1/1
Gel 30min
API fil60
Cake2
Water %99.5%
Sol %Vol0.5%
MBT
PH8
Mud Alk
Fil Alk
Chorides700
Hardness120
LS: 80% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 20% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
MW IN 27/8.5 OUT 27/8.6
SD: 8380.00
Inc: 91.04
Azi: 353.90
TVD: 4761.69
VS: 3997.03
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (A
CONN
150
LS: 80% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 20% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
0
CG 76 u.
C1-NC4
150
MW IN 27/8.5 OUT 28/8.6
LS: 80% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 20% Wht, hrd, blky, lt Yel flor,


flash cut, lt Yl rng
8450
WOB 18.9
RPM 73
SPM 83
PP 2596
LS: 90% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
SD: 8476.00
Inc: 91.42
Azi: 353.91
TVD: 4759.63
VS: 4092.97
8500
LS: 90% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
CONN
CG 77 u.
8550
LS: 90% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
SD: 8570.00
Inc: 91.51
Azi: 353.15
TVD: 4757.23
VS: 4186.87
8600
0
Jennifer 3408 3-34H (min/ft)
5
Gamma (API)
150
0
C1-NC4
150
CONN
CG 91 u.
LS: 90% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
WOB 19.8
RPM 51
SPM 79
PP 2315
8650
LS: 90% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng


MW IN 27/8.5 OUT
27/8.6
CONN
0
Jennifer 3408 3-34H (min/ft)
5
Gamma (API)
150
CONN
WOB 19.5
RPM 52
SPM 85
PP 2664
MW IN 27/8.6 OUT
28/8.6
8700
8750
8800
8850
SD: 8665.00
Inc: 91.39
Azi: 354.06
TVD: 4754.82
VS: 4281.77
LS: 95% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 5% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
LS: 95% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 5% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
LS: 90% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
SD: 8760.00
Inc: 91.05
Azi: 352.61
TVD: 4752.80
VS: 4376.67
LS: 90% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
LS: 90% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
LS: 90% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 10% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
SD: 8855.00
Inc: 91.27
Azi: 352.02
TVD: 4750.88
VS: 4471.48
CG 117 u.
0
C1-NC4
150
CG 63 u.


CONN
MW IN 30/8.6 OUT 30/8.7
MW IN 29/8.6 OUT 29/8.7
WOB 22.8
RPM 32
SPM 83
PP 2672
CONN
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
CONN
8900
8950
9000
9050
LS: 70% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 30% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
LS: 60% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 40% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
LS: 60% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 40% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
SD: 8950.00
Inc: 91.04
Azi: 352.12
TVD: 4748.96
VS: 4566.27
LS: 60% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 40% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
LS: 60% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 40% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
SD: 9044.00
Inc: 90.89
Azi: 351.30
TVD: 4747.38
VS: 4660.03
LS: 60% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 40% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
SD: 9066.00
Inc: 90.83
Azi: 350.99
TVD: 4747.05
VS: 4681.96
CG 59 u.
CG 88 u.
0
C1-NC4
150
CG 70 u.


LS: 60% Crm-off Wh, lt Gy, frm, mic xln,dull,sub blky, arg CHRT: 40% Wht, hrd, blky, lt Yel flor, flash cut, lt Yl rng
TD @ 9,109' MD ON 12/15/2012 @ 21:46 HRS.
9100
9150
9200
9250
0
Jennifer 3408 3-34H (min/ft)
5
0
Gamma (API)
150
0
C1-NC4
150