COLUMBINE LOGGING, INC.

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

Well Name:	HIAWATHA STATE # 2-36		
Well Id:			
Location:	SE SW SEC 36, T12N, R101W		
License Number:		Region:	MOFFAT CO, CO
Spud Date:	10/11/2006	Drilling Completed:	
Surface Coordinates:			
Bottom Hole Coordinates:			
Ground Elevation (ft):	6906'	K.B. Elevation (ft):	6922'
Logged Interval (ft):	2000' To: 6000'	Total Depth (ft):	4000'
Formation:	WASATCH, FORT UNION, LEWIS, ALMOND		
Type of Drilling Fluid:	WATER SYSTEMS		

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OPERATOR

Company: GADECO
Address:

GEOLOGIST

Name: LUIS LORA
Company: COLUMBINE LOGGING
Address: 9985 A EAST 104TH AVE.
HENDERSON, CO 80640

Cores

DSTs

Comments

ROCK TYPES

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

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

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

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOW

- Even
- Spotted
- Ques
- Dead

INTERVAL

- Core
- Dst

EVENT

- Rft
- Sidewall

Curve Track 1	Depth	Porosity Type	Porosity	Lithology	Geological Descriptions	TG, C1-C5
ROP (min/ft)						TG (Units)
						C1 (units)
						C2 (units)
						C3 (units)
						C4 (units)
						C5 (units)
0 ROP (min/ft) 25	19		24% 18% 12% 6%		GADECO (GRYNBERG PETROLEUM CO.)	1 TG, C1-C5 1000
					GREYWOLF RIG # 805	
					COLUMBINE LOGGING ONE MAN UNIT OPERATIONAL 10-10-2006	SHAKER ONLINE
						DRILLING WITH

DRILLING WITH CLEAR WATER SYSTEM

Scale Change
0 ROP SCALE 0 - 5 5
MIN/FT

2000

SH; gry, lt gry, frm, sbplty, s blky, sli brit, s fiss, vy sdy, chrt, occ carb, occ mica, non calc.

BIT # 1
HYCALOG
DSX199 PDC

Scale Change
TG, C1-C5 1000

SD STRNGRS; clr, mlky, buff, s amber, hd, vf-fg, sbrnd-sbang, p srt, f por, uncon, mica, tr pyr.

conn

SH; gry, lt gry, frm, sbplty, s brit, s fiss, abndnt sd, s chrt, occ coal, tr pyr, fe ox.

conn

2050

SH; gry, lt gry, frm, sbplty, s brit, s fiss, arg, sli dol, abndnt sd, s chrt, occ coal, tr pyr, fe ox.

WITS INPUT NOT ONLINE; DATA TRANSFERED BY HAND FROM HISTORICAL

conn

SH; gry, lt gry, frm, sbplty, s brit, s fiss, abndnt sd, slislty-grty, s chrt, tr pyr, tr fe ox, mica, occ coal; sub vit.

BACKGROUND GAS 15-25 UNITS.

2100

conn

SH; gry, lt gry, frm, sbplty, s brit, s fiss, abndnt sd, dol, sli slty-grty, s chrt, tr pyr, fe ox, mica, s coal; sub vit.

SD STRNGRS; clr, mlky, smky, s pnk, amber, hd, sbrnd-sbang, p srt, uncon.

conn

2150

SH; gry, lt gry, frm, sbplty, s sbblky, slislty-grty, arg, chrt, dol, pyr, occ coal; sub vit, vy sdy.

conn

SH; gry, lt gry, s carb-blk, sbplty, s brit-splnty, frm, sdy, sli slty-grty, chrt, occ pyr, occ mica.

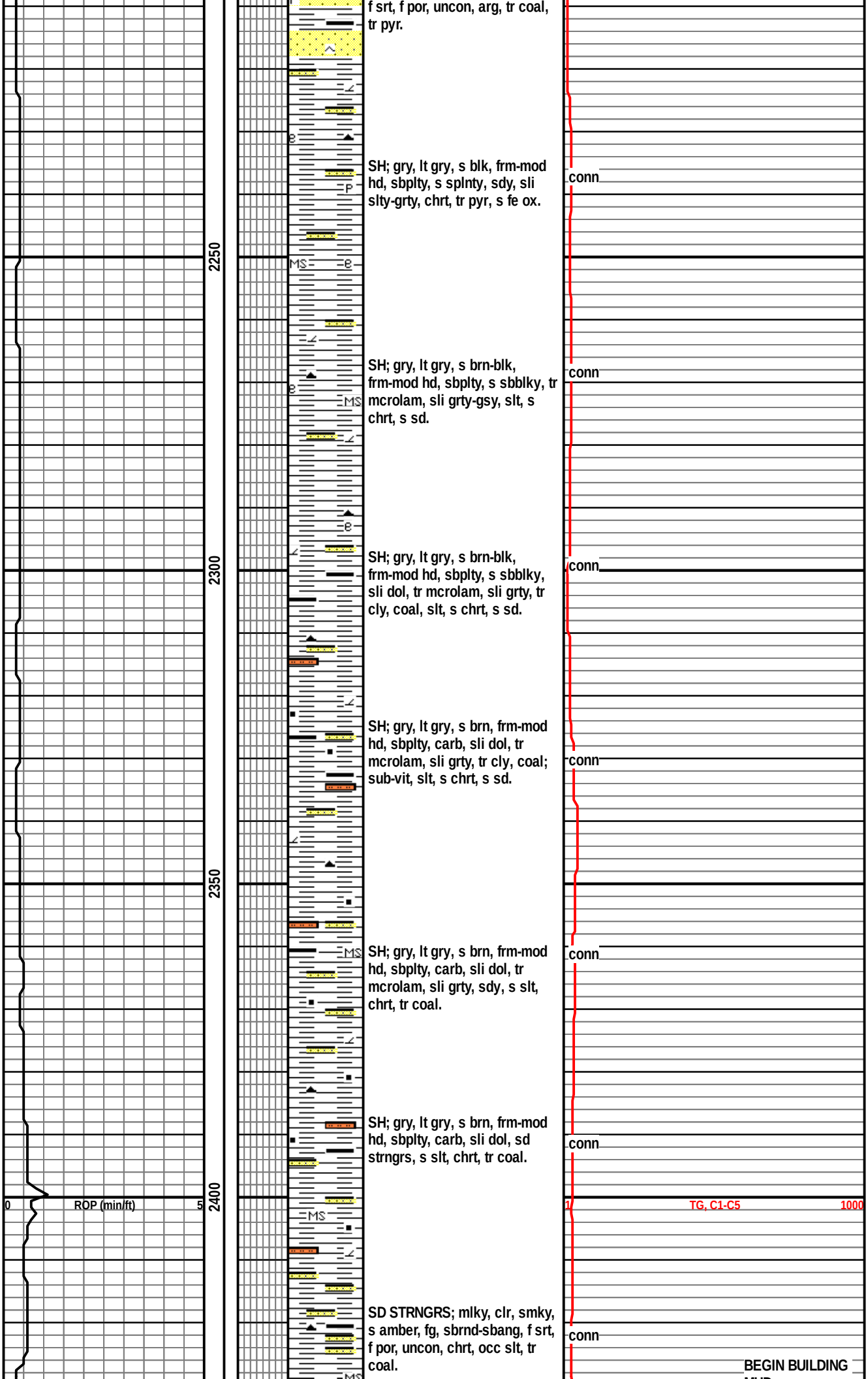
2200

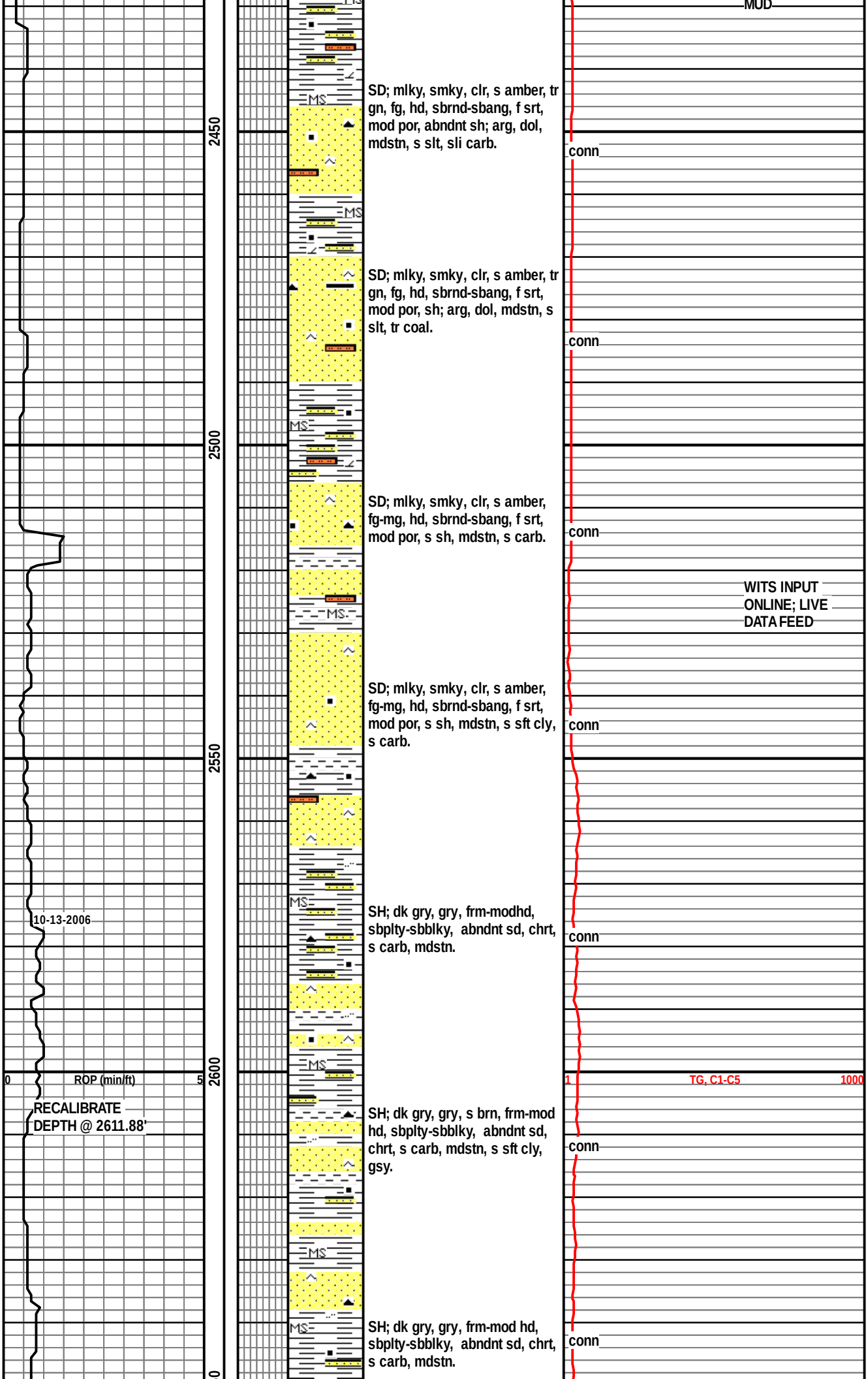
0 ROP (min/ft) 5

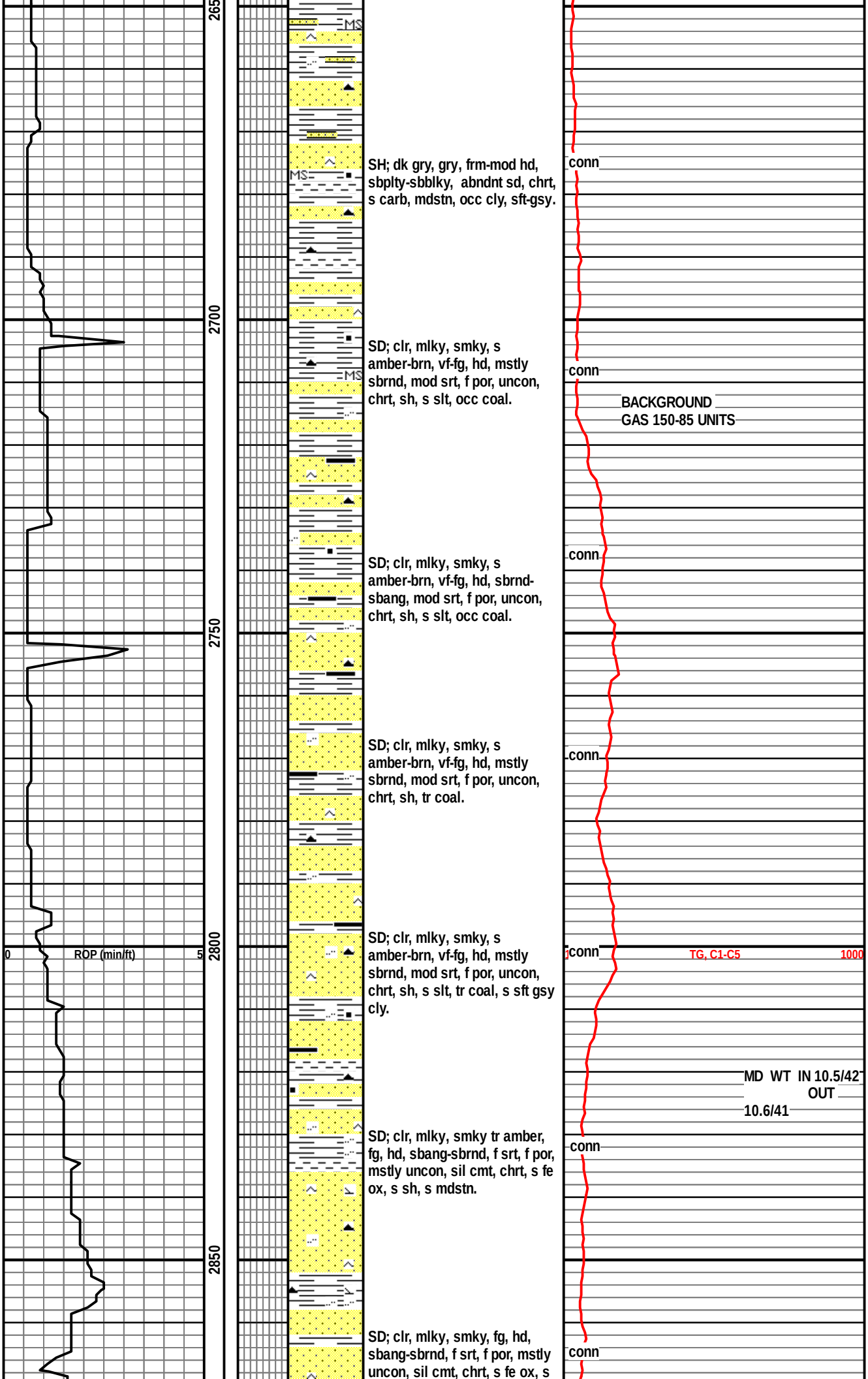
TG, C1-C5 1000

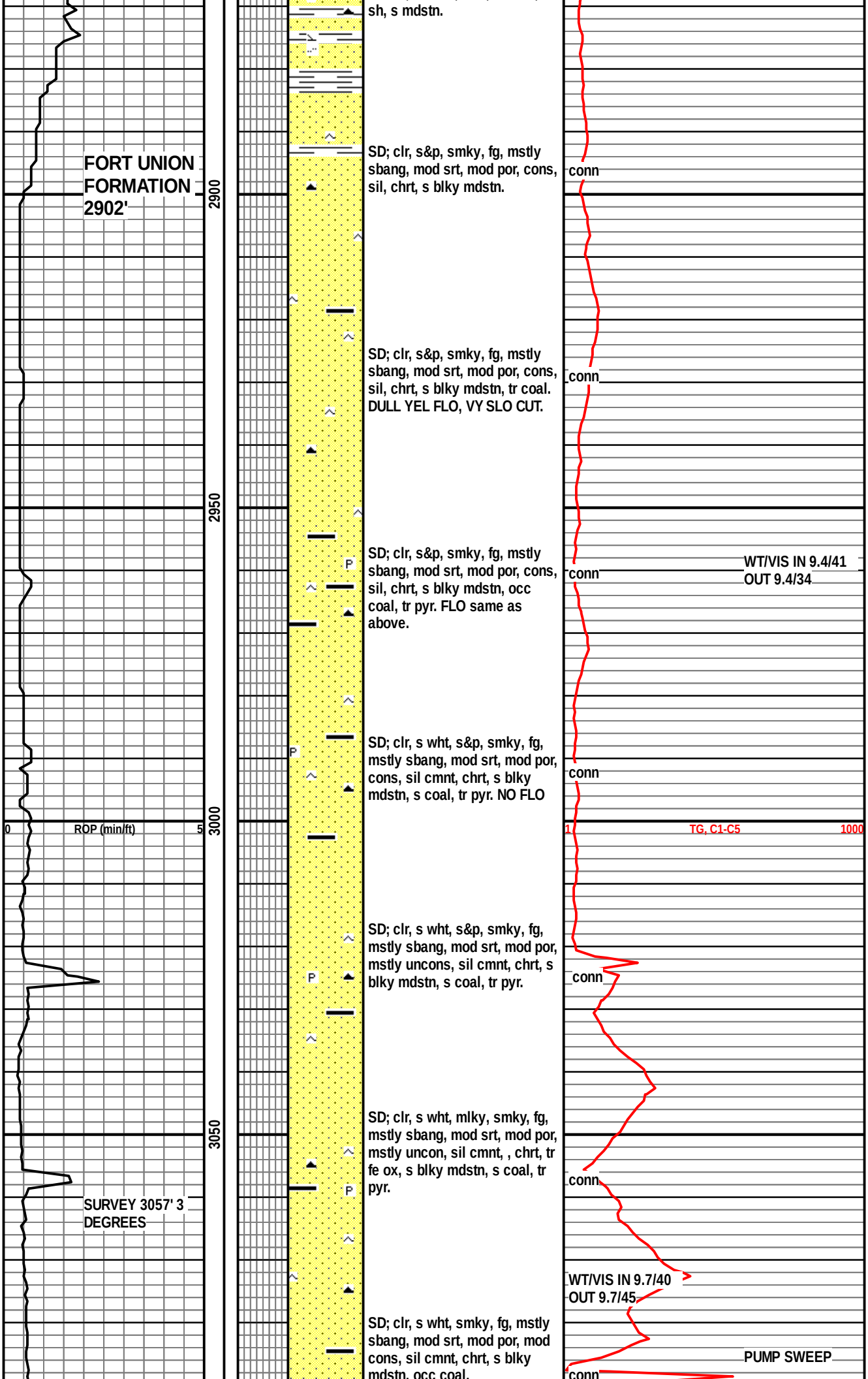
SD STRNGRS; mlky, clr, s amber, tr pnk, hd, mstly sbrnd,

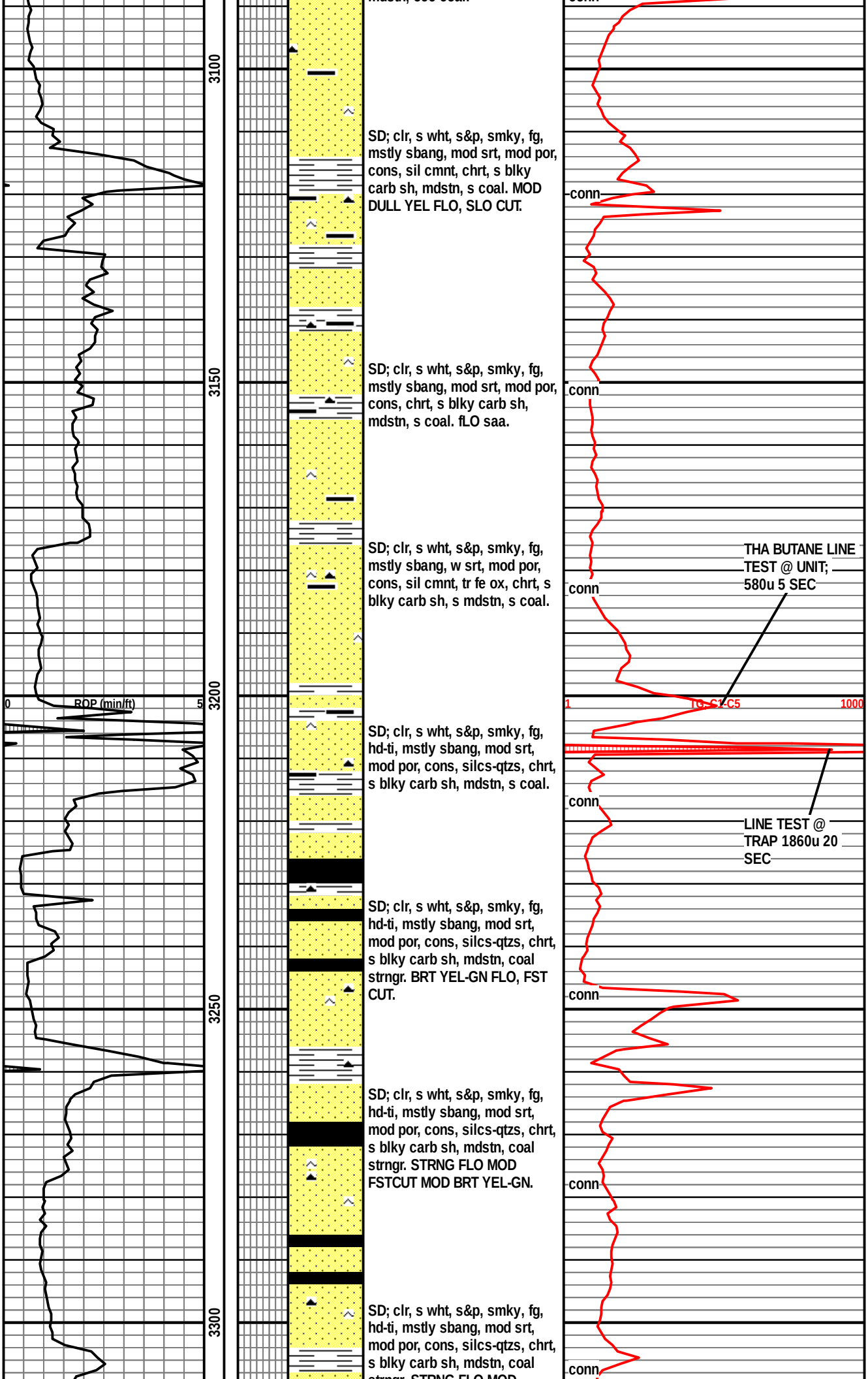
conn

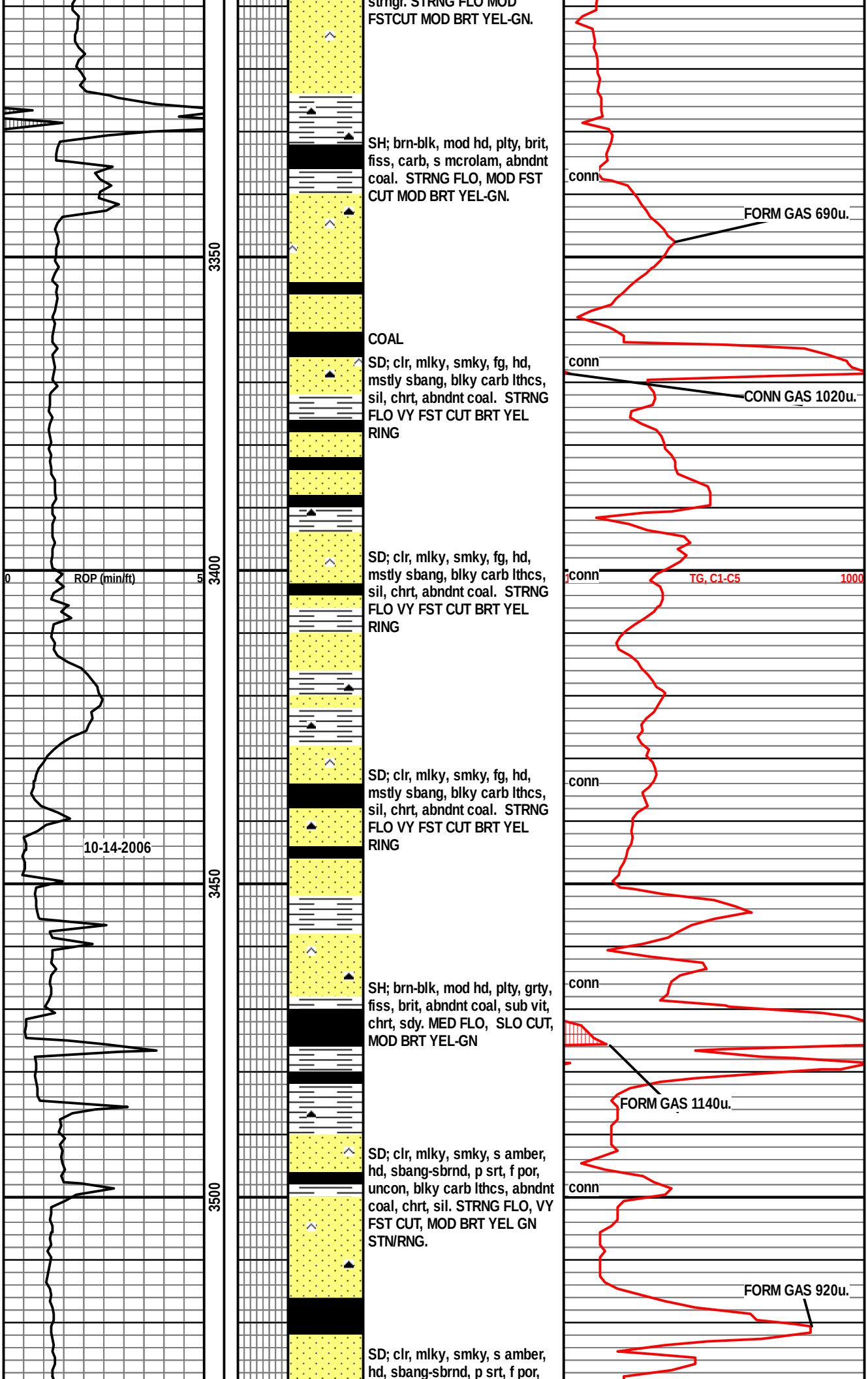

f srt, f por, uncon, arg, tr coal, tr pyr.
SH; gry, lt gry, s blk, frm-mod hd, sbplty, s splnty, sdy, sli slty-grty, chrt, tr pyr, s fe ox.
SH; gry, lt gry, s brn-blk, frm-mod hd, sbplty, s sbblky, tr mcrolam, sli grty-gsy, slt, s chrt, s sd.
SH; gry, lt gry, s brn-blk, frm-mod hd, sbplty, s sbblky, sli dol, tr mcrolam, sli grty, tr cly, coal, slt, s chrt, s sd.
SH; gry, lt gry, s brn, frm-mod hd, sbplty, carb, sli dol, tr mcrolam, sli grty, tr cly, coal; sub-vit, slt, s chrt, s sd.
SH; gry, lt gry, s brn, frm-mod hd, sbplty, carb, sli dol, tr mcrolam, sli grty, sdy, s slt, chrt, tr coal.
SH; gry, lt gry, s brn, frm-mod hd, sbplty, carb, sli dol, sd strngrs, s slt, chrt, tr coal.
SD STRNGRS; mlky, clr, smky, s amber, fg, sbrnd-sbang, f srt, f por, uncon, chrt, occ slt, tr coal.
2250
2300
2350
2400
0
ROP (min/ft)
5
1
TG, C1-C5
1000
conn
BEGIN BUILDING

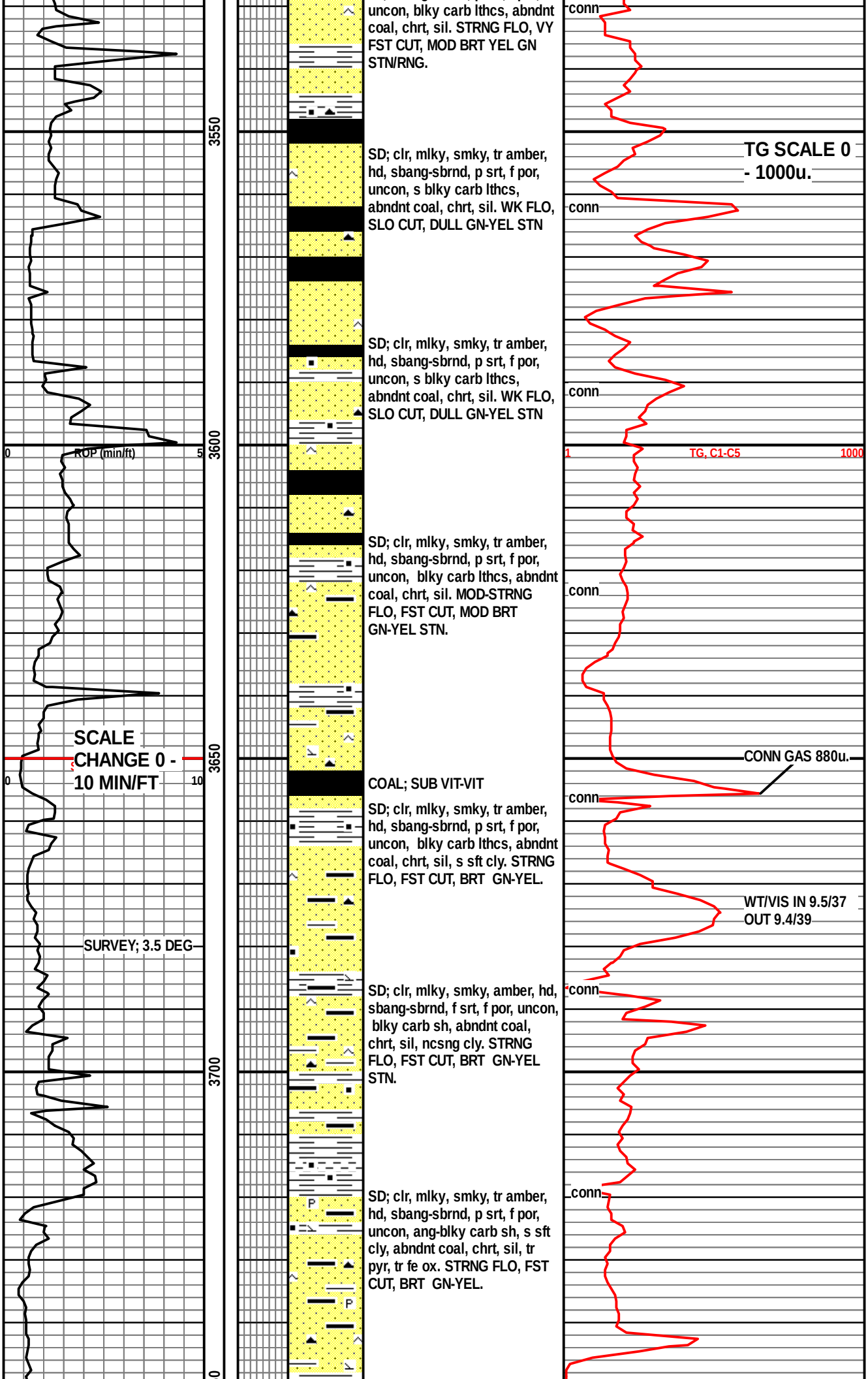

MUD
2450
SD; mlky, smky, clr, s amber, tr gn, fg, hd, sbrnd-sbang, f srt, mod por, abndnt sh; arg, dol, mdstn, s slt, sli carb.
conn
SD; mlky, smky, clr, s amber, tr gn, fg, hd, sbrnd-sbang, f srt, mod por, sh; arg, dol, mdstn, s slt, tr coal.
conn
2500
SD; mlky, smky, clr, s amber, fg-mg, hd, sbrnd-sbang, f srt, mod por, s sh, mdstn, s carb.
conn
WITS INPUT ONLINE; LIVE DATA FEED
SD; mlky, smky, clr, s amber, fg-mg, hd, sbrnd-sbang, f srt, mod por, s sh, mdstn, s sft cly, s carb.
conn
2550
10-13-2006
SH; dk gry, gry, frm-modhd, sbplty-sbblky, abndnt sd, chrt, s carb, mdstn.
conn
0
ROP (min/ft)
5
1
TG, C1-C5
1000
2600
RECALIBRATE DEPTH @ 2611.88'
SH; dk gry, gry, s brn, frm-mod hd, sbplty-sbblky, abndnt sd, chrt, s carb, mdstn, s sft cly, gsy.
conn
SH; dk gry, gry, frm-mod hd, sbplty-sbblky, abndnt sd, chrt, s carb, mdstn.
conn

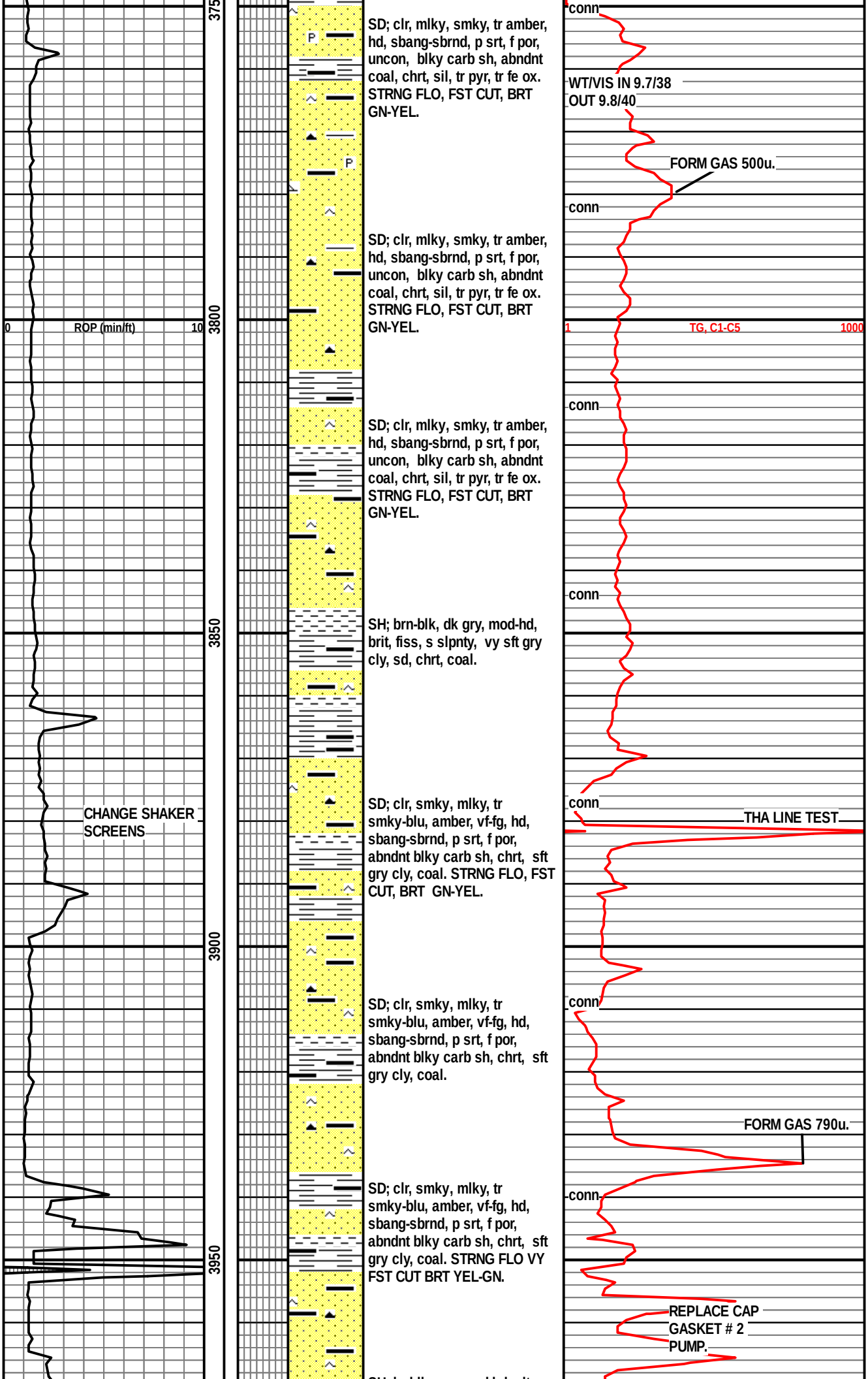

2650
2700
2750
2800
2850
0
ROP (min/ft)
5
MS
SH; dk gry, gry, frm-mod hd, sbplty-sbblky, abndnt sd, chrt, s carb, mdstn, occ cly, sft-gsy.
SD; clr, mlky, smky, s amber-brn, vf-fg, hd, mstly sbrnd, mod srt, f por, uncon, chrt, sh, s slt, occ coal.
SD; clr, mlky, smky, s amber-brn, vf-fg, hd, sbrnd-sbang, mod srt, f por, uncon, chrt, sh, s slt, occ coal.
SD; clr, mlky, smky, s amber-brn, vf-fg, hd, mstly sbrnd, mod srt, f por, uncon, chrt, sh, tr coal.
SD; clr, mlky, smky, s amber-brn, vf-fg, hd, mstly sbrnd, mod srt, f por, uncon, chrt, sh, s slt, tr coal, s sft gsy cly.
SD; clr, mlky, smky tr amber, fg, hd, sbang-sbrnd, f srt, f por, mstly uncon, sil cmt, chrt, s fe ox, s sh, s mdstn.
SD; clr, mlky, smky, fg, hd, sbang-sbrnd, f srt, f por, mstly uncon, sil cmt, chrt, s fe ox, s
conn
BACKGROUND
GAS 150-85 UNITS
TG, C1-C5
1000
MD WT IN 10.5/42
OUT
10.6/41

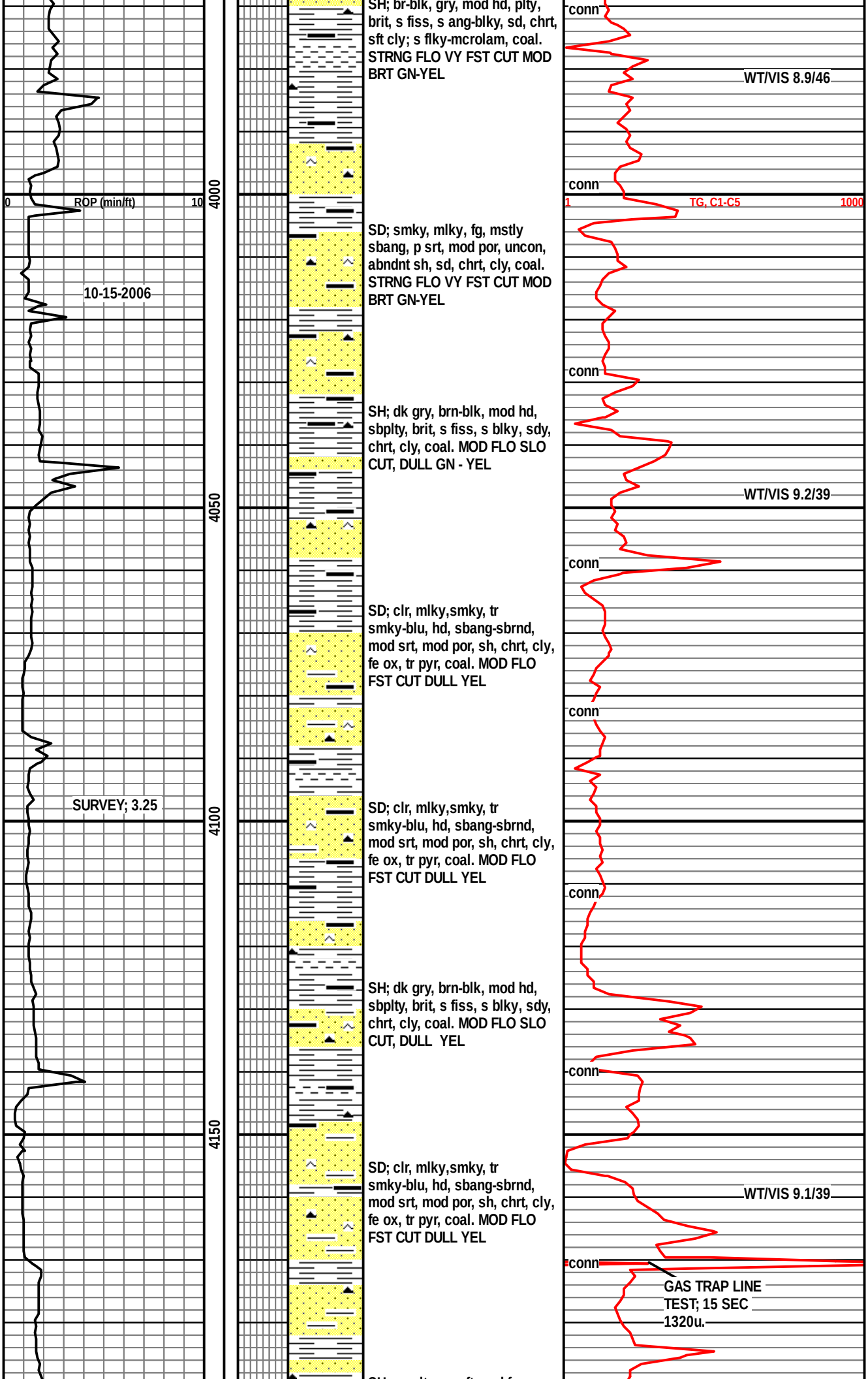

sh, s mdstn.
FORT UNION FORMATION 2902'
2900
SD; clr, s&p, smky, fg, mstly sbang, mod srt, mod por, cons, sil, chrt, s blky mdstn.
conn
SD; clr, s&p, smky, fg, mstly sbang, mod srt, mod por, cons, sil, chrt, s blky mdstn, tr coal. DULL YEL FLO, VY SLO CUT.
conn
2950
SD; clr, s&p, smky, fg, mstly sbang, mod srt, mod por, cons, sil, chrt, s blky mdstn, occ coal, tr pyr. FLO same as above.
conn
WT/VIS IN 9.4/41
OUT 9.4/34
SD; clr, s wht, s&p, smky, fg, mstly sbang, mod srt, mod por, cons, sil cmnt, chrt, s blky mdstn, s coal, tr pyr. NO FLO
conn
3000
0
ROP (min/ft)
5
1
TG, C1-C5
1000
SD; clr, s wht, s&p, smky, fg, mstly sbang, mod srt, mod por, mstly uncons, sil cmnt, chrt, s blky mdstn, s coal, tr pyr.
conn
3050
SD; clr, s wht, mlky, smky, fg, mstly sbang, mod srt, mod por, mstly uncon, sil cmnt, , chrt, tr fe ox, s blky mdstn, s coal, tr pyr.
conn
SURVEY 3057' 3 DEGREES
WT/VIS IN 9.7/40
OUT 9.7/45
SD; clr, s wht, smky, fg, mstly sbang, mod srt, mod por, mod cons, sil cmnt, chrt, s blky mdstn, occ coal,
PUMP SWEEP
conn

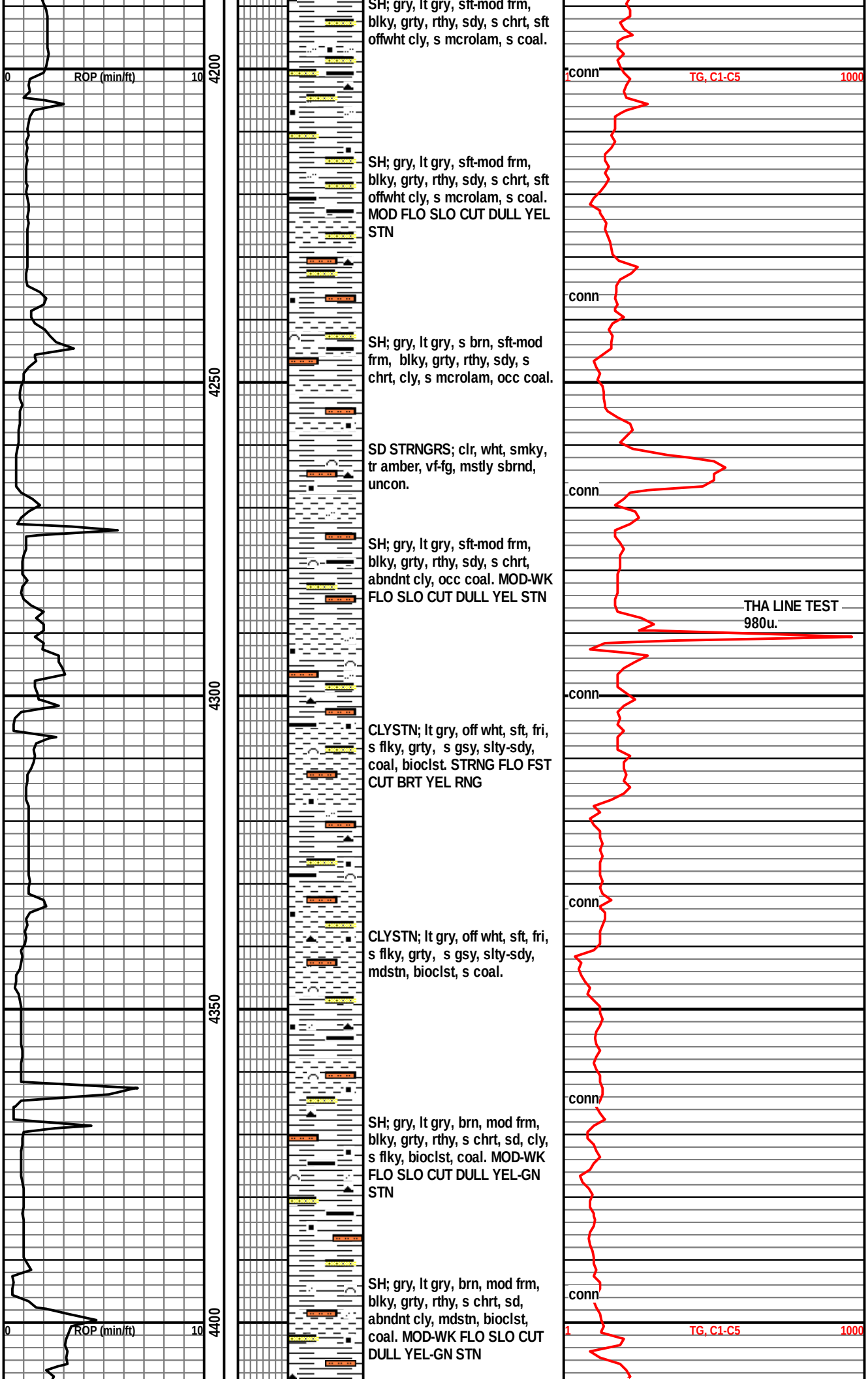

3100
3150
3200
3250
3300
0
ROP (min/ft)
5
SD; clr, s wht, s&p, smky, fg, mstly sbang, mod srt, mod por, cons, sil cmnt, chrt, s blky carb sh, mdstn, s coal. MOD DULL YEL FLO, SLO CUT.
SD; clr, s wht, s&p, smky, fg, mstly sbang, mod srt, mod por, cons, chrt, s blky carb sh, mdstn, s coal. fLO saa.
SD; clr, s wht, s&p, smky, fg, mstly sbang, w srt, mod por, cons, sil cmnt, tr fe ox, chrt, s blky carb sh, s mdstn, s coal.
SD; clr, s wht, s&p, smky, fg, hd-ti, mstly sbang, mod srt, mod por, cons, silcs-qtzs, chrt, s blky carb sh, mdstn, s coal.
SD; clr, s wht, s&p, smky, fg, hd-ti, mstly sbang, mod srt, mod por, cons, silcs-qtzs, chrt, s blky carb sh, mdstn, coal strngr. BRT YEL-GN FLO, FST CUT.
SD; clr, s wht, s&p, smky, fg, hd-ti, mstly sbang, mod srt, mod por, cons, silcs-qtzs, chrt, s blky carb sh, mdstn, coal strngr. STRNG FLO MOD FSTCUT MOD BRT YEL-GN.
SD; clr, s wht, s&p, smky, fg, hd-ti, mstly sbang, mod srt, mod por, cons, silcs-qtzs, chrt, s blky carb sh, mdstn, coal
conn
THA BUTANE LINE TEST @ UNIT; 580u 5 SEC
1
TG-C1-C5
1000
LINE TEST @ TRAP 1860u 20 SEC

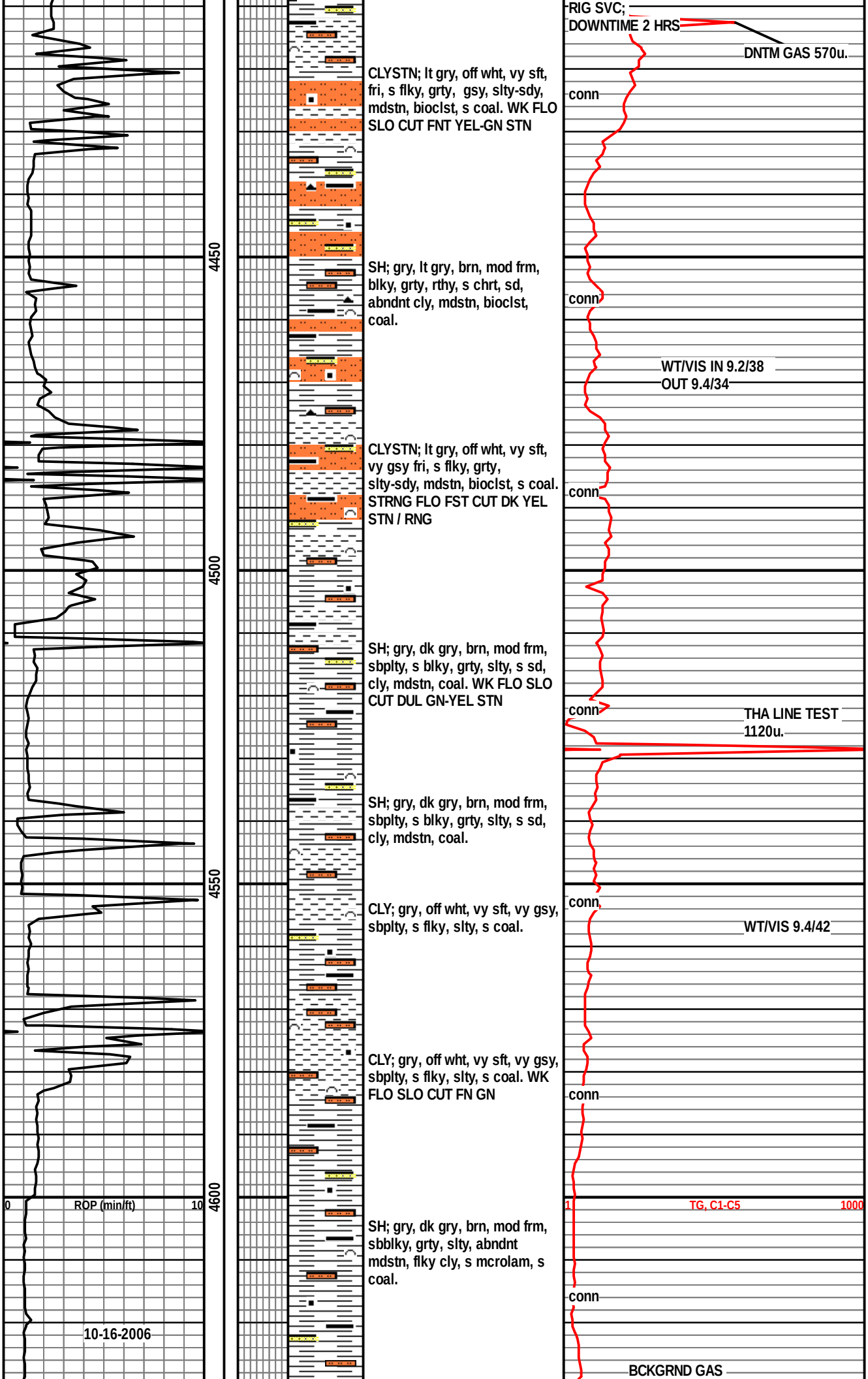

strngr. STRNG FLO MOD FSTCUT MOD BRT YEL-GN.
SH; brn-blk, mod hd, plty, brit, fiss, carb, s mcrolam, abndnt coal. STRNG FLO, MOD FST CUT MOD BRT YEL-GN.
COAL
SD; clr, mlky, smky, fg, hd, mstly sbang, blky carb lthcs, sil, chrt, abndnt coal. STRNG FLO VY FST CUT BRT YEL RING
SD; clr, mlky, smky, fg, hd, mstly sbang, blky carb lthcs, sil, chrt, abndnt coal. STRNG FLO VY FST CUT BRT YEL RING
SD; clr, mlky, smky, fg, hd, mstly sbang, blky carb lthcs, sil, chrt, abndnt coal. STRNG FLO VY FST CUT BRT YEL RING
SH; brn-blk, mod hd, plty, grty, fiss, brit, abndnt coal, sub vit, chrt, sdy. MED FLO, SLO CUT, MOD BRT YEL-GN
SD; clr, mlky, smky, s amber, hd, sbang-sbrnd, p srt, f por, uncon, blky carb lthcs, abndnt coal, chrt, sil. STRNG FLO, VY FST CUT, MOD BRT YEL GN STN/RNG.
SD; clr, mlky, smky, s amber, hd, sbang-sbrnd, p srt, f por,
3350
3400
3450
3500
0
ROP (min/ft)
5
10-14-2006
conn
FORM GAS 690u.
CONN GAS 1020u.
TG, C1-C5
1000
FORM GAS 1140u.
FORM GAS 920u.

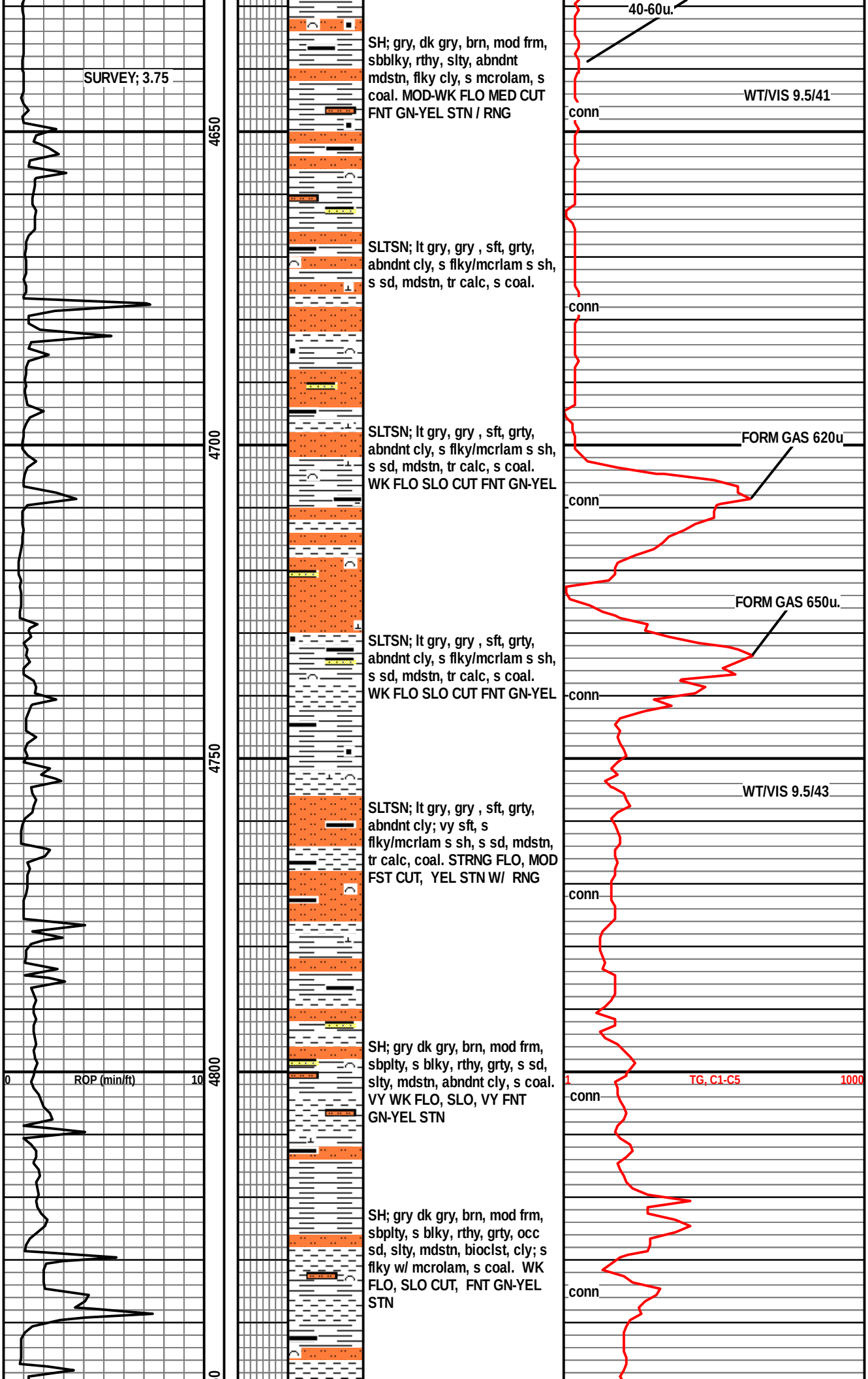

uncon, blky carb lthcs, abndnt coal, chrt, sil. STRNG FLO, VY FST CUT, MOD BRT YEL GN STN/RNG.
SD; clr, mlky, smky, tr amber, hd, sbang-sbrnd, p srt, f por, uncon, s blky carb lthcs, abndnt coal, chrt, sil. WK FLO, SLO CUT, DULL GN-YEL STN
SD; clr, mlky, smky, tr amber, hd, sbang-sbrnd, p srt, f por, uncon, s blky carb lthcs, abndnt coal, chrt, sil. WK FLO, SLO CUT, DULL GN-YEL STN
SD; clr, mlky, smky, tr amber, hd, sbang-sbrnd, p srt, f por, uncon, blky carb lthcs, abndnt coal, chrt, sil. MOD-STRNG FLO, FST CUT, MOD BRT GN-YEL STN.
COAL; SUB VIT-VIT
SD; clr, mlky, smky, tr amber, hd, sbang-sbrnd, p srt, f por, uncon, blky carb lthcs, abndnt coal, chrt, sil, s sft cly. STRNG FLO, FST CUT, BRT GN-YEL.
SD; clr, mlky, smky, amber, hd, sbang-sbrnd, f srt, f por, uncon, blky carb sh, abndnt coal, chrt, sil, ncsng cly. STRNG FLO, FST CUT, BRT GN-YEL STN.
SD; clr, mlky, smky, tr amber, hd, sbang-sbrnd, p srt, f por, uncon, ang-blky carb sh, s sft cly, abndnt coal, chrt, sil, tr pyr, tr fe ox. STRNG FLO, FST CUT, BRT GN-YEL.
3550
3600
3650
3700
0
ROP (min/ft)
5
SCALE CHANGE 0 - 10 MIN/FT
0
10
SURVEY; 3.5 DEG
TG SCALE 0 - 1000u.
1
TG, C1-C5
1000
conn
CONN GAS 880u.
WT/VIS IN 9.5/37 OUT 9.4/39

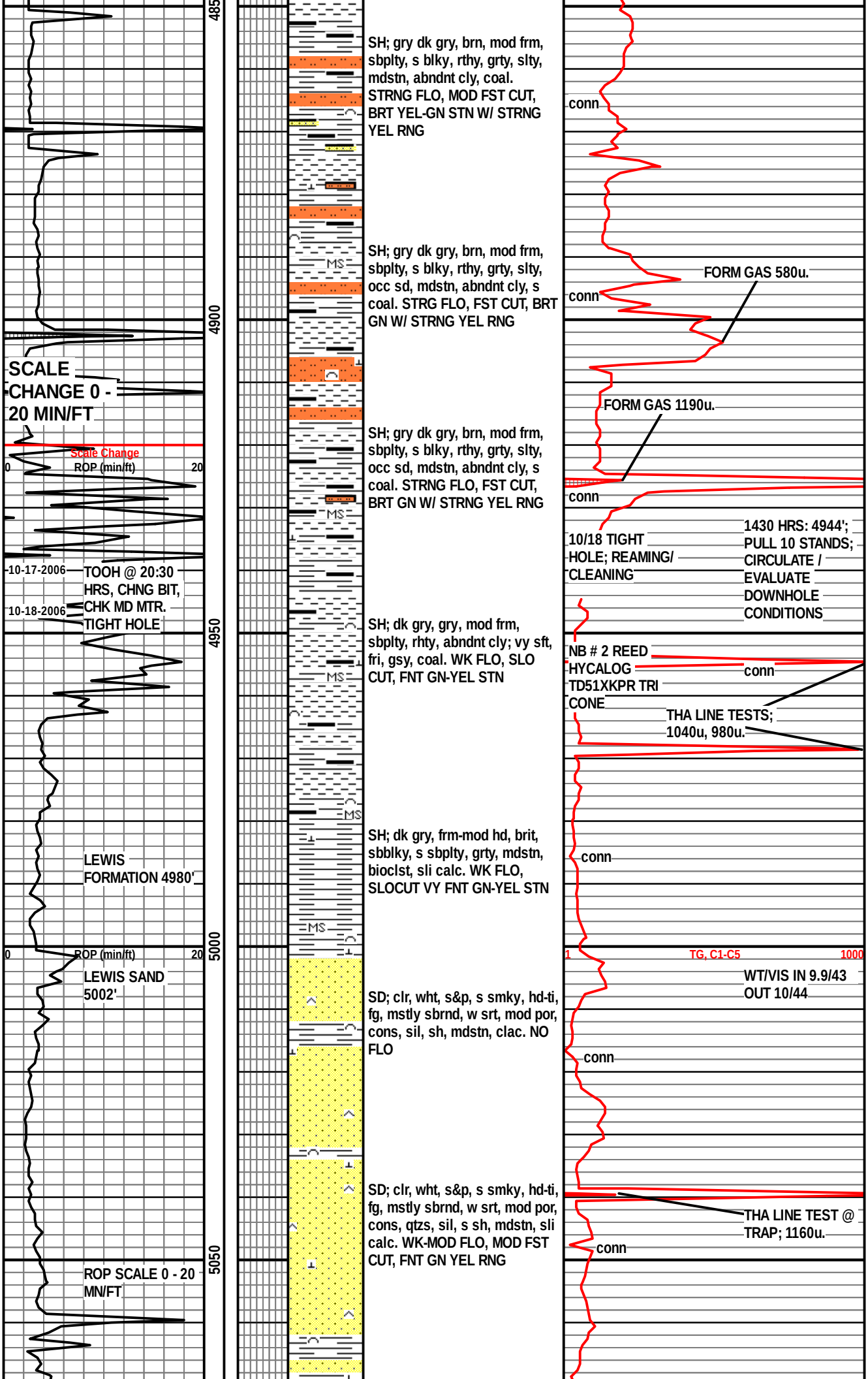

3750
3800
3850
3900
3950
0
ROP (min/ft)
10
CHANGE SHAKER SCREENS
SD; clr, mlky, smky, tr amber, hd, sbang-sbrnd, p srt, f por, uncon, blky carb sh, abndnt coal, chrt, sil, tr pyr, tr fe ox. STRNG FLO, FST CUT, BRT GN-YEL.
SD; clr, mlky, smky, tr amber, hd, sbang-sbrnd, p srt, f por, uncon, blky carb sh, abndnt coal, chrt, sil, tr pyr, tr fe ox. STRNG FLO, FST CUT, BRT GN-YEL.
SD; clr, mlky, smky, tr amber, hd, sbang-sbrnd, p srt, f por, uncon, blky carb sh, abndnt coal, chrt, sil, tr pyr, tr fe ox. STRNG FLO, FST CUT, BRT GN-YEL.
SH; brn-blk, dk gry, mod-hd, brit, fiss, s slpnty, vy sft gry cly, sd, chrt, coal.
SD; clr, smky, mlky, tr smky-blu, amber, vf-fg, hd, sbang-sbrnd, p srt, f por, abndnt blky carb sh, chrt, sft gry cly, coal. STRNG FLO, FST CUT, BRT GN-YEL.
SD; clr, smky, mlky, tr smky-blu, amber, vf-fg, hd, sbang-sbrnd, p srt, f por, abndnt blky carb sh, chrt, sft gry cly, coal.
SD; clr, smky, mlky, tr smky-blu, amber, vf-fg, hd, sbang-sbrnd, p srt, f por, abndnt blky carb sh, chrt, sft gry cly, coal. STRNG FLO VY FST CUT BRT YEL-GN.
conn
WT/VIS IN 9.7/38
OUT 9.8/40
FORM GAS 500u.
conn
1
TG, C1-C5
1000
conn
conn
conn
THA LINE TEST
conn
FORM GAS 790u.
conn
REPLACE CAP
GASKET # 2
PUMP.

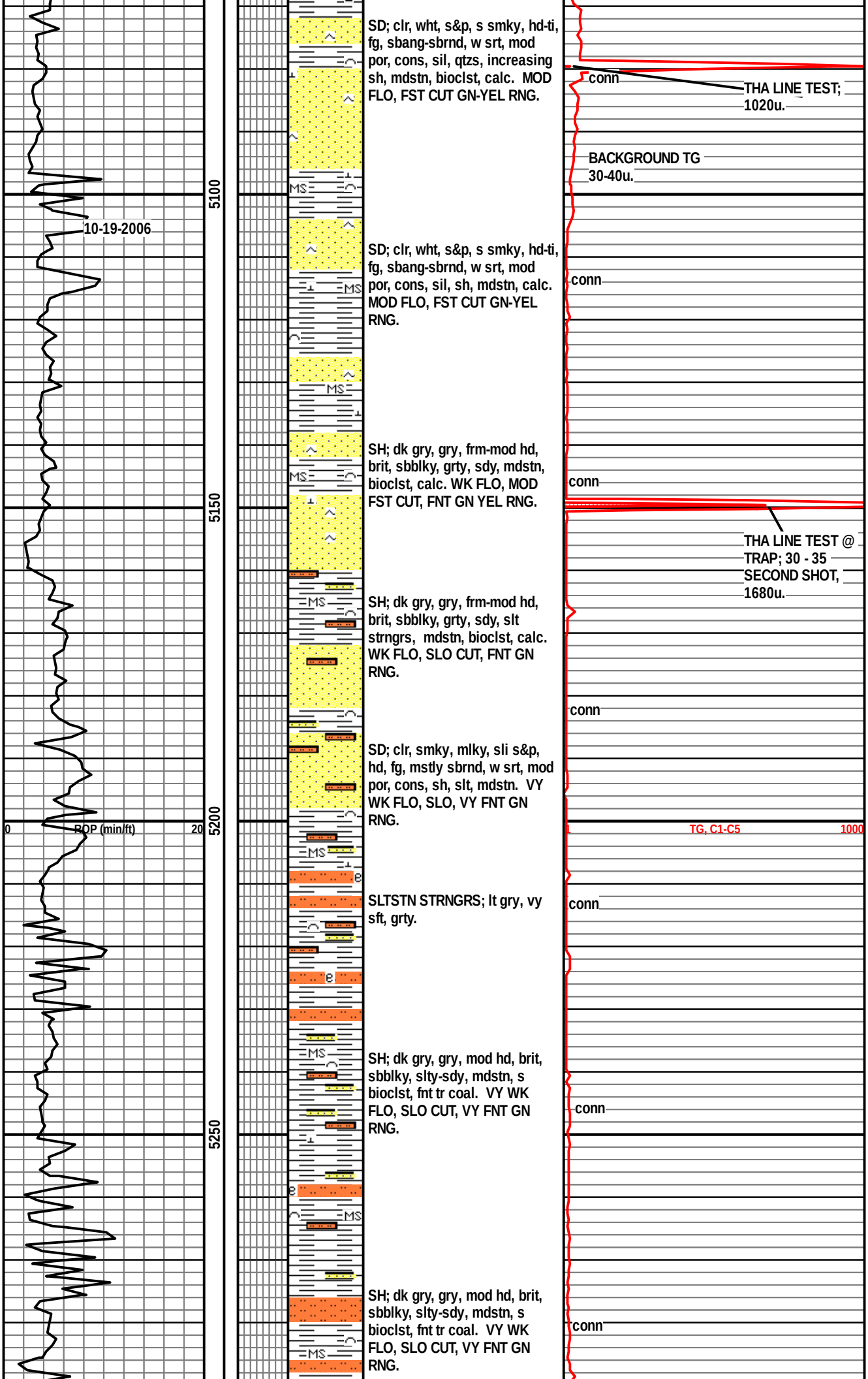

0
ROP (min/ft)
10
4000
4050
4100
4150
10-15-2006
SURVEY; 3.25
SH; br-blk, gry, mod hd, plty, brit, s fiss, s ang-blky, sd, chrt, sft cly; s flky-mcrolam, coal. STRNG FLO VY FST CUT MOD BRT GN-YEL
SD; smky, mlky, fg, mstly sbang, p srt, mod por, uncon, abndnt sh, sd, chrt, cly, coal. STRNG FLO VY FST CUT MOD BRT GN-YEL
SH; dk gry, brn-blk, mod hd, sbplty, brit, s fiss, s blky, sdy, chrt, cly, coal. MOD FLO SLO CUT, DULL GN - YEL
SD; clr, mlky,smky, tr smky-blu, hd, sbang-sbrnd, mod srt, mod por, sh, chrt, cly, fe ox, tr pyr, coal. MOD FLO FST CUT DULL YEL
SD; clr, mlky,smky, tr smky-blu, hd, sbang-sbrnd, mod srt, mod por, sh, chrt, cly, fe ox, tr pyr, coal. MOD FLO FST CUT DULL YEL
SH; dk gry, brn-blk, mod hd, sbplty, brit, s fiss, s blky, sdy, chrt, cly, coal. MOD FLO SLO CUT, DULL YEL
SD; clr, mlky,smky, tr smky-blu, hd, sbang-sbrnd, mod srt, mod por, sh, chrt, cly, fe ox, tr pyr, coal. MOD FLO FST CUT DULL YEL
conn
WT/VIS 8.9/46
conn
1
TG, C1-C5
1000
conn
WT/VIS 9.2/39
conn
conn
conn
conn
WT/VIS 9.1/39
conn
GAS TRAP LINE TEST; 15 SEC 1320u.

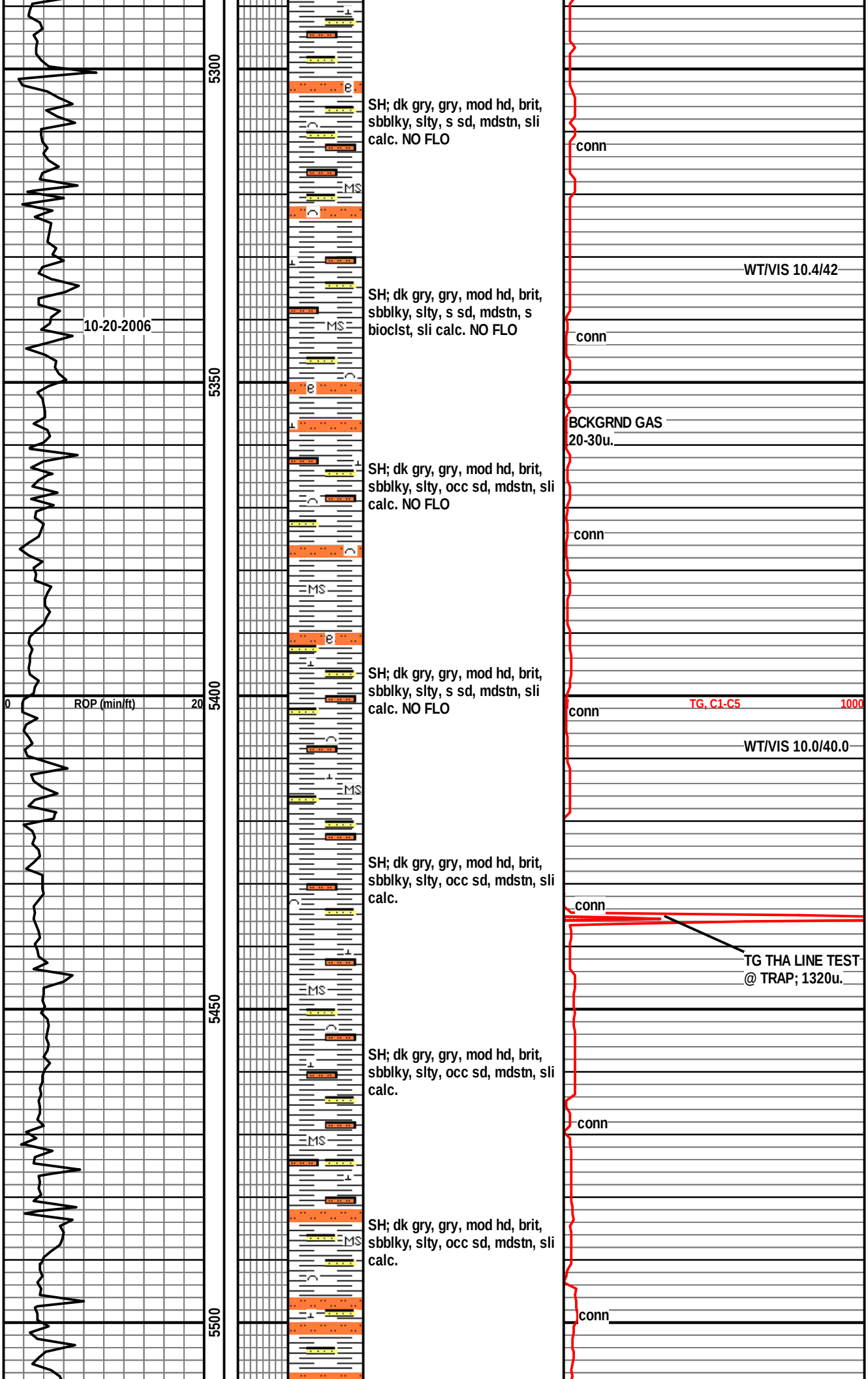

0
ROP (min/ft)
10
4200
4250
4300
4350
4400
SH; gry, lt gry, sft-mod frm, blky, grty, rthy, sdy, s chrt, sft offwht cly, s mcrolam, s coal.
SH; gry, lt gry, sft-mod frm, blky, grty, rthy, sdy, s chrt, sft offwht cly, s mcrolam, s coal. MOD FLO SLO CUT DULL YEL STN
SH; gry, lt gry, s brn, sft-mod frm, blky, grty, rthy, sdy, s chrt, cly, s mcrolam, occ coal.
SD STRNGRS; clr, wht, smky, tr amber, vf-fg, mstly sbrnd, uncon.
SH; gry, lt gry, sft-mod frm, blky, grty, rthy, sdy, s chrt, abndnt cly, occ coal. MOD-WK FLO SLO CUT DULL YEL STN
CLYSTN; lt gry, off wht, sft, fri, s flky, grty, s gsy, slty-sdy, coal, bioclst. STRNG FLO FST CUT BRT YEL RNG
CLYSTN; lt gry, off wht, sft, fri, s flky, grty, s gsy, slty-sdy, mdstn, bioclst, s coal.
SH; gry, lt gry, brn, mod frm, blky, grty, rthy, s chrt, sd, cly, s flky, bioclst, coal. MOD-WK FLO SLO CUT DULL YEL-GN STN
SH; gry, lt gry, brn, mod frm, blky, grty, rthy, s chrt, sd, abndnt cly, mdstn, bioclst, coal. MOD-WK FLO SLO CUT DULL YEL-GN STN
1
TG, C1-C5
1000
conn
THA LINE TEST
980u.

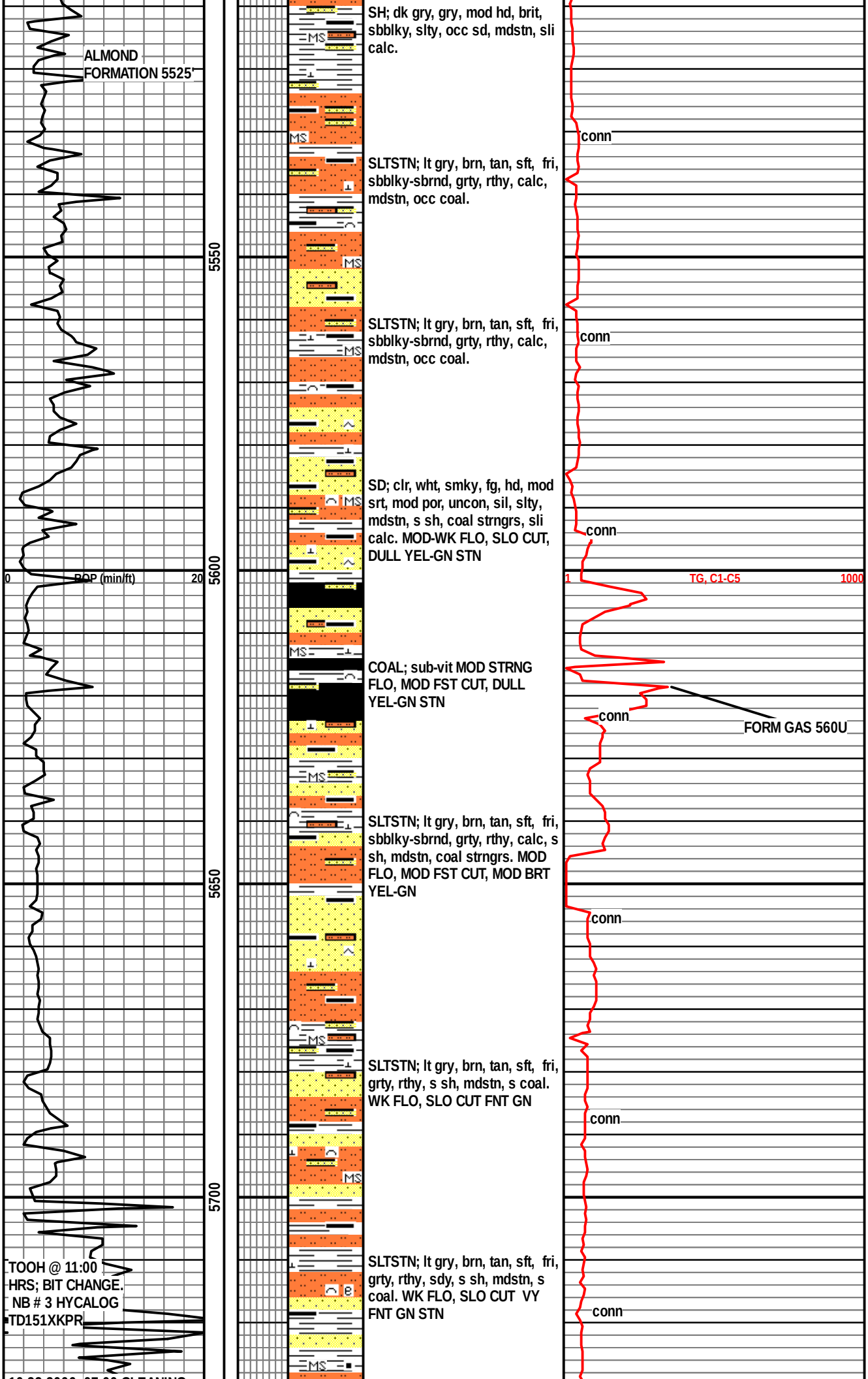

RIG SVC;
DOWNTIME 2 HRS
DNTM GAS 570u.
CLYSTN; lt gry, off wht, vy sft, fri, s flky, grty, gsy, slty-sdy, mdstn, bioclst, s coal. WK FLO SLO CUT FNT YEL-GN STN
conn
4450
SH; gry, lt gry, brn, mod frm, blky, grty, rthy, s chrt, sd, abndnt cly, mdstn, bioclst, coal.
conn
WT/VIS IN 9.2/38
OUT 9.4/34
CLYSTN; lt gry, off wht, vy sft, vy gsy fri, s flky, grty, slty-sdy, mdstn, bioclst, s coal. STRNG FLO FST CUT DK YEL STN / RNG
conn
4500
SH; gry, dk gry, brn, mod frm, sbplty, s blky, grty, slty, s sd, cly, mdstn, coal. WK FLO SLO CUT DUL GN-YEL STN
conn
THA LINE TEST
1120u.
SH; gry, dk gry, brn, mod frm, sbplty, s blky, grty, slty, s sd, cly, mdstn, coal.
4550
CLY; gry, off wht, vy sft, vy gsy, sbplty, s flky, slty, s coal.
conn
WT/VIS 9.4/42
CLY; gry, off wht, vy sft, vy gsy, sbplty, s flky, slty, s coal. WK FLO SLO CUT FN GN
conn
4600
0
ROP (min/ft)
10
1
TG, C1-C5
1000
SH; gry, dk gry, brn, mod frm, sbblky, grty, slty, abndnt mdstn, flky cly, s mcrolam, s coal.
conn
10-16-2006
BCKGRND GAS

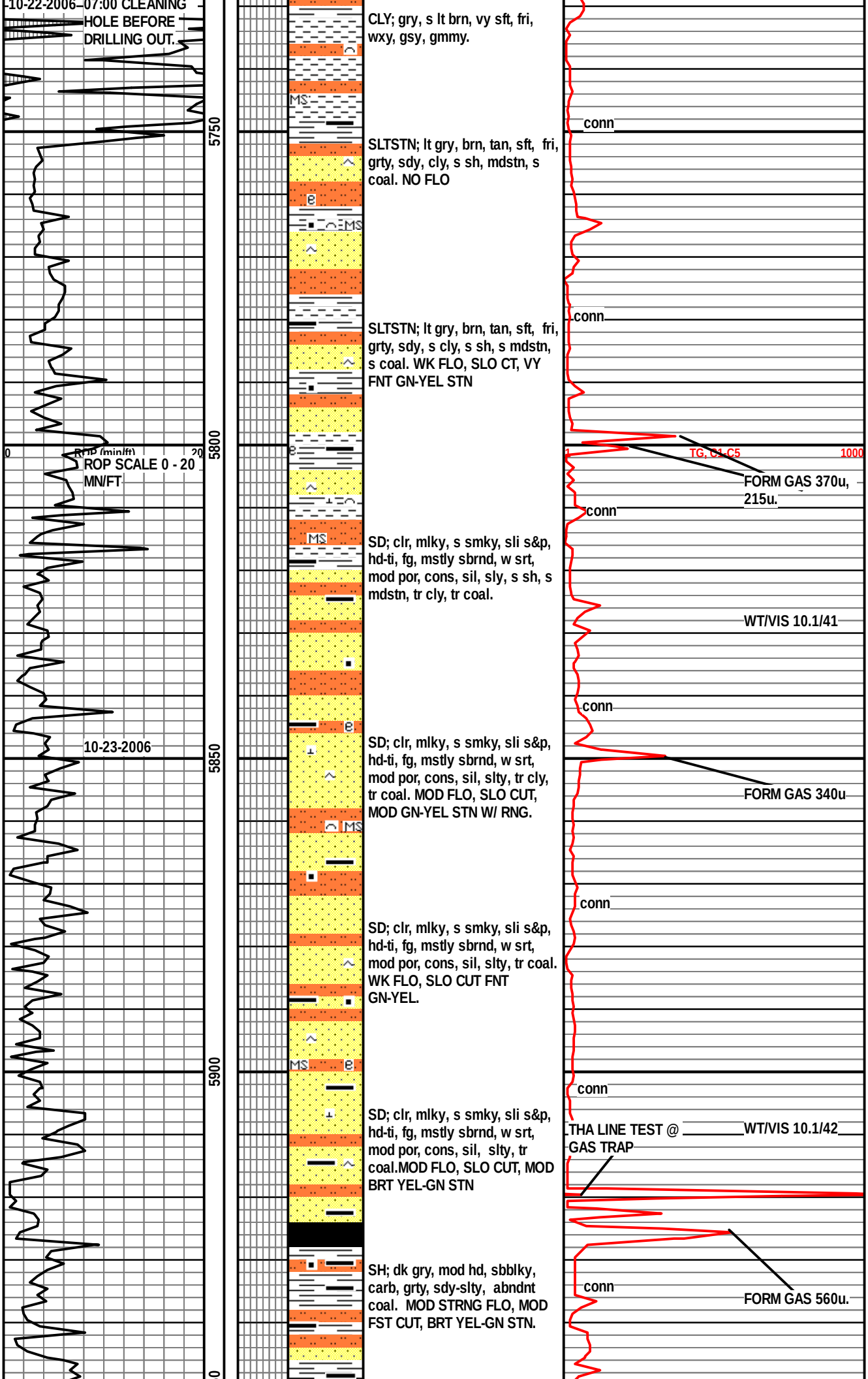

SURVEY; 3.75
4650
4700
4750
4800
0
ROP (min/ft)
10
SH; gry, dk gry, brn, mod frm, sbblky, rthy, slty, abndnt mdstn, flky cly, s mcrolam, s coal. MOD-WK FLO MED CUT FNT GN-YEL STN / RNG
SLTSN; lt gry, gry , sft, grty, abndnt cly, s flky/mcrlam s sh, s sd, mdstn, tr calc, s coal.
SLTSN; lt gry, gry , sft, grty, abndnt cly, s flky/mcrlam s sh, s sd, mdstn, tr calc, s coal. WK FLO SLO CUT FNT GN-YEL
SLTSN; lt gry, gry , sft, grty, abndnt cly, s flky/mcrlam s sh, s sd, mdstn, tr calc, s coal. WK FLO SLO CUT FNT GN-YEL
SLTSN; lt gry, gry , sft, grty, abndnt cly; vy sft, s flky/mcrlam s sh, s sd, mdstn, tr calc, coal. STRNG FLO, MOD FST CUT, YEL STN W/ RNG
SH; gry dk gry, brn, mod frm, sbplty, s blky, rthy, grty, s sd, slty, mdstn, abndnt cly, s coal. VY WK FLO, SLO, VY FNT GN-YEL STN
SH; gry dk gry, brn, mod frm, sbplty, s blky, rthy, grty, occ sd, slty, mdstn, bioclst, cly; s flky w/ mcrolam, s coal. WK FLO, SLO CUT, FNT GN-YEL STN
40-60u.
WT/VIS 9.5/41
conn
conn
FORM GAS 620u
conn
FORM GAS 650u.
conn
WT/VIS 9.5/43
conn
1
TG, C1-C5
1000
conn
conn

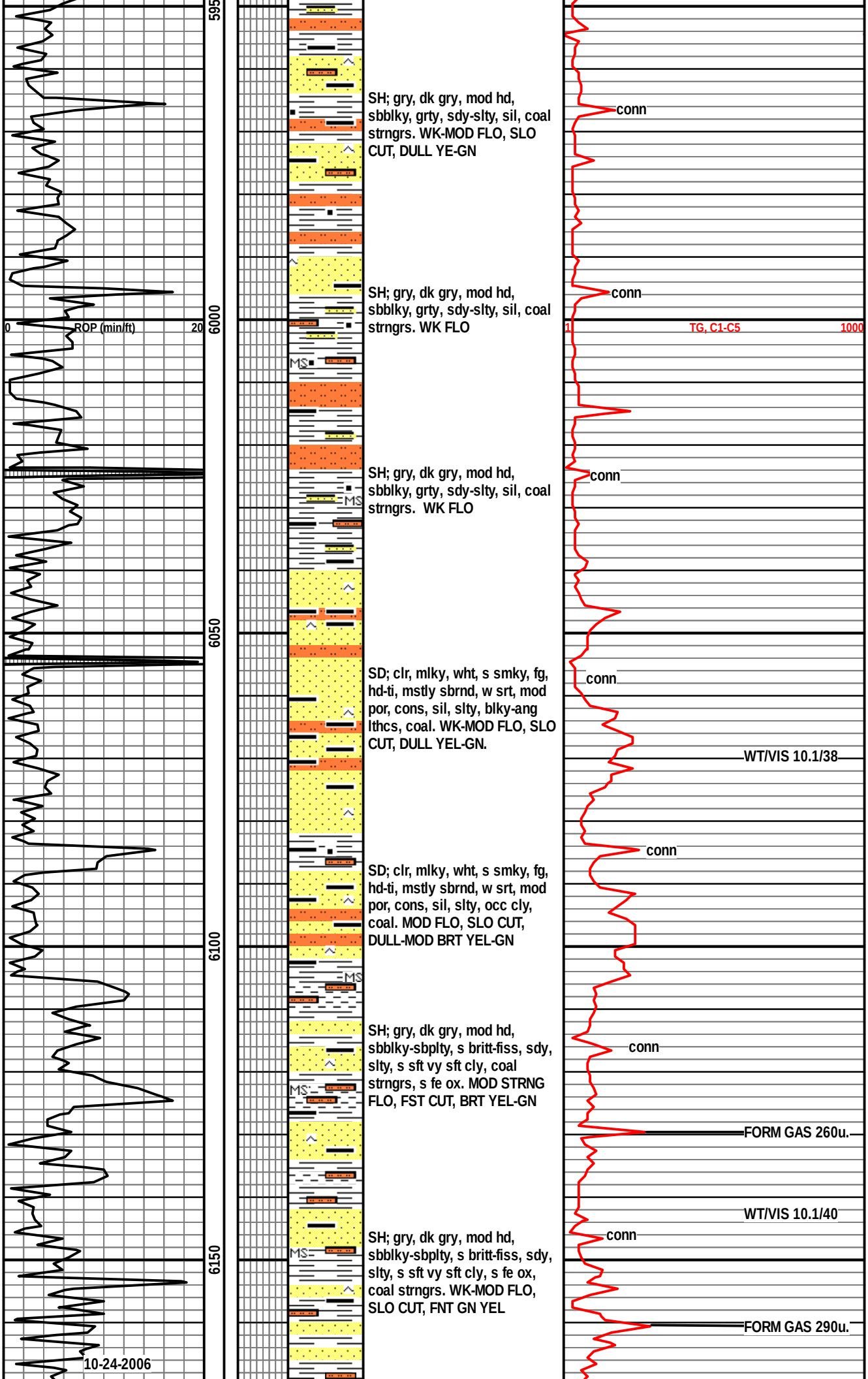

4850
4900
4950
5000
5050
SCALE CHANGE 0 - 20 MIN/FT
Scale Change
0
ROP (min/ft)
20
10-17-2006
TOOH @ 20:30 HRS, CHNG BIT, CHK MD MTR.
10-18-2006
TIGHT HOLE
LEWIS FORMATION 4980'
0
ROP (min/ft)
20
LEWIS SAND 5002'
ROP SCALE 0 - 20 MN/FT
SH; gry dk gry, brn, mod frm, sbplty, s blky, rthy, grty, slty, mdstn, abndnt cly, coal. STRNG FLO, MOD FST CUT, BRT YEL-GN STN W/ STRNG YEL RNG
SH; gry dk gry, brn, mod frm, sbplty, s blky, rthy, grty, slty, occ sd, mdstn, abndnt cly, s coal. STRG FLO, FST CUT, BRT GN W/ STRNG YEL RNG
SH; gry dk gry, brn, mod frm, sbplty, s blky, rthy, grty, slty, occ sd, mdstn, abndnt cly, s coal. STRNG FLO, FST CUT, BRT GN W/ STRNG YEL RNG
SH; dk gry, gry, mod frm, sbplty, rhty, abndnt cly; vy sft, fri, gsy, coal. WK FLO, SLO CUT, FNT GN-YEL STN
SH; dk gry, frm-mod hd, brit, sbblky, s sbplty, grty, mdstn, bioclst, sli calc. WK FLO, SLOCUT VY FNT GN-YEL STN
SD; clr, wht, s&p, s smky, hd-ti, fg, mstly sbrnd, w srt, mod por, cons, sil, sh, mdstn, clac. NO FLO
SD; clr, wht, s&p, s smky, hd-ti, fg, mstly sbrnd, w srt, mod por, cons, qtzs, sil, s sh, mdstn, sli calc. WK-MOD FLO, MOD FST CUT, FNT GN YEL RNG
conn
FORM GAS 580u.
conn
FORM GAS 1190u.
conn
10/18 TIGHT HOLE; REAMING/ CLEANING
1430 HRS: 4944'; PULL 10 STANDS; CIRCULATE / EVALUATE DOWNHOLE CONDITIONS
NB # 2 REED HYCALOG TD51XKPR TRI CONE
conn
THA LINE TESTS; 1040u, 980u.
conn
1
TG, C1-C5
1000
WT/VIS IN 9.9/43 OUT 10/44
conn
THA LINE TEST @ TRAP; 1160u.
conn

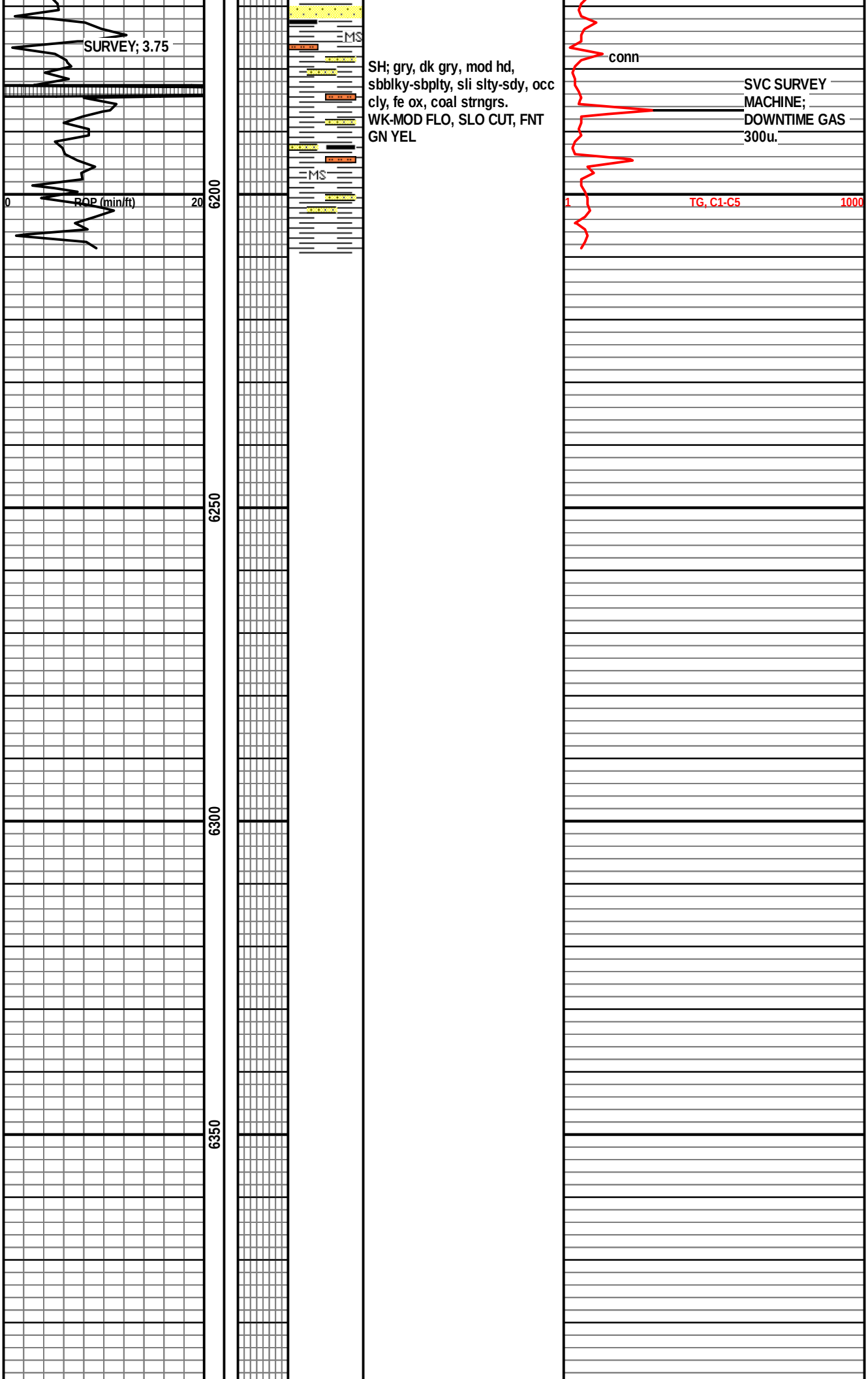

5100
5150
5200
5250
10-19-2006
0
ROP (min/ft)
20
SD; clr, wht, s&p, s smky, hd-ti, fg, sbang-sbrnd, w srt, mod por, cons, sil, qtzs, increasing sh, mdstn, bioclst, calc. MOD FLO, FST CUT GN-YEL RNG.
SD; clr, wht, s&p, s smky, hd-ti, fg, sbang-sbrnd, w srt, mod por, cons, sil, sh, mdstn, calc. MOD FLO, FST CUT GN-YEL RNG.
SH; dk gry, gry, frm-mod hd, brit, sbblky, grty, sdy, mdstn, bioclst, calc. WK FLO, MOD FST CUT, FNT GN YEL RNG.
SH; dk gry, gry, frm-mod hd, brit, sbblky, grty, sdy, slt strngrs, mdstn, bioclst, calc. WK FLO, SLO CUT, FNT GN RNG.
SD; clr, smky, mlky, sli s&p, hd, fg, mstly sbrnd, w srt, mod por, cons, sh, slt, mdstn. VY WK FLO, SLO, VY FNT GN RNG.
SLTSTN STRNGRS; lt gry, vy sft, grty.
SH; dk gry, gry, mod hd, brit, sbblky, slty-sdy, mdstn, s bioclst, fnt tr coal. VY WK FLO, SLO CUT, VY FNT GN RNG.
SH; dk gry, gry, mod hd, brit, sbblky, slty-sdy, mdstn, s bioclst, fnt tr coal. VY WK FLO, SLO CUT, VY FNT GN RNG.
MS
conn
THA LINE TEST; 1020u.
BACKGROUND TG 30-40u.
THA LINE TEST @ TRAP; 30 - 35 SECOND SHOT, 1680u.
1
TG, C1-C5
1000

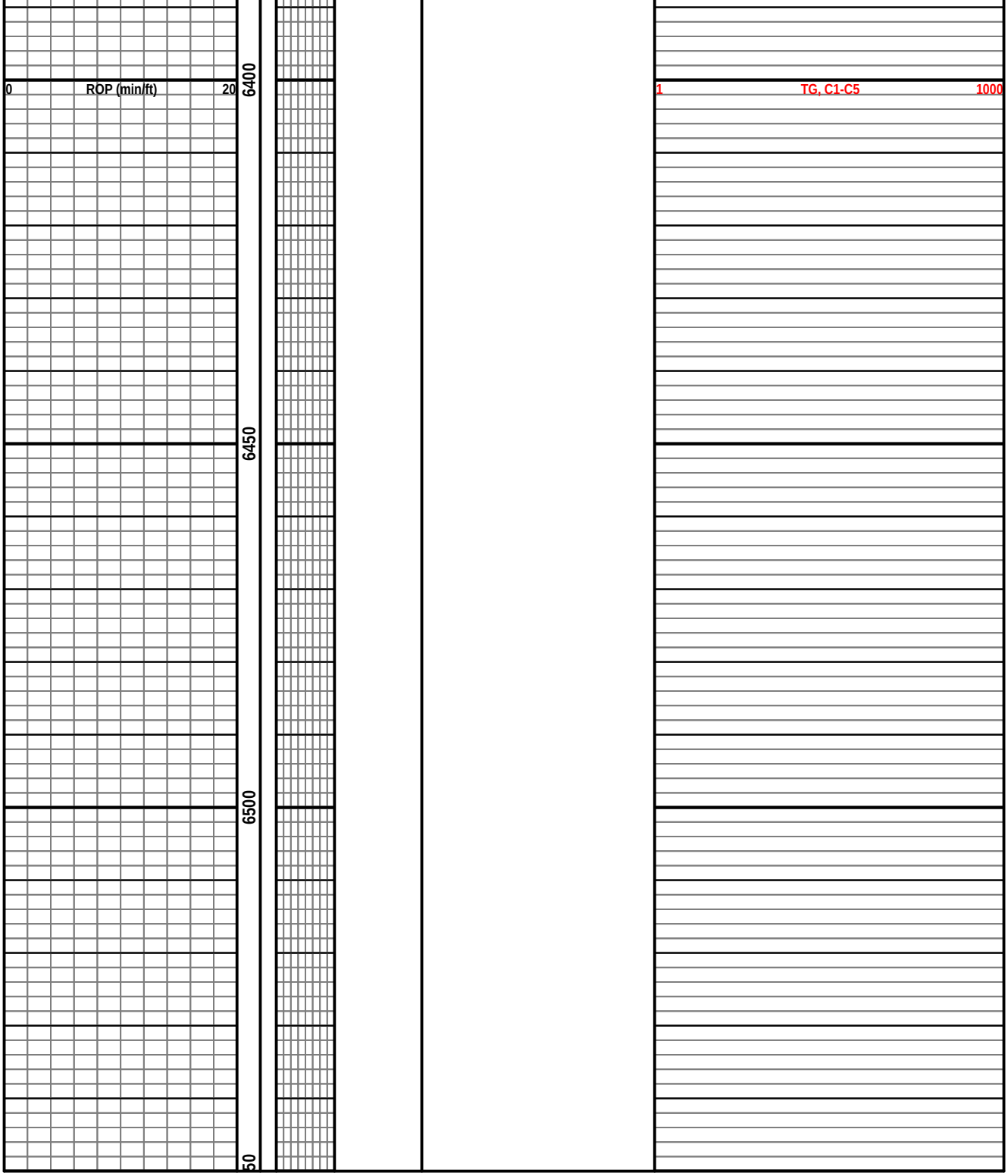

5300
5350
5400
5450
5500
10-20-2006
0
ROP (min/ft)
20
SH; dk gry, gry, mod hd, brit, sbblky, slty, s sd, mdstn, sli calc. NO FLO
SH; dk gry, gry, mod hd, brit, sbblky, slty, s sd, mdstn, s bioclst, sli calc. NO FLO
SH; dk gry, gry, mod hd, brit, sbblky, slty, occ sd, mdstn, sli calc. NO FLO
SH; dk gry, gry, mod hd, brit, sbblky, slty, s sd, mdstn, sli calc. NO FLO
SH; dk gry, gry, mod hd, brit, sbblky, slty, occ sd, mdstn, sli calc.
SH; dk gry, gry, mod hd, brit, sbblky, slty, occ sd, mdstn, sli calc.
SH; dk gry, gry, mod hd, brit, sbblky, slty, occ sd, mdstn, sli calc.
MS
conn
WT/VIS 10.4/42
BCKGRND GAS 20-30u.
TG, C1-C5
1000
WT/VIS 10.0/40.0
TG THA LINE TEST @ TRAP; 1320u.


ALMOND
FORMATION 5525'
0
ROP (min/ft)
20
5550
5600
5650
5700
TOOH @ 11:00
HRS; BIT CHANGE.
NB # 3 HYCALOG
TD151XKPR
SH; dk gry, gry, mod hd, brit, sbblky, slty, occ sd, mdstn, sli calc.
SLTSTN; lt gry, brn, tan, sft, fri, sbblky-sbrnd, grty, rthy, calc, mdstn, occ coal.
SLTSTN; lt gry, brn, tan, sft, fri, sbblky-sbrnd, grty, rthy, calc, mdstn, occ coal.
SD; clr, wht, smky, fg, hd, mod srt, mod por, uncon, sil, slty, mdstn, s sh, coal strngrs, sli calc. MOD-WK FLO, SLO CUT, DULL YEL-GN STN
COAL; sub-vit MOD STRNG FLO, MOD FST CUT, DULL YEL-GN STN
SLTSTN; lt gry, brn, tan, sft, fri, sbblky-sbrnd, grty, rthy, calc, s sh, mdstn, coal strngrs. MOD FLO, MOD FST CUT, MOD BRT YEL-GN
SLTSTN; lt gry, brn, tan, sft, fri, grty, rthy, s sh, mdstn, s coal. WK FLO, SLO CUT FNT GN
SLTSTN; lt gry, brn, tan, sft, fri, grty, rthy, sdy, s sh, mdstn, s coal. WK FLO, SLO CUT VY FNT GN STN
MS
conn
1
TG, C1-C5
1000
FORM GAS 560U


10-22-2006 07:00 CLEANING HOLE BEFORE DRILLING OUT.
5750
5800
5850
5900
ROP (min/ft)
0
20
ROP SCALE 0 - 20 MN/FT
10-23-2006
CLY; gry, s lt brn, vy sft, fri, wxy, gsy, gmmy.
SLTSTN; lt gry, brn, tan, sft, fri, grty, sdy, cly, s sh, mdstn, s coal. NO FLO
SLTSTN; lt gry, brn, tan, sft, fri, grty, sdy, s cly, s sh, s mdstn, s coal. WK FLO, SLO CT, VY FNT GN-YEL STN
SD; clr, mlky, s smky, sli s&p, hd-ti, fg, mstly sbrnd, w srt, mod por, cons, sil, sly, s sh, s mdstn, tr cly, tr coal.
SD; clr, mlky, s smky, sli s&p, hd-ti, fg, mstly sbrnd, w srt, mod por, cons, sil, slty, tr cly, tr coal. MOD FLO, SLO CUT, MOD GN-YEL STN W/ RNG.
SD; clr, mlky, s smky, sli s&p, hd-ti, fg, mstly sbrnd, w srt, mod por, cons, sil, slty, tr coal. WK FLO, SLO CUT FNT GN-YEL.
SD; clr, mlky, s smky, sli s&p, hd-ti, fg, mstly sbrnd, w srt, mod por, cons, sil, slty, tr coal.MOD FLO, SLO CUT, MOD BRT YEL-GN STN
SH; dk gry, mod hd, sbblky, carb, grty, sdy-slty, abndnt coal. MOD STRNG FLO, MOD FST CUT, BRT YEL-GN STN.
MS
conn
TG, C1-C5
1
1000
FORM GAS 370u, 215u.
WT/VIS 10.1/41
FORM GAS 340u
THA LINE TEST @ GAS TRAP
WT/VIS 10.1/42
FORM GAS 560u.


5950
6000
6050
6100
6150
0
ROP (min/ft)
20
1
TG, C1-C5
1000
SH; gry, dk gry, mod hd, sbblky, grty, sdy-slty, sil, coal strngrs. WK-MOD FLO, SLO CUT, DULL YE-GN
SH; gry, dk gry, mod hd, sbblky, grty, sdy-slty, sil, coal strngrs. WK FLO
SH; gry, dk gry, mod hd, sbblky, grty, sdy-slty, sil, coal strngrs. WK FLO
SD; clr, mlky, wht, s smky, fg, hd-ti, mstly sbrnd, w srt, mod por, cons, sil, slty, blky-ang lthcs, coal. WK-MOD FLO, SLO CUT, DULL YEL-GN.
SD; clr, mlky, wht, s smky, fg, hd-ti, mstly sbrnd, w srt, mod por, cons, sil, slty, occ cly, coal. MOD FLO, SLO CUT, DULL-MOD BRT YEL-GN
SH; gry, dk gry, mod hd, sbblky-sbplty, s britt-fiss, sdy, slty, s sft vy sft cly, coal strngrs, s fe ox. MOD STRNG FLO, FST CUT, BRT YEL-GN
SH; gry, dk gry, mod hd, sbblky-sbplty, s britt-fiss, sdy, slty, s sft vy sft cly, s fe ox, coal strngrs. WK-MOD FLO, SLO CUT, FNT GN YEL
MS
conn
WT/VIS 10.1/38
FORM GAS 260u.
WT/VIS 10.1/40
FORM GAS 290u.
10-24-2006


SURVEY; 3.75
0
ROP (min/ft)
20
6200
6250
6300
6350
MS
MS
SH; gry, dk gry, mod hd, sbblky-sbplty, sli slty-sdy, occ cly, fe ox, coal strngrs. WK-MOD FLO, SLO CUT, FNT GN YEL
conn
SVC SURVEY MACHINE; DOWNTIME GAS 300u.
1
TG, C1-C5
1000


0
ROP (min/ft)
20
6400
6450
6500
50
1
TG, C1-C5
1000