



Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: Koblitz #2
Location: SE SW SE
License Number: 15-077-21729
Spud Date: December 27, 2010
Surface Coordinates: 330' FSL & 1650' FEL Sec 31 Twp 33S-Rge 8W
Field: Hibbard NE
Bottom Hole Verticle Hole
Coordinates:
Ground Elevation (ft): 1301' K.B. Elevation (ft): 1312'
Logged Interval (ft): Surface To: 5156 Total Depth (ft): 5158'
Formation: Total Depth in Arbuckle
Type of Drilling Fluid: Chemical Displaced at 3090'
Region: Harper County, KS
Drilling Completed: January 9, 2011
Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Woolsey Operating Company, LLC
Address: 125 N. Market, Suite 1000
Wichita, KS 67202

GEOLOGIST

Name: Bill Klaver
Company: Woolsey Operating Co. LLC
Address: 125 N. Market, Wichita Kansas, 67202

COMMENTS

Surface Casing: Set 1 joint 20" X 52.75# conductor pipe at 40', ran 5 joints of new 10 3/4" X 32.75# casing to 216' KB (tally 205') with 230 sx Class A, 2% gel, 3% cc. Cement did circulate.

Production Casing: 5 1/2"

Deviation Surveys: 1/2 at 218', 1/2 at 691', 1/2 at 1193', 1/2 at 1697', 1/2 at 2194', 1/4 at 2728', 1/2 at 3195', 1/4 at 3849', 3/4 at 4351', 3/4 at 4404', 1 at 5158'.

Pipe Strap @ 4404', strap .50' short to the board.

Duke Drilling Rig 10 Bit Record:

#1 14 3/4" Smith RR in at 40' out at 218'

#2 7 7/8" Varrel HE 29 in at 218' out at 5158', 4940'/154 hours, 32' per hour.

Gas Detector: Woolsey Operating Co. Gas Trailer #2

Mud System: Mud Co. Brad Bortz, Jason Whiting, Engineers

DSTs: Trilobite Testing Inc. Leal Cason, Tester

OH Logs: Halliburton, Dual Induction Laterolog w/SP, CNL-FDC w/PE and Caliper, Microlog, Borehole Compensated Sonic Log.

DSTs

DST #1 Fort Scott. 4372'-4404', 30"-60"-60"-90". Strong blow BOB in 20 seconds, GTS in 22 minutes. Rec: 20' GCM (2%G, 98%M). IHP 2161, IFP 88-24, ISIP 1735, FFP 18-22, FSIP 1688, FHP 2150. BHT 117 degrees. IFP: 25-30" 8.0 MCF. FFP 10" 6.9 MCF, 20" 7.2 MCF, 30-40" 7.6 MCF, 50" 7.8 MCF, 60" 8.0 MCF.


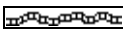
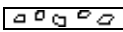
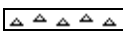
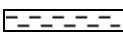
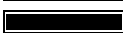
DST #2 Mississippi, 4387'-4535', 30"-60"-60"-120". SB BOB in 3 minutes, GTS in 35 minutes. Rec: 4282' GIP, 93' GCM (4%G, 96%M). IHP 2179, IFP 38-45, ISIP 1428, FFP 95-54, FSIP 1662, FHP 2119. BHT 129 degrees. FFP: 10" 32.5 MCF, 20" 31.7 MCF, 30-40" 30.9 MCF, 50" 31.7 MCF, 60" 32.5 MCF.







DST #3 Mississippi, 4536'-4570', 30"-60"-60"-120". SB BOB in 7 minutes, GTS in 50 minutes. Rec" 4294' GIP, 50' GOCM (10%G, 30%O, 60%M), 93' OGCM (40%G, 10%O, 50%M), 93' GOWCM (40%G, 10%O, 12%W, 38%M). IHP 2243, IFP 45-56, ISIP 1705, FFP 61-106, FSIP 1695, FHP 2170. BHT 120. FFP: 30-40" 29.3 MCF, 50-60" 30.9 MCF.


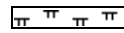
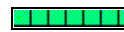
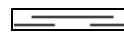


CREWS






**Joe Livingston, Tool Pusher
Alex Ordonez, Mornings
Scott Edwards, Days
Colby Crawford, Evening
Ron Burns, Relief**

ROCK TYPES

 Anhy
 Bent
 Brec
 Cht
 Clyst
 Coal

 Congl
 Sdy dolo
 Shy dolo
 Dol
 Gyp
 Sdy lmst

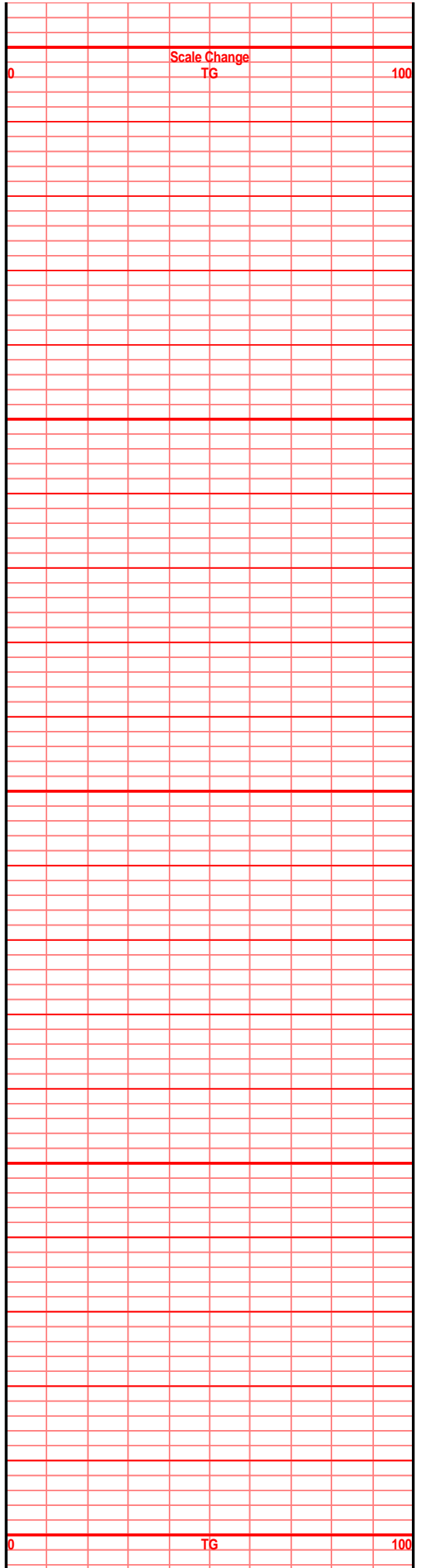
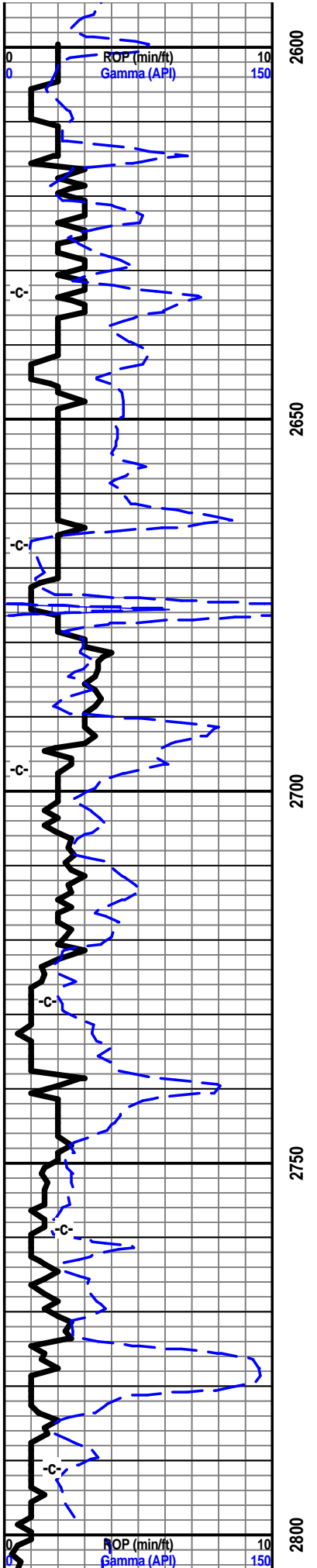
 Lmst
 Mrlst
 Salt
 Shale
 Sltst
 Ss

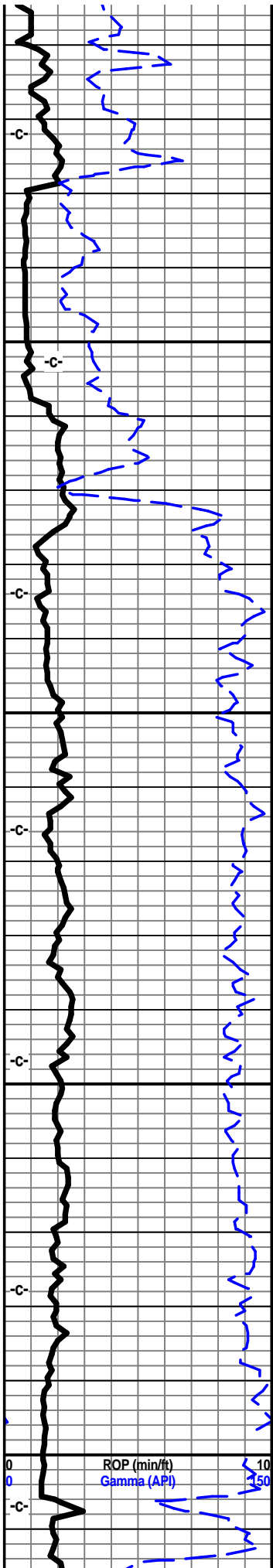
 Black sh
 Gry sh
 Shale
 Shyslst
 Sltys

January 3, 2011 Trip, hole in DP at 4106'
 January 4, 2011 Drilling at 4400'
 January 5, 2011 CFS at 4525'
 January 6, 2011 DST #3 at 4570'
 January 7, 2011 Drilling at 4738'
 January 8, 2011 Drilling at 5025'
 January 9, 2011 Logging

E-Logs Tops:

- Herington 1549 (-237)
- Onaga 2354 (-1042)
- Wabaunsee 2406 (-1094)
- LeCompton 3139 (-1827)
- Kanwaka 3171 (-1859)
- Heebner 3376 (-2064)
- Toronto 3391 (-2079)
- Douglas 3408 (-2096)
- Douglas Sand 3434 (-2122)
- Haskell 3689 (-2377)
- Stalnaker 3732 (-2420)
- Quindaro 3976 (-2664)
- Kansas City 'F' 3984 (-2672)
- Kansas City 'Iola' 4002 (-2690)
- Kansas City 'Dennis' 4075 (-2763)
- Stark 4128 (-2816)
- Kansas City 'Swope' 4151 (-2839)
- Hushpuckney 4174 (-2862)
- Kansas City 'Hertha' 4183 (-2871)
- B/Kansas City 4232 (-2920)
- Altamont 4289 (-2977)
- Pawnee 4347 (-3035)
- Fort Scott 4378 (-3066)
- Cherokee Group 4394 (-3081)
- Mississippi 4515 (-3203)
- Compton 4808 (-3496)
- Kinderhook 4814 (-3502)
- Woodford 4872 (-3560)
- Viola 4899 (-3587)
- Simpson Group 4953 (-3641)
- Wilcox 4966 (-3654)
- McLish Shale 5028 (-3716)
- McLish Sand 5103 (-3791)
- Arbuckle 5113 (-3801)
- LTD 5156 (-3844)





2850

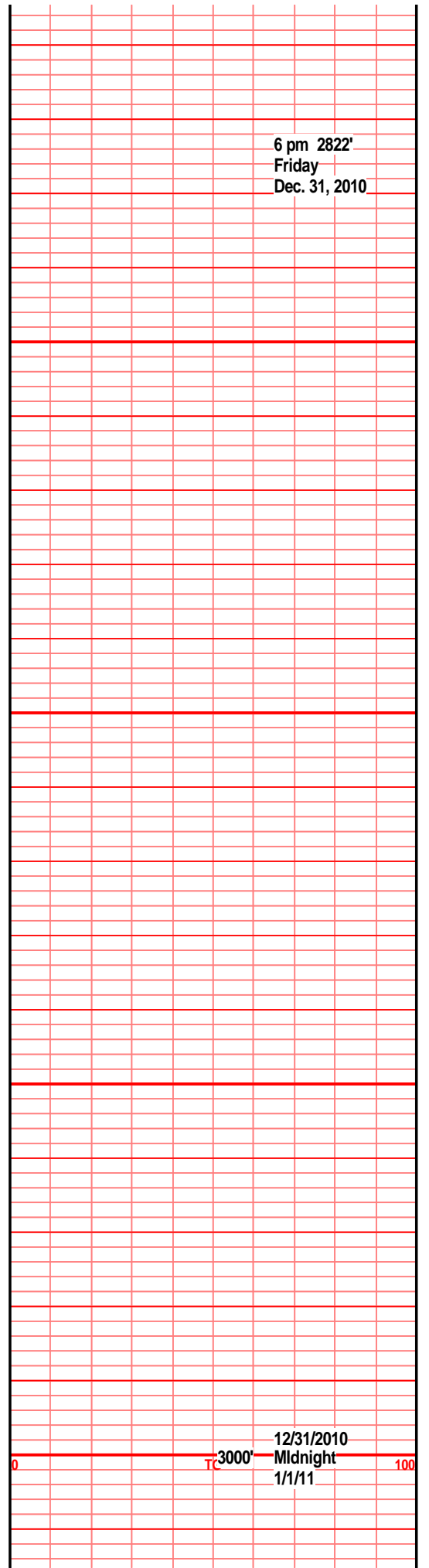
2900

2950

3000

ROP (min/ft)
Gamma (API)

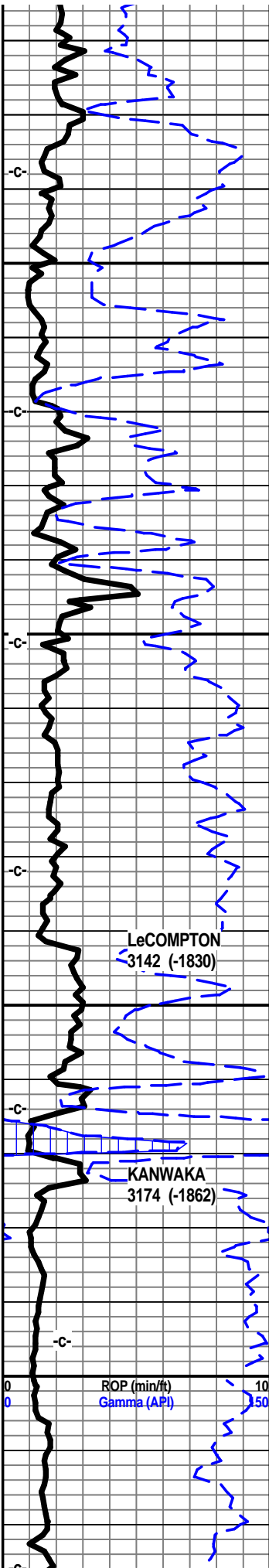
6 pm 2822'
Friday
Dec. 31, 2010



3000'

12/31/2010
Midnight
1/1/11

100



3050
3100
3150
3200

- Oil and Gas Show Legend**
- ⊗ Gas Show
 - Even Stain and Saturation
 - ◐ Spotted Stain and Saturation
 - Questionable Uneven Shows
 - ◑ Dead or Gilsonitic Show

1st tan gry vf xln gritty tr sndy soft chlky, shls, gry soft gritty

shl gry, 1st gry tan vf xln gran blk soft

shl gry med gry silty sft gritty

shl gry med gry soft, gritty sndy

shl gry med gry soft gritty

shl gry med gry soft silty

1st tan gry brn mott f sli med xln gran blk dns arg, ang, calc fill

shl gry, 1st tan brn mott f xln gran blk dns, sub chlky, calc fill

shl gry med gry, 1st tan brn gry mott f xln blk dns hrs calc fill

⊗ shl gry gritty, shl blk semi carb gas bubs

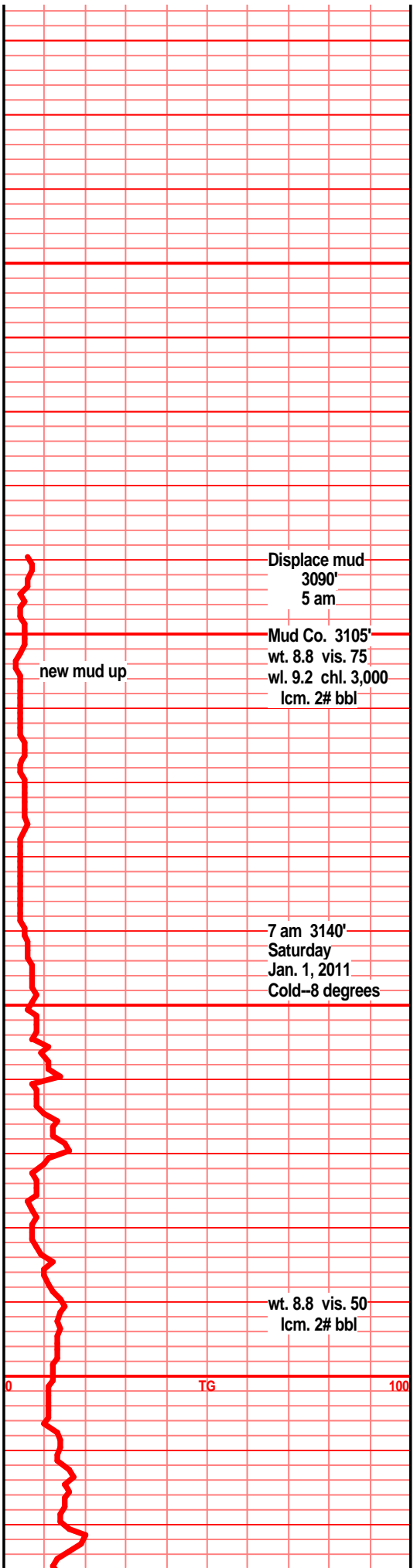
1st tan brn vf xln blk dns hrd, shl, gry soft gran

shl gry lt gry silty soft gritty

shl gry med gry silty tr gritty, soft

shl gry med gry soft silty tr sndy gritty

shl gry med gry soft silty gritty mic, blk carb flks



Displace mud
3090'
5 am

Mud Co. 3105'
wt. 8.8 vis. 75
wl. 9.2 chl. 3,000
lcm. 2# bbl

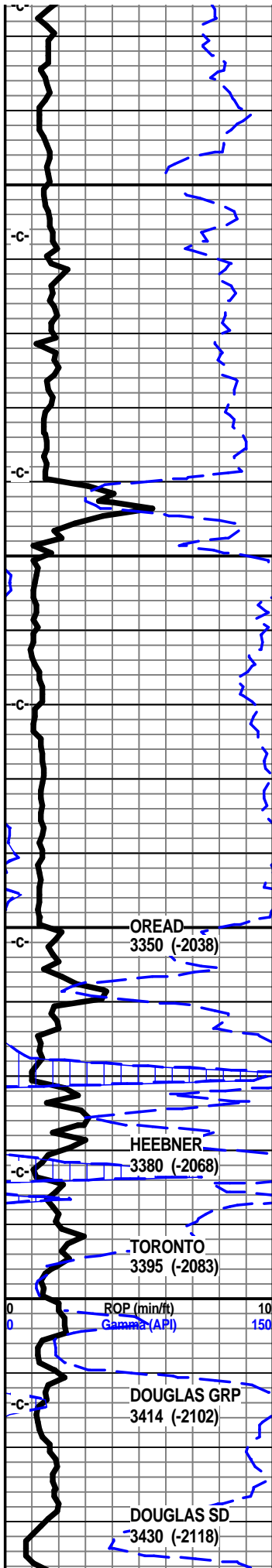
new mud up

7 am 3140'
Saturday
Jan. 1, 2011
Cold -8 degrees

wt. 8.8 vis. 50
lcm. 2# bbl

TG

100



shl gry med gry silty tr sndy gritty mic, much blk carb flks

shl gry med gry blk ang pcs, sndy, gritty mic, blk carb flks

shl gry md gry silty blk, mic, tr blk acrb flks

shl gr med gry silty blk pcs, blk carb flks

shl gry med gry silty, mic, blk carb flks

shl gry med gry silty blk soft pcs

shl gry med gry aa, lst tan brn f med xln blk dns ang hrd, calc fill

shl gry drk gry soft silty gran

shl gry drk gry silty soft gran

shl gry med drk gry silty soft

shl gry med-drk gry silty soft gran

shl gry med gry soft silty easy..

lst tan drk crm brn f vf xln dna hrd blk, gritty text, tr sub chlky calc fill arg

lst tan lt brn brn f vf xln dn shrd blk ang dns ang arg, foss frags, shls gry med gry

shl gry blk carb, wxy grsy, gas bubs, lst tan brn vf xln dns hrd blk ang calc fill

lst tan brn f vf xln dns hrd blk ang arg, calc fill, shl gry drk gry blk carb, wxy grsy, gas bubs

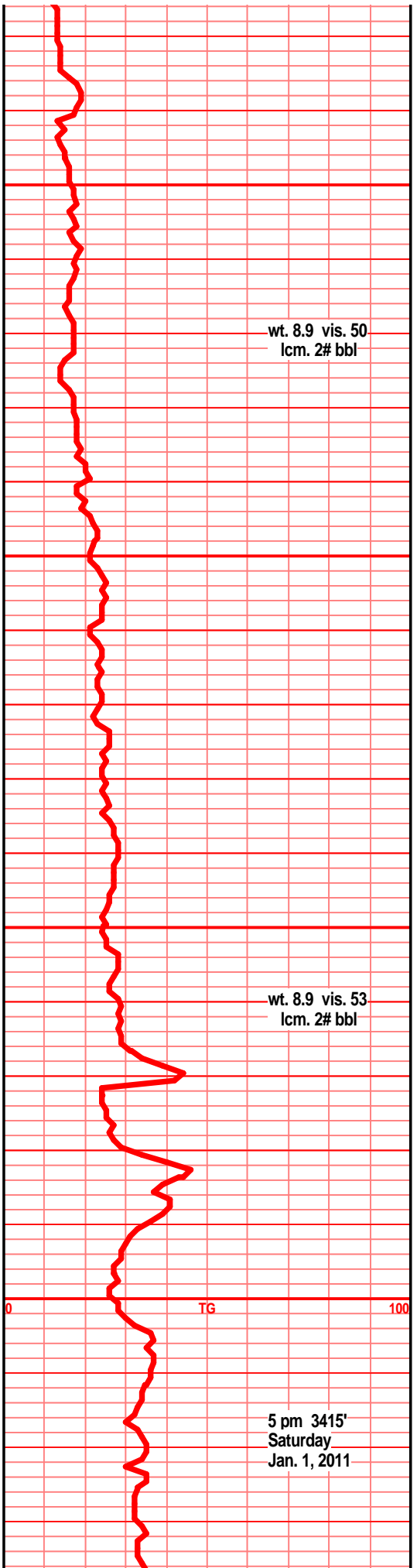
shl gr lt gry calc, fiss, blk ang pcs,

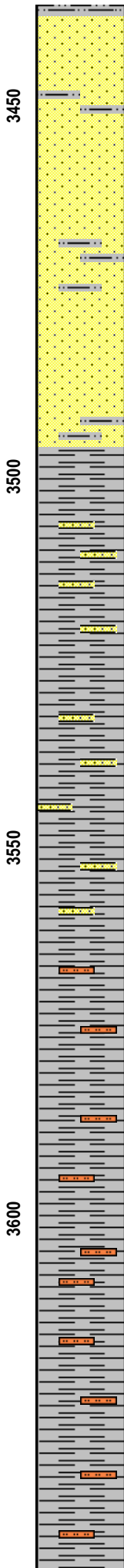
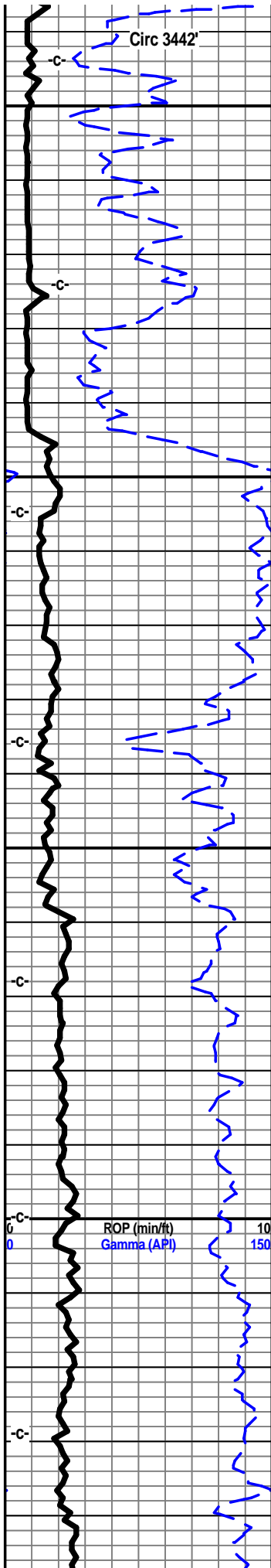
lst wht, buff tan f xln blk ang pcs, sub chlky micro foss, gran, soft, tr calc fill

lst wht off wht, buff tan f vf xln gran, sub chlky micro foss frags, calc fill, soft gran in prt.

shl gry, gry/green, soft silty gritty

sst off wht lt gry f vf grnd sub ang, prly srted, prly cem, calc cem, silty, arg, clay fill tr mic tr olau. tr blk carb flks.





gray, tan, green, mic, sst off wht lt gry clstrs, f vf grnd sub ang, prly cem, sub fria, prly srted, arg, clay fill, min fill, tr mic, tr glau, tite dns

sst tan off wht tr lt gry clstrs, f vf grnd, sub ang, ang grns, prly srted, fair cem, sub fria, calc cem, min fill, clay fill arg, tr glau, tite

sst crm tan tr lt gry f vf grnd clstrs, sub ang/ang grns, prly srted, fair/well cem, calc cem, sub fria, blk ang clstrs, min fill, tr glau, clay fill arg in prt

sst tan crm f vf grnd sub ang/ang clstrs, blk ang clstrs, prly srted, f/well cem, calc cem min fill, clay fill, arg in prt

shl grm gry green, silty sndy, snd grn inclu, tr mic,

shl gry med gry green silty sndy sst tan gry f grnd sub ang/ang, prly srted, w/cem, clay fill arg

shl gry med gry/green silty sndy gritty mic in prt

shl gry med gry silty gritty, mic sndy gritty, sst tan gry f grnd sub ang ang grns, arg silty mic

shl gry med gry silty mic tr sndy gritty, sst tan gry vf grnd shly clstrs, sub ang grnd, arg, mic, blk carb fill

shl gry lt gry mic sndy gritty, sst gry tan vf grnd sub ang arg silty mic blk carb fill

shl gry mic gran gritty sndy, mic blk carb fill

shl gry med gry, silty gritty mic

shl gry med gry blk ang pcs

shl gry med gry

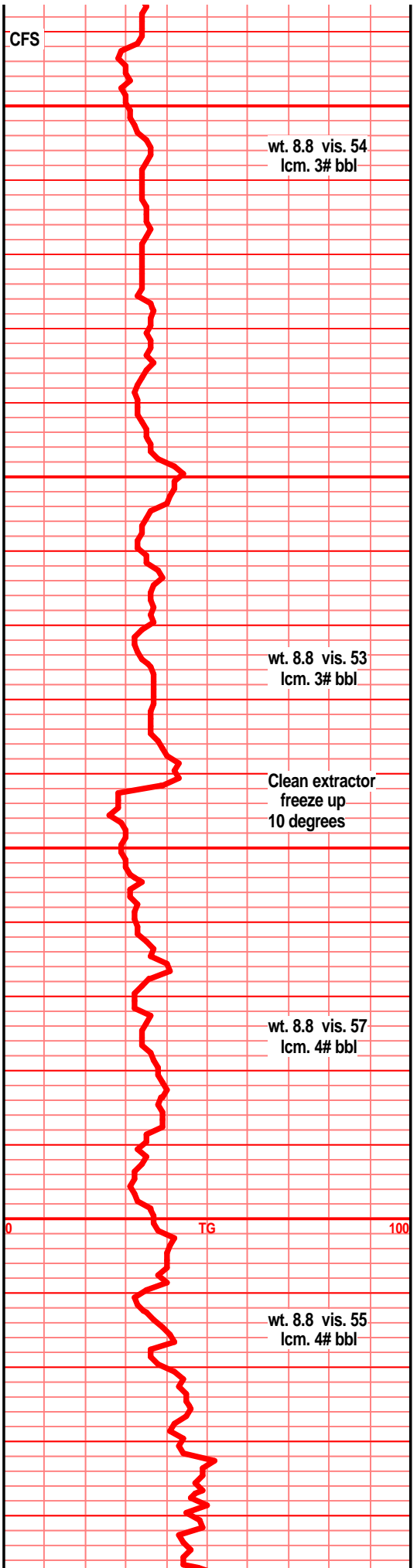
shl gry med lt gry silty mic in prt

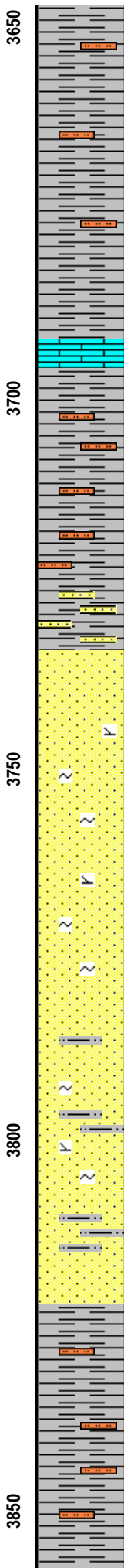
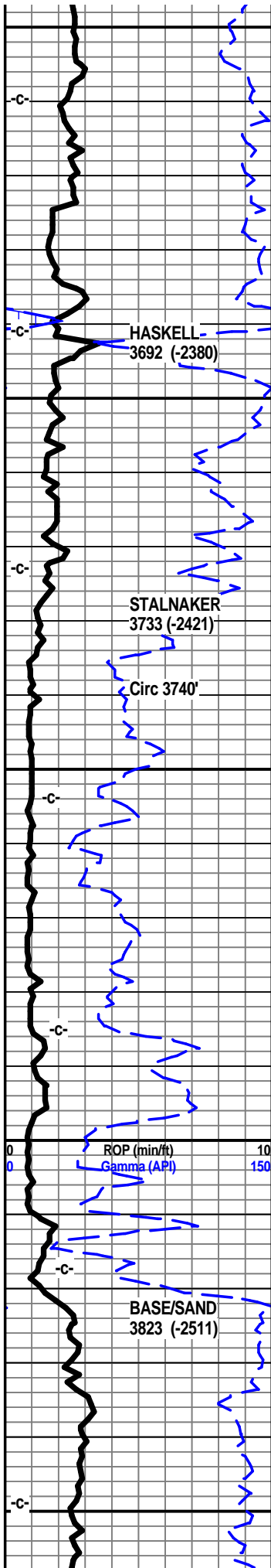
shl gry lt gry silty gritty mic in prt

shl gry lt med gry silty

shl gry lt med lt gry silty soft gritty in prt, tr mic

shl gry lt med lt gry silty soft gritty





shl gry lt med gry silty

shl gry lt gry silty

shl gry med gry silty soft

shl gry med gry

1st drk tan brn f sli med xln blk ang, hrd, micro foss, calc xln re-fill, tr arg, shl drk gry/blk semi carb

shl drk gry tr gry/blk, blk ang pcs

shl gry med gry silty soft, sndy gritty, snd gry inclu, much blk carb flks, gas bubs,

shl/sltstn gry med gry gritty silty sndy, snd grn inclu, clay fill, min fill, mic, much blk carb flk/fill, shl drk gry/blk semi carb

sst off wht tan f vf grnd clstrs, sub ang/ang grns, prly srted, w/cem, calc cem, packed dns, tr hrd, min fill, tr glau, tr mic, much blk carb flks/fill tr random gas bubs, nodor NSFO

sst off wht tan vf grnd clstrs, sub ang/ang grns prly srted, mstly w/cem, calc cem, sub fria, min fill, glau, tr mic

sst off wht tan clstrs, f vf grnd, sub ang/ang grns, prly srted, mstly w/cem sub fria, calc cem, min fill, tr glau, packed dns clstrs, tr clay fill.

sst wht tan off wht f vf grnd clstrs, sub ang/ang grns, prly srted, w/cem, sub fria, calc cem, min fill, blk specks, tr glau, blk ang hrd pcs in tray

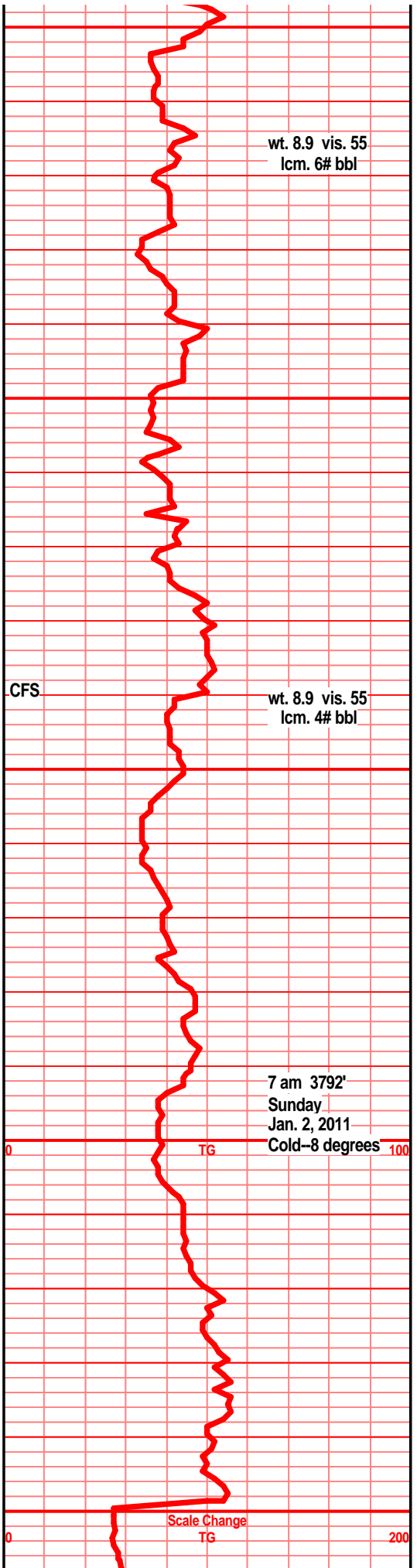
sst off wht tan wht clstrs, f vf grnd, sub ang ang/grns, w/cem, calc cem, blk min fill, tr glau, tr arg clay fill, blk ang hrd clstrs, tr blk carb fill

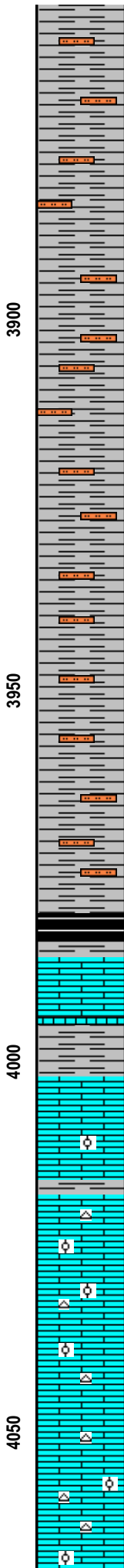
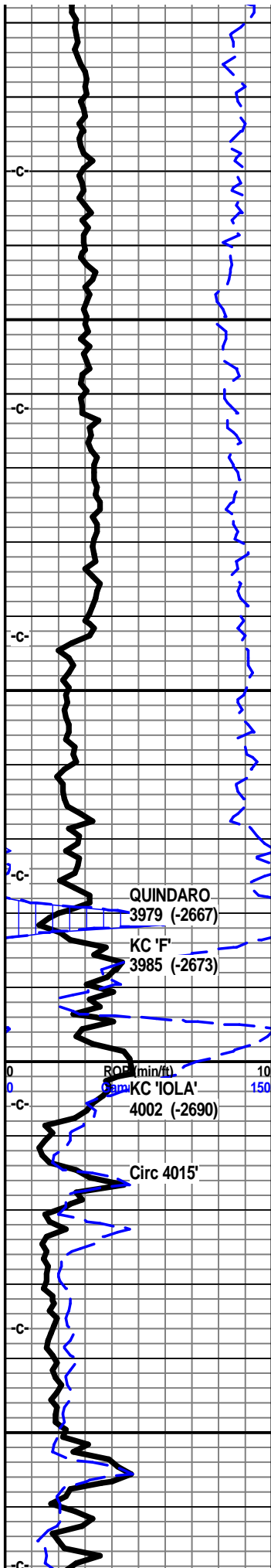
shl med gry drk gry, blk ang pcs

shl gry med drk gry blk ang hrd pcs

shl gry drk gry silty in prt

shl gry drk med drk gry silty, blk ang pcs





shl gry med drk gry silty

shl gry med drk gry

shl gry drk ggry silty blk ang pcs

shl gry drk gry no change

shl gry drk gry

shl gry drk gry tr silty, tr gritty

shl as above, no change

shl as above, gry drk gry silty blk ang pcs, tr gritty

shl gry drk gry tr silty

shl gry, gry blk, drk blue blk

shl gry drk gry blk, deep brn/blk gritty in prt

shl drk gry, drk brn/blk, carb, wxy grsy, abun gas bubs

lst tan buff lt brn f vf xln dns hrd blk tr sub chlky calc fill, foss frags, micro foss

shl gry brn calc, lst aa, lst tan brn vf xln blk dns hrd ang calc xln fill

lst crm buff tan tr lt brn f xln blk ang pcs, sub chlky foss frags, tr foss ool, pp/foss mold por, gas bubs, tr lt transl filmy SFO

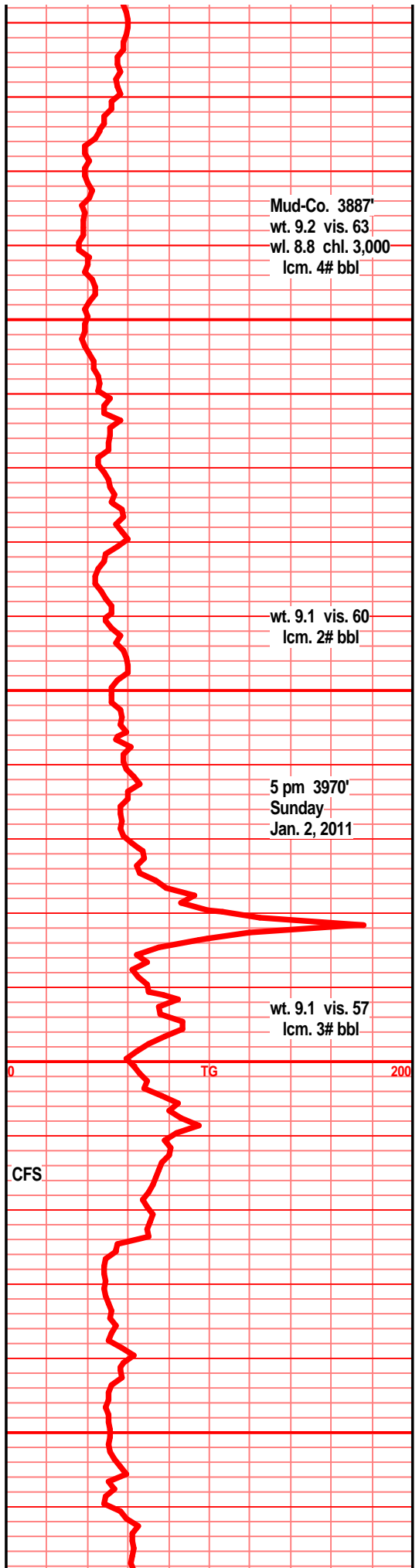
lst crm buff tan f vf xln gran flky sub chlky foss frags, foss ool, pelletal, foss mold por, pp por NS

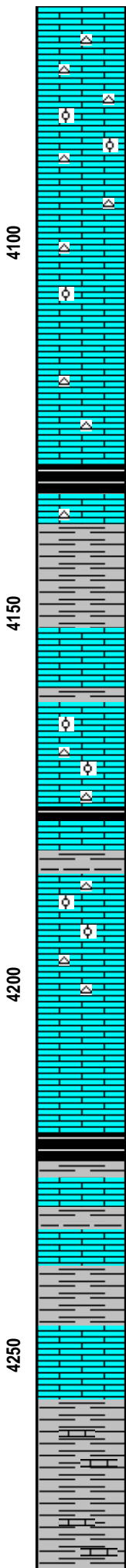
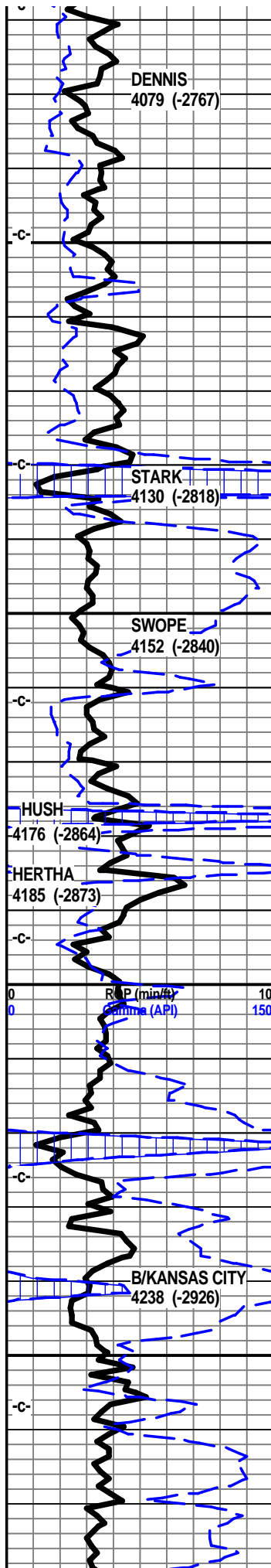
lst tan wht buff f xln blk ang gran sub chlky foss frags, foss ool, chrt wht shrp frsh opa, foss mold por, v/chlky in prt

lst crm buff tan f xln gran blk flky sub chlky foss frag, gd foss mold por, chrt wht shrp opa, calc xln fill

lst tan buff wht f xln gran flky sub chlky foss frags, foss ool, chrt wht shrp opa, lst tan gry vf xln dns hrd blk foss frags

lst crm buff tan f vln blk sub chlky foss frags





1st crm buff tan f xln blk sub chky foss frags, foss ool, calc xln fill, foss mold por, chrt tan wht shrp frsh foss opa

1st crm wht lt tan f xln blk ang flky sub chky foss frags, foss mold por, calc xln fill chrt wht shrp frsh opa foss

1st crm buff tan f xln blk sub chky foss frags, moldic por, calc xln fill, chrt wht tan shrp frsh opa foss

1st crm tan wht f xln blk gran ang flky in prt, sub chky, foss frags, pp por tr foss mold por, chrt wht tan shrp frsh foss

1st crm buff wht f xln blk ang, sub chky foss frags, foss ool, chrt wht shrp frsh foss opa, calc xln re-fill

shl blk carb, gas bubs, 1st crm buff f xln blk ang dns sub chky foss frags, foss ool, chrt wht shrp frsh foss opa

shl gry gry/brn calc, 1st tan lt brn f vf xln dns hrd arg tr foss frags, tr calc xln fill, chrt tan brn shrp frsh opa

1st tan brn f xln blk dns hrd, tr sub chky foss frags, tr foss ool, tr pelletal, tr pp/moldic por, mstly tite dns, chrt tan brn shrp frsh

1st tan crm brn f vf xln blk dns hrd v/chky to sub chky foss frags, tr pp por, mstly dns, VSSFO/stain, tr gas bubs no odor

tr blk carb shl, wxy grsy, 1st dull tan gry f mic xln dns hrd blk, micro foss, chrty, chrt gry tan shrp frsh opa

1st buff gry vf xln dns hrd blk, mic foss, chrty, chrt tan gry shrp frsh

1st crm tan brn f vf xln dns hrd blk, foss frags, crsly foss in prt, hvy calc xln fill NVP, gas bubs, filmy SFO on break, nodor

1st tan dull gry tr lt brn f vf xln blk dns hrd, foss frags, crsly foss in prt, foss ool. packed-tite, hvy calc xln refill, NVP, tr gas bub, tr filmy SFO on brk, nodor

shl gry blk, blk carb, wxy, grsy, 1st tan brn dull gry f vf xln dns hrd blk dns arg

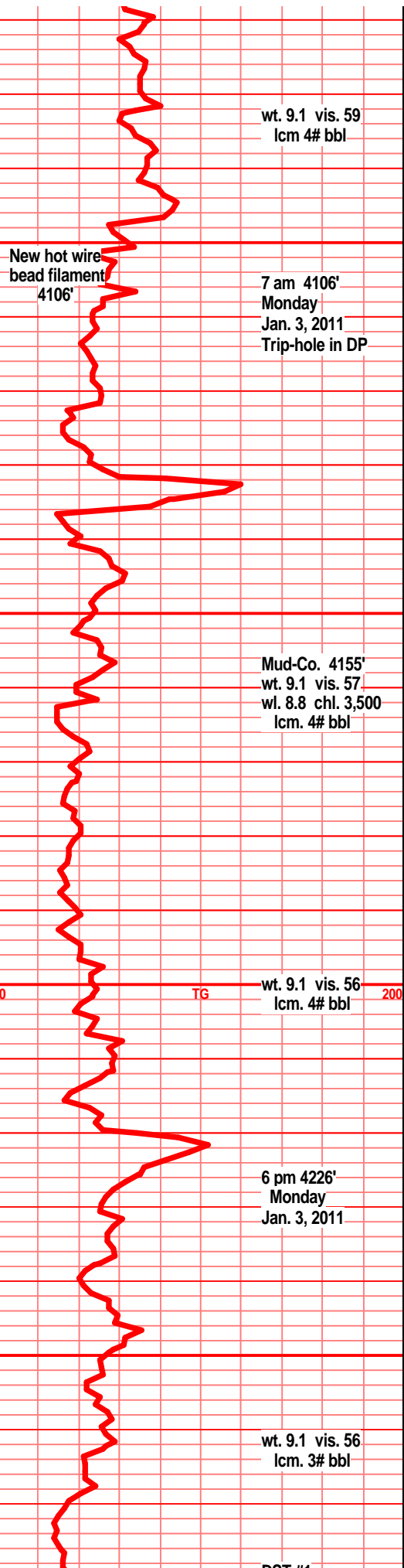
1st gry tan brn f sli med xln blk ang hrd ang arg, massive, foss frags, foss ool, hvy calc xln fill, chrt tan brn shrp frsh foss

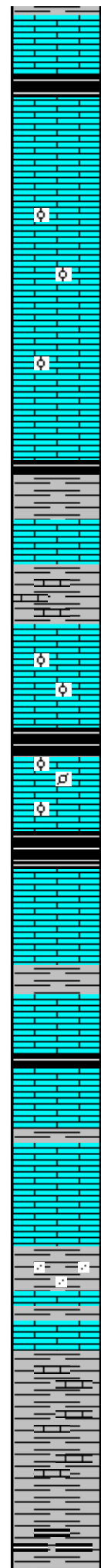
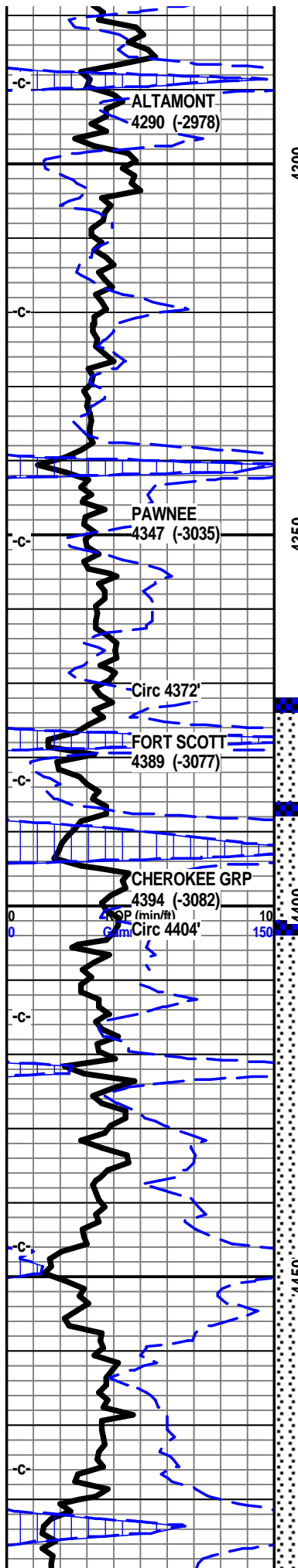
shl gry blk, brn blk calc, 1st tan gry brn vf xln dns hrd arg ang, calc xln fill, foss frags,

1st tan buff f xln blk dns sub chky foss frags, foss ool, flky, soft in prt

shl gry, gry brn, blue green, silty, gritty, calc in prt, foss frag inclusions.

shl gry gry brn silty calc blk ang pcs. shl gry blue/green silty gritty tr sndy, 1st gry brn vf xln dns hrd blk arg





lst tan crm buff off wht f vf xln blkly dns sub chlky, tr flky micro foss frags, tr calc xln re-fill

blk carb shl in spl, lst crm buff tan f vf xln blkly ang dns hrd tr sub chlky

lst buff tan crm f vf xln blkly ang hrd dns sub chlky in prt, micro foss frags, tr calc xln fill

lst buff tan crm f vf xln dns hrd blkly ang sub chlky tr micro foss

lst buff crm tan f vf xln blkly ang hrd dns, tr sub chlky, micro foss, tr calc xln fill

lst buff tan lt gry tan f vf xln dns hrd blkly ang tr sub chlky tr micro foss, tr calc xln fill

shl gry, gry blk, blk, carb in prt, lst tan gry vf xln dns hrd ang arg tr micro foss

shl gry brn calc, lst tan brn f vf xln dns hrd blkly ang arg, calc xln fill

lst buff tan, dull gry/brn f vf xln massive dns hrd, tr micro foss frags, calc xln fill, gran arg in prt NS

lst buff tan, lt gry/brn vf xln dn shrd blkly ang micro foss frags, calc xln fill, shl gry blk carb

lst tan buff f med xln blkly gran foss frags, crsly in prt, tr sub chlky, foss mold, gd vug por, fair/gd odor, gd gas, lt transl SFO, lt stain

shl blk carb, wxy grsy, lst crm tan lt brn f xln blk dns hrd ang, foss frags, foss ool, tr calc xln fill, abun show as above in sample.

shl gry brn, lst tan buff crm f xln blkly ang sub chlk micro foss, arg

lst tan buff lt brn f vf xln gran blkly sub chlky foss frags, arg, mic foss, chrtly

shl gry blk carg in prt, lst tan brn vf xln dn shrd blkly ang foss frags micro foss, tr ool, tr chrt tan brn shrp frsh

lst drk tan brn f vf xln dns hrd blkly tr arg micro foss, massive, ang arg, tr shl lt gry blue silty sndy gritty

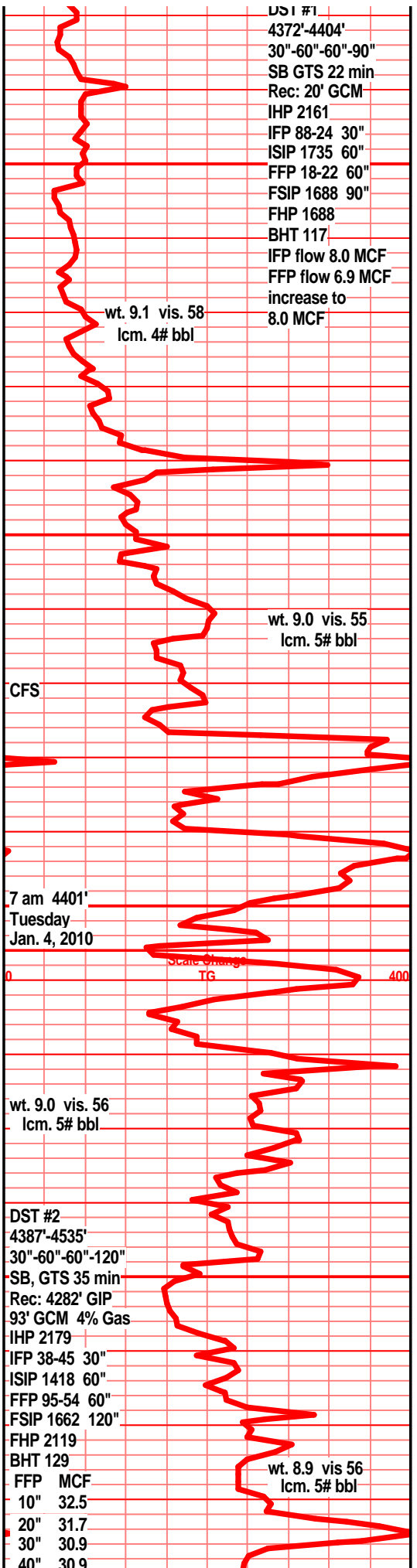
lst drk tan brn vf xln blkly dns hrd massive micro foss frags arg

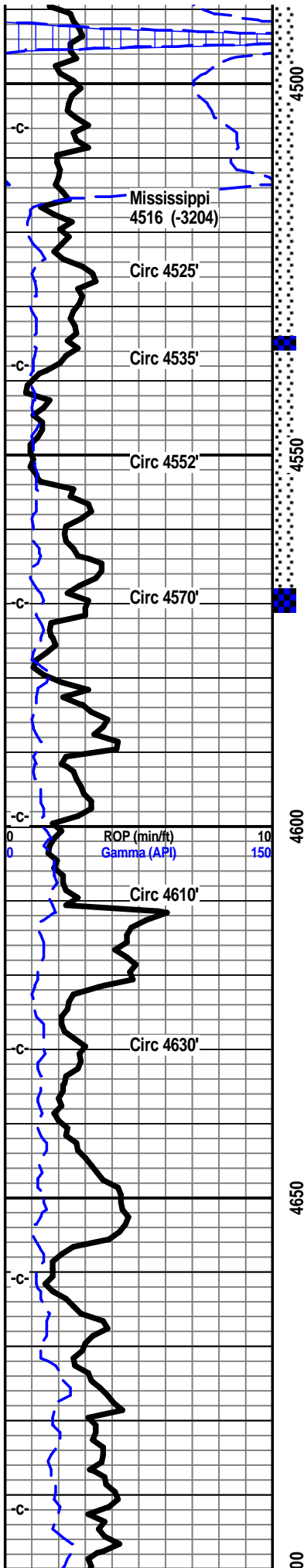
shl gry blue/green silty sndy gritty soft, sltstn blue sndy gritty, snd grn inclu

shl gry gry brn, shl lt gry green silty gritty, gran, calc in prt, lst an brn vf xln blkly dns hrd ang arg silty

shl gry bry, gry blk, silty gritty, calc in prt, lst tan gry brn blkly ang hrd dns

shl gry blk, gry brn silty gritty, tr carb in prt, green red banded ratty silty





shl gry, gyr blk, brn yllw tr maroon silty gritty ratty, lst gry brn vf xln blkly dns hrd arg silty

shl gry green brn maroon, tr yllw, tr vari color, silty gritty ratty

shl gry brn yllw, maroon vari color ratty
 chrt wht gry smokey shrp frsh opa, tan dolo edge, f xln gran, moldic por, dolo, lst in prt, tan crm f xln blkly ang tr foss, inter xln por, chrty, glau
 dolo lst in prt, tan drk tan f sli med xln blkly ang tr suc text, fair inter xln por, tr vug por, lt stain, blk stain, fair SFO, gas bubs, odor, chrt wht/gry shrp frsh w/dolo edge, vug por, stain, SFO, gas bubs, blk stain.

dolo lt tan lt brn f xln gran soft blkly ang gran, suc, blkly ang, micro por, inter xln por, gd odor, gd SFO/STAIN, "bleeding" oil and gas, chrt lt gry off wht shrp frsh opa, dolo aa along edge in prt w/ SFO, stain gas bubs

dolo, lst in prt f xln gran blkly tr suc text, glau, inter xln por, tr chrty, lt brn stain, SSFO, gas bubs, odor
 lst/dolo in prt f med xln blkly flk tr sub chlky, glau, tr chrty, chrt wht lt gry shrp frsh opa, glau, tr w/dolo edge, tr stain VSSFO tr gas bubs, sli odor

dolo, lst in prt crm lt tan f xln gran, suc text, glau inter xln por, lt stain, SFO, gas, chrty, chrt wht, shrp, gran dolo edge w/stain, SFO, gas, fair odor

dolo chrty dolo crm tan f xln gran soft tr suc test glau, inter xln por, odor, SFO, gas bubs, lt stain

dolo crm off wht f xln, gran suc text, glau, inter xln por, pp por, tr lt stain, SSFO, tr gas, lt stain, chrt tan gry, smokey, shrp frsh w/dolo edge show aa, dec show with depth

lst tr dolo in prt, gry wth tan mott, f sli med xln blkly dns hrd ang pcs, chrty, chrt gry smokey shrp frsh foss opa, tr stain, dec show

lst tr dolo, drk tan gry mott f xli med xln gran blkly dns hrd, chrty, chrt tan gy shrp frsh

lst dolo in prt f xln blkly ang dns tr sub chlky, drk tan lt gry mott, chrty, chrty gry smokey opa frsh blkly tr dolo edge

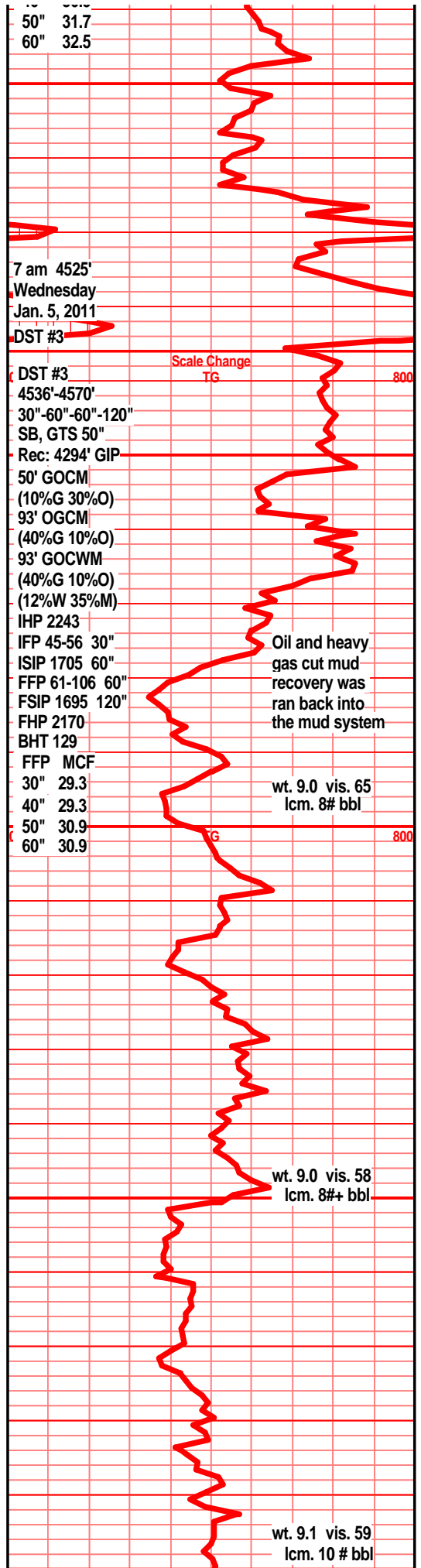
lst dolo in prt, chrty dolo, f xln gran ang blkly, drk tan lt gry mott text, chrt gry shrp blkly frsh, dolo gry tan edge, gran text

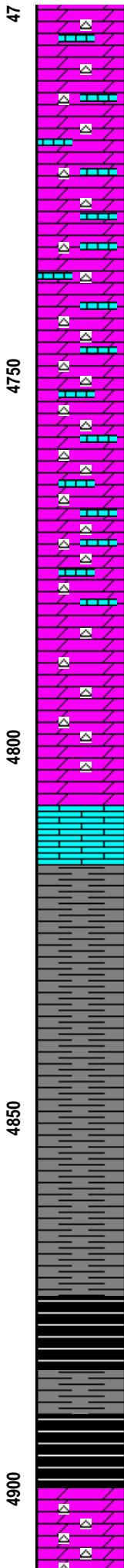
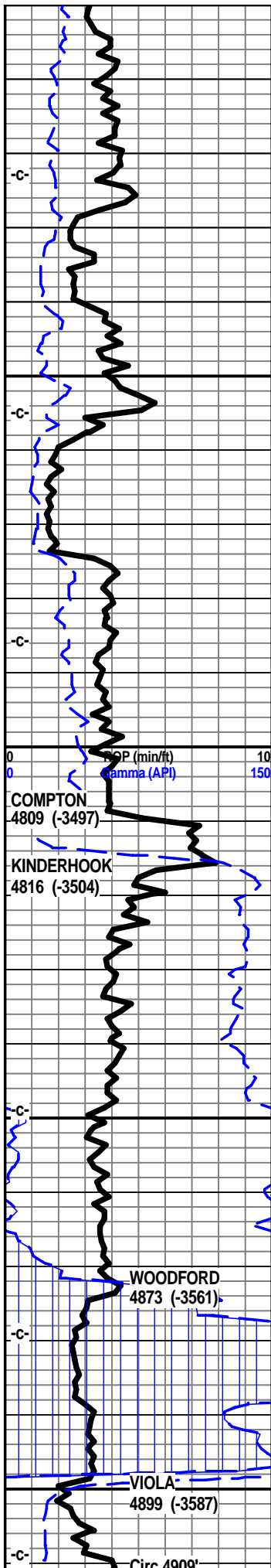
lst drk tan lt gry mott, f tr sli med xln, blkly ang chrty pcs, chrt gry smokey shrp frsh opa, silty dolo edge

lst tan gry, mstly lt gry, f xln gran blkly dns, chrty, chrt gry smokey shrp frsh foss

dolo lst in prt drk tan gry, gry tan mott blkly ang hrd dns pcs, chrty in prt, chrt gry smokey shrp frsh opa tr glau

dolo lst in prt, tan bec gry tan lt gry vf xln gran





gritty tr silic text, tr chrty, chrt gry smokey shrp frsh foss

dolo tr lst in prt, tan lt gry, lt gry vf xln blk dns ang hrd tr silic text, tr sndy gritty text, chrty, chrt gry shrp frsh

dolo tan gry mott vf xln gran blk ang hrd dns, chrty, chrt tan gry smokey shrp frsh opa

dolo tan gry mott f vf rnd tr silty gritty text soft crumbly in prt, inter gran por, tr inter xln por, chrty, much chrt gry tan shrp frsh opa

dolo tan, gry/tan mott f vf xln silty gritty gran in prt, arg, tr silic text, blk nds arg, chrty, chrt gry shrp opa frsh foss

dolo tan gry msly gry vf xln dns hrd blk silic text, chrty, chrt gry shrp opa

dolo tan drk tan gry mott in prt, f vf xln gran blk dns hrd, silty arg in prt, v/chrty, chrt tan gry smokey shrp frsh opa

dolo tan drk tan gry vf xln gran gritty text silic in prt, dns hrd, crumbly, v/chrty, chrt gry smokey shrp frsh foss

chrty dolo tan drk tan gry mott, vf xn blk dns ang hrd, chrt wht tan smokey shrp frsh foss

chty dolo tan gry mott, vf xln blk dns hrd, silic text in prt, silty arg, chrt tan gry smokey shrp frsh opa foss in prt

lst tan off wht f xln blk ang hrd, dns, tr mic foss, micro ool,

shl gry dry gry tr blk, fnly silty gritty

shl gry blk, drk gry/green, fnly silty, gritty, tr bedded/banded

shl gry drk gry tr blk, fnly silty gritty

shl drkgyr blk, gry/drk green silty, fnly gritty,

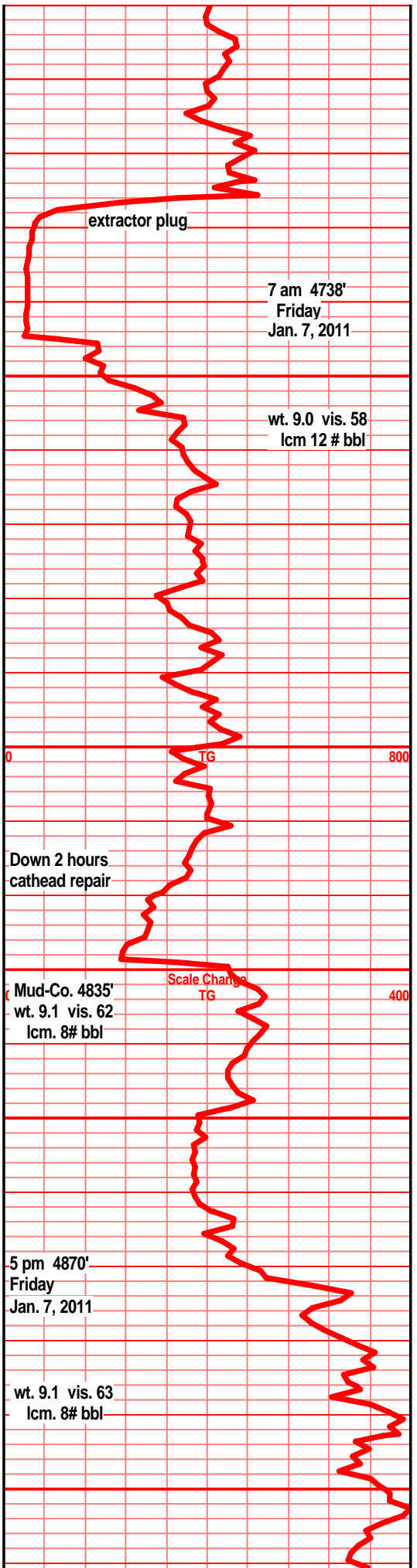
shl gry drk gry tr blk, gry/drk green silty gritty

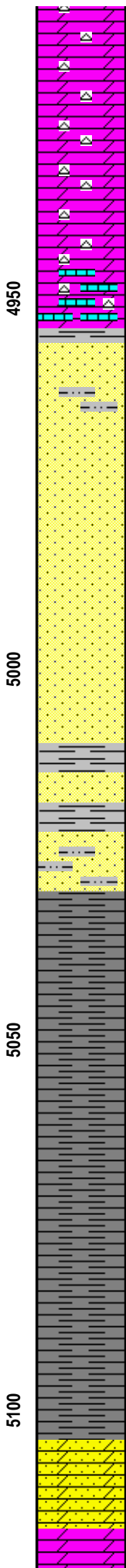
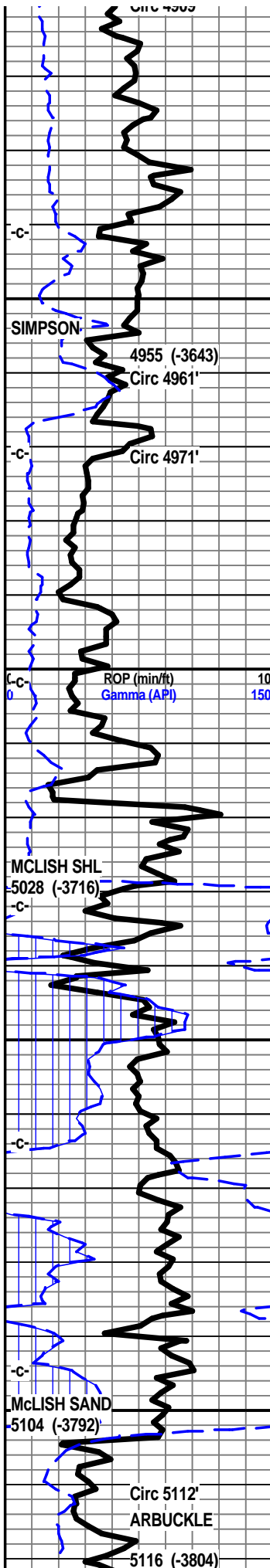
shl bk carb, blk ang pcs, abun gas bubs

shl drk gry blk, deep red/brn blk wxy grsy abun gas bubs

shl drk gry blk, blk deep/brn-red blk ang pcs, abun gas bubs

sst 2-3 clstrs, clr/frstd grns, f grnd, ang grns, prly srted, hvy clay fill, v/pyritic, min fill, dolo tan lt brnf xli med xln gran blk pcs, sndy sli sucr text, gd inter xln por, chrty in prt, chrt dull





gry/tan shrp trsrn

dolo tan lt brn f sli med xln gran blkny sndy sli sucr text, inter xln por, NS, chrt dull tan lt gry shrp frsh opaqa blkny

dolo drk tan brn f xln blkny ang dns pcs, sli sucr text, chrt, chrt drk tan dull gry/tan shrp frsh opaqa

dolo drk tan brn f sli med xln blkny dns hrd ang pcs, silic tr sucr text, chrt in prt, chrt drk tan dull tan gry shrp frsh opaqa, much chrt rubble in spl

lst wht off wht lt gry mott f sli med xln, glky flky tr sub chiky pyritic, chrt wht tan shrp frsh opaqa, dolo and chrt AA

sst off wht lt gry clstrs, f grnd, sub rded/rded grns, w/srtd, w/cem, sub fria, mstly tite packed clstrs tr glau, NS

sst off wht lt gry clstrs, f grnd, sub rded/rded grns, w/srtd, w/cem, sub fria, mstly tite, tr min fill, pyritic in prt

sst lt gry off wht and clr clstrs, fn grnd, sub rded, tr sub ang grns, w/srtd, fairly cem, sub fria, silic cem, tr min fill,

sst wht off wht clr clstrs, f grnd, sub rded, w/srtd, fair to w/cem, tr fria, mstly sub fria tite, tr pyritic, tr glau, tr clay fill

sst clr lt gry clstrs, f grnd, sub ang grns, tr ang grns, bec prly srtd, fair to w/cem sub fria to tite, min fill, blk flky dead stain, clay inclu, tr min fill, pyritic,

sst tan lt brn dolo in prt, f grnd sub ang tr sub rded grns, fair to prly srtd, sub fria to tite, flky grsy stain, min fill, tr pyritic, tr clay fill

sst tan lt brn dolo in prt f grnd sub ang sub rded grns, prly srtd, fair to w/cem blkny, sli sucr text, flky dead blk stain, NSFO, nodor

shl gry dkr gry, gry drk green wxy grsy, lt green/teal green, glau, snd grn inclu

shl teal green silty, fnly gritty, glau, sndy gritty in prt, snd gry inclu, pyritic in prt

shl teal green, slick wxy grsy, snd grn inclu, glau,

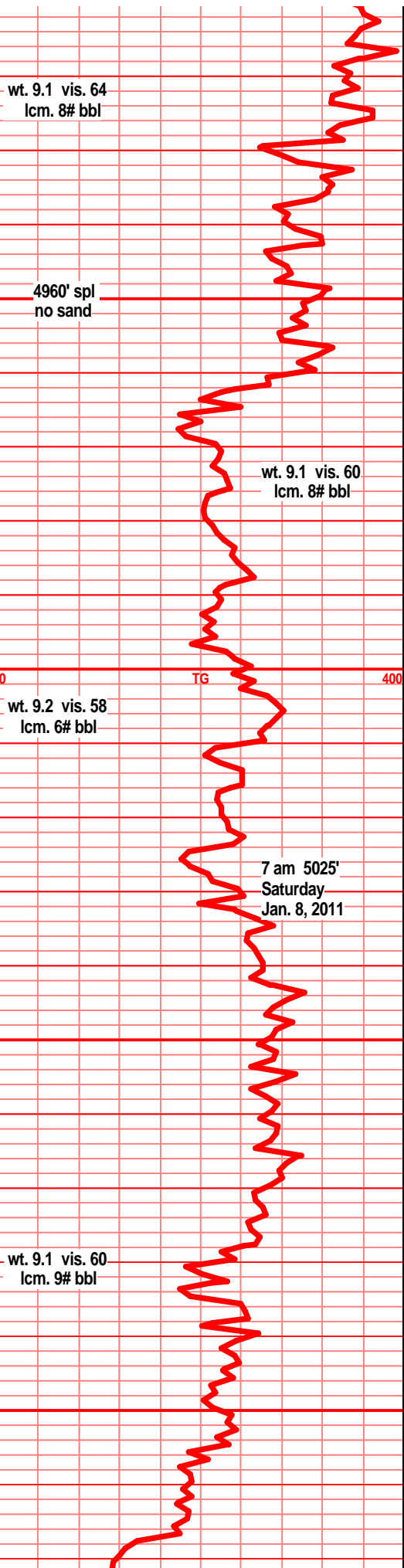
shl teal green wxy grsy, sndy in prt, sst green f grnd ang grns, clay fill, glau fill

shl teal green, drk gry/green slick wxy, snd grn inclu, sst drk green f grnd ang grnd clay fill, v/glau

shl gry drk gry/green teal green sndy gritty in prt,

sst clr lt gry clstrs, f grnd sub ang grns, prly srtd, v/well cem, silic cem, sub fria/tite min fill NS, dol lt gry drk tan f xln, sndy, bky ang pcs, silic in prt, blk min fill

dolo lt gry tan drk tan f xln gran blkny ang tr



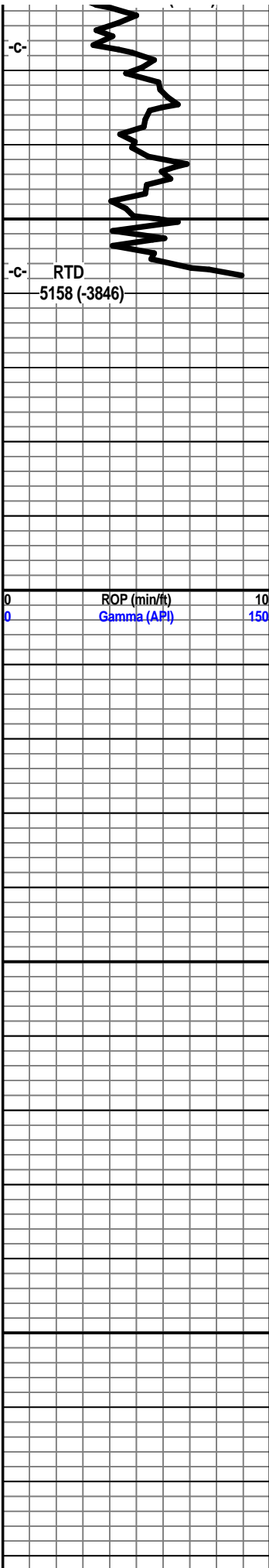
wt. 9.1 vis. 60 lcm. 8# bbl

4960' spl no sand

wt. 9.2 vis. 58 lcm. 6# bbl

7 am 5025' Saturday Jan. 8, 2011

wt. 9.1 vis. 60 lcm. 9# bbl



5150

5200

5250

5300

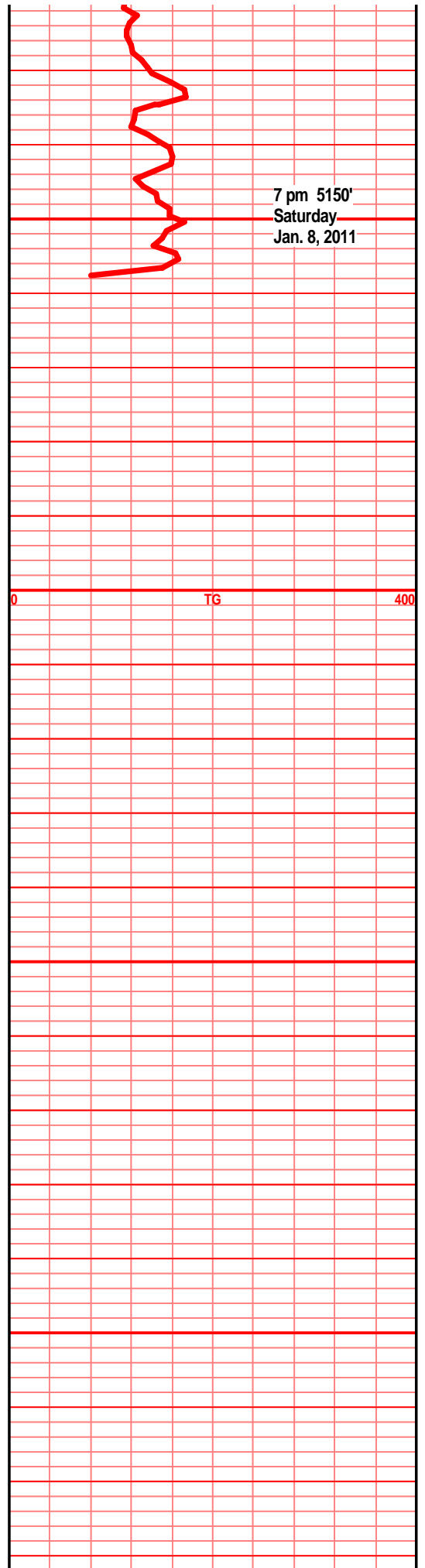


dolo lt gry tan drk tan f xln gran blkly dns
sucr text, mstly dns, tr snd grn inclu, tr small
rhom xln text

dolo lt gry, tan drk tan f vf xln gran blkly dns
ang hrd, inter xln por, tr gran sucr text, tr foss
inclu, tr small rhom xln text

dolo lt gry tan and drk tan f vf lxn gran ang
blkly dns tr rhom xln text, tr sucr text, silic in
prt, tr foss inclu

dolo lt gry/tan, tr drk tan f vf lxn dn shrd blkly
mstly dns, tr inter xln por, tr rhom xln text, tr
snd grn inclu,



7 pm 5150'
Saturday
Jan. 8, 2011

0 TG 400

