



Woolsey Operating Company, LLC

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

Well Name: Cantrell #1
Location: Approx NW SE SE SW
License Number: 15-077-21690 Region: Harper Co, KS
Spud Date: October 9, 2010 Drilling Completed:
Surface Coordinates: 350' FSL & 2080' FEL Sec 23 Twp34S-Rge 9W
Field: Hibbard
Bottom Hole Coordinates: Verticle Hole

Ground Elevation (ft): 1279' K.B. Elevation (ft): 1290'
Logged Interval (ft): To Total Depth (ft): 5310'
Formation: Total Depth in Arbuckle
Type of Drilling Fluid: Chemical Displaced at 3180'

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 20" conductor to 42' w/4 yards grout. Ran 6 joints of new 10 3/4" X 28# casing to 235' KB w/230 sx, 2% gel, 3% cc. Cement did circulate.

Production Casing: 5 1/2"

Deviation Surveys: 1/4 at 235', 1/4 at 1217', 1/4 at 1713', 1/2 at 2710', 1/2 at 3243', 1/2 at 3743', 1/2 at 4276', 1/2 at 4610', 1/2 at 5310'

Pipe Strap @ 4610', Board: 4619.95, Strap: 4622.40'. 2.45' long

Duke Drilling Rig 10 Bit Record:

#1 14 3/4" HTC RR in at GL, out at 235'

#2 7 7/8" Varrel HE-29 in at 235' out at

Gas Detector: Woolsey Operating Co.

Mud System: Mud Co. Brad Bortz, Aaron Rush, Engineers

DSTs: Trilobite Testing Inc. Jake Rahrenbruch, Justin Mayes, Testers

OH Logs: Dual Induction Laterolog-Micro Log w/SP, CNL-FDC w/PE GR & Caliper. Full Wave Sonic w/GR

DSTs

DST #1 Mississippi. 4580'-4610'. 30"-60"-60"-120", FB, BOB in 15" into IFP, SB BOB 5" into FFP. Rec: 1129' GIP, 45' SO&GCM (2% Oil, 2% Gas, 96% Mud). IHP 2261, IFP 71-55, ISIP 1085, FFP 70-48, FSIP 1432, FHP 2229. BHT 134.

DST #2 Mississippi, 4612'-4644'. 30"-60"-60"-120", FB BOB in 15" into IFP, SB immediately into FFP. Rec: 1000' GIP, 95' SO&GCM (2% Oil, 2% Gas, 96% Mud). IHP 2240, IFP 58-48, ISIP 1677, FFP 105-90, FSIP 1768, FHP 2298. BHT 130.

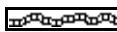
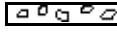
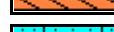
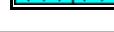
DST #3 Mississippi, 4646'-4670'. 30"-60"-60"-120", Fair 6' blow on IFP, BOB in 28 minutes of FFP. Rec: 460' GIP, 50' SOCM (7% Oil, 93% Mud), Clean oil in tool. IHP 2304, IFP 25-25, ISIP 826, FFP 22-30, FSIP 1330, FHP 2272. BHT 130.

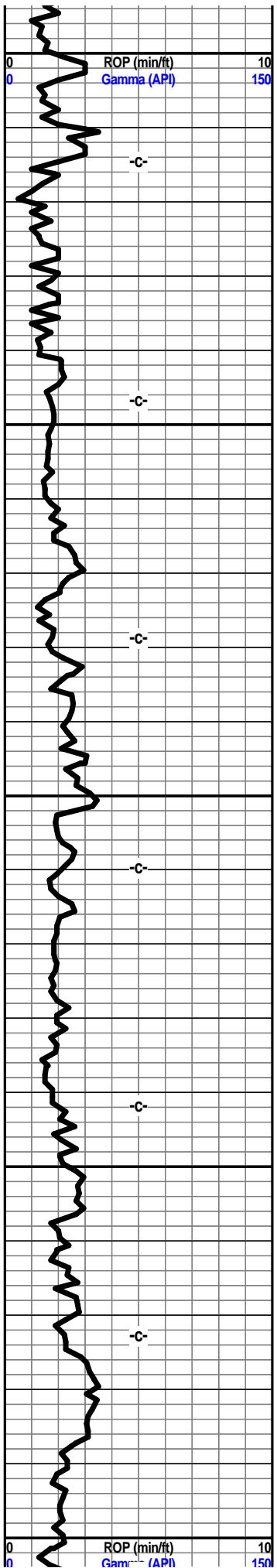
DST #4 Simpson, 5036'-5060'. 30"-60"-60"-120", Weak blow died. Rec: 7' Mud. IHP 2537, IFP 45-37, ISIP 88, FFP 46-36, FSIP 65, FHP 2481. BHT 134.

CREWS

Joe Livingston, Tool Pusher (Semi-Retired)
Lyle Cason, Relief
Scott Edwards, Days
Colby Crawford, Evening
Alex Ordonez, Mornings

ROCK TYPES

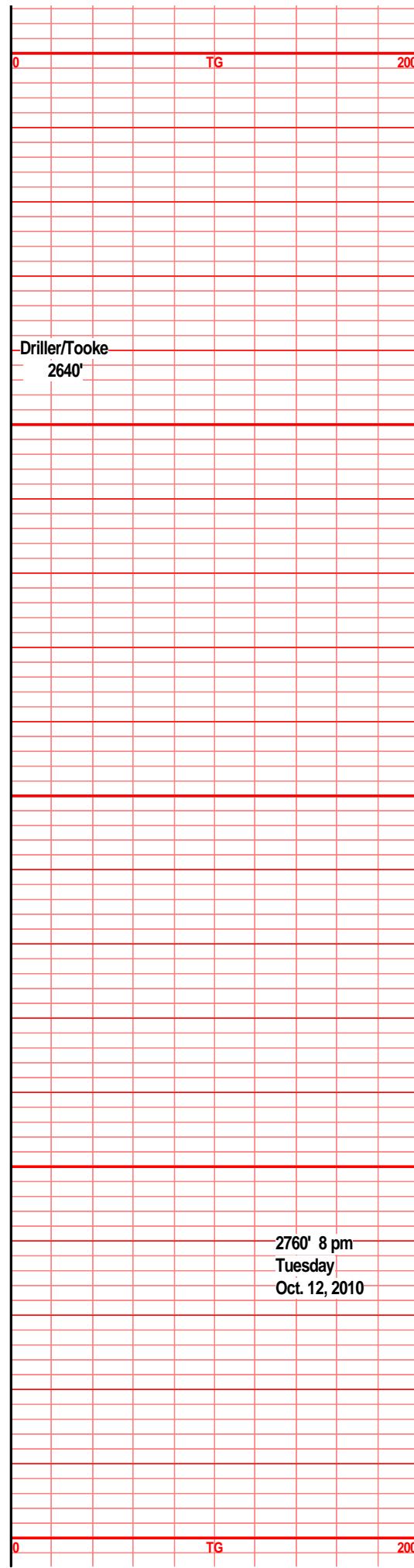
	Anhy		Congl		Lmst		Black sh
	Bent		Sdy dolo		Mrlst		Gry sh
	Brec		Shy dolo		Salt		Shale
	Cht		Dol		Shltst		Shysltst
	Clyst		Gyp		Sltst		Sitysh
	Coal		Sdy lmst		Ss		

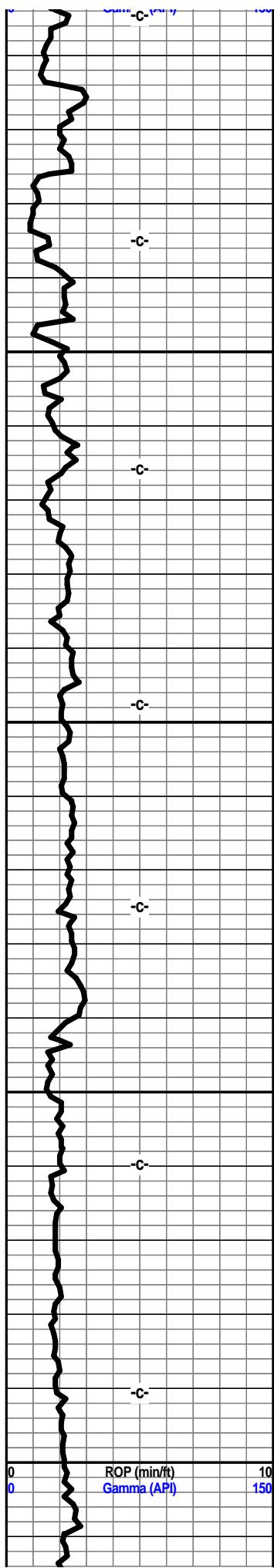


KC 'Dennis'
Stark
KC 'Swope'
Hushpuckney
KC 'Hertha'
B/Kansas City
Pawnee
Cherokee Grp
Mississippi
Compton
Kinderhook
Woodford
Misener
Viola
Simpson Grp
Wilcox
McLish Shl
McLish Sd
Arbuckle
LTD

Daily 7 am Activity

October 8, 2010 MIRT
October 9, 2010 Spud
October 10, 2010 Drilling at 692'
October 11, 2010 Drilling at 1749'
October 12, 2010 Drilling at 2407'
October 13, 2010 Drilling at 3060'
October 14, 2010 Drilling at 3626'
October 15, 2010 Drilling at 4064'
October 16, 2010 Drilling at 4419'
October 17, 2010 DST #1 at 4610'
October 18, 2010 DST #2 at 4644'
October 19, 2010 DST #3 at 4670'
October 20, 2010 Drilling at 4830'
October 21, 2010 Drilling at 4948'
October 22, 2010 CFS at 5220'



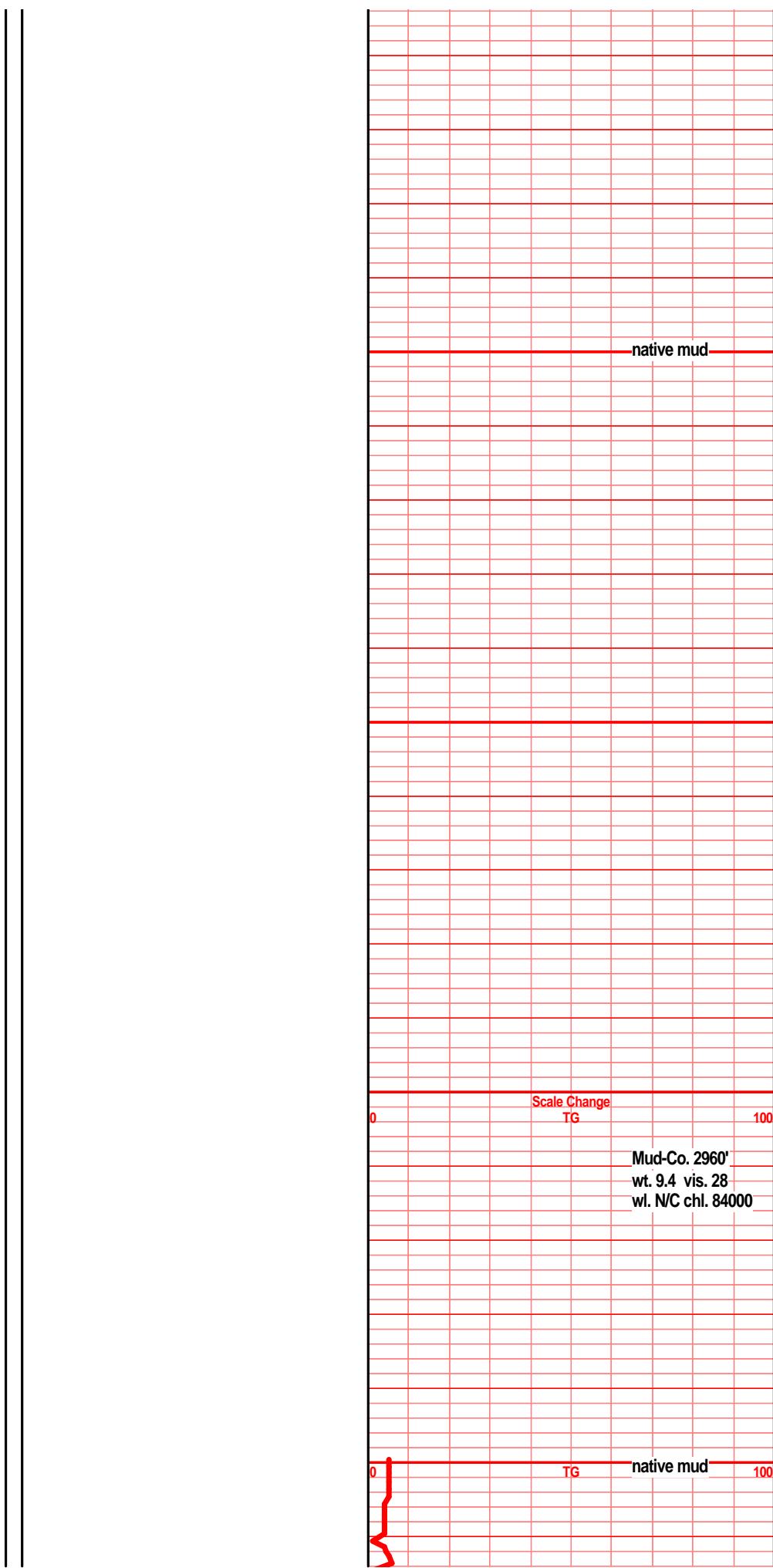


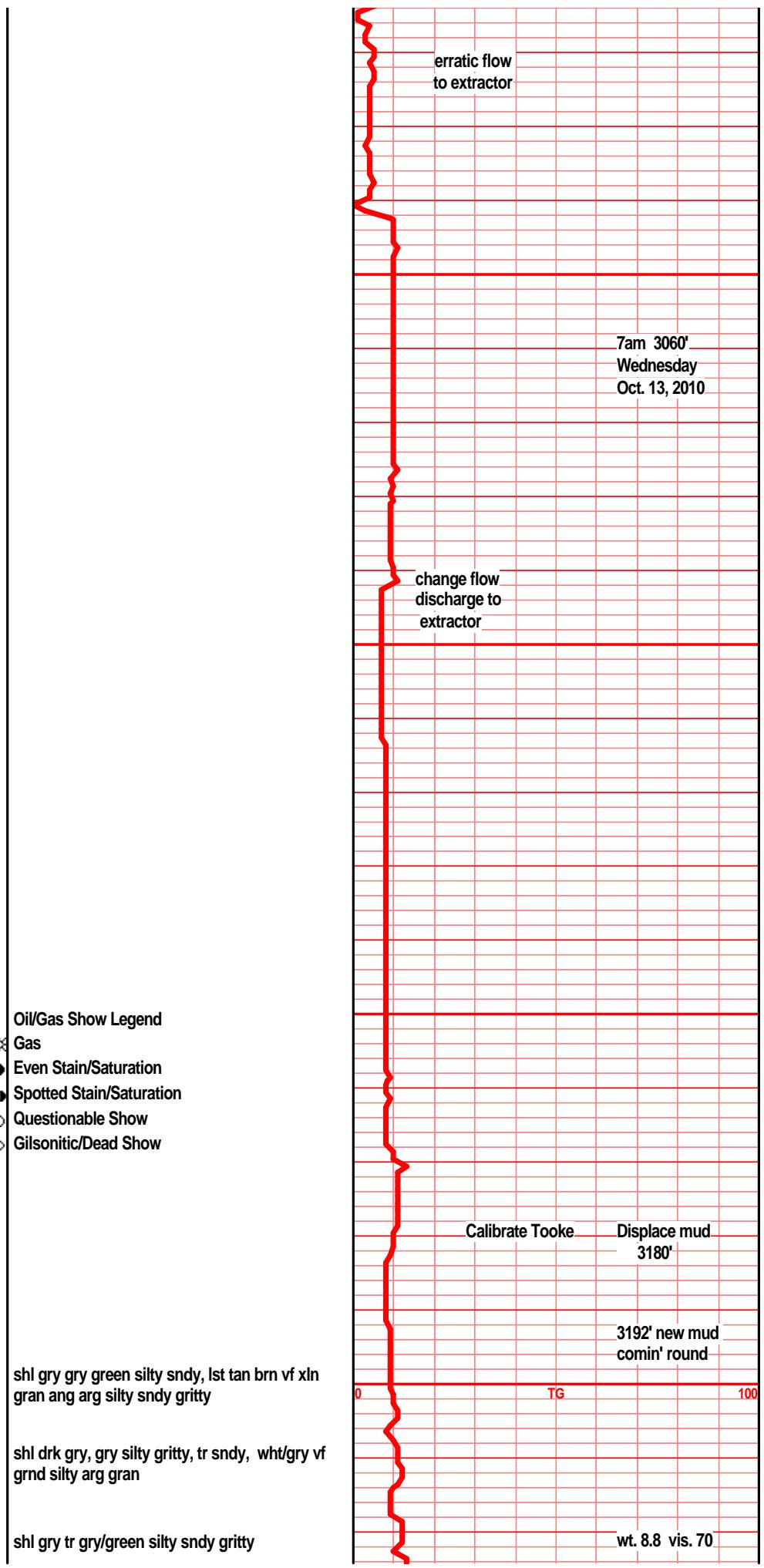
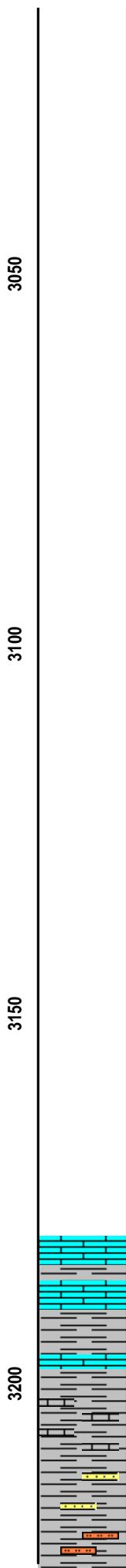
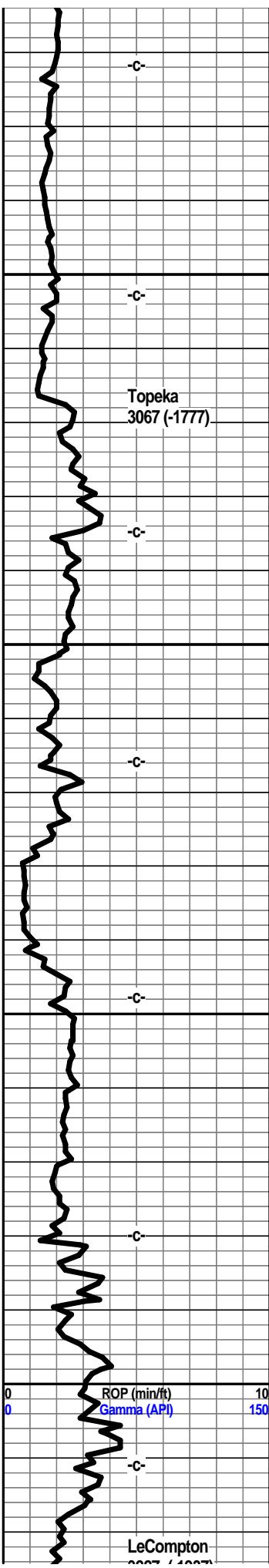
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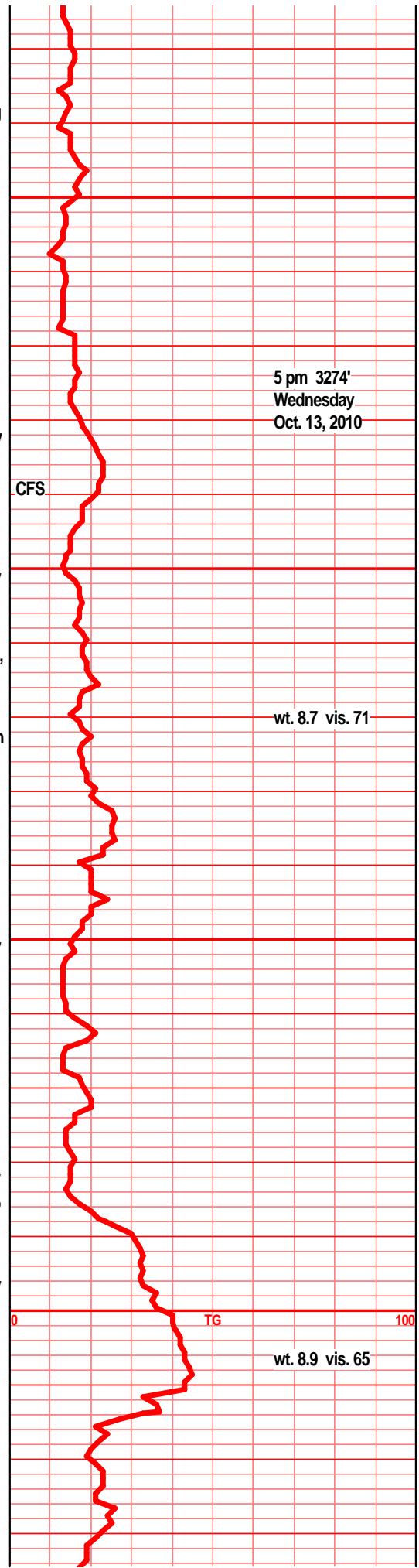
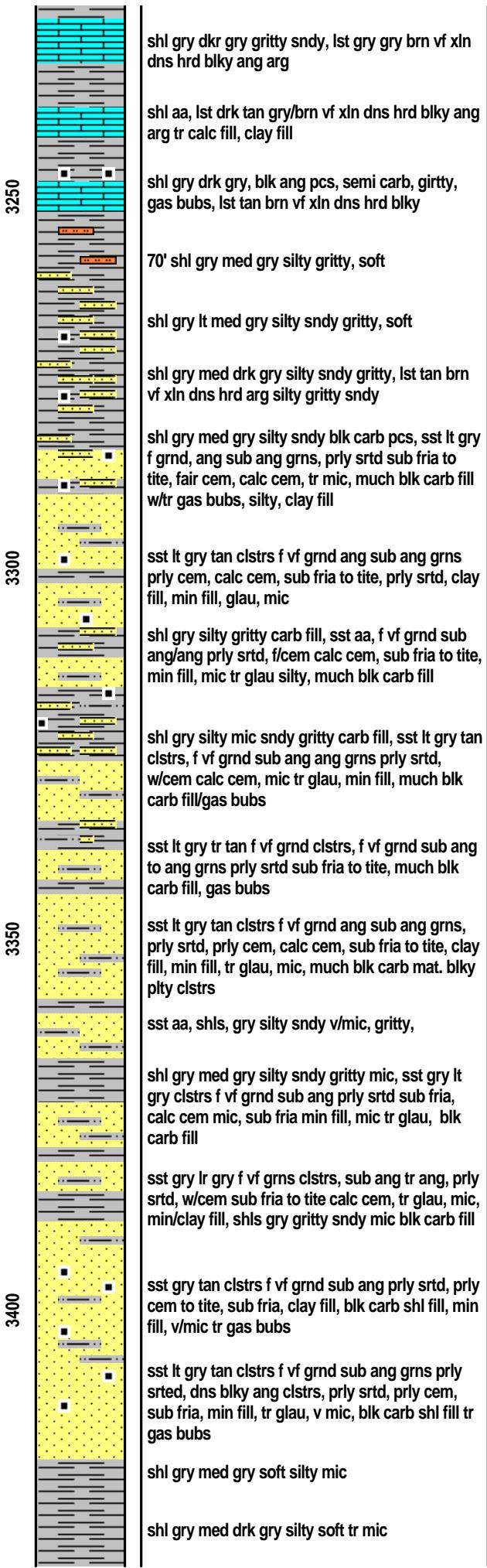
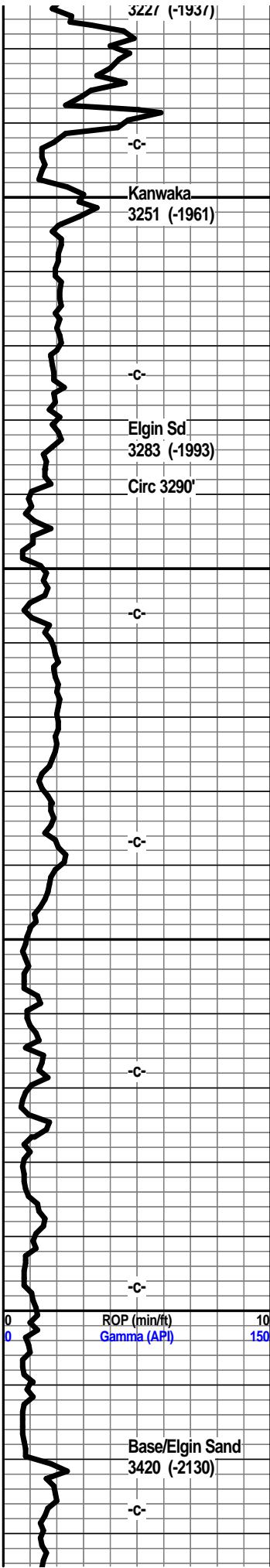
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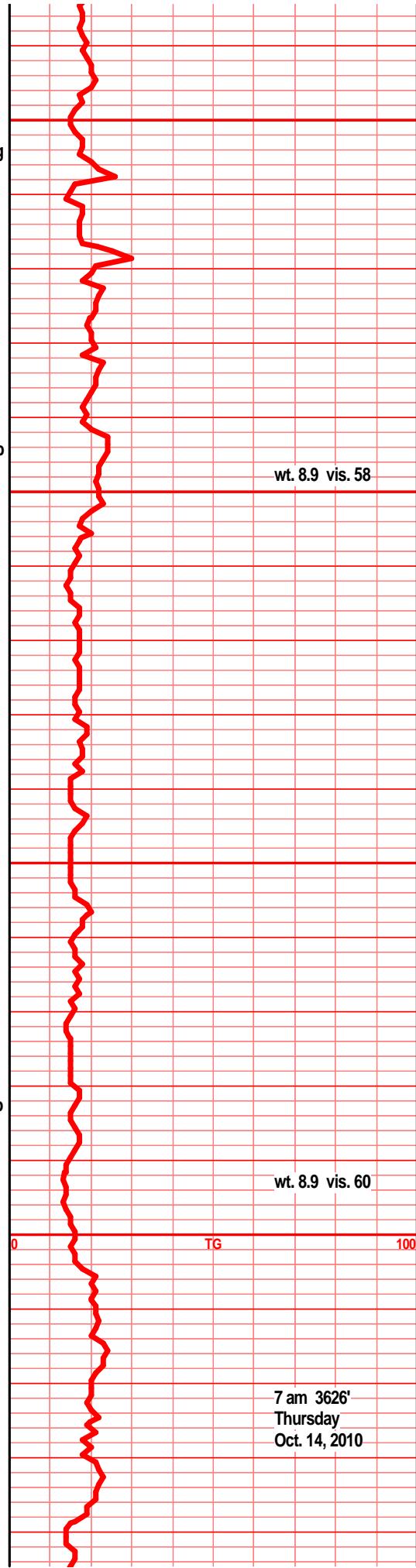
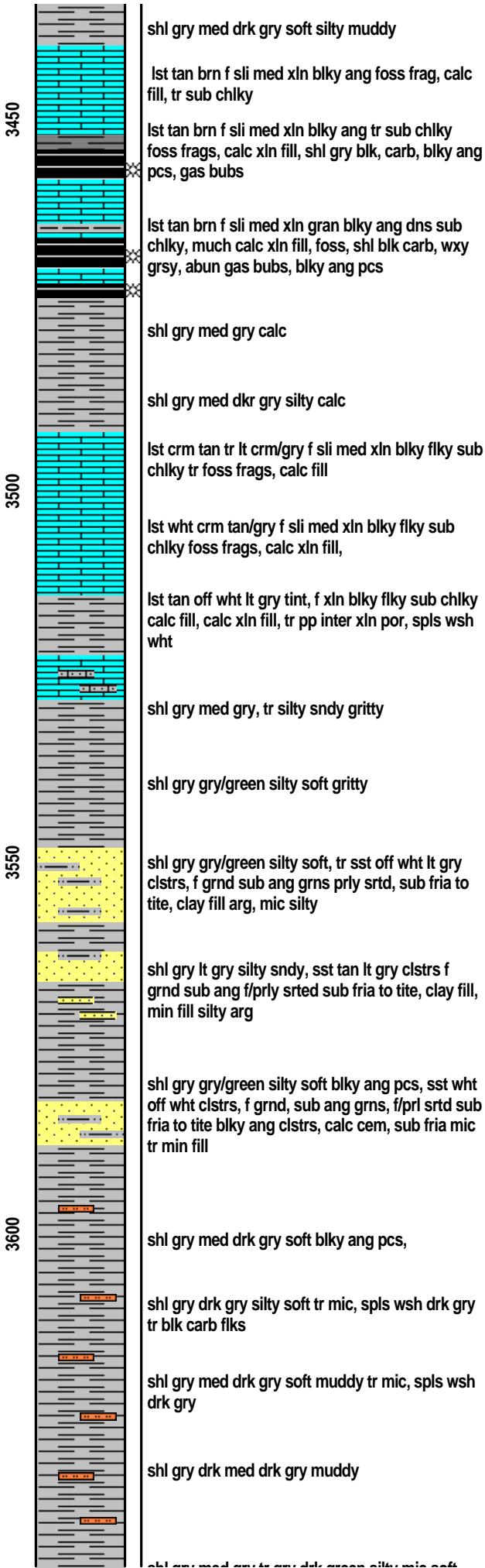
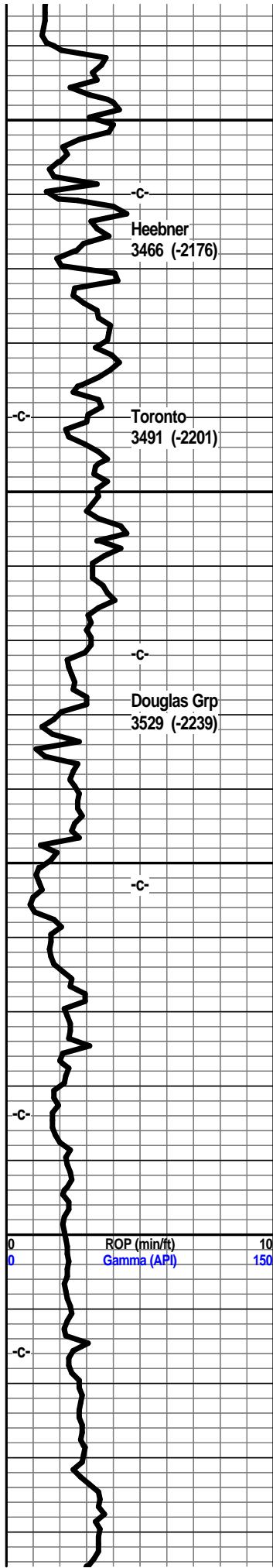
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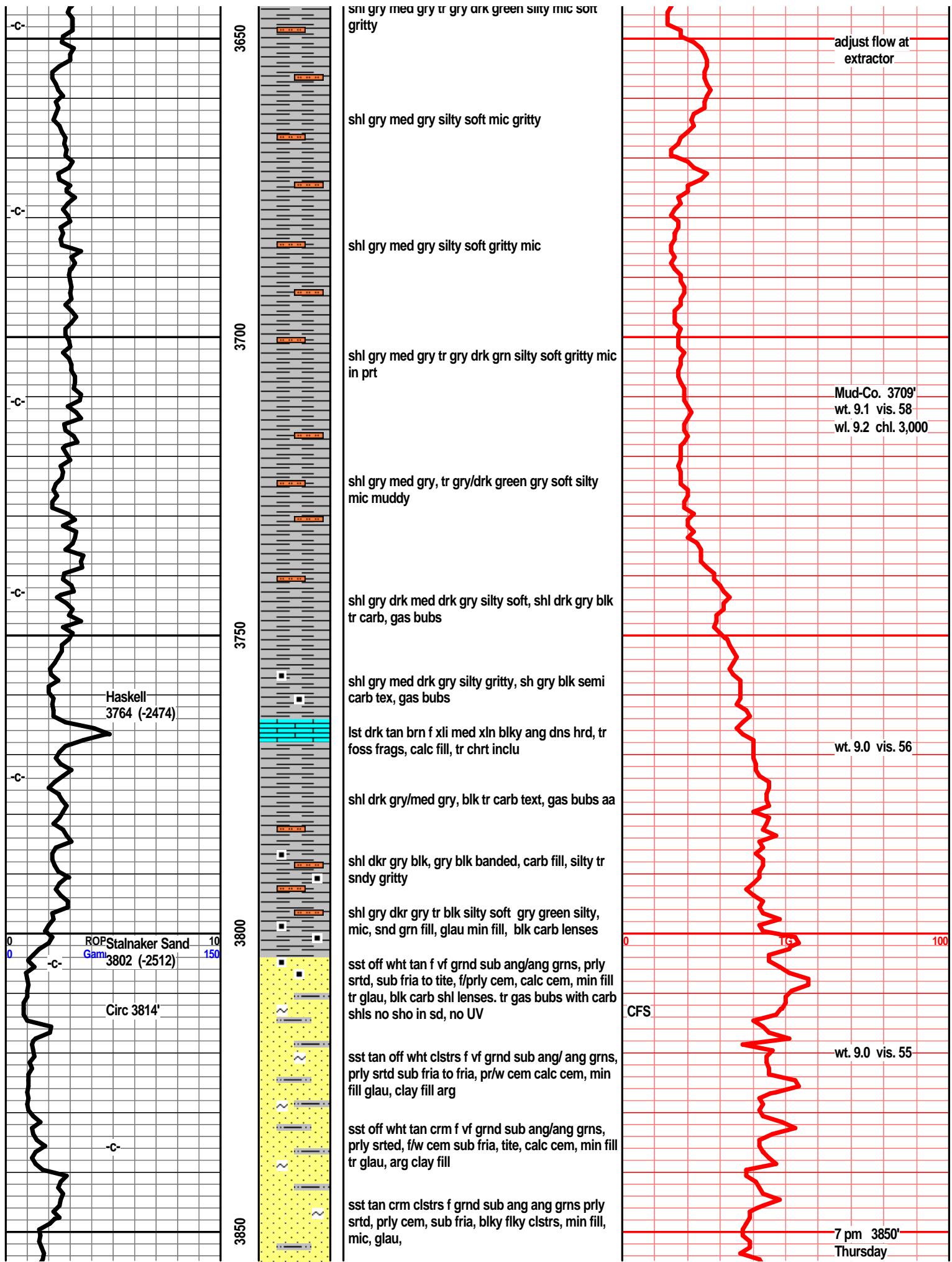
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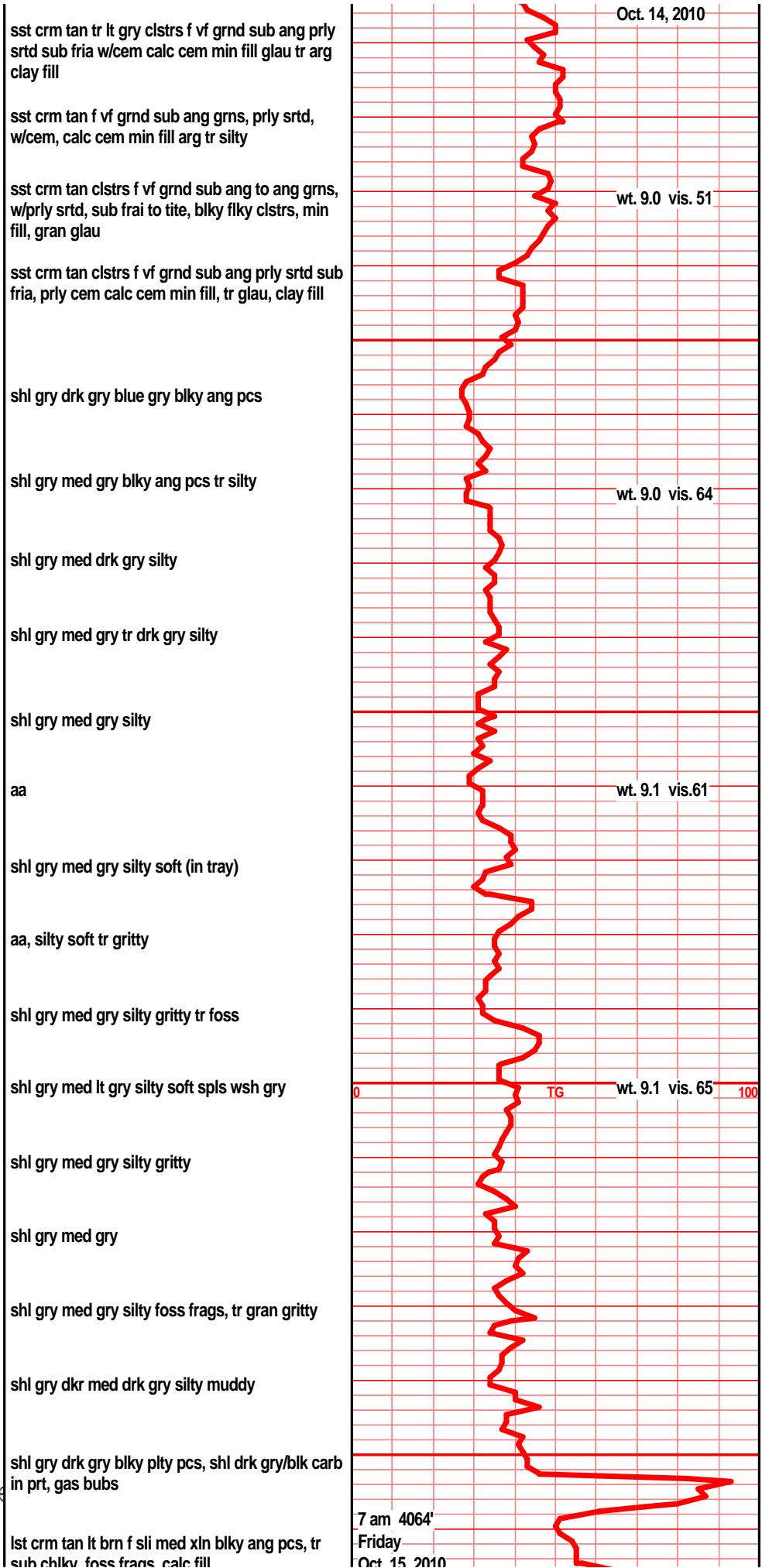
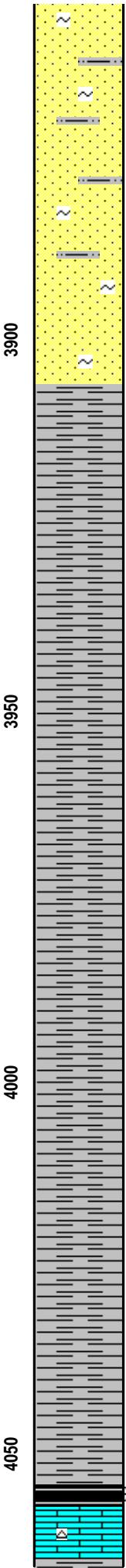
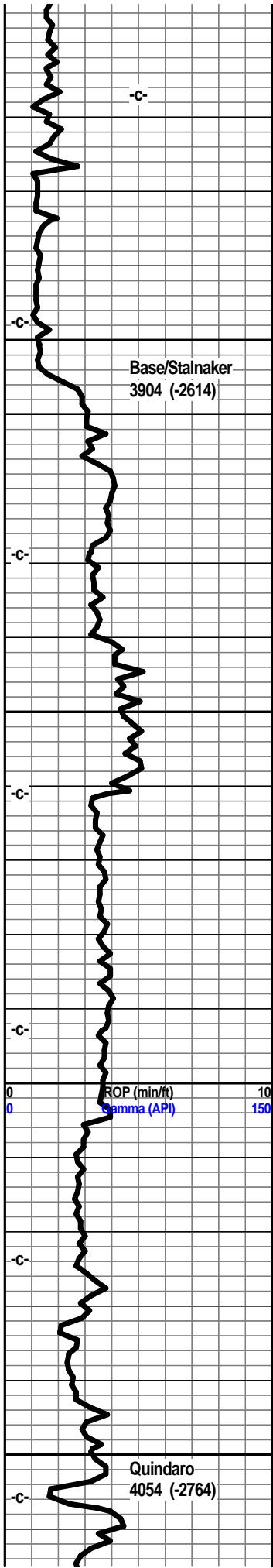


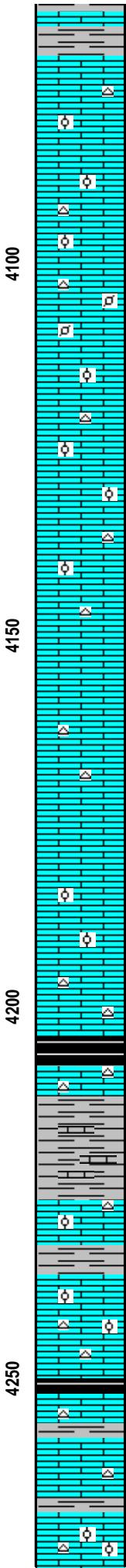
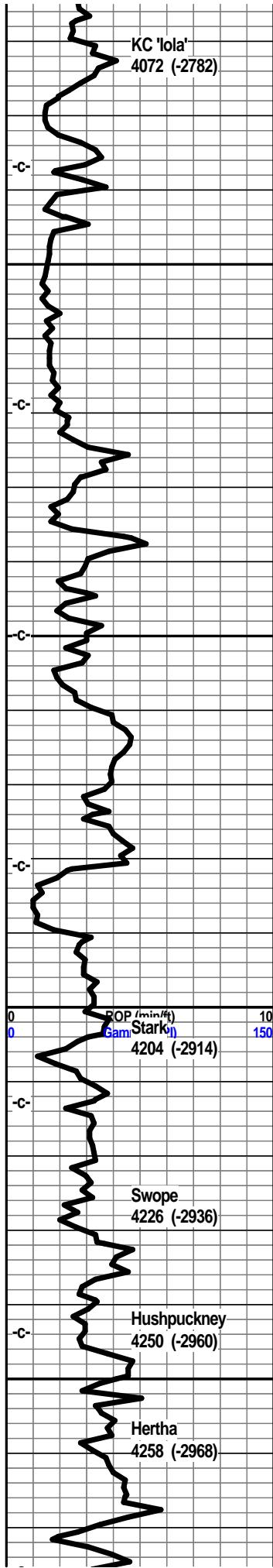












Swope, 1055 trags, calc ill

1st crm tan tr lt brn f xln soft gran v/chlk, foss frags, tr foss ool, shl gry/brn calc, foss inclu

1st crm wth tan f xln blky ang gran sub chlk tr foss frags, foss ool, calc xln fill

1st crm wth tan f sli med xln flky sub chlk foss frags foss ool, tr chrt wth shrp opaq

1st crm off wth tan f sli med xln flky sub chlk gran calc fill in prt, foss frags, foss ool, pelletal in prt, chrt wth lt gry shrp frsh opaq

1st crm tan off wth f sli med xln gran flky sub chlk foss frags, pelletal, tr calc xln fill, chrt wth shrp frsh opaq

aa

1st wth crm tan f xln blky ang dns hrd sub chlk foss frags foss ool, pelletal, chrt wth shrp frsh opaq

1st tan crm wth f sli med xln flky sub chlk calc fill, foss frags, pelletal/ool chrt wth gry shrp frsh opaq

1st tan crm wth f xln blky flky sub chlk foss frags, foss ool, chrt wth tan shrp frsh opaq tr calc xln fill

1st crm buff tan f xln blky gran sub chlk /soft foss frags calc fill, chrt tan lt brn shrp frsh

1st tan buff f xln blky sub chlk dns foss frags, foss ool, chrt wth tan shrp frsh

1st crm tan off wth f xln gran sub chlk soft calc fill foss frags, foss ool/pelletal

1st tan crm f vf xln dns hrd blky tr chlk tr foss frags chrt tan lt gry shrp frsh

shl gry drk gry blk carb, gas bubs, 1st crm tan lt brn f vf xln dns hrd blky foss frags, foss ool, pelletal, chrt tan brn shrp frsh foss calc xln fill

Ist aa, shl gry brn calc, foss inclu

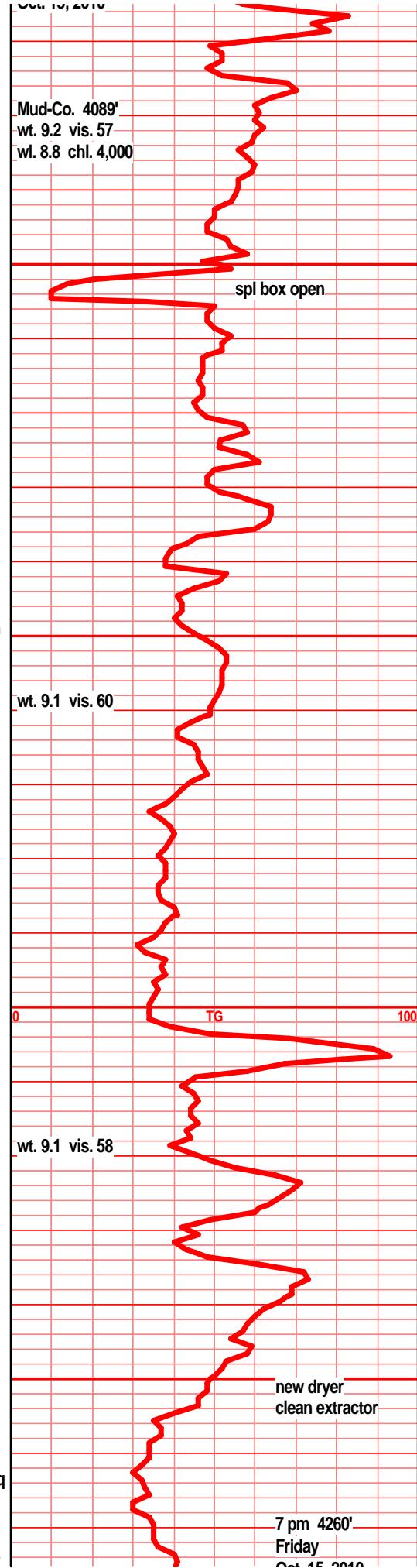
shl gry brn blue gry, 1st tan brn f med xln blky ang crs xln fill, foss frags, arg tr inter xln por, chrt tan brn shrp frsh tr dead blk stain, nodor, nsfo

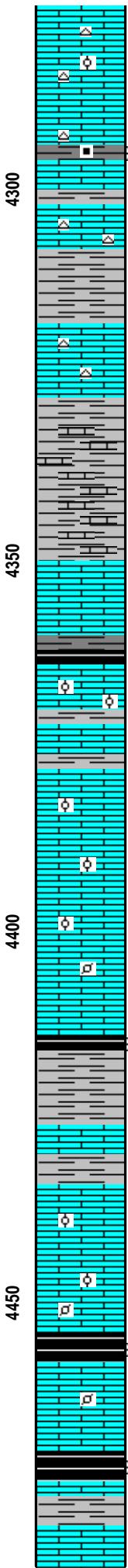
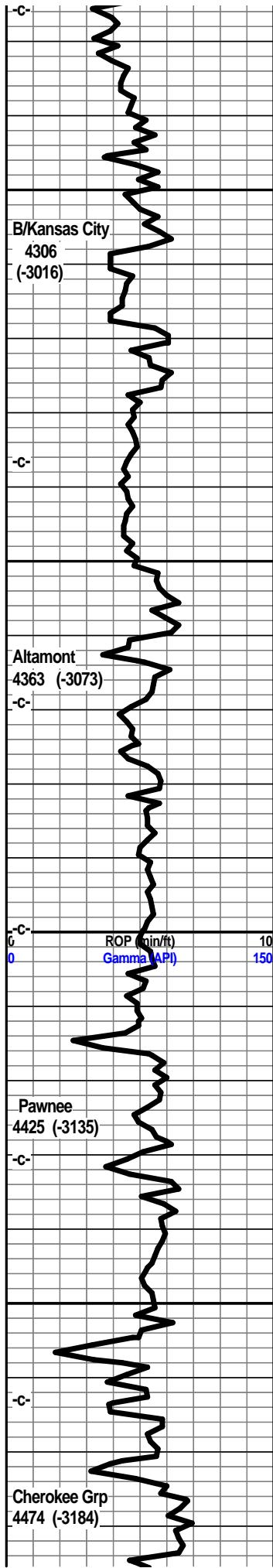
1st crm tan lt brn f xln flky sub chlk to chlk, blky ang pcs, foss frags, tr ool, tr inter xln por, mstly soft, sli odor, SSFO, tr gas bubs

tr blk carb shl, 1st tan crm lt brn f vf xln dns hrd blky sub chlk foss frags, gran calc fill

1st crm tan lt brn f vf xln sub chlk to chlk gran soft tr calc xln fill tr foss frags, chrt wth tan opaq

1st crm tan buff f vf xln blky ang dns hrd sub chlk foss frags, chrt crm wth frsh foss opaq pp





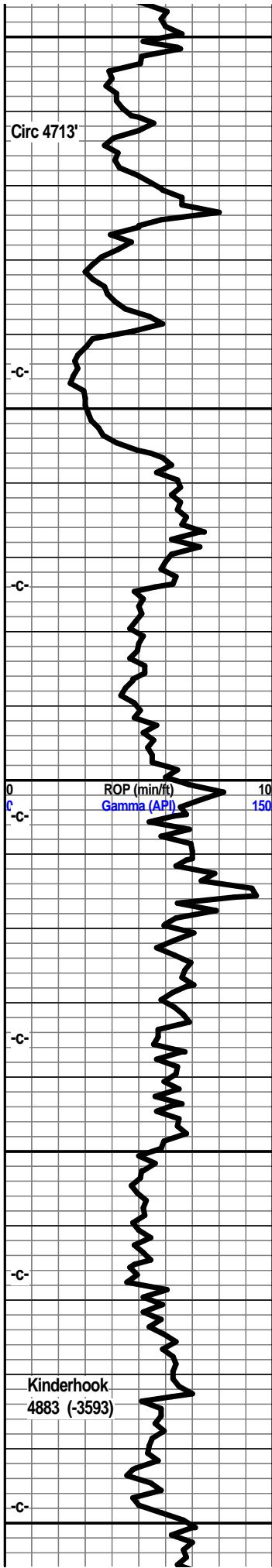
OCT. 15, 2010

wt. 9.1 vis. 55

0 100 TG

7 am 4419'
Saturday
Oct. 16, 2010

Mud-Co. 4431'
wt. 9.3 vis. 53
wl. 10.8 chl. 6,000



dolo tan, tan gray mott, lt gray f xln blky ang
 pcs, inter xln por, sub chlky/soft silty in prt, tr
 brn stain gas bubs, chrt tan gray mott, shrp frsh
 foss, frac por, gas bubs, nodor

 dolo silty dolo lt gray gray, tr tan gray mott f vf xln
 blky ang sub gran soft tr sub chlky, chrt gray lt
 gray gray mott foss frags, opaq shrp frsh frac por

 dolo silty dolo, tan gray mott to gray chlky ang
 arg, tr soft gran sub chlky, chrt gray shrp frsh
 foss, dolo edge, tr brn stain nodor NSFO/Gas

 chlky silty dolo, gray, gray lt gray mott vf xln gran
 blky pcs, silic silty text, chrt gray opaq shrp foss
 frags, tr drk brn stain nodor NSFO

 dolo, gray tan mott, gray silty vf xln gran blky ang
 hrd chlky, chrt tan gray shrp frsh blky opaq foss,
 silty dolo edge

 tan gray/med gray silty dolo chrt, blky ang hrd
 chlky pcs, opaq foss frags, silty dolo gray vf xln
 gran hrd blky tr sub gran

 silty chlky dolo aa, tan gray med gray, vf xln gran
 sub gran silty arg silic text, chrt gray shrp frsh
 opaq foss silty dolo edge

 dolo, silty chlky gray med gray vf xln sub gran silty
 silic text, hrd ang blky chlky, chrt gray med gray
 mott, foss frsh opaq

 silty chlky dolo med gray gray/tan mott, vf xln gran
 silic text, tr sny gritty text, chrt tan/med gray
 mott, shrp frsh opaq foss frags

 silty chlky dolo tan gray med gray mott f xln gran
 silic text chrt tan gray shrp frsh opaq foss inclu

 dolo, silty dolo, gray med gray tr gray tan mott vf xln
 silty gran silic text, gran soft in prt, chlky, chrt
 gray med gray shrp frsh foss

 dolo silty gritty gran tr f xln blky ang arg, gray
 silty dolo shls, chrt drk gray shrp frsh

 dolo gray gray tan mott silty gritty gran tr silic text
 blky dns arg, chrt tan gray shrp frsh foss, silty
 dolo edge

 shl gray silty dolo, silty dolo gray med gray gritty
 gran arg tr vf xln chlky, chlky dull gray shrp frsh
 opaq

 silty shly gritty gran tr silic text dolo, chrt gray
 dull gray shrp frsh opaq

 gray med gray silty dolo, tr silic text, gritty gran,
 soft arg, chrt aa gray shrp frsh foss

 shl gray grnish gray, drk gray silty gritty

 shl gray, try gray/grey green silty gritty

 shl gray meg gray green, silty gritty, pyritic in beds,
 tr blk, tr carb, tr gas bubs,

