



Woolsey Operating Company, LLC

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

Well Name: Ricke #3
Location: C W/2 NW
License Number: 15-007-23646 Region: Barber County, Kansas
Spud Date: February 8, 2011 Drilling Completed: February 22, 2011
Surface Coordinates: 1320' FNL & 660' FWL Section 5 Twp 35S-Rge 11W
Field: Stranathan
Bottom Hole Coordinates: Verticle Hole

Ground Elevation (ft): 1374' K.B. Elevation (ft): 1385'
Logged Interval (ft): Surface To: 5420' Total Depth (ft): 5420'
Formation: Total Depth in McLish Sand
Type of Drilling Fluid: Chemical Mud Displaced at 3372'

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: Ran 6 joints of 10 3/4" X 28# casing, set at 233' KB (tally 220') with 240 sx Class H, 2% gel, 3% cc. Plug down 2:30 am on 2/8/2011. Cement did circulate. Ran 20 joints of 8 5/8" X 23# new casing to 850' KB (tally 855') with 100 sx Class A, 2% gel, 3% cc.

Production Casing: 5 1/2"

Deviation Surveys: 1/4 at 235', 3/4 at 1501', 3/4 at 2029', 1/4 at 2498', 1/2 at 3498', 3/4 at 3995', 3/4 at 4527', 3/4 at 4824', 1 at 5420'

Pipe Strap @ 4824', Strap: 4813.38', Board: 4810.29', strap 3.09' long, no correction was made to the board.

Duke Drilling Rig 10 Bit Record:

#1 14 3/4" HTC RR in at 0', out at 235'. 235'/2.75 hours

#2 7 7/8" Varrel HE 29 in at 235', out at 4824'. 4589'/129 1/2 hrs

#3 7 7/8" Varrel HE 29 Re-tip in at 4824', out at 5420'

Gas Detector: Woolsey Operating Co. Gas Trailer #2

Mud System: Mud Co. Brad Bortz, Engineer

DSTs: Trilobite Testing Inc. Jake Fahrenbruch, Tester

OH Logs: Superior Well Service, Dual Induction Laterolog w/SP, CNL-FDC w/PE, GR & Caliper. Sonic w/GR. Jeff Luebbers Engineer.

DSTs

Note: 14" inch snow fall, very cold temps and gusty winds on surface time led to freeze up delays.

DST #1 Mississippi, 4664'-4824', 30"-60"-60"-120", SB BOB in 90 seconds, GTS during ISIP. Rec: 355' GCM (10%G 90%M), 260' HGSOCWM (25%G 5%O 20%W 50%M), 180' HGWCM (25%G 7%W 68%M), 90' GCSWCM (10%G 2%W 88%M). Rw .15 ohms @68 degrees. Chlorides: 53,000 ppm. IHP 2263, IFP 107-225, ISIP 1223, FFP 216-347, FSIP 1242, FHP 2236. BHT 123 degrees. Gas flow on FFP: 10" 13.6 MCF, 20" 17.7 MCF, 30" 21.2 MCF, 40" 22.2 MCF, 50" 23.7 MCF, 60" 24.8 MCF.

CREWS

Joe Livingston, Tool Pusher

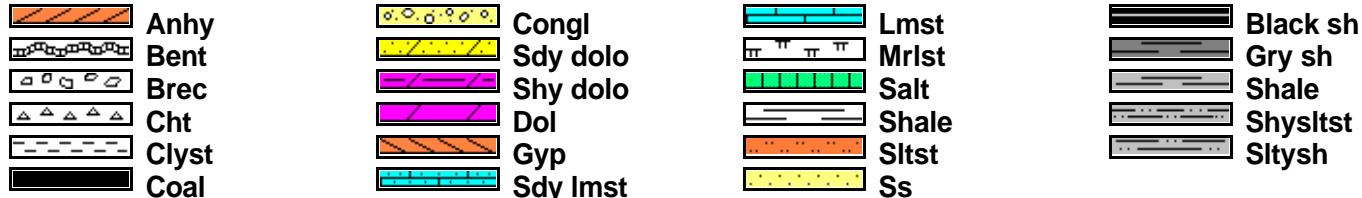
Scott Edwards, Days

Colby Crawford, Evening

Alex Ordonez, Morning

Ron Burns, Relief

ROCK TYPES



ACCESSORIES

MINERAL

<input type="checkbox"/>	Anhy
<input type="checkbox"/>	Arg
<input checked="" type="checkbox"/>	Bent
<input type="checkbox"/>	Bit
<input type="checkbox"/>	Brecfrag
<input type="checkbox"/>	Calc
<input type="checkbox"/>	Carb
<input type="checkbox"/>	Chtdk
<input type="checkbox"/>	Chtlt
<input type="checkbox"/>	Dol
<input type="checkbox"/>	Ferrpel
<input type="checkbox"/>	Ferr
<input type="checkbox"/>	Glau
<input type="checkbox"/>	Gyp
<input type="checkbox"/>	Marl
<input type="checkbox"/>	Nodule
<input type="checkbox"/>	Phos
<input type="checkbox"/>	Pyr
<input type="checkbox"/>	Salt
<input type="checkbox"/>	Sandy
<input type="checkbox"/>	Silt

 Chlorite
 Dol
 Sand
 Silt

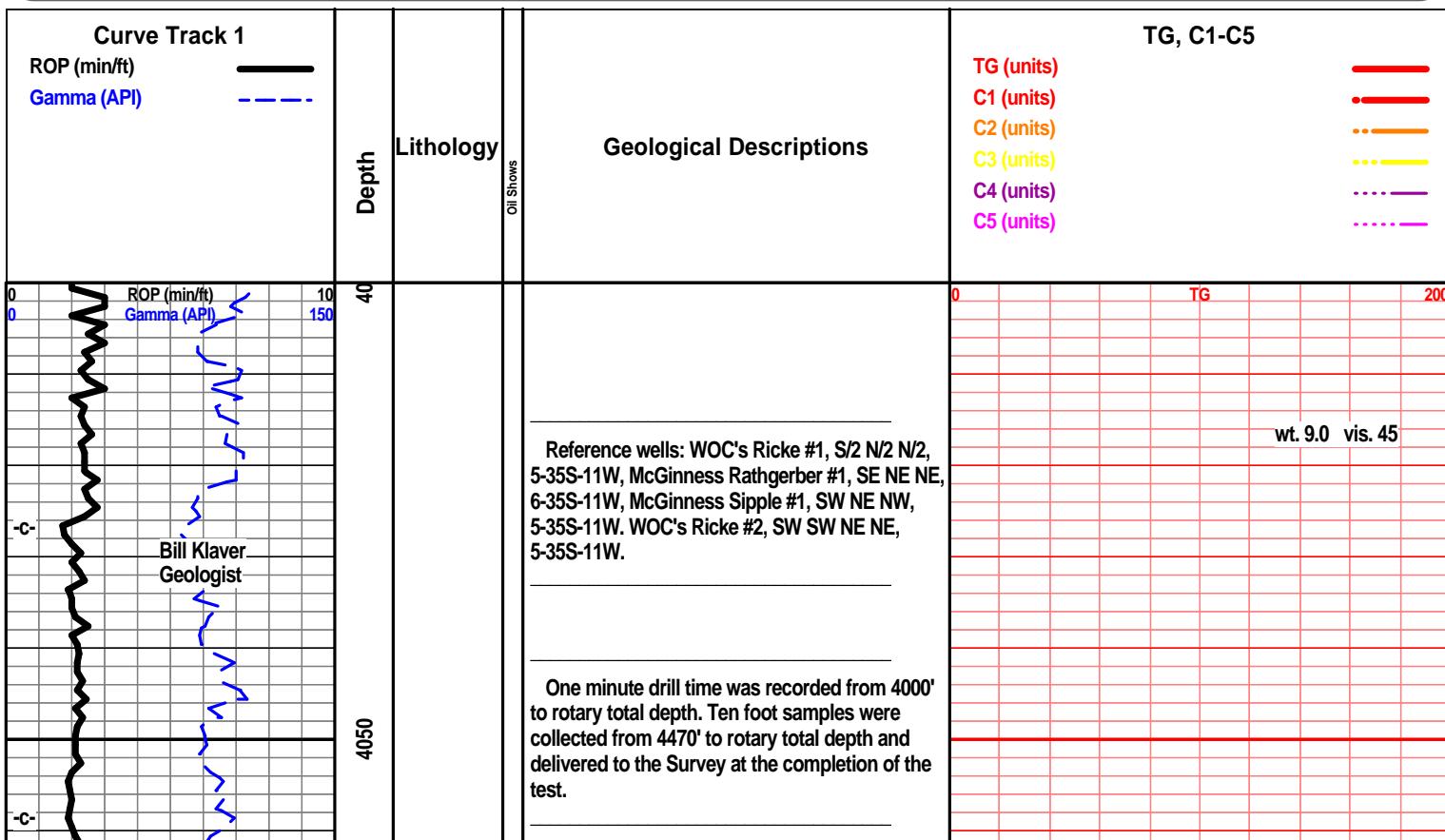
FOSSIL	
	Algae
	Amph
	Belm
	Bioclst
	Brach
	Bryozoa
	Cephal
	Coral
	Crin
	Echin
	Fish
	Foram
	Fossil
	Gastro
	Oolite
	Ostra

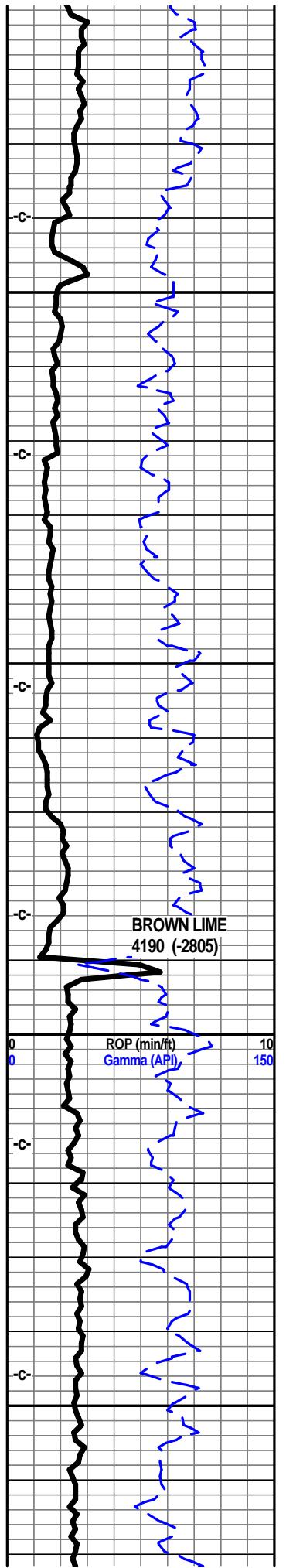
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomoldic

STRINGER
Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg
Carbsb
Clystn
Dol

 Grysh
 GrysIt
 Lms
 Sandylms
 Sh
 Ststn

TEXTURE	
BS	Boundst
C	Chalky
CX	Cryxln
B	Earthy
FX	Finexln
GS	Grainst
L	Lithogr
MX	Microxln
MS	Mudst
PS	Packst
WS	Wackest





4100

4150

4200

4250

7 am Drilling Progress:
 February 7, 2011 MIRT
 February 8, 2011 WOC, plug down 2 am
 February 9, 2011 235' SD-14" snow/cold
 February 10, 2011 235' SD for weather
 February 11, 2011 Start up, lose circ-
 February 12, 2011 Run 8 5/8" casing
 February 13, 2011 Drilling at 1180'
 February 14, 2011 Drilling at 1975'
 February 15, 2011 Drilling at 2591'
 February 16, 2011 Drilling at 3167'
 February 17, 2011 Drilling at 3825'
 February 18, 2011 Drilling at 4363'
 February 19, 2011 Drilling at 4678'
 February 20, 2011 DST #1 at 4824'
 February 21, 2011 Drilling at 5070'
 February 22, 2011 Drilling at 5353'
 February 23, 2011 E-logs out 4 am

E-Log Tops:

Herington
 Onaga
 Wabaunsee
 LeCompton
 Kanwaka
 Elgin Sand
 B/Elgin Sand
 Heebner
 Toronto
 Douglas Shale
 Brown Lime
 Stalnaker
 B/Stalnaker
 Quindaro
 KC 'F'
 KC 'Iola'
 KC 'Drum'
 KC 'Dennis'
 Stark
 KC 'Swope'
 Hushpuckney
 KC 'Hertha'
 B/Kansas City
 Pawnee
 Cherokee Grp
 Mississippi
 C3
 C2A
 C2
 C1
 Compton
 Kinderhook
 Woodford
 Misener
 Viola
 Simpson Grp
 Wilcox Sand
 McLish Shale
 McLish Sand
 LTD

wt. 9.0 vis. 44

wt. 9.0 vis. 43

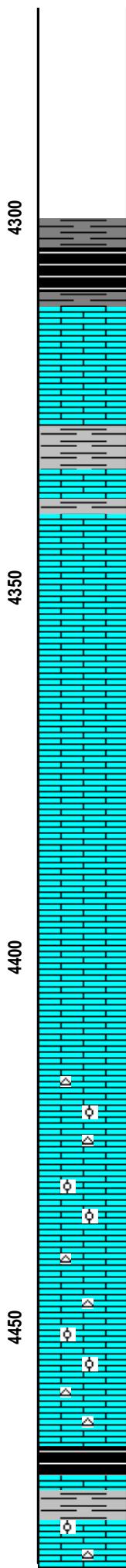
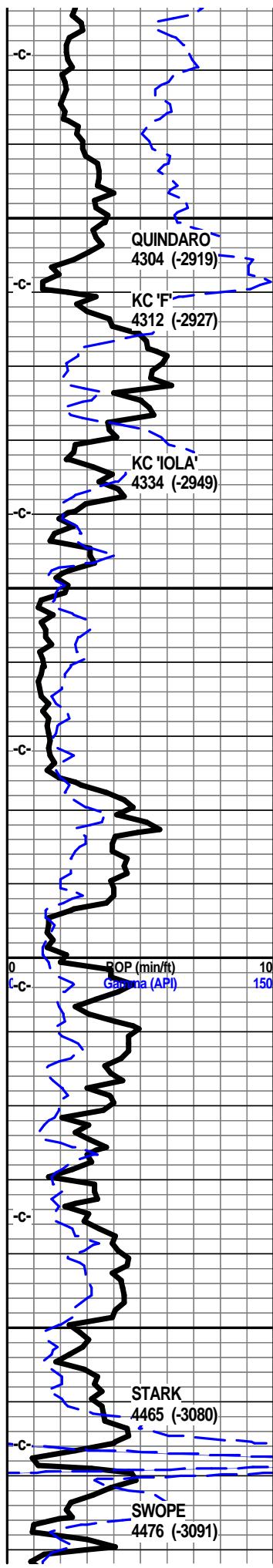
8 pm 4130'
 Thursday
 Feb. 17, 2011

wt. 9.0 vis. 52

0 TG 200

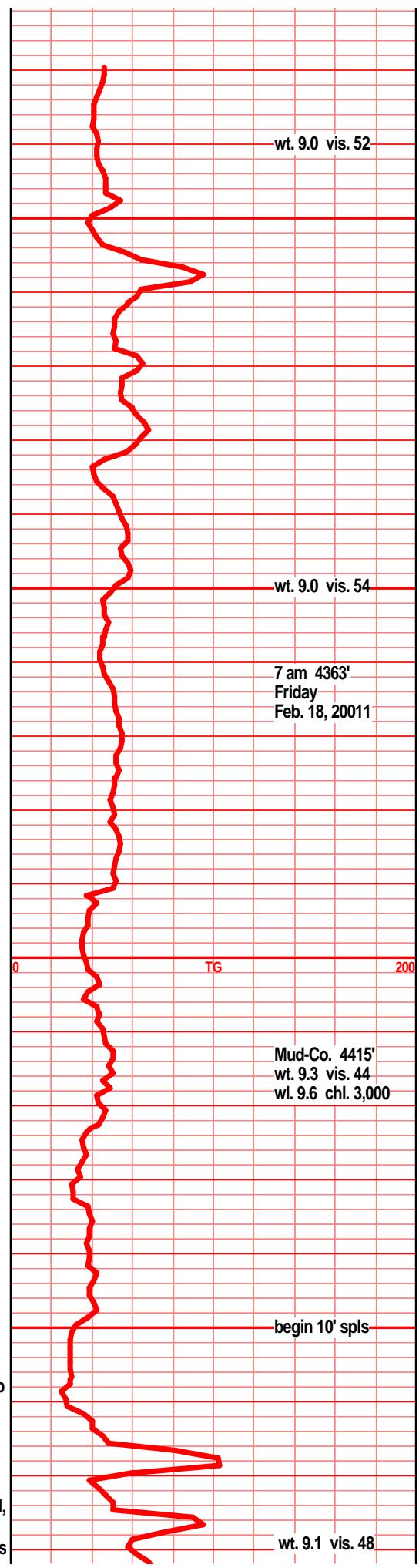
wt. 9.0 vis. 52

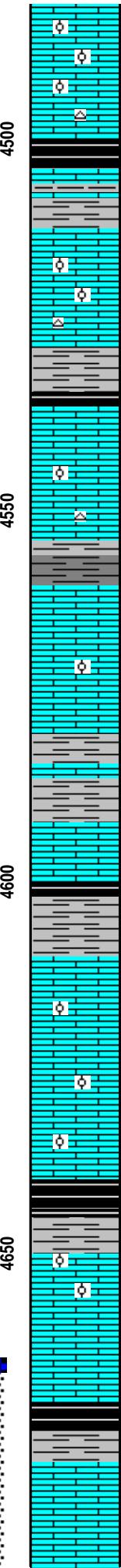
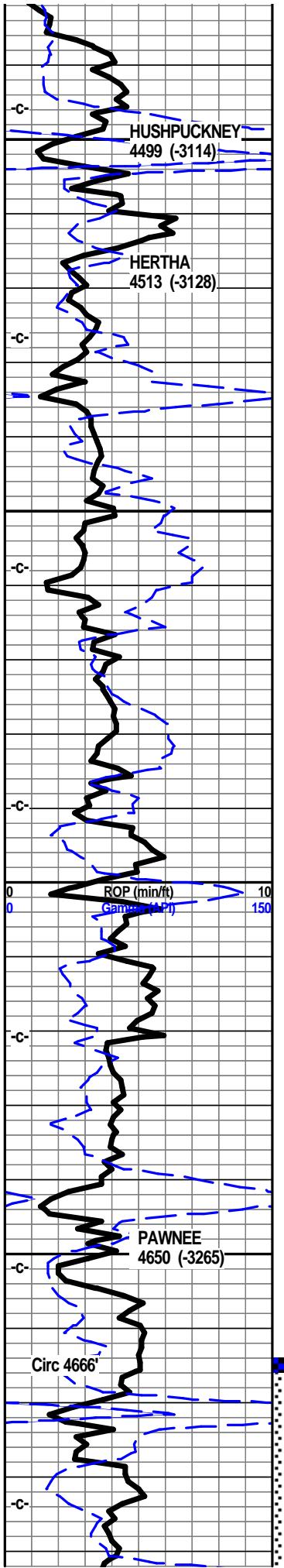
Scale Change
 TG 200



Oil and Gas Show Legend

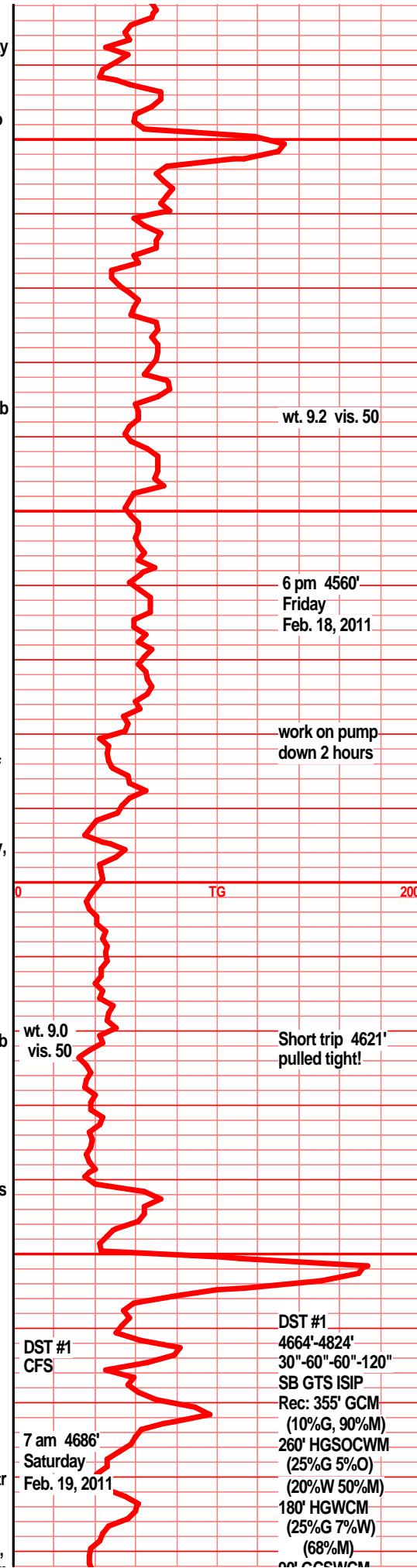
- Gas Show
- Even Stain/Saturation
- Spotted Stain/Saturation
- Questionable Show
- Dead/Gilsonitic

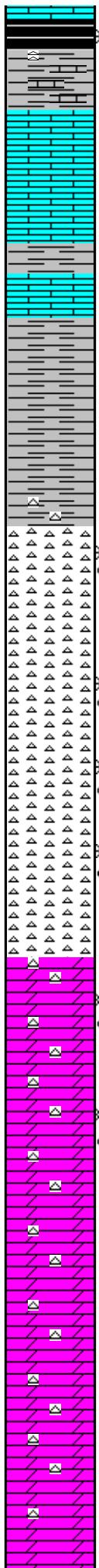
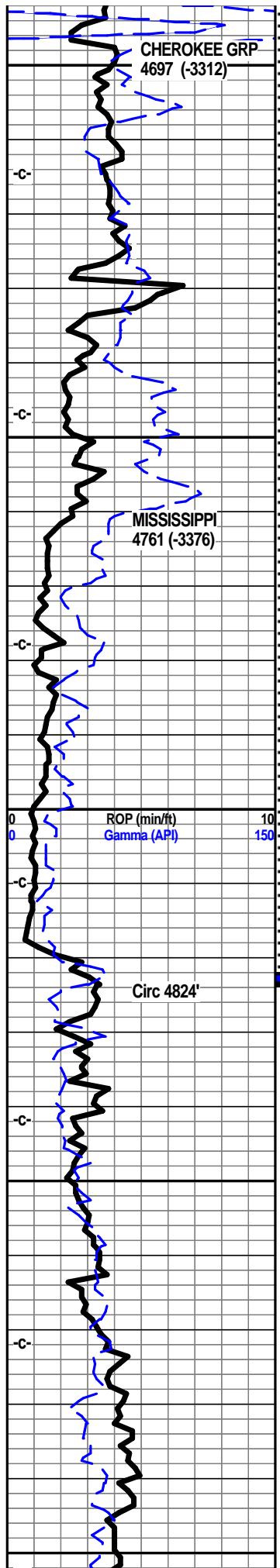




Lithology and fossil descriptions for the PAWNEE section:

- Ist tan buff crm f xln gran blk ang filky sub chlky foss frags micro ool/pelletal, calc xln fill, chrt wht/gry shrp frsh opaq
- Ist tan buff f xln gran sub chlky foss frags micro ool, chrt wht tan shrp frsh
- shl drk gry blk, blk carb, blk ang pcs, wxy grsy text, abun gas bubs
- Ist crm buff lt gry f xln gran filky sub chlky foss frags, micro ool, calc xln fill, chrt tan lt gry wht shrp frsh opaq
- Ist crm buff lt gry f xln gran filky sub chlky foss frags, micro ool, calc xln fill, chrt tan lt gry wht shrp frsh opaq
- shl gry drk gry brn calc, Ist tan lt brn f vf xln dn shrd blk y dns arg foss frags, shl gry blk, blk carb in prt
- Ist tan lt gry brn f vf xln dns hrd blk y ang pcs, sub arg, calc xln fill, micro foss, chrt tan brn shrp frsh
- shl gry gry/green, brn silty calc, Ist brn vf xln massive, hrd blk y micro foss calc xln fill arg
- shl gry gry/brn, Ist tan gry/brn f vf xln dns hrd blk y ang dns, arg, tr foss, tr calc xln fill
- Ist crm buff lt gry f vf xln dns hrd blk y ang pcs, calc xln fill, tr micro foss frags
- shl gry gry/green silty gritty tr snyd, Ist crm buff tan vf xln dn shrd sub chlky calc xln fill
- Ist crm buff tan f vf xln dns hrd blk y tr sub chlky, tr micro foss calc xln fill
- shl gry drk gry silty gritty calc Ist tan gry brn vf xln gritty gran arg
- Ist crm tan buff f vf xln blk ang hrd pcs, tr sub chlky, tr calc xln fill, mstly dns
- Ist crm buff lt tan f vf xln dns hrd blk y pcs, tr sub chlky, mstly dns, tr micro foss frags, tr micro ool, tr calc xln re-fill
- Ist crm tan buff f vf xln blk ang dns hrd, tr sub chlky, micro foss frags, tr micro ool, tr calc xln fill
- shl gry drk gry blk, blk carb, wxy grsy text, tr gas bubs, shl gry drk gry silty calc blk y ang pcs
- Ist tan buff lt tan f vf xln dns blk y hrd, tr sub chlky foss frags, foss micro ool, calc xln re-fill, NVP, nsfo, nodor, fair sho gas bubs, filmy cond on spl wtr, bright UV.
- Ist tan buff lt tan f vf xln dns hrd blk y ang pcs, foss frags, micro ool, calc xln fill, tr sub chlky
- shl gry med/drk gry blk semi carb, wxy grsy , gas bubs
- Ist tan gry lt gry f vf xln dns hrd blk y arg, silts, tr sub chlky, micro foss frags, calc xln fill
- Ist tan lt gry tr buff f vf xln dns hrd blk y ang pcs,





tr sub cnky, micro rass frags, tr cnrt tan brn snrp frsh

shl gry, gry blk, bk caarb wxy grsh text, shl gry med gry calc, calc inclu

sh gry green blk, silty gritty calc, lst tan buff f vf xln dn shrd blky ang calc xln fill, tr sub chlky, tr chrt

shl gry dkr gry brn silty gritty calc in prt, lst tan gry vf xln gritty tr sny, arg silty, abun drk gry blk shls in spl

lst drk tan gry tr lt brn vf xln dns hrd ang blky arg silty, arg, abun shl aa, drk gry blk splintery

shl gry green blue maroon yllw, vari color, gritty, splintery

shl gry, green gry/blue, maroon, yllw, vari color, silty, gritty, splintery, soft

chrt lt gry, off wht, smokey, shrp, frsh, semi opaq, tr trip edge text, pp/moldic por, frac por, blk dead filky stain, tr gas bubs, vsli odor VSSFO, mstly frsh barren chrt

chrt lt gry off wht, tan, shrp frsh, opaq, blky, vis frac por, tr trip edge text, pp, moldic por, incr odor, incr stain SFO with depth, dull UV,

chrt lt gry tan, smokey, drk tan, frsh shrp blky w/weath trip edge text, pp moldic por, fair odor, incr SFO/brn stain with depth

chrt wht tan brn mott frsh shrp opaq, w/gd weath trip text, gd vis pp/moldic por, f/gd odor, f/ SFO, gd odor, brn stain, brn dry stain, filmy SFO, dull UV, vis surface gas bubs, gd gas w/brkn, filmy SFO, tr SFO w/brkn

dolo crm tan lt brn f xln blky hrd dns chrt, surc text, pp tr trip text, blue gry chrt inclu, chrt gry smokey shrp frsh w/brn dolo edge, SSFO Stain, gas bubs

dolo lst in prt, crm off wht tan f vf xln dns blky gran sili xucr text, glau, chrt wht shrp frsh opaq, dolo tan lt brn vf xln gran chrt, blue smokey chrt inclu, stain, VSSFO, tr gas

dolo crm off wht lt green tint, f vf xln gran surc tr silic text, tr sny, gritty, tr glau, tr, with brn stain edge, chrt, blue gry smokey chrt inclu, tr stain, tr gas bubs, nodoor

dolo crm drk tan bec gry f vf xln dn shrd blky ang dns arg, silty, tr silic text, chrt in prt, chrt gry drk gry smokey shrp frsh opaq

dolo incr silty dolo f vf xln dn shrd blky gran arg, silic text in prt, chrt in prt, chrt gry drk gry shrp frsh

dolo gry med gry f vf xln gran arg silty silic text in prt, chrt gry shrp frsh

90 GCSWCW
(10%G 2%W)
(88%M)
chl: 34,000 ppm
IHP 2263
IFP 107-225
ISIP 1223
FFP 216-347
FSIP 1242
FHP 2236
BHT 126 deg

FFP	MCF
10"	13.6
20"	17.4
30"	21.1
40"	22.2
50"	23.7
60"	24.8

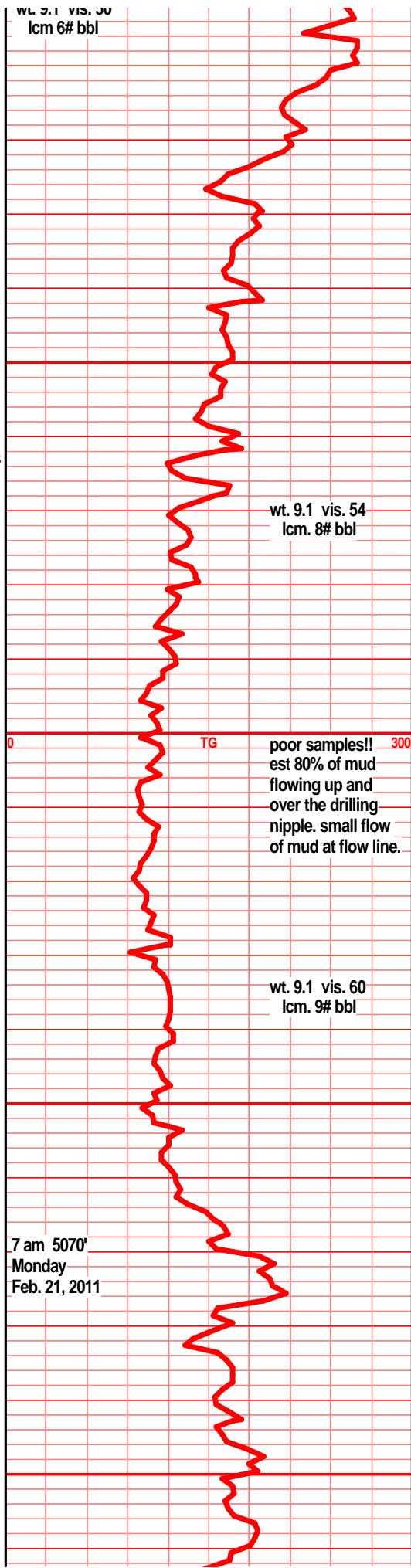
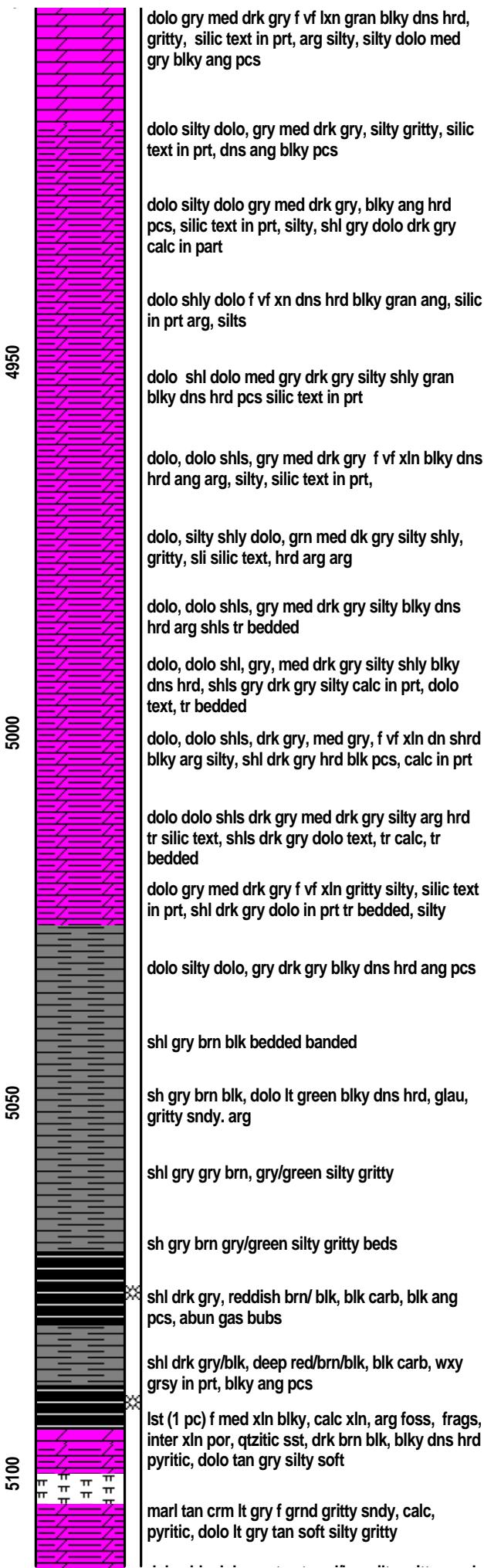
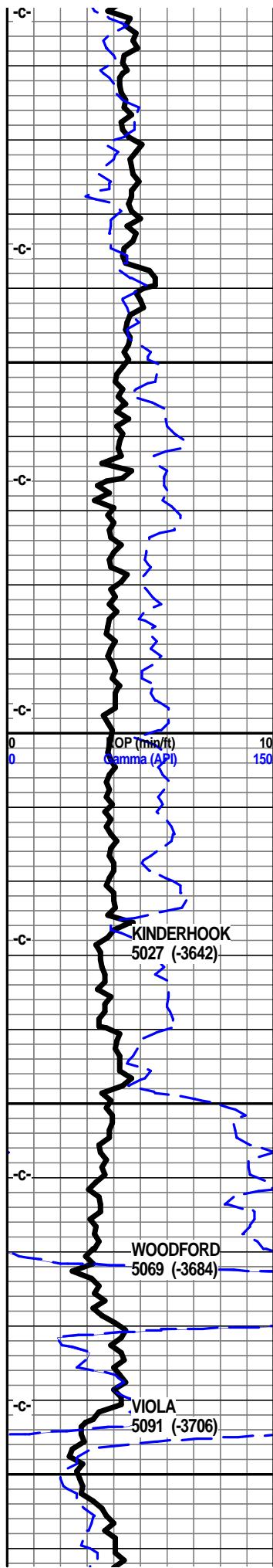
Mud-Co 4733'
wt. 9.2 vis. 48
wl 9.6 chl. 5,000
lcm. 3# bbl

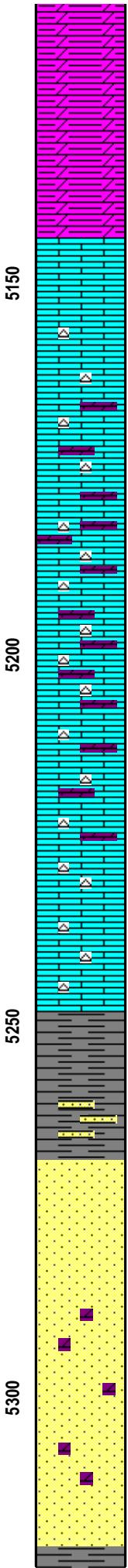
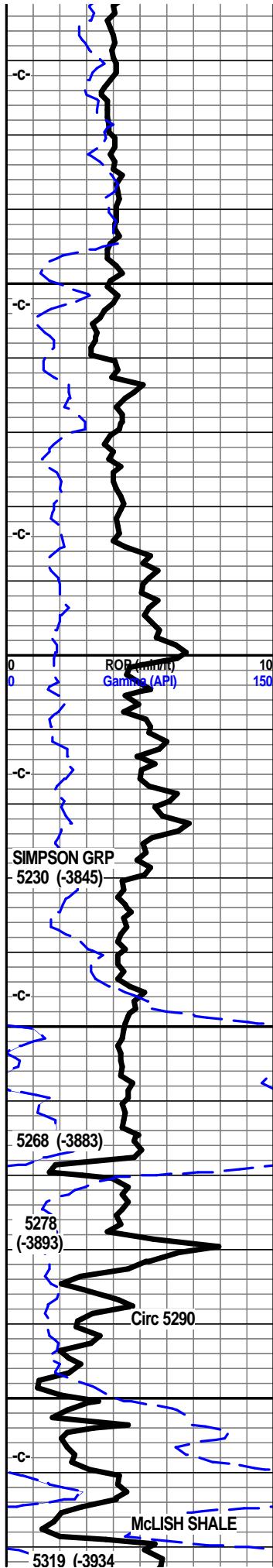
0 TG 200

CFS 7 am 4824'
Scale Change TG Sunday Feb. 20, 2011 300

Mud aired up
gassy after DST

wt. 9.1 vis. 50



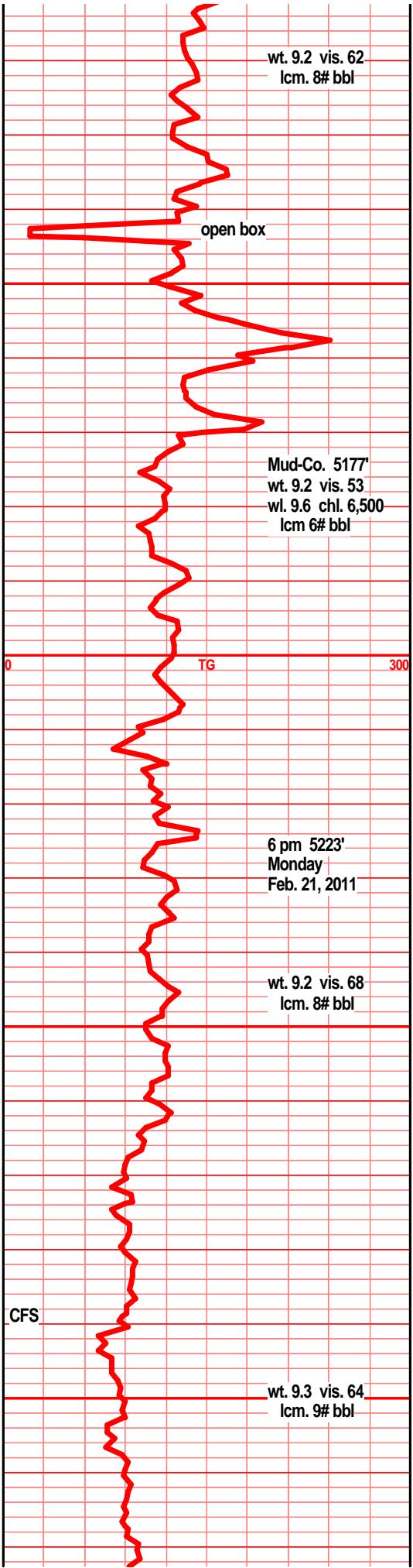


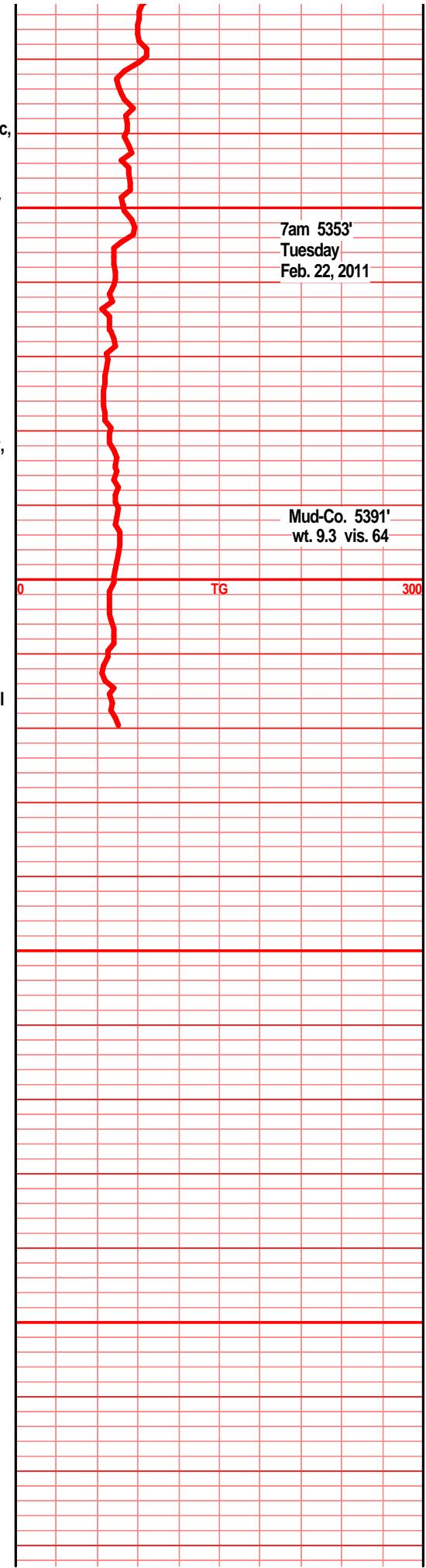
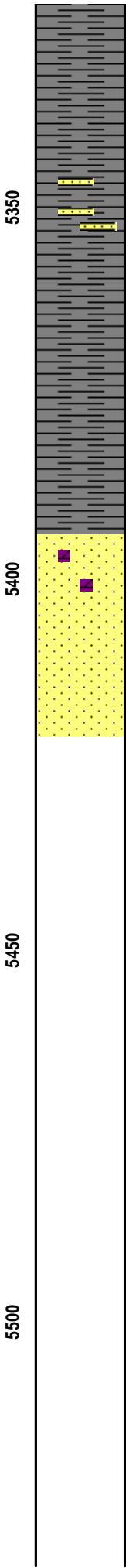
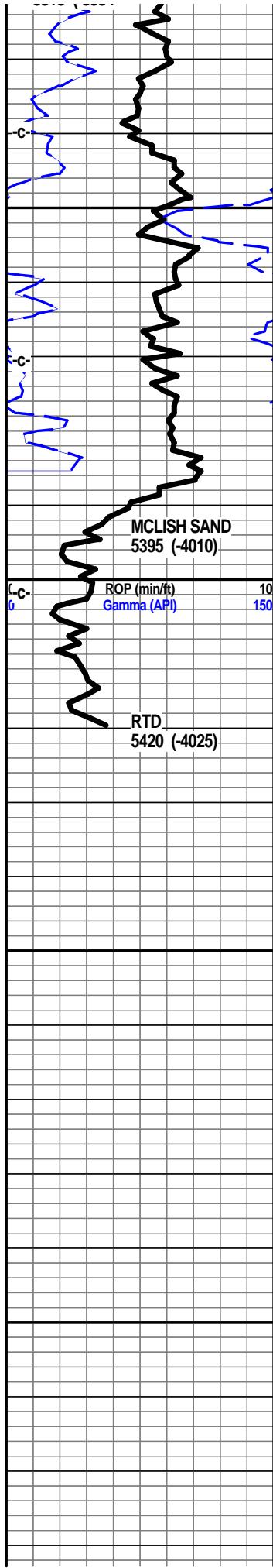
Geological log from 5150 to 5300 feet.

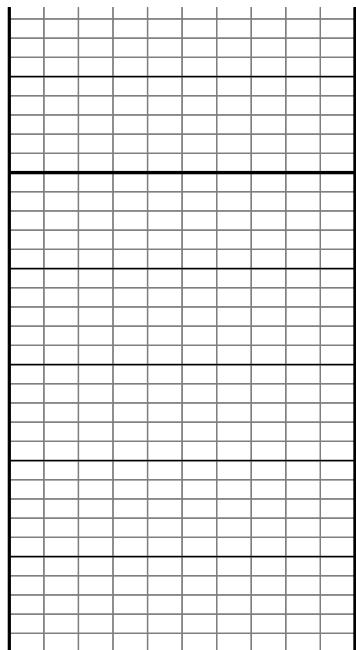
- 5150 - 5200 ft:** Ist wht off wht tr gry tint, f sli med xln, blky ang, flky, tr sub chiky, tr foss, tr pyritic, chrt wht shrp frsh (3-4 pcs in spl only)
- 5200 - 5250 ft:** Ist wht off wht, lt gry tint in prt, f med xln bky flky pcs, crs xln in prt, tr sub chiky, foss frags, chrt in prt, chrt wht shrp frsh opaq
- 5250 - 5300 ft:** Ist dol in prt, tan brn gry mott f sli med xln, blky ang hrnd gran dns, tr foss frags, tr sucrt text, chrt dull tan gry shrp frsh foss opaq

5300 ft:

- shl aa, sst clr gry lt grn clstrs (2-3) fn grnd sub rded grns w/srtd, sub fria, some loose grns in tray,
- sst clr lt gry clstrs, f grnd, sub rded, w/srtd sub fria inter grn por, prly cem, silic cem, drk brn grsy dead SFO, no gas nodor
- sst clr lt tan clstrs, dol in prt, f grnd, sub rded grns, w/srtd, sub fria, prly cem silic cem, dol text in prt, sst wht clstrs, f grnd, rded grns, semi-fria, w/srtd, w/cem, tr glau,
- sst clr wht clstrs, f tr vf grnd, rded grns, w/srtd, semi-fria, f/well cem, silic cem, sst clr lt gry/tan clstrs, f grnd, sub ang grns, w/srtd, prly cem, silic cem, dol text in prt, tr glau, tr min fill, tr clay fill, arg in prt,







5550

00

