

Timothy G. Pierce

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

<p>COMPANY <u>N-10 Exploration, LLC</u></p> <p>LEASE <u>Medicine River Ranch 'B' #7</u></p> <p>FIELD <u>Landis</u></p> <p>LOCATION <u>SW NW SE</u></p> <p>SEC <u>15</u> TWP <u>34S</u> RGE <u>11W</u></p> <p>COUNTY <u>Barber</u> STATE <u>Kansas</u></p> <p>CONTRACTOR <u>Hardt Drilling Rig #1</u></p> <p>SPUD <u>6-30-2011</u> COMP <u>7-09-2011</u></p> <p>RTD <u>5045</u> LTD <u>5038</u></p> <p>MUD UP <u>3300</u> TYPE MUD <u>Chemical</u></p> <p>SAMPLES SAVED FROM <u>4000</u> TO <u>RTD</u></p> <p>DRILLING TIME KEPT FROM <u>4000</u> TO <u>RTD</u></p> <p>SAMPLES EXAMINED FROM <u>4000</u> TO <u>RTD</u></p> <p>GEOLOGICAL SUPERVISION FROM <u>3940</u> to <u>RTD</u></p> <p>GEOLOGIST ON WELL <u>Tim Pierce</u></p>	<p>ELEVATIONS</p> <p>KB <u>1348'</u></p> <p>DF _____</p> <p>GL <u>1338'</u></p> <p>Measurements Are All From <u>Kelly Bushing</u></p> <p>CASING</p> <p>CONDUCTOR _____</p> <p>SURFACE <u>8-5/8"</u> at <u>278'</u></p> <p>PRODUCTION <u>5-1/2"</u> at <u>5037'</u></p> <p>ELECTRICAL SURVEYS</p> <p><u>DIL / CN-CD</u></p> <p><u>Log-Tech</u></p>																								
<p>FORMATION TOPS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Heebner Sh.</td><td>3623 (-2275)</td><td>NA</td></tr> <tr><td>Iatan L.S.</td><td>4062 (-2714)</td><td>4062 (-2714)</td></tr> <tr><td>Stark Sh.</td><td>4306 (-2958)</td><td>4306 (-2958)</td></tr> <tr><td>Cherokee Sh.</td><td>4530 (-3182)</td><td>4532 (-3184)</td></tr> <tr><td>Mississippi</td><td>4587 (-3239)</td><td>4575 (-3227)</td></tr> <tr><td>Chattanooga Sh.</td><td>4865 (-3517)</td><td>4865 (-3517)</td></tr> <tr><td>Viola</td><td>4924 (-3576)</td><td>4924 (-3576)</td></tr> <tr><td>Simpson</td><td>5013 (-3665)</td><td>5017 (-3669)</td></tr> </table>	Heebner Sh.	3623 (-2275)	NA	Iatan L.S.	4062 (-2714)	4062 (-2714)	Stark Sh.	4306 (-2958)	4306 (-2958)	Cherokee Sh.	4530 (-3182)	4532 (-3184)	Mississippi	4587 (-3239)	4575 (-3227)	Chattanooga Sh.	4865 (-3517)	4865 (-3517)	Viola	4924 (-3576)	4924 (-3576)	Simpson	5013 (-3665)	5017 (-3669)	<p>ELECTRIC LOG</p> <p>SAMPLE</p> <div style="text-align: center;"> </div>
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REMARKS Samples and electric logs indicate probable production from the Mississippi.

A slight sample show was noted in the Meisner Sand at 4891', this zone should be evaluated through casing.

The Chattanooga Shale carried shows of gas and oil and may be productive in this area, consideration should be given to this zone before this well is plugged.

A sample show and gas kick were observed in the top Kansas City zone at approx. 4150', this interval is not apparent on the electric logs but should be considered before this well is plugged.

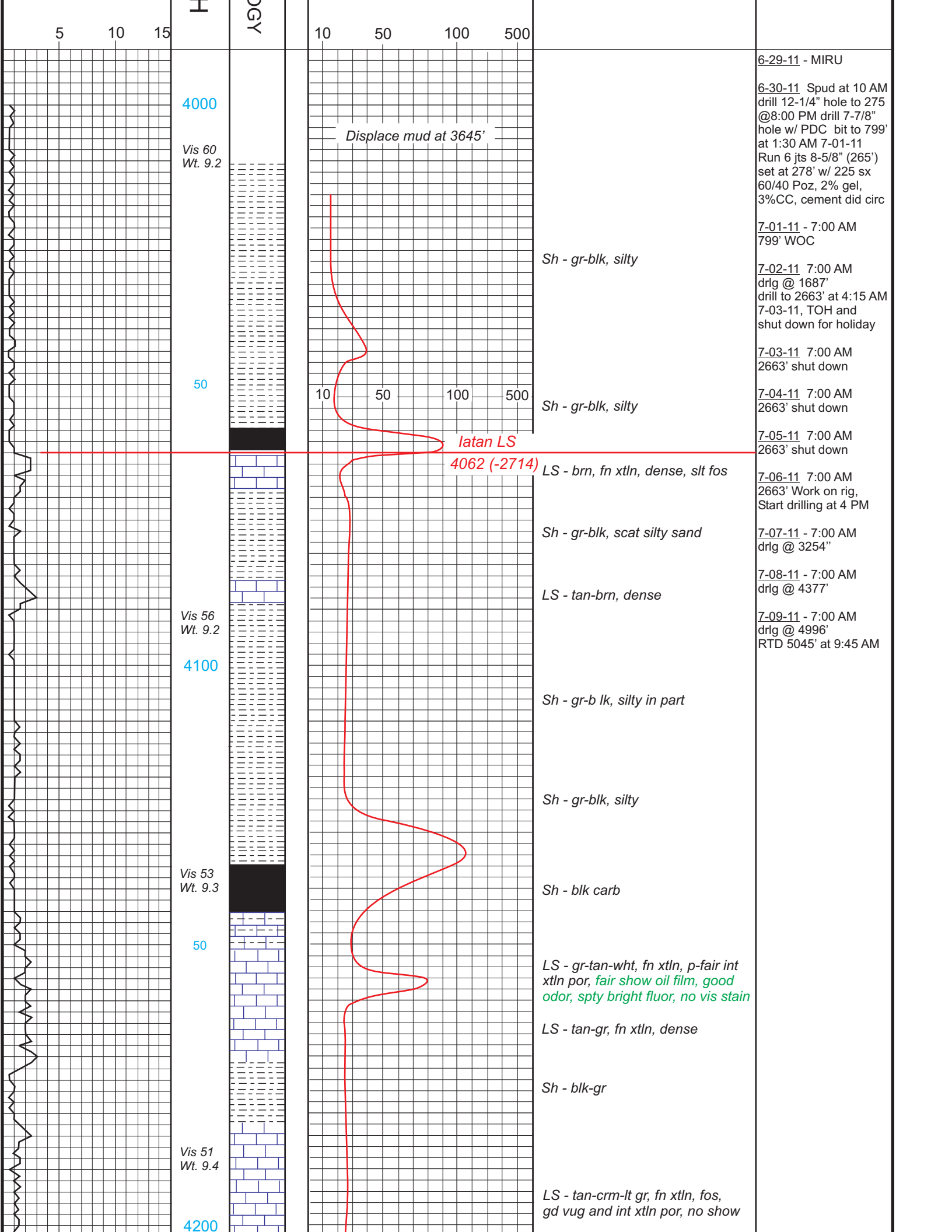
There were no other zones of interest indicated by samples or electric logs.

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LEGEND

Anhydrite	Sandstone	Limestone	Shale	Carb Sh	Cherty LS	Chert	Dolomite

<p>DRILLING TIME IN MINUTES PER FOOT</p> <p>Rate of Penetration Decreases</p> <p style="text-align: center;">→</p>	<p>DEPTH</p>	<p>LITHOLOG</p>	<p>GAS SCALE</p>	<p>SAMPLE DESCRIPTION</p>	<p>REMARKS</p>
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5 10 15

4000

Vis 60
Wt. 9.2

50

Vis 56
Wt. 9.2

4100

Vis 53
Wt. 9.3

50

Vis 51
Wt. 9.4

4200

OGY

10 50 100 500

10 50 100 500

Displace mud at 3645'

latan LS
4062 (-2714)

Sh - gr-blk, silty

Sh - gr-blk, silty

LS - brn, fn xtln, dense, slt fos

Sh - gr-blk, scat silty sand

LS - tan-brn, dense

Sh - gr-blk, silty in part

Sh - gr-blk, silty

Sh - blk carb

LS - gr-tan-wht, fn xtln, p-fair int
xtln por, fair show oil film, good
odor, spty bright fluor, no vis stain

LS - tan-gr, fn xtln, dense

Sh - blk-gr

LS - tan-crm-lt gr, fn xtln, fos,
gd vug and int xtln por, no show

6-29-11 - MIRU

6-30-11 Spud at 10 AM
drill 12-1/4" hole to 275
@8:00 PM drill 7-7/8"
hole w/ PDC bit to 799'
at 1:30 AM 7-01-11
Run 6 jts 8-5/8" (265')
set at 278' w/ 225 sx
60/40 Poz, 2% gel,
3%CC, cement did circ

7-01-11 - 7:00 AM
799' WOC

7-02-11 7:00 AM
drlg @ 1687'
drill to 2663' at 4:15 AM
7-03-11, TOH and
shut down for holiday

7-03-11 7:00 AM
2663' shut down

7-04-11 7:00 AM
2663' shut down

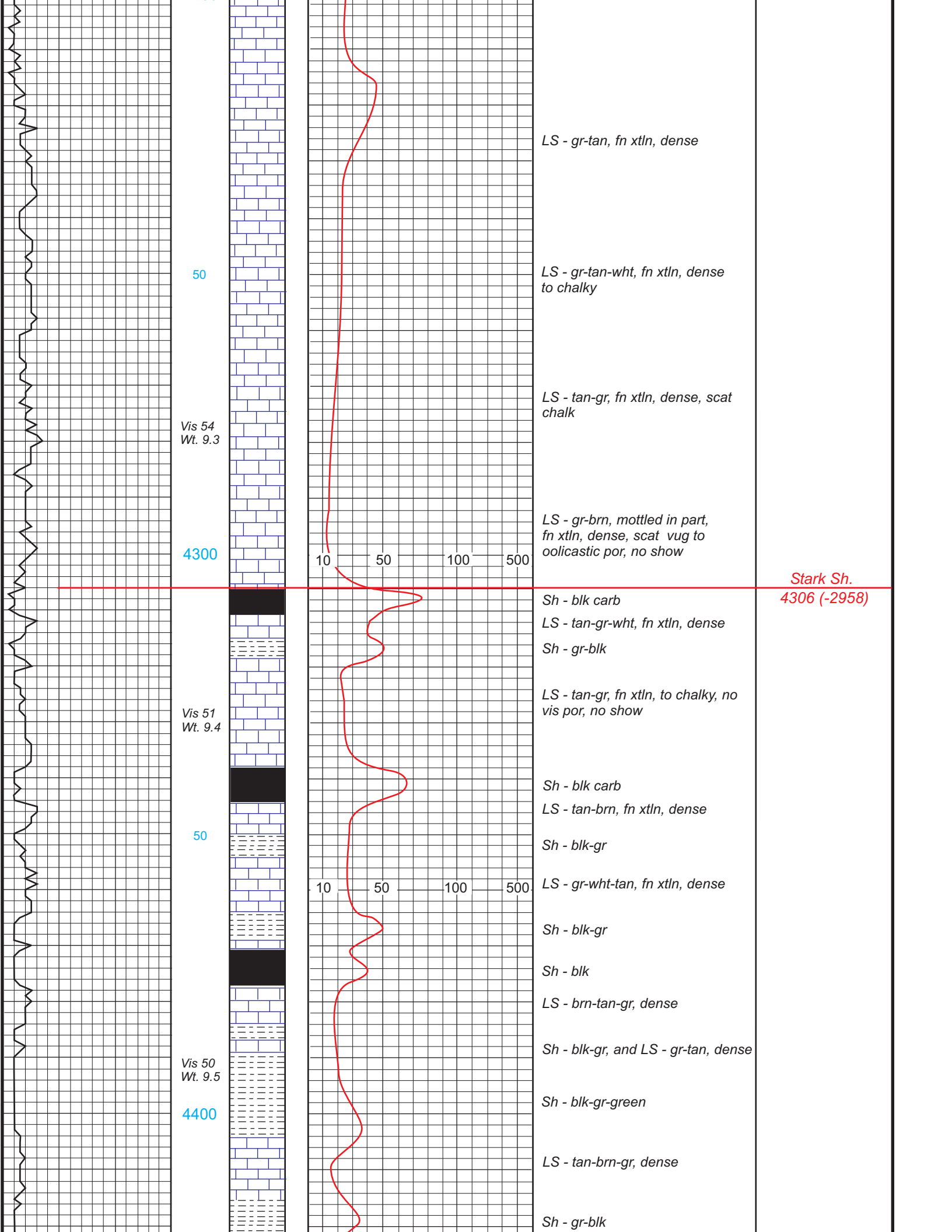
7-05-11 7:00 AM
2663' shut down

7-06-11 7:00 AM
2663' Work on rig,
Start drilling at 4 PM

7-07-11 - 7:00 AM
drlg @ 3254"

7-08-11 - 7:00 AM
drlg @ 4377'

7-09-11 - 7:00 AM
drlg @ 4996'
RTD 5045' at 9:45 AM



50

Vis 54
Wt. 9.3

4300

Vis 51
Wt. 9.4

50

Vis 50
Wt. 9.5

4400

LS - gr-tan, fn xtln, dense

LS - gr-tan-wht, fn xtln, dense to chalky

LS - tan-gr, fn xtln, dense, scat chalk

LS - gr-brn, mottled in part, fn xtln, dense, scat vug to oolitic por, no show

Stark Sh.
4306 (-2958)

Sh - blk carb

LS - tan-gr-wht, fn xtln, dense

Sh - gr-blk

LS - tan-gr, fn xtln, to chalky, no vis por, no show

Sh - blk carb

LS - tan-brn, fn xtln, dense

Sh - blk-gr

LS - gr-wht-tan, fn xtln, dense

Sh - blk-gr

Sh - blk

LS - brn-tan-gr, dense

Sh - blk-gr, and LS - gr-tan, dense

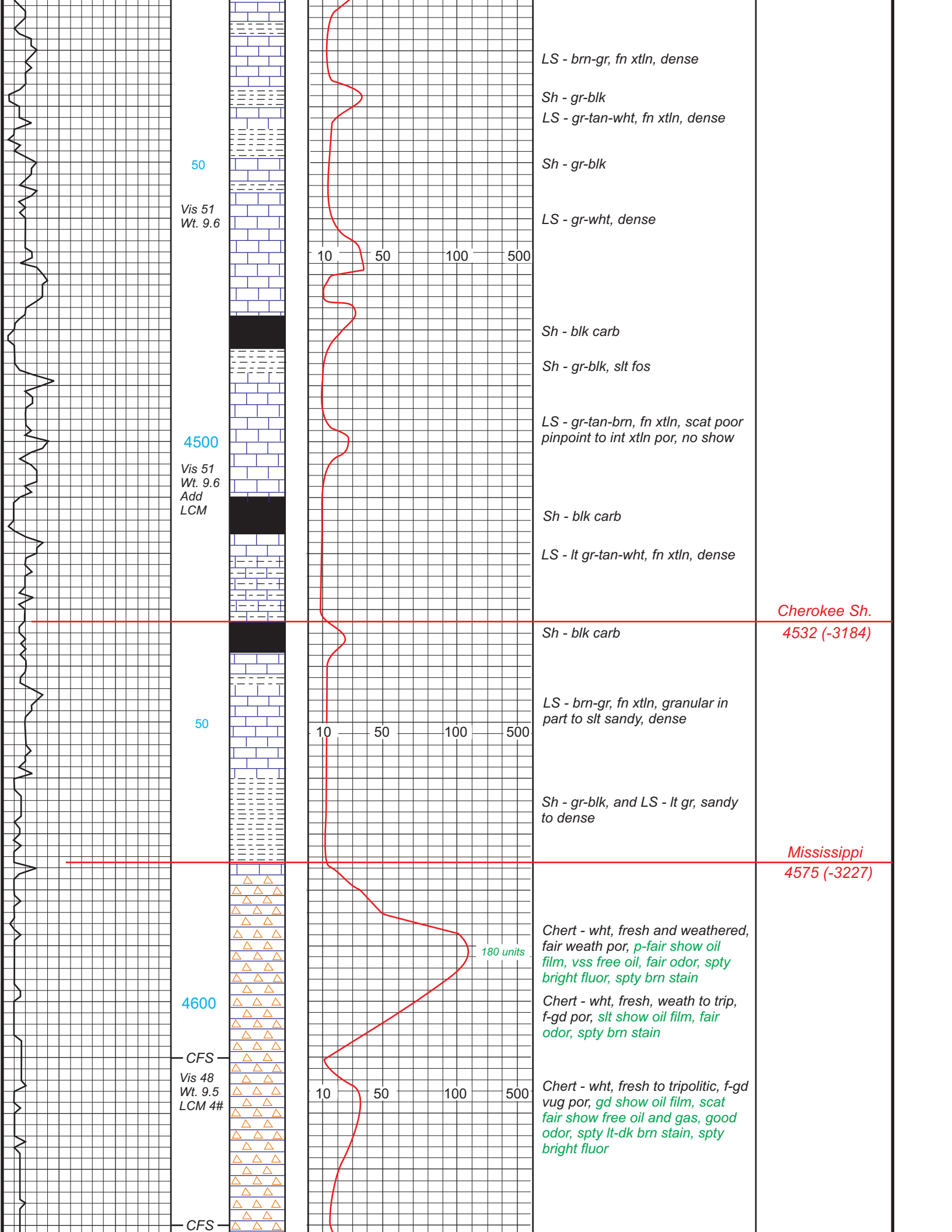
Sh - blk-gr-green

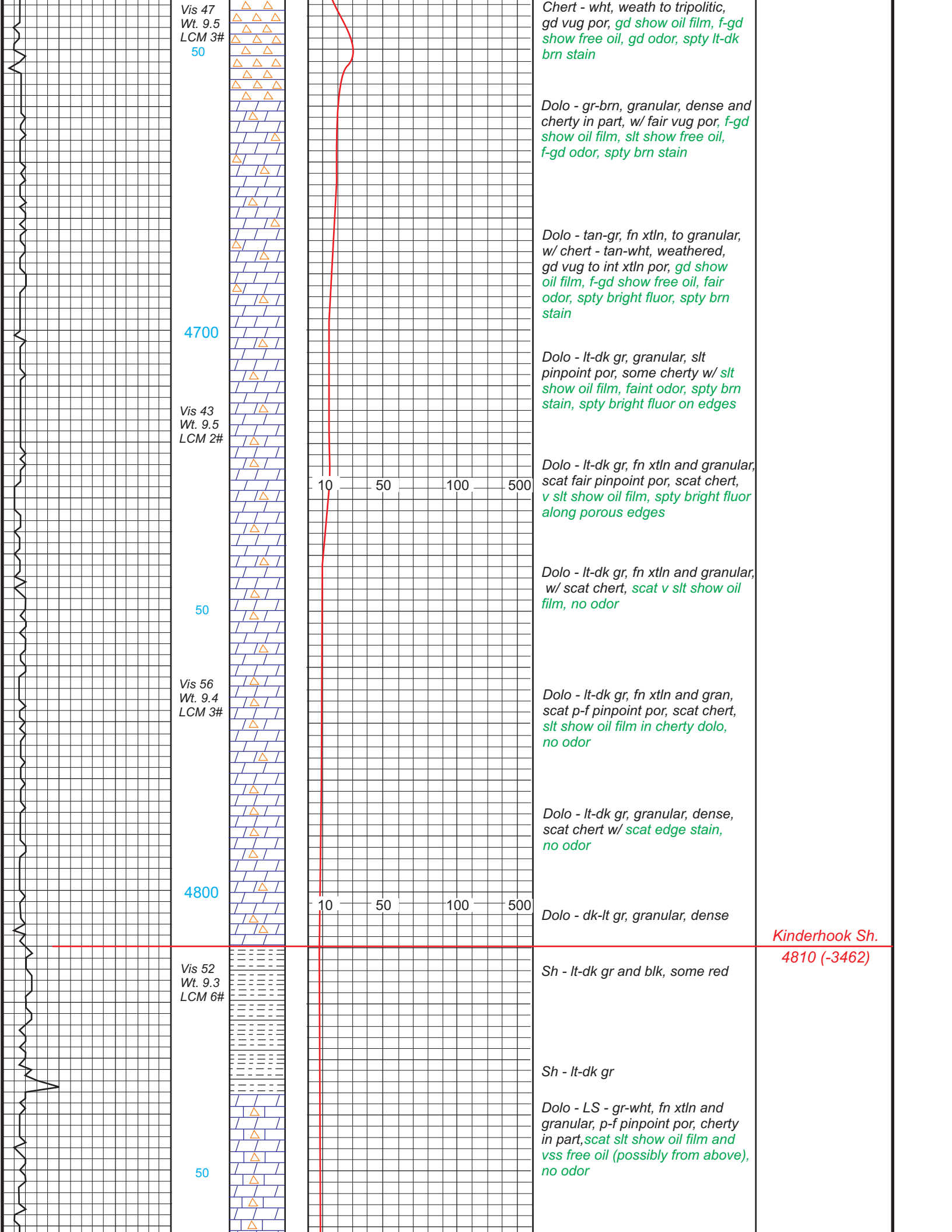
LS - tan-brn-gr, dense

Sh - gr-blk

10 50 100 500

10 50 100 500





Vis 47
Wt. 9.5
LCM 3#
50

4700

Vis 43
Wt. 9.5
LCM 2#

50

Vis 56
Wt. 9.4
LCM 3#

4800

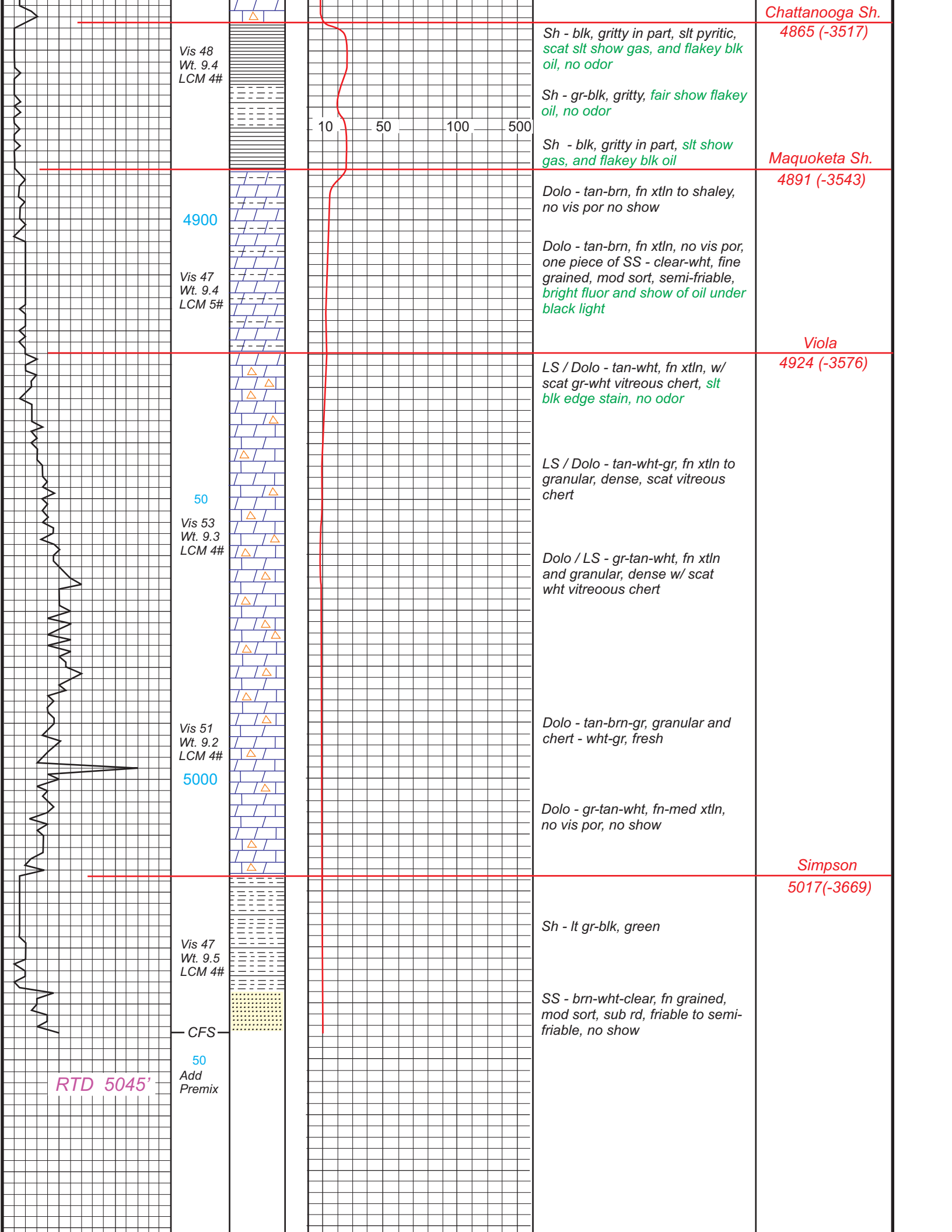
Vis 52
Wt. 9.3
LCM 6#

50

10 50 100 500

10 50 100 500

Kinderhook Sh.
4810 (-3462)



Chattanooga Sh.
4865 (-3517)

Vis 48
Wt. 9.4
LCM 4#

Sh - blk, gritty in part, slt pyritic, scat slt show gas, and flakey blk oil, no odor

Sh - gr-blk, gritty, fair show flakey oil, no odor

Sh - blk, gritty in part, slt show gas, and flakey blk oil

Maquoketa Sh.
4891 (-3543)

4900

Vis 47
Wt. 9.4
LCM 5#

Dolo - tan-brn, fn xtln to shaley, no vis por no show

Dolo - tan-brn, fn xtln, no vis por, one piece of SS - clear-wht, fine grained, mod sort, semi-friable, bright fluor and show of oil under black light

Viola

4924 (-3576)

50

Vis 53
Wt. 9.3
LCM 4#

LS / Dolo - tan-wht, fn xtln, w/ scat gr-wht vitreous chert, slt blk edge stain, no odor

LS / Dolo - tan-wht-gr, fn xtln to granular, dense, scat vitreous chert

Dolo / LS - gr-tan-wht, fn xtln and granular, dense w/ scat wht vitreous chert

Vis 51
Wt. 9.2
LCM 4#

5000

Dolo - tan-brn-gr, granular and chert - wht-gr, fresh

Dolo - gr-tan-wht, fn-med xtln, no vis por, no show

Simpson

5017(-3669)

Vis 47
Wt. 9.5
LCM 4#

Sh - lt gr-blk, green

SS - brn-wht-clear, fn grained, mod sort, sub rd, friable to semi-friable, no show

CFS

50
Add
Premix

RTD 5045'

