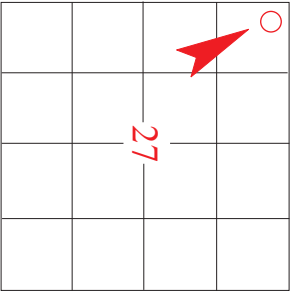


Timothy G. Pierce

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

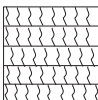
COMPANY	R & B Oil and Gas, Inc.			ELEVATIONS
LEASE	Newman 'A' #1 SWD 'OWWO'			KB 1522'
FIELD	Wildcat			DF
LOCATION	NW NW NW			GL 1517'
SEC	27	TWSP	32S	RGE 11W
COUNTY	Barber			STATE Kansas
CONTRACTOR	WW Drilling Rig #2			Measurements Are All From Kelly Bushing
SPUD	12-27-2017	COMP	12-30-2017	CASING
RTD	5279	LTD	5281	CONDUCTOR
MUD UP	4713	TYPE MUD	Chemical	SURFACE 8-5/8" at 247'
SAMPLES SAVED FROM	4740	TO	RTD	PRODUCTION 5-1/2" @ 4970' 225 sx AAC
DRILLING TIME KEPT FROM	4713	TO	RTD	ELECTRICAL SURVEYS
SAMPLES EXAMINED FROM	4740	TO	RTD	DIL/Dual Comp por
GEOLOGICAL SUPERVISION FROM	0' to RTD			Pioneer Energy Svs
GEOLOGIST ON WELL	Tim Pierce			
FORMATION TOPS	ELECTRIC LOG	SAMPLE		
Onaga Sh.	2596 (-1074)	2592 (-1070)		
Heebner Sh.	3594 (-2072)	3594 (-2072)		
Lansing	3764 (-2242)	3757 (-2235)		
Stark Sh.	4186 (-2664)	4185 (-2663)		
Cherokee Sh.	4398 (-2876)	4401 (-2879)		
Mississippi	4419 (-2897)	4427 (-2905)		
Viola	4676 (-3154)	4674 (-3152)		
Simpson	4749 (-3227)	4746 (-3224)		
Arbuckle	4884 (-3362)	4886 (-3364)		

REMARKS The original well was drilled with a KB of 1527', and RTD of 4720' the workover KB is 1522' and the old RTD was reached at 4713'. Drill time and sample tops have been adjusted uphole 7' on this report to reflect the new elevation and TD.

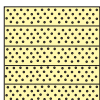
At 5260' the bit quit drilling, several attempts were made to get it to drill but were unsuccessful It was decided that enough of the Arbuckle had been drilled to make a good disposal well, and therefore it was decided to TD the well at 5279' with approx. 400 total feet of Arbuckle penetrated.

Timothy G. Pierce

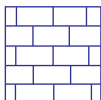
LEGEND



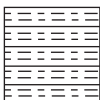
Anhydrite



Sandstone



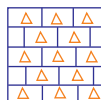
Limestone



Shale



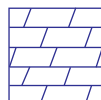
Carb Sh



Cherty LS



Chert



Dolomite

DRILLING TIME IN
MINUTES PER FOOT

Rate of Penetration Decreases



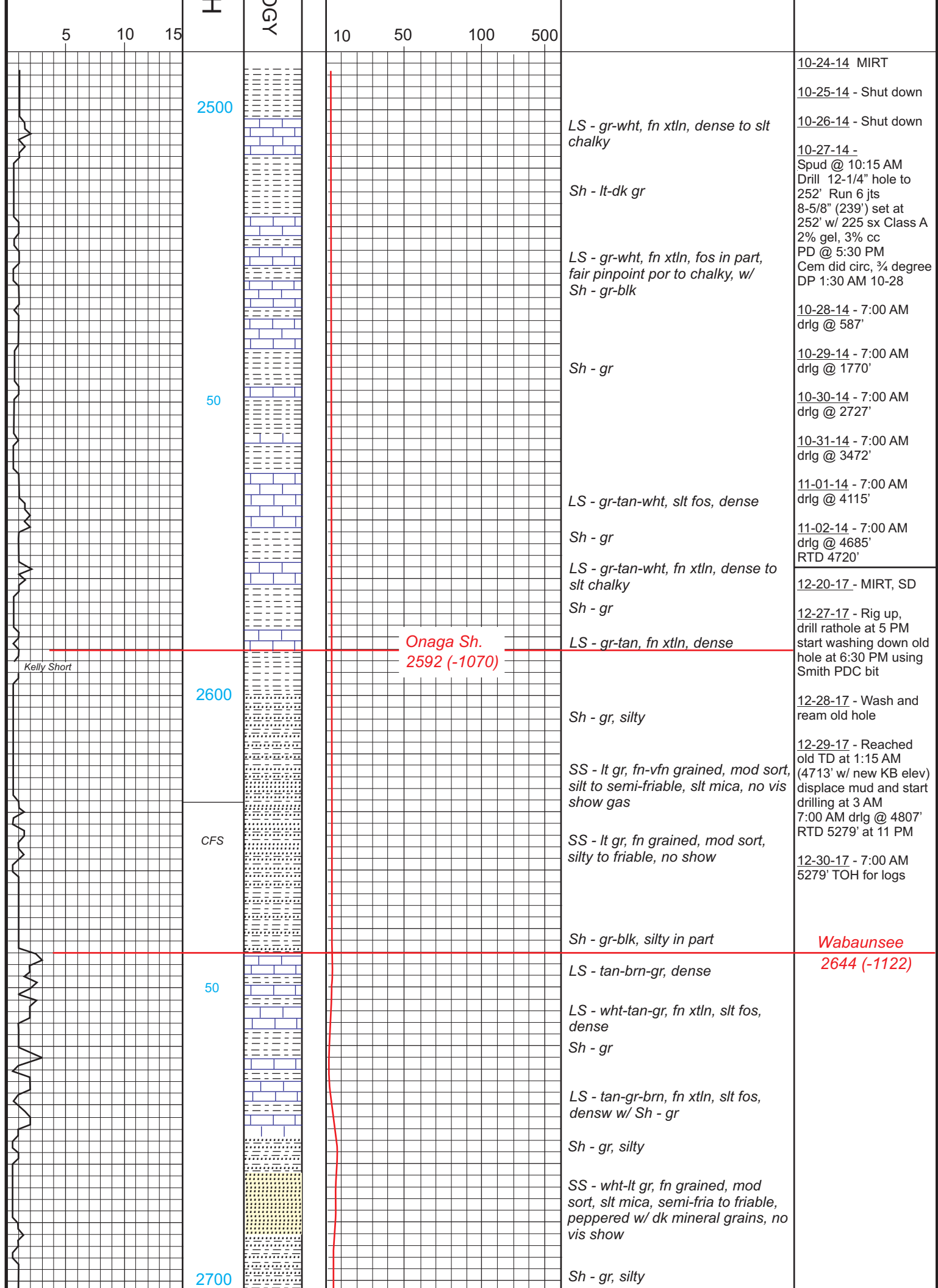
DEPTH

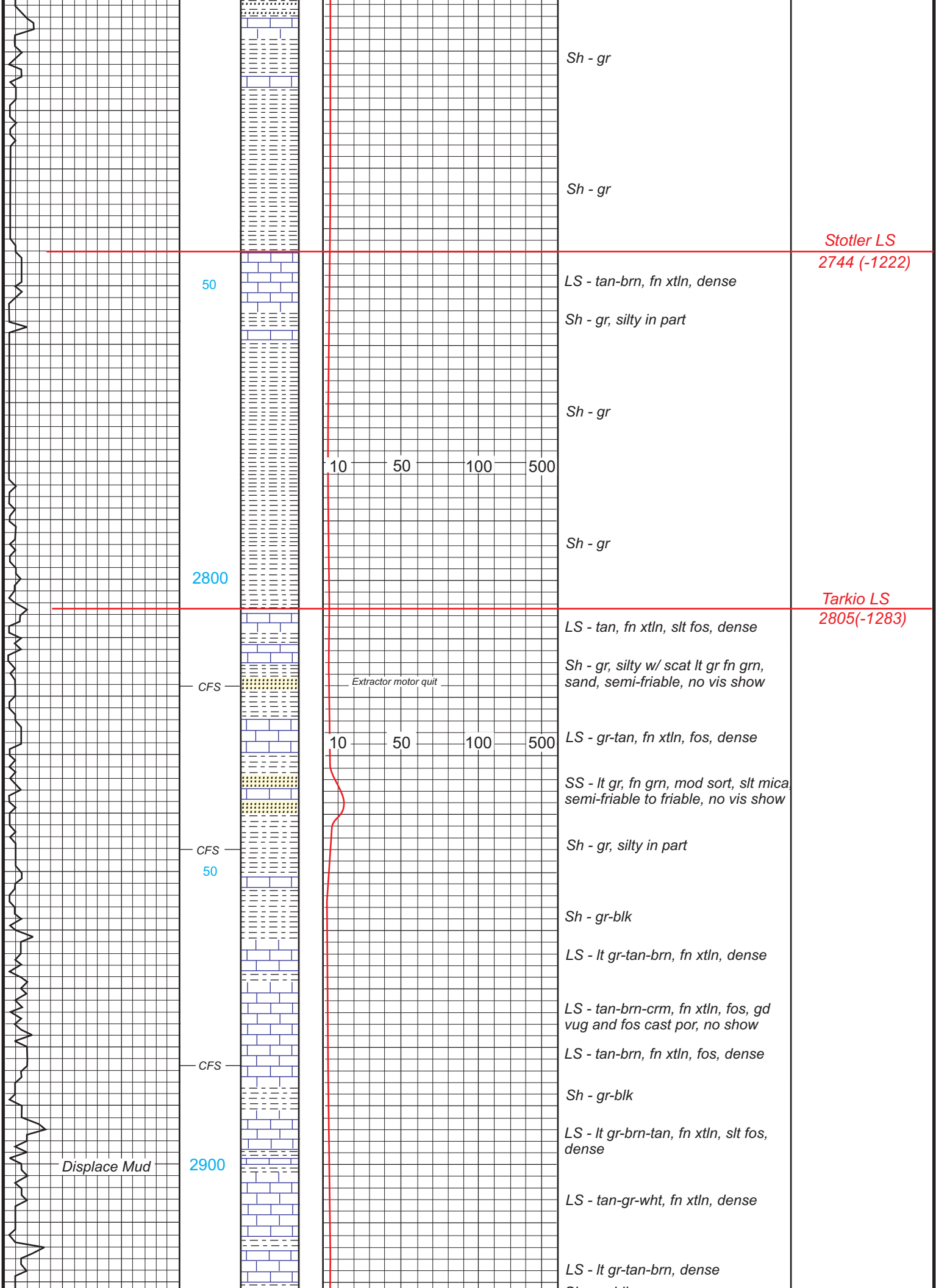
LITHOLOGY

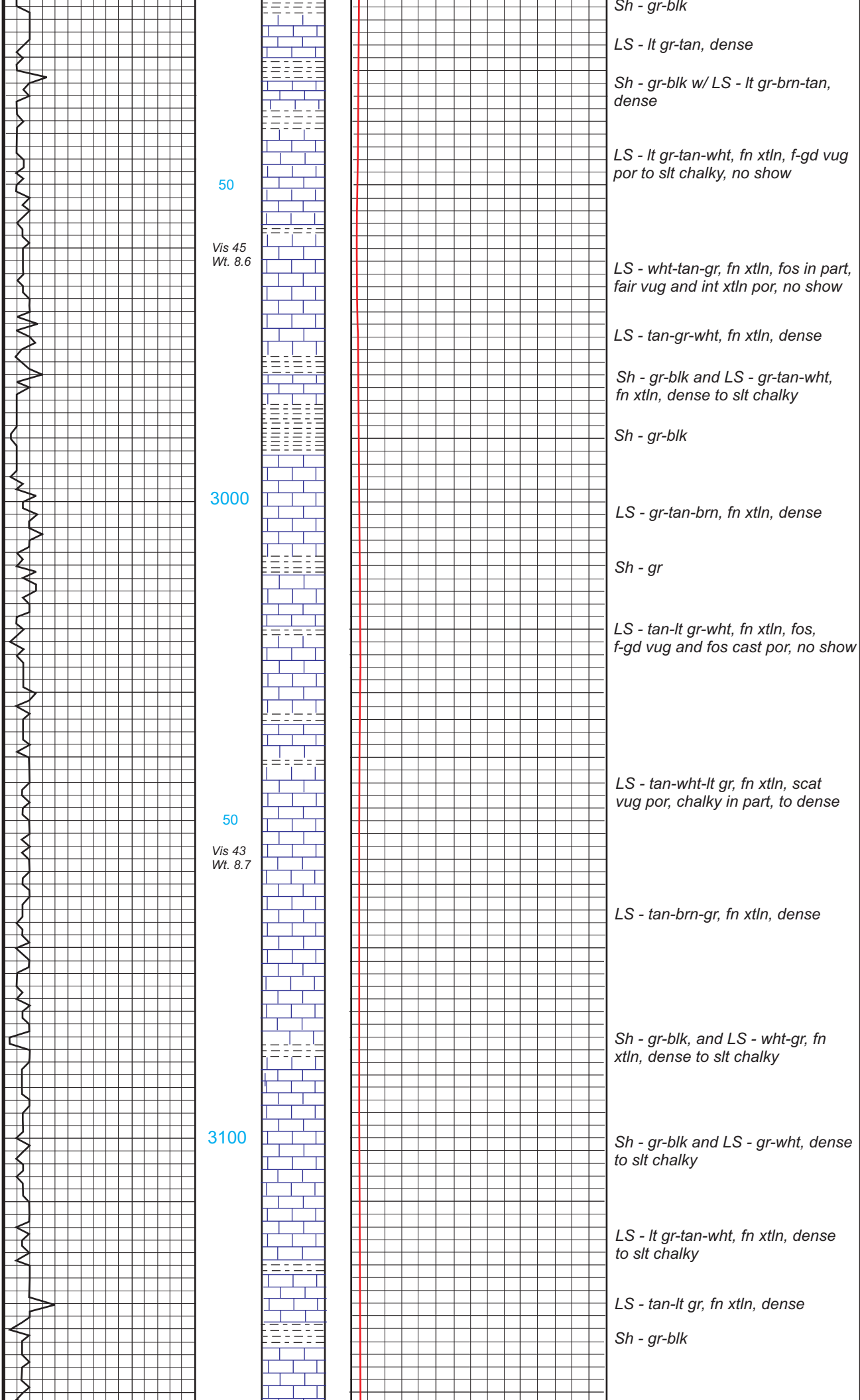
GAS SCALE

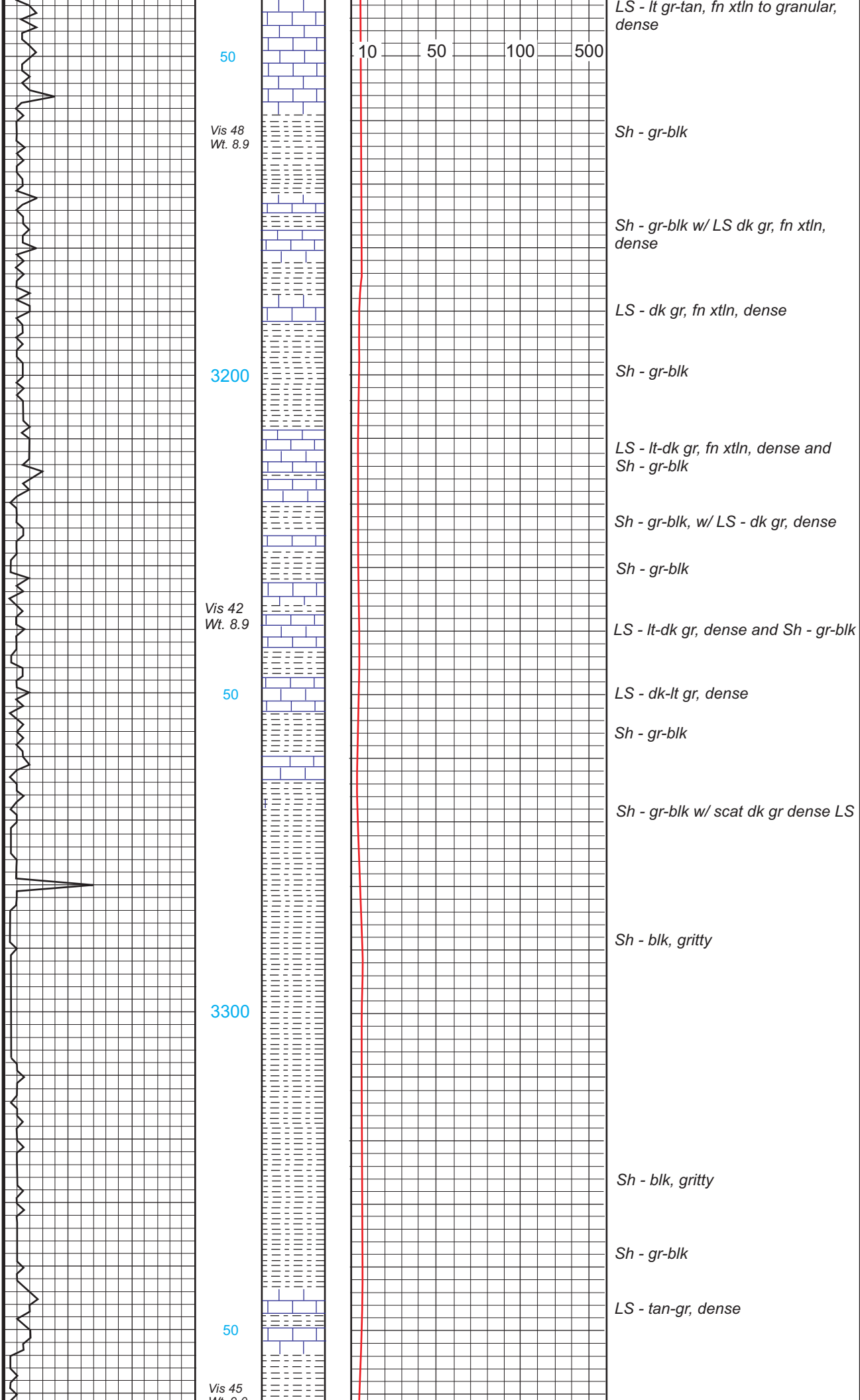
SAMPLE DESCRIPTION

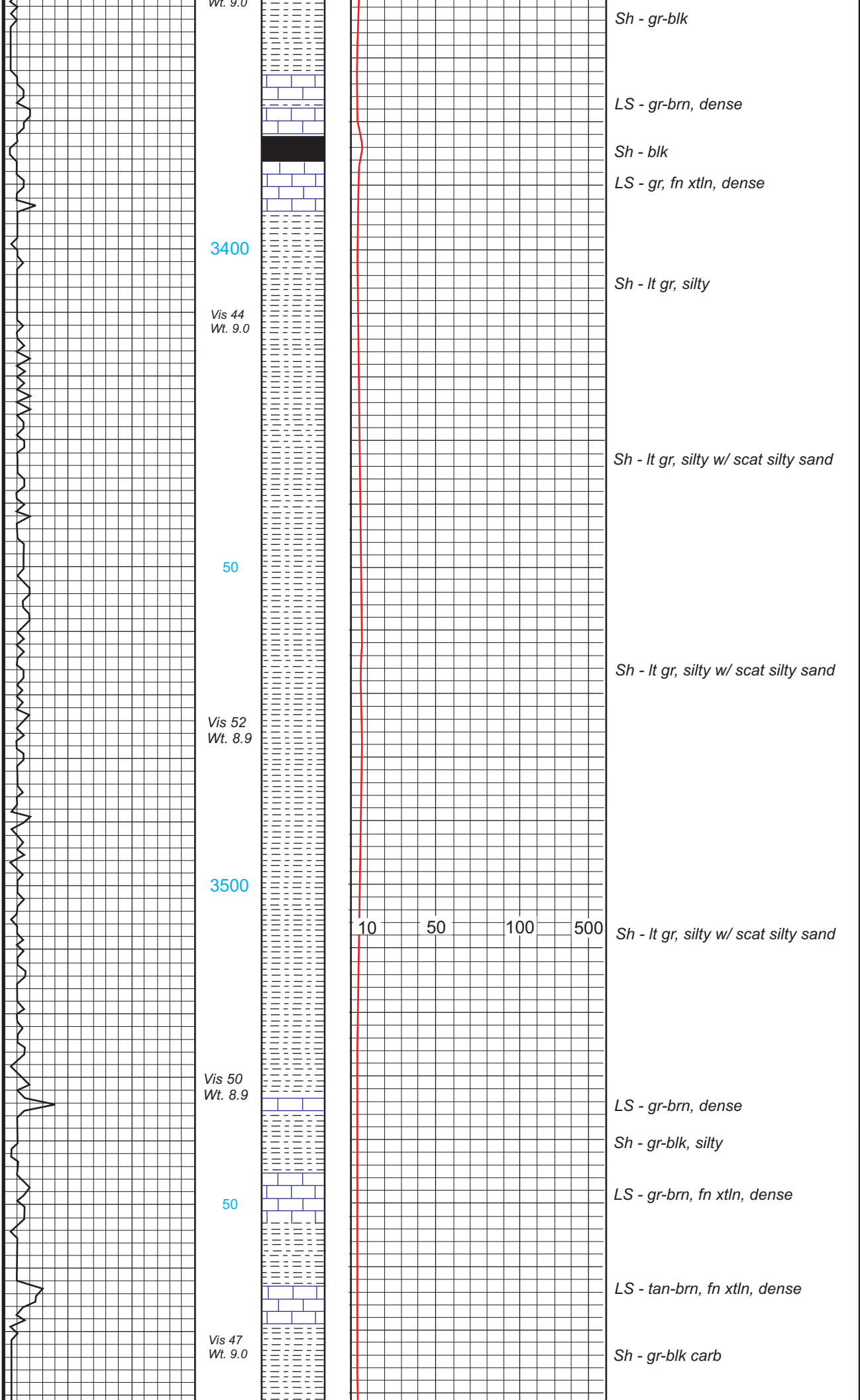
REMARKS

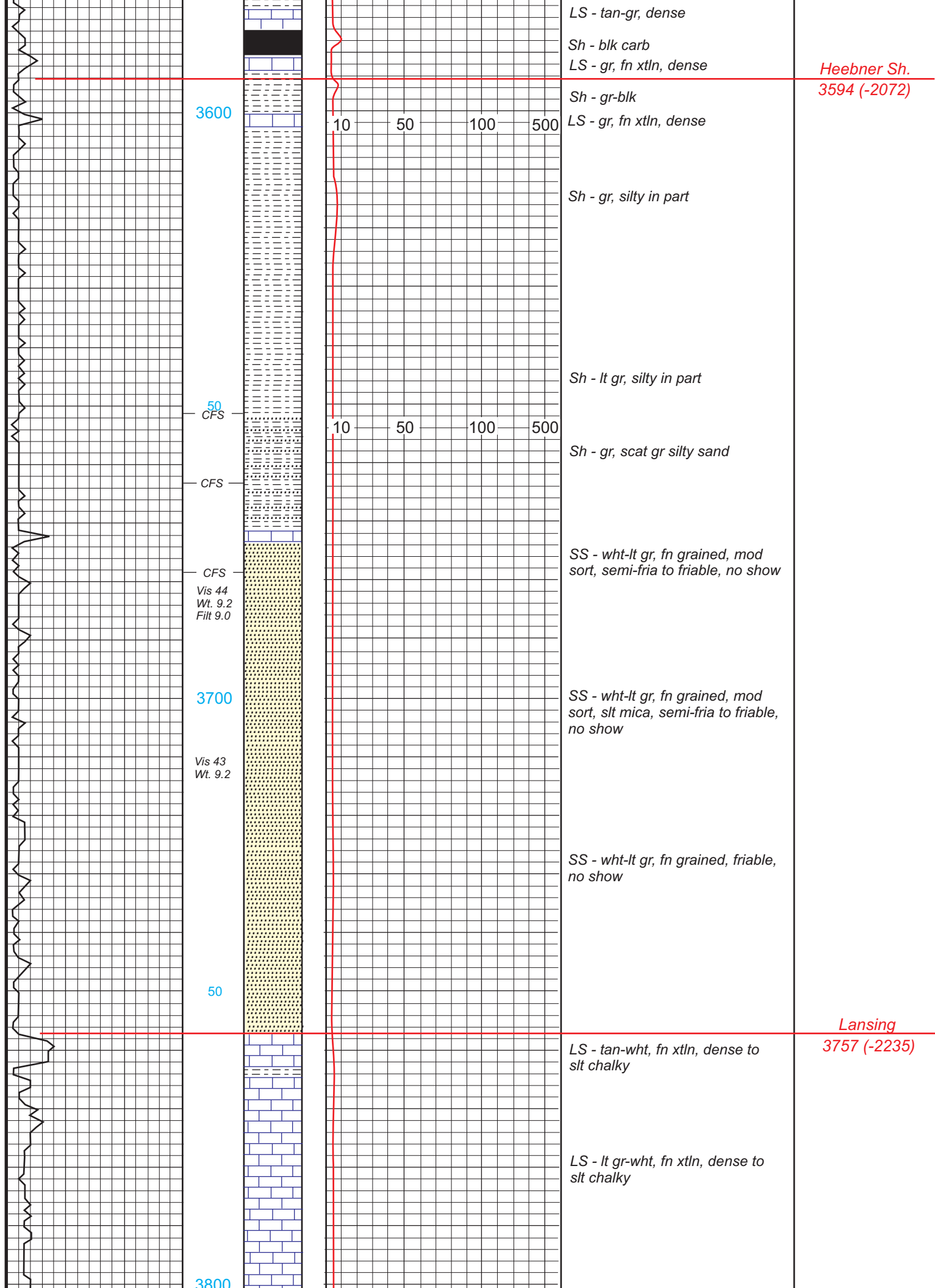


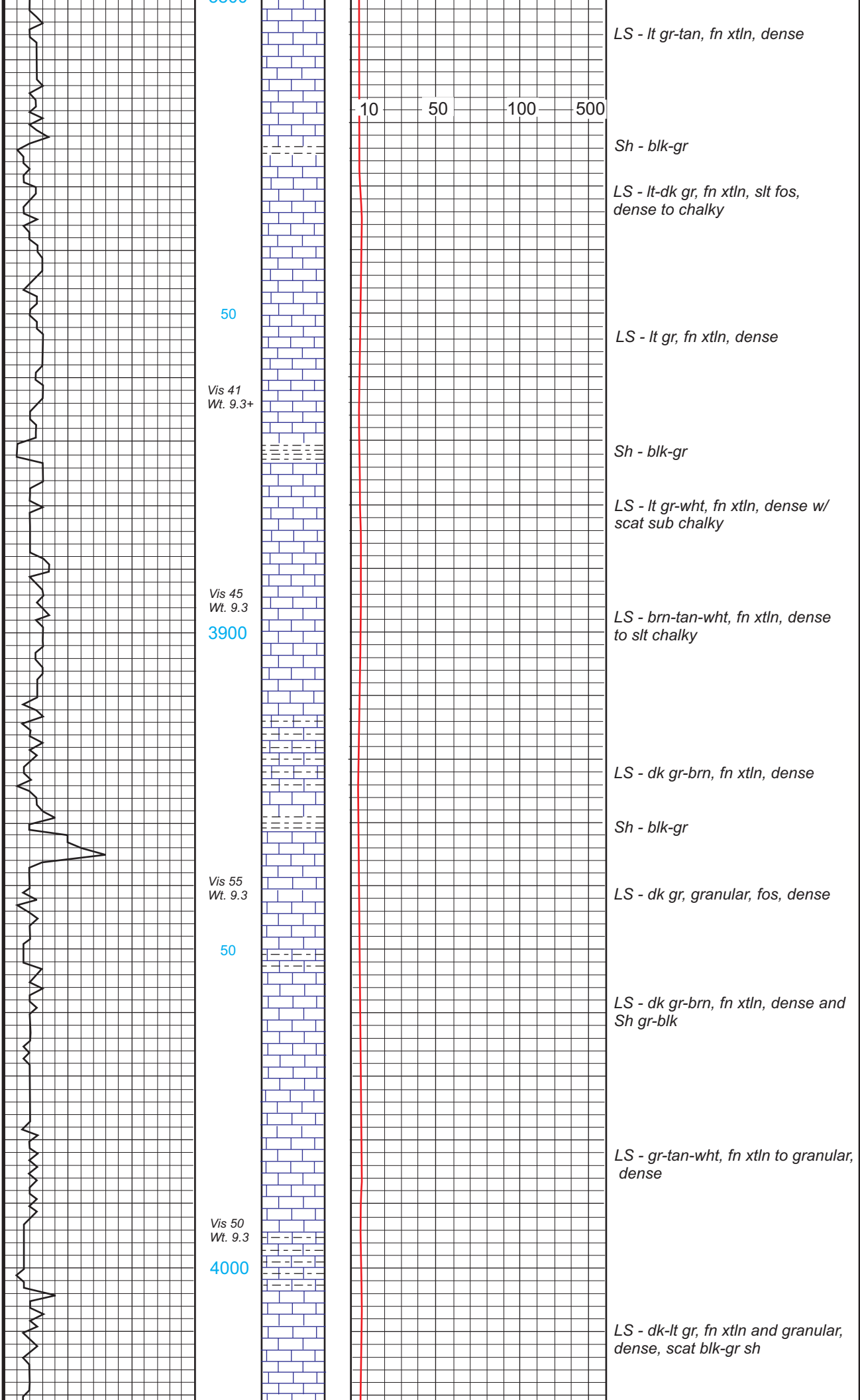


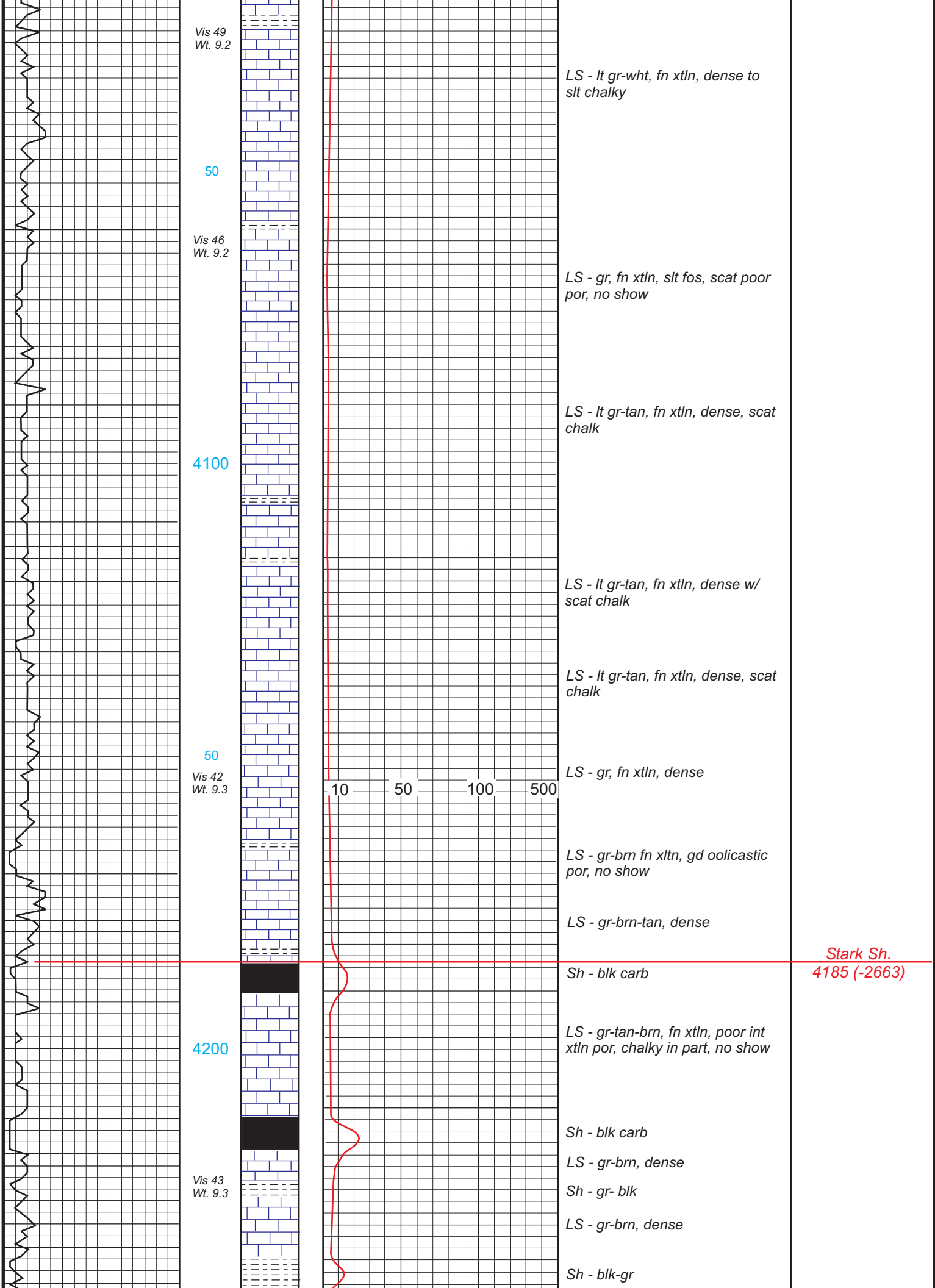


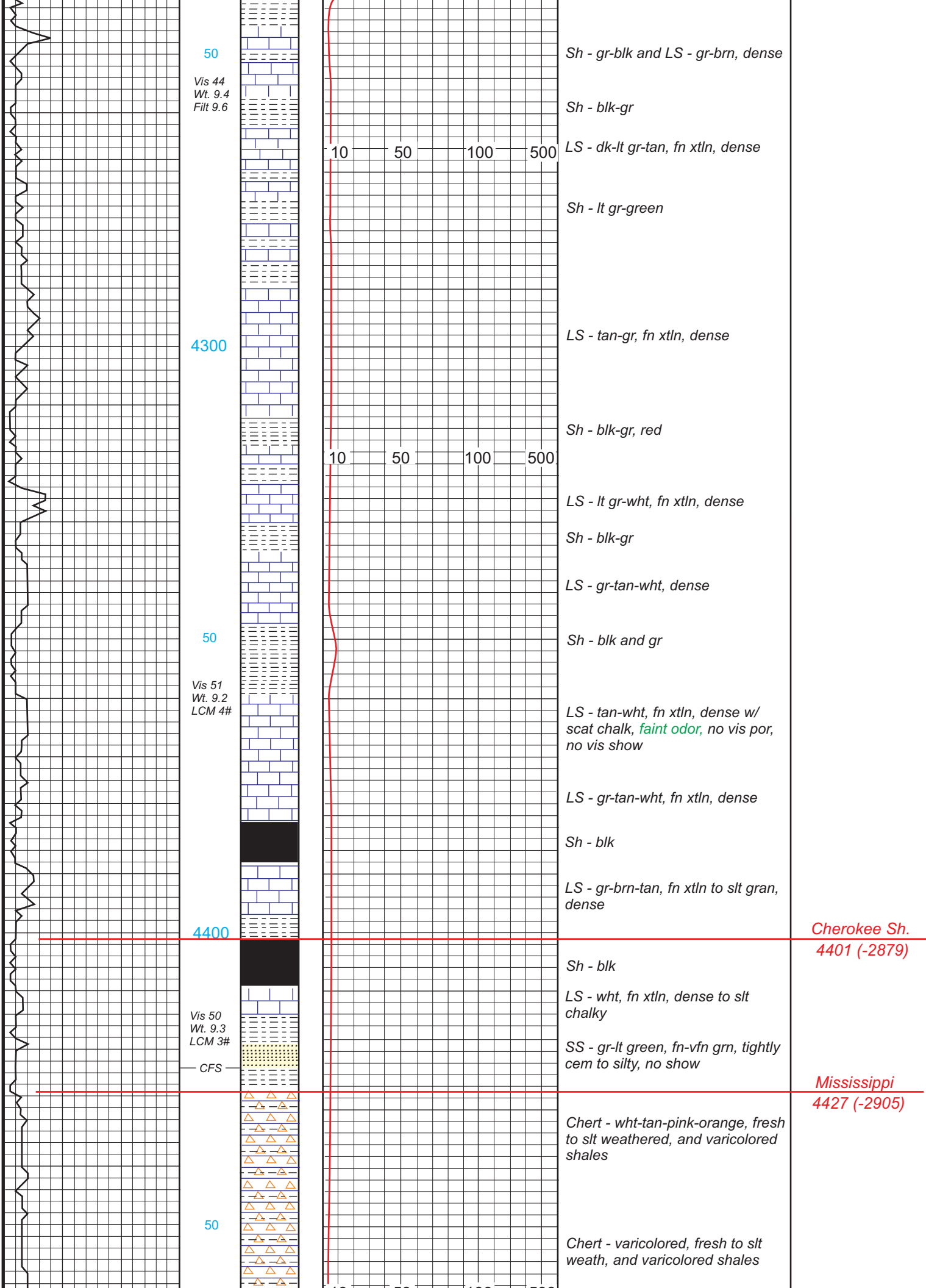


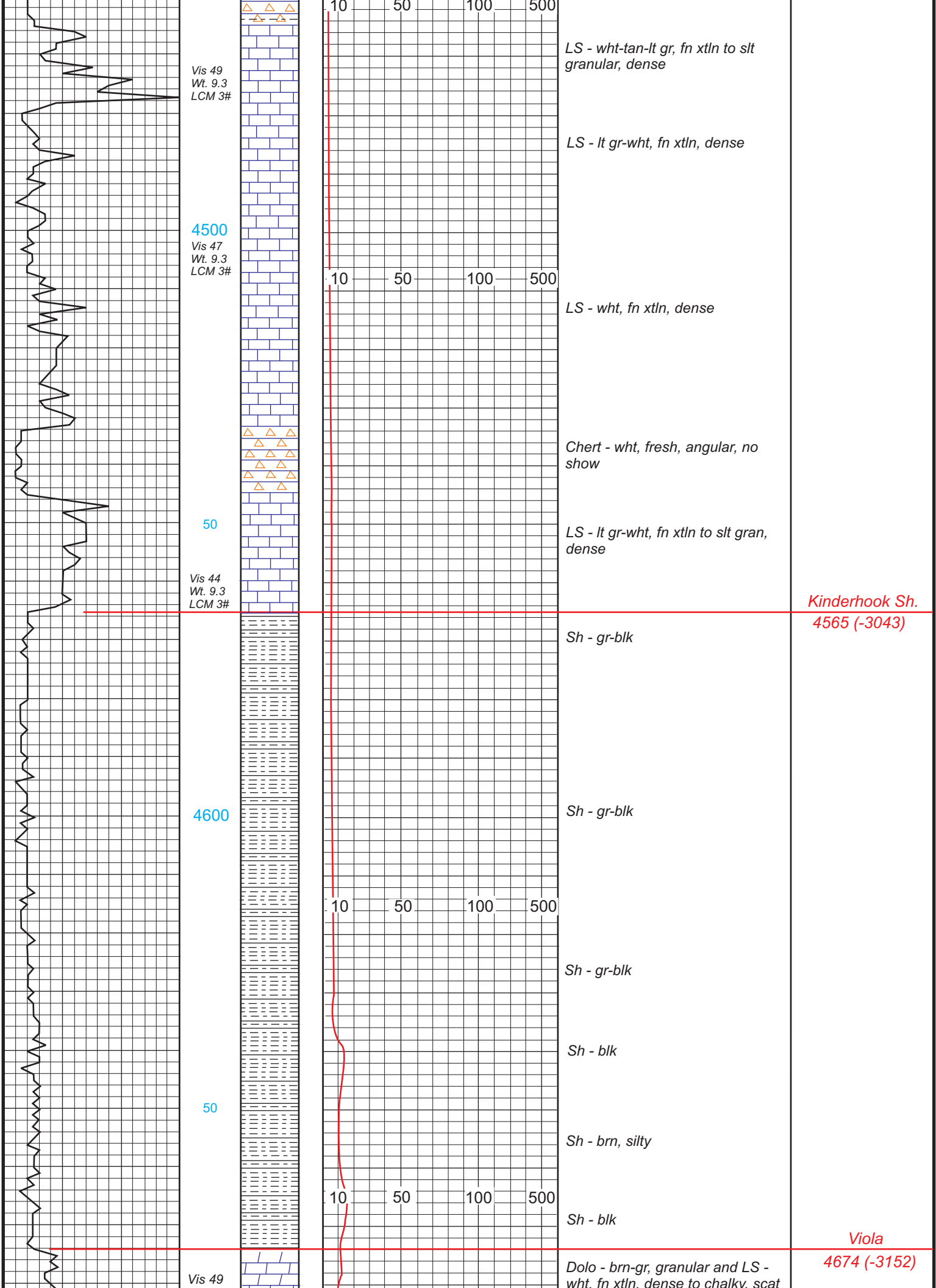


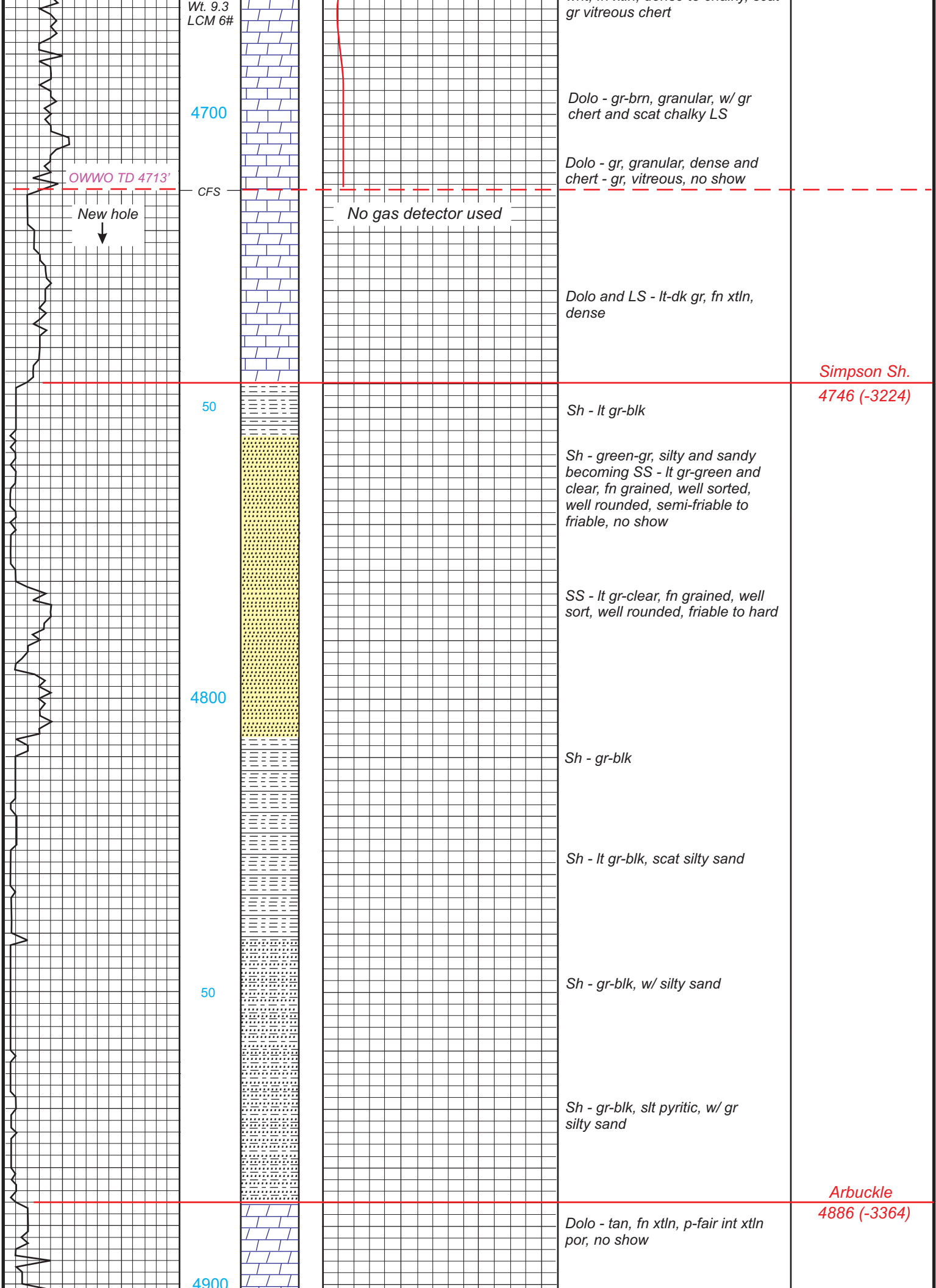


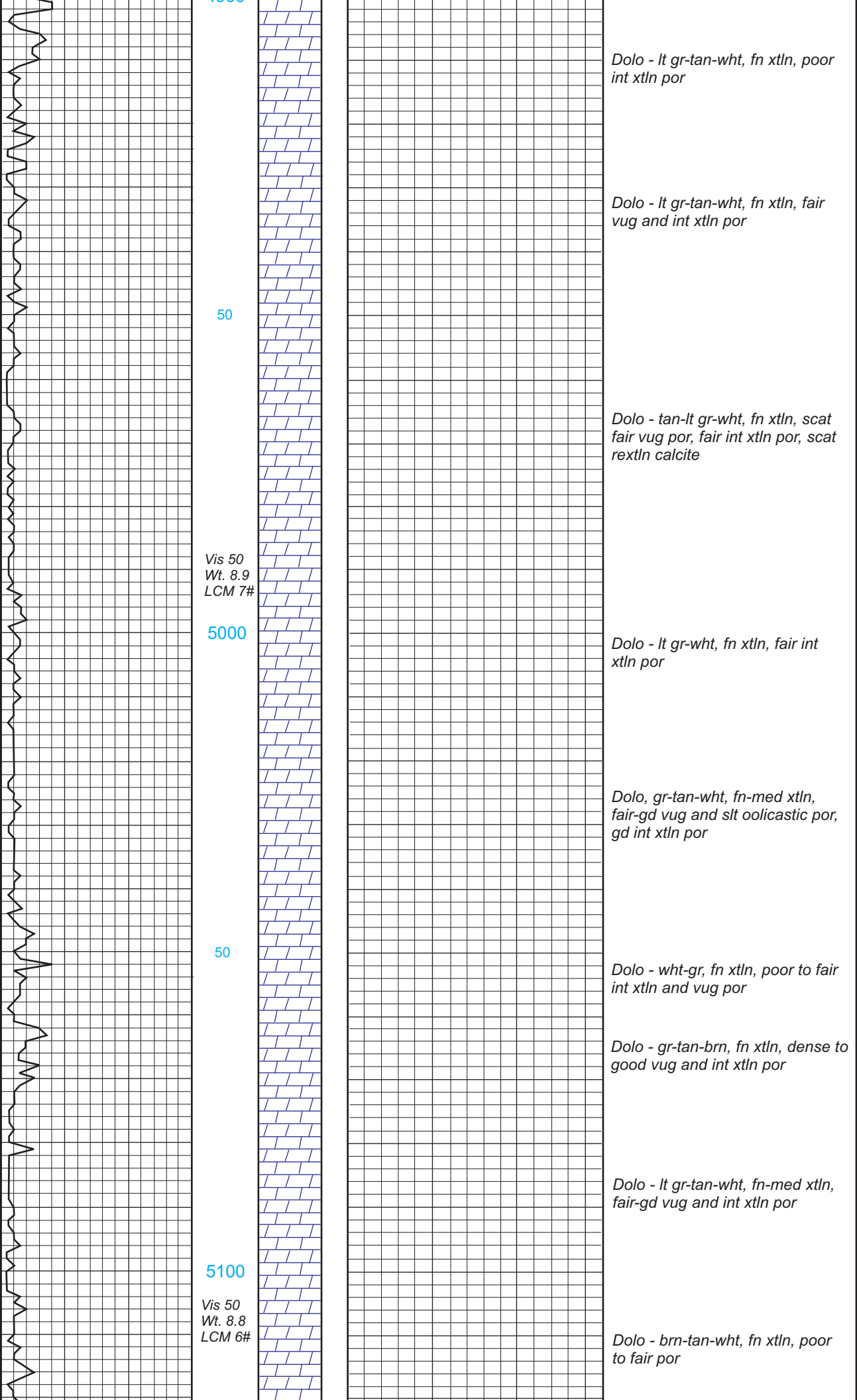


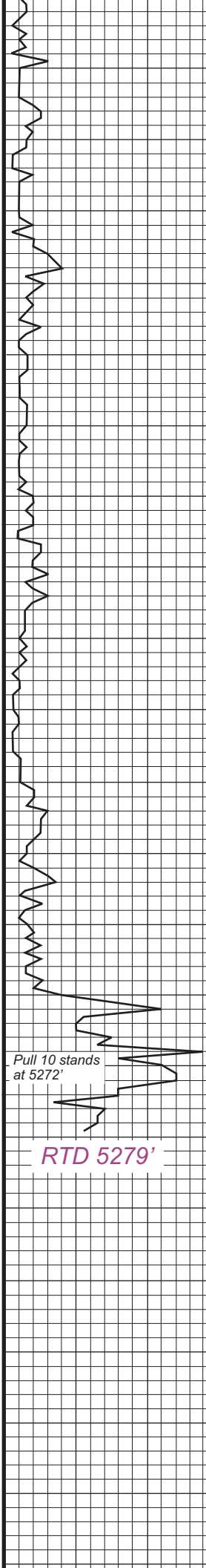












Vis 50
Wt. 8.9
LCM 6#

5200

50

Vis 65
Wt. 9.0
LCM 6#

Pull 10 stands
at 5272'

RTD 5279'

5300

Dolo - tan-lt gr-wht, fn xtln, some
med xtln, fair vug to int xtln por

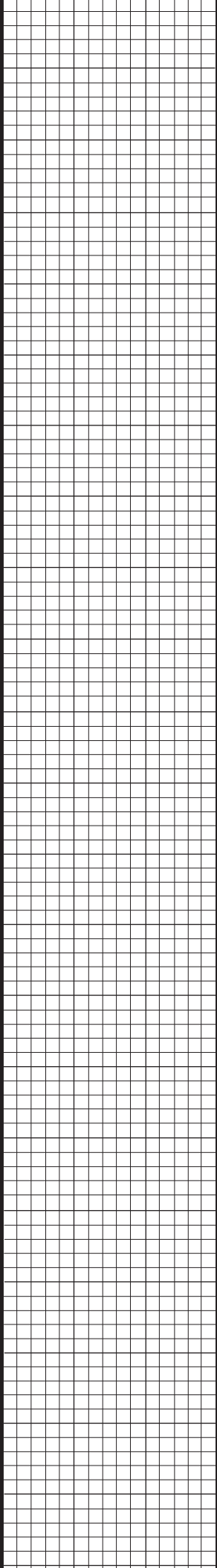
Dolo - gr-tan-wht, fn xtln, poor to
fair int xtln por

Dolo - lt gr-wht, fn and mec xtln,
fair-gd vug and int xtln por

Dolo - gr-tan, fn xtln, scat fair int
xtln por to tight

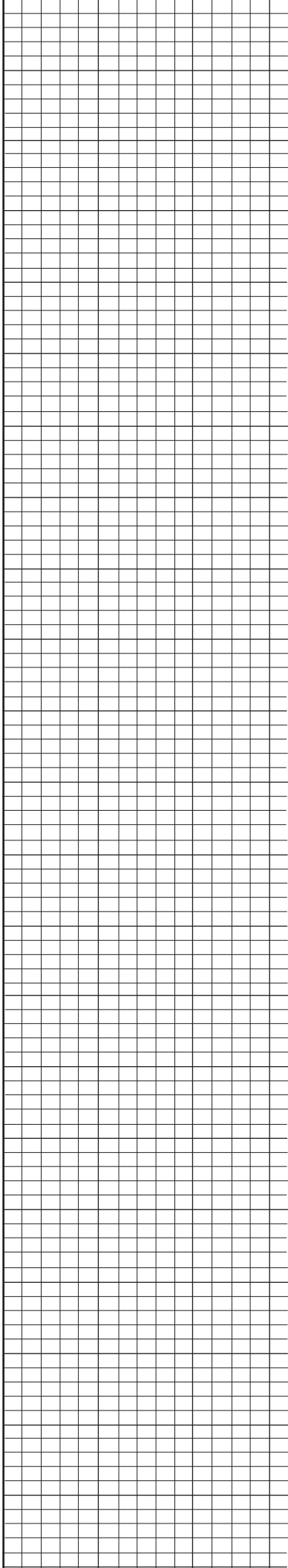
Dolo - lt gr-tan-brn, fn and med
xtln, fair int xtln por

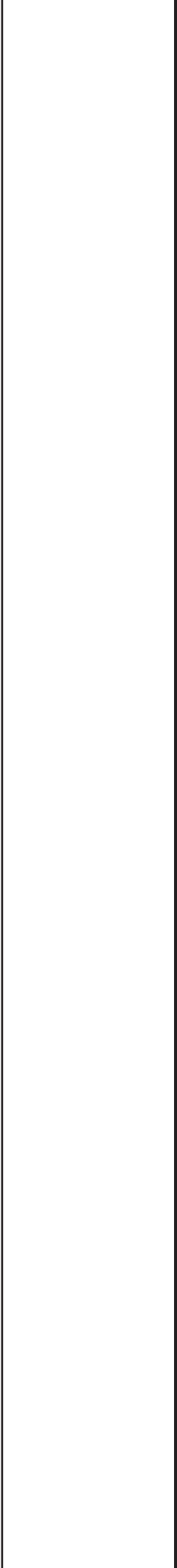
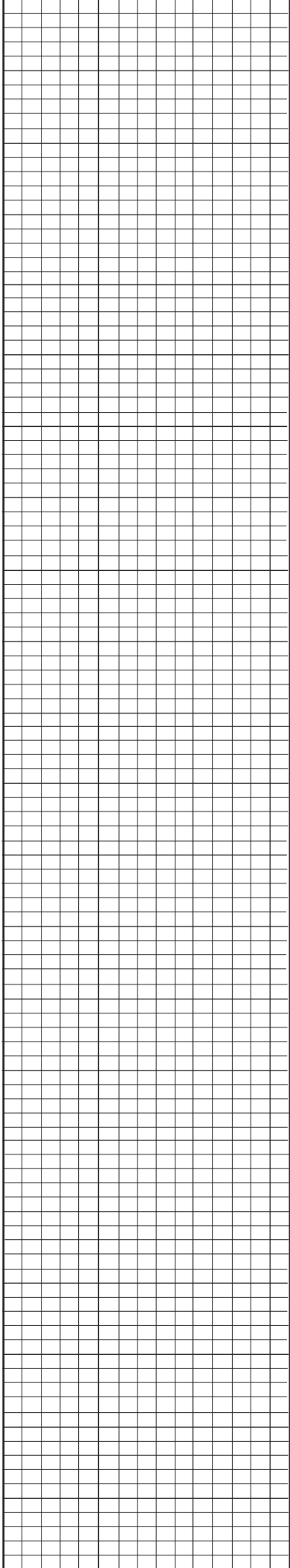
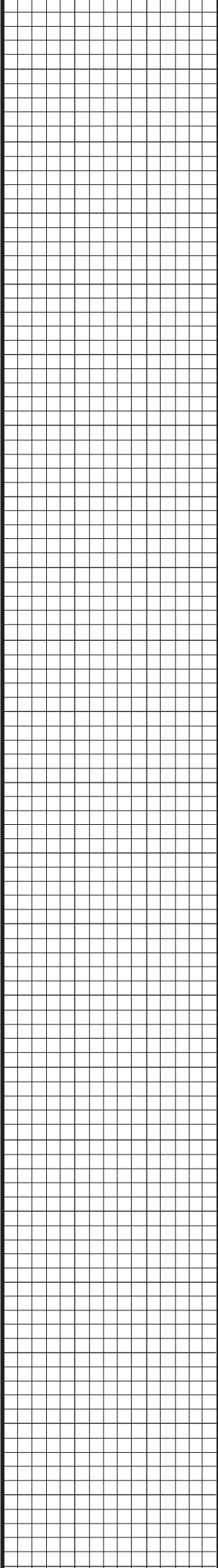
Dolo - wht-tan-gr, fn xtln poor
vug and int xtln por

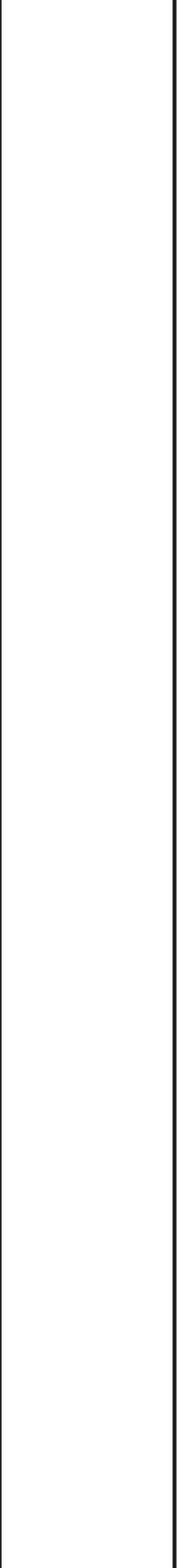
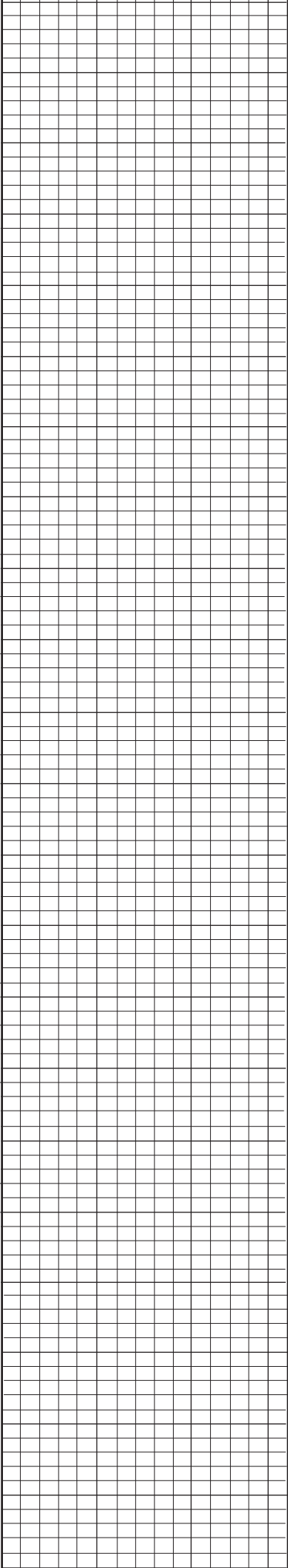
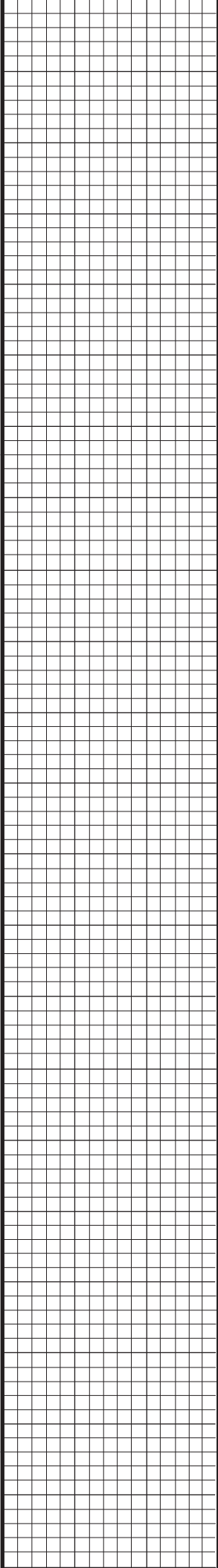


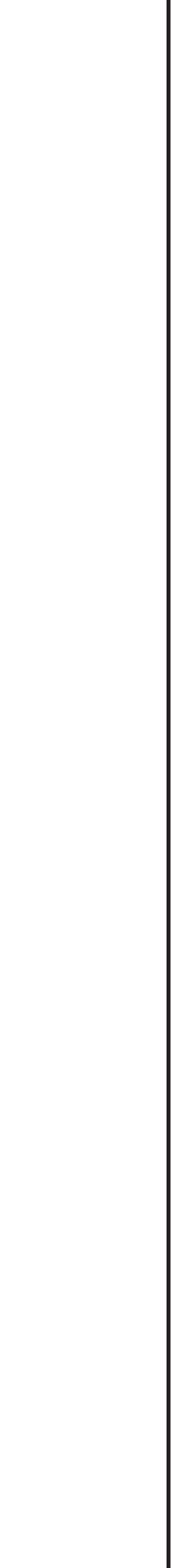
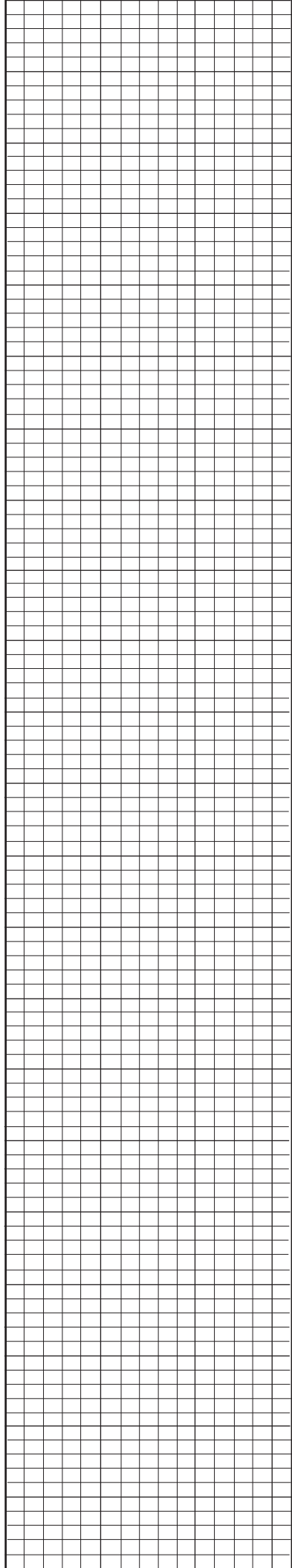
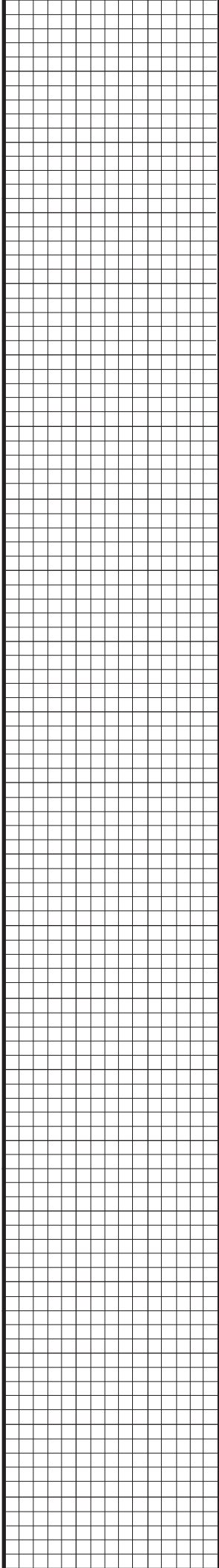
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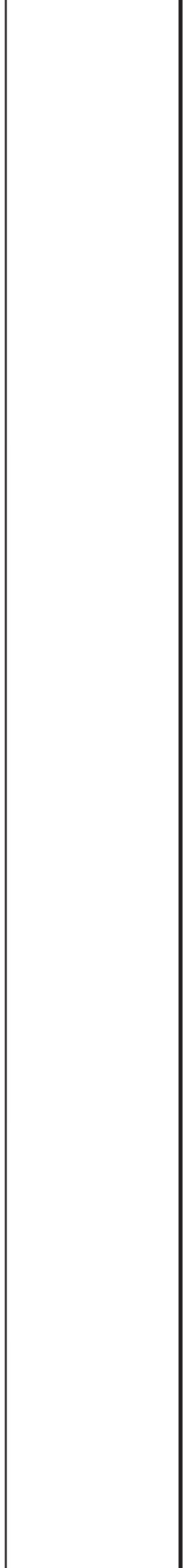
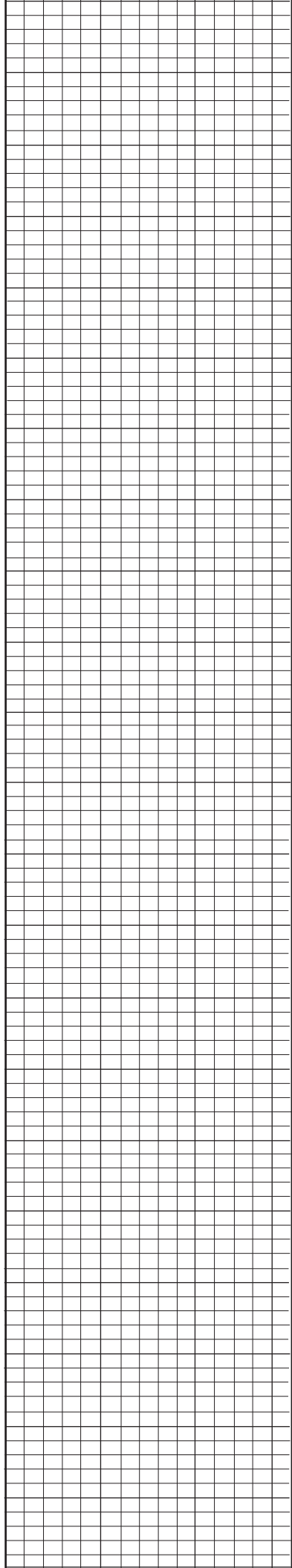
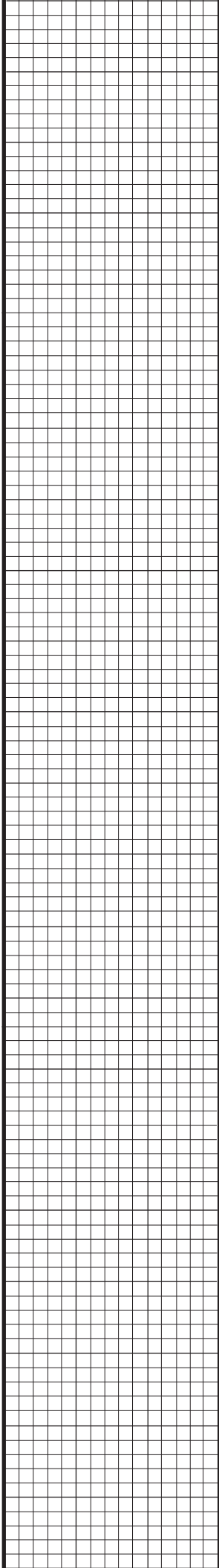
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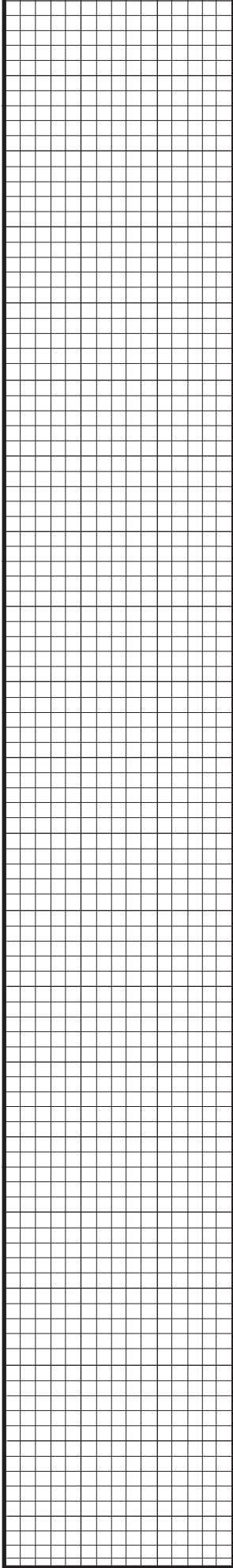
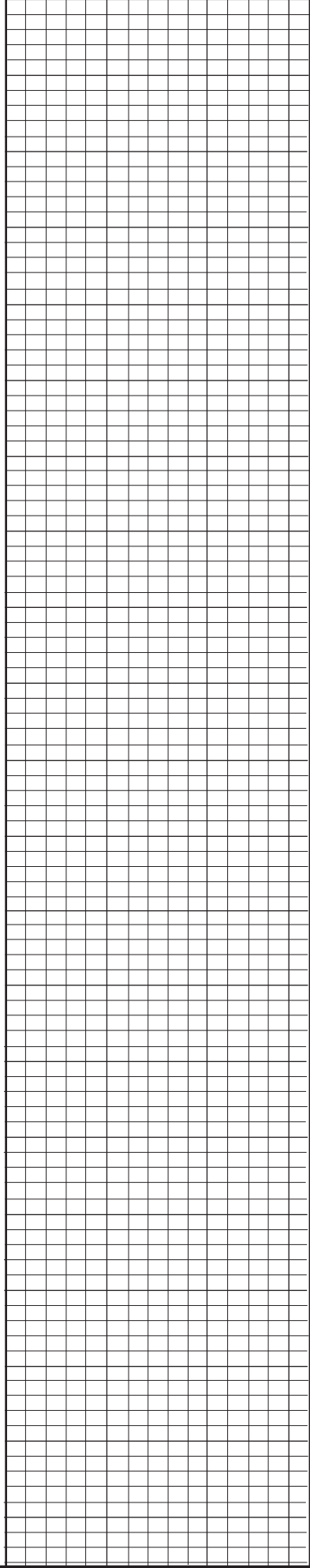










					
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