



COMPENSATED DENSITY NEUTRON LOG

Company	BEREXCO LLC	Location:	API # : 15-051-27102	Other Services
Well	BRAUN #4		560' FSL & 330' FEL	ML DIL
Field	TOULON			
County	ELLIS			
State	KS			
Permanent Datum	SEC 3 TWP 14S RGE 17W			Elevation
Log Measured From	Ground Level			K.B. 1999'
Drilling Measured From	KB 10' AGL			D.F. 1997'
	KB			G.L. 1989'
Date	10/12/2023			
Run Number	One			
Depth Driller	3625			
Depth Logger	3624			
Bottom Logged Interval	3604			
Top Log Interval	2900			
Casing Driller	8 5/8" @ 318'			
Casing Logger	318'			
Bit Size	7 7/8"			
Type Fluid in Hole	Chemical Mud			
Density / Viscosity	8.8/57			
pH / Fluid Loss	11.5/8.0			
Source of Sample	Calculated			
Rm @ Meas. Temp	1.6@70degf			
Rmf @ Meas. Temp	1.2@70degf			
Rmc @ Meas. Temp	1.9@70degf			
Source of Rmf / Rmc	Calculated			
Rm @ BHT	1.14@98degf			
Time Circulation Stopped	7:00 A.M.			
Time Logger on Bottom	9:00 A.M.			
Maximum Recorded Temperature	98degf			
Equipment Number	T-605			
Location	HAYS, KS.			
Recorded By	COLBY DREILING			
Witnessed By	CHAD COUNTS			

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

FROM TOULON, GO EAST 3 MILES TO 320TH AVE, THEN JUST OVER 1 NORTH THEN WEST INTO.

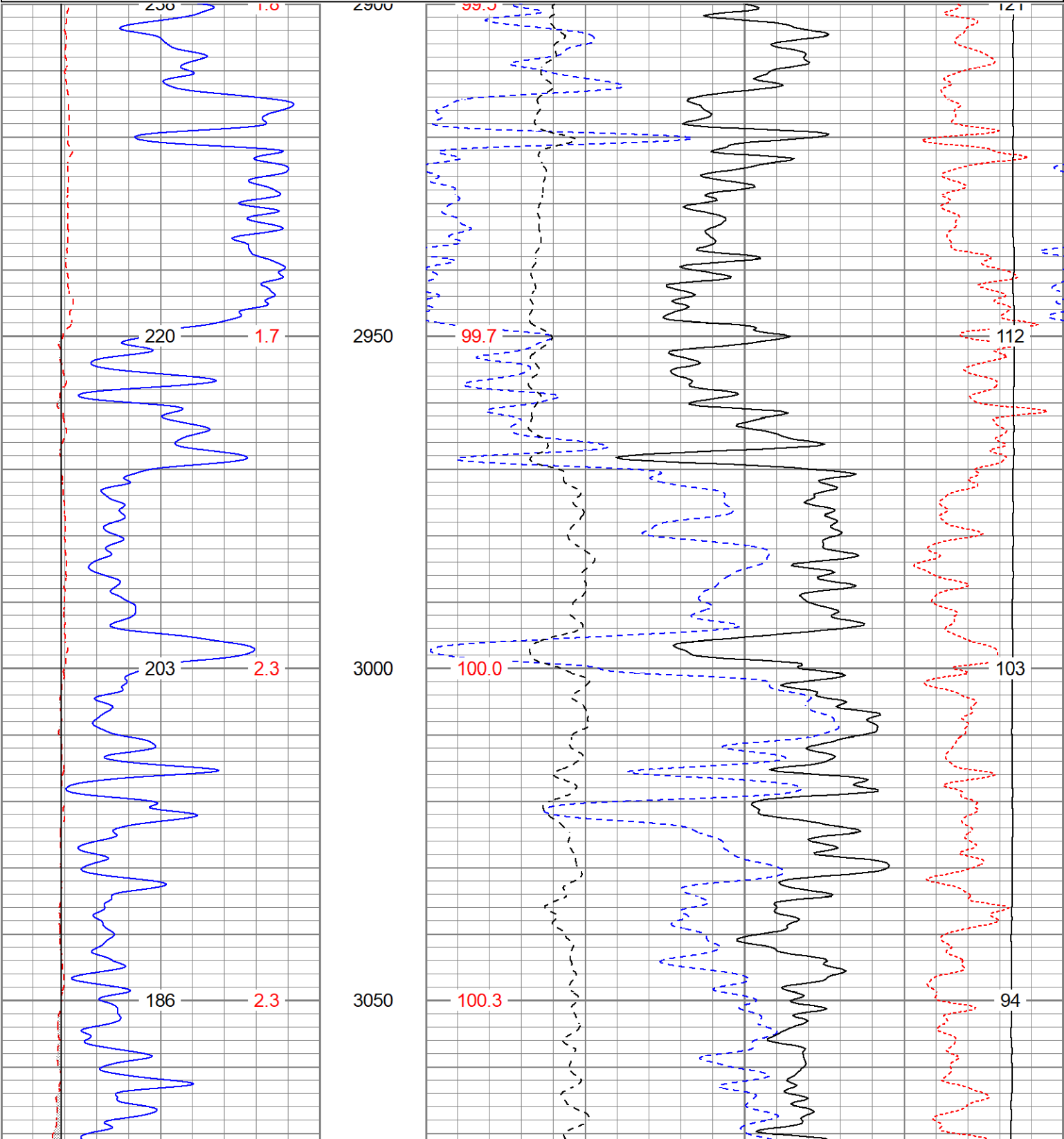
Thank you for using Gemini Wireline
785-625-1182

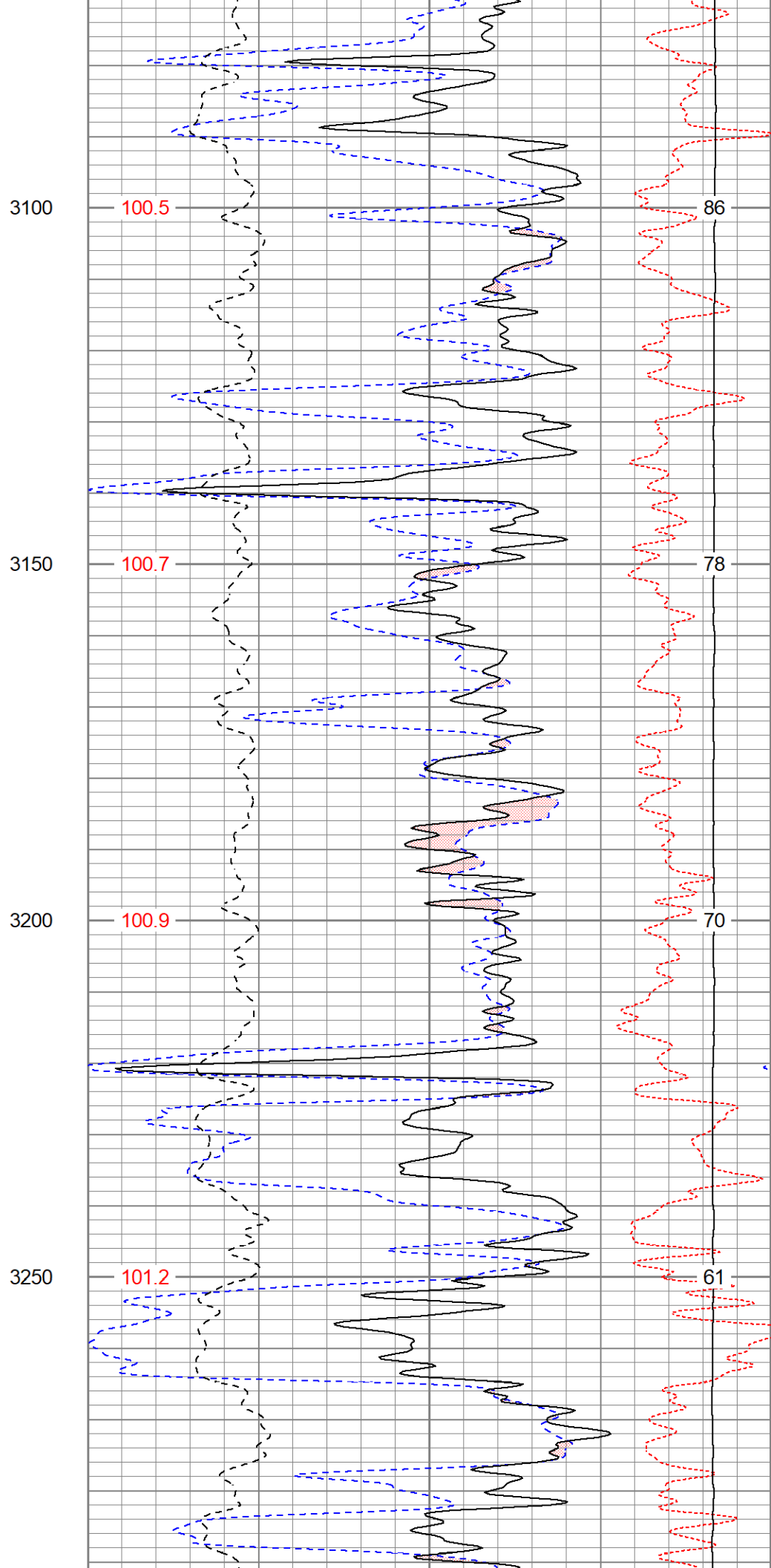
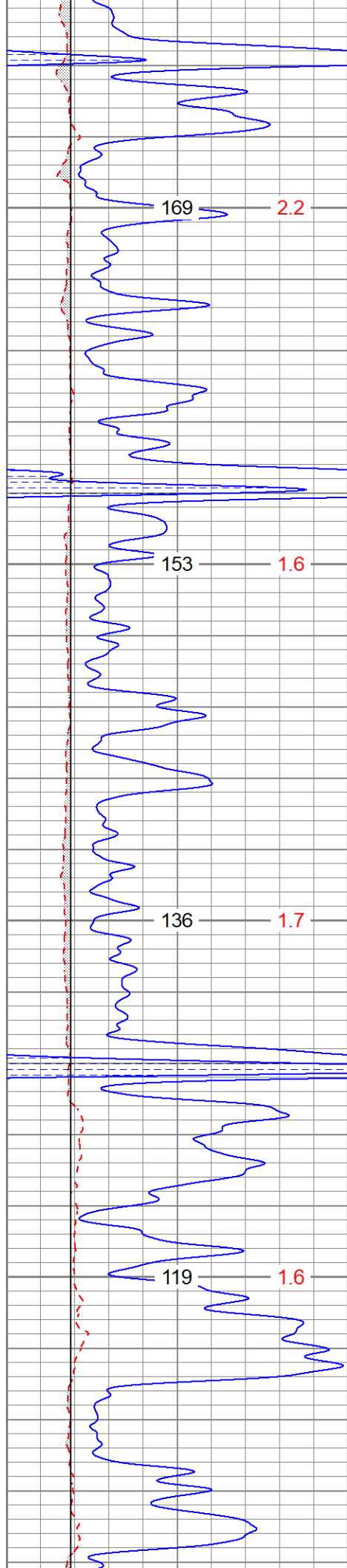


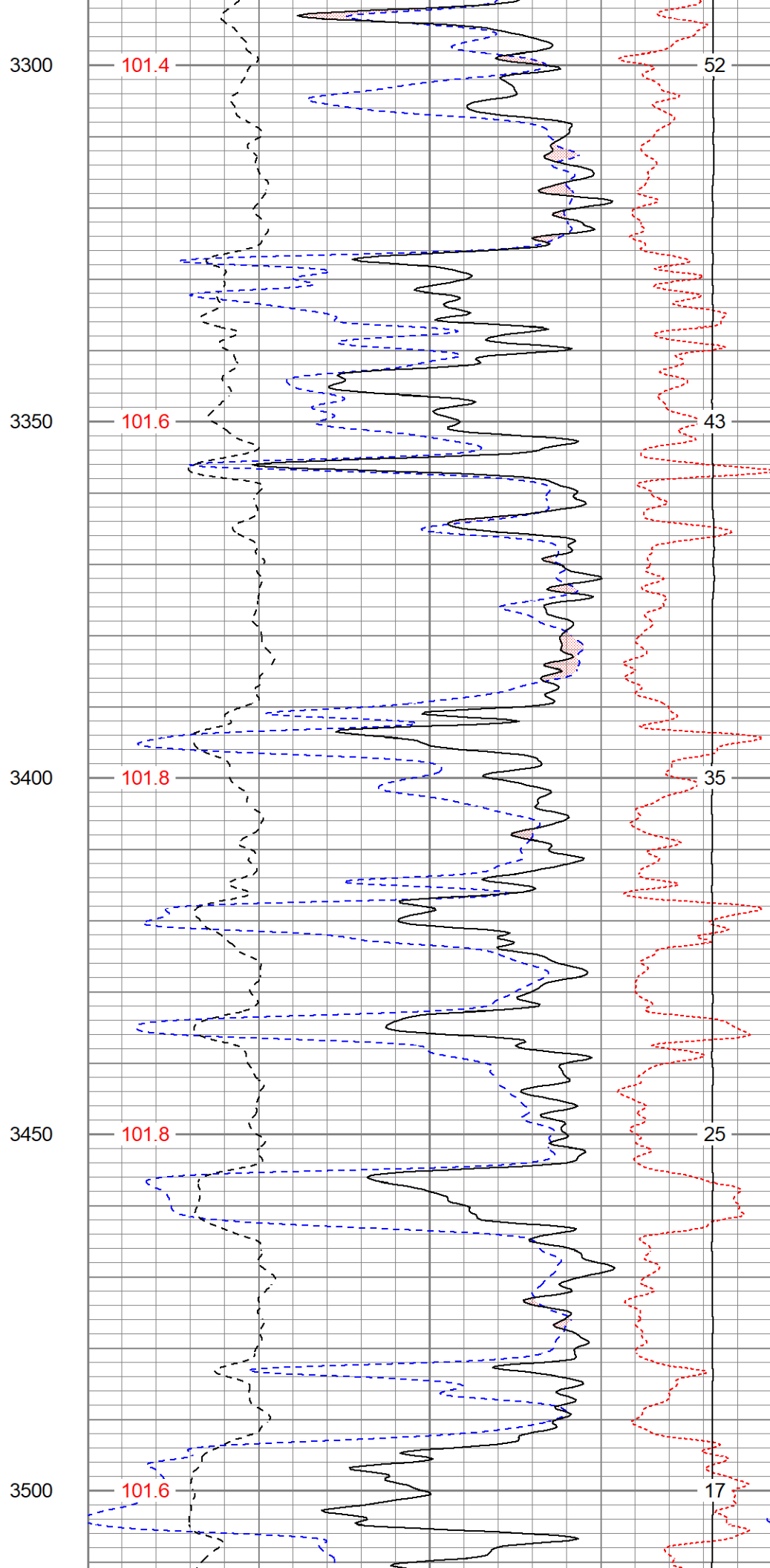
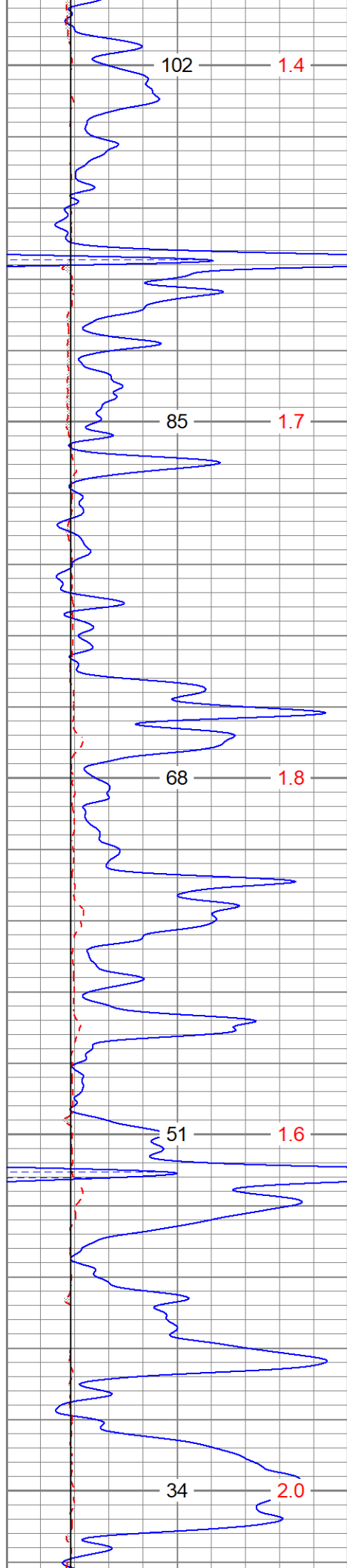
MAIN PASS

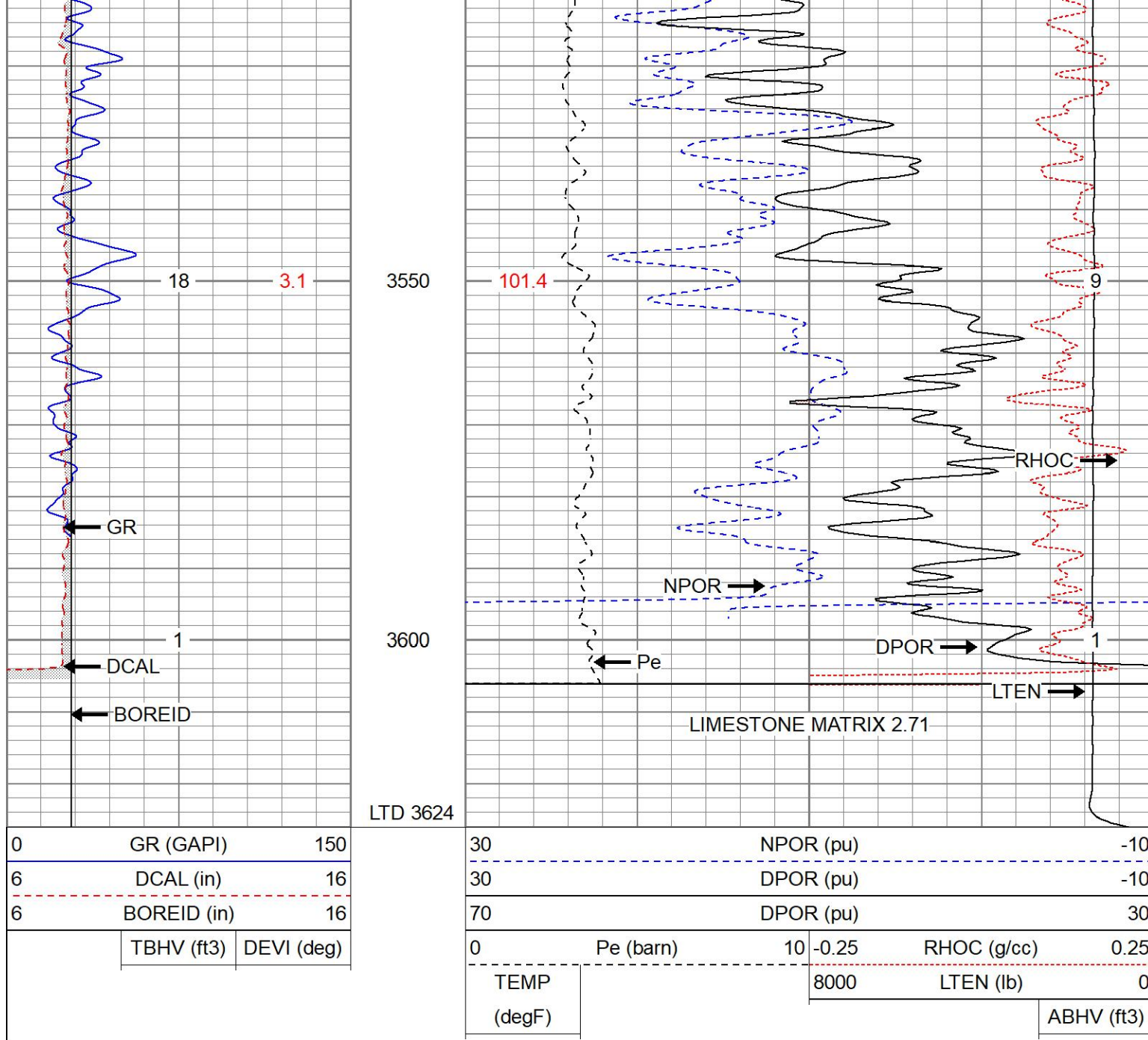
Database File	bbraun#4oh.db
Dataset Pathname	pass3.1
Presentation Format	digital_kcdnl
Dataset Creation	Thu Oct 12 10:40:48 2023
Charted by	Depth in Feet scaled 1:240

0GR (GAPI)150			30NPOR (pu)-10		
6DCAL (in)16			30DPOR (pu)-10		
6BOREID (in)16			70DPOR (pu)30		
TBHV (ft3)DEVI (deg)			0Pe (barn)10-0.25RHOC (g/cc)0.25		
			TEMP8000LTEN (lb)0		
			(degF)ABHV (ft3)		





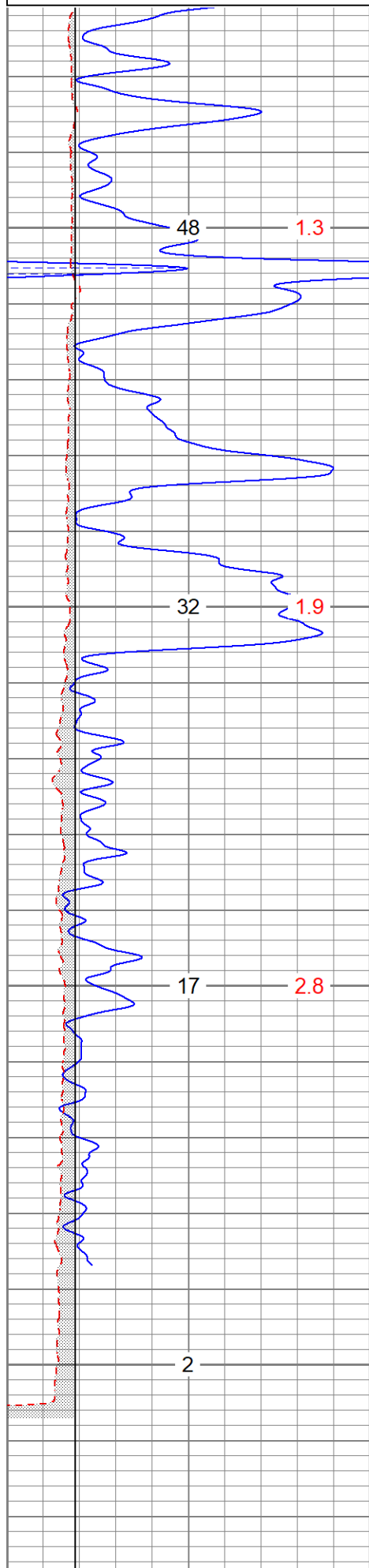




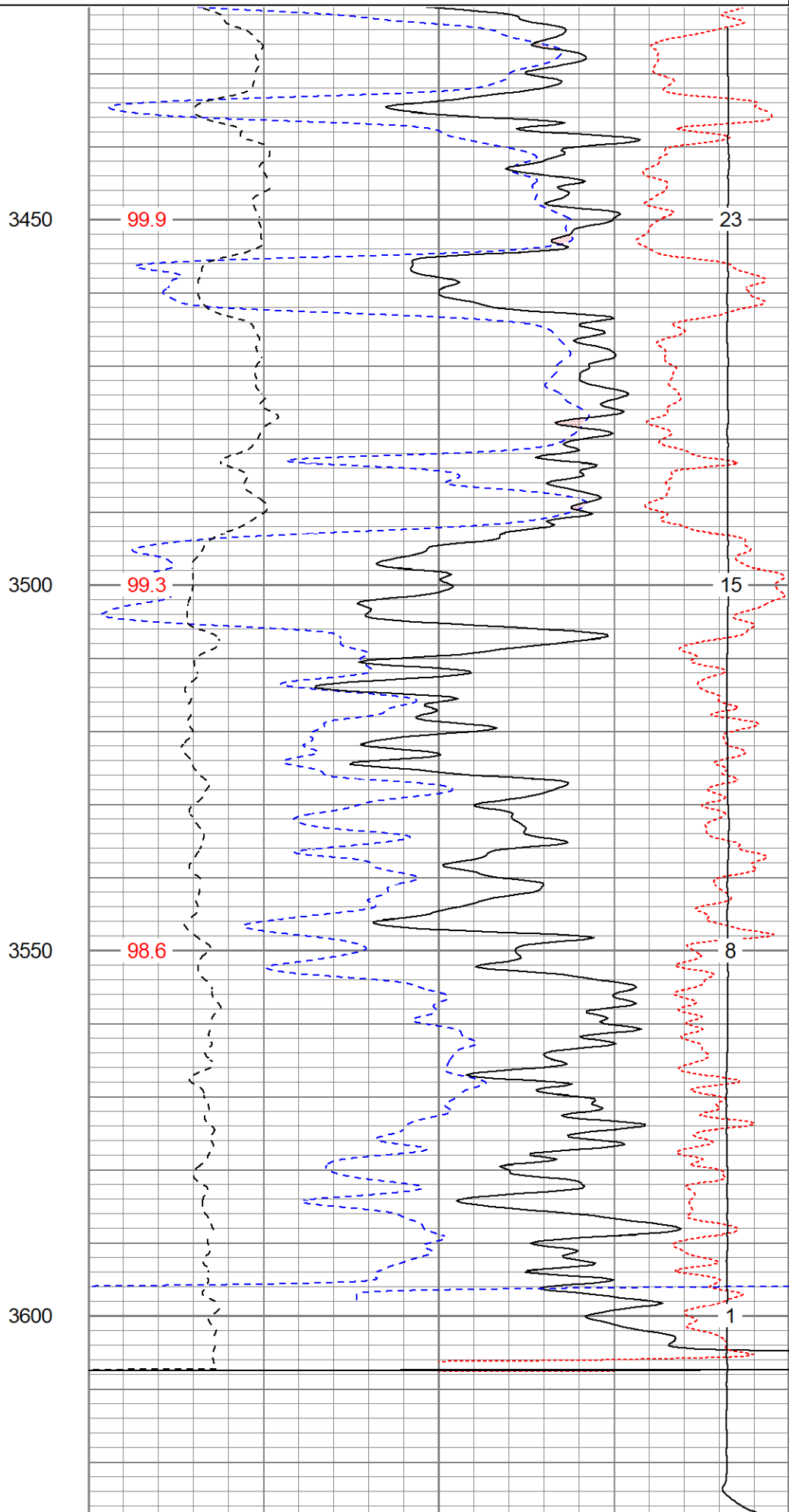
REPEAT SECTION

Database File bbraun#4oh.db
 Dataset Pathname pass2.1
 Presentation Format digital_kcdnl
 Dataset Creation Thu Oct 12 10:45:13 2023
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
6	BOREID (in)	16	70	DPOR (pu)	30
	TBHV (ft3)	DEVI (deg)	0	Pe (barn)	10
			TEMP (degF)	8000	LTEN (lb)
					0
					ABHV (ft3)



0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16



30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

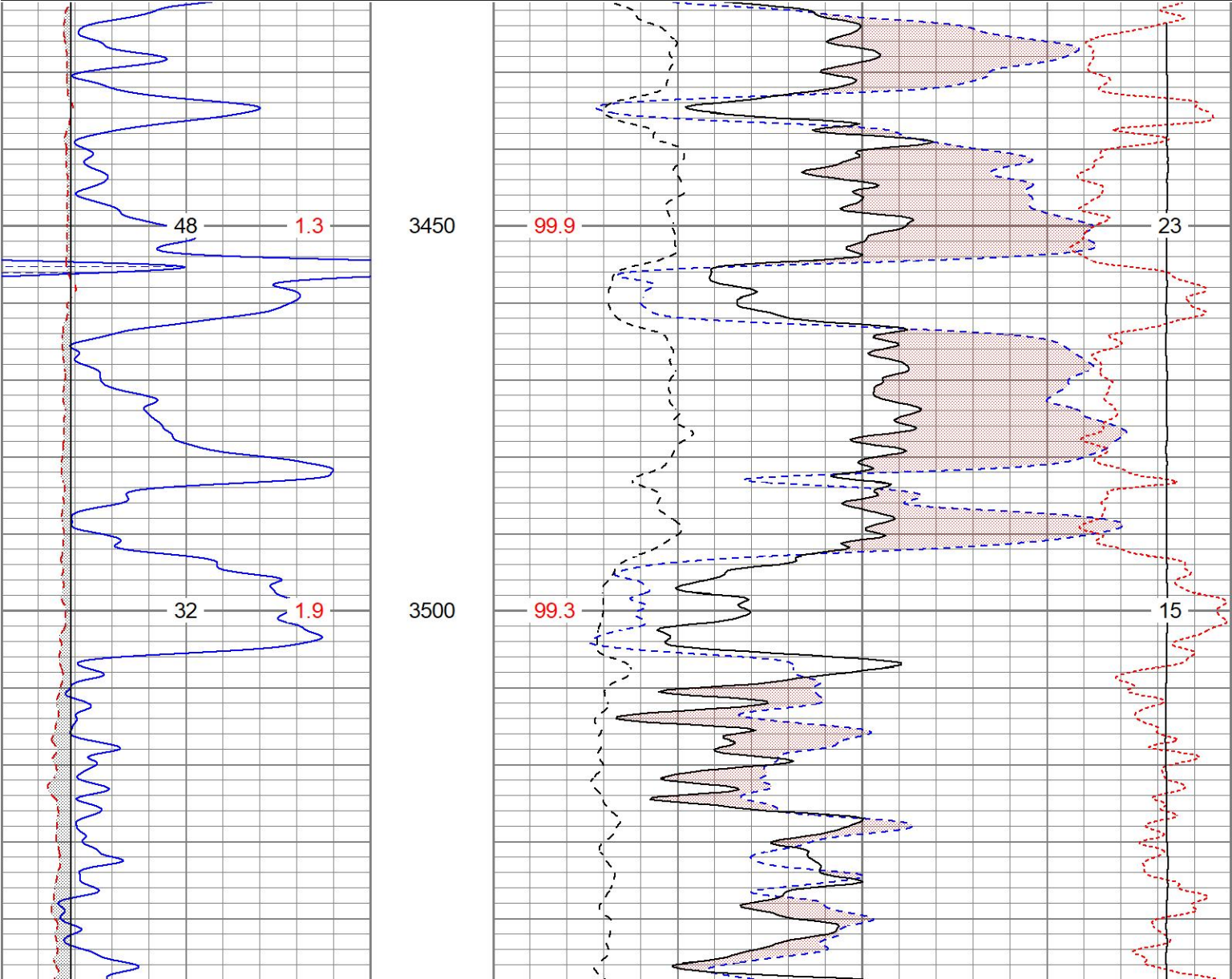
BOREID (in)	16	0	Pe (barn)	10	-0.25	RHOC (g/cc)	0.25
TBHV (ft3)	DEVI (deg)	TEMP (degF)	8000	LTEN (lb)	0	ABHV (ft3)	

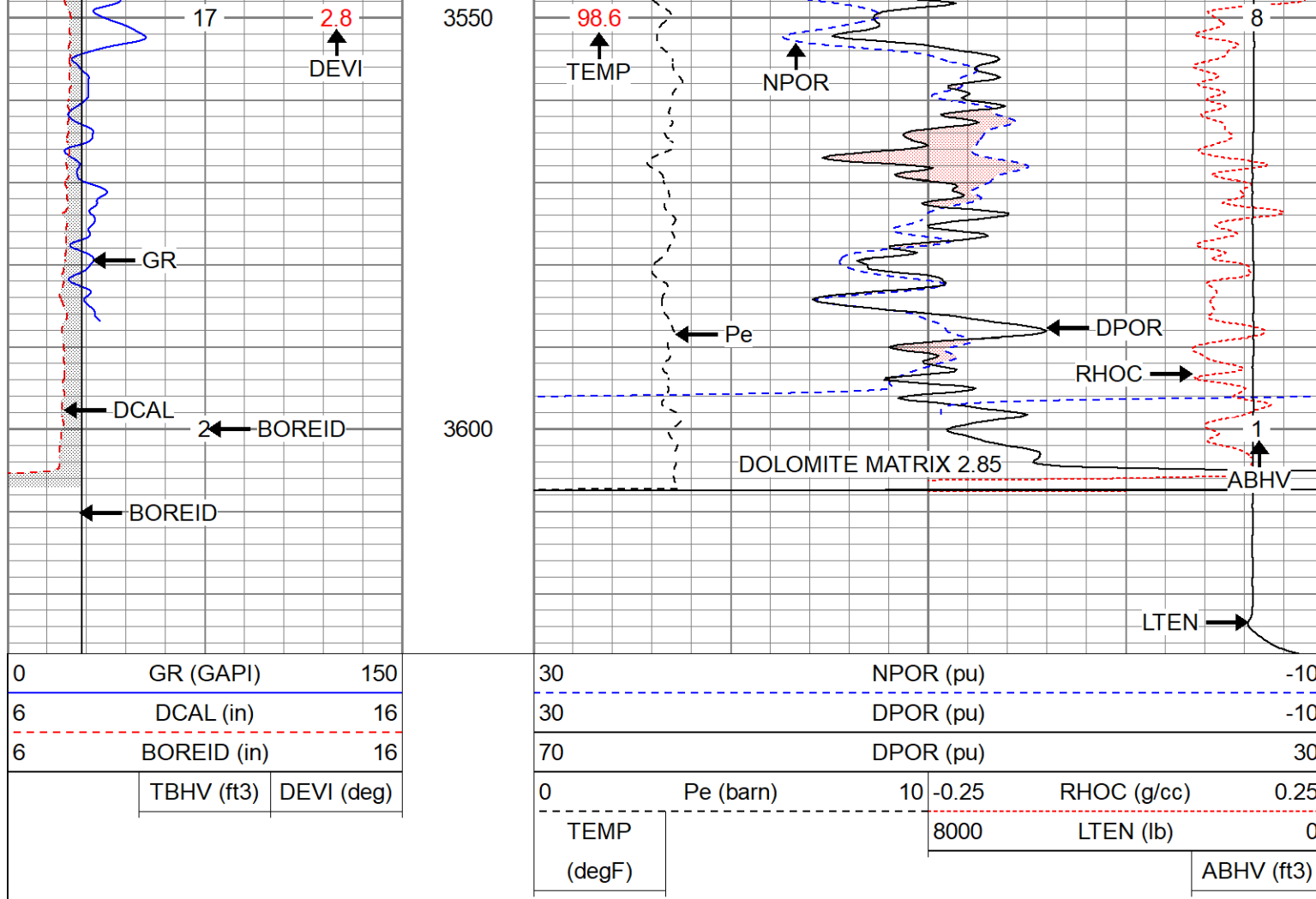


DOLOMITE MATRIX 2.85

Database File	bbraun#4oh.db
Dataset Pathname	pass2Dol.2
Presentation Format	digital_kcdnl
Dataset Creation	Tue Oct 17 12:11:06 2023
Charted by	Depth in Feet scaled 1:240

0GR (GAPI)150			30NPOR (pu)-10		
6DCAL (in)16			30DPOR (pu)-10		
6BOREID (in)16			70DPOR (pu)30		
TBHV (ft3)DEVI (deg)			0Pe (barn)10-0.25RHOC (g/cc)0.25		
			8000LTEN (lb)0		
			ABHV (ft3)		





Calibration Report									
Database File	bbraun#4oh.db								
Dataset Pathname	pass2.1								
Dataset Creation	Thu Oct 12 10:45:13 2023								
Dual Induction Calibration Report									
Serial-Model:					1842-ADM				
Surface Cal Performed:					Mon Sep 20 22:00:42 2021				
Downhole Cal Performed:					Thu Sep 14 13:06:48 2023				
After Survey Verification Performed:					Thu Sep 14 13:02:29 2023				
Surface Calibration									
Readings				References			Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.018	0.672	V	0.000	350.000	mmho/m	535.475	-9.896	
Medium	0.003	0.769	V	0.000	400.000	mmho/m	522.607	-1.745	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.018	0.672	V	0.000	350.000	mmho/m	535.240	-9.549	
Medium	0.003	0.768	V	0.000	550.000	mmho/m	718.637	-2.088	
Downhole Calibration									
Readings				References			Results		
Internal:	Zero	Cal		Zero	Cal		m	b	

Deep	-0.210	349.810	mmho/m	-0.343	349.810	mmho/m	1.000	-0.133
Medium	6.952	396.760	mmho/m	-0.226	399.745	mmho/m	1.026	-7.360
Shallow	2.495	0.026	V	500.000	2.000	Ohm-m	201.711	-3.319

After Survey Verification

Readings			Targets			Results		
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	32.030	5.643	mmho/m	1.000	-0.133
Medium	0.000	0.000	mmho/m	6.952	396.760	mmho/m	1.026	-7.360
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Admyr Lithodensity Calibration Report

Serial-Model:	1C-C
Source:	Blue2
Master Calibration Performed:	Tue Aug 30 10:20:37 2022

Master Calibration

	Density			Far Detector	Near Detector	
Magnesium	1.670	g/cc		6362.49	3546.71	cps
Aluminium	2.640	g/cc		1733.54	2362.69	cps
Aluminium+Sleeve	2.617	g/cc		1657.01	2197.69	cps
Spine Angle = 72.65				Density/Spine Ratio = 0.712		
	PE			NLITH	NHARD	
Magnesium	2.000	barn		2520.00	1620.00	cps
Aluminium	3.000	barn		1926.00	1699.00	cps
Aluminium+Sleeve	5.000	barn		915.00	1230.00	cps
M = 0.370				B = -0.079	R = 0.999	
	Size			Reading		
Small Ring	8.00	in		8.61	V	
Large Ring	14.30	in		12.40	V	

Neutron Calibration Report

Serial Number:	AD5139	
Tool Model:	ADMY5139	
Performed:	(Not Performed)	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Temperature Calibration Report

Serial Number:	WithMC				
Tool Model:	WMC				
Performed:	Fri Apr 19 12:15:04 2019				
	Reference			Reading	
Low Reference:	0.00	degF	0.00	degF	
High Reference:	1.00	degF	1.00	degF	
Gain:	1.00				
Offset:	0.00				

Sheet: 0.00
Delta Spacing 1

Inclinometer Calibration Report

Performed:	Wed May 5 19:20:48 2021				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	205.00	1843.00	-1.00	1.00	gee
Y Accelerometer	205.00	1843.00	-1.00	1.00	gee
Z Accelerometer					gee

Gamma Ray Calibration Report

Serial Number:	WithMC	
Tool Model:	WMC	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps