COMPENSATED DENSITY NEUTRON LOG

Company JOHN O. FARMER, INC.
Well ZEIGLER UNIT #1
Field CONGER
County ROOKS State KS

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Well ZEIGLER UNIT #1
Field CONGER
County ROOKS
State KS

Location: API # : 15 163 24478
1520' FNL & 270' FEL

SEC 9 TWP 10S RGE 16W

Other Services
ML
DIL

Permanent Datum	Ground Level	Elevation	1897'
Log Measured From	KB 8' AGL		
Drilling Measured From	KB		

Elevation
K.B. 1905'
D.F. 1903'
G.L. 1897'

Date	4/10/2023		
Run Number	One		
Depth Driller	3460'		
Depth Logger	3460'		
Bottom Logged Interval	3440'		
Top Log Interval	2700'		
Casing Driller	8 5/8" @ 223'		
Casing Logger	223'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical Mud		
Density / Viscosity	8.9/50		
pH / Fluid Loss	9.5/8.4		
Source of Sample	Calculated		
Rm @ Meas. Temp	1.8@60degf		
Rmf @ Meas. Temp	1.35@60degf		
Rmc @ Meas. Temp	2.16@60degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	0.93@115degf		
Time Circulation Stopped	9:30 pm		
Time Logger on Bottom	12:15 am		
Maximum Recorded Temperature	115degf		
Equipment Number	T-605		
Location	HAYS, KS		
Recorded By	COLBY DREILING		
Witnessed By	AUSTIN KLAUS		

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Comments

EAST ON HW 18 OUT OF PLAINVILLE FOR 11 MILES, TURN NORTH ON 28 RD FOR 1/4 MILES, WEST INTO.

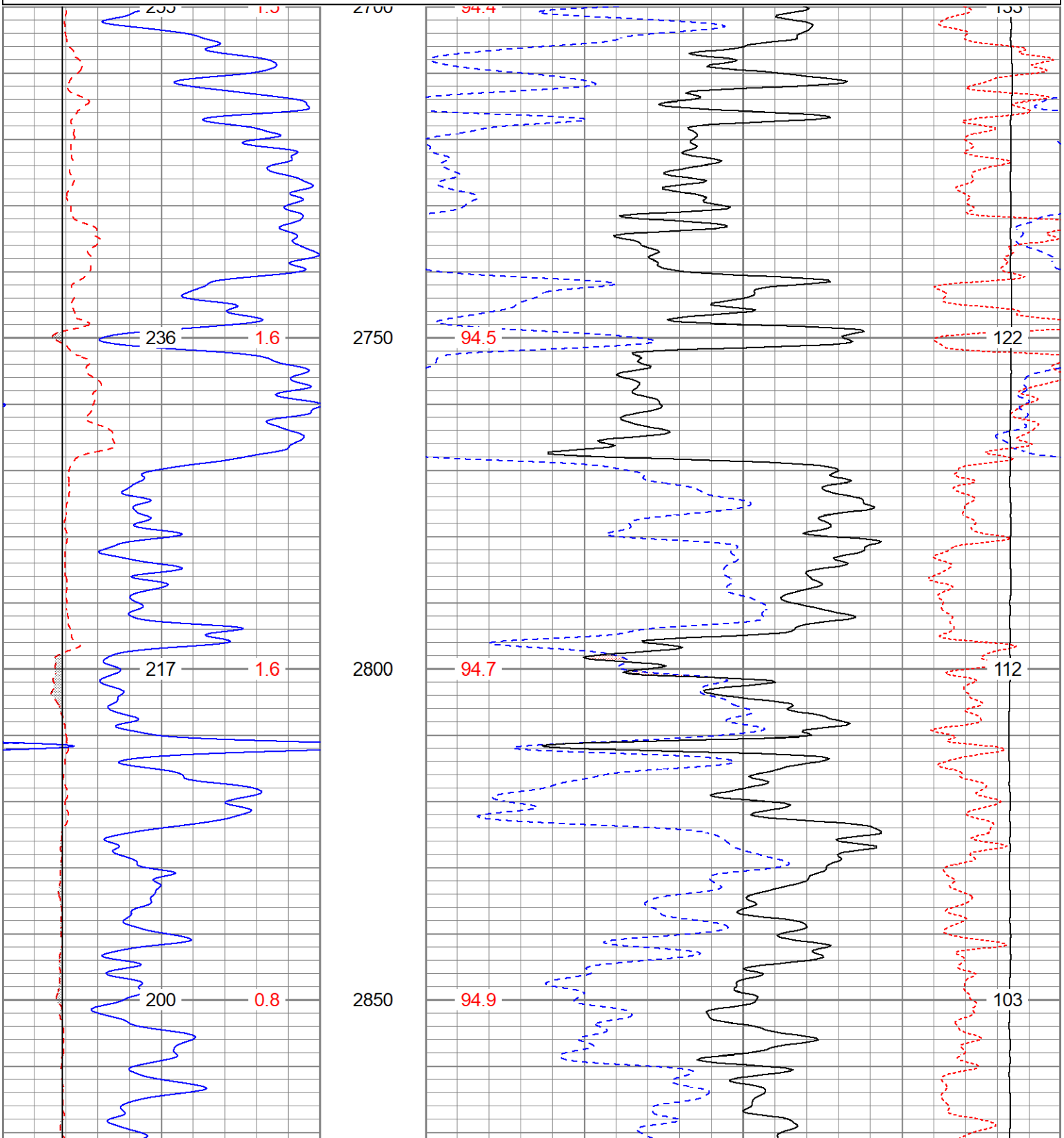
Thank you for using Gemini Wireline
785-625-1182

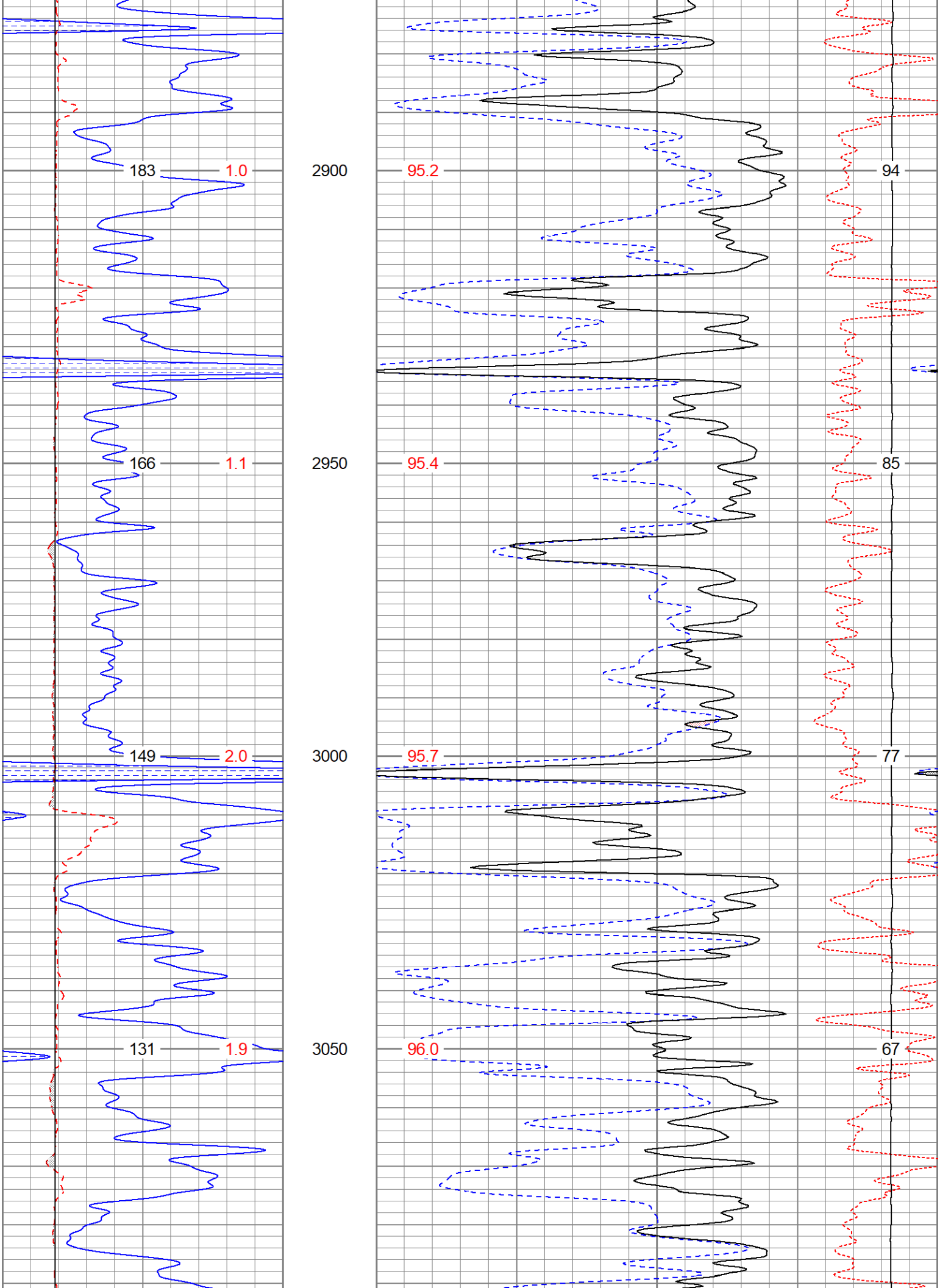
MAIN PASS

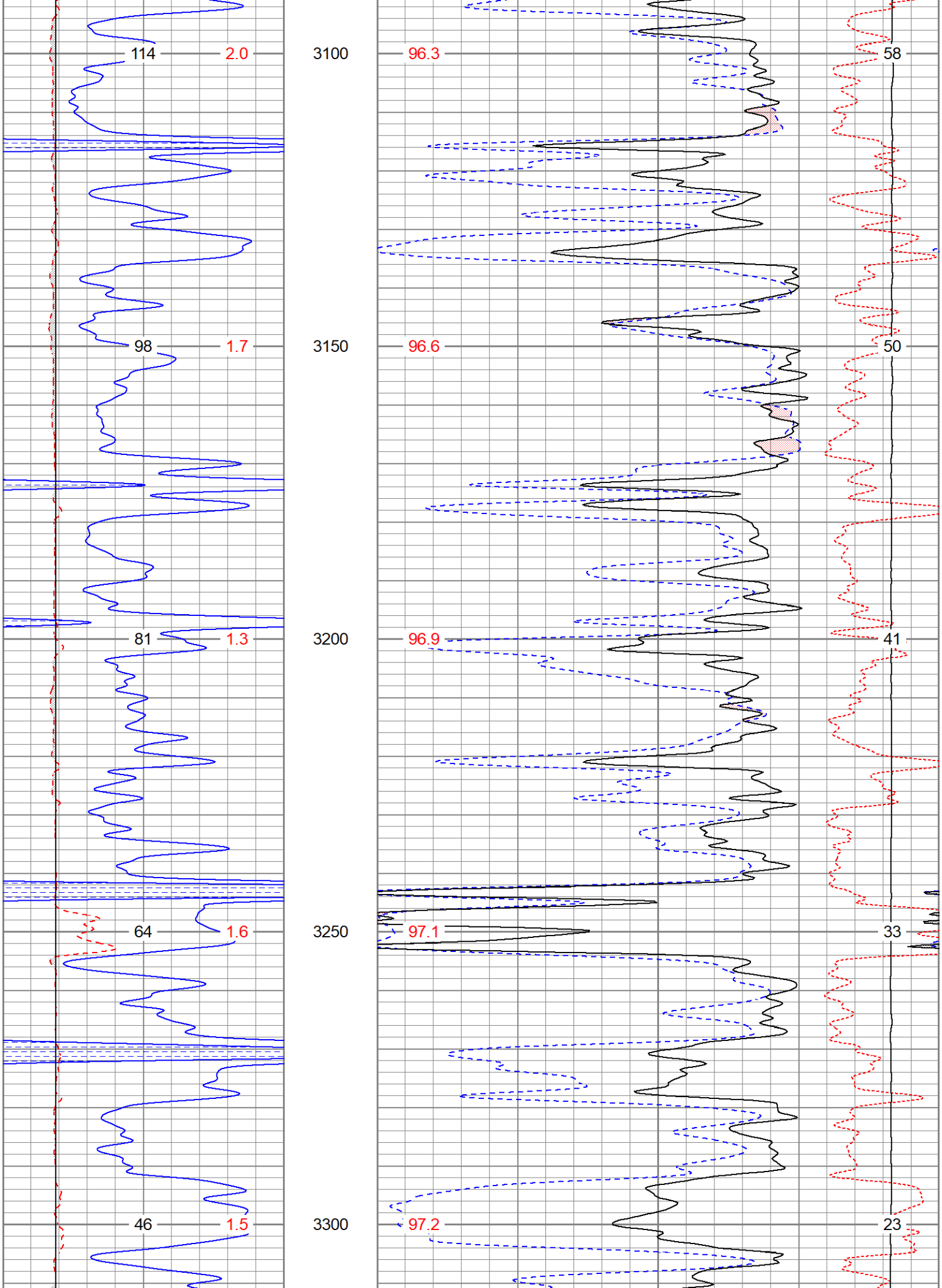
Database File	jofzeiglerunit#1oh.db
Dataset Pathname	pass3.1
Presentation Format	digital_kcdnl
Dataset Creation	Tue Apr 11 01:43:47 2023
Charted by	Depth in Feet scaled 1:240

0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
	TBHV (ft3) / DEVI (deg)	

30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30
TEMP (degF)		
-0.25	RHOC (g/cc)	0.25
8000	LTEN (lb)	0
	ABHV (ft3)	




183
1.0
2900
95.2
94
166
1.1
2950
95.4
85
149
2.0
3000
95.7
77
131
1.9
3050
96.0
67


114
2.0
3100
96.3
58
98
1.7
3150
96.6
50
81
1.3
3200
96.9
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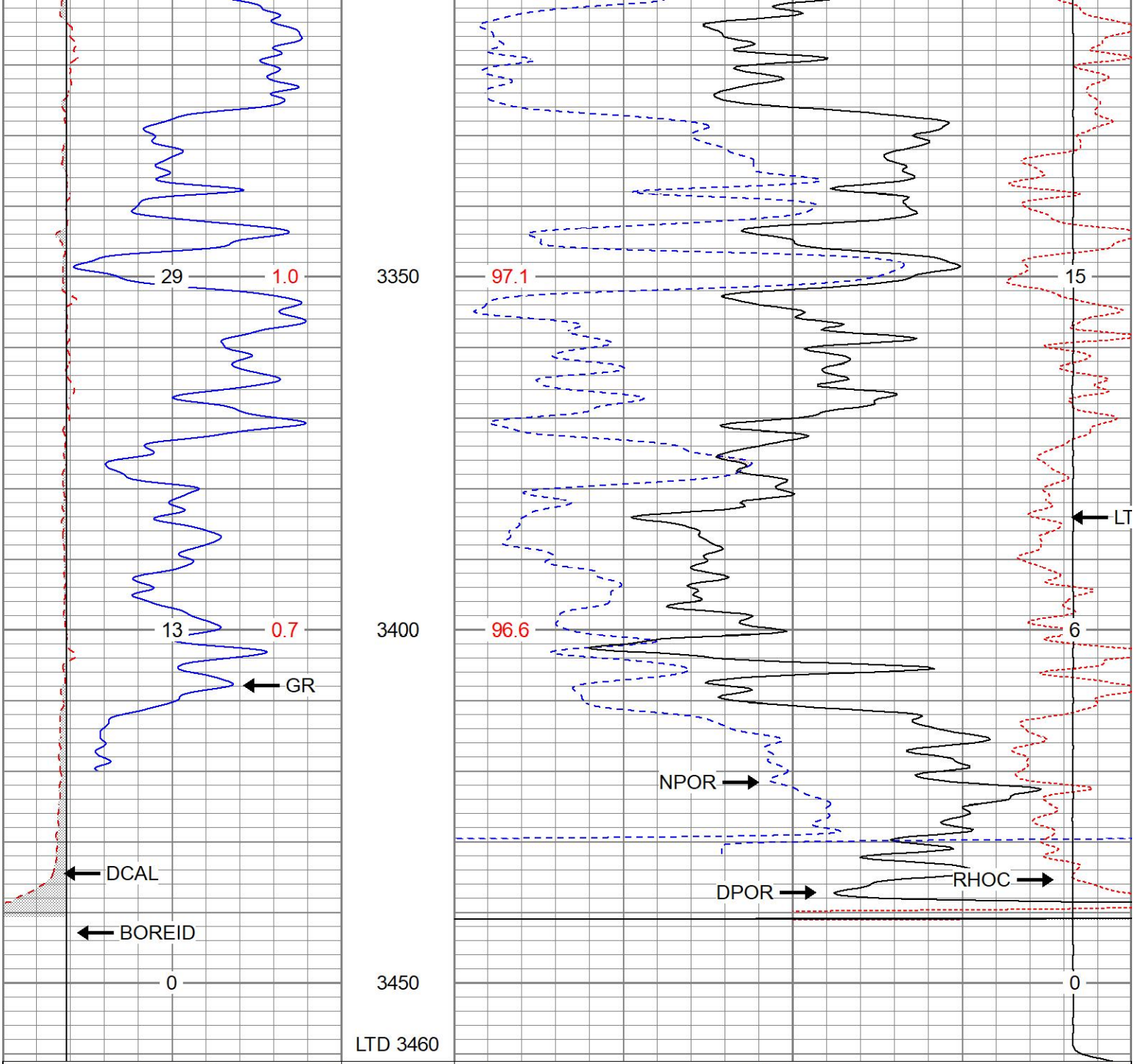
97.1
33
46
1.5
3300
97.2
23



0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
	TBHV (ft3) / DEVI (deg)	

30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30
TEMP (degF)		
-0.25	RHOC (g/cc)	0.25
8000	LTEN (lb)	0
	ABHV (ft3)	

GEMINI WIRELINE

REPEAT SECTION

Database File	jofzeiglerunit#1oh.db
Dataset Pathname	pass2.1
Presentation Format	digital_kcdnl
Dataset Creation	Tue Apr 11 01:50:50 2023

Charted by Depth in Feet scaled 1:240

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

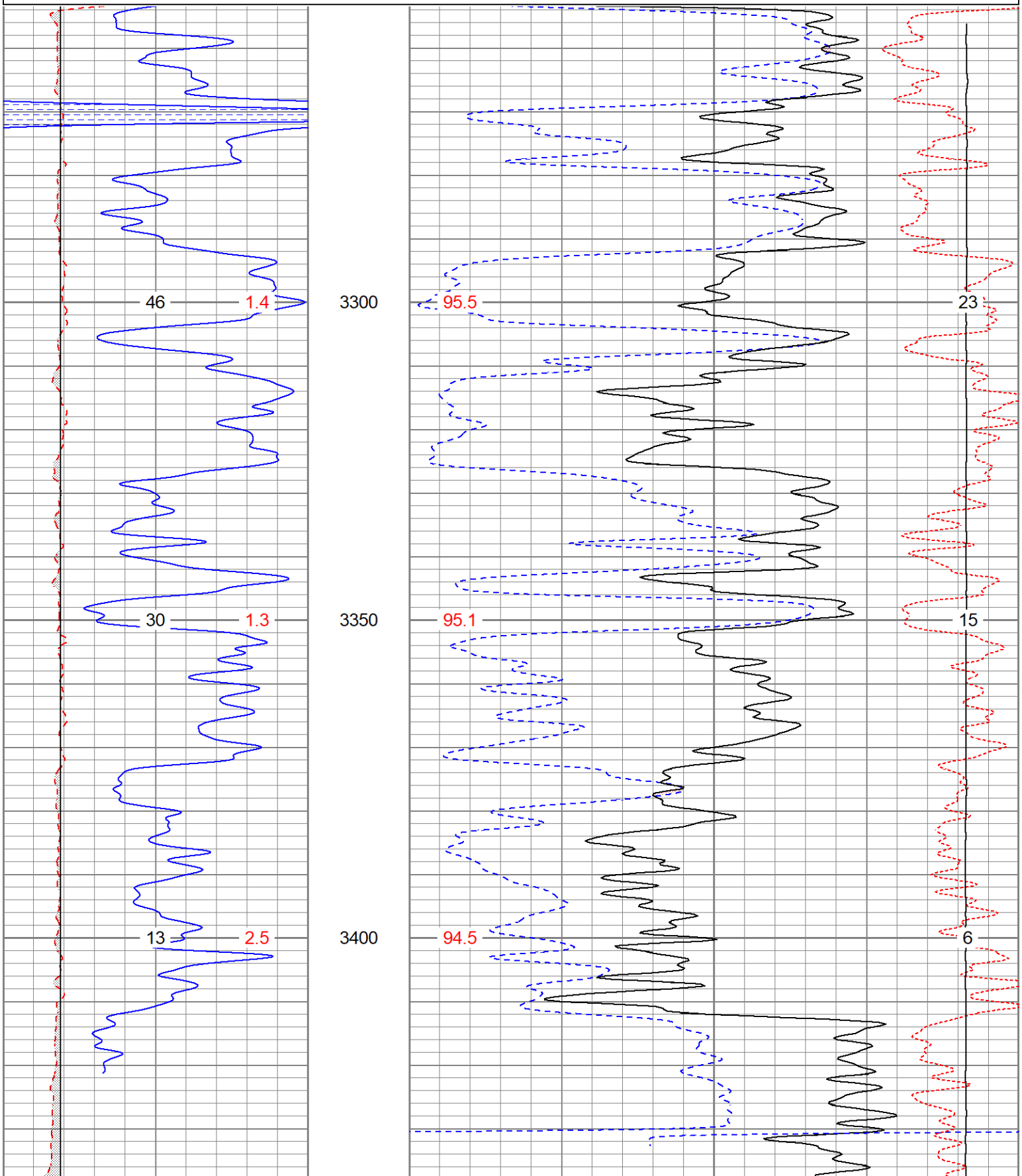
TBHV (ft3) | DEVI (deg)

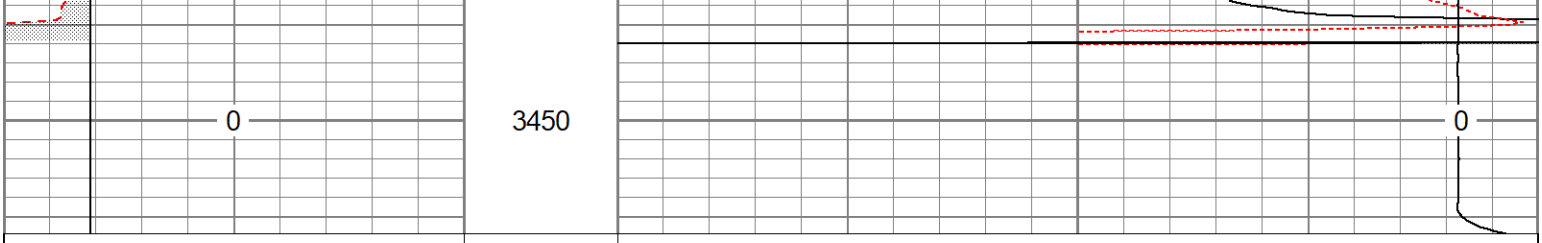
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

TEMP (degF)

-0.25	RHOC (g/cc)	0.25
8000	LTEN (lb)	0

ABHV (ft3)





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

TBHV (ft3)	DEVI (deg)

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

TEMP (degF)	-0.25	RHOC (g/cc) 0.25
	8000	LTEN (lb) 0
		ABHV (ft3)

Calibration Report

Database File: jofzeiglerunit#1oh.db
Dataset Pathname: pass2.1
Dataset Creation: Tue Apr 11 01:50:50 2023

Dual Induction Calibration Report

Serial-Model: 1989-ADM
Surface Cal Performed: Tue Feb 4 16:04:10 2020
Downhole Cal Performed: Tue Nov 15 12:05:48 2022
After Survey Verification Performed: Tue Nov 15 12:05:48 2022

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.012	0.665	V	0.000	350.000	mmho/m	516.748	6.134
Medium	-0.013	0.752	V	0.000	400.000	mmho/m	522.482	6.987
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.011	0.668	V	0.000	350.000	mmho/m	515.730	5.704
Medium	-0.015	0.752	V	0.000	550.000	mmho/m	716.653	10.787

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	4.416	348.155	mmho/m	0.419	351.110	mmho/m	1.020	-4.085
Medium	9.704	400.497	mmho/m	-0.877	400.105	mmho/m	1.026	-10.834
Shallow	2.504	0.020	V	500.000	2.000	Ohm-m	180.000	-1.917

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	4.416	348.155	mmho/m	1.020	-4.085
Medium	0.000	0.000	mmho/m	9.704	400.497	mmho/m	1.026	-10.834
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
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:	Wed Jun 15 11:53:49 2022	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.1000	GAPI/cps