



LITHO DENSITY
NEUTRON
LOG

Company BEREXCO LLC.
Well KARLIN B #3
Field BEMIS-SHUTTS
County ELLIS
State KS

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Field BEMIS-SHUTTS
County ELLIS State KS

Location: API #: 15 051 27031
750' FSL & 385' FWL
Permanent Datum SEC 1 TWP 12S RGE 18W
Log Measured From Ground Level Elevation 2105
Drilling Measured From KB 10' AGL
KB
Elevation
K.B. 2115
D.F. 2113
G.L. 2105

Date	3/30/22
Run Number	One
Depth Driller	3750
Depth Logger	3750
Bottom Logged Interval	3730
Top Log Interval	2700
Casing Driller	8 5/8" @ 265'
Casing Logger	265
Bit Size	7 7/8"
Type Fluid in Hole	Chemical
Density / Viscosity	9.3/54
pH / Fluid Loss	9.0/14.0
Source of Sample	Pit
Rm @ Meas. Temp	.6@65degf
Rmf @ Meas. Temp	.45@65degf
Rmc @ Meas. Temp	.72@65degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	.40@98degf
Time Circulation Stopped	12:15 P.M
Time Logger on Bottom	2:00 P.M
Maximum Recorded Temperature	98degf
Equipment Number	T605
Location	Hays, KS
Recorded By	GUS PFANENSTIEL
Witnessed By	BRYAN BYNOG

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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.

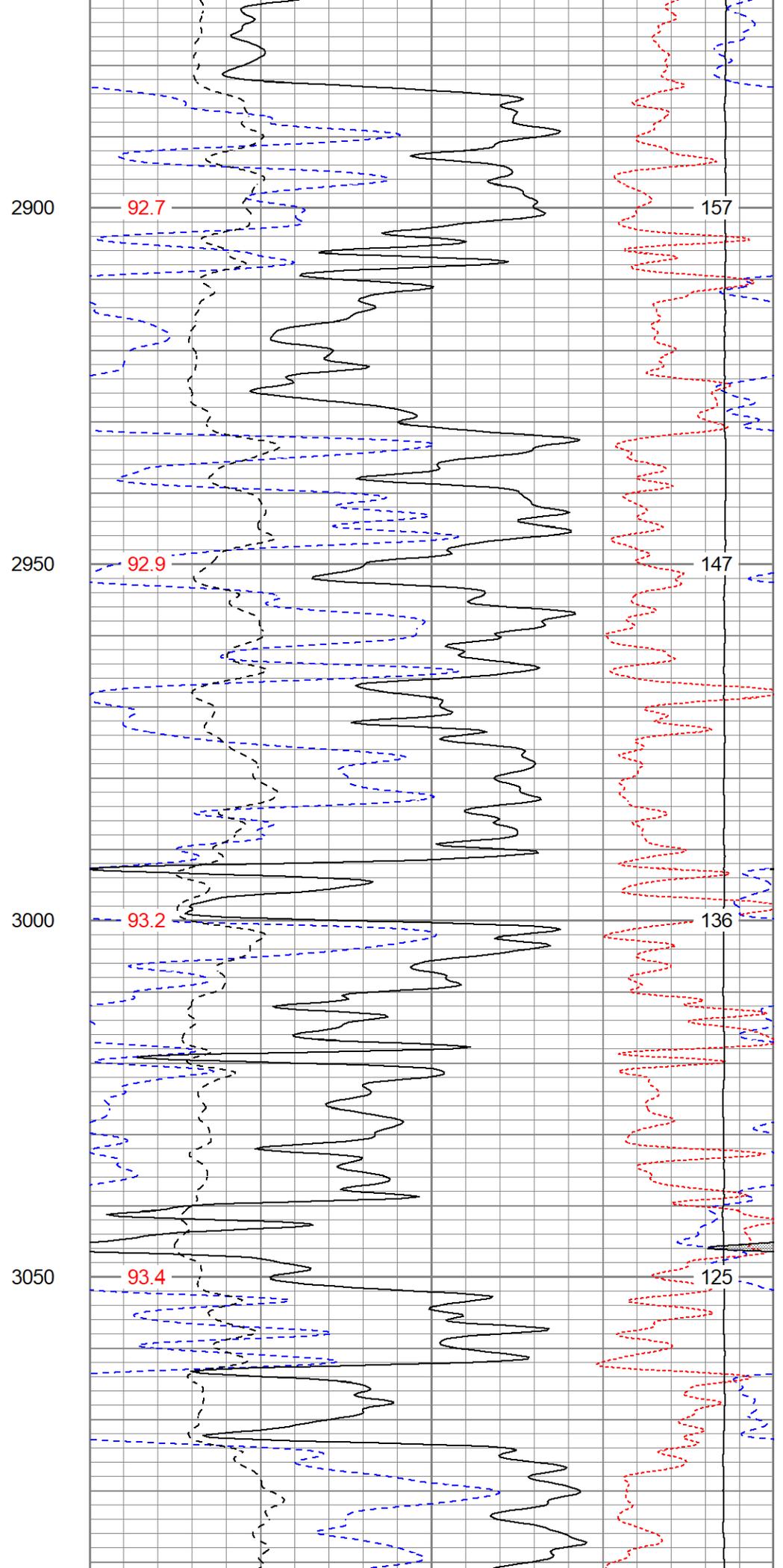
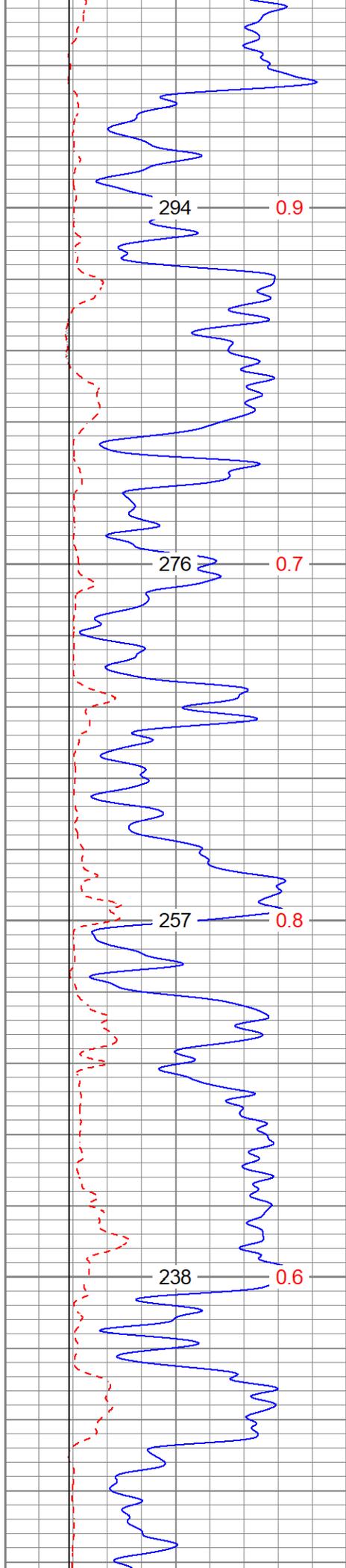
Comments

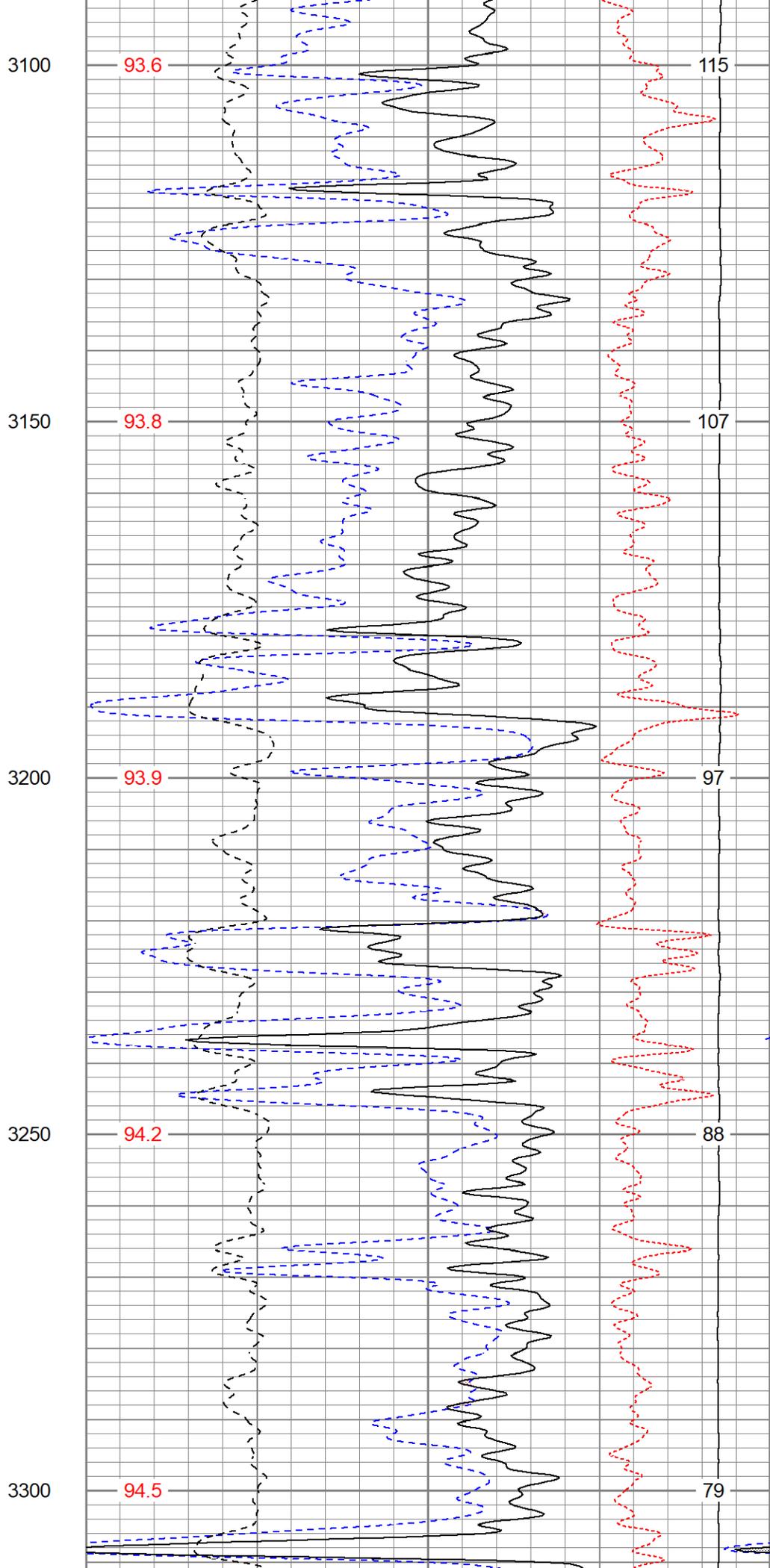
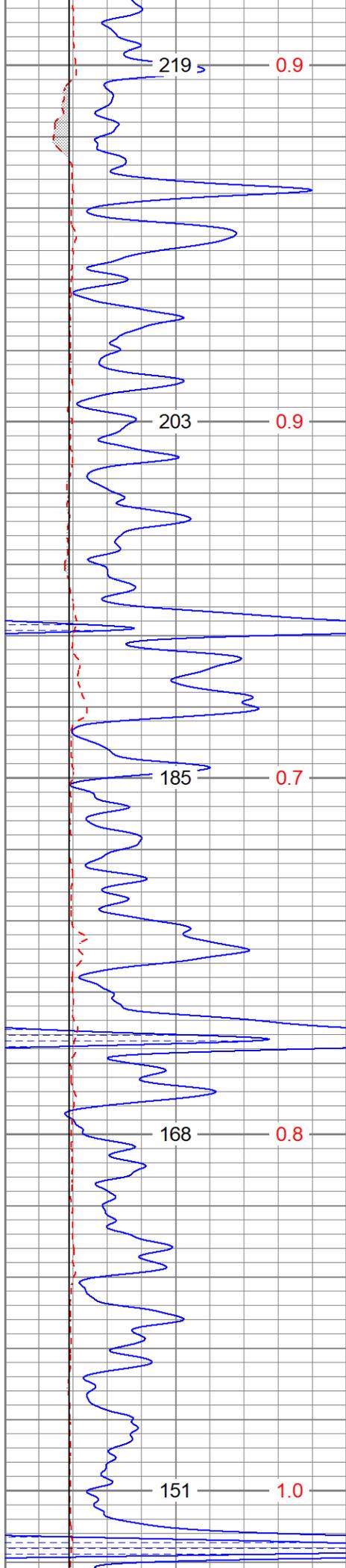
NORTH OF HAYS TO SEVERIN RD EAST 1 MILE,
NORTH 1 MILE, EAST INTO A MILE

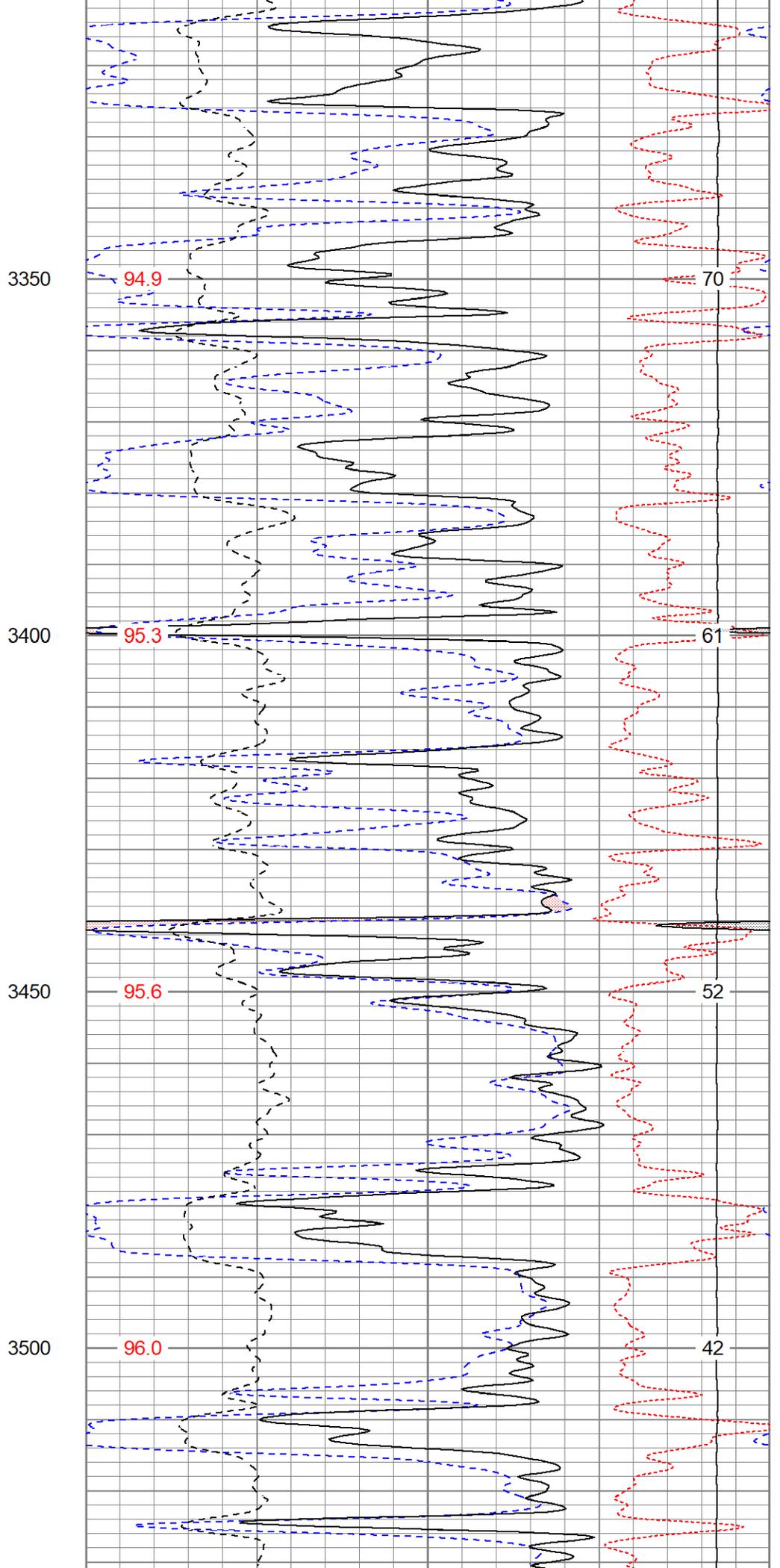
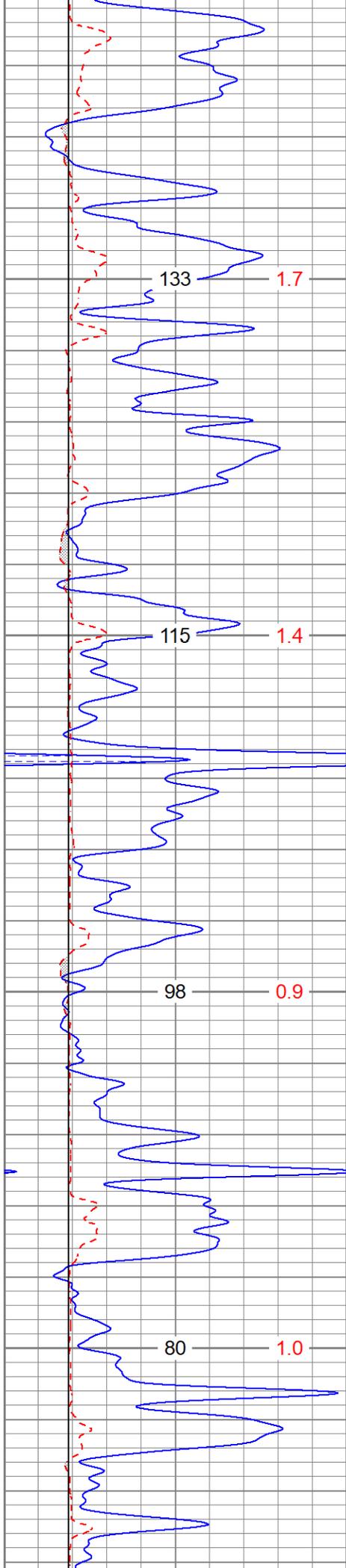
Thank You for using Gemini Wireline LLC
785-625-1182

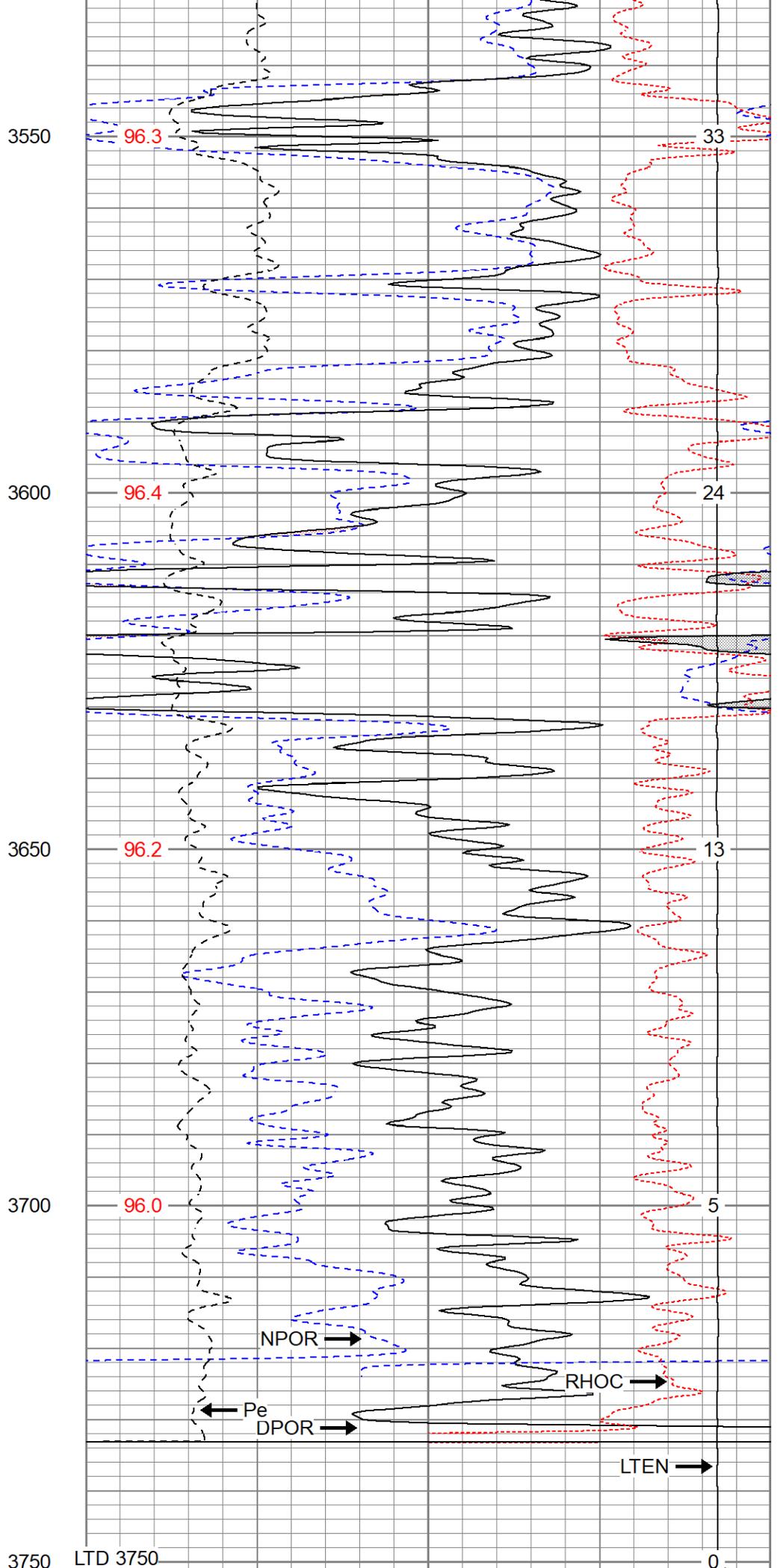
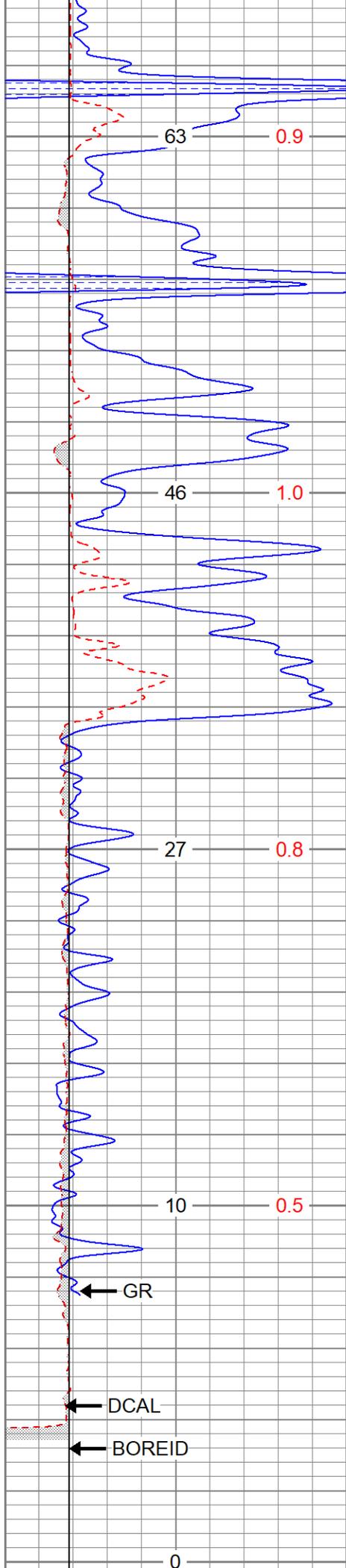


MAIN PASS









LTD 3750

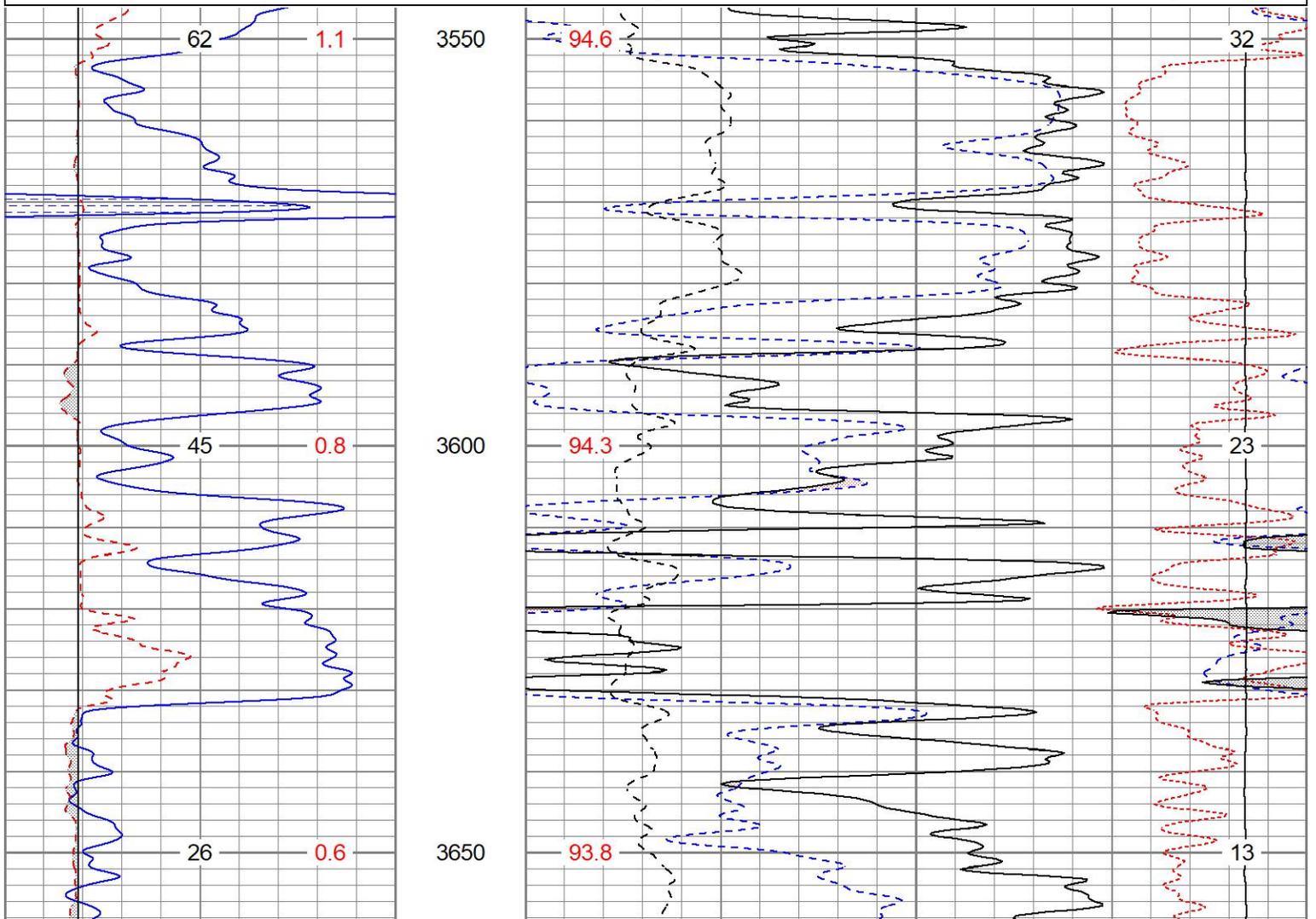
0	GR (GAPI)	150	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
6	BOREID (in)	16	70	DPOR (pu)	30
	TBHV (ft3)	DEVI (deg)	0	Pe (barn)	10 -0.25
					RHOC (g/cc)
					0.25
					8000
					LTEN (lb)
					0
					ABHV (ft3)

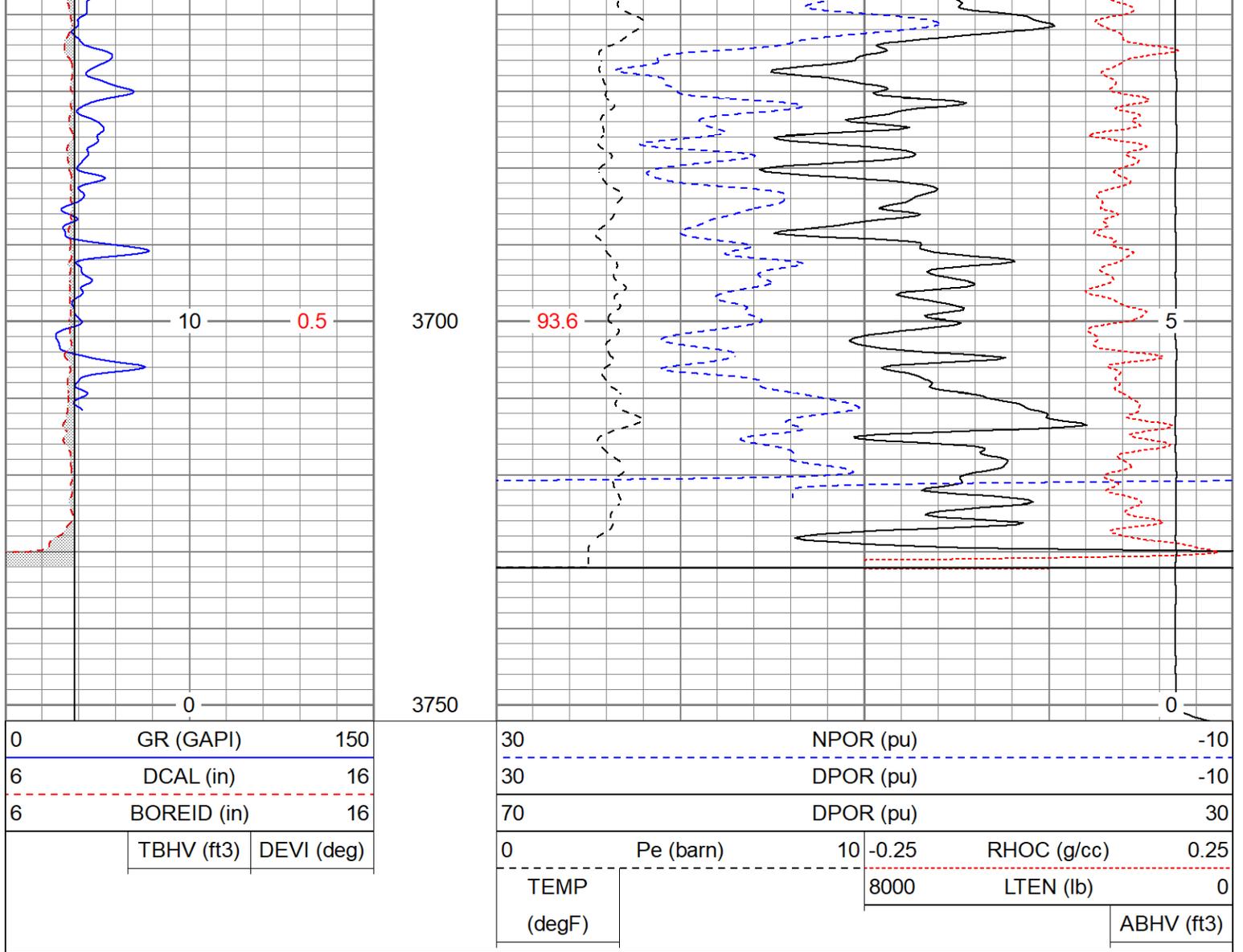


REPEAT SECTION

Database File berexcokarlinb#3oh.db
 Dataset Pathname pass2.1
 Presentation Format digital_kcdnl
 Dataset Creation Wed Mar 30 14:52:33 2022
 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 -0.25
					RHOC (g/cc)
					0.25
					8000
					LTEN (lb)
					0
					ABHV (ft3)





Calibration Report

Database File berexcokarlinb#3oh.db
 Dataset Pathname pass2.1
 Dataset Creation Wed Mar 30 14:52:33 2022

Dual Induction Calibration Report

Serial-Model: 1842-ADM
 Surface Cal Performed: Mon Sep 20 22:00:42 2021
 Downhole Cal Performed: Mon Sep 20 22:00:24 2021
 After Survey Verification Performed: Mon Sep 20 22:05:52 2021

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop	V	Air	Loop	mmho/m	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

Internal:	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Deep	-0.219	349.905	mmho/m	-0.343	349.810	mmho/m	1.000	-3.124
Medium	-0.118	399.722	mmho/m	-0.226	399.745	mmho/m	1.000	-3.108
Shallow	2.536	0.025	V	500.000	2.000	Ohm-m	180.330	-1.504

After Survey Verification								
Internal:	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.219	349.905	mmho/m	1.000	-3.124
Medium	0.000	0.000	mmho/m	-0.118	399.722	mmho/m	1.000	-3.108
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 Oct 20 08:37:42 2020

Master Calibration						
	Density		Far Detector	Near Detector		
Magnesium	1.670	g/cc	6640.15	4353.97	cps	
Aluminium	2.640	g/cc	1651.98	2729.31	cps	
Aluminium+Sleeve	2.640	g/cc	1651.98	2729.31	cps	
Spine Angle = 71.44			Density/Spine Ratio = 0.661			
	PE		NLITH	NHARD		
Magnesium	1.900	barn	1410.00	1000.00	cps	
Aluminium	2.400	barn	1101.00	918.50	cps	
Aluminium+Sleeve	5.000	barn	656.00	951.00	cps	
M = 0.448			B = -0.112	R = 0.999		
	Size		Reading			
Small Ring	8.30	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 May 5 19:21:08 2021	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps