



COMPENSATED DENSITY NEUTRON LOG

Company Mid-Continent Energy Corp.

Well White B #3

Field Stoltzenberg

County Ellsworth State KS

Location: API #: 15 053 21349

SEC 8 TWP 16S RGE 10W

Permanent Datum Ground Level Elevation 1851'

Log Measured From KB 11' AGL

Drilling Measured From KB

Other Services
ML
DIL

Elevation
K.B. 1862'
D.F. 1861'
G.L. 1851'

Date

1-16-17

Run Number

One

Depth Driller

3400'

Depth Logger

3397'

Bottom Logged Interval

3374'

Top Log Interval

2400'

Casing Driller

336'

Casing Logger

336'

Bit Size

7 7/8"

Type Fluid in Hole

Chemical Mud

Density / Viscosity

9.1/45

pH / Fluid Loss

10/8.4

Source of Sample

Pit

Rm @ Meas. Temp

1.4@60degf

Rmf @ Meas. Temp

1.05@60degf

Rmc @ Meas. Temp

1.68@60degf

Source of Rmf / Rmc

Calculated

Rm @ BHT

.75@112degf

Time Circulation Stopped

1:30 p.m.

Time Logger on Bottom

4:00 p.m.

Maximum Recorded Temperature

112 degf

Equipment Number

T127

Location

Hays, KS.

Recorded By

Gus Pfannenstiel

Witnessed By

Mr. Eli Felts

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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

Thank you for using Gemini Wireline
785-625-1182

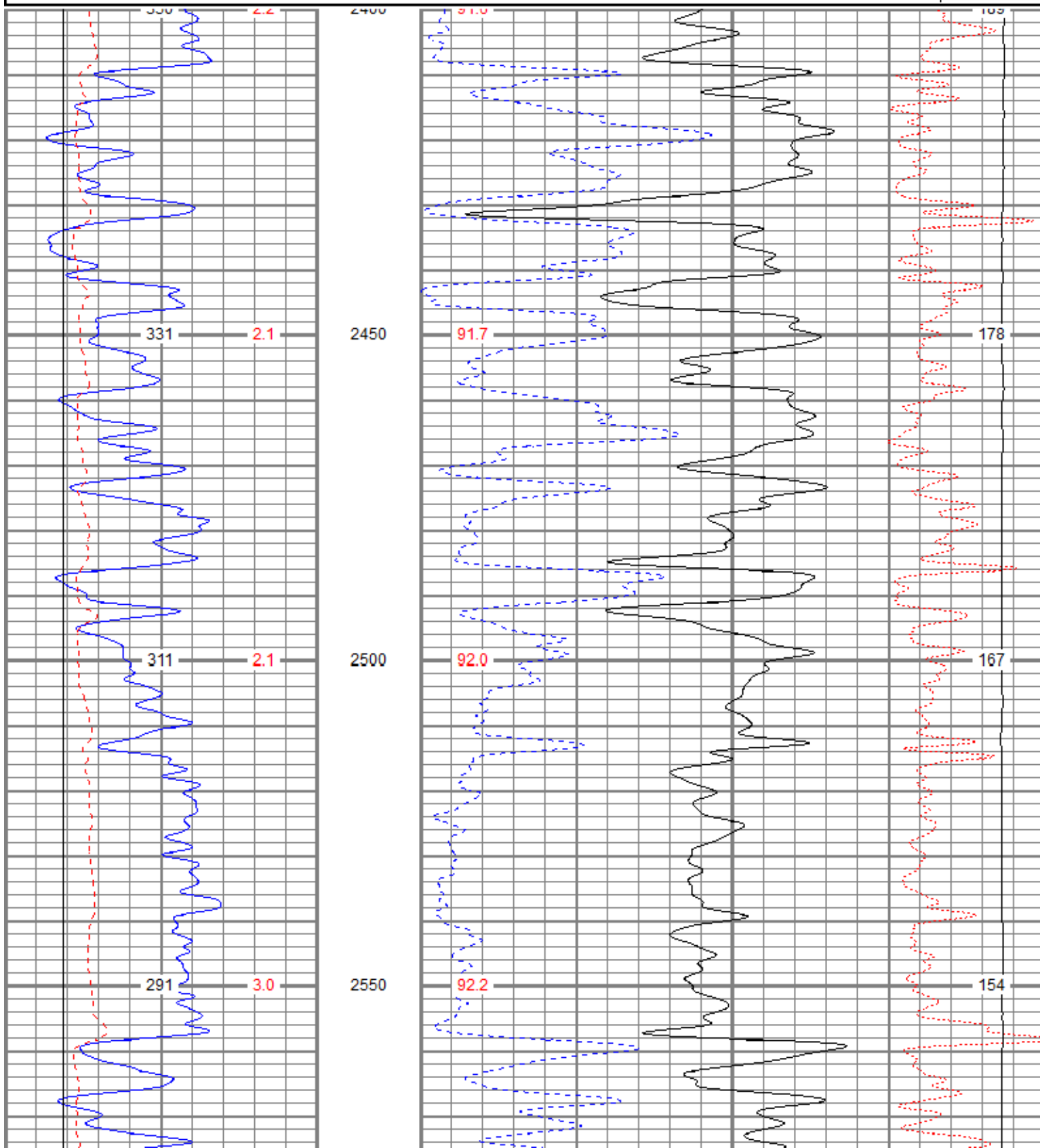


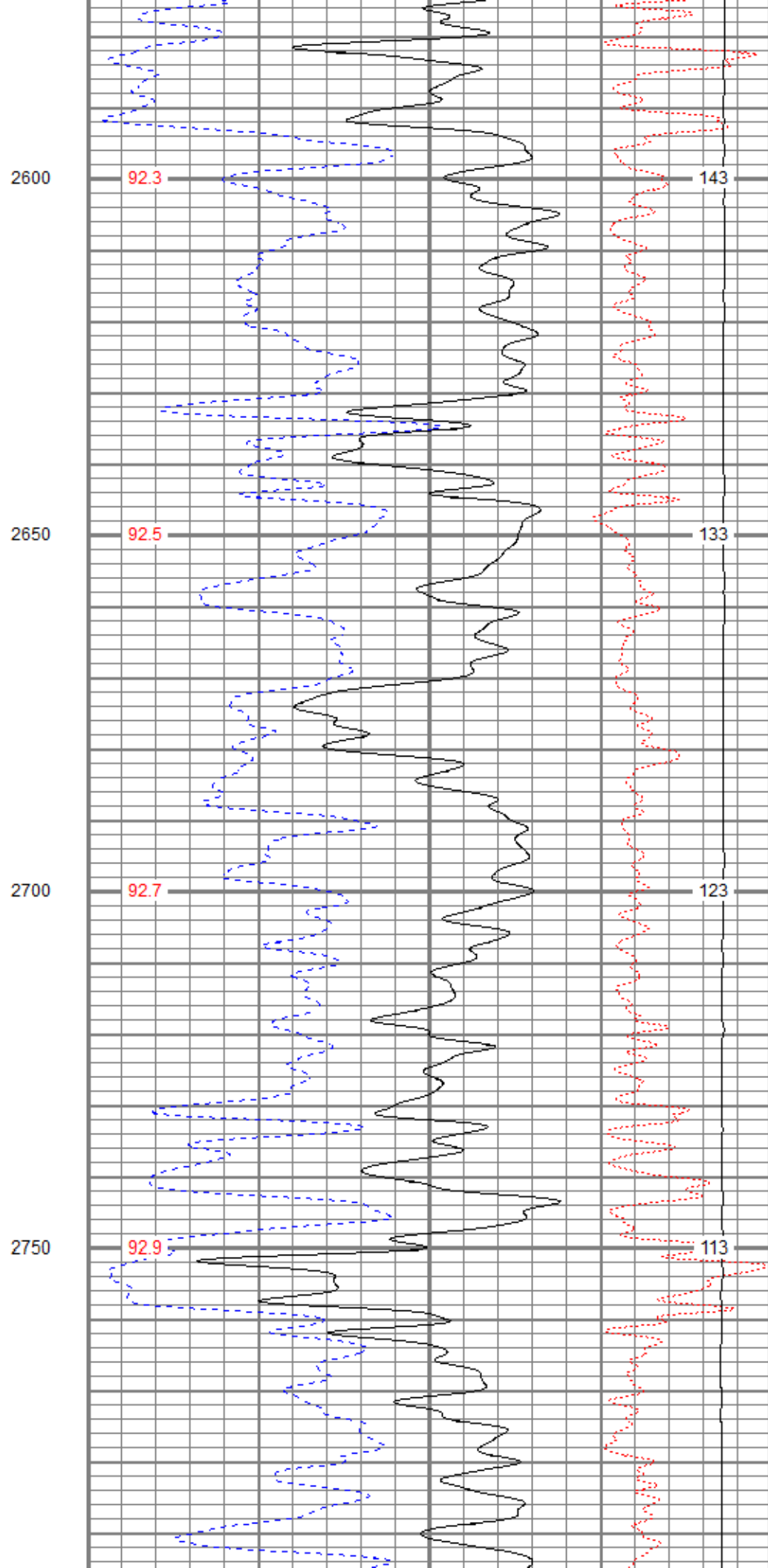
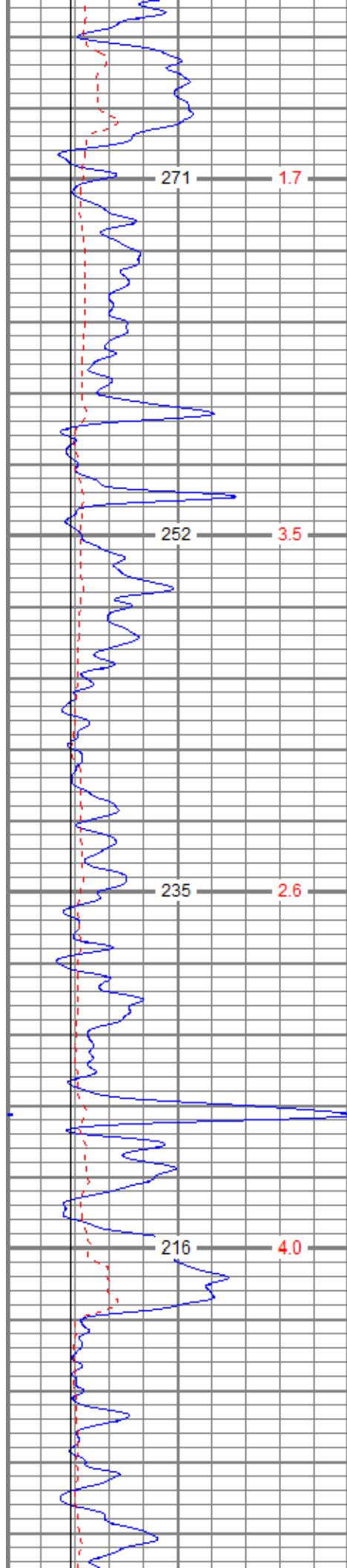
Main Pass

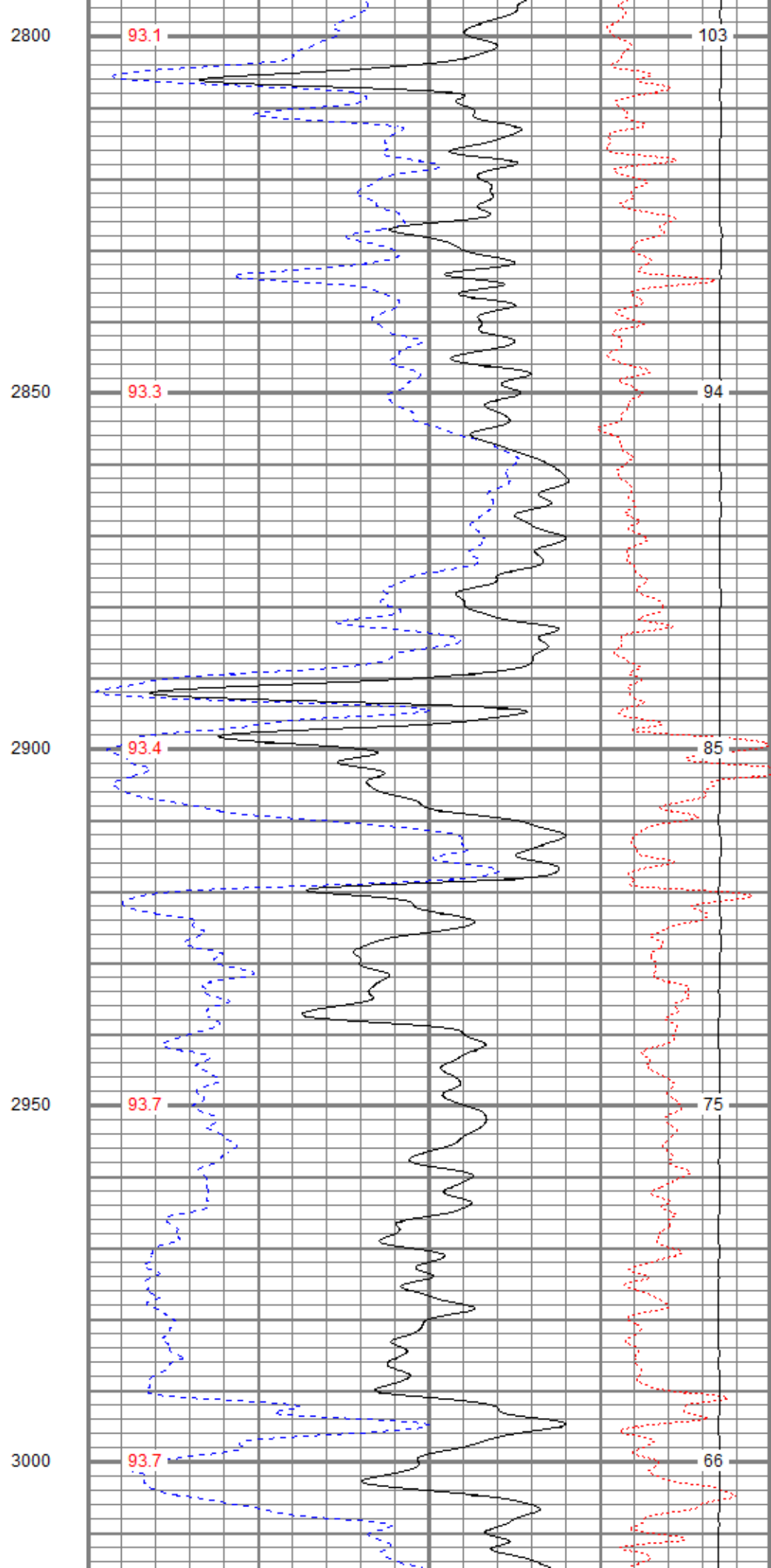
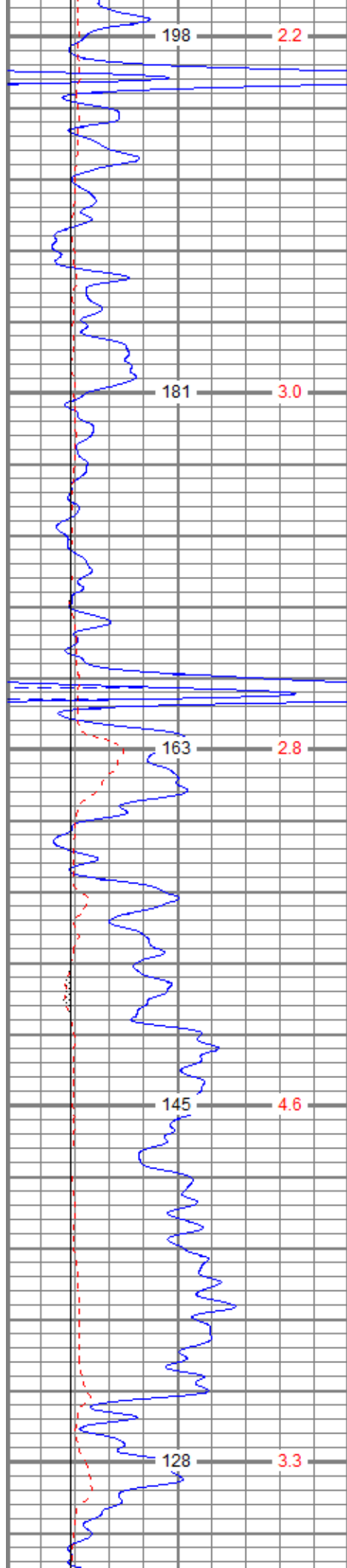
Database File mcewhiteb#3oh.db
Dataset Pathname pass2.1
Presentation Format digital_kcdnl
Dataset Creation Mon Jan 16 16:48:34 2017
Charted by Depth in Feet scaled 1:240

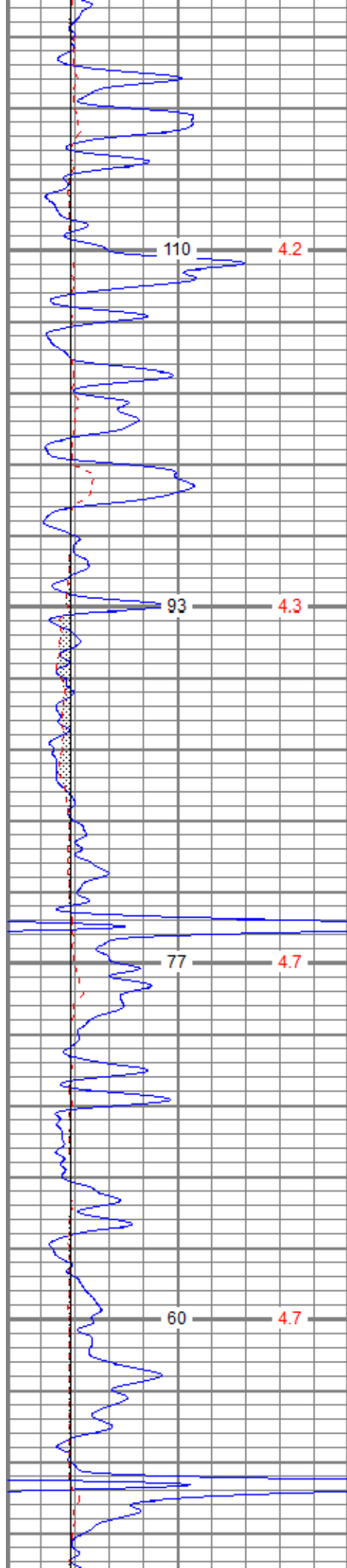
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
	TBHV (ft3)	DEVI (deg)

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)









3050

93.9

56

3100

94.1

47

3150

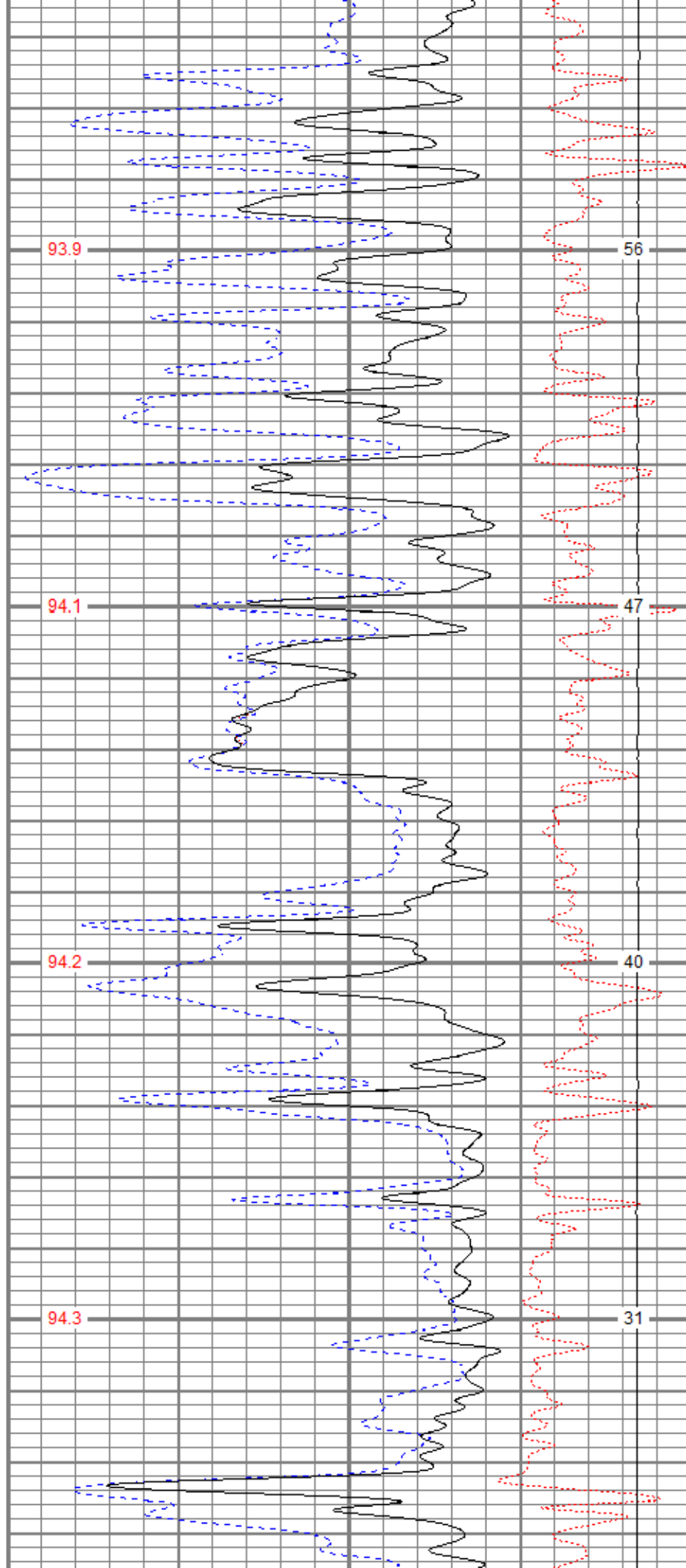
94.2

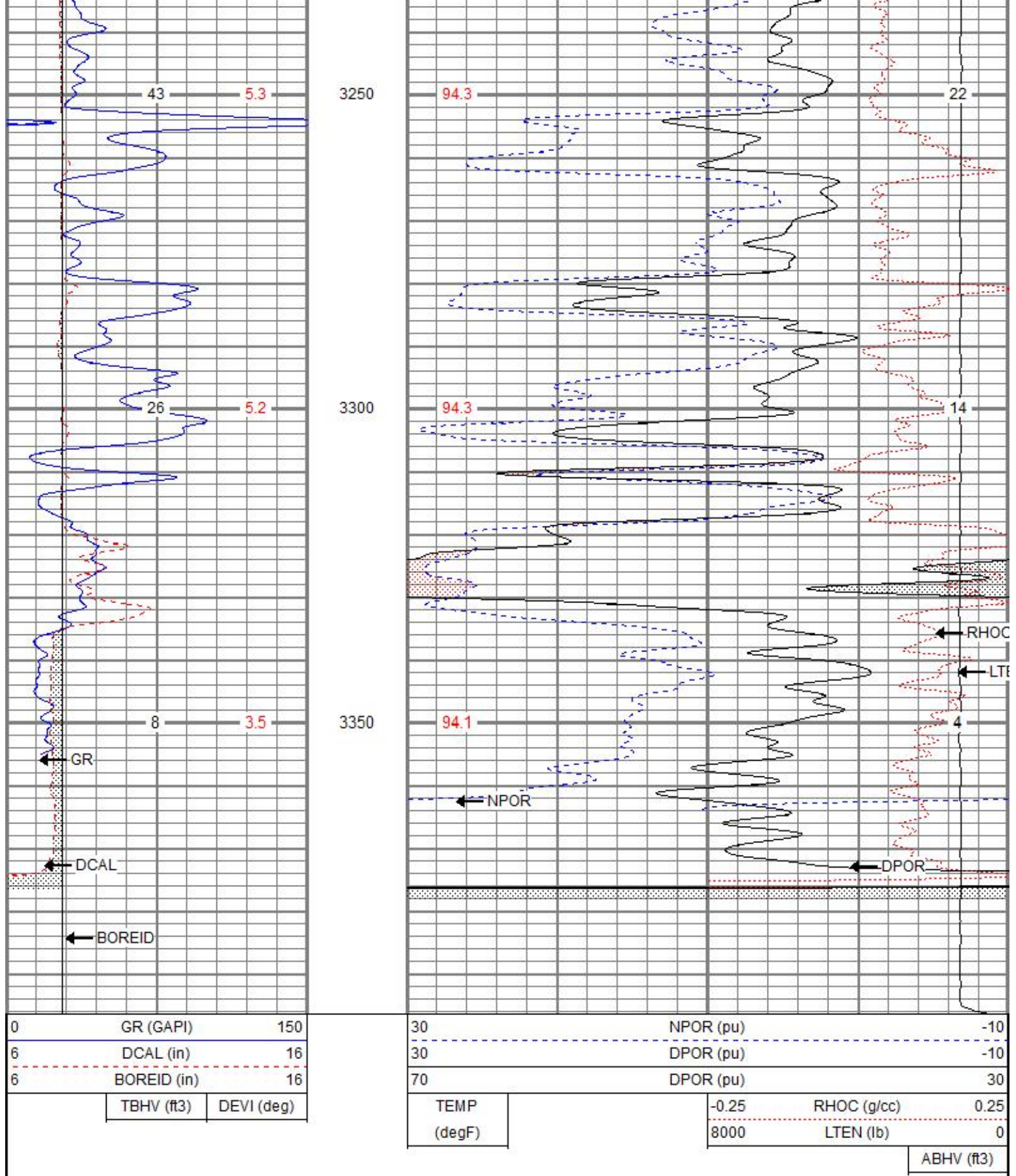
40

3200

94.3

31

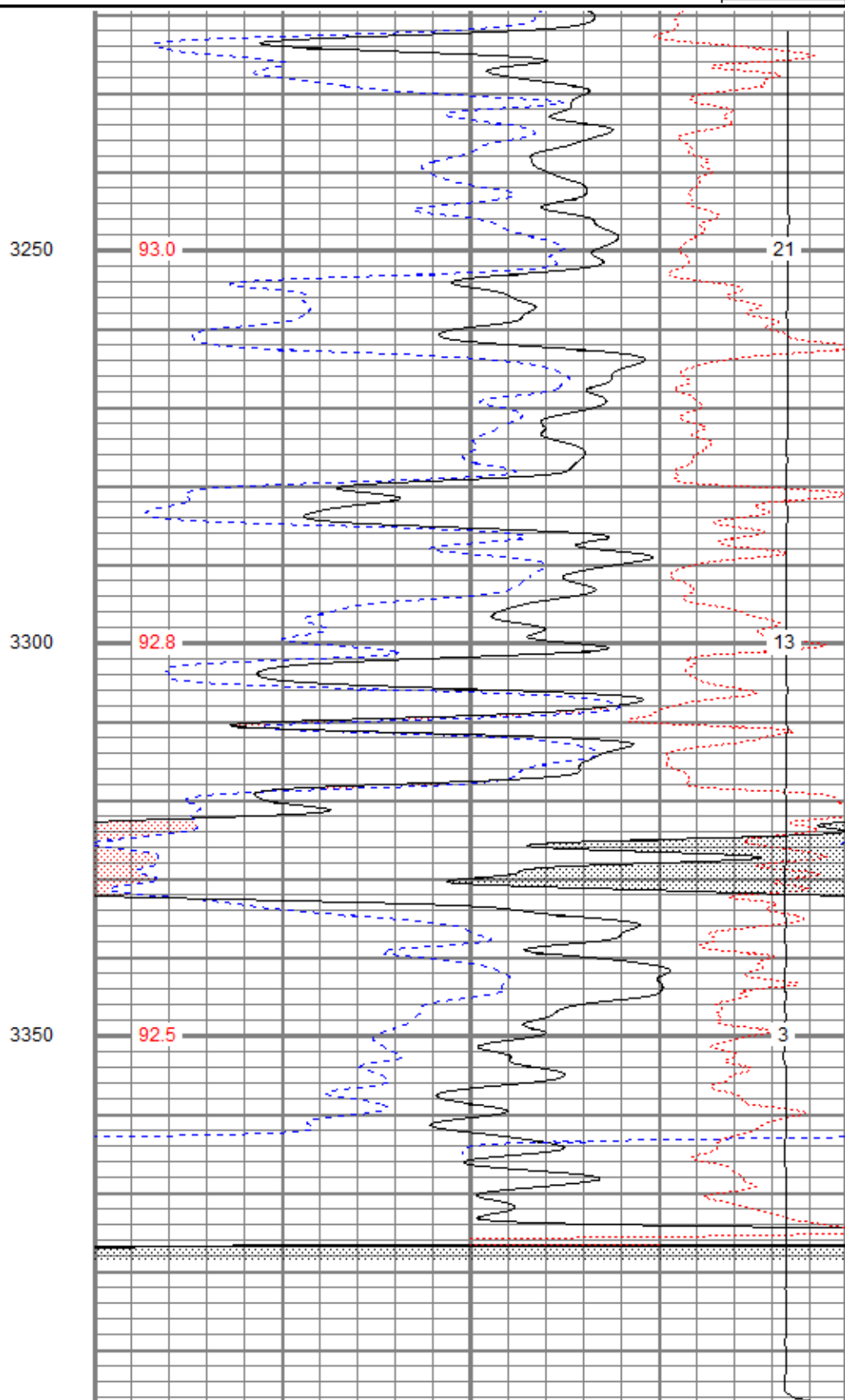
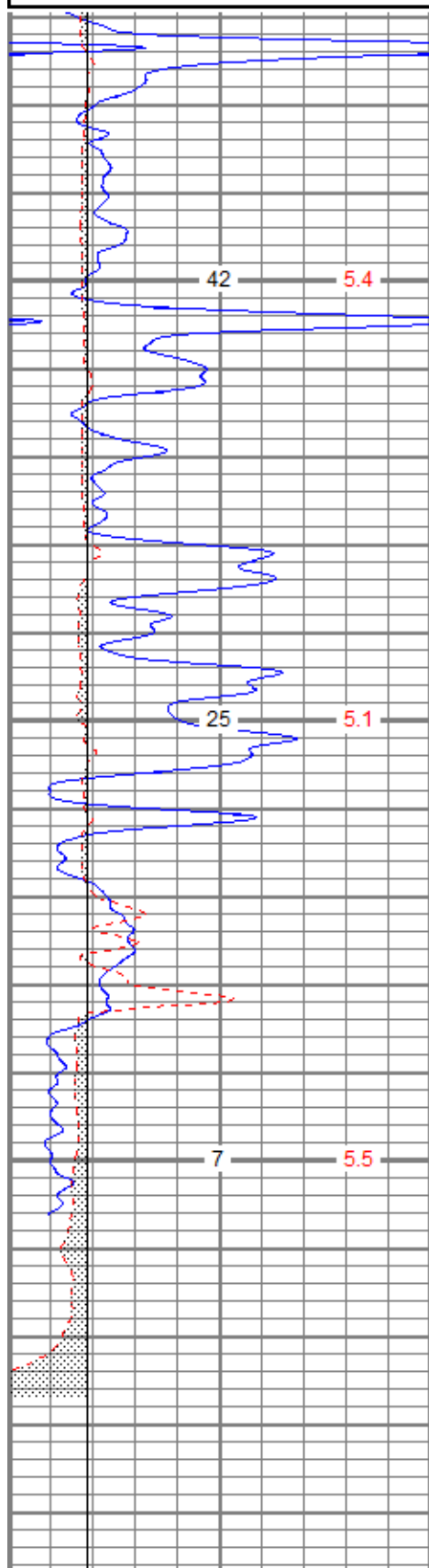




Repeat Pass

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)



6	DCAL (in)	16	30	DPOR (pu)	-10
6	BOREID (in)	16	70	DPOR (pu)	30
	TBHV (ft3)	DEVI (deg)	TEMP (degF)	-0.25 8000	RHOC (g/cc) LTEN (lb) 0.25 0
					ABHV (ft3)

Calibration Report								
Database File	mcewhiteb#3oh.db							
Dataset Pathname	pass1.1							
Dataset Creation	Mon Jan 16 16:52:43 2017							
Dual Induction Calibration Report								
Serial-Model:			1989-ADM					
Surface Cal Performed:			Fri Dec 09 04:19:59 2016					
Downhole Cal Performed:			Fri Dec 09 04:20:05 2016					
After Survey Verification Performed:			Fri Dec 09 04:20:08 2016					
Surface Calibration								
Readings			References				Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.560	-1.118
Medium	0.003	0.745	V	0.000	400.000	mmho/m	538.828	-1.427
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.220	-1.003
Medium	0.003	0.745	V	0.000	550.000	mmho/m	741.357	-2.036
Downhole Calibration								
Readings			References				Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.036	349.993	mmho/m	-0.114	350.108	mmho/m	1.001	-0.078
Medium	0.039	400.181	mmho/m	0.053	399.799	mmho/m	0.999	0.013
Shallow	2.503	0.015	V	500.000	2.000	Ohm-m	180.177	-2.046
After Survey Verification								
Readings			Targets				Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.036	349.993	mmho/m	1.001	-0.078
Medium	0.000	0.000	mmho/m	0.039	400.181	mmho/m	0.999	0.013
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Neutron Calibration Report		
Serial Number:	Admyr	
Tool Model:	G	
Performed:	Fri Dec 09 04:18:49 2016	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Gamma Ray Calibration Report	
Serial Number:	1
Tool Model:	A

Performed: Sun Dec 11 17:01:48 2016

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps

Sensitivity: 0.7000 GAPI/cps

Temperature Calibration Report

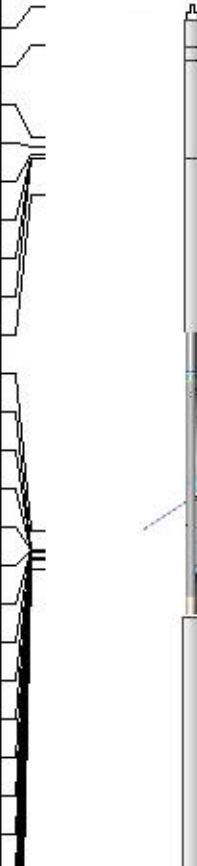
Serial Number: 1
Tool Model: A
Performed: Sat Apr 09 21:14:20 2016

	Reference	Reading
Low Reference:	0.00 degF	0.00 degF
High Reference:	32.00 degF	32.00 degF
Gain:	1.00	
Offset:	0.00	
Delta Spacing	1	

Inclinometer Calibration Report

Performed: Fri Dec 09 04:18:36 2016

	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

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
PSTAT	39.60		CHD-STD	0.50	1.69	1.00
GR	38.32		ADT1PULSE-A (1) Pulsed Interface Tool #1	0.83	3.50	10.00
TEMP	35.35		ADT1ADC-A (1) Analog Interface #1	0.83	3.50	10.00
ASTAT	35.06		ADT1SENSORS-A (1)	4.54	3.50	10.00
GRD	34.81		NEU-G (Admyr) Gearhart Epithermal	5.65	3.50	85.00
ACCY	34.65					
ACCX	34.65					
SSTAT	34.65					
NEU	33.46					
LStat	22.54					
LS8	21.88					
LS7	21.88					
LS6	21.88		ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
LS5	21.88					
LS4	21.88					
LS3	21.88					
LS2	21.88					
LS1	21.88					
LSV	21.88					
LSD	21.86					
SSV	21.67					
SS8	21.67					
SS7	21.67					

SS7	21.67		DIL-ADM (1989) Dual Induction	19.71	4.00	300.00				
SS6	21.67									
SS5	21.67									
SS4	21.67									
SS3	21.67									
SS2	21.67									
SS1	21.67									
DCAL	21.61									
SSD	21.27									
SP	10.60									
CILD	10.60									
CILM	6.89	Dataset: mcewhiteb#3oh.db: field/well/run1/pass1.1 Total length: 39.69 ft Total weight: 656.00 lb O.D.: 4.00 in								
RLL3	1.70									
TR_Mon	0.00									