



COMPENSATED DENSITY NEUTRON LOG

Company Triple Crown Operating, LLC.

Well Barricklow #2-33

Field Barricklow

County Ness State Kansas

Location: API #: 15 135 25917

SEC 33 TWP 20S RGE 22W

Permanent Datum Ground Level Elevation 2181'

Log Measured From KB 8' AGL

Drilling Measured From KB

Other Services
DIL

Elevation
K.B. 2189'
D.F. 2186'
G.L. 2181'

Date 12-9-16

Run Number One

Depth Driller 4348'

Depth Logger 4348'

Bottom Logged Interval 4327'

Top Log Interval 2200'

Casing Driller 8 5/8" @ 1430'

Casing Logger 1430'

Bit Size 7 7/8"

Type Fluid in Hole Chemical

Density / Viscosity 9.4/56

pH / Fluid Loss 9.5/8

Source of Sample Pit

Rm @ Meas. Temp 1.9@65degf

Rmf @ Meas. Temp 1.33@65degf

Rmc @ Meas. Temp 3.36@76degf

Source of Rmf / Rmc Calculated

Rm @ BHT 1.07@116degf

Time Circulation Stopped 9:00 p.m.

Time Logger on Bottom 3:00 a.m.

Maximum Recorded Temperature 116degf

Equipment Number T127

Location Hays, KS

Recorded By L. Smith

Witnessed By Mr. Rod Andersen

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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

South of Ness City to 20 Rd.
East to Z Rd. 1 South, 1 East, 1/2 South
West into.

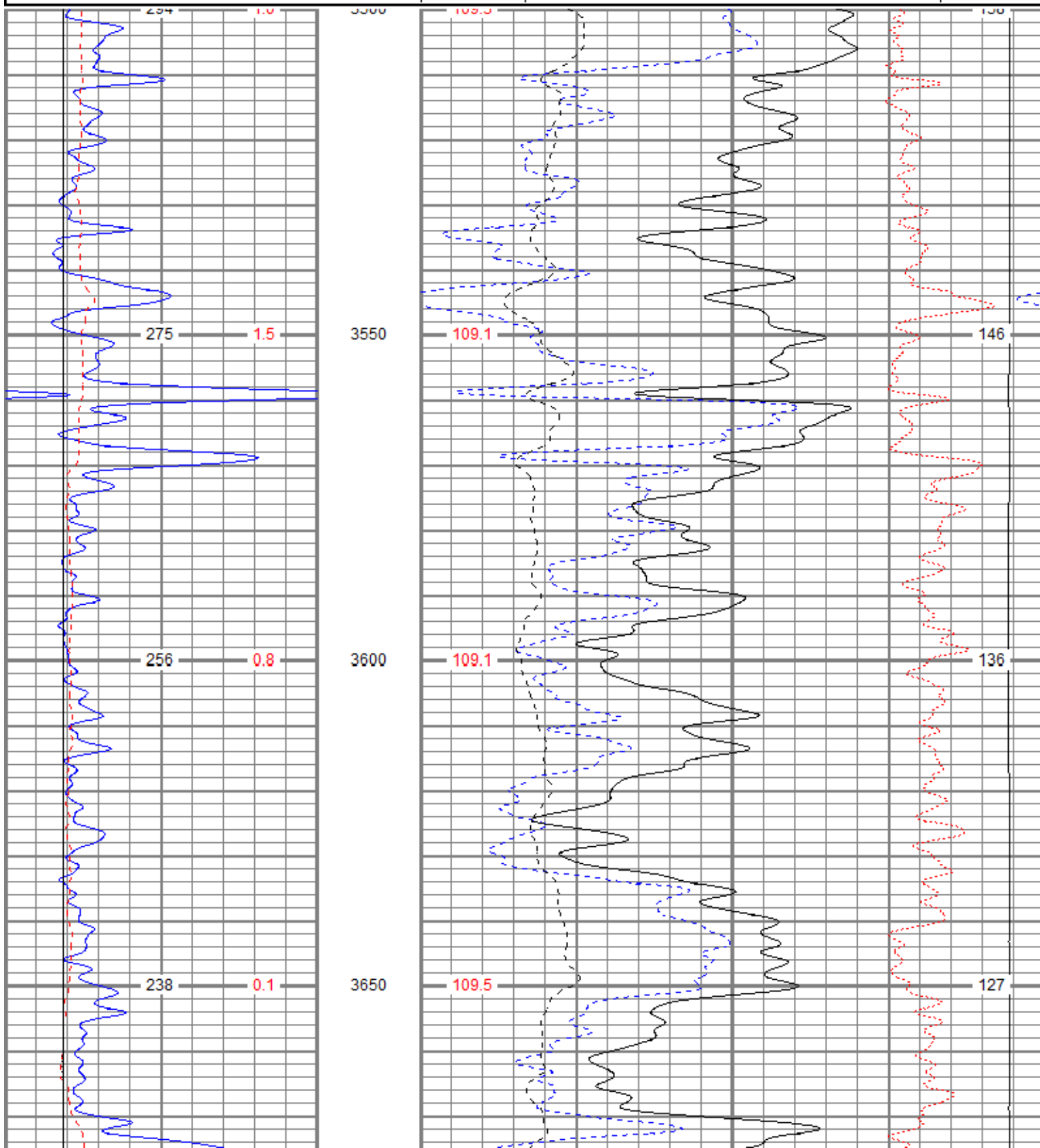


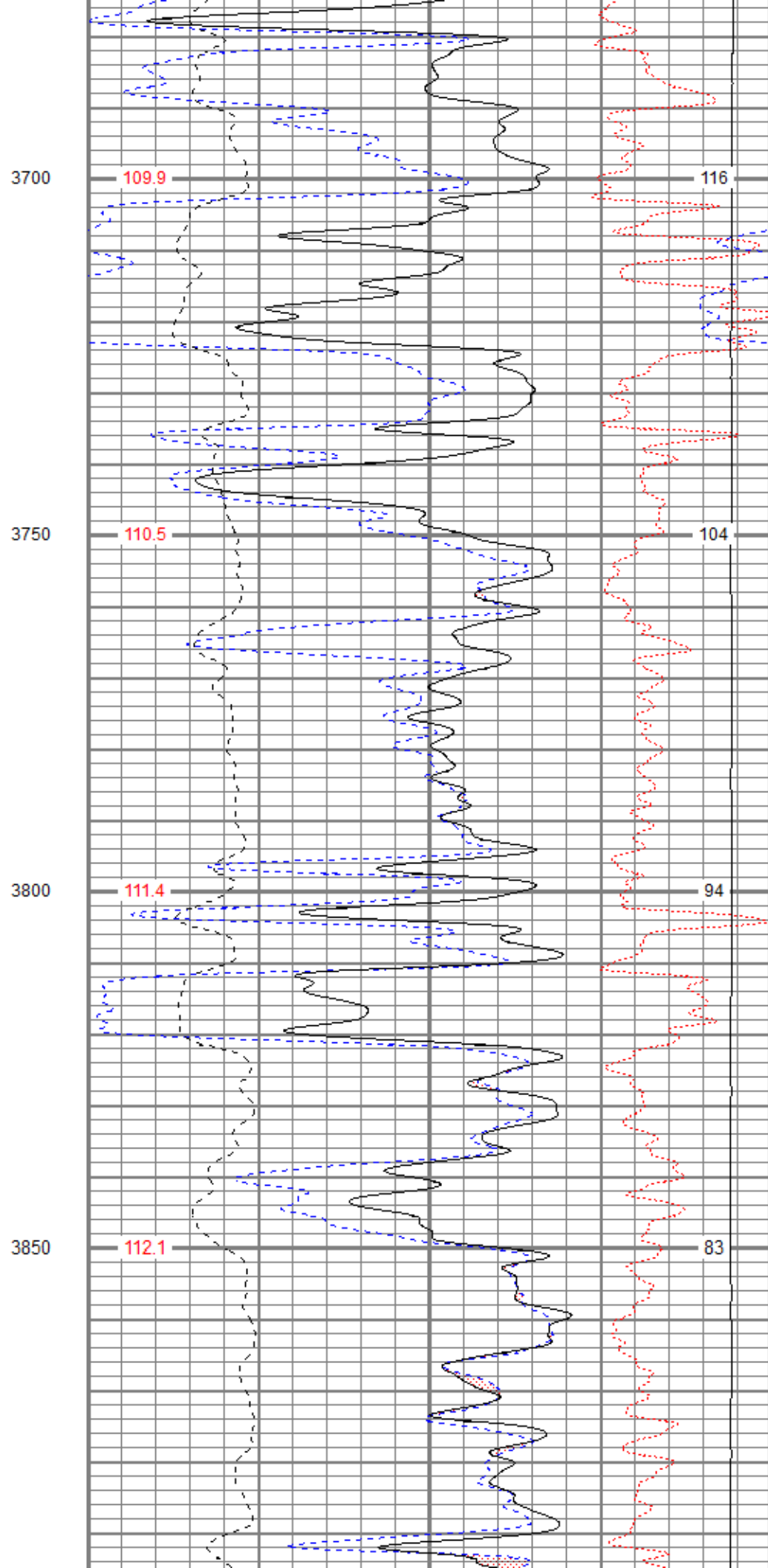
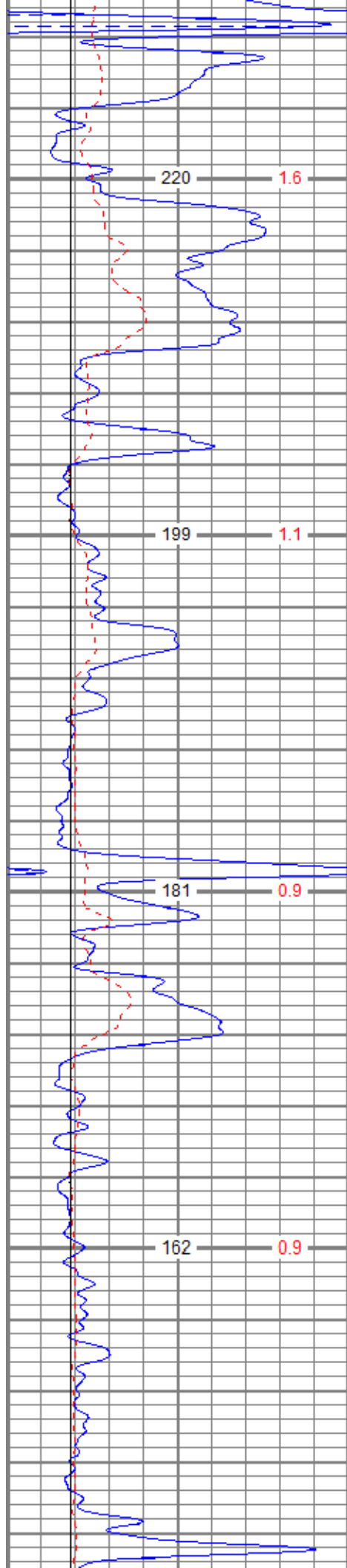
Main Pass

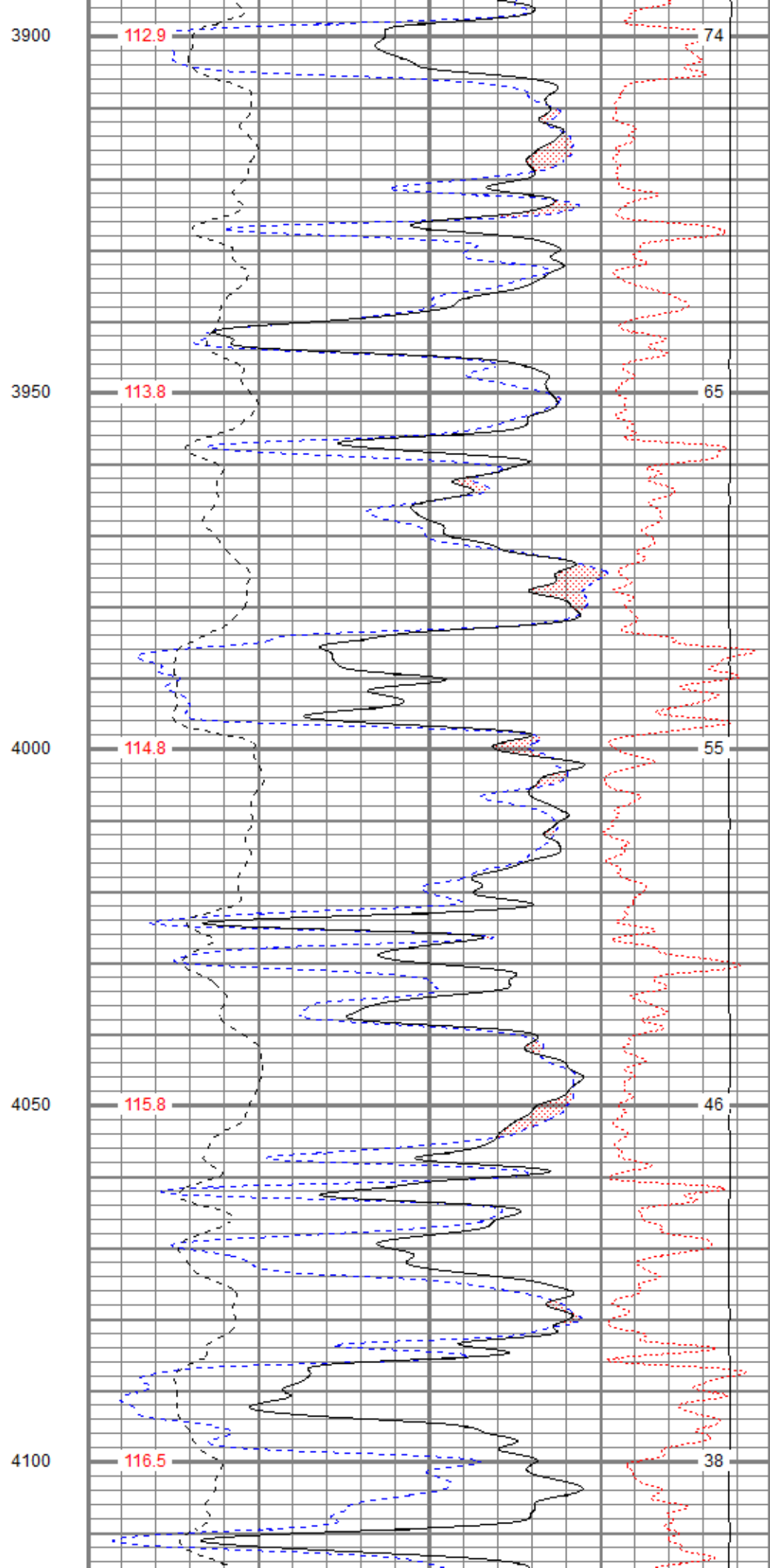
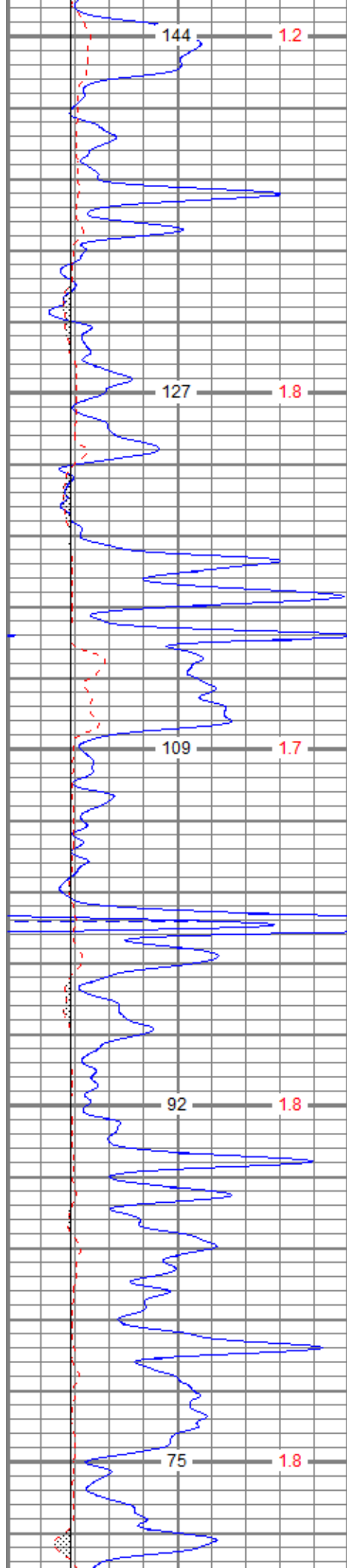
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 Presentation Format digital_kcdnl
 Dataset Creation Fri Dec 09 04:24:32 2016
 Charted by Depth in Feet scaled 1:240

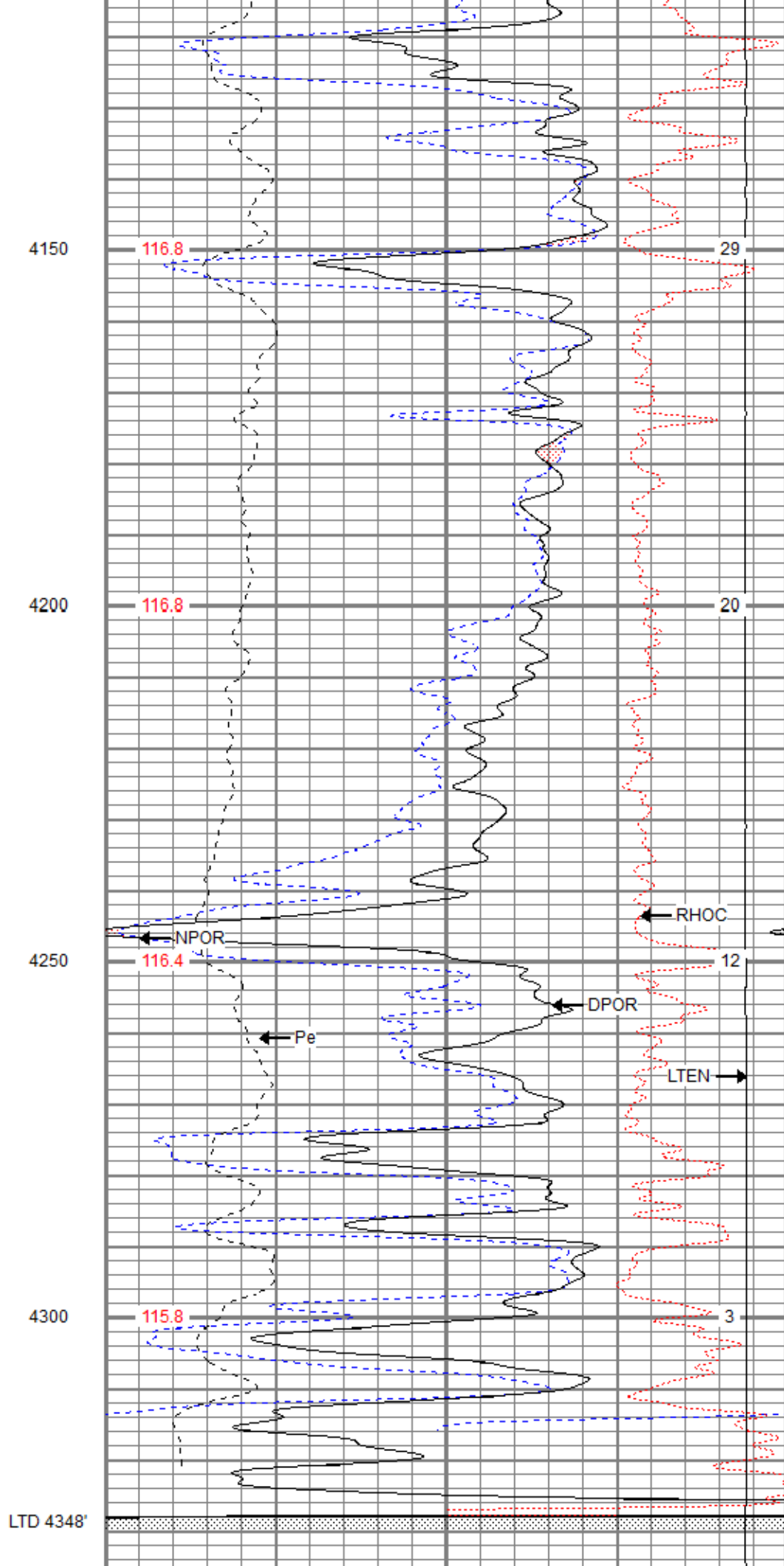
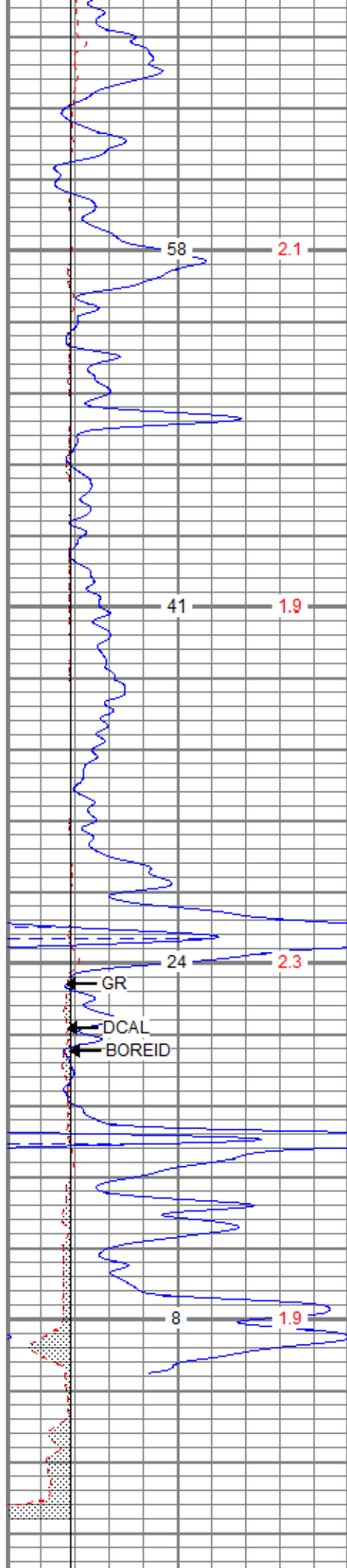
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
	TBHV (ft3)	DEVI (deg)

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









LTD 4348'

[illegible]

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

[illegible]

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



Database File tcbarricklow2-33oh.db

Dataset Pathname	pass2.1
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Presentation Format kcdnl

Dataset Creation Fri Dec 09 03:45:55 2016

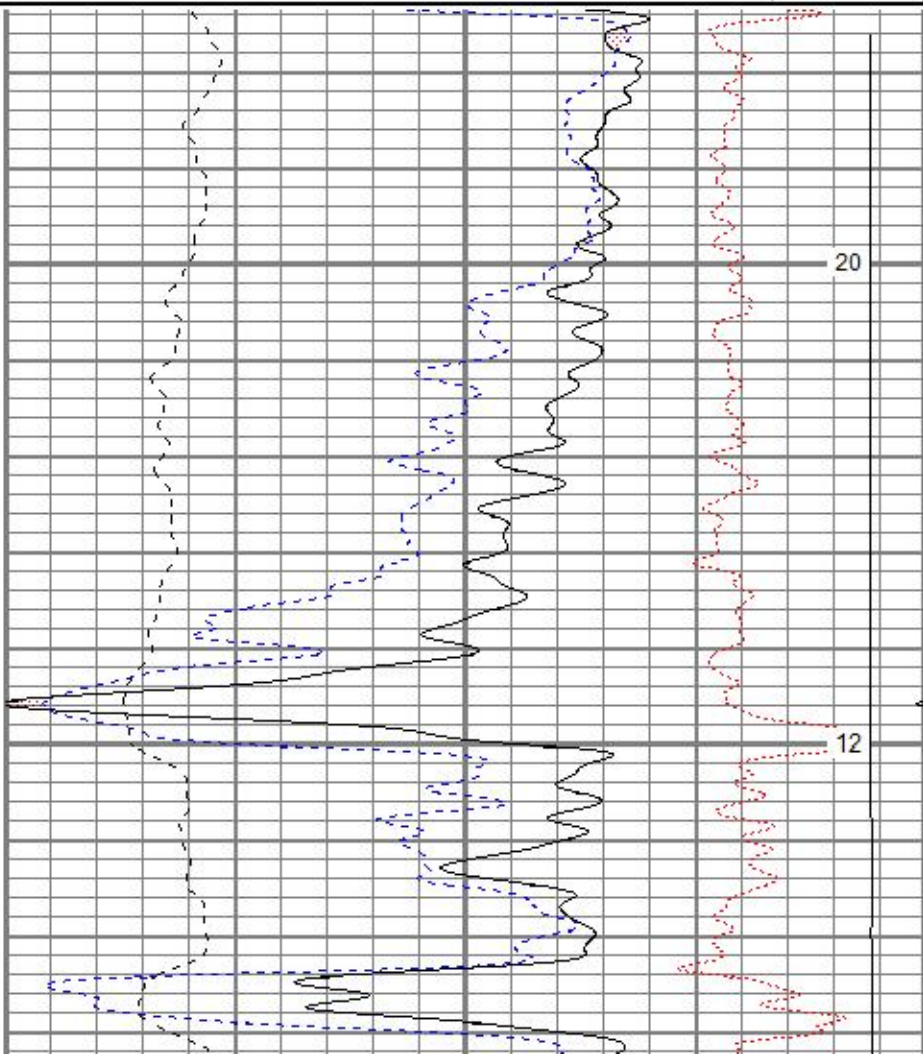
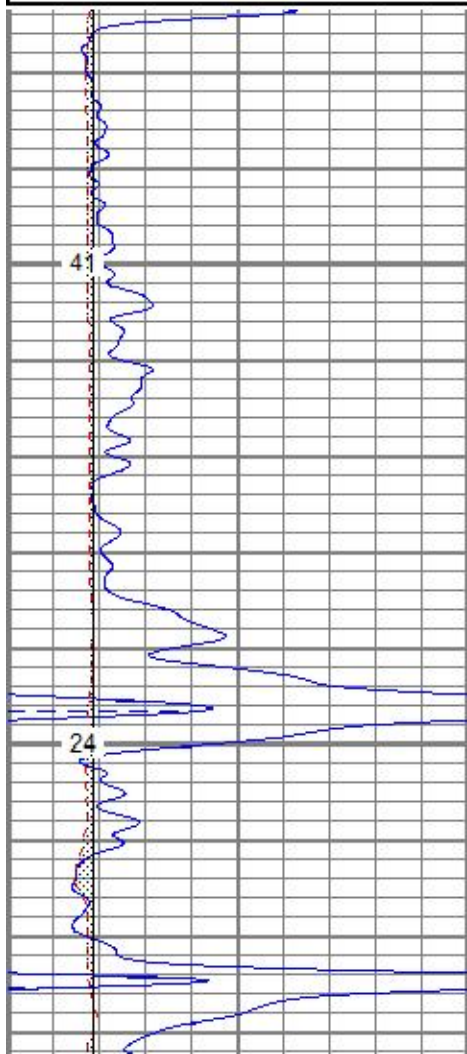
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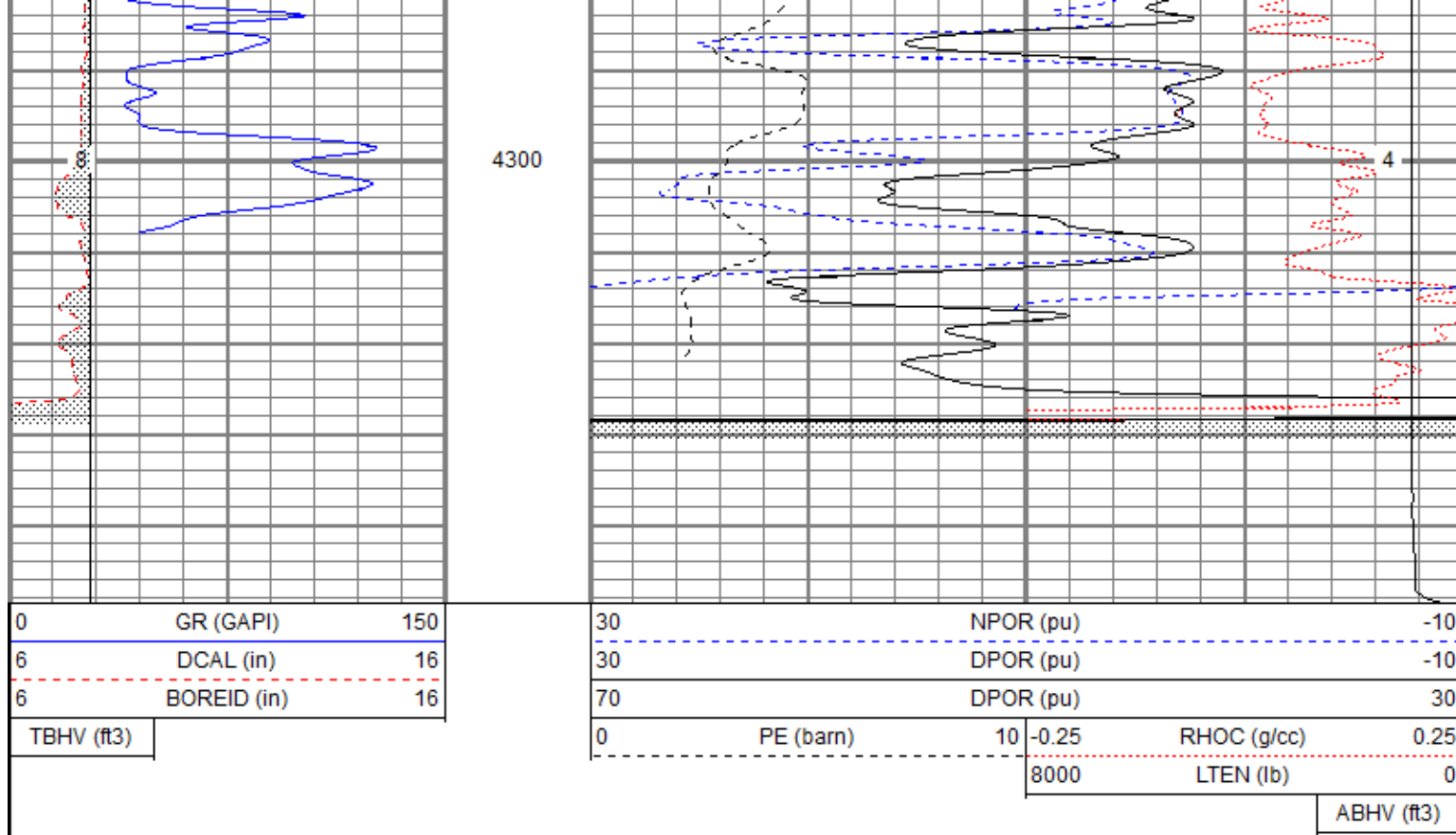
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16

TBHV (ft3)	
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30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

0	PE (barn)	10	-0.25	RHOC (g/cc)	0.25
			8000	LTEN (lb)	0

ABHV (ft3)



Calibration Report								
Database File	tcbarricklow2-33oh.db							
Dataset Pathname	pass2.1							
Dataset Creation	Fri Dec 09 03:45:55 2016							
Dual Induction Calibration Report								
Serial-Model:			1989-ADM					
Surface Cal Performed:			Mon Jul 11 21:35:42 2016					
Downhole Cal Performed:			Mon Jul 11 21:36:11 2016					
After Survey Verification Performed:			Mon Jul 11 21:36:11 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	200.177	-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

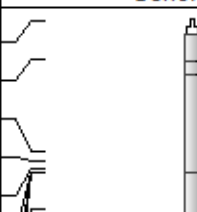
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Neutron Calibration Report			
Serial Number:	Admyr		
Tool Model:	G		
Performed:	Mon Mar 14 10:45:21 2016		
Calibrator Value:	1	NAPI	
Calibrator Reading:	1	cps	
Sensitivity:	1	NAPI/cps	

Gamma Ray Calibration Report			
Serial Number:	1		
Tool Model:	A		
Performed:	Fri Dec 09 02:53:26 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 Nov 13 12:11:33 2015				
	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)	0.83	3.50	10.00
TEMP	35.35		Pulsed Interface Tool #1			
ASTAT	35.06		ADT1ADC-A (1)	0.83	3.50	10.00
GRD	34.81		Analog Interface #1			
			ADT1SENSORS-A (1)	4.54	3.50	10.00

Tool Name	Weight (lb)	Length (ft)	OD (in)
ADT1SENSOR-A (1)	4.34	3.50	10.00
NEU-G (Admyr) Gearhart Epithermal	5.65	3.50	85.00
ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
DIL-ADM (1989) Dual Induction	19.71	4.00	300.00
ACCY	34.65		
ACCX	34.65		
SSTAT	34.65		
NEU	33.46		
LStat	22.54		
LS8	21.88		
LS7	21.88		
LS6	21.88		
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		
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		
RLL3	1.70		
TR_Mon	0.00		
Dataset:	tcbarriklow2-33oh.db: field/well/run1/pass2.1		
Total length:	39.69 ft		
Total weight:	656.00 lb		
O.D.:	4.00 in		