



**COMPENSATED DENSITY
NEUTRON
LOG**

Company John O. Farmer, Inc.

Well Leiker Unit #1

Field Wildcat

County Thomas

State KS

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Well Leiker Unit #1
Field Wildcat
County Thomas
State KS

Location: API #: 15 193 20964
2620' FSL & 540' FWL

SEC 12 TWP 6S RGE 33W

Permanent Datum Ground Level Elevation 3078'
Log Measured From KB 8' AGL
Drilling Measured From KB

Other Services
ML
DIL
Elevation

K.B. 3086'
D.F. 3085'
G.L. 3078'

Date	7-25-16
Run Number	One
Depth Driller	4610'
Depth Logger	4612'
Bottom Logged Interval	4589'
Top Log Interval	3600'
Casing Driller	263'
Casing Logger	263'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical Mud
Density / Viscosity	9.3/56
PH / Fluid Loss	10/9.6
Source of Sample	Pit
Rm @ Meas. Temp	2.5@76degf
Rmf @ Meas. Temp	1.87@76degf
Rmc @ Meas. Temp	3.0@76degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	1.52@125degf
Time Circulation Stopped	10:30 p.m.
Time Logger on Bottom	12:45 a.m.
Maximum Recorded Temperature	125 degf
Equipment Number	T127
Location	Hays, KS.
Recorded By	Gus Pfannenstiel
Witnessed By	Mr. Austin Klaus

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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 Colby to DD Rd., East 4 miles

Thank you for using Gemini Wireline
785-625-1182



Main Pass

Database File jofleikerunit#1oh.db
 Dataset Pathname pass2.1
 Presentation Format DIGITA~1
 Dataset Creation Mon Jul 25 01:26:45 2016
 Charted by Depth in Feet scaled 1:240

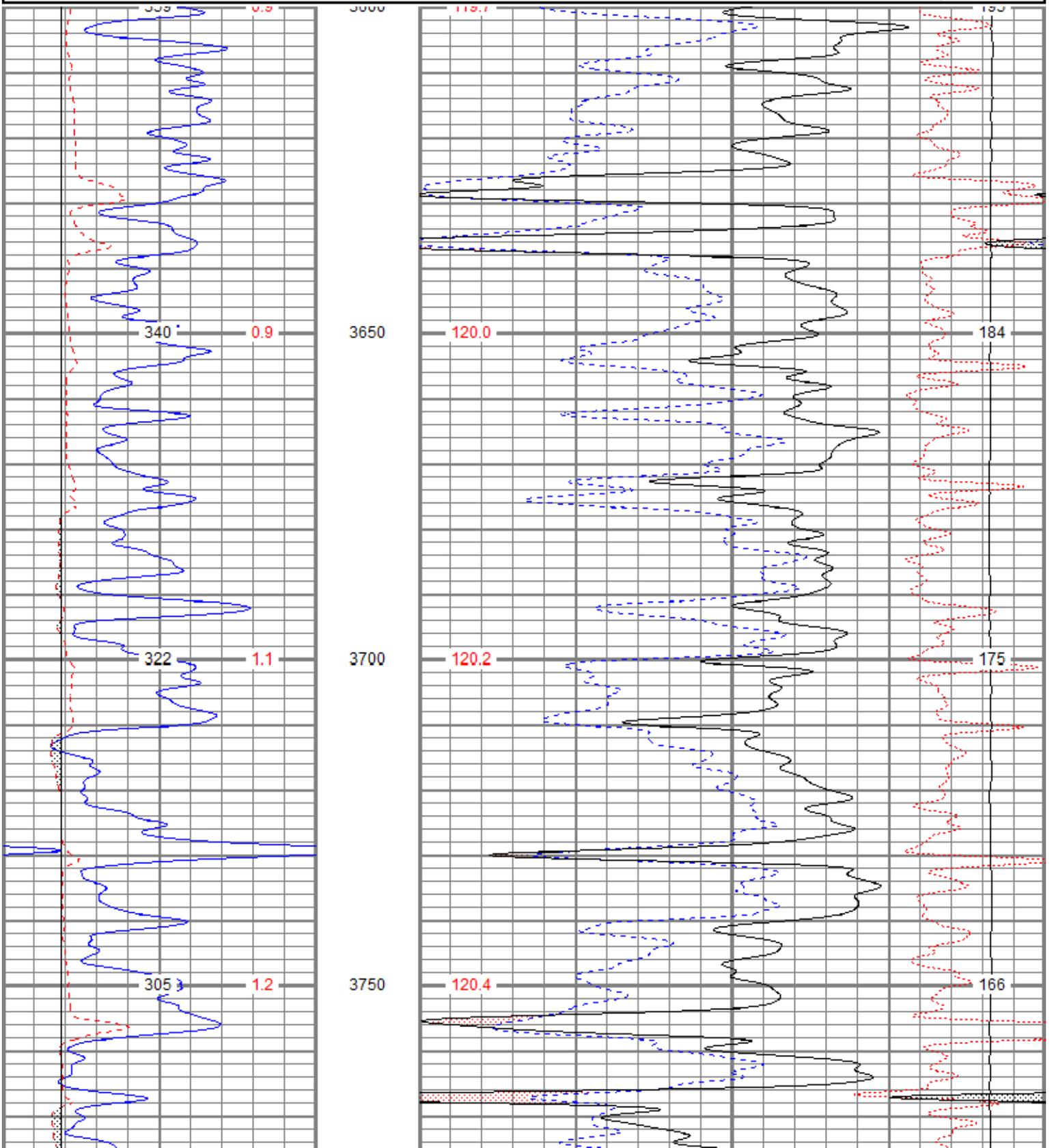
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16

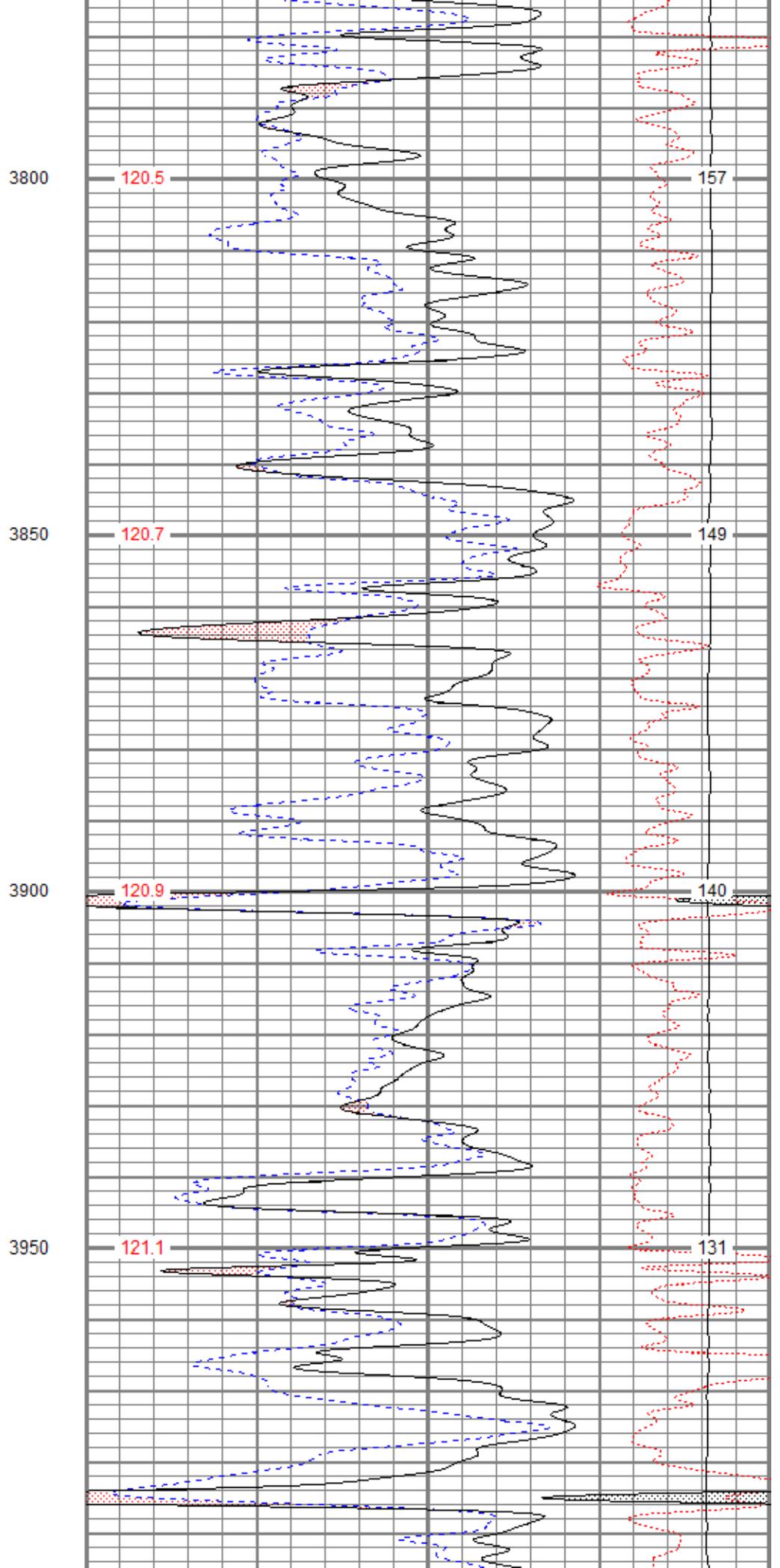
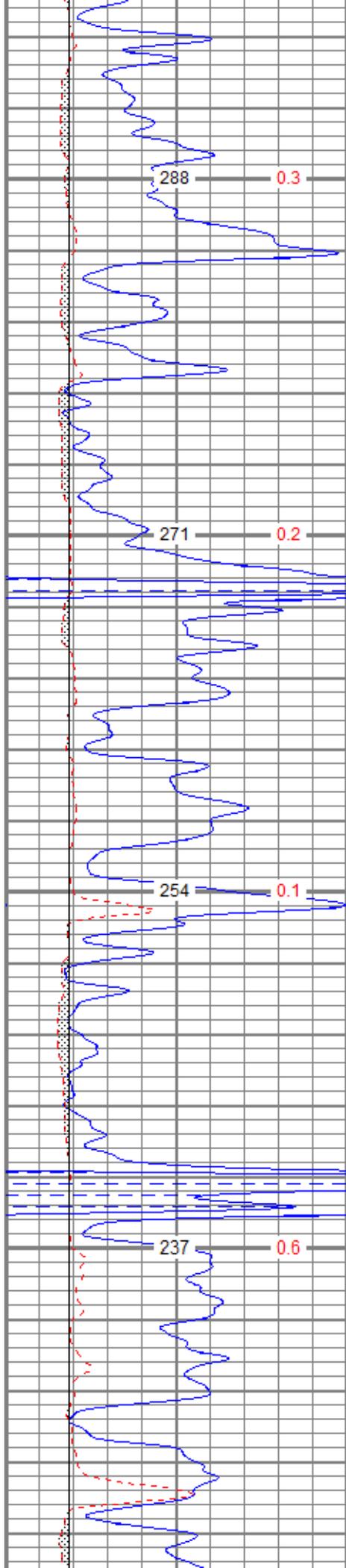
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

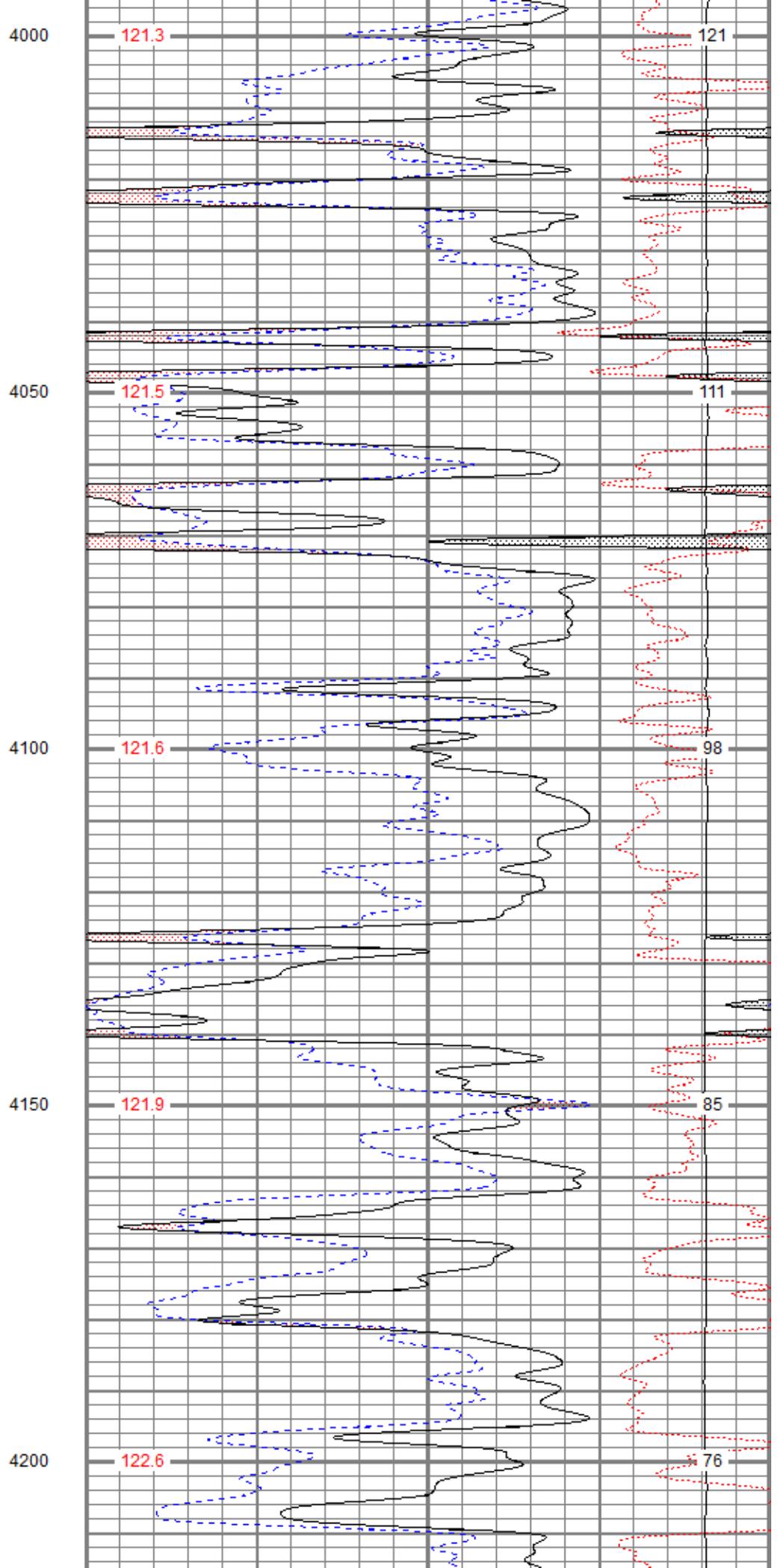
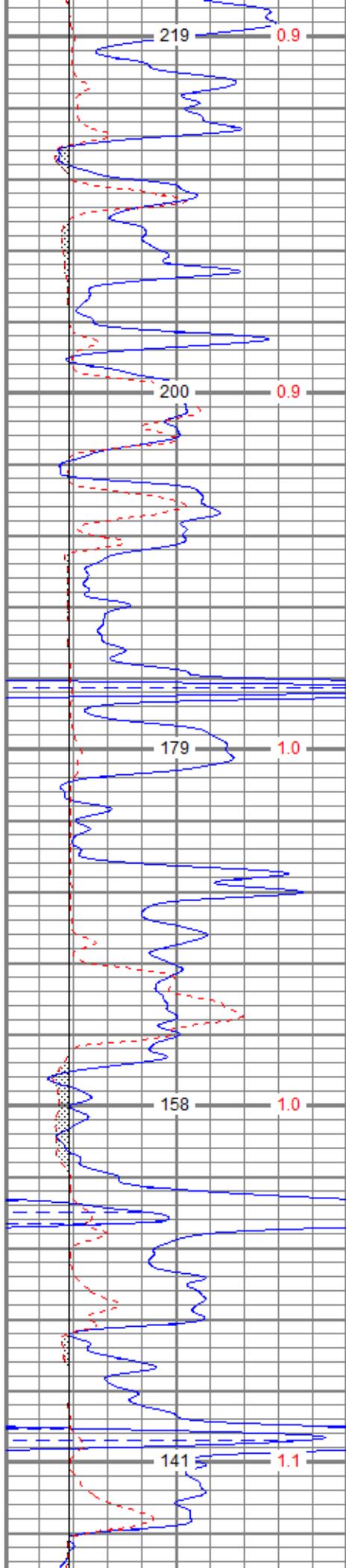
TBHV (ft3)	DEVI (deg)
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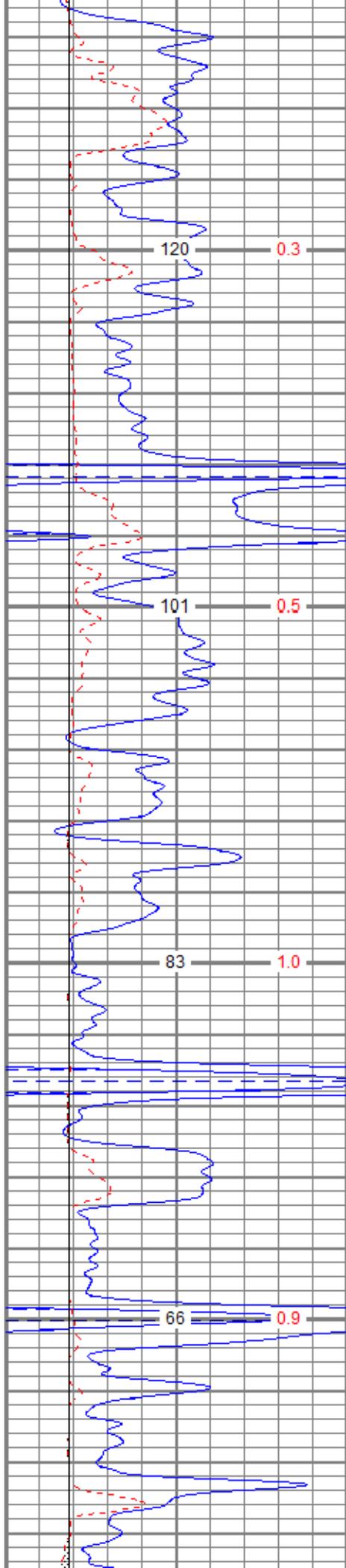
TEMP (degF)	-0.25	RHOC (g/cc)	0.25
	8000	LTEN (lb)	0

ABHV (ft3)

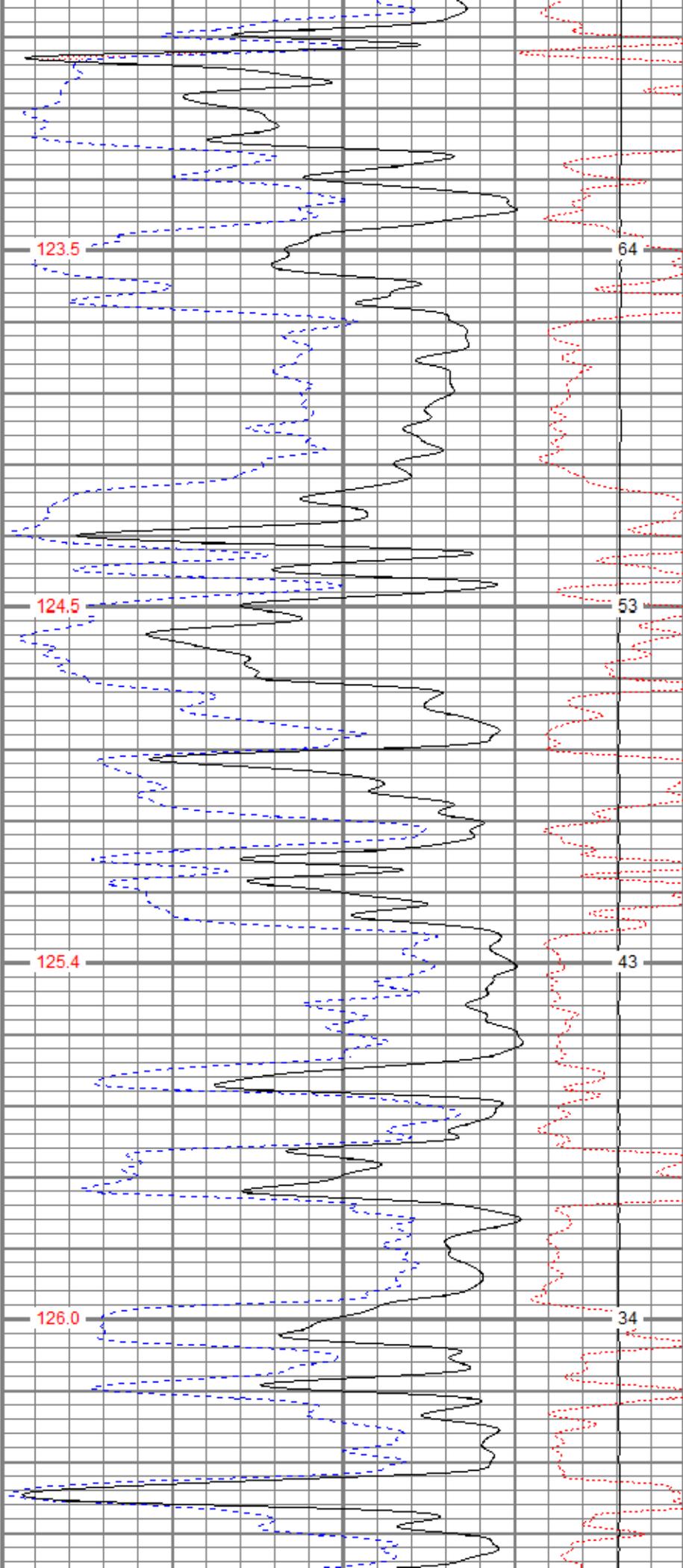








4250



64

4300

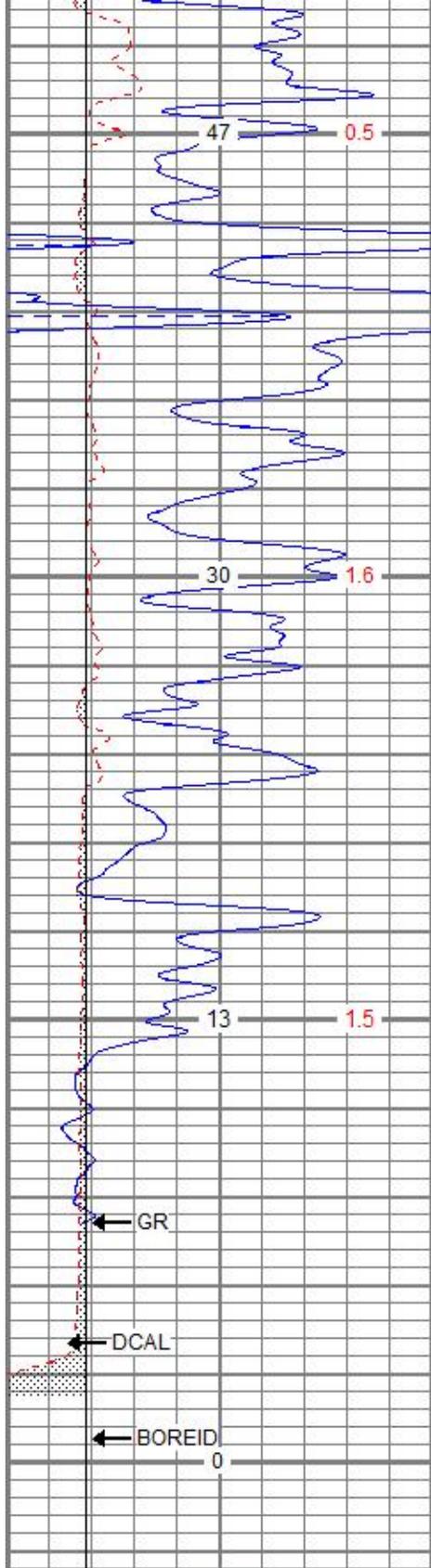
53

4350

43

4400

34

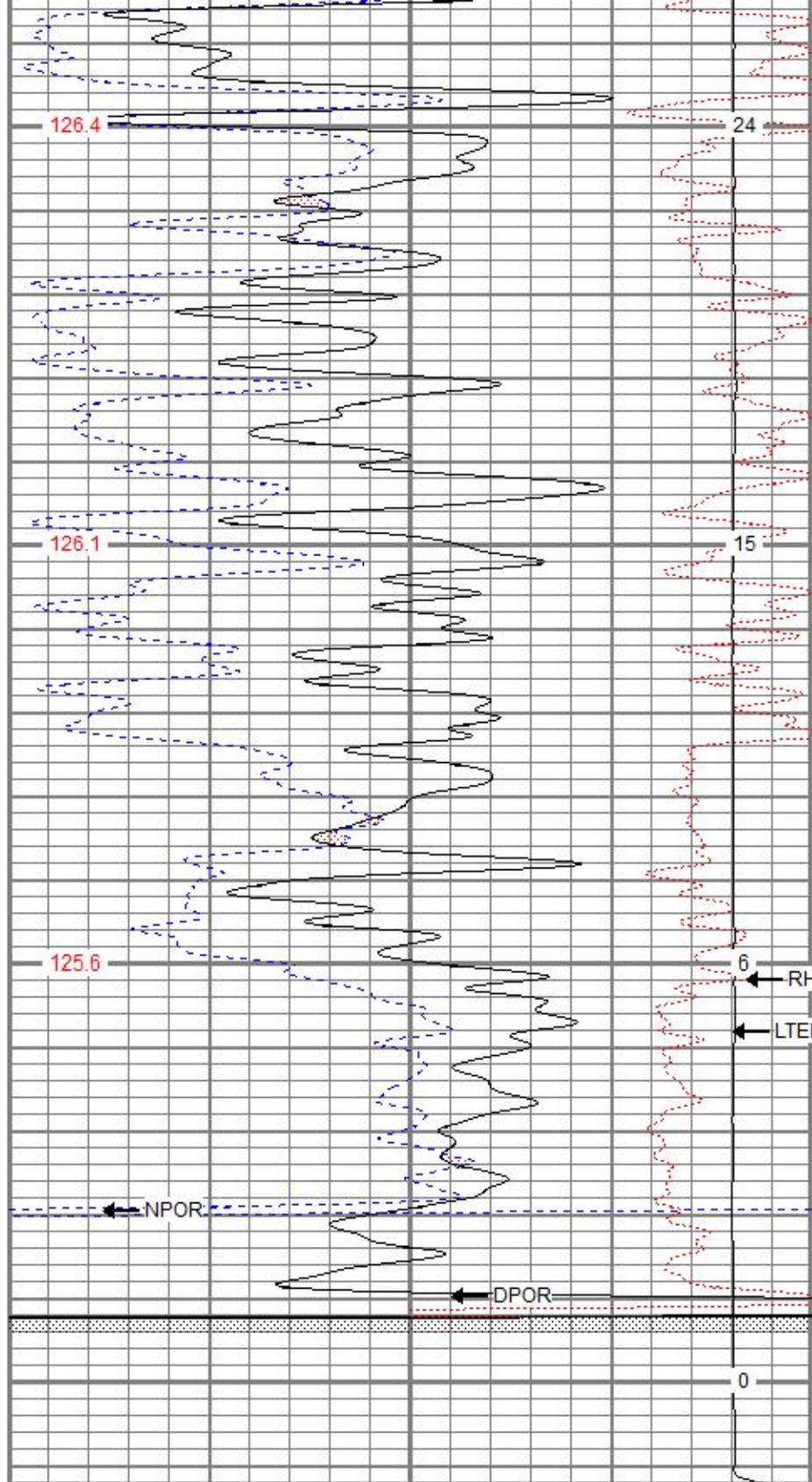


4450

4500

4550

4600



126.4

126.1

125.6

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

TBHV (ft3)	DEVI (deg)
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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)



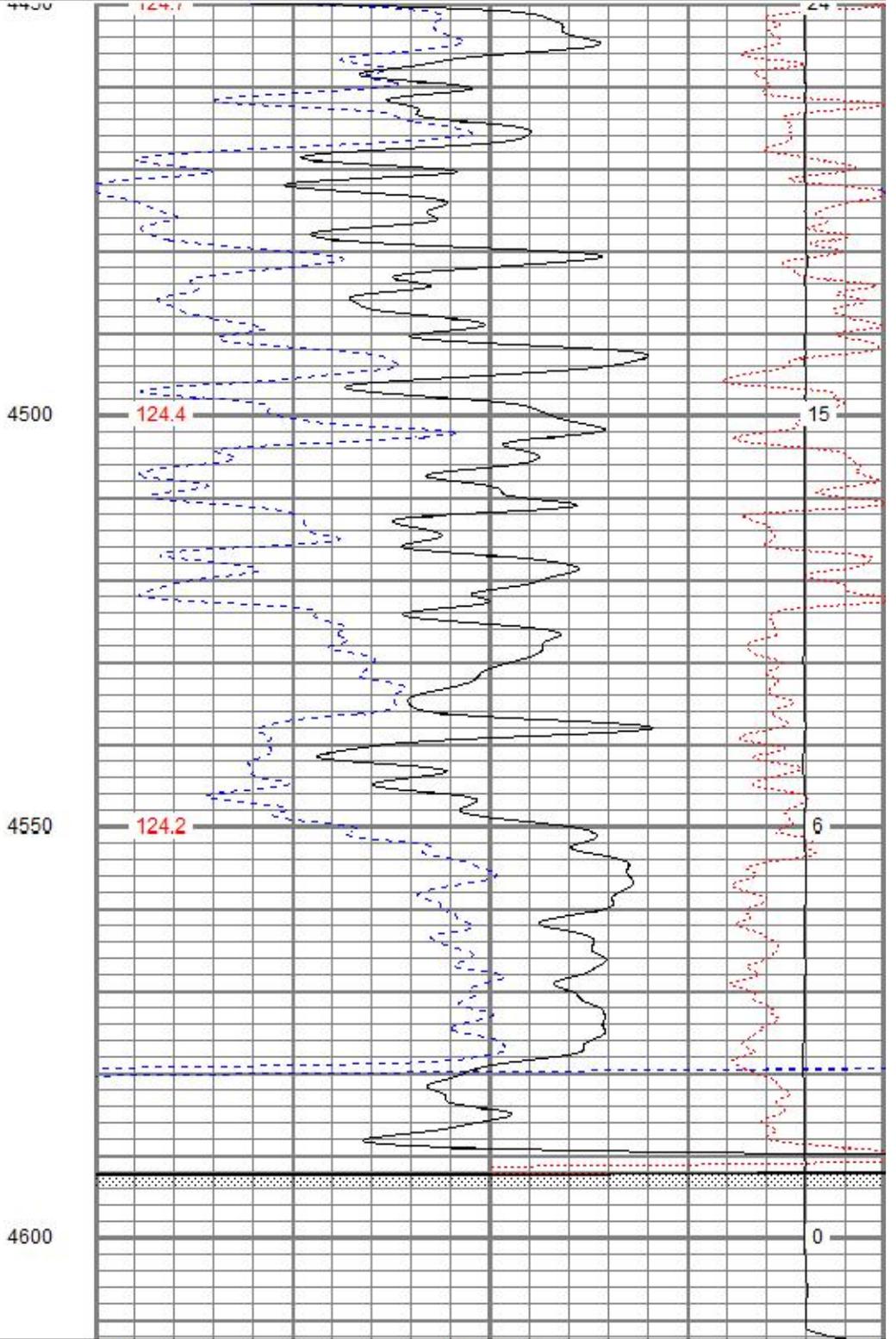
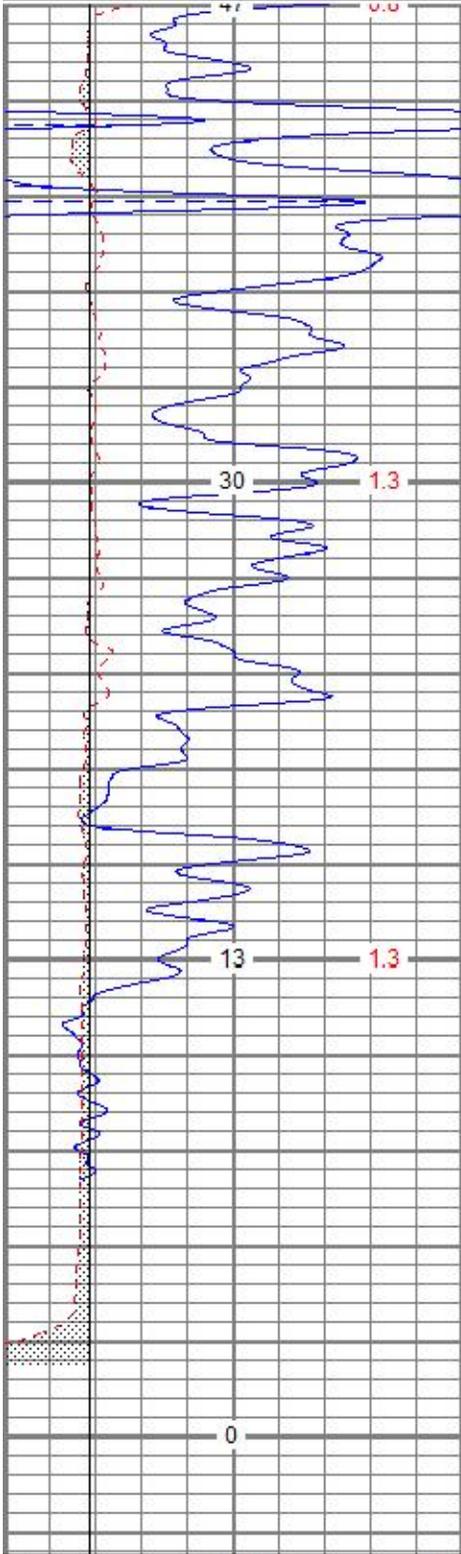
Repeat Pass



Repeat Pass

Database File joffeikerunit#1oh.db
 Dataset Pathname pass1
 Presentation Format digital_kcdnl
 Dataset Creation Mon Jul 25 00:53:27 2016
 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)	TEMP (degF)	-0.25	RHOC (g/cc) 0.25
			8000	LTEN (lb)	0
					ABHV (ft3)



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

Calibration Report

Database File jofleikerunit#1oh.db
 Dataset Pathname pass1
 Dataset Creation Mon Jul 25 00:53:27 2016

Dual Induction Calibration Report

Serial-Model: 1842-ADM
 Surface Cal Performed: Tue Jun 28 11:52:02 2016
 Downhole Cal Performed: Fri Aug 07 23:09:02 2015
 After Survey Verification Performed: Fri Aug 07 23:09:00 2015

Surface Calibration

Loop:	Readings				References		Results	
	Air	Loop			Air	Loop	m	b
Deep	0.014	0.660	V	0.000	350.000	mmho/m	541.845	-7.742
Medium	0.003	0.761	V	0.000	400.000	mmho/m	527.924	-1.569
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.013	0.663	V	0.000	350.000	mmho/m	538.740	-6.964
Medium	0.003	0.761	V	0.000	550.000	mmho/m	726.060	-2.265

Downhole Calibration

Internal:	Readings				References		Results	
	Zero	Cal			Zero	Cal	m	b
Deep	-0.857	351.396	mmho/m	-0.737	351.280	mmho/m	0.999	0.118
Medium	0.187	400.090	mmho/m	0.077	399.987	mmho/m	1.000	-0.110
Shallow	2.543	0.024	V	500.000	2.000	Ohm-m	197.760	-3.000

After Survey Verification

Internal:	Readings				Targets		Results	
	Zero	Cal			Zero	Cal	m'	b'
Deep	0.000	0.000	mmho/m	-0.857	351.396	mmho/m	0.999	0.118
Medium	0.000	0.000	mmho/m	0.187	400.090	mmho/m	1.000	-0.110
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Neutron Calibration Report

Serial Number: 2301AN
 Tool Model: Oilex
 Performed: Tue Jun 28 11:51:54 2016
 Calibrator Value: 1 NAPI
 Calibrator Reading: 1 cps
 Sensitivity: 1 NAPI/cps

Gamma Ray Calibration Report

Serial Number: 1
 Tool Model: A

Tool Model: A
 Performed: Tue Jun 28 11:51:59 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	38.23		CHD-STD	0.50	1.69	1.00
GR	36.95		ADT1PULSE-A (1) Pulsed Interface Tool #1	0.83	3.50	10.00
			ADT1ADC-A (1) Analog Interface #1	0.83	3.50	10.00
TEMP	33.98		ADT1SENSORS-A (1)	4.54	3.50	10.00
ASTAT	33.69					
GRD	33.44					
ACCY	33.27		NEU-Oilex (2301AN) Oilex 100V NEU	4.27	3.50	80.00
ACCX	33.27					
SSTAT	33.27					
NEU	32.50					
LStat	22.54					
LS8	21.88					
LS7	21.88		ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
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		DIL-ADM (1842) Dual Induction	19.71	4.00	300.00
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: joffeikerunit#1oh.db: field/well/run1/pass1
 Total length: 38.31 ft
 Total weight: 651.00 lb
 O.D.: 4.00 in