



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1306888
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1306888

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Prairie Fire Petroleum, LLC
Well Name	Dane G. Hansen Foundation 1-15
Doc ID	1306888

Tops

Name	Top	Datum
Anhydrite	1911	+286
Base/Anhydrite	1936	+261
Topeka	3238	-1041
Heebner Shale	3436	-1239
Toronto	3468	-1281
Lansing	3482	-1285
Base/Kansas City	3680	-1483
Arbuckle	3801	-1604
Granite	3852	-1655



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Prarie Fire Petroleum, LLC.

PO Box 38
Norton, KS 67654

ATTN: Kevin Bailey

Dane Hansen Fnd.1-15

Job Ticket: 65312

DST#: 1

Test Start: 2016.04.13 @ 13:08:00

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:23:40

Time Test Ended: 18:43:00

Test Type: Conventional Straddle (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 3412.00 ft (KB) To 3482.00 ft (KB) (TVD)

Reference Elevations: 2197.00 ft (KB)

Total Depth: 3875.00 ft (KB) (TVD)

2192.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8653 Outside

Press@RunDepth: 1316.41 psig @ 3413.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.04.13

End Date: 2016.04.13

Last Calib.: 2016.04.13

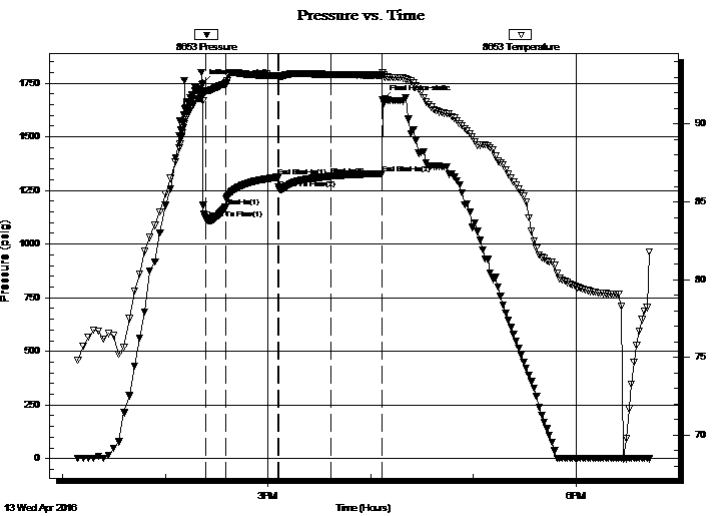
Start Time: 13:09:00

End Time: 18:43:00

Time On Btm: 2016.04.13 @ 14:22:00

Time Off Btm: 2016.04.13 @ 16:07:00

TEST COMMENT: 15 - IF- BoB in 30 sec.
30 - IS- Weak Surface Return built to 2 1/4"
30 - FF- BoB in 20 sec then blow died back to 9"
30 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1749.54	91.79	Initial Hydro-static
2	1119.92	92.13	Open To Flow (1)
14	1172.57	92.61	Shut-In(1)
44	1312.02	93.10	End Shut-In(1)
45	1257.06	93.08	Open To Flow (2)
75	1316.41	93.18	Shut-In(2)
105	1329.37	93.15	End Shut-In(2)
105	1674.13	93.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud (Heavy) 100%M	0.14
1817.00	MW 2%M 98%W	25.49
504.00	MW 10%M 90%W	7.07
389.00	WM 60%M 40%W	5.46

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prarie Fire Petroleum, LLC.

PO Box 38
Norton, KS 67654

ATTN: Kevin Bailey

Dane Hansen Fnd.1-15

Job Ticket: 65312

DST#: 1

Test Start: 2016.04.13 @ 13:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 6.40 in³

Resistivity: 0.00 ohm.m

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: 55000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud (Heavy) 100%M	0.140
1817.00	MW 2%M 98%W	25.488
504.00	MW 10%M 90%W	7.070
389.00	WM 60%M 40%W	5.457

Total Length: 2720.00 ft Total Volume: 38.155 bbl

Num Fluid Samples: 0

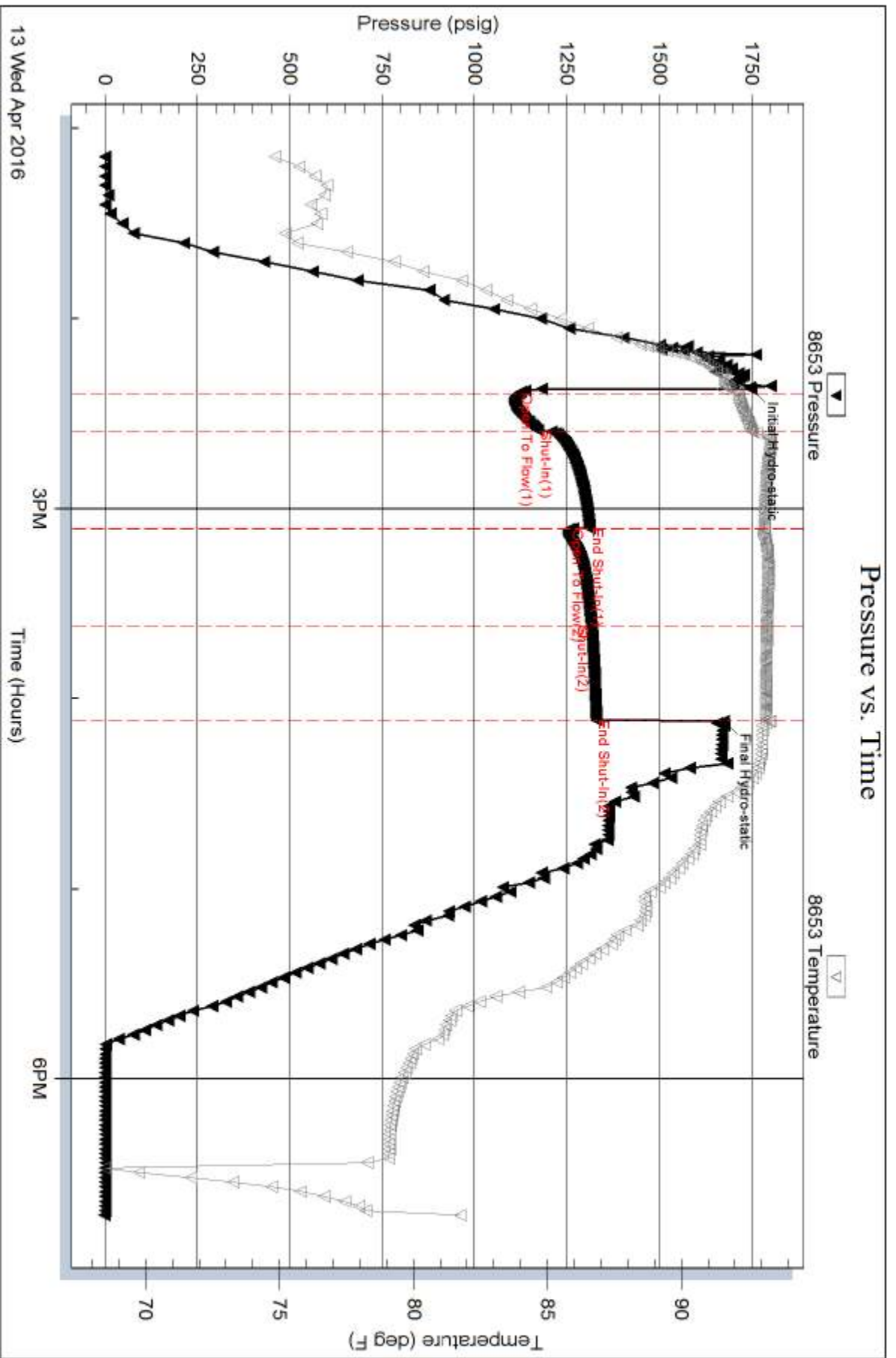
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW . 13 @ 84 deg.= 55,000ppm



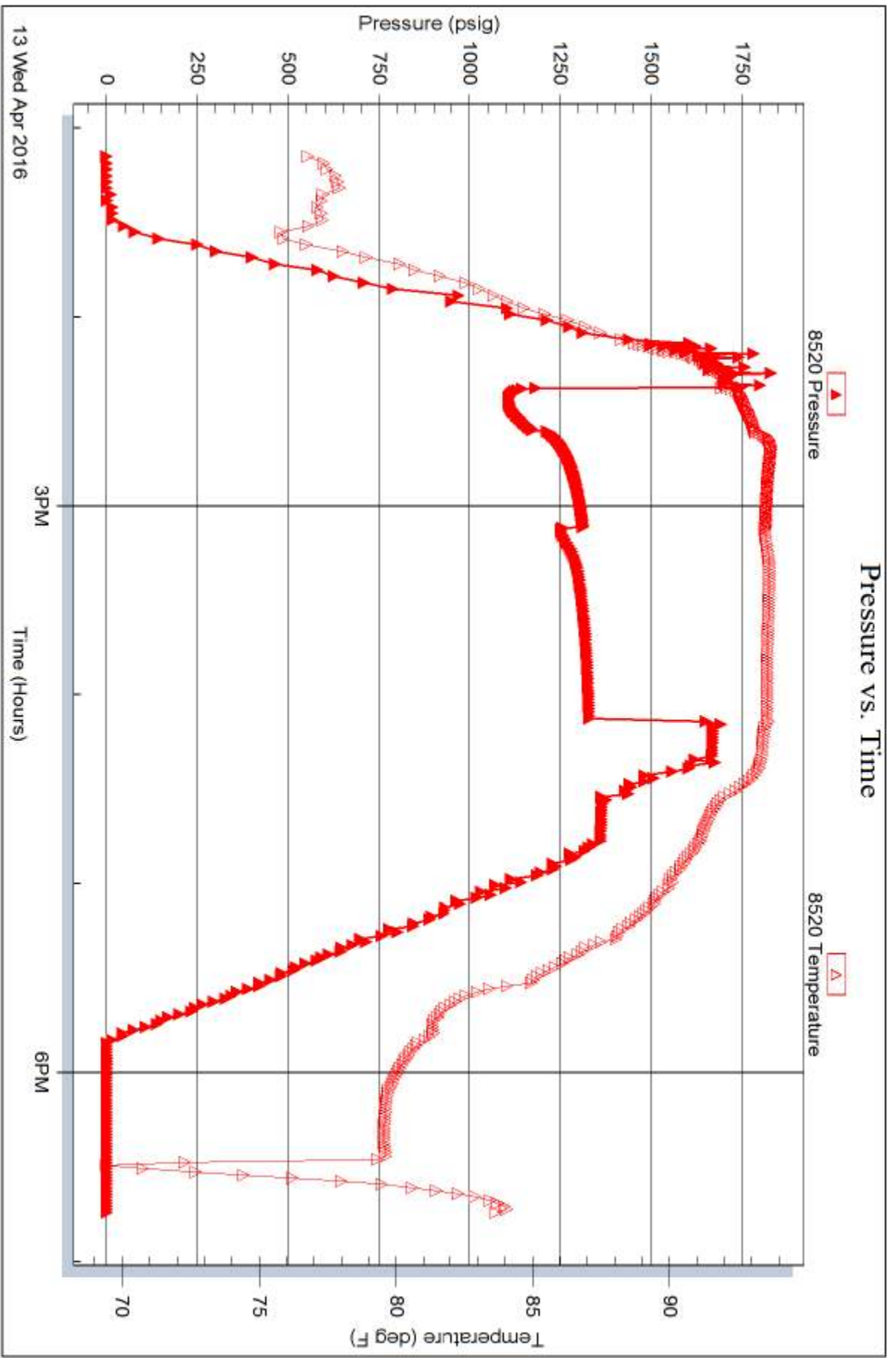
Serial #: 8520

Inside

Parie Fire Petroleum, LLC.

Dane Hansen Fnd.1-15

DST Test Number: 1

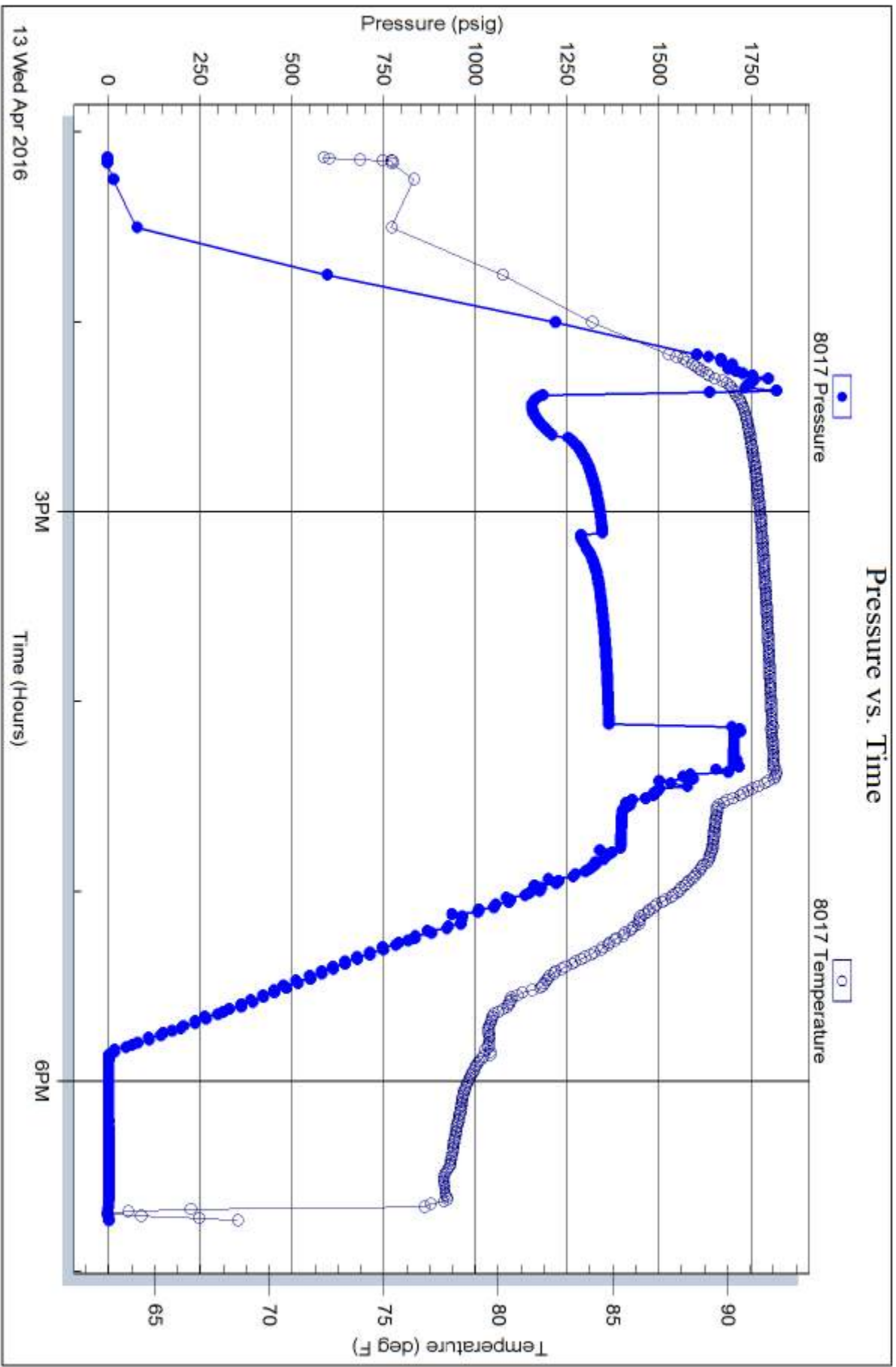


13 Wed Apr 2016

Trilobite Testing, Inc

Ref. No: 65312

Printed: 2016.04.13 @ 19:56:06





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prarie Fire Petroleum, LLC.

PO Box 38
Norton, KS 67654

ATTN: Kevin Bailey

Dane Hansen Fnd.1-15

Job Ticket: 65313

DST#: 2

Test Start: 2016.04.14 @ 00:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 6.40 in³

Resistivity: 0.00 ohm.m

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
600.00	Mud 100M	8.416

Total Length: 600.00 ft Total Volume: 8.416 bbl

Num Fluid Samples: 0

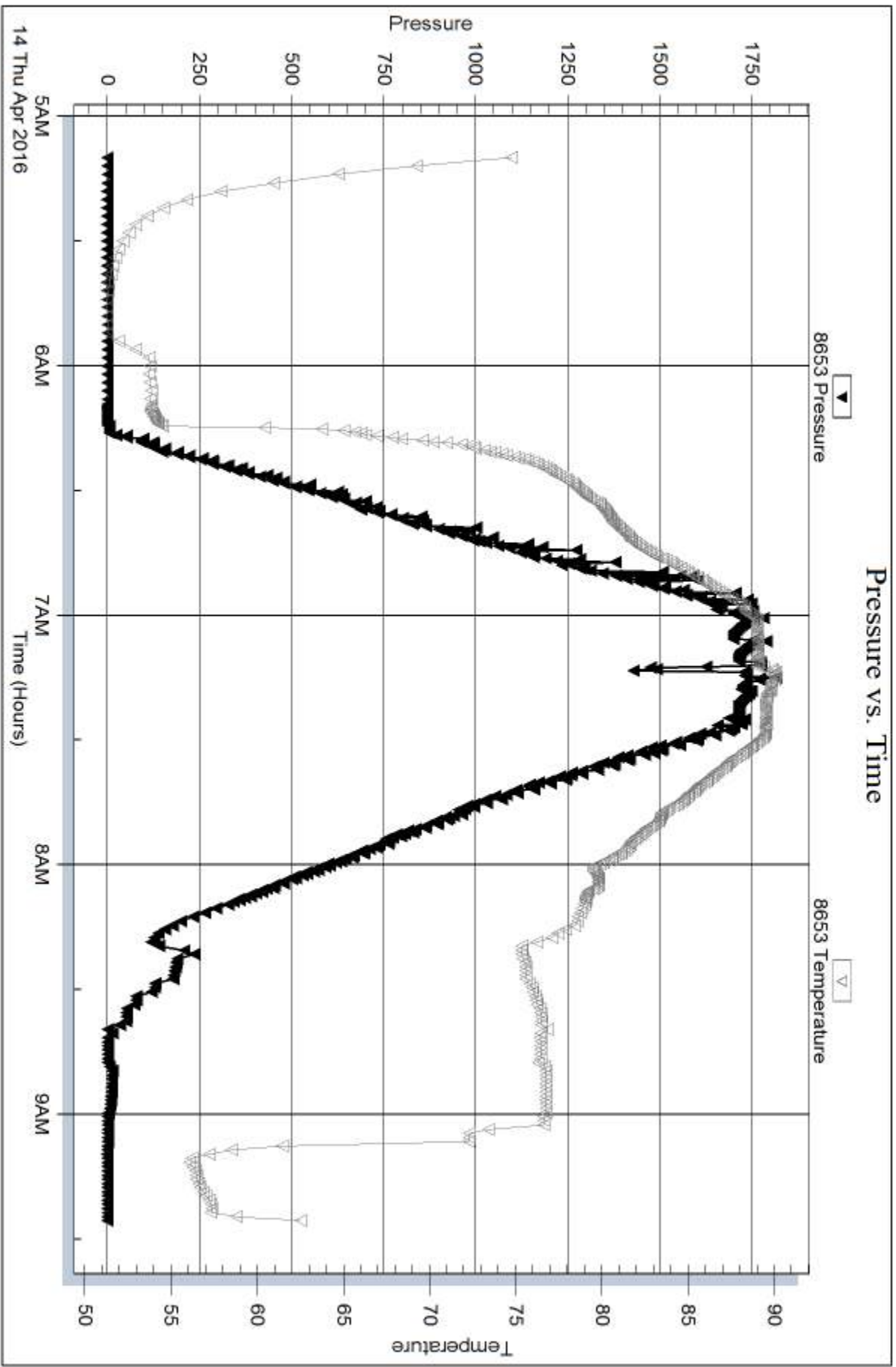
Num Gas Bombs: 0

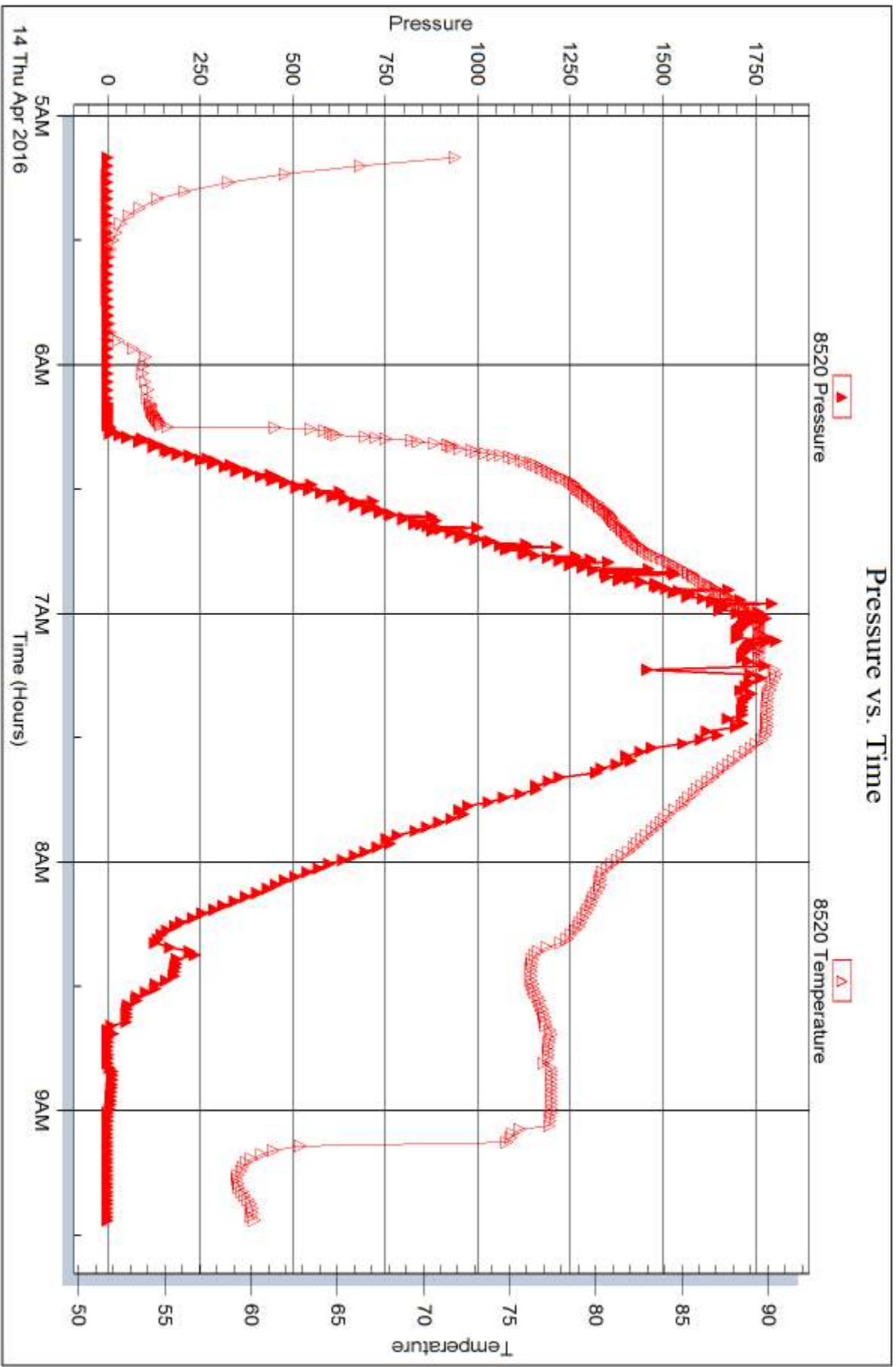
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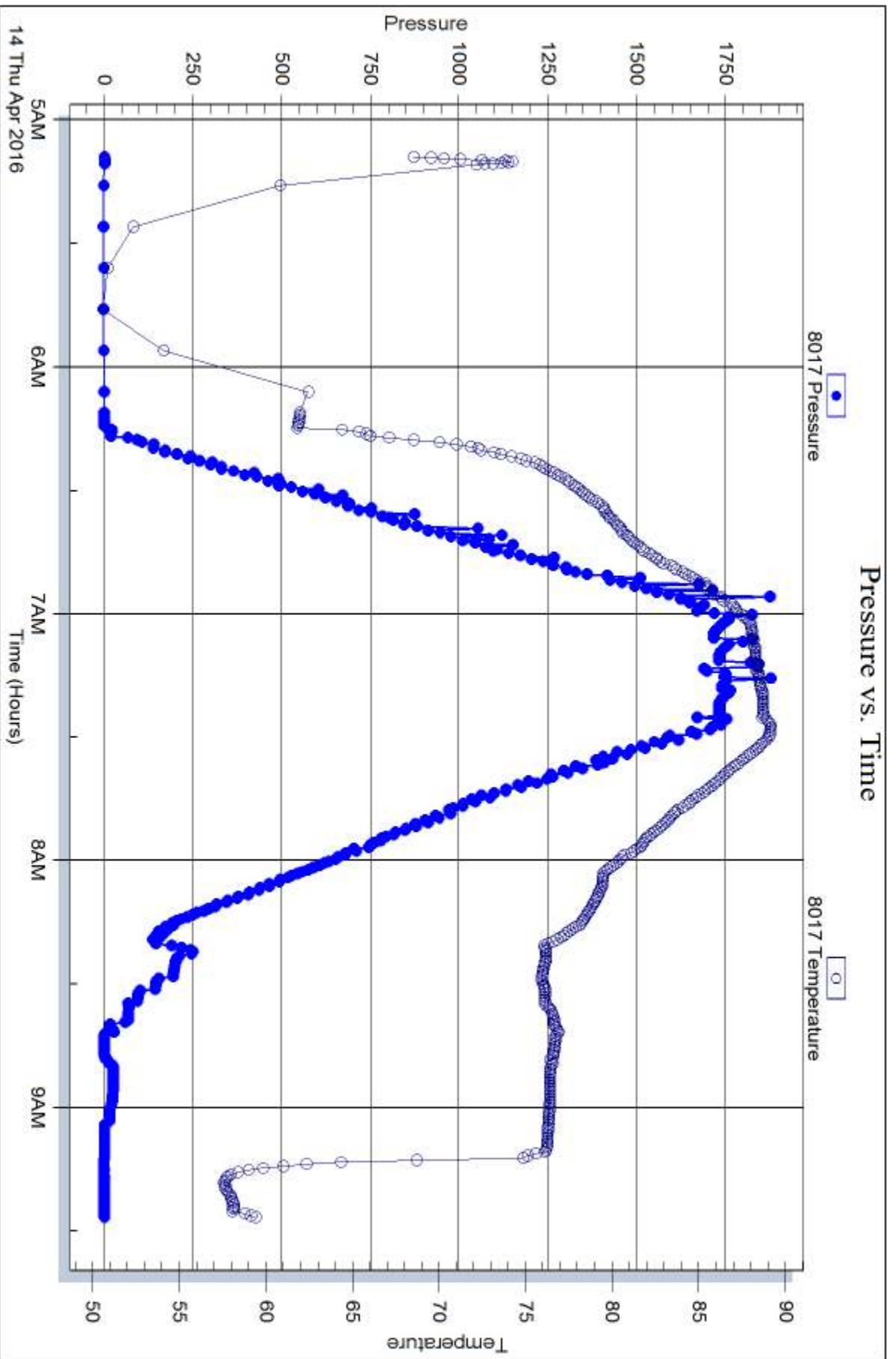
Laboratory Name:

Laboratory Location:

Recovery Comments:









**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prarie Fire Petroleum, LLC.

PO Box 38
Norton, KS 67654

ATTN: Kevin Bailey

Dane Hansen Fnd.1-15

Job Ticket: 65315

DST#: 3

Test Start: 2016.04.14 @ 13:41:00

GENERAL INFORMATION:

Formation: **LKC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:17:40

Time Test Ended: 18:34:30

Test Type: Conventional Straddle (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 3571.00 ft (KB) To 3592.00 ft (KB) (TVD)

Total Depth: 3875.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2197.00 ft (KB)

2192.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8653 Outside

Press@RunDepth: 63.75 psig @ 3571.00 ft (KB)

Start Date: 2016.04.14

End Date: 2016.04.14

Start Time: 13:42:00

End Time: 18:34:30

Capacity: 8000.00 psig

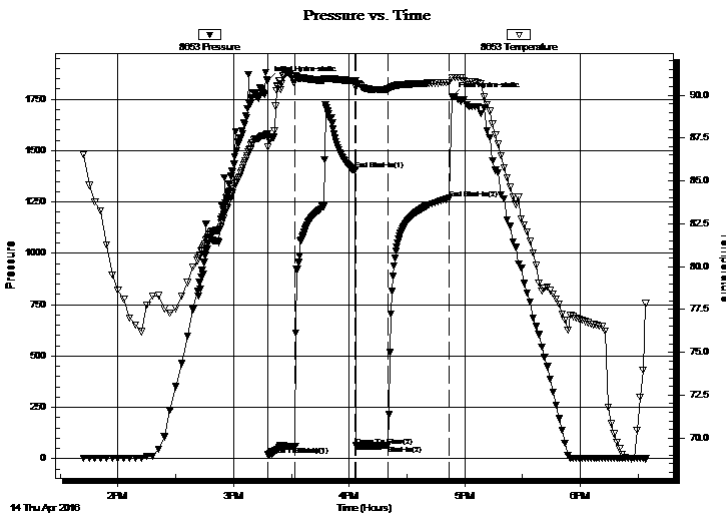
Last Calib.: 2016.04.14

Time On Btm: 2016.04.14 @ 15:17:30

Time Off Btm: 2016.04.14 @ 16:53:30

TEST COMMENT: 15 - IF- 1/8" Blow built to 8 3/4"
30 - ISI- No Return
15 - FF- Weak Surface Blow started at 2 min. Built to 3/4"
30 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1842.04	87.76	Initial Hydro-static
1	19.06	86.95	Open To Flow (1)
15	60.80	90.84	Shut-In(1)
46	1407.54	90.84	End Shut-In(1)
47	62.07	90.43	Open To Flow (2)
63	63.75	90.34	Shut-In(2)
95	1267.39	90.74	End Shut-In(2)
96	1761.34	91.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Mud 100M	1.26

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prarie Fire Petroleum, LLC.

PO Box 38
Norton, KS 67654

ATTN: Kevin Bailey

Dane Hansen Fnd.1-15

Job Ticket: 65315

DST#: 3

Test Start: 2016.04.14 @ 13:41:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 6.40 in³

Resistivity: 0.00 ohm.m

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Mud 100M	1.262

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0

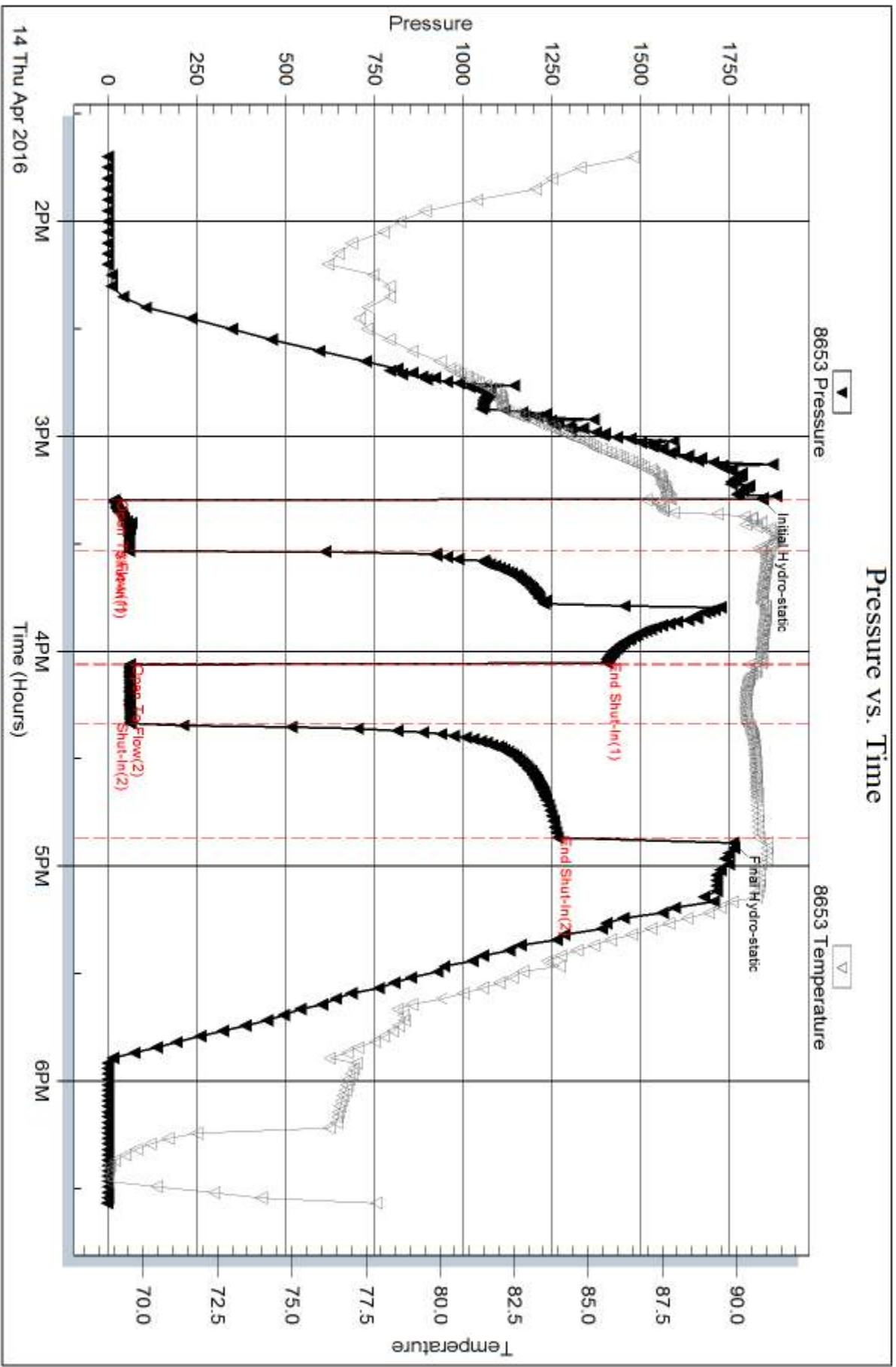
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



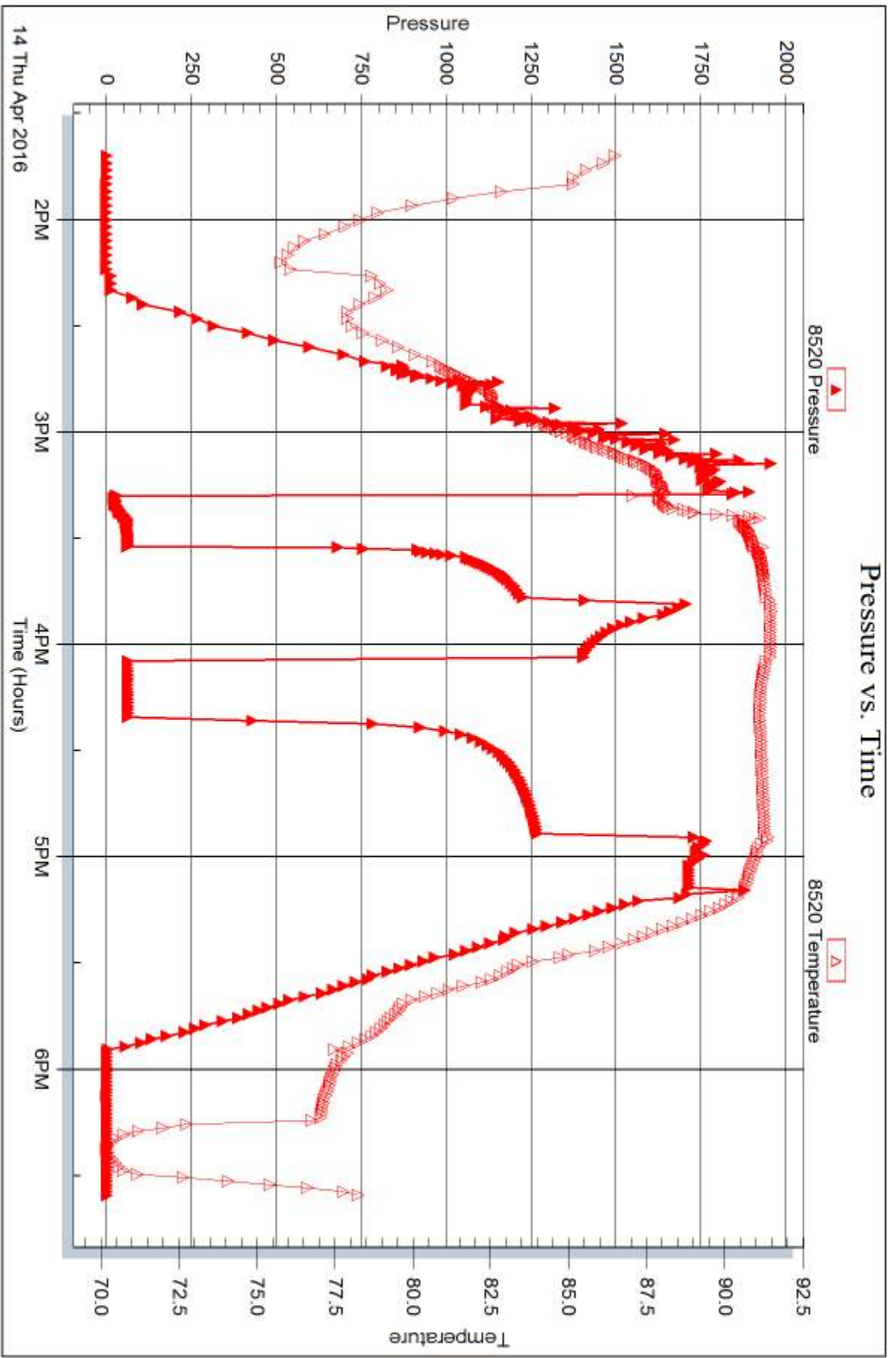
Serial #: 8520

Inside

Parie Fire Petroleum, LLC.

Dane Hansen Fnd.1-15

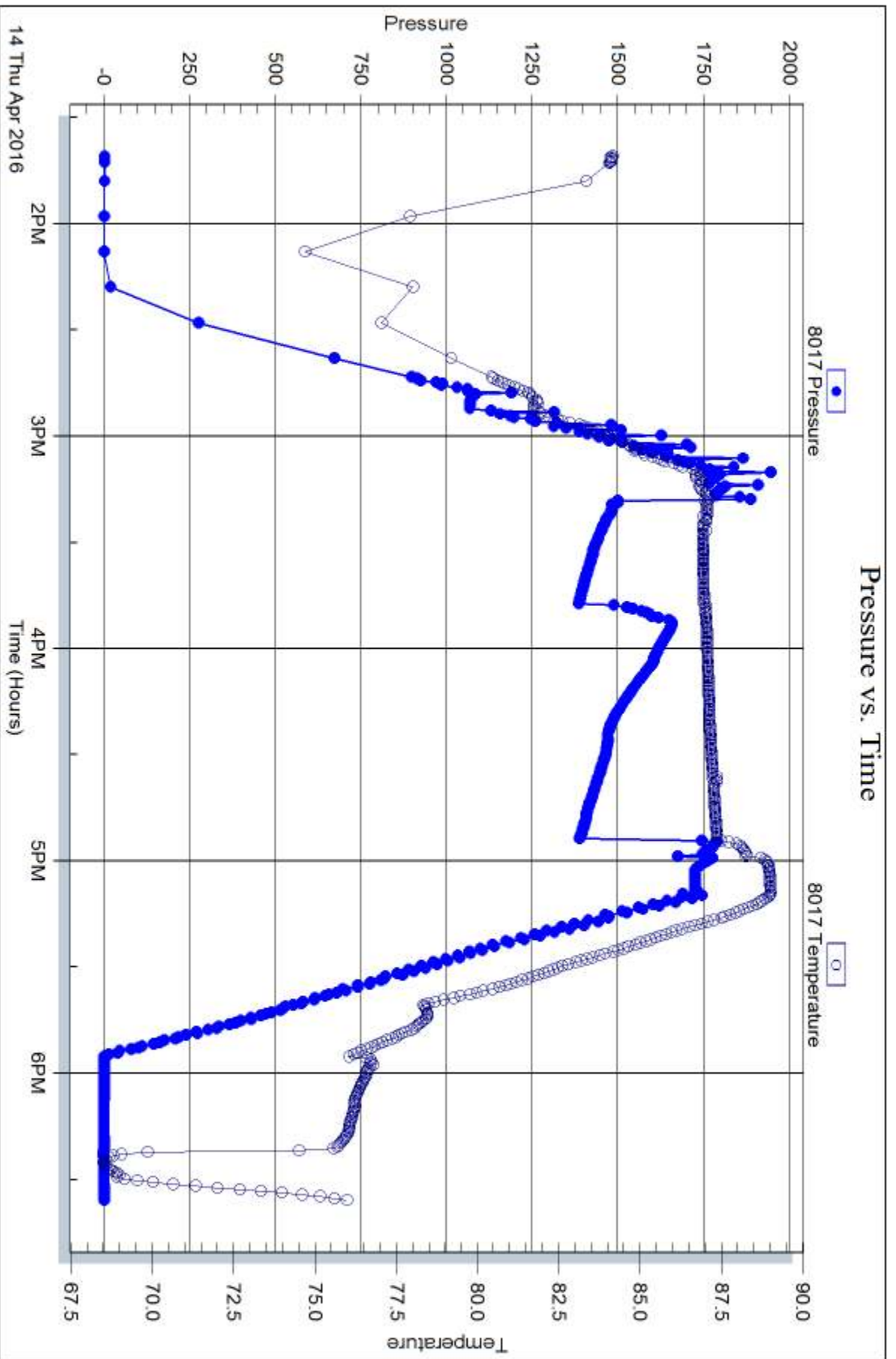
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65315

Printed: 2016.04.15 @ 09:03:51





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Prarie Fire Petroleum, LLC.

PO Box 38
Norton, KS 67654

ATTN: Kevin Bailey

Dane Hansen Fnd.1-15

Job Ticket: 65316

DST#: 4

Test Start: 2016.04.14 @ 19:03:00

GENERAL INFORMATION:

Formation: **Plattsmouth**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:27:50

Time Test Ended: 23:12:30

Test Type: Conventional Straddle (Initial)

Tester: Kevin Mack

Unit No: 82

Interval: 3410.00 ft (KB) To 3420.00 ft (KB) (TVD)

Reference Elevations: 2197.00 ft (KB)

Total Depth: 3875.00 ft (KB) (TVD)

2192.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8653 Outside

Press@RunDepth: 993.57 psig @ 3411.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.04.14

End Date:

2016.04.14

Last Calib.: 2016.04.14

Start Time: 19:04:00

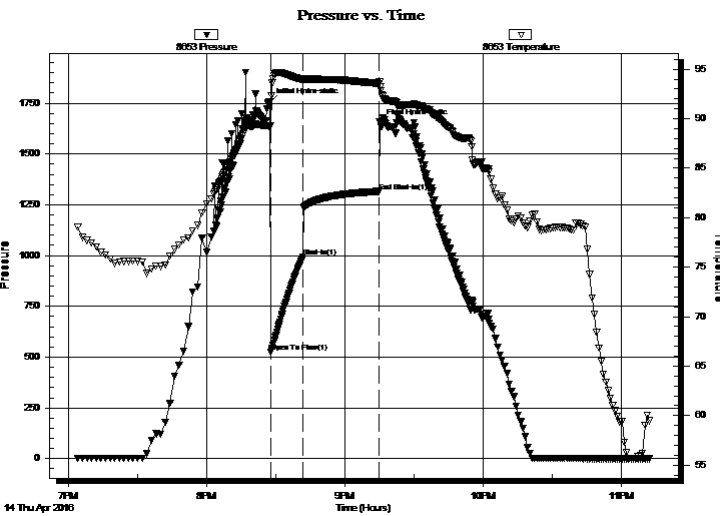
End Time:

23:12:30

Time On Btm: 2016.04.14 @ 20:27:30

Time Off Btm: 2016.04.14 @ 21:15:30

TEST COMMENT: 15 - IF- BoB in 40 sec.
30 - ISI- Weak surface Return built to 1 1/2"
Pulled tools at end of ISI period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1752.14	89.25	Initial Hydro-static
1	523.52	89.29	Open To Flow (1)
15	993.57	93.92	Shut-In(1)
48	1316.41	93.56	End Shut-In(1)
48	1651.65	93.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2020.00	MW 20% Mud 80% Water	28.34

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prarie Fire Petroleum, LLC.

PO Box 38
Norton, KS 67654

ATTN: Kevin Bailey

Dane Hansen Fnd.1-15

Job Ticket: 65316

DST#: 4

Test Start: 2016.04.14 @ 19:03:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 6.40 in³

Resistivity: 0.00 ohm.m

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

deg API

Water Salinity: 50000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2020.00	MW 20%Mud 80%Water	28.335

Total Length: 2020.00 ft Total Volume: 28.335 bbl

Num Fluid Samples: 0

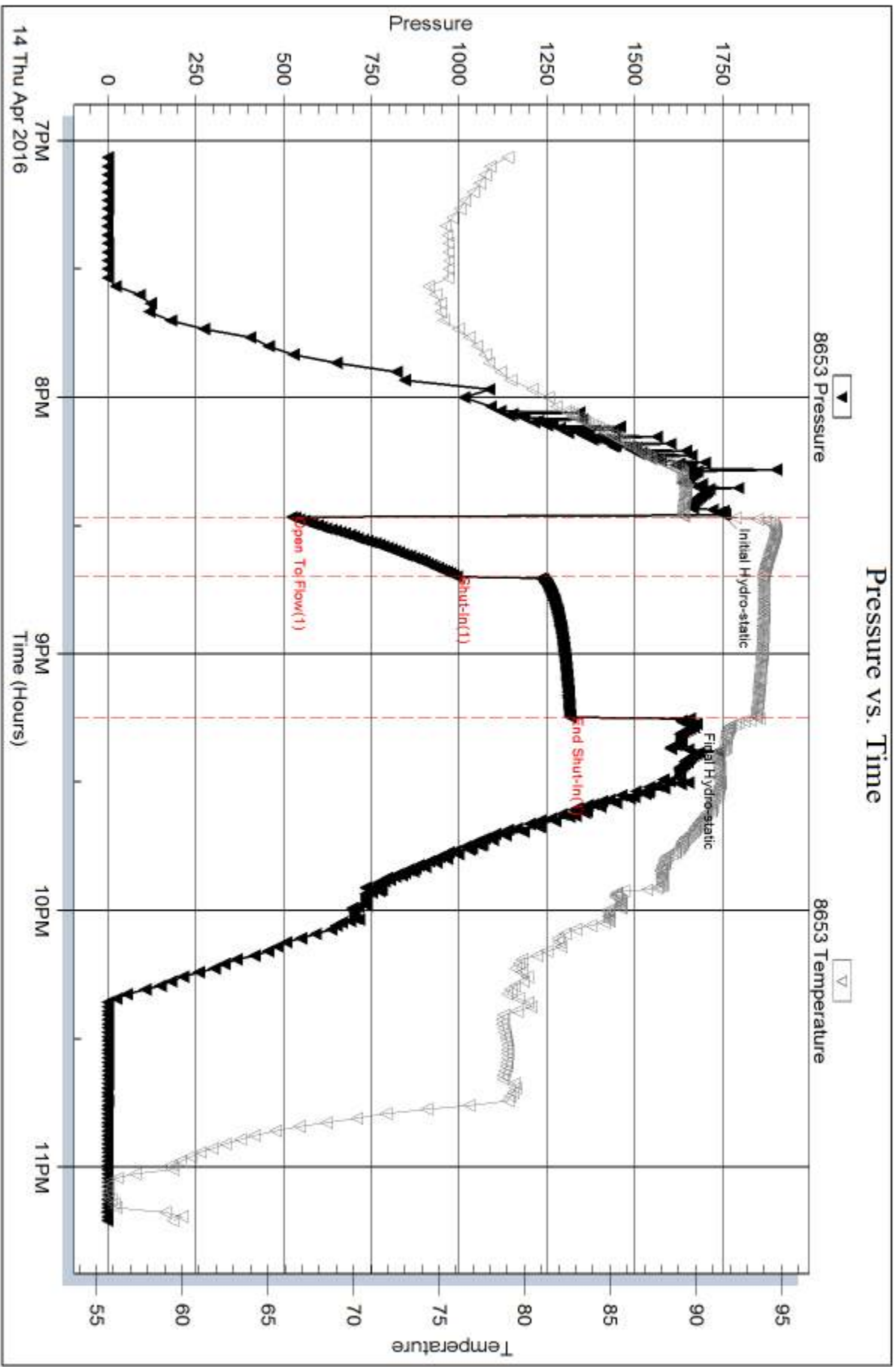
Num Gas Bombs: 0

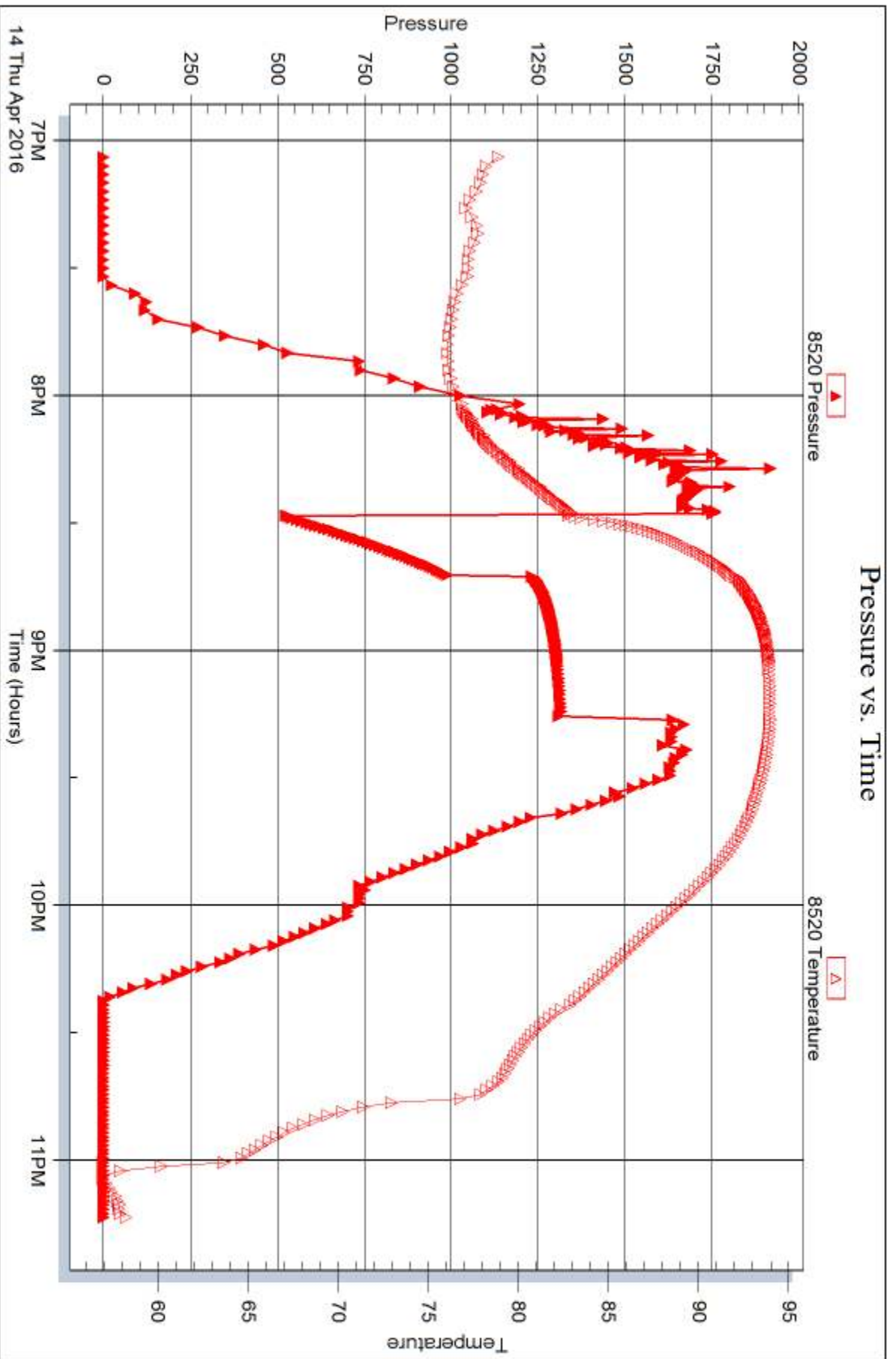
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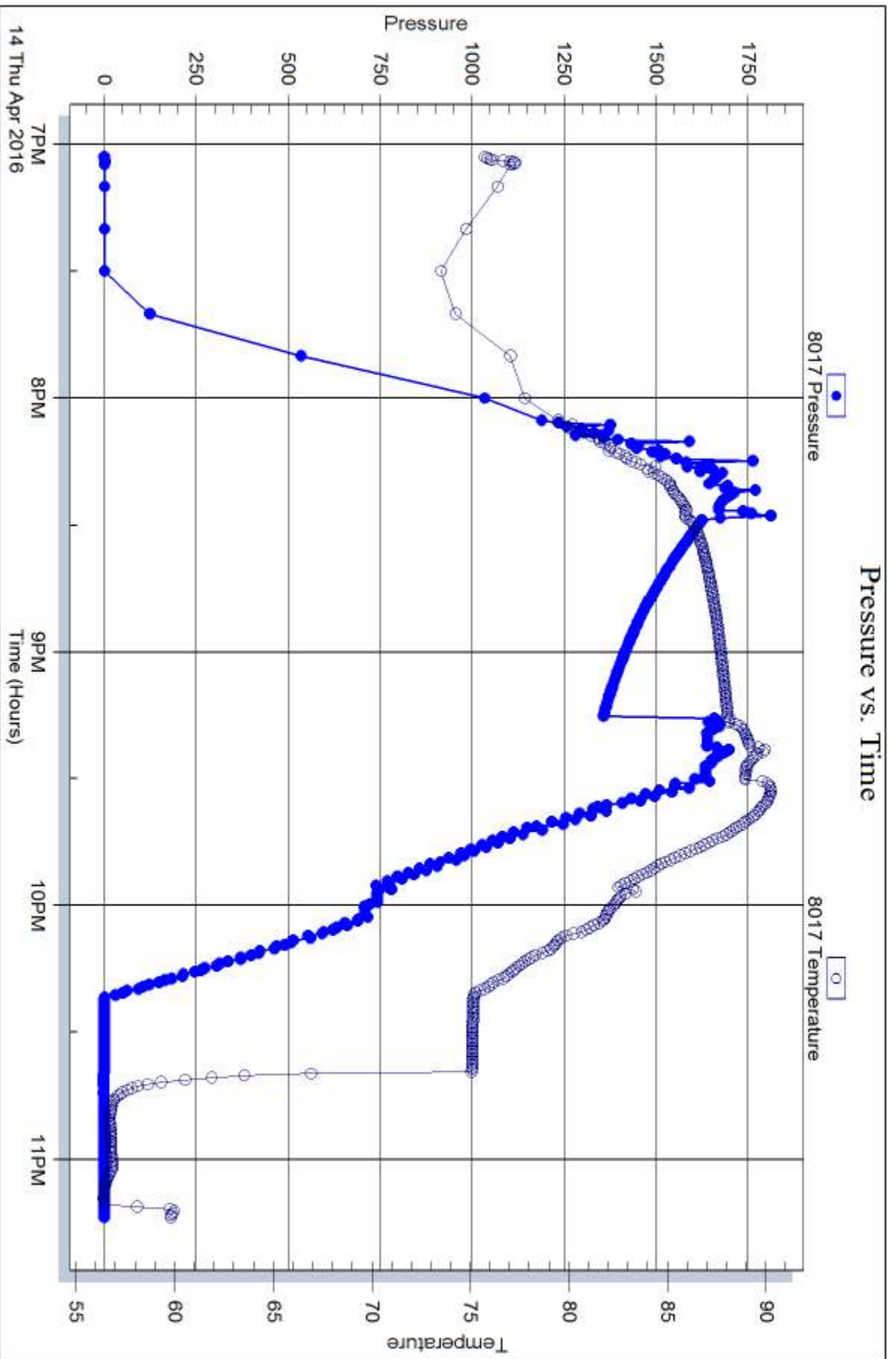
Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .15 @ 70 deg. = 50,000ppm









**BOREHOLE
COMPENSATED
SONIC
LOG**

Company Prairie Fire Petroleum, LLC.
Well Dane G. Hansen Foundation #1-15
Field Wildcat
County Norton
State KS

Company Prairie Fire Petroleum, LLC.
Well Dane G. Hansen Foundation #1-15
Field Wildcat
County Norton State KS

Location: API #: 15 137 20737
545' FNL & 2090' FWL
SEC 15 TWP 2S RGE 21W
Permanent Datum Ground Level Elevation 2192'
Log Measured From KB 5' AGL
Drilling Measured From KB
Other Services
BCS
CDNL
DIL
Elevation
K.B. 2197'
D.F. 2196'
G.L. 2192'

Date	4-13-16
Run Number	Two
Depth Driller	3875'
Depth Logger	3875'
Bottom Logged Interval	3870'
Top Log Interval	400'
Casing Driller	8 5/8" @ 220'
Casing Logger	220'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical
Density / Viscosity	9.3/53
PH / Fluid Loss	10.6/6.4
Source of Sample	Pit
Rm @ Meas. Temp	.9@60degf
Rmf @ Meas. Temp	.68@60degf
Rmc @ Meas. Temp	1.08@60degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	.58@92degf
Time Circulation Stopped	3:45 a.m.
Time Logger on Bottom	7:45 a.m.
Maximum Recorded Temperature	92degf
Equipment Number	T127
Location	Hays, KS
Recorded By	Gus Pfanenstiel
Witnessed By	Mr. Kevin Bailey

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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

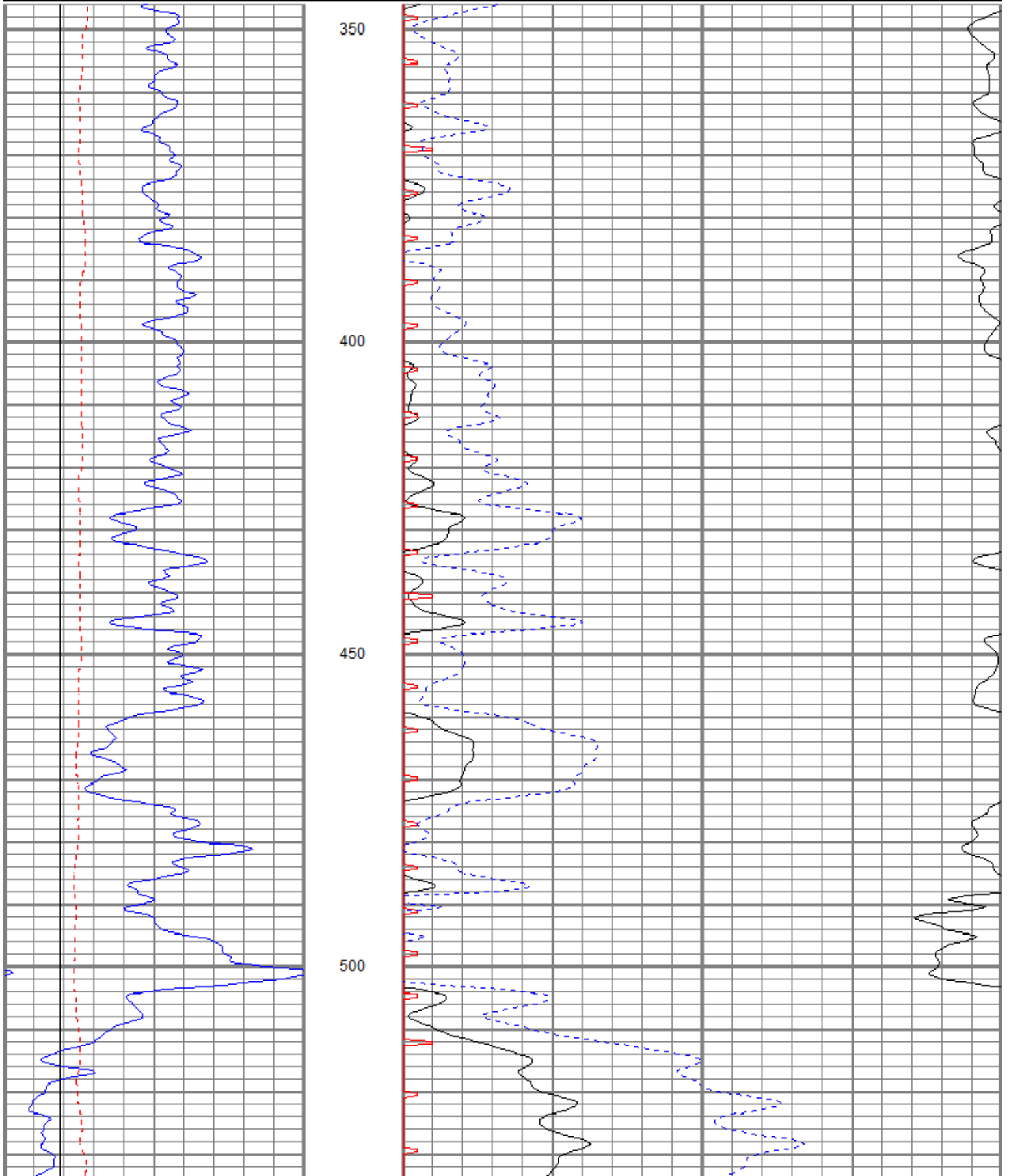
West out of Phillipsburg to 12 Rd.
North to I Rd. West 1/2 mile,
South into.

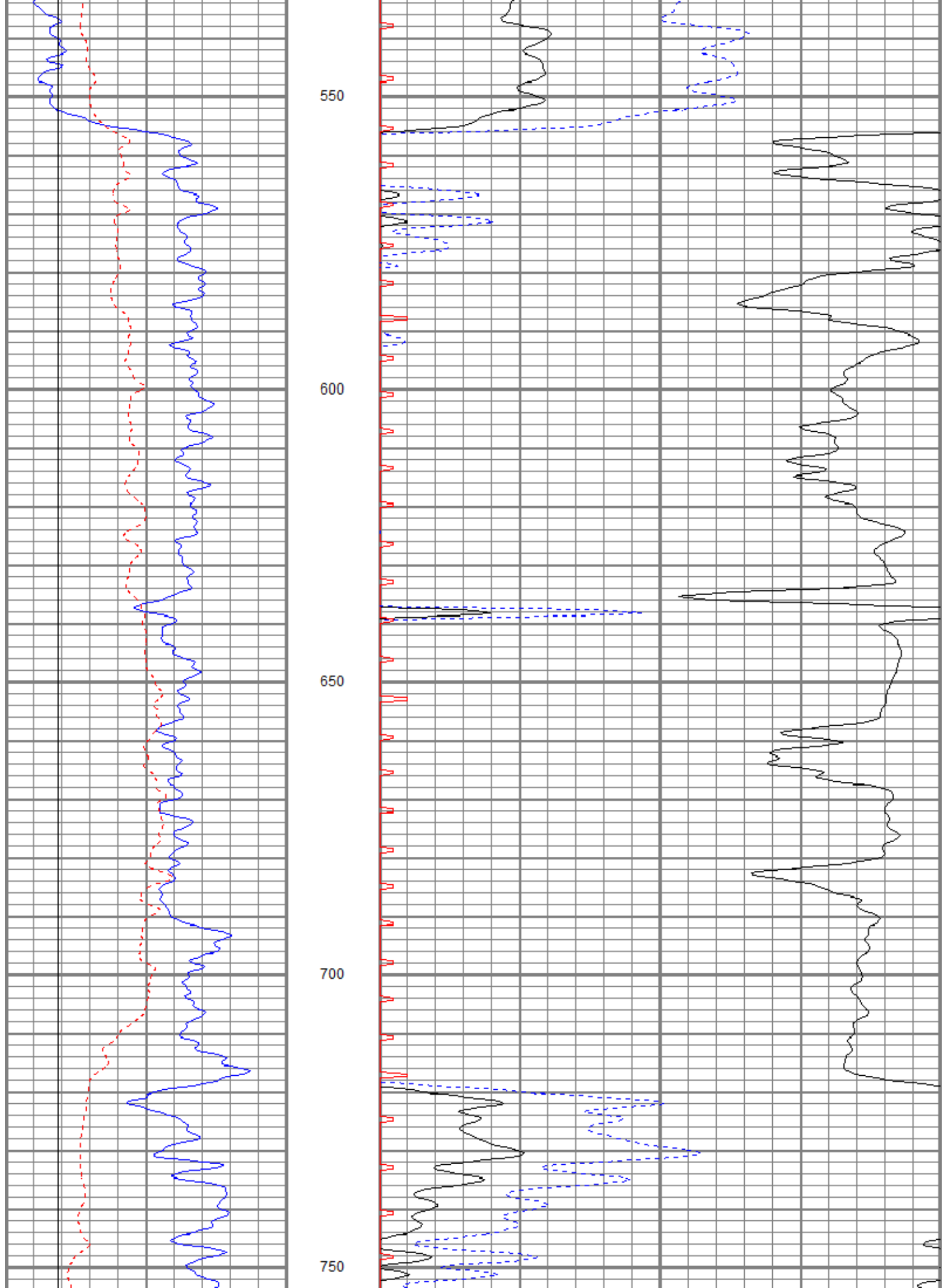


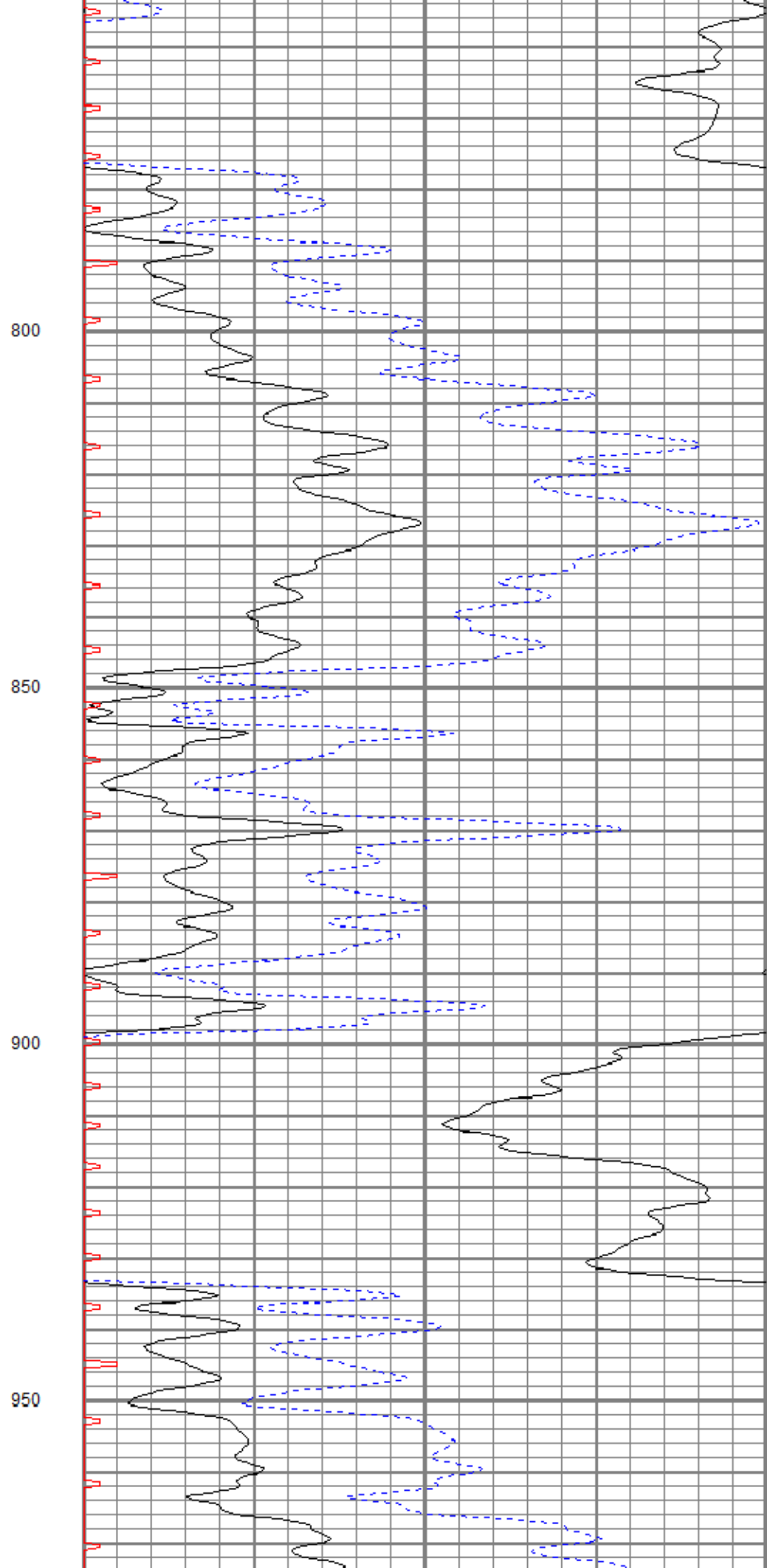
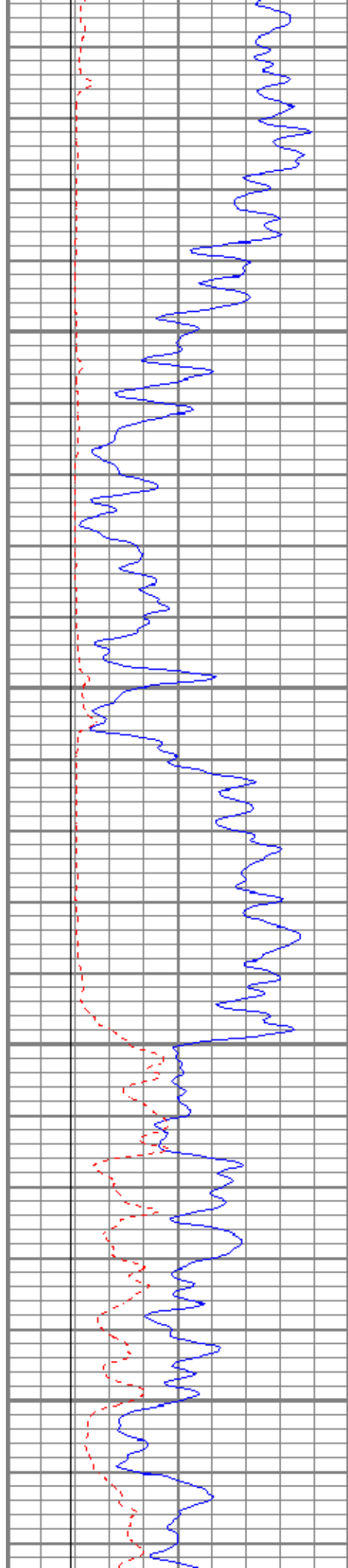
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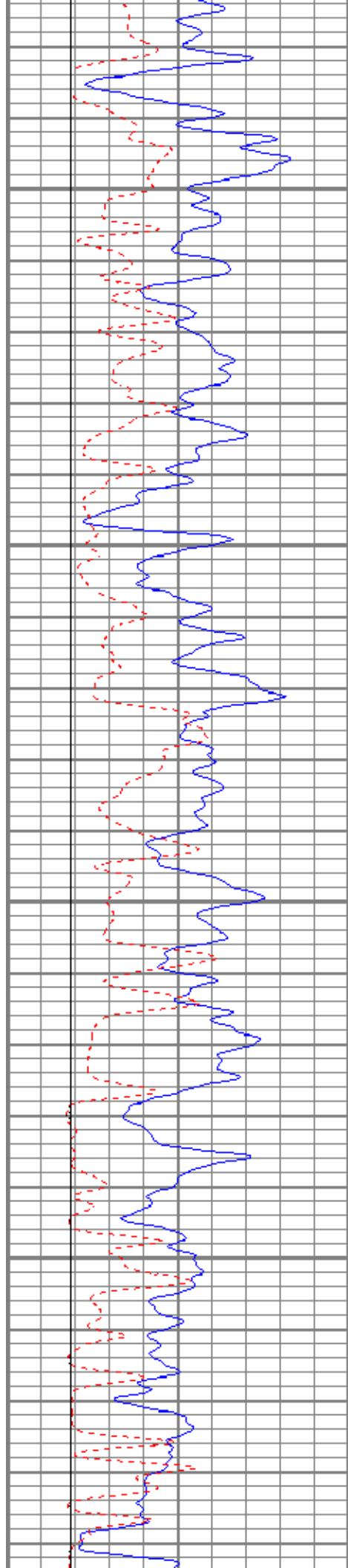
Database File pfdaneghansenfoundation#1-15oh.db
 Dataset Pathname pass4
 Presentation Format kbcs
 Dataset Creation Wed Apr 13 08:45:45 2016
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150	140	DT (usec/ft)	40
6	MCAL (in)	16	30	SPOR (pu)	-10
6	BOREID (in)	16	0	ITT (msec)	20







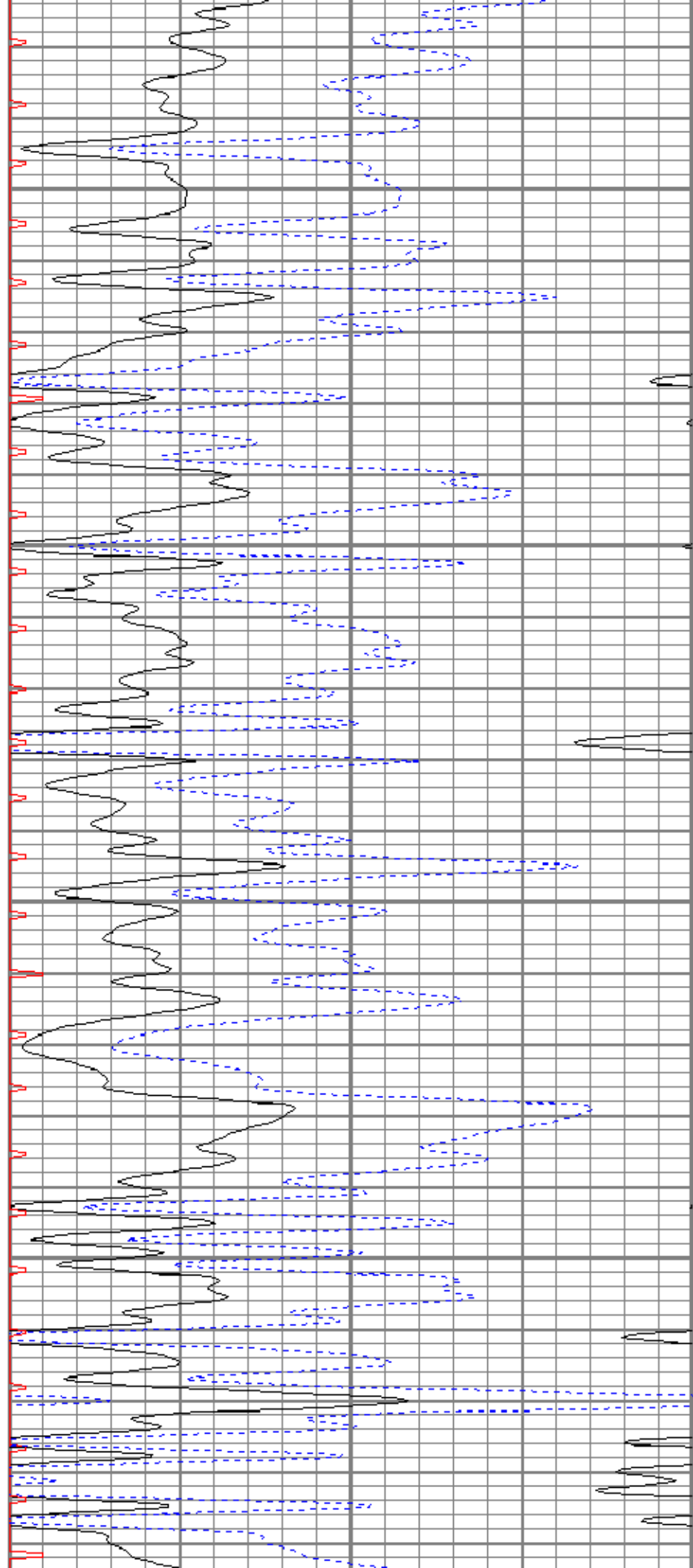


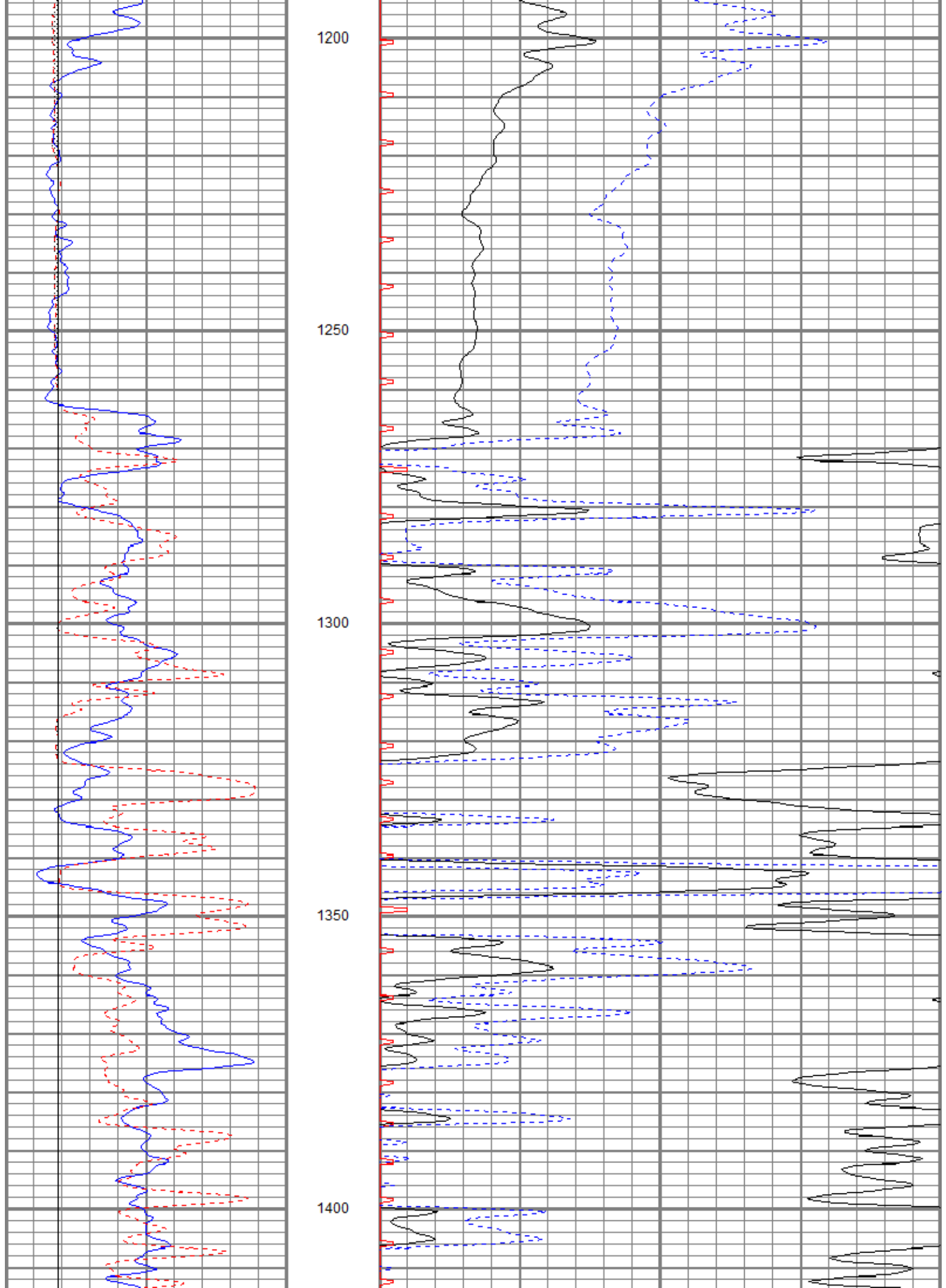
1000

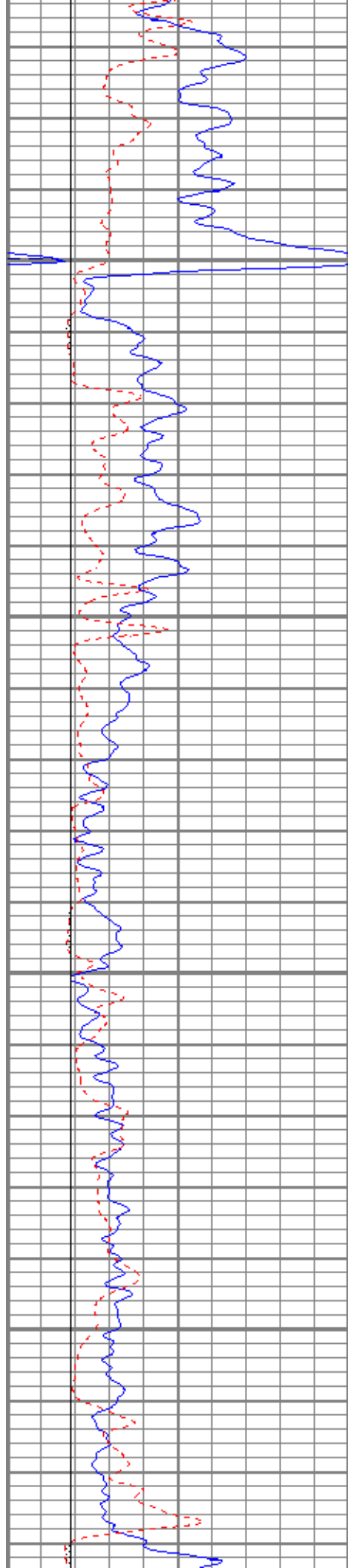
1050

1100

1150





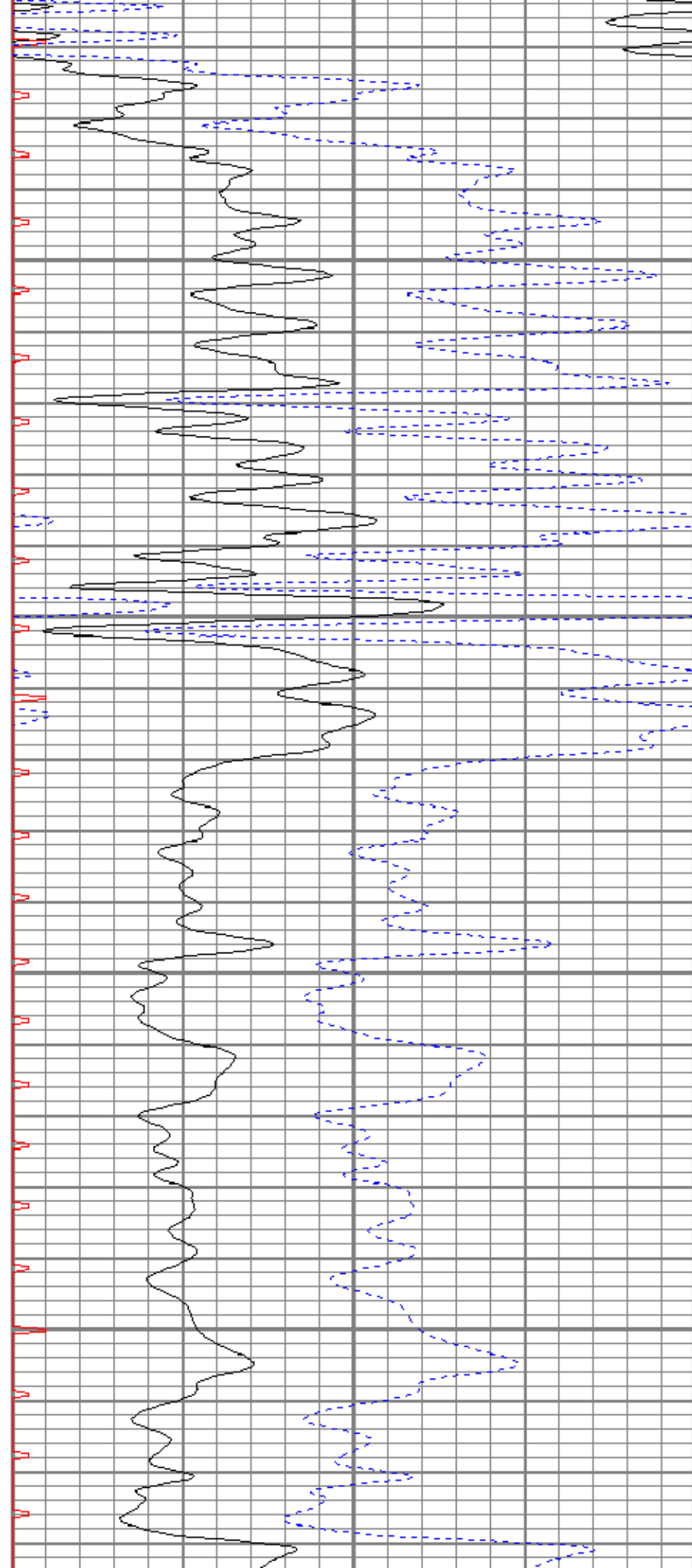


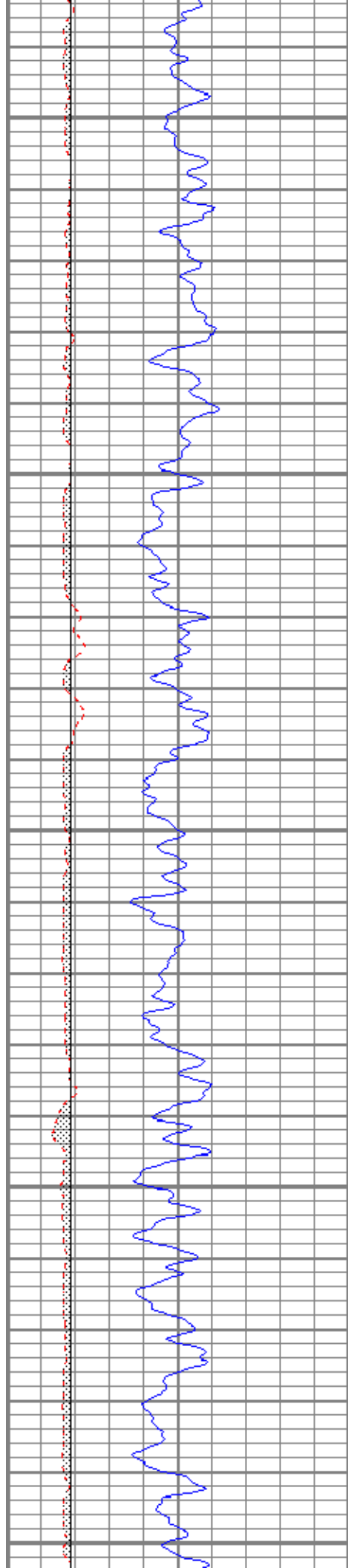
1450

1500

1550

1600





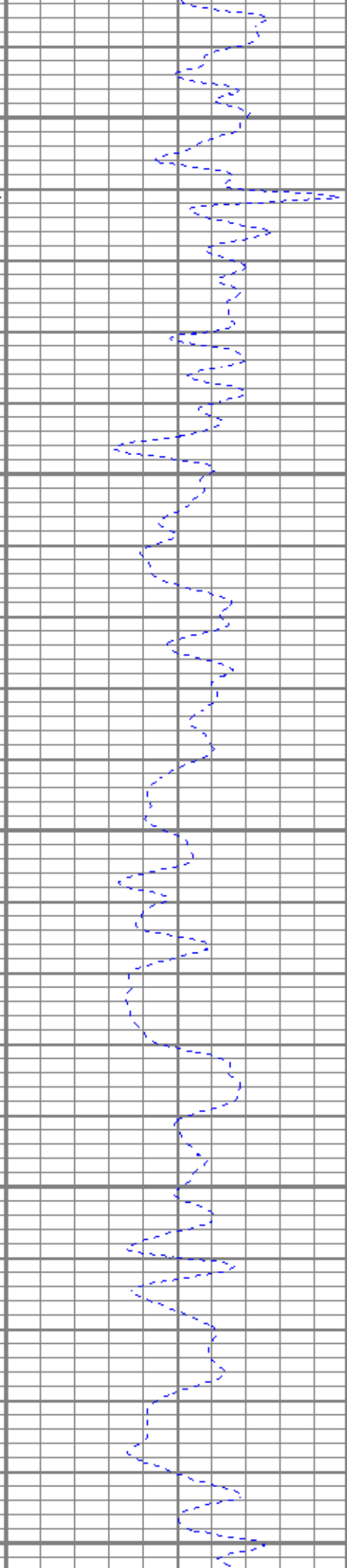
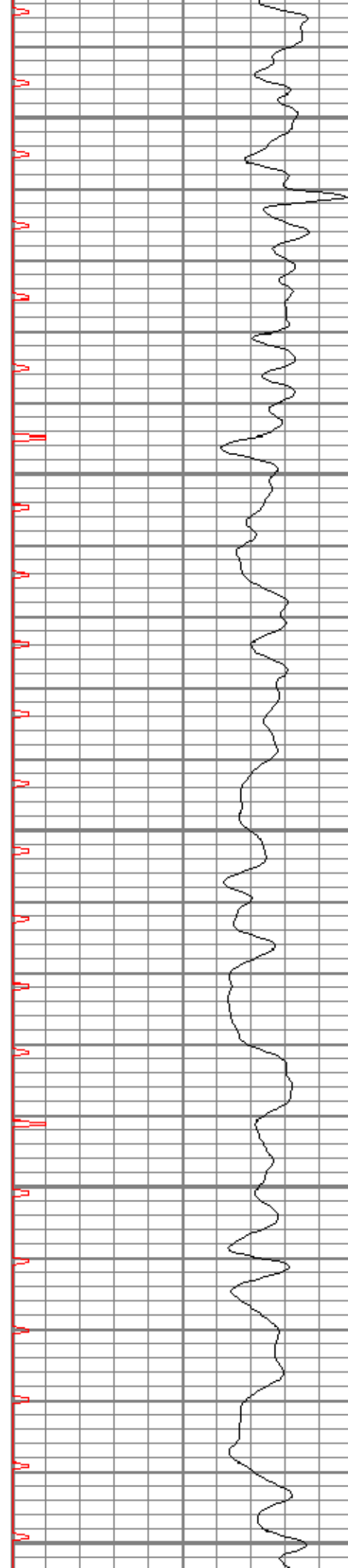
1650

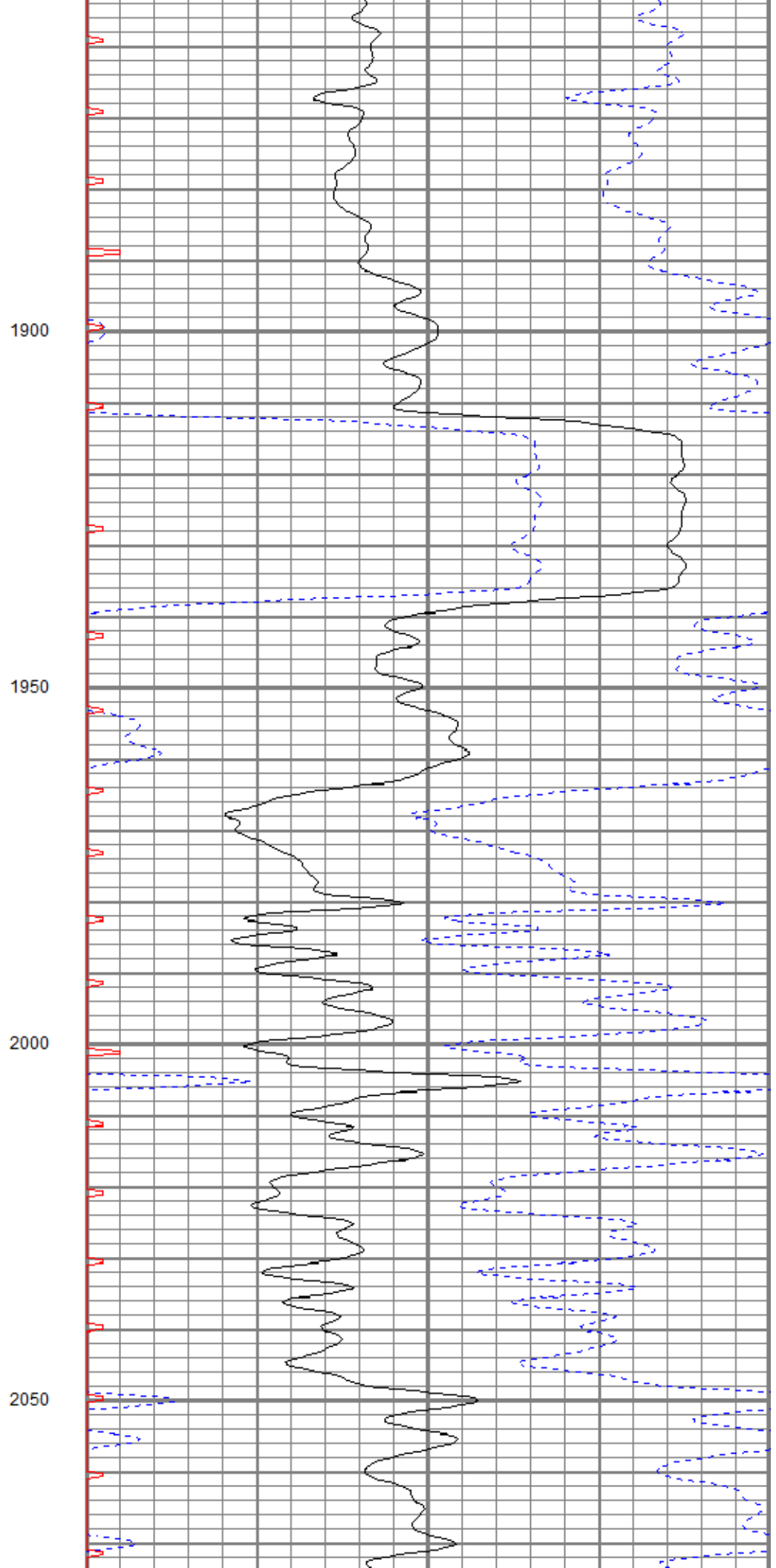
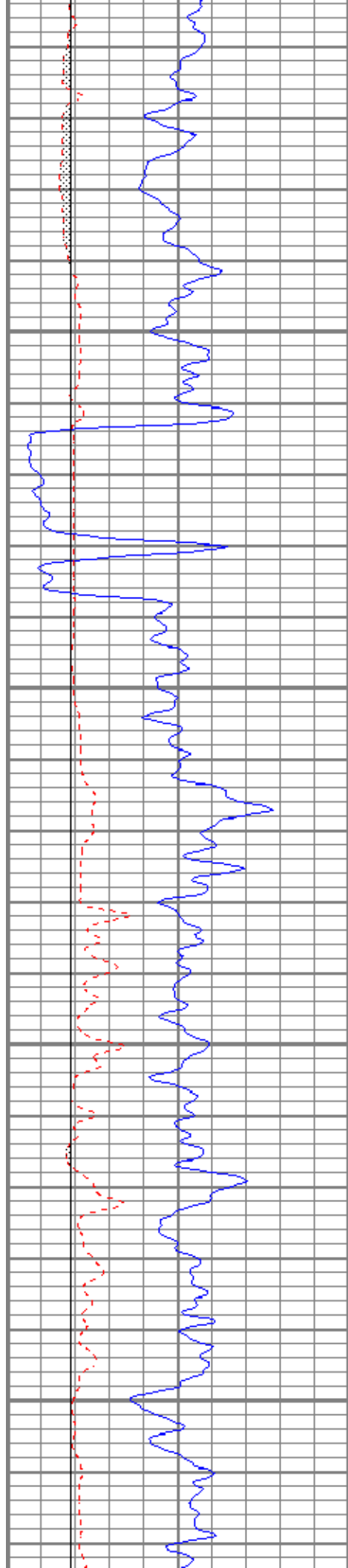
1700

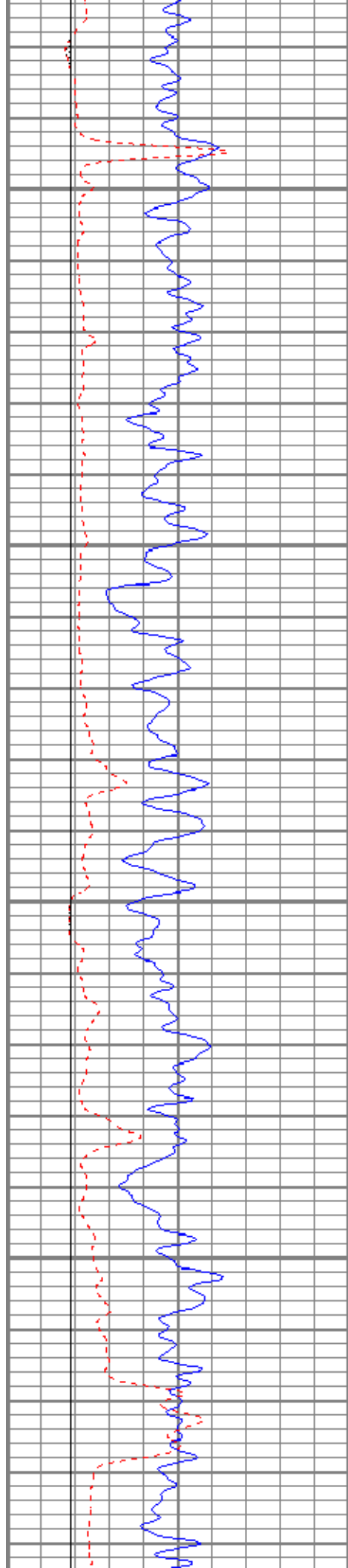
1750

1800

1850





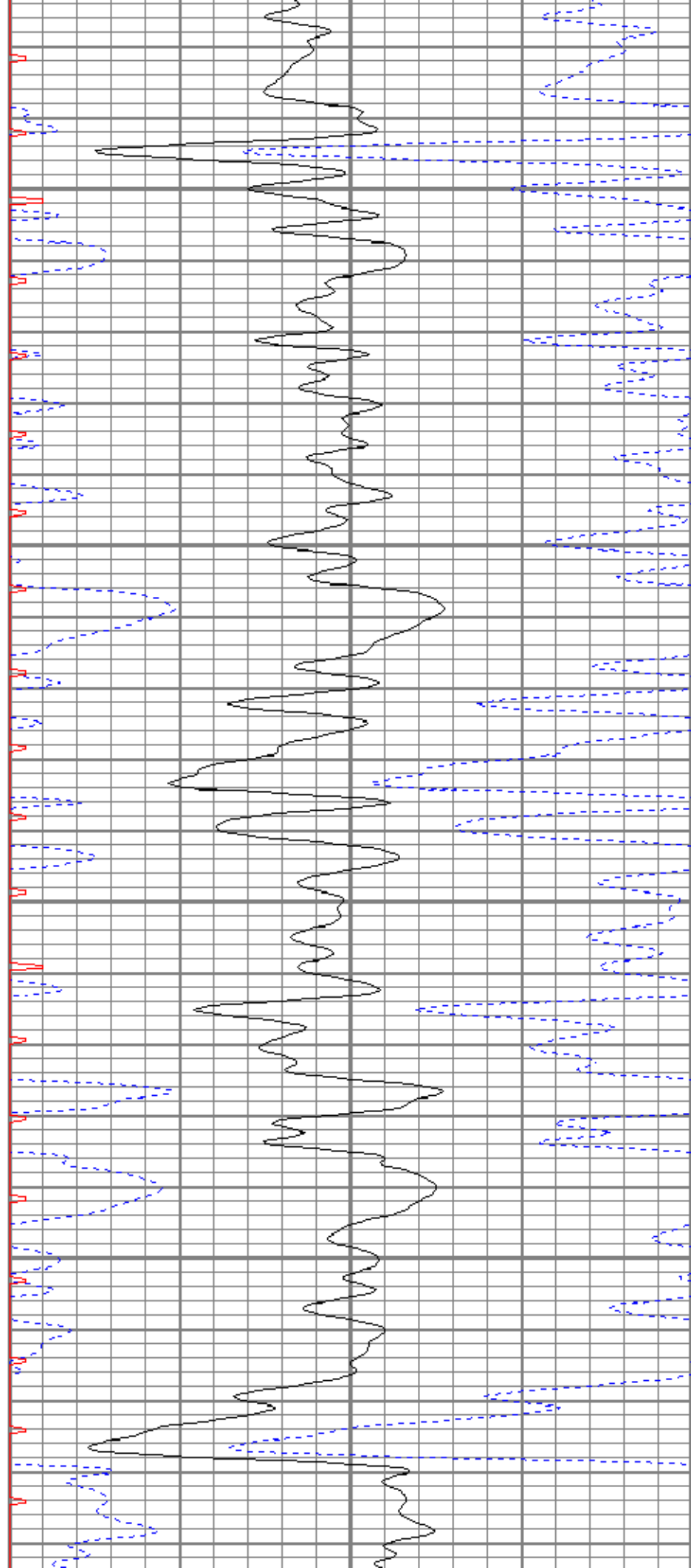


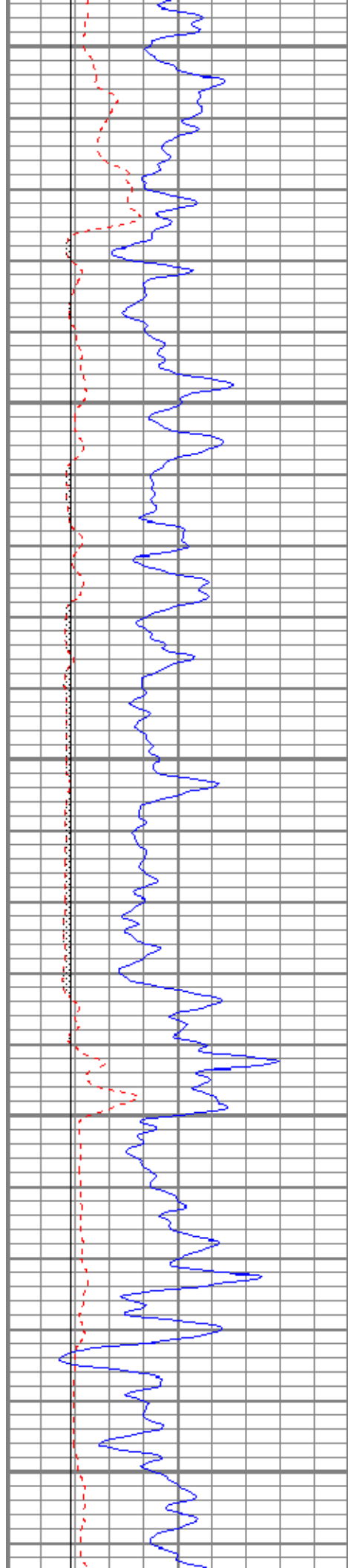
2100

2150

2200

2250





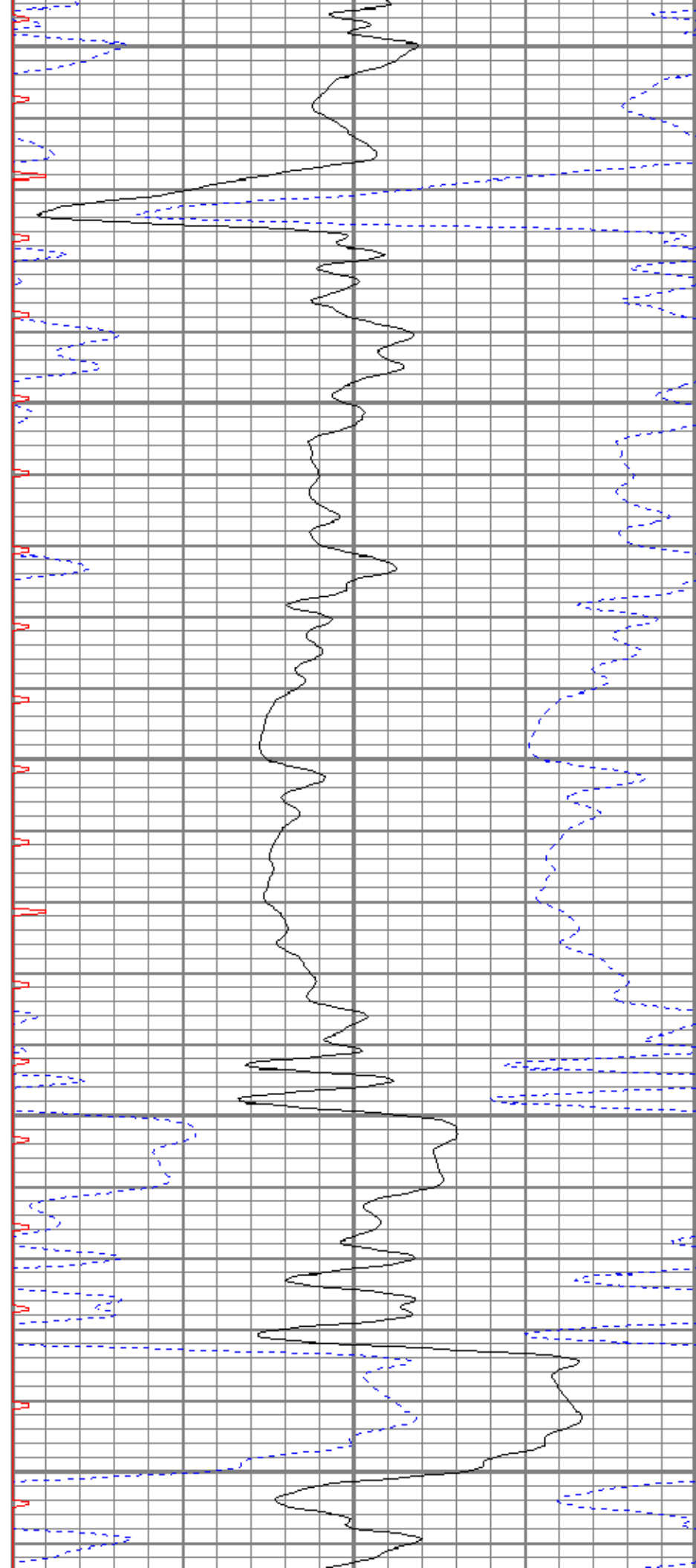
2300

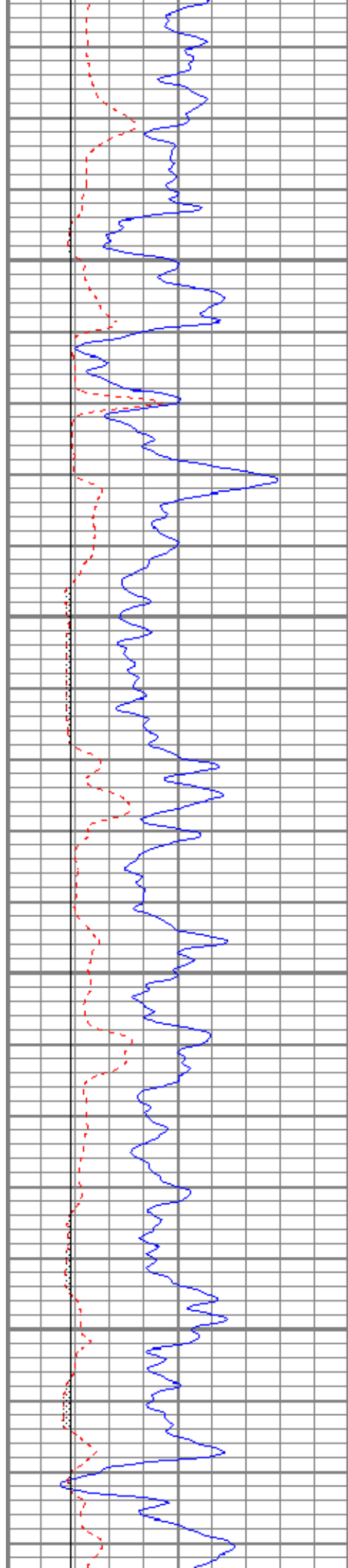
2350

2400

2450

2500



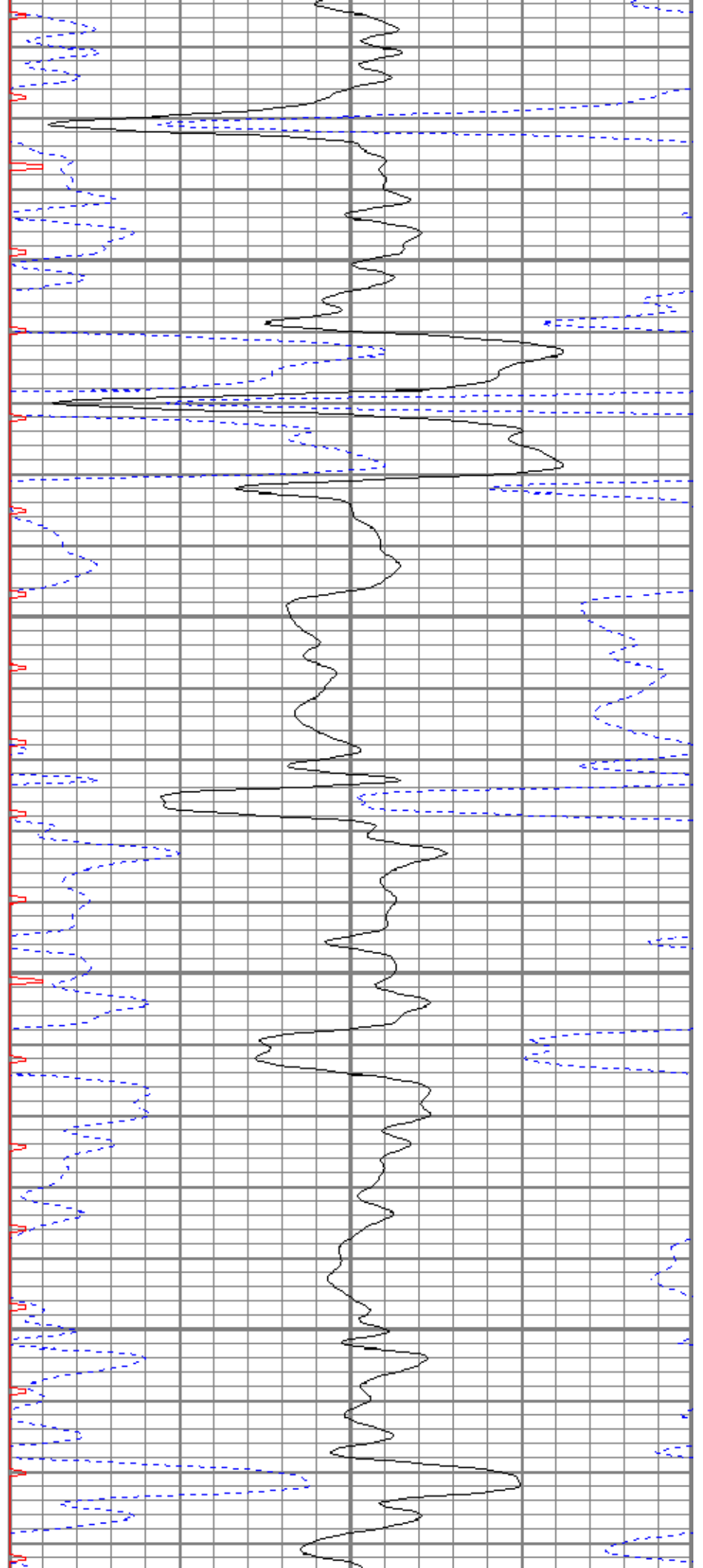


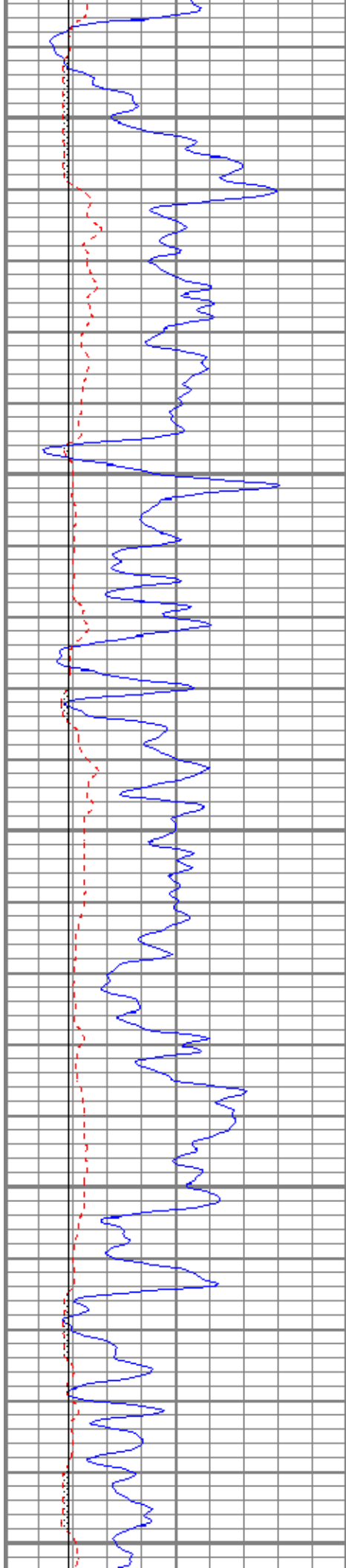
2550

2600

2650

2700





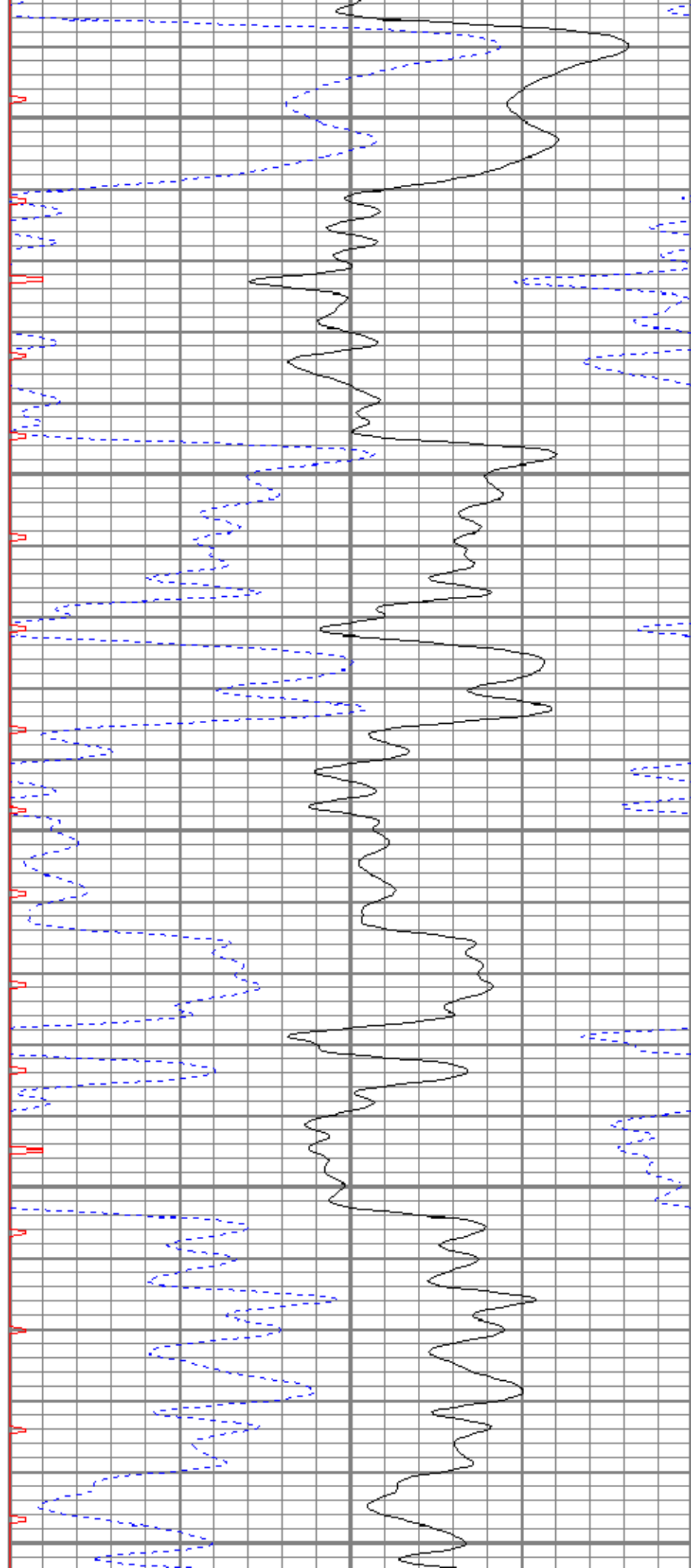
2750

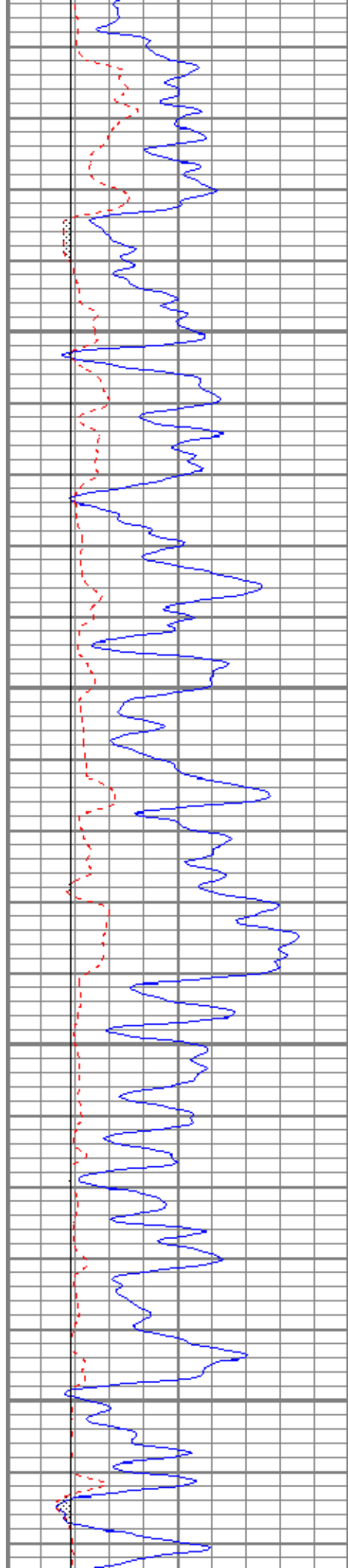
2800

2850

2900

2950



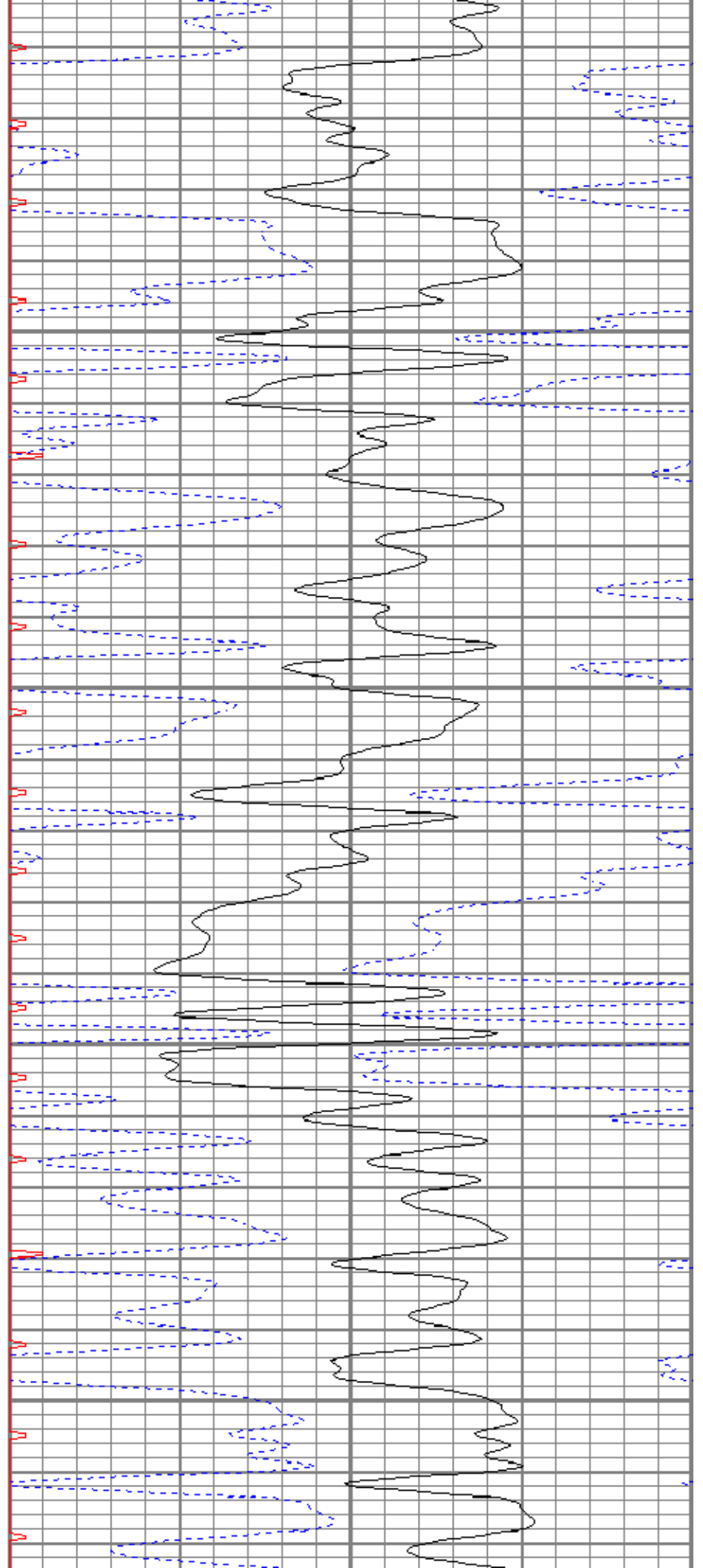


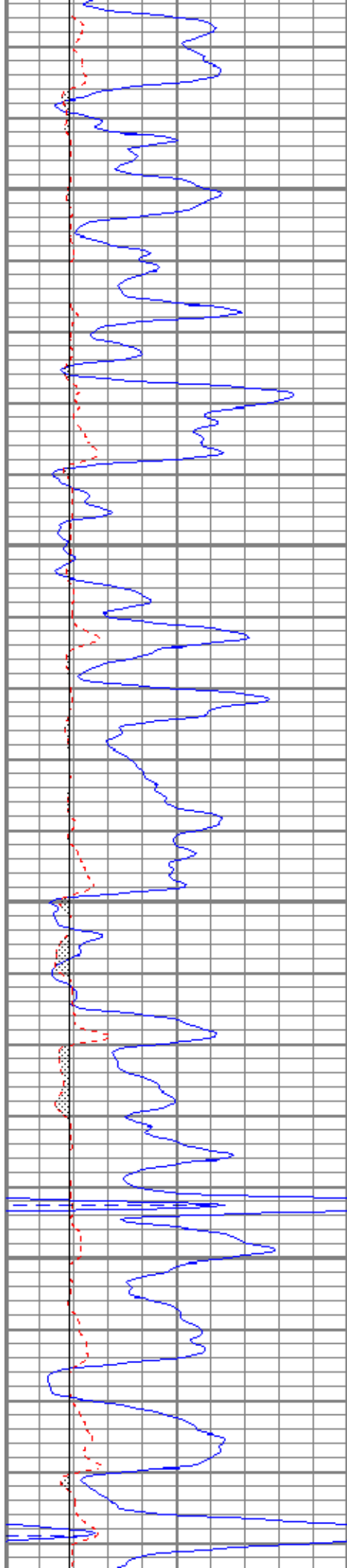
3000

3050

3100

3150



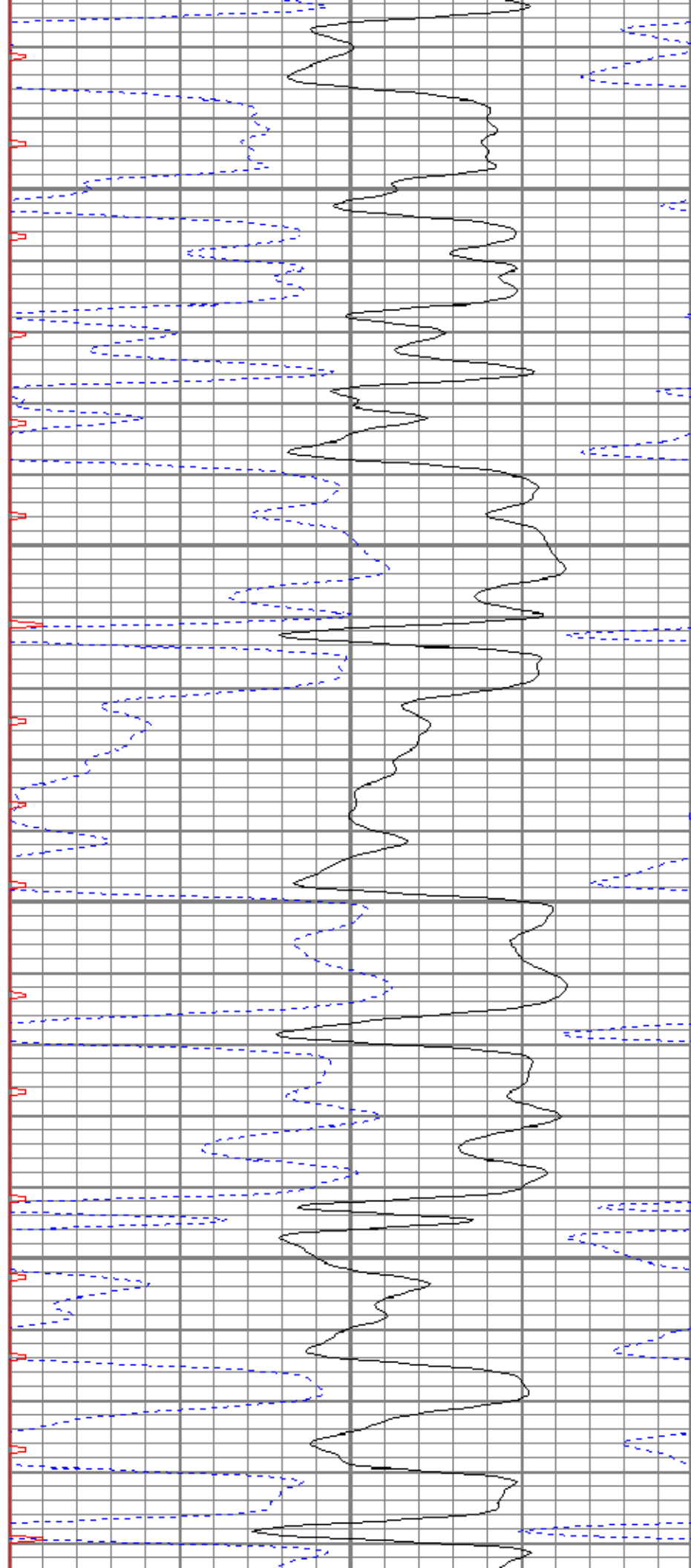


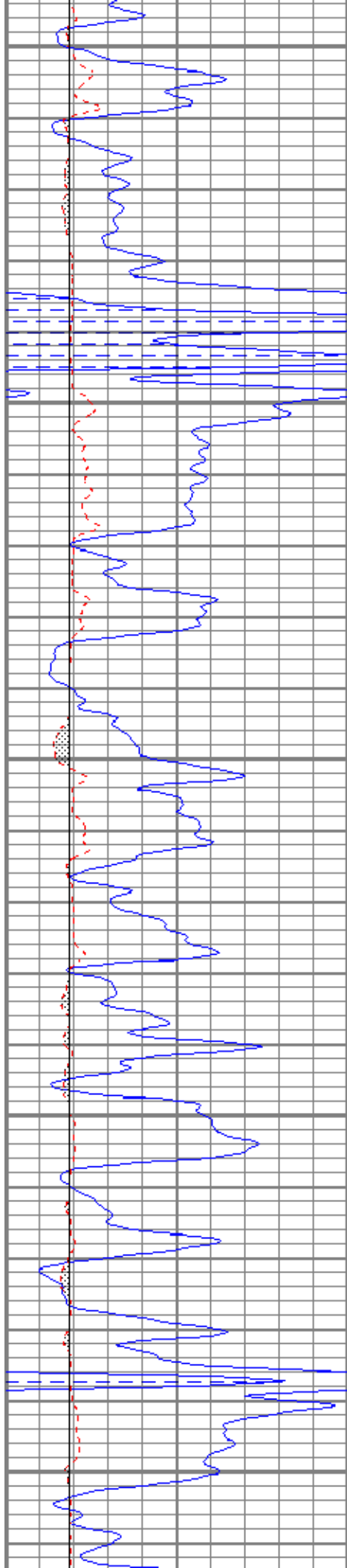
3200

3250

3300

3350





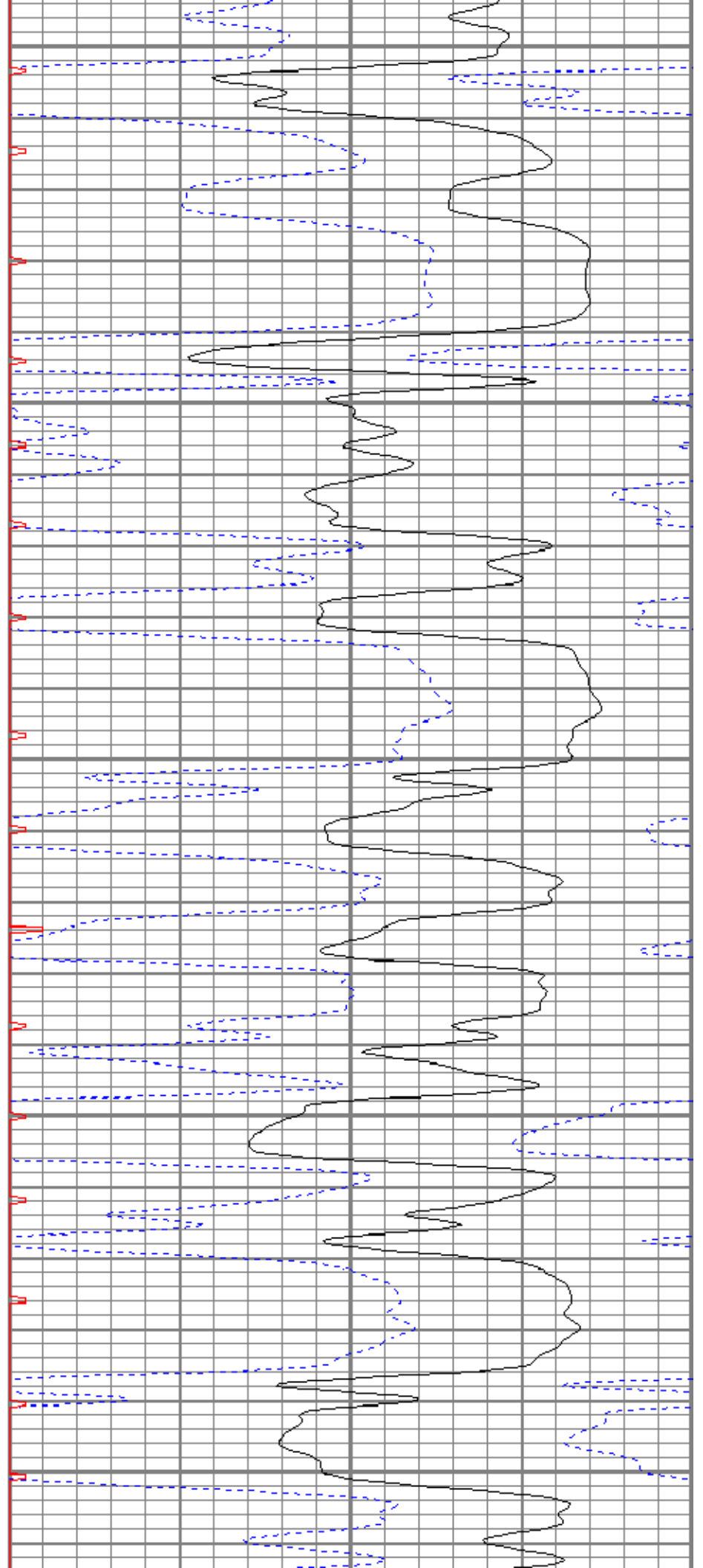
3400

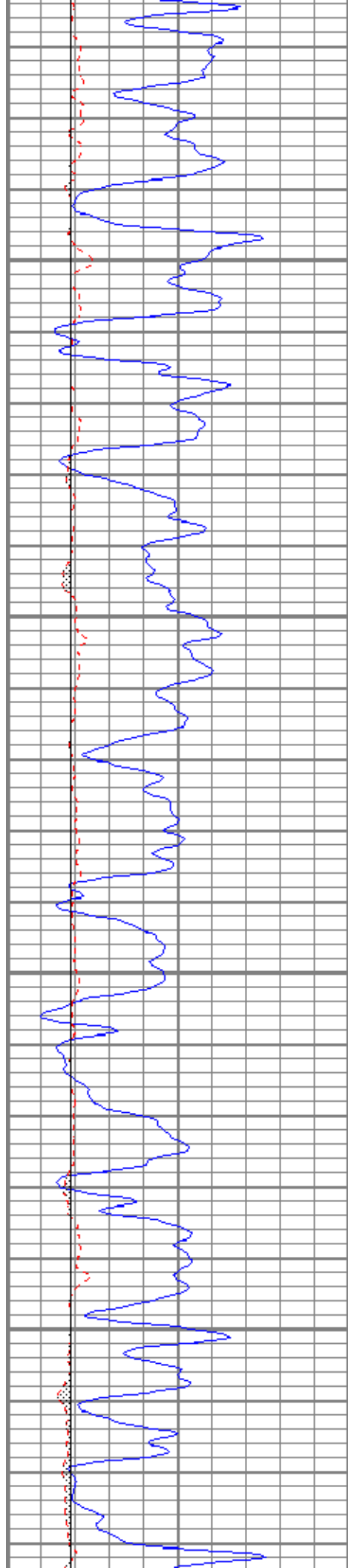
3450

3500

3550

3600



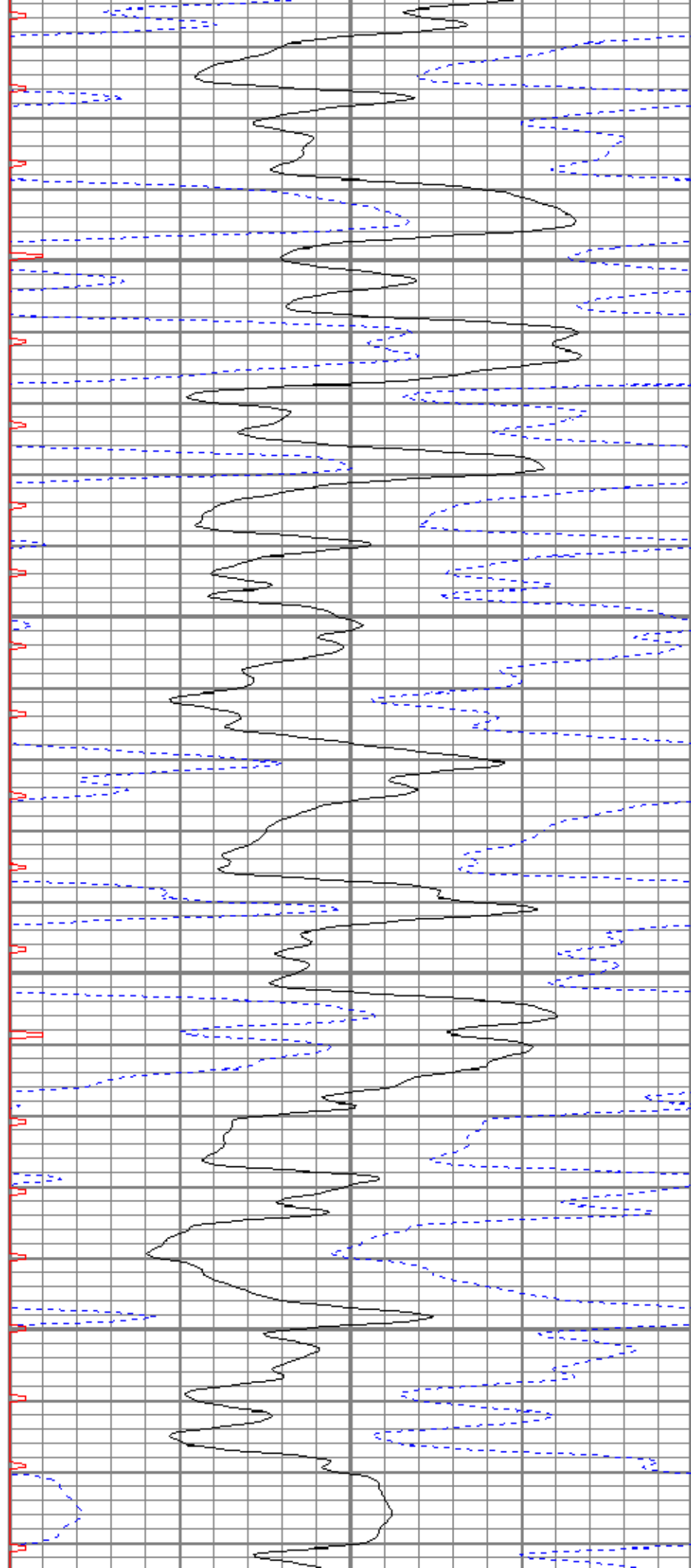


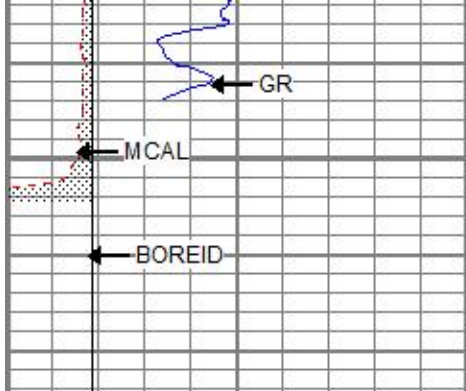
3650

3700

3750

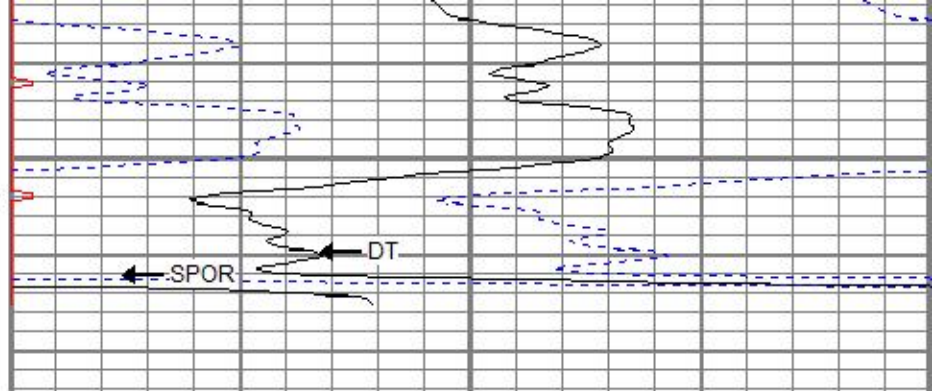
3800





3850

ITT →



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

140	DT (usec/ft)	40
30	SPOR (pu)	-10
0	ITT (msec)	20

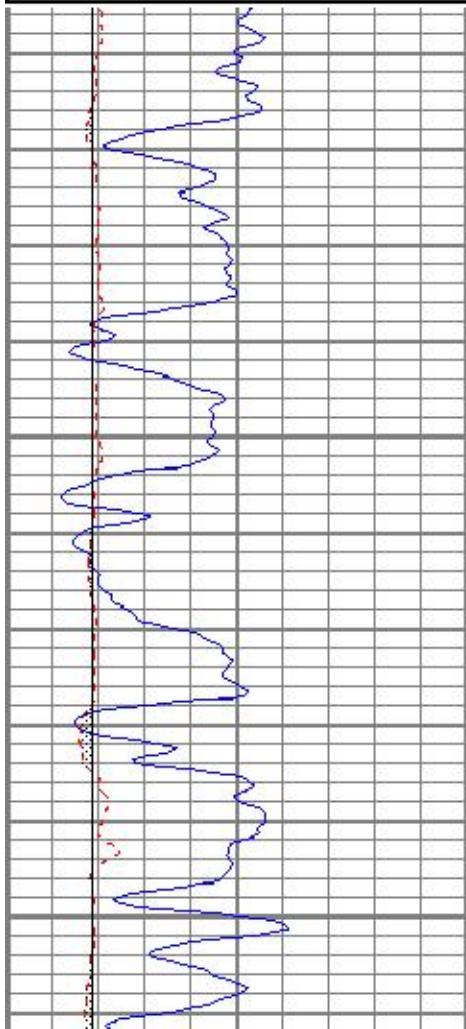


Repeat Pass

Database File pfdaneghansenfoundation#1-15oh.db
 Dataset Pathname pass3
 Presentation Format kbcs
 Dataset Creation Wed Apr 13 08:14:39 2016
 Charted by Depth in Feet scaled 1:240

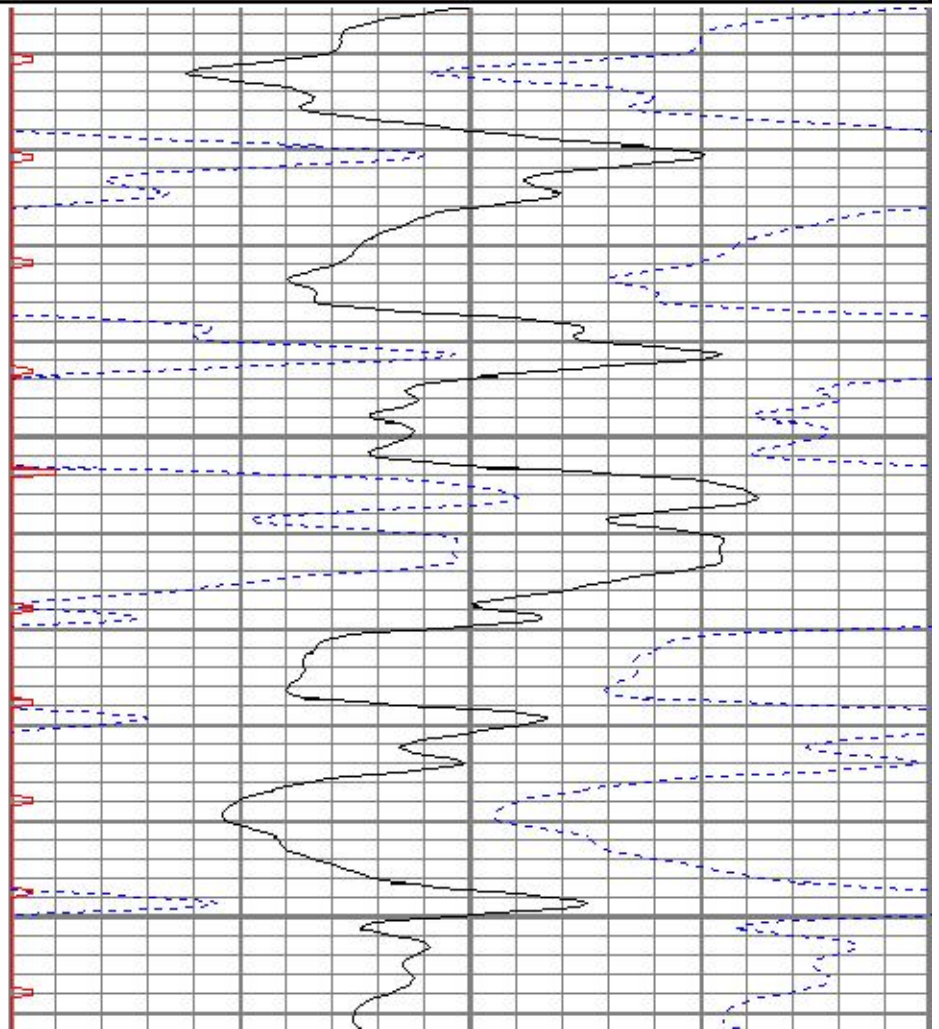
0	GR (GAPI)	150
6	MCAL (in)	16
6	BOREID (in)	16

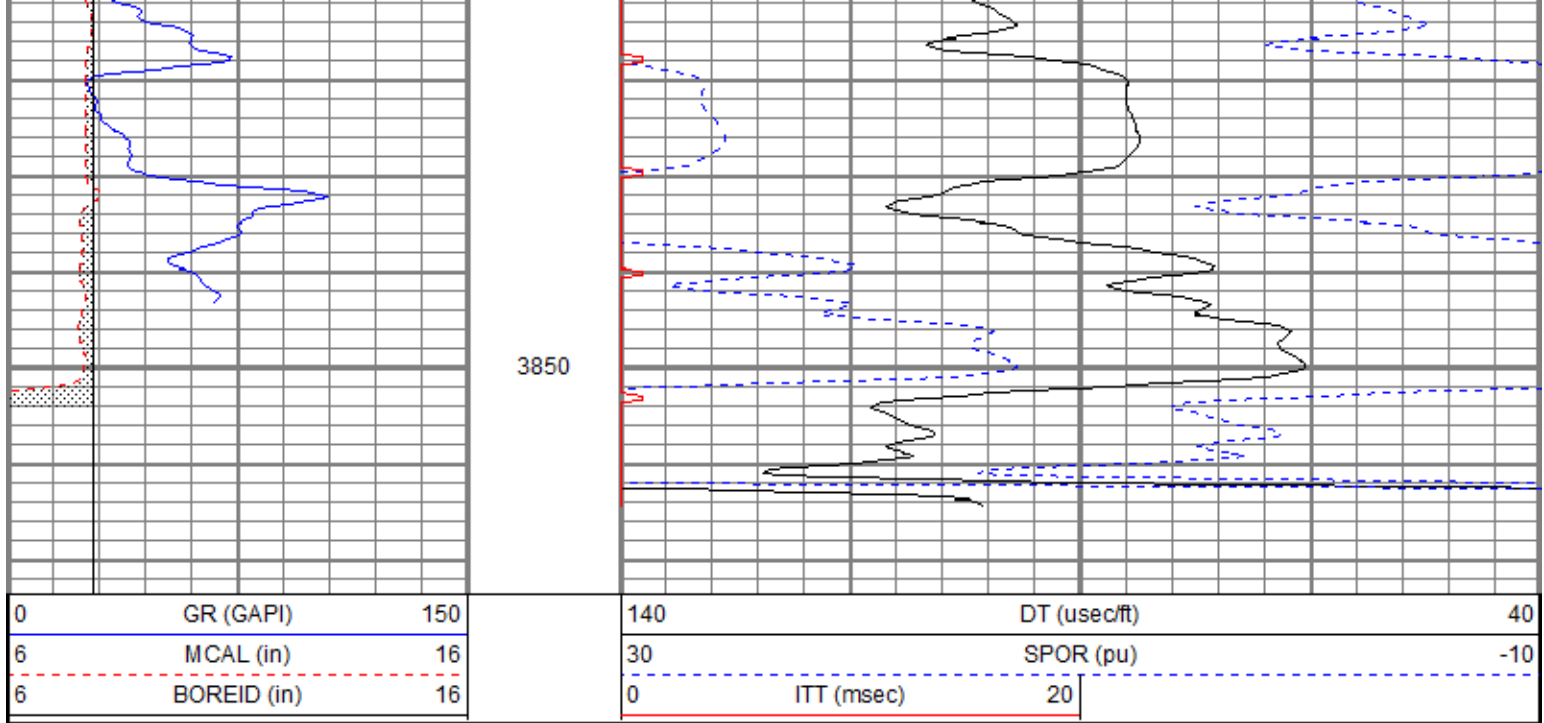
140	DT (usec/ft)	40
30	SPOR (pu)	-10
0	ITT (msec)	20



3750

3800





Calibration Report

Database File pfdaneghansenfoundation#1-15oh.db
 Dataset Pathname pass3
 Dataset Creation Wed Apr 13 08:14:39 2016

Microlog Calibration Report

Serial-Model: 1600-Pengo
 Performed: Fri Mar 18 11:00:13 2016

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	0.0009	0.5911	V	0.0000	10.0000	Ohm-m	16.9426	-0.0146
Inverse	0.0037	0.7678	V	0.0000	7.0000	Ohm-m	9.1608	-0.0339
Caliper	1.4734	4.3558	V	6.7000	12.0000	in	1.8387	3.9908

Gamma Ray Calibration Report

Serial Number: 2001
 Tool Model: OH
 Performed: Thu Jan 21 09:36:03 2016

Calibrator Value: 1.0 GAPI
 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.2400 GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	27.88		GR-OH (2001) 2001	3.56	3.25	40.00
MCAL MI	21.05 21.05		ML-Pengo (1600)	6.97	3.50	100.00

MN	21.05						
WVF4	13.79						
WVF3	12.79						
				SLT-G (101127) Sonic	15.71	3.50	250.00
WVF2	9.79						
WVF1	8.79						
				CENT-OHshort Open Hole short centralizer	4.04	3.50	50.00

Dataset: pfdaneghansenfoundation#1-15oh.db: field/well/run1/pass3
 Total length: 30.28 ft
 Total weight: 440.00 lb
 O.D.: 3.50 in



**DUAL
INDUCTION
LOG**

Company Prairie Fire Petroleum, LLC.

Well Dane G. Hansen Foundation #1-15

Field Wildcat

County Norton

State KS

Location: API #: 15 137 20737

545' FNL & 2090' FWL

SEC 15 TWP 2S RGE 21W

Permanent Datum Ground Level Elevation 2192'
 Log Measured From KB 5' AGL
 Drilling Measured From KB

Other Services
 BCS
 CDNL
 ML
 Elevation

Company Prairie Fire Petroleum, LLC.
Well Dane G. Hansen Foundation #1-15
Field Wildcat
County Norton
State KS

Date	4-13-16
Run Number	One
Depth Driller	3875'
Depth Logger	3875'
Bottom Logged Interval	3873'
Top Log Interval	200'
Casing Driller	8 5/8" @ 220'
Casing Logger	220'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical
Density / Viscosity	9.3/53
PH / Fluid Loss	10.6/6.4
Source of Sample	Pit
Rm @ Meas. Temp	.9@60degf
Rmf @ Meas. Temp	.68@60degf
Rmc @ Meas. Temp	1.08@60degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	.58@92degf
Time Circulation Stopped	3:45 a.m.
Time Logger on Bottom	6:30 a.m.
Maximum Recorded Temperature	92degf
Equipment Number	T127
Location	Hays, KS
Recorded By	Gus Pfanenstiel
Witnessed By	Mr. Kevin Bailey

<<< Fold Here >>>

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

West out of Phillipsburg to 12 Rd.
 North to I Rd. West 1/2 mile,
 South into.



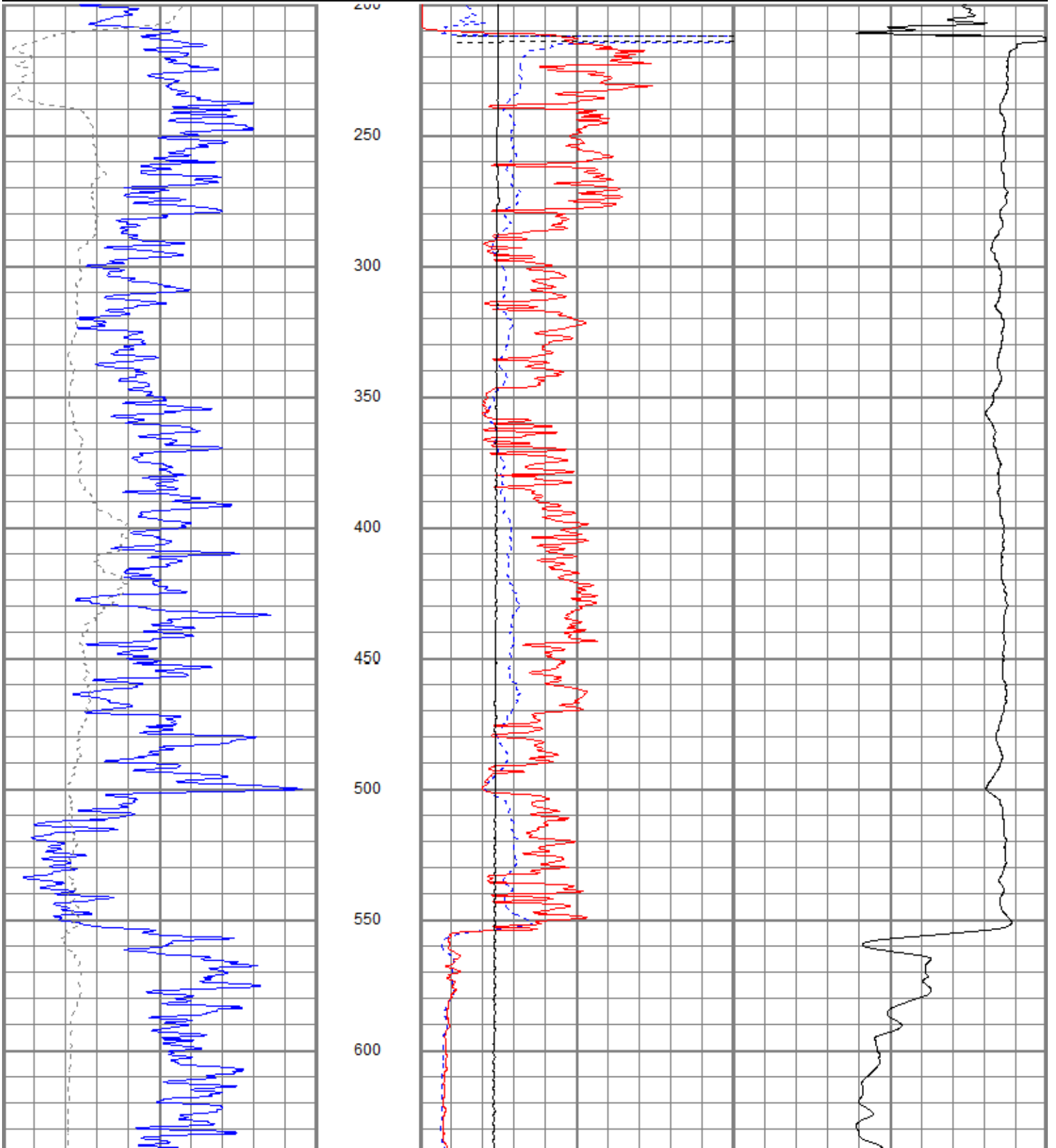
Main Pass

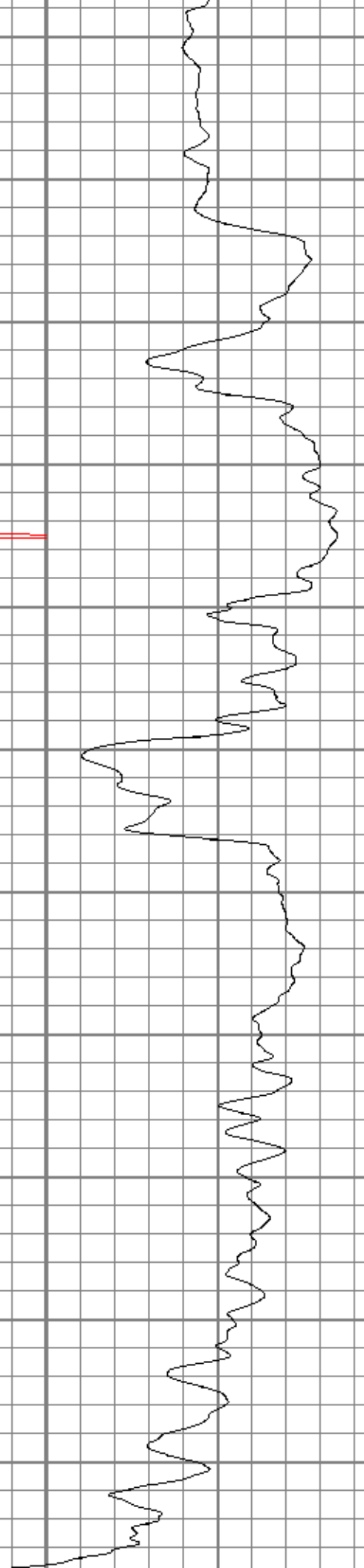
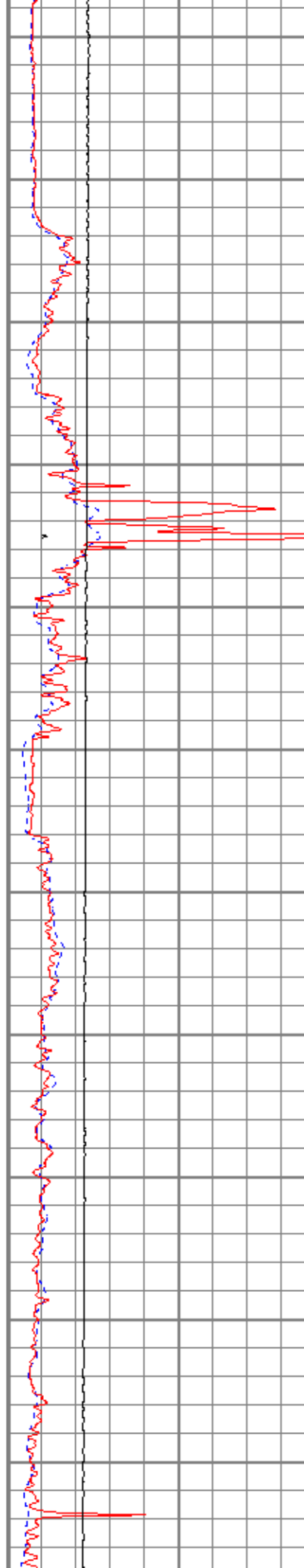
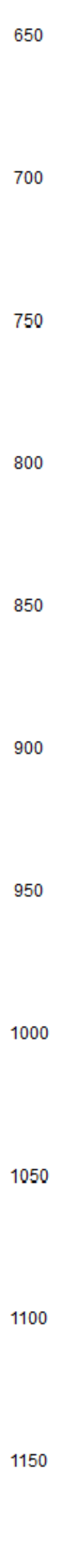
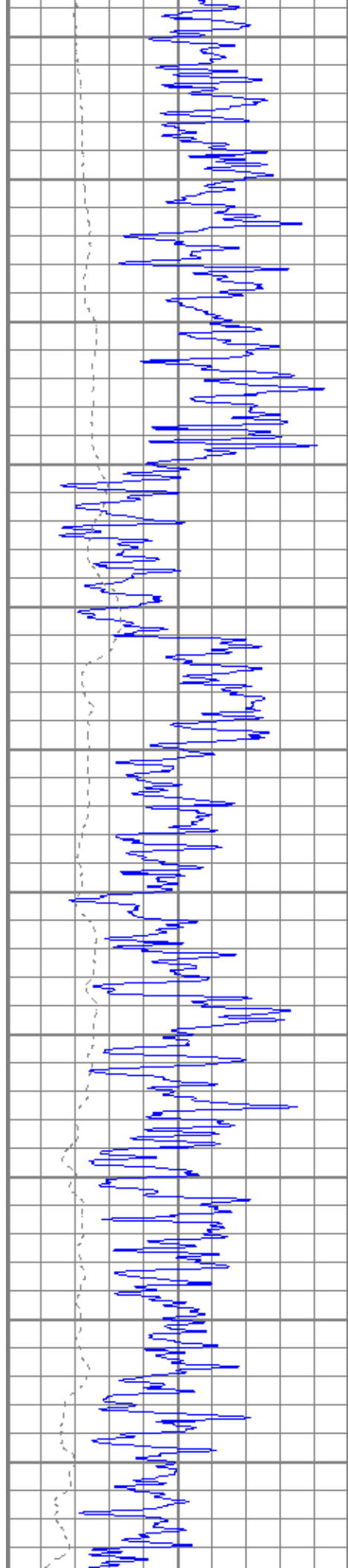
Database File pfdaneghansenfoundation#1-15oh.db
 Dataset Pathname pass2
 Presentation Format kdillin2
 Dataset Creation Wed Apr 13 07:12:00 2016
 Charted by Depth in Feet scaled 1:600

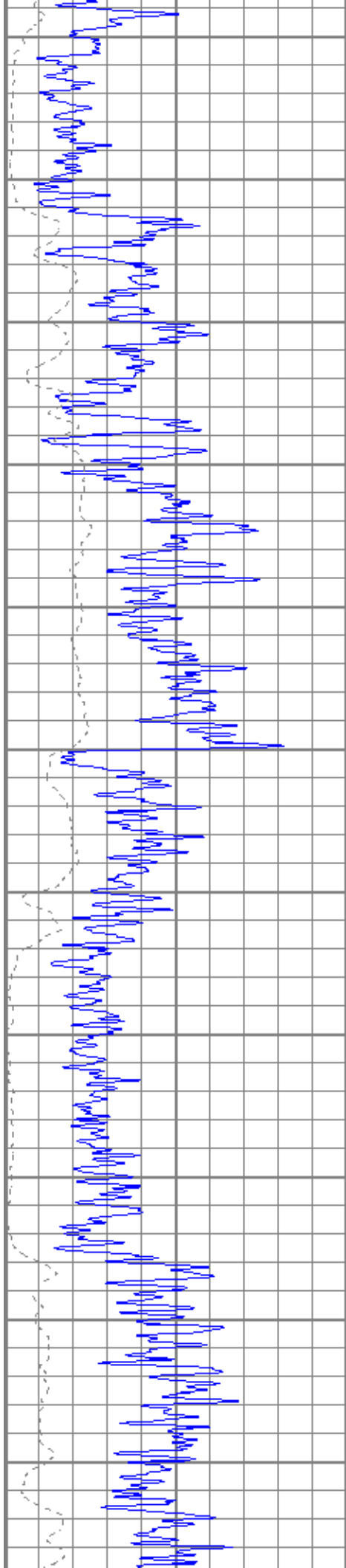
0	GR (GAPI)	150
-200	SP (mV)	0

1000	CILD (mmho/m)	0
10000	LTEN (lb)	0

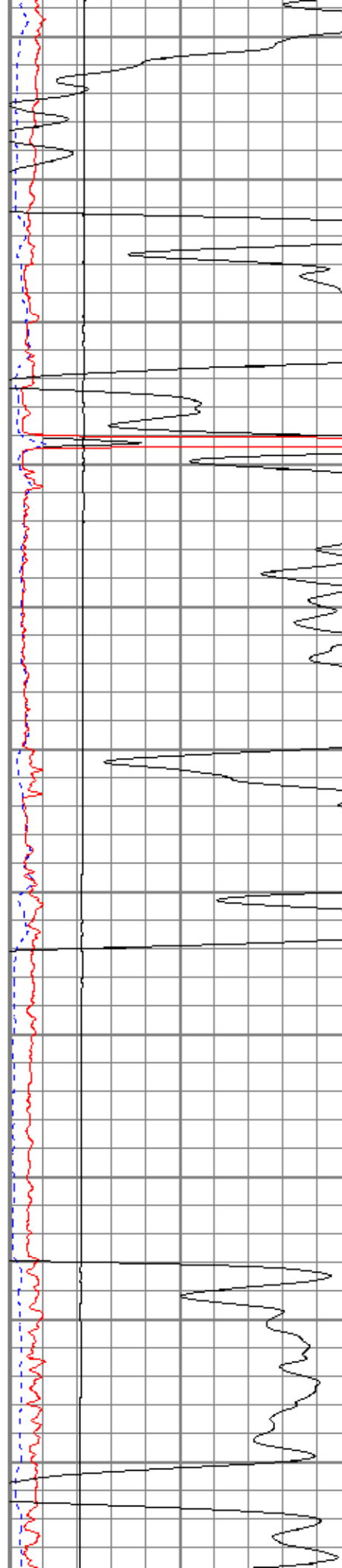
0	RILD (Ohm-m)	50
0	RLL3 (Ohm-m)	50
50	RILD x 10 (Ohm-m)	500
50	RLL3 x 10 (Ohm-m)	500

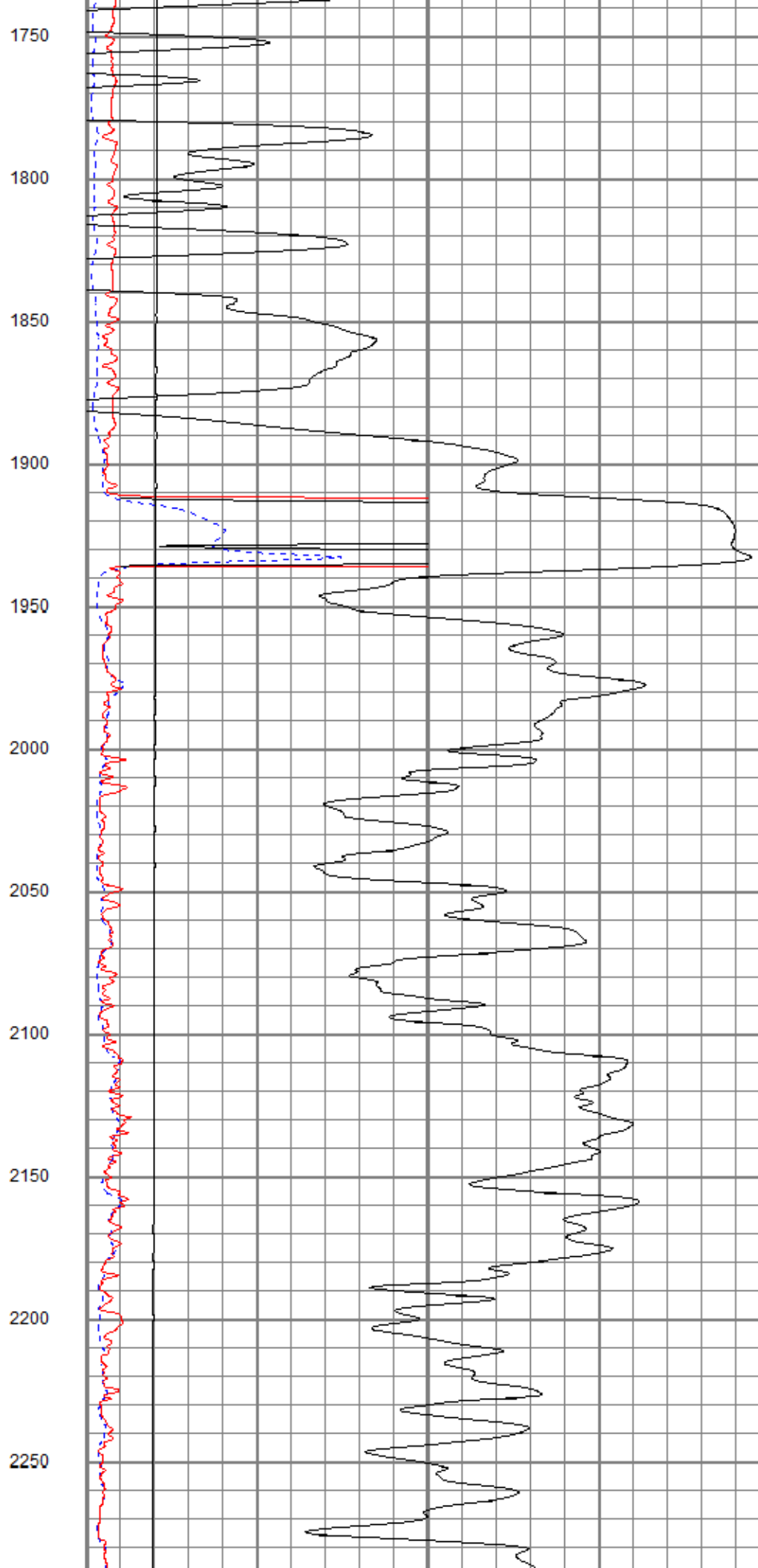
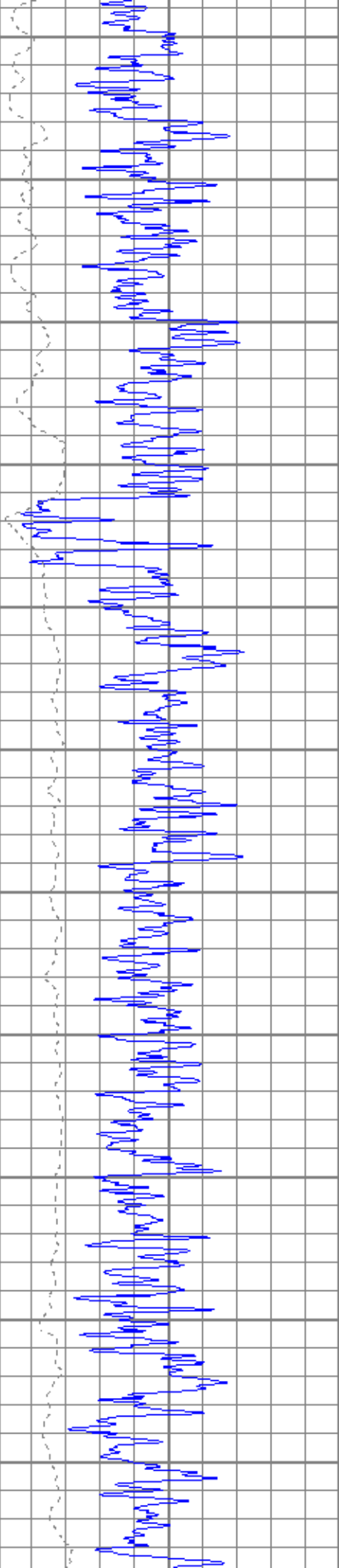


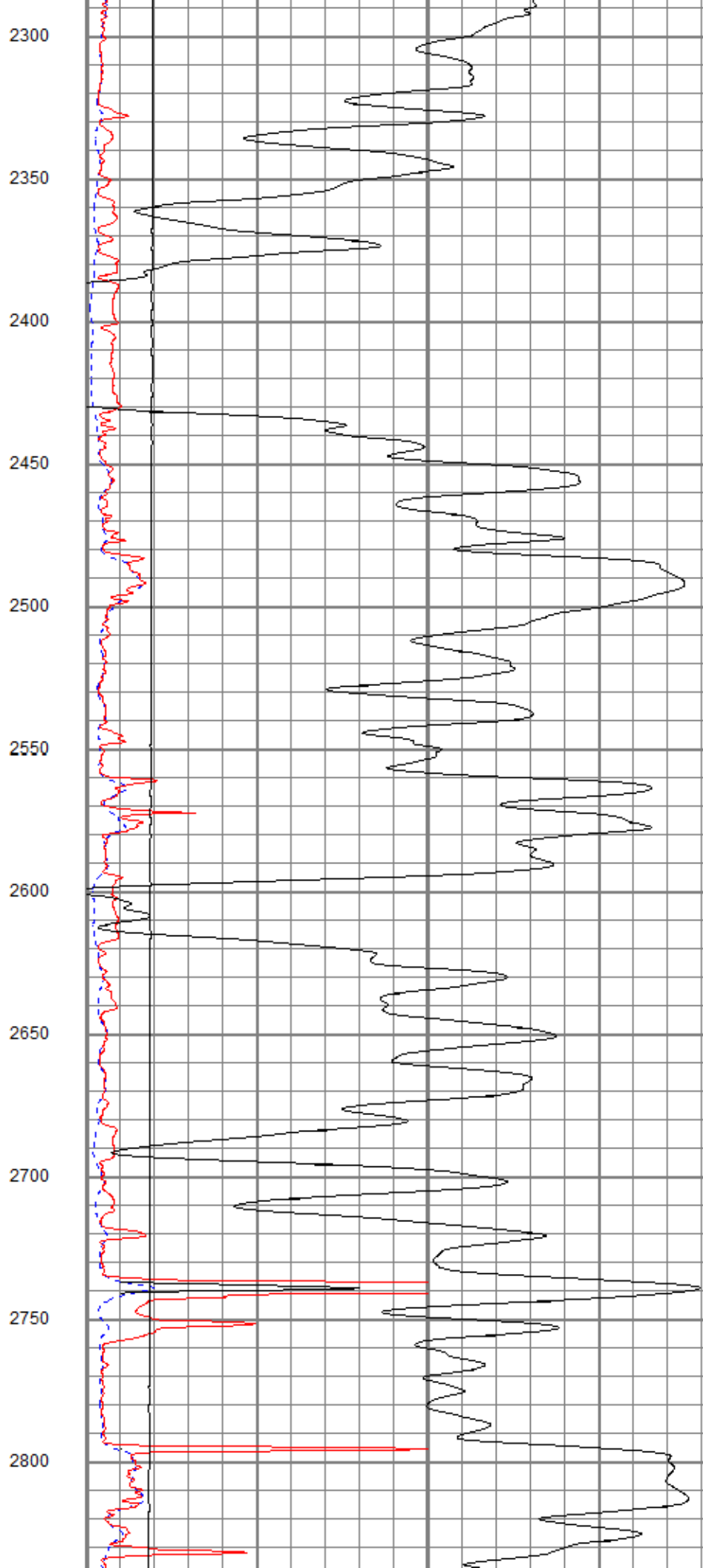
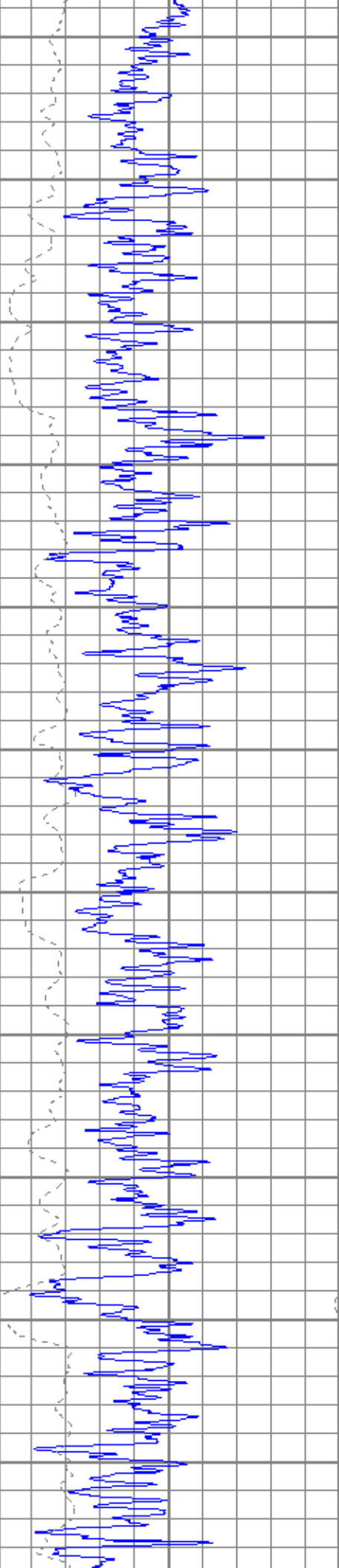


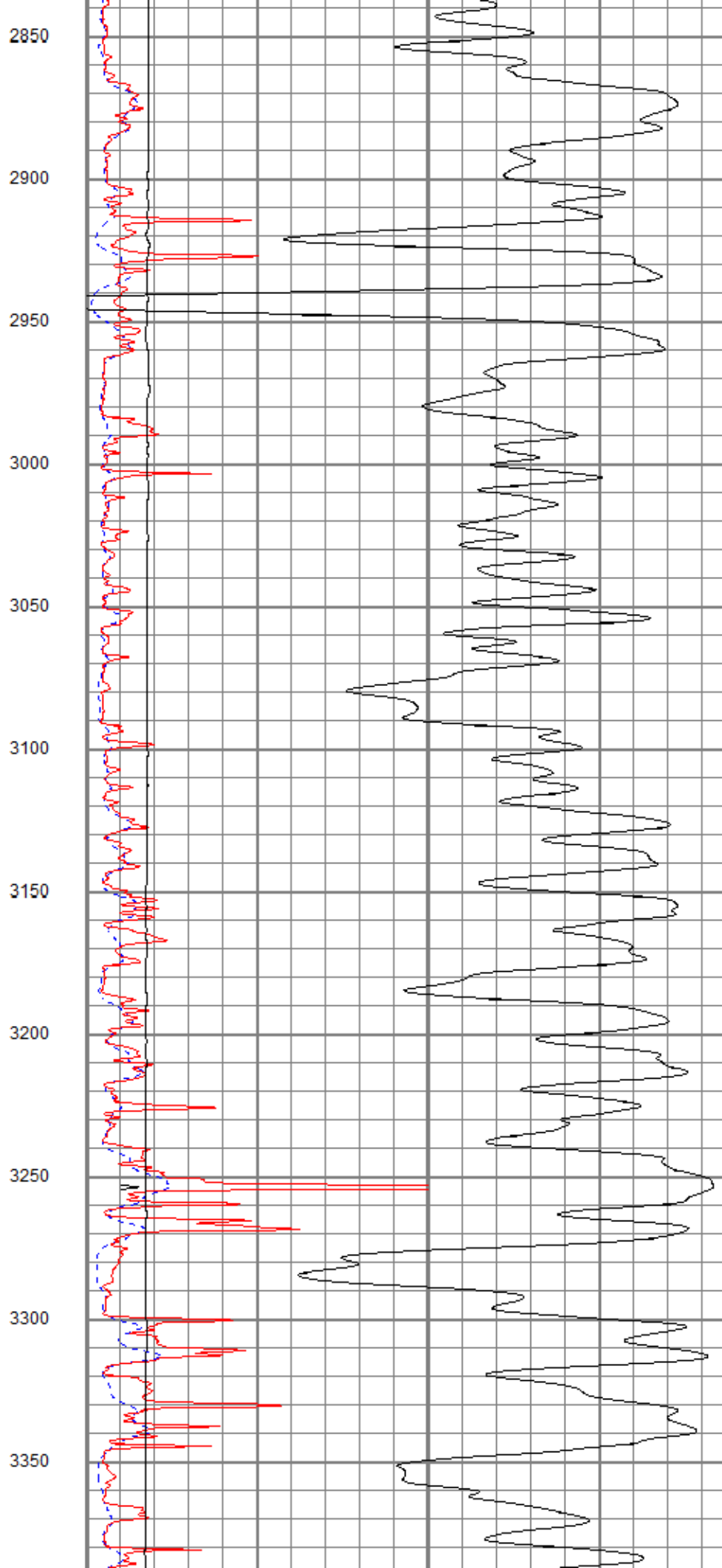
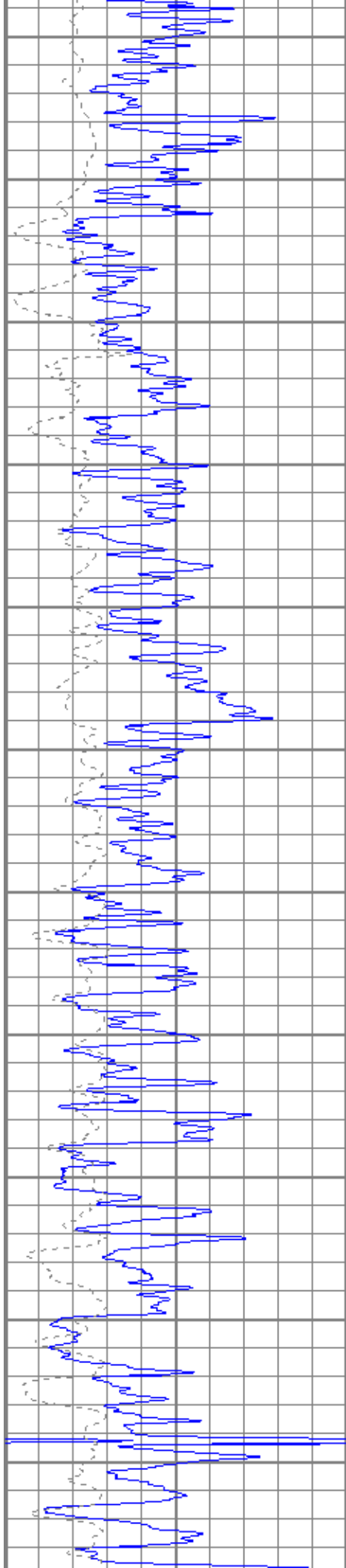


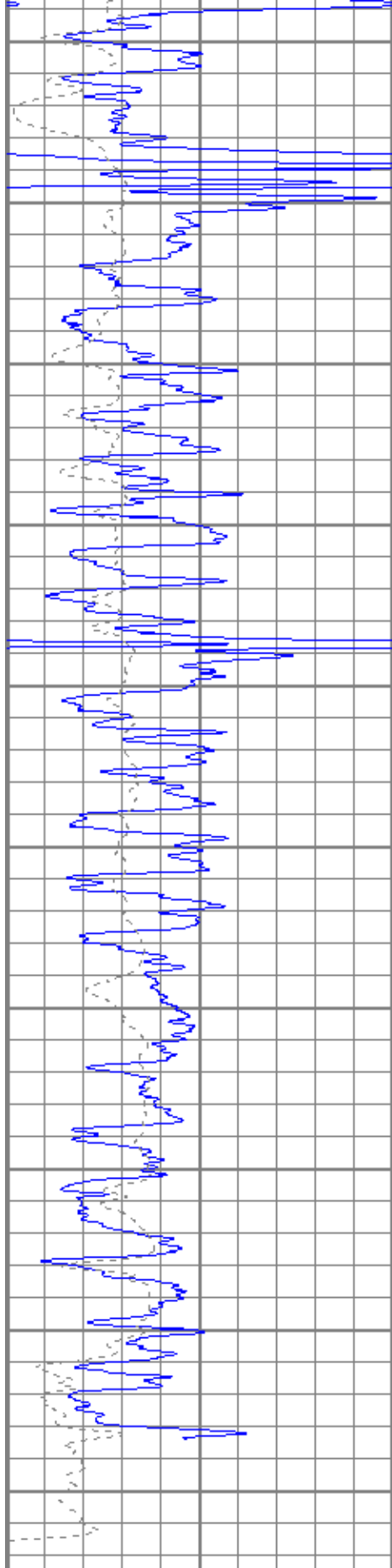
1200
1250
1300
1350
1400
1450
1500
1550
1600
1650
1700



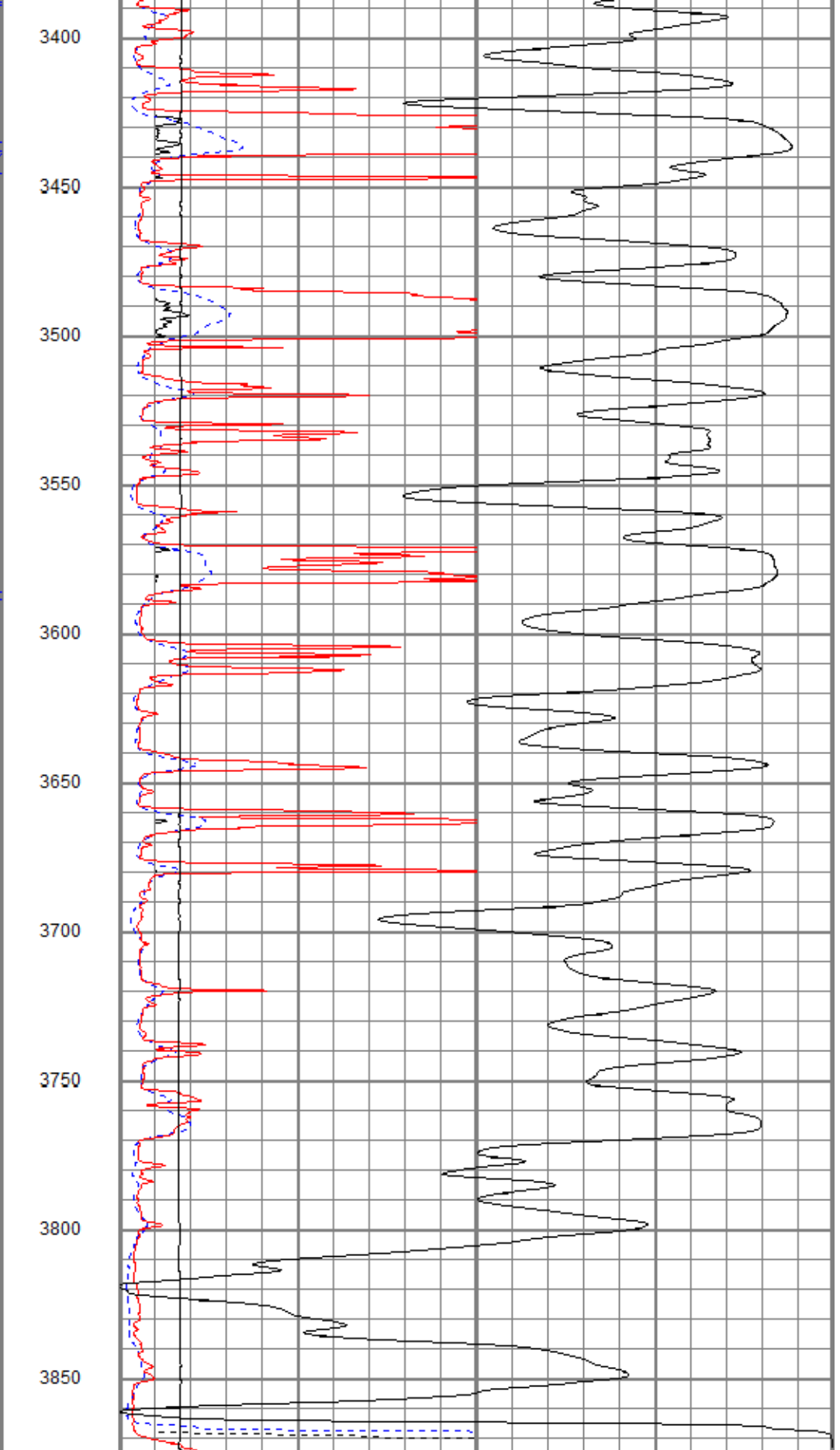








3400
3450
3500
3550
3600
3650
3700
3750
3800
3850



1000 CILD (mmho/m) 0

10000 LTEN (lb) 0

0 GR (GAPI) 150
-200 SP (mV) 0

0 RILD (Ohm-m) 50

0 RLL3 (Ohm-m) 50

50 RILD x 10 (Ohm-m) 500

50 RLL3 x 10 (Ohm-m) 500

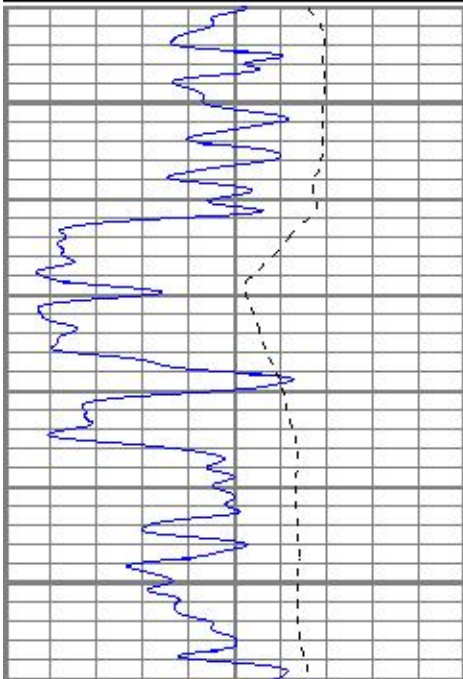


Main Pass

Database File pfdaneghansenfoundation#1-15oh.db
 Dataset Pathname pass2
 Presentation Format kdil
 Dataset Creation Wed Apr 13 07:12:00 2016
 Charted by Depth in Feet scaled 1:240

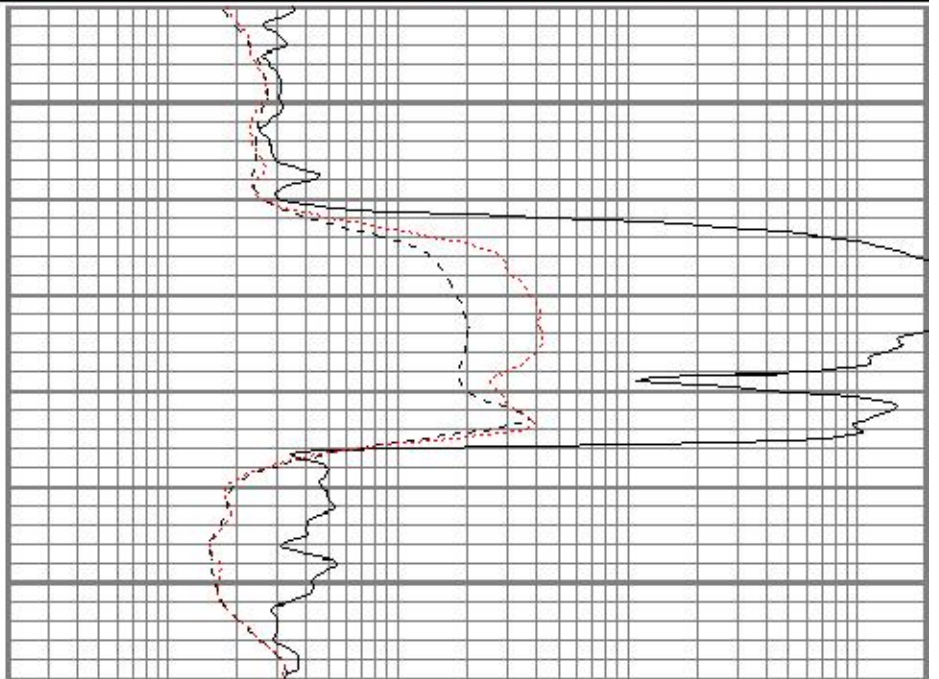
0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



1900

1950



0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



Main Pass

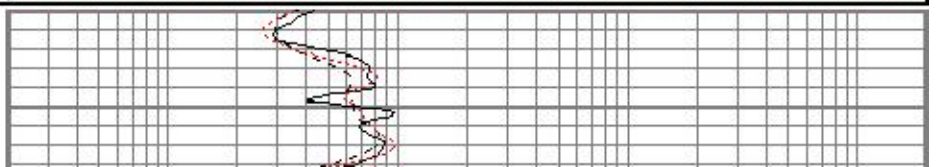
Database File pfdaneghansenfoundation#1-15oh.db
 Dataset Pathname pass2
 Presentation Format kdil
 Dataset Creation Wed Apr 13 07:12:00 2016
 Charted by Depth in Feet scaled 1:240

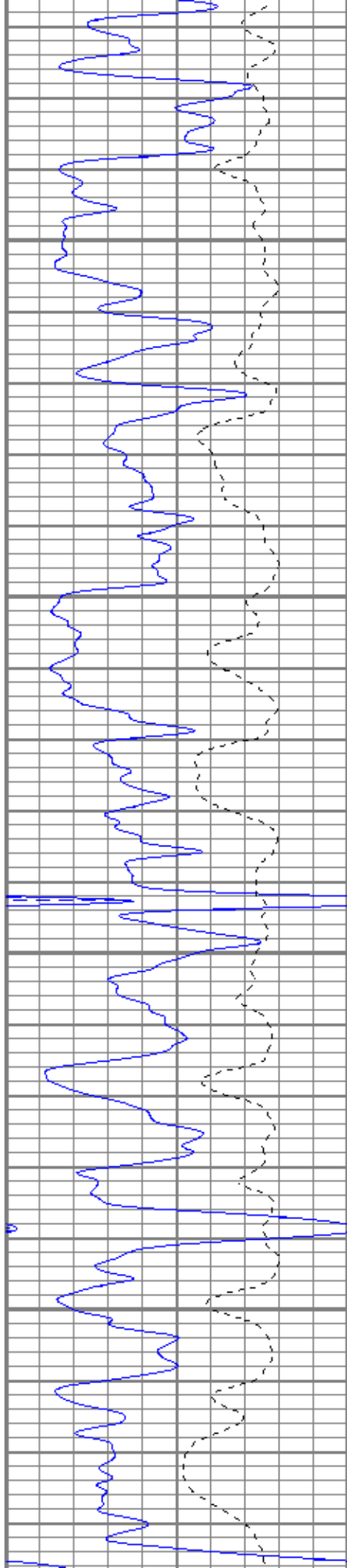
0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



2000



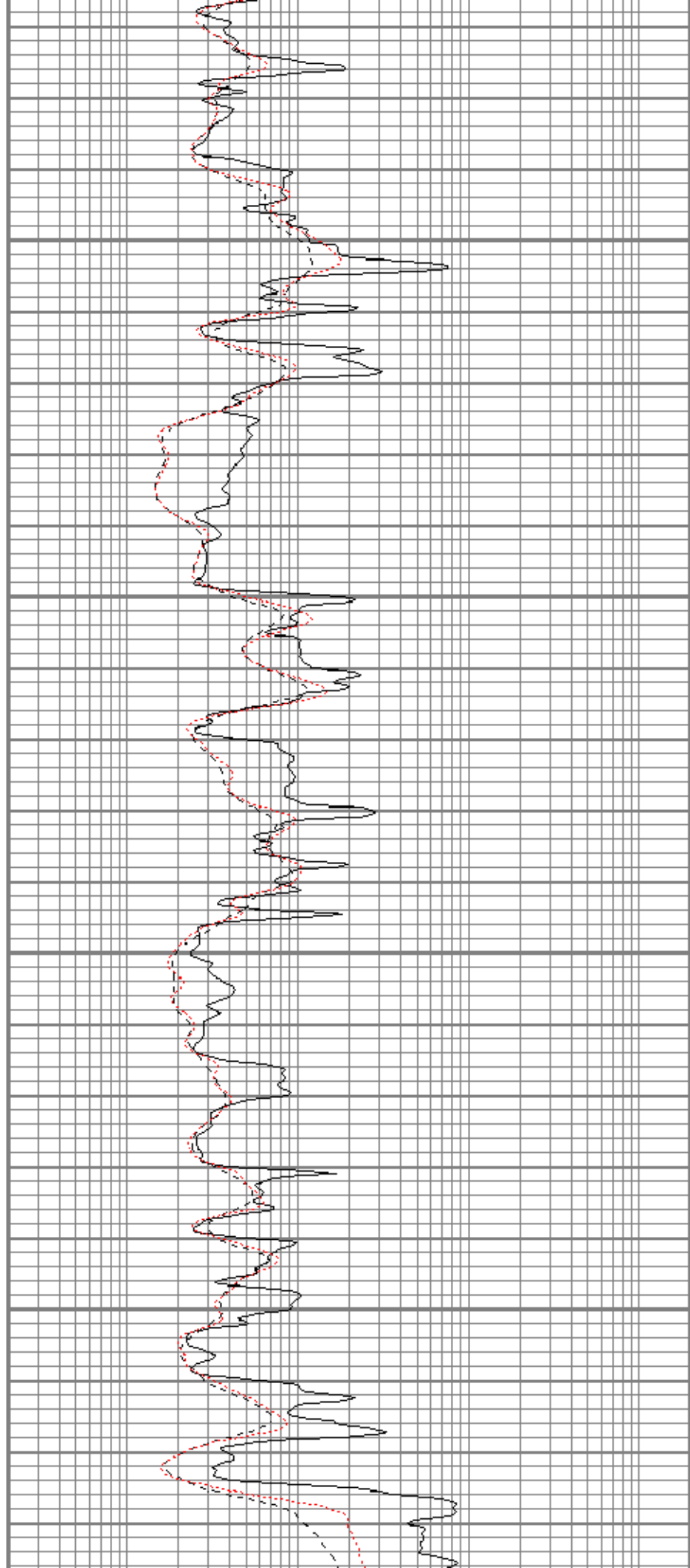


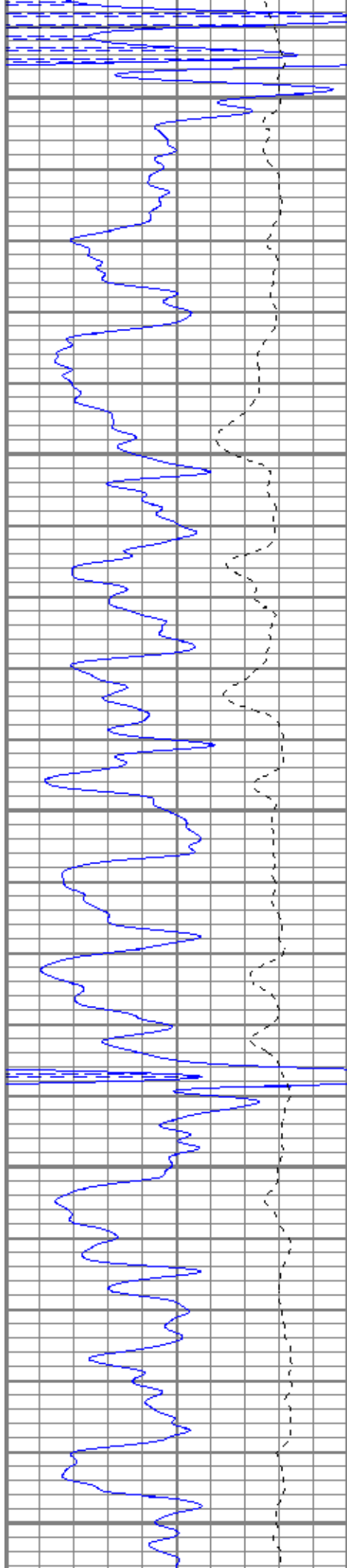
3250

3300

3350

3400





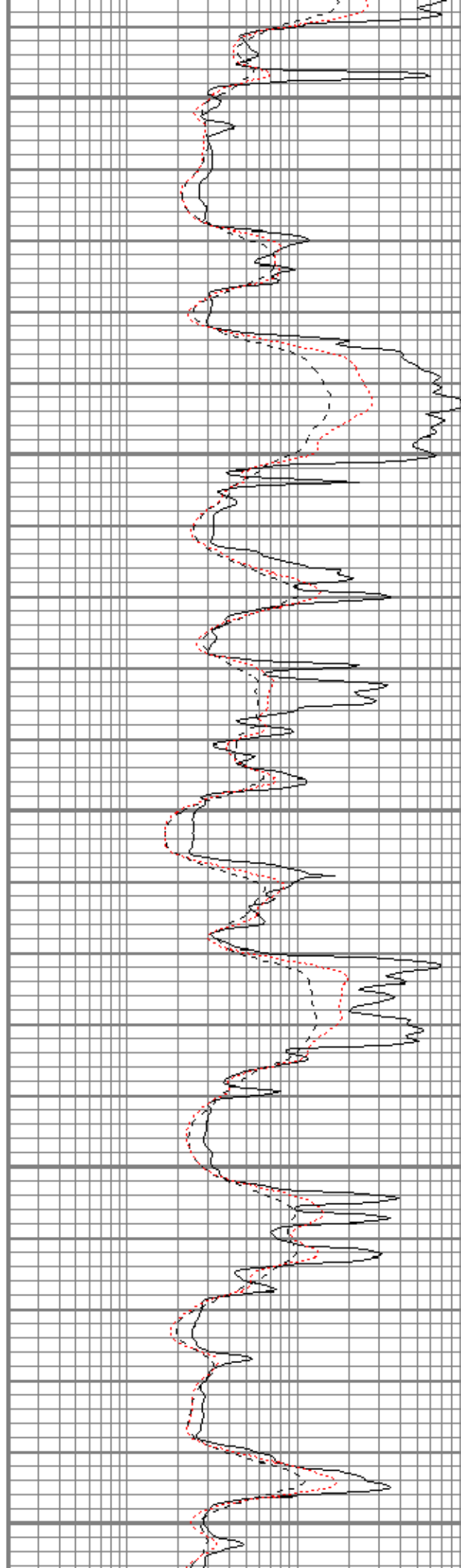
3450

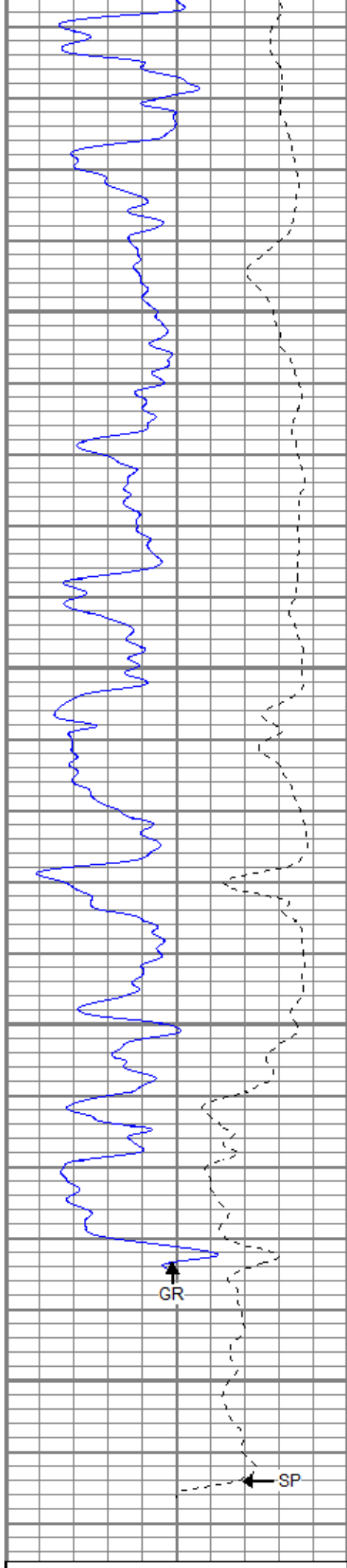
3500

3550

3600

3650





3700

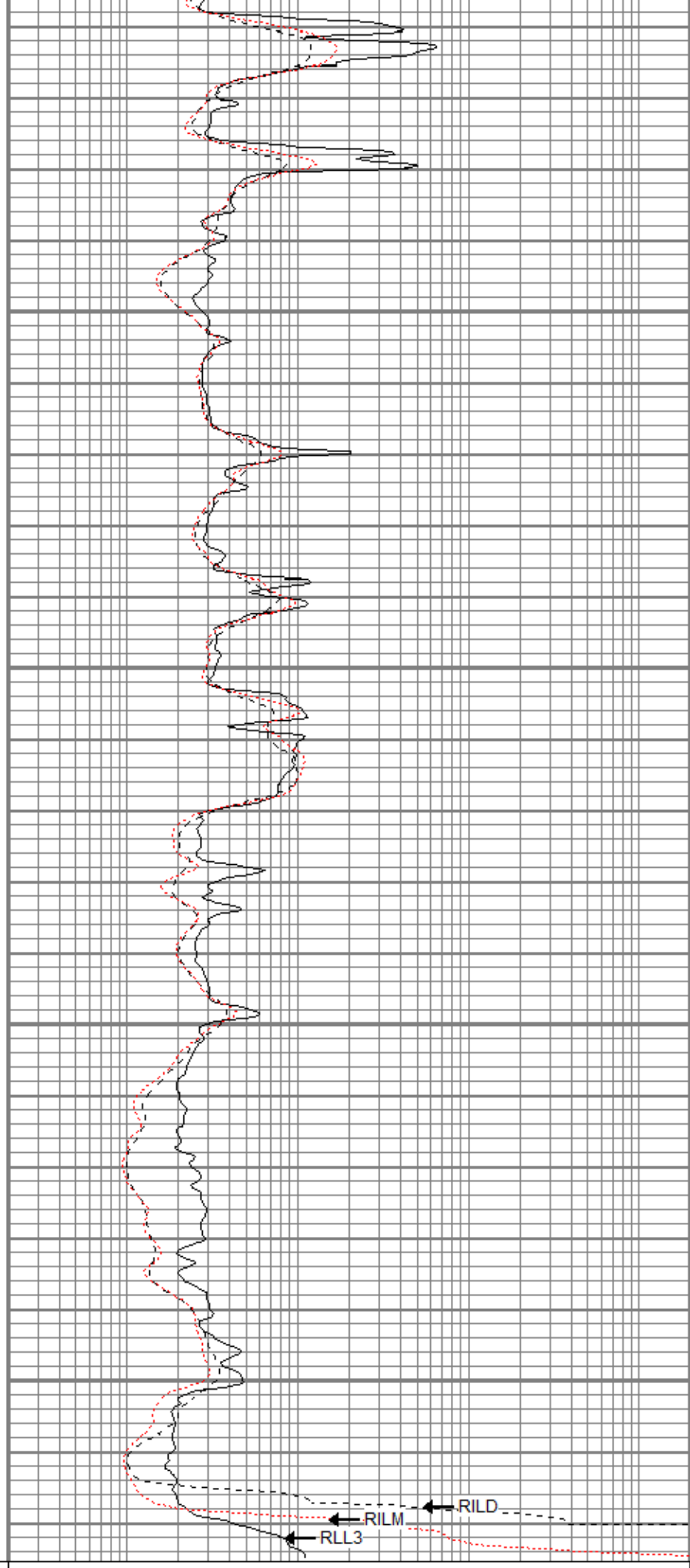
3750

3800

3850

GR

SP



RILM

RILD

RLL3

0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

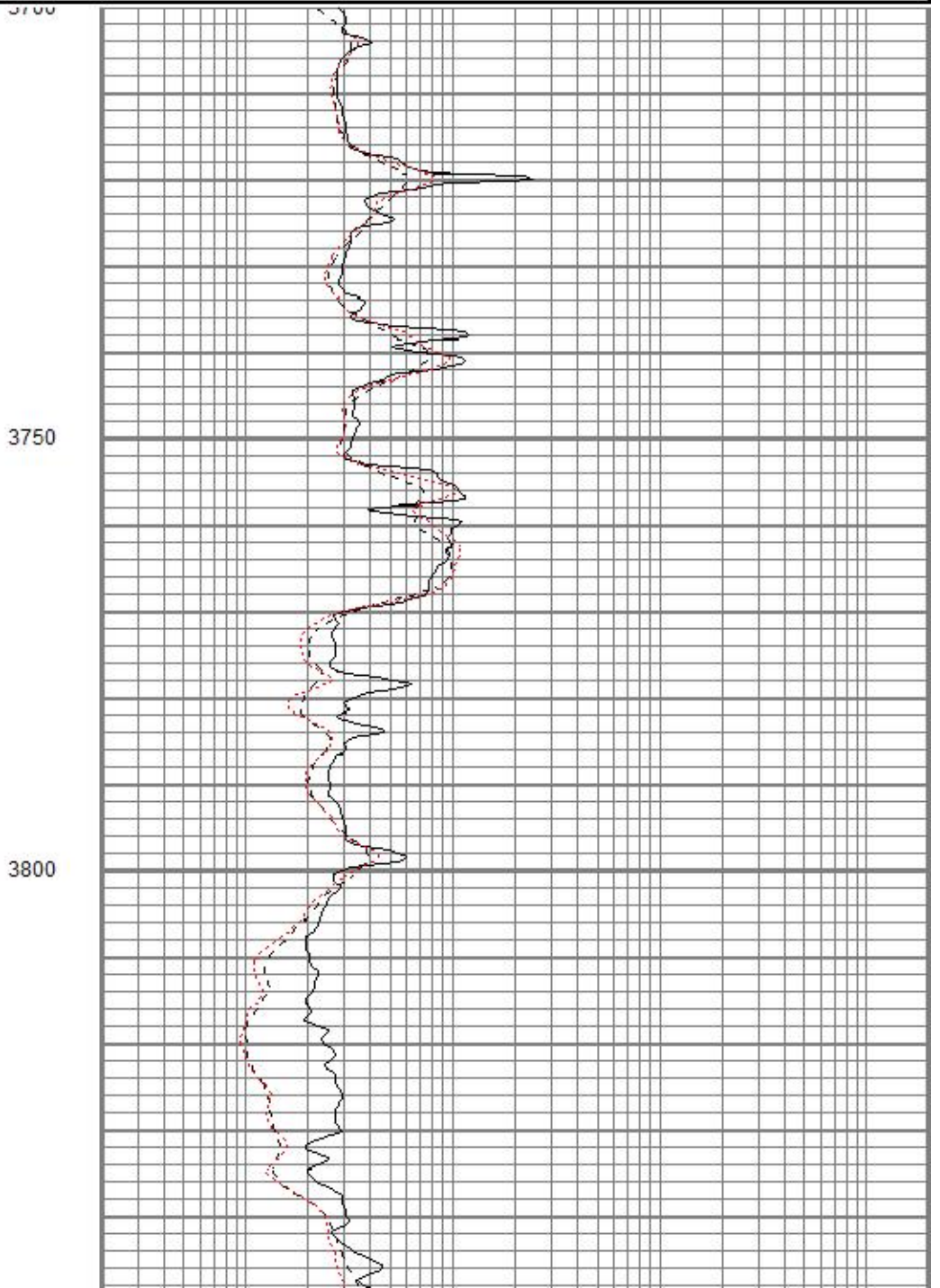
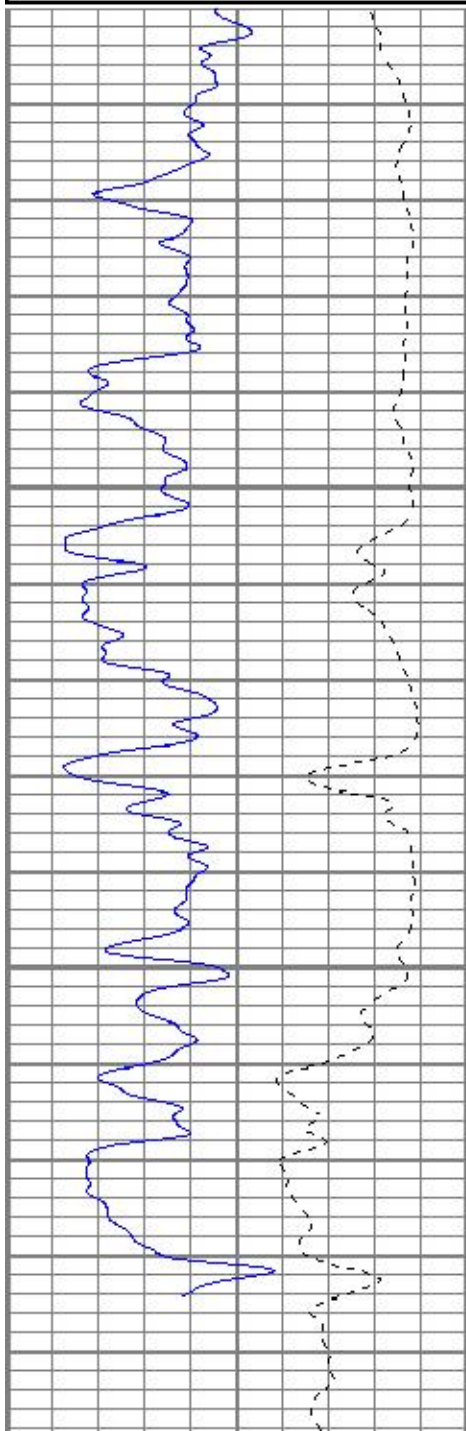


Repeat Pass

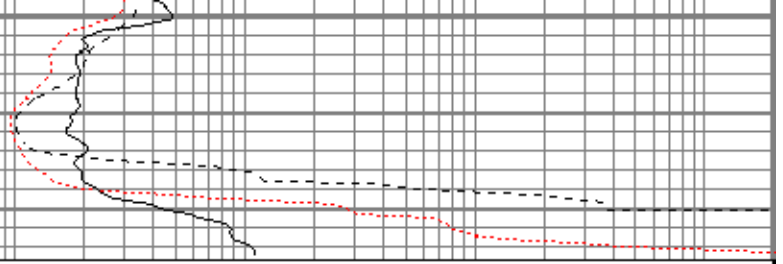
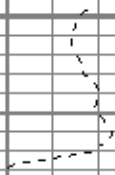
Database File pfdaneghansenfoundation#1-15oh.db
 Dataset Pathname pass1
 Presentation Format kdil
 Dataset Creation Wed Apr 13 06:55:49 2016
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



3850



0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

Calibration Report

Database File pfdaneghansenfoundation#1-15oh.db
 Dataset Pathname pass1
 Dataset Creation Wed Apr 13 06:55:49 2016

Dual Induction Calibration Report

Serial-Model: 080522-Probe
 Surface Cal Performed: Mon Mar 14 11:26:37 2016
 Downhole Cal Performed: Mon Mar 14 11:26:40 2016
 After Survey Verification Performed: Mon Mar 14 11:26:42 2016

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	-0.040	0.651	V	0.000	400.000	mmho/m	578.981	22.871
Medium	-0.028	0.742	V	0.000	464.000	mmho/m	602.582	16.690
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.016	0.653	V	0.000	400.000	mmho/m	598.311	9.396
Medium	-0.025	0.747	V	0.000	464.000	mmho/m	601.262	14.808

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	6.834	401.088	mmho/m	13.778	400.855	mmho/m	0.982	7.068
Medium	-2.964	468.230	mmho/m	1.850	466.869	mmho/m	0.987	4.775
LL3		7.145	V		750.000	Ohm-m		
		0.016	V		12.000	Ohm-m		
		-7.248	V		3745.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	6.834	401.088	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-2.964	468.230	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		750.000	Ohm-m		
		0.000	Ohm-m		12.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Neutron Calibration Report

Serial Number: 2301AN
 Tool Model: Oilex
 Performed: (Not Performed)

Calibrator Value: 1 NAPI

Calibrator Reading: 1 cps

Sensitivity: 1 NAPI/cps

Gamma Ray Calibration Report

Serial Number: 1
 Tool Model: A
 Performed: Sat Apr 09 21:14:16 2016

Calibrator Value: 1.0 GAPI
 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.7000 GAPI/cps

Temperature Calibration Report

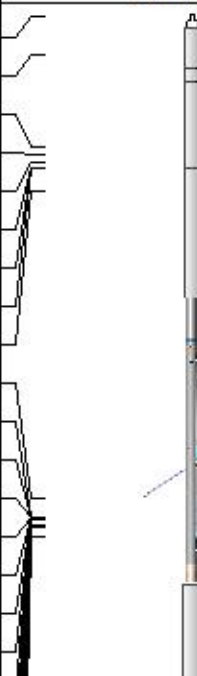
Serial Number: 1
 Tool Model: A
 Performed: Sat Apr 09 21:14:20 2016

	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	39.99		CHD-STD	0.50	1.69	1.00
GR	38.71		ADT1PULSE-A (1)	0.83	3.50	10.00
TEMP	35.74		Pulsed Interface Tool #1			
ASTAT	35.45		ADT1ADC-A (1)	0.83	3.50	10.00
GRD	35.20		Analog Interface #1			
ACCY	35.03		ADT1SENSORS-A (1)	4.54	3.50	10.00
ACCX	35.03		NEU-Oilex (2301AN)	4.27	3.50	80.00
SSTAT	35.03		Oilex 100V NEU			
NEU	34.26					
LStat	24.30					
LS8	23.64		ADT1LITH-A (1)	9.29	3.50	240.00
LS7	23.64		Admyr Litho Density Tool			
LS6	23.64					
LS5	23.64					
LS4	23.64					
LS3	23.64					
LS2	23.64					

LS1	23.64		21.47	4.00	345.00				
LSV	23.64								
LSD	23.62								
SSV	23.43								
SS8	23.43								
SS7	23.43								
SS6	23.43								
SS5	23.43								
SS4	23.43								
SS3	23.43								
SS2	23.43								
SS1	23.43								
DCAL	23.37								
SSD	23.04								
SP	10.60								
CILD	10.60								
CILM	6.89					Dataset: pfdaneghansenfoundation#1-15oh.db: field/well/run1/pass1			
RLL3	1.70					Total length: 40.07 ft			
TR_Mon	0.00	Total weight: 696.00 lb							
		O.D.: 4.00 in							



**COMPENSATED DENSITY
NEUTRON
LOG**

Company: Prairie Fire Petroleum, LLC.		Company: Prairie Fire Petroleum, LLC.	
Well: Dane G. Hansen Foundation #1-15		Well: Dane G. Hansen Foundation #1-15	
Field: Wildcat		Field: Wildcat	
County: Norton		County: Norton	
State: KS		State: KS	
Location: 545' FNL & 2090' FWL		API #: 15 137 20737	
Permanent Datum: SEC 15 TWP 2S RGE 21W		Ground Level: 2192'	
Log Measured From: KB 5' AGL		Elevation: 2192'	
Drilling Measured From: KB		Other Services: BCS, DIL, ML	
Elevation: 2192'		K.B. 2197'	
		D.F. 2196'	
		G.L. 2192'	

Date	4-13-16
Run Number	One
Depth Driller	3875'
Depth Logger	3875'
Bottom Logged Interval	3852'
Top Log Interval	3200'
Casing Driller	8 5/8" @ 220'
Casing Logger	220'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical
Density / Viscosity	9.3/53
PH / Fluid Loss	10.6/6.4
Source of Sample	Pit
Rm @ Meas. Temp	.9@60degf
Rmf @ Meas. Temp	.68@60degf
Rmc @ Meas. Temp	1.08@60degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	.58@92degf
Time Circulation Stopped	3:45 a.m.
Time Logger on Bottom	6:30 a.m.
Maximum Recorded Temperature	92degf
Equipment Number	T127
Location	Hays, KS
Recorded By	Gus Pfanenstiel
Witnessed By	Mr. Kevin Bailey

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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

West out of Phillipsburg to 12 Rd.
North to I Rd. West 1/2 mile,
South into.



Main Pass

Database File pfdaneghansenfoundation#1-15oh.db
 Dataset Pathname pass2.1
 Presentation Format digital_kcdnl
 Dataset Creation Wed Apr 13 07:14:31 2016
 Charted by Depth in Feet scaled 1:240

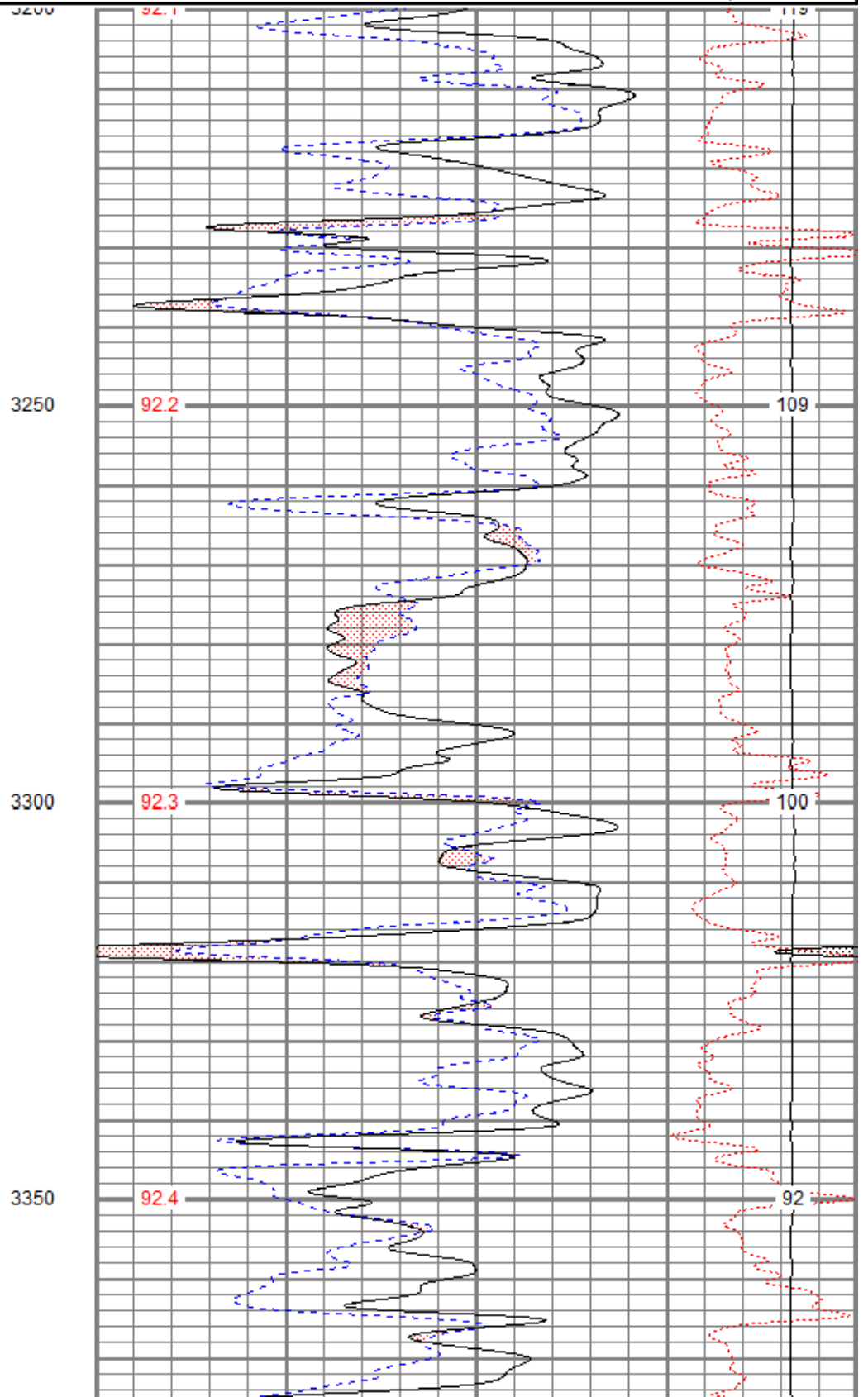
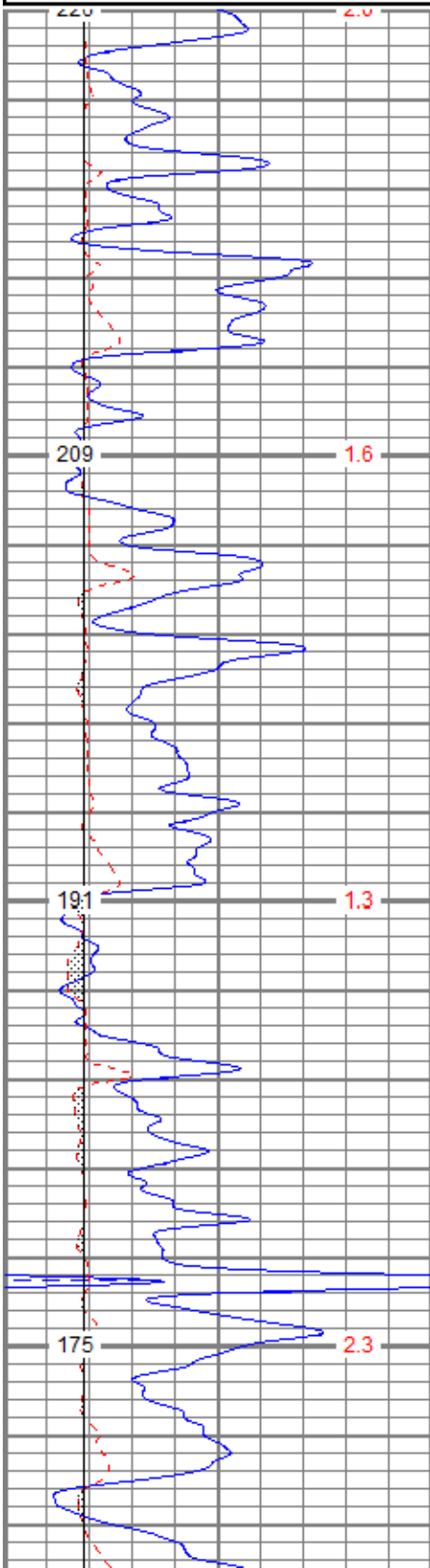
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16

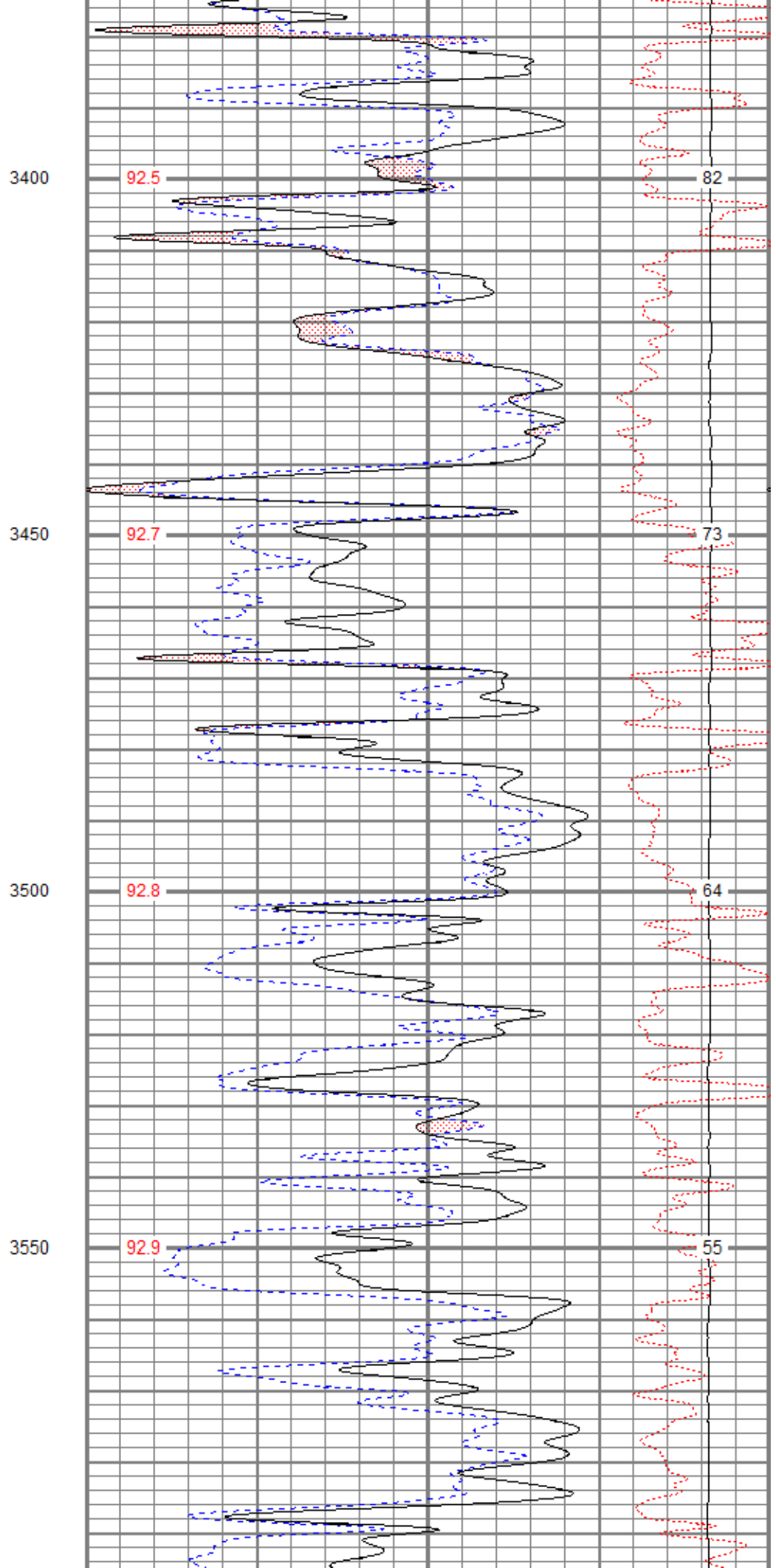
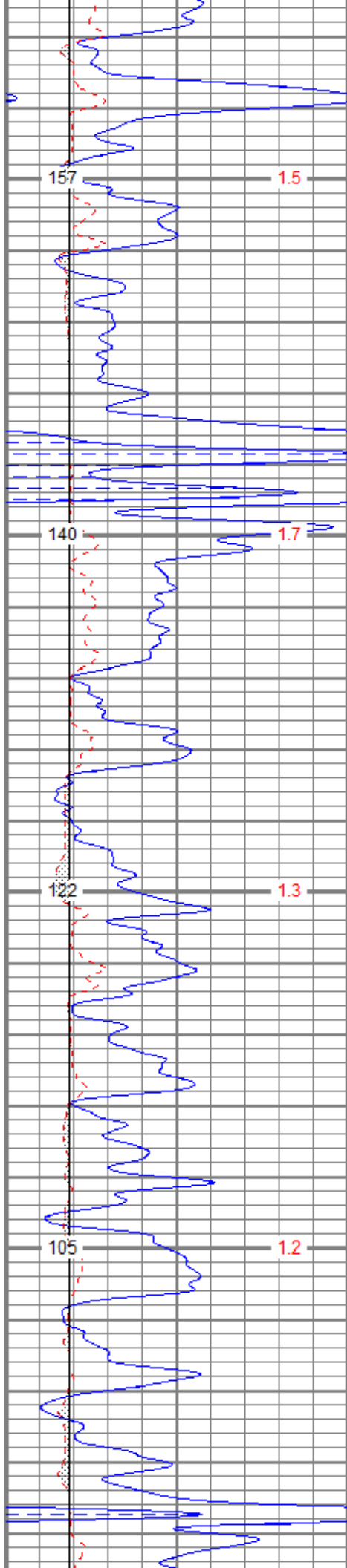
TBHV (ft3)	DEVI (deg)
------------	------------

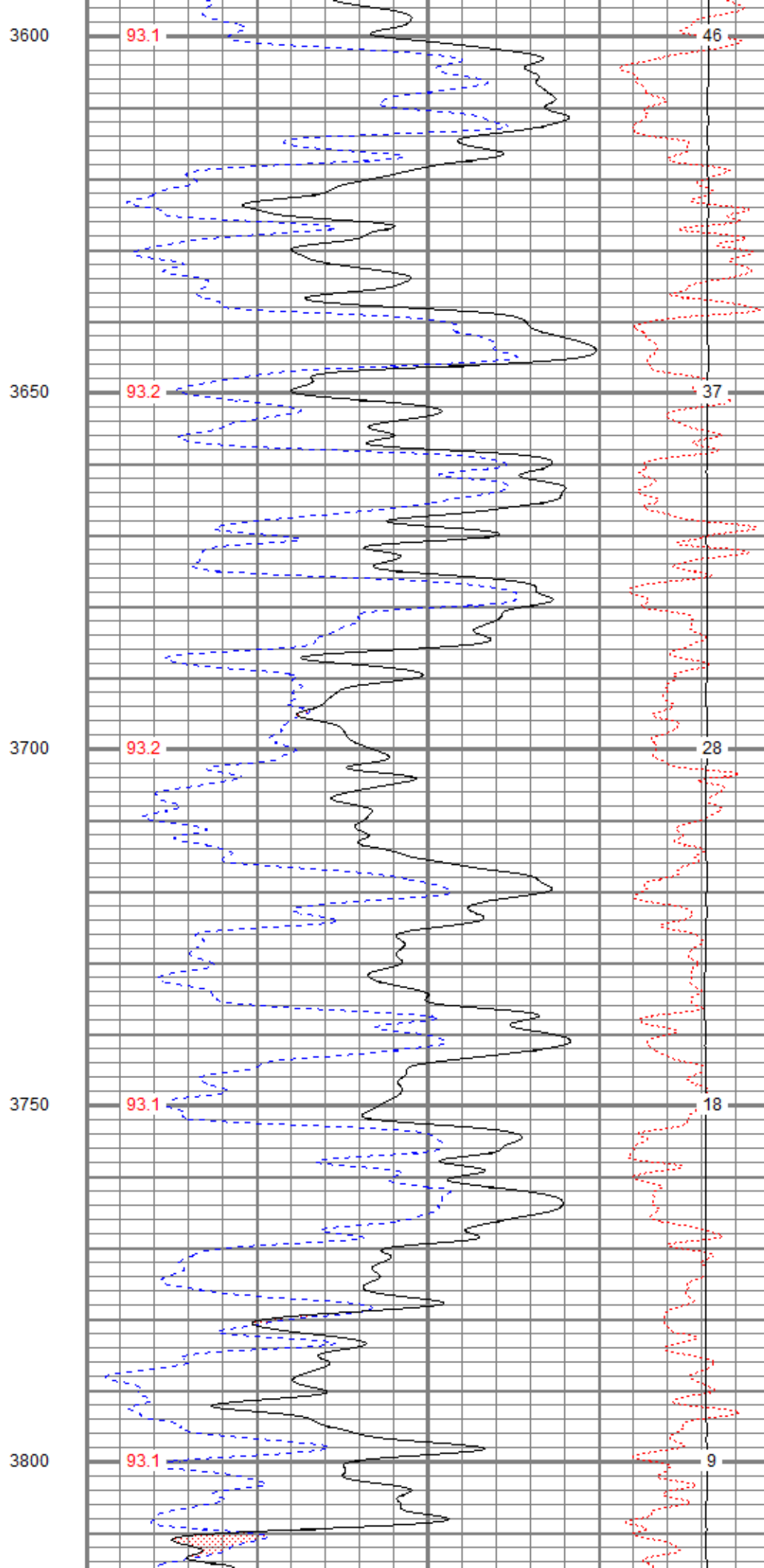
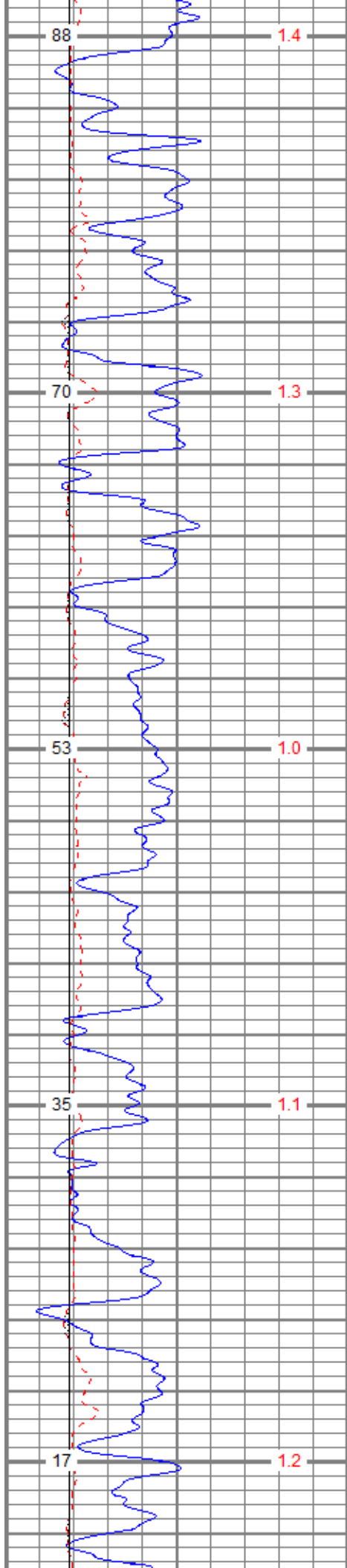
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

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

ABHV (ft3)

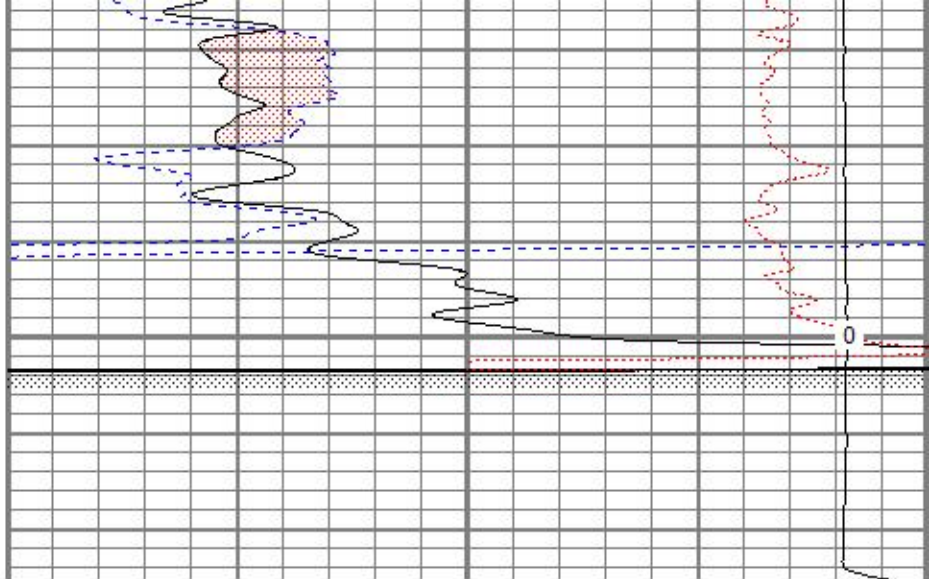








3850



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)



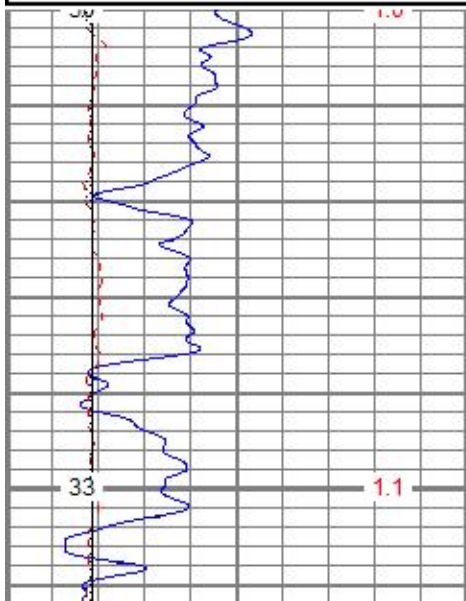
Repeat Pass

Database File pfdaneghansenfoundation#1-15oh.db
 Dataset Pathname pass1
 Presentation Format digital_kcdnl
 Dataset Creation Wed Apr 13 06:55:49 2016
 Charted by Depth in Feet scaled 1:240

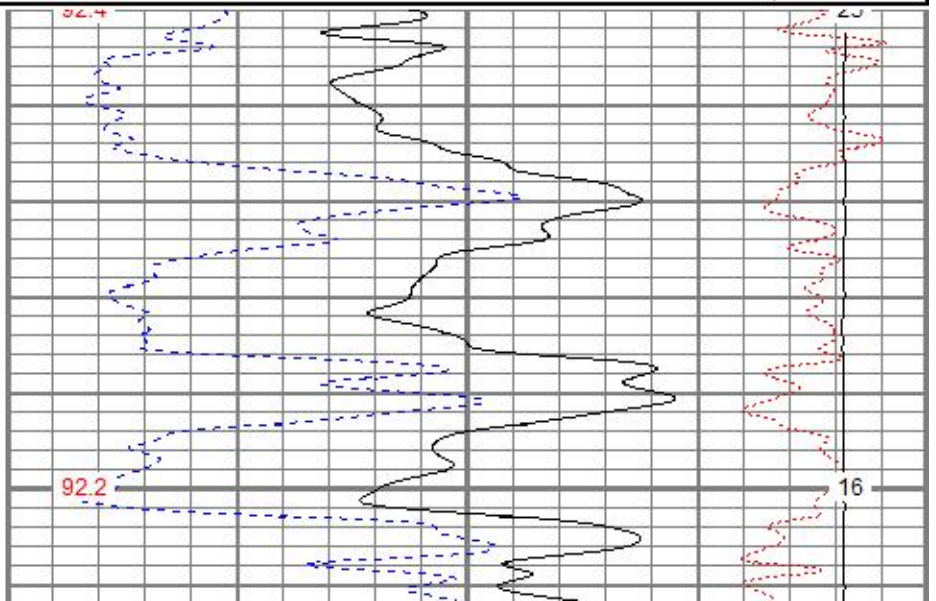
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
TBHV (ft3)		DEVI (deg)

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

ABHV (ft3)



3750



Downhole Calibration			Readings		References		Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	6.834	401.088	mmho/m	13.778	400.855	mmho/m	0.982	7.068
Medium	-2.964	468.230	mmho/m	1.850	466.869	mmho/m	0.987	4.775
LL3		7.145	V		750.000	Ohm-m		
		0.016	V		12.000	Ohm-m		
		-7.248	V		3745.000	mmho-m		

After Survey Verification			Readings		Targets		Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	6.834	401.088	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-2.964	468.230	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		750.000	Ohm-m		
		0.000	Ohm-m		12.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Neutron Calibration Report

Serial Number:	2301AN		
Tool Model:	Oilex		
Performed:	(Not Performed)		
Calibrator Value:	1	NAPI	
Calibrator Reading:	1	cps	
Sensitivity:	1	NAPI/cps	

Gamma Ray Calibration Report

Serial Number:	1		
Tool Model:	A		
Performed:	Sat Apr 09 21:14:16 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	39.99		CHD-STD	0.50	1.69	1.00
GR	38.71		ADT1PULSE-A (1) Pulsed Interface Tool #1	0.83	3.50	10.00
TEMP	35.74		ADT1ADC-A (1) Analog Interface #1	0.83	3.50	10.00
ASTAT	35.45		ADT1SENSORS-A (1)	4.54	3.50	10.00
GRD	35.20		NEU-Oilex (2301AN) Oilex 100V NEU	4.27	3.50	80.00
ACCY	35.03					
ACCX	35.03					
SSTAT	35.03					
NEU	34.26					
LStat	24.30					
LS8	23.64		ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
LS7	23.64					
LS6	23.64					
LS5	23.64					
LS4	23.64					
LS3	23.64					
LS2	23.64					
LS1	23.64					
LSV	23.64					
LSD	23.62					
SSV	23.43					
SS8	23.43					
SS7	23.43					
SS6	23.43		DIL-Probe (080522) Probe Dual Induction	21.47	4.00	345.00
SS5	23.43					
SS4	23.43					
SS3	23.43					
SS2	23.43					
SS1	23.43					
DCAL	23.37					
SSD	23.04					
SP	10.60					
CILD	10.60					
CILM	6.89	Dataset: pfdaneghansenfoundation#1-15oh.db: field/well/run1/pass1				
RLL3	1.70	Total length: 40.07 ft				
TR_Mon	0.00	Total weight: 696.00 lb				
		O.D.: 4.00 in				



**MICRO
RESISTIVITY
LOG**

Company: Prairie Fire Petroleum, LLC.		Well: Dane G. Hansen Foundation #1-15	
Field: Wildcat		County: Norton	
State: KS		Location: API #: 15 137 20737	
Permanent Datum: SEC 15 TWP 2S RGE 21W Log Measured From: KB 5' AGL Drilling Measured From: KB		Ground Level: 2192' Elevation: 2192'	
Location: 545' FNL & 2090' FWL		Other Services: BCS CDNL DIL	

Date	4-13-16
Run Number	Two
Depth Driller	3875'
Depth Logger	3875'
Bottom Logged Interval	3855'
Top Log Interval	3200'
Casing Driller	8 5/8" @ 220'
Casing Logger	220'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical
Density / Viscosity	9.3/53
PH / Fluid Loss	10.6/6.4
Source of Sample	Pit
Rm @ Meas. Temp	.9@60degf
Rmf @ Meas. Temp	.68@60degf
Rmc @ Meas. Temp	1.08@60degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	.58@92degf
Time Circulation Stopped	3:45 a.m.
Time Logger on Bottom	7:45 a.m.
Maximum Recorded Temperature	92degf
Equipment Number	T127
Location	Hays, KS
Recorded By	Gus Pfanenstiel
Witnessed By	Mr. Kevin Bailey

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Comments

West out of Phillipsburg to 12 Rd.
North to I Rd. West 1/2 mile,
South into.

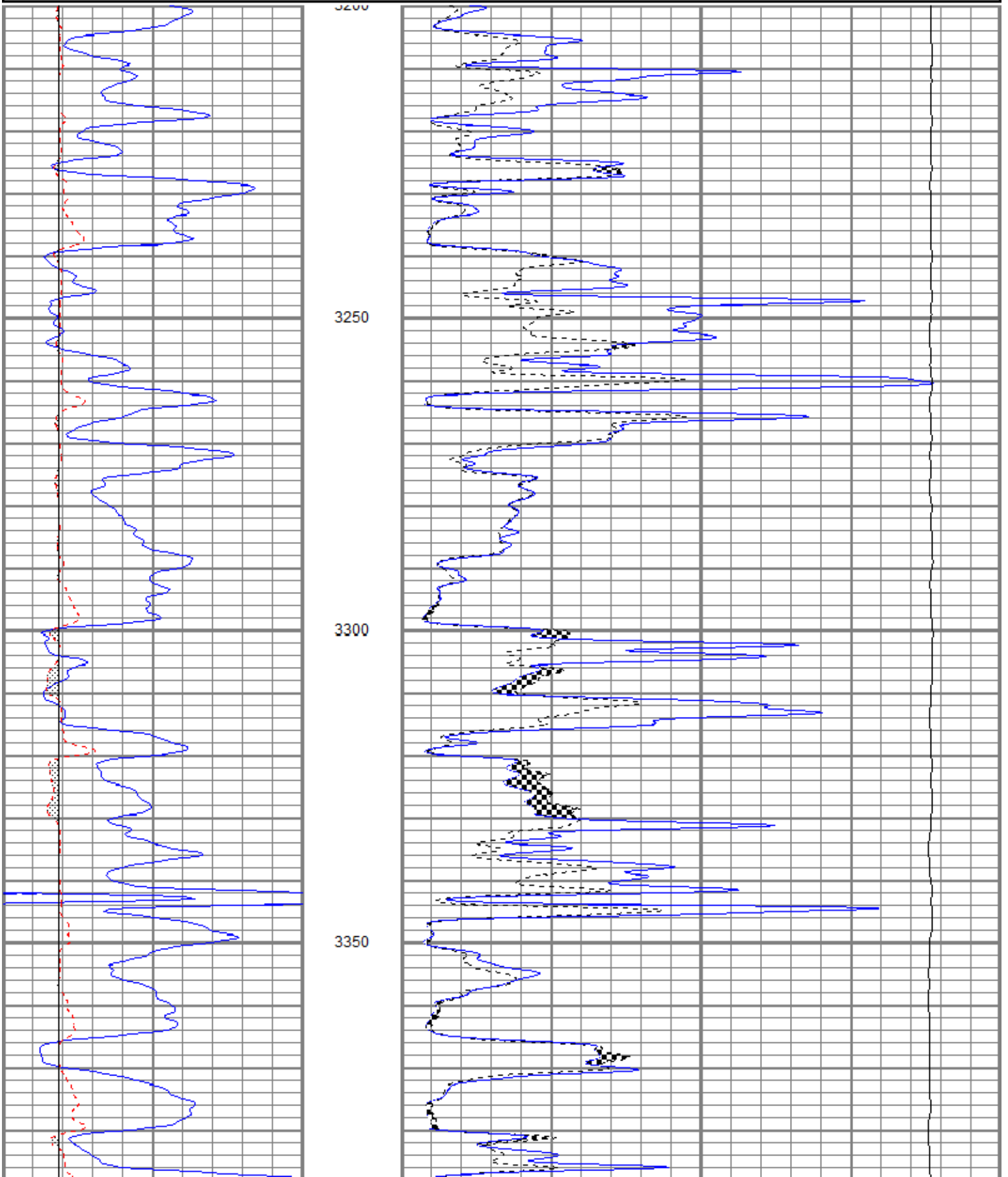


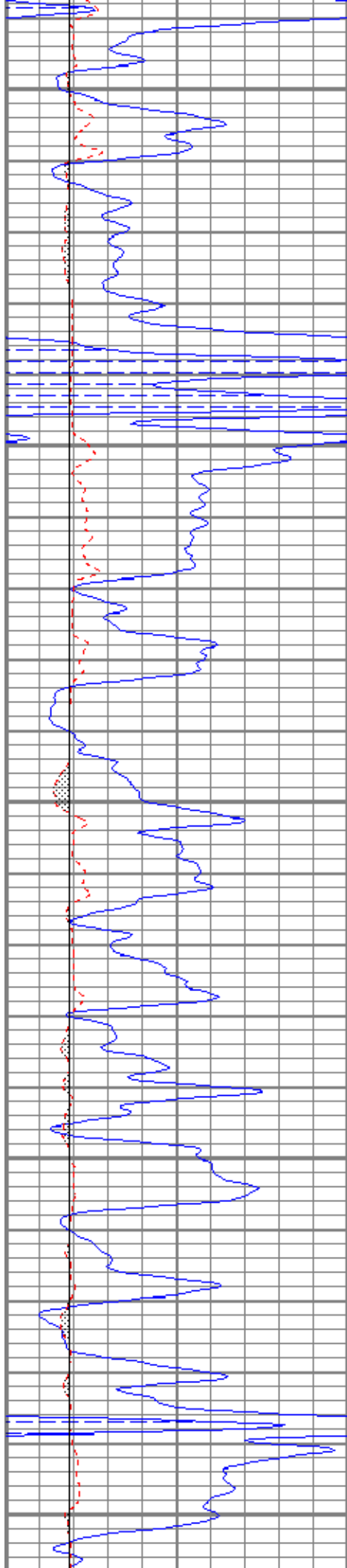
Main Pass

Database File pfdaneghansenfoundation#1-15oh.db
 Dataset Pathname pass4ml
 Presentation Format kml
 Dataset Creation Wed Apr 13 08:12:38 2016
 Charted by Depth in Feet scaled 1:240

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

0	MN 2" (Ohm-m)	20
0	MI 1" (Ohm-m)	20
10000	LTEN (lb)	0





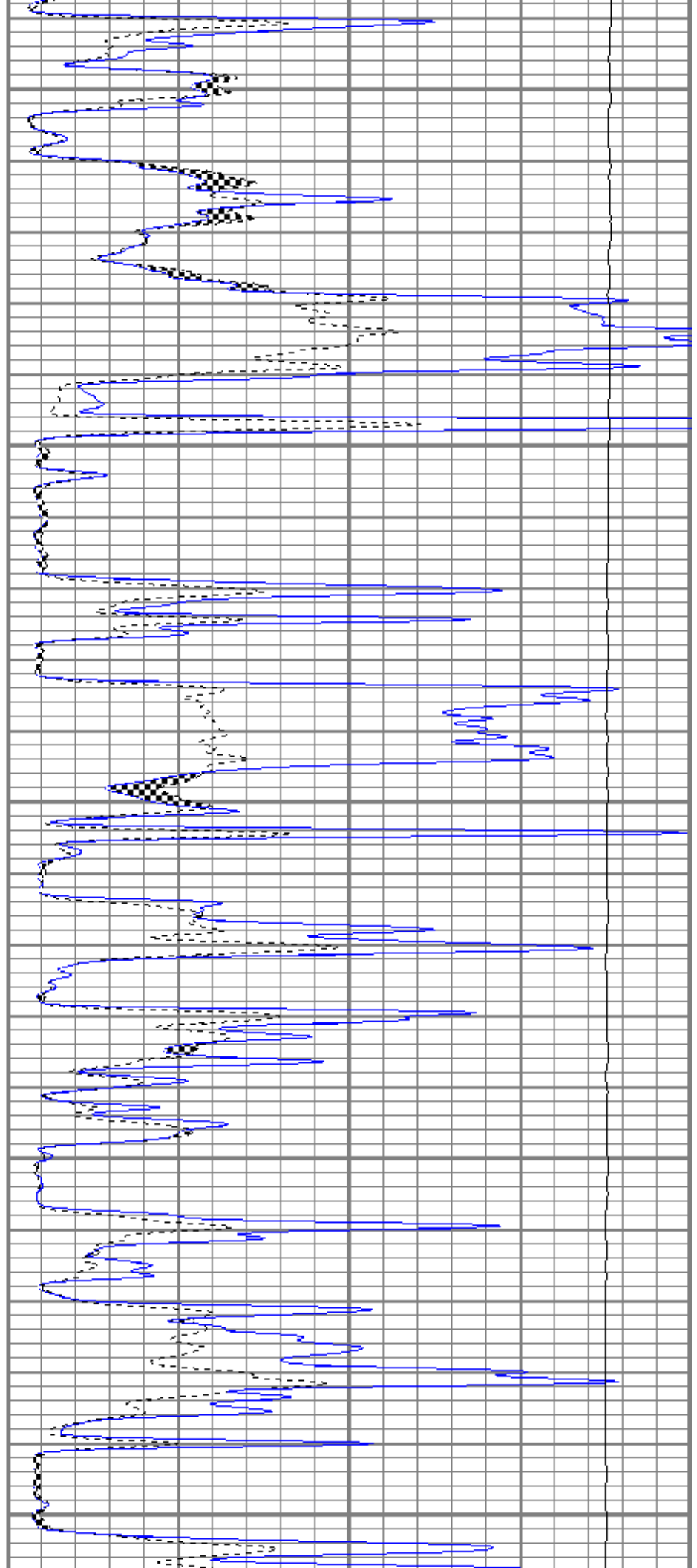
3400

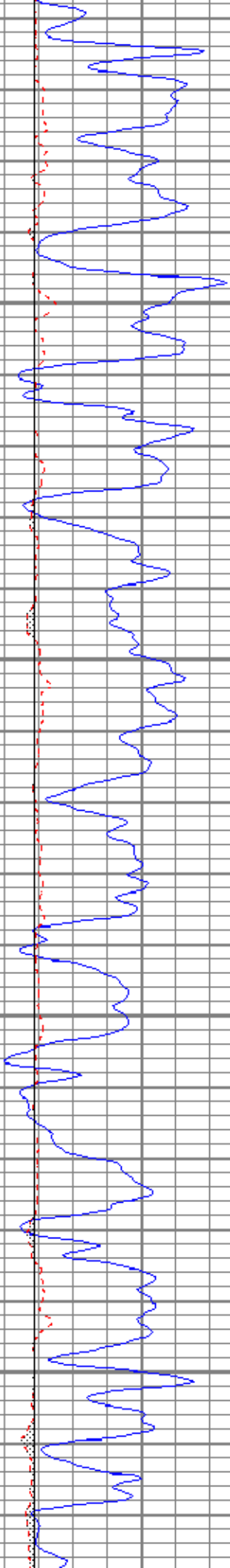
3450

3500

3550

3600



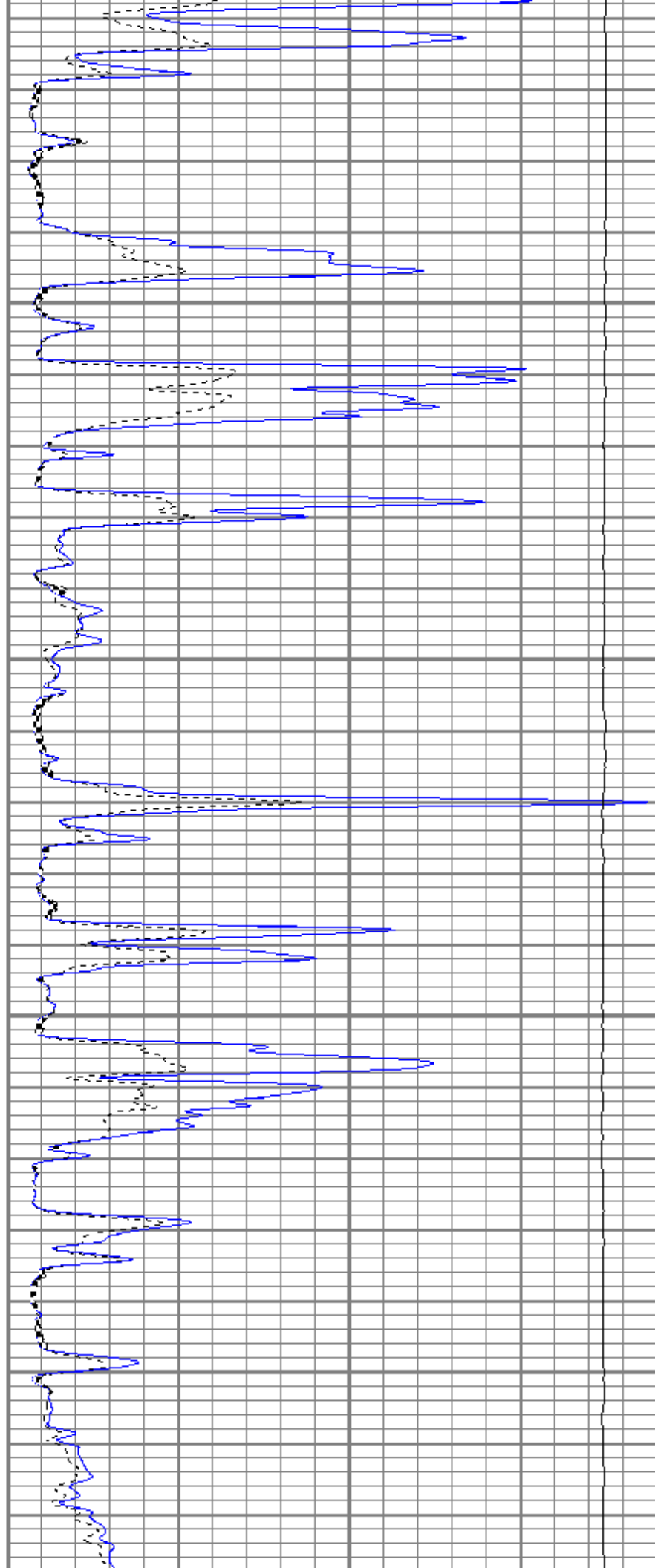


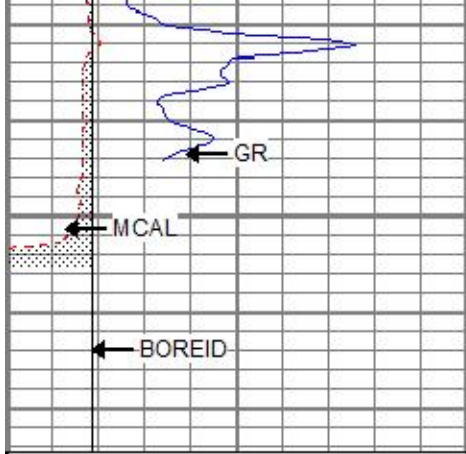
3650

3700

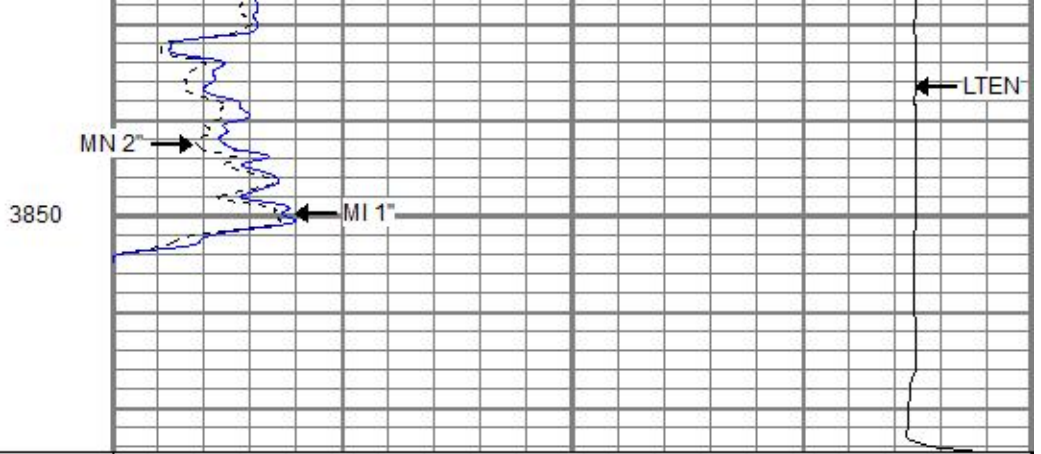
3750

3800





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



0	MN 2" (Ohm-m)	20
0	MI 1" (Ohm-m)	20
10000	LTEN (lb)	0

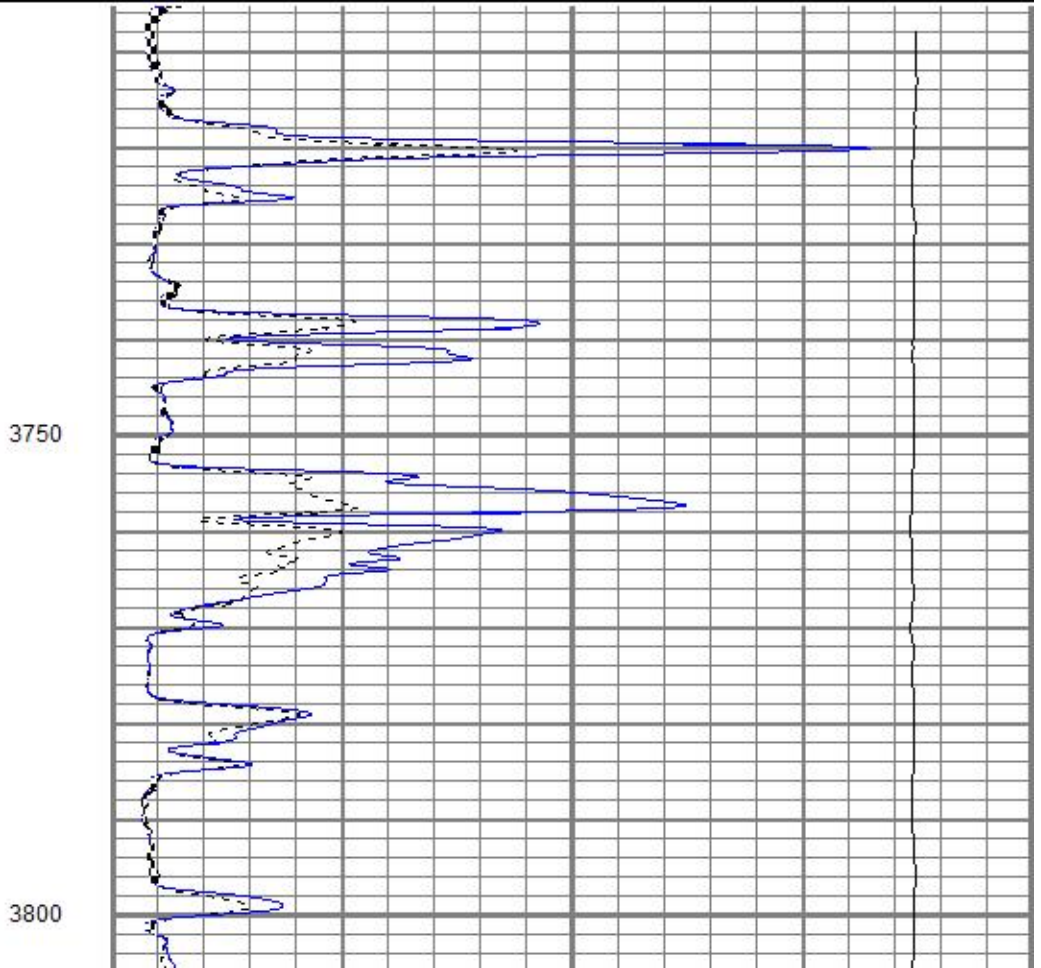
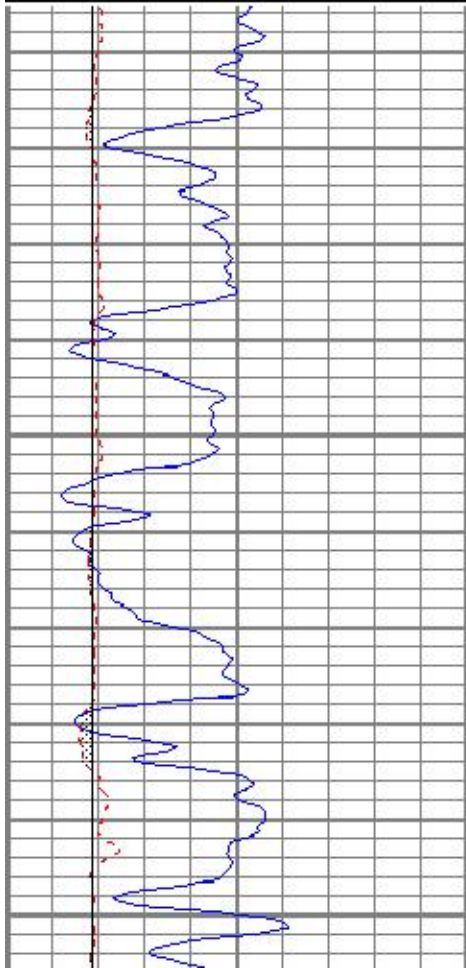


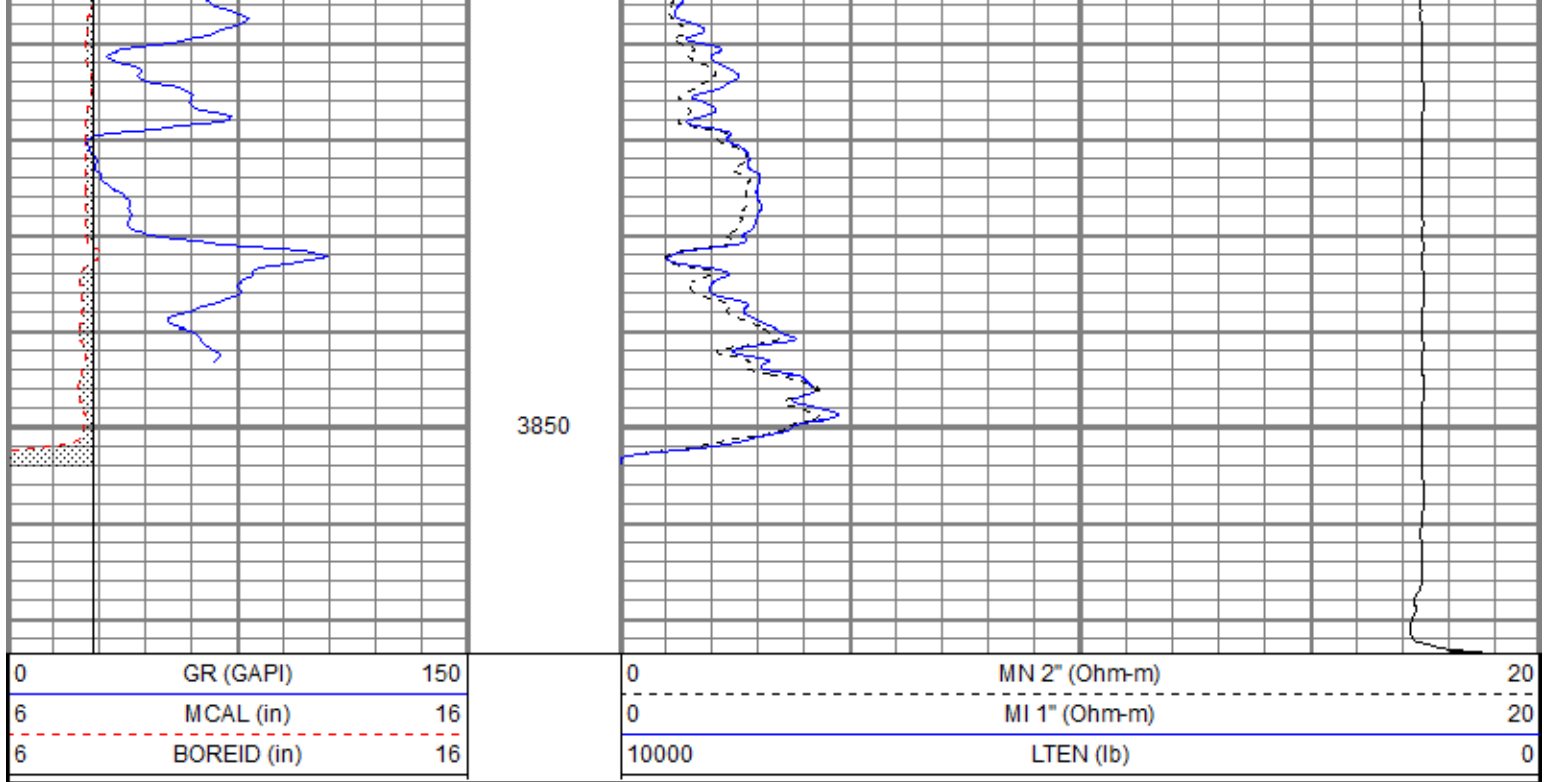
Repeat Pass

Database File pfdaneghansenfoundation#1-15oh.db
 Dataset Pathname pass3
 Presentation Format kml
 Dataset Creation Wed Apr 13 08:14:39 2016
 Charted by Depth in Feet scaled 1:240

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

0	MN 2" (Ohm-m)	20
0	MI 1" (Ohm-m)	20
10000	LTEN (lb)	0





Calibration Report

Database File pfdaneghansenfoundation#1-15oh.db
 Dataset Pathname pass3
 Dataset Creation Wed Apr 13 08:14:39 2016

Microlog Calibration Report

Serial-Model: 1600-Pengo
 Performed: Fri Mar 18 11:00:13 2016

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	0.0009	0.5911	V	0.0000	10.0000	Ohm-m	16.9426	-0.0146
Inverse	0.0037	0.7678	V	0.0000	7.0000	Ohm-m	9.1608	-0.0339
Caliper	1.4734	4.3558	V	6.7000	12.0000	in	1.8387	3.9908

Gamma Ray Calibration Report

Serial Number: 2001
 Tool Model: OH
 Performed: Thu Jan 21 09:36:03 2016

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.2400 GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	27.88		GR-OH (2001) 2001	3.56	3.25	40.00
			ML-Pengo (1600)	6.97	3.50	100.00

MCAL	21.05					
MI	21.05					
MN	21.05					
WVF4	13.79					
WVF3	12.79		SLT-G (101127) Sonic	15.71	3.50	250.00
WVF2	9.79					
WVF1	8.79					
			CENT-OHshort Open Hole short centralizer	4.04	3.50	50.00

Dataset: pfdaneghansenfoundation#1-15oh.db: field/well/run1/pass3
 Total length: 30.28 ft
 Total weight: 440.00 lb
 O.D.: 3.50 in



**16221 LEO CIRCLE
LEAVENWORTH, KS 66048
913 544 7527
KEVIN BAILEY**

COMPANY: Prairie Fire Petroleum : Doug Frickey KS#34418
WELL: Dane G. Hansen Foundation #1-15
FIELD: Wildcat UnNamed **COUNTY:** Norton **STATE:** Kansas
LOCATION: 545' FNL, 2090' FWL or NW/4 15-2S-21W

Interval Logged: 2500 **To:** 3875' **G.L.:** 2192 **K.B.:** 2197
Date Logged: 4/10/2016 **To:** 4/14/2016 **Spud Date:** 4/08/2016
Rig: White Knight Drilling KS#34743 **Unit No.:** #1
Loggers: GEMINI Wireline
Api No.: 15-137-20737--00-00
Filename: prfrdhsntrst1-15.mlw
Geologist: Kevin Bailey

Created By MainLog

Abbreviations:

NB...New Bit
CO...Circ Out
NR...No Returns
TG...Trip Gas
WOB...Wt on Bit
RPM...Rev/Min
SG...Survey Gas
DST...Drill Stem Test
DS...Directional Survey
CG...Connection gas
LAT...Logged After Trip
PP...Pump Pressure
SPM...Strokes/Min
DTG...Down Time Gas

Mud Data

WT..Weight
PH..Acidity
CHL...Chlorides
V..Viscosity
F..Filtrate
SC..Solids Content

Lithology Symbols:

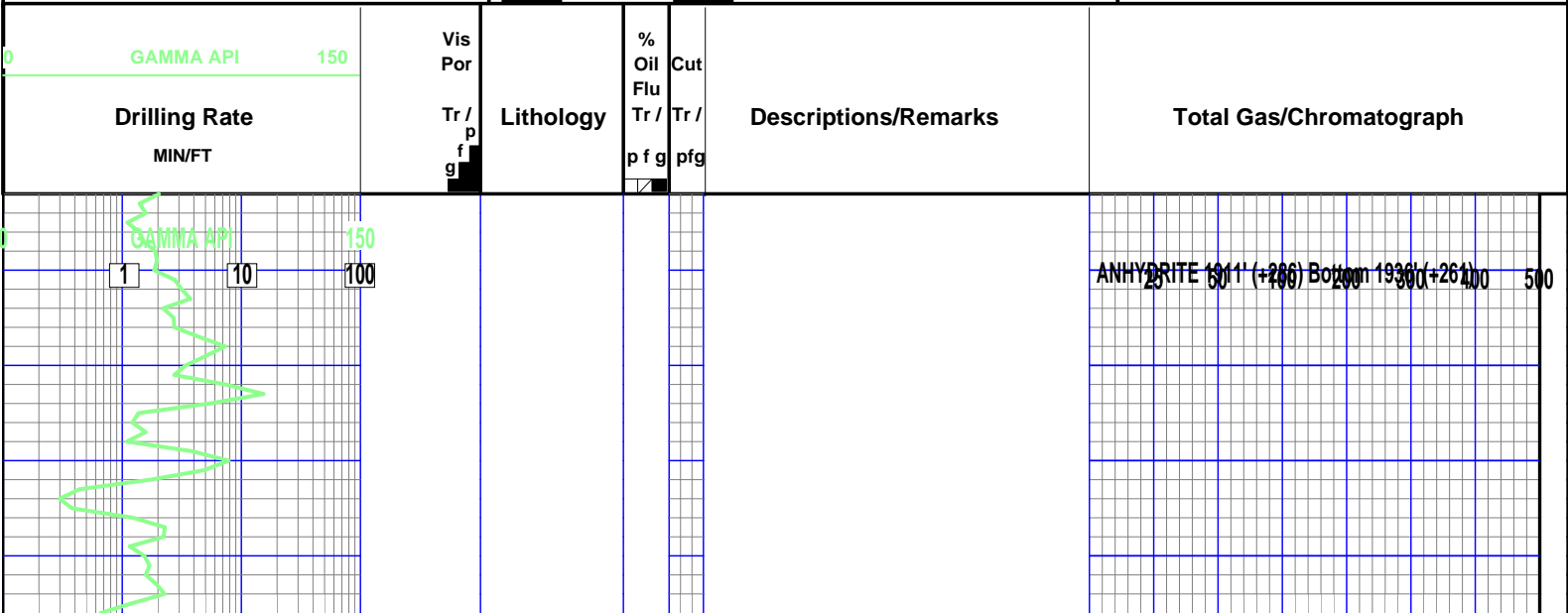
Anhydrite	Salt	Granite
Siltstone	Chert	Sandstone
Dolomite	Conglomerate	Limestone
Coal	Shale	Bentonite
Carb Shale	Granite Wash	Quartz Wash
Red Sh	Org Sh	Green Sh
Cust Sh1	Cust Sh2	Cust Sh3
Cust Sh4	Cust Sh5	Cust Sh6

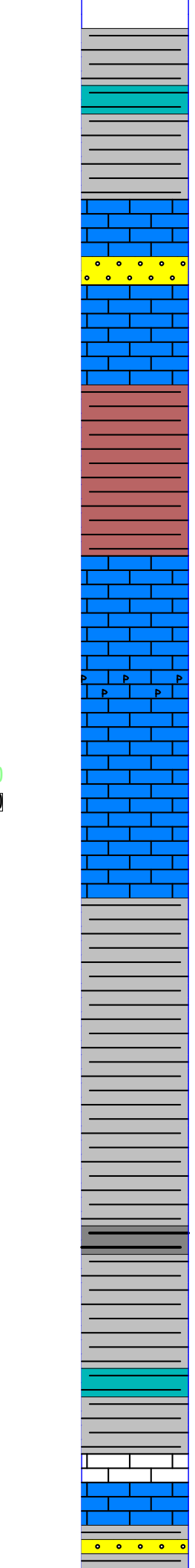
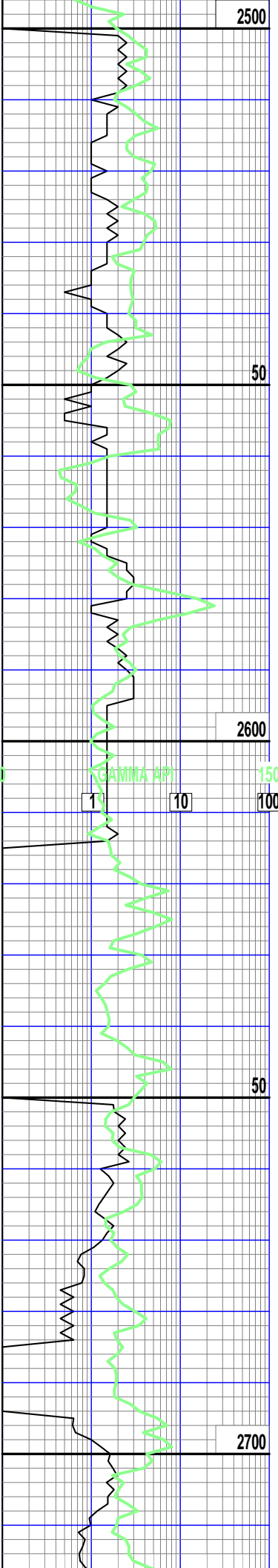
Gas Chromatograph Analysis:

HW ---
 C1 ---
 C2 ---
 C3 ---
 IC4 ---
 NC4 ---
 IC5 ---

Accessories

Glauconite Pyrite Fossils Oolites
 Fractures Cement





SH-SHLY-LS TN CRM SH-GRY GRN-BLU

AA

LS CRM SNDS CRM CLR

LS CRM TN TRC PYRTC

SH'S BRNWRD SFT MLKYRD

AA

AA

LS CRMTN CRM-MDXYLN HRD IN PRIS NVPRSTY

AA

LS CRM-DULLCRMWHT NVPRSTY

AA

SH GRY GRYBLU RDS

AA

POOR SAMPLES SH'S THRGH OUT

AA

SH'S GRY BLK INTBDD LS

AA

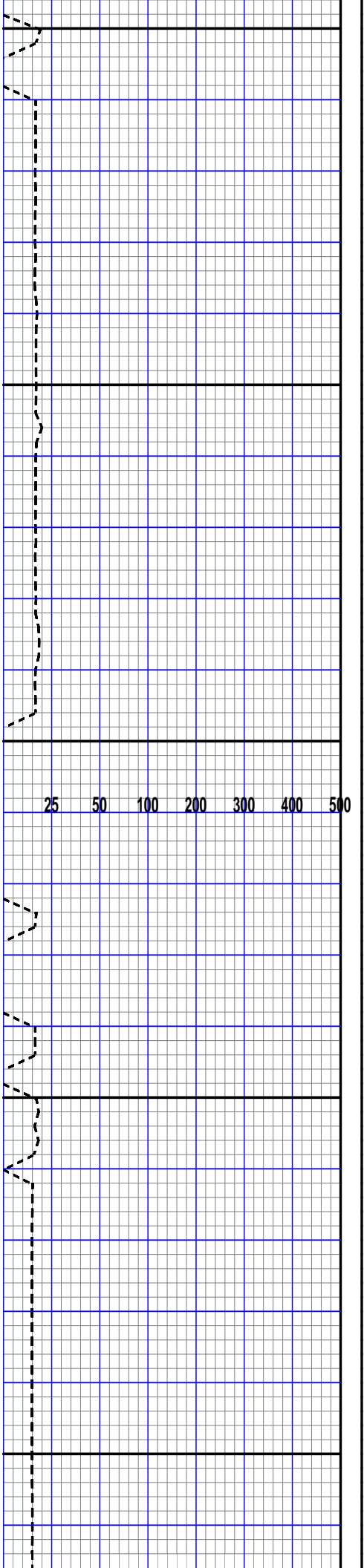
SH BLK GRY SFT GUMMY

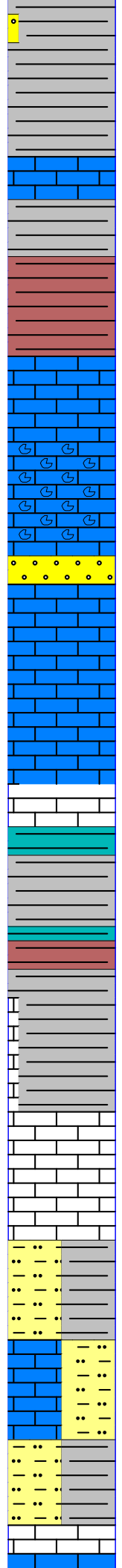
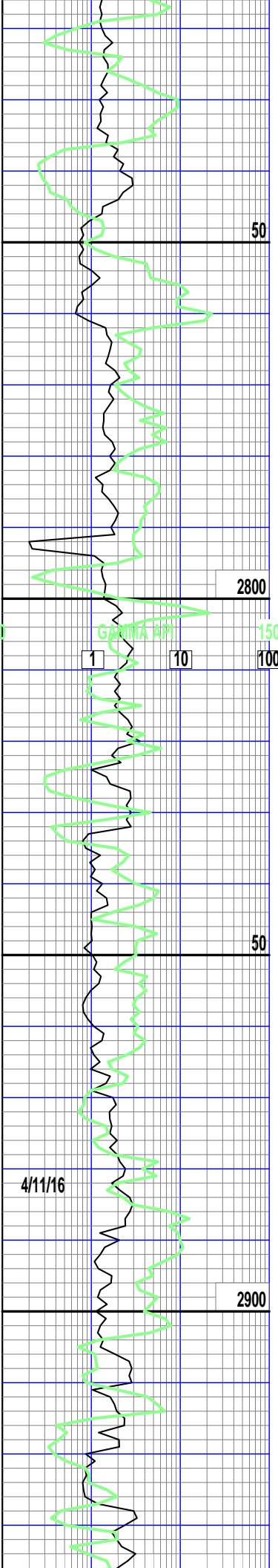
AA <GUMMY

SH'S GRY BLK GRYBLU SFT IN PARTS

AA BCMNG LS CHLKY GRY CRMGRY NVPSTY NO SHW

AA SH'LY W/ TRC SNDS





SH'S GRY DRKGRY TRC SND

AA

LS CRM SLGTLXYLN NVPST

AA W/ SH'S BRWNRD

AA

LS CRMYLW FNXYLN NVPRSTY

LS TN-BRWNXYLN CHLK TN
LS INPARTS TRC FSL

AA LS TNBRWNCHLY BRWNXYLN FSL REWRKD
TRC LS TN SLGHLV VGY
NO SHW/ODOR

AA TRC SS TN GLCNT SPCT
BLK FLAKS NO SHW ODOR

LS TN MDXYLN NVPRSTY NO
SHW/ODOR

AA

LS TN-BRWN CHLKY NVPSTY

AA SH GRY'S-GRYBLU SLTY
INPARTS

SH'S GRY'S/BLU SLTYSH
TNBRWN

AA CHLKY TNYLW

LS TNCRM CHLKY BRTL

AA

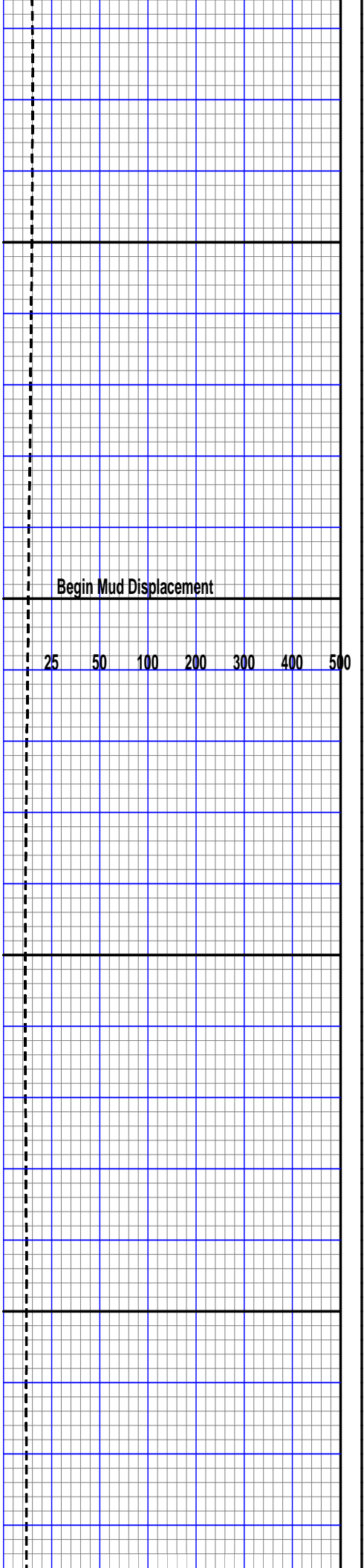
SHLY-SH'S GRY BLK BLU-
GRN

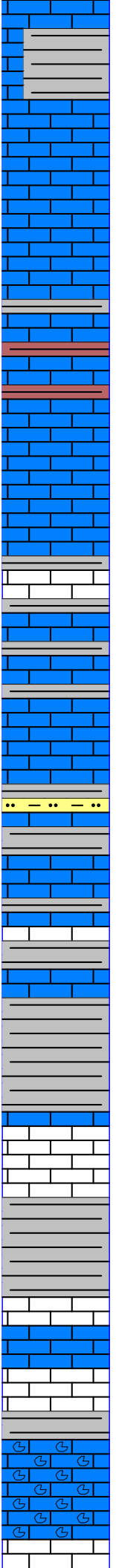
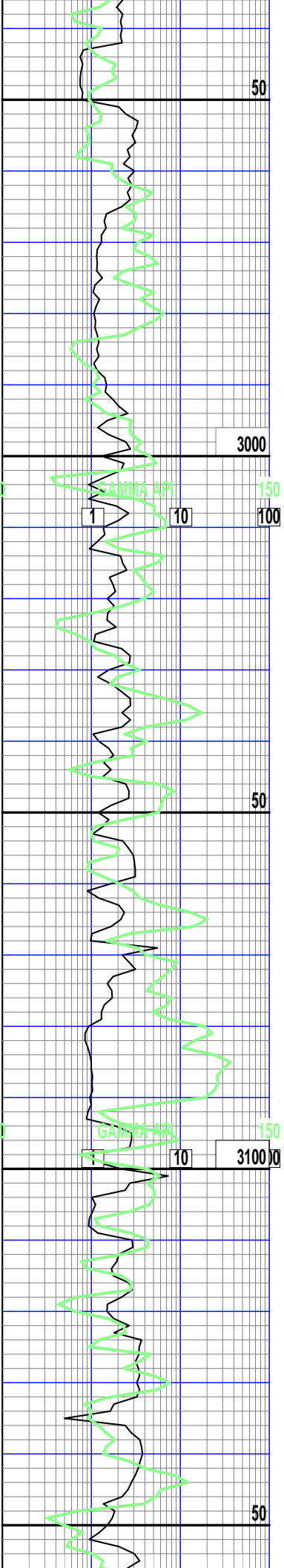
AA SLTY-LS TNCRM BRTL

SLTY-SH GRY TRC SNDS

AA< SNDS BECOMING CHLKY
SOFT MLKY LTGRY

LS TN-CRMYLW MDXYLN LM-





NT BRWNSTN NO SHW

LS-SHLY SFTBRTL MLKY

LS GRYXYLN HRD GRNY IN PARTS NO SHW

AA LS GRYMD-FNXYLN

AA

LS GRYMDXYLN SHLY INPRT

AA SH'S GRY SFT MLKY THRGHOUT NO ODOR/SHW SH'S GRY BRWN SFT

LS CRMLTTNXYLN NVPSTY

AA

SHLY LM-CHLKY MLKY LT-GRY

AA INTREDD SH-LS GRY'S CRMTN MLKY THRGHOUT

AA LS GRY BRTL CHLKY

AA W/INTBDD SH'S,SLTS SOFT CLY-SH SLUFF?

AA

SH'S GRY CHLKY MLKYGRY

AA

AA

LS CRMTN CHLKY INPARTS SH GRY SOFT MLKY

AA

SH DRKGRY LMNTD-BRTL

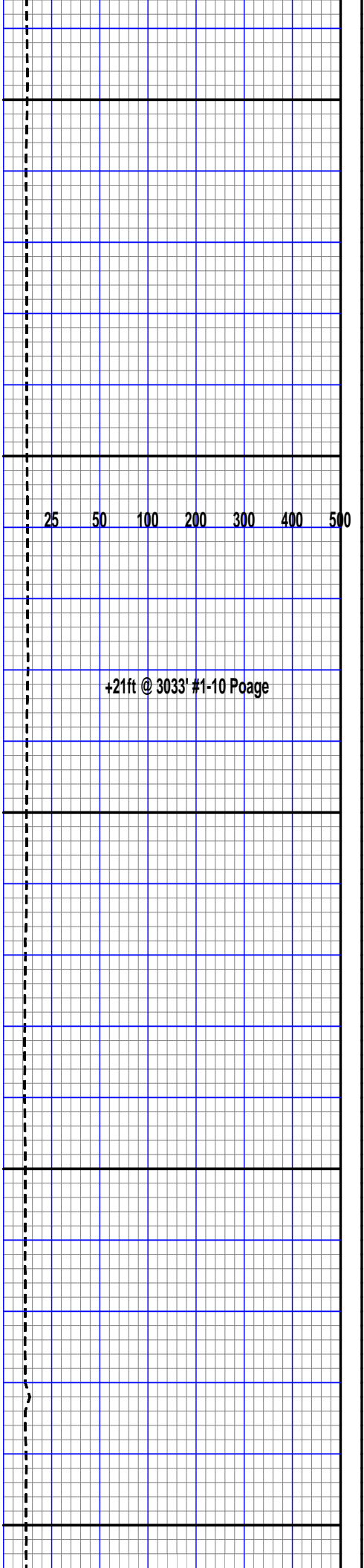
LS GRYSPEC-CRMGRY MLTC CHLKY INPARTS

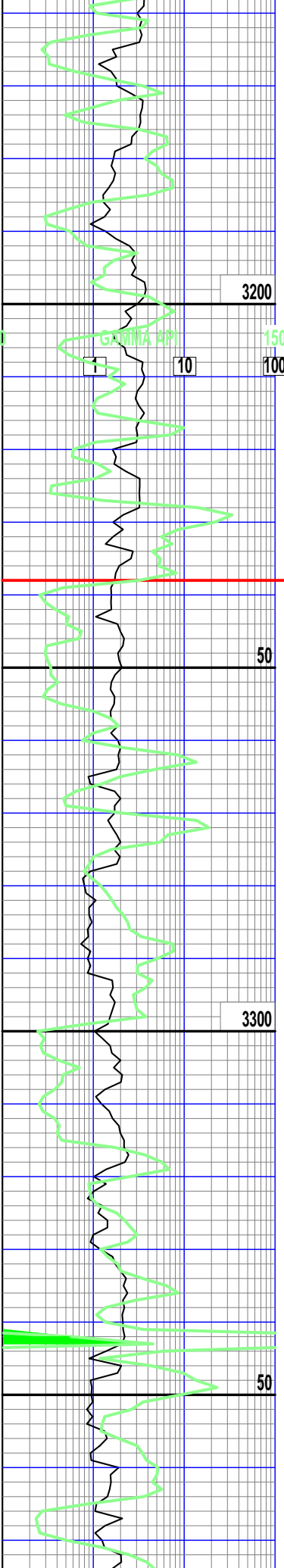
AA> CHLK TRC SH GRY

SH DRKGRY BRTL-SH

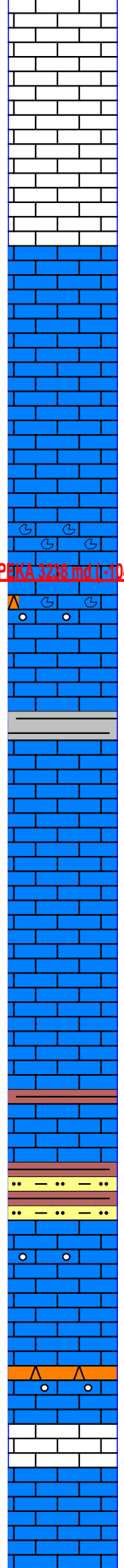
LS DRKGY FSLCRNDS CHRTY TRCINGRY LMS NO SHW/OD

LS GRYCRMGRY CHLKY IN LOWER PART

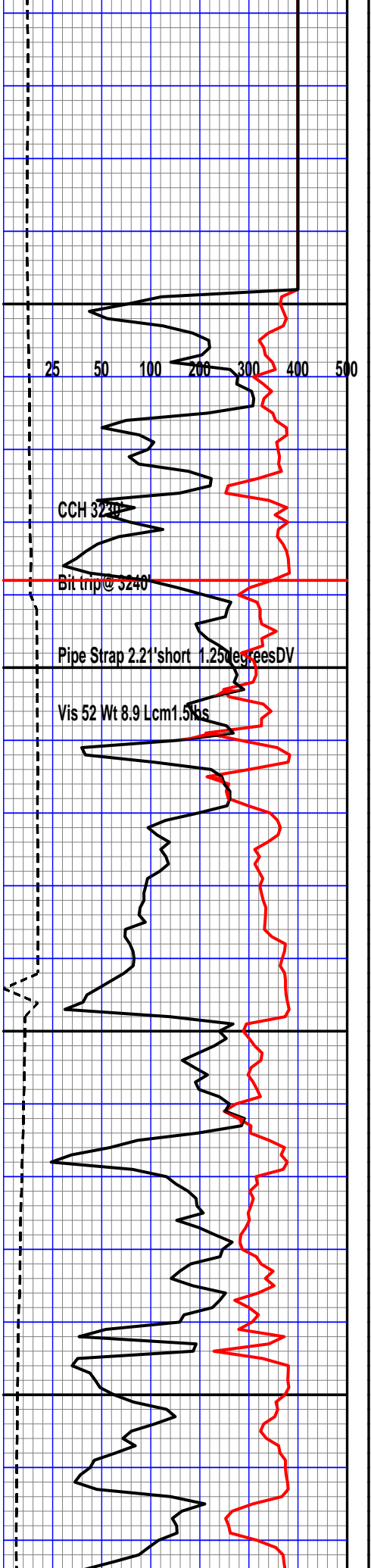


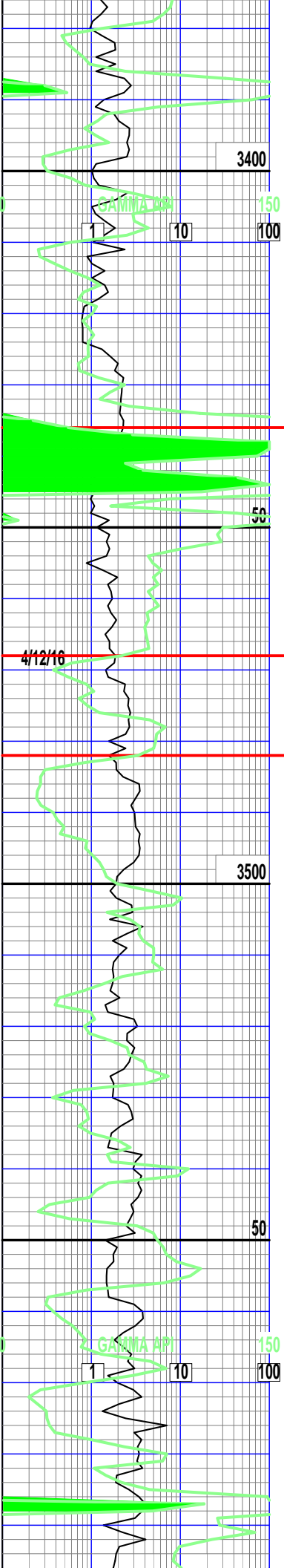


TOPEKA 3238 md (-1041 SS)



AA
 CHLKY LS CRMGRY MLKY
 AA
 AA LS CRM-LTGRY CHALKY
 LS LTGRY-CRMGRY BRTL
 LS CRMGRY CHLKY NVPRSTY
 NO SHW
 LS CRM-CRMWHTXYLN TRC-
 VGS FVPRSTY NO SHW
 LS CRM-CRMTN-TNVLTRW
 XYLN SOMEFSL INSLGLY
 CHRT LMS NVPRSTY
 LS CRM CRMYLW SLIGHTLY
 OOLTIC TRC VGS FRPRSTY
 NO SHW/ODOR
 AA
 AA SH GRY BLK LMNTD
 LS CRM-FXYLN TRC VGS W/
 TRC VPRSTY NO SHW/ODOR
 AA
 LS CRM-TNCRMXYLN BRTL
 TRC CHLKY NO SHW
 AA < CHLKY
 SH BRWNRD
 LS CRMXYLN BRTLE TRC SH
 SLTY BRWN NO SHW
 LS CRM-CRMYLW FNXYLN
 DENSE TRC OOLTIC NOSHW
 AA
 LS CRMXYLN TRC OOLIC W/
 TRC CHRT CRMWHT NO SHW
 AA BECMNG CHLKY BRTL
 MLKY
 LS CRMTN CHLKY INPRTS
 NO SHW
 LS CRM-TNCRM GRNYINPRTS
 NVPRSTY NO SHW





Heelmer 3436 md (-1239 SS)

Toronto 3468 md (-1271 SS)

Lansing 3487 md (-1285 SS)

A

B

C

D

E

F

G

H

AA BECMNG SHLY GRYS BLK

SH BLK

SH MULTI COLRD RDGRNGRY

LS CRMWHT FVXYLN DENSE
NVPSTY NO SHW

AA BECMNG BRTL INLOWR
NO SHW

LS CRMXYLN TRC OOLTC NO
SHW

SH BLK CARBO LMNTD

SHLY-LS GRYS

AA

SH'S GRYS BRWN

AA CHLKY LS CRM-CRMTN
NO SHW

LS CRMXYLN BRTL TO MD-
HRD NO SHW

LS CRMXYLN DENSE HARD
NVPSTY NO SHW

AA LS CRM SOME LTGRY W/
MCRFSL NO SHW

LS CRM-CRMYLW FXYLN BR-
TL INLOWER NO SHW

AA SH RDBRW LTGRN

LS CRMYLW XYLN MDHRD NO
SHW

AA CHRT TNCRM NVPSTY
NO SHW

LS LTRCMFVXYLN MCRFSL

SH'S GRYS BRWN MLKY
THRGHOUT CHLKY IN PRTS
NO SHW

LS CRMTNGRYXYLN HRD NO
SHW

SH GRYS SOFT CHLKY NOSHW

LS GRYS-TN FXYLN CHLKY
NO SHW

SH LTGRY W/INTRED CHLK/
LS MLKY NO SHW

LS CRMLTGRYXYLN CHRTS
IRONSTND TNCRM GRYS NO
SHWS

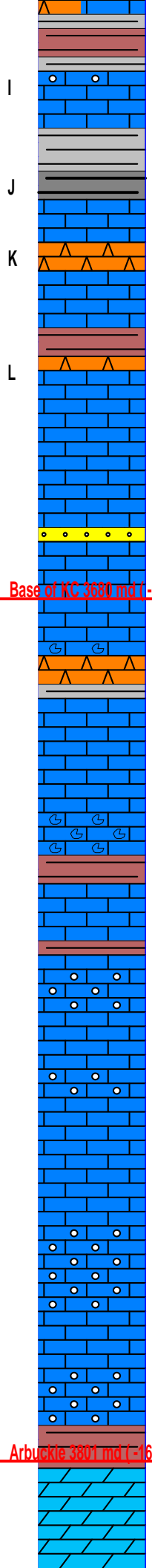
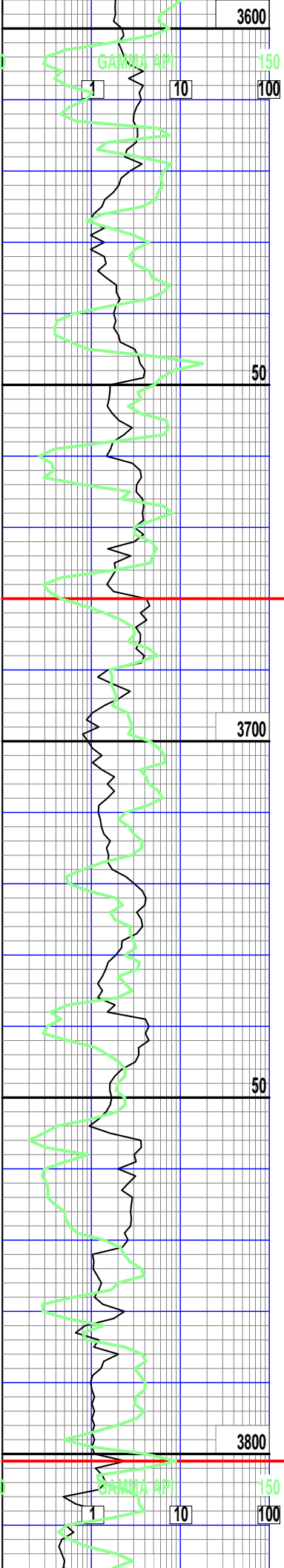
25vis513019.0 lcr1# 200 300 400 500

DST#1 3412-3482' Plattmouth/Toronto

vis47419.2 lcr1#

DST#2 3465-3495'

DST#3 3570-3590'



AA BCMNG SH'S GRY GRNRD

LS CRM-CRMYLW TRCOOLTIC NVPRSTY NO SHW

SH'S GRY LTRDBRN SFT IN PRTS MLKY BRWNRD NO SHW

AA SH BLK

AA LS CRMXYLNFSL W/CHRT LTIORNG-CRMORNG NO SHW VFNTODOR NVFO

SH BRWNRD BRTL SH LTGRY SOFT TRC CHRT TNCRM NO SHW

LS CRM-WHTMDXYLN BRTL-CRMBLE NVPRSTY NO SHW

LS CRM-MDXYLN DENSE HRD NVPRSTY NO SHW

LS CRM-VLTN XYLN W/ TRC SS CRMGY WLLCMNTD PRVPRSTY NO SHW

AA

LS CRMXYLN CHRTFSL PYRT P/NVPRSTY NO SHW

SH LTBRWN W/ LS CRM-CRMYLW VFNTODOR DEADO STN NVFO

LS CRMOXIDRDMROON MDXYLN OXIDID STND THRGHOUT NO SHW NO ODOR

LS CRM-CRMYLW XYLN BRTL TO CRMBLE NVPRSTY NOSH

AA LS CRMGYFSL BRTL IN PRTS NVPRSTY NO SHW

SH'S BRWNRD GRY MLKY-BRWN THRGHOUT NO SHW

AA LS CRMXYLNFSL NO SHW

SH BRWNRD SOFT MLKY LS CRMOOLTIC FRVPRSTY NO SHW CHLKY BRWNLTRD MLKY NO SHW/ODOR

AA LOTA SFT SH BRWNRD=SLUFF? LS CRMBRTL TRC

LS CRMWHTXYLN OOLTICIN-PRTS FSL TRC CHRTY NO SHW NO ODOR

AA<OOLTIC

LS GRYS CRM FSL NO SHW NO ODOR

AA LS CRMMDXYLN NVPRSTY NO SHW

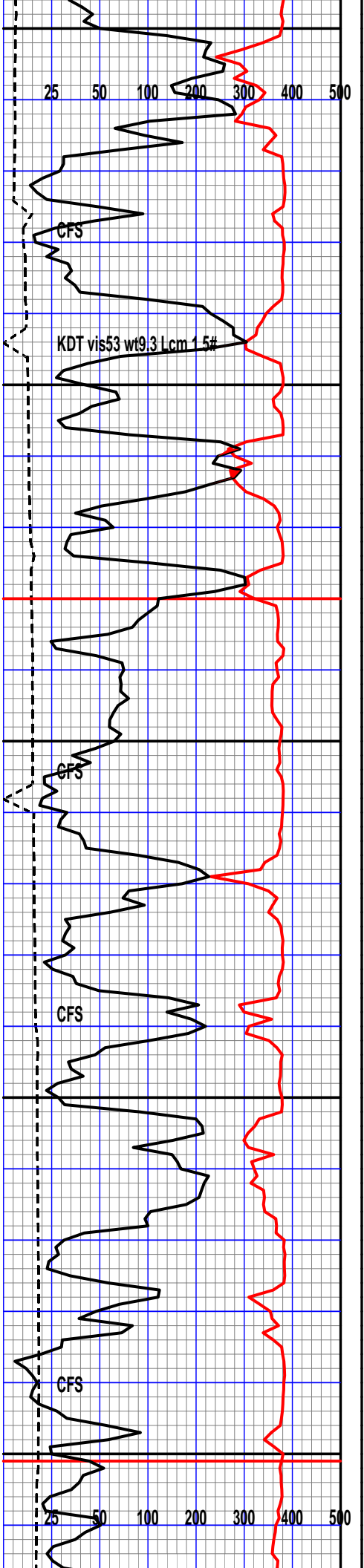
LS CRMXYLN TRC OOLTIC NO SHW SH BRWNRD ? SLUFF

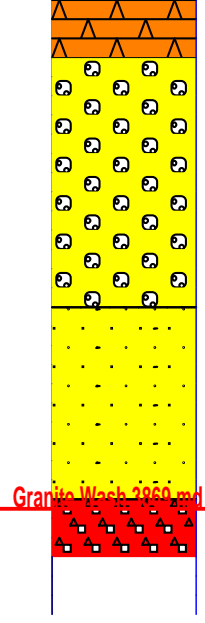
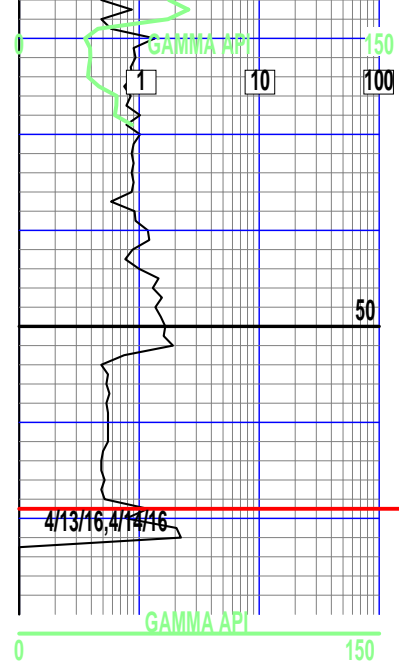
AA TRCLSDOL CRMXYLN NO SHW

LS CRMOOLTIC-XYLN DENSE NVPRSTY NO SHW NO ODOR SH RDBRWN SOFTGMMY MLKY RDBRWN NO SHW

DOLO CRM-CRMYLW FXYLN DENSE HRD NVPRSTY NO SHW/ODOR

AA SH BRWRD-YELWBRWN IN PRTS SOFT FSLSH NO SHW





AA CHRT CRMWHT LYER NO SHW RED STND THRGHOUT

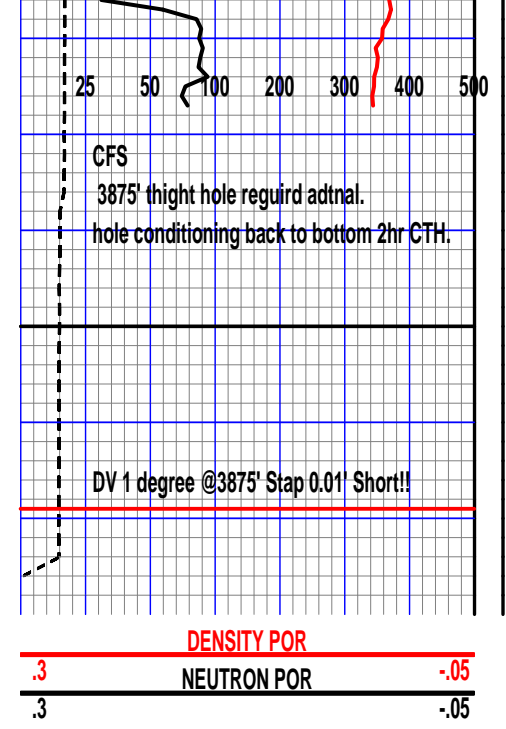
AA SNDS SLTYCLAY-SH SND IS CONGLOMERT SH,CLAY RED STAIN THGHOUT NOSHW

AA NO SHW NO ODOR

SS BRWNRD GLCNIT GRNS WELL CEMNTED PRVPRSTY NO SHW NO ODOR

CH 2hrs at RTD for E-log.
RTD 3875'

Granite Wash 2860 md (-1672 S) CH 2hrs at RTD for E-log.
RTD 3875'





QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 4/8/2016
 Invoice # 1535

P.O.#:
 Due Date: 5/8/2016
 Division: Russell

Invoice

Contact:

Address/Job Location:

Prairie Fire Petroleum LLC
P.O. Box 38
Norton KS 67654-0038

Reference:

DG HANSEN FOUNDATION 1-15 SEC 15-2

Description of Work:

SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 424.29	No				
Common-Class A	120	\$ 1,420.96	Yes				
Calcium Chloride	7	\$ 279.63	Yes				
POZ Mix-Standard	30	\$ 149.80	Yes				
Pump Truck Mileage-Job to Nearest Camp	44	\$ 141.24	No				
Bulk Truck Matl-Material Service Charge	160	\$ 114.13	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	44	\$ 109.85	No				
Premium Gel (Bentonite)	3	\$ 62.06	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 2,701.96

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (67.55)

SubTotal for Taxable Items: \$ 1,864.64

SubTotal for Non-Taxable Items: \$ 769.78

Total: \$ 2,634.41

Tax: \$ 135.19

7.25% Norton County Sales Tax

Amount Due: \$ 2,769.60

Applied Payments:

Balance Due: \$ 2,769.60

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)

This does not include any applicable taxes unless it is listed.

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pd 4-13-16
#3182

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1535

Date	4/8/10	Sec.	15	Twp.	2	Range	21	County	Norton	State	Ks	On Location		Finish	3:15 p								
Lease								Well No.		Owner													
DG Hansen Foundata								1-15		phillipsburg W to E-12 Rd 4 N Rd I													
Contractor								To Quality Oilwell Cementing, Inc.															
White Knight Drilling								You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.															
Type Job								Charge To															
Surface Job								Prairie Fire Petroleum LLC															
Hole Size				T.D.				Street				City				State							
12 1/4				212																			
Csg.				Depth				Street				City				State							
8 5/8				210.71																			
Tbg. Size				Depth				City				State											
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.															
Cement Left in Csg.				Shoe Joint				Cement Amount Ordered				150 ⁵⁰ / ₂₀ 392											
15'																							
Meas Line				Displace				150 Co → 3+2															
				12.5 661																			
EQUIPMENT												Common				120							
Pumptrk												No.				Cementer Helper				Poz. Mix			
																Share				30			
Bulktrk												No.				Driver				Gel.			
																Rick				3			
Bulktrk												No.				Driver				Calcium			
																Doug				7			
JOB SERVICES & REMARKS												Hulls											
Remarks:												Salt											
Rat Hole												Flowseal											
Mouse Hole												Kol-Seal											
Centralizers												Mud CLR 48											
Baskets												CFL-117 or CD110 CAF 38											
D/V or Port Collar												Sand											
												Handling				160							
												Mileage											
Float Equipment												Guide Shoe											
												Centralizer											
												Baskets											
												AFU Inserts											
												Float Shoe											
												Latch Down											
												Pumptrk Charge				Surface							
												Mileage				44							
												Tax											
												Discount											
X Signature												Terry Austin								Total Charge			

Cement Circulated

Quality Oilwell Cementing

John K