



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1189978
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: _____

1189978

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	Arpin 'A' 1-6
Doc ID	1189978

All Electric Logs Run

sonic
microresisitivity
porosity log
dual induction

Form	ACO1 - Well Completion
Operator	Carmen Schmitt, Inc.
Well Name	Arpin 'A' 1-6
Doc ID	1189978

Tops

Name	Top	Datum
Anhydrite	1637	
Topeka	3112	
Heebner shale	3311	
Toronto	3338	
Lansing	3352	
Lansing H	3512	
Kansas City	3577	
Arbuckle	3697	



DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530-0047

ATTN: Dave Goldak

Arpin A #1-6

6-9s-20w Rooks,KS

Start Date: 2014.02.12 @ 21:00:45

End Date: 2014.02.13 @ 03:03:15

Job Ticket #: 53679 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.02.18 @ 15:47:22



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530-0047
ATTN: Dave Goldak

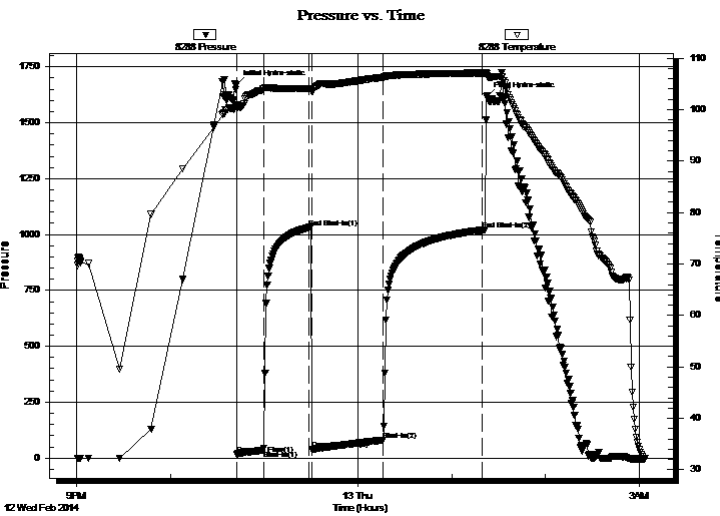
6-9s-20w Rooks,KS
Arpin A #1-6
Job Ticket: 53679 **DST#: 1**
Test Start: 2014.02.12 @ 21:00:45

GENERAL INFORMATION:

Formation: **Oread**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:42:45
Time Test Ended: 03:03:15
Interval: **3306.00 ft (KB) To 3316.00 ft (KB) (TVD)**
Total Depth: 3316.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor
Test Type: Conventional Bottom Hole (Initial)
Tester: Stuart Stover
Unit No: 44
Reference Elevations: 2132.00 ft (KB)
2130.00 ft (CF)
KB to GR/CF: 2.00 ft

Serial #: 8288 Inside
Press@RunDepth: 80.79 psig @ 3307.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.02.12 End Date: 2014.02.13 Last Calib.: 2014.02.13
Start Time: 21:00:47 End Time: 03:03:15 Time On Btm: 2014.02.12 @ 22:42:35
Time Off Btm: 2014.02.13 @ 01:22:15

TEST COMMENT: IFP: Surface blow to 1" blow
FFP: 1/2" blow to 1 1/2" blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1669.62	100.98	Initial Hydro-static
1	17.71	100.32	Open To Flow (1)
17	35.74	103.98	Shut-In(1)
46	1031.45	104.05	End Shut-In(1)
48	39.04	103.55	Open To Flow (2)
94	80.79	106.30	Shut-In(2)
157	1019.85	107.11	End Shut-In(2)
160	1617.72	107.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mdy Wtr	0.59

Gas Rates

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



DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530-0047
 ATTN: Dave Goldak

6-9s-20w Rooks,KS
Arpin A #1-6
 Job Ticket: 53679 **DST#: 1**
 Test Start: 2014.02.12 @ 21:00:45

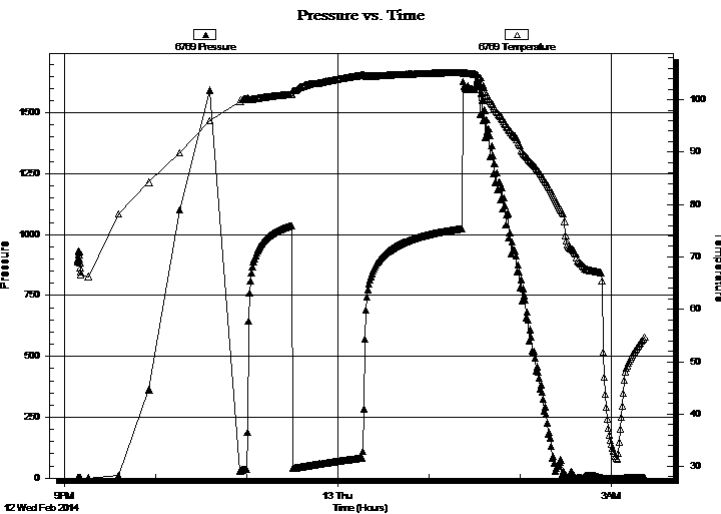
GENERAL INFORMATION:

Formation: **Oread**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:42:45
 Time Test Ended: 03:03:15
Interval: 3306.00 ft (KB) To 3316.00 ft (KB) (TVD)
 Total Depth: 3316.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Stuart Stover
 Unit No: 44
 Reference Elevations: 2132.00 ft (KB)
 2130.00 ft (CF)
 KB to GR/CF: 2.00 ft

Serial #: 6769

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.12 End Date: 2014.02.13 Last Calib.: 2014.02.13
 Start Time: 21:08:39 End Time: 03:21:56 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP: Surface blow to 1" blow
 FFP: 1/2" blow to 1 1/2" blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mdy Wtr	0.59

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

6-9s-20w Rooks,KS

PO Box 47
Great Bend, KS 67530-0047

Arpin A #1-6

Job Ticket: 53679

DST#: 1

ATTN: Dave Goldak

Test Start: 2014.02.12 @ 21:00:45

Tool Information

Drill Pipe:	Length: 3044.00 ft	Diameter: 3.80 inches	Volume: 42.70 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 43.93 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3306.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3284.00	
Hydraulic tool	5.00			3289.00	
Jars	5.00			3294.00	
Safety Joint	3.00			3297.00	
Packer	5.00			3302.00	27.00 Bottom Of Top Packer
Packer	4.00			3306.00	
Stubb	1.00			3307.00	
Recorder	0.00	8288	Inside	3307.00	
Recorder	0.00	8521	Outside	3307.00	
Perforations	5.00			3312.00	
Bullnose	4.00			3316.00	10.00 Bottom Packers & Anchor

Total Tool Length: 37.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530-0047
ATTN: Dave Goldak

6-9s-20w Rooks,KS
Arpin A #1-6
Job Ticket: 53679 **DST#: 1**
Test Start: 2014.02.12 @ 21:00:45

Mud and Cushion Information

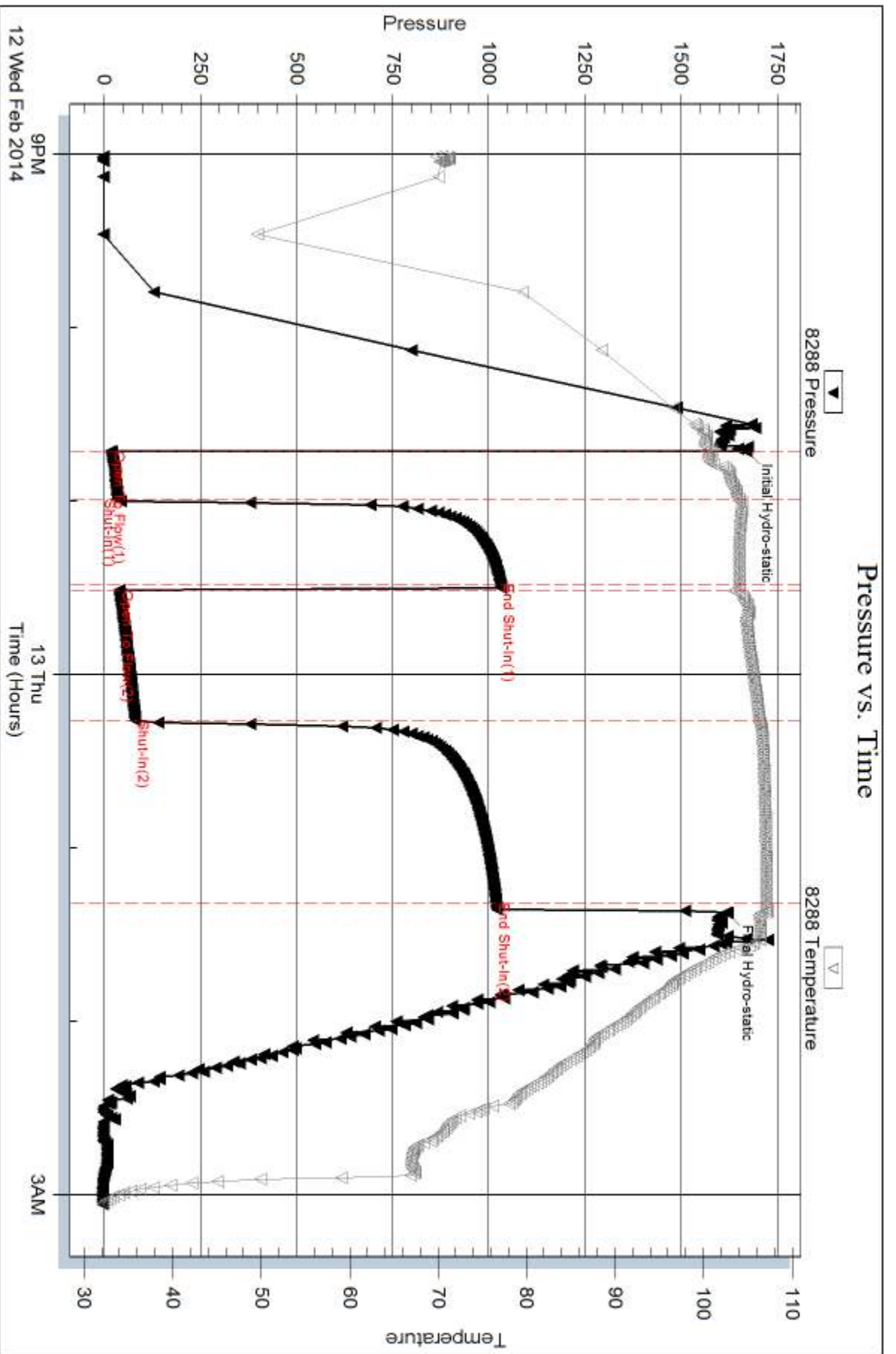
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	38000 ppm
Viscosity: 44.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.35 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1400.00 ppm			
Filter Cake: inches			

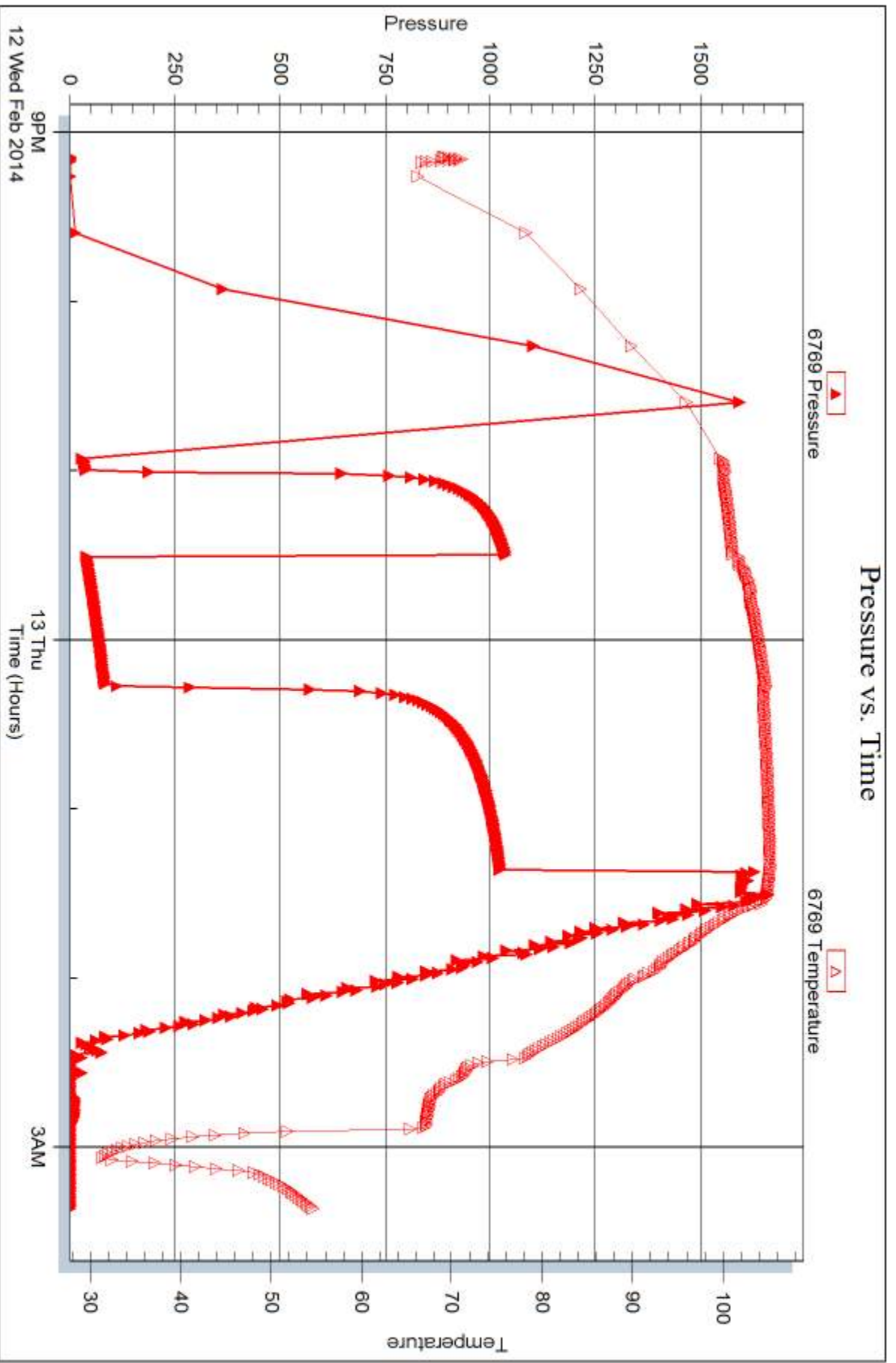
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Mdy Wtr	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: API RW .17 @ 73 deg.







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530-0047

ATTN: Dave Goldak

Arpin A #1-6

6-9s-20w Rooks,KS

Start Date: 2014.02.13 @ 16:14:27

End Date: 2014.02.13 @ 22:15:27

Job Ticket #: 53680 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.02.18 @ 15:46:51



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530-0047
 ATTN: Dave Goldak

6-9s-20w Rooks,KS
Arpin A #1-6
 Job Ticket: 53680 **DST#: 2**
 Test Start: 2014.02.13 @ 16:14:27

GENERAL INFORMATION:

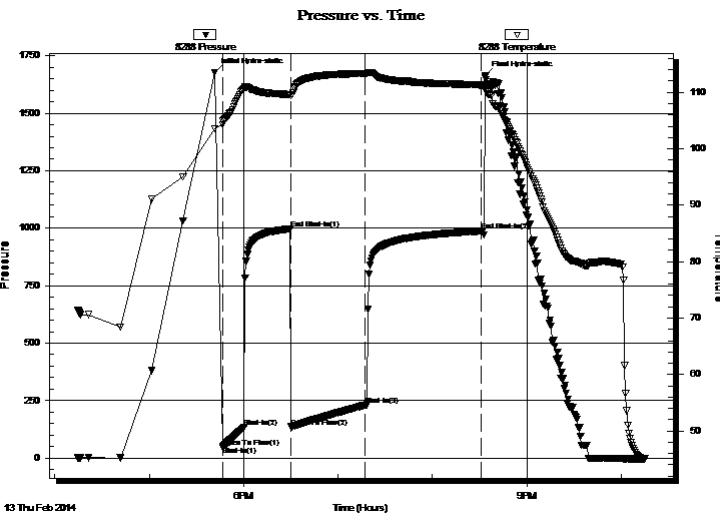
Formation: **LKC C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:46:37
 Time Test Ended: 22:15:27
 Interval: **3406.00 ft (KB) To 3432.00 ft (KB) (TVD)**
 Total Depth: 3432.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Stuart Stover
 Unit No: 44
 Reference Elevations: 2132.00 ft (KB)
 2130.00 ft (CF)
 KB to GR/CF: 2.00 ft

Serial #: 8288

Inside

Press@RunDepth: 230.20 psig @ 3407.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.13 End Date: 2014.02.13 Last Calib.: 2014.02.13
 Start Time: 16:14:29 End Time: 22:15:27 Time On Btm: 2014.02.13 @ 17:41:27
 Time Off Btm: 2014.02.13 @ 20:33:47

TEST COMMENT: IFP: 1/2" blow increasing to 8"
 FFP: Surface blow increasing to 6" blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.40	103.56	Initial Hydro-static
6	46.81	104.30	Open To Flow (1)
6	50.91	104.88	Shut-In(1)
19	133.60	110.63	Shut-In(2)
49	997.59	109.57	End Shut-In(1)
49	136.07	109.35	Open To Flow (2)
96	230.20	113.32	Shut-In(3)
170	987.93	111.28	End Shut-In(2)
173	1664.69	110.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
420.00	Mdy w tr 2% mud 98% w tr	3.61

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Carmen Schmitt, Inc.

6-9s-20w Rooks,KS

PO Box 47
Great Bend, KS 67530-0047

Arpin A #1-6

Job Ticket: 53680 **DST#: 2**

ATTN: Dave Goldak

Test Start: 2014.02.13 @ 16:14:27

GENERAL INFORMATION:

Formation: **LKC C**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 17:46:37

Time Test Ended: 22:15:27

Test Type: Conventional Bottom Hole (Reset)

Tester: Stuart Stover

Unit No: 44

Interval: 3406.00 ft (KB) To 3432.00 ft (KB) (TVD)

Total Depth: 3432.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2132.00 ft (KB)

2130.00 ft (CF)

KB to GR/CF: 2.00 ft

Serial #: 6769

Press@RunDepth: **psig @ ft (KB)**

Start Date: 2014.02.13 End Date: 2014.02.13

Start Time: 16:21:45 End Time: 22:53:32

Capacity: 8000.00 psig

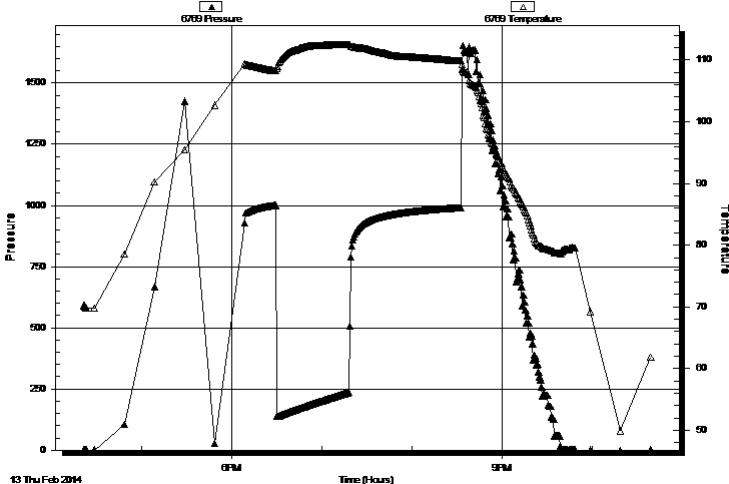
Last Calib.: 2014.02.13

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP: 1/2" blow increasing to 8"
FFP: Surface blow increasing to 6" blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
420.00	Mdy w tr 2% mud 98% w tr	3.61

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

6-9s-20w Rooks,KS

PO Box 47
Great Bend, KS 67530-0047

Arpin A #1-6

Job Ticket: 53680

DST#: 2

ATTN: Dave Goldak

Test Start: 2014.02.13 @ 16:14:27

Tool Information

Drill Pipe:	Length: 3160.00 ft	Diameter: 3.80 inches	Volume: 44.33 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 45.56 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3406.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	53.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3384.00	
Hydraulic tool	5.00			3389.00	
Jars	5.00			3394.00	
Safety Joint	3.00			3397.00	
Packer	5.00			3402.00	27.00 Bottom Of Top Packer
Packer	4.00			3406.00	
Stubb	1.00			3407.00	
Recorder	0.00	8288	Inside	3407.00	
Recorder	0.00	8521	Outside	3407.00	
Perforations	21.00			3428.00	
Bullnose	4.00			3432.00	26.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

6-9s-20w Rooks,KS

PO Box 47
Great Bend, KS 67530-0047

Arpin A #1-6

Job Ticket: 53680

DST#: 2

ATTN: Dave Goldak

Test Start: 2014.02.13 @ 16:14:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

85000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
420.00	Mdy w tr 2% mud 98% w tr	3.614

Total Length: 420.00 ft Total Volume: 3.614 bbl

Num Fluid Samples: 0

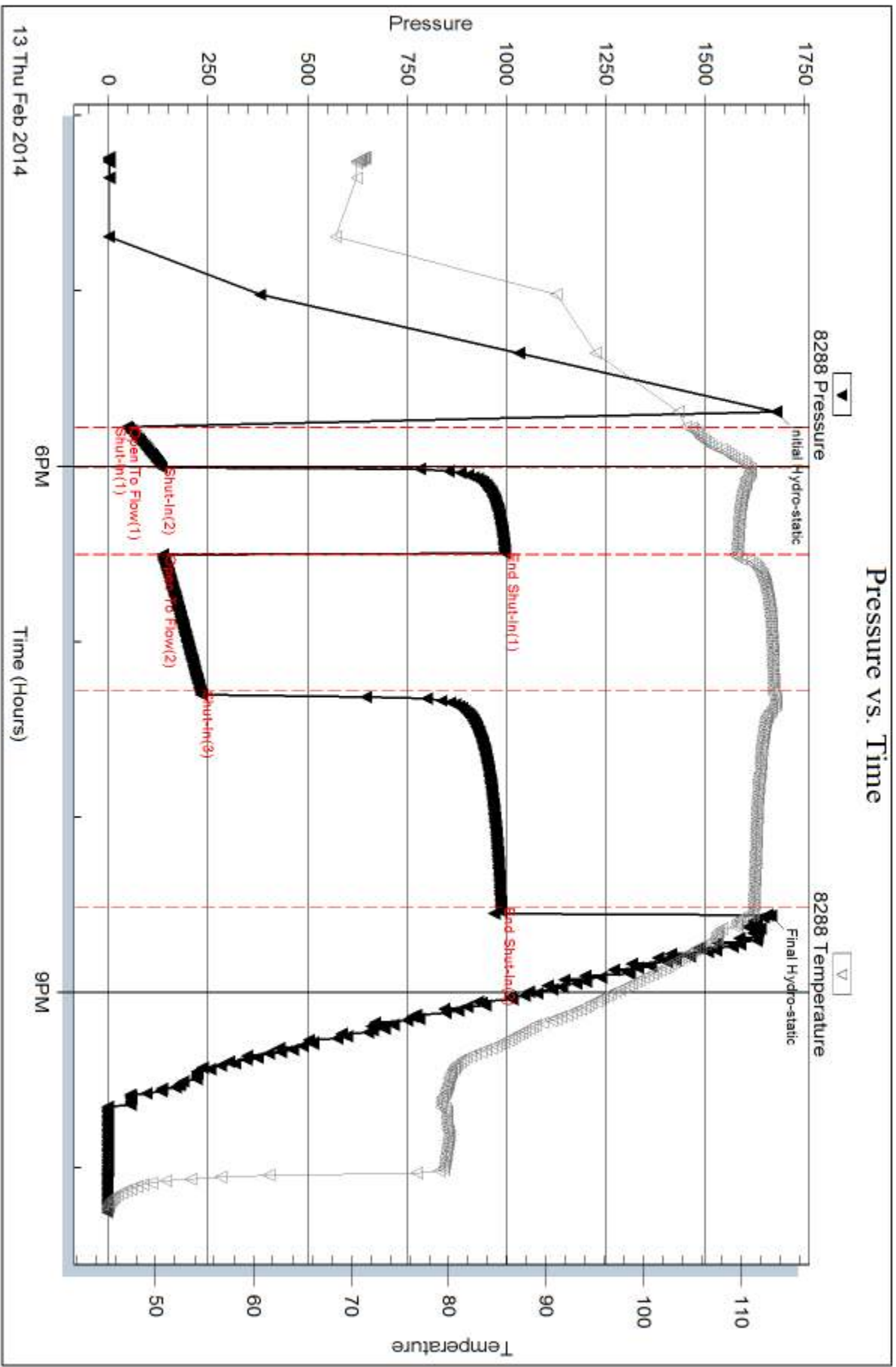
Num Gas Bombs: 0

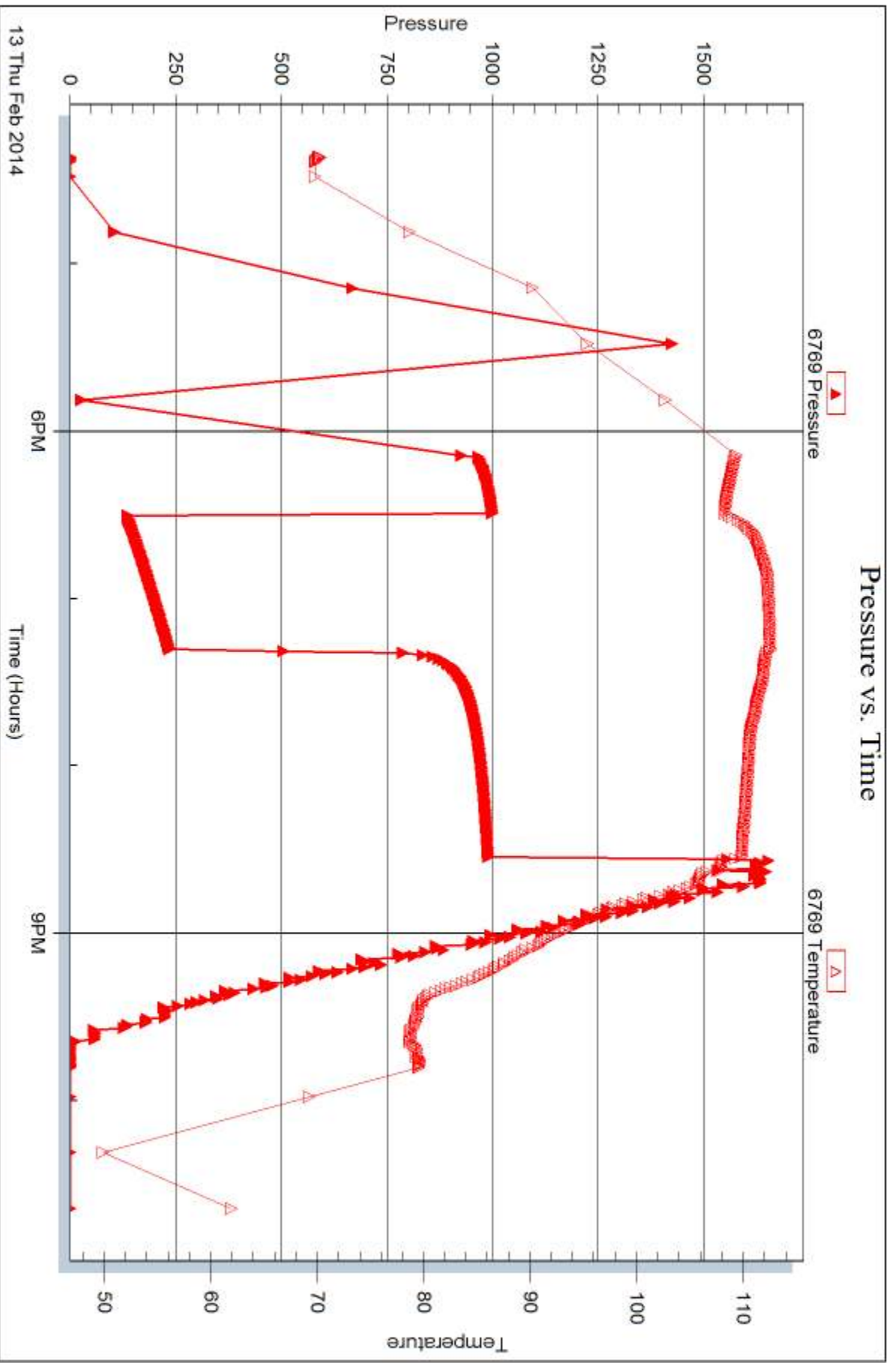
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API RW. 0.13@ 49 deg.







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530-0047

ATTN: Dave Goldak

Arpin A #1-6

6-9s-20w Rooks,KS

Start Date: 2014.02.14 @ 06:59:09

End Date: 2014.02.14 @ 12:59:39

Job Ticket #: 53618 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.02.18 @ 15:46:24



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530-0047
 ATTN: Dave Goldak

6-9s-20w Rooks,KS
Arpin A #1-6
 Job Ticket: 53618 **DST#: 3**
 Test Start: 2014.02.14 @ 06:59:09

GENERAL INFORMATION:

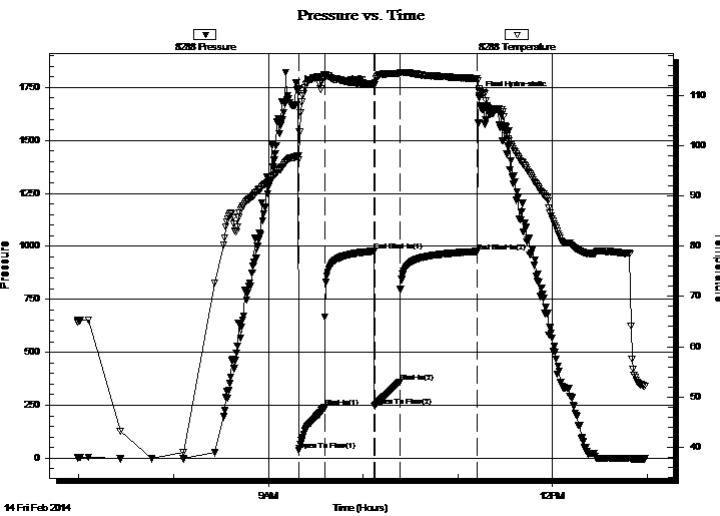
Formation: **LKC F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:19:09
 Time Test Ended: 12:59:39
 Interval: **3459.00 ft (KB) To 3472.00 ft (KB) (TVD)**
 Total Depth: 3472.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Stuart Stover
 Unit No: 44
 Reference Elevations: 2132.00 ft (KB)
 2130.00 ft (CF)
 KB to GR/CF: 2.00 ft

Serial #: 8288

Inside

Press@RunDepth: 360.14 psig @ 3460.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.14 End Date: 2014.02.14 Last Calib.: 2014.02.14
 Start Time: 06:59:11 End Time: 12:58:39 Time On Btm: 2014.02.14 @ 09:18:49
 Time Off Btm: 2014.02.14 @ 11:13:29

TEST COMMENT: IFP: BOB in 3 minutes
 FFP: BOB in 7 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1737.72	98.02	Initial Hydro-static
1	38.47	97.15	Open To Flow (1)
17	238.50	113.86	Shut-In(1)
48	977.92	112.30	End Shut-In(1)
49	245.06	112.04	Open To Flow (2)
65	360.14	114.37	Shut-In(2)
114	974.79	113.35	End Shut-In(2)
115	1710.67	111.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
660.00	salt w tr	6.98

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530-0047
 ATTN: Dave Goldak

6-9s-20w Rooks, KS
Arpin A #1-6
 Job Ticket: 53618 **DST#: 3**
 Test Start: 2014.02.14 @ 06:59:09

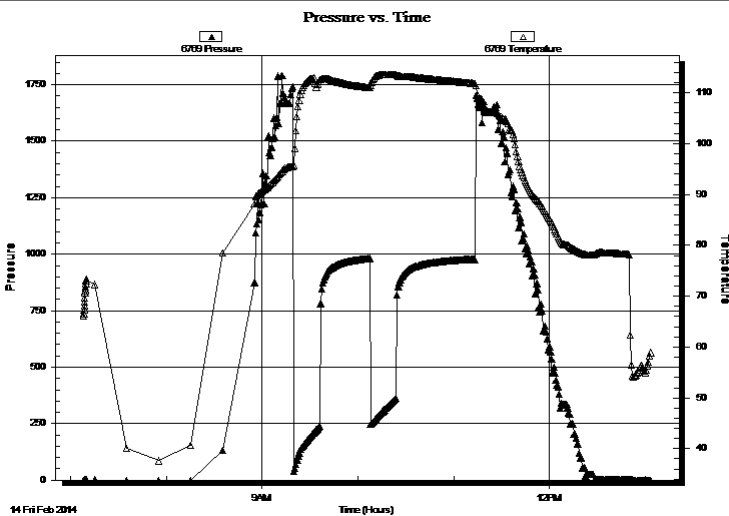
GENERAL INFORMATION:

Formation:	LKC F		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened:	09:19:09		Tester: Stuart Stover
Time Test Ended:	12:59:39		Unit No: 44
Interval:	3459.00 ft (KB) To 3472.00 ft (KB) (TVD)	Reference Elevations:	2132.00 ft (KB)
Total Depth:	3472.00 ft (KB) (TVD)		2130.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Fair	KB to GR/CF: 2.00 ft

Serial #: 6769

Press@RunDepth:	psig @	ft (KB)	Capacity:	8000.00 psig	
Start Date:	2014.02.14	End Date:	2014.02.14	Last Calib.:	2014.02.14
Start Time:	07:08:13	End Time:	13:03:30	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IFP: BOB in 3 minutes
 FFP: BOB in 7 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
660.00	salt w tr	6.98

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

6-9s-20w Rooks,KS

PO Box 47
Great Bend, KS 67530-0047

Arpin A #1-6

Job Ticket: 53618

DST#: 3

ATTN: Dave Goldak

Test Start: 2014.02.14 @ 06:59:09

Tool Information

Drill Pipe:	Length: 3198.00 ft	Diameter: 3.80 inches	Volume: 44.86 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 46.09 bbl</u>	Tool Chased	3.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3459.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	13.00 ft				
Tool Length:	40.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3437.00	
Hydraulic tool	5.00			3442.00	
Jars	5.00			3447.00	
Safety Joint	3.00			3450.00	
Packer	5.00			3455.00	27.00 Bottom Of Top Packer
Packer	4.00			3459.00	
Stubb	1.00			3460.00	
Recorder	0.00	8288	Inside	3460.00	
Recorder	0.00	8521	Outside	3460.00	
Perforations	8.00			3468.00	
Bullnose	4.00			3472.00	13.00 Bottom Packers & Anchor

Total Tool Length: 40.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

6-9s-20w Rooks,KS

PO Box 47
Great Bend, KS 67530-0047

Arpin A #1-6

Job Ticket: 53618

DST#: 3

ATTN: Dave Goldak

Test Start: 2014.02.14 @ 06:59:09

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

80000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
660.00	salt w tr	6.981

Total Length: 660.00 ft Total Volume: 6.981 bbl

Num Fluid Samples: 0

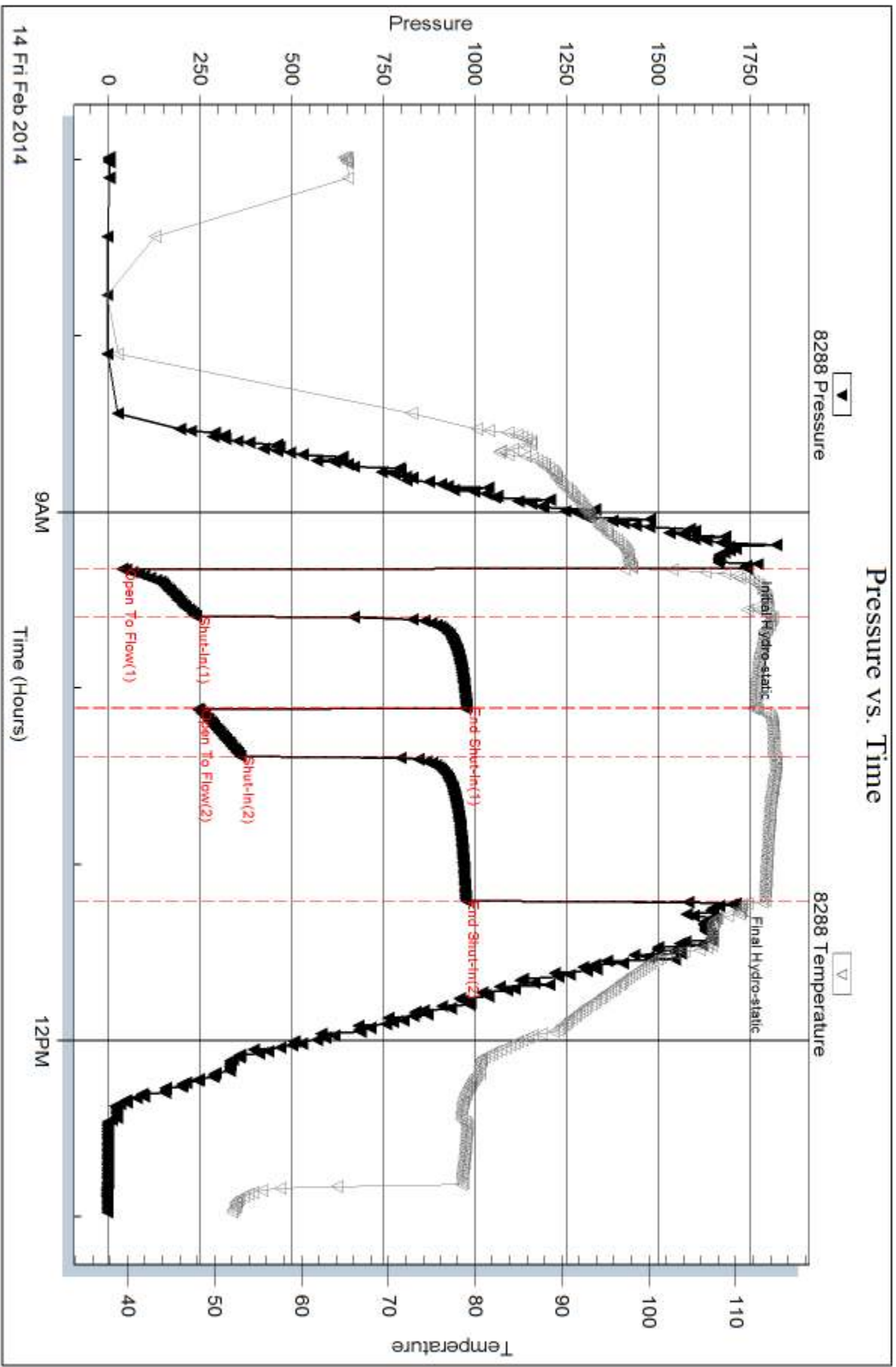
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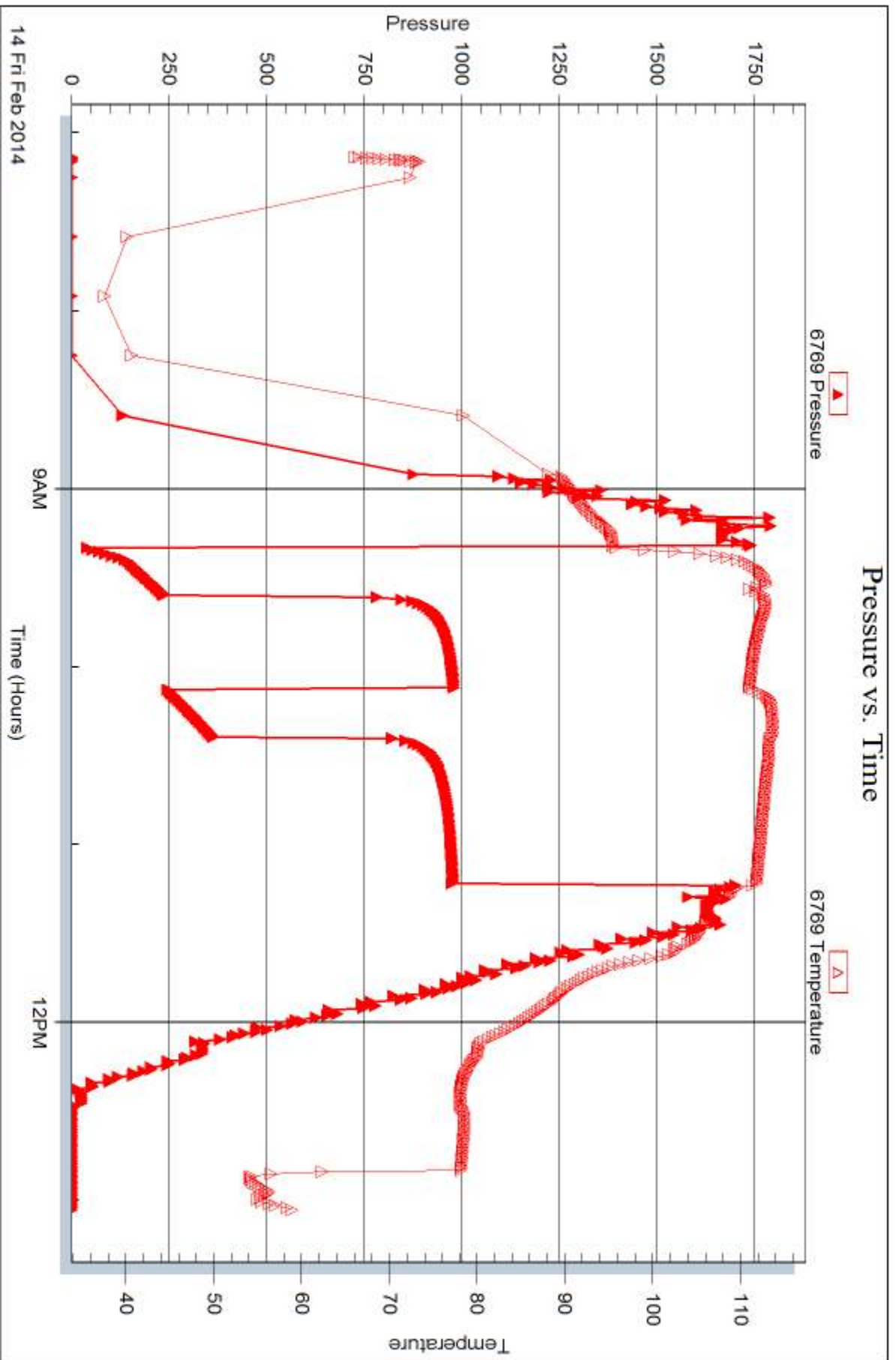
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW. .09 @ 70 deg







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530-0047

ATTN: Dave Goldak

Arpin A #1-6

6-9s-20w Rooks,KS

Start Date: 2014.02.15 @ 00:19:16

End Date: 2014.02.15 @ 05:28:44

Job Ticket #: 53682 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.02.18 @ 15:45:58



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530-0047
 ATTN: Dave Goldak

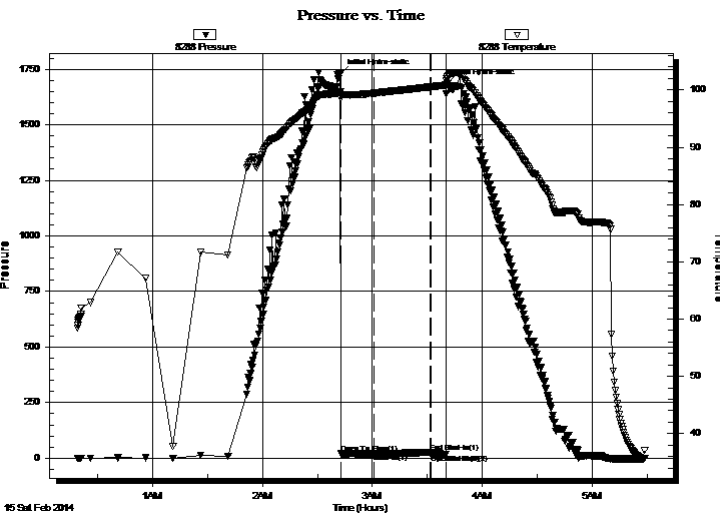
6-9s-20w Rooks,KS
Arpin A #1-6
 Job Ticket: 53682 **DST#: 4**
 Test Start: 2014.02.15 @ 00:19:16

GENERAL INFORMATION:

Formation: **LKC H-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:42:44
 Time Test Ended: 05:28:44
 Interval: **3502.00 ft (KB) To 3560.00 ft (KB) (TVD)**
 Total Depth: 3560.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Stuart Stover
 Unit No: 44
 Reference Elevations: 2132.00 ft (KB)
 2130.00 ft (CF)
 KB to GR/CF: 2.00 ft

Serial #: 8288 **Inside**
 Press@RunDepth: 20.28 psig @ 3503.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.15 End Date: 2014.02.15 Last Calib.: 2014.02.15
 Start Time: 00:19:16 End Time: 05:28:44 Time On Btm: 2014.02.15 @ 02:42:34
 Time Off Btm: 2014.02.15 @ 03:40:34

TEST COMMENT: IFP: Surface blow died in 12 minutes
 FFP: Surface blow died in 2 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1729.94	99.68	Initial Hydro-static
1	19.69	98.50	Open To Flow (1)
19	20.28	99.44	Shut-In(1)
49	25.69	100.54	End Shut-In(1)
50	18.79	100.55	Open To Flow (2)
58	18.77	100.84	Shut-In(2)
58	1685.67	101.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	drlg mud	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530-0047
 ATTN: Dave Goldak

6-9s-20w Rooks, KS
Arpin A #1-6
 Job Ticket: 53682 **DST#: 4**
 Test Start: 2014.02.15 @ 00:19:16

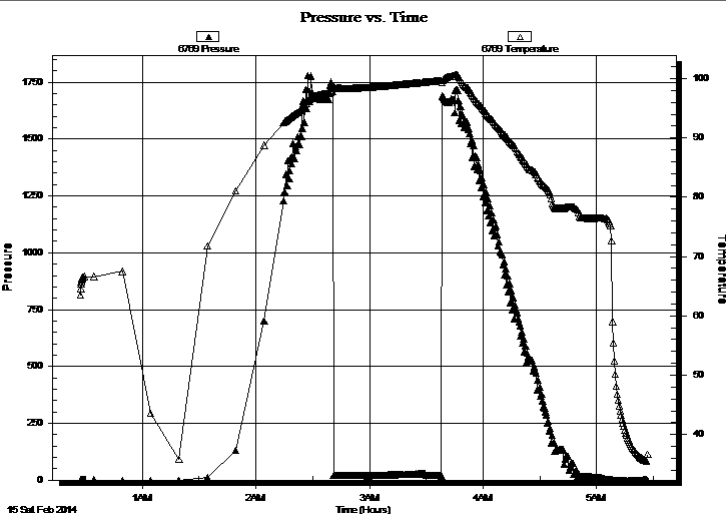
GENERAL INFORMATION:

Formation: LKC H-J			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 02:42:44		Tester: Stuart Stover	
Time Test Ended: 05:28:44		Unit No: 44	
Interval: 3502.00 ft (KB) To 3560.00 ft (KB) (TVD)		Reference Elevations: 2132.00 ft (KB)	
Total Depth: 3560.00 ft (KB) (TVD)		2130.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF: 2.00 ft	

Serial #: 6769

Press@RunDepth: psig @ ft (KB)	Capacity: 8000.00 psig
Start Date: 2014.02.15	End Date: 2014.02.15
Start Time: 00:27:22	End Time: 05:27:20
Last Calib.: 2014.02.15	Time On Btm:
	Time Off Btm:

TEST COMMENT: IFP: Surface blow died in 12 minutes
 FFP: Surface blow died in 2 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	drig mud	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

6-9s-20w Rooks,KS

PO Box 47
Great Bend, KS 67530-0047

Arpin A #1-6

Job Ticket: 53682

DST#: 4

ATTN: Dave Goldak

Test Start: 2014.02.15 @ 00:19:16

Tool Information

Drill Pipe:	Length: 3230.00 ft	Diameter: 3.80 inches	Volume: 45.31 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: 46.54 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3502.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	59.00 ft				
Tool Length:	86.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3480.00	
Hydraulic tool	5.00			3485.00	
Jars	5.00			3490.00	
Safety Joint	3.00			3493.00	
Packer	5.00			3498.00	27.00 Bottom Of Top Packer
Packer	4.00			3502.00	
Stubb	1.00			3503.00	
Recorder	0.00	8288	Inside	3503.00	
Recorder	0.00	8521	Outside	3503.00	
Perforations	1.00			3504.00	
Change Over Sub	1.00			3505.00	
Drill Pipe	32.00			3537.00	
Change Over Sub	1.00			3538.00	
Perforations	19.00			3557.00	
Bullnose	4.00			3561.00	59.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

6-9s-20w Rooks,KS

PO Box 47
Great Bend, KS 67530-0047

Arpin A #1-6

Job Ticket: 53682

DST#: 4

ATTN: Dave Goldak

Test Start: 2014.02.15 @ 00:19:16

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

1500 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	drlg mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

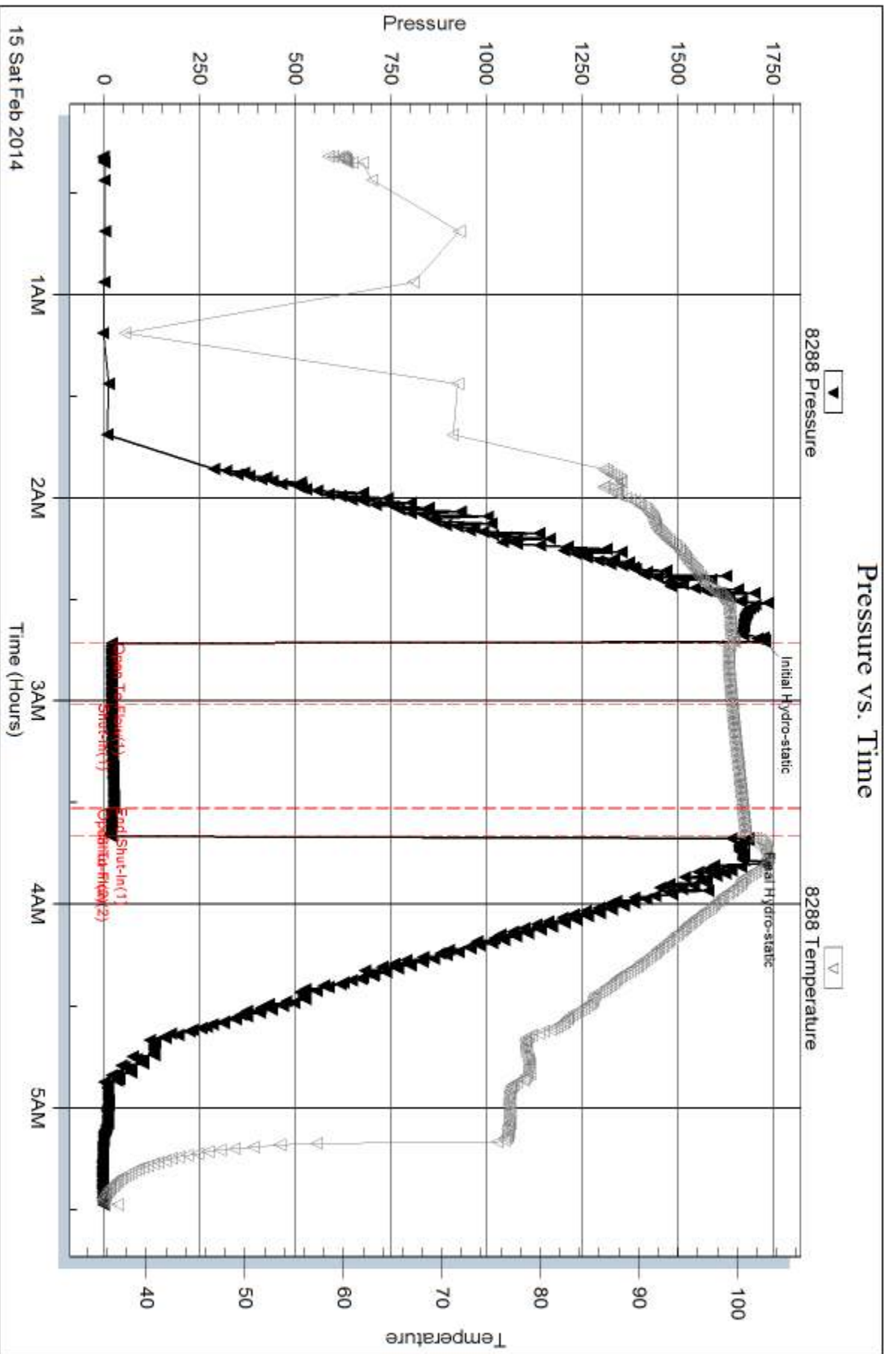
Num Gas Bombs: 0

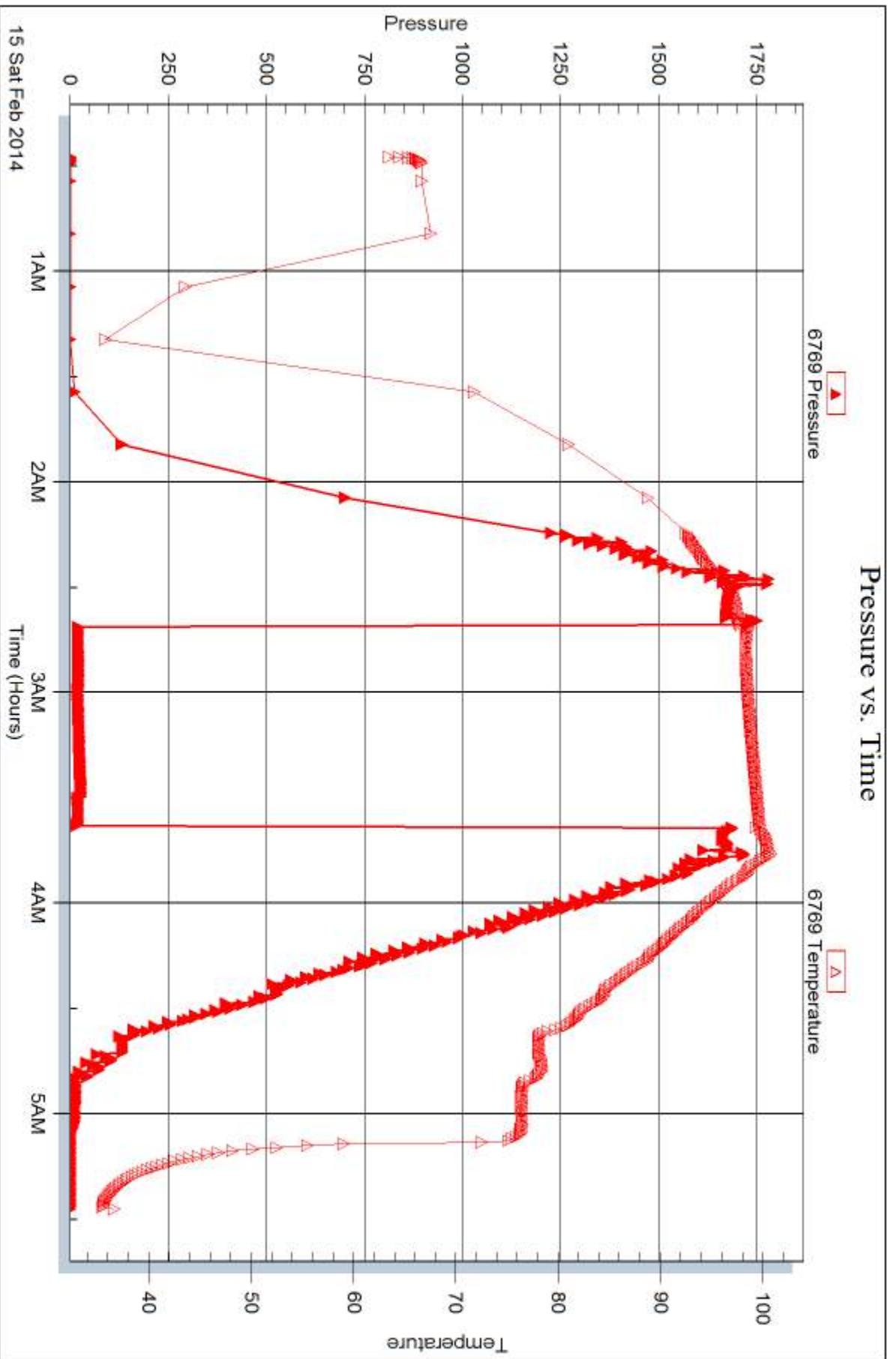
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530-0047

ATTN: Dave Goldak

Arpin A #1-6

6-9s-20w Rooks,KS

Start Date: 2014.02.15 @ 23:32:51

End Date: 2014.02.16 @ 07:01:30

Job Ticket #: 53683 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.02.18 @ 15:45:34



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530-0047
 ATTN: Dave Goldak

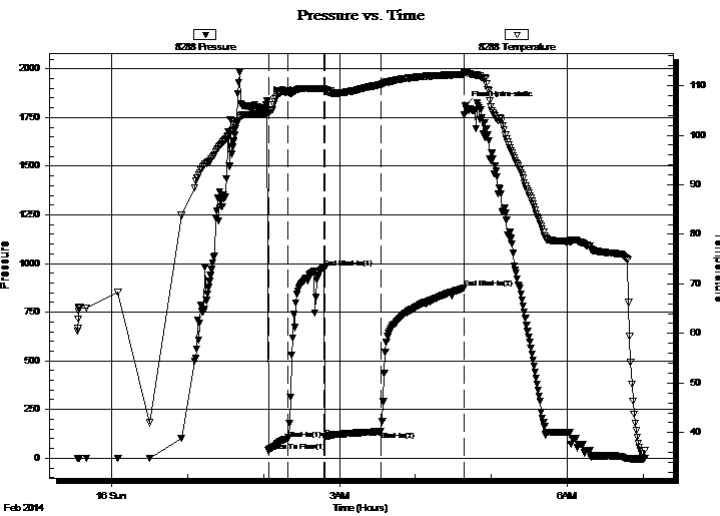
6-9s-20w Rooks,KS
Arpin A #1-6
 Job Ticket: 53683 **DST#: 5**
 Test Start: 2014.02.15 @ 23:32:51

GENERAL INFORMATION:

Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:03:41
 Time Test Ended: 07:01:30
 Interval: **3668.00 ft (KB) To 3712.00 ft (KB) (TVD)**
 Total Depth: 3712.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Stuart Stover
 Unit No: 44
 Reference Elevations: 2132.00 ft (KB)
 2130.00 ft (CF)
 KB to GR/CF: 2.00 ft

Serial #: 8288 Inside
 Press@RunDepth: 137.82 psig @ 3669.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.15 End Date: 2014.02.16 Last Calib.: 2014.02.16
 Start Time: 23:32:53 End Time: 07:01:31 Time On Btm: 2014.02.16 @ 02:02:41
 Time Off Btm: 2014.02.16 @ 04:39:31

TEST COMMENT: IFP: 1" blow increasing to 6" blow
 FFP: Surface blow slow increase to 3 1/2" blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1837.68	104.45	Initial Hydro-static
1	37.34	104.45	Open To Flow (1)
17	99.20	108.55	Shut-In(1)
45	978.02	109.35	End Shut-In(1)
46	109.33	108.92	Open To Flow (2)
91	137.82	110.23	Shut-In(2)
156	874.35	112.24	End Shut-In(2)
157	1811.89	112.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Free oil	0.30
250.00	mdy oil 60% oil 40% mud	1.78

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
 PO Box 47
 Great Bend, KS 67530-0047
 ATTN: Dave Goldak

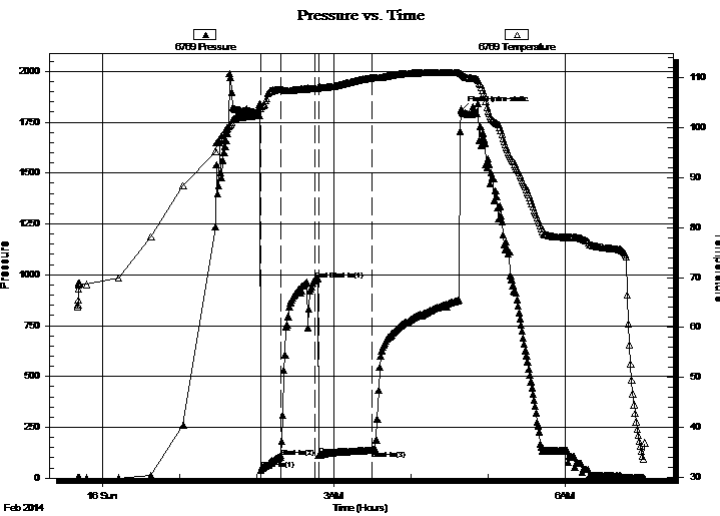
6-9s-20w Rooks,KS
Arpin A #1-6
 Job Ticket: 53683 **DST#: 5**
 Test Start: 2014.02.15 @ 23:32:51

GENERAL INFORMATION:

Formation: **Conglomerate**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:03:41
 Time Test Ended: 07:01:30
 Interval: **3668.00 ft (KB) To 3712.00 ft (KB) (TVD)**
 Total Depth: 3712.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Stuart Stover
 Unit No: 44
 Reference Elevations: 2132.00 ft (KB)
 2130.00 ft (CF)
 KB to GR/CF: 2.00 ft

Serial #: 6769 Outside
 Press@RunDepth: 974.79 psig @ 3669.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.15 End Date: 2014.02.16 Last Calib.: 2014.02.16
 Start Time: 23:41:00 End Time: 07:01:38 Time On Btm:
 Time Off Btm: 2014.02.16 @ 04:38:38

TEST COMMENT: IFP: 1" blow increasing to 6" blow
 FFP: Surface blow slow increase to 3 1/2" blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	41.22	103.79	Shut-In(1)
16	103.66	107.65	Shut-In(2)
43	974.79	107.83	End Shut-In(1)
45	111.02	108.25	Open To Flow (1)
87	138.45	110.01	Shut-In(3)
156	1807.00	110.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Free oil	0.30
250.00	mdy oil 60% oil 40% mud	1.78

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

6-9s-20w Rooks,KS

PO Box 47
Great Bend, KS 67530-0047

Arpin A #1-6

Job Ticket: 53683

DST#: 5

ATTN: Dave Goldak

Test Start: 2014.02.15 @ 23:32:51

Tool Information

Drill Pipe:	Length: 3416.00 ft	Diameter: 3.80 inches	Volume: 47.92 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 49.15 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3668.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3646.00	
Hydraulic tool	5.00			3651.00	
Jars	5.00			3656.00	
Safety Joint	3.00			3659.00	
Packer	5.00			3664.00	27.00 Bottom Of Top Packer
Packer	4.00			3668.00	
Stubb	1.00			3669.00	
Recorder	0.00	8288	Inside	3669.00	
Recorder	0.00	6769	Outside	3669.00	
Perforations	1.00			3670.00	
Change Over Sub	1.00			3671.00	
Drill Pipe	31.00			3702.00	
Change Over Sub	1.00			3703.00	
Perforations	5.00			3708.00	
Bullnose	4.00			3712.00	44.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

6-9s-20w Rooks,KS

PO Box 47
Great Bend, KS 67530-0047

Arpin A #1-6

Job Ticket: 53683

DST#: 5

ATTN: Dave Goldak

Test Start: 2014.02.15 @ 23:32:51

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Free oil	0.295
250.00	mdy oil 60% oil 40% mud	1.776

Total Length: 310.00 ft

Total Volume: 2.071 bbl

Num Fluid Samples: 0

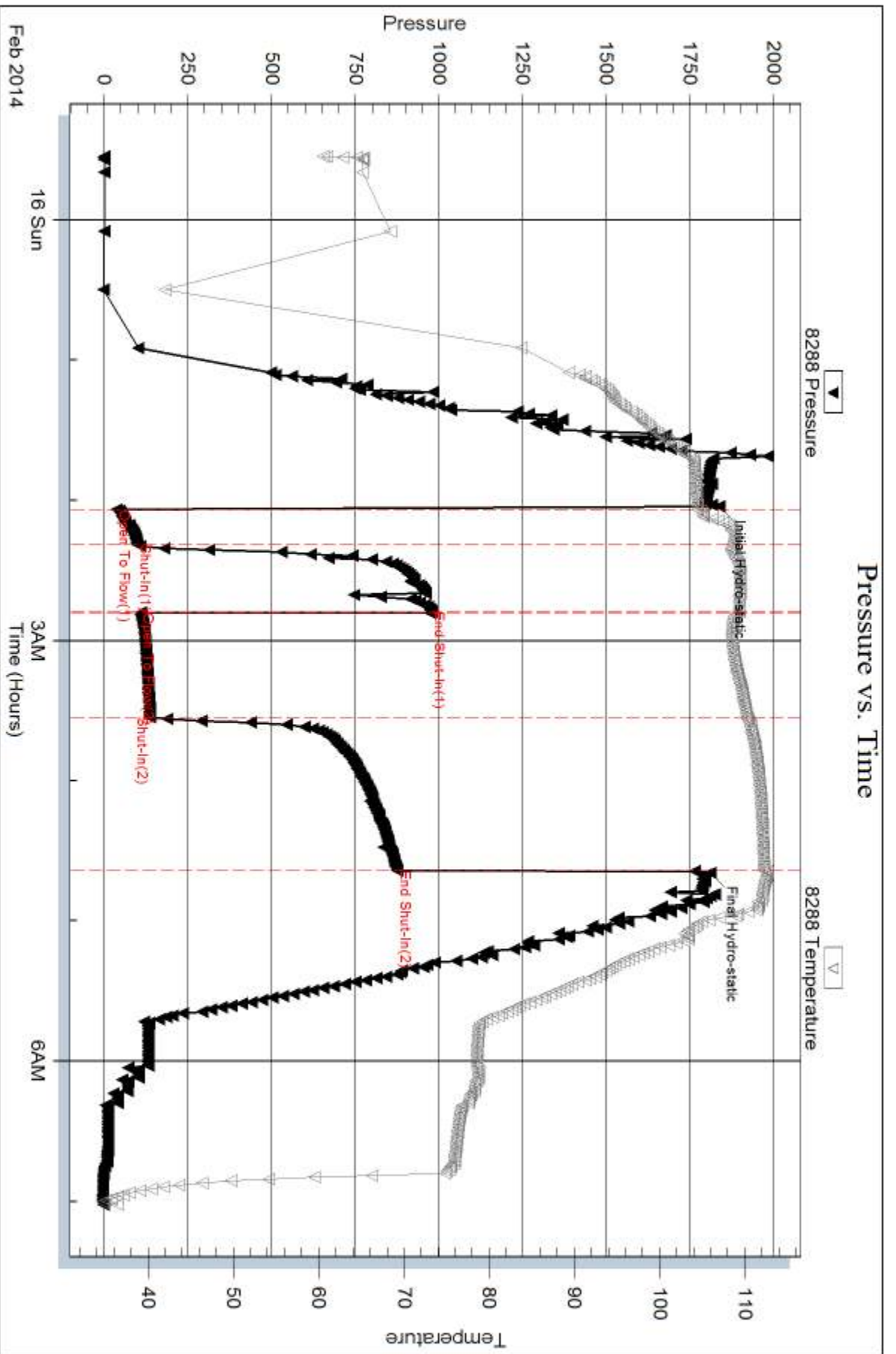
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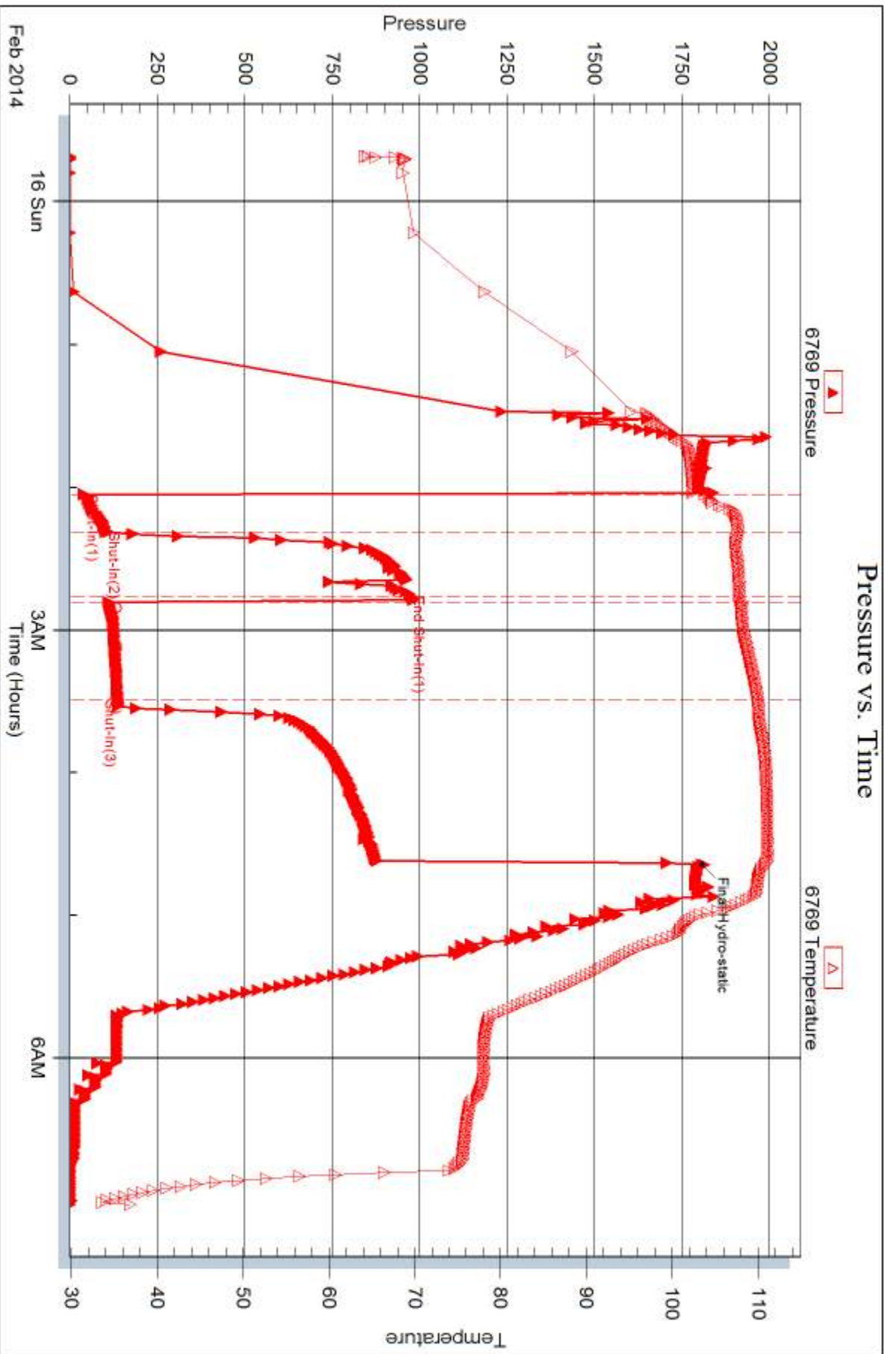
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530-0047

ATTN: Dave Goldak

Arpin A #1-6

6-9s-20w Rooks,KS

Start Date: 2014.02.16 @ 09:14:56

End Date: 2014.02.16 @ 17:15:35

Job Ticket #: 53684 DST #: 6

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.02.18 @ 15:45:12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530-0047
ATTN: Dave Goldak

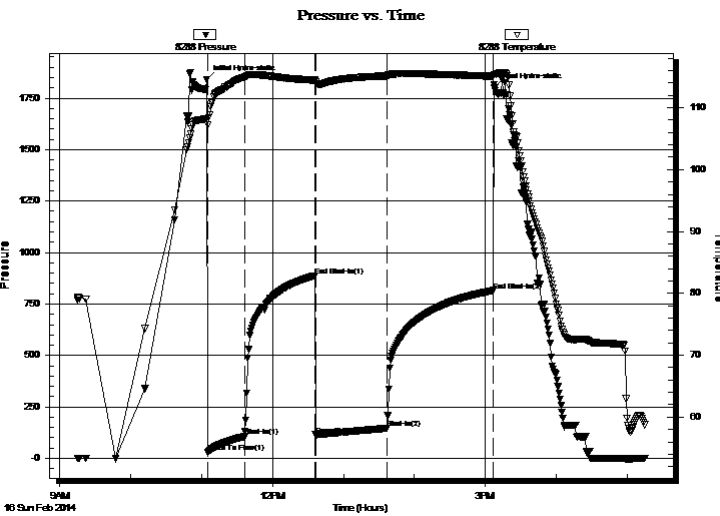
6-9s-20w Rooks,KS
Arpin A #1-6
Job Ticket: 53684 **DST#: 6**
Test Start: 2014.02.16 @ 09:14:56

GENERAL INFORMATION:

Formation: **Conglomerate**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:04:56
Time Test Ended: 17:15:35
Interval: **3668.00 ft (KB) To 3712.00 ft (KB) (TVD)**
Total Depth: 3712.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Stuart Stover
Unit No: 44
Reference Elevations: 2132.00 ft (KB)
2130.00 ft (CF)
KB to GR/CF: 2.00 ft

Serial #: 8288 Inside
Press@RunDepth: 146.19 psig @ 3669.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.02.16 End Date: 2014.02.16 Last Calib.: 2014.02.16
Start Time: 09:14:58 End Time: 17:15:36 Time On Btm: 2014.02.16 @ 11:04:26
Time Off Btm: 2014.02.16 @ 15:07:56

TEST COMMENT: IFP: 1" blow increasing to 7" blow
FFP: Surface blow to 3" blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1841.43	108.26	Initial Hydro-static
1	27.63	107.19	Open To Flow (1)
32	105.26	114.95	Shut-In(1)
92	887.78	114.44	End Shut-In(1)
92	114.12	114.14	Open To Flow (2)
153	146.19	115.14	Shut-In(2)
243	812.63	115.10	End Shut-In(2)
244	1802.93	115.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Free oil	0.89
120.00	Mdy oil 2% gas 48% oil 50% mud	1.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

6-9s-20w Rooks,KS

PO Box 47
Great Bend, KS 67530-0047

Arpin A #1-6

Job Ticket: 53684

DST#: 6

ATTN: Dave Goldak

Test Start: 2014.02.16 @ 09:14:56

Tool Information

Drill Pipe:	Length: 3416.00 ft	Diameter: 3.80 inches	Volume: 47.92 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 49.15 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3668.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	44.00 ft				
Tool Length:	71.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3646.00	
Hydraulic tool	5.00			3651.00	
Jars	5.00			3656.00	
Safety Joint	3.00			3659.00	
Packer	5.00			3664.00	27.00 Bottom Of Top Packer
Packer	4.00			3668.00	
Stubb	1.00			3669.00	
Recorder	0.00	8288	Inside	3669.00	
Recorder	0.00	6769	Outside	3669.00	
Perforations	1.00			3670.00	
Change Over Sub	1.00			3671.00	
Drill Pipe	31.00			3702.00	
Change Over Sub	1.00			3703.00	
Perforations	5.00			3708.00	
Bullnose	4.00			3712.00	44.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

6-9s-20w Rooks,KS

PO Box 47
Great Bend, KS 67530-0047

Arpin A #1-6

Job Ticket: 53684

DST#: 6

ATTN: Dave Goldak

Test Start: 2014.02.16 @ 09:14:56

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Free oil	0.885
120.00	Mdy oil 2% gas 48% oil 50% mud	1.046

Total Length: 300.00 ft Total Volume: 1.931 bbl

Num Fluid Samples: 0

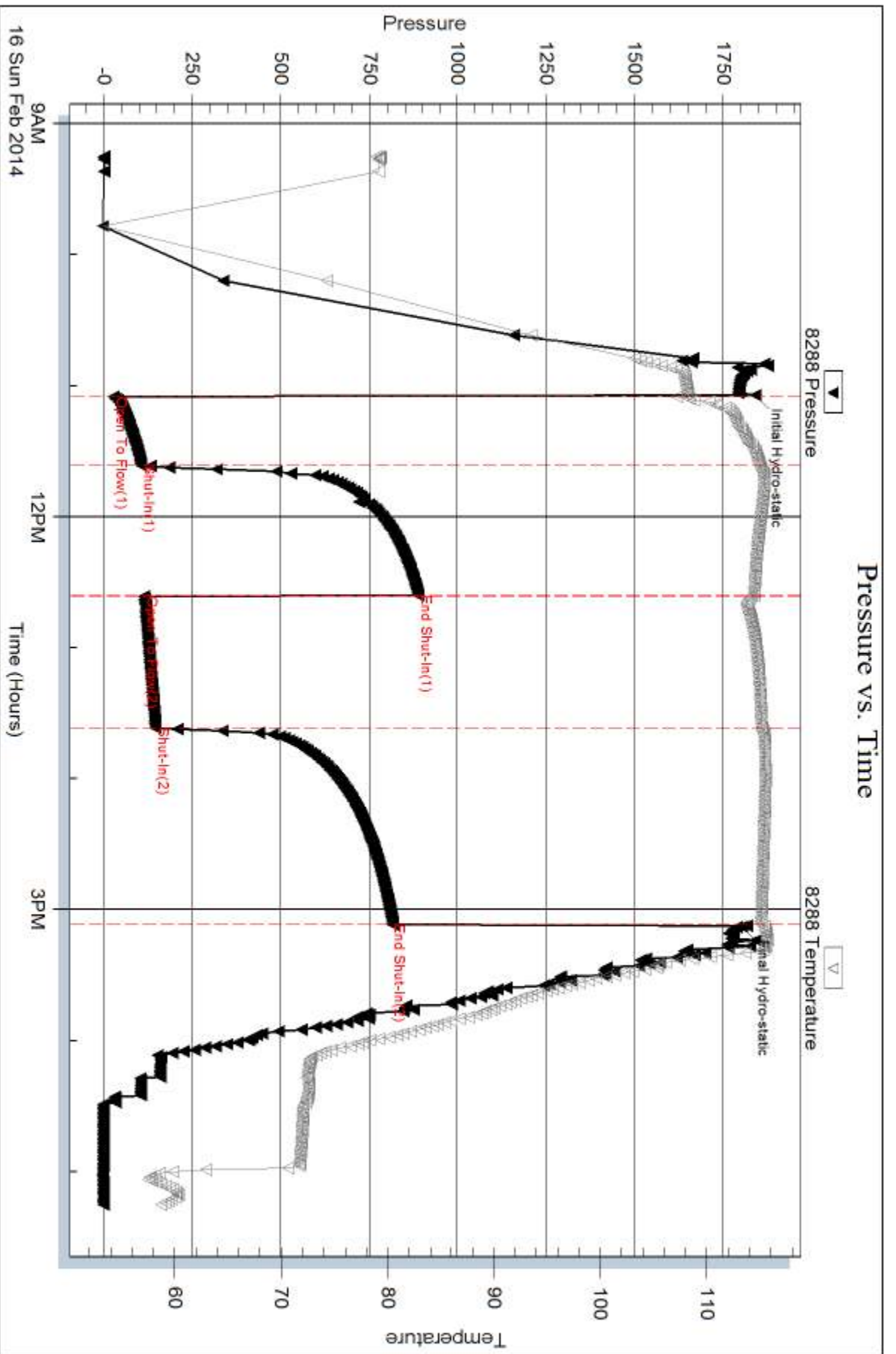
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt, Inc.**

PO Box 47
Great Bend, KS 67530-0047

ATTN: Dave Goldak

Arpin A #1-6

6-9s-20w Rooks,KS

Start Date: 2014.02.17 @ 01:34:17

End Date: 2014.02.17 @ 09:45:47

Job Ticket #: 53685 DST #: 7

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.02.18 @ 15:44:42



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530-0047
ATTN: Dave Goldak

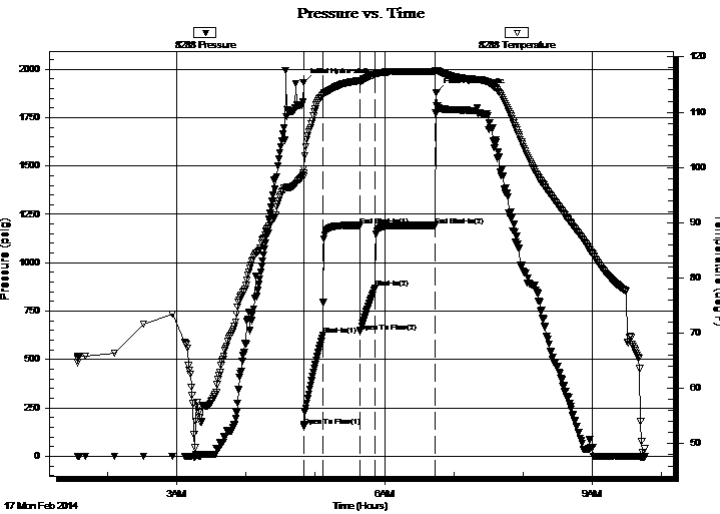
6-9s-20w Rooks,KS
Arpin A #1-6
Job Ticket: 53685 **DST#: 7**
Test Start: 2014.02.17 @ 01:34:17

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:49:57
Time Test Ended: 09:45:47
Interval: **3732.00 ft (KB) To 3736.00 ft (KB) (TVD)**
Total Depth: 3316.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2132.00 ft (KB)
2130.00 ft (CF)
KB to GR/CF: 2.00 ft

Serial #: 8288 Inside
Press@RunDepth: 867.92 psig @ 3733.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.02.17 End Date: 2014.02.17 Last Calib.: 2014.02.17
Start Time: 01:34:19 End Time: 09:45:47 Time On Btm: 2014.02.17 @ 04:49:47
Time Off Btm: 2014.02.17 @ 06:44:56

TEST COMMENT: IFP: BOB in 1"
FFP: BOB in 1"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1931.49	98.93	Initial Hydro-static
1	153.28	98.44	Open To Flow (1)
17	626.57	113.07	Shut-In(1)
49	1191.79	115.72	End Shut-In(1)
49	644.29	115.50	Open To Flow (2)
62	867.92	116.84	Shut-In(2)
114	1192.52	117.33	End Shut-In(2)
116	1878.36	117.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1980.00	salt w tr	25.50

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Carmen Schmitt, Inc.
PO Box 47
Great Bend, KS 67530-0047
ATTN: Dave Goldak

6-9s-20w Rooks,KS
Arpin A #1-6
Job Ticket: 53685 DST#: 7
Test Start: 2014.02.17 @ 01:34:17

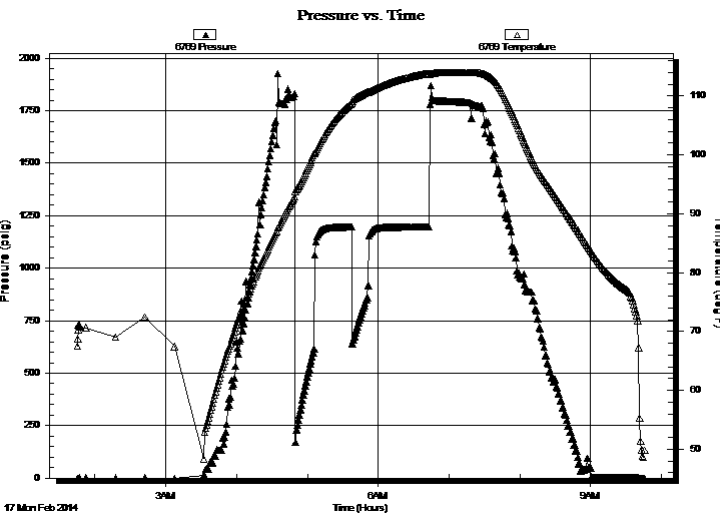
GENERAL INFORMATION:

Formation: Arbuckle
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:49:57
Time Test Ended: 09:45:47
Interval: 3732.00 ft (KB) To 3736.00 ft (KB) (TVD)
Total Depth: 3316.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Stuart Stover
Unit No: 44
Reference Elevations: 2132.00 ft (KB)
2130.00 ft (CF)
KB to GR/CF: 2.00 ft

Serial #: 6769

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig
Start Date: 2014.02.17 End Date: 2014.02.17 Last Calib.: 2014.02.17
Start Time: 01:45:25 End Time: 09:46:03 Time On Btm:
Time Off Btm:

TEST COMMENT: IFP: BOB in 1"
FFP: BOB in 1"



PRESSURE SUMMARY

Table with 4 columns: Time (Min.), Pressure (psig), Temp (deg F), Annotation

Recovery

Table with 3 columns: Length (ft), Description, Volume (bbl)

* Recovery from multiple tests

Gas Rates

Table with 4 columns: Choke (inches), Pressure (psig), Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Carmen Schmitt, Inc.

6-9s-20w Rooks,KS

PO Box 47
Great Bend, KS 67530-0047

Arpin A #1-6

Job Ticket: 53685

DST#: 7

ATTN: Dave Goldak

Test Start: 2014.02.17 @ 01:34:17

Tool Information

Drill Pipe:	Length: 3486.00 ft	Diameter: 3.80 inches	Volume: 48.90 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 50.13 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3732.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	4.00 ft			
Tool Length:	31.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3710.00	
Hydraulic tool	5.00			3715.00	
Jars	5.00			3720.00	
Safety Joint	3.00			3723.00	
Packer	5.00			3728.00	27.00 Bottom Of Top Packer
Packer	4.00			3732.00	
Stubb	1.00			3733.00	
Recorder	0.00	8288	Inside	3733.00	
Recorder	0.00	8521	Outside	3733.00	
Bullnose	3.00			3736.00	4.00 Bottom Packers & Anchor
Total Tool Length:	31.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carmen Schmitt, Inc.

6-9s-20w Rooks,KS

PO Box 47
Great Bend, KS 67530-0047

Arpin A #1-6

Job Ticket: 53685

DST#: 7

ATTN: Dave Goldak

Test Start: 2014.02.17 @ 01:34:17

Mud and Cushion Information

Mud Type: KCl	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 65000 ppm	
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1300.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

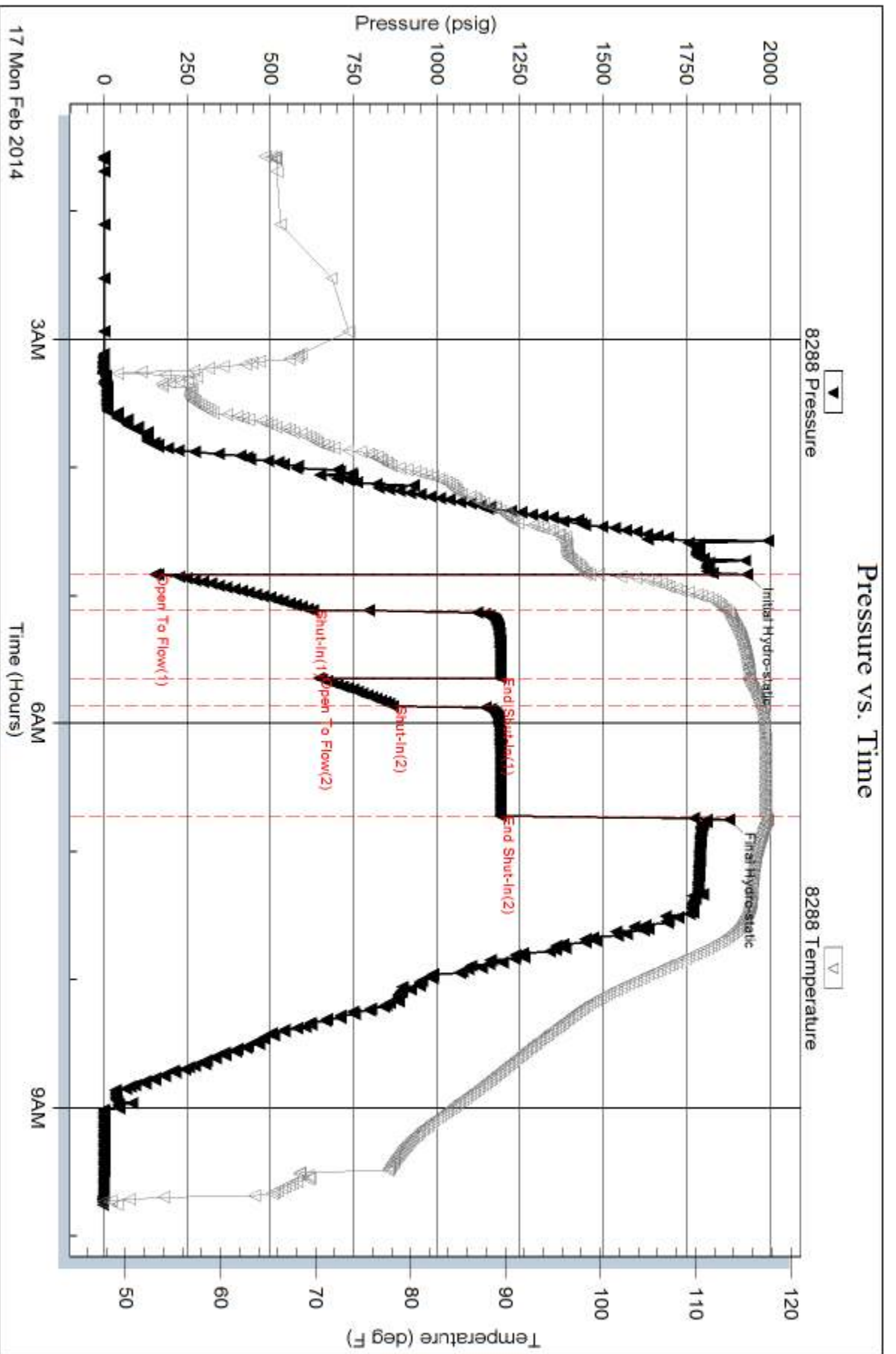
Length ft	Description	Volume bbl
1980.00	salt w tr	25.497

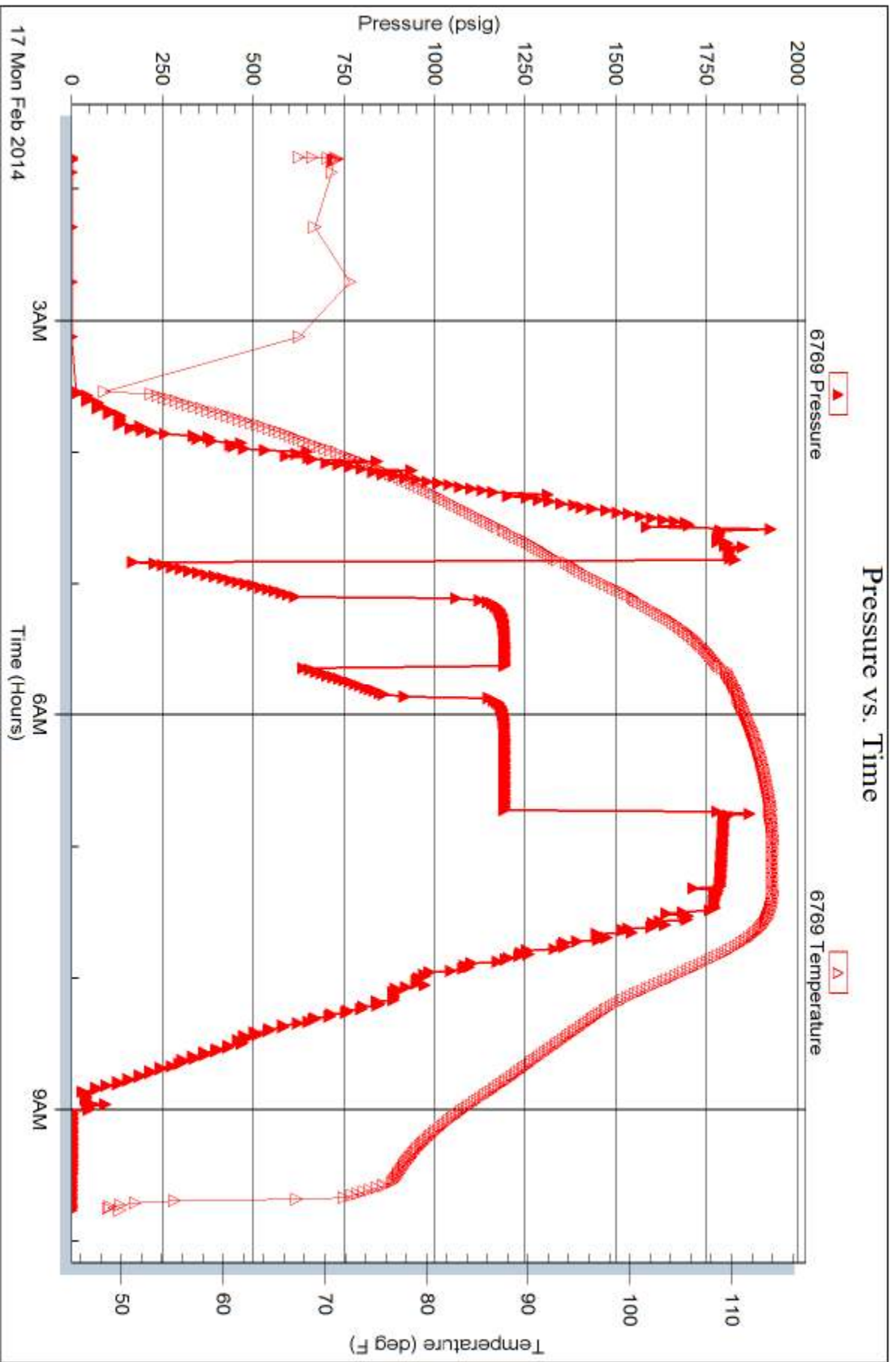
Total Length: 1980.00 ft Total Volume: 25.497 bbl

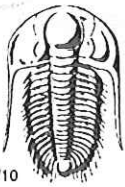
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW 0.1 @ 76 deg







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53679

Well Name & No. Arpin A # 1-6 Test No. 1 Date 2-12-14
 Company Carmen Schmitt, INC Elevation 2132 KB 2130 GL
 Address PO Box 47 Great Bend, KS. 67530-0047
 Co. Rep / Geo. Dave Goldak Rig Mallard
 Location: Sec. 6 Twp. 095 Rge. 20W Co. Rooks State KS

Interval Tested 3306 - 3316 Zone Tested ORoad
 Anchor Length 10 Drill Pipe Run 3044 Mud Wt. 8.9
 Top Packer Depth 3301 Drill Collars Run 250 Vis 47
 Bottom Packer Depth 3306 Wt. Pipe Run 0 WL 5.4
 Total Depth 3316 Chlorides 1400 ppm System LCM 2
 Blow Description TIP: Surface blow to 1" Blow
FFP: 1/2" Blow to 1 1/2" Blow

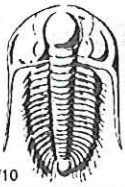
Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>moly Wtn</u>				

Rec Total 120' BHT 108 Gravity _____ API RW .17 @ 73°F Chlorides 38000 ppm

(A) Initial Hydrostatic <u>1470</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location _____
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>900</u>
(C) First Final Flow <u>36</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1155</u>
(D) Initial Shut-In <u>1031</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>220</u>
(E) Second Initial Flow <u>39</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>345</u>
(F) Second Final Flow <u>81</u>	<input checked="" type="checkbox"/> Mileage <u>94rt 145.70</u>	Comments _____
(G) Final Shut-In <u>1020</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1418</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1620.70</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1620.70</u>	

Approved By [Signature] Our Representative Stuart Stover

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53680

4/10

Well Name & No. Arpin "A" 1-6 Test No. 2 Date 2-13-2014
 Company Carmen Schmitt Inc Elevation 2137 KB 2130 GL
 Address PO Box 47 Great Bend, KS, 67530-0047
 Co. Rep / Geo. DAVE GOLDAK Rig MALLOD
 Location: Sec. 6 Twp. 095 Rge. 20W Co. ROOKS State KS

Interval Tested 3404-3432 Zone Tested LKC "C"
 Anchor Length 24 Drill Pipe Run 3160 Mud Wt. 8.9
 Top Packer Depth 3401 Drill Collars Run 250 Vis 50
 Bottom Packer Depth 3406 Wt. Pipe Run 0 WL 5.8
 Total Depth 3432 Chlorides 1400 ppm System LCM 2
 Blow Description IFP - 4 1/2" blow increasing to 8" Blow
FFP - Surface blow increasing to 6" Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>420</u>	<u>mdy wtr</u>		<u>98</u>	<u>2</u>	

Rec Total 420 BHT 112 Gravity _____ API RW 0.13@ 49° F Chlorides 85,000 ppm

(A) Initial Hydrostatic <u>11077</u>	<input type="checkbox"/> Test <u>1150</u>	T-On Location _____
(B) First Initial Flow <u>47</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>4:15</u>
(C) First Final Flow <u>1345</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>5:45</u>
(D) Initial Shut-In <u>998</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>8:15</u>
(E) Second Initial Flow <u>136</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>930</u>
(F) Second Final Flow <u>230</u>	<input type="checkbox"/> Mileage <u>145.70</u>	Comments _____
(G) Final Shut-In <u>988</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1665</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1620.70</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1620.70</u>	

Approved By [Signature] Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53681

Well Name & No. Arpin "A" 1-6 Test No. 3 Date 2-14-2014
 Company Carmen Schmitt, INC Elevation 2132 KB 2130 GL
 Address PO Box 47 Great Bend KS 67530-0047
 Co. Rep / Geo. DAVE Goldax Rig Mallard
 Location: Sec. 6 Twp. 09S Rge. 20W Co. Roos State KS

Interval Tested 3459-3472 Zone Tested LKC "P"
 Anchor Length 13 Drill Pipe Run 3198 Mud Wt. 9.3
 Top Packer Depth 3454 Drill Collars Run 250 Vis 56
 Bottom Packer Depth 3459 Wt. Pipe Run 0 WL 6.0
 Total Depth 3472 Chlorides 1500 ppm System LCM 2
 Blow Description IFF: BOB IN 3 MIN
FFP: BOB IN 7 MIN

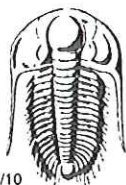
Rec	Feet of	%gas	%oil	%water	%mud
<u>660</u>	<u>Salt Wtr</u>				

Rec Total 660 BHT 114° Gravity _____ API RW .09 @ 70° F Chlorides 80,000 ppm

(A) Initial Hydrostatic <u>1738</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>6:45</u>
(B) First Initial Flow <u>38</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>700</u>
(C) First Final Flow <u>238</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>920</u>
(D) Initial Shut-In <u>978</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1105</u>
(E) Second Initial Flow <u>245</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1245</u>
(F) Second Final Flow <u>360</u>	<input type="checkbox"/> Mileage <u>145.70</u>	Comments _____
(G) Final Shut-In <u>975</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1711</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1620.70</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1620.70</u>	

Approved By [Signature] Our Representative STUART STOVER

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53682

4/10

Well Name & No. Arpiv "A" 1-6 Test No. 4 Date 2-15-2014
 Company Carmen Schmitt, INC Elevation 2132 KB 3130 GL
 Address PO Box 47 Great Bend KS 67530-0047
 Co. Rep / Geo. DAVE Goldax Rig Mallard
 Location: Sec. 6 Twp. 09S Rge. 20W Co. ROOKS State KS

Interval Tested 3502 - 3560 Zone Tested LKC H-T
 Anchor Length 58 Drill Pipe Run 3220 Mud Wt. 9.3
 Top Packer Depth 3497 Drill Collars Run 250 Vis SG
 Bottom Packer Depth 3502 Wt. Pipe Run 0 WL 6.0
 Total Depth 3560 Chlorides 1500 ppm System LCM 2
 Blow Description ZFP - SURFACE BLOW DIED IN 12 MIN.
FFP - SURFACE BLOW DIED IN 2 MIN.

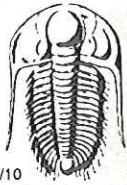
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Dolg MUD</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5' BHT 104 Gravity _____ API RW _____ @ _____ °F Chlorides 1500 ppm

(A) Initial Hydrostatic <u>1730</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1200</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1215</u>
(C) First Final Flow <u>18</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>245</u>
(D) Initial Shut-In <u>19</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>335</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>515</u>
(F) Second Final Flow <u>19</u>	<input type="checkbox"/> Mileage <u>145.70</u>	Comments <u>Pulled Tool after 2ND open</u>
(G) Final Shut-In _____	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1686</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>5</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>NONE</u>	<input type="checkbox"/> Day Standby _____	Total <u>1620.70</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1620.70</u>	

Approved By [Signature] Our Representative STUART Stover

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53683

4/10

Well Name & No. Arpin A 1-6 Test No. 5 Date 2-14-2014
 Company Carmen Schmitt, Inc Elevation 2132 KB 2130 GL
 Address PO Box 47 Great Bend Ks 67530-0047
 Co. Rep / Geo. Dave Goldak Rig Mallard
 Location: Sec. 6 Twp. 095 Rge. 20W Co. Rooks State Ks

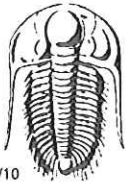
Interval Tested 3668-3712 Zone Tested Conglomerate
 Anchor Length 44' Drill Pipe Run 3416 Mud Wt. 9.2
 Top Packer Depth 3463 Drill Collars Run 250 Vis 55
 Bottom Packer Depth 3668 Wt. Pipe Run 0 WL 6.0
 Total Depth 3712 Chlorides 1400 ppm System LCM 2#
 Blow Description IFP - 1" Blow increasing to 6" blow
IFP - Surface blow slow increase to 3 1/2" blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>Free oil</u>				
<u>250</u>	<u>mdy oil</u>		<u>60%</u>		<u>40%</u>

Rec Total _____ BHT _____ Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1838 Test 1150 T-On Location 11:30
 (B) First Initial Flow 37 Jars 250 T-Started 11:40
 (C) First Final Flow 180 Safety Joint 75 T-Open 2:00
 (D) Initial Shut-In 971 Circ Sub _____ T-Pulled 4:30
 (E) Second Initial Flow 109 Hourly Standby _____ T-Out _____
 (F) Second Final Flow 136 Mileage 145.70 Comments _____
 (G) Final Shut-In 868 Sampler _____
 (H) Final Hydrostatic 1764 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 15 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1620.70
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1620.70

Approved By [Signature] Our Representative Stuart Stover
 Trilobite Testing Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53684

4/10

Well Name & No. Arpin "A" 1-4 Test No. 6 Date 2-16-2014
 Company CARMEN Schmitt, INC. Elevation 2132 KB 2130 GL
 Address PO Box 47 Great Bend, KS 67530-0047
 Co. Rep / Geo. DAVE Coldak Rig Mallard
 Location: Sec. 6 Twp. 09 S Rge. 20W Co. ROOKS State KS

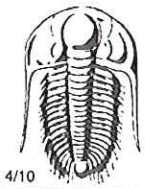
Interval Tested 3668-3712 Zone Tested Conglomerate
 Anchor Length 44' Drill Pipe Run 3416 Mud Wt. 9.3
 Top Packer Depth 3663 Drill Collars Run 250 Vis 56
 Bottom Packer Depth 3668 Wt. Pipe Run 0 WL 6.0
 Total Depth 3712 Chlorides 1300 ppm System LCM 2
 Blow Description FFP: 1" blow increasing to 7" blow
FFP:

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>Free oil</u>				
<u>120</u>	<u>mdy oil</u>	<u>2</u>	<u>48</u>	<u>50</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 300 BHT 116° Gravity 33 API RW @ ° F Chlorides ppm
 (A) Initial Hydrostatic 1841 Test 1150 T-On Location 11:30 PM 2-15-14
 (B) First Initial Flow 28 Jars 250 T-Started 9:30
 (C) First Final Flow 105 Safety Joint 75 T-Open 11:05
 (D) Initial Shut-In 888 Circ Sub T-Pulled 3:05
 (E) Second Initial Flow 114 Hourly Standby T-Out 4:45
 (F) Second Final Flow 148 Mileage 145.70 Comments
 (G) Final Shut-In 815 Sampler
 (H) Final Hydrostatic 1840 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Initial Open 30 Extra Recorder Sub Total 0
 Initial Shut-In 60 Day Standby Total 1620.70
 Final Flow 60 Accessibility MP/DST Disc't
 Final Shut-In 90 Sub Total 1620.70

Approved By [Signature] Our Representative STUART STOVER

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53685

Well Name & No. Arpion "A" 1-6 Test No. 7 Date 2-17-2014
 Company Carmen Schmitt Inc Elevation 2132 KB 2130 GL
 Address Po Box 47, Great Bend, Ks. 67530-0047
 Co. Rep / Geo. Dave Goldak Rig Mallard
 Location: Sec. 6 Twp. 25 Rge. 20W Co. ROOKS State K5

Interval Tested 3732 - 3736 Zone Tested Arbuckle
 Anchor Length 4' Drill Pipe Run 3486 Mud Wt. 9.3
 Top Packer Depth 3727 Drill Collars Run 250 Vis 56
 Bottom Packer Depth 3732 Wt. Pipe Run 0 WL 6.0
 Total Depth 3736 Chlorides 1300 ppm System LCM 2#
 Blow Description IFP - BOB IN 1 minute
FFP - BOB IN 1 minute

Rec	Feet of	%gas	%oil	%water	%mud
<u>1980</u>	<u>Salt wfr</u>		<u>99</u>	<u>1</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1980 BHT 118° Gravity 0.22 @ 76° F Chlorides 65,000 ppm
 (A) Initial Hydrostatic 1931 Test 1150 T-On Location X115
 (B) First Initial Flow 153 Jars 250 T-Started 130
 (C) First Final Flow 627 Safety Joint 75 T-Open 450
 (D) Initial Shut-In 1192 Circ Sub T-Pulled 635
 (E) Second Initial Flow 644 Hourly Standby T-Out 945
 (F) Second Final Flow 868 Mileage 145.70 Comments _____
 (G) Final Shut-In 1193 Sampler _____
 (H) Final Hydrostatic 1878 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Initial Open 15 Extra Recorder _____
 Initial Shut-In 30 Day Standby _____
 Final Flow 15 Accessibility _____
 Final Shut-In 45 Sub Total 0
 Sub Total 1620.70 Total 1620.70
 MP/DST Disc't _____

Approved By [Signature] Our Representative Stuart Stover

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Pioneer Energy Services

Dual Induction Log

15-163-24,174-00-00

API No.

Company **Carmen Schmitt, Inc.**

Well **Arpin "A" #1-6**

Field

County **Rooks** State

Kansas

Location

**SE NE NE SW
2,293' FSL & 2,555' FWL**

Other Services
CNL/CDL
MEL/BHCS

Sec: **6** Twp: **9S** Rge: **20W**

Permanent Datum **Ground Level** Elevation **2127**
Log Measured From **Kelly Bushing** **5** Ft. Above Perm. Datum
Drilling Measured From **Kelly Bushing**

Elevation
K.B. 2132
D.F. 2132
G.L. 2127

Date **2/17/2014**

Run Number **One**

Depth Driller **3830**

Depth Logger **3830**

Bottom Logged Interval **3829**

Top Log Interval **200**

Casing Driller **8.625 @ 208**

Casing Logger **208**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity,ppm CL **1300**

Density / Viscosity **9.3 58**

pH / Fluid Loss **10.5 6.0**

Source of Sample **Flowline**

Rm @ Meas. Temp **.80 @ 66**

Rmf @ Meas. Temp **.60 @ 66**

Rmc @ Meas. Temp **1.08 @ 66**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.46 @ 114**

Operating Rig Time **4 Hours**

Max Rec. Temp. F **114**

Equipment Number **108**

Location **Hays**

Recorded By **J. Long**

Witnessed By **Dave Goldak**

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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

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785 625 3858

Damar, 1 South on 18 Highway to S Road, 1 1/2 West, 1/2 South, East Into

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Presentation Format: dil2in
Dataset Creation: Mon Feb 17 21:24:49 2014
Charted by: Depth in Feet scaled 1:600

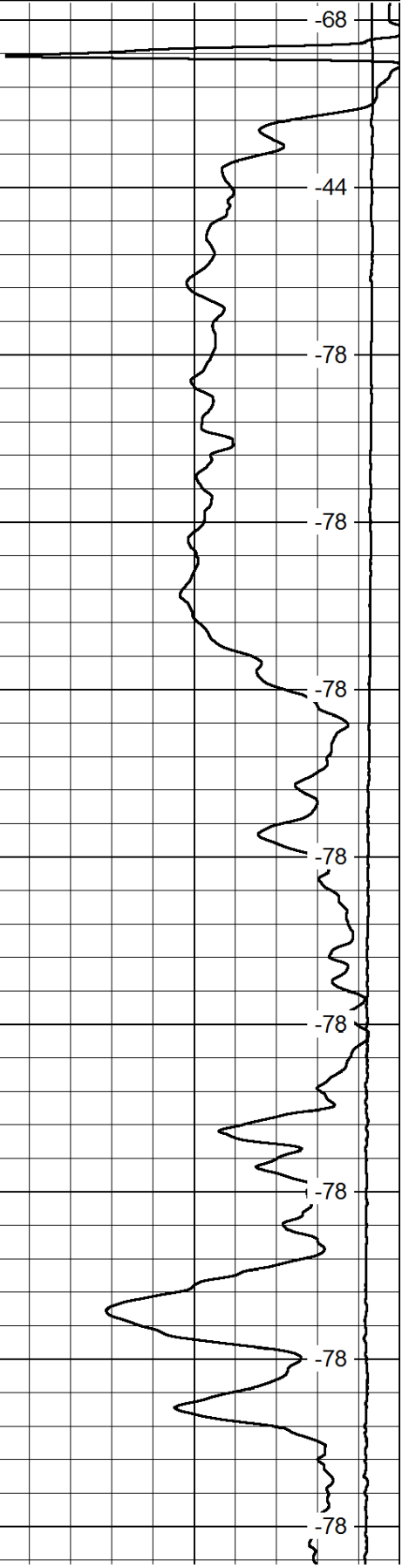
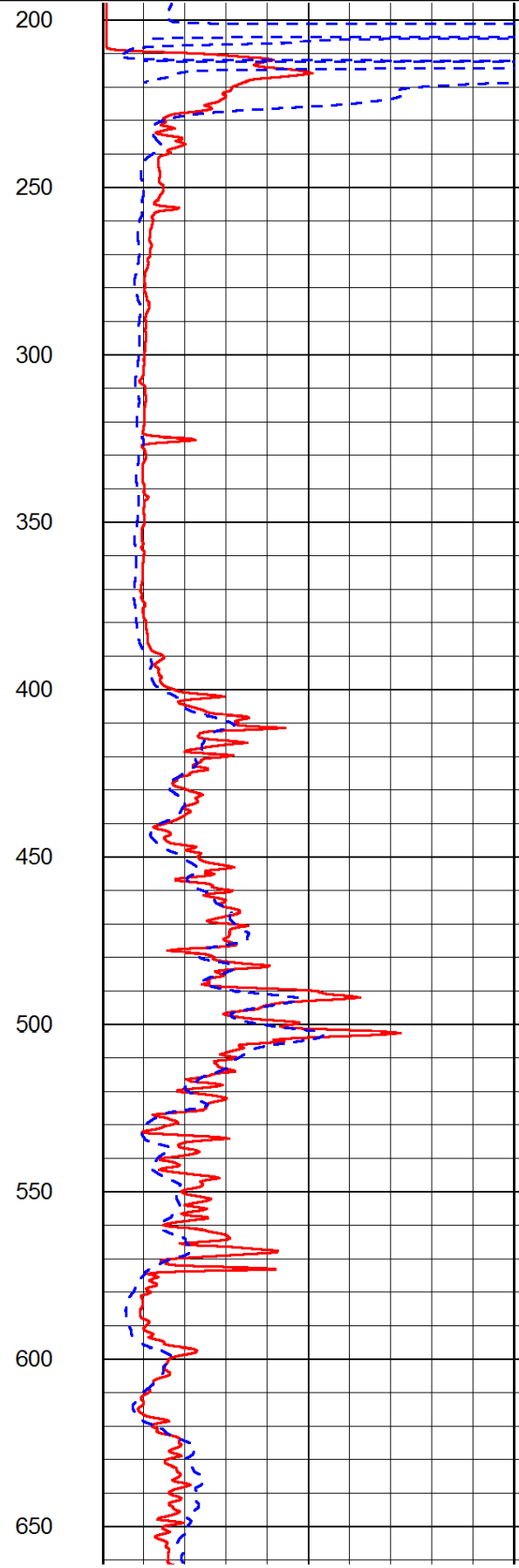
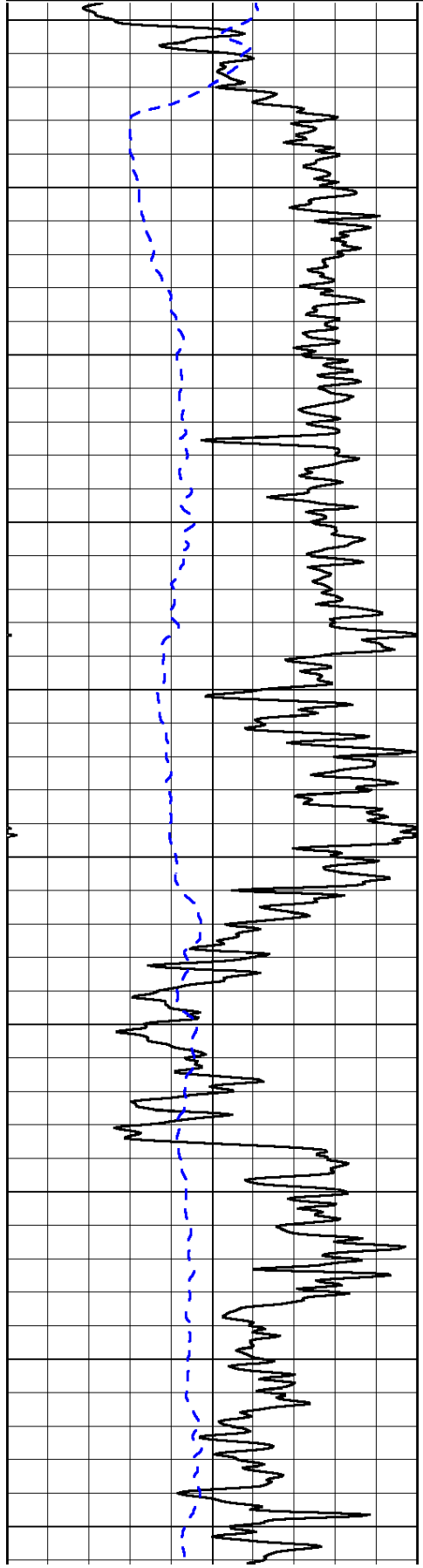
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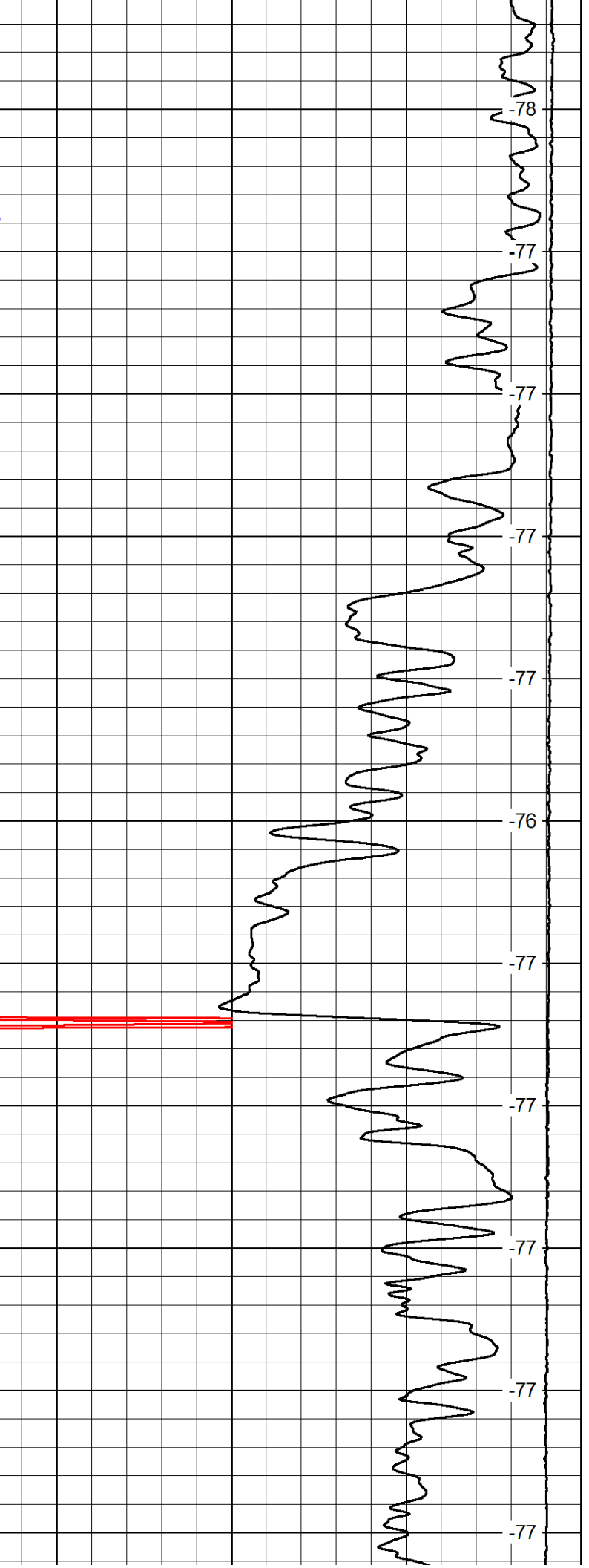
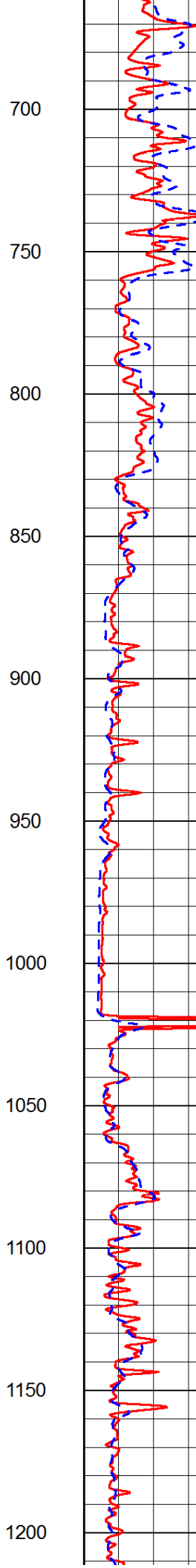
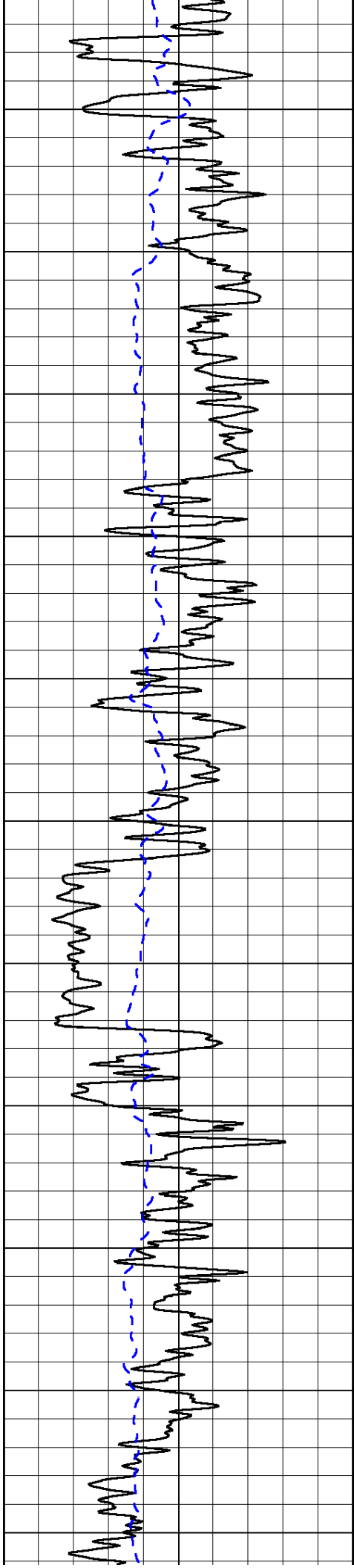
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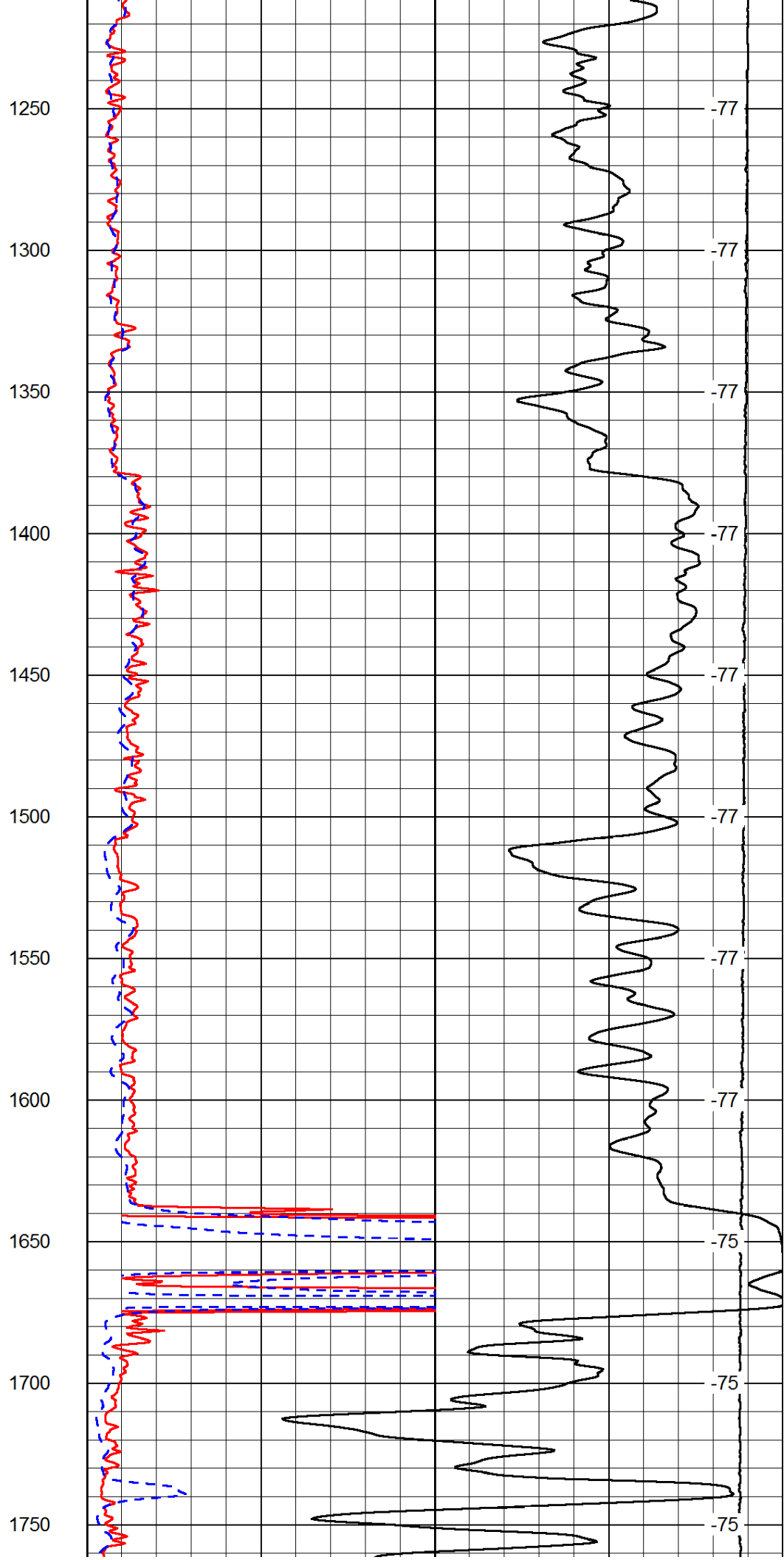
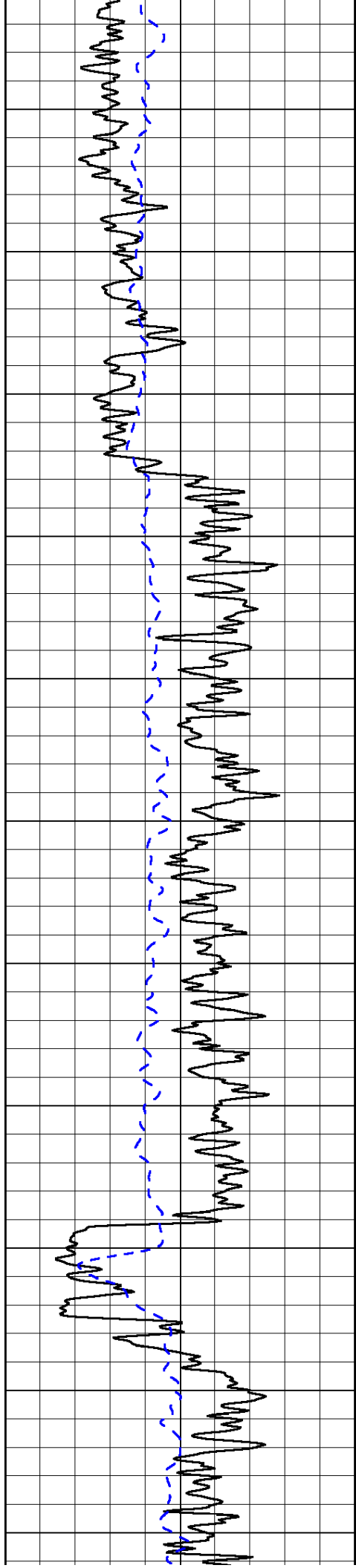
LSPD

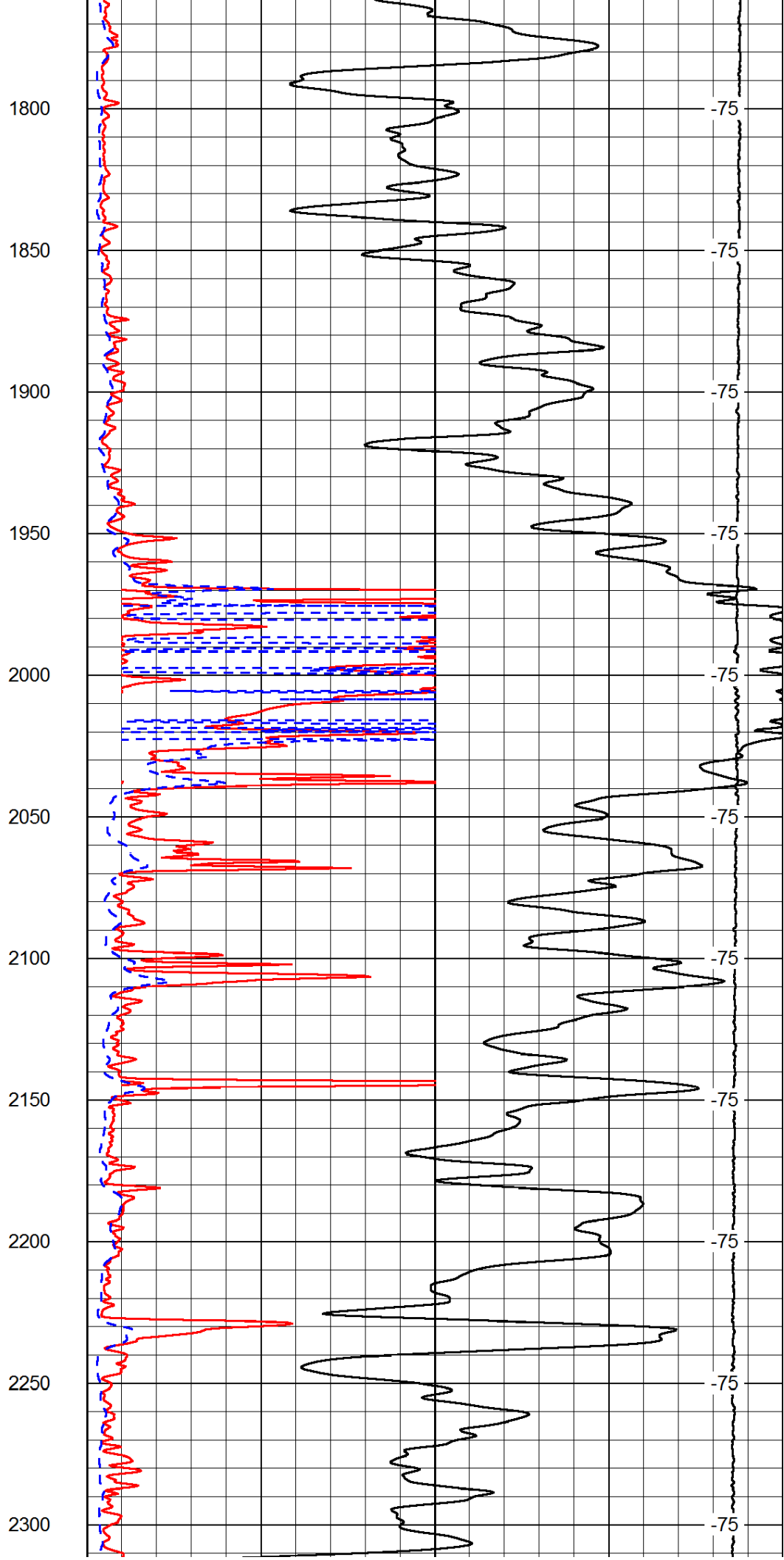
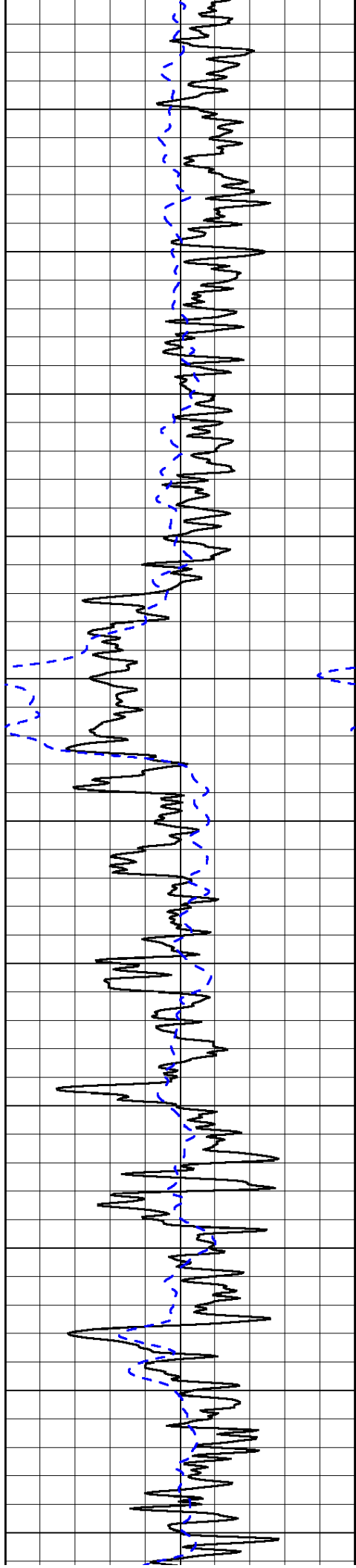
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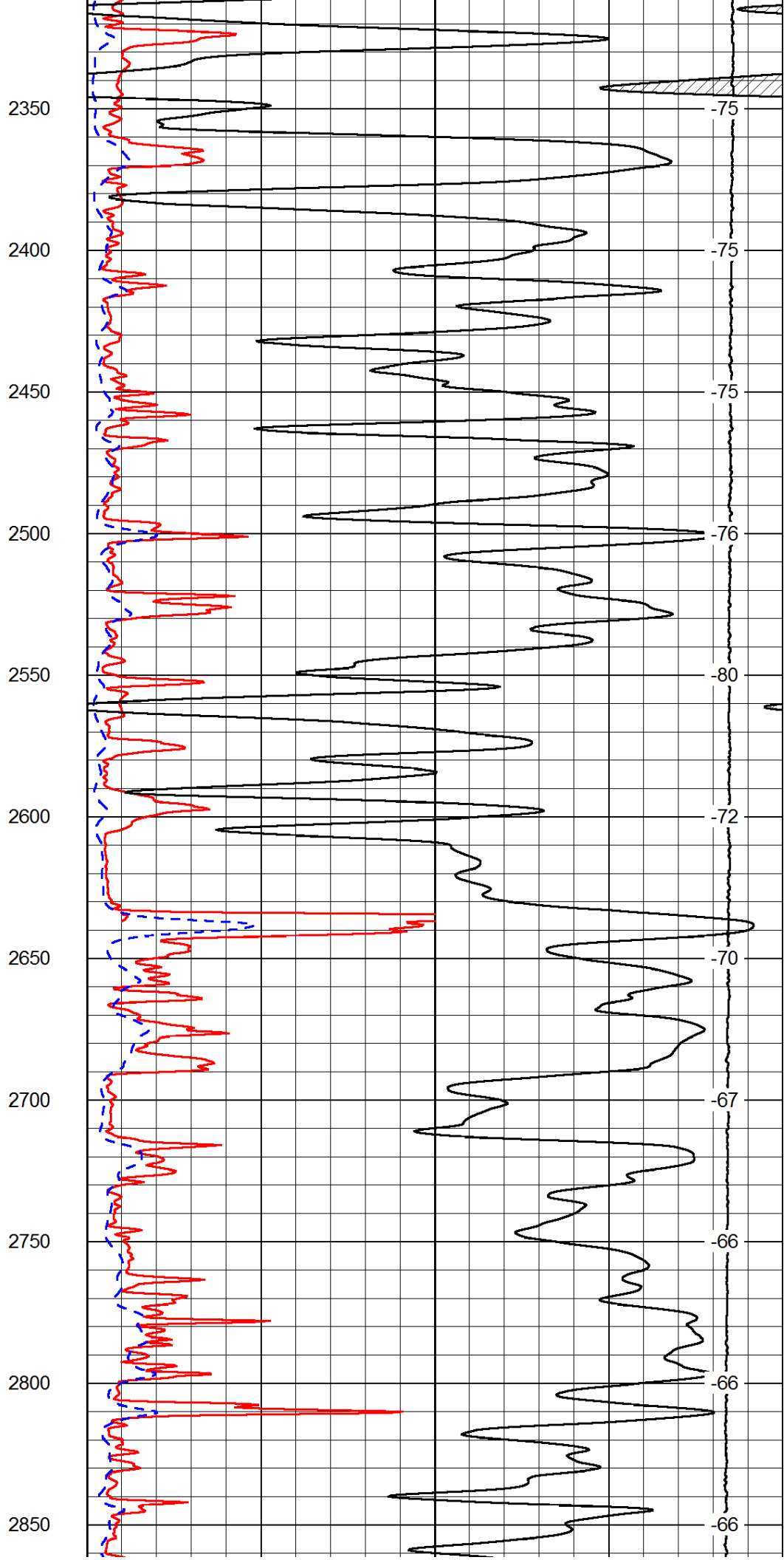
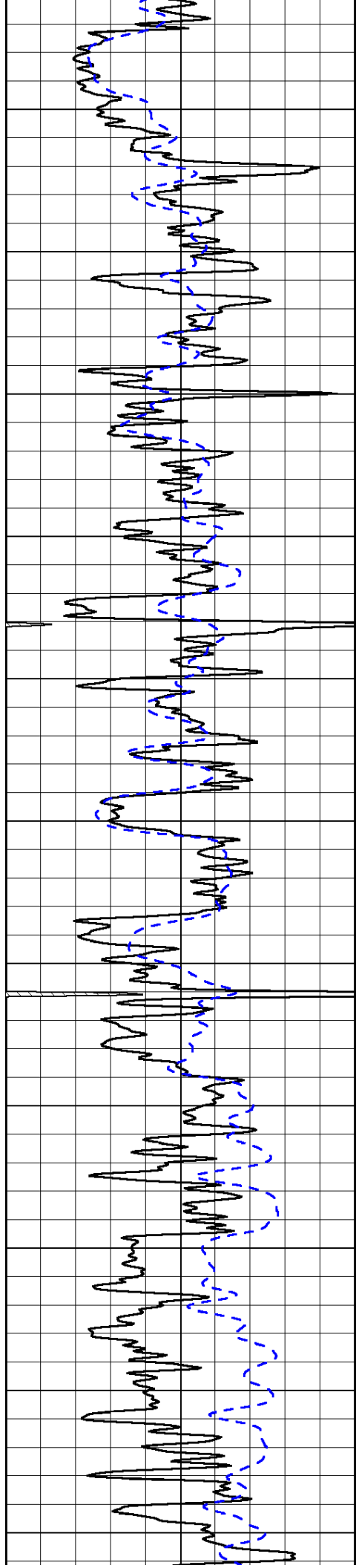
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50	Deep Resistivity	500

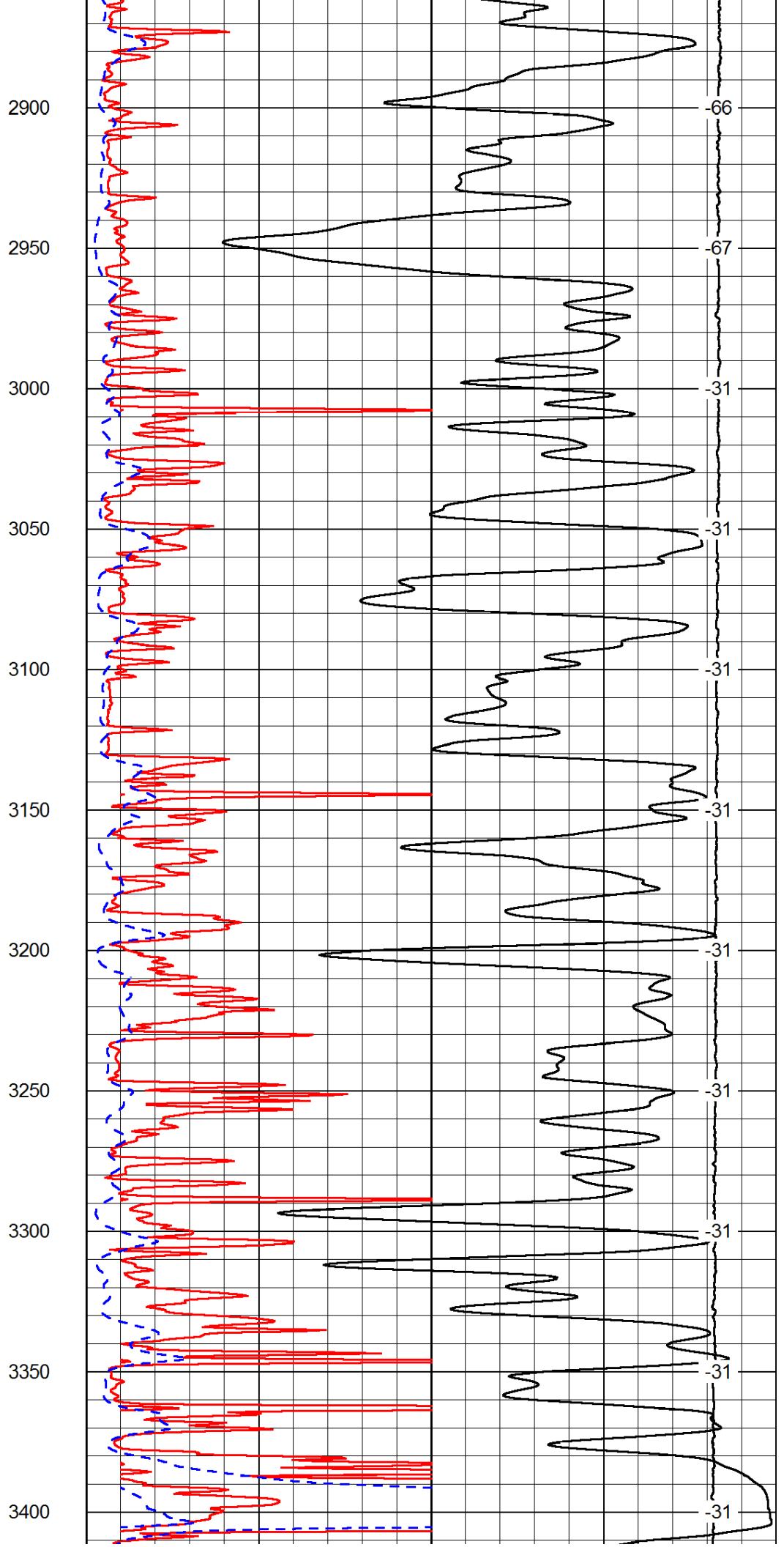
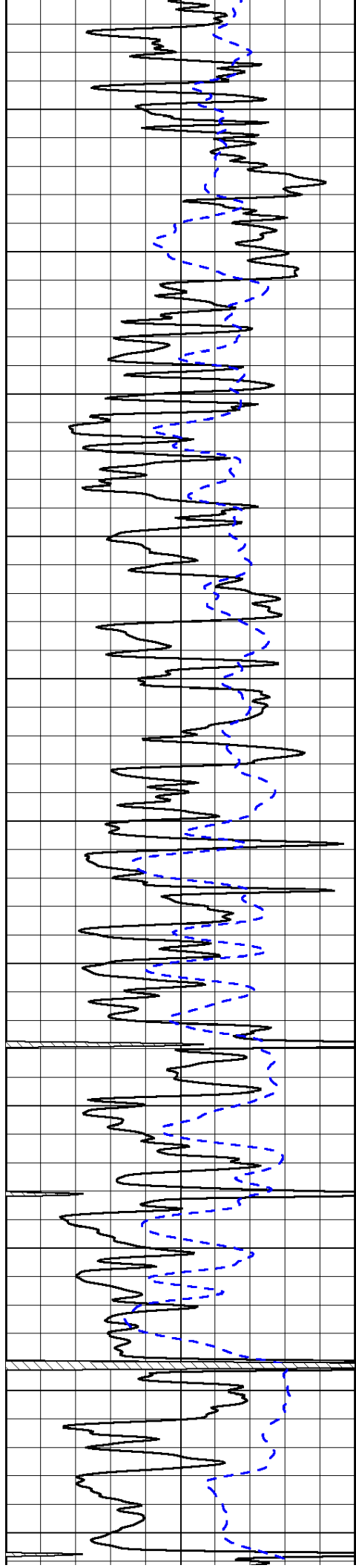


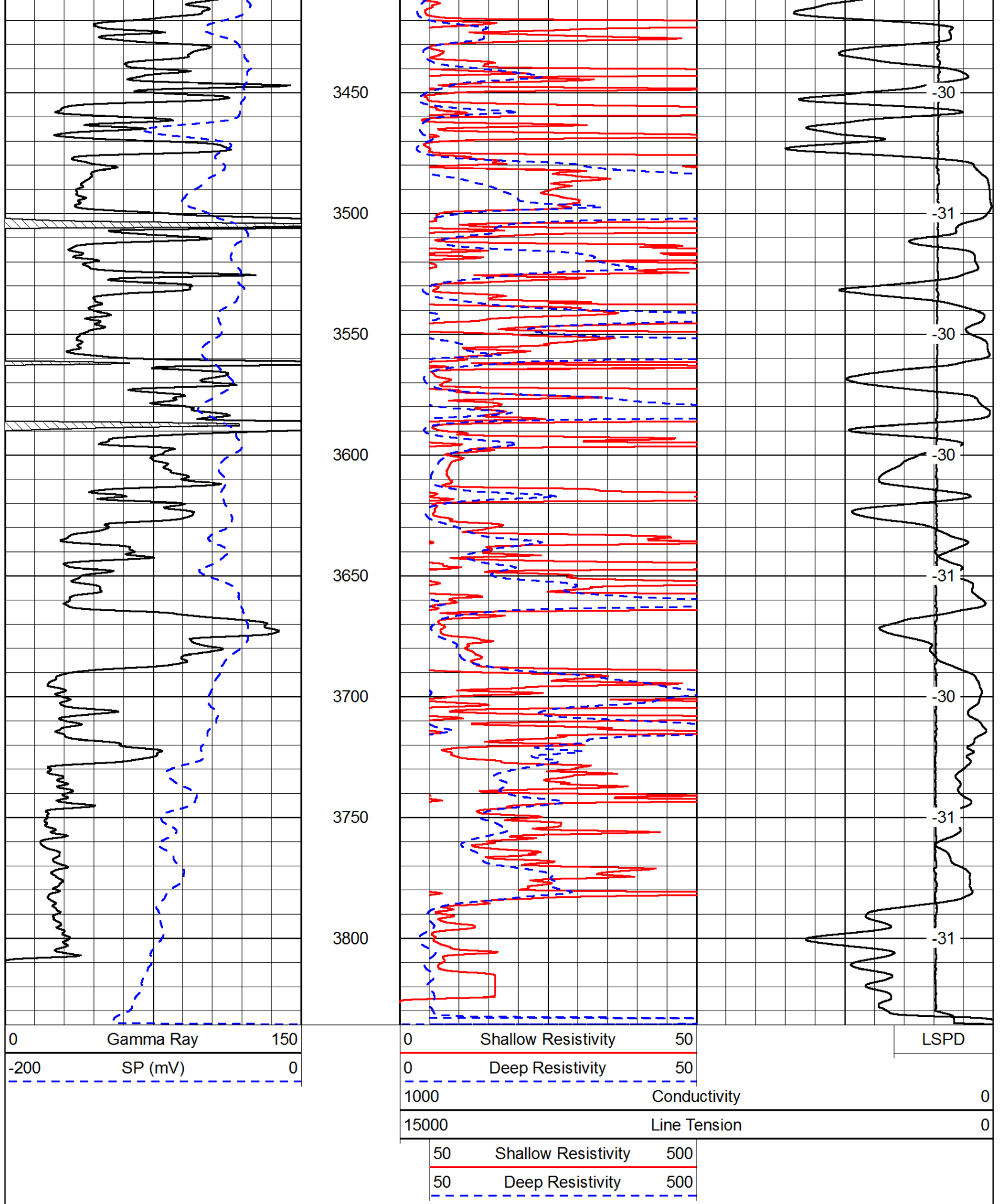












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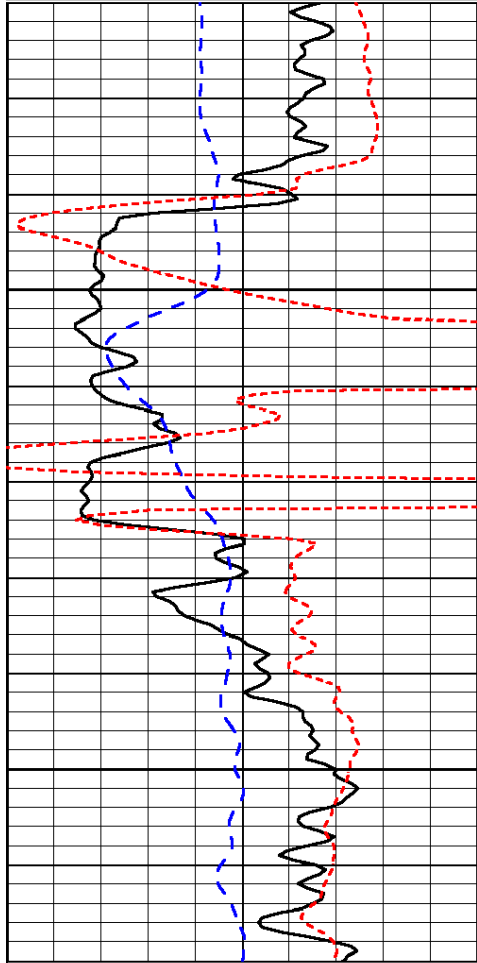
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Depth in Feet scaled 1:240

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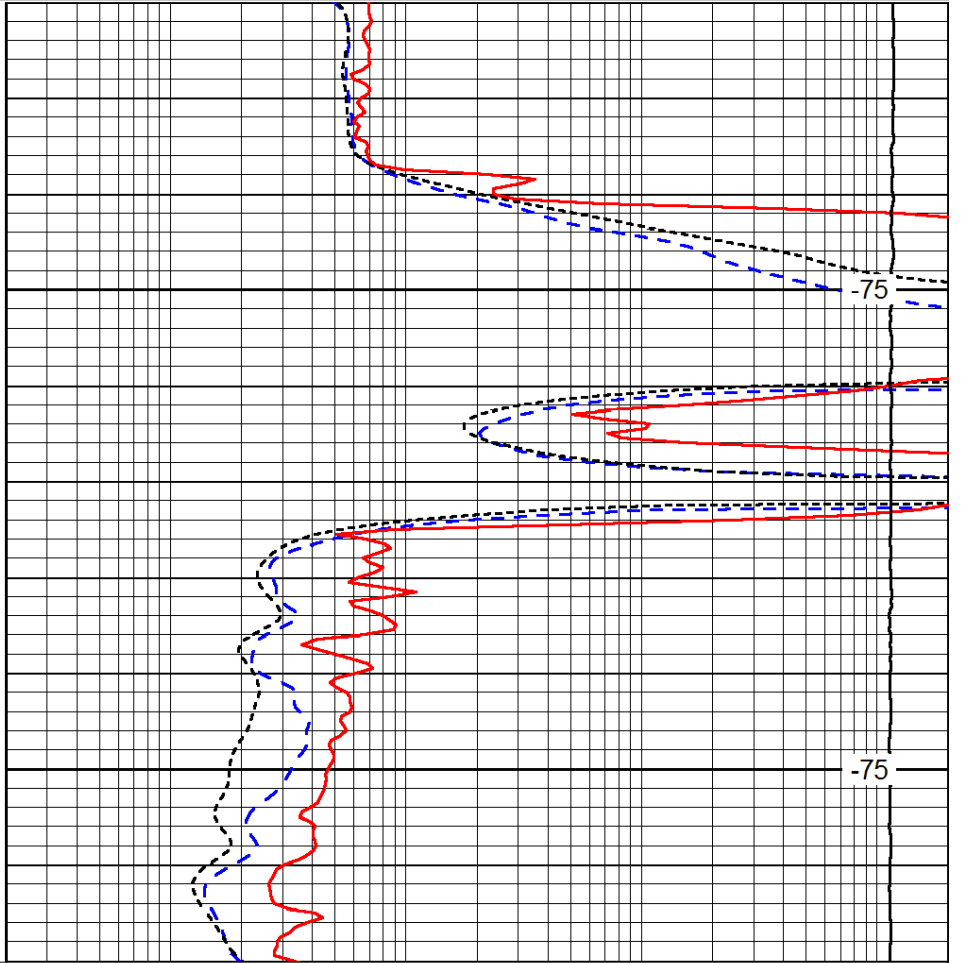
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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD



1650

1700



-75

-75

0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

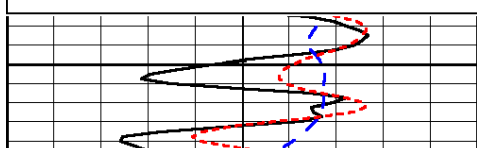
LSPD

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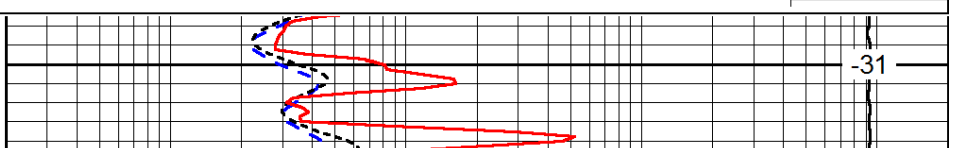
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-200	SP (mV)	0
-160	RxoRt	40

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0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

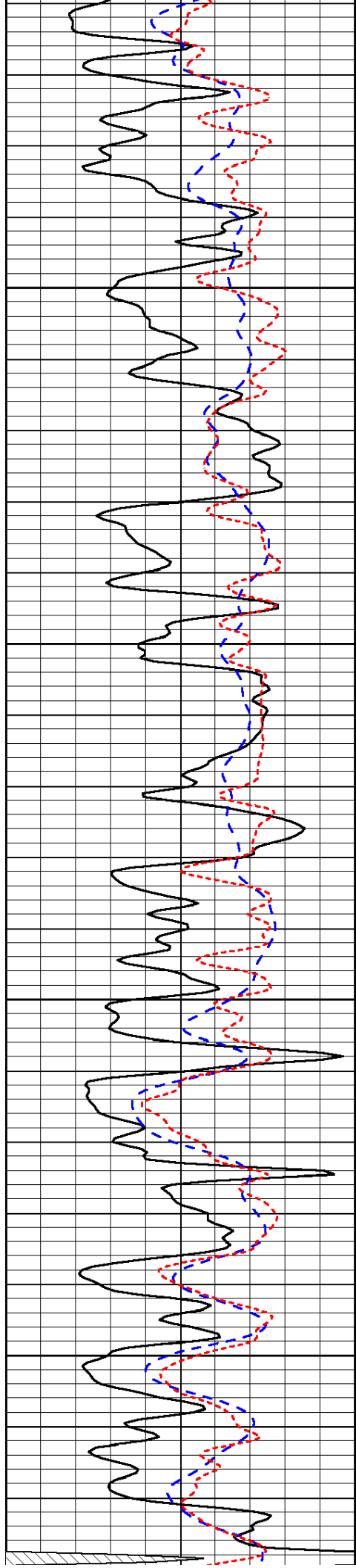
LSPD



3000



-31

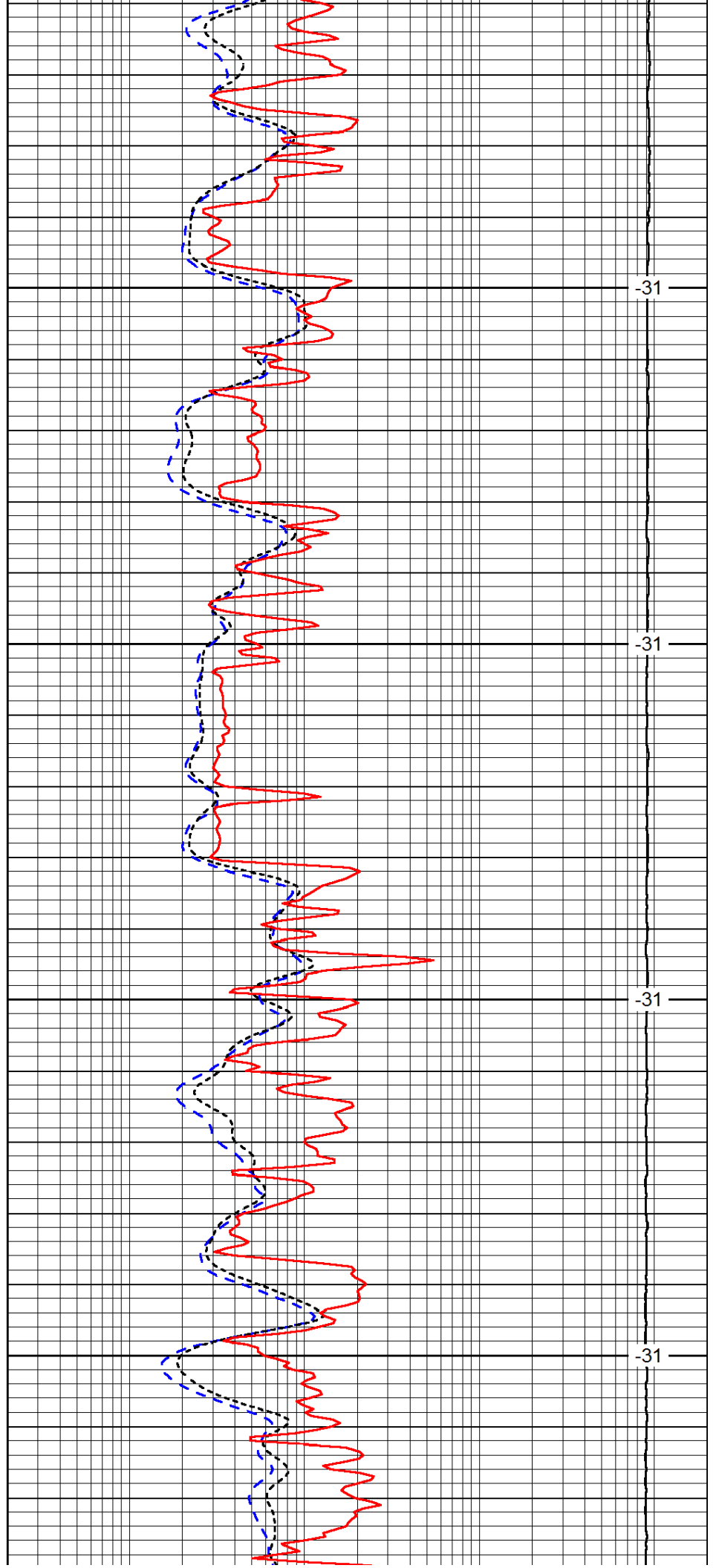


3050

3100

3150

3200

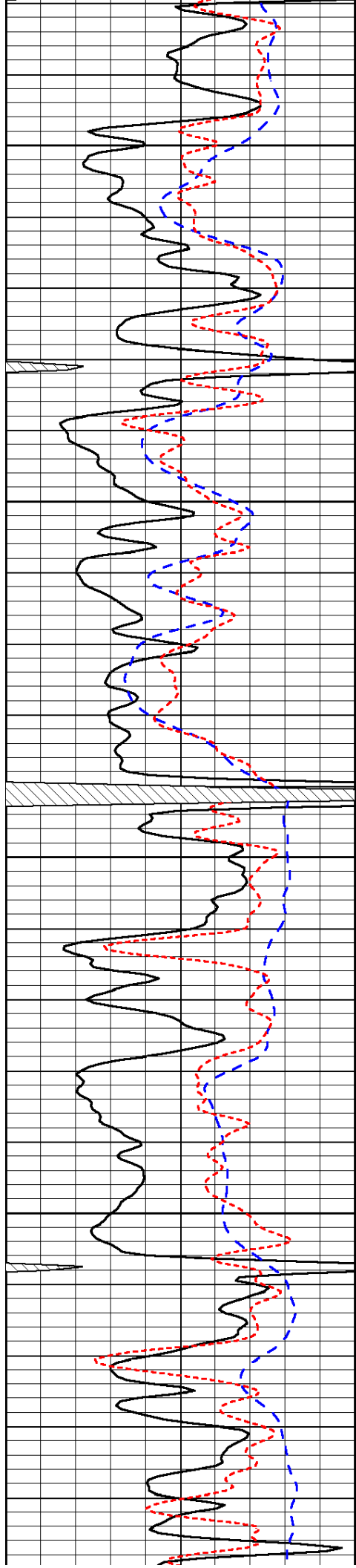


-31

-31

-31

-31



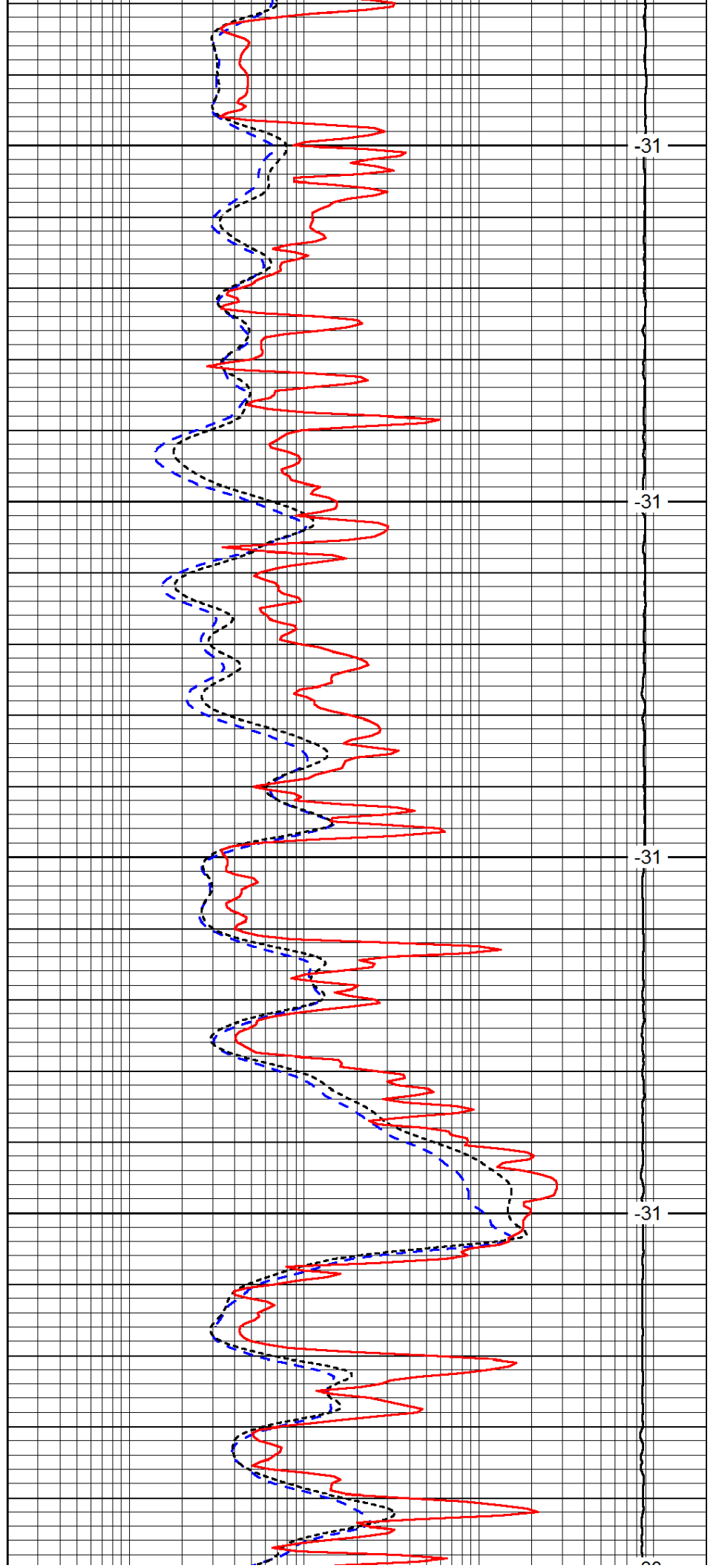
3250

3300

3350

3400

3450



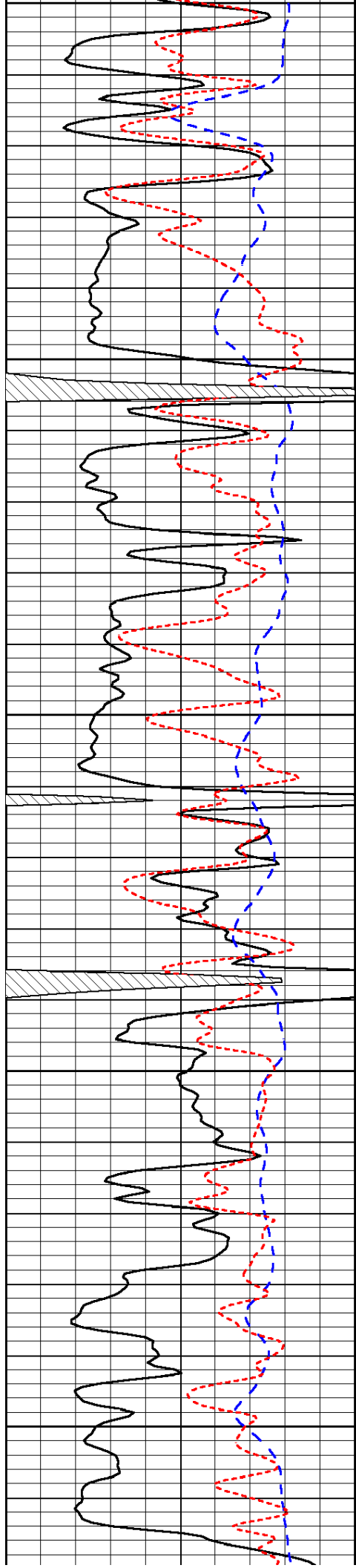
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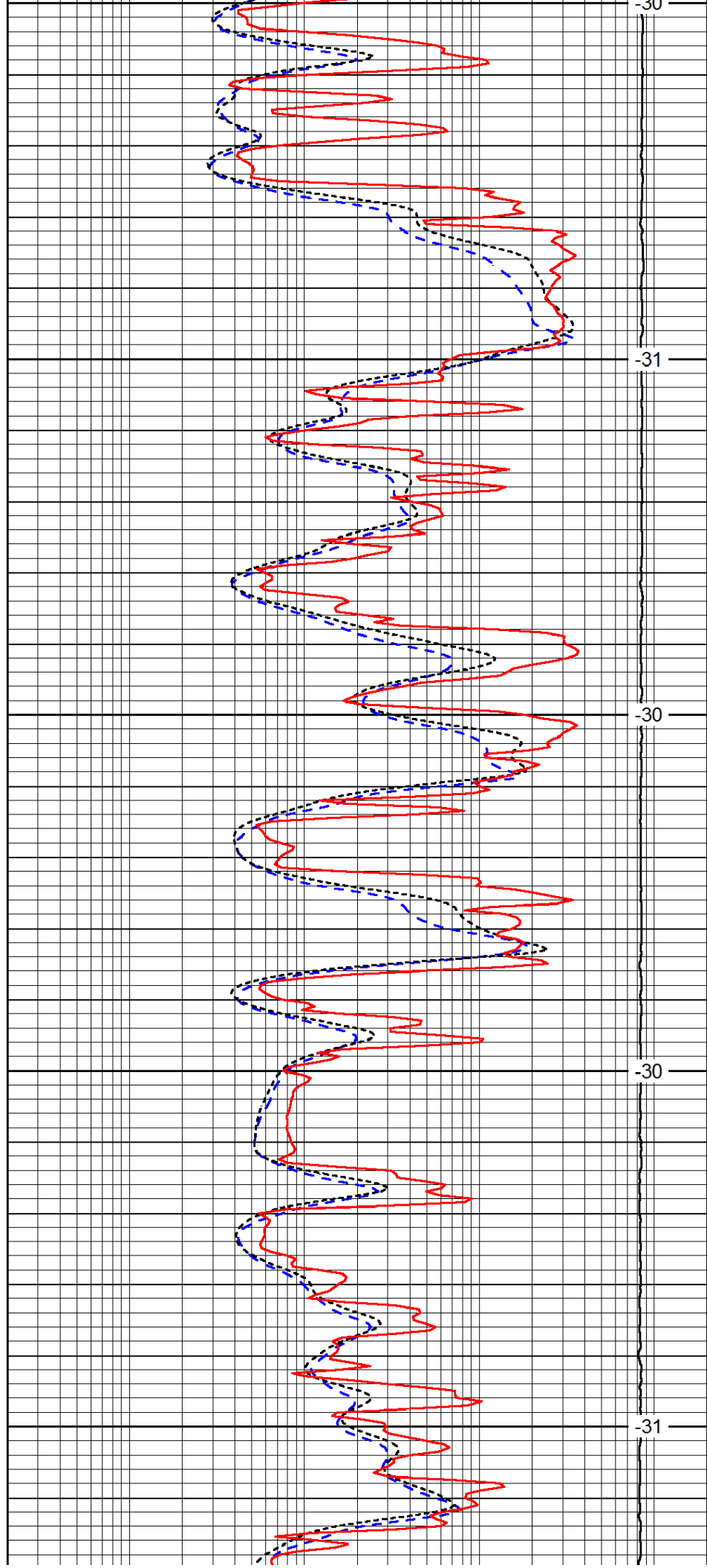
3450

3500

3550

3600

3650



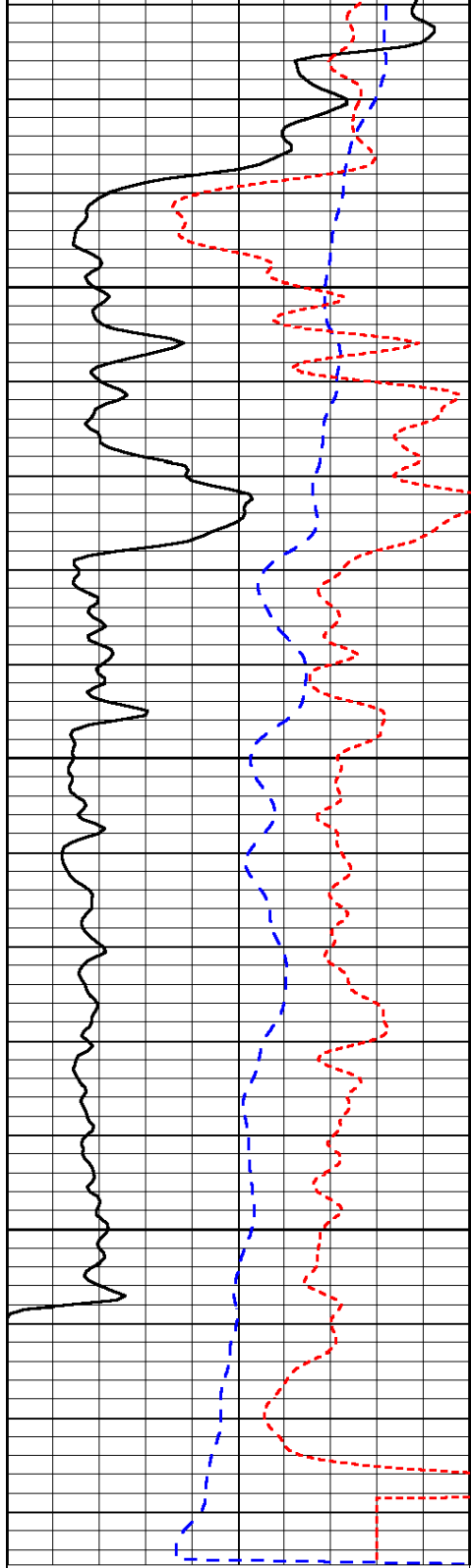
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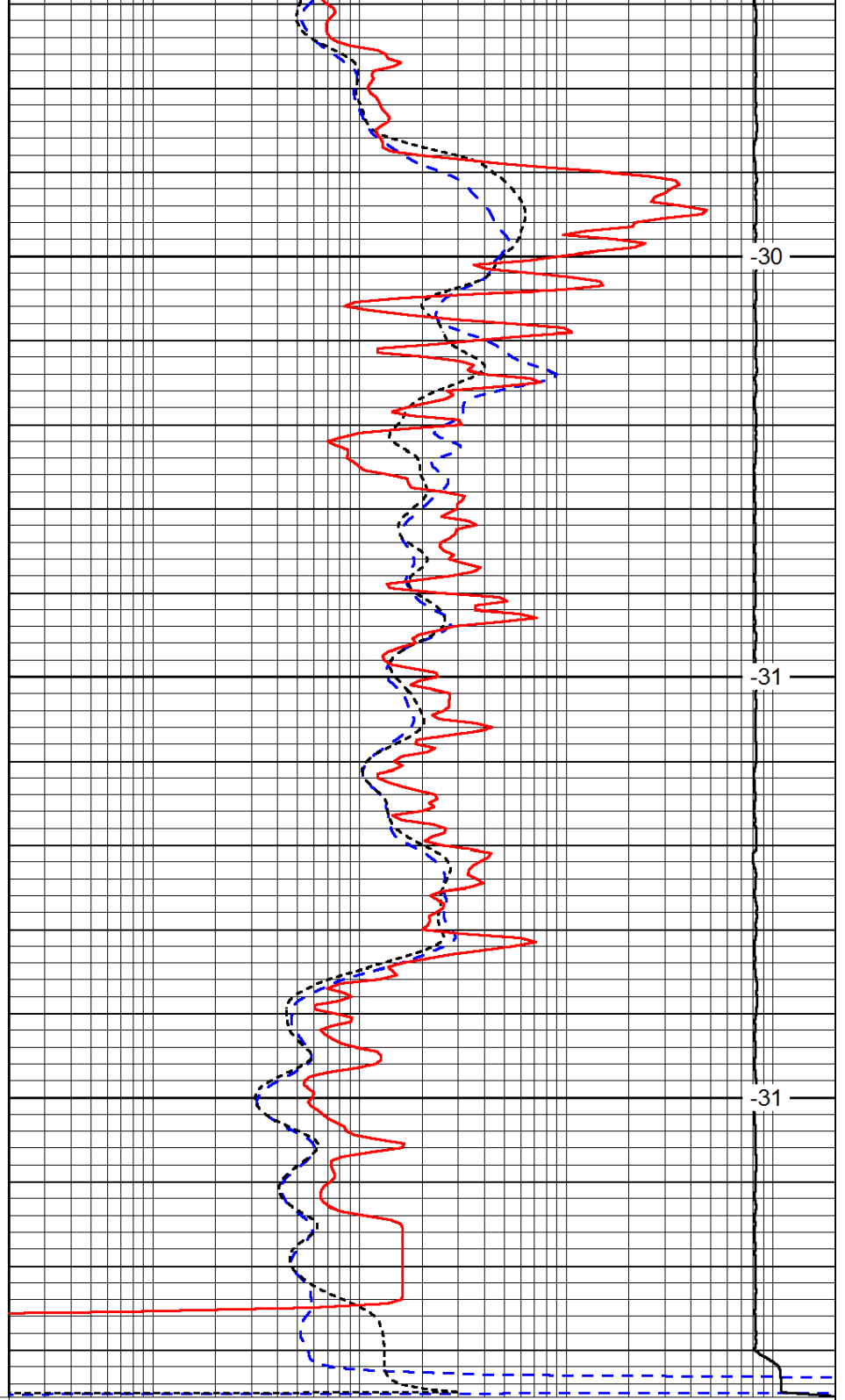


3700

3750

3800

0	Gamma Ray	150
-200	SP (mV)	0
-160	RxoRt	40



-30

-31

-31

0.2	Deep Resistivity	2000
0.2	Medium Resistivity	2000
0.2	Shallow Resistivity	2000
15000	Line Tension	0

LSPD



Pioneer Energy Services

Dual Compensated Porosity Log

15-163-24,174-00-00

API No.

Company **Carmen Schmitt, Inc.**
Well **Arpin "A" #1-6**
Field
County **Rooks** State **Kansas**

Location **SE NE NE SW
2,293' FSL & 2,555' FWL**
Sec: **6** Twp: **9S** Rge: **20W**

Other Services
DIL
MEL/BHCS

Elevation

K.B. 2132
D.F.
G.L. 2127

Ground Level
Kelly Bushing
Kelly Bushing

Elevation 2127
5 Ft. Above Perm. Datum

Date **2/17/2014**

Run Number **One**

Type Log **CNL / CDL**

Depth Driller **3830**

Depth Logger **3830**

Bottom Logged Interval **3809**

Top Logged Interval **3000**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **1300**

Density **9.3**

Level **Full**

Max. Rec. Temp. F **114**

Operating Rig Time **4 Hours**

Equipment -- Location **108 Hays**

Recorded By **J. Long**

Witnessed By **Dave Goldak**

Recorded By

Witnessed By

Witnessed By

Witnessed By

Witnessed By

Witnessed By

Witnessed By

Witnessed By

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	208	8.625	24#	00	208
2	7.875	208	3830				

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Comments

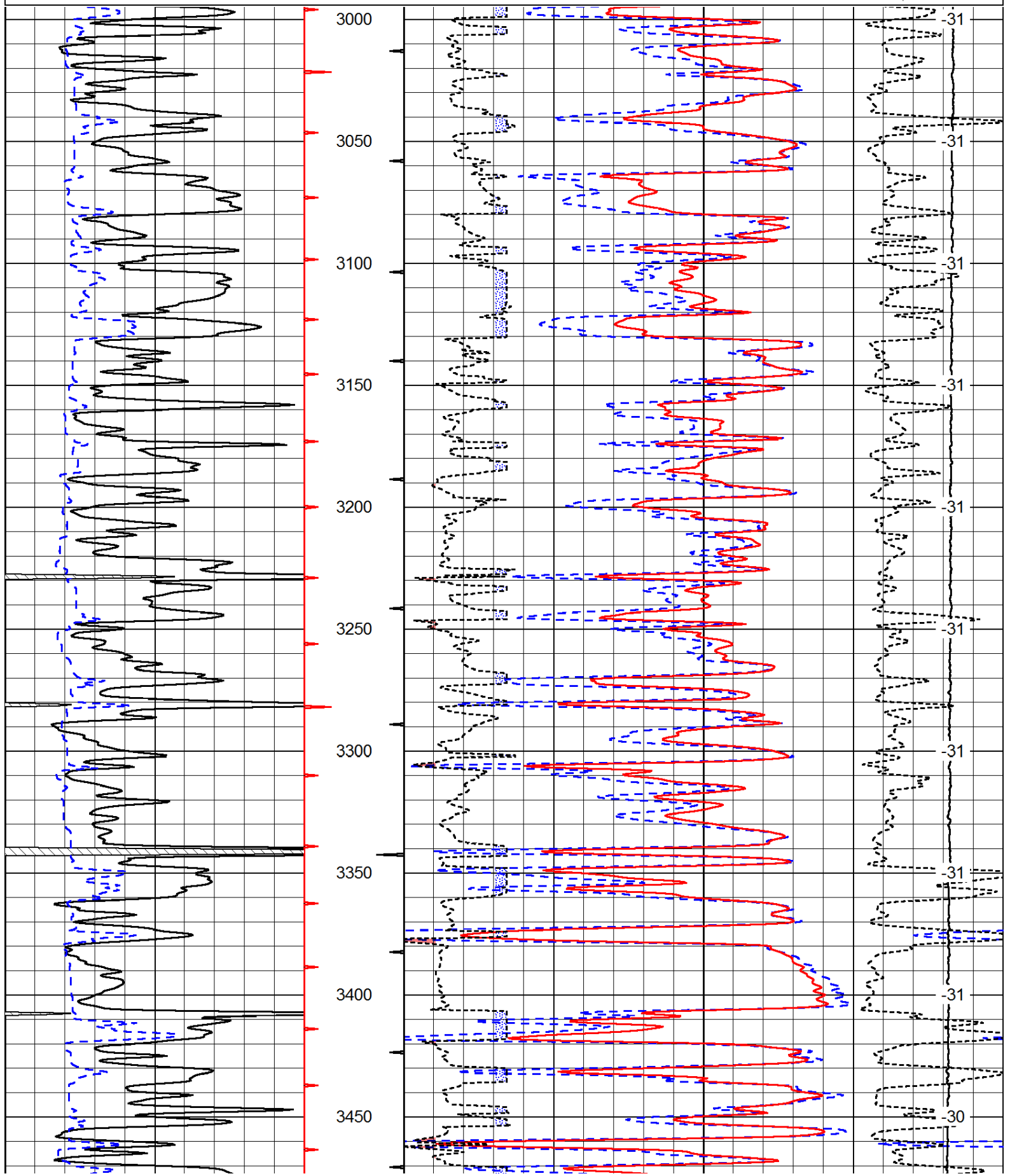
Thank you for using Pioneer Energy Services
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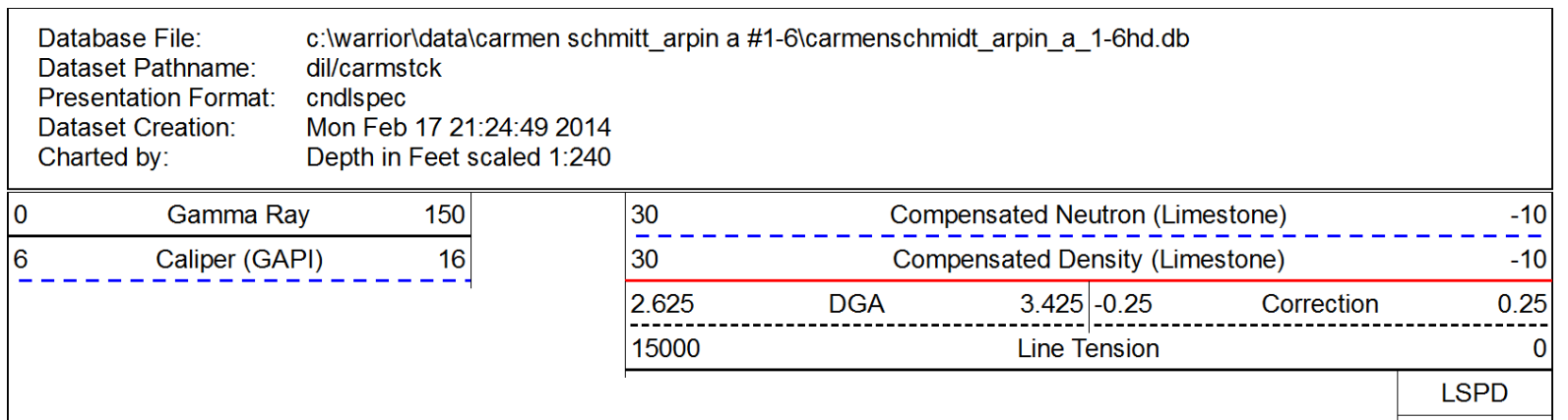
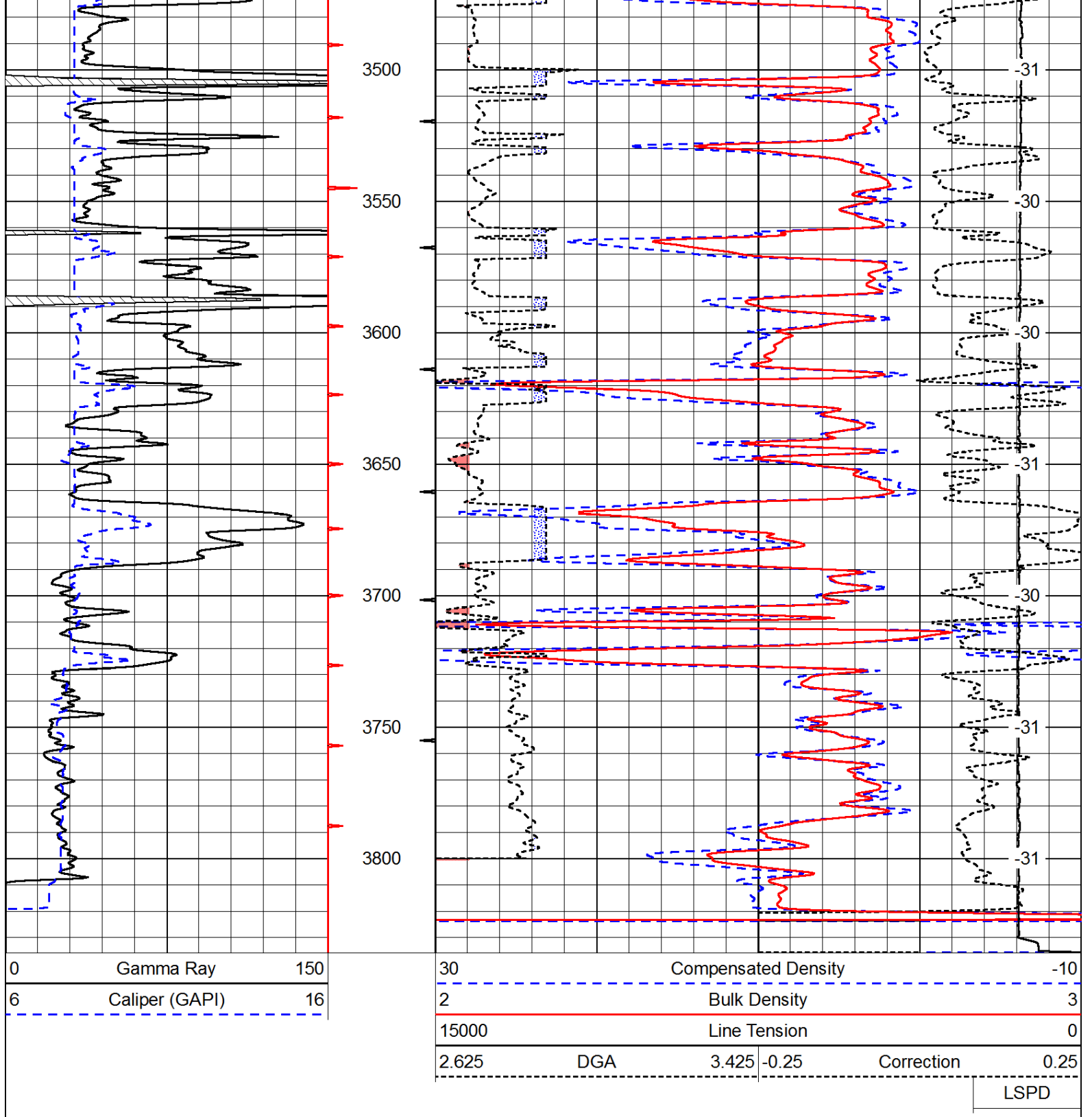
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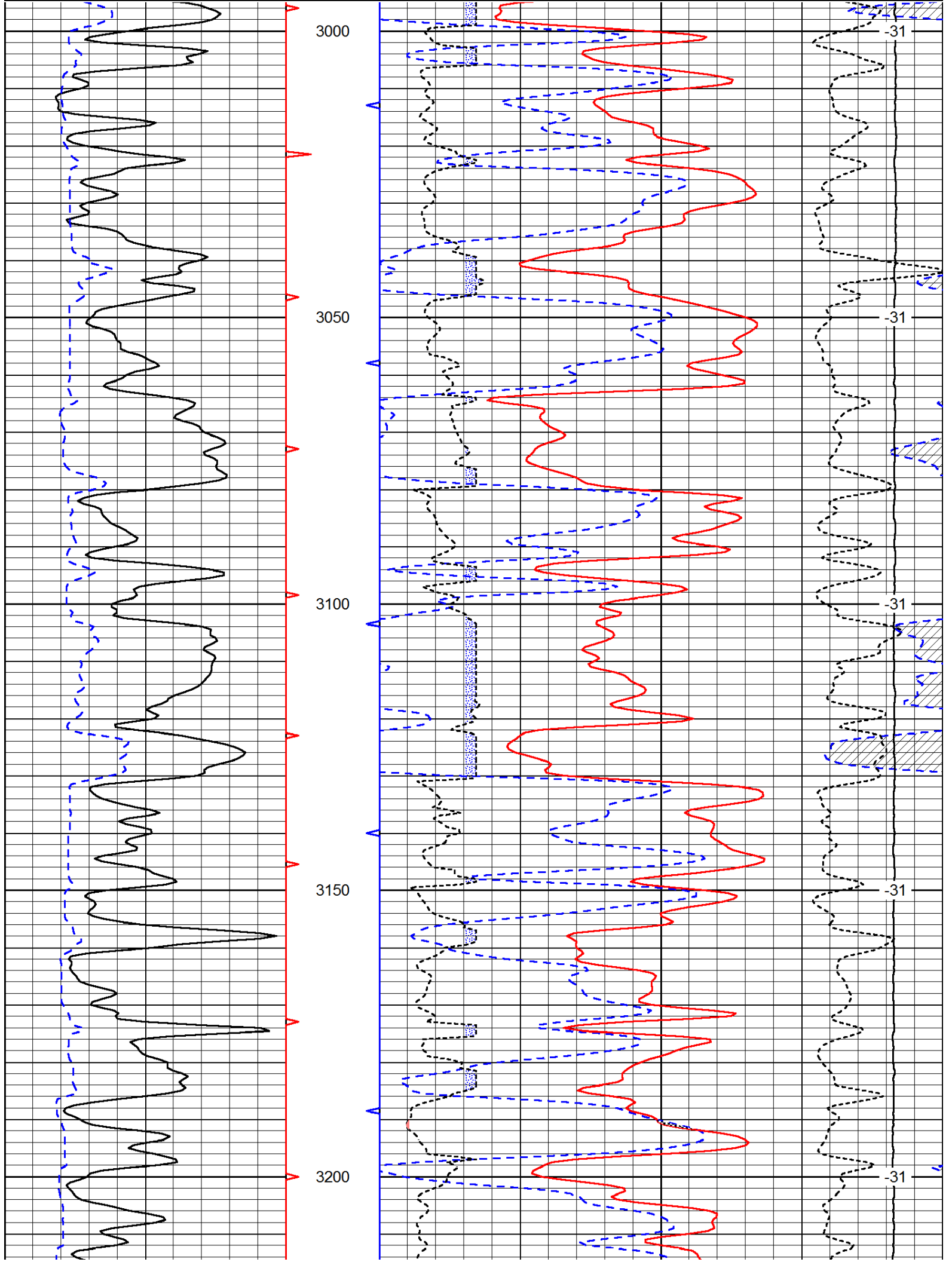
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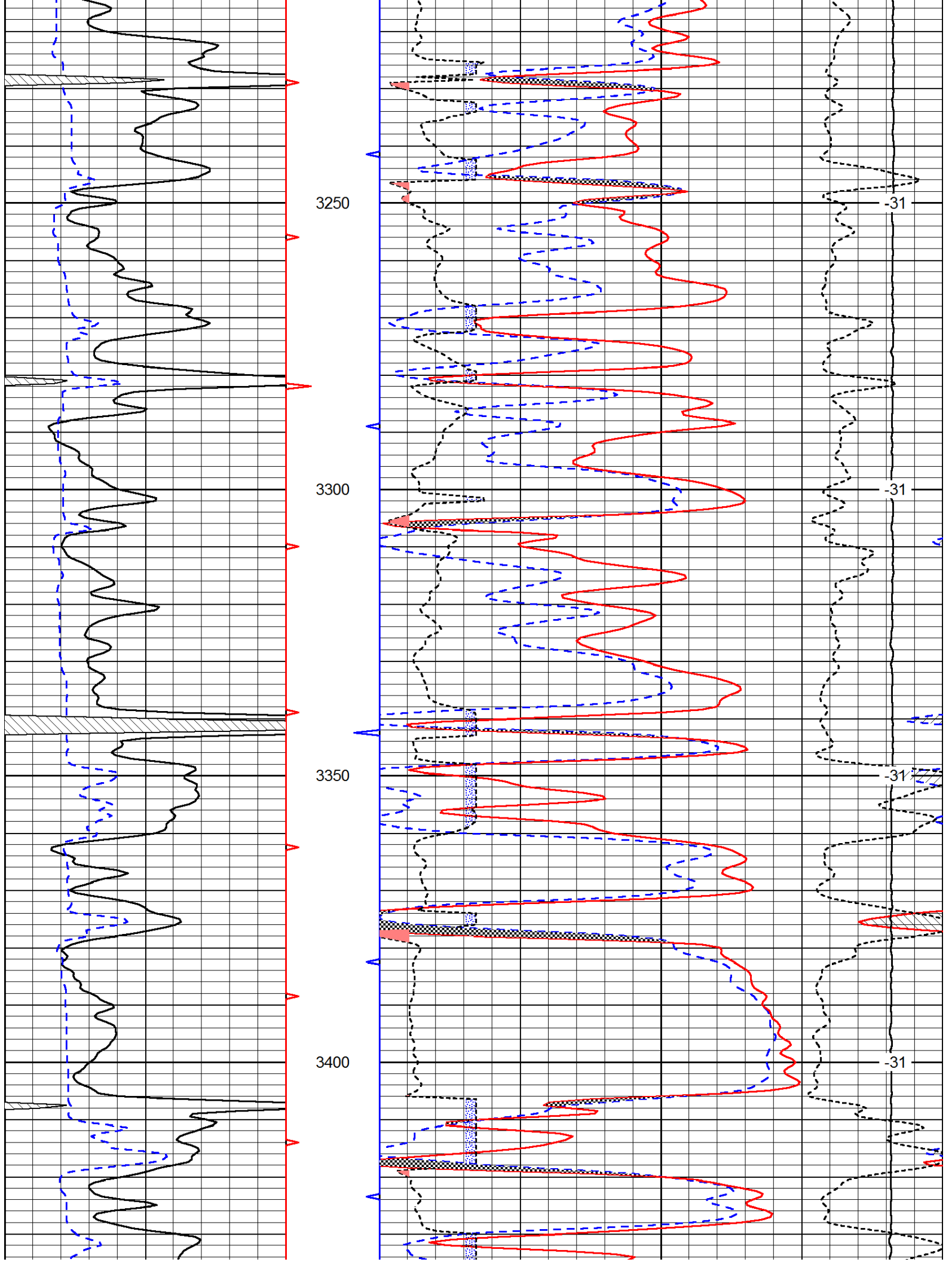
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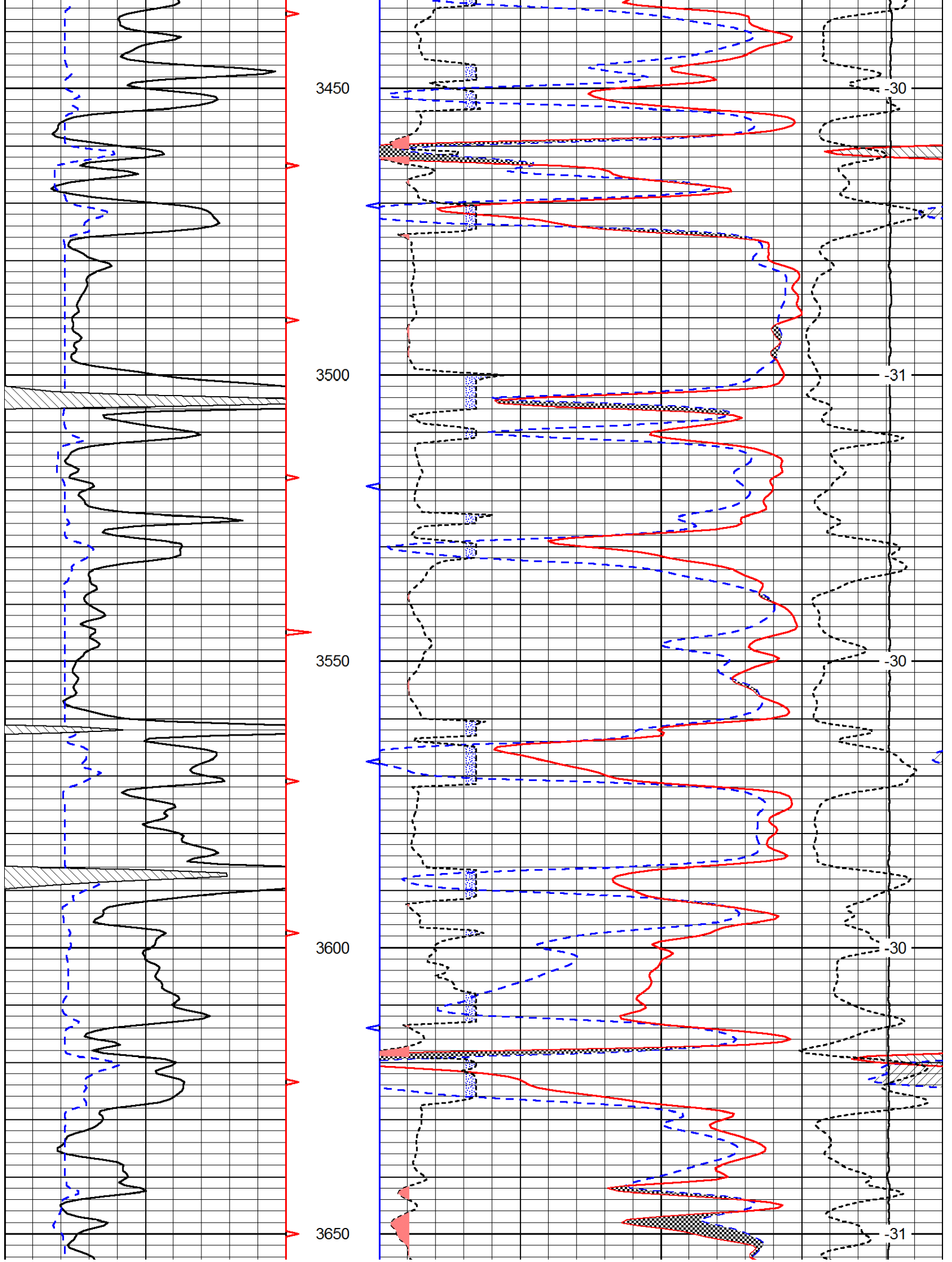
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			Correction
			0.25
LSPD			

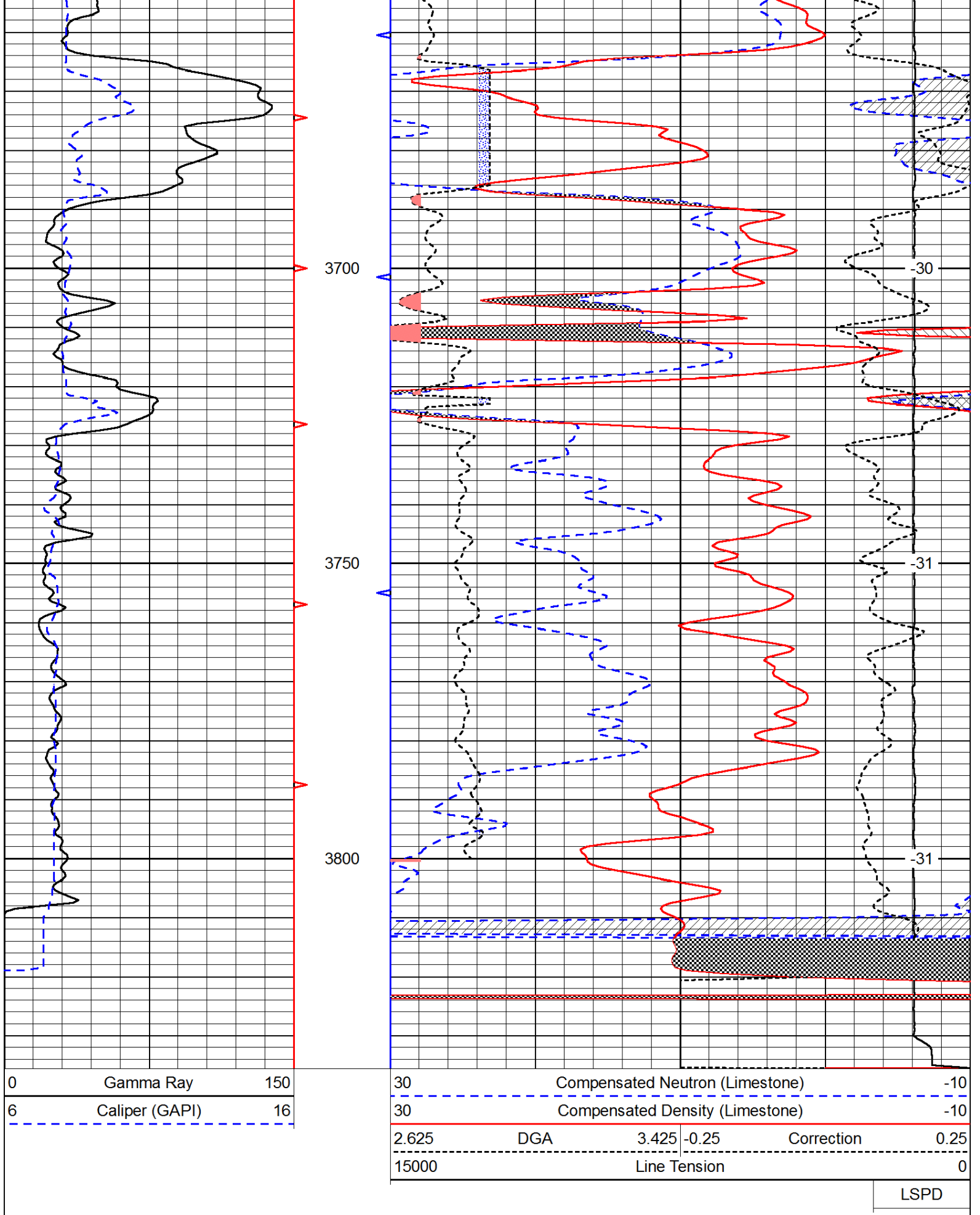














Pioneer Energy Services

Microresistivity Log

15-163-24,174-00-00

API No.

Company **Carmen Schmitt, Inc.**

Well **Arpin "A" #1-6**

Field

County **Rooks** State

Kansas

Location

**SE NE NE SW
2,293' FSL & 2,555' FWL**

Sec: **6** Twp: **9S** Rge: **20W**

Other Services
CNL/CDL
DIL/BHCS

Permanent Datum **Ground Level** Elevation **2127**

Log Measured From **Kelly Bushing** 5 Ft. Above Perm. Datum

Elevation
K.B. 2132
D.F. 2127
G.L. 2127

Drilling Measured From **Kelly Bushing**

Date **2/17/2014**

Run Number **Two**

Depth Driller **3830**

Depth Logger **3830**

Bottom Logged Interval **3829**

Top Log Interval **3000**

Casing Driller **8.625 @ 208**

Casing Logger **208**

Bit Size **7.875**

Type Fluid in Hole **Chemical**

Salinity, ppm CL **1300**

Density / Viscosity **9.3 58**

pH / Fluid Loss **10.5 6.0**

Source of Sample **Flowline**

Rm @ Meas. Temp **.80 @ 66**

Rmf @ Meas. Temp **.60 @ 66**

Rmc @ Meas. Temp **1.08 @ 66**

Source of Rmf / Rmc **Charts**

Rm @ BHT **.46 @ 114**

Operating Rig Time **4 Hours**

Max Rec. Temp. F **114**

Equipment Number **108**

Location **Hays**

Recorded By **J. Long**

Witnessed By **Dave Goldak**

<<< Fold Here >>>

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Comments

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785 625 3858

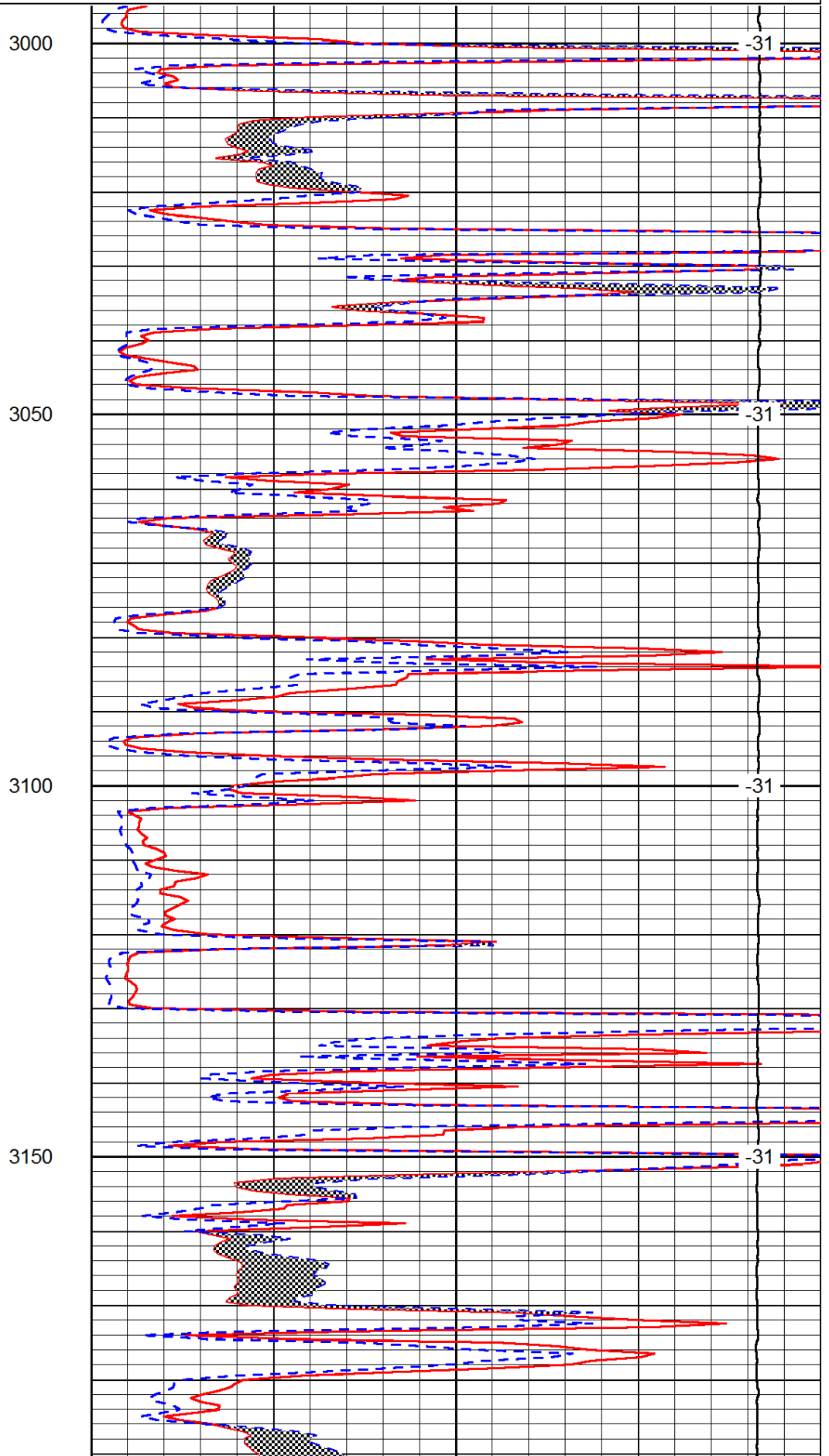
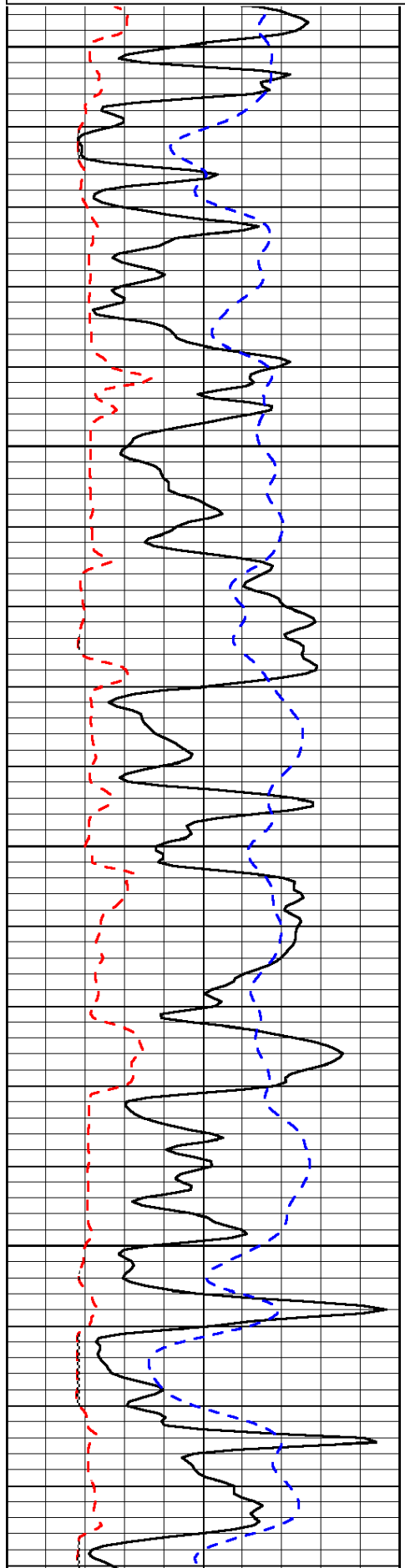
Damar, 1 South on 18 Highway to S Road, 1 1/2 West, 1/2 South, East Into

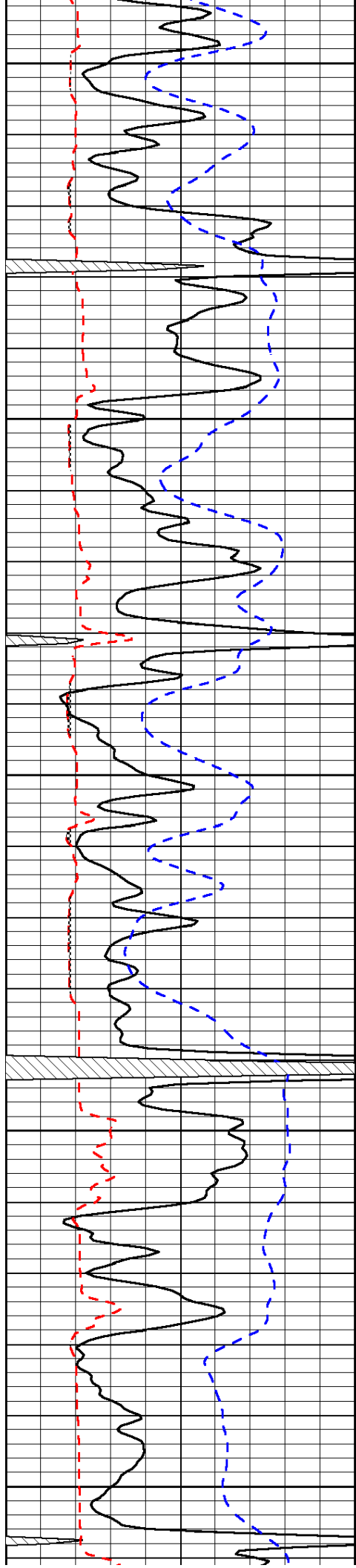
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Dataset Pathname: dil/carmstck
Presentation Format: micro
Dataset Creation: Mon Feb 17 21:24:49 2014
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
6	Micro Log Caliper (GAPI)	16
-200	SP (mV)	0

0	Micro Inverse 1 X 1	40
0	Micro Normal 2"	40
15000	Line Weight	0

LSPD





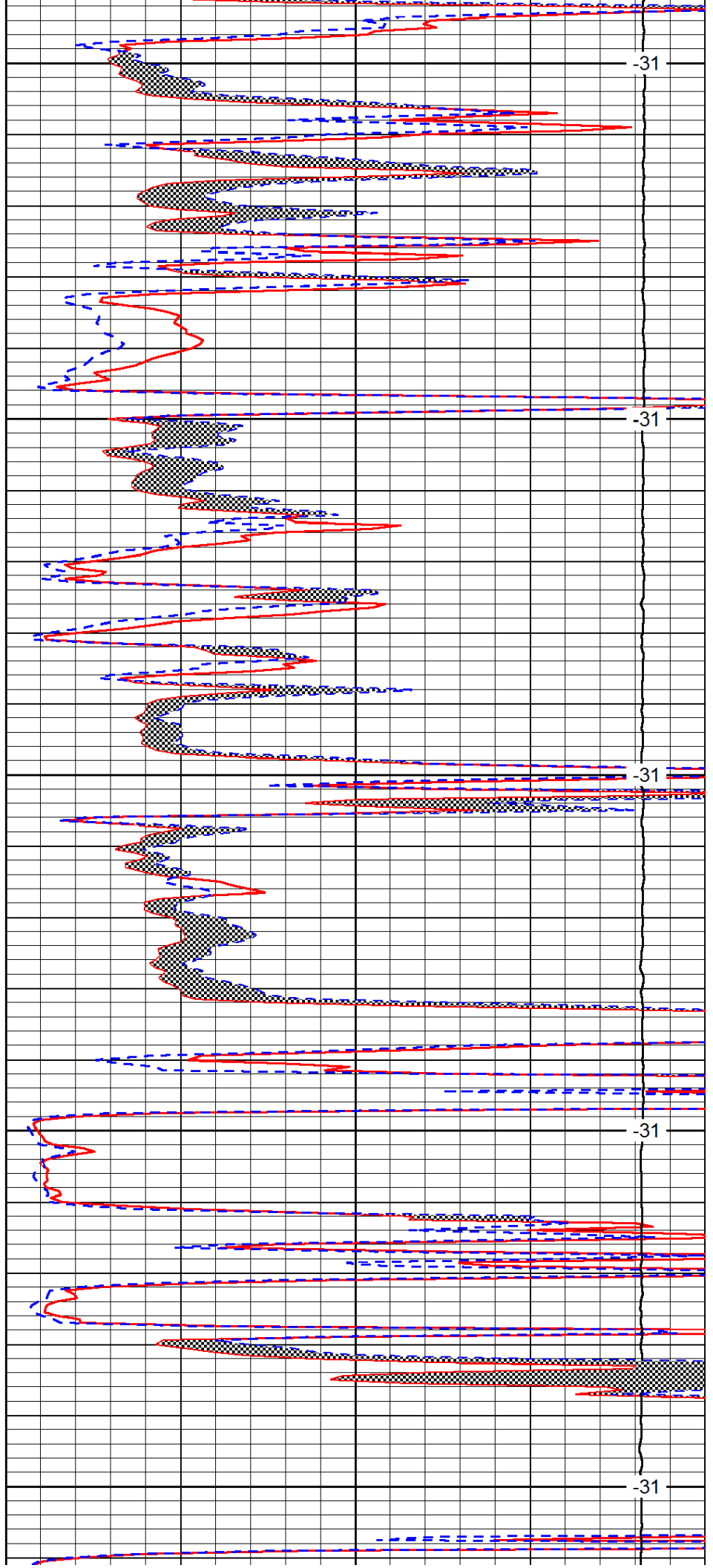
3200

3250

3300

3350

3400



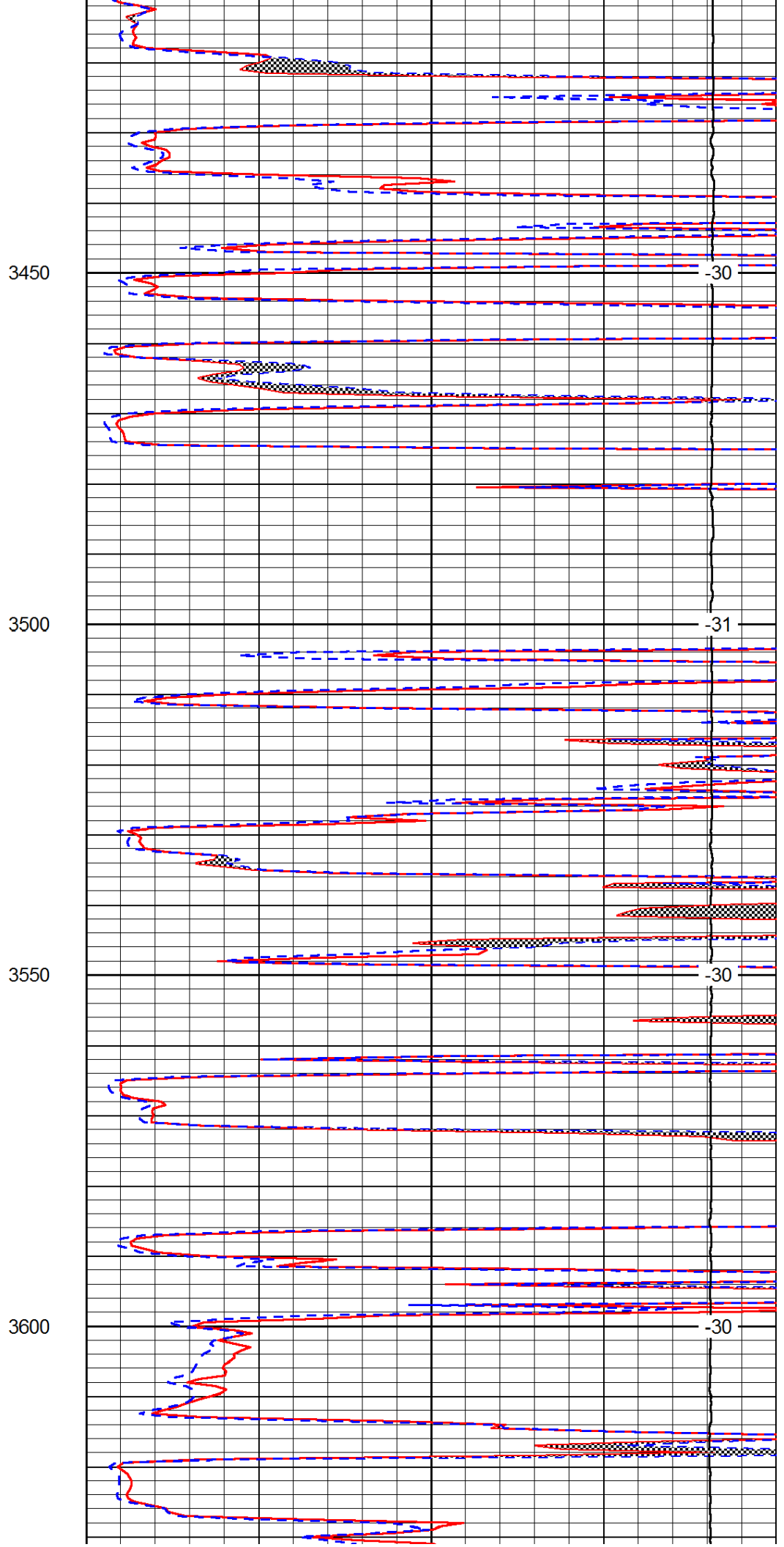
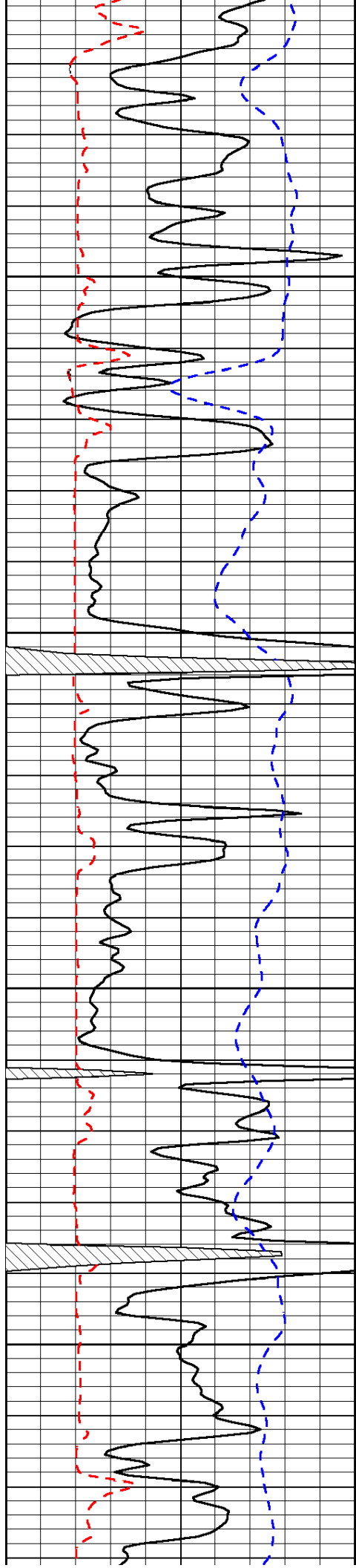
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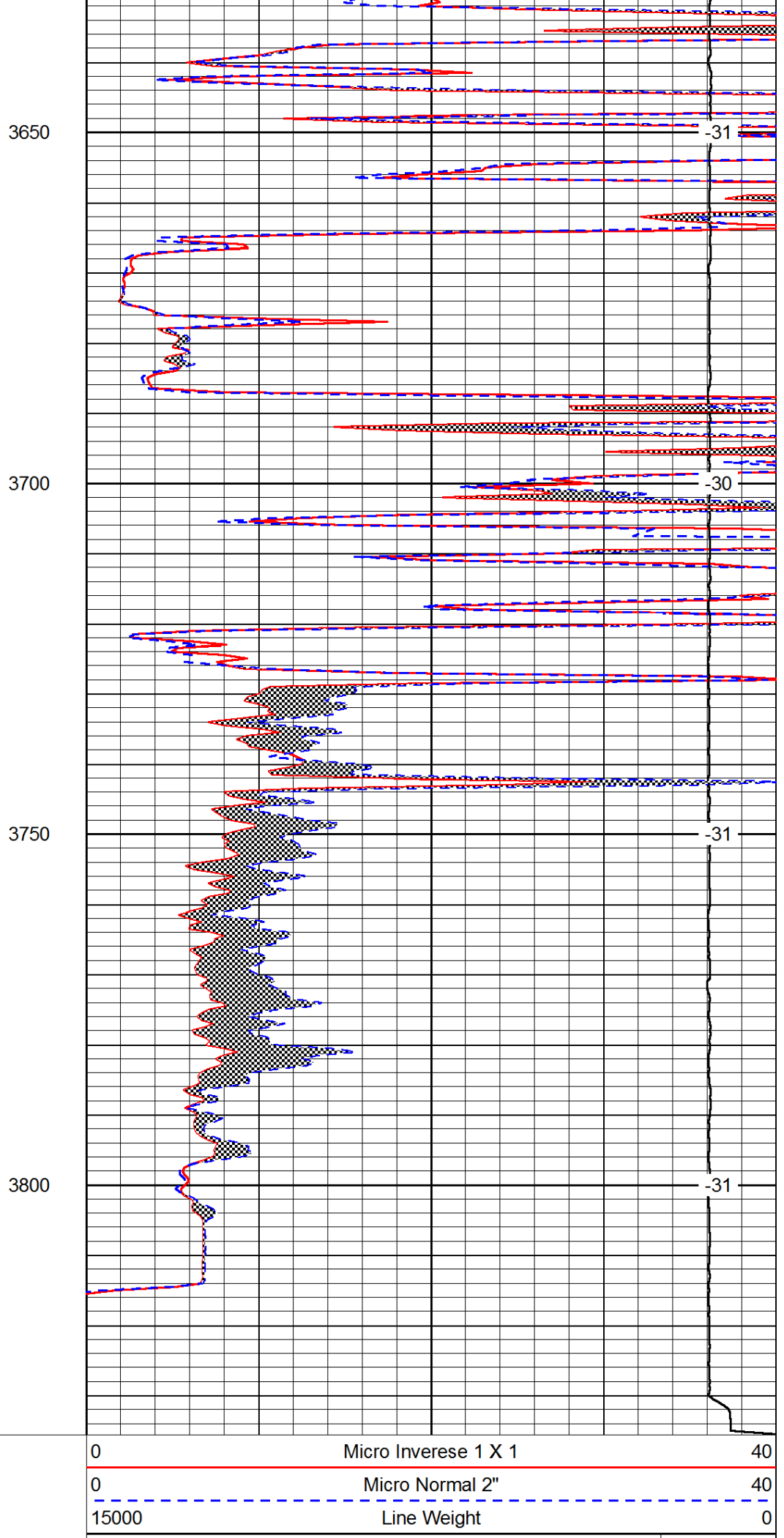
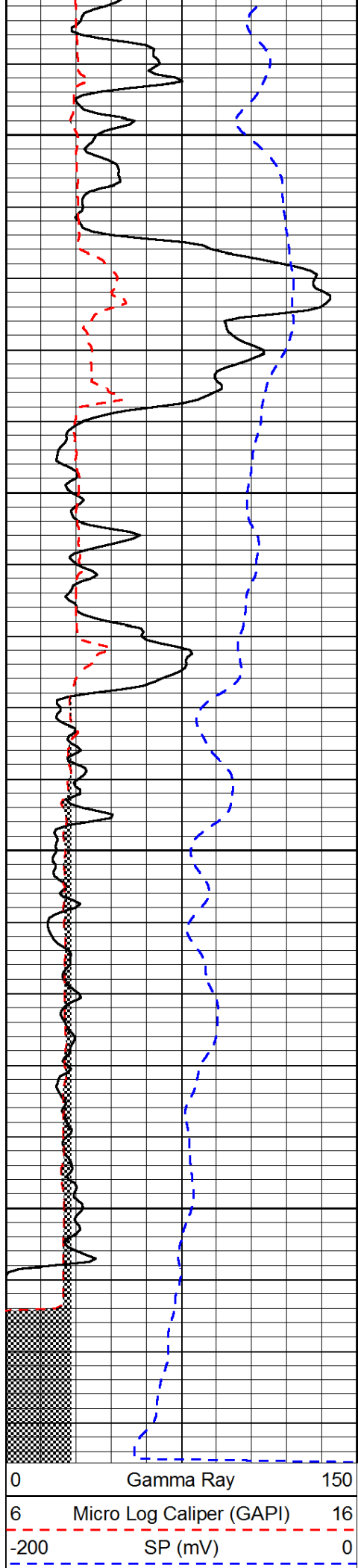
-31

-31

-31

-31







Pioneer Energy Services

Borehole Compensated Sonic Log

15-163-24,174-00-00

API No.

Company **Carmen Schmitt, Inc.**

Well **Arpin "A" #1-6**

Field

County **Rooks**

State **Kansas**

Location

**SE NE NE SW
2,293' FSL & 2,555' FWL**

Sec: **6** Twp: **9S** Rge: **20W**

Other Services
CNL/CDL
MEL/DIL

Permanent Datum **Ground Level** Elevation **2127**

Log Measured From **Kelly Bushing** **5** Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing**

Elevation
K.B. 2132
D.F.
G.L. 2127

Date **2/17/2014**

Run Number **Two**

Type Log **BHC Sonic**

Depth Driller **3830**

Depth Logger **3830**

Bottom Logged Interval **3819**

Top Logged Interval **200**

Type Fluid In Hole **Chemical**

Salinity, PPM CL **1300**

Density **9.3**

Level **Full**

Max. Rec. Temp. F **114**

Operating Rig Time **4 Hours**

Equipment -- Location **108 Hays**

Recorded By **J. Long**

Witnessed By **Dave Goldak**

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	208	8.625	24#	00	208
2	7.875	208	3830				

<<< 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.

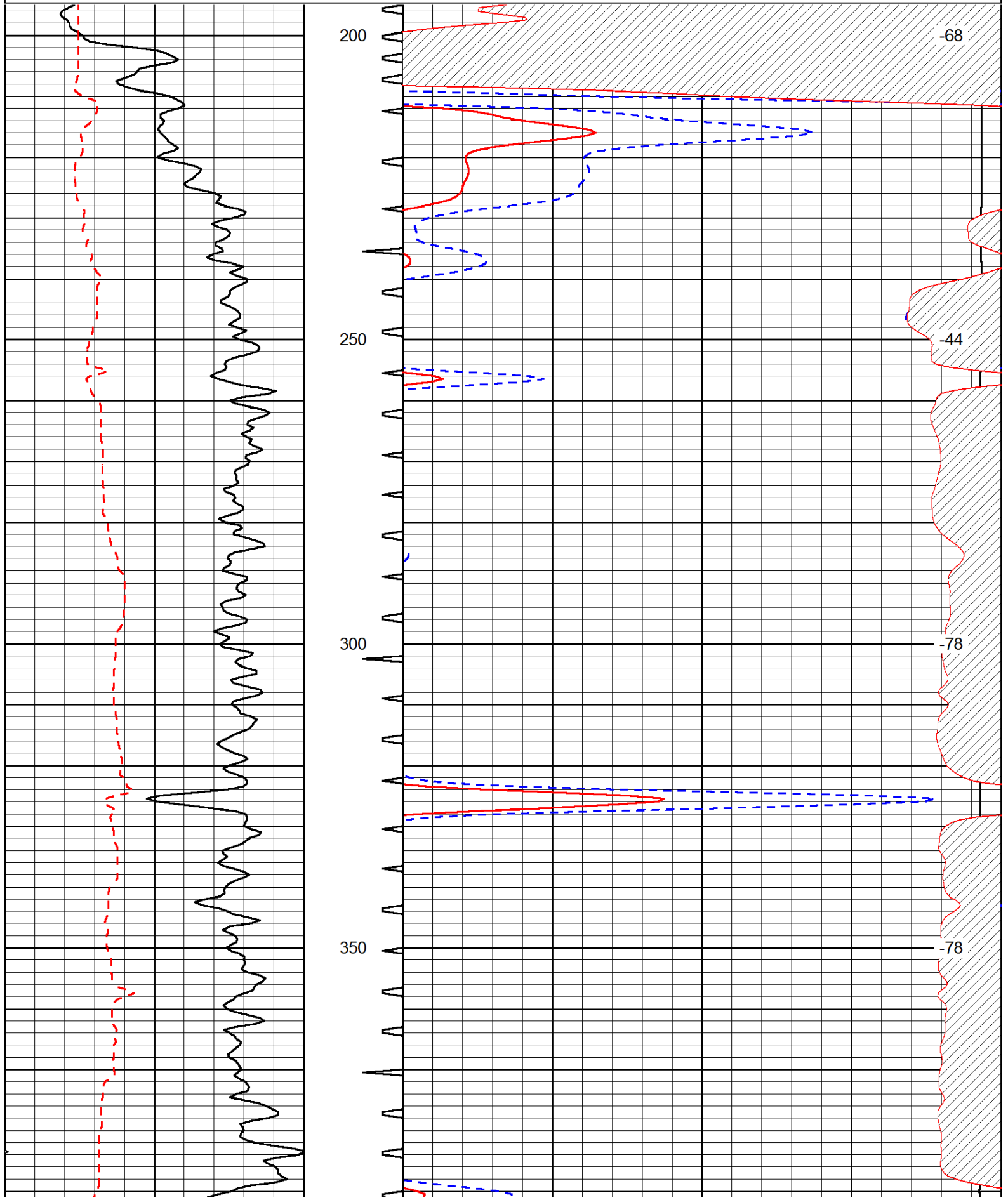
Comments

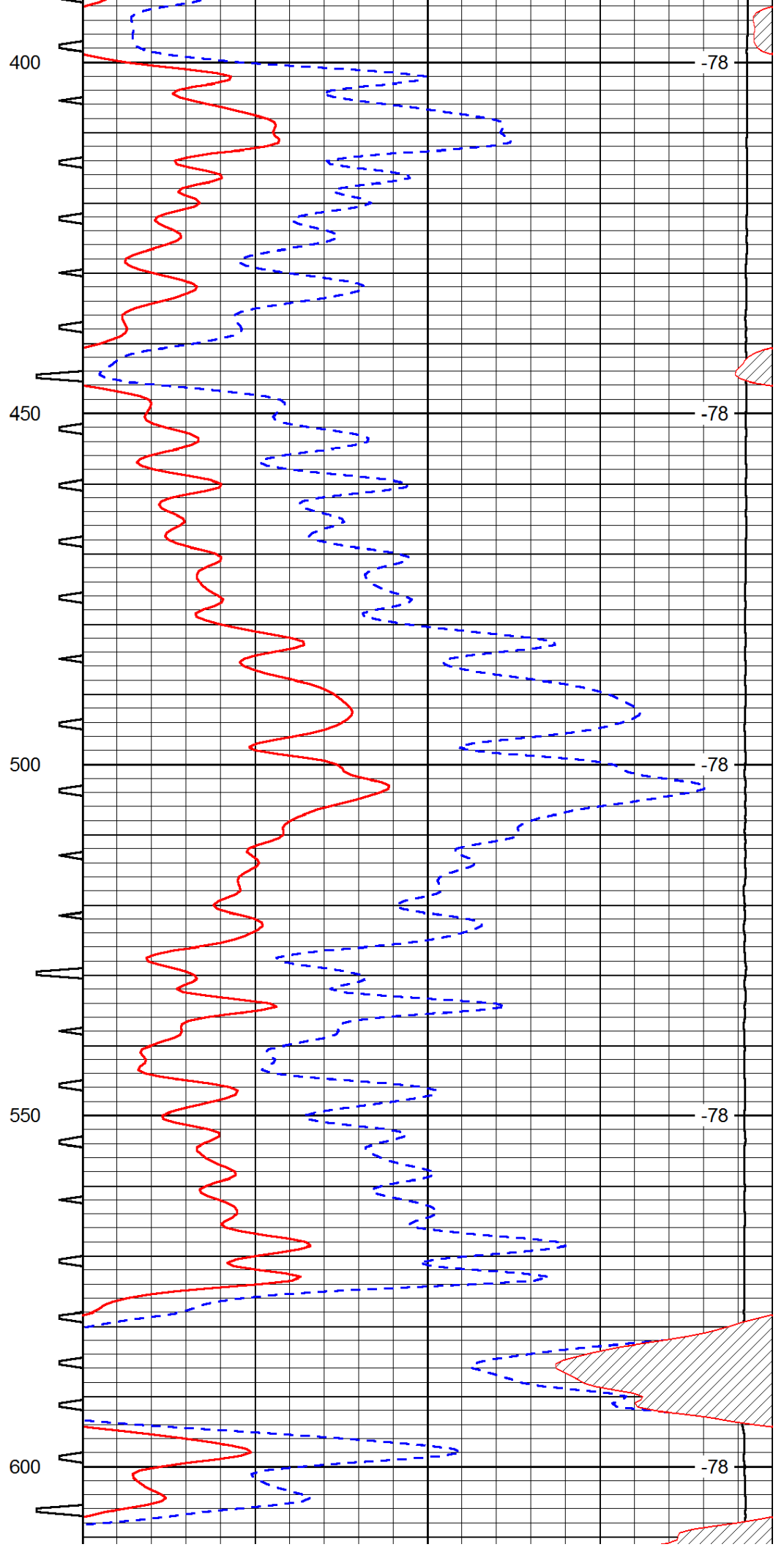
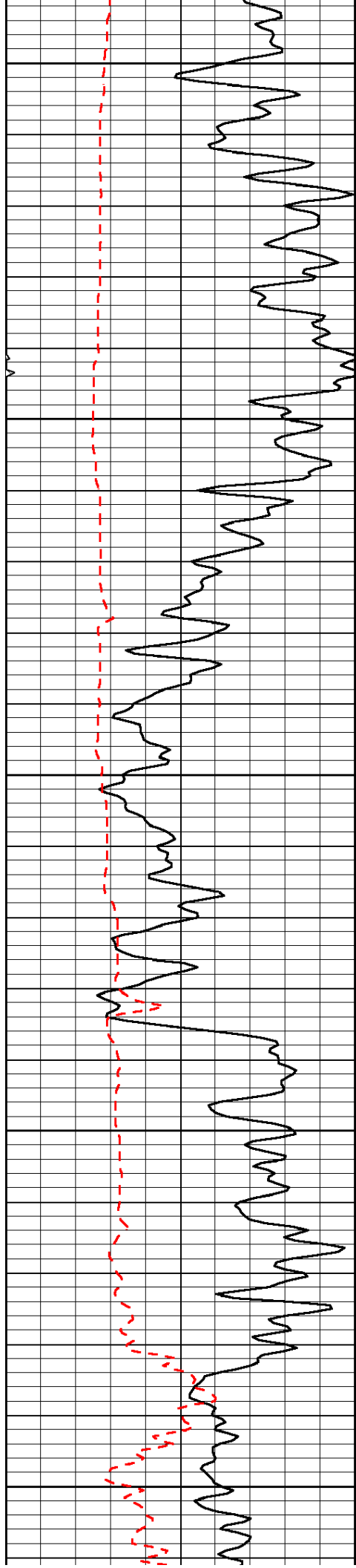
Thank you for using Pioneer Energy Services
www.pioneerenergy.com
785 625 3858

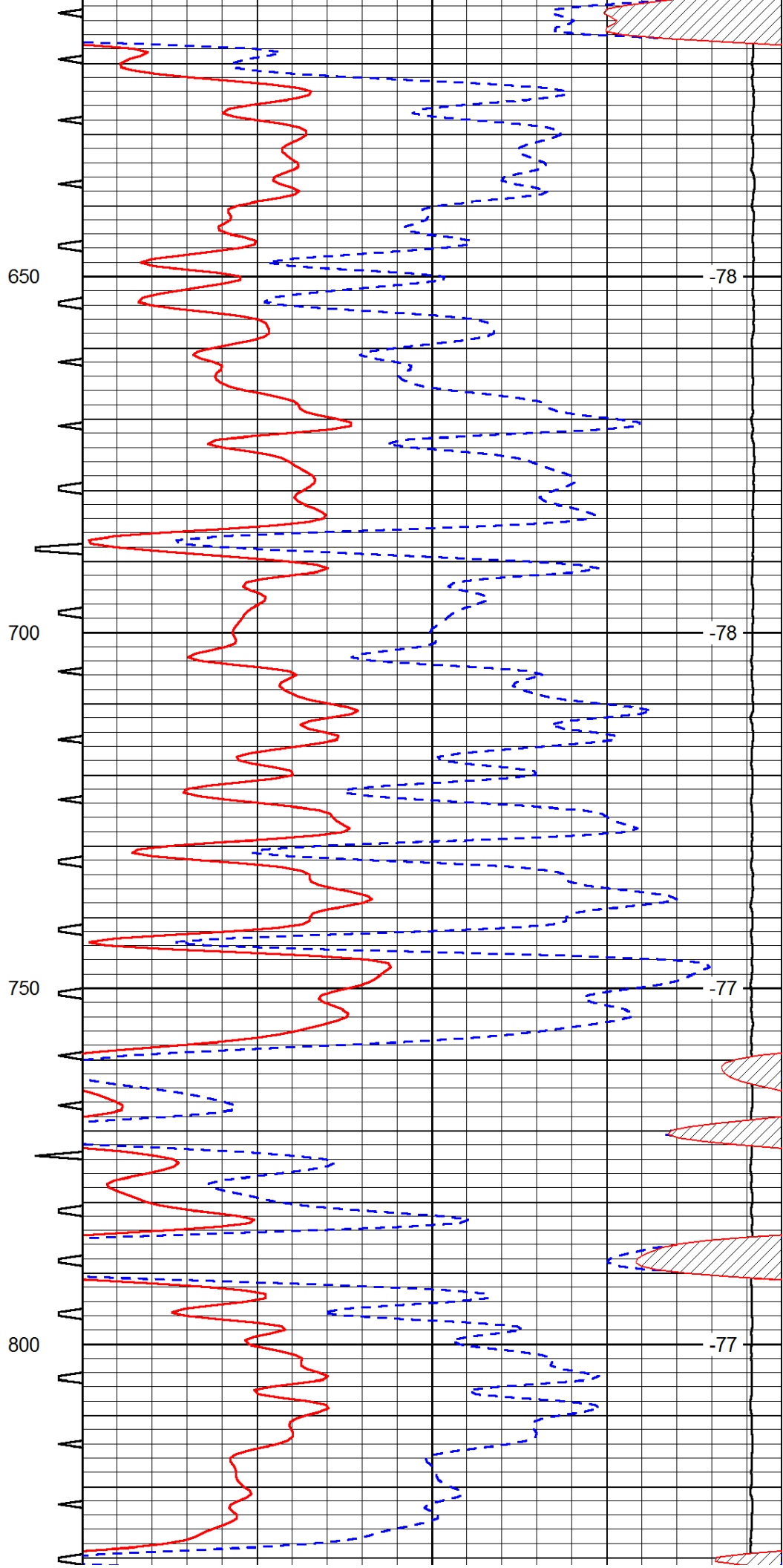
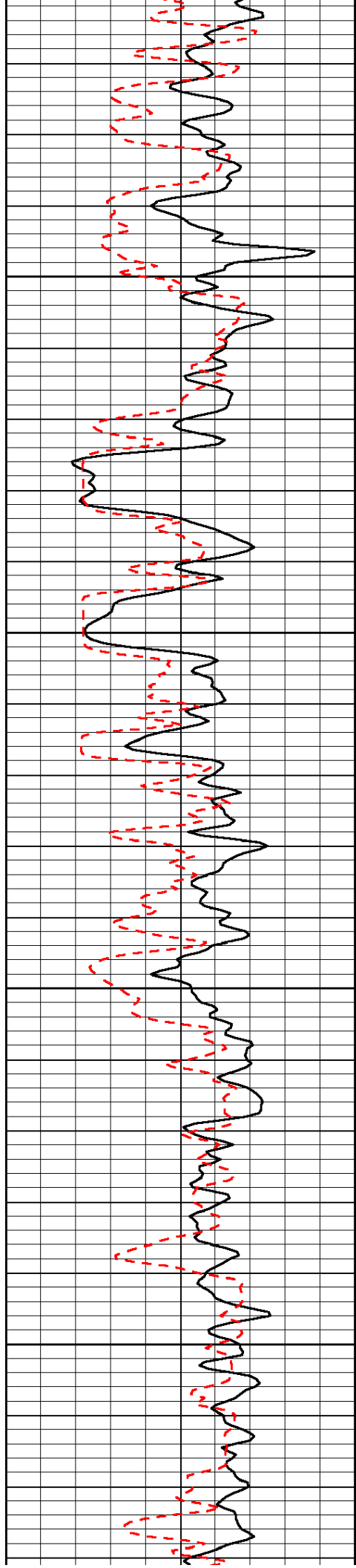
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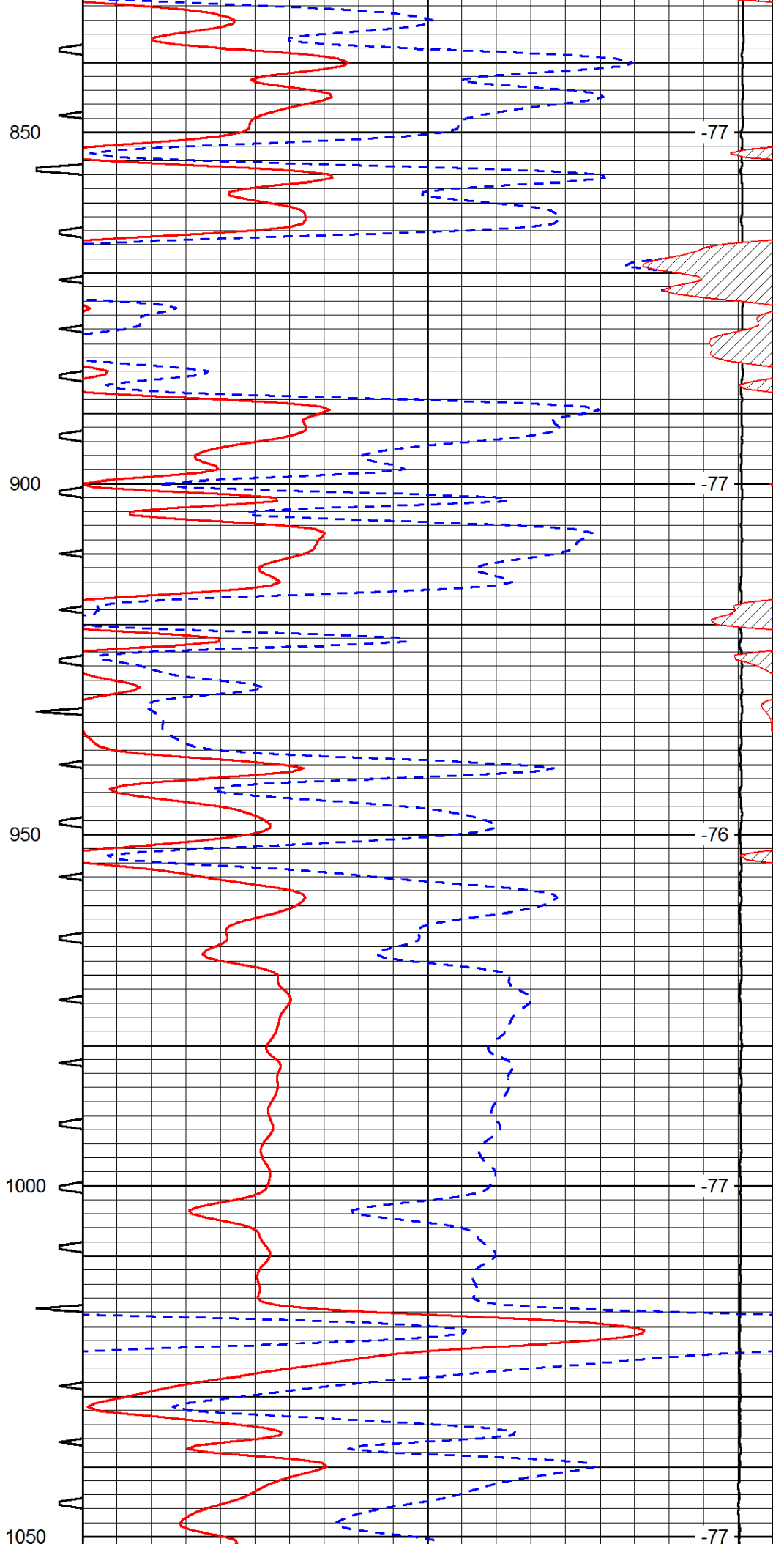
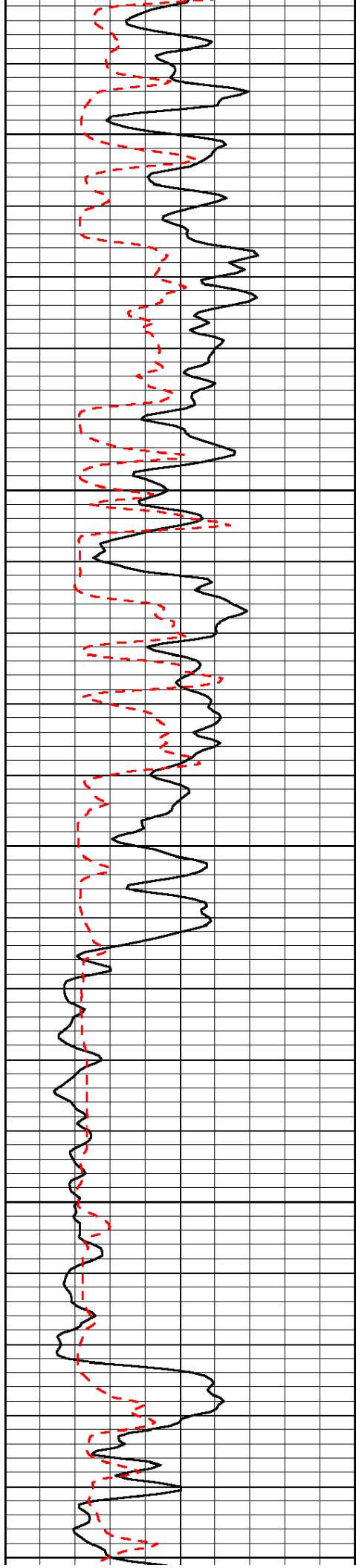
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150	Gamma Ray	300	5	0	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0

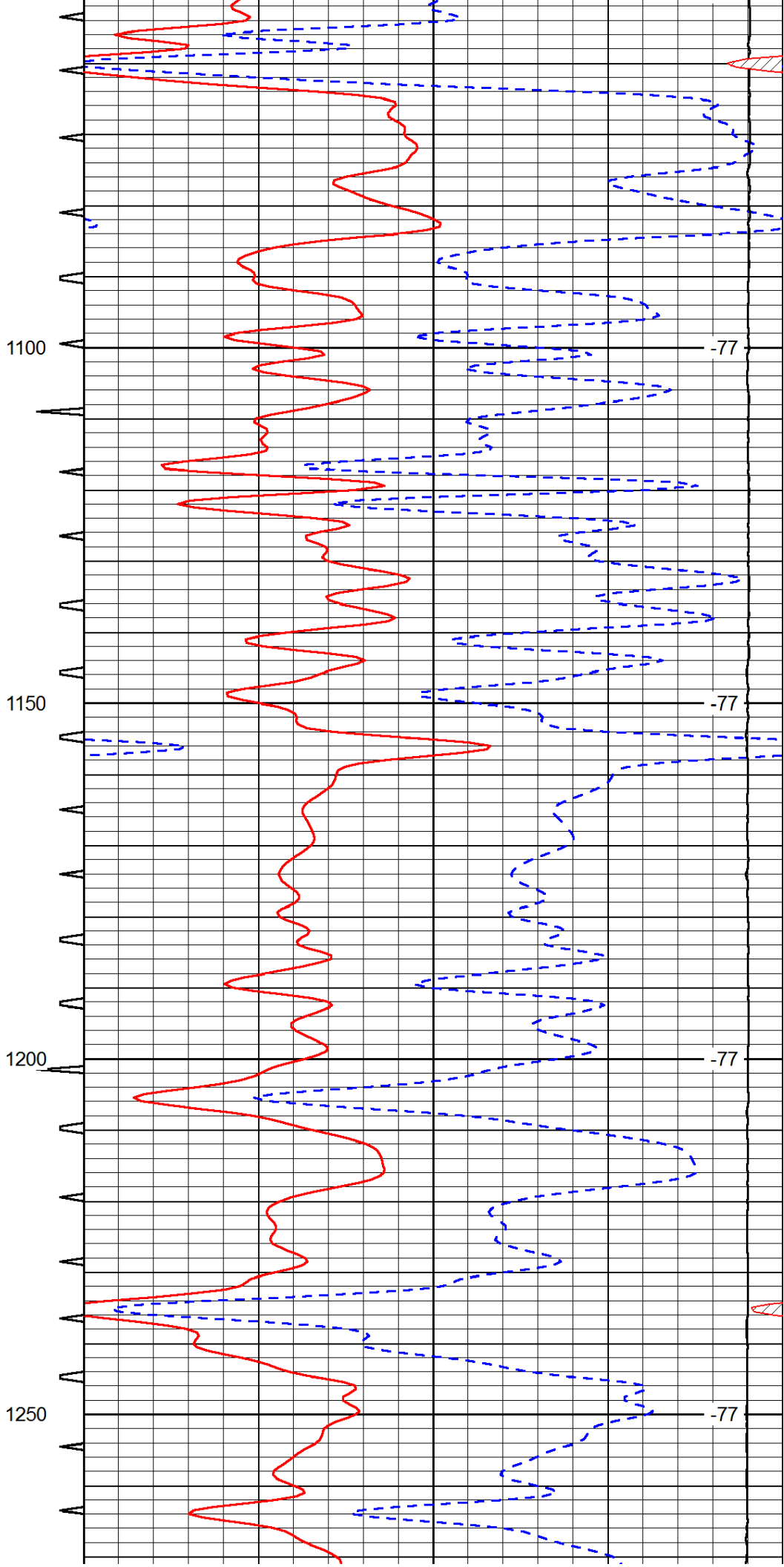
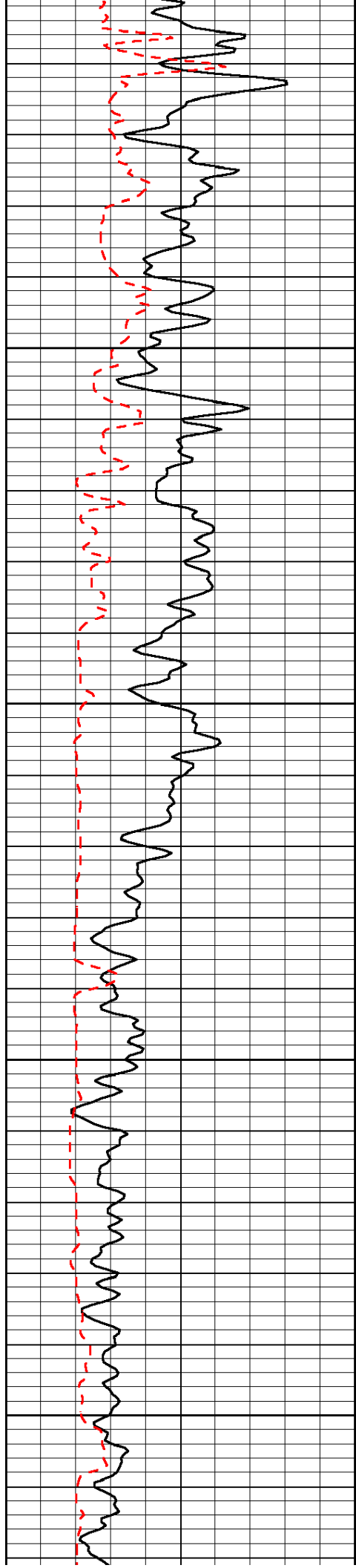
LSPD

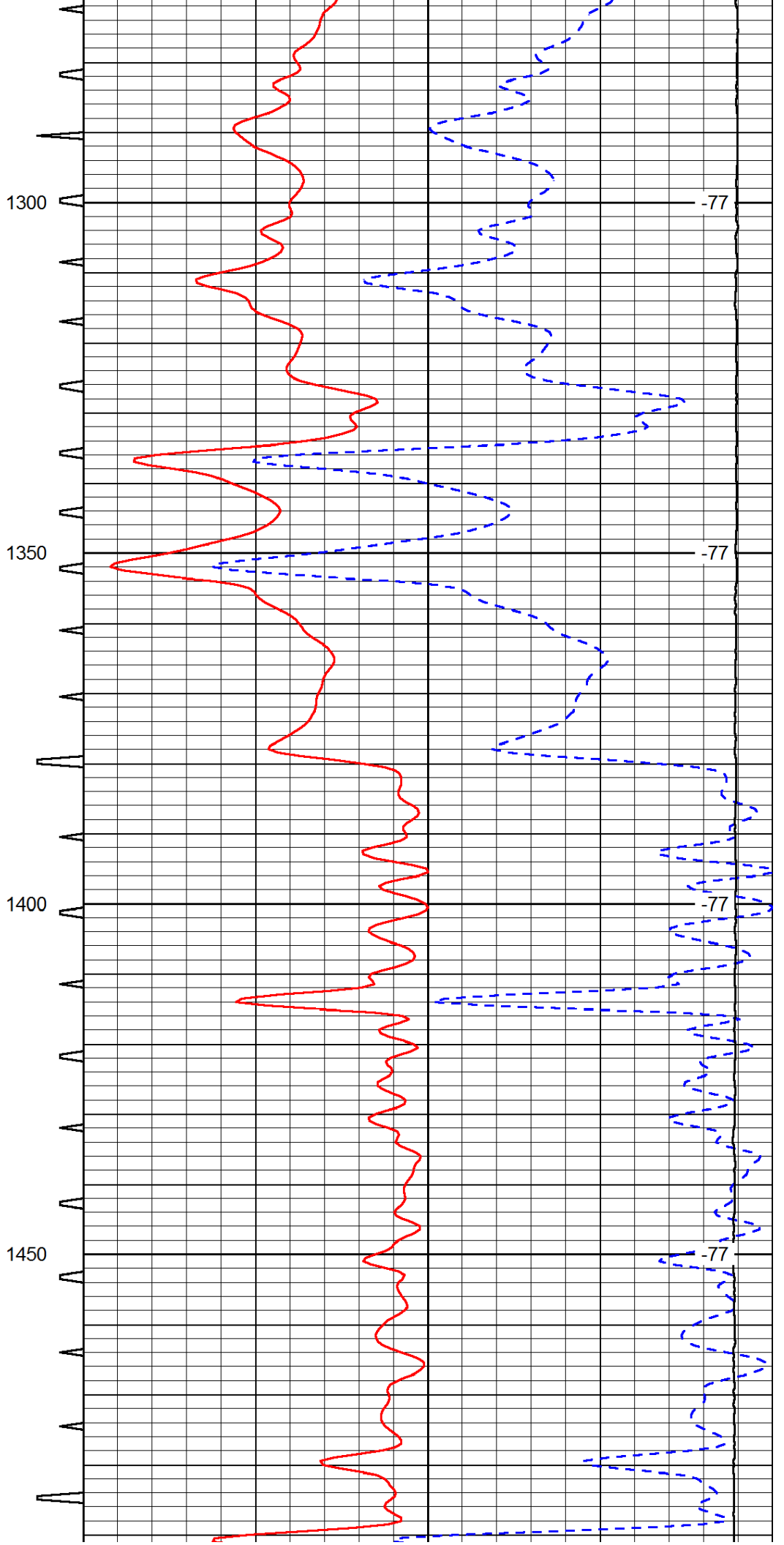
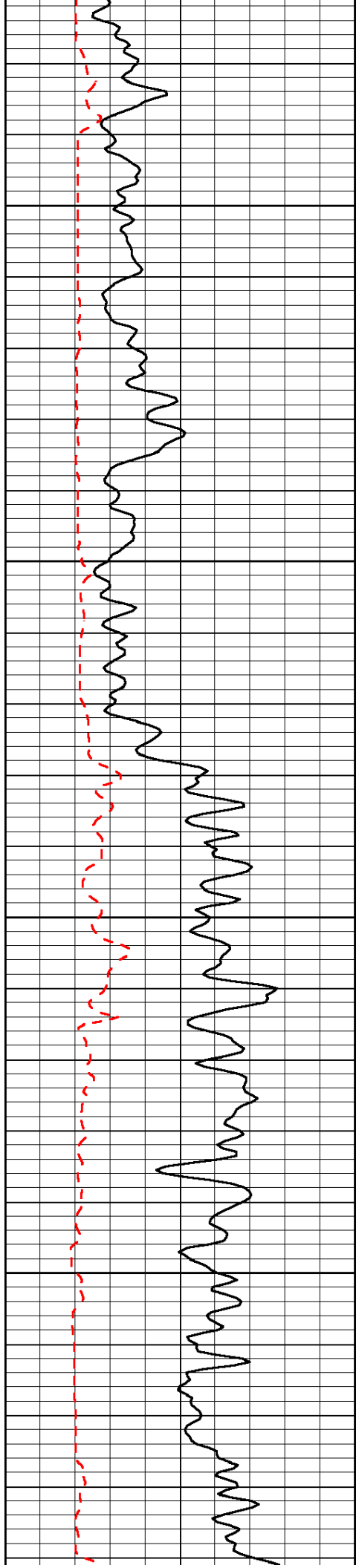


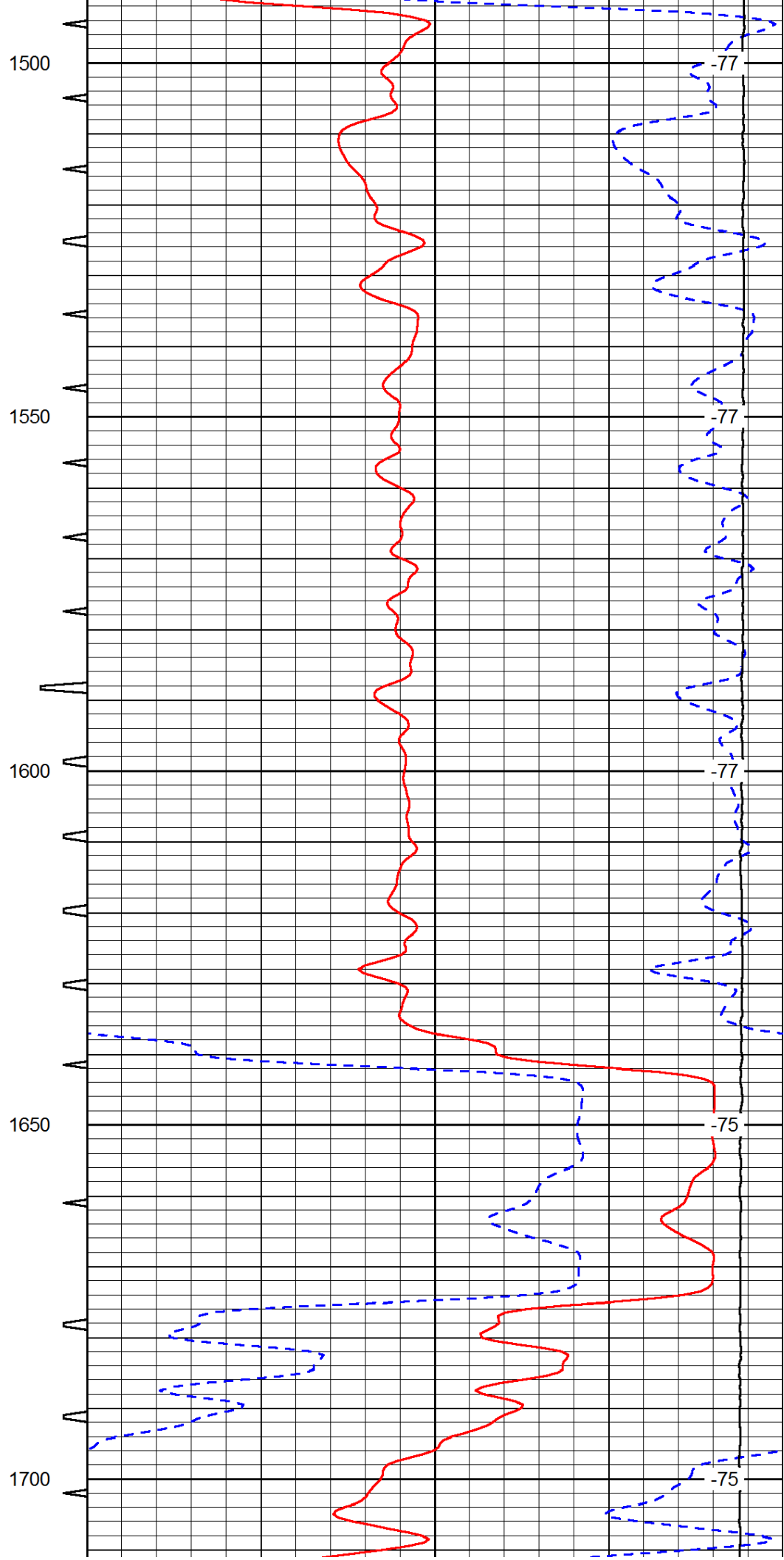
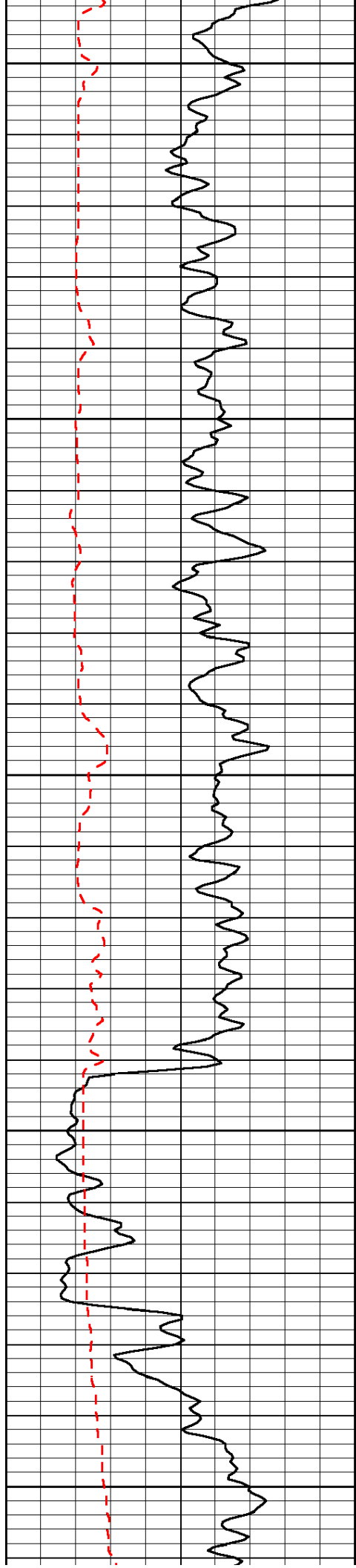


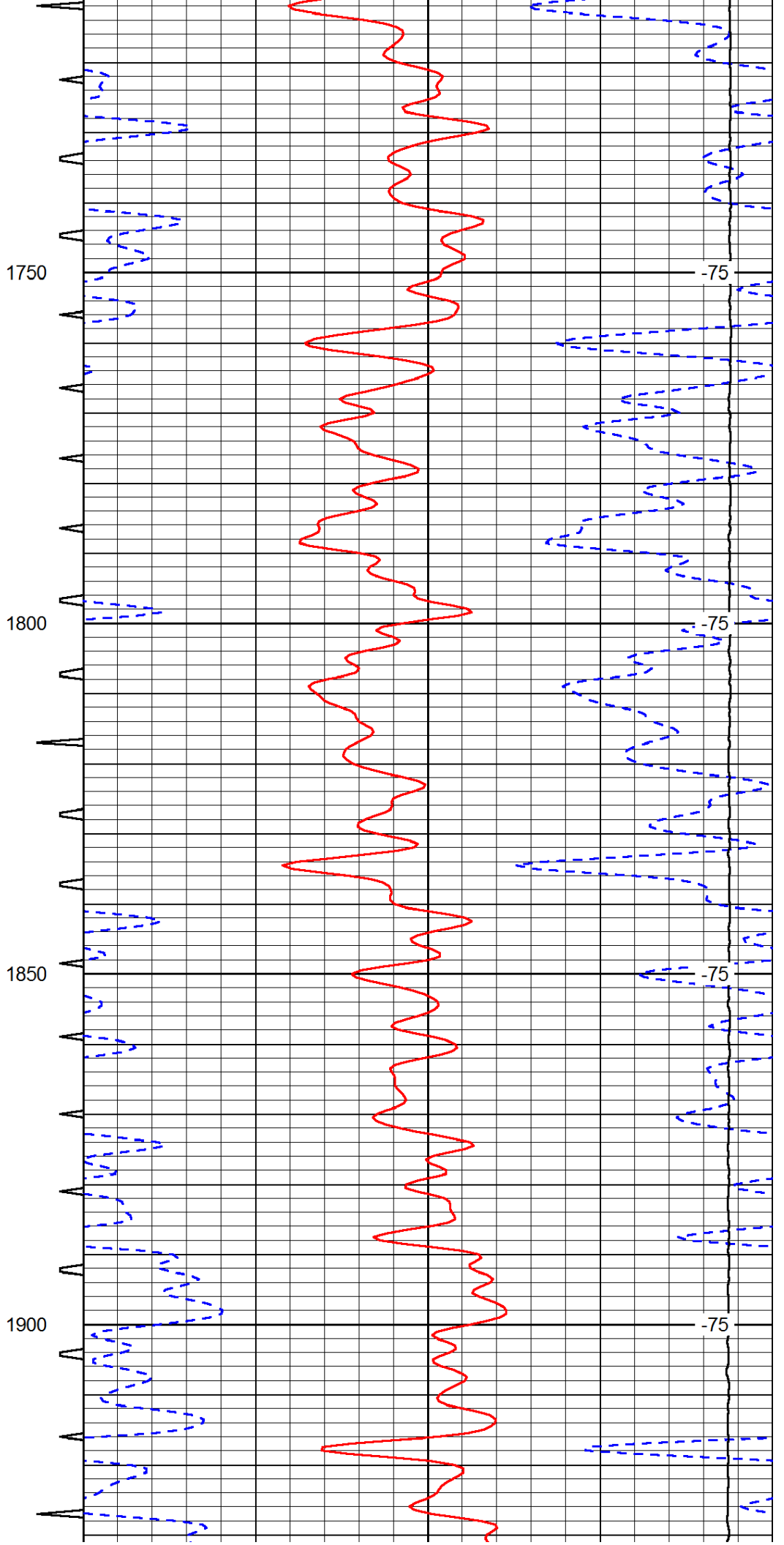
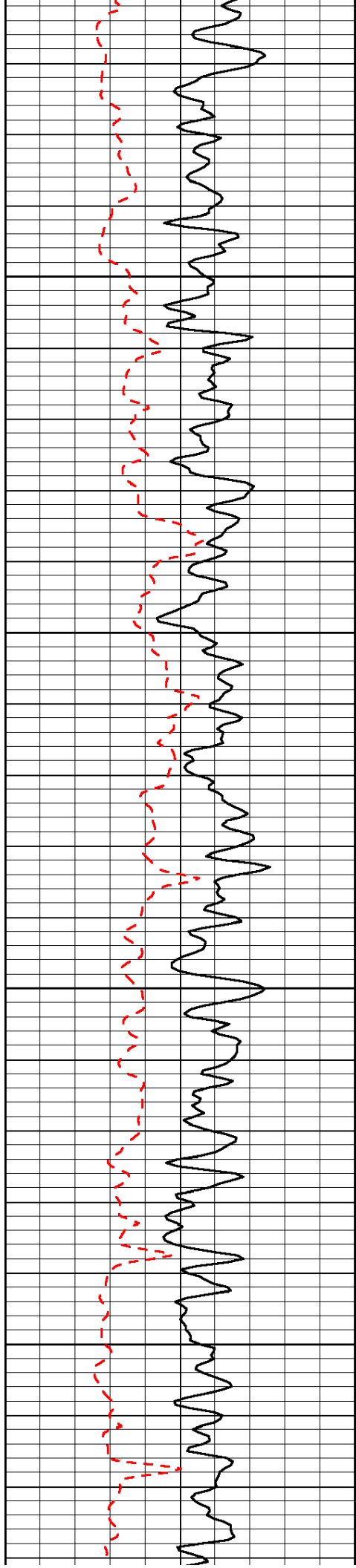


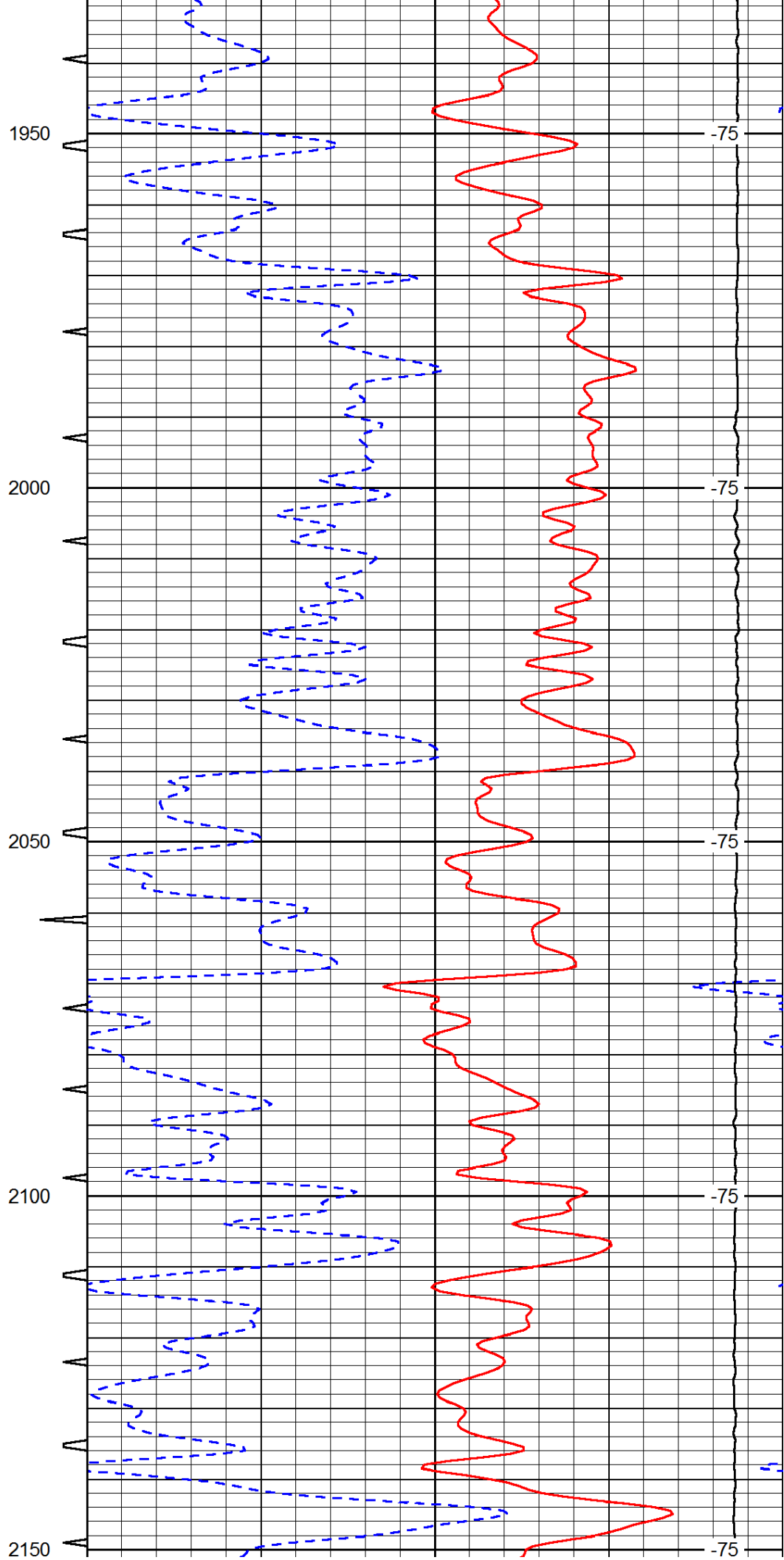
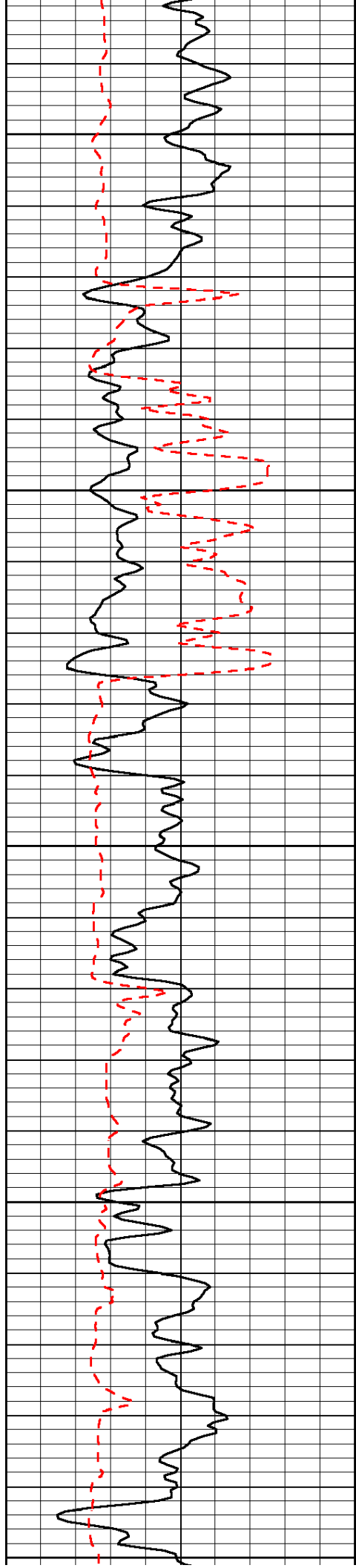


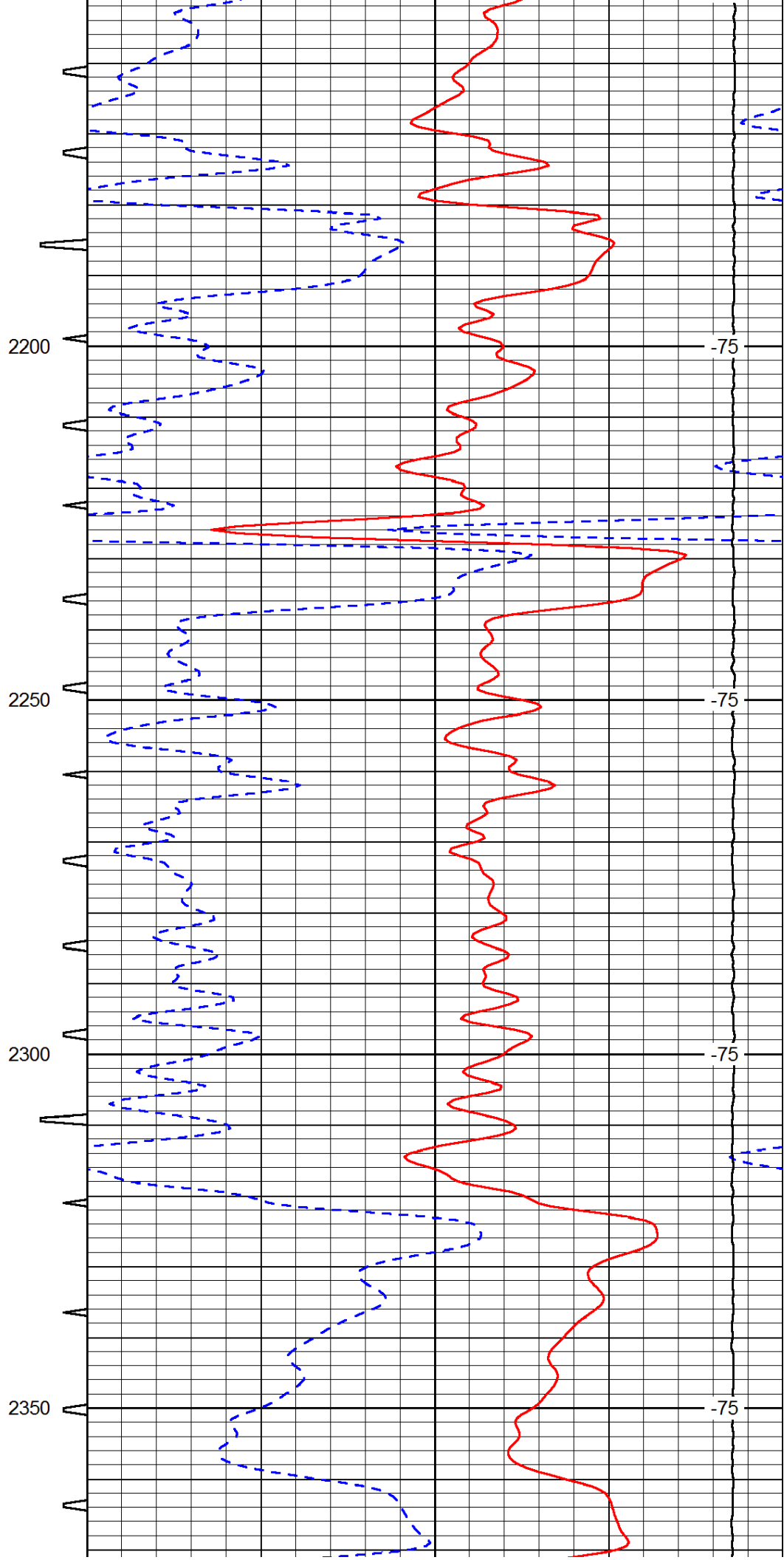
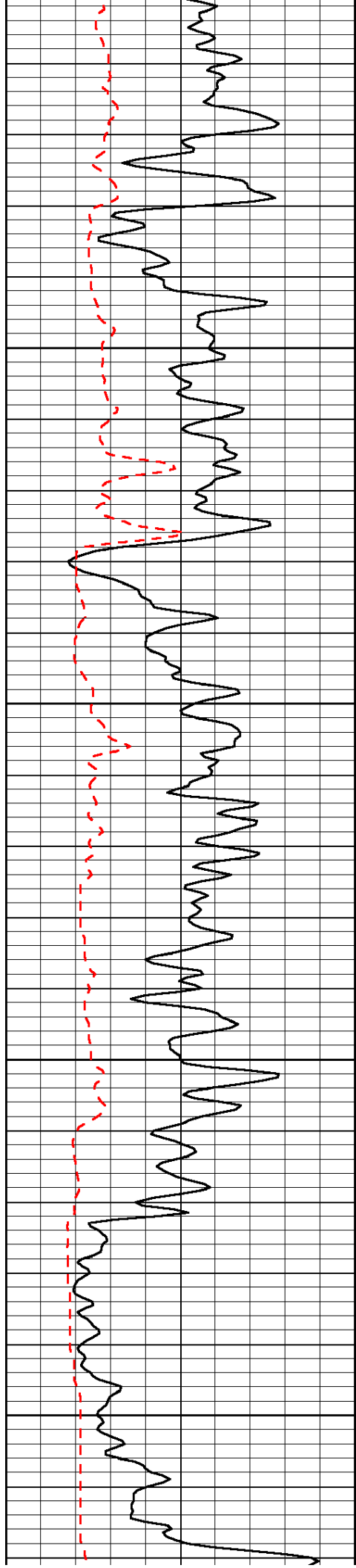


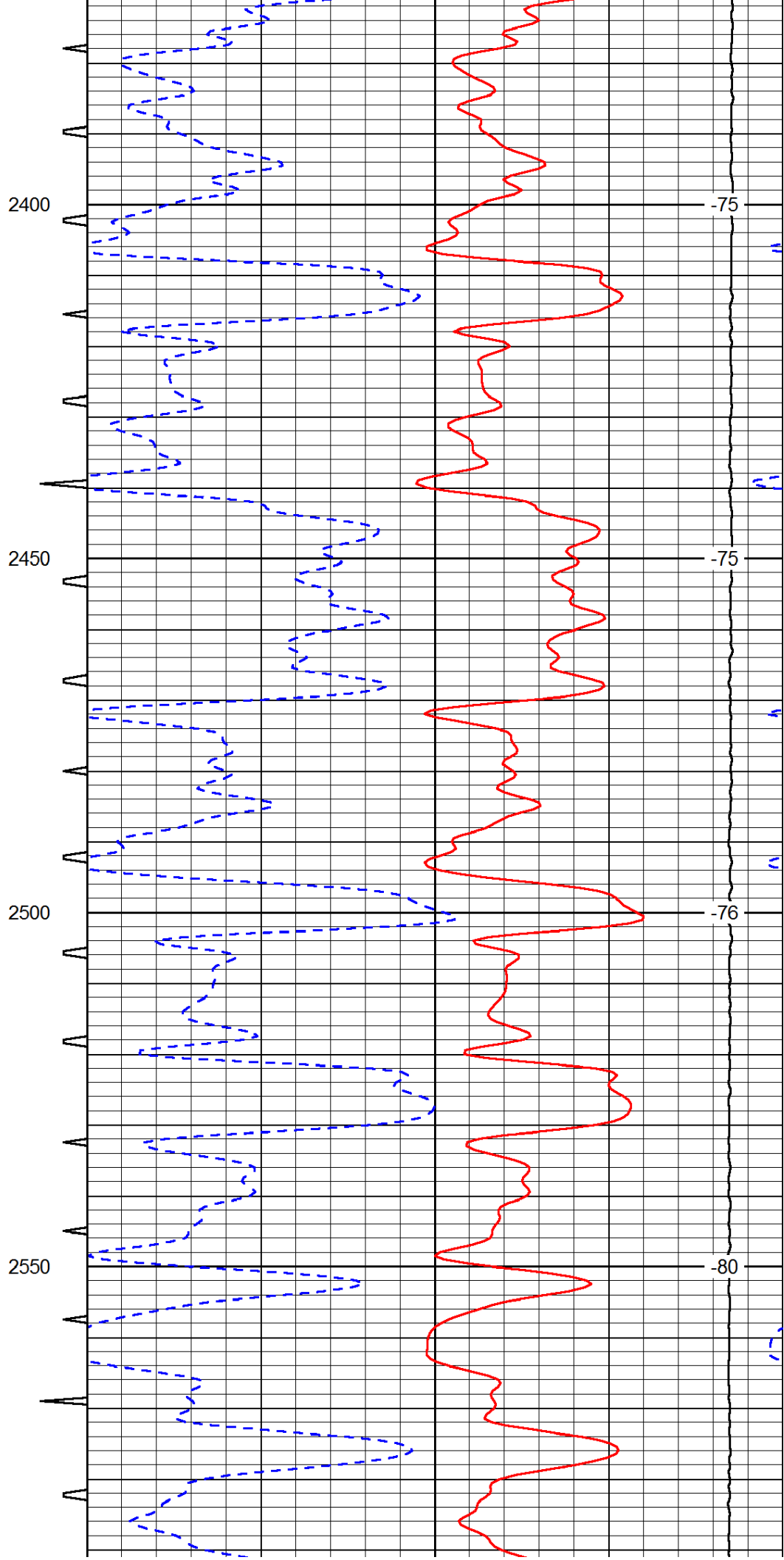
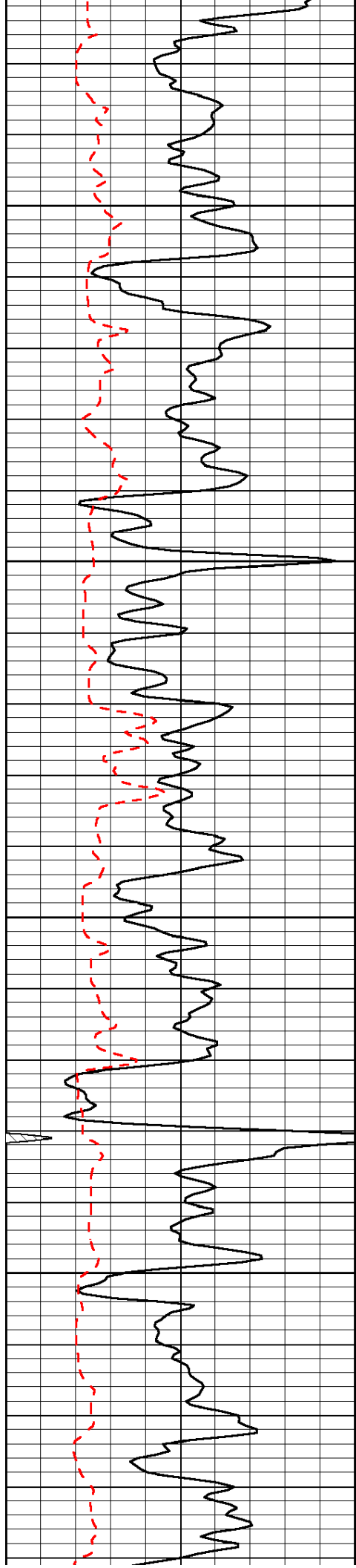


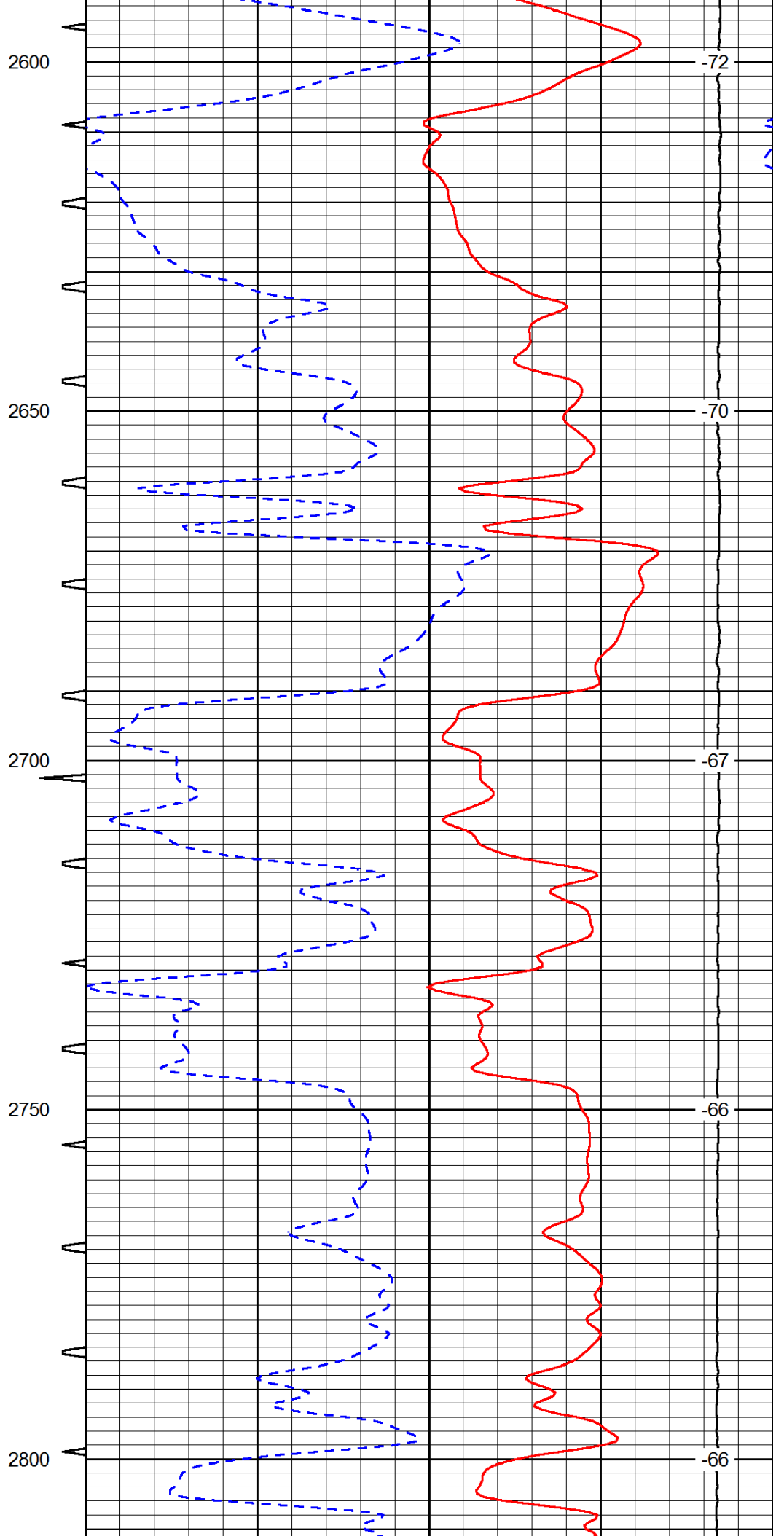
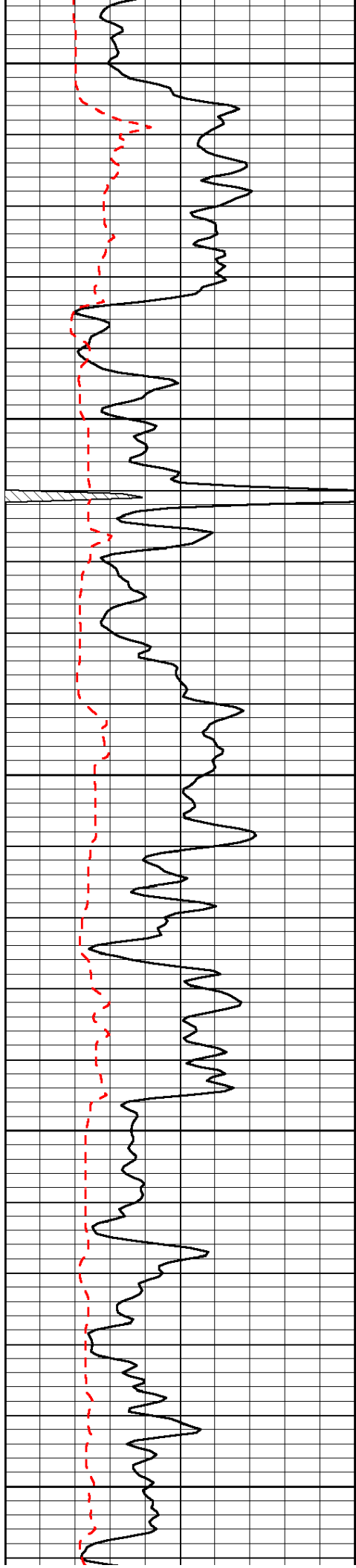


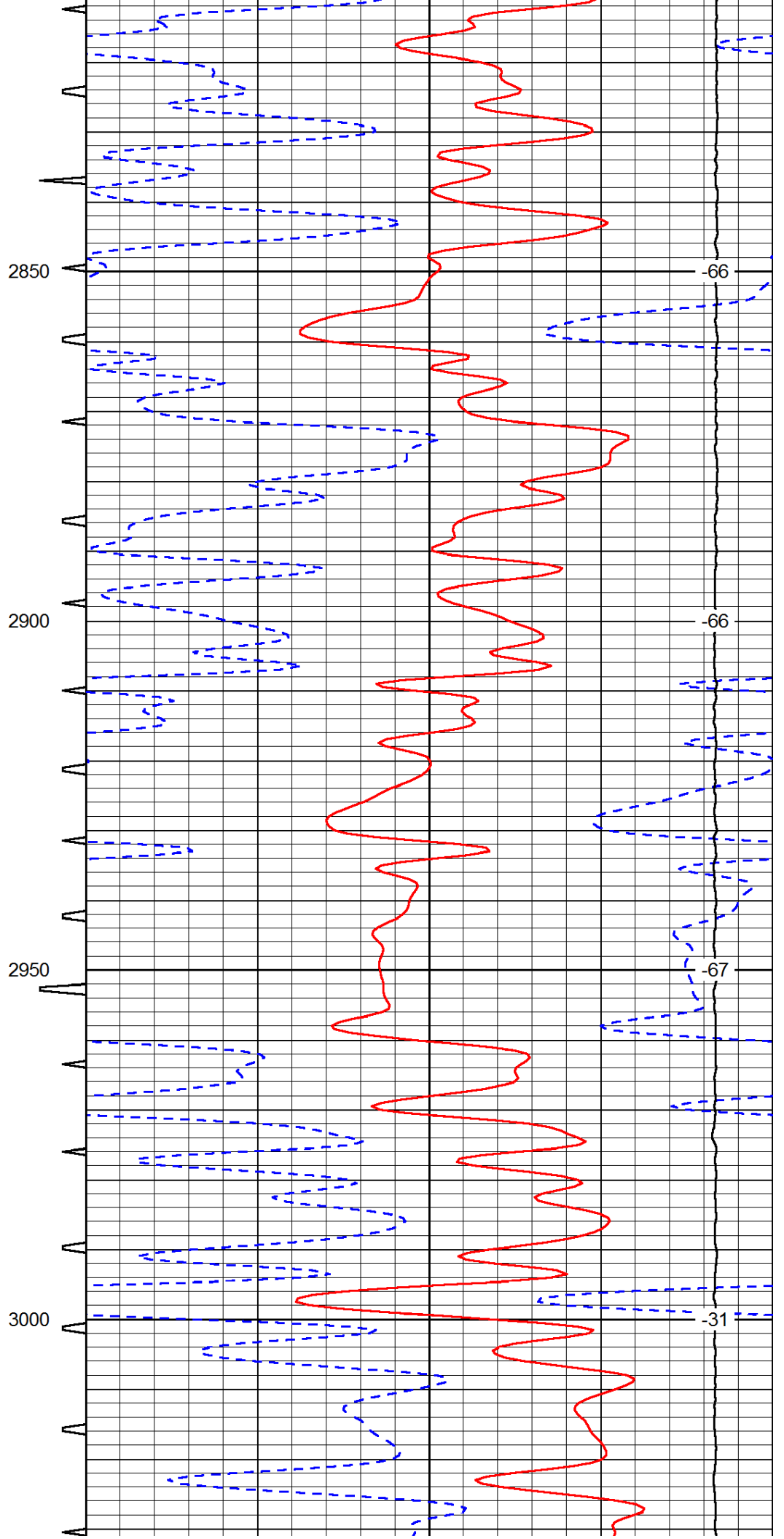
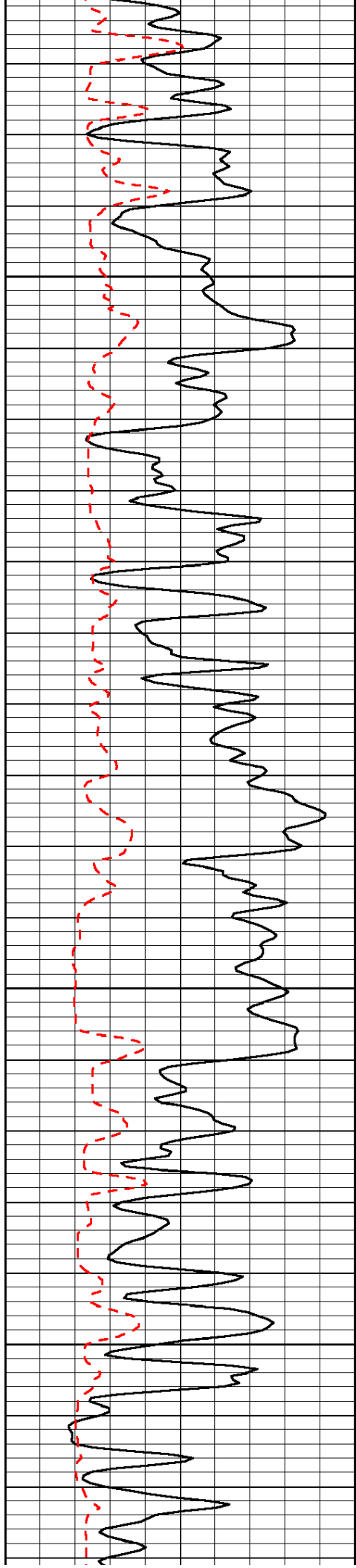


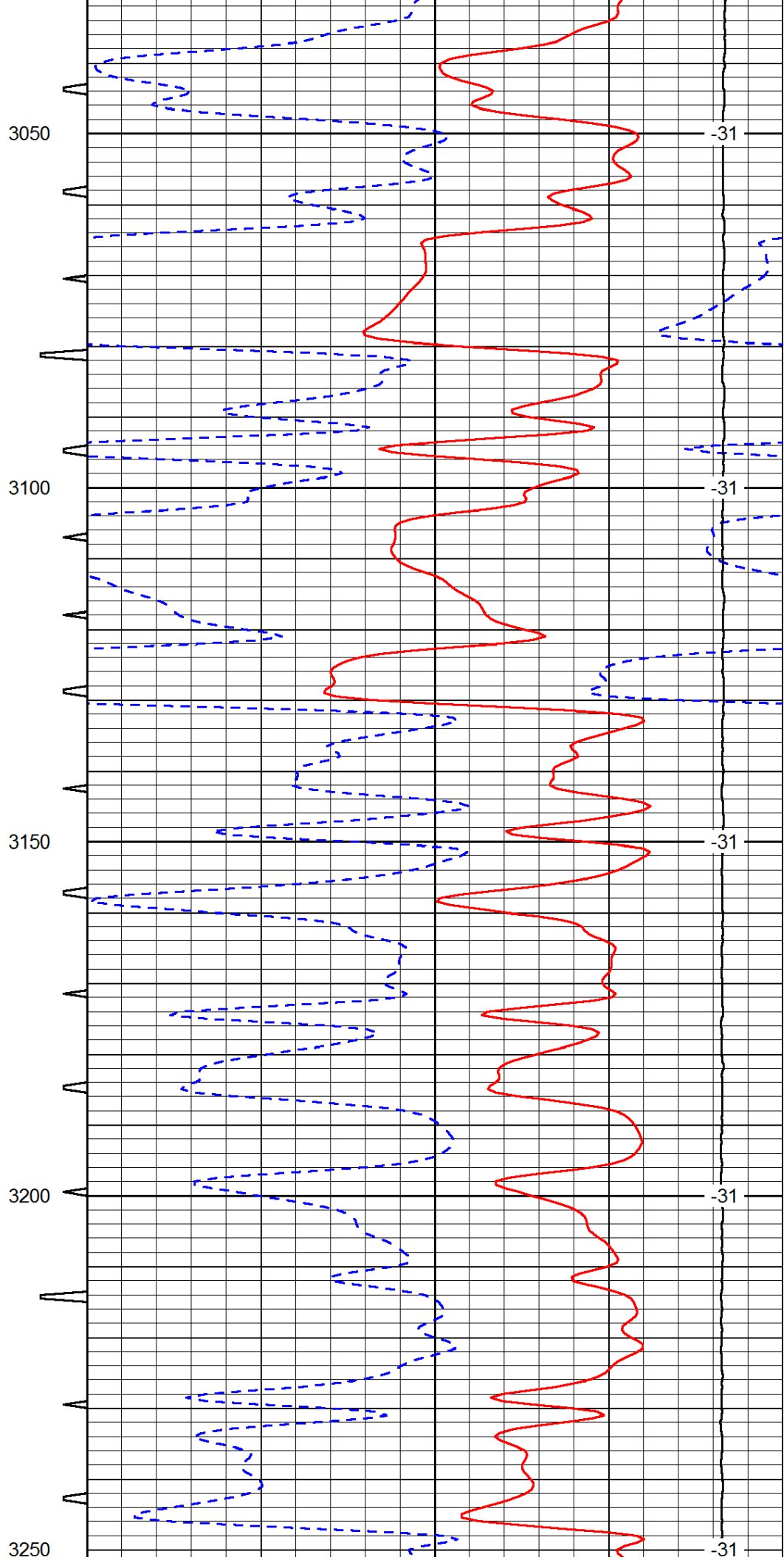
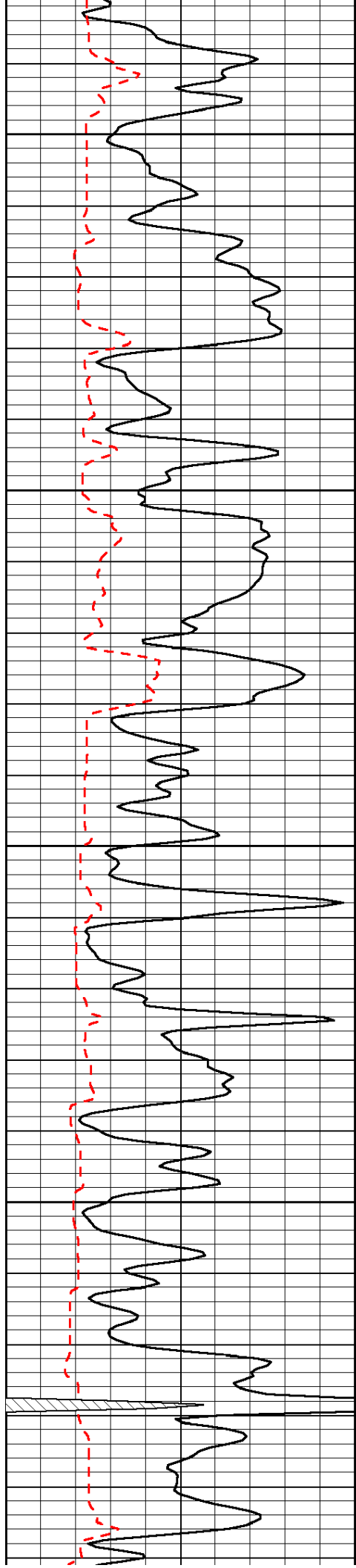


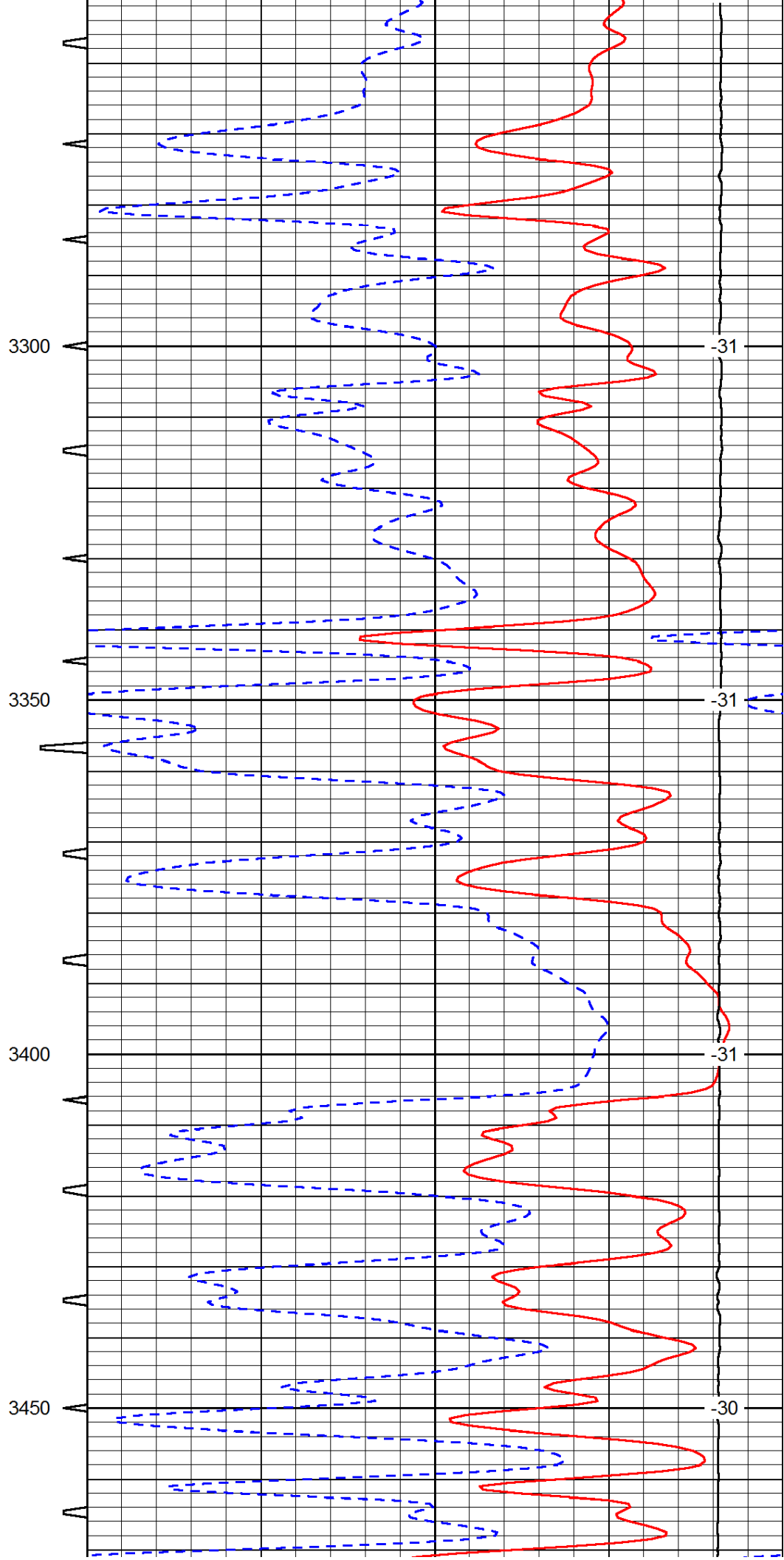
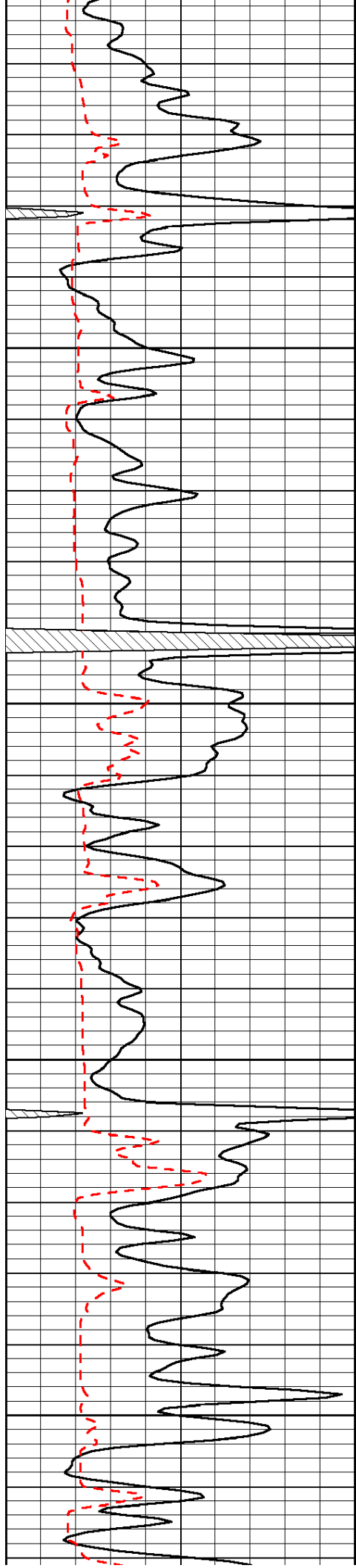


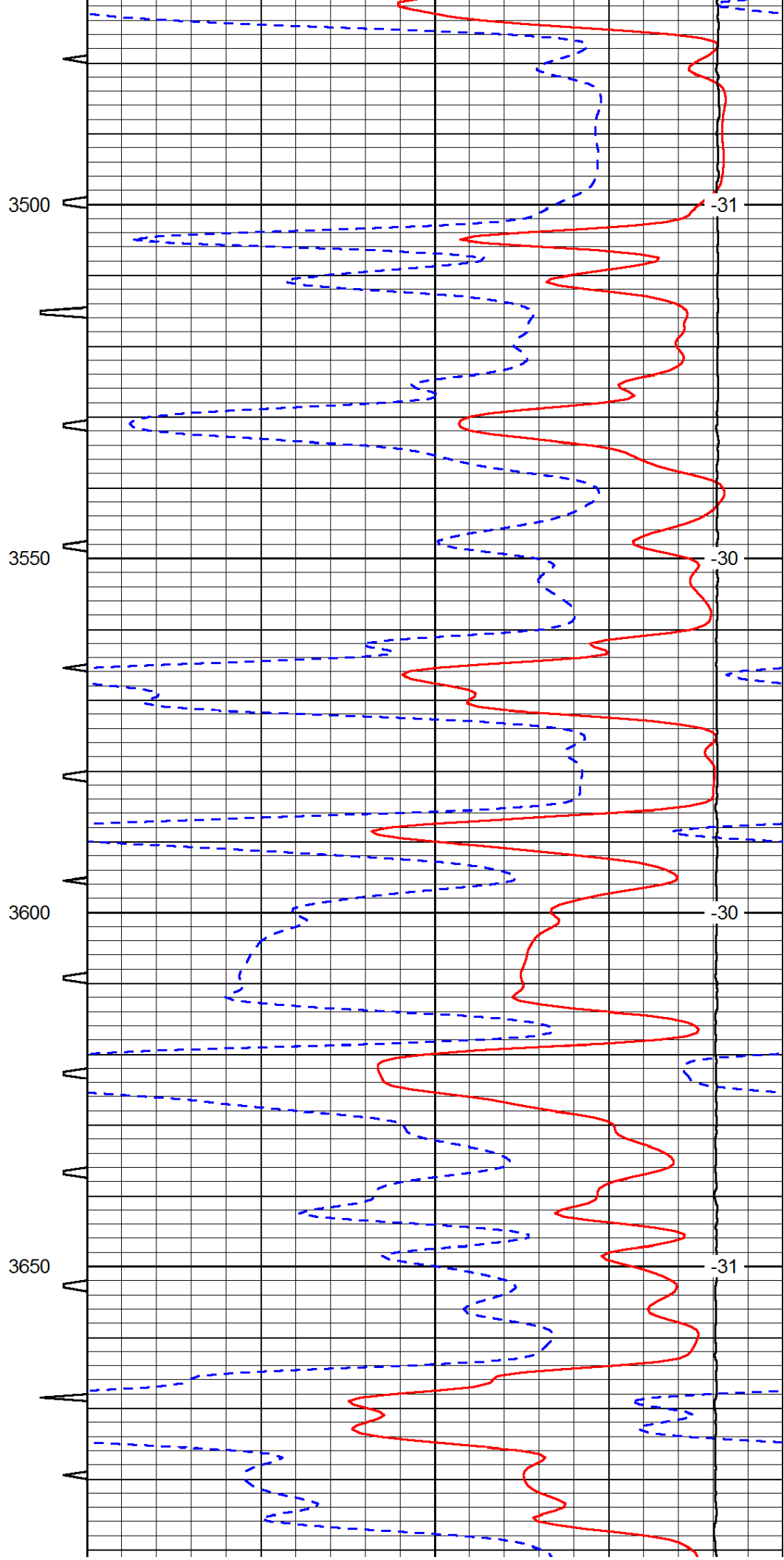
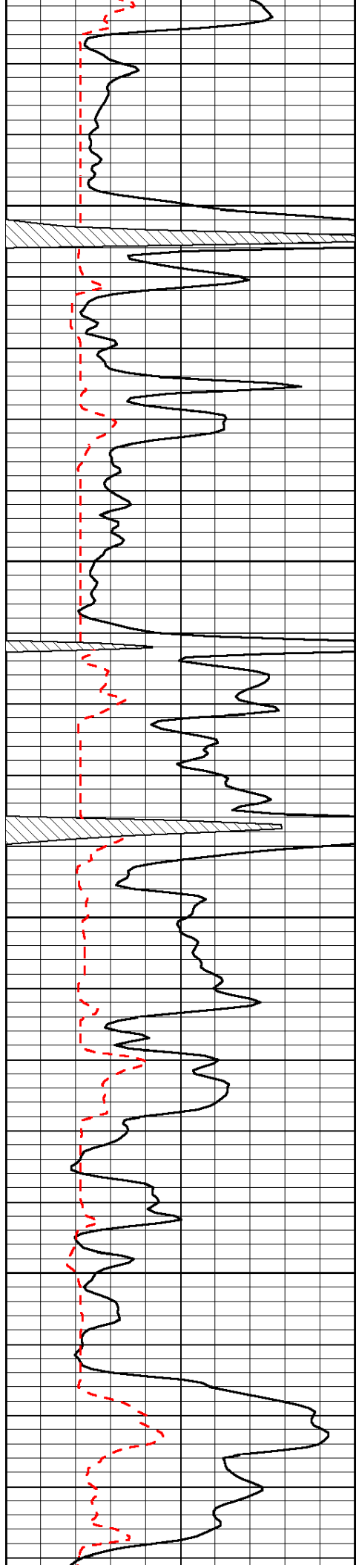


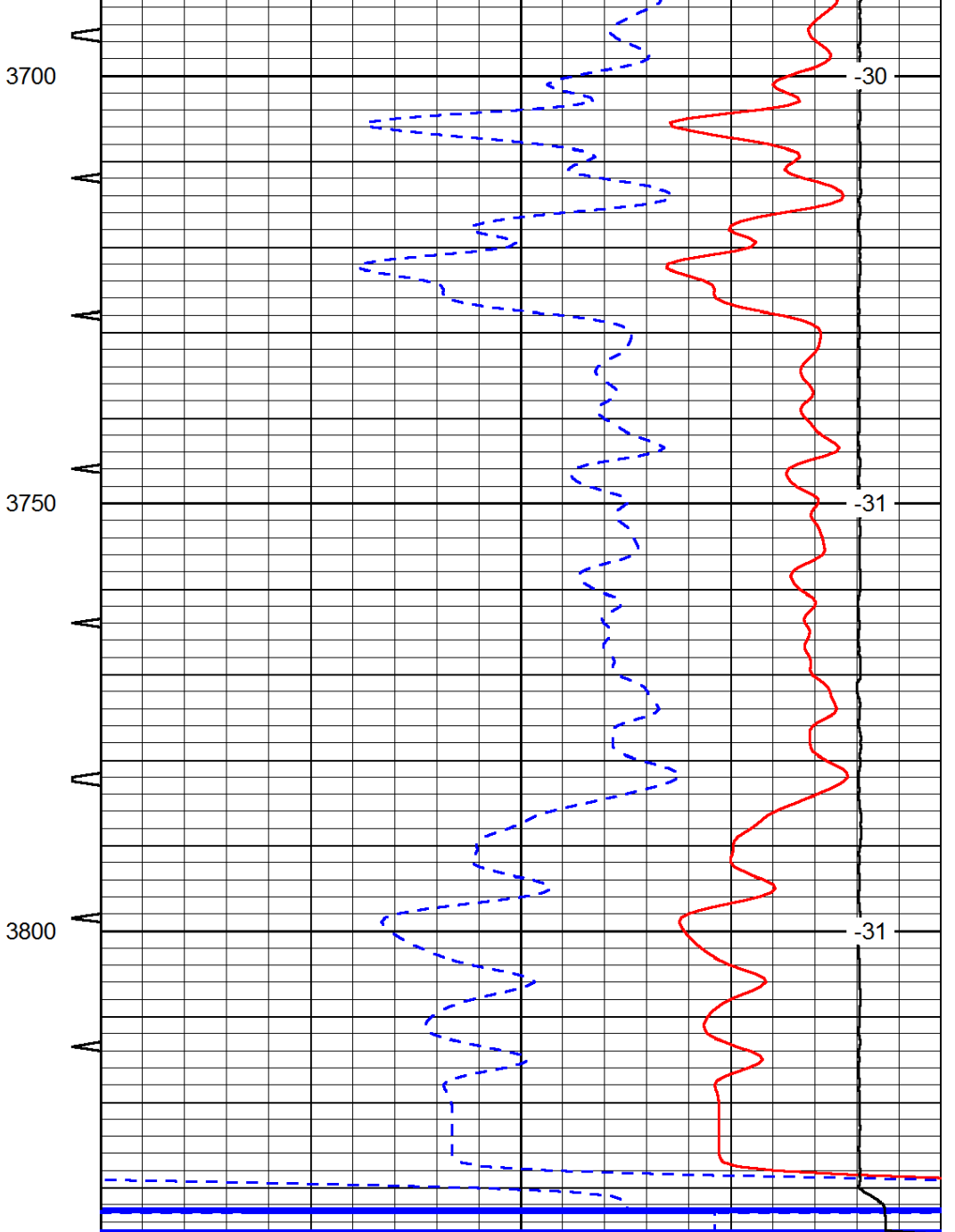
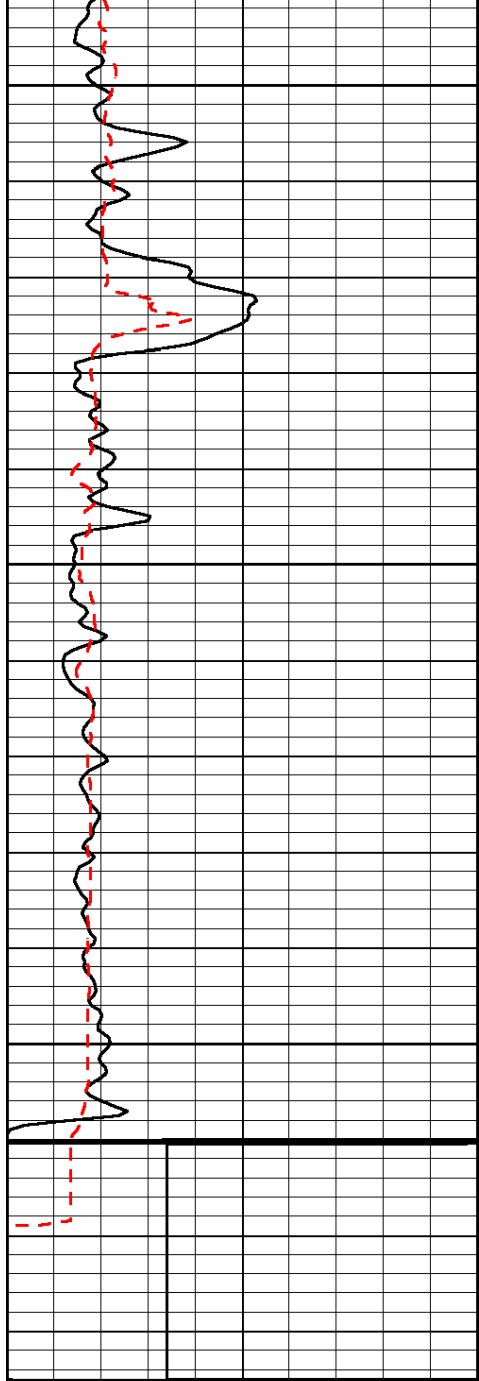






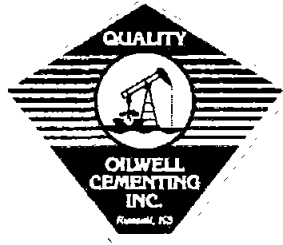






0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5	0	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0

LSPD



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: 2/8/2014
 Invoice # 253

P.O.#:
 Due Date: 3/10/2014
 Division: Russell

Invoice

Contact:
 Carmen Schmitt Inc
Address/Job Location:
 Carmen Schmitt Inc
 P.O. Box 47
 Great Bend Ks 67530

Reference:
 ARPIN 1-6

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 1,020.55	No				
Common-Class A	150	\$ 2,514.71	Yes				
Pump Truck Mileage-Job to Nearest Camp	42	\$ 468.47	No				
Bulk Truck Matl-Material Service Charge	158	\$ 353.18	No				
Calcium Chloride	5	\$ 311.04	Yes				
Bulk Truck Mileage-Job to Nearest Bulk Plant	42	\$ 274.14	No				
Premium Gel (Bentonite)	3	\$ 54.59	Yes				

Invoice Terms:

Net 30

SubTotal: \$ 4,996.66
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (749.50)

SubTotal for Taxable Items:	\$ 2,448.26
SubTotal for Non-Taxable Items:	\$ 1,798.88
Total:	\$ 4,247.16
Tax:	\$ 150.57
Amount Due:	\$ 4,397.73
Applied Payments:	
Balance Due:	\$ 4,397.73

6.15% Rooks County Sales Tax

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.
 ©2008-2013 Straker Investments, LLC. All rights reserved.

18285.0106
 710/43
 "Cement surf. csg."
 West File

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. 453

Date	1-8-14	Sec.	6	Twp.	9	Range	20	County	ROOKS	State	KS	On Location	10:30pm	Finish	12:00 AM
Lease								Location <i>Danah S to SRD W to + 1/2 S</i>							
Arpin								Well No. 1-6-		Owner <i>E into</i>					
Contractor <i>Mullard</i>								To Quality Oilwell Cementing, Inc. 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 <i>Surface</i>															
Hole Size <i>12 1/4</i>				T.D. <i>208</i>				Charge To <i>Carmen Schmitt</i>							
Csg. <i>8 5/8</i>				Depth <i>208</i>				Street							
Tbg. Size				Depth				City				State			
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg. <i>20ft</i>				Shoe Joint <i>20 ft</i>				Cement Amount Ordered <i>150 390cc 2%</i>							
Meas Line				Displace <i>12.5 BBL</i>				<i>gel</i>							
EQUIPMENT															
Pumptrk <i>18</i>		No.		Cementer <i>Mike</i>		Helper		Common <i>150</i>							
Bulktrk <i>14</i>		No.		Driver <i>Cody</i>		Driver		Poz. Mix							
Bulktrk <i>19</i>		No.		Driver <i>Chad</i>		Driver		Gel. <i>3</i>							
								Calcium <i>5</i>							
JOB SERVICES & REMARKS															
Remarks:								Hulls							
Rat Hole								Salt							
Mouse Hole								Flowseal							
Centralizers								Kol-Seal							
Baskets								Mud CLR 48							
D/V or Port Collar								CFL-117 or CD110 CAF 38							
<i>Cement did</i>								Sand							
<i>Circulate</i>								Handling <i>158</i>							
								Mileage							
FLOAT EQUIPMENT															
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge <i>Surface</i>							
								Mileage <i>42</i>							
								Tax							
								Discount							
								Total Charge							
Signature <i>John L Scott</i>															