Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1074630

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 # 30931
Name: Daystar Petroleum, Inc.
Address 1: 522 N. MAIN ST
Address 2: PO BOX 560
City: EUREKA State: KS Zip: 67045 + 0560
Contact Person: Matt Osborn
Phone: (620) 583-5527
CONTRACTOR: License # 30141
Name: Summit Drilling Company
Wellsite Geologist: Ken Leblanc
Purchaser: Pacer Energy Marketing

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 #:

11/02/2011	11/13/2011	12/2/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-149-20065-00-00
Spot Description:
NW SW SW SW Sec. 19 Twp. 7 S. R. 12 ☑ East ☐ West
340 Feet from ☐ North / ☑ South Line of Section
280 Feet from ☐ East / ☑ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Pottawatomie
Lease Name: Pfrang Well #: 1-19
Field Name:
Producing Formation: Viola
Elevation: Ground: 1294 Kelly Bushing: 1304
Total Vertical Depth: 3398 Plug Back Total Depth: 3361
Amount of Surface Pipe Set and Cemented at: 335 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: 7000 ppm Fluid volume: 100 bbls
Dewatering method used: Evaporated

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: 02/20/2012
☑ **Confidential Release Date:** 02/19/2014
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 02/21/2012

[redacted] 1074630

Operator Name: Daystar Petroleum, Inc. Lease Name: Pfrang Well #: 1-19

Sec. 19 Twp. 7 S. R. 12 ☑ East ☐ West County: Pottawatomie

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	340	common	200	
Production	7.875	5.5	17	3386	Thickset	125	5# Kolseal

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	Depth
6	3155-3160	None	

TUBING RECORD: Size: 2.875 Set At: 3235 Packer At: Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 01/18/2012

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	20	0	3		31

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:
3155
3160

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Daystar Petroleum, Inc.
Well Name	Pfrang 1-19
Doc ID	1074630

All Electric Logs Run

Sonic
Dual Induction
Microresistivity
Dual Compensated Porosity

Form	ACO1 - Well Completion
Operator	Daystar Petroleum, Inc.
Well Name	Pfrang 1-19
Doc ID	1074630

Tops

Name	Top	Datum
Heebner	1097	207
Brown Lime	1291	13
Lansing	1304	0
Stark Shale	1550	-246
Base/KC	1609	-305
Mississippian Chert	2260	-956
Mississippian Limestone	2286	-982
Kinderhook Shale	2314	-1010
Hunton	2542	-1238
Maquoketa	3090	-1786
Viola	3154	-1850
Simpson	3315	-2011
LTD	3398	-2094

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

February 20, 2012

Matt Osborn
Daystar Petroleum, Inc.
522 N. MAIN ST
PO BOX 560
EUREKA, KS 67045-0560

Re: ACO1
API 15-149-20065-00-00
Pfrang 1-19
SW/4 Sec.19-07S-12E
Pottawatomie County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Matt Osborn

CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 33300
LOCATION EUREKA
FOREMAN Kevin McCoy

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

CEMENT API # 15-149-20065 KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-14-11		PFRANG # 1-19	19	7S	12E	Pottawatomie

CUSTOMER: Daystar Petroleum, Inc.
MAILING ADDRESS: 522 N. Main St. P.O. Box 560
CITY: Eureka | STATE: KS | ZIP CODE: 67045

Summit Drlg. Co.

TRUCK #	DRIVER	TRUCK #	DRIVER
520	John S.		
667	Allen B.		

JOB TYPE Longstring | HOLE SIZE 7 7/8 | HOLE DEPTH 3398' KB | CASING SIZE & WEIGHT 5 1/2 17# New
CASING DEPTH 3385.61 G.L. | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT 13.6# | SLURRY VOL 41 BBL | WATER gal/sk 7.0 | CEMENT LEFT in CASING 21.30
DISPLACEMENT 78.° BBL | DISPLACEMENT PSI 900 | MIX PSI 1500 Bump Plug | RATE 5 BPM

REMARKS: Safety Meeting: Rig up to 5 1/2 Casing w/ Rotating Head. Break Circulation w/ 5 BBL water. Pump 12 BBL Sict Suspender Pre Flush, 5 BBL water Spacer. Mixed 125 sks THick Set Cement w/ 5# Kol-Seal /sk @ 13.6#/gal, yield 1.85 = 41 BBL Slurry. Wash out Pump & Lines. Shut down. Release Latch down Plug. Displace Plug to Seat w/ BBL Fresh water. Final Pumping Pressure 900 psi. Bump Plug to 1500 psi. Wait 2 minutes. Release Pressure. Float & Plug Held. Good Circulation @ All times during Cementing Procedures. Job Complete. Rig down.

Note: Rotated Casing while Displacing Plug to Seat.

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	975.00	975.00
5406	125	MILEAGE	4.00	500.00
5402	3385'	Footage Charge	.21	710.85
1126 A	125 sks	THick Set Cement	18.30	2287.50
1110 A	625#	Kol-Seal 5#/sk	.44	275.00
1143	2 gals	Sict Suspender Pre Flush (Mixed w/ 12 BBL)	40.40	80.80
5407 A	6.87 Tons	125 Miles Bulk Delv.	1.26	1082.81
4203	1	5 1/2 Guide Shoe	160.00	160.00
4454	1	5 1/2 Latch down Plug	254.00	254.00
4104	1	5 1/2 Cement Basket	229.00	229.00
4130	8	5 1/2 x 7 7/8 Centralizers	48.00	384.00
5611	1	Rental on 5 1/2 Rotating Swivel	100.00	100.00
			Sub Total	7038.96
		THANK You 7.3%	SALES TAX	275.23
Ravin 3737			ESTIMATED TOTAL	7314.19

AUTHORIZTION [signature] TITLE DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 33352
LOCATION Eureka
FOREMAN Rick Ledford

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

API # 15-149-20065

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11/2/11	2345	Pfrang 1-19	19	7	12E	Pottawatomie

CUSTOMER: Daystar Petroleum Inc.
MAILING ADDRESS: 522 N. Main St.
CITY: Eureka | STATE: KS | ZIP CODE: 67045

Summit Drlg

TRUCK #	DRIVER	TRUCK #	DRIVER
520	John		
515	Colin		

JOB TYPE Surface 0 | HOLE SIZE 12¼" | HOLE DEPTH 340' | CASING SIZE & WEIGHT 8 5/8"
CASING DEPTH 338' | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT 15# | SLURRY VOL 48 Bbl | WATER gal/sk 6.5 | CEMENT LEFT in CASING 20'
DISPLACEMENT 20.5 Bbl | DISPLACEMENT PSI | MIX PSI | RATE

REMARKS: Safety meeting. Rig up to 8 5/8" casing. Mixed 200 sks class A cement w/ 3% cacl2, 2% gel + ¼# flocele/sk @ 15# /gal. shut down, release 8 5/8" wooden plug. Displace w/ 20.5 Bbl fresh water. Shut casing in w/ good cement returns to surface = 13 Bbl slurry to pit. Job complete. Rig down.

"Thank You"

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	775.00	775.00
5406	125	MILEAGE	4.00	500.00
11045	200 sks	class A cement	14.25	2850.00
1102	565#	3% cacl2	.70	395.50
1118B	375#	2% gel	.20	75.00
1107	50#	¼# flocele/sk	2.22	111.00
5402A	9.4	ton mileage bulk trk	1.26	1480.50
4432	1	8 5/8" wooden plug	80.00	80.00
4106	1	8 5/8" basket	320.00	320.00
			subtotal	6587.00
		7.3%	SALES TAX	279.70
			ESTIMATED TOTAL	6866.70

Ravin 3737

8456654

AUTHORIZTION Dean Cox TITLE DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

DRILL STEM TEST REPORT

Daystar Petroleum, Inc.

P.O. Box 560
Eureka, KS 67045

ATTN: Matt Osborn

19/7S/12E-Pottawatomie

Pfrang #1-19

Job Ticket: 44207 **DST#: 1**

Test Start: 2011.11.10 @ 14:09:30

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:09:00
Time Test Ended: 23:23:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 38

Interval: 3125.00 ft (KB) To 3135.00 ft (KB) (TVD)
Total Depth: 3135.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

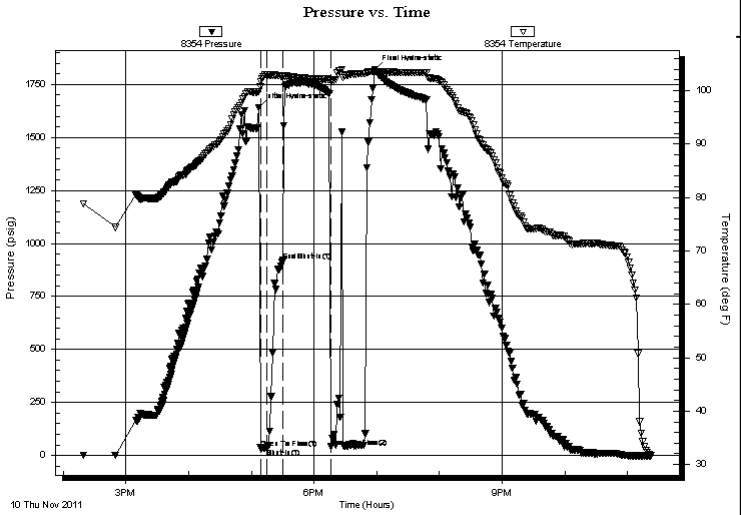
Reference Elevations: 1304.00 ft (KB)
1294.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8354 **Inside**

Press@RunDepth: 34.40 psig @ 3127.00 ft (KB)
Start Date: 2011.11.10 End Date: 2011.11.10
Start Time: 14:19:30 End Time: 23:23:00

Capacity: 8000.00 psig
Last Calib.: 2011.11.10
Time On Btm: 2011.11.10 @ 17:07:00
Time Off Btm: 2011.11.10 @ 18:58:00

TEST COMMENT: IF-Weak blow . Built to 1 inch. Died off to 1/4 inch.
ISI-No Return.
FF-No Blow . Flushed tool. Few bubbles. No Blow .
FSI-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1640.38	99.78	Initial Hydro-static
2	31.98	101.65	Open To Flow (1)
8	34.40	102.96	Shut-In(1)
24	919.81	102.64	End Shut-In(1)
69	40.82	101.82	Open To Flow (2)
111	1821.31	103.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	100%Mud	0.17

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Daystar Petroleum, Inc.

P.O. Box 560
Eureka, KS 67045

ATTN: Matt Osborn

19/7S/12E-Pottawatomie

Pfrang #1-19

Job Ticket: 44207 **DST#: 1**

Test Start: 2011.11.10 @ 14:09:30

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:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.17 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	700.00 ppm				
Filter Cake:	inches				

Recovery Information

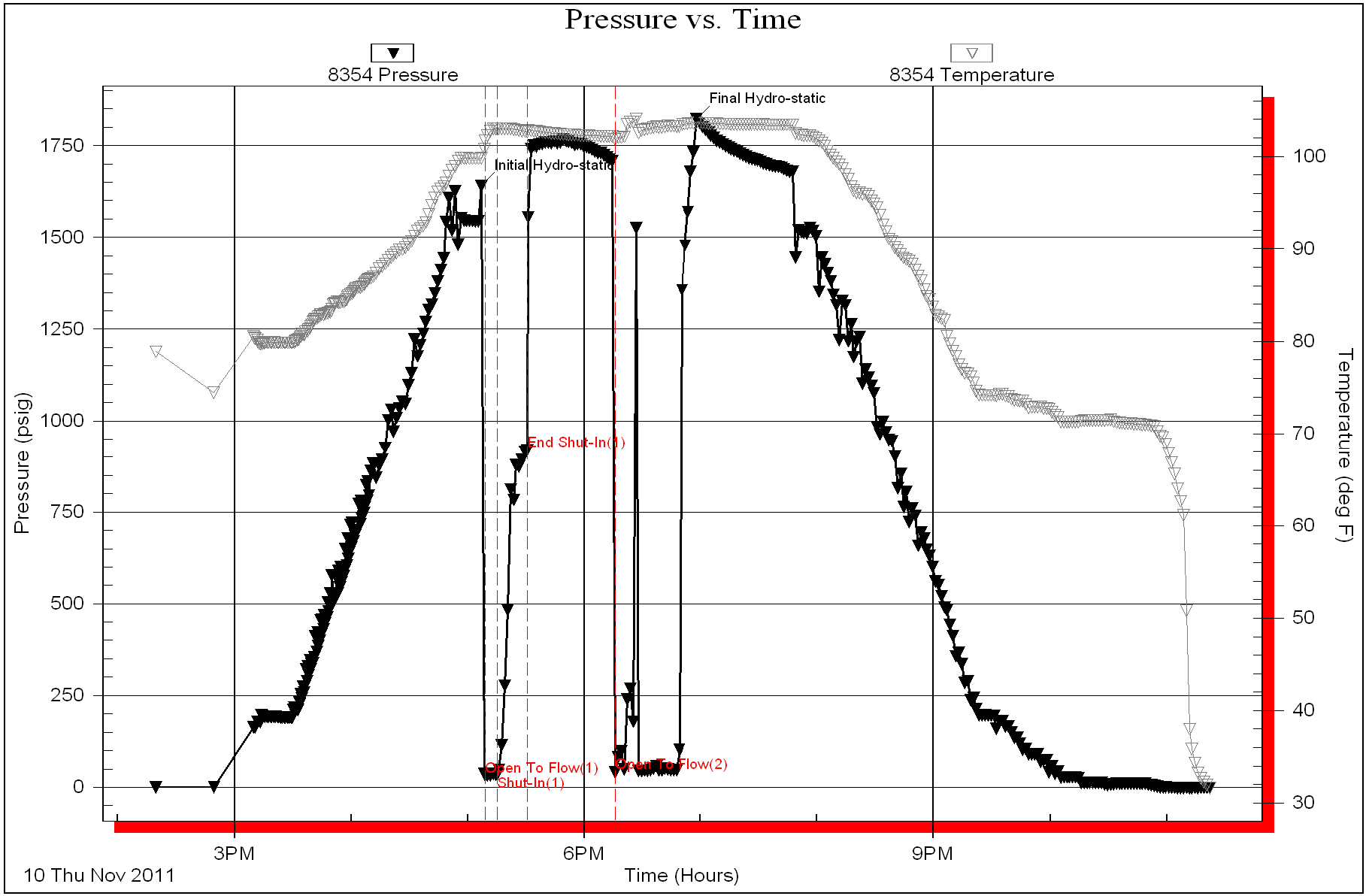
Recovery Table

Length ft	Description	Volume bbl
35.00	100%Mud	0.172

Total Length: 35.00 ft Total Volume: 0.172 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8354 **Inside** Daystar Petroleum, Inc. Pfrang #1-19 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 44207 Printed: 2011.11.11 @ 07:59:48

DRILL STEM TEST REPORT

Daystar Petroleum, Inc.

P.O. Box 560
Eureka, KS 67045

ATTN: Matt Osborn

19/7S/12E-Pottawatomie

Pfrang #1-19

Job Ticket: 44208 **DST#: 2**

Test Start: 2011.11.12 @ 08:38:15

GENERAL INFORMATION:

Formation: **Simpson Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:33:45
Time Test Ended: 18:12:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 38

Interval: 3289.00 ft (KB) To 3320.00 ft (KB) (TVD)
Total Depth: 3320.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

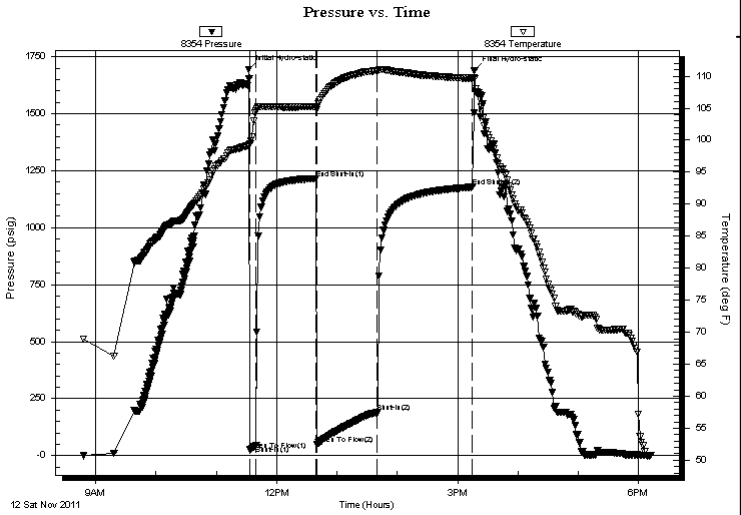
Reference Elevations: 1304.00 ft (KB)
1294.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8354 **Inside**

Press@RunDepth: 188.86 psig @ 3292.00 ft (KB)
Start Date: 2011.11.12 End Date: 2011.11.12
Start Time: 08:48:15 End Time: 18:12:45

Capacity: 8000.00 psig
Last Calib.: 2011.11.12
Time On Btm: 2011.11.12 @ 11:32:15
Time Off Btm: 2011.11.12 @ 15:16:45

TEST COMMENT: IF-Weak building blow . Built to 3 inches.
ISI-No Return.
FF-Weak building blow . BOB in 43 minutes.
FSI-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1694.62	99.15	Initial Hydro-static
2	25.18	99.45	Open To Flow (1)
8	44.20	104.61	Shut-In(1)
67	1215.78	105.22	End Shut-In(1)
68	48.25	104.79	Open To Flow (2)
128	188.86	110.90	Shut-In(2)
223	1178.19	109.65	End Shut-In(2)
225	1688.69	109.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
225.00	85%Water/15%Mud	1.11
90.00	70%Water/30%Mud	0.44
70.00	40%Water/60%Mud	0.35

Gas Rates

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

DRILL STEM TEST REPORT

Daystar Petroleum, Inc.

P.O. Box 560
Eureka, KS 67045

ATTN: Matt Osborn

19/7S/12E-Pottawatomie

Pfrang #1-19

Job Ticket: 44208 **DST#: 2**

Test Start: 2011.11.12 @ 08:38:15

GENERAL INFORMATION:

Formation: **Simpson Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:33:45
Time Test Ended: 18:12:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 38

Interval: 3289.00 ft (KB) To 3320.00 ft (KB) (TVD)
Total Depth: 3320.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

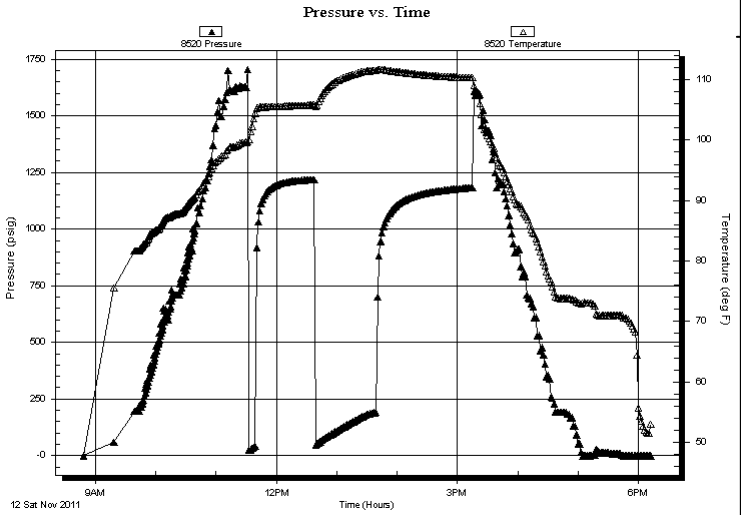
Reference Elevations: 1304.00 ft (KB)
1294.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8520 **Outside**

Press@RunDepth: psig @ 3292.00 ft (KB)
Start Date: 2011.11.12 End Date: 2011.11.12
Start Time: 08:48:30 End Time: 18:12:00

Capacity: 8000.00 psig
Last Calib.: 2011.11.12
Time On Btm:
Time Off Btm:

TEST COMMENT: IF-Weak building blow . Built to 3 inches.
ISI-No Return.
FF-Weak building blow . BOB in 43 minutes.
FSI-No Return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
225.00	85%Water/15%Mud	1.11
90.00	70%Water/30%Mud	0.44
70.00	40%Water/60%Mud	0.35

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Daystar Petroleum, Inc.

P.O. Box 560
Eureka, KS 67045

ATTN: Matt Osborn

19/7S/12E-Pottawatomie

Pfrang #1-19

Job Ticket: 44208 **DST#: 2**

Test Start: 2011.11.12 @ 08:38:15

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	10.00 lb/gal	Cushion Length:	ft	Water Salinity:	13500 ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.80 in³	Gas Cushion Type:			
Resistivity:	0.64 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	400.00 ppm				
Filter Cake:	inches				

Recovery Information

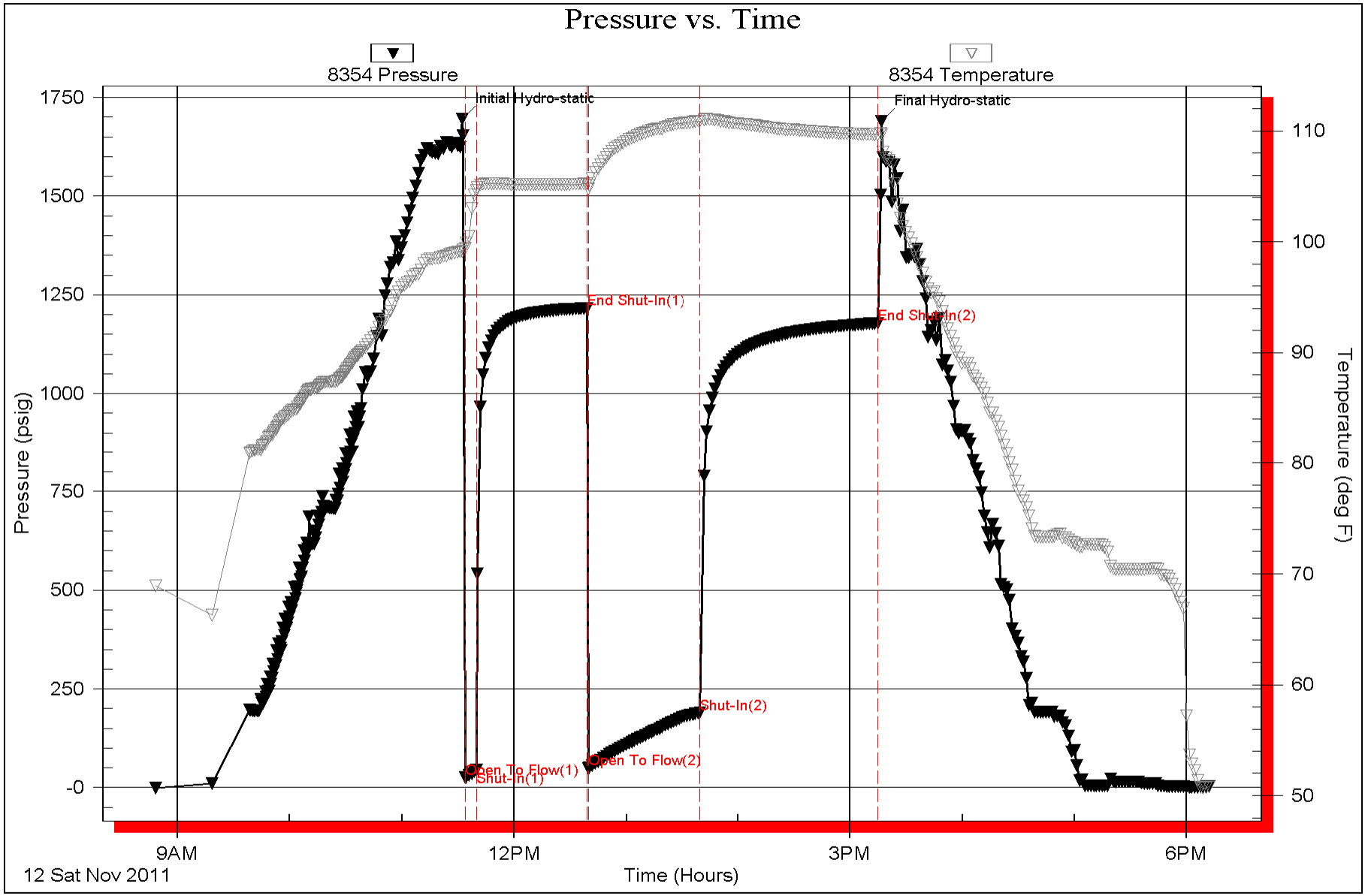
Recovery Table

Length ft	Description	Volume bbl
225.00	85%Water/15%Mud	1.107
90.00	70%Water/30%Mud	0.443
70.00	40%Water/60%Mud	0.355

Total Length: 385.00 ft Total Volume: 1.905 bbl

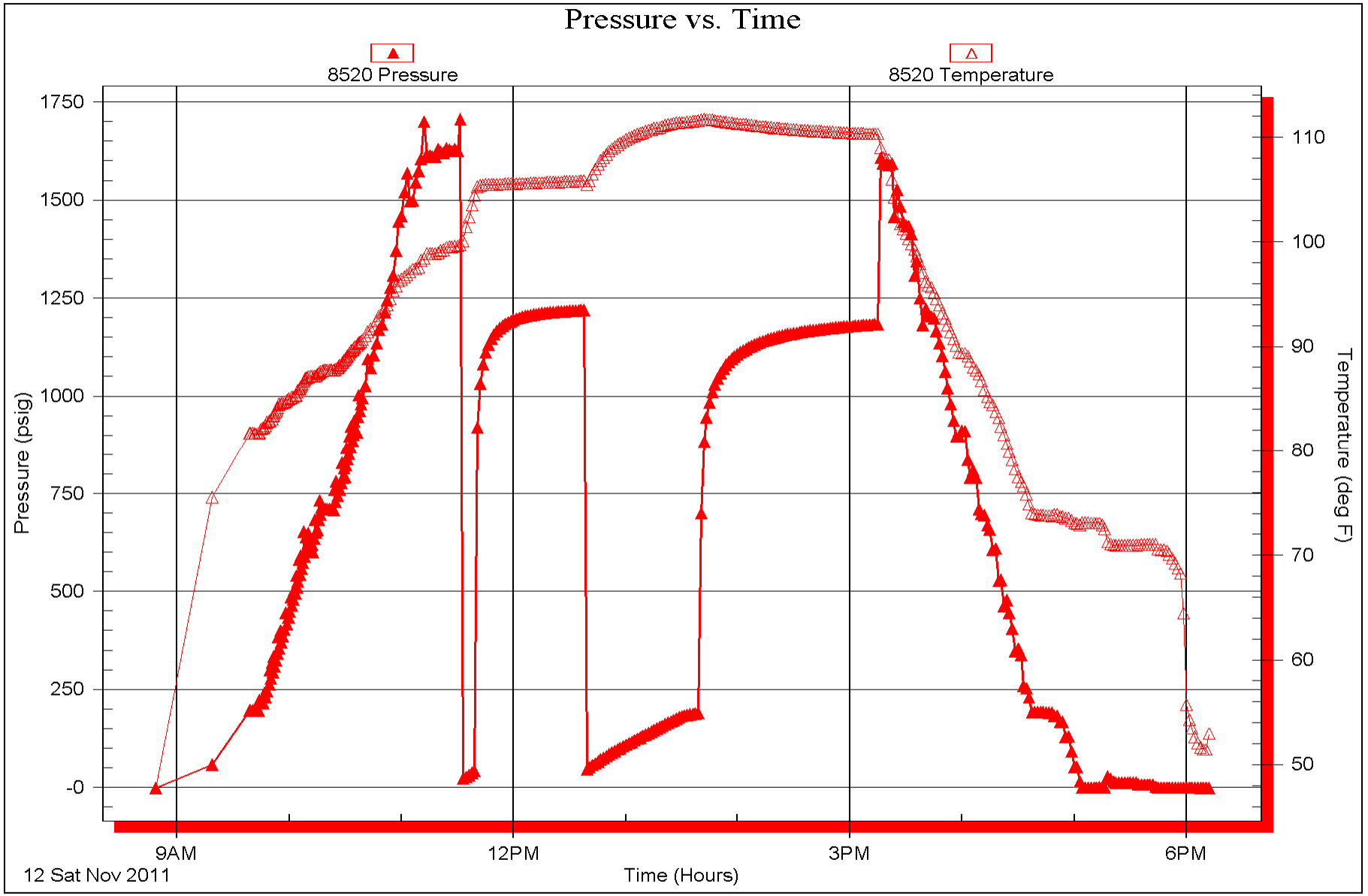
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8354 **Inside** Daystar Petroleum, Inc. Pfrang #1-19 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 44208 Printed: 2011.11.13 @ 09:18:36

Serial #: 8520 **Outside** Daystar Petroleum, Inc. Pfrang #1-19 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 44208 Printed: 2011.11.13 @ 09:18:36

DRILL STEM TEST REPORT

Daystar Petroleum, Inc.

P.O. Box 560
Eureka, KS 67045

ATTN: Matt Osborn

19/7S/12E-Pottawatomie

Pfrang #1-19

Job Ticket: 44209 **DST#: 3**

Test Start: 2011.11.13 @ 18:04:15

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:14:15
Time Test Ended: 05:41:45

Test Type: Conventional Straddle (Initial)
Tester: Dustin Rash
Unit No: 38

Interval: 3155.00 ft (KB) To 3165.00 ft (KB) (TVD)
Total Depth: 3398.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

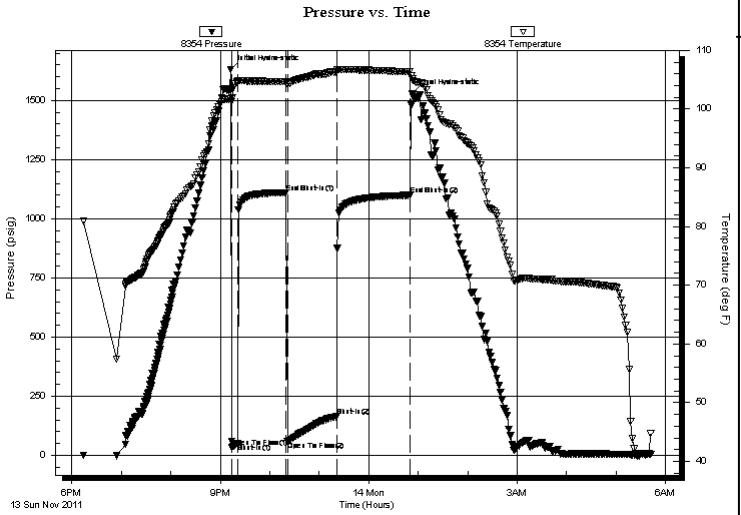
Reference Elevations: 1304.00 ft (KB)
1294.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8354 **Inside**

Press@RunDepth: 166.42 psig @ 3156.00 ft (KB)
Start Date: 2011.11.13 End Date: 2011.11.14
Start Time: 18:14:15 End Time: 05:41:45

Capacity: 8000.00 psig
Last Calib.: 2011.11.14
Time On Btm: 2011.11.13 @ 21:12:15
Time Off Btm: 2011.11.14 @ 00:52:45

TEST COMMENT: IF-Weak building blow . Built to 4 inches.
ISI-No Return.
FF-Weak building blow . BOB in 37 minutes.
FSI-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1631.15	101.77	Initial Hydro-static
2	32.62	101.86	Open To Flow (1)
9	51.89	104.57	Shut-In(1)
68	1110.49	104.67	End Shut-In(1)
69	57.24	104.25	Open To Flow (2)
129	166.42	106.34	Shut-In(2)
218	1099.81	106.35	End Shut-In(2)
221	1529.14	105.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	10%Oil/90%Mud	0.37
300.00	100%Oil	1.51

Gas Rates

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

DRILL STEM TEST REPORT

Daystar Petroleum, Inc.

P.O. Box 560
Eureka, KS 67045

ATTN: Matt Osborn

19/7S/12E-Pottawatomie

Pfrang #1-19

Job Ticket: 44209 **DST#: 3**

Test Start: 2011.11.13 @ 18:04:15

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:14:15
Time Test Ended: 05:41:45

Test Type: Conventional Straddle (Initial)
Tester: Dustin Rash
Unit No: 38

Interval: 3155.00 ft (KB) To 3165.00 ft (KB) (TVD)
Total Depth: 3398.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

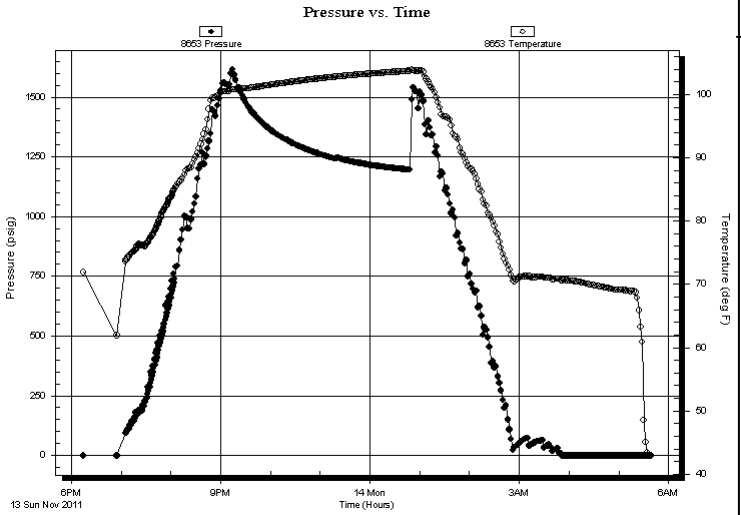
Reference Elevations: 1304.00 ft (KB)
1294.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8653 **Below (Straddle)**

Press@RunDepth: psig @ 3175.00 ft (KB)
Start Date: 2011.11.13 End Date: 2011.11.14
Start Time: 18:14:45 End Time: 05:38:45

Capacity: 8000.00 psig
Last Calib.: 2011.11.14
Time On Btm:
Time Off Btm:

TEST COMMENT: IF-Weak building blow . Built to 4 inches.
ISI-No Return.
FF-Weak building blow . BOB in 37 minutes.
FSI-No Return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
75.00	10%Oil/90%Mud	0.37
300.00	100%Oil	1.51

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Daystar Petroleum, Inc.

P.O. Box 560
Eureka, KS 67045

ATTN: Matt Osborn

19/7S/12E-Pottawatomie

Pfrang #1-19

Job Ticket: 44209 **DST#: 3**

Test Start: 2011.11.13 @ 18:04:15

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	27 deg API
Mud Weight:	10.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.80 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	400.00 ppm				
Filter Cake:	inches				

Recovery Information

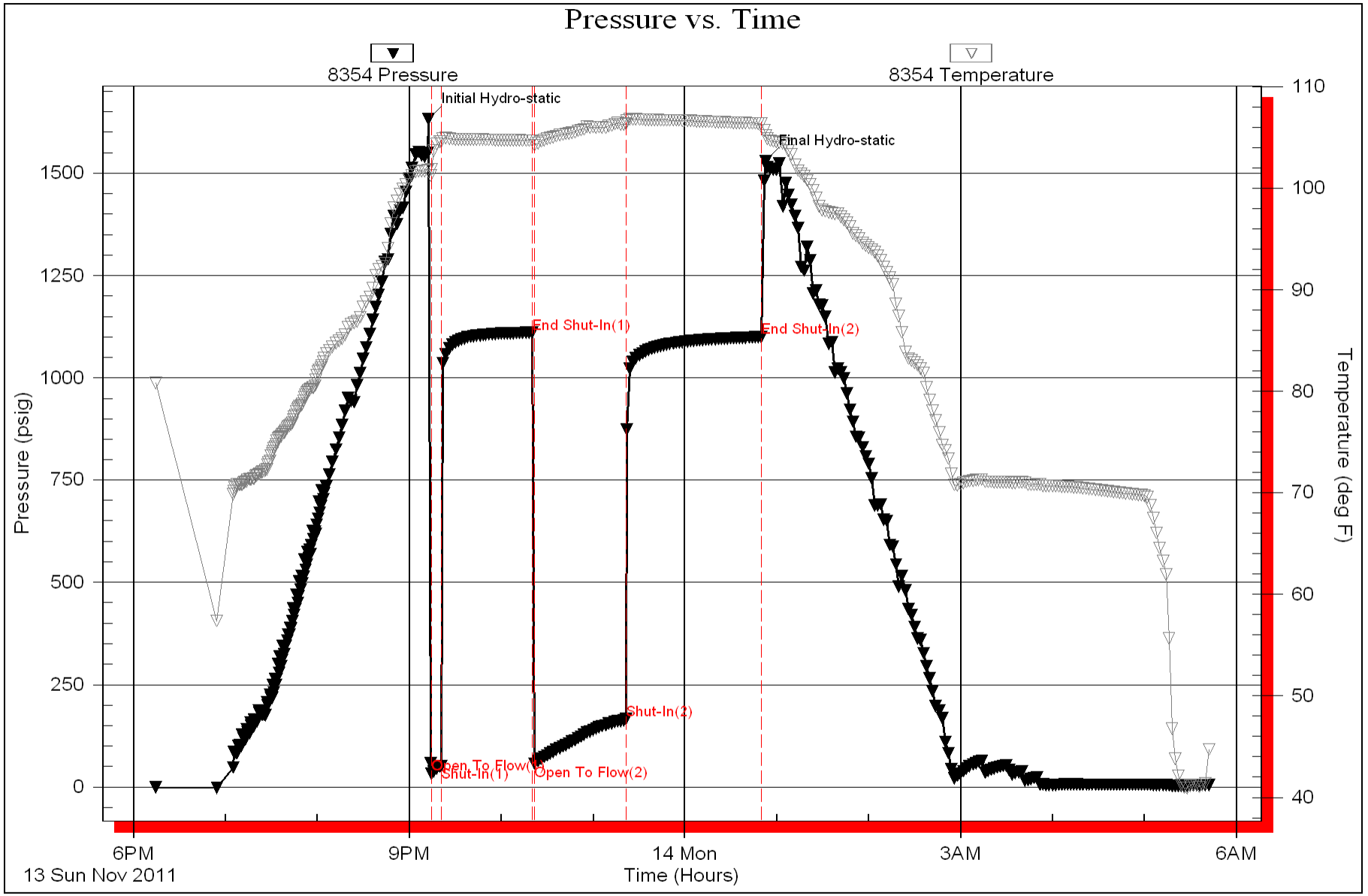
Recovery Table

Length ft	Description	Volume bbl
75.00	10%Oil/90%Mud	0.369
300.00	100%Oil	1.510

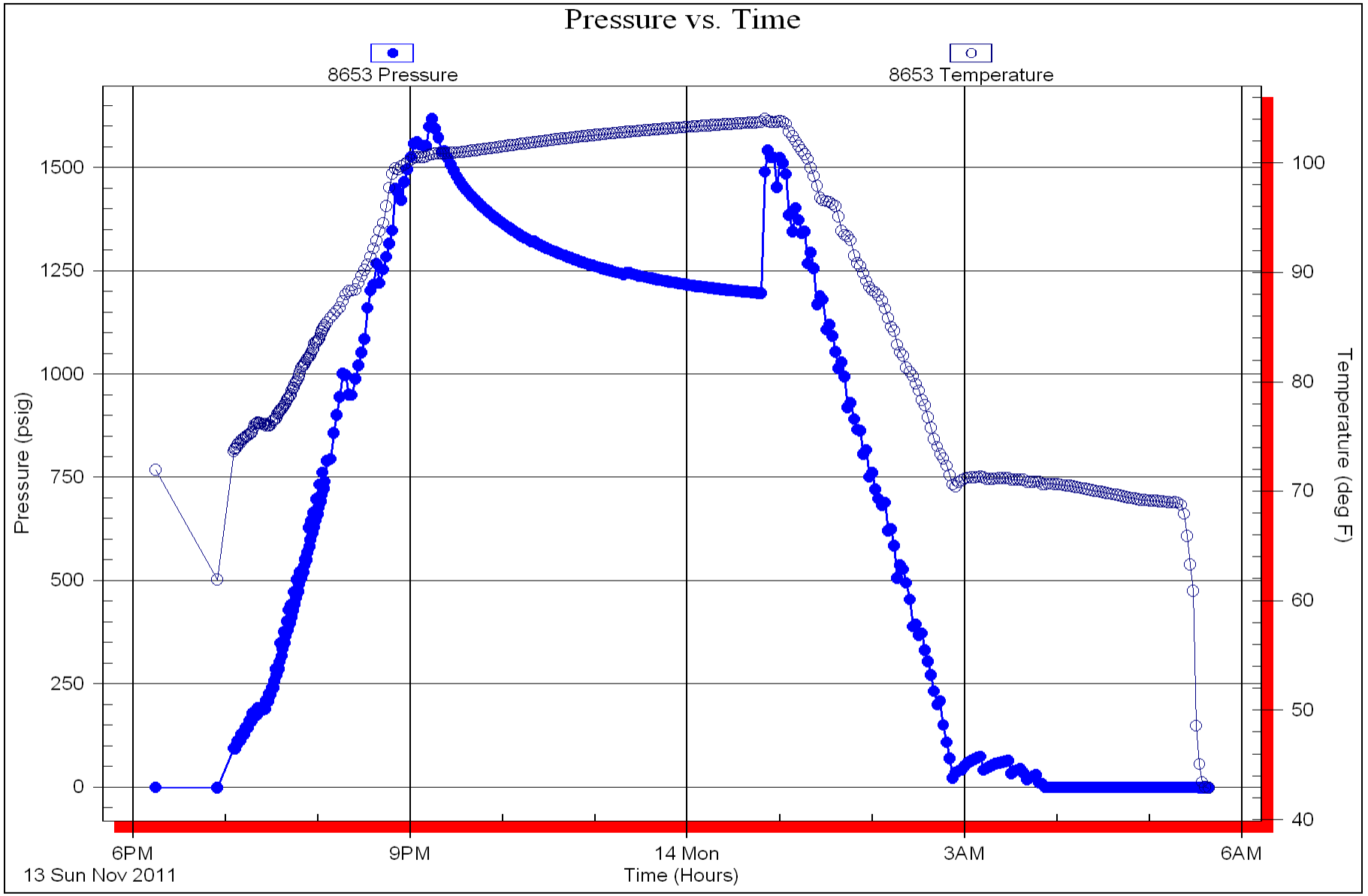
Total Length: 375.00 ft Total Volume: 1.879 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8354 **Inside** Daystar Petroleum, Inc. Pfrang #1-19 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 44209 Printed: 2011.11.14 @ 08:39:53


Pressure vs. Time
8653 Pressure
8653 Temperature
Pressure (psig)
Temperature (deg F)
1500
1250
1000
750
500
250
0
100
90
80
70
60
50
40
6PM
13 Sun Nov 2011
9PM
14 Mon
3AM
6AM
Time (Hours)

LOG-TECH

DIGITAL LOG (785) 625-3858

Dual Induction Log

API No. 15-149-20065-00-00

Company Daystar Petroleum, Inc.

Well Pfrang #1-19

Field Wildcat

County Pottawatomie State Kansas

Location NW SW SW SW
340' FSL / 280' FWL

Sec: 19 Twp: 7S Rge: 12E

Other Services
CNL / CDL
MEL / BHCS

Elevation
K.B. 1304
D.F.
G.L. 1294

Permanent Datum Ground Level
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Elevation 1294

Date	11/13/2011		
Run Number	One		
Depth Driller	3368		
Depth Logger	3398		
Bottom Logged Interval	3397		
Top Log Interval	300		
Casing Driller	8.625 @ 335		
Casing Logger	334		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	400		
Density / Viscosity	9.6 | 53		
pH / Fluid Loss	9.5 | 6.8		
Source of Sample	Flowline		
Rm @ Meas. Temp	1.60 @ 65		
Rmf @ Meas. Temp	1.20 @ 65		
Rmc @ Meas. Temp	2.16 @ 65		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.95 @ 110		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	110		
Equipment Number	15		
Location	Hays		
Recorded By	R. Barnhart		
Witnessed By	Ken LeBlonc		

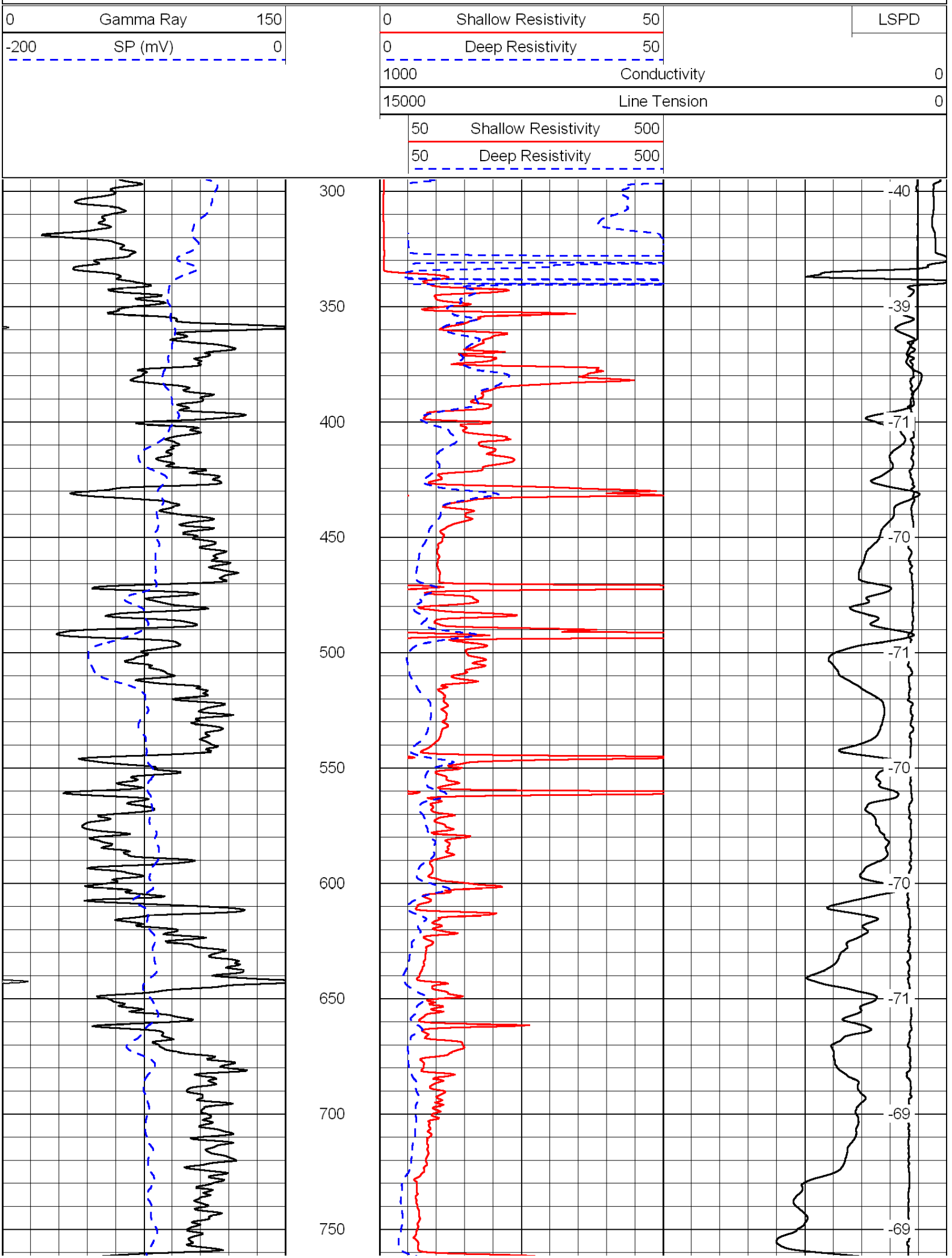
<<< Fold Here >>>

Comments

Thank you for using Log-Tech, Inc.
(785) 625-3858

St. Mary, KS:
18N, 2W, 1S, W into

Database File:	c:\warrior\data\daystar_pfrang #1-19\daystarhd.db
Dataset Pathname:	dil/daymain
Presentation Format:	dil2in
Dataset Creation:	Sun Nov 13 10:27:58 2011
Charted by:	Depth in Feet scaled 1:600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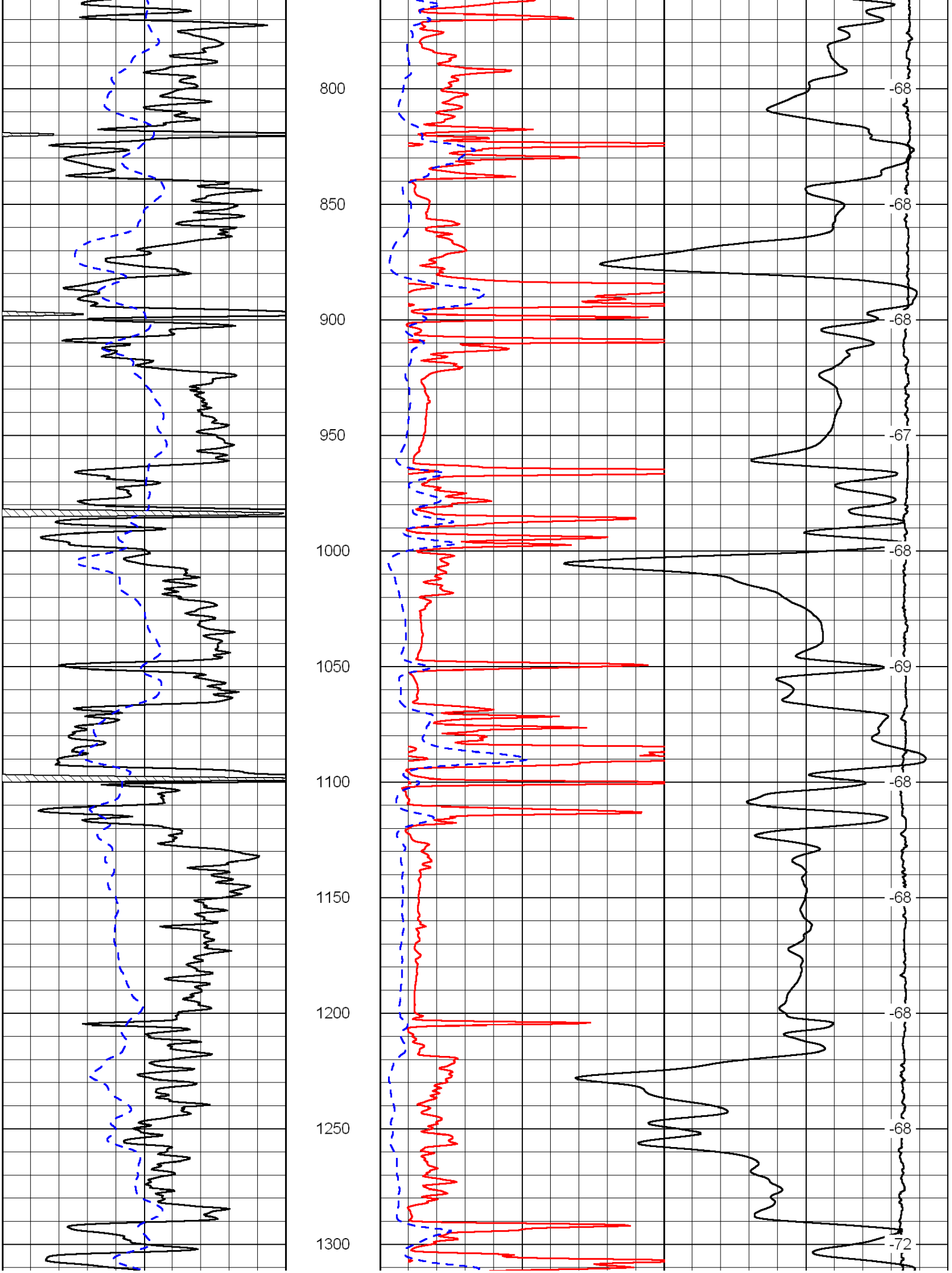
-200 SP (mV) 0
0 Shallow Resistivity 50
0 Deep Resistivity 50
1000 Conductivity 0
15000 Line Tension 0
50 Shallow Resistivity 500
50 Deep Resistivity 500
LSPD
300
350
400
450
500
550
600
650
700
750
-40
-39
-71
-70
-71
-70
-70
-71
-69
-69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850
900
950
1000
1050
1100
1150
1200
1250
1300
-68
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-68
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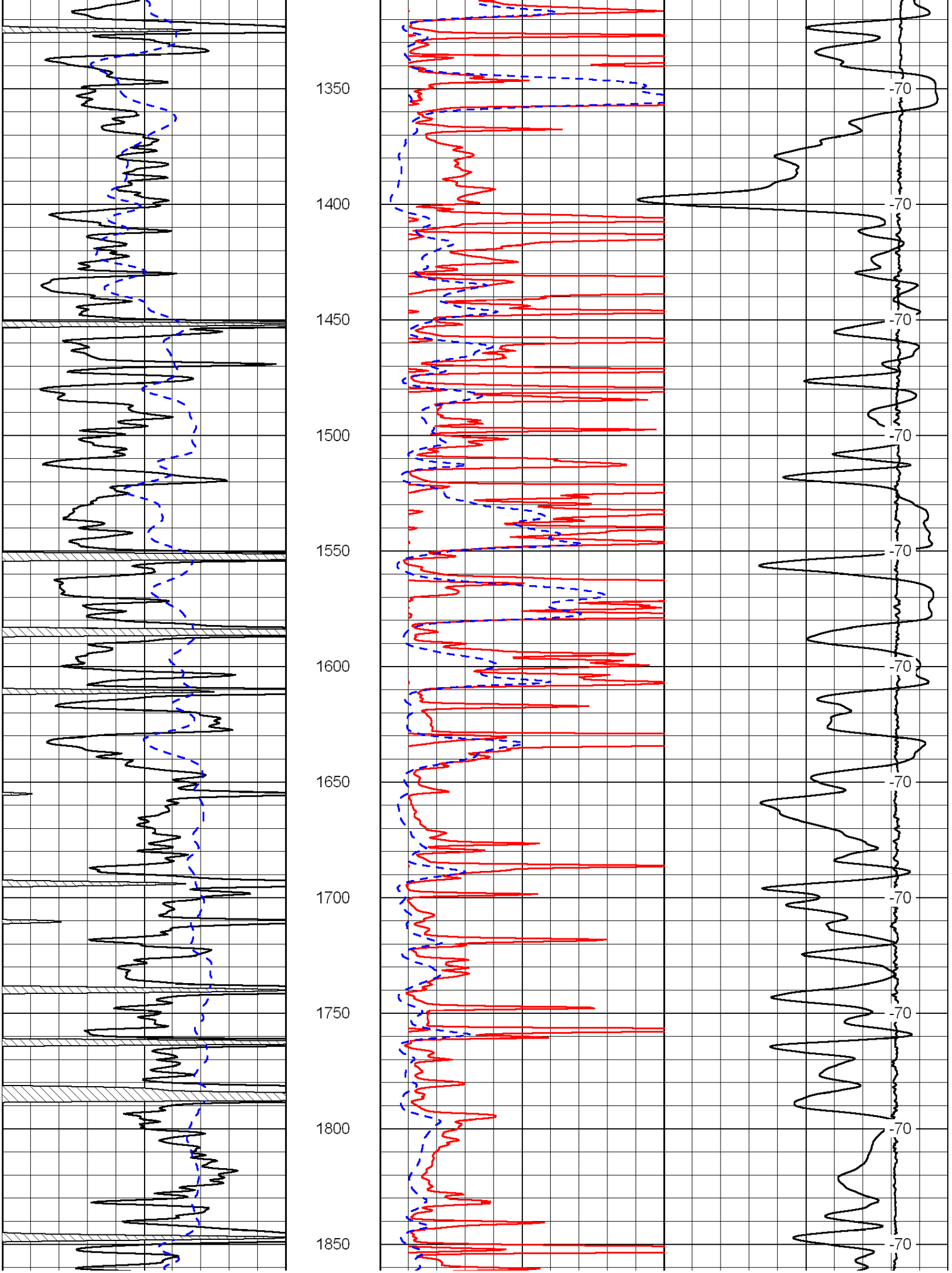
-69
-68
-68
-68
-68
-72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1400
1450
1500
1550
1600
1650
1700
1750
1800
1850
-70
-70
-70
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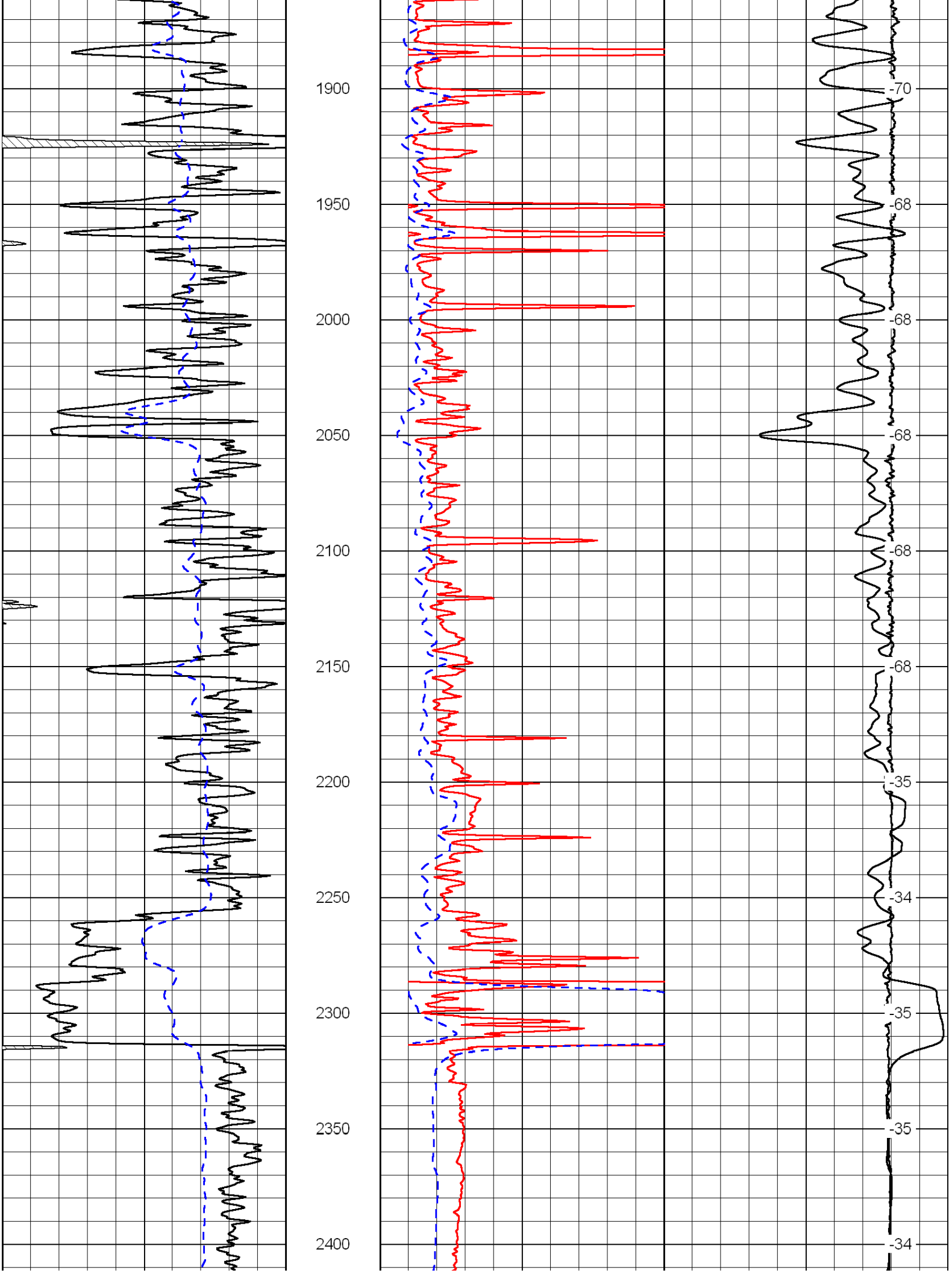
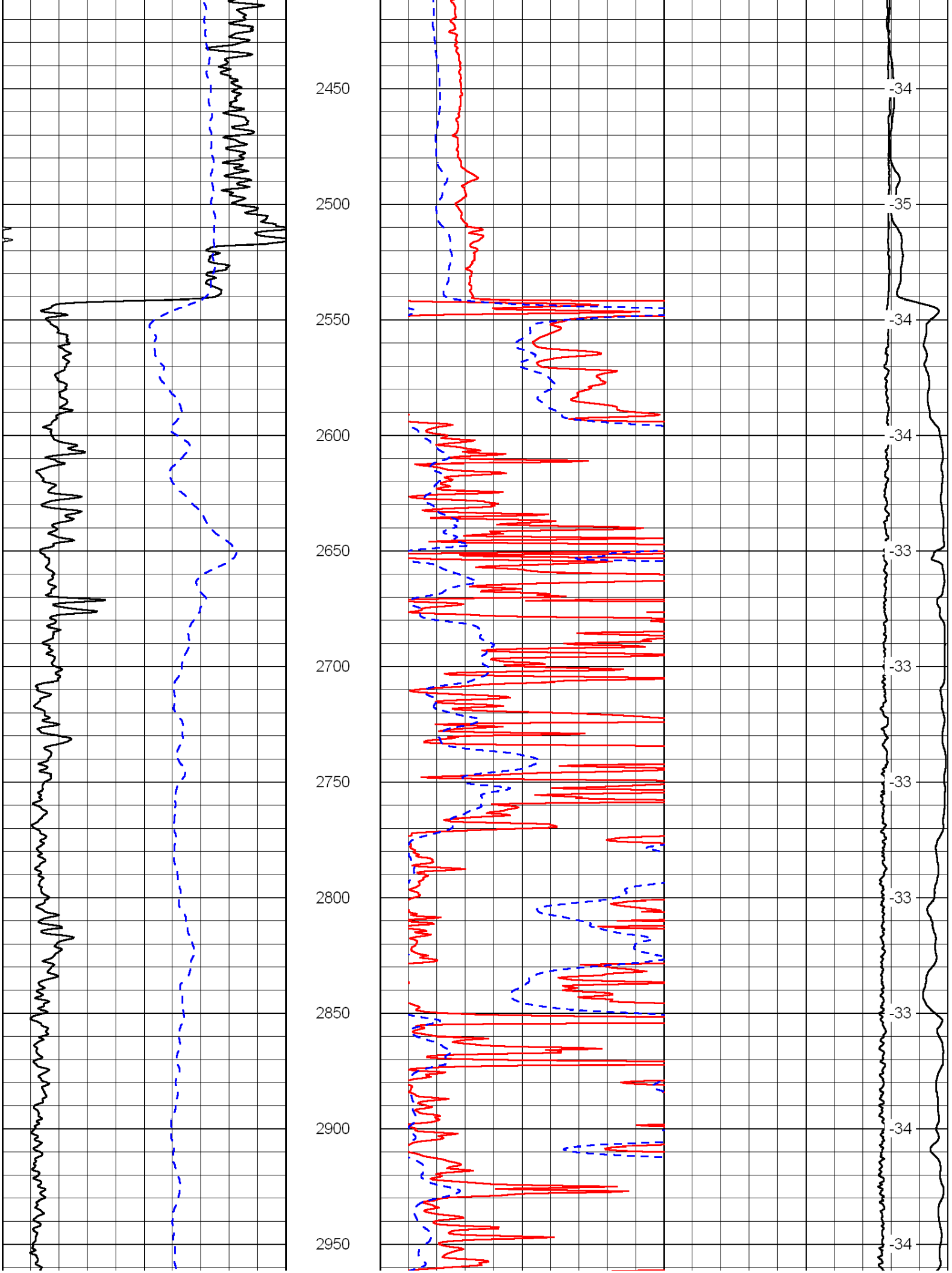
-70
-70
-70
-70
-70
-70


1900
1950
2000
2050
2100
2150
2200
2250
2300
2350
2400
-70
-68
-68
-68
-68
-68
-35
-34
-35
-35
-34


2450
2500
2550
2600
2650
2700
2750
2800
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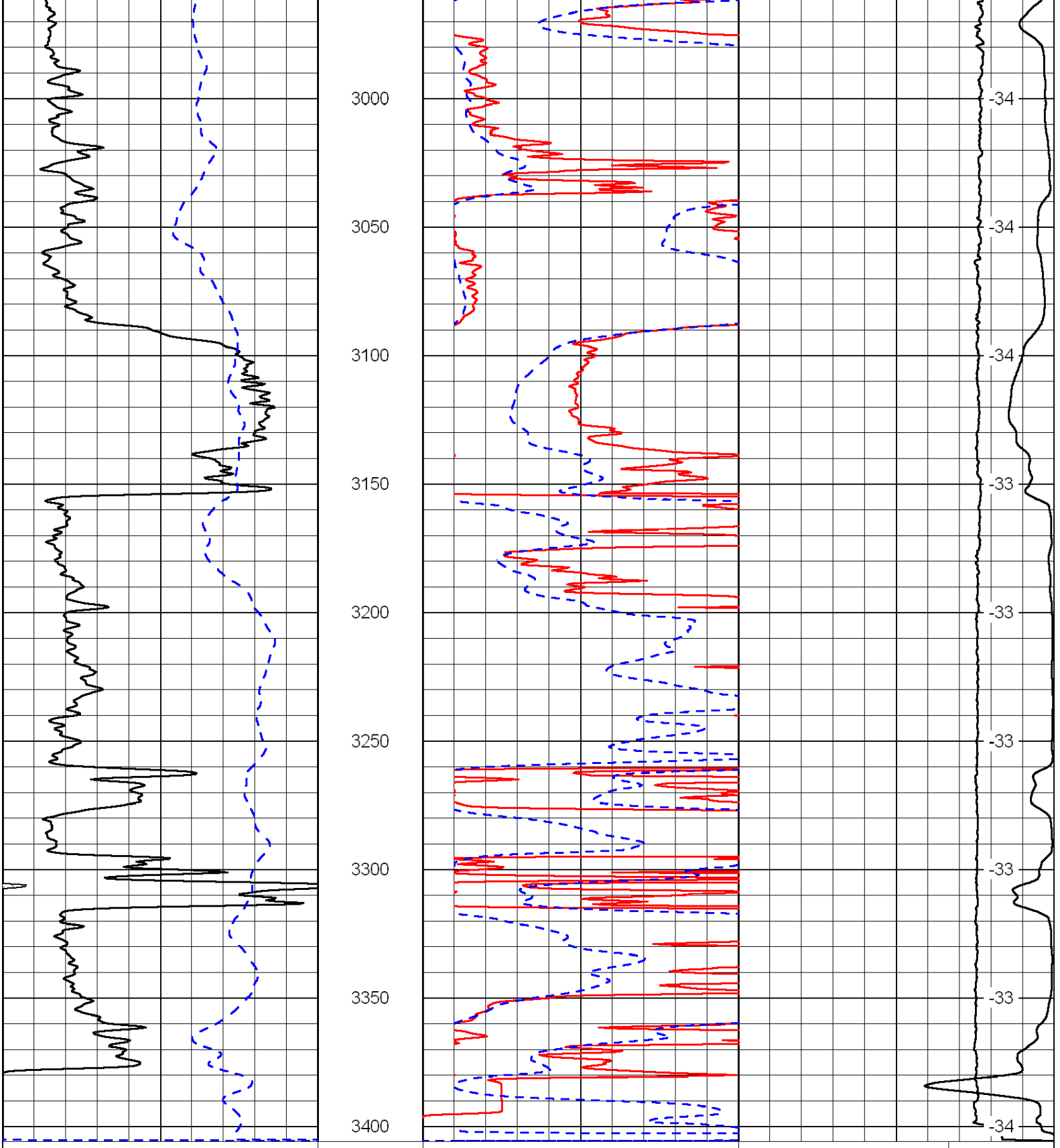
2900
2950
-34
-35
-34
-34
-33
-33
-33
-33
-34
-34



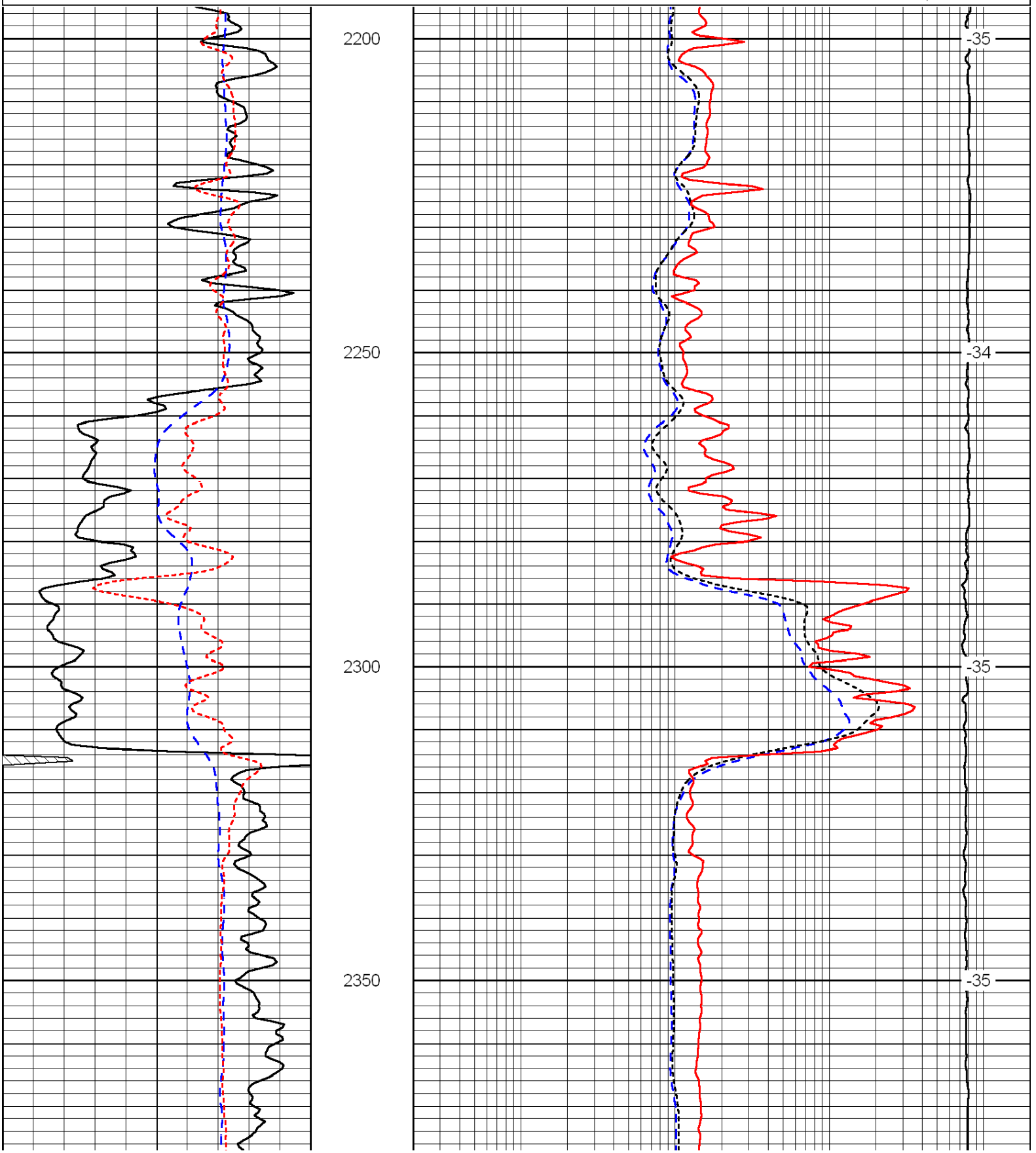
Database File:	c:\warrior\data\daystar_pfrang #1-19\daystarhd.db
Dataset Pathname:	dil/daymain

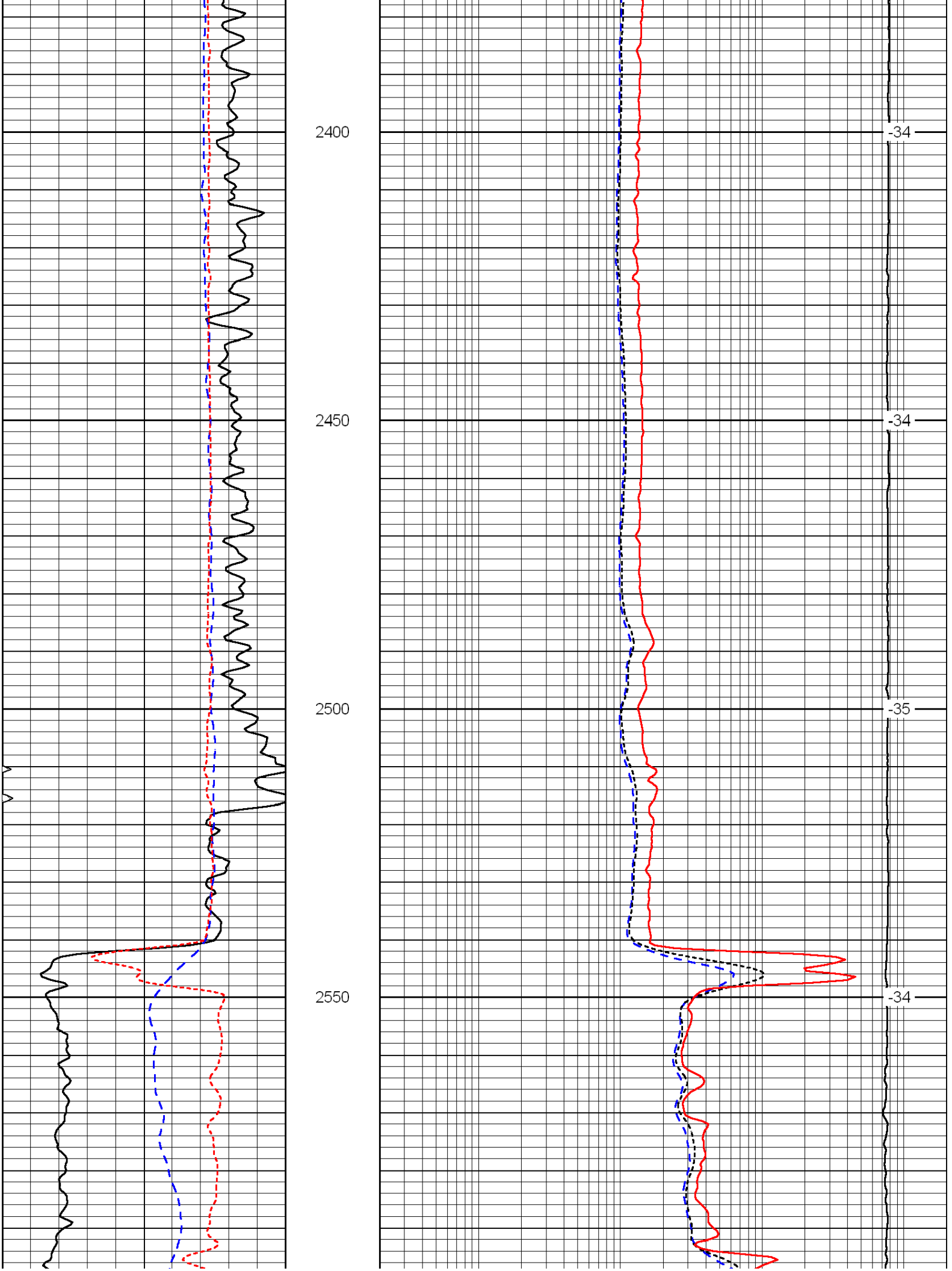
Presentation Format: dil
Dataset Creation: Sun Nov 13 10:27:58 2011
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	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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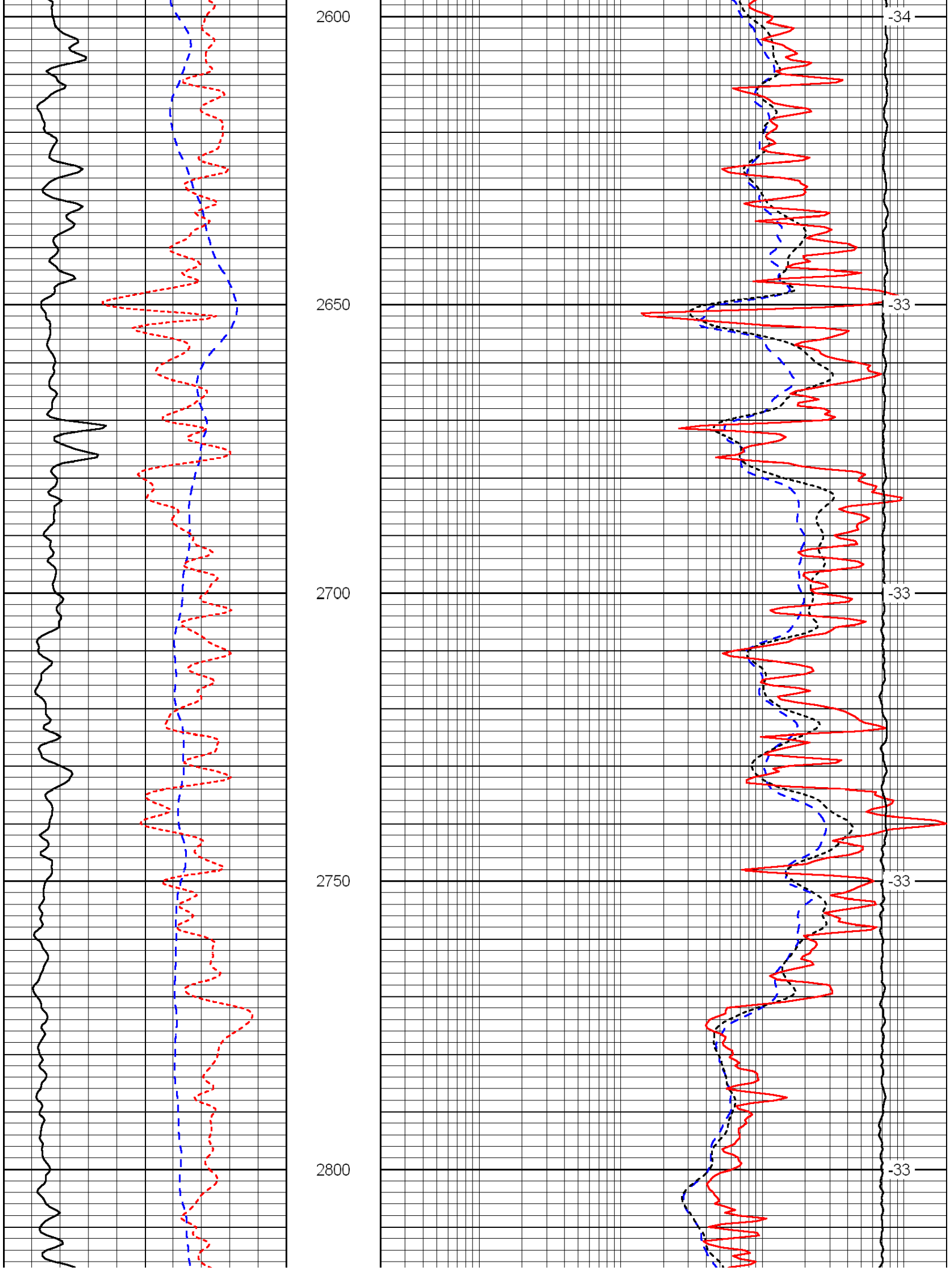
2450
2500
2550
-34
-34
-35
-34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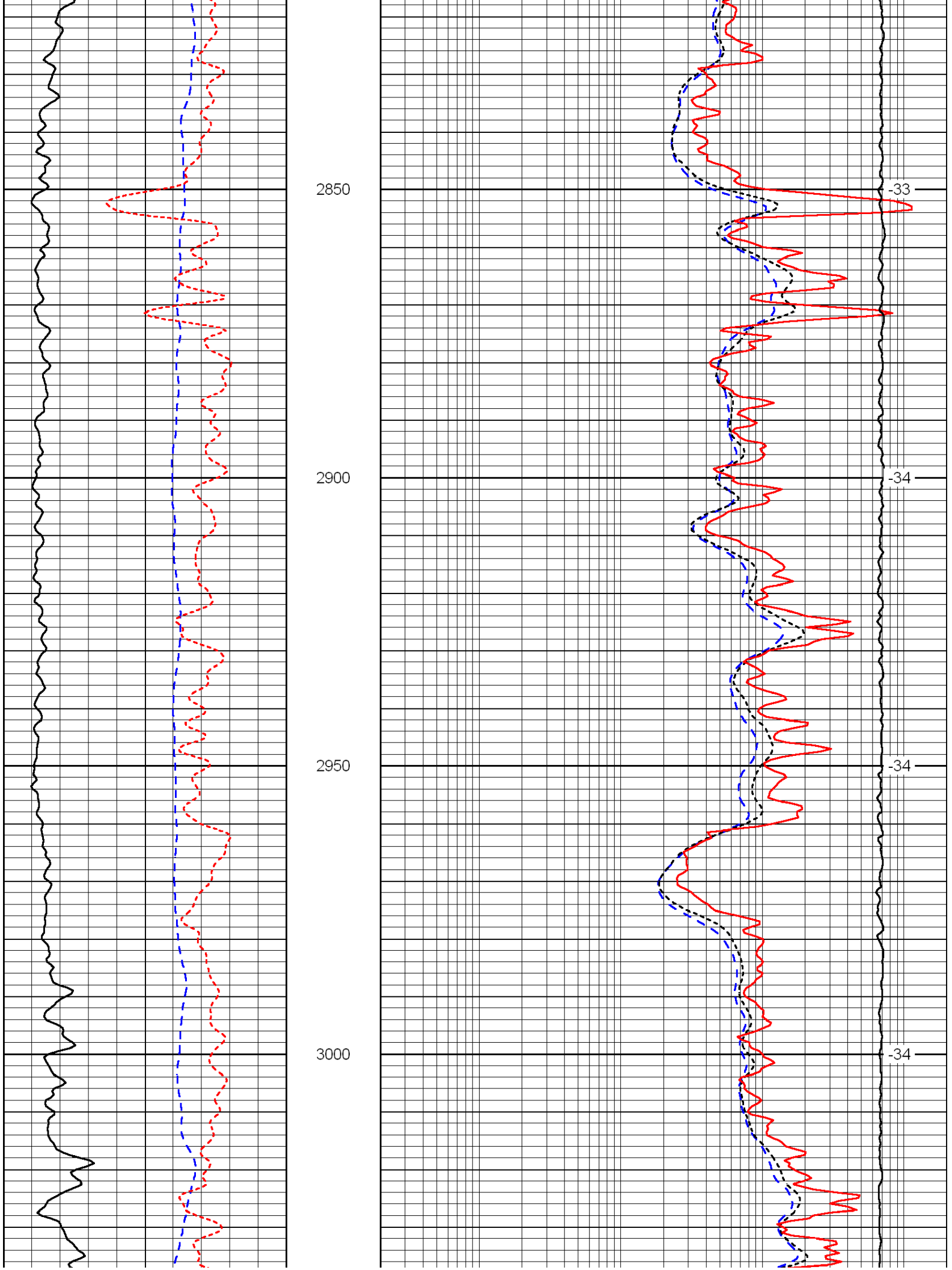
2650
2700
2750
2800
-34
-33
-33
-33
-33


2850
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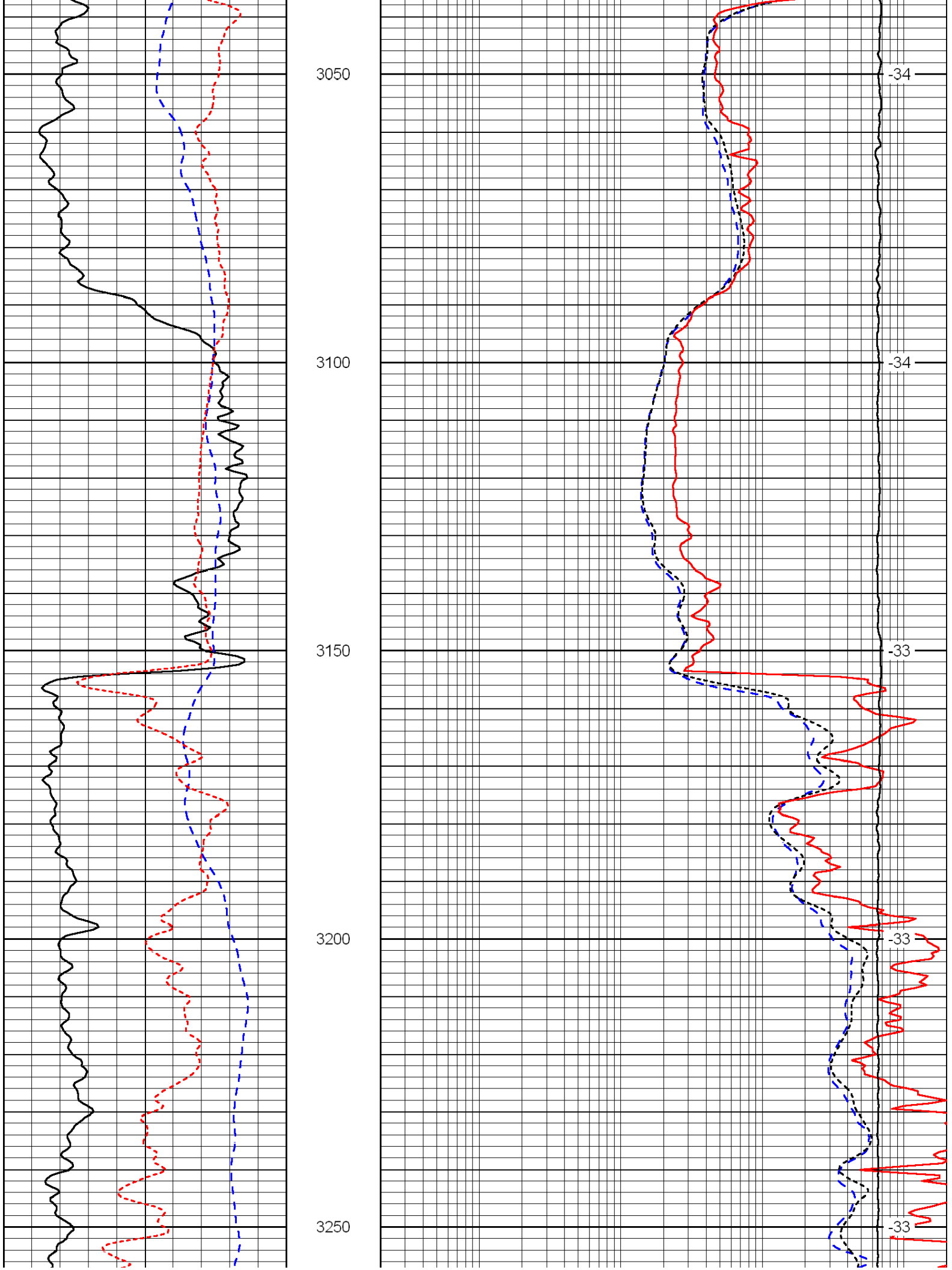
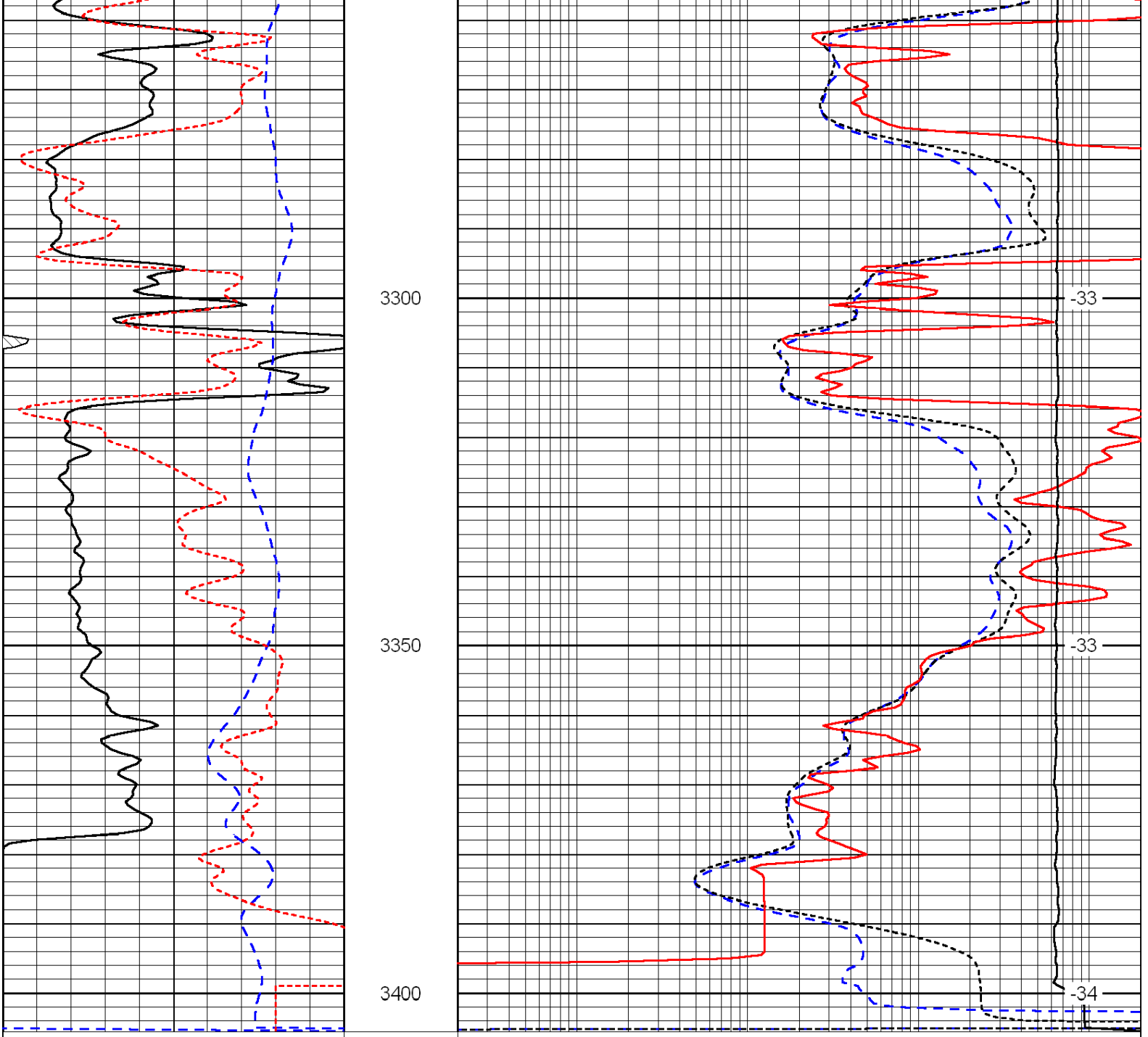
2950
3000
-33
-34
-34
-34


3050
3100
3150
3200
3250
-34
-34
-33
-33
-33


3300
3350
3400
-33
-33
-34
0
Gamma Ray
150
-200
SP (mV)
0
-160
Rxo / Rt
40
0.2
Deep Resistivity
2000
0.2
Medium Resistivity
2000
0.2
Shallow Resistivity
2000
15000
Line Tension
0
LSPD

LOG-TECH

DIGITAL LOG (785) 625-3858

Dual Compensated Porosity Log

API No. 15-149-20065-00-00

Company Daystar Petroleum, Inc.

Well Pfrang #1-19

Field Wildcat

County Pottawatomie State Kansas

Location NW SW SW SW
340' FSL / 280' FWL
Sec: 19 Twp: 7S Rge: 12E

Other Services
DIL
MEL / BHCS

Elevation
K.B. 1304
D.F.
G.L. 1294

Permanent Datum Ground Level Elevation 1294
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date	11/13/2011
Run Number	One
Type Log	CNL / CDL
Depth Driller	3368
Depth Logger	3398
Bottom Logged Interval	3377
Top Logged Interval	2200
Type Fluid In Hole	Chemical
Salinity, PPM CL	400
Density	9.6
Level	Full
Max. Rec. Temp. F	110
Operating Rig Time	4 Hours
Equipment -- Location	15 Hays
Recorded By	R. Barnhart
Witnessed By	Ken LeBlonc

Borehole Record

Run No.	Bit	From	To
1	12.25	00	335
2	7.875	335	3368

Casing Record

Size	Wgt.	From	To
8.625	24#	00	335

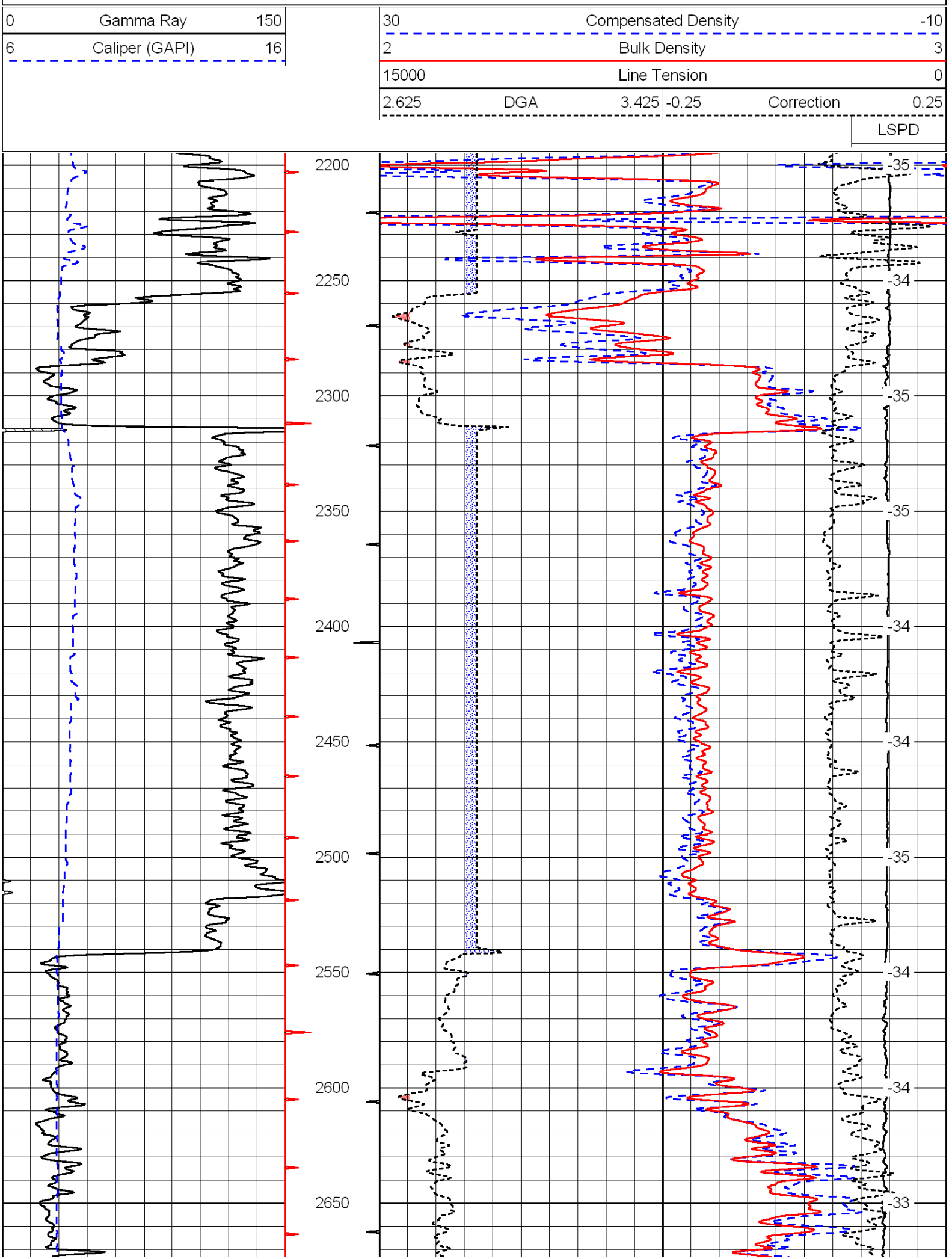
<<< Fold Here >>>

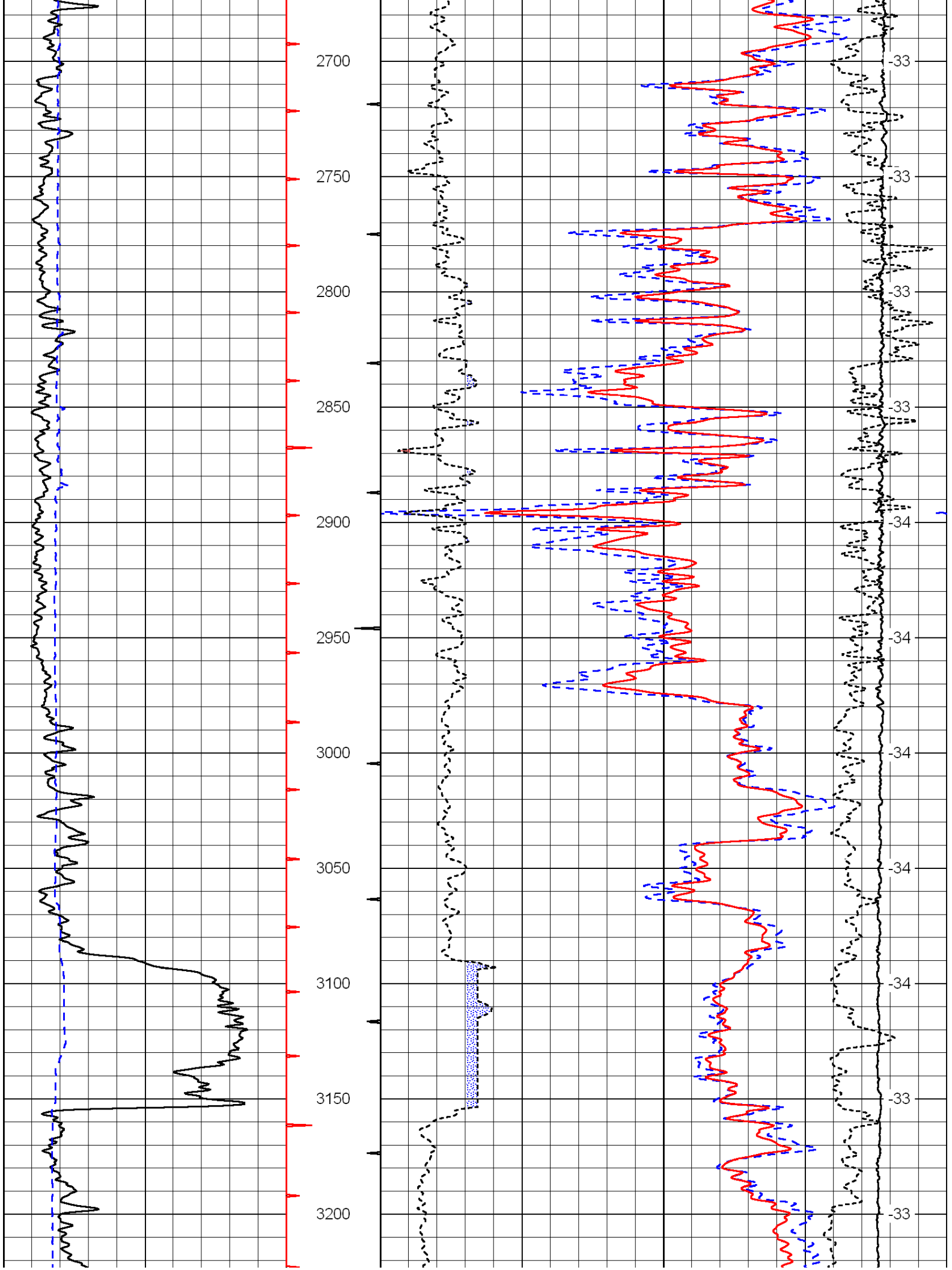
Comments

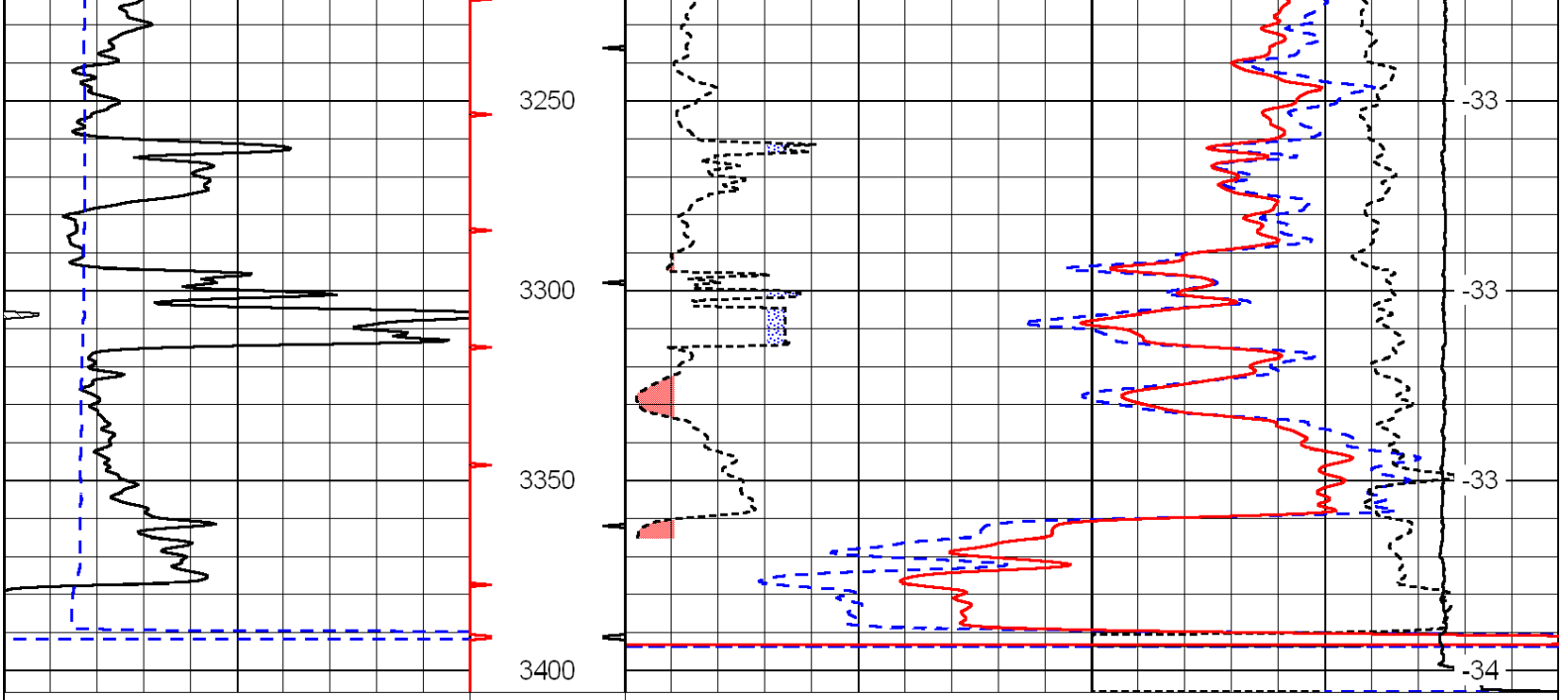
Thank you for using Log-Tech, Inc.
(785) 625-3858

St. Mary, KS:
18N, 2W, 1S, W into

Database File: c:\warrior\data\daystar_pfrang #1-19\daystarhd.db
Dataset Pathname: dil/daymain
Presentation Format: cdl
Dataset Creation: Sun Nov 13 10:27:58 2011
Charted by: Depth in Feet scaled 1:600


0 Gamma Ray 150
6 Caliper (GAPI) 16
30 Compensated Density -10
2 Bulk Density 3
15000 Line Tension 0
2.625 DGA 3.425
-0.25 Correction 0.25
LSPD
2200
2250
2300
2350
2400
2450
2500
2550
2600
2650
-35
-34
-35
-35
-34
-34
-35
-34
-34
-33


2700
2750
2800
2850
2900
2950
3000
3050
3100
3150
3200
-33
-33
-33
-33
-34
-34
-34
-34
-34
-33
-33



Database File: c:\warrior\data\daystar_pfrang #1-19\daystarhd.db
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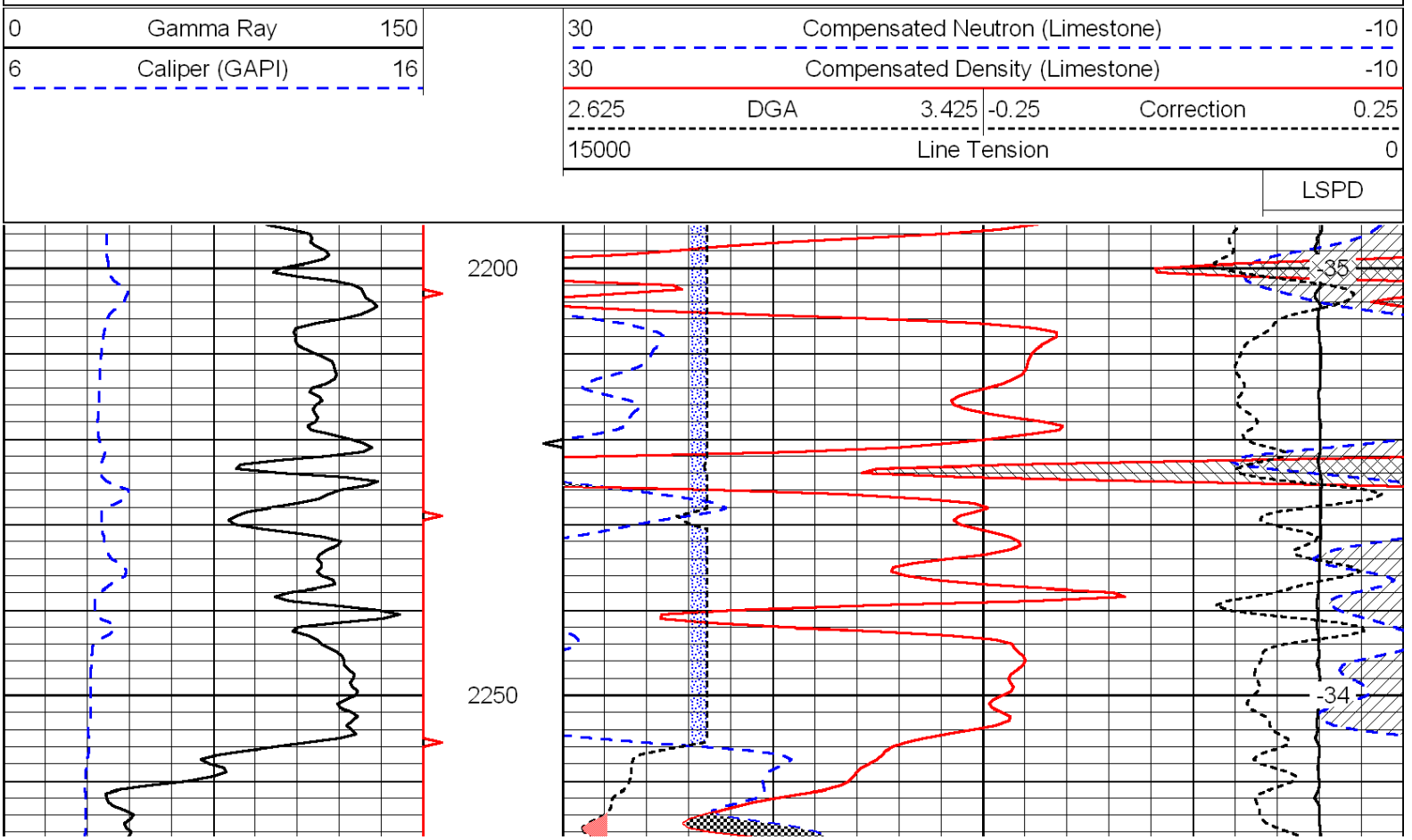
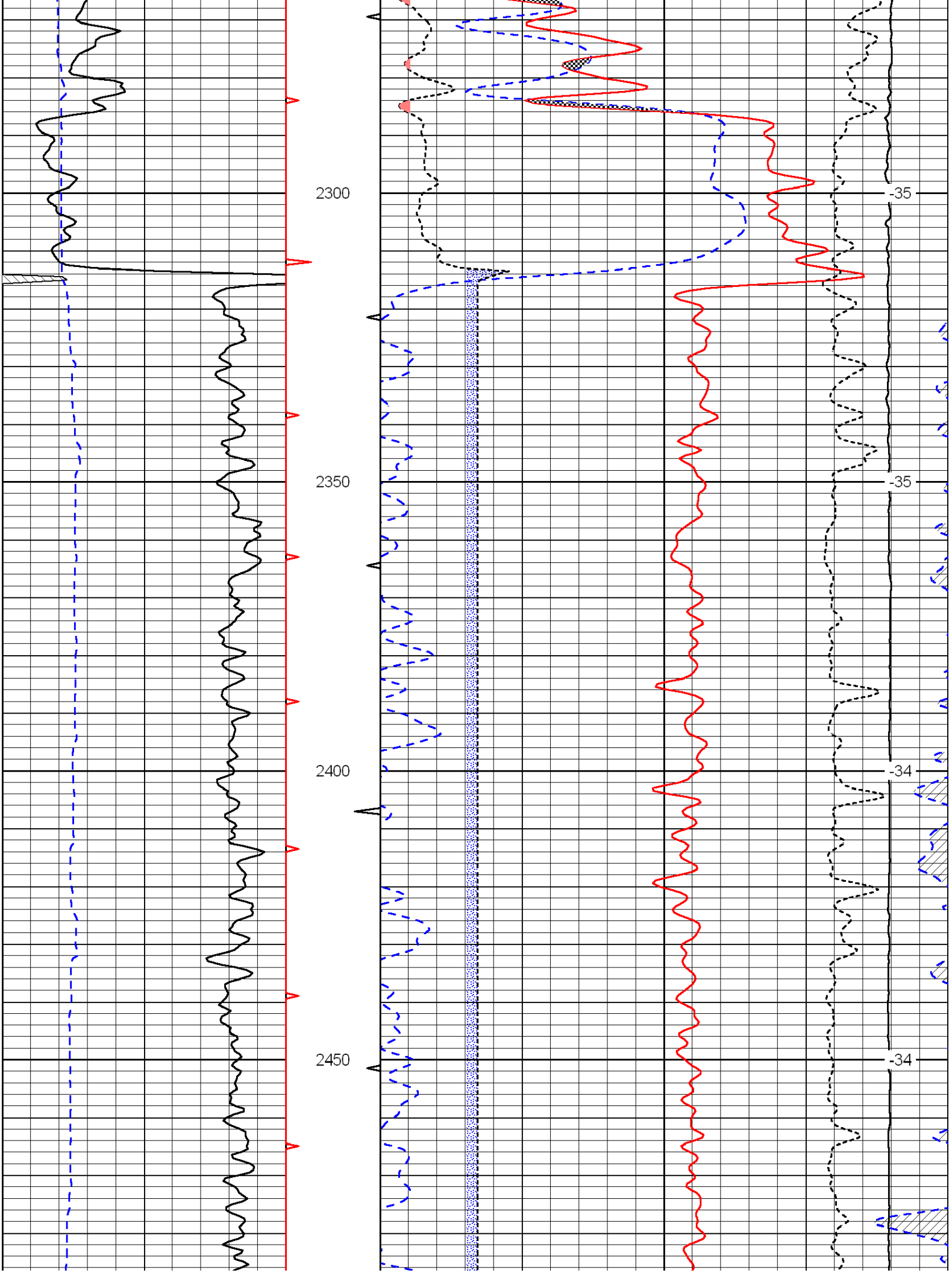
Presentation Format: cndlspec
Dataset Creation: Sun Nov 13 10:27:58 2011
Charted by: Depth in Feet scaled 1:240

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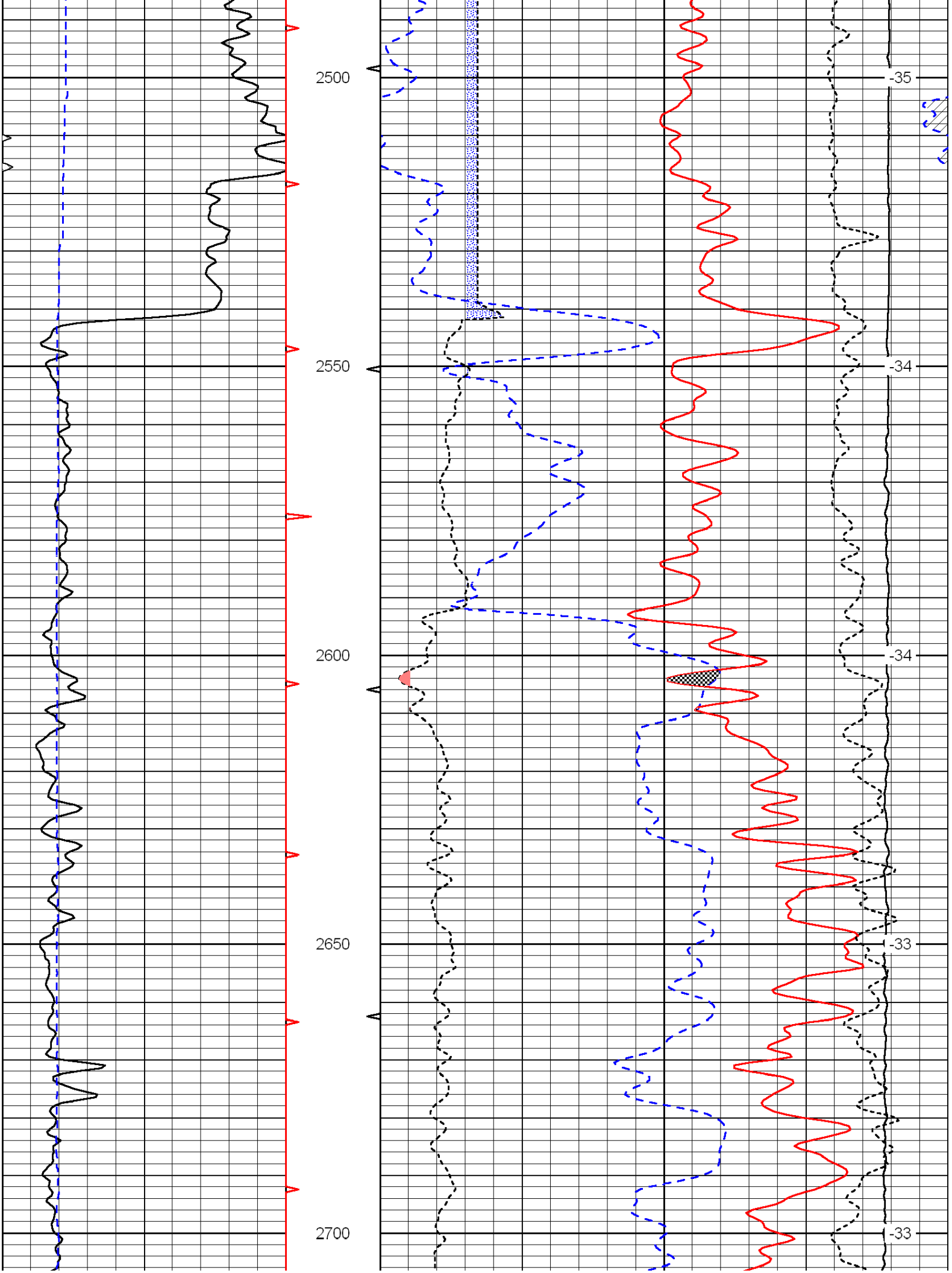
2350
2400
2450
-35
-35
-34
-34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2550
2600
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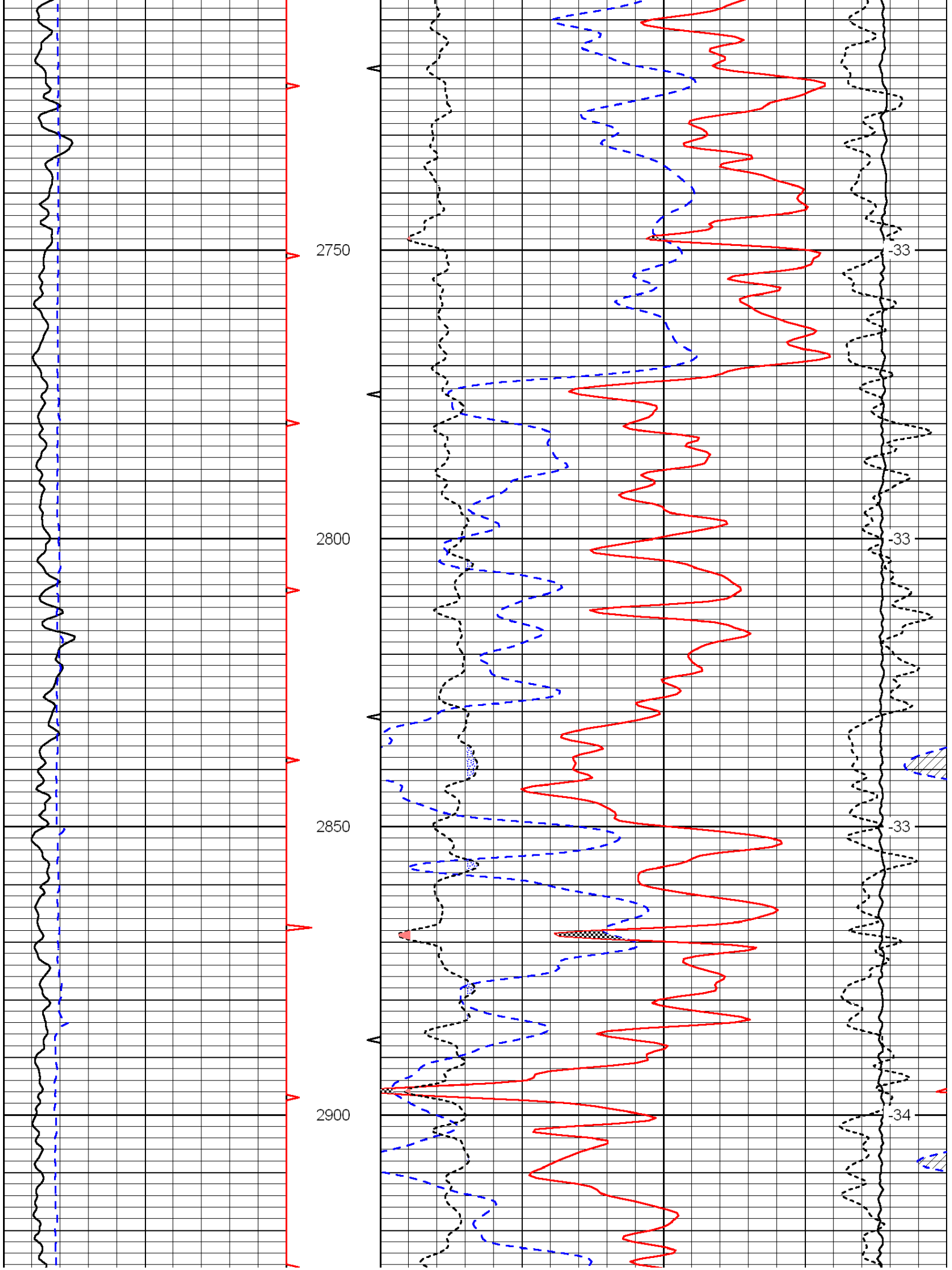
2700
-35
-34
-34
-33
-33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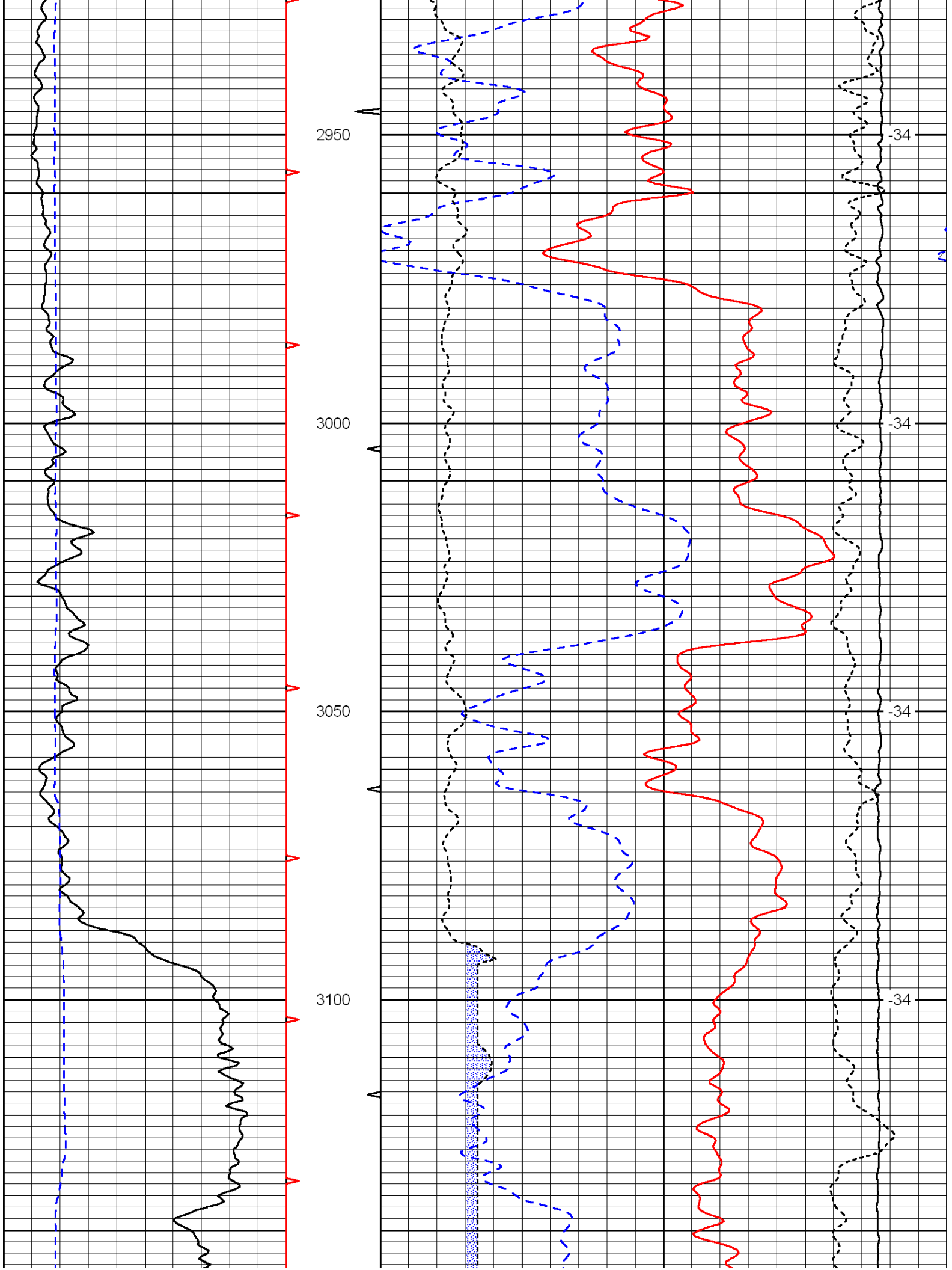
2800
2850
2900
-33
-33
-33
-34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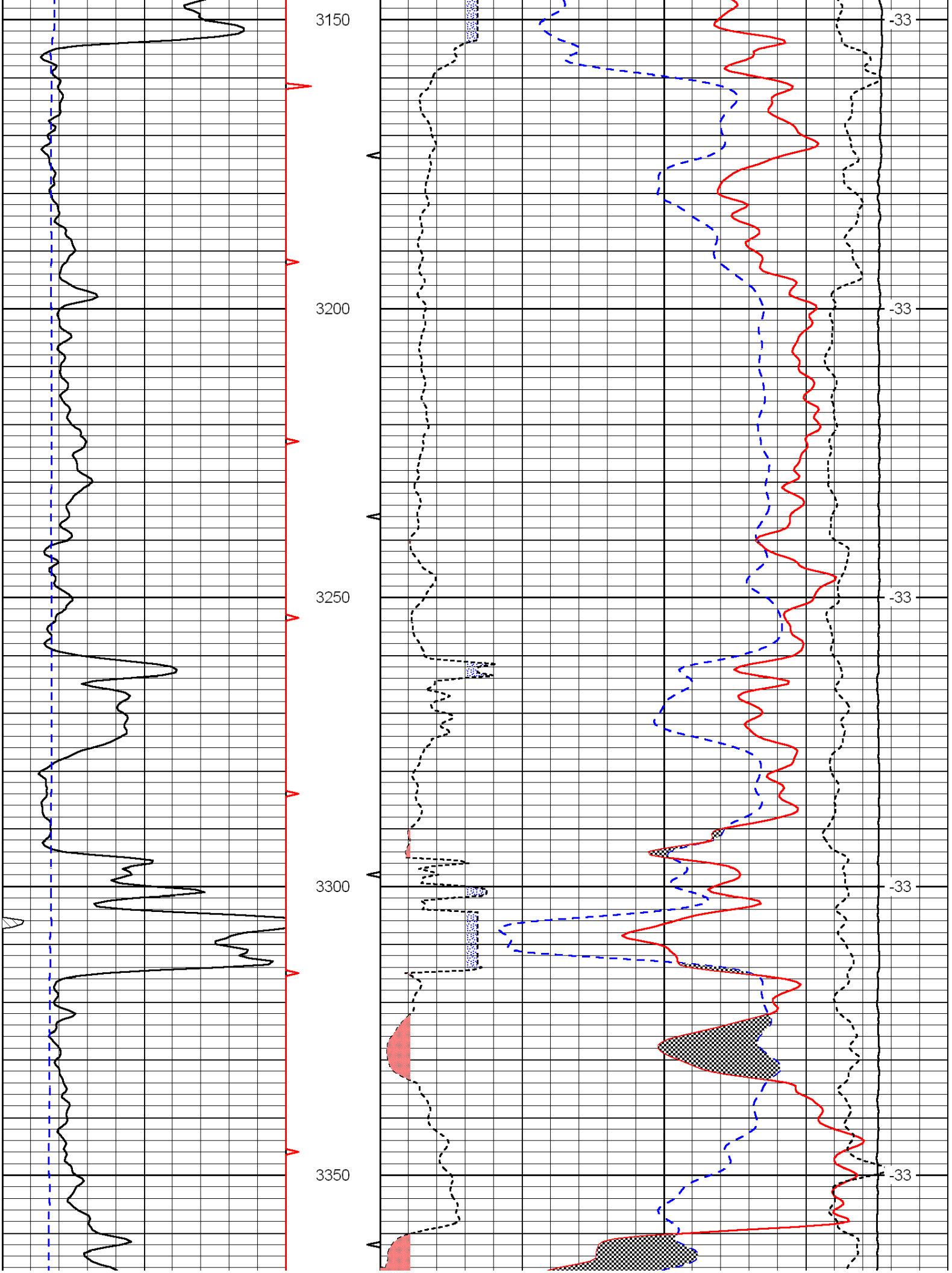
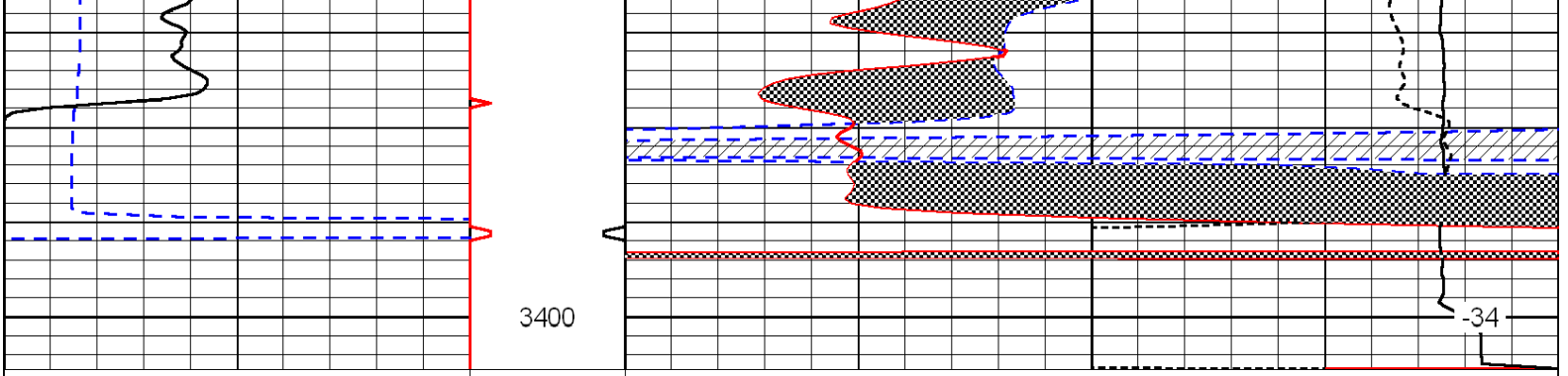
3000
3050
3100
-34
-34
-34
-34


3150
3200
3250
3300
3350
-33
-33
-33
-33
-33



0	Gamma Ray	150	30	Compensated Neutron (Limestone)	-10
6	Caliper (GAPI)	16	30	Compensated Density (Limestone)	-10
			2.625 DGA 3.425	-0.25 Correction	0.25
			15000	Line Tension	0
					LSPD

LOG-TECH

DIGITAL LOG (785) 625-3858

API No. 15-149-20065-00-00

Microresistivity Log

Company Daystar Petroleum, Inc.

Well Pfrang #1-19

Field Wildcat

County Pottawatomie State Kansas

Location NW SW SW SW
340' FSL / 280' FWL
Sec: 19 Twp: 7S Rge: 12E

Other Services
CNL / CDL
DIL / BHCS

Elevation
K.B. 1304
D.F.
G.L. 1294

Permanent Datum Ground Level Elevation 1294
Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum
Drilling Measured From Kelly Bushing

Date	11/13/2011			
Run Number	Two			
Depth Driller	3368			
Depth Logger	3398			
Bottom Logged Interval	3397			
Top Log Interval	2200			
Casing Driller	8.625 @ 335			
Casing Logger	334			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	400			
Density / Viscosity	9.6 53			
pH / Fluid Loss	9.5 6.8			
Source of Sample	Flowline			
Rm @ Meas. Temp	1.60 @ 65			
Rmf @ Meas. Temp	1.20 @ 65			
Rmc @ Meas. Temp	2.16 @ 65			
Source of Rmf / Rmc	Charts			
Rm @ BHT	0.95 @ 110			
Operating Rig Time	4 Hours			
Max Rec. Temp. F	110			
Equipment Number	15			
Location	Hays			
Recorded By	R. Barnhart			
Witnessed By	Ken LeBlonc			

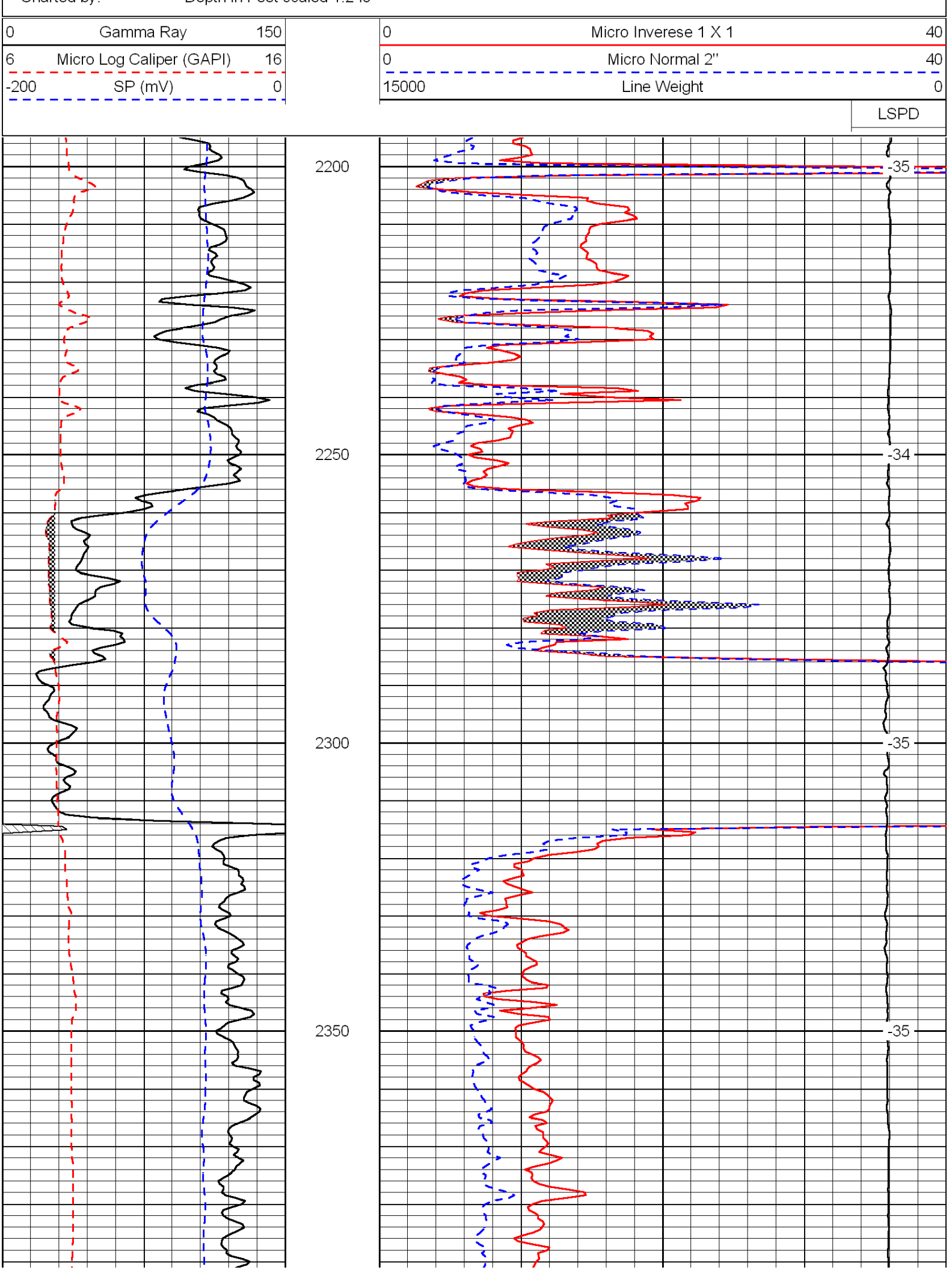
<<< Fold Here >>>

Comments

Thank you for using Log-Tech, Inc.
(785) 625-3858

St. Mary, KS:
18N, 2W, 1S, W into

Database File:	c:\warrior\data\daystar_pfrang #1-19\daystarhd.db
Dataset Pathname:	dil/daymain
Presentation Format:	micro
Dataset Creation:	Sun Nov 13 10:27:58 2011
Charted by:	Depth in Feet scaled 1:240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-200 SP (mV) 0
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2300
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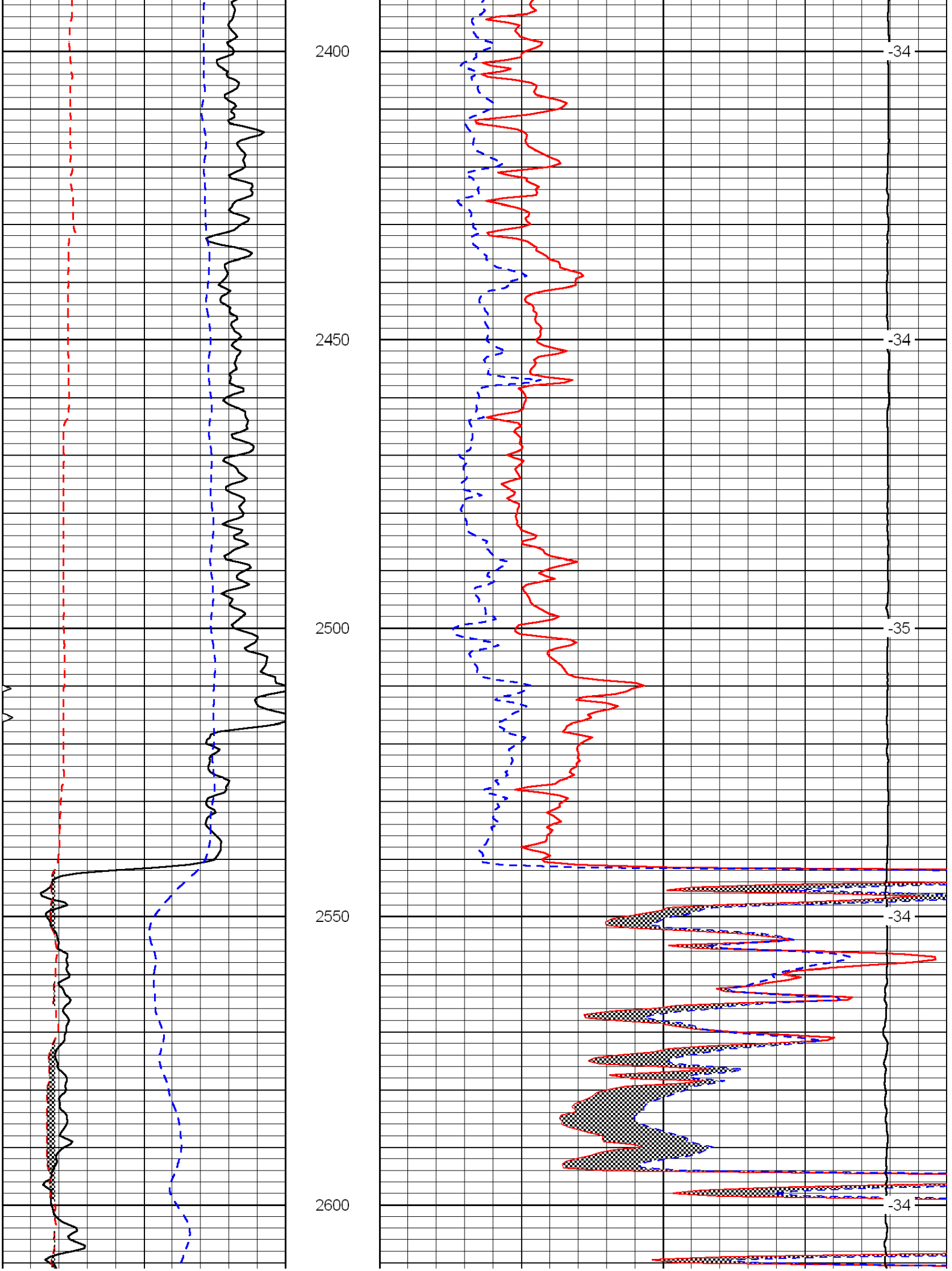
-35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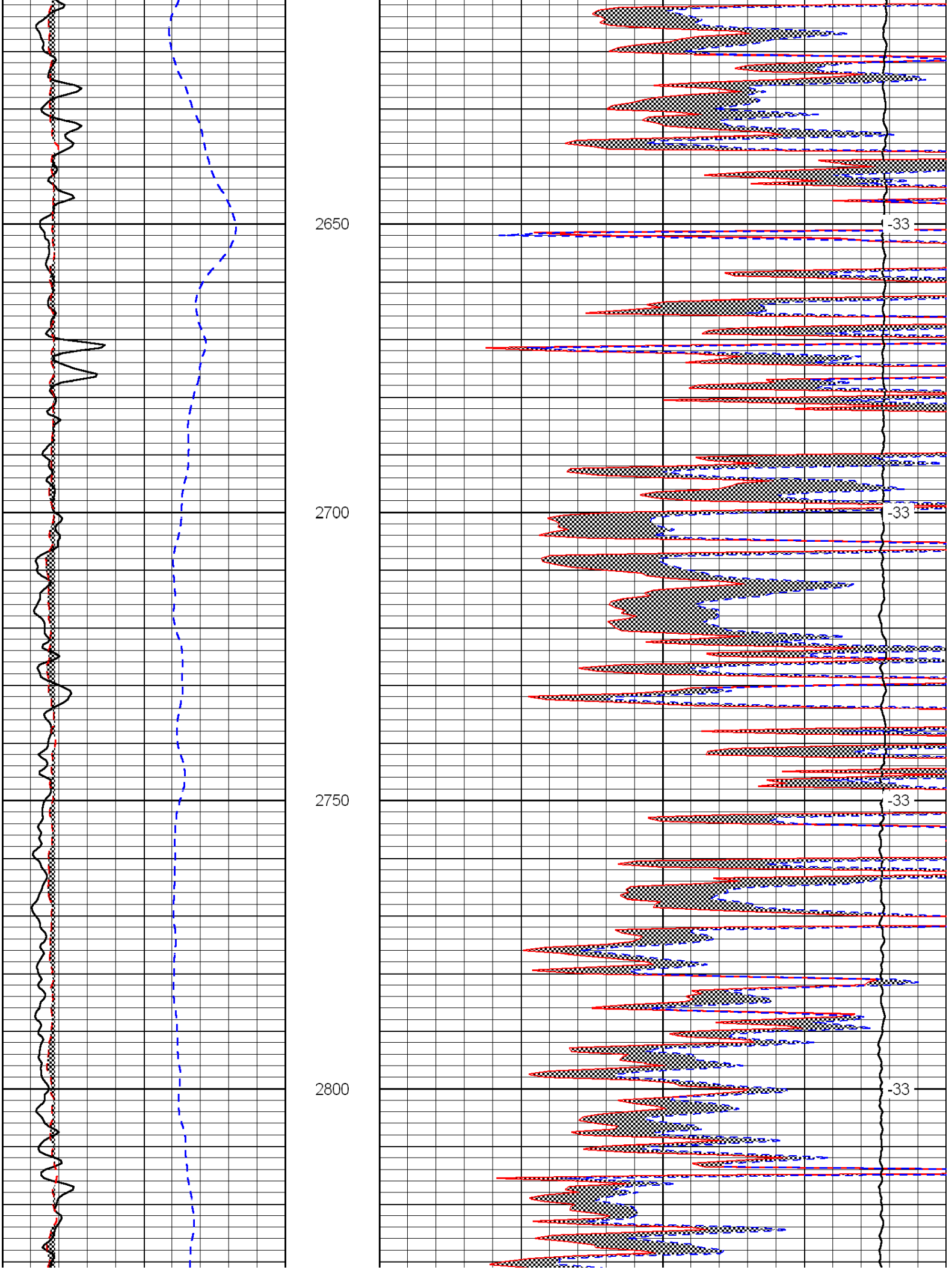
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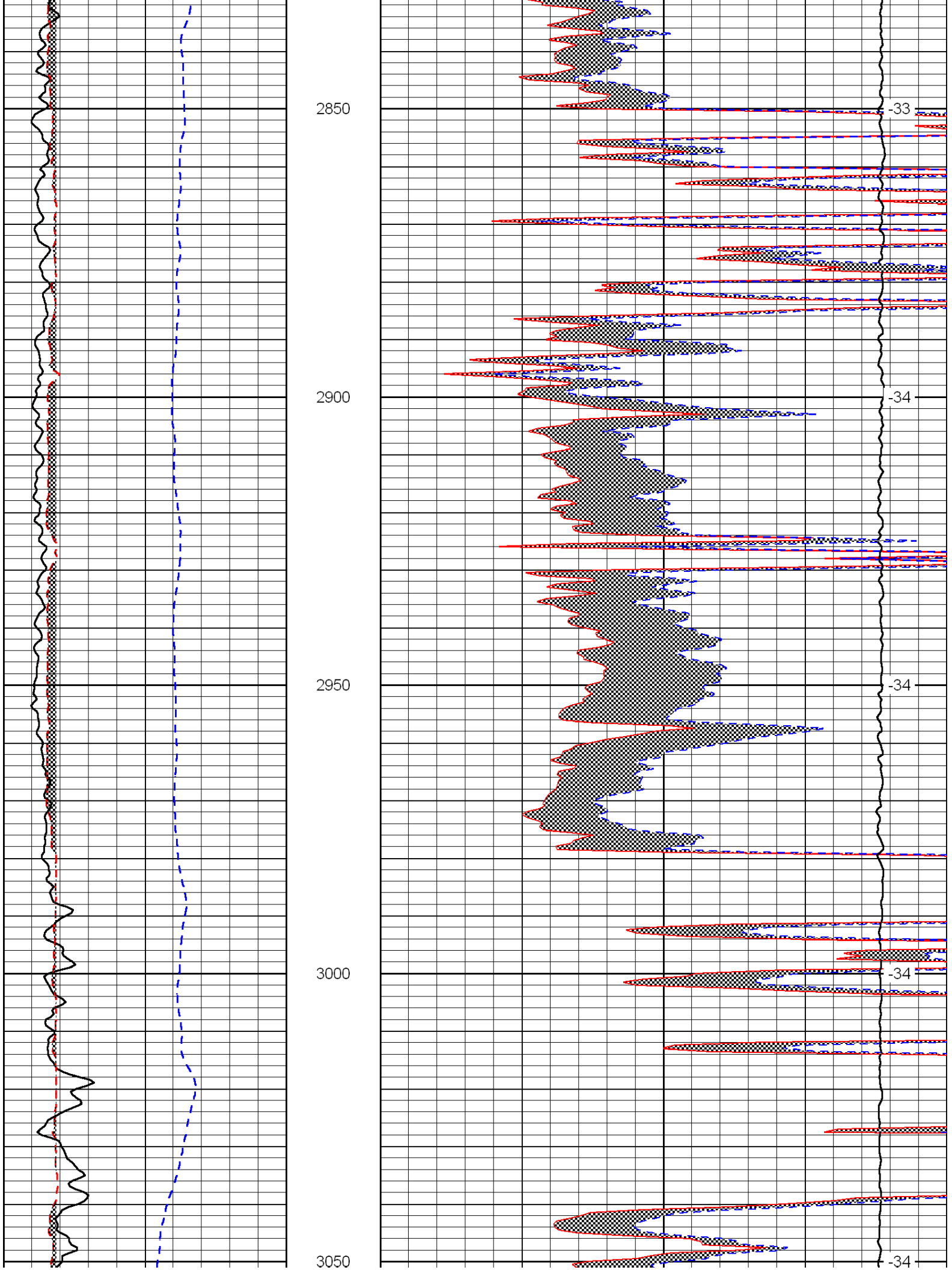
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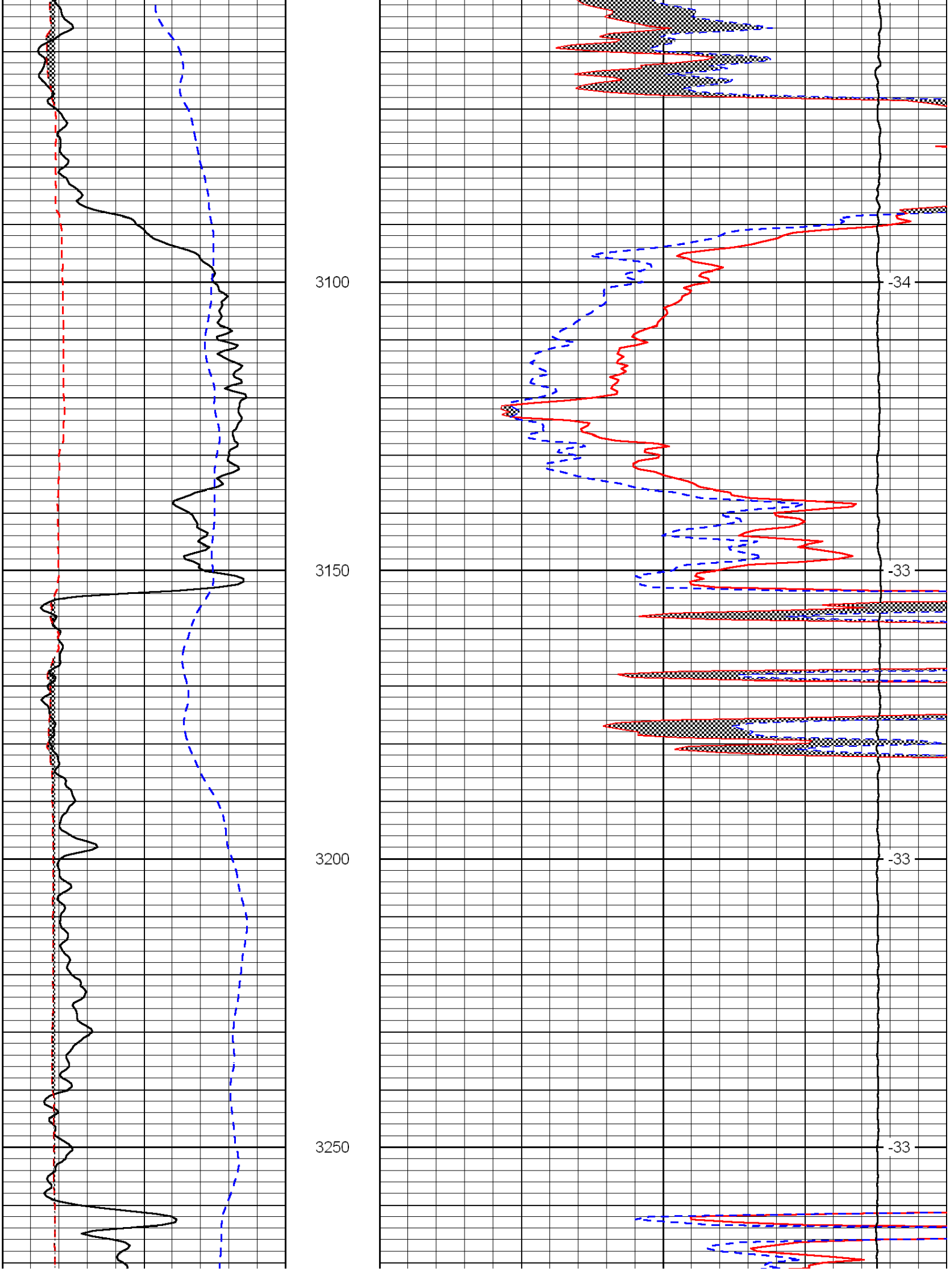
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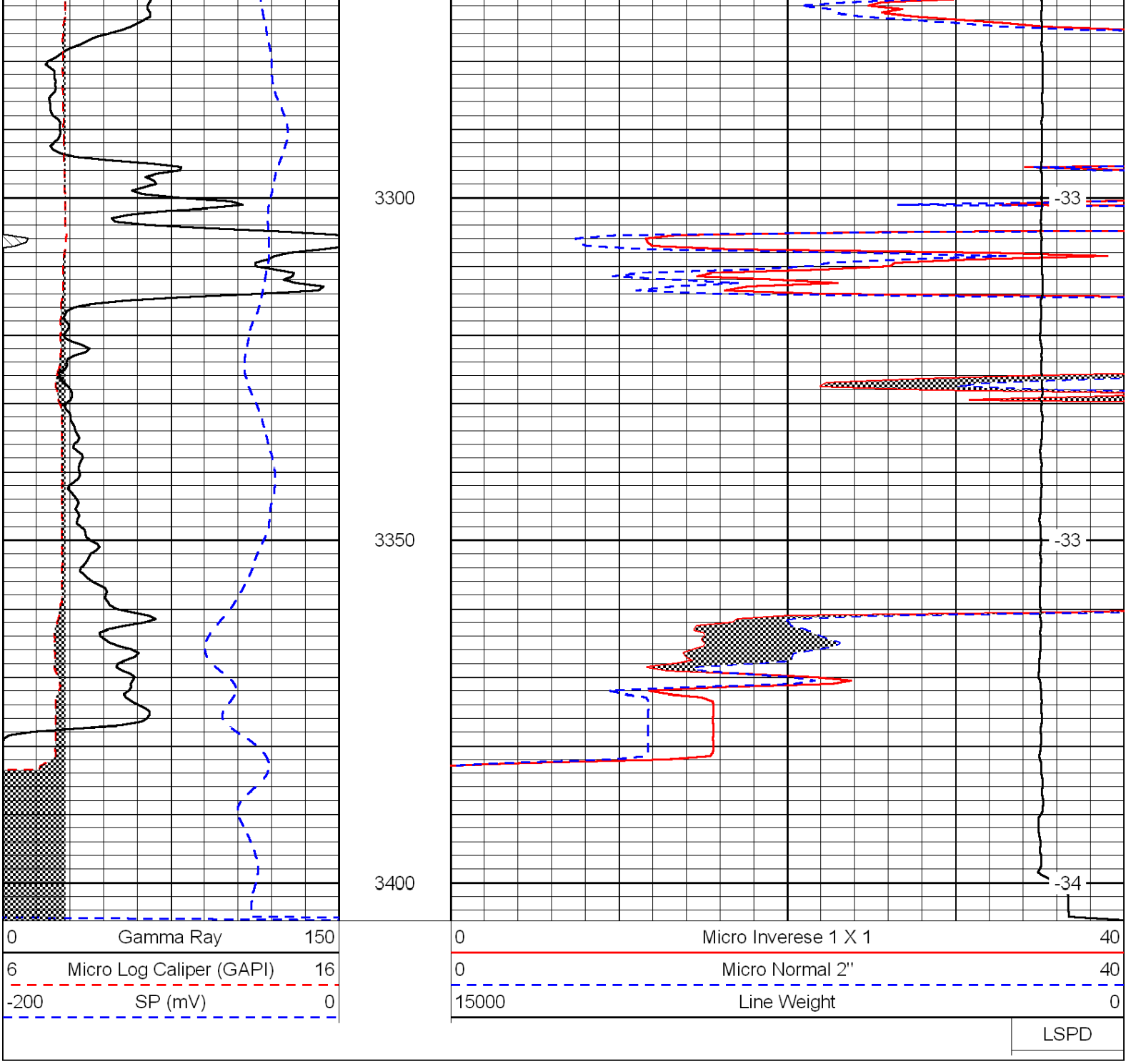
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-33
-34
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6
Micro Log Caliper (GAPI)
16
-200
SP (mV)
0
0
Micro Inverese 1 X 1
40
0
Micro Normal 2"
40
15000
Line Weight
0
LSPD

LOG-TECH

DIGITAL LOG (785) 625-3858

Borehole Compensated Sonic Log

API No. 15-149-20065-00-00

Company Daystar Petroleum, Inc.

Well Pfrang #1-19

Field Wildcat

County Pottawatomie State Kansas

Location NW SW SW 340' FSL / 280' FWL

Sec: 19 Twp: 7S Rge: 12E

Permanent Datum Ground Level Elevation 1294

Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum

Drilling Measured From Kelly Bushing

Other Services
CNL / CDL
MEL / DIL

Elevation
K.B. 1304
D.F.
G.L. 1294

Date	11/13/2011
Run Number	Two
Type Log	BHC Sonic
Depth Driller	3368
Depth Logger	3398
Bottom Logged Interval	3387
Top Logged Interval	300
Type Fluid In Hole	Chemical
Salinity, PPM CL	400
Density	9.6
Level	Full
Max. Rec. Temp. F	110
Operating Rig Time	4 Hours
Equipment -- Location	15 Hays
Recorded By	R. Barnhart
Witnessed By	Ken LeBlonc

Borehole Record

Run No.	Bit	From	To
1	12.25	00	335
2	7.875	335	3368

Casing Record

Size	Wgt.	From	To
8.625	24#	00	335

<<< Fold Here >>>

Comments

Thank you for using Log-Tech, Inc.
(785) 625-3858

St. Mary, KS:
18N, 2W, 1S, W into

Database File:	c:\warrior\data\daystar_pfrang #1-19\daystarhd.db
Dataset Pathname:	dil/daymain
Presentation Format:	sonic
Dataset Creation:	Sun Nov 13 10:27:58 2011
Charted by:	Depth in Feet scaled 1:240

Charted by: Depth in Feet scaled 1:240

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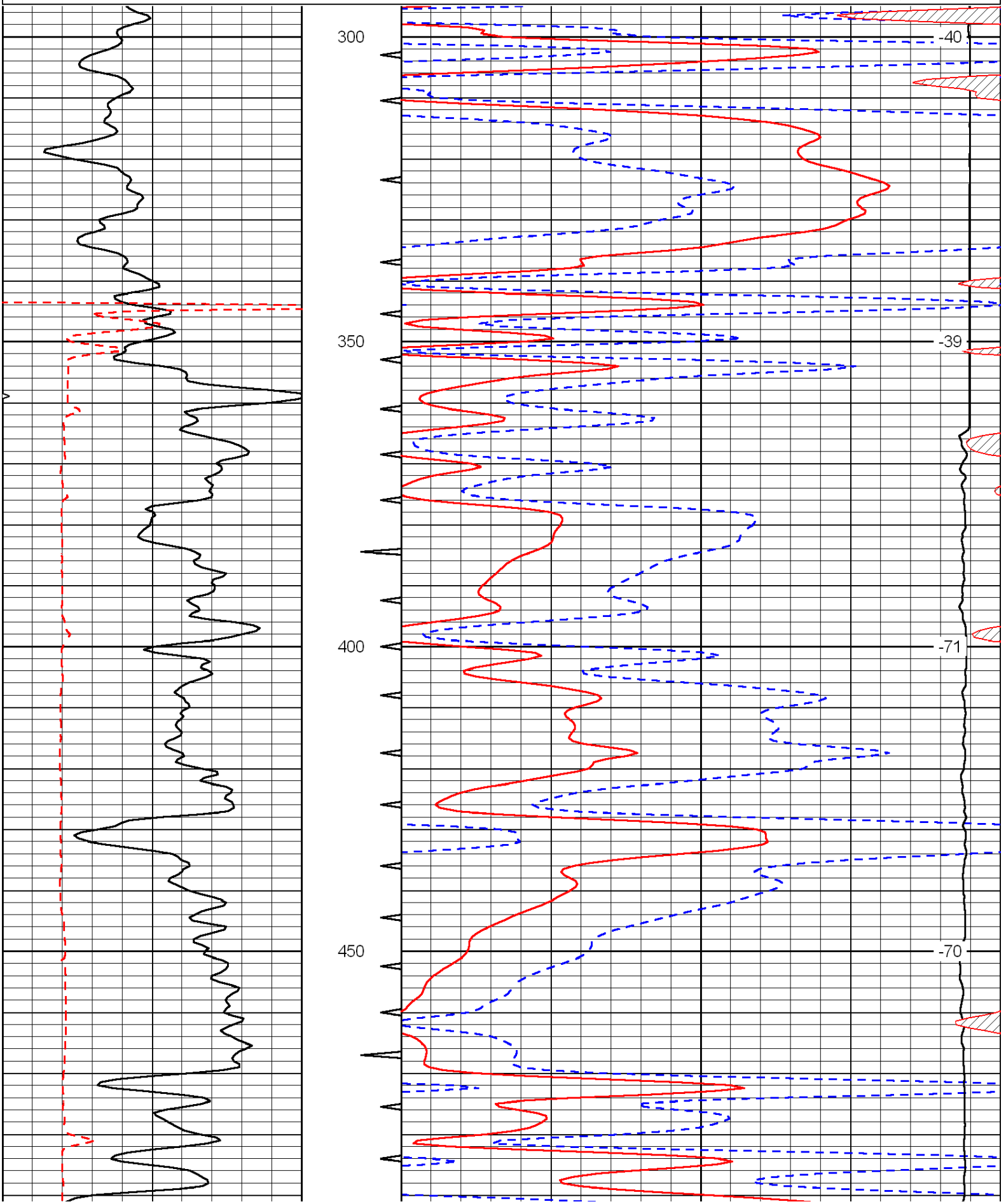
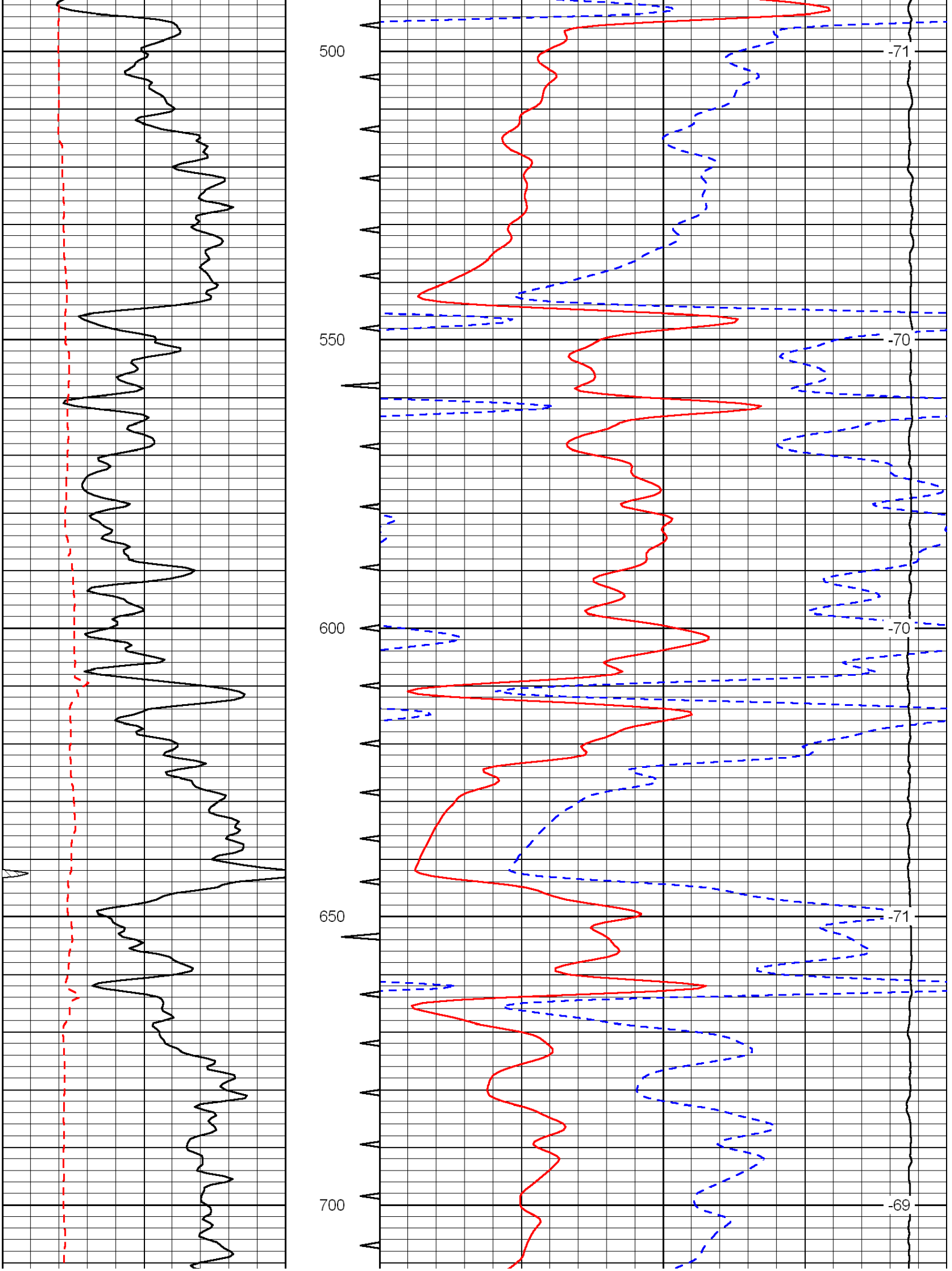
							LSPD

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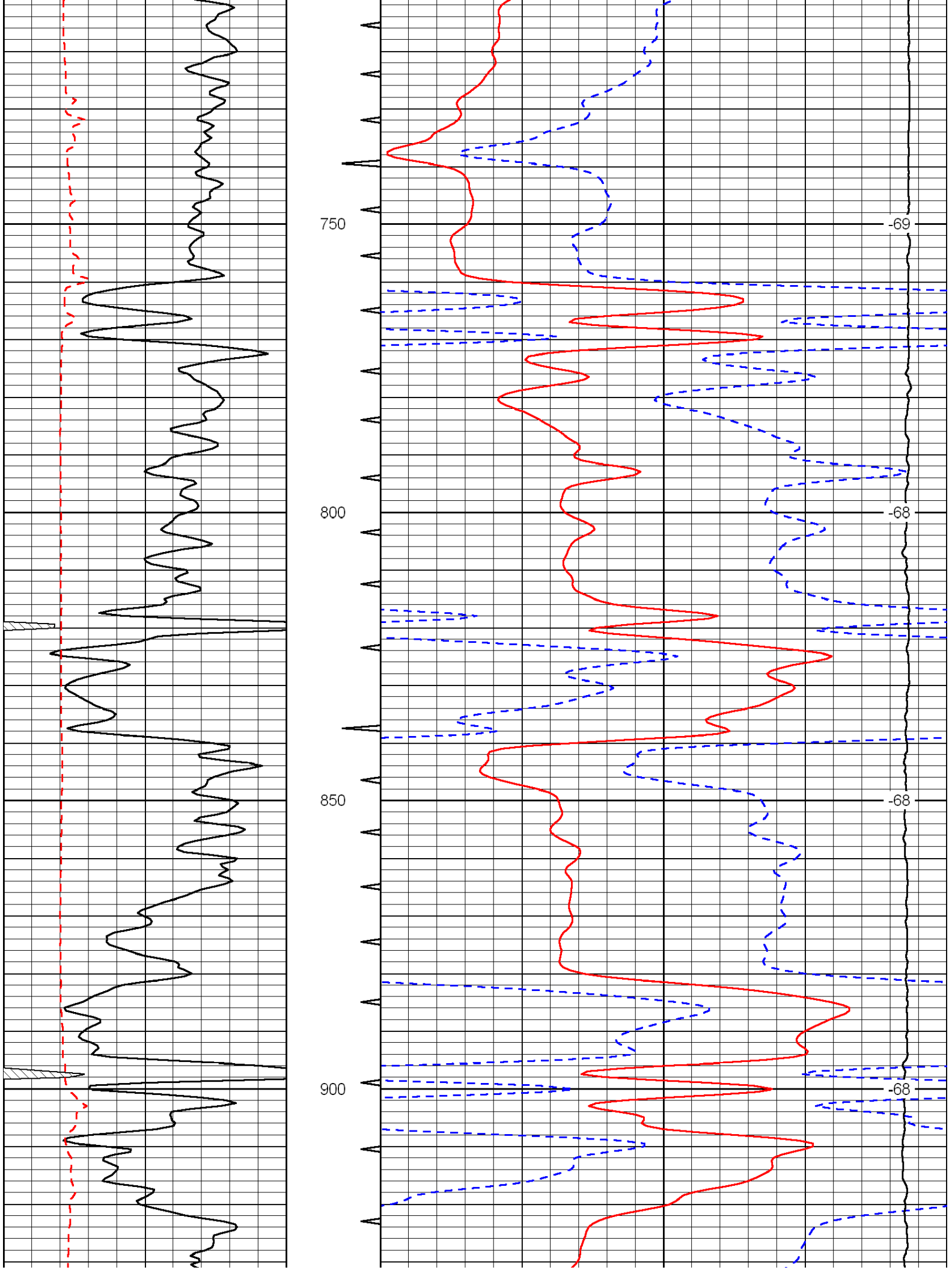
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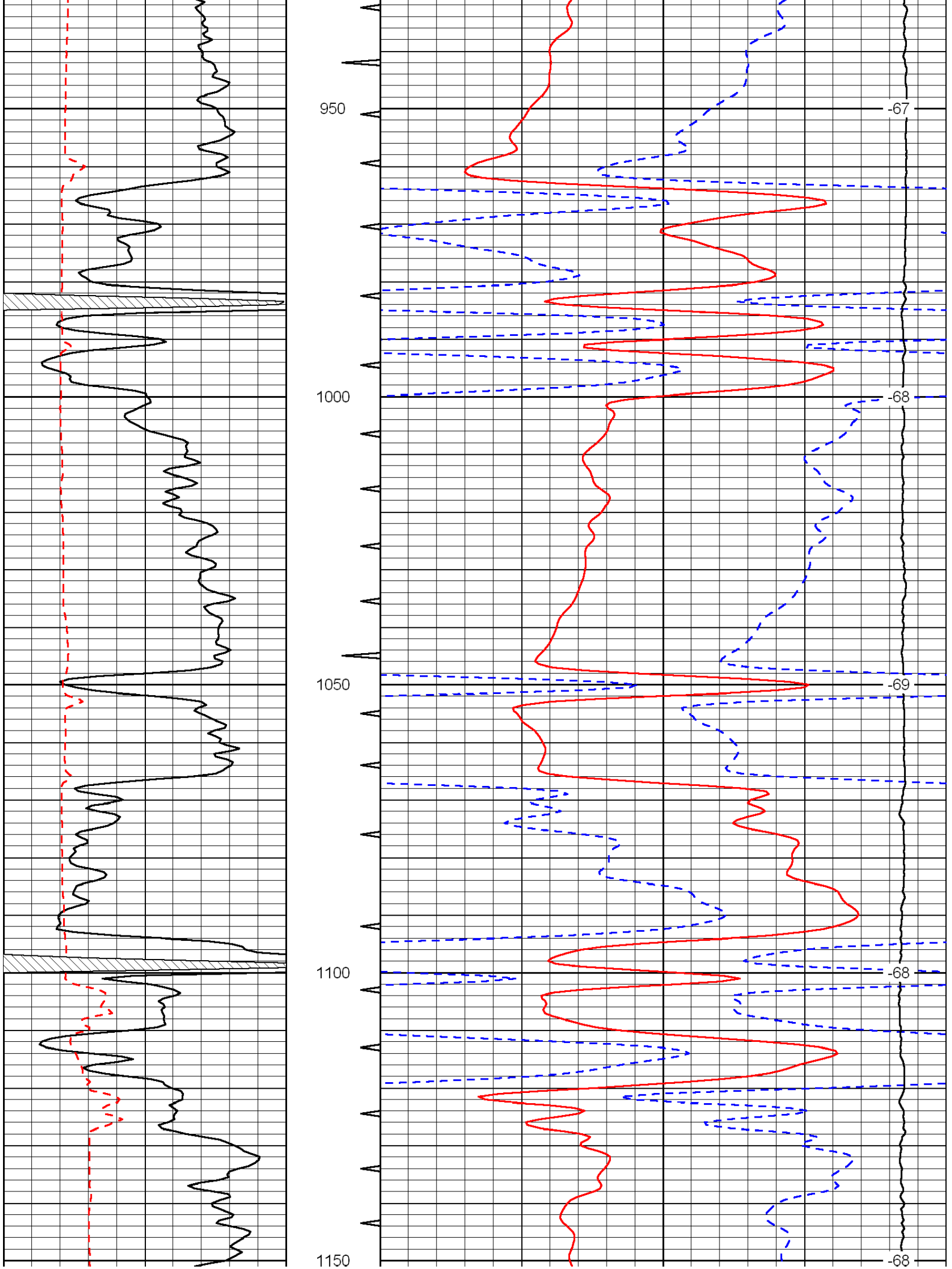
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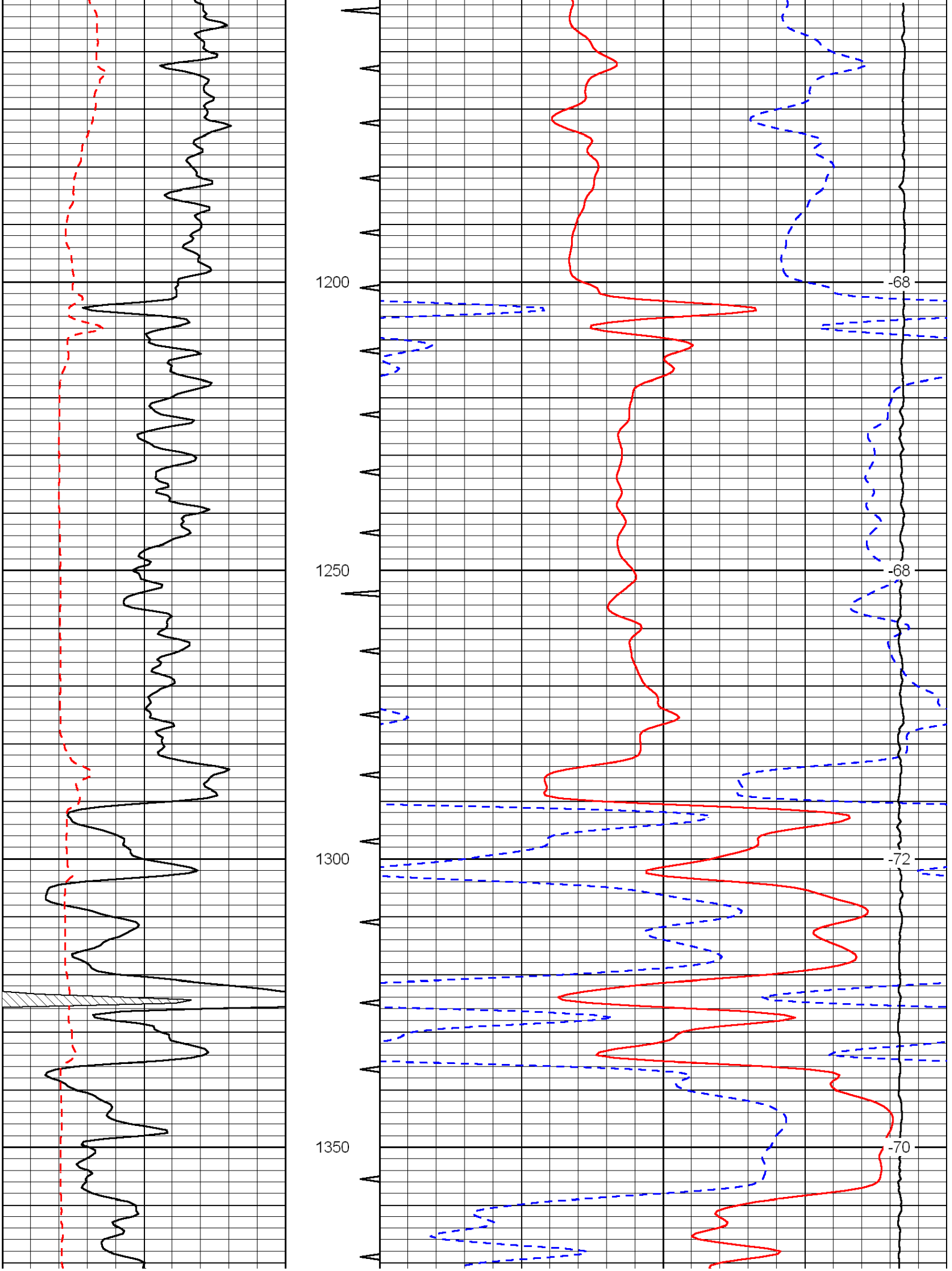
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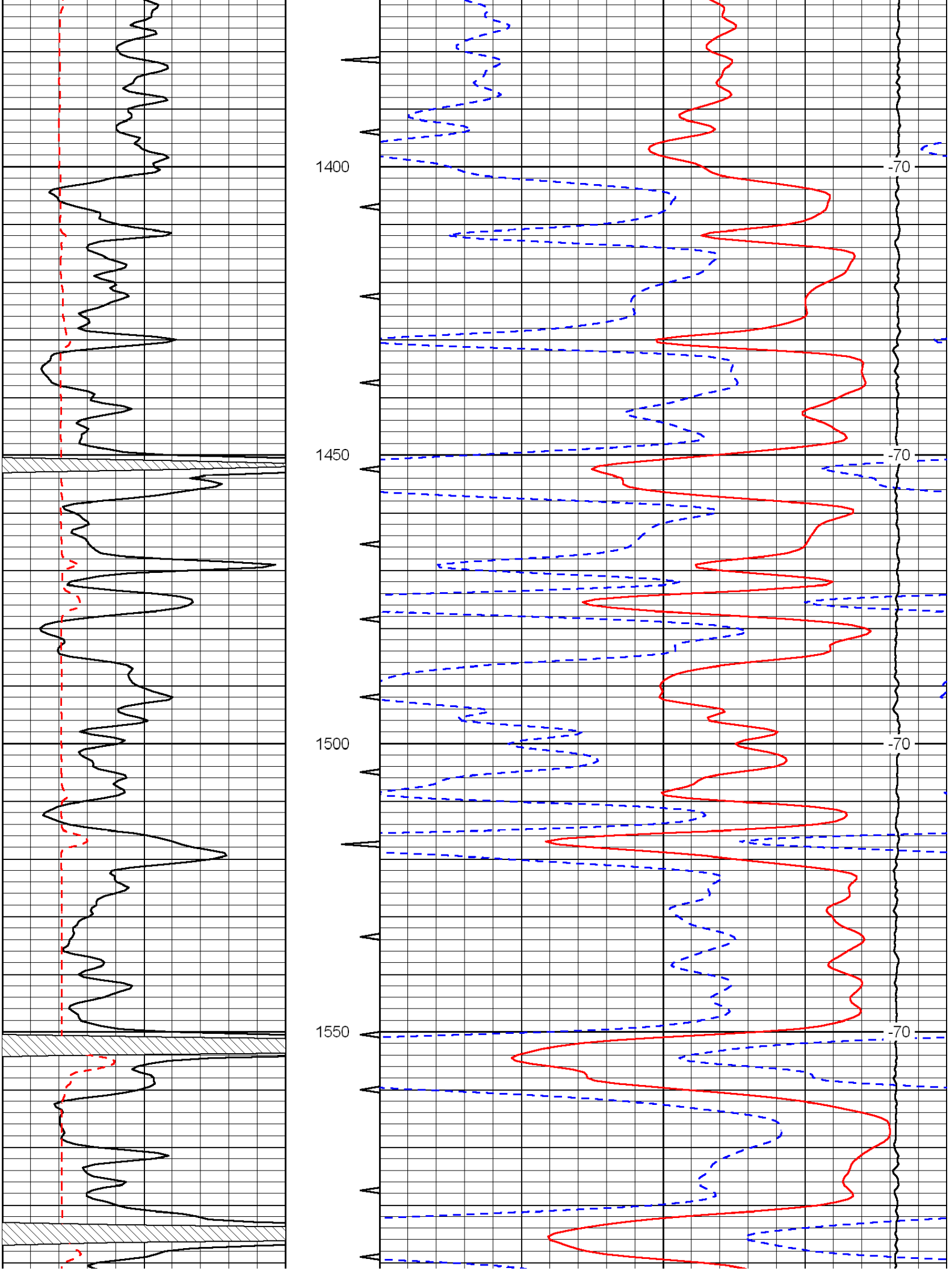
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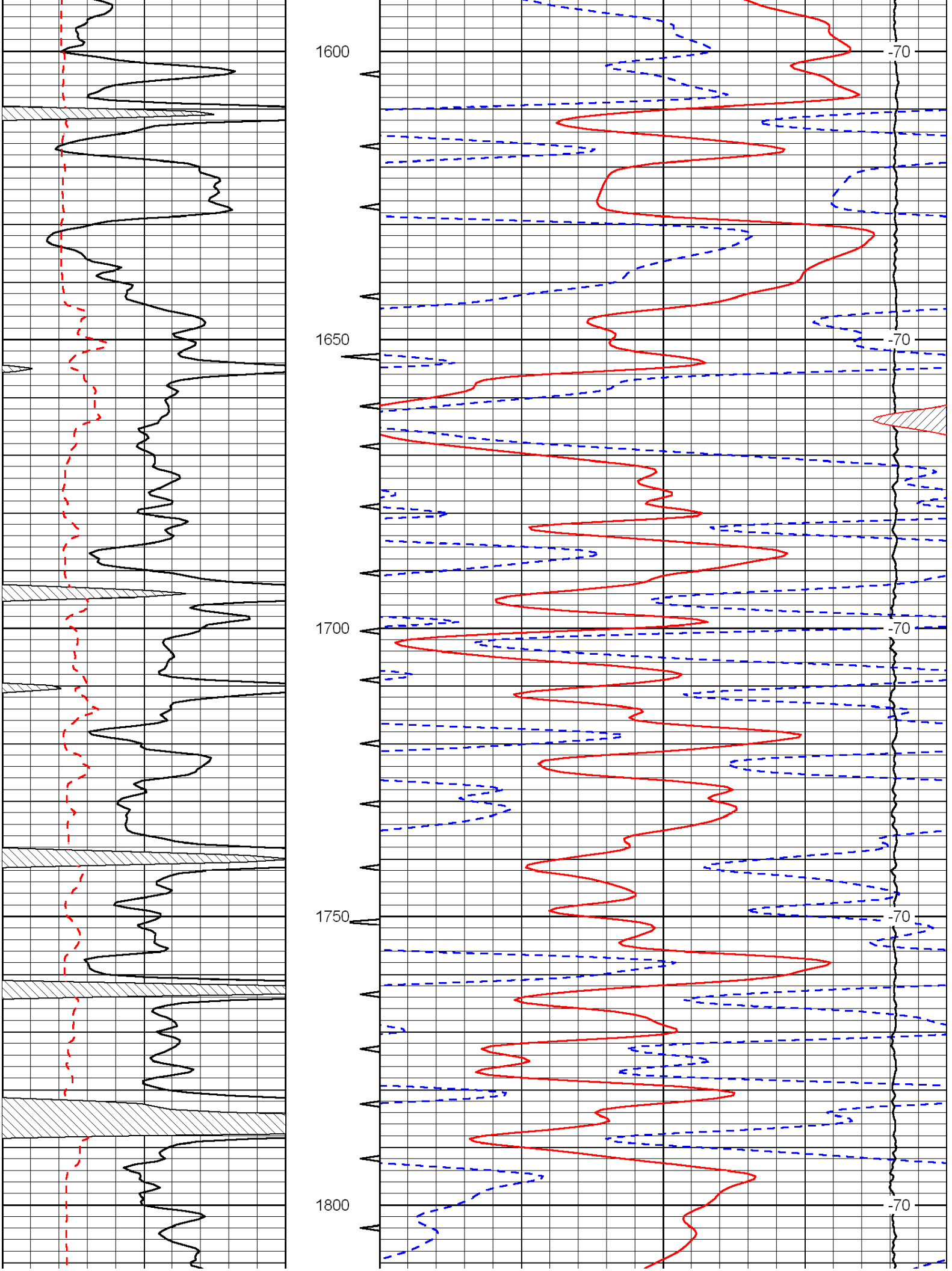
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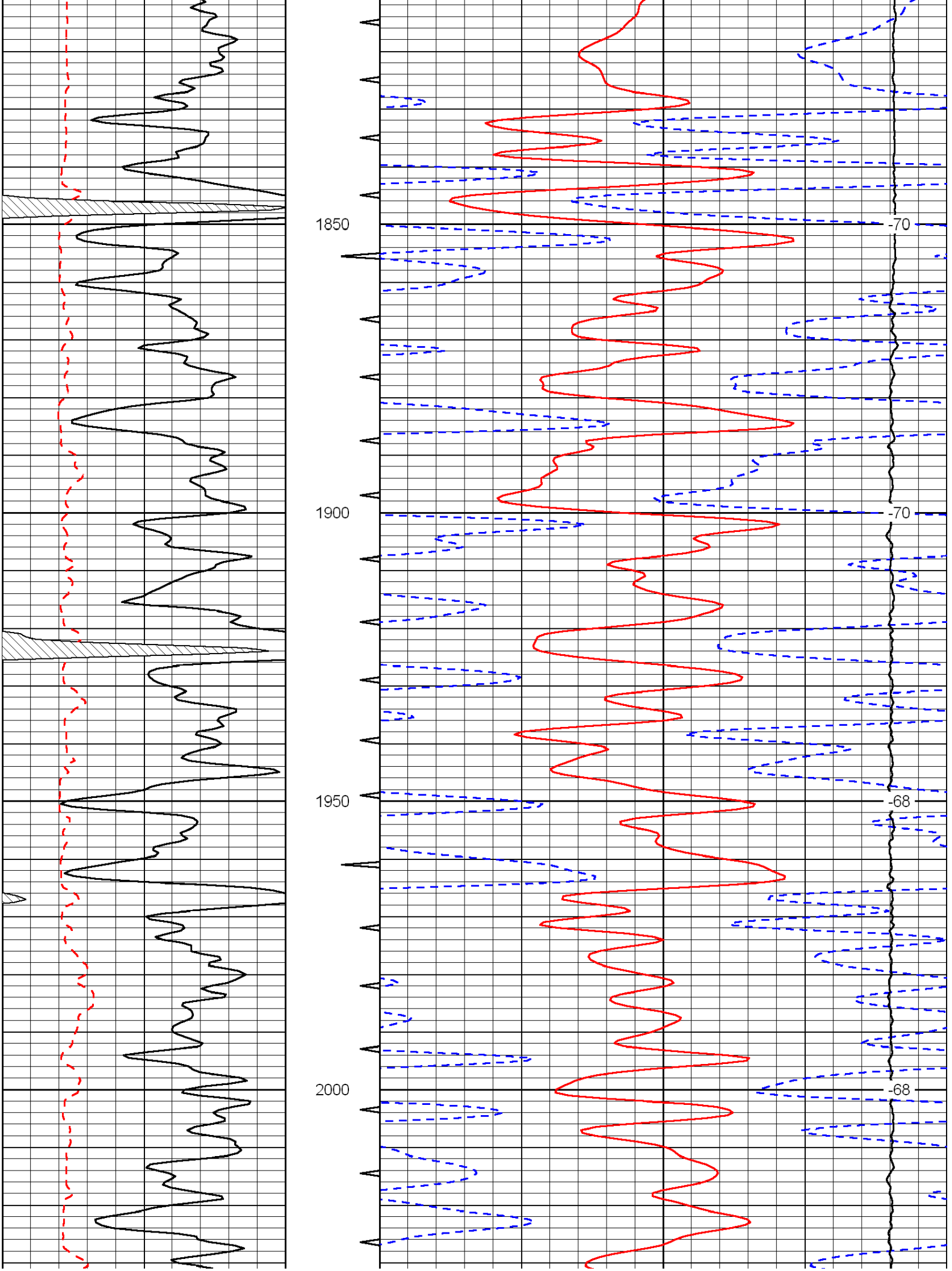
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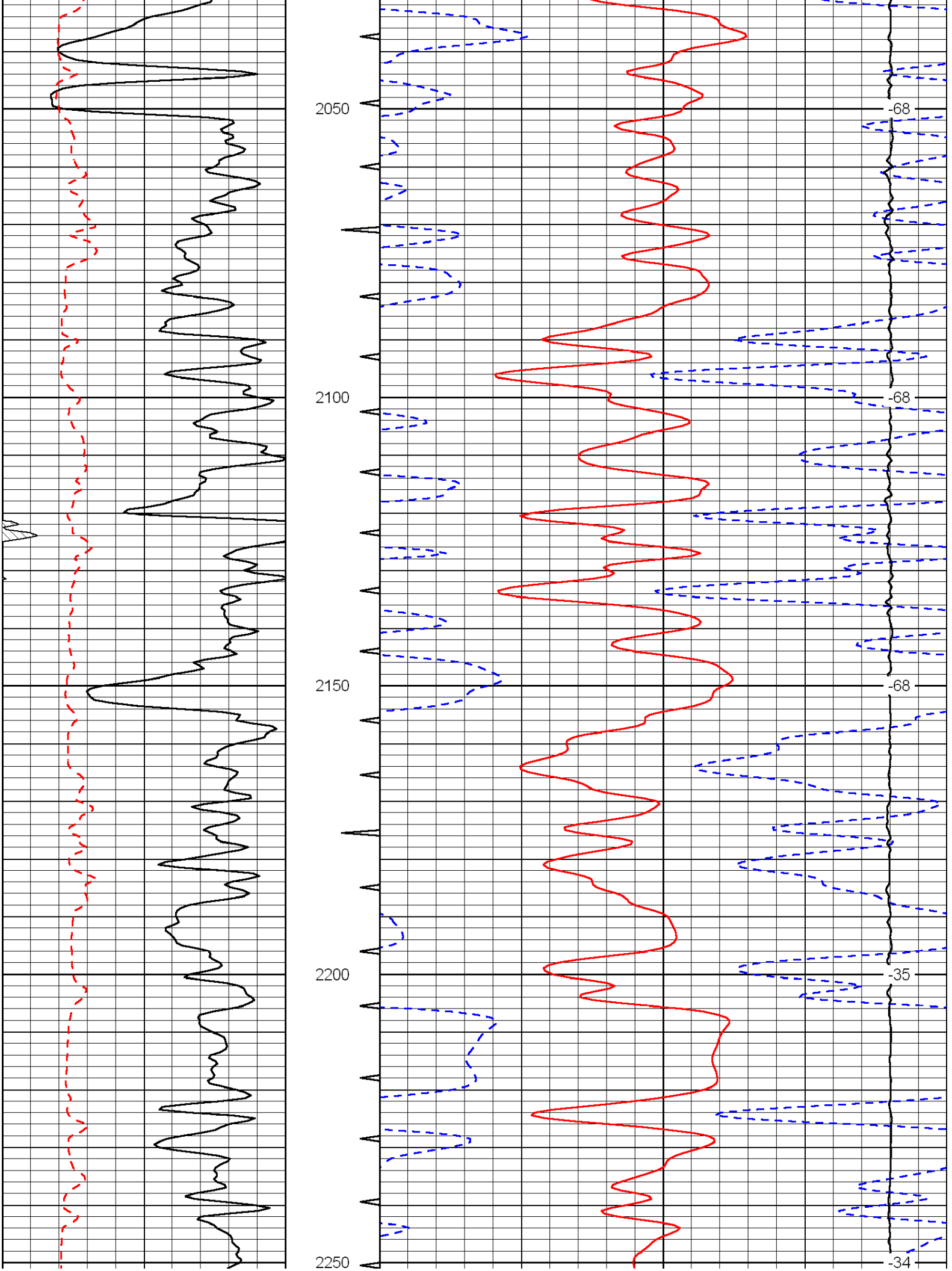
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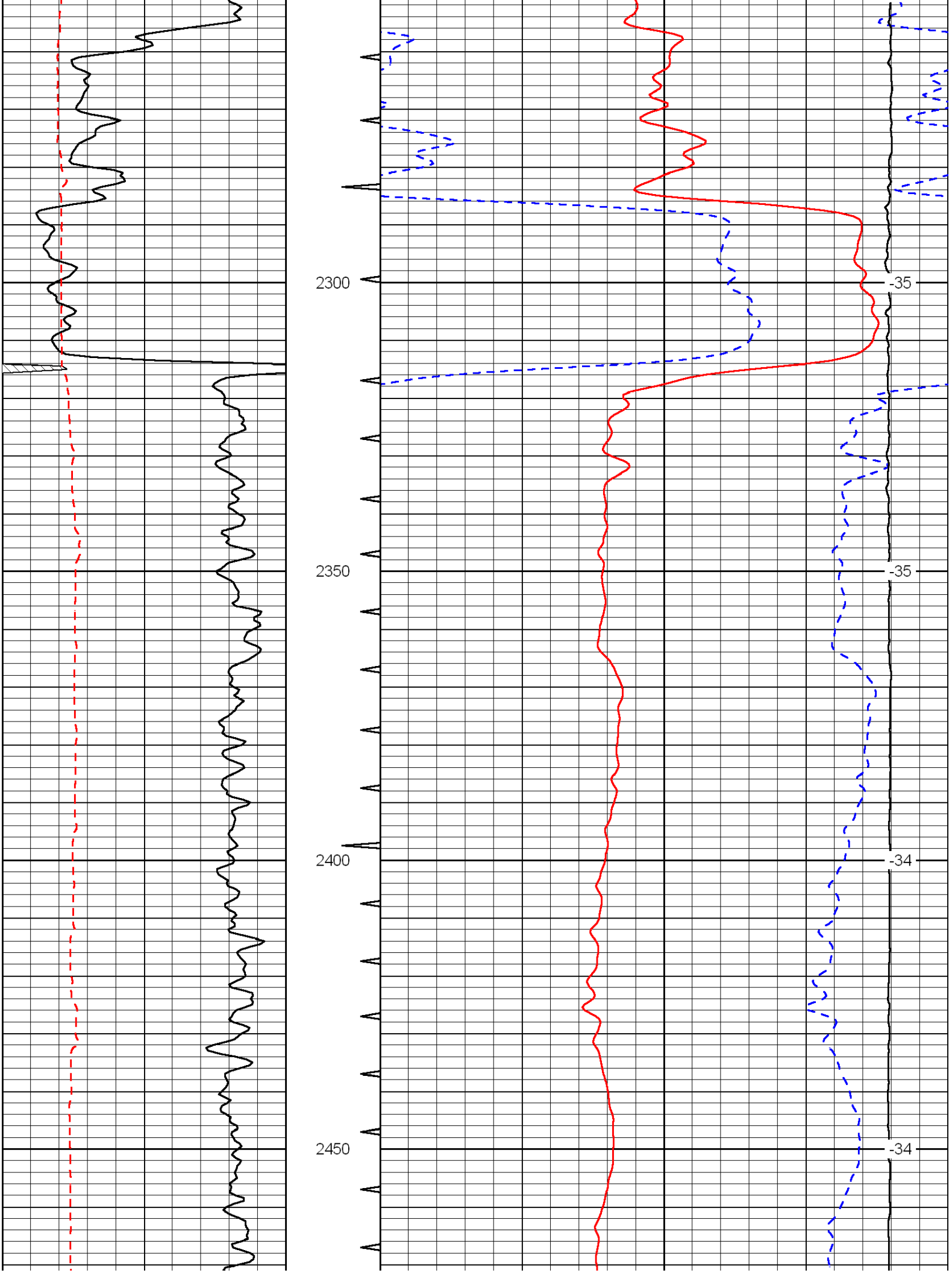
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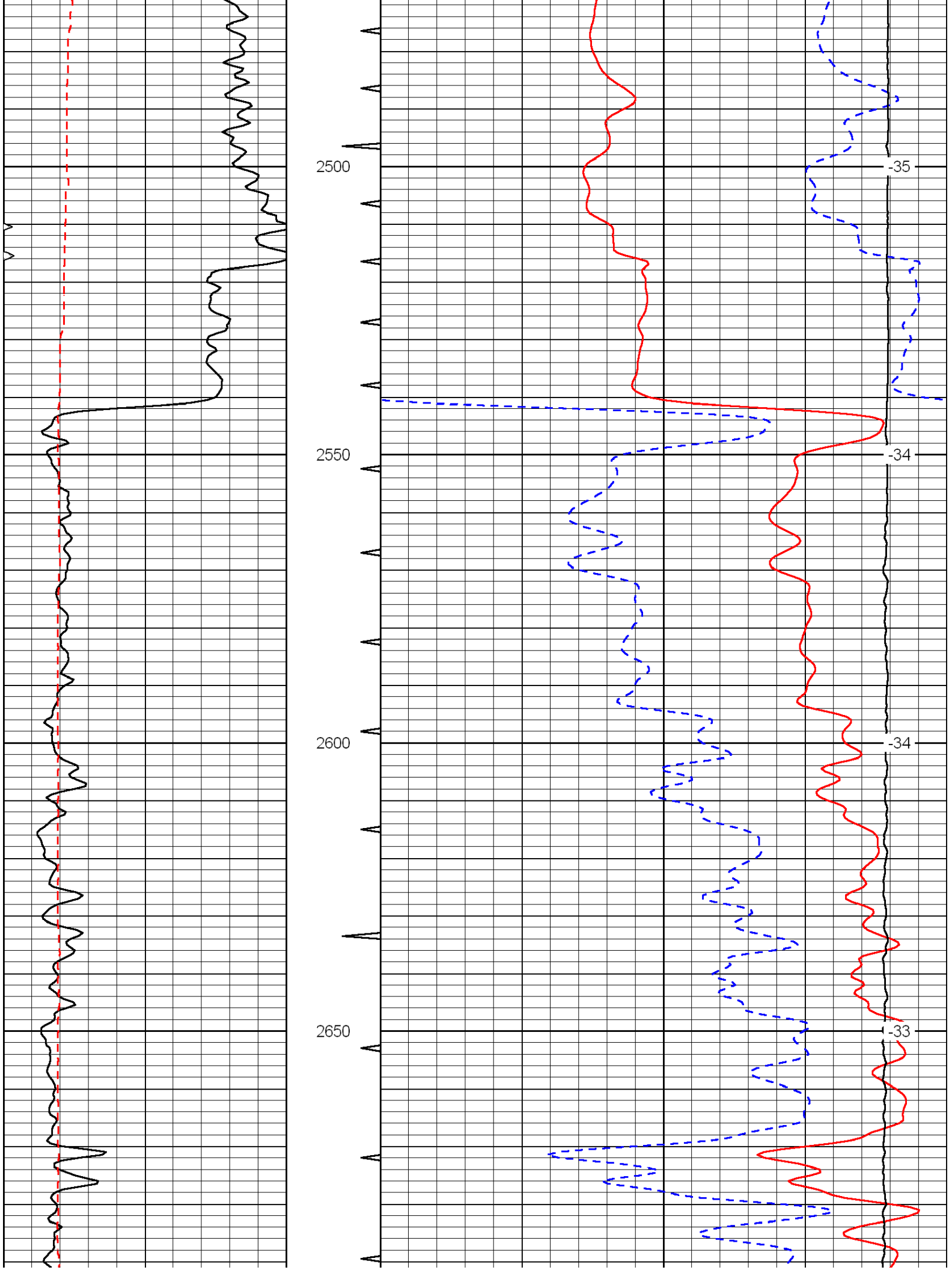
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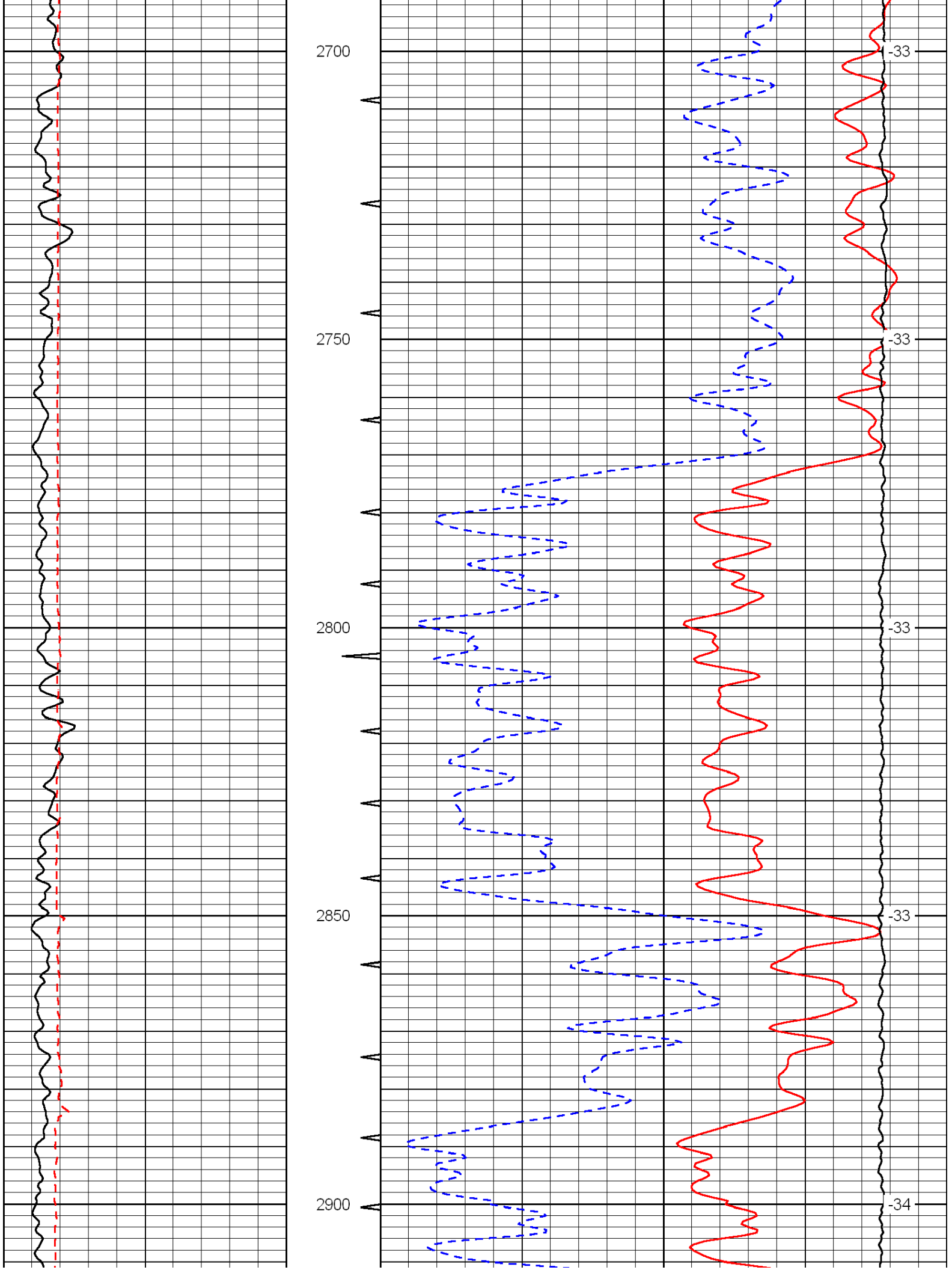
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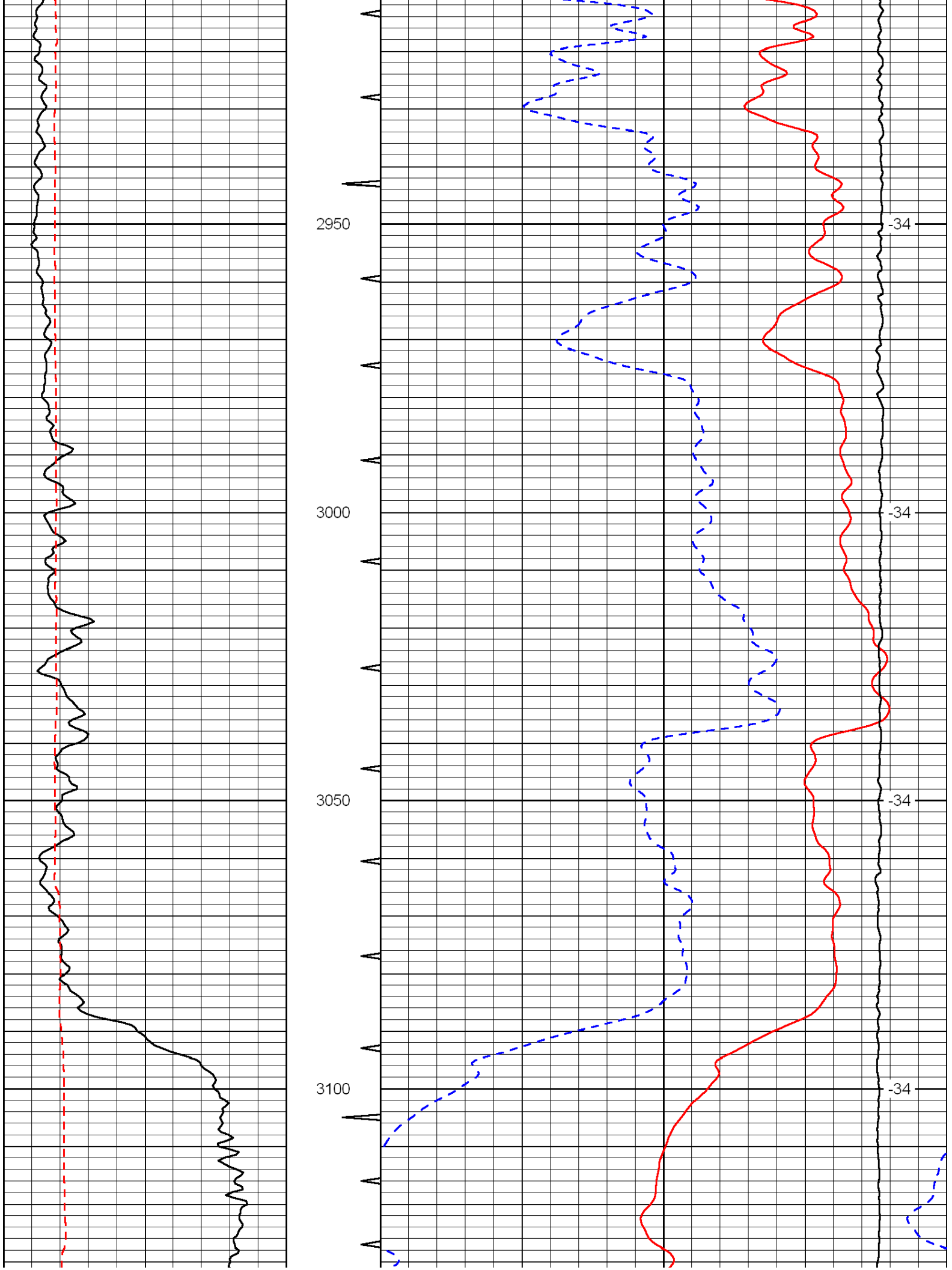
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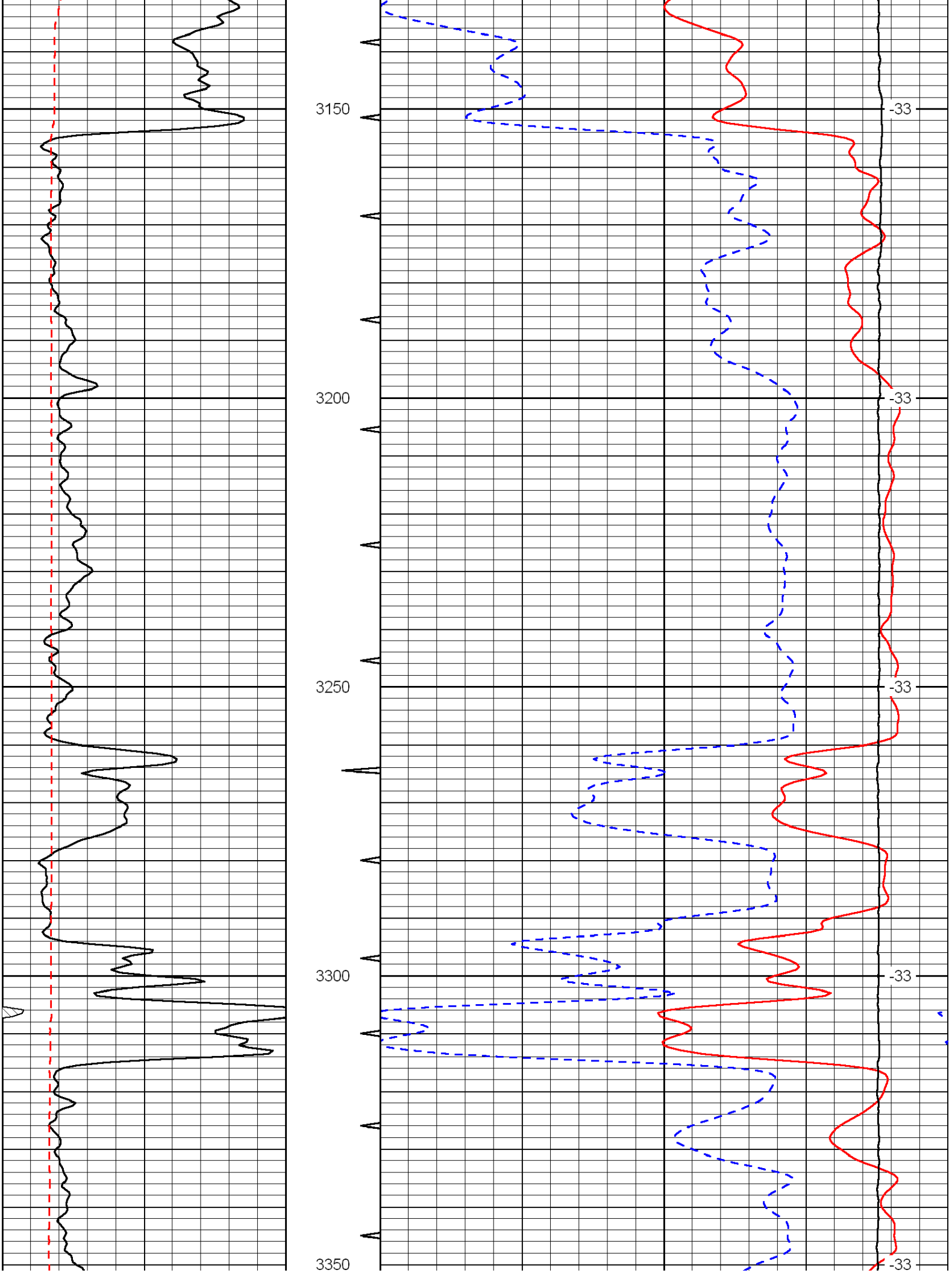
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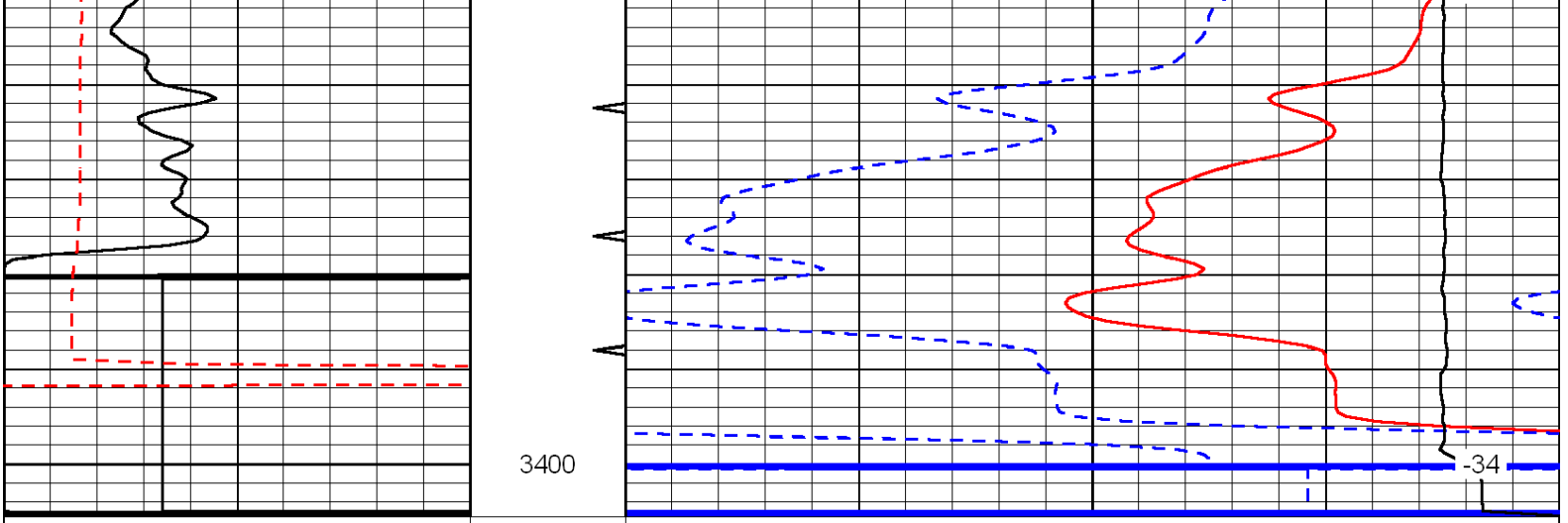


0	Gamma Ray	150	Sonic Int	140	Delta Time (usec/ft)	40
150	Gamma Ray	300	5 0	30	SPOR	-10
6	Caliper (GAPI)	16		15000	LTEN (lb)	0
						LSPD

Daystar Petroleum, Inc.
Pfrang 1-19
340 FSL & 280 FWL
Sec. 19-T7S-R12E
Pottawatomie County, Kansas

November 6, 2011

The following descriptions were made independent of drilling time and represent an interpretation of each sample saved during the course of the above referenced well.

1002-1032 shales 85%, dk green, lt green, gry-green, some silty and sandy, ls 15%, dk brn to yellow tan fn-med oolitic
1032-1064 shales gry, soft, micac. and included with organics, ls 40%, dk brn fn xln dn, occ. cream ls clasts
1064-1095 ls dk gry and brn fn xln dn, lesser ls cream-white fn xln, highly fossil
1095-1125 ls cream and tan fn xln dn, some fn oolitic, shales 10%, dk gry, gry and blk 1-2%
1125-1157 ls cream fn xln dn, equal ls tan fn and med oolitic and suboolitic, shales 30%, gry, dk gry, micac. in part
1157-1189 shales gry, gry-green, dk gry, lesser gry, micac. and included with organics, ls 30%, cream and tan fn xln dn
1189-1220 ls white and cream fn xln dn, small amts of ls tan fn and med oolitic, shales 30%, gry-green, green, dk gry, lesser gry, micac. and included
1120-1251 siltstone to sst lt gry and gry vfn grain, angular, friable, some slightly micac. and included with organics, ls 10%, tan and cream fn and med xln to suboolitic, shales 20%, gry, dk gry, brittle, some blk
1251-1283 siltstone to sst 90%, lt gry and gry vfn grain, angular, friable, some slightly micac. and included with organics, ls 5%, tan and cream fn and med xln to suboolitic, shales 5%, gry, dk gry, brittle, some blk
1283-1315 ls white and lt gry fn xln dn, some suboolitic, equal ls tan-brn fn xln dn, shales 25%, dk gry, gry, blk, some micac.
1315-1346 ls white and lt gry fn xln dn, some suboolitic, equal ls tan-brn fn xln dn, shales 25%, dk gry, gry, blk, some micac.
1346-1376 ls dk brn fn xln dn, smooth, lesser ls white fn xln-some suboolitic, shales 15%, dk gry, gry
1376-1407 ls dk brn fn xln dn, smooth, lesser ls white fn xln-some suboolitic, shales 15%, dk gry, gry
1407-1438 ls tan and cream fn and some med xln, some suboolitic, broken oolitic ls thru-out, shales 5%, gry
1438-1470 ls white and lt gry fn xln dn, some chalky, shales 10%, blk
1470-1502 ls white and lt gry fn xln dn, some chalky, shales 25%, blk, lesser dk gry
1502-1533 ls white and cream fn xln dn, smooth, small amts of ls tan-gry med oolitic, ringed, no shows
1533-1564 ls white and tan fn xln dn, smooth to some chalky, shales 5%, blk, few gry
1564-1595 ls white and tan fn xln dn, smooth to some chalky, shales 5%, blk, few gry
1595-1626 ls white and tan fn xln dn, smooth to some chalky, shales 5%, blk, few gry
1626-1658 ls brn and dk brn fn and med xln, lesser fn-med oolitic, no shows, shales 30%, gry, dk gry, blk 10%
1658-1690 shales gry-green, maroon and dk green, mixed, blk 15%, ls 10%, tan-brn fn xln dn
1690-1727 shales gry-green, maroon and dk green, mixed, blk 15%, ls 10%, tan-brn fn xln dn

1727-1753 shales green, lt green, soft, equal gry-brn and maroon, ls 15%, white and tan fn xln dn
1753-1783 shales green, dk green, gry-green, soft, lesser maroon, reddish brn, scattered ls
1783-1814 shales green, dk green, gry-green, soft, lesser maroon, reddish brn, scattered ls
1814-1845 shales 80%, gry-green, dk gry, some mixed with gry maroon to reddish brn, qtz and sst 15%, fn-med thru coarse grain, clear, subangular to subrnd, loose grains thru-out, poorly sorted, no shows, scattered ls dk brn fn xln dn
1845-1877 shales 75%, gry-green, dk gry, some mixed with gry maroon to reddish brn, qtz and sst 25%, fn-med thru coarse grain, clear, subangular to subrnd, loose grains thru-out, poorly sorted, no shows, scattered ls dk brn fn xln dn
1877-1909 shales 60%, qtz 40%, clear fn thru med-coarse grain, round and subang., lesser sst clusters
1909-1939 shales 85%, maroon, dk green, to gry-green, reddish brn, some yellow and lightly pyritic, sst 15%, gry to white med grain, cherty, poorly sorted mixed with loose qtz clear fn-med and some coarse grain, round, no shows
1939-1970 qtz 80%, clear fn-med thru some coarse grain, round to sst clusters, fair sorted, very friable, shales 20%, dk green, gry-green, assoc. maroon and reddish brn
1970-2002 qtz 80%, clear fn-med thru some coarse grain, round to sst clusters, fair sorted, very friable, shales 20%, dk green, gry-green, assoc. maroon and reddish brn
2002-2032 qtz 80%, clear fn-med thru some coarse grain, round to sst clusters, fair sorted, very friable, shales 20%, dk green, gry-green, assoc. maroon and reddish brn
2032-2064 qtz 85%, clear and some milky, coarse and very coarse grain, subrnd and round, rare clusters, shales 15%, dk green, gry-green, lesser maroon
2064-2096 shales 70%, gry-green, dk gry, gry, maroon, dk green mixed to reddish brn and brick red, qtz 30%, clear, round, med and some coarse grain, rare clusters
2096-2127 shales 85%, gry-green, dk gry, gry, maroon, dk green mixed to reddish brn and brick red, qtz 15%, clear, round, med and some coarse grain, rare clusters
2127-2159 shales 70%, gry-green, dk gry, some maroon, blk 10%, assoc., brick red, ls 20%, white and cream fn xln dn, qtz 10%, clear, round, fn-med thru some coarse grained clusters
2159-2190 shales 50%, gry-green, dk gry, some maroon, blk 10%, assoc., brick red, ls 5%, white and cream fn xln dn, qtz 45%, clear, round, fn-med thru some coarse grained clusters
2190-2200 shales 70%, gry-green, dk green, blk 30%, ls 5%, tan and cream fn xln dn, some suboolitic, qtz 25%, clear, round, fn-med thru some coarse grain
2200-2220 shales 85%, gry-green, dk green, blk 30%, qtz 15%, clear, round, fn-med grain thru some coarse grain, sparse ls
2220-2240 shales 70%, gry, dk gry and blk 25%, some soft, and silty, some maroon to reddish brn, qtz 20%, clear, round, fn-med and med grain, scattered ls cream to tan fn xln to chalky
2240-2260 shales 60%, dk gry to blk, carb. chert 40%, snow white, opaque, fresh,

(Miss. Chert) some slightly weathered and suboolitic, occ. chert lt gry and yellow, fresh, subopaque

2260-2280 chert white to lt gry, opaque, fresh, some suboolitic, lesser chert cream to tan, fresh, subopaque, shales 10%, blk and dk gry

2280-2300 ls tan and brn fn xln dn, equal med suboolitic, assoc., chert 5%, white (Miss. Ls) to cream, fresh, opaque, scattered loose qtz and clusters

2300-2320 ls tan to brn vfn thru fn-med oolitic and suboolitic, occ. coarse clasts, shales 15%, dk gry, gry-green, green, blk 2-3%

2320-2340 shales 100%, maroon to reddish brn, silty, lesser dk green, lt green, blk 1-2%

2340-2360 shales reddish brn, soft, silty, lesser lt green, soft, mixed in part, scattered blk

2360-2380 shales apple green, soft, some vsl micac., lesser maroon to brick red 1-2%, sparse blk

2380-2400 shales apple green, soft, some vsl micac., lesser maroon to brick red 1-2%, sparse blk

2400-2420 shales apple green, soft, lesser maroon to reddish brn, dk gry, occ. chalk, sparse sand clusters tan med grain

2420-2440 shales apple green, soft, silty, gritty, lesser dk gry, gry-green

2440-2460 shales apple green, soft, silty, gritty, lesser dk gry, gry-green

2460-2480 shales apple green, lt green mixed maroon and lesser reddish brn to rose pink, traces of blk shales

2480-2500 shales apple green, soft, silty and equal shales gry, dk gry, silty

2500-2520 shales dk gry, gry-green, included with organics, lesser apple green, ls tan to brn fn xln, grainy to suboolitic, sparse chert white and cream, fresh, opaque, suboolitic

2520-2540 no odor, ls tan and brn fn and med oolitic, lesser dolomite cream fn sucrosic, included with gry splotches and dolomite tan-brn med xln, no shows, sparse chert white, fresh, opaque, scattered sst white and clear, med and coarse grain, titely welded, rounded, poor I.G. porosity, pyritized sst in part, shales 15%, dk gry, gry-green, blk 1% and apple green, soft

2540-2560 no odor, dolomite cream and tan fn sucrosic, some vsl oolitic and occ. blk inclusions, very small amts of dolomite brn med xln, rare chert white with gry specks, fresh, opaque, slightly weathered, shales 10%, dk gry and blk, slightly pyritic

2560-2580 dolomite tan fn sucrosic and xln, lightly laced with chalk

2580-2600 dolomite tan fn xln dn, lesser sucrosic, some lightly laced with chalk, rare chert lt gry, fresh, subopaque to translucent

2600-2620 dolomite tan fn xln dn, scattered chert gry-lt gry, fresh, subopaque and opaque

2620-2640 dolomite brn and dk brn fn xln dn, some lightly pyritic, pyrite thru-out

2640-2660 dolomite brn and dk brn fn xln dn, occ. coarse vugs, assoc. COARSE PYRITE 20%

2660-2680 dolomite dk brn and a few brn fn xln dn, rare med vugs

2680-2700 dolomite dk brn and brn fn xln dn, slight chalk laced, increase texture to med xln

2700-2720 dolomite dk brn fn xln dn

2720-2740 dolomite dk brn fn xln dn

2740-2760 dolomite brn fn xln dn with med vugs thru-out

2760-2780 dolomite brn fn and med xln dn, scattered med and coarse vugs
2780-2800 dolomite tan fn and some med xln dn, assoc. med and coarse vugs, traces of chalk
2800-2820 dolomite dk brn fn xln dn, lesser dolomite cream fn xln dn, grainy and med xln
2820-2840 dolomite cream fn-med xln, grainy with good interxln and vugged porosity
2840-2860 dolomite cream fn-med xln some with coarse vuggy porosity
2860-2880 dolomite cream fn-med xln some with coarse vuggy porosity
2880-2900 dolomite cream to tan fn xln dn, some med xln, assoc. fn-med vugs thru-out
2900-2920 dolomite tan to brn fn xln dn, well dev. fn thru lesser coarse vuggy porosity
2920-2940 dolomite tan to brn fn xln dn, well dev. fn thru lesser coarse vuggy porosity
2940-2960 dolomite gry brn fn xln dn, scattered coarse and very coarse vuggy porosity
2960-2980 dolomite mostly cream and tan fn sucrosic, lesser fn xln dn
2980-3000 dolomite mostly cream and tan fn sucrosic, lesser fn xln dn
3000-3010 dolomite cream and brn med xln with well dev. coarse vugs
3010-3020 dolomite cram grades to tan fn and a few med xln dn, rare pyrite, traces chert white, opaque
3020-3030 dolomite cream fn xln dn increasing dolomite brn fn sucrosic, friable, occ. vugs
3030-3040 dolomite cream and tan fn sucrosic, scattered vuggy porosity
3040-3050 dolomite tan and some gry fn sucrosic and xln, slightly pyritic, occ. vuggy porosity
3050-3060 dolomite brn vfn sucrosic
3060-3070 dolomite gry fn sucrosic with shales 10%, dk green, and gry, hard, dolomitic
3070-3080 (Maq) shales dk green, silty and slightly included, dolomite 2-3%, cream fn xln and sucrosic
3080-3090 shales dk green, silty and slightly included and lightly pyritic in part, few blk, dolomite 30%, cream med xln with good I.G. porosity and vugs
3090-3100 shales green, dk green, soft, dolomite 2-3%, cream fn sucrosic
3100-3110 shales green, dk green, soft, dolomite 2-3%, cream fn sucrosic
3110-3120 shales dk green, gritty, heavily included with organics, brittle, dolomitic, traces dolomite cream fn xln dn
3120-3130 dolomite dk gry fn xln dn, gritty, hard, heavily included with organics, lesser shales dk gry, silty and sandy, heavily included

3130-3135 (VIOLA) **STRONG ODOR,** shales 60%, dk gry, dolomitic, included, dolomite gryish tan to cream med and some very coarse xln, grainy, euhedral facets with excellent vuggy and interxln porosity, **GOOD SHOWS DK BRN LIVE OIL ON BREAK and assoc. dk brn heavy oil beads bleeding from porosity, NO FLUOR WET OR DRY, no shows of gas, VERY FAST BLUE-GOLD CUT, dark brn residual oil ring after cut, DARK BRN heavy sptd and some even saturation,** lesser dolomite dk gry, gritty, fn xln hard

3135 C.F.S. 15" **strong odor,** dolomite cream and brn fn xln dn with lesser dolomite tan med and some coarse xln, euhedral xtal facets in part, well dev. interxln and vuggy porosity, **GOOD SHOWS heavy brn oil beads and live oil on break, NO SHOWS OF GAS, no fluor wet or dry, dk brn sptd and lesser even saturation with very fast blue-gold cut and brn residual oil ring in tray,** shales

25%, dk green, green

3135 C.F.S. 30" **strong odor,** dolomite cream and brn fn xln dn with lesser dolomite tan med and some coarse xln, euhedral xtal facets in part, well dev. interxln and vuggy porosity, **GOOD SHOWS heavy brn oil beads and live oil on break, NO SHOWS OF GAS, no fluor wet or dry, dk brn sptd and lesser even saturation with very fast blue-gold cut and brn residual oil ring in tray,** shales 25%, dk green, green

3135 C.F.S. 45" **faint to fair odor,** dolomite cream and brn med and coarse xln dn, scattered pcs. dolomite cream med xln, grainy with sub-euhedral facets, some rhombic app., **15% with fair and lesser good shows dk brn live oil, no fluor wet or dry, heavy dk brn sptd stain, no fluor wet or dry, VERY FAST BLUE GOLD CUT,** shales 15%, green

Short Trip 30 Joints (single rig) drill pipe - CTCH for 75 minutes - Drop Survey - TOOH f/DST 1

A pipe strap at DST 1 point (3135) indicated a difference of 24.51 feet long to the board. This error was noted but noted corrected when drillling resumed. This was to keep all inforamtion consistant moving forward.

3135-3150 no odor, dolomite cream to lt gry med and coarse xln, scattered chalk, chert gry with brn spots, fresh, opaque, lesser yellow-tan, fresh, subopaque, shales dk green, gry-green, gry

3150-3160 dolomite dk brn fn and med xln, sucrosic, small amts of dolomite cream to lt gry med and coarse xln, assoc. chert 15%, cream and dk brn, fresh, opaque, suboolitic in part, shales 10%, gry, dk gry and blk

3160-3170 dolomite brn and dk brn fn and med xln dn, chalk 5%+, assoc. chert tan and lt gry, fresh, opaque, shales 5%, dk gry

3170-3180 ls cream thru brn fn xln dn, some fn and med xln-suboolitic grades to chalky ls, dolomite 10%+, dk brn fn xln dn, shales 5%, blk and dk gry

3180-3190 ls cream thru brn fn xln dn, some fn and med xln-suboolitic grades to chalky ls, dolomite 10%+, dk brn fn xln dn, shales 5%, blk and dk gry

3190-3200 ls tan and some brn fn xln dn, scattered chalky ls, sparse chert milky to lt gry, fresh, subopaque, shales 2-3%, blk

3200-3210 ls tan and brn fn and med xln interbedded with chert gry to brn fresh, opaque, spicular in part 1-2%, shales 10%, green, dk gry, gry-green

3210-3220 ls tan and brn fn and med xln interbedded with chert gry to brn fresh, opaque, spicular in part 1-2%, shales 10%, green, dk gry, gry-green

3220-3230 ls tan and lesser brn med xln to suboolitic, shales 20%, green, dk gry, gry-green, apple green

3230-3240 ls tan and brn fn xln dn, some slighty included with glauc. grades to chalky ls, shales 20%, dk green, dk gry, green

3240-3250 ls brn vfn oolitic and slightly fossilif, shales 40%, dk gry, green, slightly pyritic

3250-3260 ls brn vfn oolitic and slightly fossilif, shales 40%, dk gry, green, slightly pyritic

3260-3270 ls cream and equal dk brn fn xln dn grades to weathered, shales 5%, dk green

3270-3280 ls cream and equal dk brn fn xln dn grades to weathered, shales 5%, dk green

3280-3290 shales 70%, flat green, few dk gry, ls cream to brn fn xln dn, small amts of dolomite dk brn fn-med xln, included with organics

3290-3300 (Simpson) ls cream to tan fn xln dn, incrasing to sandy ls with med clear, round qtz grains embedded in ls to sst white and tan med and med-coarse grain, rounded, titlely welded, few dolomitized sand clusters, abd qtz fn and med grain, round, no shows, trace green shale

3300-3310 **light odor**, qtz 40%, loose, fn and med grain, round, sst 20%, lt gry and white med and some med-coarse grain, fair to poorly sorted, calc. cement, **5% with tan-brn sptd and even saturation, glassy, poor thru lesser GOOD SHOWS dart brn live oil, some jagged and listless from good I.G. porosity, no fluor wet or dry, VERY FAST STREAMING CUT, weak to very bright gold cut in tray, tan and dk brn mostly spyd stain, few pcs. even saturation,** ls 20%, dk brn fn xln dn, shales 20%, green, dk green

3310-3320 ls tan-brn fn xln dn, trace fossil impressions, rare sst gry-white med grain, fair sorted, **sptd dk brn stain and small shows dk brn live oil,** NO LOOSE QTZ

3320 C.F.S. 20" **flash to faint odor,** ls dk brn and brn fn xln dn, fossil frags, sst 1%, white to lt gry med grain, poor I.G. porosity, **tan sptd stain,** no loose qtz

3320 C.F.S. 45" ls dk brn and brn fn xln dn, traces sst brn med grain, well sorted, poor I.G. porosity, round, no shows

CTCH FOR 60 MINUTES AFTER DST 2

3320-3330 ls tan-brn fn xln dn, lesser ls cream weathered, rare chert white, opaque, scattered sst tan and lt gry fn and fn-med grain, well sorted, friable, vsl included with organics, no fluor wet or dry, no shows oil, shales 15%, dk green

3330-3340 ls cream and tan fn xln dn, sst 5%, snow white vfn grain, well sorted, vsl included with organics, mostly clear, friable, few clusters, assoc. sst white fn thru med-coarse grain, round, very poorly sorted, friable, no shows, shales 5%, dk green, gry-green

3340-3350 sst 80%, snow white to cream, vfn grain, well sorted, vsl included and vsl pyritic, no shows, no odor, no fluor, ls tan and brn fn xln dn, shales 5%, gry-green, dk gry and blk 1%

3350-3360 sst 60%, snow white to cream, vfn grain, well sorted, vsl included and vsl pyritic, no shows, no odor, no fluor, ABUNDANT, loose qtz fn thru coarse grain, clear, rounded, ls 15%, tan and brn fn xln dn, shales 25%, maroon (hematic), to redddish brn and rose pink, some dk green, silty and sandy (maroon sample wash)

3360-3368 (Pre-C) feldspar, reddish brn and maroon orangish red, some interbedded and fused with very coarse fractured clear, qtx and biotite, shales 2-3%, dk gry, dk green and yellow green

3368 C.F.S. 45" (Pre-C) feldspar, reddish brn and maroon orangish red, some interbedded and fused with very coarse fractured clear, qtx and biotite, shales 2-3%, dk gry, dk green and yellow green

Submitted by Kenneth M. LeBlanc, Petroleum Geologist November 13, 2011

Daystar Petroleum, Inc.
Pfrang 1-19
340 FSL & 280 FWL
Sec. 19-T7S-R12E
Pottawatomie County, Kansas

November 6, 2011

Five (5) foot drill time from 0400 feet to 1000 feet
One (1) foot drill time from 1000 feet to RTD
--* - denotes missing drill time

0400-0500	3-5-5-4-3-3-3-6-10-5	4-12-6-5-5-5-6-8-5-5
0500-0600	5-4-4-6-5-5-5-8-10-10	5-5-4-3-6-5-6-7-7-4-5
0600-0700	*-*-*-*-*-*-*-*-*-*	*-*-*-*-*-*-*-*-*-*
0700-0800	*-*-*-*-*-*-*-*-*-*	*-*-*-*-*-*-*-*-*-*
0800-0900	12-11-1-12-18-17-14-18-20-6-4	7-6-15-20-18-5-12-5-7
0900-1000	8-10-5-5-5-5-5-5-5-2	4-6-10-6-10-10-9-8-5
1000-1020	1-1-1-1-1-1-1-1-1-1	1-1-1-1-1-1-1-1-1-1
1020-1040	1-1-1-1-1-1-1-1-1-1	1-1-1-1-1-1-2-4-3-1
1040-1060	1-1-1-1-1-1-1-1-1-1	1-1-1-1-2-2-3-2-3-3
1060-1080	3-2-2-2-1-3-2-2-3-2	3-3-2-2-3-2-3-3-3-2
1080-1100	3-2-1-1-1-1-1-3-4-2	1-1-1-1-1-1-1-1-1-2
1100-1120	2-6-4-3-3-3-2-2-1-1	2-1-1-1-2-2-1-2-1-2
1120-1140	2-1-1-2-2-1-1-1-1-2	1-1-2-1-2-1-2-1-1-2
1140-1160	1-1-1-1-2-1-3-2-1-1	1-1-1-1-1-2-1-1-1-1
1160-1180	1-1-1-2-1-1-1-2-1-1	1-2-2-1-1-2-1-1-1-1
1180-1200	1-1-1-2-2-1-2-1-1-2	4-4-2-1-1-1-1-2-2-2
1200-1220	1-1-2-1-1-2-1-2-1-1	1-1-1-1-1-1-1-1-1-1
1220-1240	1-1-2-1-1-1-1-1-1-1	1-1-1-1-1-2-1-2-1-1
1240-1260	1-1-1-1-1-1-1-1-1-1	1-1-1-1-1-1-1-1-1-1
1260-1280	1-1-1-1-1-1-1-1-1-2	1-2-1-1-1-1-1-1-2-3
1280-1300	3-2-3-3-2-2-2-2-2-2	2-2-3-3-3-4-4-5-4-3
1300-1320	3-3-3-3-4-3½-4-3-2½-3	2-2-2-2-2-3-2½-2-2-2½
1320-1340	1½-1½-1½-3½-3-2½-2-2½-2-3½	3½-5-4-3-4½-4-5-4-3½-3½
1340-1360	4-4-4-3-4½-4-4-3-3-3	3-3-3½-3½-6-4-3-2-2-2
1360-1380	3-2-3-2-2½-2-1½-2½-2½-2	2-2½-2-2½-2½-2-2½-2½-2-2½
1380-1400	3-2-1½-1½-1½-1-6-3-4½-4½	6-5-3-3½-4-5-4-3½-2-4
1400-1420	4-4½-5-4½-5-5½-4½-4-4-3	3-4-4-3-4-3½-1½-3½-4-3½
1420-1440	4½-4-4-3½-4-3-3½-5-3½-4	4½-4½-5½-5-4½-3½-3-2-3-2½
1440-1460	2-1½-1½-1½-4-5½-4-3-2½-2½	3-3-3-3½-2½-2-3-3½-5½-2
1460-1480	2-2-2-2-4½-5½-6-6-4-4	3-3½-4-3½-3-3-3-3-3-3
1480-1500	5-4-2-2½-4-4½-4-3-4-4	4-2-2½-3-2½-4-3-4½-4-4½
1500-1520	4½-3½-1-1-1-1-3-3-4-3	4-3-3-4-3-3-4-3-4-4
1520-1540	4-4-3-4-3-3-4-4-4-3	3-3-4-3-4-3-3-3-1-1
1540-1560	1-1-1-1-2-2-1-2-2-2	2-4-4-4-4-4-3-3-4-4
1560-1580	3-3-3-3-3-3-3-3-1-2	1-1-1-1-1-1-2-2-2-3
1580-1600	3-3-4-3-4-4-4-3-3-3	4-3-3-4-4-3-3-2-4-2
1600-1620	2-2-2-3-3-2-2-2-2-1	2-2-2-2-2-2-3-4-4-4
1620-1640	3-3-3-4-3-4-3-3-3-3	3-2-1-2-2-2-2-2-2-2
1640-1660	2-1-½-½-½-½-1-½-½-1	1-1-1-1-1-1-1-1-1-2
1660-1680	2-2-3-5-2-3-3-1-1-1	1-2-2-3-3-4-4-4-3-3
1680-1700	2-1-1-1-1-1-2-3-4-3	8-10-1-2-1-1-1-1-1-1
1700-1720	1-2-1-1-1-2-4-4-3-2	1-2-1-2-2-3-4-2-3-2

Daystar Petroleum, Inc.
Pfrang 1-19

1720-1740	4-3-2-3-2-3-2-2-1-1	1-1-1-2-2-2-1-1-2-2
1740-1760	2-2-1-2-2-7-6-3-4-5	1½-3½-3½-2-3½-3-3½-2-2½-1½
1760-1780	1-1½-1½-1½-1½-2-2-2-4-4	3-3½-3½-3-3-3-2½-2½-3-4
1780-1800	4½-4-3½-3-3-3-2-3-3-2	2-3-3½-1½-2½-2½-2-3-3-3
1800-1820	3-2-3-3-3-2-3-3-3-4	3-3-1½-2½-1-4-3-1-2-2
1820-1840	2-2-2-2-2-2-6-5-3-4	3-2-2-2-2-3-3-2-4-3
1840-1860	4-4-4-3-4-2-3½-2½-3½-4	3½-4-3-3-3-3-2½-5-5½-3½
1860-1880	3½-3-2½-2½-2½-2-3-1½-2-4	4½-4½-3-5-5-3-2½-3-3-2
1880-1900	3-2-4-1-1-3-3-4-4½-4½	4-4½-5-4-2½-3-4-3-5-4
1900-1920	3-4-5-5-3-2-4-2-2-3	3-3-2-3½-2½-2-3½-3½-3-3
1920-1940	3-4-3-3-2-3-4-3-3-4	3-3-4-3-4-3-2-3-1½-3
1940-1960	3½-3-3½-3-3½-4-4-4-3½-2	4-2-2-2-4-3½-2½-1½-2-3
1960-1980	3½-2½-2½-2½-2½-2½-3½-3½-2½-3	2-3½-4½-5-5-4-4-3-3-3
1980-2000	6-6-4-4-4-3-3-3-4-4	4-4-2-2-3-3-3-4-5-4
2000-2020	4-2-2-2-2-3-2-2-2-3	3-2-2-3-2-3-2-3-3-4
2020-2040	3-3-2-2-2-½-½-½-½-1	2-3-4-5-½-½-1-1-2-3
2040-2060	3-4-3-4-4-4-3-3-3-4	4-4-3-2-3-3-3-3-4-4
2060-2080	4-4-4-4-3-3-4-5-5-3	2-3-2-2-2-2-2-2-3-3
2080-2100	1-1-1-2-3-3-2-2-3-3	3-3-2-3-2-3-3-3-2-2
2100-2120	3-4-3-4-4-3-1-1-2-3	3-2-3-3-3-3-2-2-3-2
2120-2140	2-3-3-2-4-4-3-2-2-2	2-2-3-4-4-4-1-2-2-1
2140-2160	2-3-2-3-3-2-2-3-3-1	2-2-2-3-3-2-2-3-3-2
2160-2180	3-2-4-3-2-4-2-2-2-2	3-3-3-3-4-4-4-4-4-5
2180-2200	4-4-3-3-3-2-2-3-2-3	3-3-4-4-4-4-4-5-4-4
2200-2220	4-4-4-4-4-4-5-3-3-3	2-2-4-5-4-3½-4-3-4-4½
2220-2240	4½-4-3-4-5-4-2½-3½-5-5	4-3½-4-4-4½-4-4-3½-4-3½
2240-2260	3½-3½-4½-3½-3½-2½-2½-2½-2½-1½	1½-1-1-2-2-1½-1½-1½-2½-2½
2260-2280	2½-3½-8½-3-1½-3½-3½-3½-4-4	2½-3½-6-7-9-5-7-9-9-9
2280-2300	10-10-10-10-3-16-12-10-7-9	9-9-10-10-9½-8-8½-12-8-9
2300-2320	10-7-7-6-5½-6-6½-5-7-5	6-6-4½-5-7-5-5-4-3½
2320-2340	4½-4½-3½-5-5½-4½-4-5-4½-5	5-5-5-6-8-7-7-5-6-7
2340-2360	7-7-7-8-7-6-7-7-7-5	5-5-5-5-5-6-5-5-5-6
2360-2380	5-5-5-5-6-5-5-5-6-5	6-5-6-4½-5-2½-3-5-6-5
2380-2400	7-5-5-5-5-5-5-5-6-6	5-5-5-6-5-6-5-6-6-6
2400-2420	5-5-5-7-5-6-6-6-5-6	8-5-4-4-6-5-6-5-4-5
2420-2440	5-5-5-4-5-5-5-5-5-5	5-6-5-5-6-5-6-5-5-6
2440-2460	5-4-5-5-5-5-5-5-5-6	4-5-5-6-5-5-5-5-5-7
2460-2480	6-6-6-6-8-6-6-6-7-6	6-7-5-5-6-6-5-5½-5½-5
2480-2500	6-6½-6-6½-6½-6-6-6-6-6	6-6-6-6-6-6-5½-5½-6-5
2500-2520	7-7-4-5-5-6-5-6-5½-5½	6-6-5-6-6-6-6-6-5-6
2520-2540	6½-6½-6-6-13-15-9-8-7-8	9-5-2½-5-3½-3½-4-5-4-4
2540-2560	4-4-4-3½-3½-5-4½-5½-4½-4	4½-5-4-6-6½-4½-5-5-5-6
2560-2580	5-4½-4½-5-5-4-4-6-4½-4½	4-4½-4-4-3½-9-8-8-4-6
2580-2600	7-9-9-9-7-9-8-9-8-5	6-9-7-8-5-5-7-7-5-7
2600-2620	7-7-8-8-6-7-4-5-6½-5½	4-5-4-5-5-3-3-5-5-6
2620-2640	7-5-5-5-5-5-3-6-7-5	6-5-4-5-6-4-4-2-3-6
2640-2660	6-5-6-6-4-5-4-4-4-6	4-4-2-3-4-5-6-6-5-4
2660-2680	4-5-9-6-5-4-5-5-5-5	6-13-3-4-3-4-3-4-3-4
2680-2700	6-4-5-6-3-4-7-6-4-2	3-4-4-4-5-5-4-3-5-5
2700-2720	5-6-4-2-4-3-4-6-4-2½	4½-4½-5½-3-4-6-5½-6½-6-2½

2720-2740	4½-8-5-4-8-6-4-5-8½-6½
2740-2760	5-5-5-6-5-5-4-8-6-3
2760-2780	3-4-4-4-4-6-4-2-2½-3
2780-2800	3-3-3-3-4-6-3-3-4½-2½
2800-2820	2½-4-5-4½-4½-5½-6-3½-3½
2820-2840	1-1-1-2½-2½-2½-3½-8-8-8
2840-2860	4½-7½-5-4½-3-3-7½-8-8-5
2860-2880	2½-2½-4-2½-4-3½-4-3-3½-4½
2880-2900	3-4-3-2-2-3-3-4-4-5
2900-2920	4-4-4-3-3-3-3-6-4-3
2920-2940	5-4-3-4-3-4-3-3-2-3
2940-2960	1½-1-1-1-1-1-2-1-3-4
2960-2980	5-7-7-6-5-4-4-6-5-4
2980-3000	6-6-6-5-5-5-5-5-7-8
3000-3020	5-7-8-7-6-7-7-7-8-6
3020-3040	4½-3½-4-4-4-4-3-2-2-3
3040-3060	5-5½-8-6½-7½-8-8-8½-8-7½
3060-3080	5-5-5-5-5-5-5-6-5½-5
3080-3100	6-6-6-6-6-6-6-6-7-6
3100-3120	5½-5½-6-7-4½-6-6-4-6½-5½
3120-3140	5-3-6-6-6-6-4-3-4-2
3140-3160	8-7-8-8-8-6-5-5-4-4
3160-3180	9-9-9-9-8½-7½-9-10-9-7½
3180-3200	6½-6½-6½-7-4-7-6-6½-6-6½
3200-3220	6-5-6-6-6-6-66-5½-6
3320-3340	6-6½-6-3-6-5½-5½-6-5-6
3340-3360	4-5-4-6-5-5-5-5-5-5½
3360-3380	8-8-8-7-6-7-8-9-9-8½
3280-3300	8-7½-7½-8½-7-10-12½-11-11-9
3300-3320	7-8-8½-10½-11-7-8½-6½-8-6
3320-3340	6-4-6-6-5-6-4-5-5-5
3340-3360	3-7-16-8-4-5-2-3-10-15
3360-3368	8-24-20-18-19-18-15-10 RTD 3368

6-6-5-3-7-6½-8-3-5-5
4½-1-2-1-2-2-1-2-2-2
3-2½-4½-4½-5-7-4-4½-4½-3½
2-4-5-5-3½-2½-2-3½-2½-2½
2½-3-2½-3-3-3-2-2-2-2
6-1½-2-1½-2-1½-4-5-2½-4½
6½-3½-3½-5-4-1-3-3-4-3
4½-3-7-8-5-5-5-3-4-3
4-6-4-3-3-4-4-4-3-2
3-4-4-3-4-4-4-5-3-4
4-3½-4½-4-3-4-2-2½-1½-1½
4-3-4-7-7-6-5-6-5-6
6-5-5-3-4-4-6-6-4-6
8-9-7-9-8-5-6-7-4-6
5-4-4-3-3-3½-4½-4½-4-3½
3½-3½-4½-4½-4-5½-3-5½-5½-6
7½-8-7½-8½-8-8-4-6½-6-4½
5½-5½-5-5½-6½-5-5-6-6-6
5½-5½-6-5½-5½-5½-5½-6-6-5½
6-6½-5½-6-5-5½-6-6-5-2
4-5-5-6½-6½-6-6-7-7-5
7-10-6-6-7-9-9-10-10-11
7-7½-7½-6½-7-6½-6-6½-6-6½
7-6-7-6-6-6-5½-6-6½-5½
6-5-5½-6-5-3-5½-5½-7-7
6-6-6½-7-7½-7-7-5-4-6
5-6-6-6½-9-9-9-7-10-8
8-8-8½-9-8-8-10-10-8-6½
8-9-10-9-7-6½-4-6½-5
7-7½-8-10-10-10-8½-10-9-9
5-4-7-18-21-18-1-4-1-4-2-4
10-6-4-5-4-6-6-5-5-7

LOG-TECH

Sonic Cement Bond Log

API No. 15-149-20,065-00-00

Company Daystar Petroleum, Inc.

Well Pfrang No. 1-19

Field Wildcat

County Potawatomie State Kansas

Location 340' FSL & 280' FWL

Sec: 19 Twp: 7 S Rge: 12 E

Other Services: Portable Mast

Elevation: K.B. 1304, D.F. , G.L. 1294

Permanent Datum	Ground Level	Elevation 1294		
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum		
Drilling Measured From	Kelly Bushing			
Run Number	One			
Date Survey	11-21-2011			
Date Cementing	11-14-2011			
Type Cementing Operation	Primary			
Depth Driller	3368			
Depth Logger	3361			
Logged Interval	3360 to 2000			to
Casing Driller	5.5" @ T. D.			@
Float Collar -- D.V. Tool	////	////		
Squeeze Depth	////	////		
Amount & Type Cement	////	////		
Amount & Type Admix	////	////		
Type Fluid In Hole	Water			
Fluid Level	Full			
Salinity PPM CL	////	////		
Weight lb/gal -- Vis.	////	////		
Approx. Logged Cement Top	2188			
Calculated Cement Top	////	////		
Max. Hole Temperature	112			
Tool No.	RBT 5-5			
Spacing Recorded	3-5			
Equipment -- Location	3 Hays			
Recorded By	Stan Linenberger			
Witnessed By	John Wescott			

<<< Fold Here >>>

Comments

Thank you for using Log-Tech, Inc.
(785) 625-3858

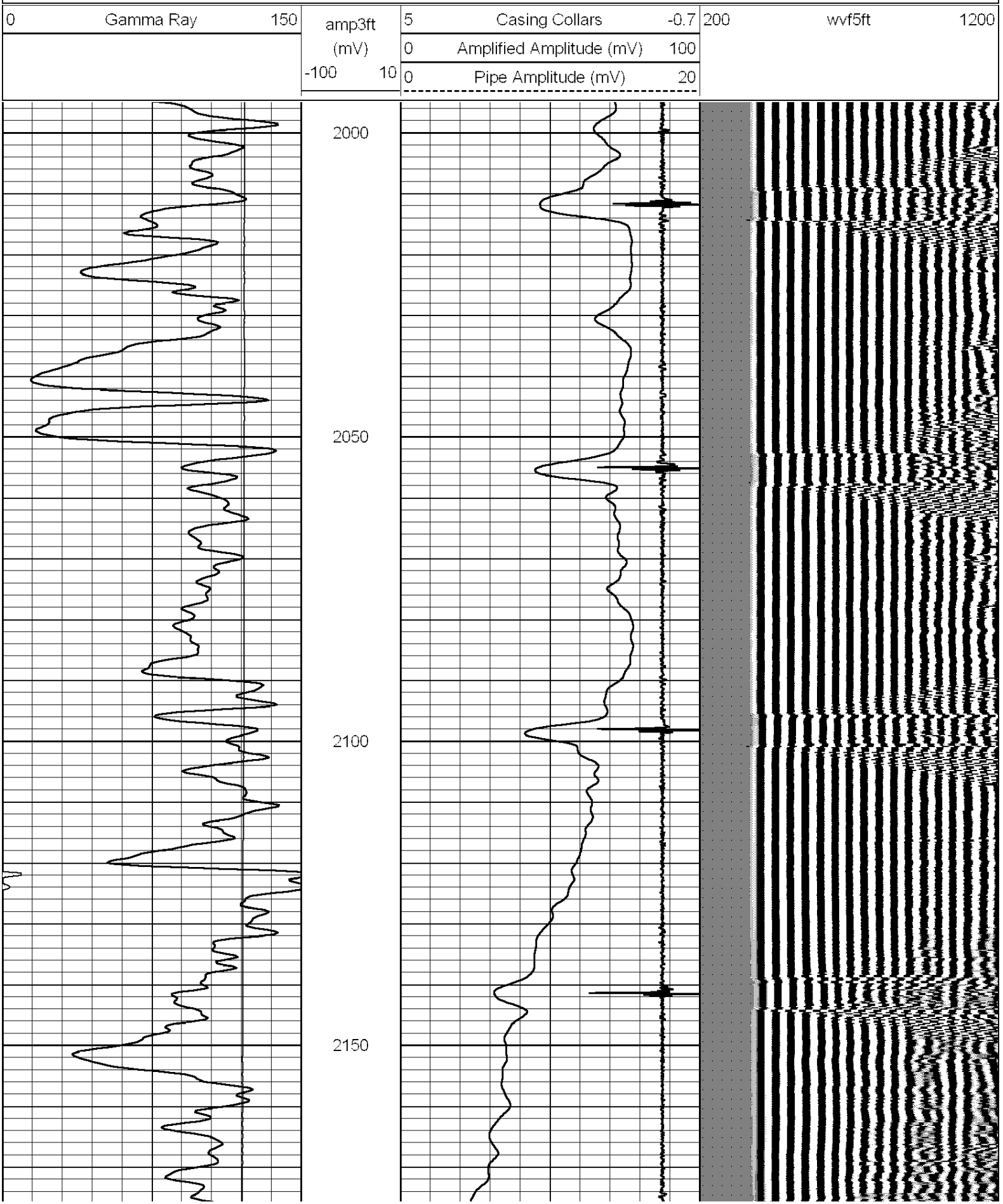
St. Marys, Kansas; North on Hwy. 63 to Fairview Rd.,
West 2 Miles to Lincoln Rd., South 1 Mile,
West Into 1 Mile.

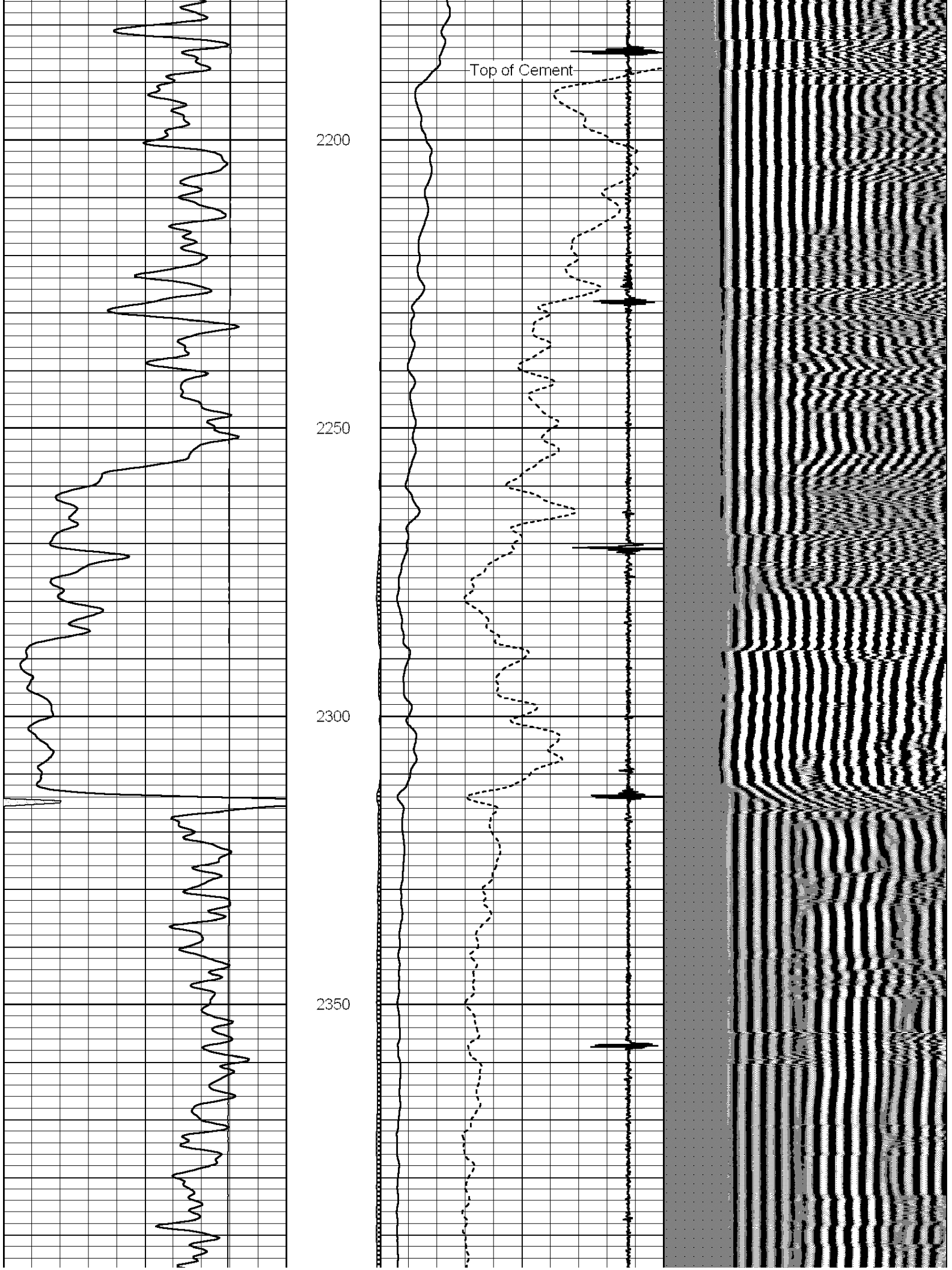
LOG-TECH

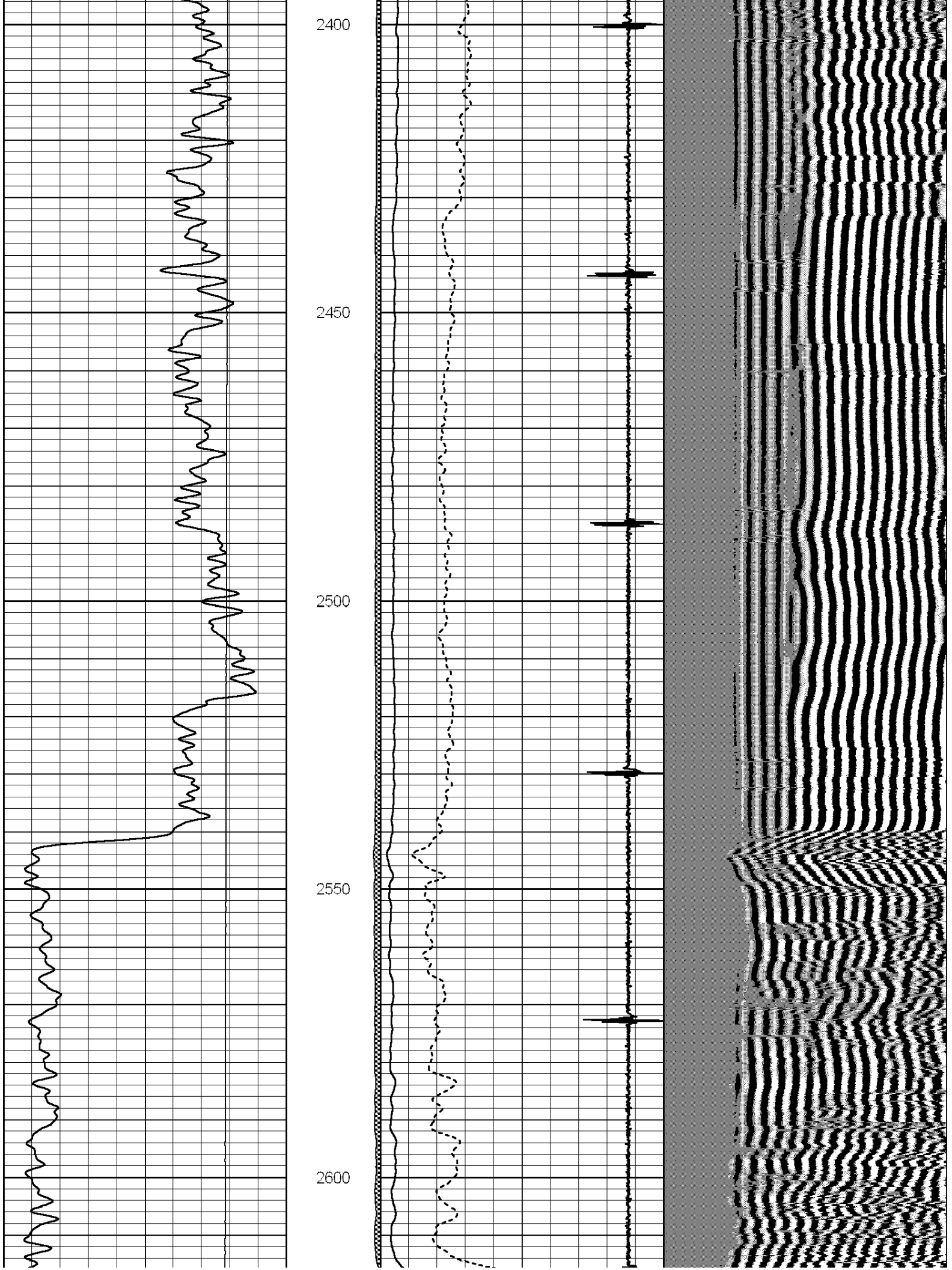
Main Pass

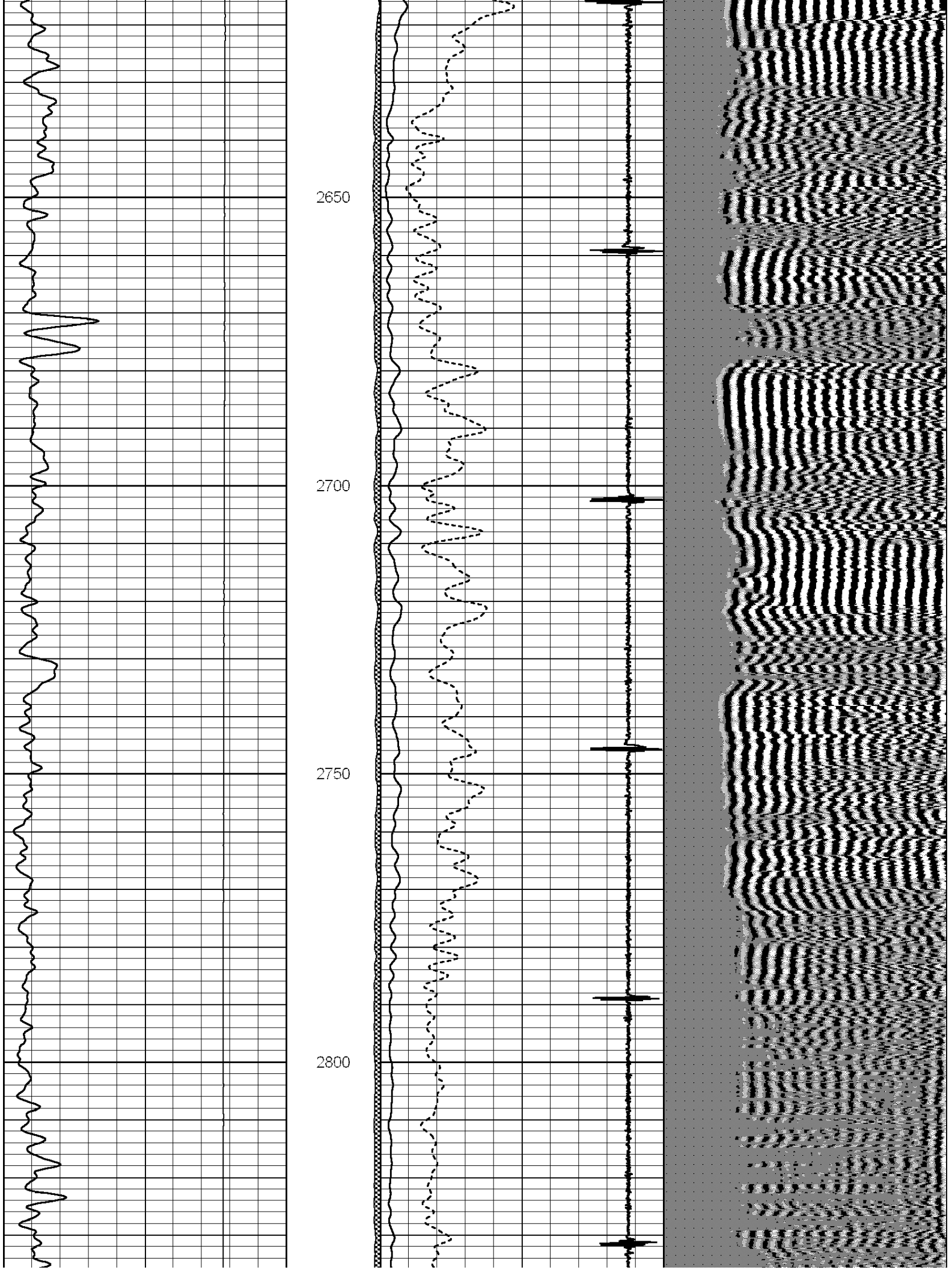
[redacted]

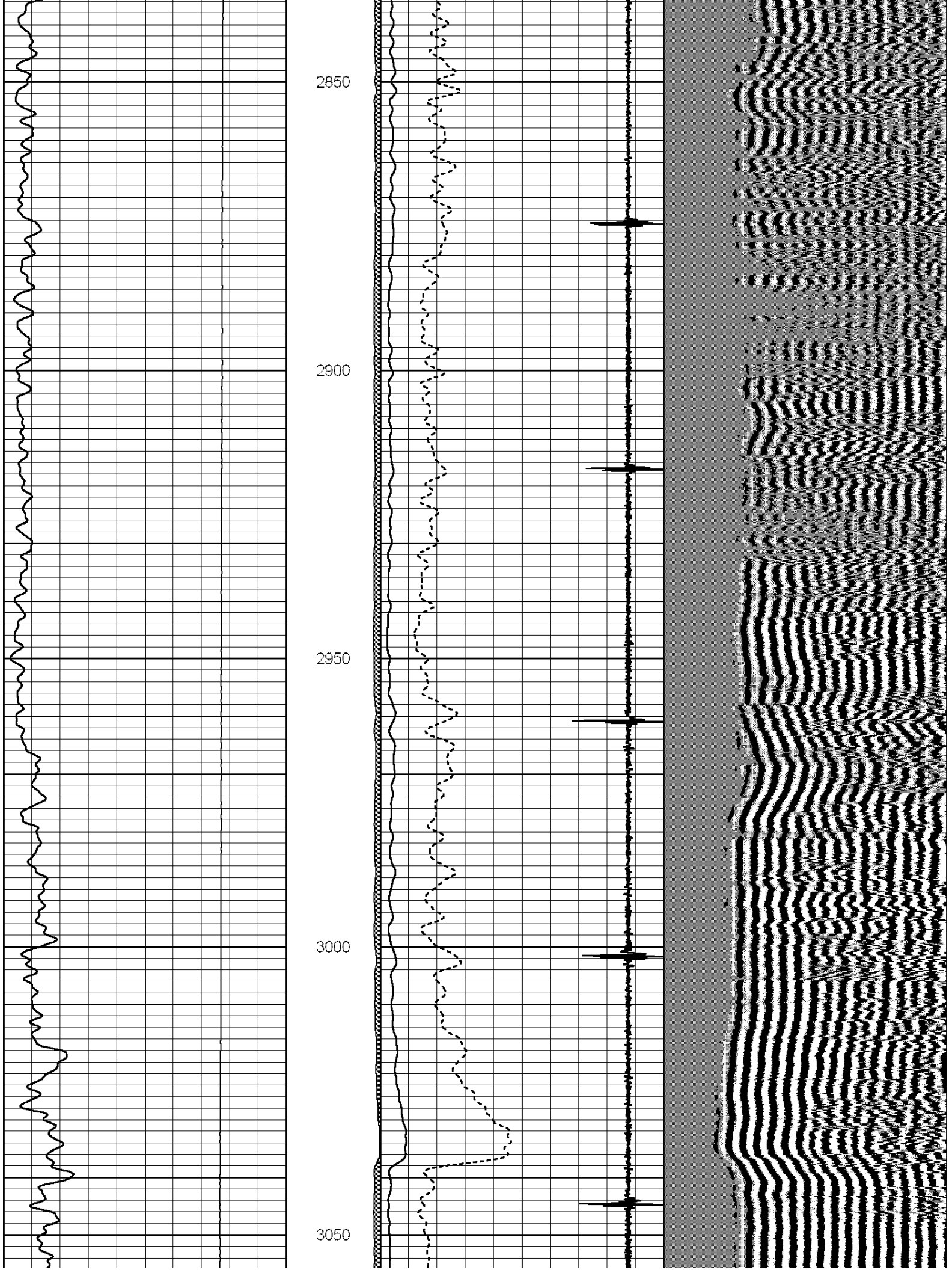
Database File:	daystar pfrang no 1-19.db
Dataset Pathname:	grcbl/pass2
Presentation Format:	cbldr
Dataset Creation:	Mon Nov 21 11:48:55 2011 by Log Std Casedhole 09061
Charted by:	Depth in Feet scaled 1:240

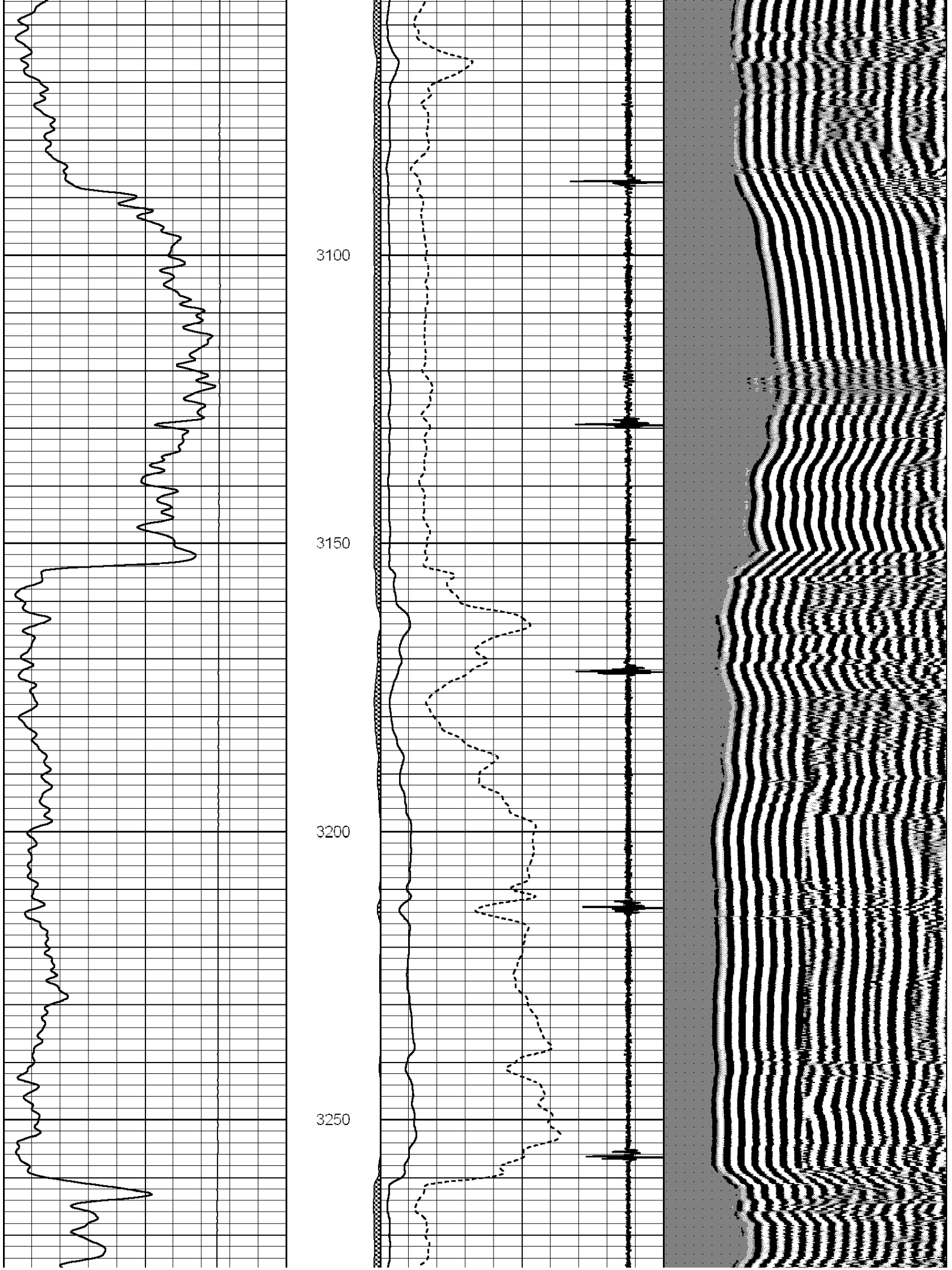


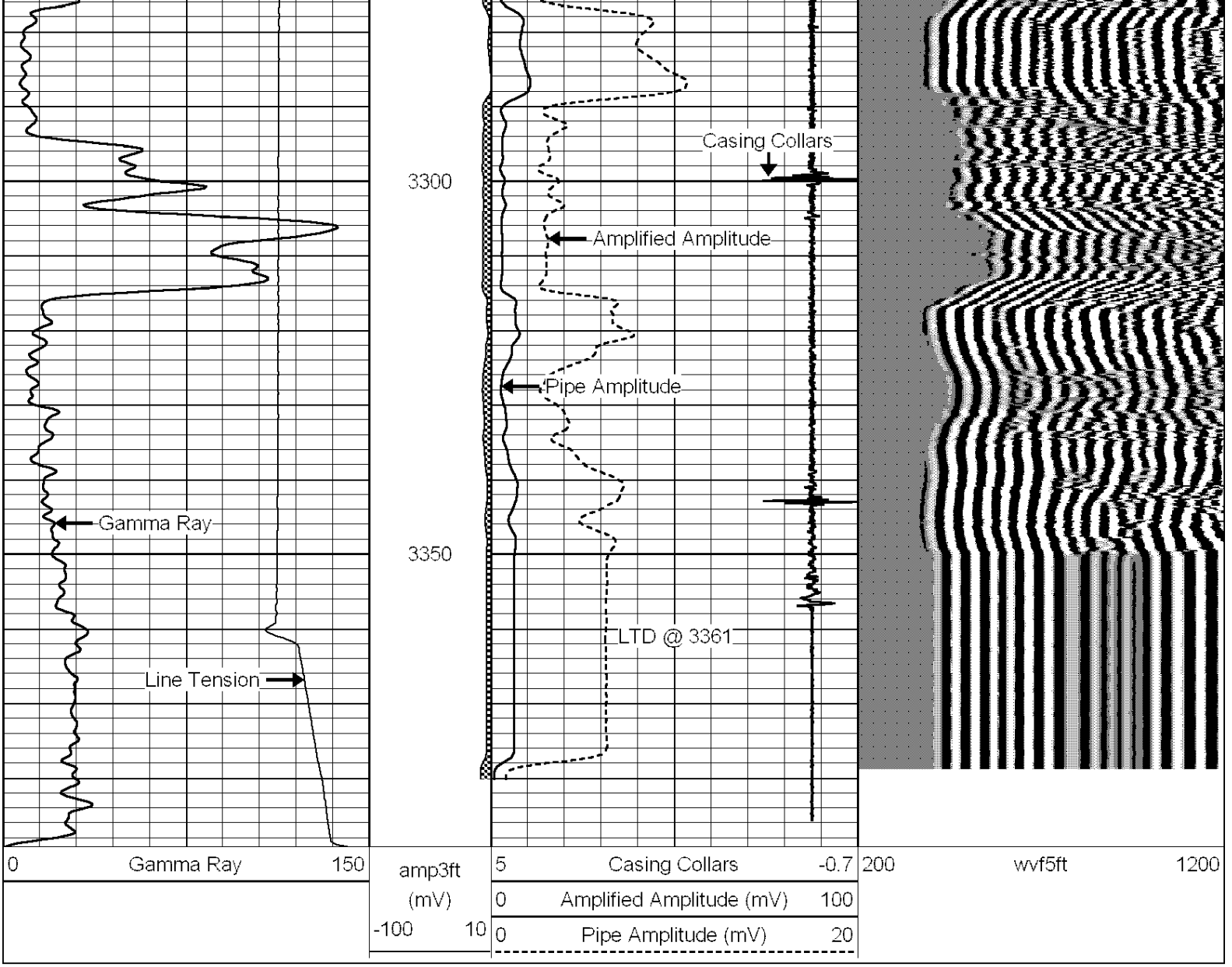

Top of Cement
2200
2250
2300
2350


2400
2450
2500
2550
2600


2650
2700
2750
2800


2850
2900
2950
3000
3050

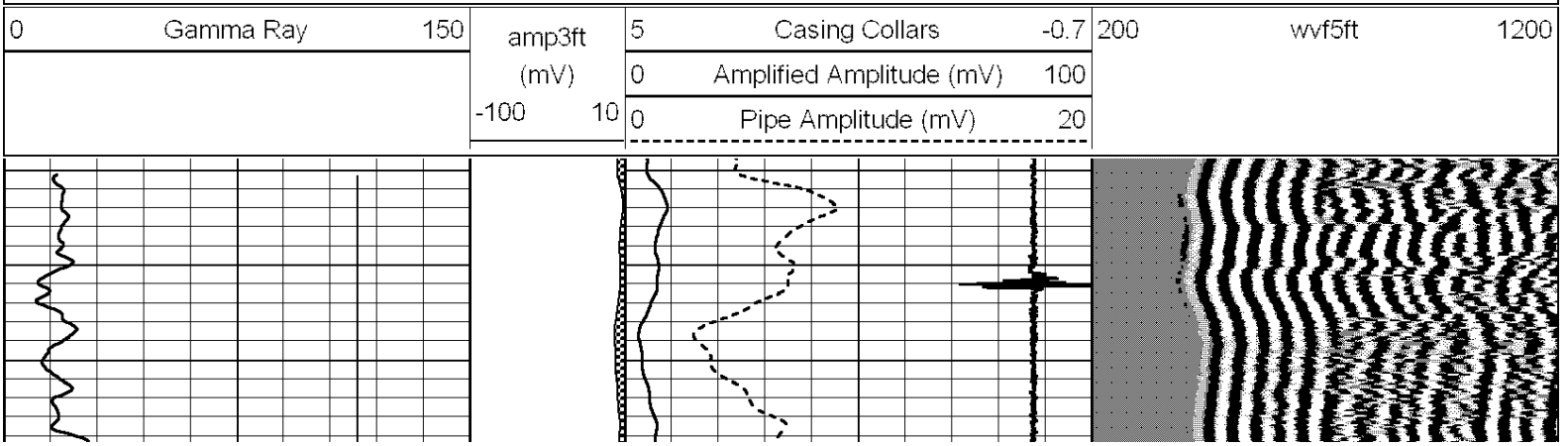

3100
3150
3200
3250

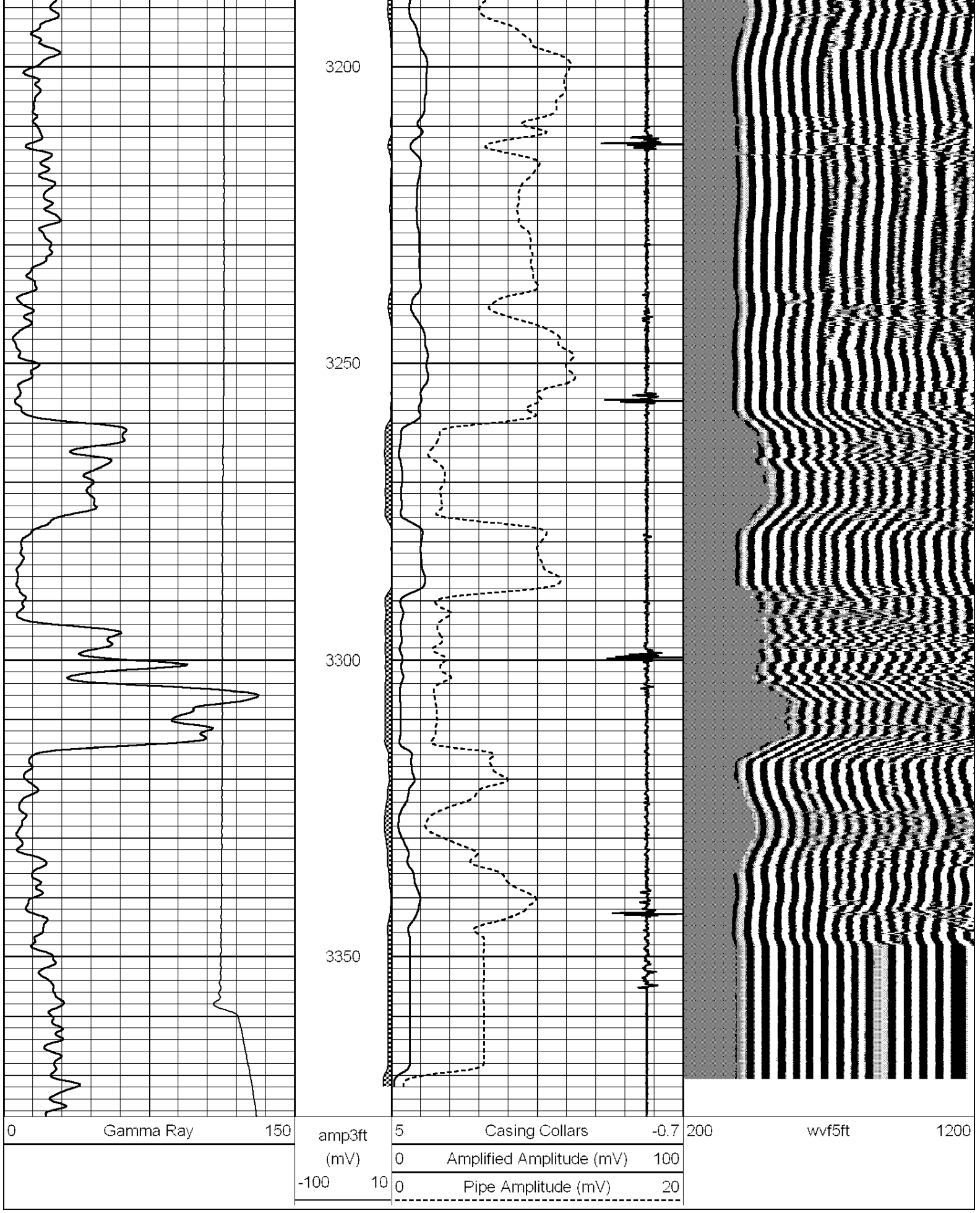


LOG-TECH

Repeat Section

Database File:	daystar pfrang no 1-19.db
Dataset Pathname:	grcbl/pass1
Presentation Format:	cbldr
Dataset Creation:	Mon Nov 21 11:43:41 2011 by Log Std Casedhole 09061
Charted by:	Depth in Feet scaled 1:240




3200
3250
3300
3350
0
Gamma Ray
150
amp3ft
(mV)
-100
10
5
Casing Collars
-0.7
0
Amplified Amplitude (mV)
100
0
Pipe Amplitude (mV)
20
200
wvf5ft
1200