



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1070706  
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: \_\_\_\_\_

1070706

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	TDI, Inc.
Well Name	Schrant 1
Doc ID	1070706

Tops

Name	Top	Datum
Anhydrite Top	882	+950
Dover Lime	2490	-658
Tarkie Lime	2531	-699
Topeka	2786	-954
Heebner	3009	-1177
Lansing/KC	3063	-1231
Base/KC	3292	-1460
Arbuckle	3319	-1487



## DRILL STEM TEST REPORT

Prepared For: **TDI, Inc.**

1310 Bison Rd.  
Hays, KS 67601

ATTN: Herb Deines

### **Schrant #1**

#### **30-14s-15w Russell,KS**

Start Date: 2011.12.10 @ 16:58:15

End Date: 2011.12.10 @ 21:34:45

Job Ticket #: 44223                      DST #: 1

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

Printed: 2011.12.13 @ 15:59:49

TDI, Inc. 30-14s-15w Russell,KS Schrant #1 DST # 1 LKC "A-B" 2011.12.10



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

TDI, Inc.  
 1310 Bison Rd.  
 Hays, KS 67601  
 ATTN: Herb Deines

**30-14s-15w Russell, KS**  
**Schrant #1**  
 Job Ticket: 44223      **DST#: 1**  
 Test Start: 2011.12.10 @ 16:58:15

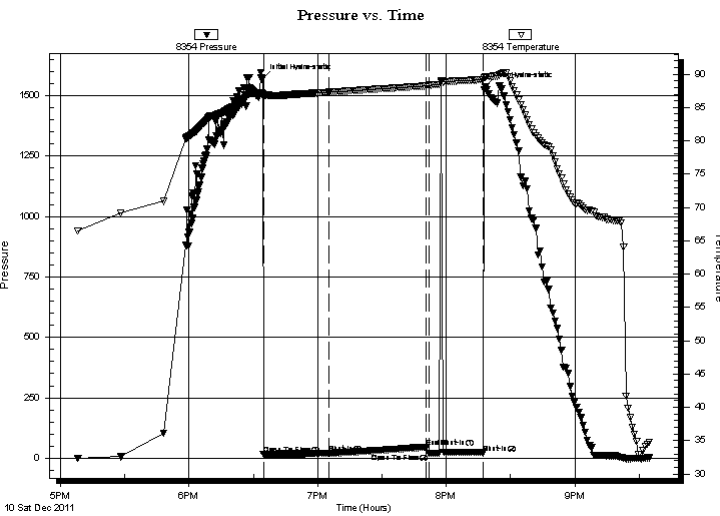
## GENERAL INFORMATION:

Formation: **LKC "A-B"**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 18:35:05  
 Time Test Ended: 21:34:45  
**Interval: 3050.00 ft (KB) To 3095.00 ft (KB) (TVD)**  
 Total Depth: 3085.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Rash  
 Unit No: 38  
 Reference Elevations: 1834.00 ft (KB)  
 1825.00 ft (CF)  
 KB to GR/CF: 9.00 ft

## Serial #: 8354      Inside

Press @ Run Depth: 19.50 psig @ 3077.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2011.12.10      End Date: 2011.12.10      Last Calib.: 2011.12.10  
 Start Time: 17:08:15      End Time: 21:34:45      Time On Btm: 2011.12.10 @ 18:34:35  
 Time Off Btm: 2011.12.10 @ 20:18:15

**TEST COMMENT:** IF-Weak 1/4 inch blow . Died @ 19 minutes 30 seconds.  
 IS-No Return.  
 FF-No Blow . Flushed Tool. Surface blow for 6 minutes. Pulled Tool.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1569.28	87.12	Initial Hydro-static
1	16.65	86.83	Open To Flow (1)
31	19.50	87.28	Shut-In(1)
77	46.67	88.23	End Shut-In(1)
78	20.36	88.30	Open To Flow (2)
103	21.17	89.19	Shut-In(2)
104	1536.37	89.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	100%Mud	0.28

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

TDI, Inc.  
1310 Bison Rd.  
Hays, KS 67601  
ATTN: Herb Deines

**30-14s-15w Russell, KS**  
**Schrant #1**  
Job Ticket: 44223      **DST#: 1**  
Test Start: 2011.12.10 @ 16:58:15

**Tool Information**

Drill Pipe:	Length: 3040.00 ft	Diameter: 3.80 inches	Volume: 42.64 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 42.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3040.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3021.00	
Shut In Tool	5.00			3026.00	
Hydraulic tool	5.00			3031.00	
Packer	5.00			3036.00	20.00      Bottom Of Top Packer
Packer	4.00			3040.00	
Stubb	1.00			3041.00	
Perforations	3.00			3044.00	
Change Over Sub	1.00			3045.00	
Drill Pipe	31.00			3076.00	
Change Over Sub	1.00			3077.00	
Recorder	0.00	8354	Inside	3077.00	
Recorder	0.00	8520	Outside	3077.00	
Perforations	5.00			3082.00	
Bullnose	3.00			3085.00	45.00      Bottom Packers & Anchor

**Total Tool Length: 65.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

TDI, Inc.

**30-14s-15w Russell,KS**

1310 Bison Rd.  
Hays, KS 67601

**Schrant #1**

Job Ticket: 44223

**DST#: 1**

ATTN: Herb Deines

Test Start: 2011.12.10 @ 16:58:15

**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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
20.00	100%Mud	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

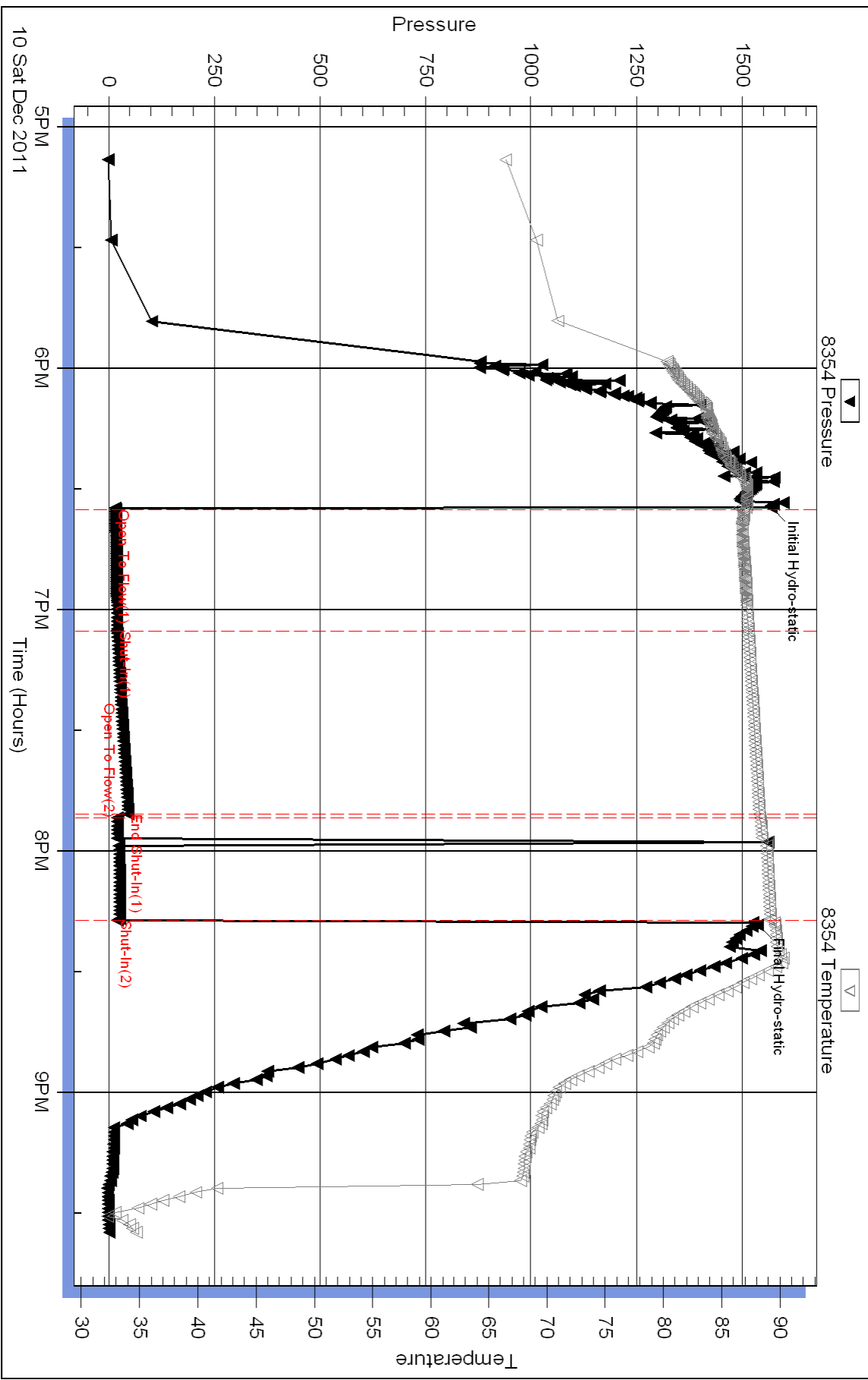
Laboratory Name:

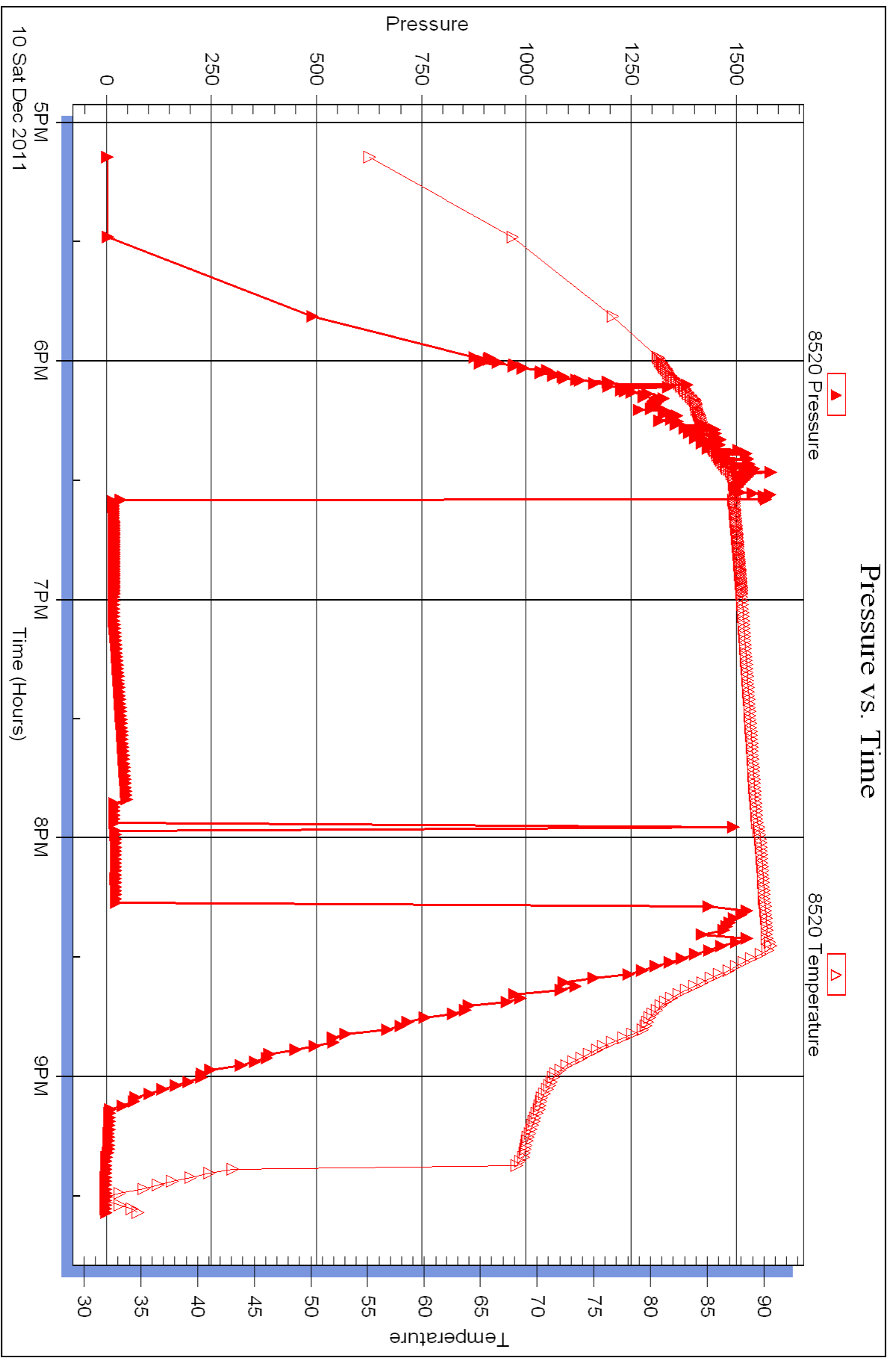
Laboratory Location:

Recovery Comments:



### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **TDI, Inc.**

1310 Bison Rd.  
Hays, KS 67601

ATTN: Herb Deines

### **Schrant #1**

#### **30-14s-15w Russell,KS**

Start Date: 2011.12.11 @ 20:30:30

End Date: 2011.12.12 @ 01:22:30

Job Ticket #: 44224                      DST #: 2

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

Printed: 2011.12.13 @ 15:58:12

TDI, Inc. 30-14s-15w Russell,KS Schrant #1 DST # 2 Pleasanton 2011.12.11







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

TDI, Inc.  
1310 Bison Rd.  
Hays, KS 67601  
ATTN: Herb Deines

**30-14s-15w Russell, KS**  
**Schrant #1**  
Job Ticket: 44224      **DST#: 2**  
Test Start: 2011.12.11 @ 20:30:30

**Tool Information**

Drill Pipe:	Length: 3266.00 ft	Diameter: 3.80 inches	Volume: 45.81 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	5000.00 lb
			<u>Total Volume: 45.81 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	36000.00 lb
Depth to Top Packer:	3270.00 ft			Final	36000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	58.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3251.00	
Shut In Tool	5.00			3256.00	
Hydraulic tool	5.00			3261.00	
Packer	5.00			3266.00	20.00      Bottom Of Top Packer
Packer	4.00			3270.00	
Stubb	1.00			3271.00	
Perforations	1.00			3272.00	
Recorder	0.00	8354	Inside	3272.00	
Recorder	0.00	8520	Outside	3272.00	
Perforations	33.00			3305.00	
Bullnose	3.00			3308.00	38.00      Bottom Packers & Anchor

**Total Tool Length: 58.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

TDI, Inc.  
1310 Bison Rd.  
Hays, KS 67601  
ATTN: Herb Deines

**30-14s-15w Russell, KS**  
**Schrant #1**  
Job Ticket: 44224      **DST#: 2**  
Test Start: 2011.12.11 @ 20:30:30

## 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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6700.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%Mud	0.070

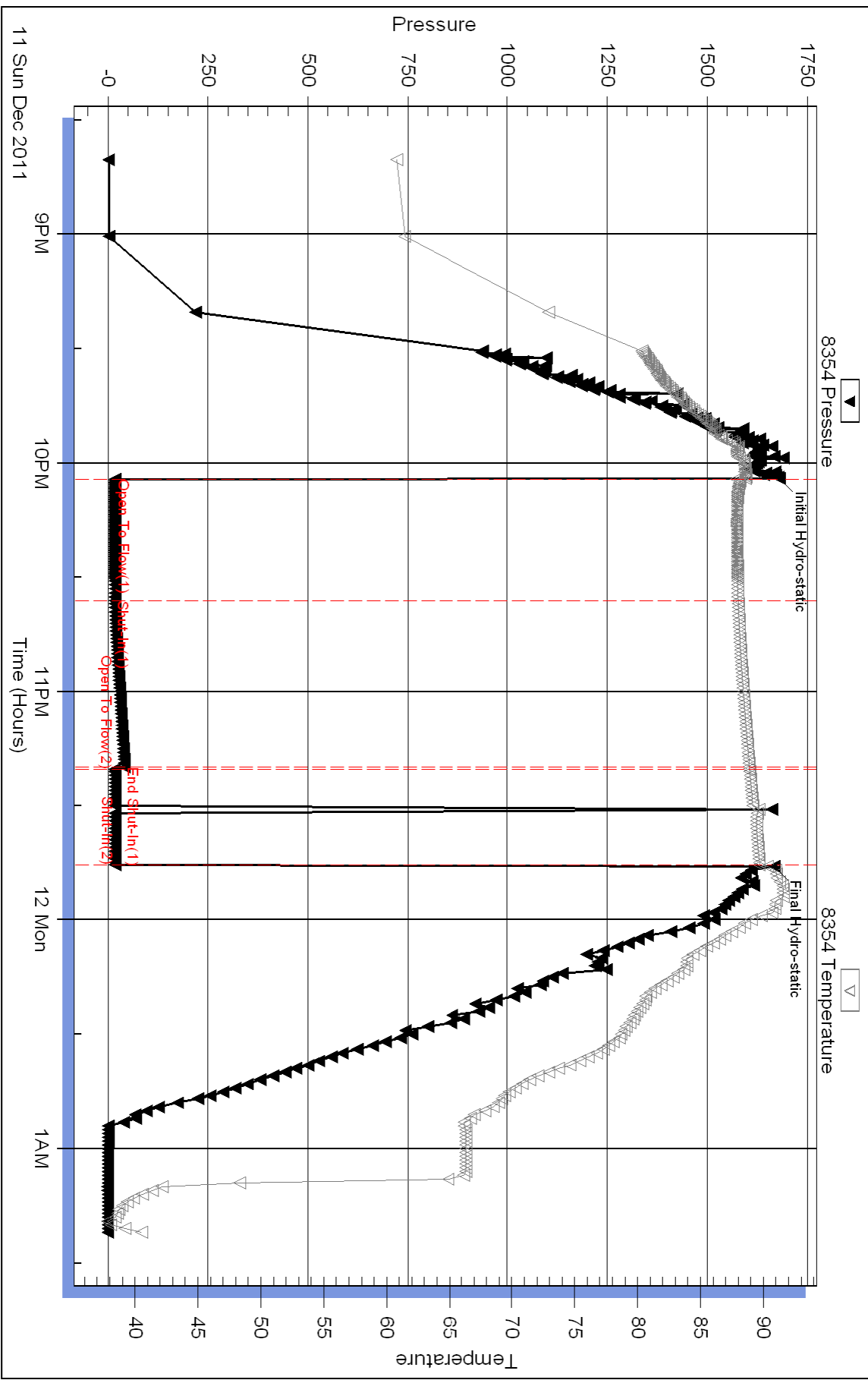
Total Length: 5.00 ft      Total Volume: 0.070 bbl

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

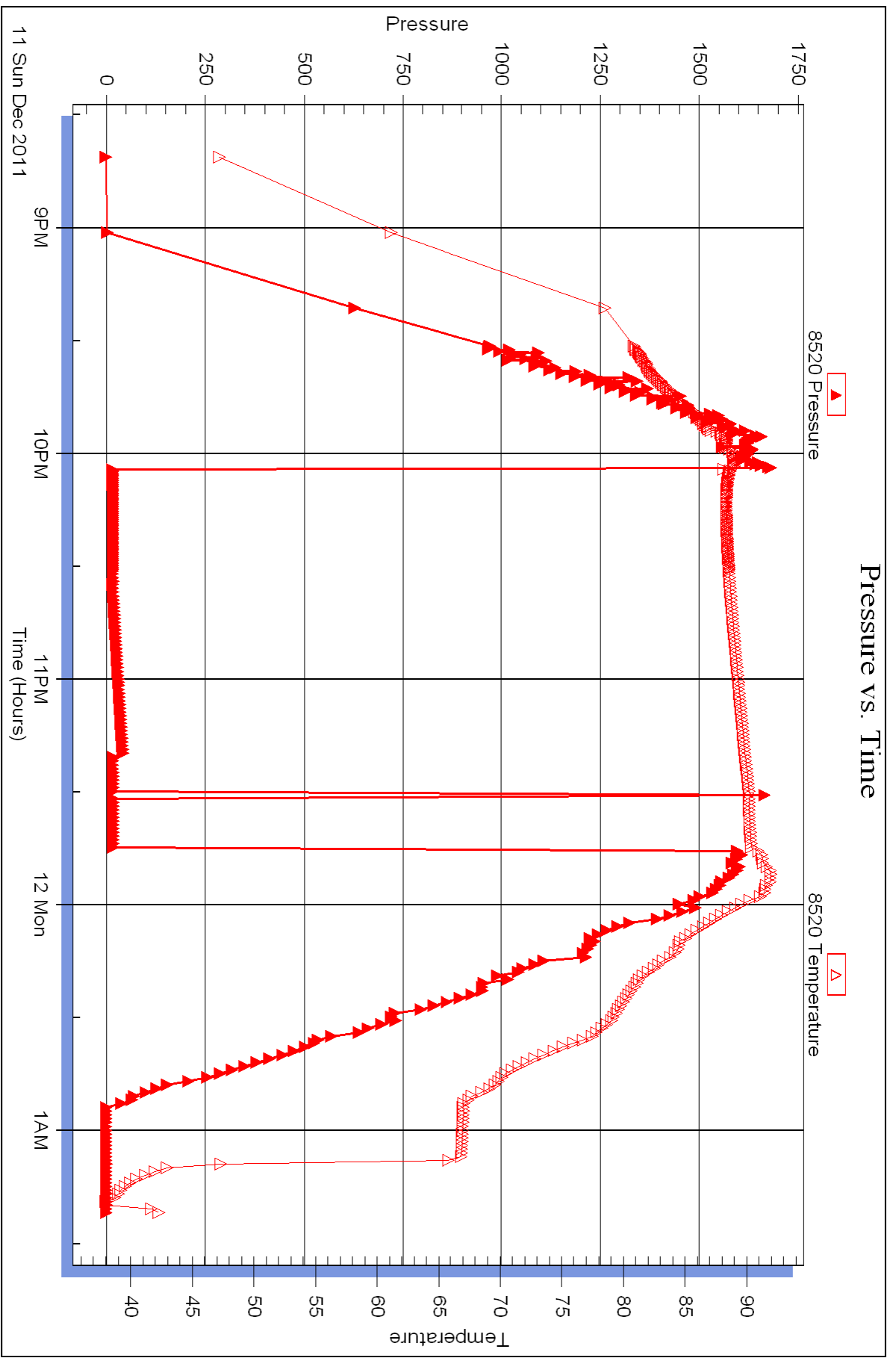
Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time









# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
DEC 13 2011

## Test Ticket

NO. 44223

Well Name & No. Schwartz #1 Test No. 2 Date 12-10-11  
 Company TDI Inc. Elevation 1834 KB 1825 GL  
 Address 1310 Bison Rd. Hays, KS 67601  
 Co. Rep / Geo. Herb Dienes Rig Southwind 2  
 Location: Sec. 30 Twp. 14S Rge. 15W Co. Russell State KS

Interval Tested 3040-3095 Zone Tested LKC "A-B"  
 Anchor Length 45' Drill Pipe Run 3040 Mud Wt. 9.3  
 Top Packer Depth 3035 Drill Collars Run 0 Vis 51  
 Bottom Packer Depth 3040 Wt. Pipe Run 0 WL 8.0  
 Total Depth 3095 Chlorides 6500 ppm System LCM 2#

Blow Description IF - Weak 1/4 inch blow, Died @ 19 minutes 30 seconds.  
ISZ - No Return,  
FF - No blow, Flushed Tool, Surface blow 16 minutes, Pulled Tool.

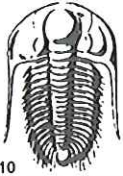
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total \_\_\_\_\_ BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1569  Test 1125' T-On Location 1430  
 (B) First Initial Flow 17  Jars \_\_\_\_\_ T-Started 1700  
 (C) First Final Flow 20  Safety Joint \_\_\_\_\_ T-Open 1835  
 (D) Initial Shut-In 47  Circ Sub \_\_\_\_\_ T-Pulled 2015  
 (E) Second Initial Flow 20  Hourly Standby \_\_\_\_\_ T-Out 2130  
 (F) Second Final Flow \_\_\_\_\_  Mileage 20X2 50.00 Comments Bar - 1658  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1536  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1181'  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1181'

Approved By \_\_\_\_\_ 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.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
DEC 13 2011

## Test Ticket

NO. 44224

BY: \_\_\_\_\_

Well Name & No. Schiant #2 Test No. 2 Date 12-11-11  
 Company TDI, Inc. Elevation 1834 KB 1825 GL  
 Address 1310 Bison Rd. Hays, KS 67601  
 Co. Rep / Geo. Herb Dienes Rig Southwind 1  
 Location: Sec. 30 Twp. 14S Rge. 15W Co. Russell State KS

Interval Tested 3270-3308 Zone Tested Pleasanton  
 Anchor Length 38' Drill Pipe Run 3266 Mud Wt. 9.4  
 Top Packer Depth 3265 Drill Collars Run 0 Vis 53  
 Bottom Packer Depth 3270 Wt. Pipe Run 0 WL 8.8  
 Total Depth 3308 Chlorides 6,700 ppm System LCM 2#  
 Blow Description IF - Surging 1/4 inch blow,  
ISI - No Return,  
FF - No blow. Flushed Tool, Few bubbles. Pulled Tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>			<u>100</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 90 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1680  Test 1125' T-On Location ~~1630~~ 1930  
 (B) First Initial Flow 17  Jars \_\_\_\_\_ T-Started 2045  
 (C) First Final Flow 17  Safety Joint \_\_\_\_\_ T-Open 2204  
 (D) Initial Shut-In 41  Circ Sub \_\_\_\_\_ T-Pulled 2345  
 (E) Second Initial Flow 16  Hourly Standby \_\_\_\_\_ T-Out 0115  
 (F) Second Final Flow \_\_\_\_\_  Mileage 20x2 50' Comments BHT-2030  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1667  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1181'  
 Final Flow Pulled  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_ Sub Total 1181'

Approved By \_\_\_\_\_

Our Representative D. Rash

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.

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



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

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

January 10, 2012

Tom Denning  
TDI, Inc.  
1310 BISON RD  
HAYS, KS 67601-9696

Re: ACO1  
API 15-167-23757-00-00  
Schantz 1  
NE/4 Sec.30-14S-15W  
Russell 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,  
Tom Denning









# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 190

Cell 785-324-1041

Date	12-7-11	Sec.	30	Twp.	14	Range	15	County	Russell	State	Ks	On Location		Finish	2:30 AM	
Lease	Schuant	Well No.	1	Location Gocham, Ks - S to 4 Corners Rd,												
Contractor	Southwind #1	Owner										KW, S/Into				
Type Job	Surface	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.														
Hole Size	12 1/4"	T.D.	226'	Charge To												TDI Inc.
Csg.	8 1/8"	Depth	223'	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.	15'	Shoe Joint	15'	Cement Amount Ordered												150 Common 3% CC 2% Gel
Meas Line		Displace	13 1/4 BLS													

**EQUIPMENT**

Pumptrk	1	No.	Cementer	Cisco	Common	150
			Helper			
Bulktrk	10	No.	Driver	Brett	Poz. Mix	
			Driver			
Bulktrk	pr	No.	Driver	Rick	Gel.	3
			Driver			

**JOB SERVICES & REMARKS**

Remarks:	Cement did Circulate.	Calcium	3
Rat Hole		Hulls	
Mouse Hole		Salt	
Centralizers		Flowseal	
Baskets		Kol-Seal	
D/V or Port Collar		Mud CLR 48	
		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	158
		Mileage	

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Surface
Mileage	1/1

Signature <i>[Signature]</i>	Tax
	Discount
	Total Charge



# Dual Induction Log

DIGITAL LOG (785) 625-3858

15-67-23,757-00-00

API No.	Company	TDI, Inc
	Well	Schrant No.1
	Field	Aley West
	County	Russell
	State	Kansas
Location	NW/SE NE NE 950' FNL & 425' FEL	
Sec: 30	Twp: 14 S	Rge: 15 W
Permanent Datum	Ground Level	Elevation 1822
Log Measured From	Kelly Bushing	10 Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing	
		Other Services CNL/CDL
		Elevation K.B. 1832 D.F. 1822 G.L. 1822

Date	12/12/2011
Run Number	One
Depth Driller	3500
Depth Logger	3504
Bottom Logged Interval	3503
Top Log Interval	200
Casing Driller	8.625 @ 223
Casing Logger	223
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity,ppm CL	6700
Density / Viscosity	9.4   53
pH / Fluid Loss	10.5   8.8
Source of Sample	Flowline
Rm @ Meas. Temp	.38 @ 48
Rmf @ Meas. Temp	.29 @ 48
Rmc @ Meas. Temp	.51 @ 48
Source of Rmf / Rmc	Charts
Rm @ BHT	.16 @ 111
Operating Rig Time	3 Hours
Max Rec. Temp. F	111
Equipment Number	17
Location	Hays
Recorded By	D. Martin
Witnessed By	Tom Denning

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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

Thank you for using Log-Tech, Inc.  
 (785) 625-3858  
 Gorham, KS  
 Interstate Exit, 3 1/2 S, 1/2 W, S Into



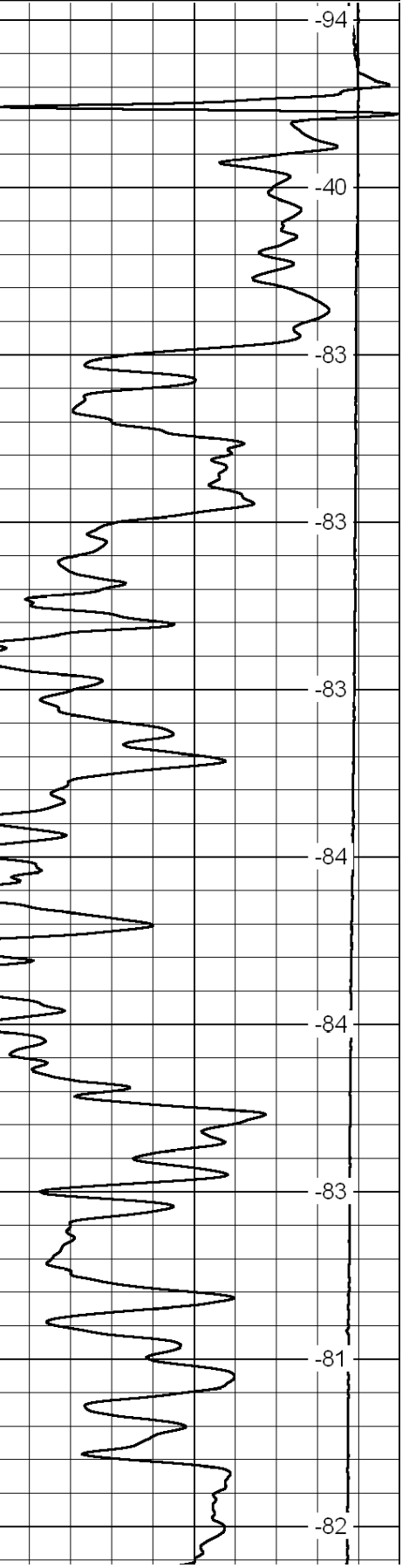
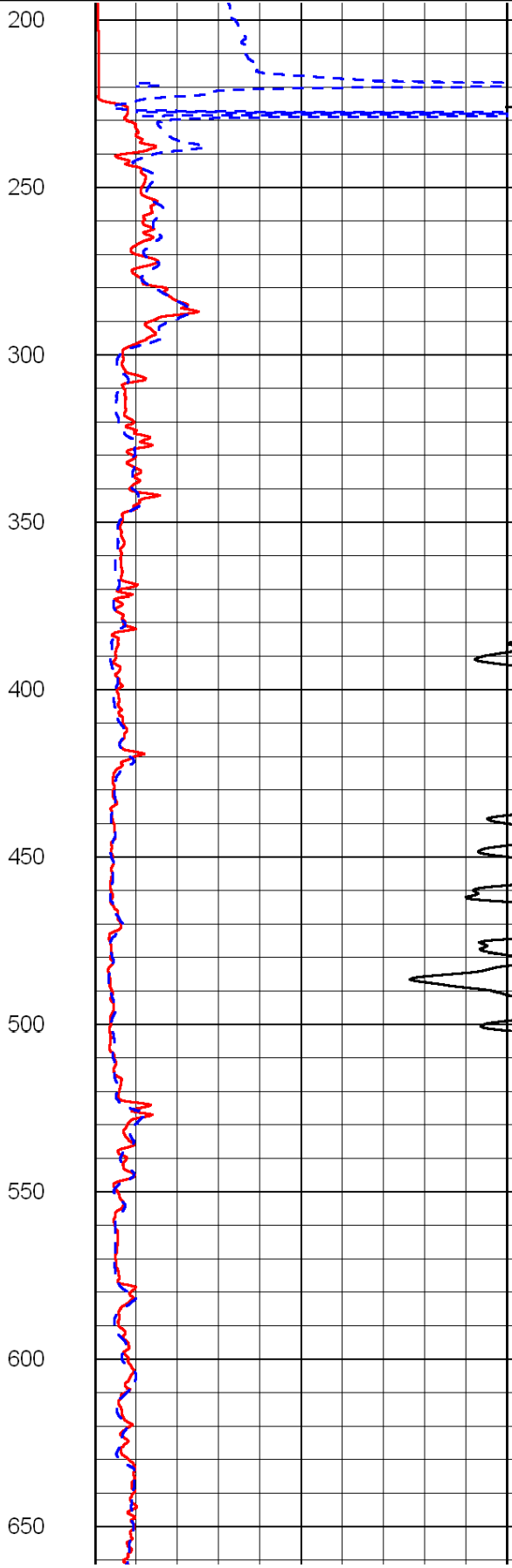
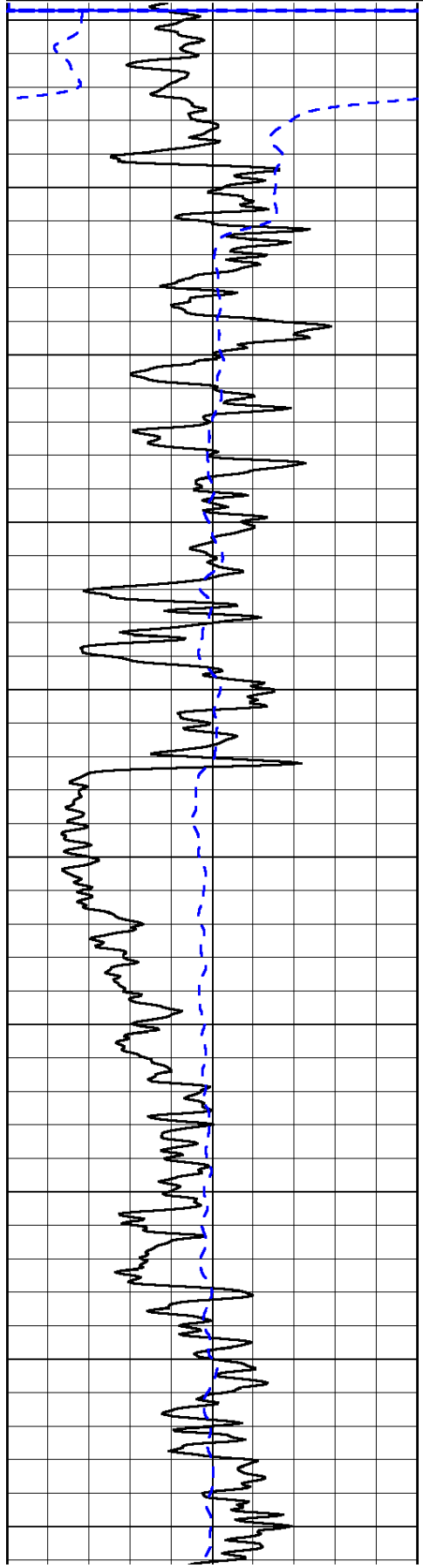
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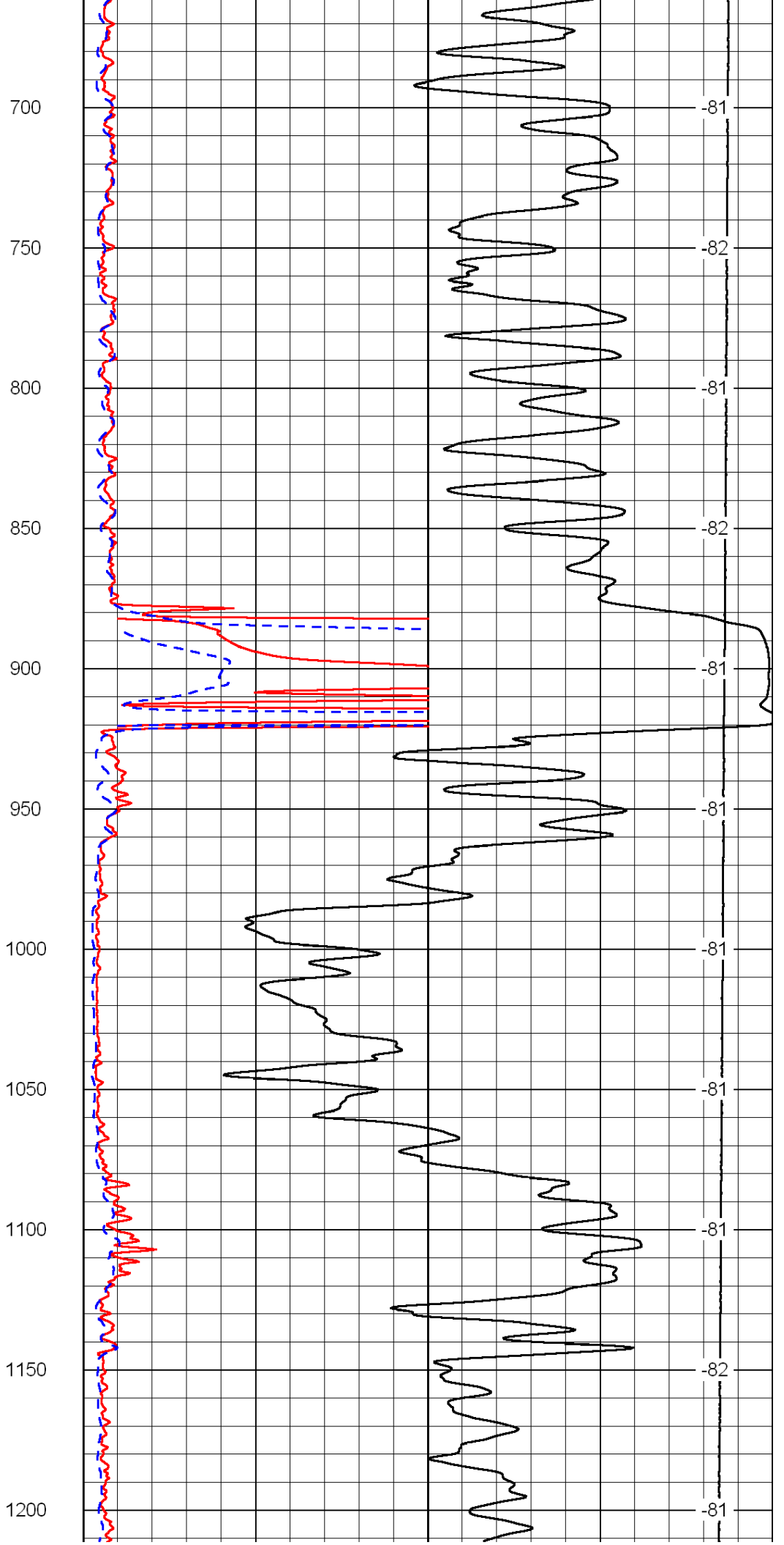
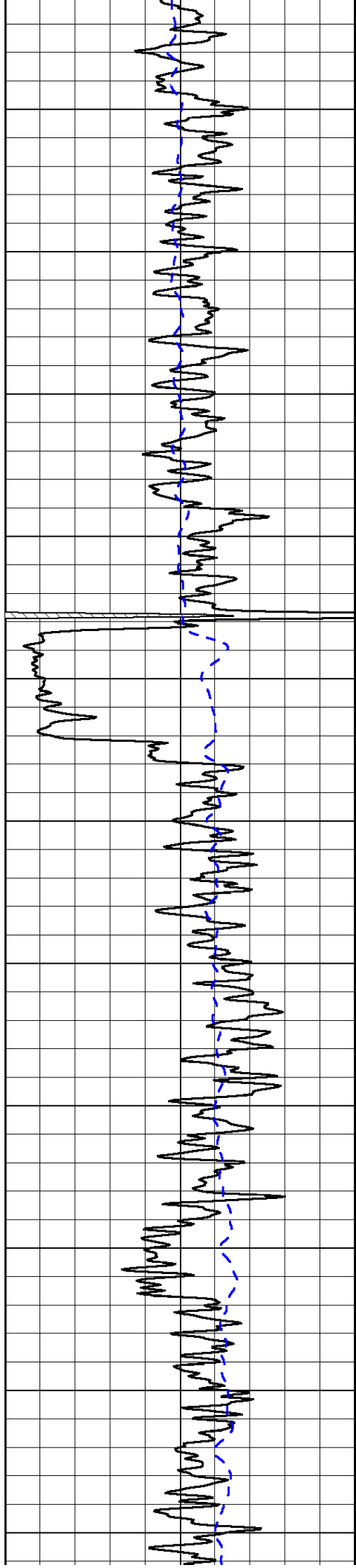
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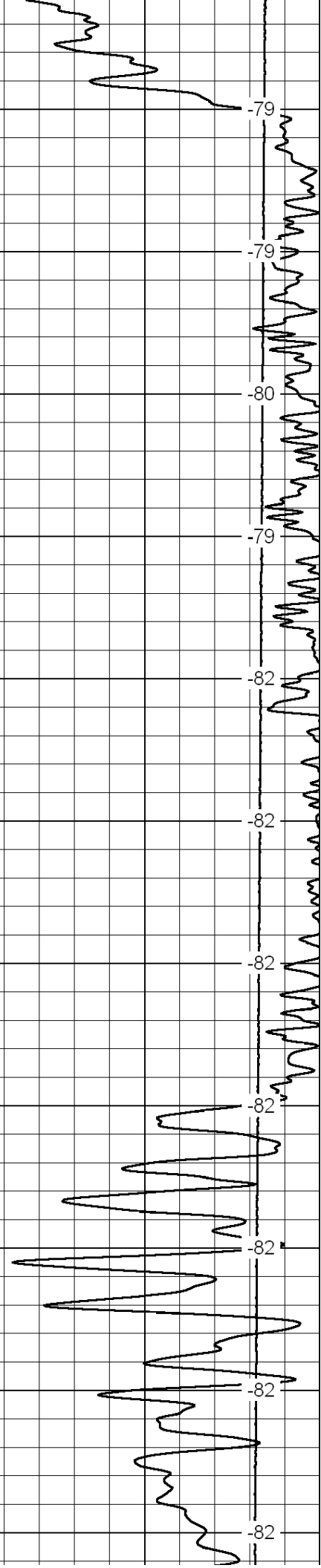
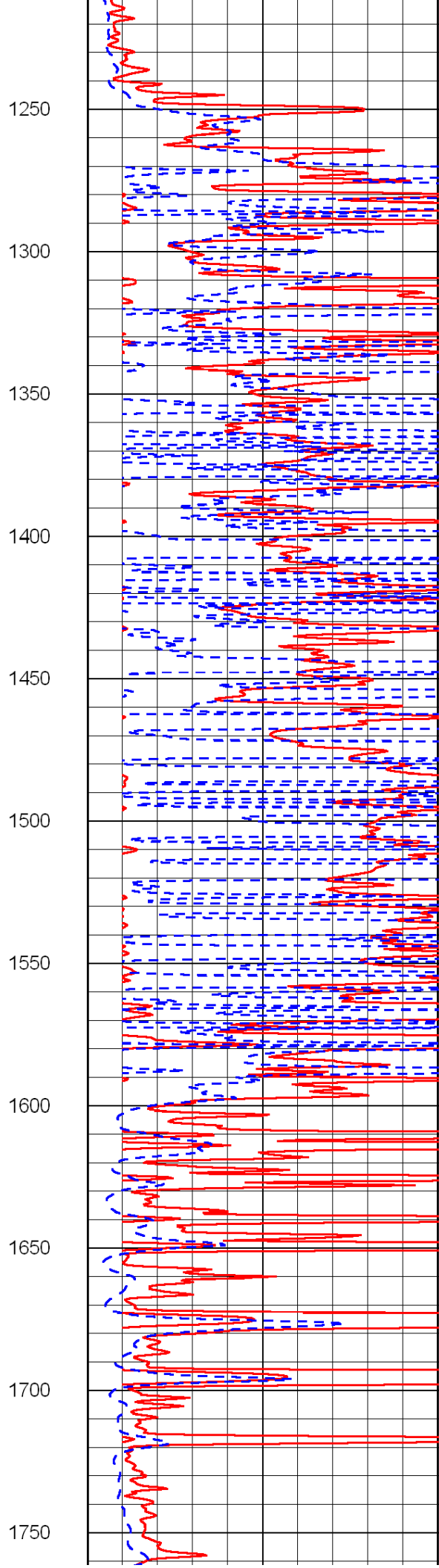
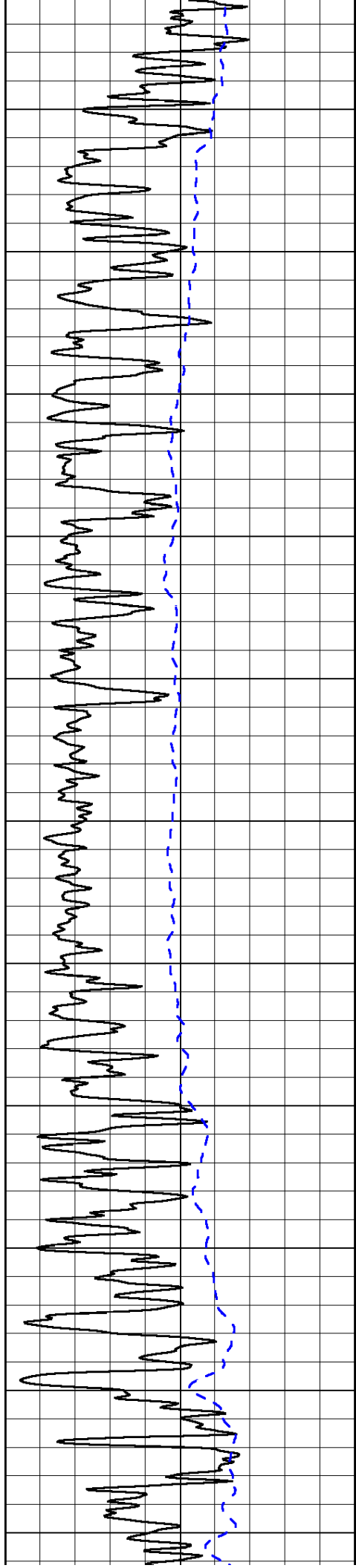
LSPD

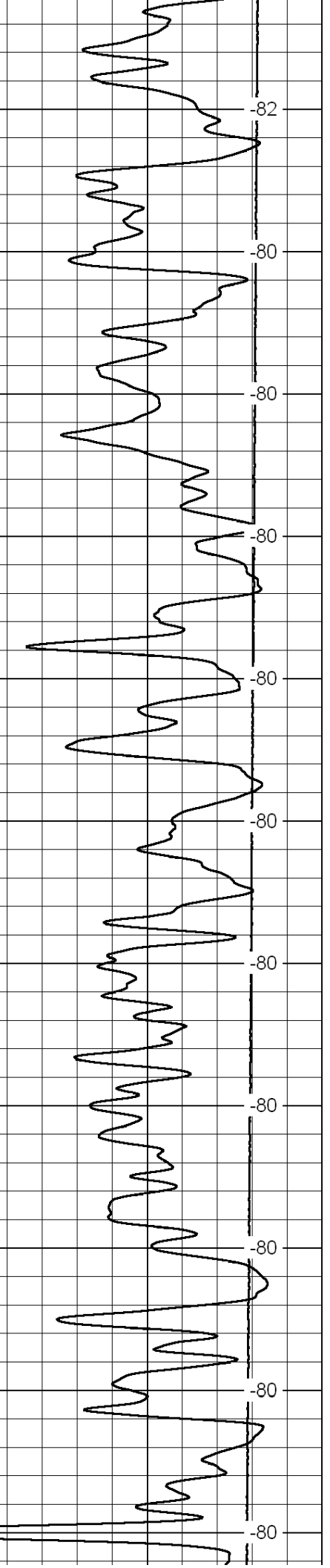
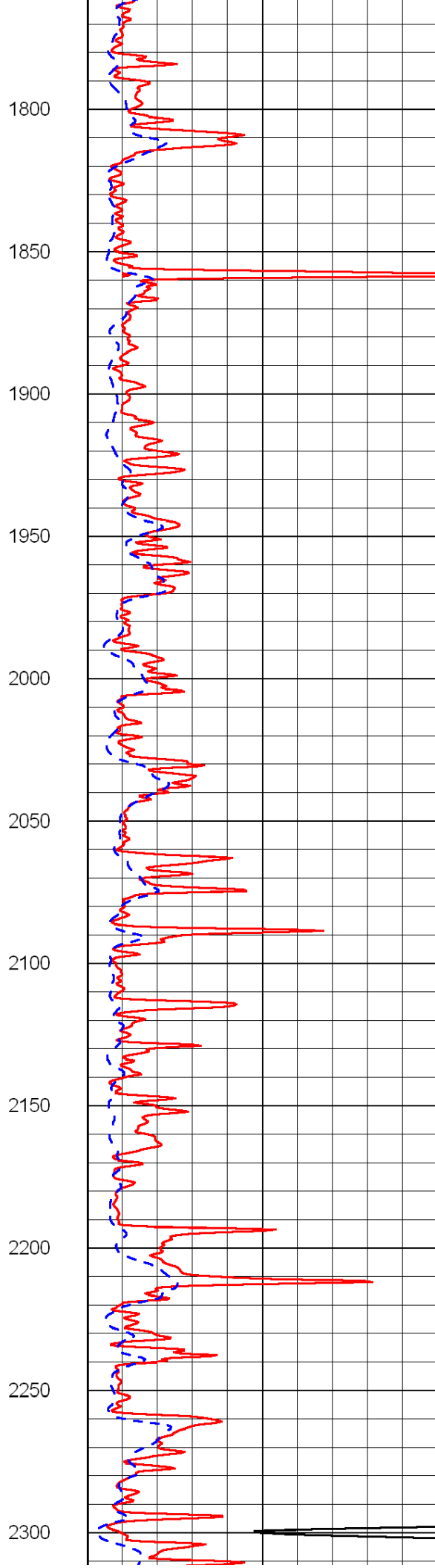
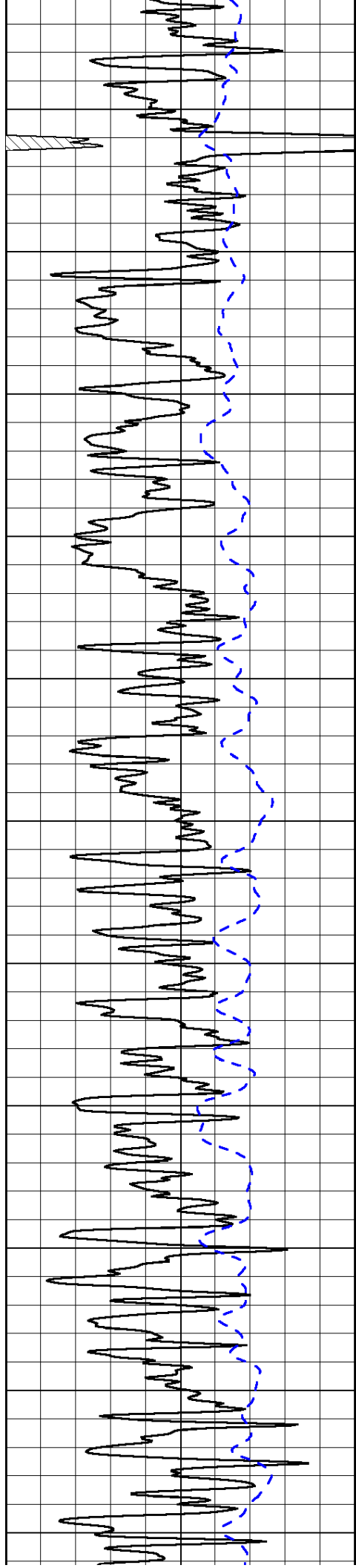
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15000	Line Tension	0

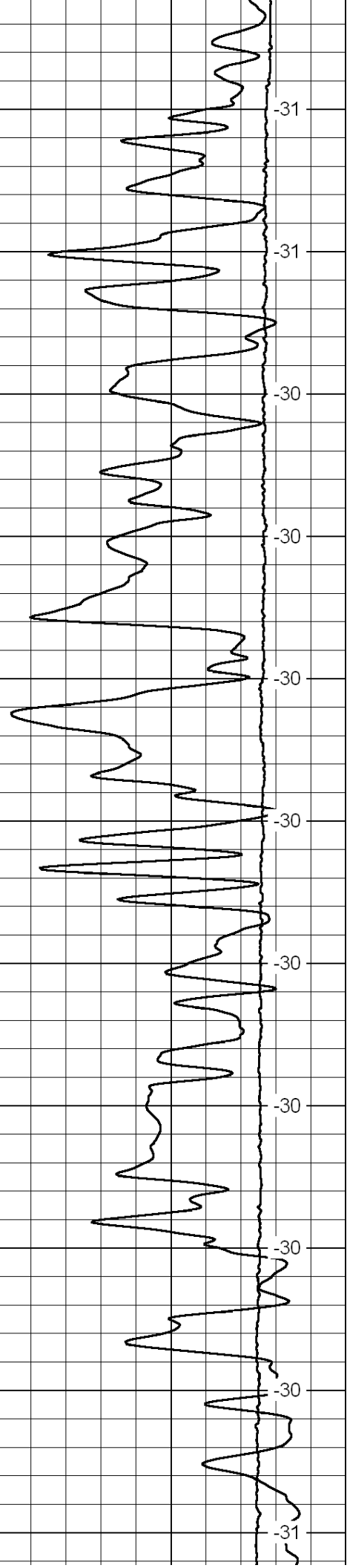
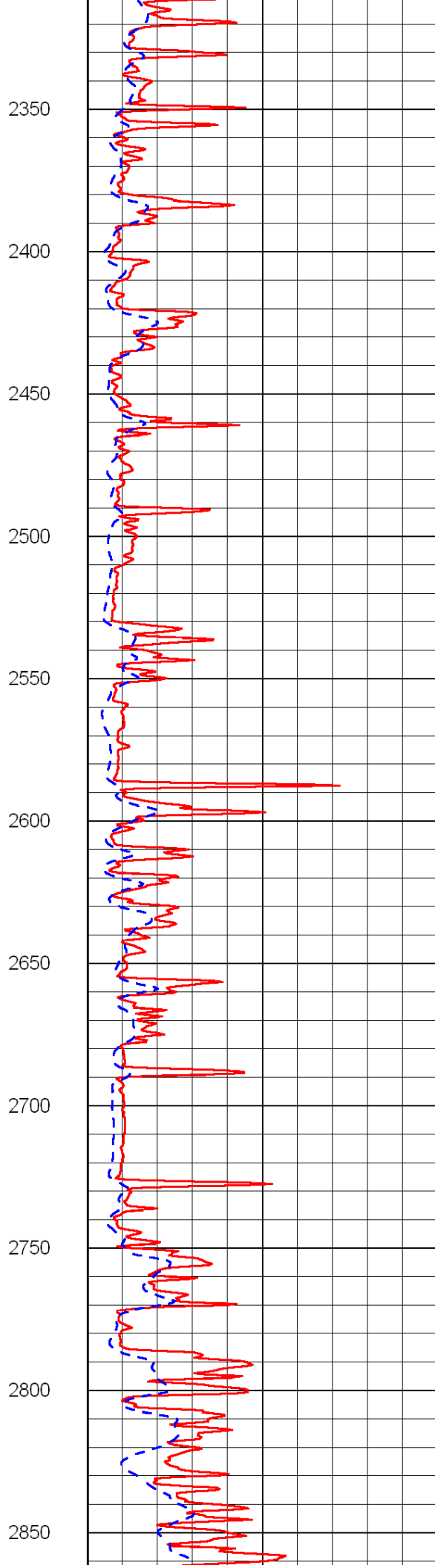
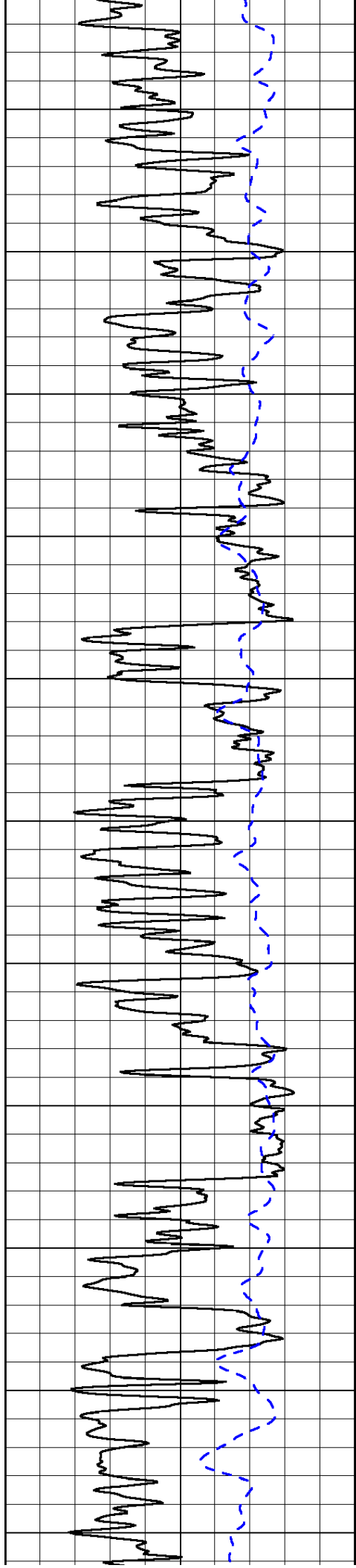
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50	Deep Resistivity	500

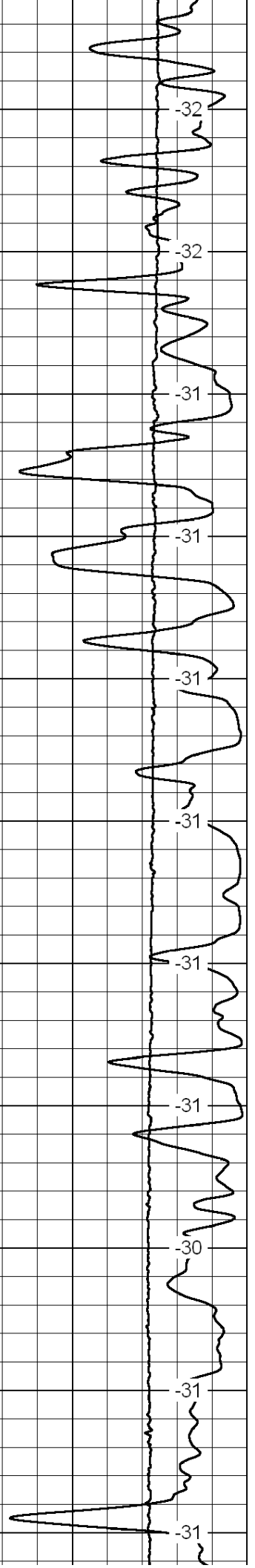
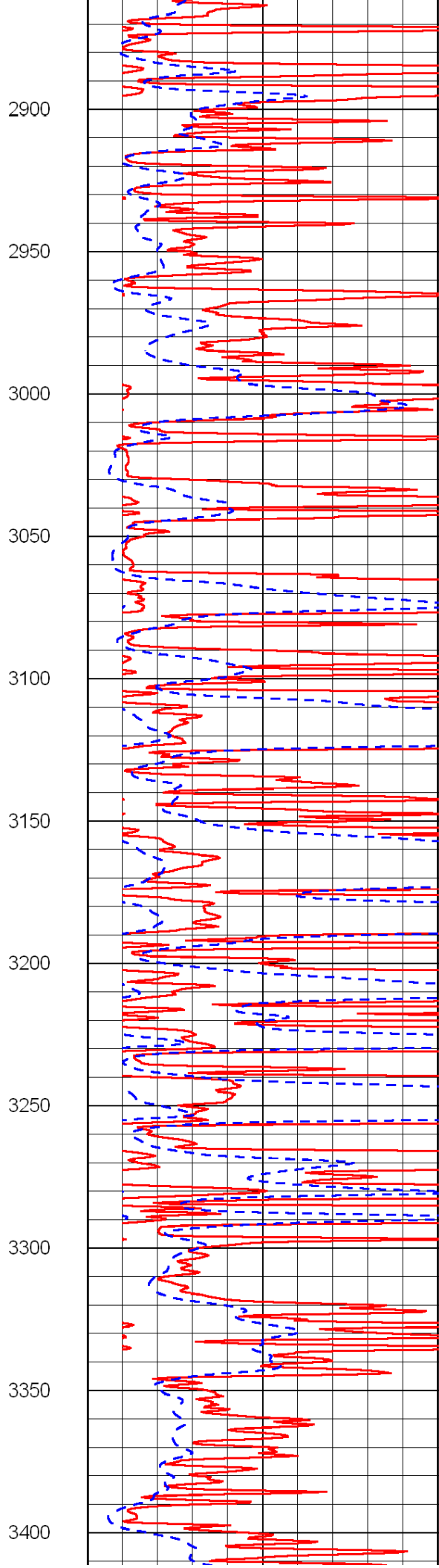
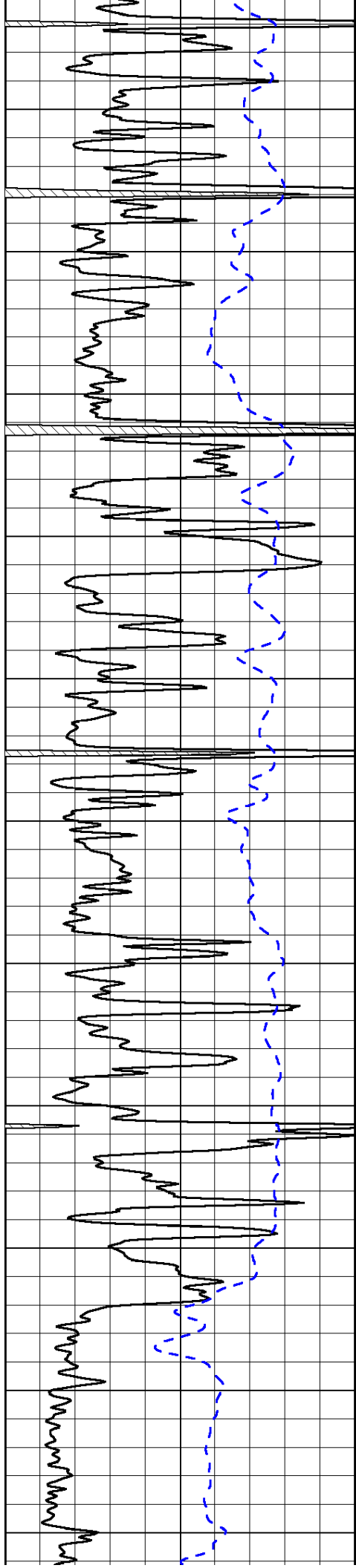


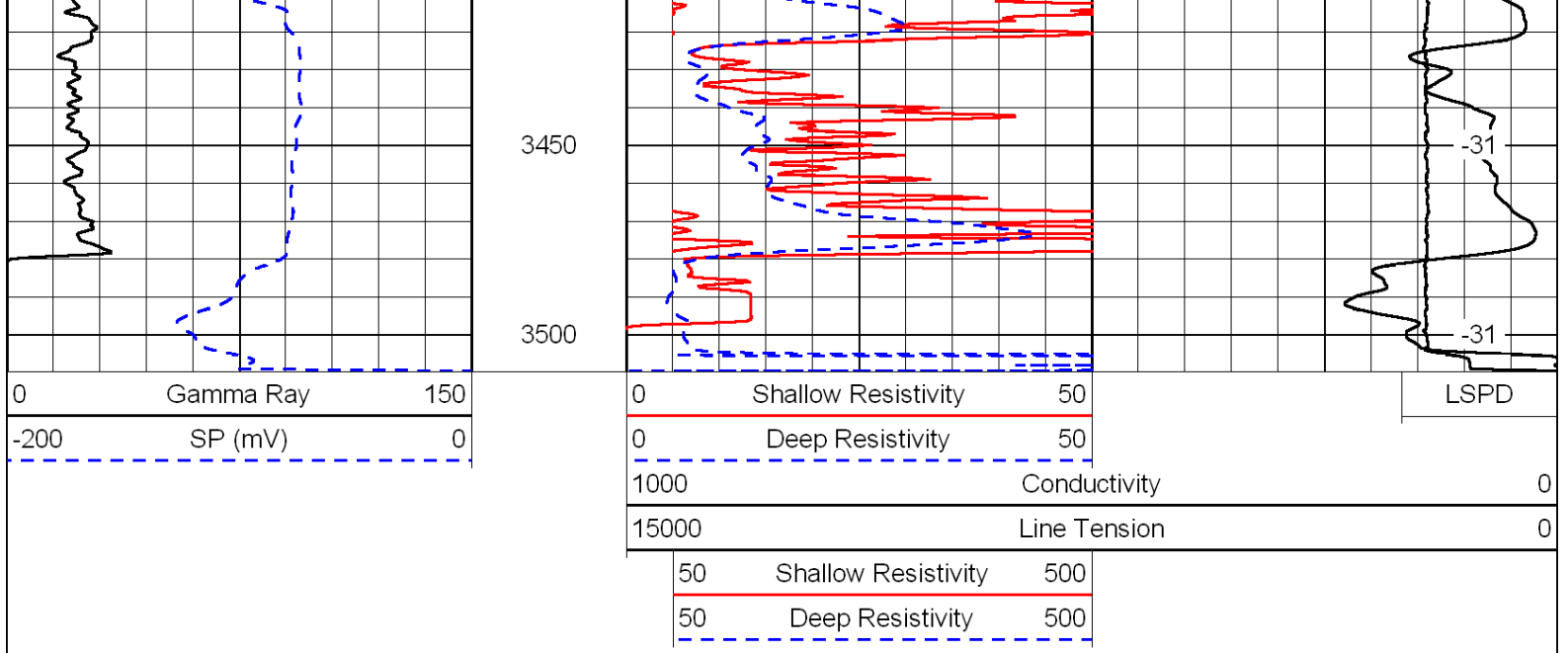




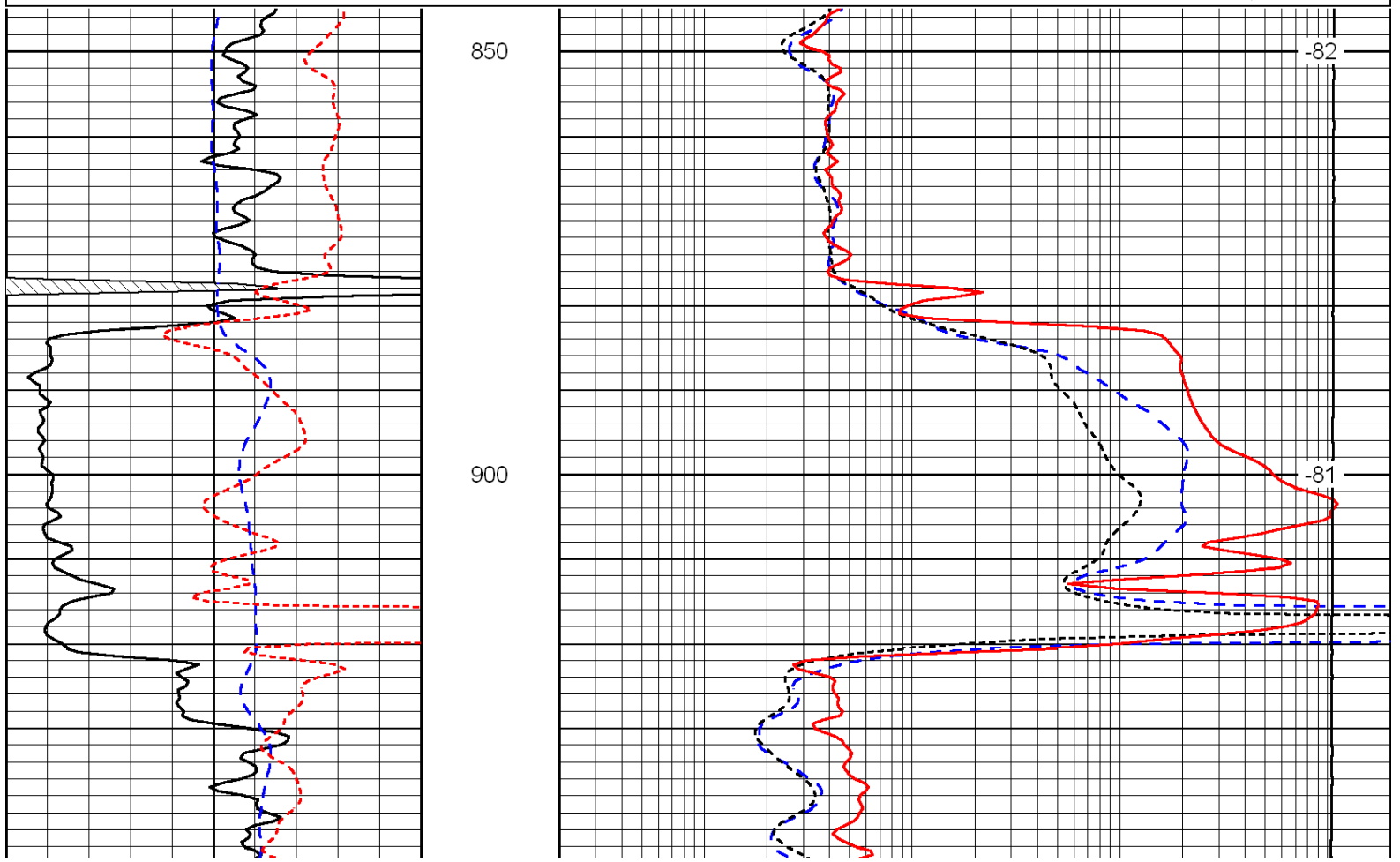
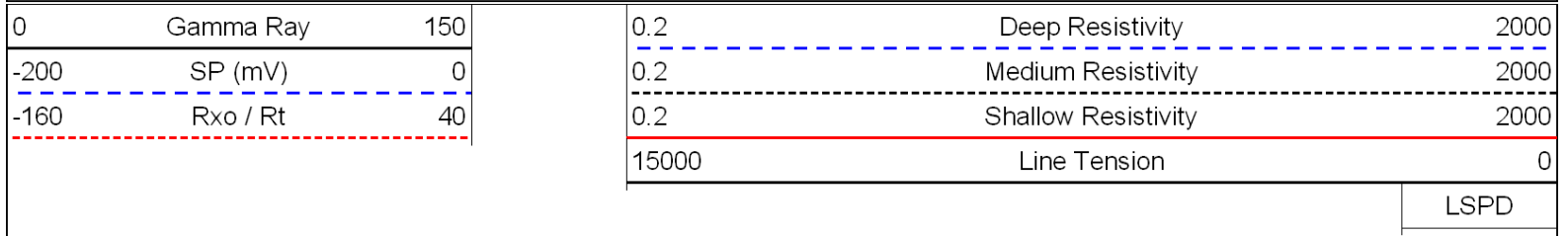


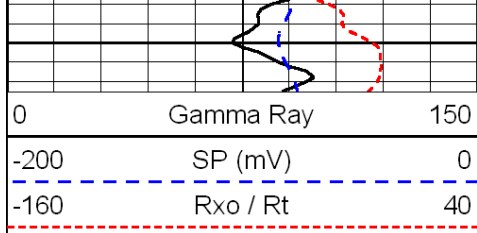




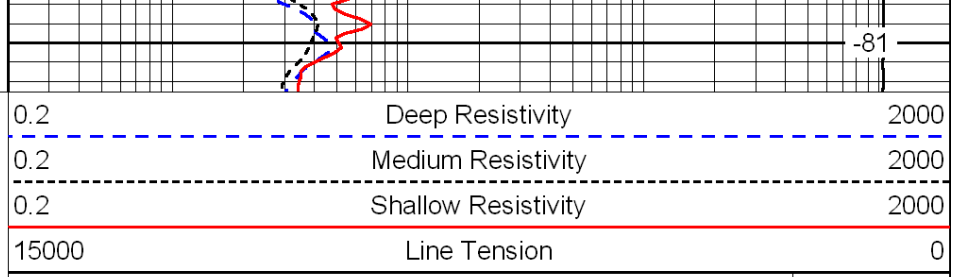


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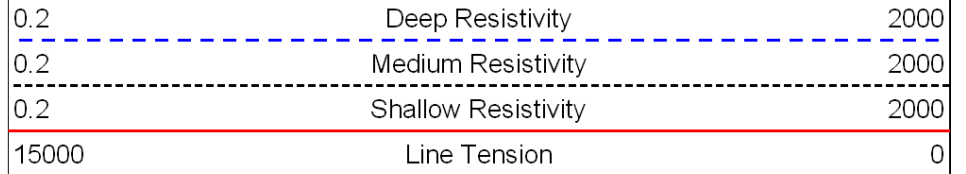
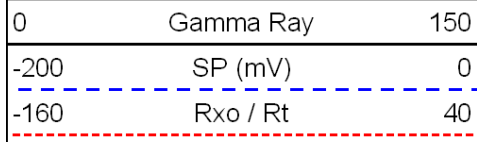
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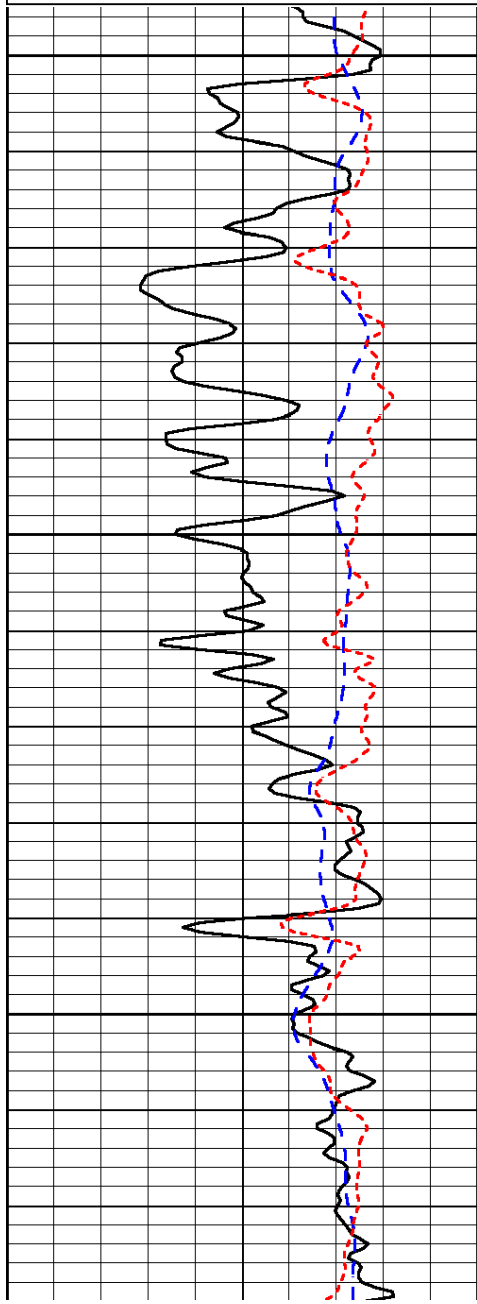
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LSPD

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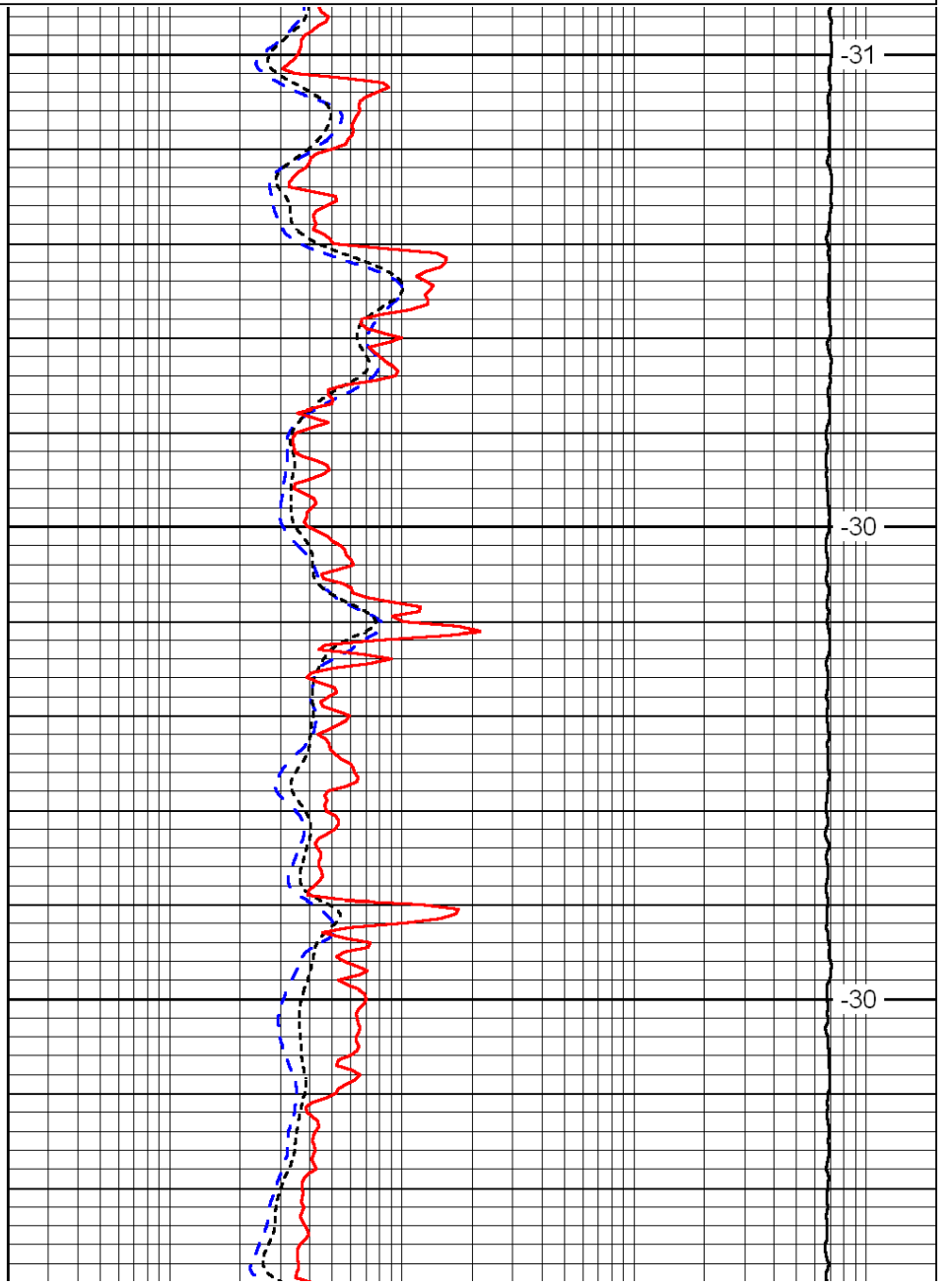
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2400

2450

2500

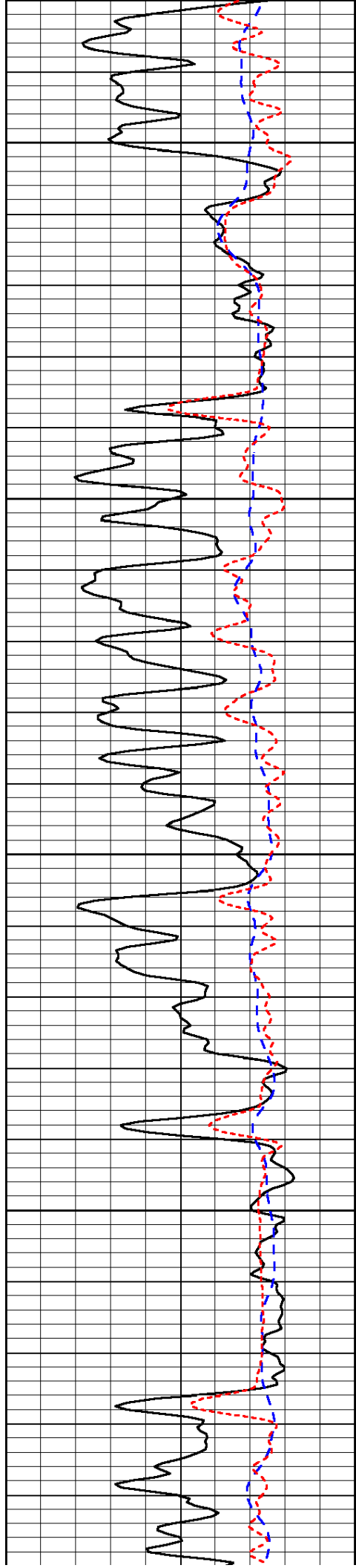


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-30

-30





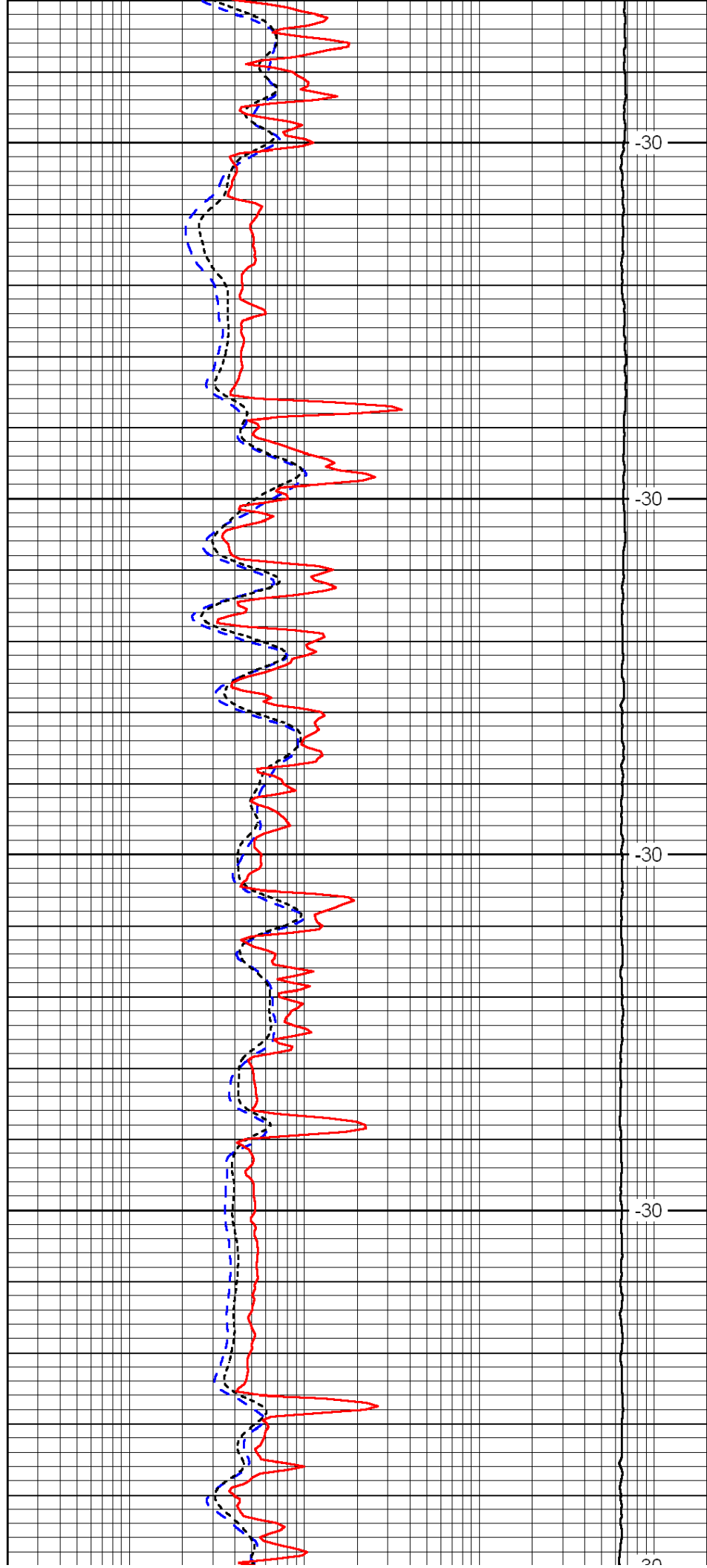
2550

2600

2650

2700

2750



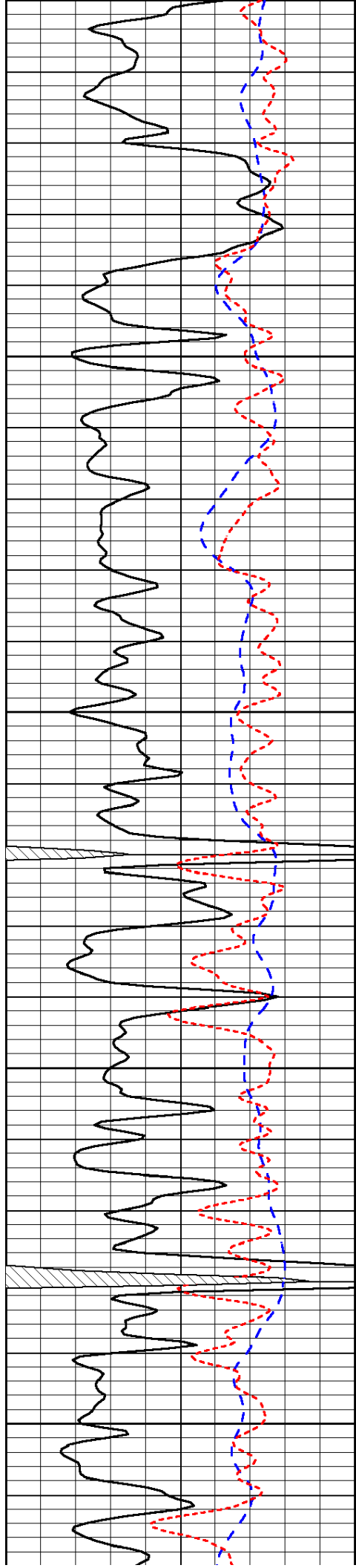
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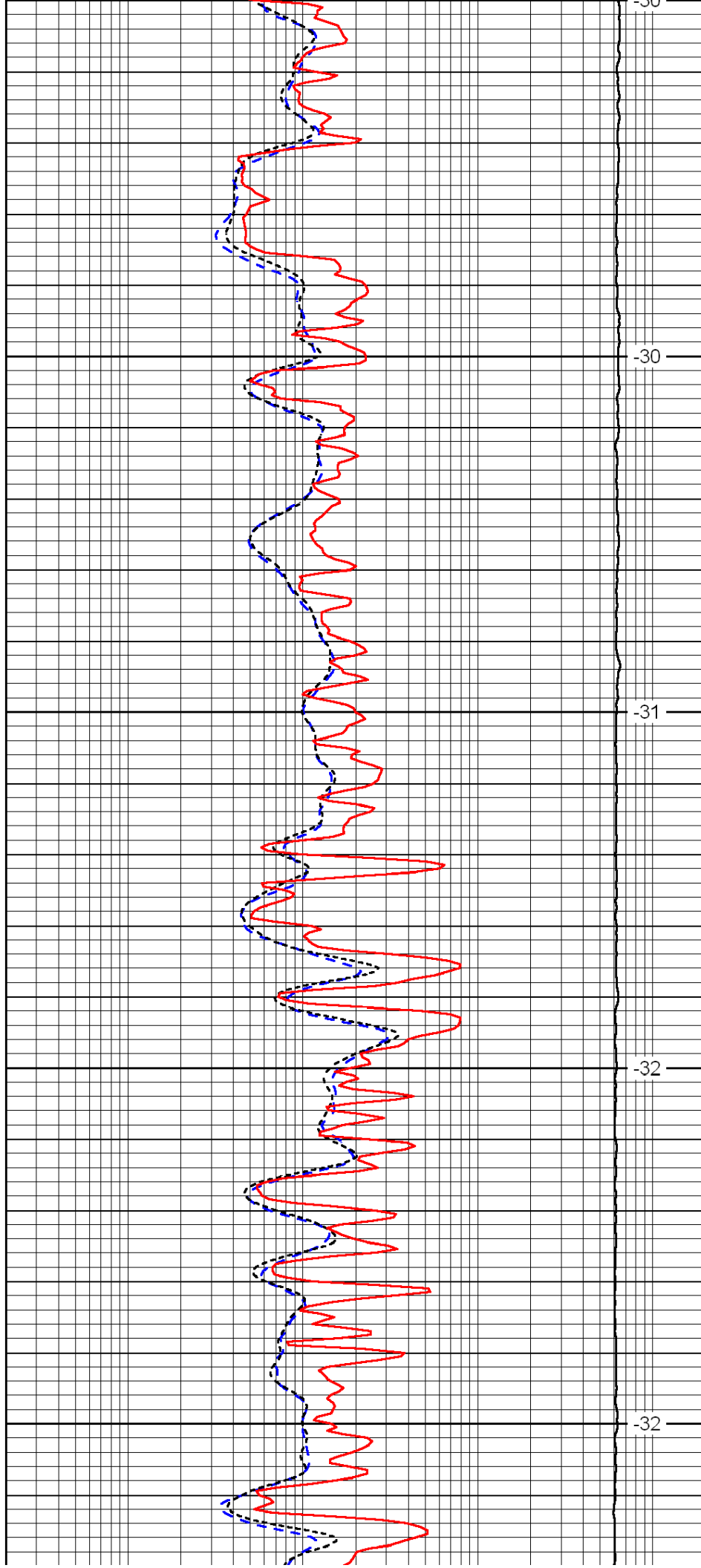
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2800

2850

2900

2950



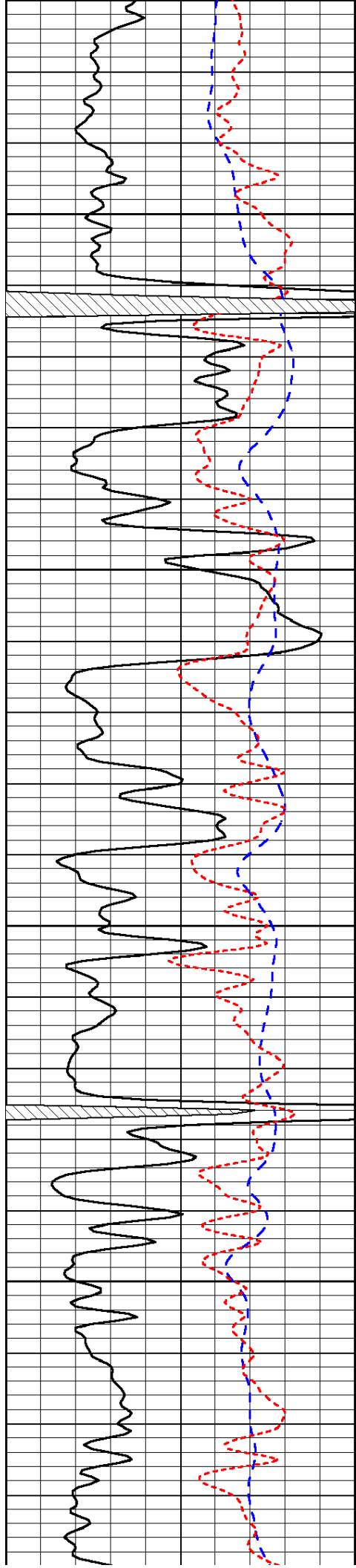
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2800

2850

2900

2950

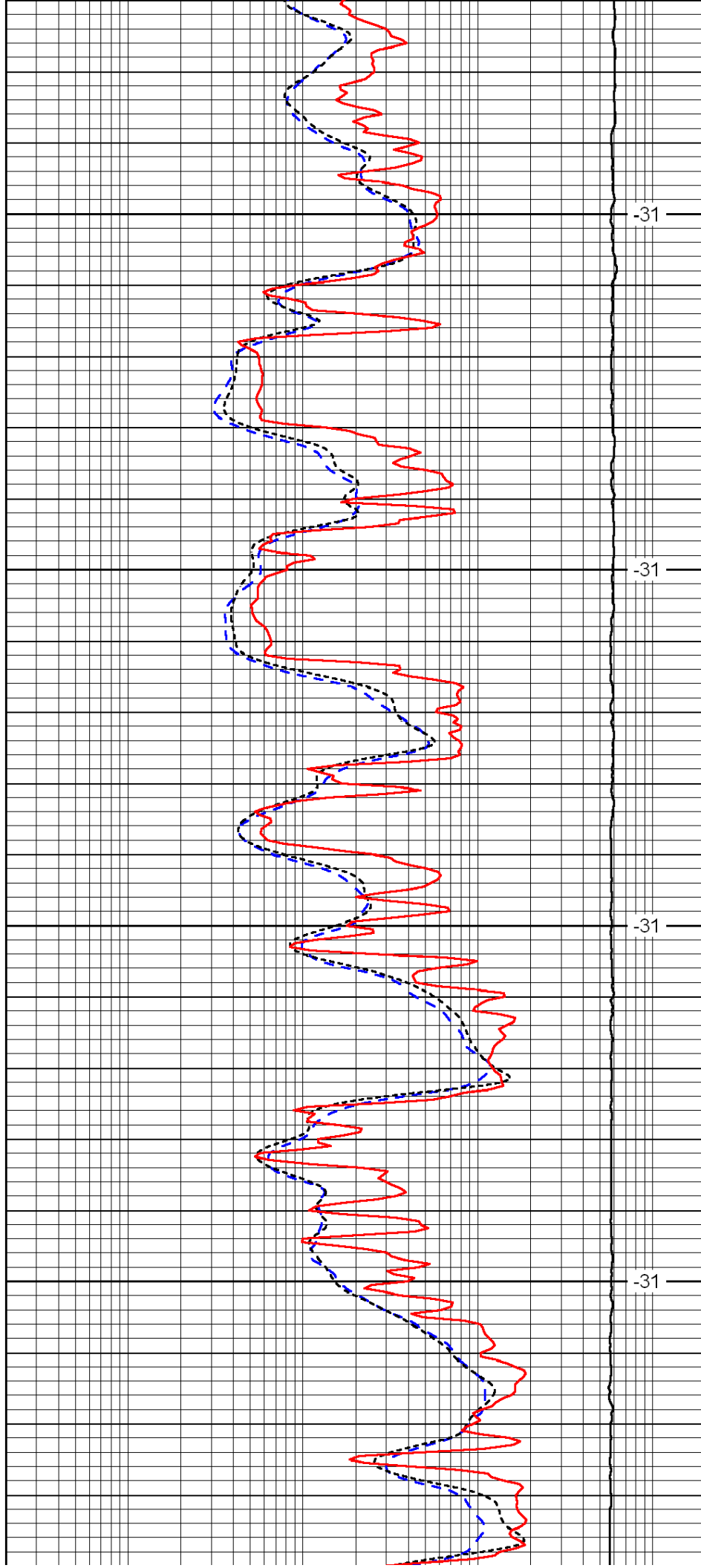


3000

3050

3100

3150

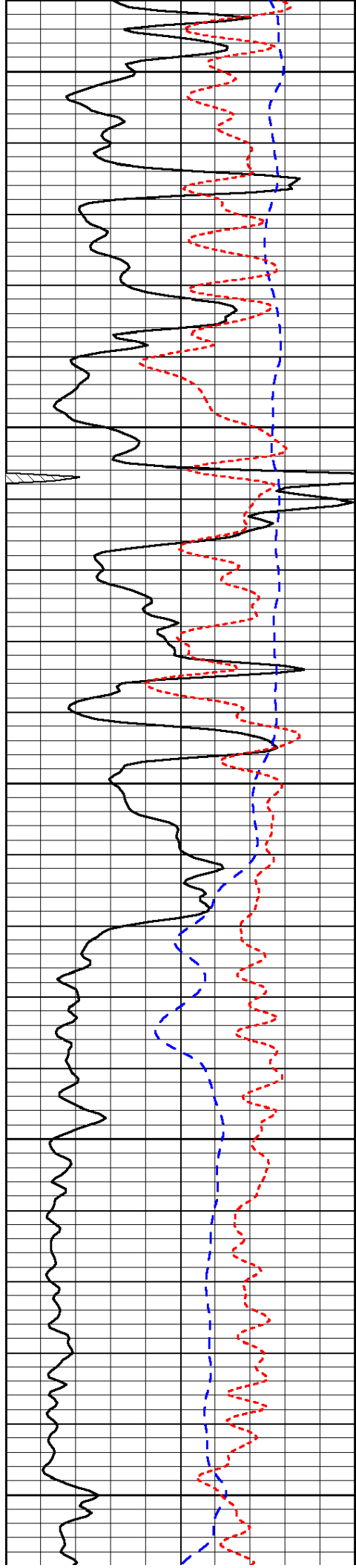


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-31



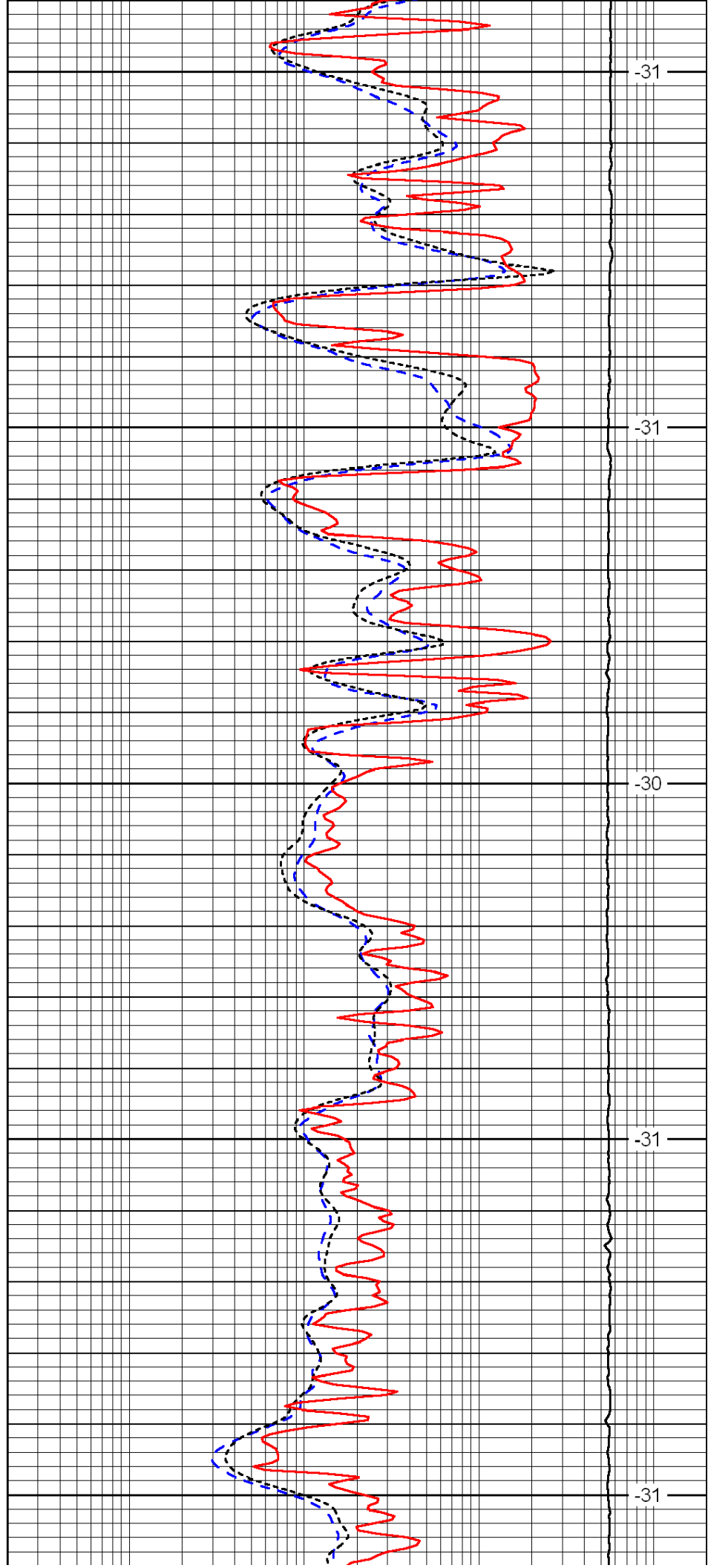
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3250

3300

3350

3400



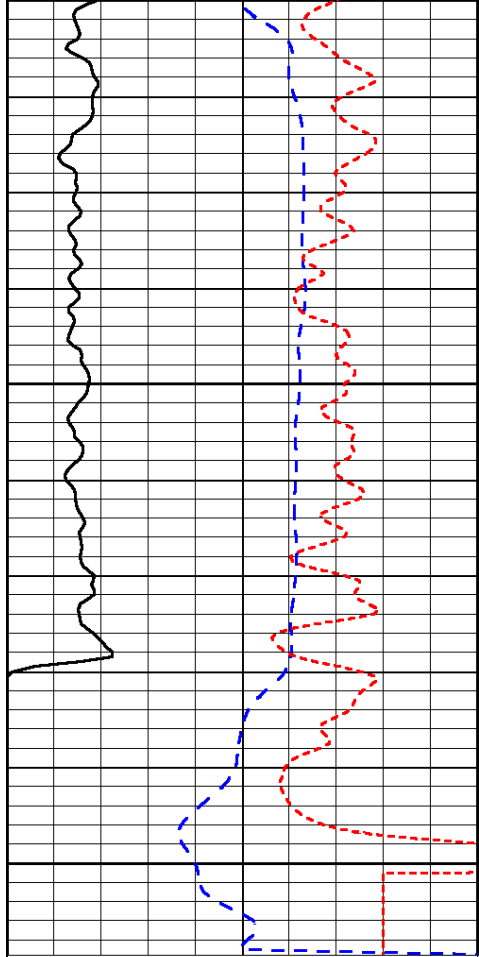
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-30

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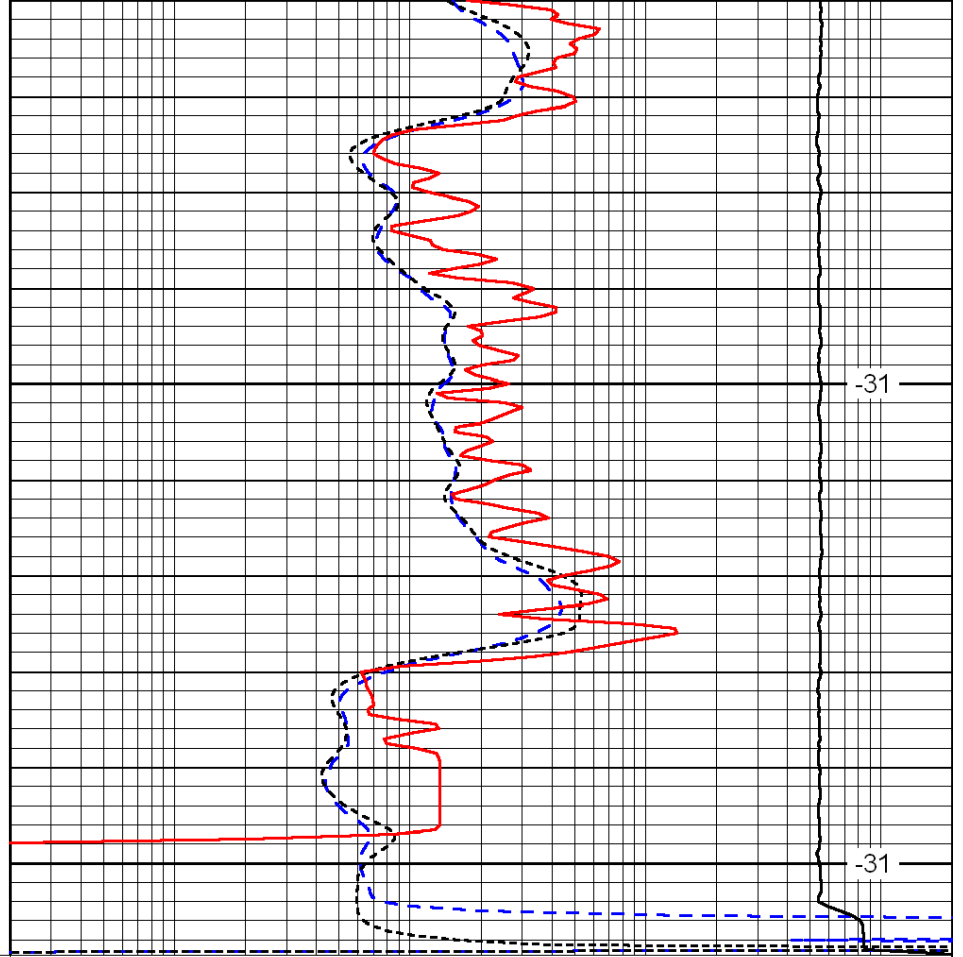
-31



0	Gamma Ray	150
-200	SP (mV)	0
-160	Rxo / Rt	40

3450

3500



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

-31

-31

LSPD



DIGITAL LOG (785) 625-3858

Dual Compensated Porosity Log

15-67-23,757-00-00

API No. 15-67-23,757-00-00

Company TDI, Inc  
 Well Schrant No. 1  
 Field Aley West  
 County Russell State Kansas

Location NW SE NE NE  
 950' FNL & 425' FEL

Sec: 30 Twp: 14 S Rge: 15 W

Other Services  
 DIL

Permanent Datum Ground Level Elevation 1822  
 Log Measured From Kelly Bushing 10 Ft. Above Perm. Datum  
 Drilling Measured From Kelly Bushing

Elevation  
 K.B. 1832  
 D.F. 1822  
 G.L. 1822

Date 12/12/2011

Run Number One

Type Log CNL / CDL

Depth Driller 3500

Depth Logger 3504

Bottom Logged Interval 3493

Top Logged Interval 2400

Type Fluid In Hole Chemical

Salinity, PPM CL 6700

Density 9.4

Level Full

Max. Rec. Temp. F 111

Operating Rig Time 3 Hours

Equipment -- Location 17 Days

Recorded By D. Martin

Witnessed By Tom Denning

Herb Deines

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	223	8.625	24#	00	223
2	7.875	223	3500				

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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

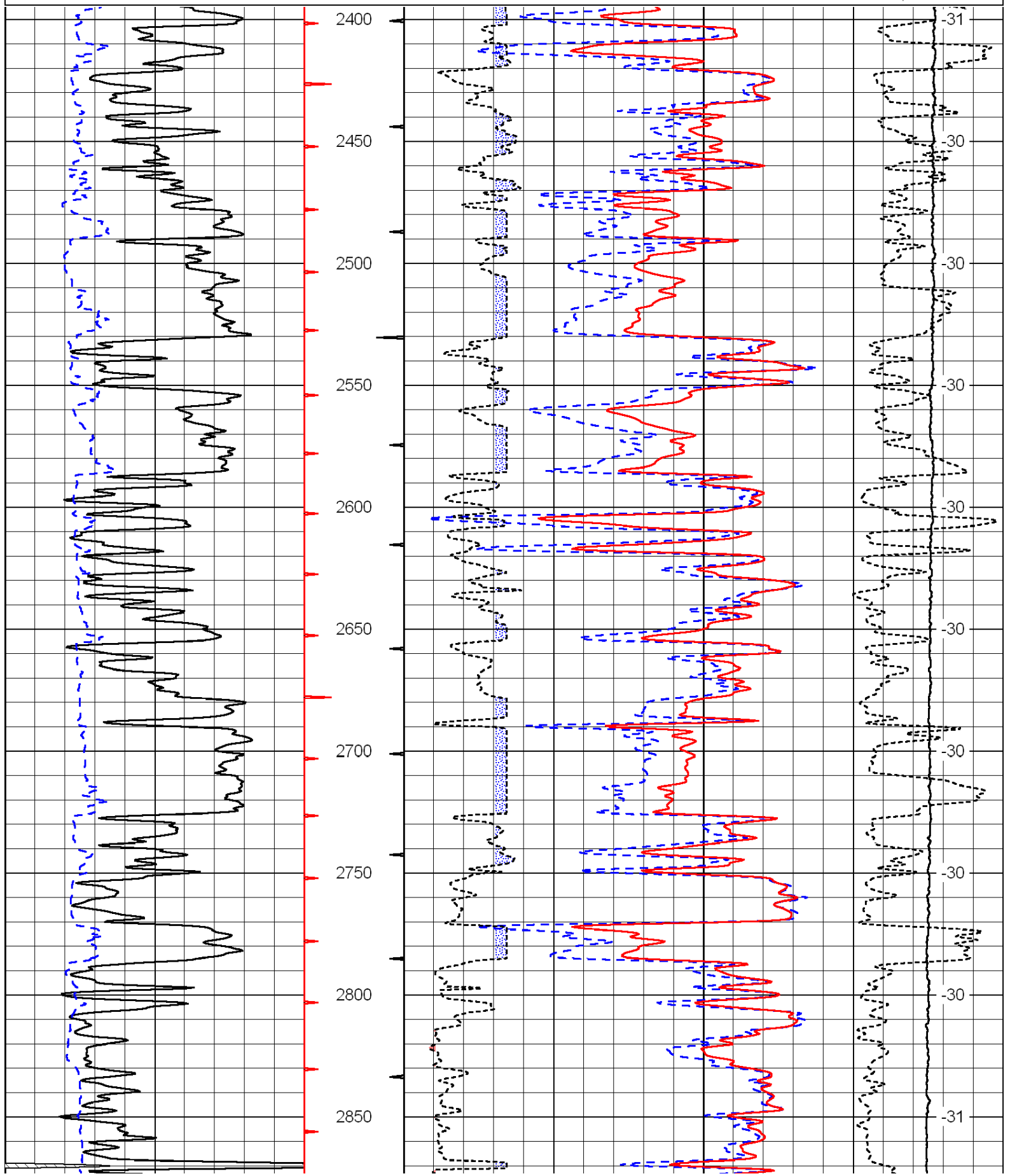
Thank you for using Log-Tech, Inc.  
 (785) 625-3858

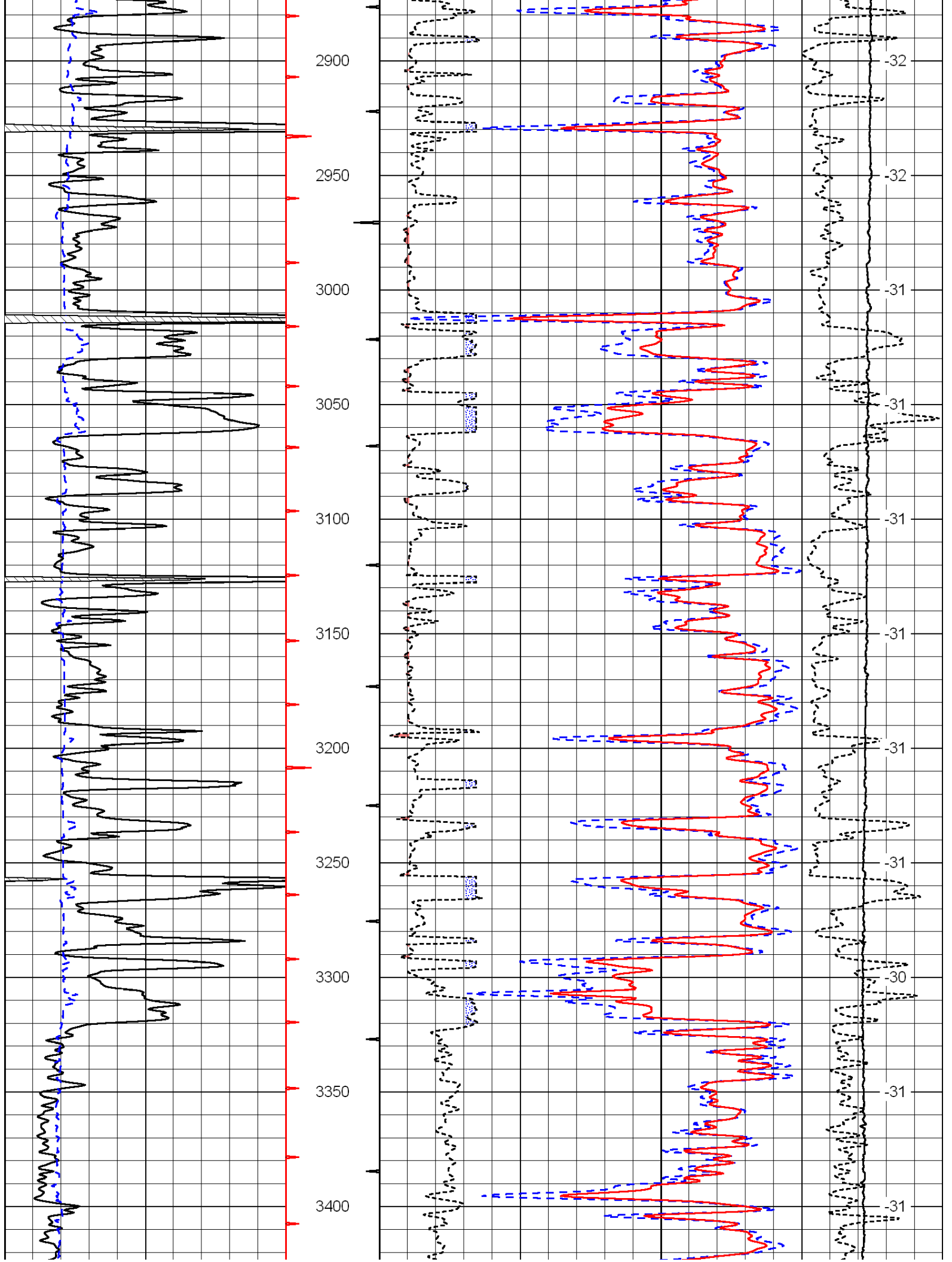
Gorham, KS  
 Interstate Exit, 3 1/2 S, 1/2 W, S Into

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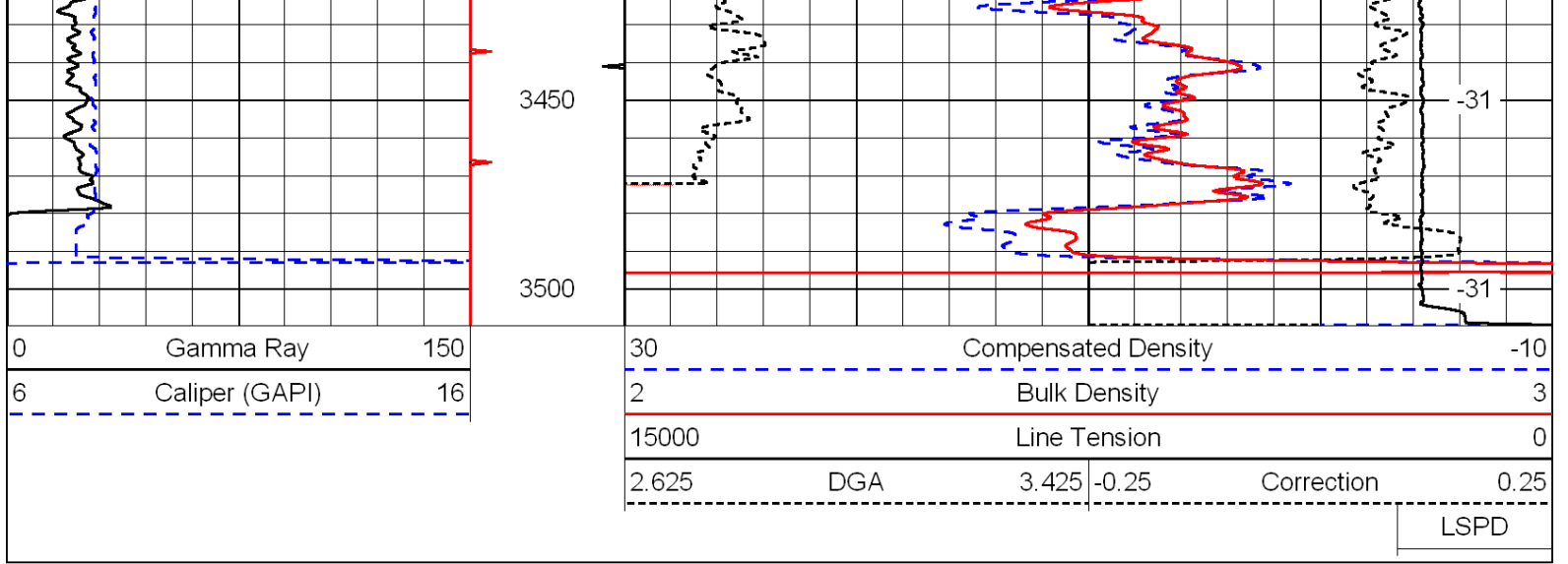
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6	Caliper (GAPI)	16

30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			









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