



KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1045924

Form ACO-1

June 2009

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
- ☐ Conv. to GSW
- ☐ Plug Back: _____ Plug Back Total Depth _____
- ☐ Commingled Permit #: _____
- ☐ Dual Completion Permit #: _____
- ☐ SWD Permit #: _____
- ☐ ENHR Permit #: _____
- ☐ GSW Permit #: _____

Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

☐ Letter of Confidentiality Received

Date: _____

☐ Confidential Release Date: _____

☐ Wireline Log Received

☐ Geologist Report Received

☐ UIC Distribution

ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____



1045924

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

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

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☐ No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey ☐ Yes ☐ No Cores Taken ☐ Yes ☐ No Electric Log Run ☐ Yes ☐ No Electric Log Submitted Electronically ☐ Yes ☐ No <i>(If no, Submit Copy)</i> List All E. Logs Run:	☐ Log Formation (Top), Depth and Datum ☐ Sample Name Top Datum
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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

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				

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

TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run: ☐ Yes ☐ No
Date of First, Resumed Production, SWD or ENHR.			Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other <i>(Explain)</i> _____		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> ☐ Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Stormont 2-27
Doc ID	1045924

Tops

Name	Top	Datum
Anhydrite	2103	+672
Base Anhydrite	2131	+644
Heebner Shale	3982	-1207
Lansing-Kansas City	4023	-1248
Stark Shale	4304	-1529
Base Kansas City	4382	-1607
Altamont	4424	-1649
Pawnee	4508	-1733
Fort Scott	4554	-1779
Cherokee	4576	-1801
Cherokee Sand	4636	-1861
Mississippian	4657	-1882



*Mark Parkinson, Governor
Thomas E. Wright, Chairman
Joseph F. Harkins, Commissioner
Ward Loyd, Commissioner*

October 22, 2010

Thomas Larson
Larson Engineering, Inc. dba Larson Operating
Company
562 W STATE RD 4
OLMITZ, KS 67564-8561

Re: ACO1
API 15-101-22244-00-00
Stormont 2-27
SW/4 Sec.27-19S-28W
Lane 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,
Thomas Larson

Robert C. Lewellyn

Consulting Petroleum Geologist

P. O. Box 375
Kechi, KS 67067-0609
Office 316-744-2567
Cell 316-518-0495
robblewellyn@yahoo.com

GEOLOGICAL REPORT

Larson Engineering, Inc.

Stormont No. 2-27
580' FSL & 2222' FWL Sec. 27-19S-28W
Lane County, Kansas

CONTRACTOR:	H D Drilling, LLC, Rig 3
SPUDDED:	June 24, 2010
DRILLING COMPLETED:	July 07, 2010
SURFACE CASING:	8 5/8" @ 259 KBM/175 sx,
ELECTRIC LOGS:	Log-Tech DIL CNL/CDL MEL
ELEVATIONS:	2775 KB 2768 GL

FORMATION TOPS (Electric Log):

Anhydrite	2103 (+ 672)
Base Anhydrite	2131 (+ 644)
Heebner Shale	3982 (-1207)
Lansing-Kansas City Group	4023 (-1248)
Muncie Creek Shale	4204 (-1429)
Stark Shale	4304 (-1529)
Hushpuckney shale	4342 (-1567)
Base Kansas City	4382 (-1607)
Altamont	4424 (-1649)
Pawnee	4508 (-1733)
Myrick Station	4528 (-1753)
Fort Scott	4554 (-1779)
Cherokee	4576 (-1801)
Cherokee Sand	4636 (-1861)
Detrital	4648 (-1873)
Mississippian	4657 (-1882)
Electric Log Total Depth	4702 (-1927)

Samples were examined microscopically from 3800 to Rotary Total Depth. Samples were examined wet and dry and samples from potentially productive zones were viewed under a fluoroscope and checked for oil cut. Following is a description of zones of interest, Drill Stem Tests, etc. For a complete lithologic description of all formations, refer to the sample log in the back pages of this report.

Lansing-Kansas City Zones:

4033-4041 (A Zone)

Limestone, buff, dense to finely crystalline, some cream chalky, poor to fair intercrystalline porosity, some small vug porosity, no show of oil.

4066-4087 (B Zone)

Limestone, buff to tan, dense to finely crystalline, some very poor intercrystalline porosity, no show of oil, some white chert, fresh, opaque.

4085-4108 (C/D Zone)

Limestone, cream to buff, dense to finely crystalline with much chalk, zone is mostly tight with no show of oil, some scattered white to light gray chert.

4114-4120 (E Zone)

Limestone, cream to buff, some gray, finely crystalline and chalky, slightly fossiliferous, zone is mostly tight with no shows of oil.

4129-4146 (F Zone)

Limestone, cream to buff, some tan to mottled, dense to finely crystalline, oolitic in part, slightly fossiliferous, chalky in part, zone is mostly tight with no show of oil, trace of chert, white, fresh, opaque.

4148-4170 (G Zone)

Limestone, buff to tan, finely crystalline and oolitic, partly chalky, good ooliticastic porosity, no show of oil. Much chalk in lower portion with scattered chert, light grey, opaque, fresh.

4214-4240 (H Zone)

Limestone, cream to buff, some tan to brown, dense to finely crystalline and chalky, some partly fossiliferous, trace of poor scattered intercrystalline and interfossil porosity, no show of oil.

4242-4271 (I Zone)

Limestone, cream to buff, some tan, dense to finely crystalline and partly fossiliferous, partly chalky, trace of scattered poor intercrystalline porosity, no show of oil.

4278-4283 (J Zone)

Limestone, buff, some grey, finely crystalline and oolitic, fair ooliticastic and interoolitic porosity, rare trace of poor spotted stain, trace of free oil, faint questionable odor, no fluorescence, no cut, porosity mostly (98%) barren.

4318-4326 (K Zone)

Limestone, buff to tan, some gray, dense to finely crystalline, some medium crystalline and partly oolitic, poor to fair intercrystalline porosity, scattered poor to fair spotted stain, slight to fair show of free oil, faint to fair odor, poor fluorescence, fair cut.

Drill Stem Test No. 1 4303-4320

15-30-45-90; blow built to 6 ½" in first flow, no blowback; blow built to bottom of bucket in 28 minutes of second flow, no blowback; recovered 402 feet of muddy water (90% water, 10% mud). ISIP 702# FSIP 699# IFP 20-89# FFP 91-187# IHP 2163# FHP 2108# BHT 134 degrees.

4333-4339 (K2 Zone)

Limestone, buff to tan to mottled, some brown, dense to finely crystalline and slightly fossiliferous, trace of oolitic, fair scattered intercrystalline porosity, fair spotted stain, fair show of free oil, faint odor, poor fluorescence, fair cut.

Drill Stem Test No. 2 4327-4336

15-30-30-60; blow built to one inch on first flow, no blowback; blow built to ¾" on second flow, no blowback; recovered 100 feet of muddy water (75% water, 25% mud). ISIP 580# FSIP 560# IFP 16-30# FFP 32-55# IHP 2161# FHP 2133# BHT 128 degrees.

4349-4354 (L Zone)

Limestone, buff to tan to mottled, some brown, dense to finely crystalline, some medium crystalline, brittle, fair intercrystalline porosity, poor to fair spotted stain, slight to fair show of free oil, good odor, poor fluorescence, poor cut.

Drill Stem Test No. 3 4342-4354

15-30-15-30; weak surface blow, died in seven minutes of first flow; blow did not return on second flow; recovered one foot of mud. ISIP 17# FSIP 17# IFP 15-16# FFP 16-16# IHP 2184# FHP 2126# BHT 120 degrees.

4354-4364 (L Zone)

Limestone, buff, dense to finely crystalline and mealy, poor to fair intercrystalline porosity with scattered small vug porosity, poor to fair spotted stain, very slight show of free oil, faint odor, poor to fair fluorescence, poor to fair cut.

Drill Stem Test No. 4

4354-4364

15-30-15-30; surface blow died in one minute; blow did not return on second flow; recovered one foot of mud; ISIP 15# FSIP 15# IFP 13-15# FFP 14-15# IHP 2175# FHP 2160# BHT 118 degrees.

4382-4398 (Pleasanton Zone)

The pleasanton section consisted of limestones, buff to tan to brown, mostly dense with scattered finely crystalline, mostly tight with only a trace of very poor intercrystalline porosity, trace of scattered poor spotted stain, no free oil, questionable odor, no fluorescence, and no cut.

4401-4413 (Lenapah Zone)

Limestone, tan to brown, some mottled, dense, some finely crystalline, trace of very poor intercrystalline porosity, one or two pieces with poor spotted stain, no free oil, no odor, no fluorescence, no cut.

4461-4467 (Altamont Zone)

Limestone, cream to buff, some tan, dense to finely crystalline, partly fossiliferous, partly chalky, scattered poor to fair intercrystalline porosity, some scattered vugular porosity, poor to fair spotted stain, slight to fair show of free oil, faint odor, poor fluorescence, fair cut.

Drill Stem Test No. 5

4395-4475

15-30-15-30; weak surface blow, died in five minutes of first flow; blow did not return on second flow; recovered five feet of mud; ISIP 167# FSIP 106# IFP 20-21# FFP 20-22# IHP 2187# FHP 2156# BHT 120 degrees.

4508-4525 (Pawnee Zone)

Limestone, tan to brown, some mottled, dense to finely crystalline, some sub-lithographic, zone is mostly tight with no shows of oil, some scattered buff to tan chert, fresh, opaque.

4528-4549 (Myrick Station Zone)

Limestone, tan to brown, dense to sub-lithographic, some finely crystalline, slightly fossiliferous, zone is mostly tight with rare trace of very poor spotted stain, no free oil, no odor, no fluorescence, no cut.

4554-4576 (Fort Scott Zone)

Limestone, buff to tan to brown, dense to finely crystalline and partly oolitic, some dense-oolitic, some tight oolitic with black oolites, zone is mostly tight with no shows of oil.

4609-4634 (Johnson Zone)

Limestone, buff to tan, some gray, dense to finely crystalline and fossiliferous, partly chalky, some with poor intercrystalline porosity, poor spotted stain, trace of free oil, faint odor, no fluorescence, poor cut.

Drill Stem Test No. 6

4580-4635

15-30-18-30; one-eighth inch blow throughout first flow; blow did not return on second flow; recovered two feet of mud; ISIP 135# FSIP 81# IFP 21-22# FFP 22-23# IHP 2366# FHP 2304# BHT 125 degrees.

4636-4648 (Cherokee Sand Zone)

Sand, buff to light gray, fine grained, subround, well sorted, well cemented to friable, fair intergranular porosity, scattered poor to fair spotted stain, fair show of free oil, fair odor, poor to fair fluorescence, fair cut.

Drill Stem Test No. 7

4620-4655

15-30-15-30; weak surface blow, died in seven minutes of first flow; did not return on second flow; recovered two feet of mud; ISIP 185# FSIP 149# IFP 19-20# FFP 19-20# IHP 2360# FHP 2291# BHT 123 degees.

4648-4657 (Detrital Zone)

Various and varicolored cherts and shales with scattered limestones, zone has no reservoir quality and contains no shows of oil.

4657-4676 (Mississippian Zone)

Limestone, dolomitic, buff to tan, finely crystalline and brittle, flaky, some scattered light gray fresh chert, zone is mostly tight with no shows of oil

4676-4700

Dolomite with scattered dolomitic lime, buff to tan to gray, fine to medium crystalline with scattered poor intercrystalline porosity, no show of oil.

4700

Rotary Total Depth

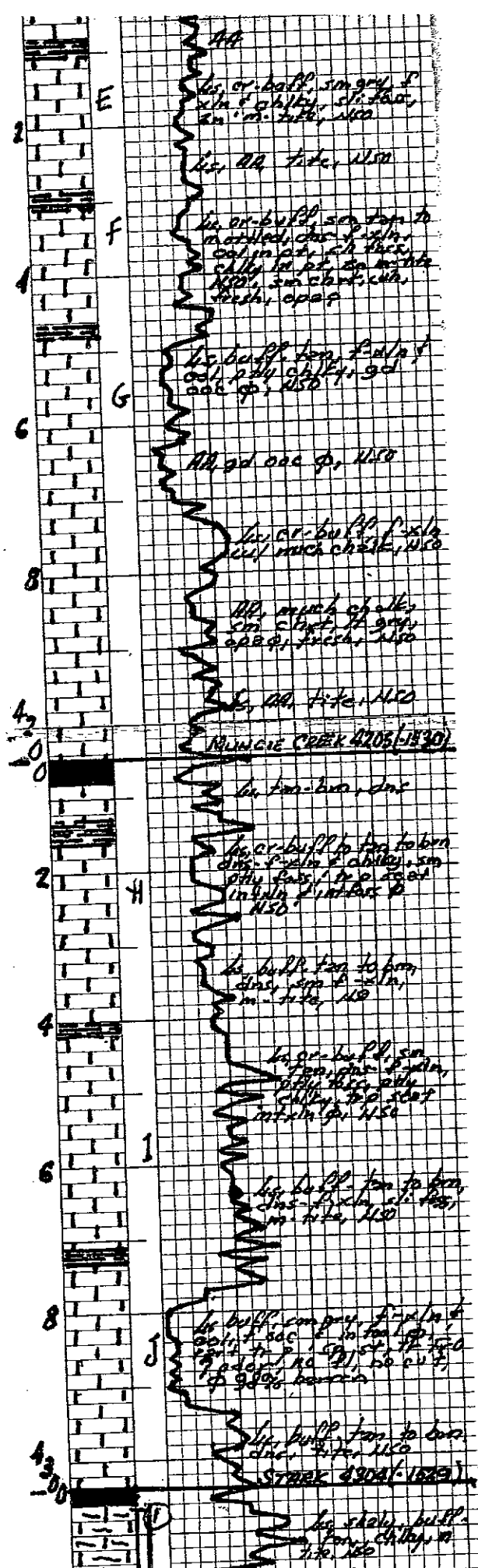
Conclusions and Recommendations:

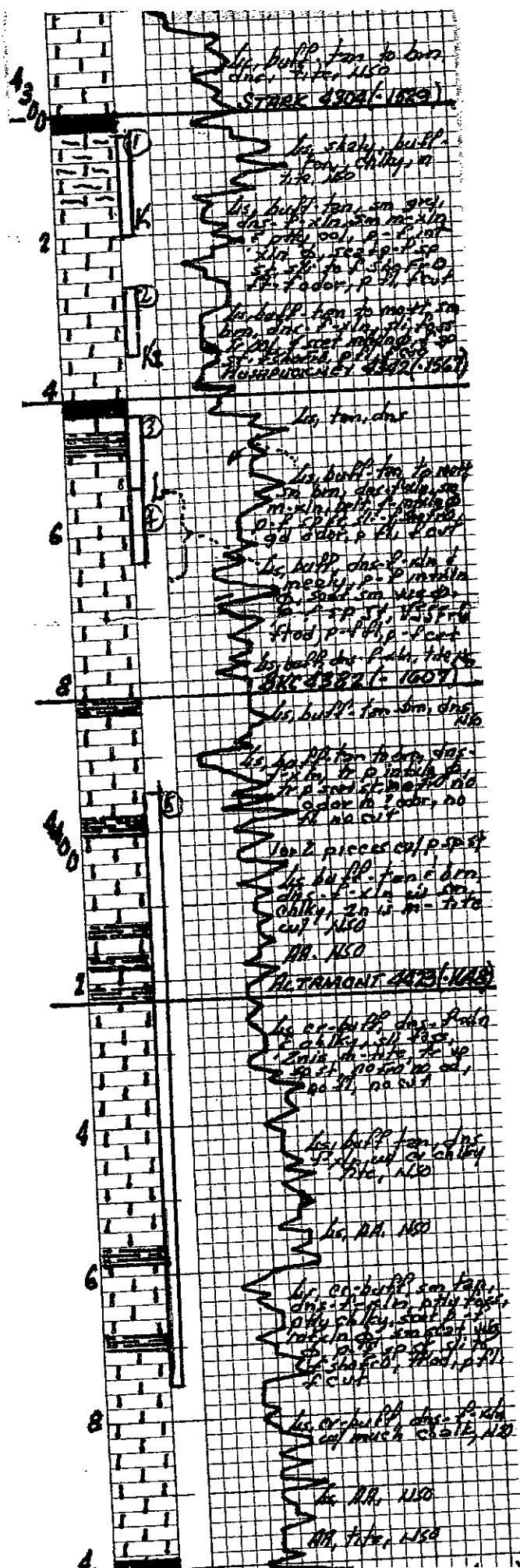
Sample examination, drill stem testing, and electric logging revealed no zones of possible commercial production of oil or gas. It was therefore recommended, and permission granted to plug and abandon the No. 2-27 Stormont.

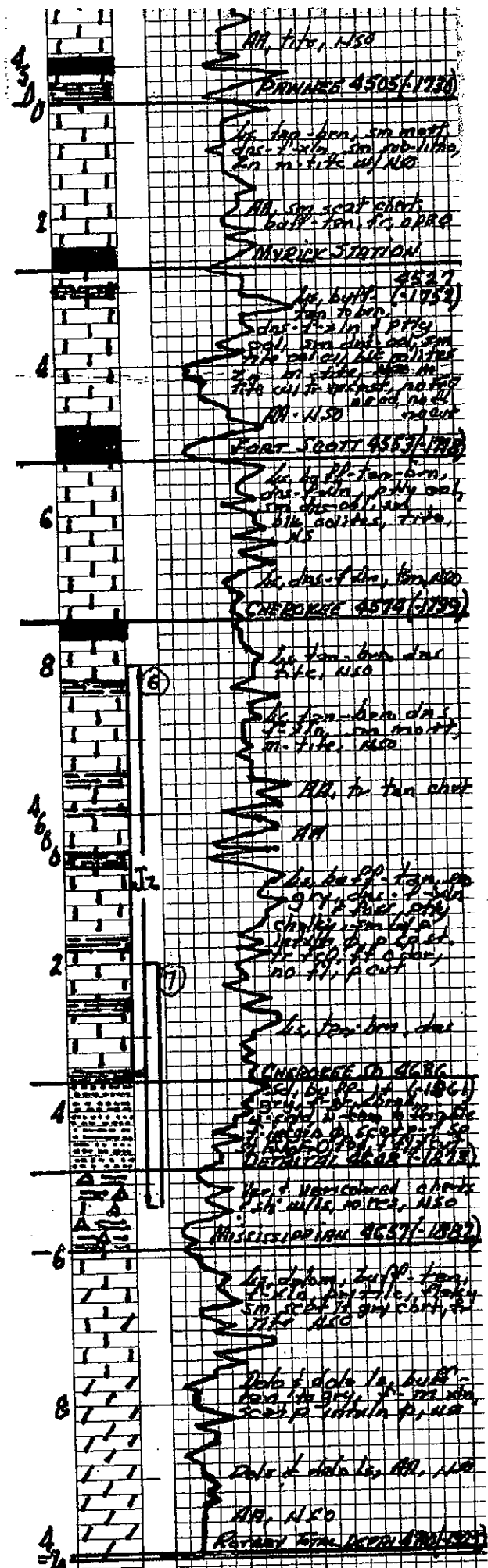
Respectfully submitted,

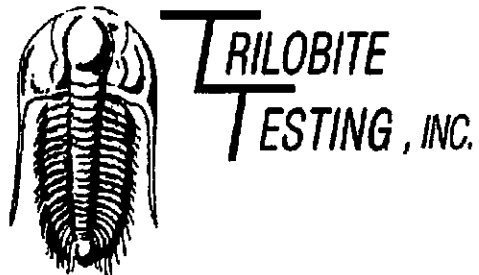
Robert C. Lewellyn
Petroleum Geologist

RCL:me









DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W. St. Road 4
Olmits, KS 67564-8561

ATTN: Bob Lewellyn

S.27-19-28 Lane, KS

Stormont #2-27

Start Date: 2010.07.01 @ 18:47:25

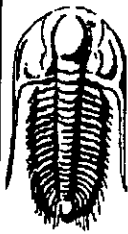
End Date: 2010.07.02 @ 02:20:25

Job Ticket #: 39065 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering
562 W. St. Road 4
Olmits, KS 67564-8561
ATTN: Bob Lewellyn

Stormont #2-27

S.27-19-28 Lane, KS

Job Ticket: 39065

DST#: 1

Test Start: 2010.07.01 @ 18:47:25

GENERAL INFORMATION:

Formation: **LKC 'K'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:12:10
Time Test Ended: 02:20:25
Interval: **4303.00 ft (KB) To 4320.00 ft (KB) (TVD)**
Total Depth: **4320.00 ft (KB) (TVD)**
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37

Reference Elevations: 2775.00 ft (KB)
2768.00 ft (CF)
KB to GR/CF: 7.00 ft

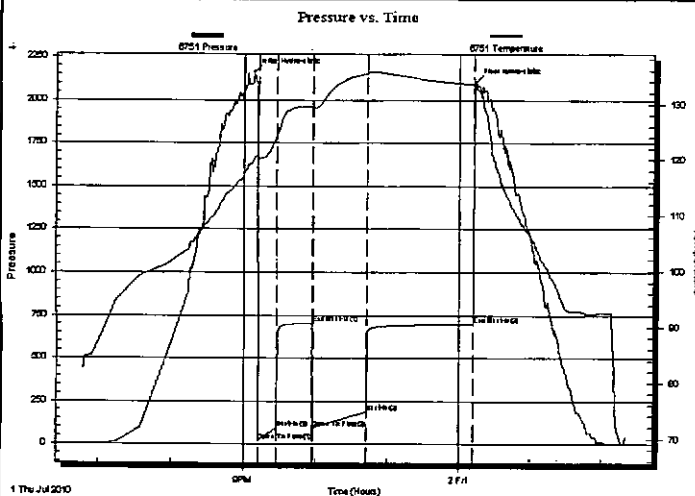
Serial #: 6751

Outside

Press@RunDepth: 186.88 psig @ 4305.00 ft (KB)
Start Date: 2010.07.01 End Date: 2010.07.02
Start Time: 18:47:30 End Time: 02:20:24

Capacity: 8000.00 psig
Last Calib.: 2010.07.02
Time On Btm: 2010.07.01 @ 21:08:25
Time Off Btm: 2010.07.02 @ 00:13:55

TEST COMMENT: IF: 6 1/2" Building blow.
IS: No return.
FF: B.O.B. @ 28 min.
FSI: No return.



PRESSURE SUMMARY

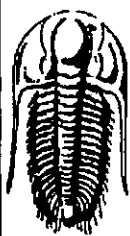
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2163.05	120.16	Initial Hydro-static
4	20.31	119.21	Open To Flow (1)
20	88.87	124.34	Shut-In(1)
49	702.10	129.48	End Shut-In(1)
50	90.95	129.07	Open To Flow (2)
95	186.88	135.37	Shut-In(2)
184	699.01	133.50	End Shut-In(2)
186	2108.06	133.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
402.00	MW 10%M 90%W	4.33
0.00	RW: .166 @ 71 Degrees F = 45000 PPM	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering

562 W. St. Road 4
Olmritz, KS 67564-8561

ATTN: Bob Lewellyn

Stormont #2-27

S.27-19-28 Lane, KS

Job Ticket: 39065

DST#: 1

Test Start: 2010.07.01 @ 18:47:25

Tool Information

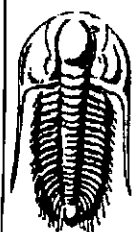
Drill Pipe:	Length: 4158.00 ft	Diameter: 3.80 inches	Volume: 58.33 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 144.00 ft	Diameter: 2.25 inches	Volume: 0.71 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume:	59.04 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.50 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4303.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	44.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4276.50	
Shut In Tool	5.00			4281.50	
Hydraulic tool	5.00			4286.50	
Jars	5.00			4291.50	
Safety Joint	2.50			4294.00	
Packer	5.00			4299.00	27.50 Bottom Of Top Packer
Packer	4.00			4303.00	
Stubb	1.00			4304.00	
Perforations	1.00			4305.00	
Recorder	0.00	8357	Inside	4305.00	
Recorder	0.00	6751	Outside	4305.00	
Perforations	12.00			4317.00	
Bullnose	3.00			4320.00	17.00 Bottom Packers & Anchor

Total Tool Length: 44.50



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering
562 W. St. Road 4
Olmitz, KS 67564-8561
ATTN: Bob Lewellyn

Stormont #2-27
S.27-19-28 Lane, KS
Job Ticket: 39065 DST#: 1
Test Start: 2010.07.01 @ 18:47:25

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	45000 ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.35 in ³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2400.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
402.00	MW 10%M 90%W	4.327
0.00	RW: .166 @ 71 Degrees F = 45000 PPM	0.000

Total Length: 402.00 ft Total Volume: 4.327 bbl

Num Fluid Samples: 0

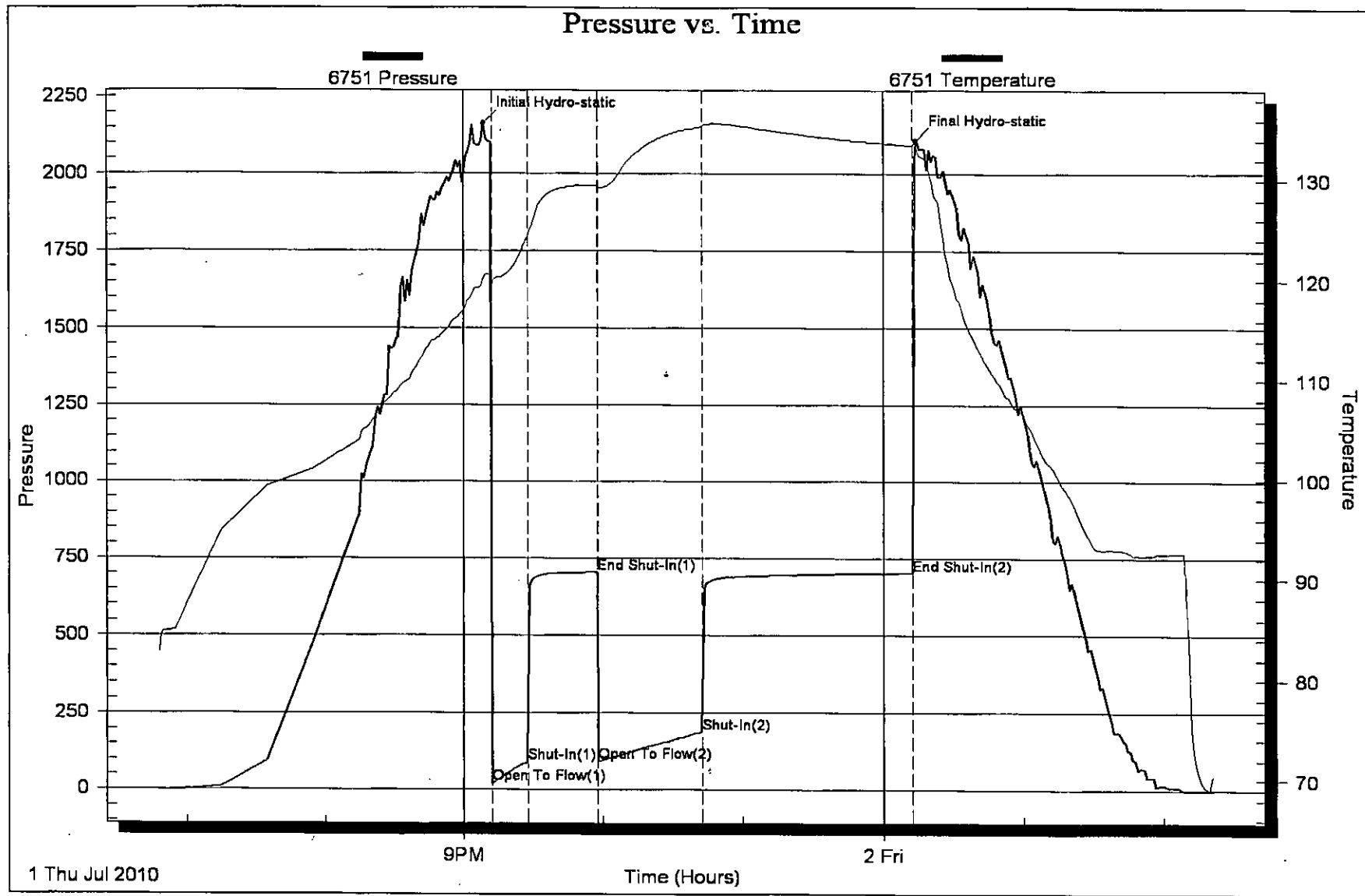
Num Gas Bombs: 0

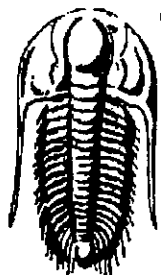
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W. St. Road 4
Olmitz, KS 67564-8561

ATTN: Bob Lewellyn

S.27-19-28 Lane, KS

Stormont #2-27

Start Date: 2010.07.02 @ 11:16:00

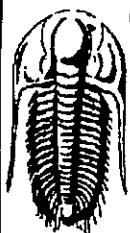
End Date: 2010.07.02 @ 17:33:39

Job Ticket #: 39066 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering
562 W. St. Road 4
Olmitz, KS 67564-8561
ATTN: Bob Lewellyn

Stormont #2-27

S.27-19-28 Lane, KS

Job Ticket: 39066

DST#: 2

Test Start: 2010.07.02 @ 11:16:00

GENERAL INFORMATION:

Formation: LKC 'K' - 2

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:03:40

Time Test Ended: 17:33:39

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: 4327.00 ft (KB) To 4336.00 ft (KB) (TVD)

Total Depth: 4336.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2775.00 ft (KB)

2768.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8357

Inside

Press@RunDepth: 54.93 psig @ 4328.00 ft (KB)

Start Date: 2010.07.02

End Date:

2010.07.02

Start Time: 11:16:05

End Time:

17:33:40

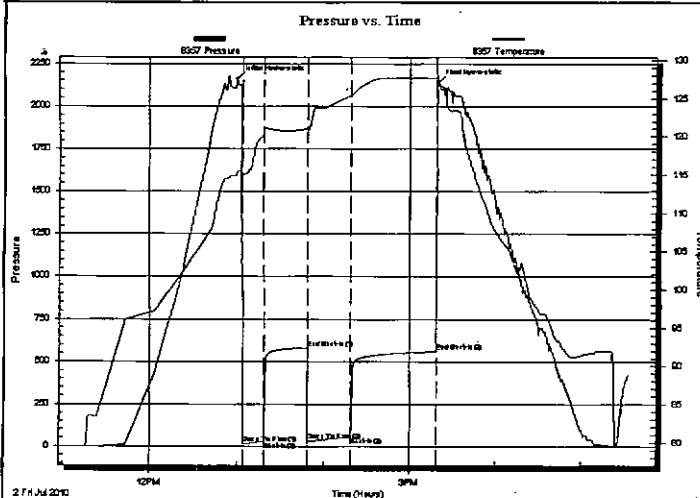
Capacity: 8000.00 psig

Last Calib.: 2010.07.02

Time On Btm: 2010.07.02 @ 13:00:10

Time Off Btm: 2010.07.02 @ 15:19:20

TEST COMMENT: IF: 1" Blow.
IS: No return.
FF: 3/4" Blow.
FS: No return.



PRESSURE SUMMARY

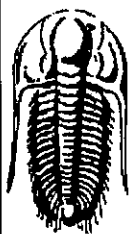
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2160.65	115.05	Initial Hydro-static
4	15.77	114.84	Open To Flow (1)
19	30.29	120.37	Shut-In(1)
49	580.43	121.05	End Shut-In(1)
49	31.89	120.83	Open To Flow (2)
79	54.93	125.43	Shut-In(2)
139	560.03	127.60	End Shut-In(2)
140	2133.06	127.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	MW 25%M 75%W	0.49
0.00	RW: .180 @ 91 Degrees F = 30000 PPM	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering

Stormont #2-27

562 W. St. Road 4
Olmritz, KS 67564-8561

S.27-19-28 Lane, KS

Job Ticket: 39066

DST#: 2

ATTN: Bob Lewellyn

Test Start: 2010.07.02 @ 11:16:00

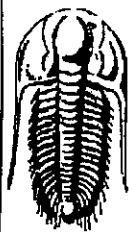
Tool Information

Drill Pipe:	Length: 4179.00 ft	Diameter: 3.80 inches	Volume: 58.62 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 144.00 ft	Diameter: 2.25 inches	Volume: 0.71 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	59.33 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.50 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	4327.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	9.00 ft				
Tool Length:	36.50 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4300.50	
Shut In Tool	5.00			4305.50	
Hydraulic tool	5.00			4310.50	
Jars	5.00			4315.50	
Safety Joint	2.50			4318.00	
Packer	5.00			4323.00	27.50 Bottom Of Top Packer
Packer	4.00			4327.00	
Stubb	1.00			4328.00	
Recorder	0.00	8357	Inside	4328.00	
Recorder	0.00	6751	Outside	4328.00	
Perforations	5.00			4333.00	
Bullnose	3.00			4336.00	9.00 Bottom Packers & Anchor

Total Tool Length: 36.50



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering
562 W. St. Road 4
Olmitz, KS 67564-8561
ATTN: Bob Lewellyn

Stormont #2-27
S.27-19-28 Lane, KS
Job Ticket: 39066 DST#: 2
Test Start: 2010.07.02 @ 11:16:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	30000 ppm
Viscosity:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.34 in ³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2900.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	MW 25%M 75%W	0.492
0.00	RW: .180 @ 91 Degrees F = 30000 PPM	0.000

Total Length: 100.00 ft Total Volume: 0.492 bbl

Num Fluid Samples: 0

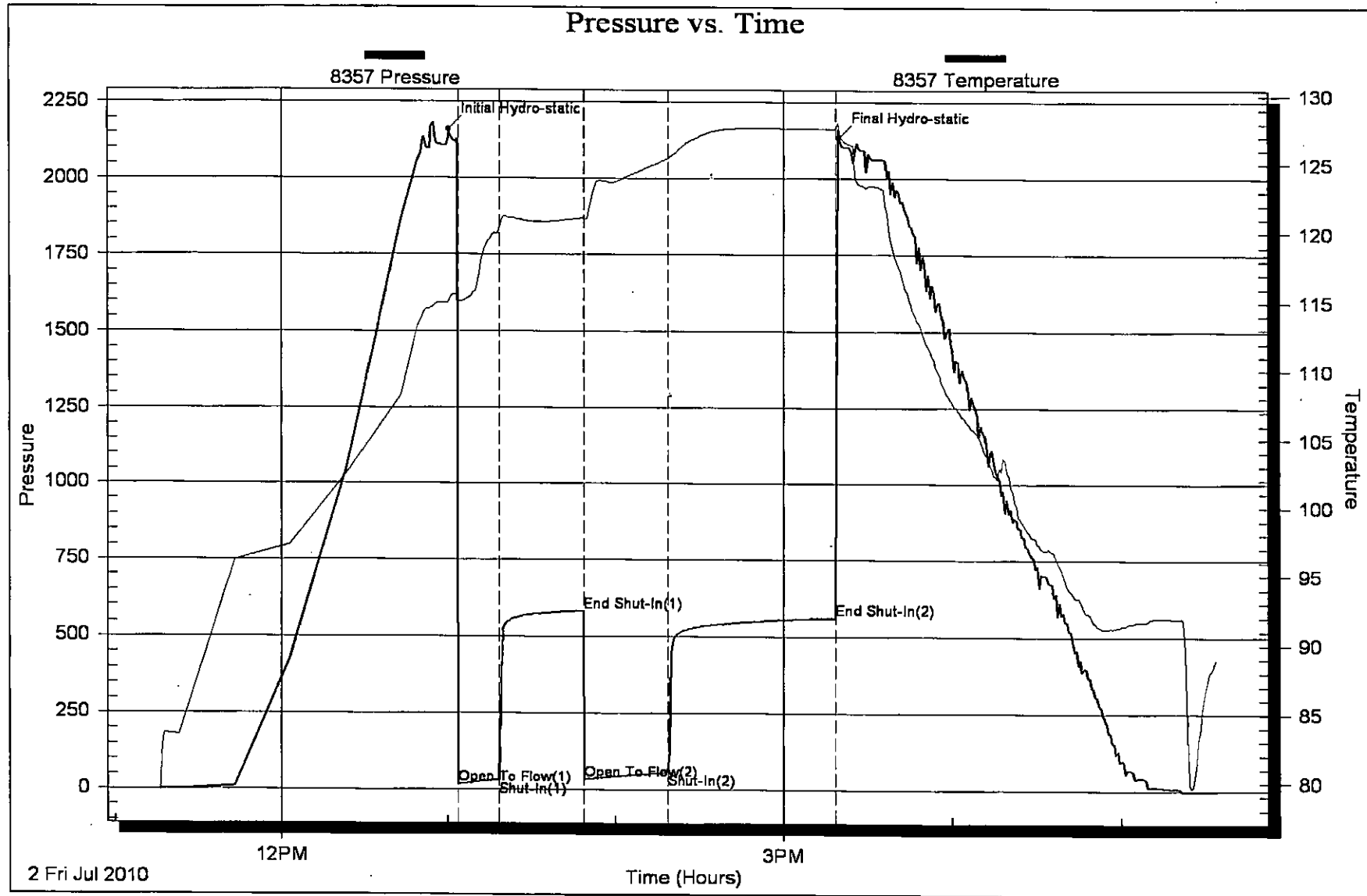
Num Gas Bombs: 0

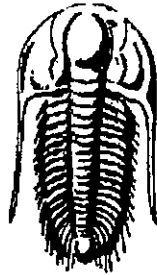
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W. St. Road 4
Olmitz, KS 67564-8561

ATTN: Bob Lewellyn

S.27-19-28 Lane, KS

Stormont #2-27

Start Date: 2010.07.03 @ 04:12:00

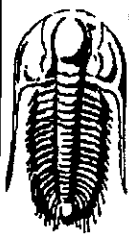
End Date: 2010.07.03 @ 09:16:30

Job Ticket #: 39067 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering
562 W. St. Road 4
Olmitz, KS 67564-8561
ATTN: Bob Lewellyn

Stormont #2-27

S.27-19-28 Lane, KS

Job Ticket: 39067

DST#: 3

Test Start: 2010.07.03 @ 04:12:00

GENERAL INFORMATION:

Formation: **LKC 'L'**

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

Time Tool Opened: 05:59:40

Time Test Ended: 09:16:30

Test Type: **Conventional Bottom Hole**

Tester: **Chuck Smith**

Unit No: **37**

Interval: **4342.00 ft (KB) To 4354.00 ft (KB) (TVD)**

Total Depth: **4354.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2775.00 ft (KB)**

2768.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: 8357 Inside

Press@RunDepth: **16.19 psig @ 4344.00 ft (KB)**

Start Date: **2010.07.03**

End Date:

2010.07.03

Capacity: **8000.00 psig**

Last Calib.: **2010.07.03**

Start Time: **04:12:05**

End Time:

09:16:29

Time On Btm: **2010.07.03 @ 05:57:10**

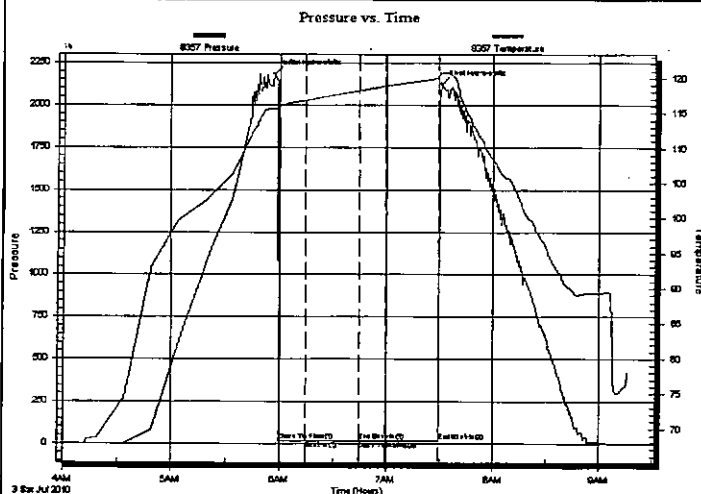
Time Off Btm: **2010.07.03 @ 07:30:30**

TEST COMMENT: IF: Surface blow died @ 7 min.

IS: No return.

FF: No blow.

FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.29	115.62	Initial Hydro-static
3	15.40	114.86	Open To Flow (1)
18	15.85	116.83	Shut-In (1)
48	17.24	118.26	End Shut-In (1)
48	15.61	118.27	Open To Flow (2)
63	16.19	118.90	Shut-In (2)
93	16.59	120.02	End Shut-In (2)
94	2126.45	120.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	M 100%M	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering

Stormont #2-27

562 W. St. Road 4
Olmitz, KS 67564-8561

S.27-19-28 Lane, KS

Job Ticket: 39067

DST#: 3

ATTN: Bob Lewellyn

Test Start: 2010.07.03 @ 04:12:00

Tool Information

Drill Pipe:	Length: 4180.00 ft	Diameter: 3.80 inches	Volume: 58.63 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	35000.00 lb
Drill Collar:	Length: 144.00 ft	Diameter: 2.25 inches	Volume: 0.71 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume:	59.34 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	9.50 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	4342.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	12.00 ft				
Tool Length:	39.50 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4315.50	
Shut In Tool	5.00			4320.50	
Hydraulic tool	5.00			4325.50	
Jars	5.00			4330.50	
Safety Joint	2.50			4333.00	
Packer	5.00			4338.00	27.50 Bottom Of Top Packer
Packer	4.00			4342.00	
Stubb	1.00			4343.00	
Perforations	1.00			4344.00	
Recorder	0.00	8357	Inside	4344.00	
Recorder	0.00	6751	Outside	4344.00	
Perforations	7.00			4351.00	
Bullnose	3.00			4354.00	12.00 Bottom Packers & Anchor

Total Tool Length: 39.50



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering

Stormont #2-27

562 W. St. Road 4
Olmitz, KS 67564-8561

S.27-19-28 Lane, KS

Job Ticket: 39067

DST#: 3

ATTN: Bob Lewellyn

Test Start: 2010.07.03 @ 04:12:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.35 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	M 100%M	0.005

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

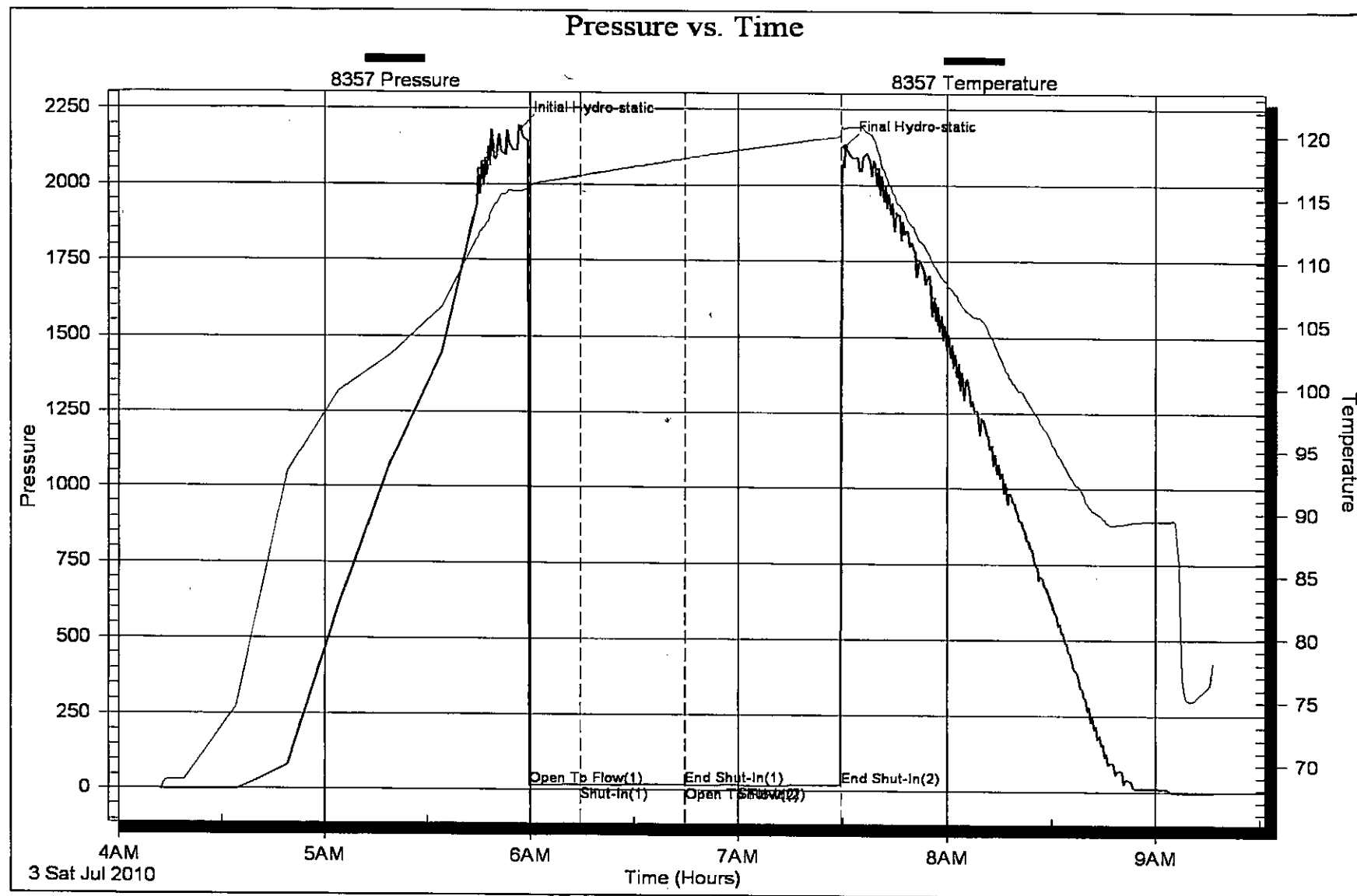
Num Gas Bombs: 0

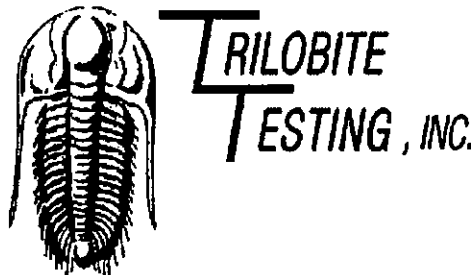
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W. St. Road 4
Olmitz, KS 67564-8561

ATTN: Bob Lewellyn

S.27-19-28 Lane, KS

Stormont #2-27

Start Date: 2010.07.03 @ 18:19:00

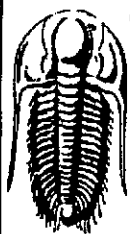
End Date: 2010.07.03 @ 23:46:09

Job Ticket #: 39068 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering
562 W. St. Road 4
Olmitz, KS 67564-8561
ATTN: Bob Lewellyn

Stormont #2-27
S.27-19-28 Lane, KS
Job Ticket: 39068 **DST#: 4**
Test Start: 2010.07.03 @ 18:19:00

GENERAL INFORMATION:

Formation: **LKC 'L'**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 20:11:10
Time Test Ended: 23:46:09

Test Type: **Conventional Bottom Hole**
Tester: **Chuck Smith**
Unit No: **37**

Interval: **4354.00 ft (KB) To 4364.00 ft (KB) (TVD)**
Total Depth: **4364.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2775.00 ft (KB)**
2768.00 ft (CF)
KB to GR/CF: **7.00 ft**

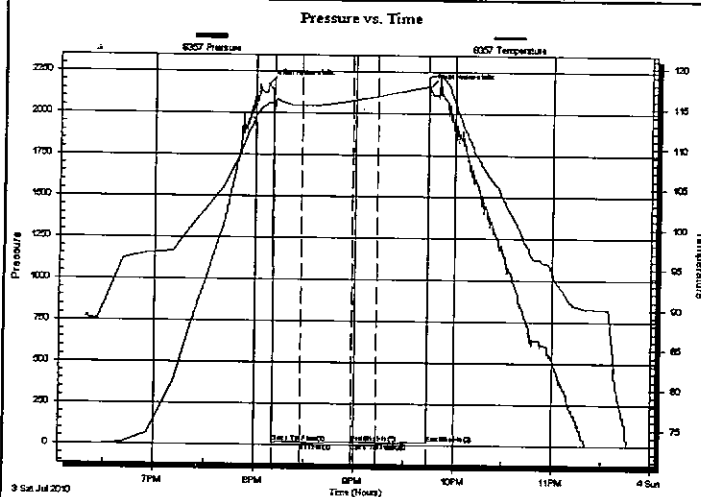
Serial #: 8357

Inside

Press@RunDepth: **15.45 psig @ 4356.00 ft (KB)**
Start Date: **2010.07.03** End Date: **2010.07.03**
Start Time: **18:19:05** End Time: **23:46:10**

Capacity: **8000.00 psig**
Last Calib.: **2010.07.03**
Time On Btm: **2010.07.03 @ 20:07:40**
Time Off Btm: **2010.07.03 @ 21:44:30**

TEST COMMENT: IF: Surface blow died @ 1 min.
ISI: No return.
FF: No blow.
FSI: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	*Annotation
0	2176.25	115.64	Initial Hydro-static
4	12.81	114.50	Open To Flow (1)
21	15.17	115.30	Shut-In(1)
51	15.27	115.95	End Shut-In(1)
51	14.34	115.95	Open To Flow (2)
66	15.45	116.52	Shut-In(2)
97	15.05	117.78	End Shut-In(2)
97	2159.97	118.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	M 100%M	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering

Stormont #2-27

562 W. St. Road 4
Olmütz, KS 67564-8561

S.27-19-28 Lane, KS

Job Ticket: 39068

DST#: 4

ATTN: Bob Lewellyn

Test Start: 2010.07.03 @ 18:19:00

Tool Information

Drill Pipe:	Length: 4210.00 ft	Diameter: 3.80 inches	Volume: 59.06 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 144.00 ft	Diameter: 2.25 inches	Volume: 0.71 bbl	Weight to Pull Loose:	65000.00 lb
		Total Volume:	59.77 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.50 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	4354.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	37.50 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4327.50	
Shut In Tool	5.00			4332.50	
Hydraulic tool	5.00			4337.50	
Jars	5.00			4342.50	
Safety Joint	2.50			4345.00	
Packer	5.00			4350.00	27.50 Bottom Of Top Packer
Packer	4.00			4354.00	
Stubb	1.00			4355.00	
Perforations	1.00			4356.00	
Recorder	0.00	8357	Inside	4356.00	
Recorder	0.00	6751	Outside	4356.00	
Perforations	5.00			4361.00	
Bullnose	3.00			4364.00	10.00 Bottom Packers & Anchor

Total Tool Length: 37.50



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering

Stormont #2-27

562 W. St. Road 4
Olmitz, KS 67564-8561

S.27-19-28 Lane, KS

Job Ticket: 39068

DST#: 4

ATTN: Bob Lewellyn

Test Start: 2010.07.03 @ 18:19:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.34 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	M 100%M	0.005

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

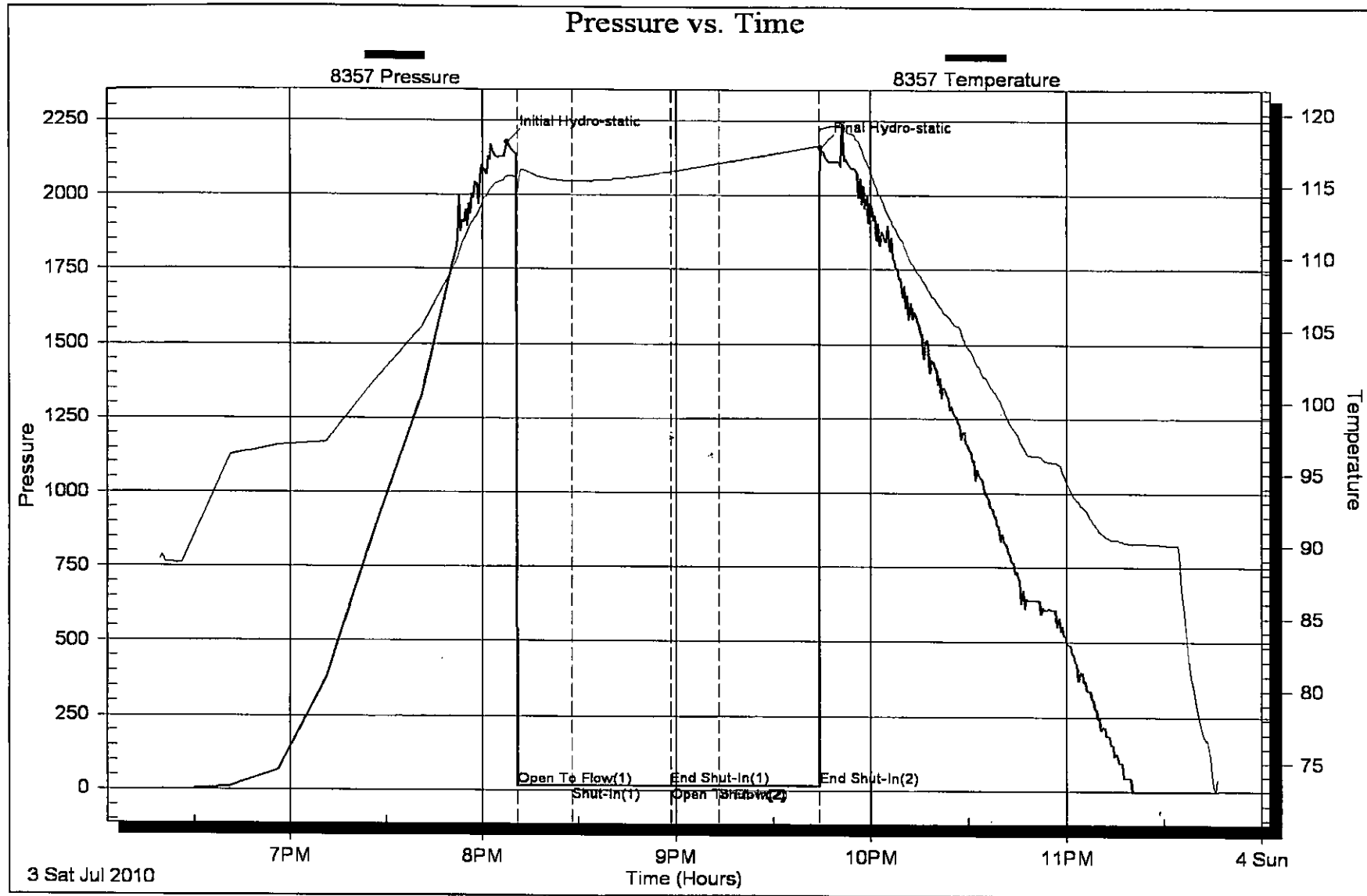
Num Gas Bombs: 0

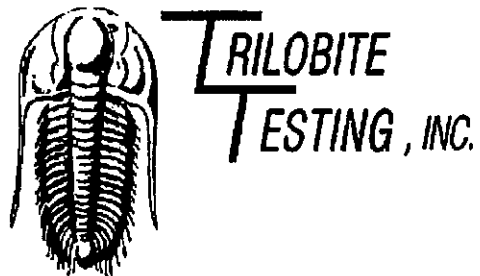
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W. St. Road 4
Olmitz, KS 67564-8561

ATTN: Bob Lewellyn

S.27-19-28 Lane, KS

Stormont #2-27

Start Date: 2010.07.04 @ 16:08:00

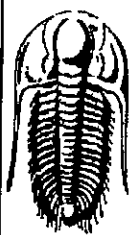
End Date: 2010.07.04 @ 21:52:50

Job Ticket #: 39069 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering
562 W. St. Road 4
Olmitz, KS 67564-8561
ATTN: Bob Lewellyn

Stormont #2-27

S.27-19-28 Lane, KS

Job Ticket: 39069

DST#: 5

Test Start: 2010.07.04 @ 16:08:00

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:01:20

Time Test Ended: 21:52:50

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4395.00 ft (KB) To 4475.00 ft (KB) (TVD)**

Total Depth: **4475.00 ft (KB) (TVD)**

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2775.00 ft (KB)

2768.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8357

Inside

Press@RunDepth: 22.14 psig @ 4399.00 ft (KB)

Start Date: 2010.07.04

End Date:

2010.07.04

Capacity: 8000.00 psig

Last Calib.: 2010.07.04

Start Time: 16:08:05

End Time:

21:52:50

Time On Btm: 2010.07.04 @ 17:58:30

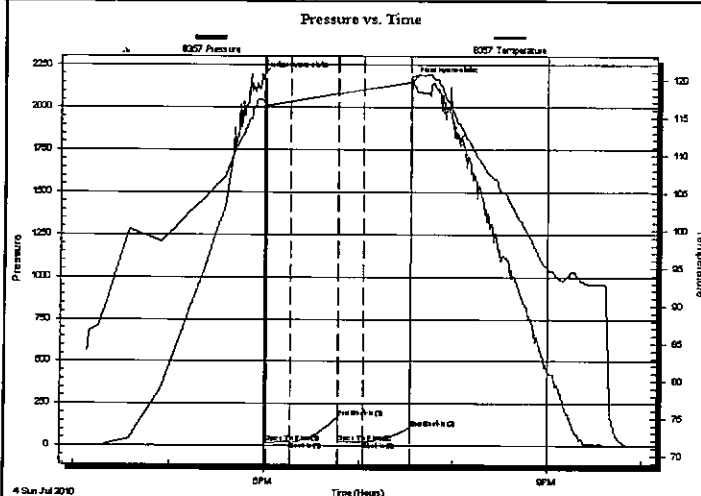
Time Off Btm: 2010.07.04 @ 19:33:50

TEST COMMENT: IF: Surface blow died @ 5 min.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

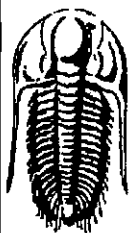
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2186.92	117.28	Initial Hydro-static
3	19.74	115.96	Open To Flow (1)
18	20.80	117.15	Shut-In(1)
48	167.20	118.23	End Shut-In(1)
48	20.12	118.17	Open To Flow (2)
64	22.14	118.76	Shut-In(2)
94	106.25	119.76	End Shut-In(2)
96	2155.76	120.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100%M	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering

Stormont #2-27

562 W. St. Road 4
Olmits, KS 67564-8561

S.27-19-28 Lane, KS

Job Ticket: 39069

DST#: 5

ATTN: Bob Lewellyn

Test Start: 2010.07.04 @ 16:08:00

Tool Information

Drill Pipe:	Length: 4245.00 ft	Diameter: 3.80 inches	Volume: 59.55 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 144.00 ft	Diameter: 2.25 inches	Volume: 0.71 bbl	Weight to Pull Loose: 65000.00 lb
		Total Volume:	60.26 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.50 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4395.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	107.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4368.50		
Shut In Tool	5.00			4373.50		
Hydraulic tool	5.00			4378.50		
Jars	5.00			4383.50		
Safety Joint	2.50			4386.00		
Packer	5.00			4391.00	27.50	Bottom Of Top Packer
Packer	4.00			4395.00		
Stubb	1.00			4396.00		
Perforations	3.00			4399.00		
Recorder	0.00	8357	Inside	4399.00		
Recorder	0.00	6751	Outside	4399.00		
Perforations	8.00			4407.00		
Change Over Sub	1.00			4408.00		
Drill Pipe	63.00			4471.00		
Change Over Sub	1.00			4472.00		
Bullnose	3.00			4475.00	80.00	Bottom Packers & Anchor
Total Tool Length:		107.50				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering

Stormont #2-27

562 W. St. Road 4
Olmitz, KS 67564-8561

S.27-19-28 Lane, KS

Job Ticket: 39069

DST#: 5

ATTN: Bob Lewellyn

Test Start: 2010.07.04 @ 16:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M 100%M	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

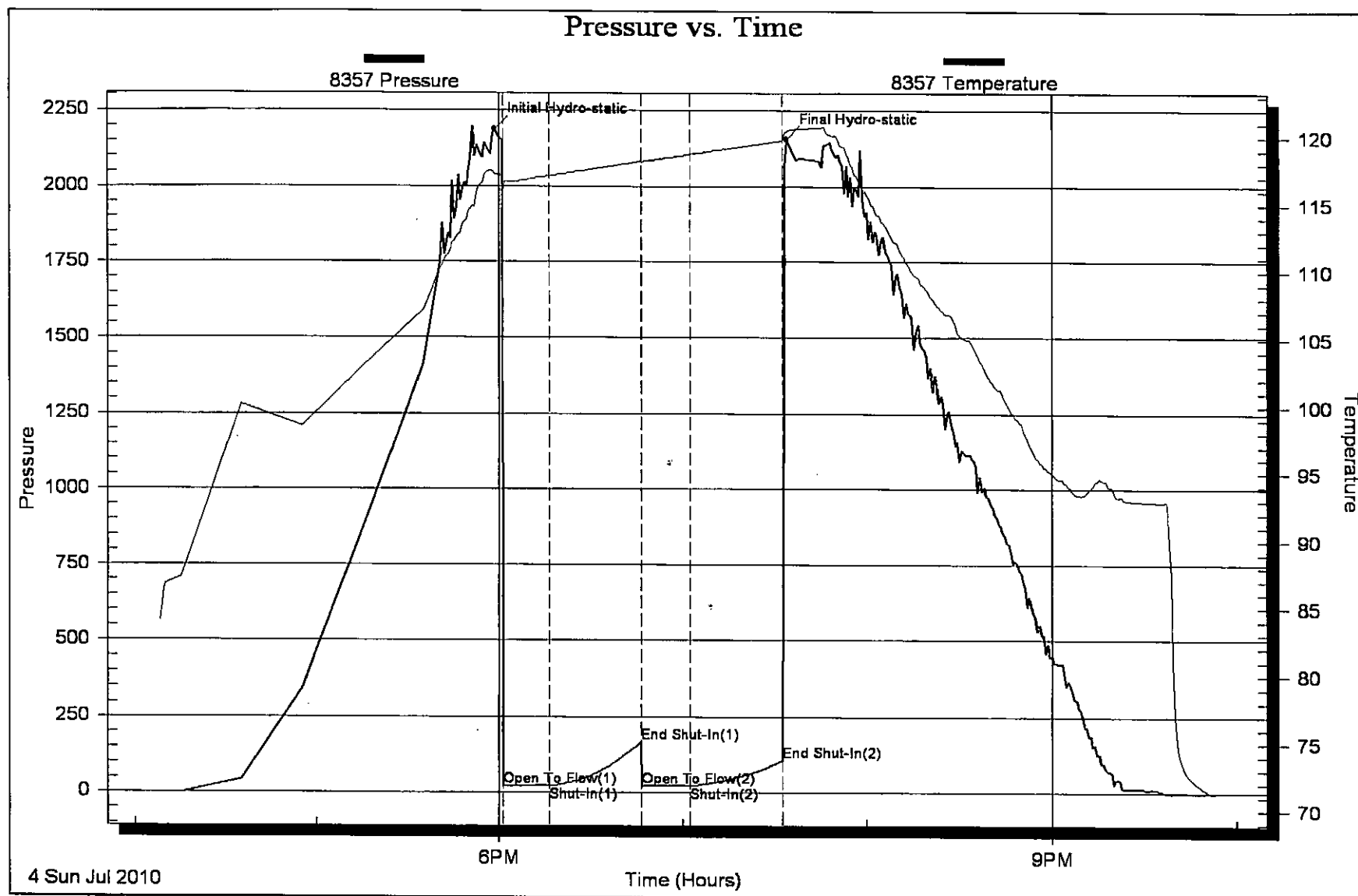
Num Gas Bombs: 0

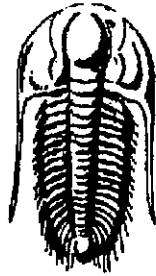
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W. St. Road 4
Olmitz, KS 67564-8561

ATTN: Bob Lewellyn

S.27-19-28 Lane, KS

Stormont #2-27

Start Date: 2010.07.05 @ 21:56:00

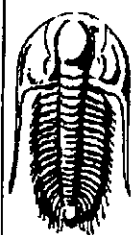
End Date: 2010.07.06 @ 03:45:45

Job Ticket #: 39070 DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Larson Engineering
562 W. St. Road 4
Olmits, KS 67564-8561
ATTN: Bob Lewellyn

Stormont #2-27

S.27-19-28 Lane, KS

Job Ticket: 39070

DST#: 6

Test Start: 2010.07.05 @ 21:56:00

GENERAL INFORMATION:

Formation: **Johnson**

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

Time Tool Opened: 23:57:45

Time Test Ended: 03:45:45

Test Type: **Conventional Bottom Hole**

Tester: **Chuck Smith**

Unit No: **37**

Interval: **4580.00 ft (KB) To 4635.00 ft (KB) (TVD)**

Total Depth: **4635.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2775.00 ft (KB)**

2768.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: 6751 **Outside**

Press@RunDepth: **23.39 psig @ 4584.00 ft (KB)**

Start Date: **2010.07.05**

End Date:

2010.07.06

Capacity: **8000.00 psig**

Last Calib.: **2010.07.06**

Start Time: **21:56:05**

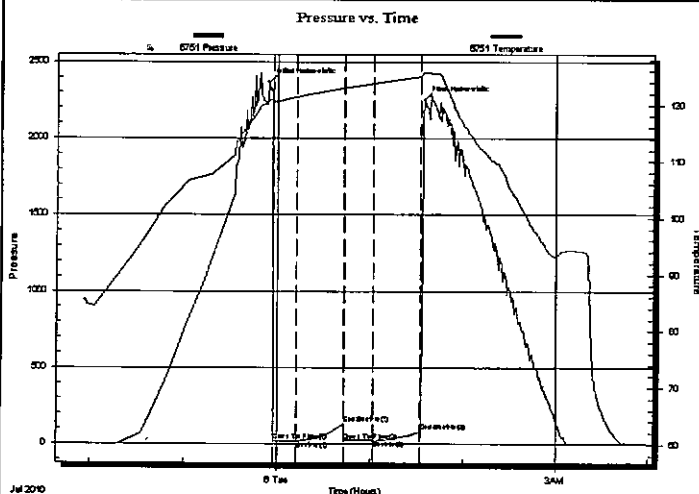
End Time:

03:45:44

Time On Btm: **2010.07.05 @ 23:54:30**

Time Off Btm: **2010.07.06 @ 01:34:45**

TEST COMMENT: IF: 1/8" Blow.
IS: No return.
FF: No blow.
FSt: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2366.43	120.58	Initial Hydro-static
4	20.57	120.24	Open To Flow (1)
18	22.43	121.46	Shut-In(1)
49	134.98	123.03	End Shut-In(1)
49	22.08	123.01	Open To Flow (2)
68	23.39	123.82	Shut-In(2)
98	81.43	125.04	End Shut-In(2)
101	2250.11	125.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	M 100%M	0.01

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering

Stormont #2-27

562 W. St. Road 4
Olmitz, KS 67564-8561

S.27-19-28 Lane, KS

Job Ticket: 39070

DST#: 6

ATTN: Bob Lewellyn

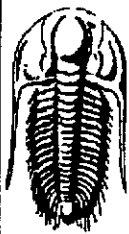
Test Start: 2010.07.05 @ 21:56:00

Tool Information

Drill Pipe:	Length: 4429.00 ft	Diameter: 3.80 inches	Volume: 62.13 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 144.00 ft	Diameter: 2.25 inches	Volume: 0.71 bbl	Weight to Pull Loose:	75000.00 lb
		Total Volume:	62.84 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.50 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4580.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	55.00 ft				
Tool Length:	82.50 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4553.50		
Shut In Tool	5.00			4558.50		
Hydraulic tool	5.00			4563.50		
Jars	5.00			4568.50		
Safety Joint	2.50			4571.00		
Packer	5.00			4576.00	27.50	Bottom Of Top Packer
Packer	4.00			4580.00		
Stubb	1.00			4581.00		
Perforations	3.00			4584.00		
Recorder	0.00	8357	Inside	4584.00		
Recorder	0.00	6751	Outside	4584.00		
Perforations	15.00			4599.00		
Change Over Sub	1.00			4600.00		
Drill Pipe	31.00			4631.00		
Change Over Sub	1.00			4632.00		
Bullnose	3.00			4635.00	55.00	Bottom Packers & Anchor
Total Tool Length:		82.50				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering

Stormont #2-27

562 W. St. Road 4
Olmitz, KS 67564-8561

S.27-19-28 Lane, KS

Job Ticket: 39070

DST#: 6

ATTN: Bob Lewellyn

Test Start: 2010.07.05 @ 21:56:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	M 100%M	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

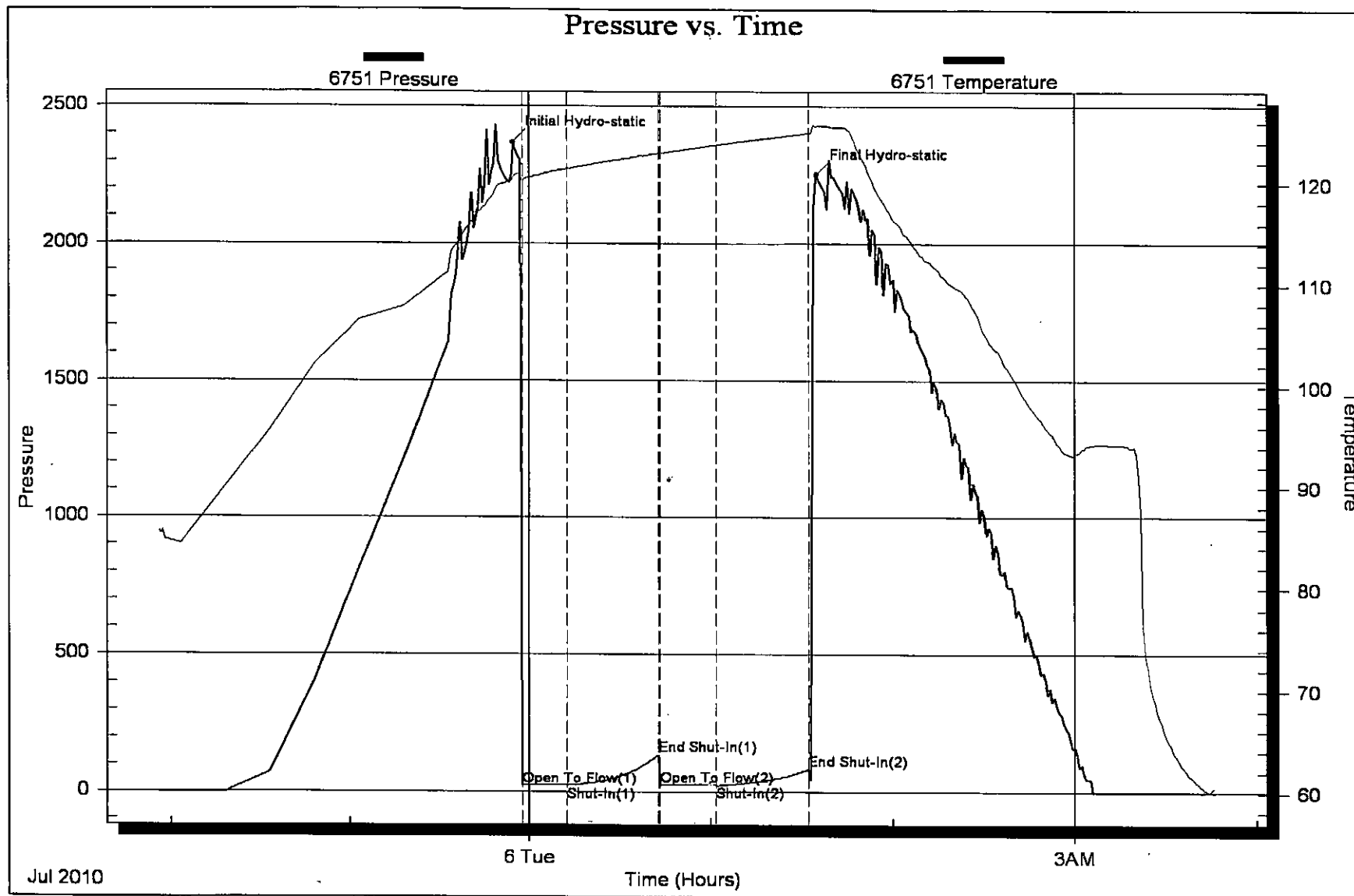
Num Gas Bombs: 0

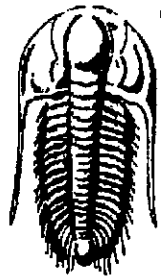
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: APt @ Degrees F =





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W. St. Road 4
Olmits, KS 67564-8561

ATTN: Bob Lewellyn

S.27-19-28 Lane, KS

Stormont #2-27

Start Date: 2010.07.06 @ 13:28:00

End Date: 2010.07.06 @ 20:24:09

Job Ticket #: 39071 DST #: 7

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Larson Engineering
562 W. St. Road 4
Olmitz, KS 67564-8561
ATTN: Bob Lewellyn

Stormont #2-27

S.27-19-28 Lane, KS

Job Ticket: 39071

DST#: 7

Test Start: 2010.07.06 @ 13:28:00

GENERAL INFORMATION:

Formation: **Cherokee Sand**

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

Time Tool Opened: 16:22:20

Time Test Ended: 20:24:09

Test Type: **Conventional Bottom Hole**

Tester: **Chuck Smith**

Unit No: **37**

Interval: **4620.00 ft (KB) To 4655.00 ft (KB) (TVD)**

Total Depth: **4655.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2775.00 ft (KB)**

2768.00 ft (CF)

KB to GRVCF: **7.00 ft**

Serial #: 8357

Inside

Press@RunDepth: **20.04 psig @ 4622.00 ft (KB)**

Start Date: **2010.07.06**

End Date:

2010.07.06

Capacity: **8000.00 psig**

Last Calib.: **2010.07.06**

Start Time: **13:28:05**

End Time:

20:24:10

Time On Btm: **2010.07.06 @ 16:20:00**

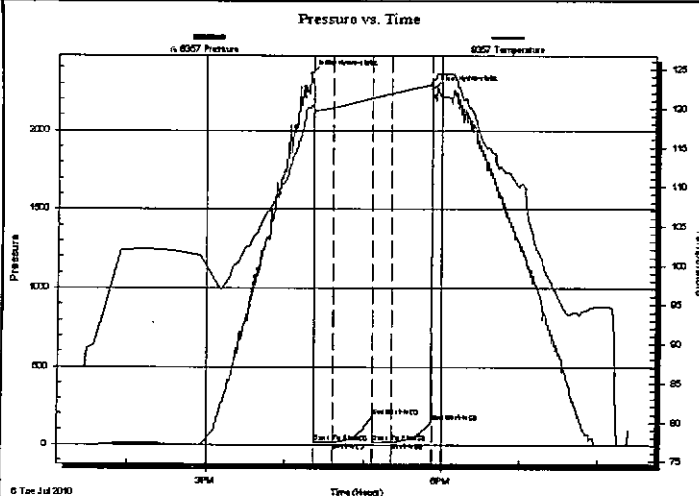
Time Off Btm: **2010.07.06 @ 17:52:50**

TEST COMMENT: IF: Surface blow died @ 7 min.

IS: No return.

FF: No blow.

FSI: No return.



PRESSURE SUMMARY

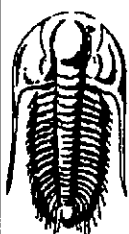
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2360.39	120.08	Initial Hydro-static
3	18.67	119.29	Open To Flow (1)
17	19.60	120.08	Shut-In(1)
47	185.29	121.34	End Shut-In(1)
47	19.35	121.30	Open To Flow (2)
62	20.04	121.92	Shut-In(2)
93	148.53	123.03	End Shut-In(2)
93	2261.40	123.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	M 100%M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering

Stormont #2-27

562 W. St. Road 4
Olmitz, KS 67564-8561

S.27-19-28 Lane, KS

Job Ticket: 39071

DST#: 7

ATTN: Bob Lewellyn

Test Start: 2010.07.06 @ 13:28:00

Tool Information

Drill Pipe:	Length: 4460.00 ft	Diameter: 3.80 inches	Volume: 62.56 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 144.00 ft	Diameter: 2.25 inches	Volume: 0.71 bbl	Weight to Pull Loose:	95000.00 lb
		Total Volume:	63.27 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.50 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4620.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	35.00 ft				
Tool Length:	62.50 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4593.50	
Shut In Tool	5.00			4598.50	
Hydraulic tool	5.00			4603.50	
Jars*	5.00			4608.50	
Safety Joint	2.50			4611.00	
Packer	5.00			4616.00	27.50 Bottom Of Top Packer
Packer	4.00			4620.00	
Stubb	1.00			4621.00	
Perforations	1.00			4622.00	
Recorder	0.00	8357	Inside	4622.00	
Recorder	0.00	6751	Outside	4622.00	
Perforations	30.00			4652.00	
Bullnose	3.00			4655.00	35.00 Bottom Packers & Anchor

Total Tool Length: 62.50



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering
562 W. St. Road 4
Olmitz, KS 67564-8561
ATTN: Bob Lewellyn

Stormont #2-27
S.27-19-28 Lane, KS
Job Ticket: 39071 DST#: 7
Test Start: 2010.07.06 @ 13:28:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 7.98 in³
Resistivity: 0.00 ohm.m
Salinity: 2600.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig
Oil API: 0 deg API
Water Salinity: 0 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

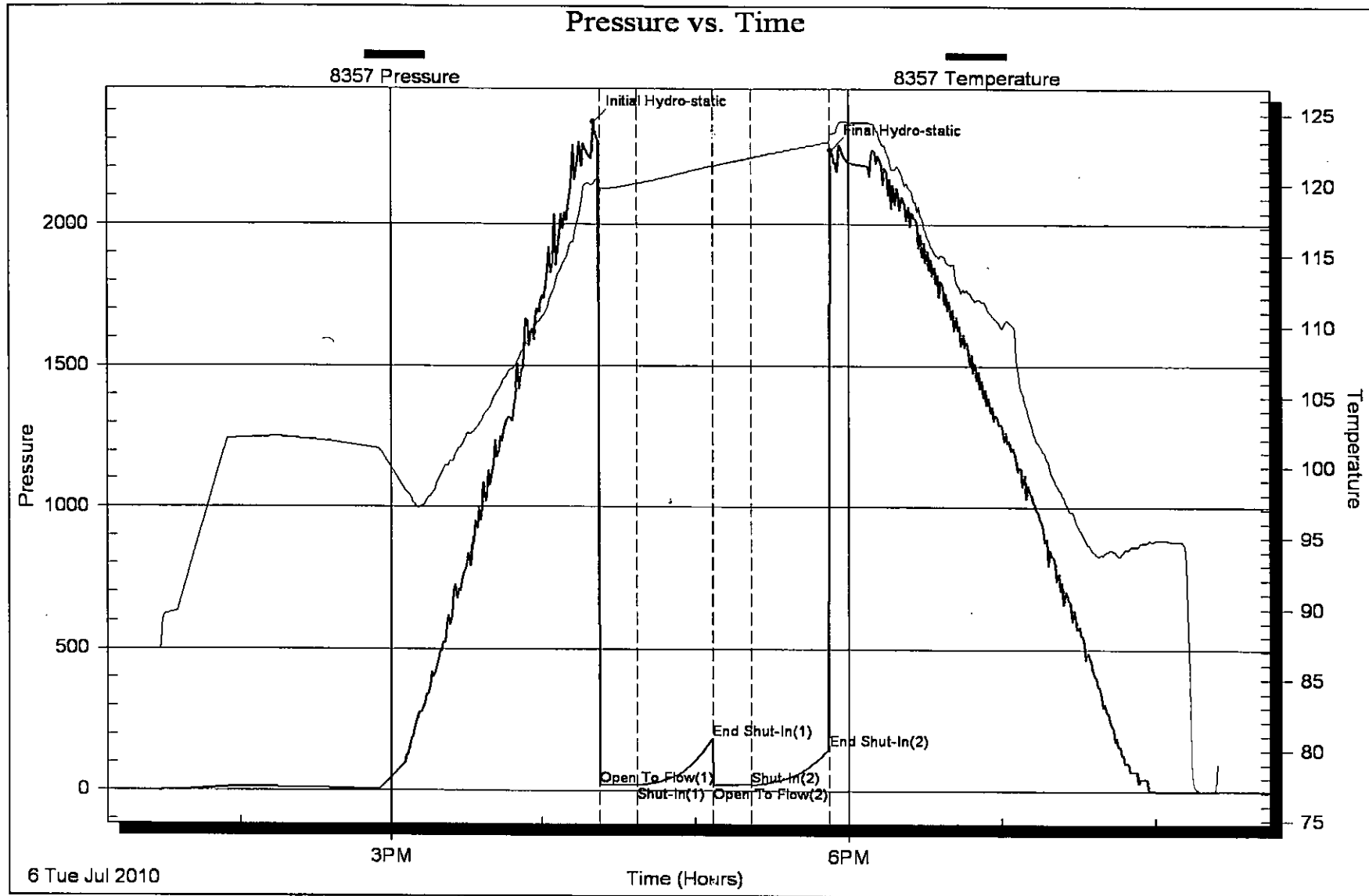
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



ALLIED CEMENTING CO., LLC. 036719

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Great Bend KS

DATE 7-7-10	SEC. 26	TWP. 20S	RANGE 24W	CALLED OUT	ON LOCATION	JOB START 600 PM	JOB FINISH 700 PM
LEASE St. Louis		WELL # 2-27	LOCATION Dighton KS South To		COUNTY hane	STATE KS	
OLD OR NEW (Circle one)		70th RD 3 East North into					

CONTRACTOR H-A Rig 3
TYPE OF JOB Rotary Plug
HOLE SIZE 7 1/2 T.D. 4697
CASING SIZE DEPTH
TUBING SIZE DEPTH
DRILL PIPE 4 1/2 DEPTH 2130
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT

EQUIPMENT

PUMP TRUCK CEMENTER Wayne-D
181 HELPER Alvin R
BULK TRUCK
344 DRIVER Bob-R
BULK TRUCK
DRIVER

REMARKS:

1st plug 2130 mix 505x Dis 5 BBLs
H 32 BBLs Rig mud
2nd plug 1330 mix 808x Dis 12 BBLs
3rd plug 660 mix 505x Dis 5 BBLs
4th 280 ft mix 805x Dis 25
Rat mix 305x 5m 600 205x
washup Rig Down

CHARGE TO: hanson
STREET
CITY STATE ZIP

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME LEWYNE TRESNER

SIGNATURE Lewyne Tresner

OWNER hanson
CEMENT
AMOUNT ORDERED 2805x 60/40 4% Gel
4 flo seal

COMMON	168	@	13.50	2268.00
POZMIX	112	@	7.55	845.60
GEL	10	@	20.25	202.50
CHLORIDE		@		
ASC		@		
4 flo seal	70	@	2.45	171.50
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	280	@	2.25	630.00
MILEAGE	280 x 43 x .10			1204.00
				TOTAL 5.321.00

SERVICE

DEPTH OF JOB	2130			
PUMP TRUCK CHARGE				990.00
EXTRA FOOTAGE		@		
MILEAGE	43	@	7.00	301.00
MANIFOLD		@		
		@		
		@		
				TOTAL 1291.00

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
		TOTAL

SALES TAX (If Any)
TOTAL CHARGES
DISCOUNT IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 036706

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Great Bend KS

DATE <u>6-25-10</u>	SEC. <u>27</u>	TWP. <u>19S</u>	RANGE <u>28W</u>	CALLED OUT	ON LOCATION	JOB START <u>1230 AM</u>	JOB FINISH <u>130 AM</u>
LEASE <u>Stormont</u>	WELL # <u>2-27</u>	LOCATION <u>Dighton KS 8 South</u>			COUNTY <u>Lawrence</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			TO RD 70 3 East North into				

CONTRACTOR H-D Rig 3

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 262

CASING SIZE 8 3/4 DEPTH 261

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15

PERFS.

DISPLACEMENT 15.50 BBHs

EQUIPMENT

PUMP TRUCK CEMENTER Wayne-D

181 HELPER Alvin-R

BULK TRUCK

344 DRIVER Bob-R

BULK TRUCK

DRIVER

REMARKS:

Pipe on Bottom Break Circulation
with Rig mud shut down
Hook up to cement line
Mix 175SX Class A 396cc 2% Gel
Displace 15.50 BBHs 7-cb water-
shut in cement did
Circulate. Wash up Rig Down

CHARGE TO: Lawson

STREET

CITY STATE ZIP

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME LELLOYNE TRESNER

SIGNATURE [Signature]

OWNER Lawson

CEMENT

AMOUNT ORDERED 175SX Class A
396cc 2% Gel

COMMON	<u>175</u>	@	<u>13.50</u>	<u>2.362.50</u>
POZMIX		@		
GEL	<u>4</u>	@	<u>20.25</u>	<u>81.00</u>
CHLORIDE	<u>6</u>	@	<u>51.50</u>	<u>309.00</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>175</u>	@	<u>2.25</u>	<u>393.75</u>
MILEAGE	<u>175 x 43 x 1.10</u>			<u>752.50</u>
TOTAL				<u>3.898.75</u>

SERVICE

DEPTH OF JOB	<u>261</u>		
PUMP TRUCK CHARGE			<u>990.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>43</u>	@	<u>7.00</u>
MANIFOLD		@	
		@	
		@	

TOTAL 1291.00

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL

SALES TAX (If Any)

TOTAL CHARGES [Signature]

DISCOUNT IF PAID IN 30 DAYS



Dual Induction Log

DIGITAL LOG (785) 625-3858

API No.		Company Larson Engineering, Inc.	
15-101-22,244-00-00		Well Stormont No. 2-27	
Field Stormont		County Lane State Kansas	
Location 580' FSL & 2222' FWL		Other Services CNL/CDL MEL	
Sec: 27 Twp: 19 S Rge: 28 W		Elevation	
Permanent Datum Ground Level		K.B. 2775	
Log Measured From Kelly Bushing		D.F. 2768	
Drilling Measured From Kelly Bushing		G.L. 2768	
Date	7/07/2010		
Run Number	One		
Depth Driller	4700		
Depth Logger	4702		
Bottom Logged Interval	4701		
Top Log Interval	250		
Casing Driller	8.625 @ 259		
Casing Logger	256		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	2.600		
Density / Viscosity	9.1 54		
pH / Fluid Loss	10.5 8.0		
Source of Sample	Flowline		
Rm @ Meas. Temp	.95 @ 70		
Rmf @ Meas. Temp	.71 @ 70		
Rmc @ Meas. Temp	1.28 @ 70		
Source of Rmf / Rmc	Charts		
Rm @ BHT	.53 @ 125		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	125		
Equipment Number	4		
Location	Hays		
Recorded By	K. Bange		
Witnessed By	Bob Lewellyn		

<<< Fold Here >>>

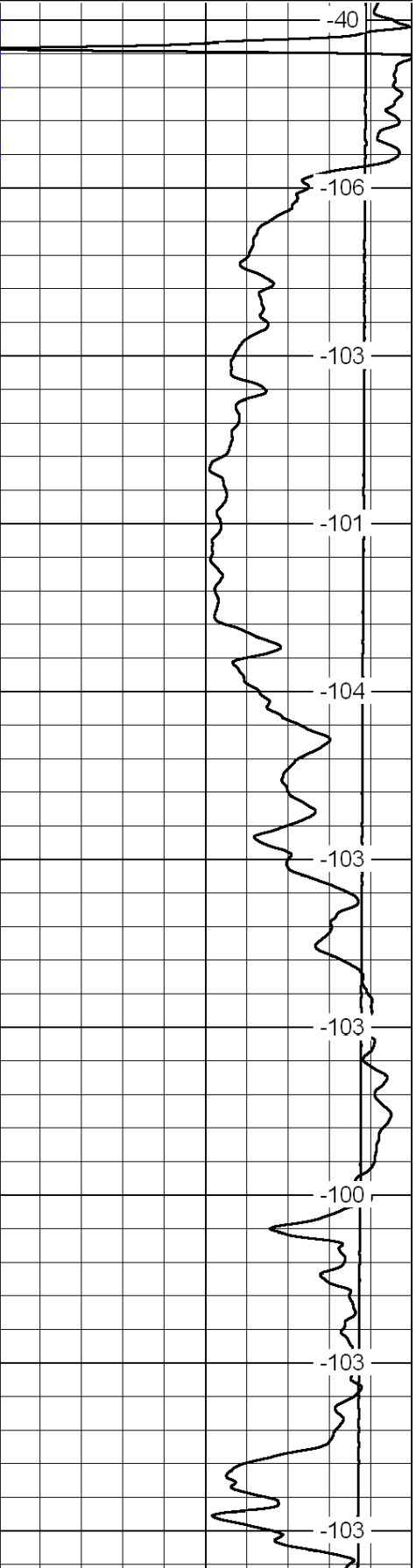
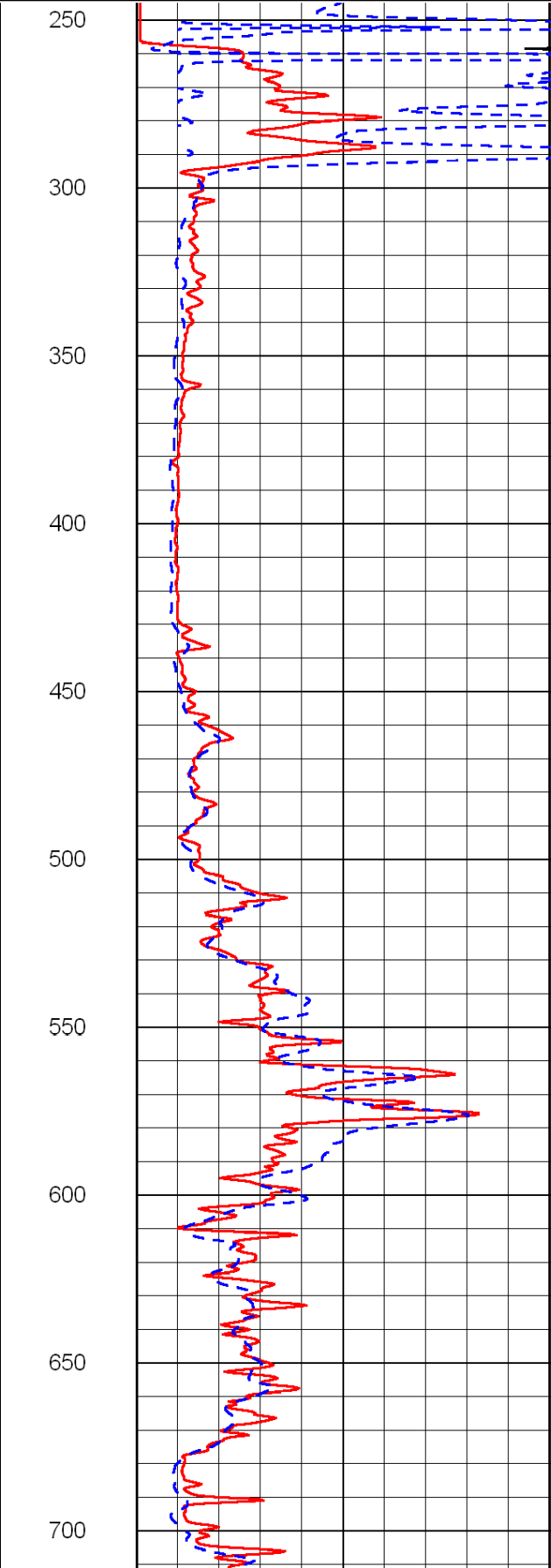
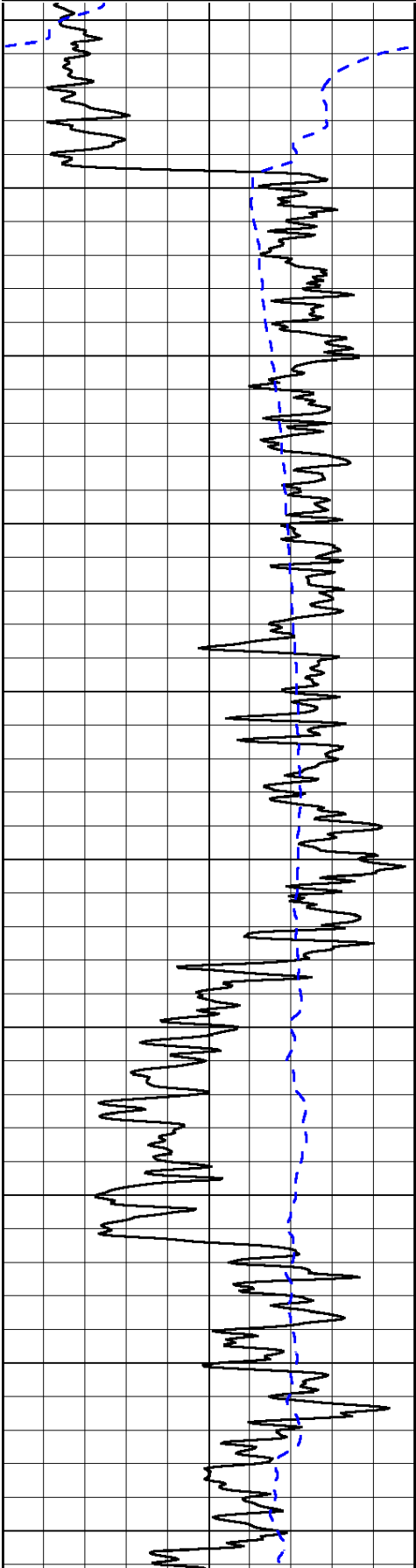
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

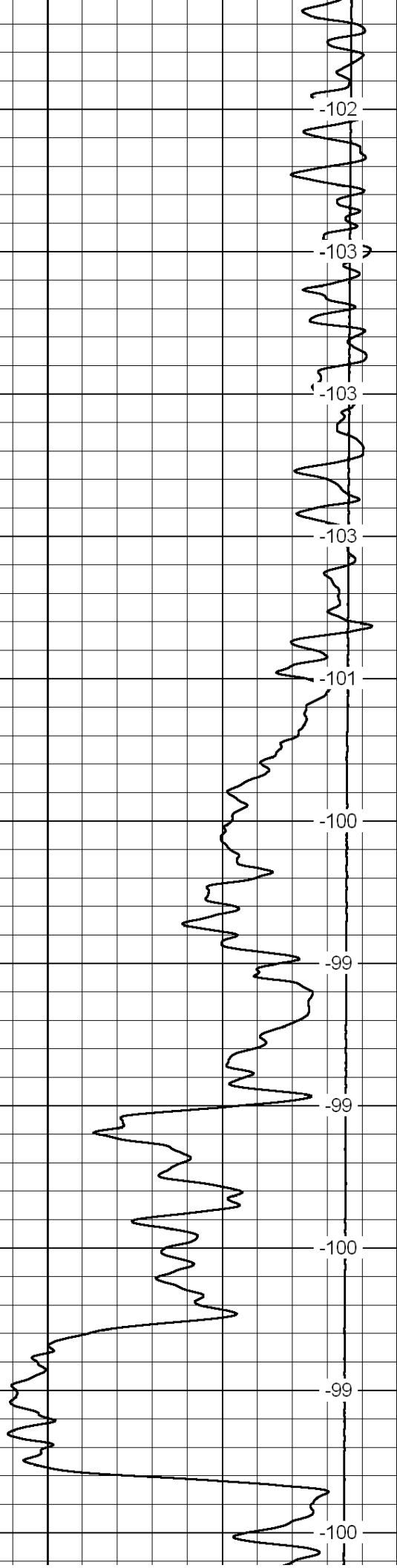
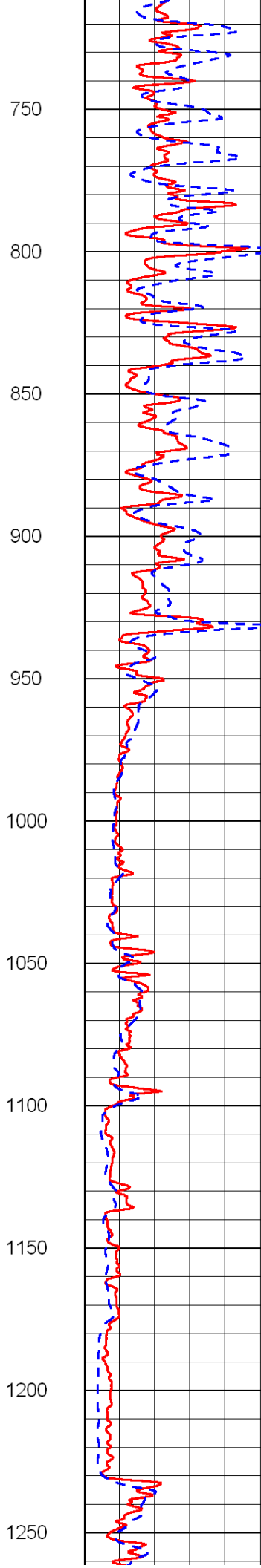
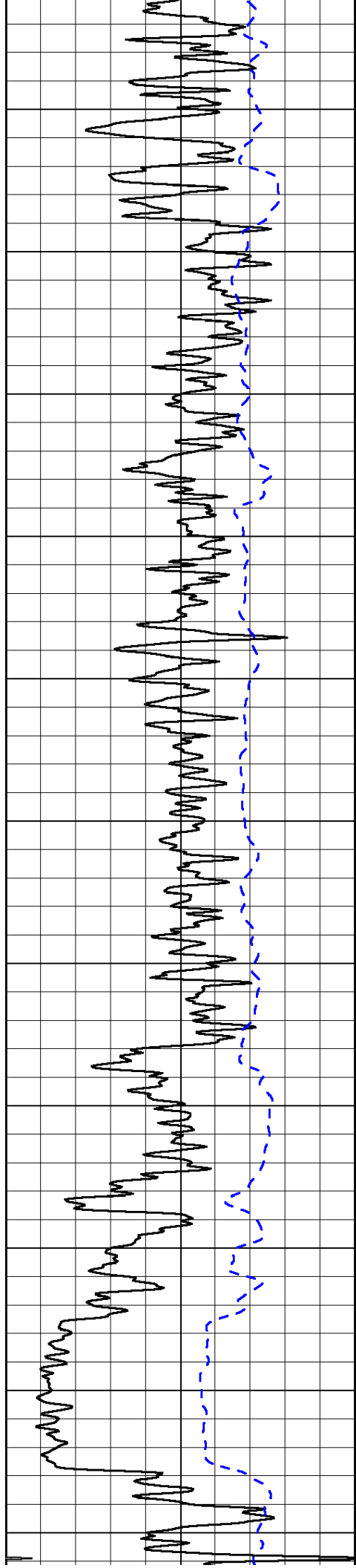
Comments

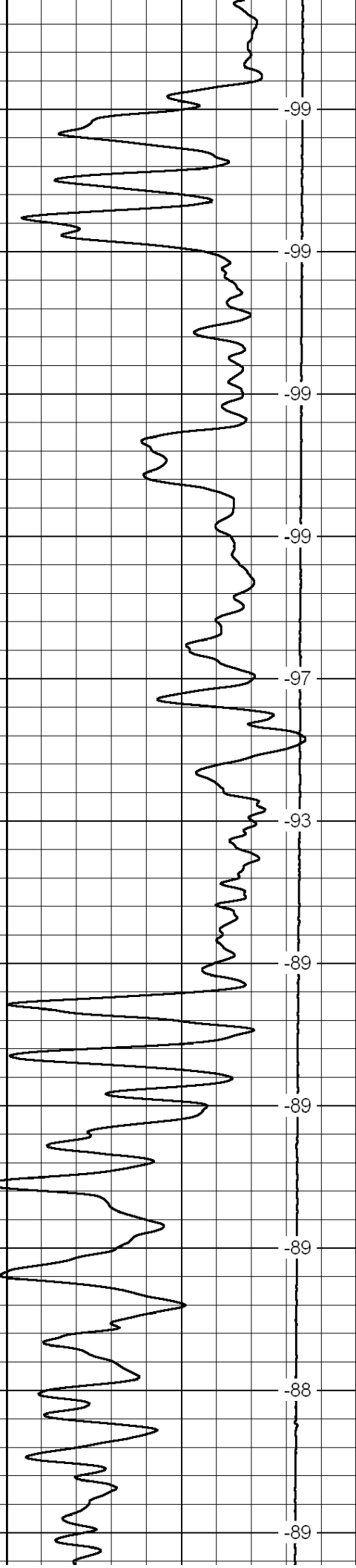
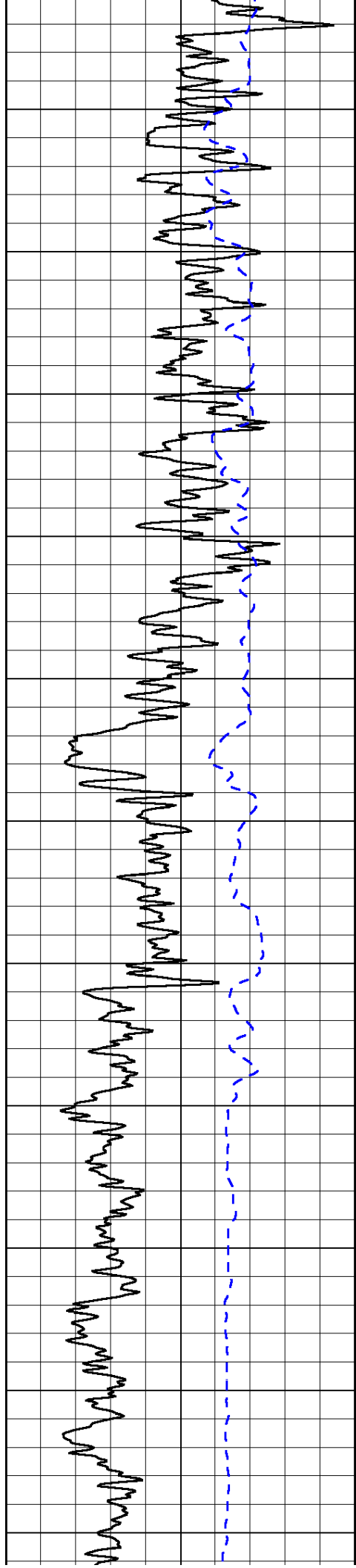
Thank you for using Log-Tech, Inc.
(785) 625-3858

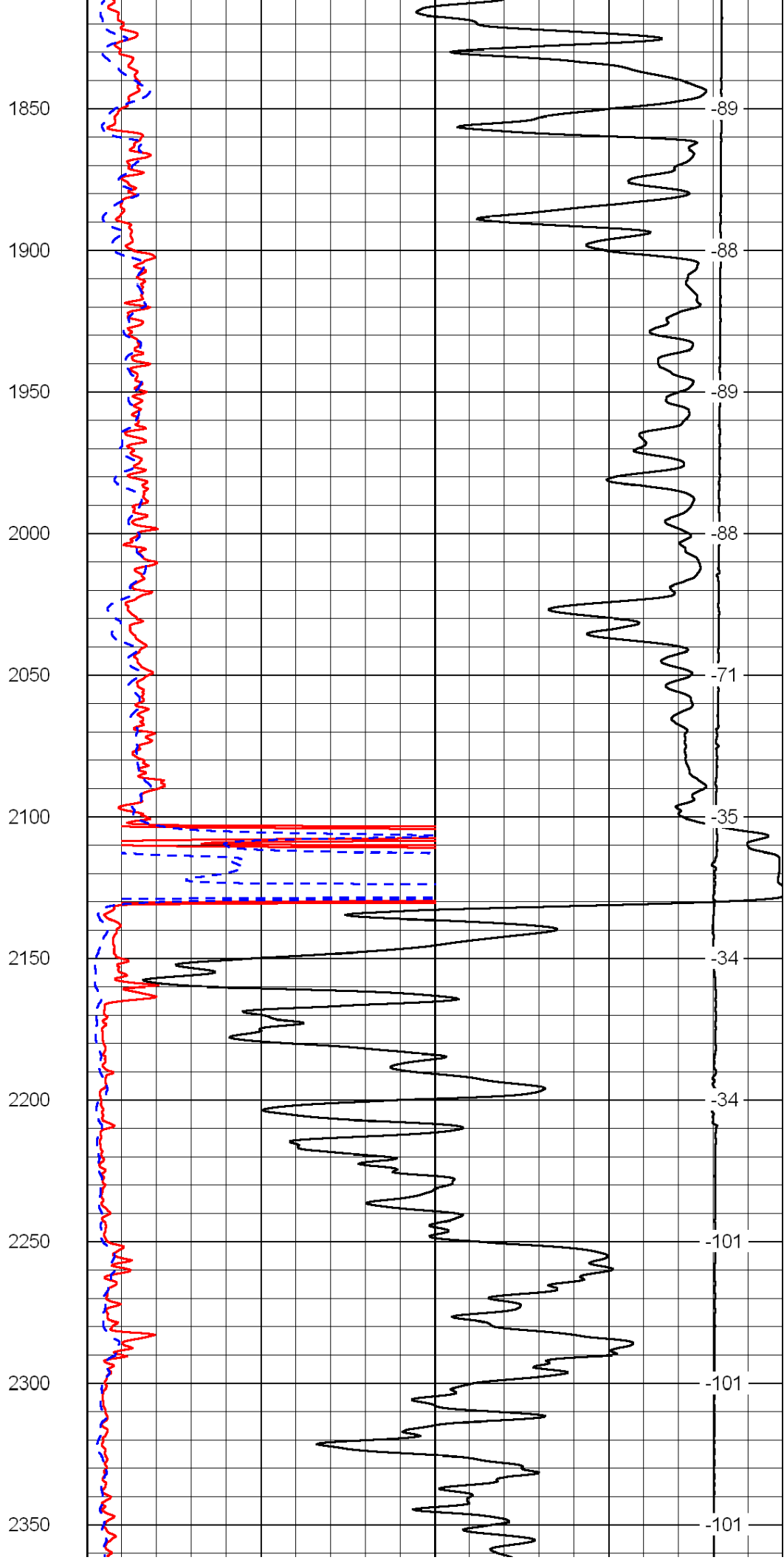
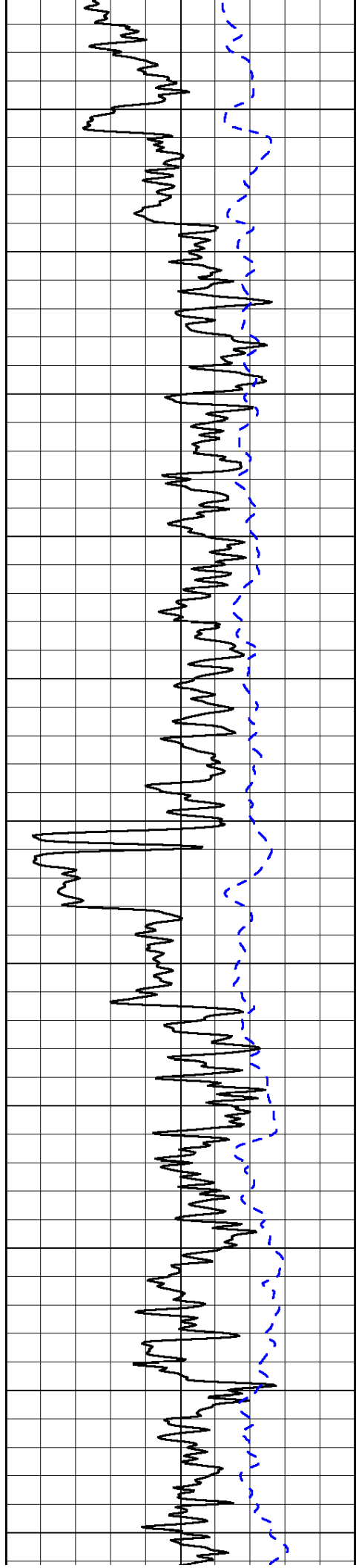
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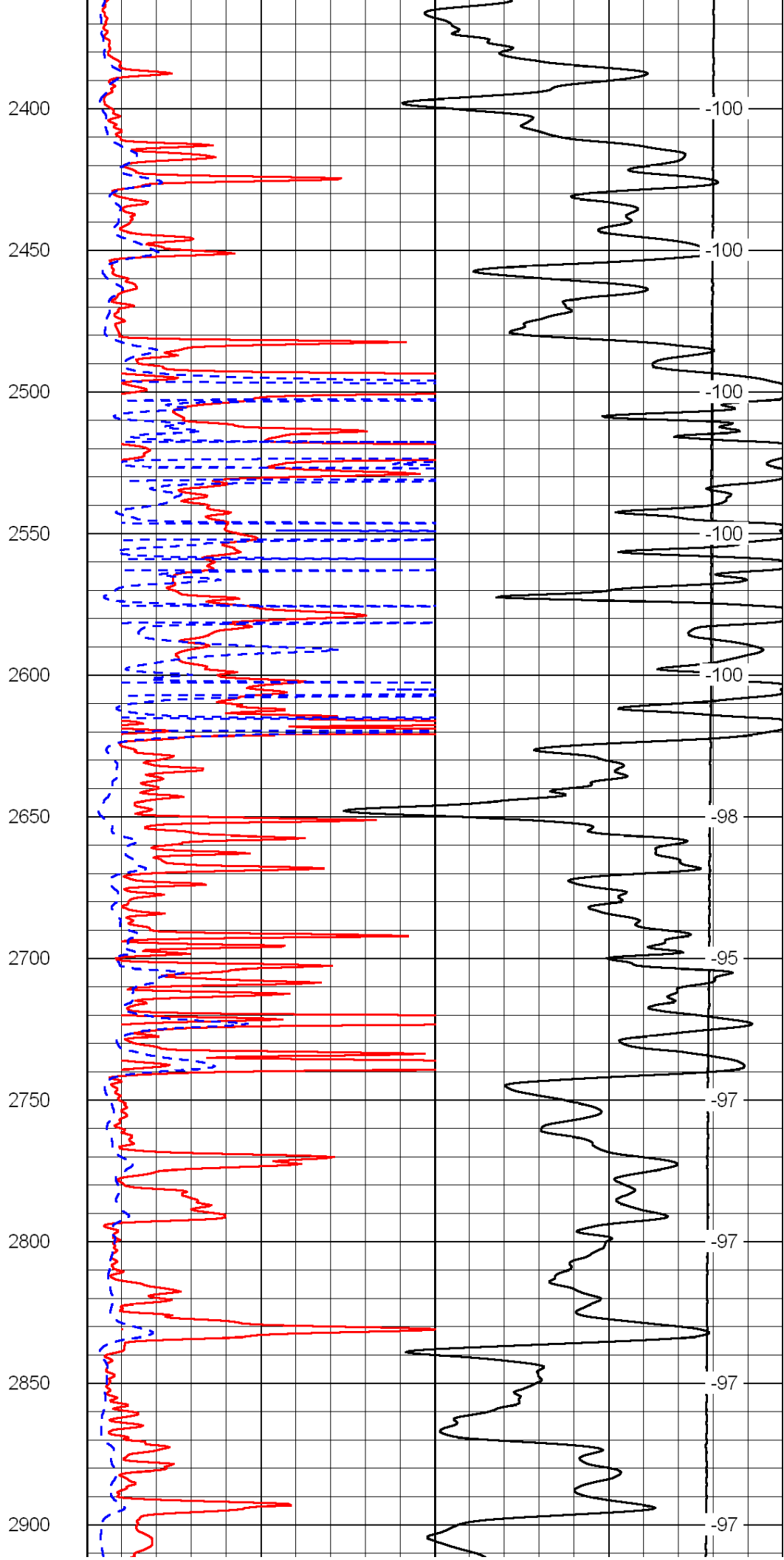
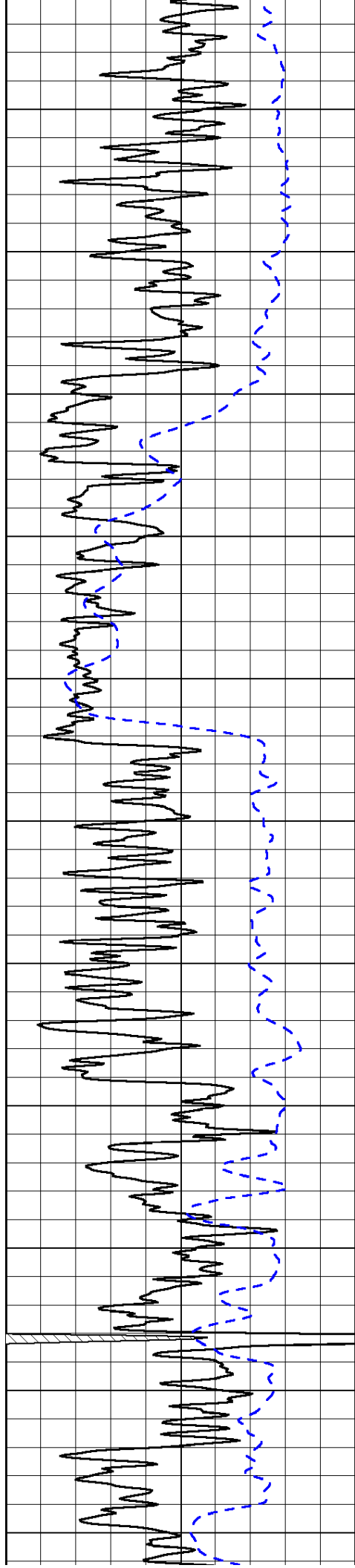
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-200	SP (mV)	0	0	Deep Resistivity	50			
			1000	Conductivity		0		
			15000	Line Tension		0		
			50	Shallow Resistivity	500			
			50	Deep Resistivity	500			

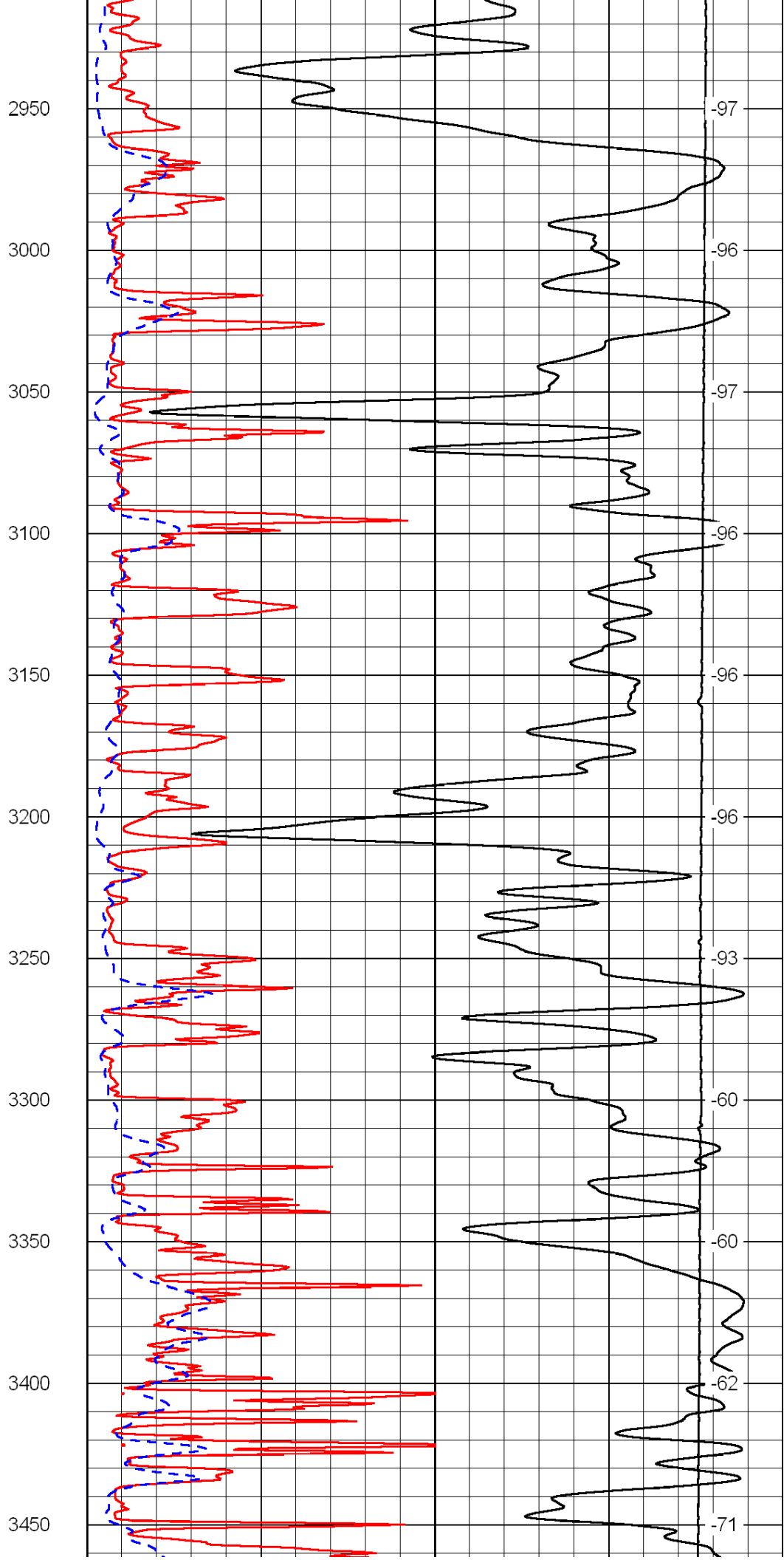
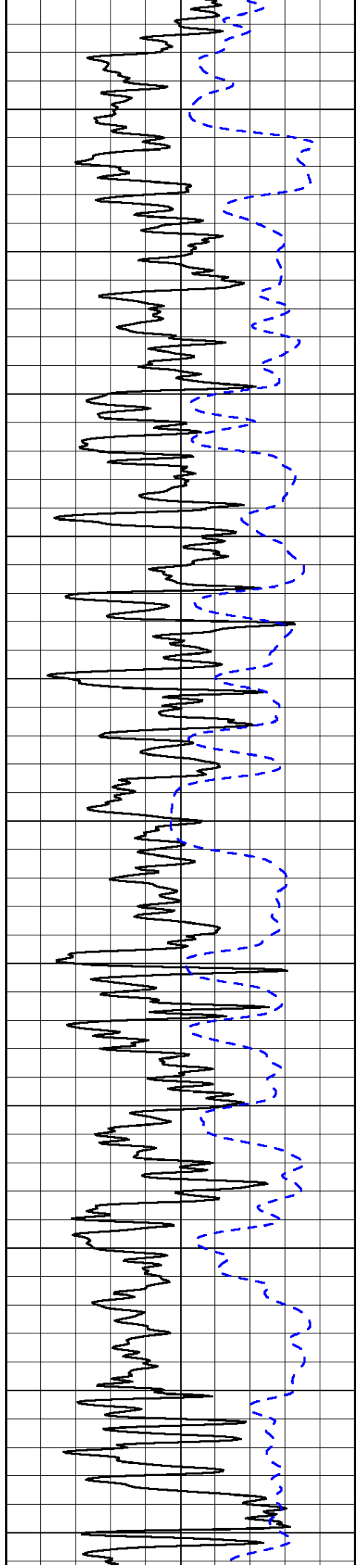


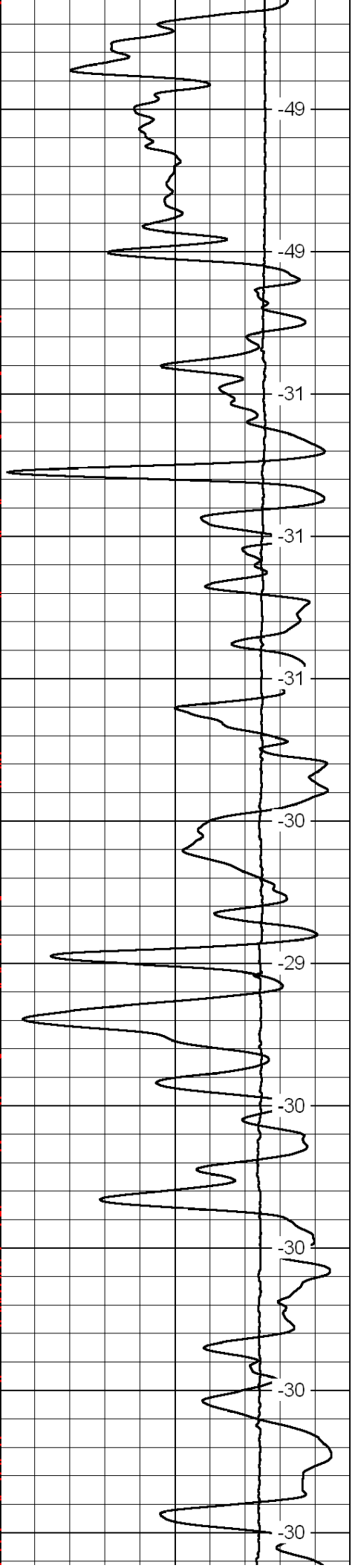
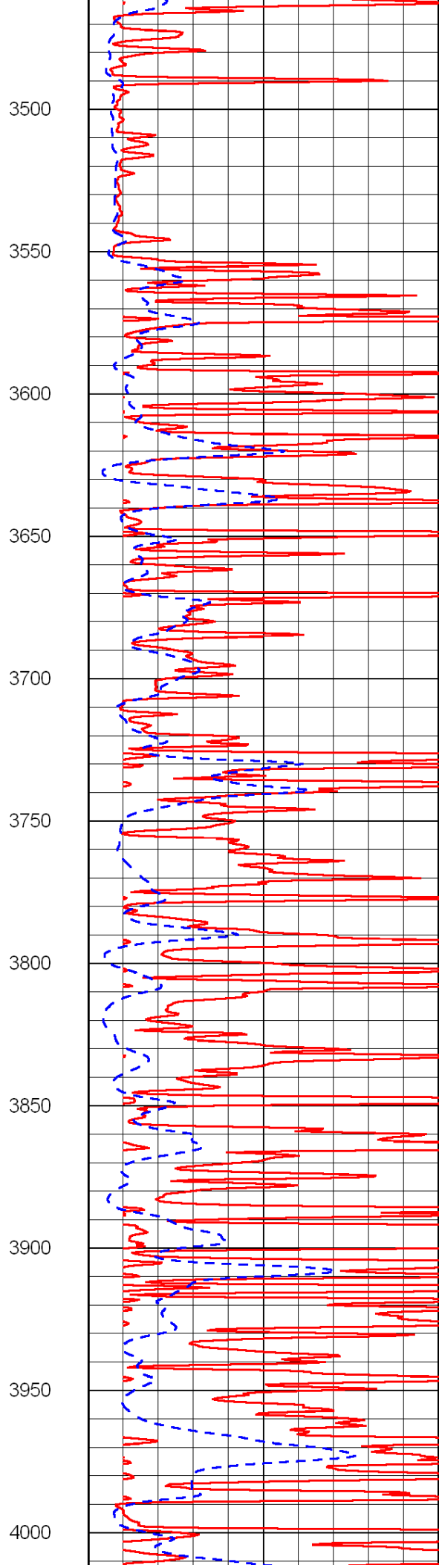
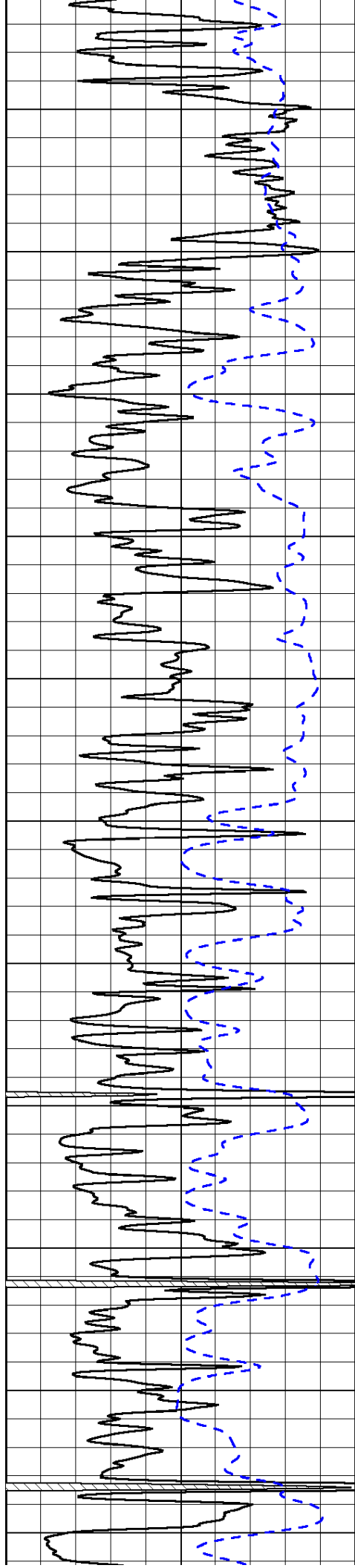


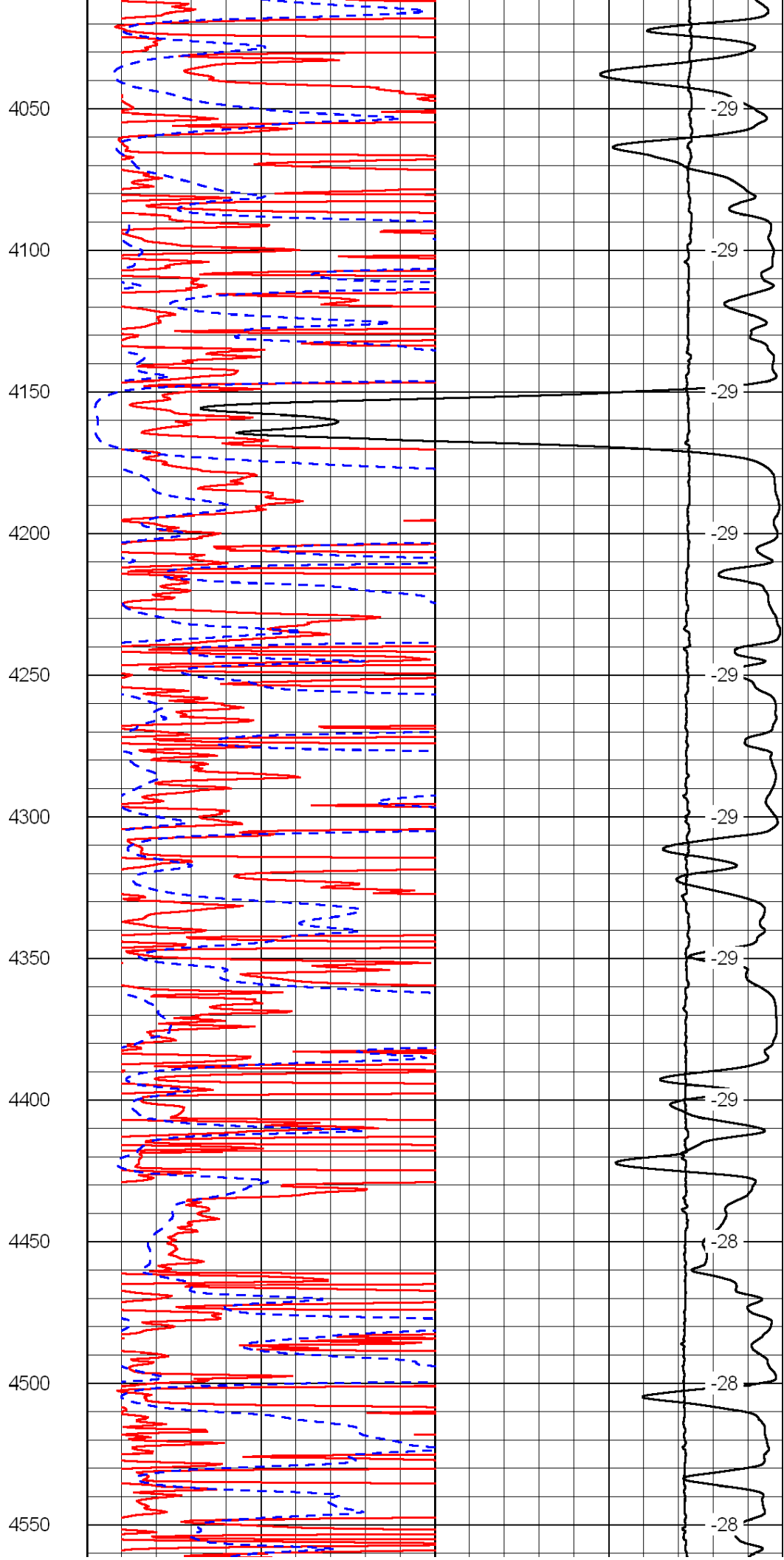
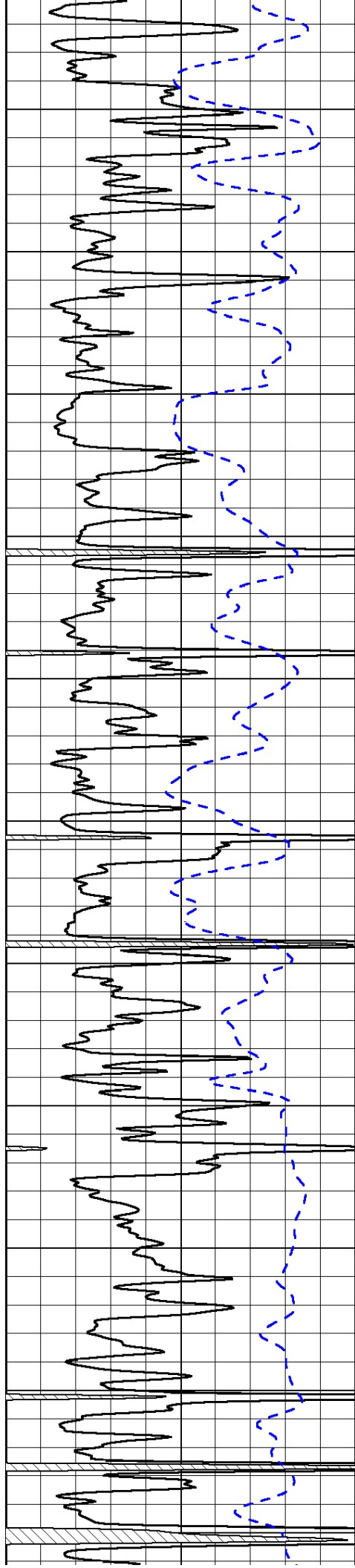


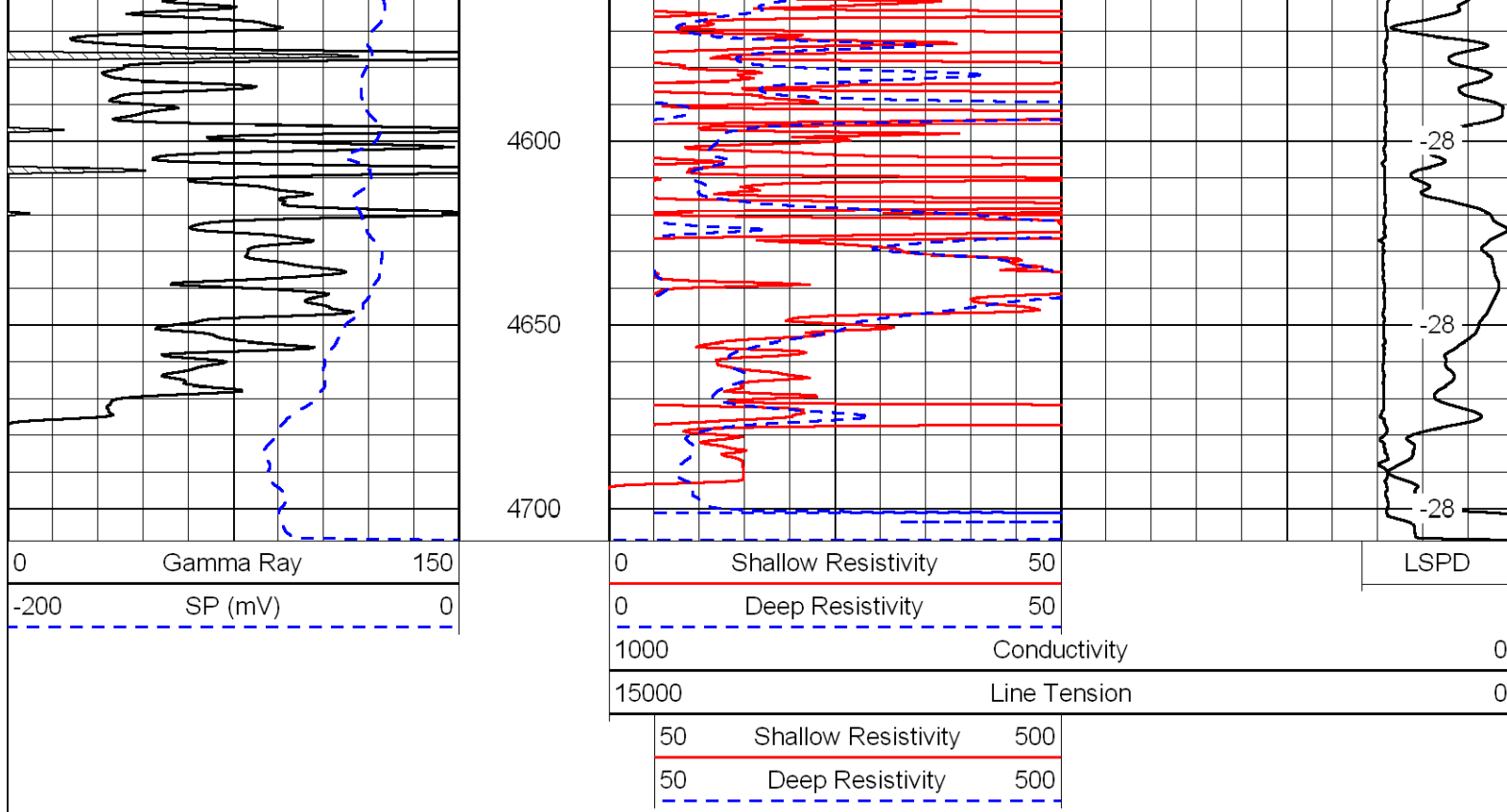




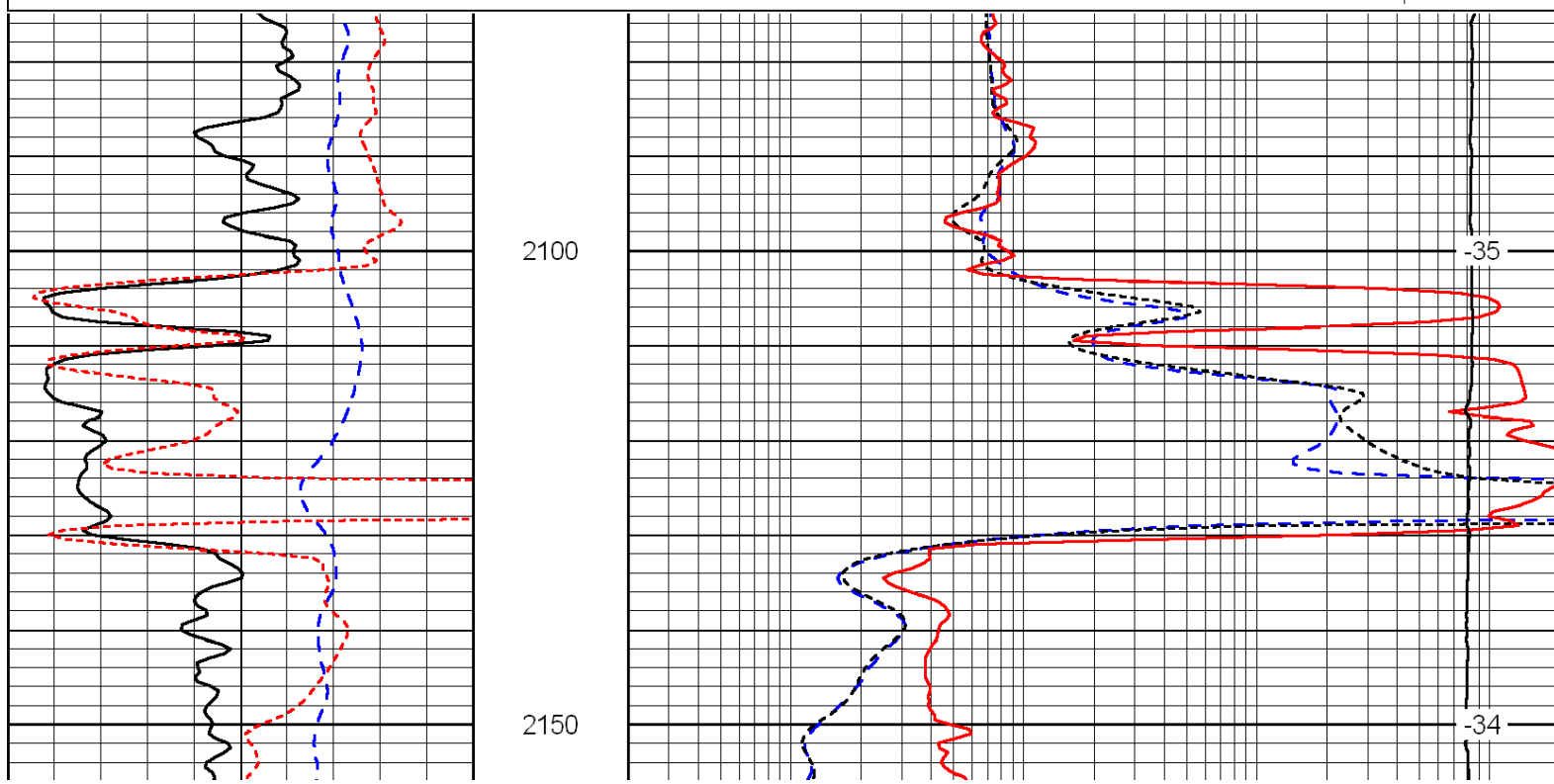
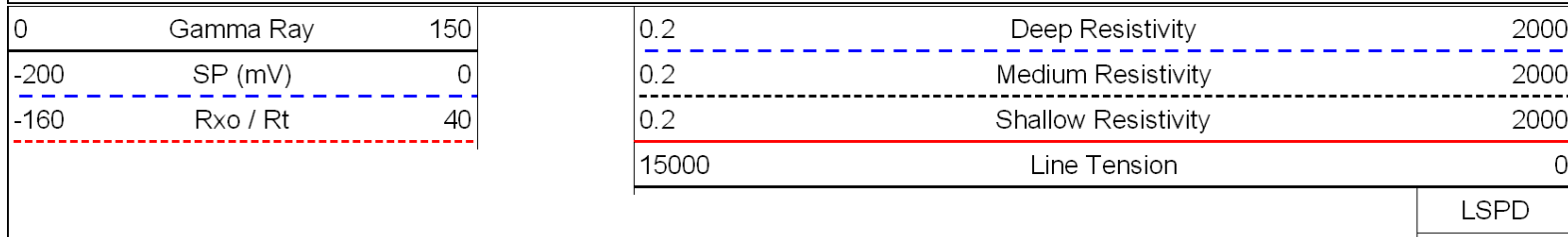


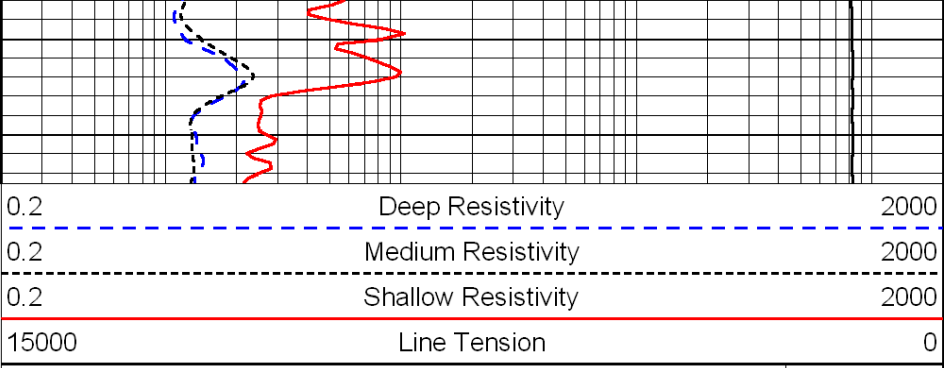
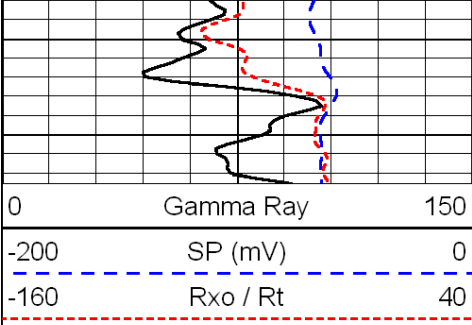






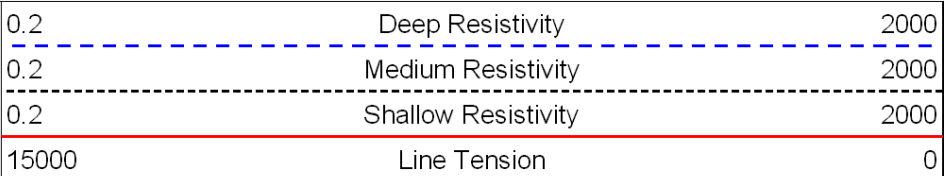
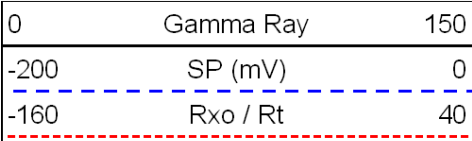
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Presentation Format: dil
Dataset Creation: Wed Jul 07 07:47:54 2010
Charted by: Depth in Feet scaled 1:240



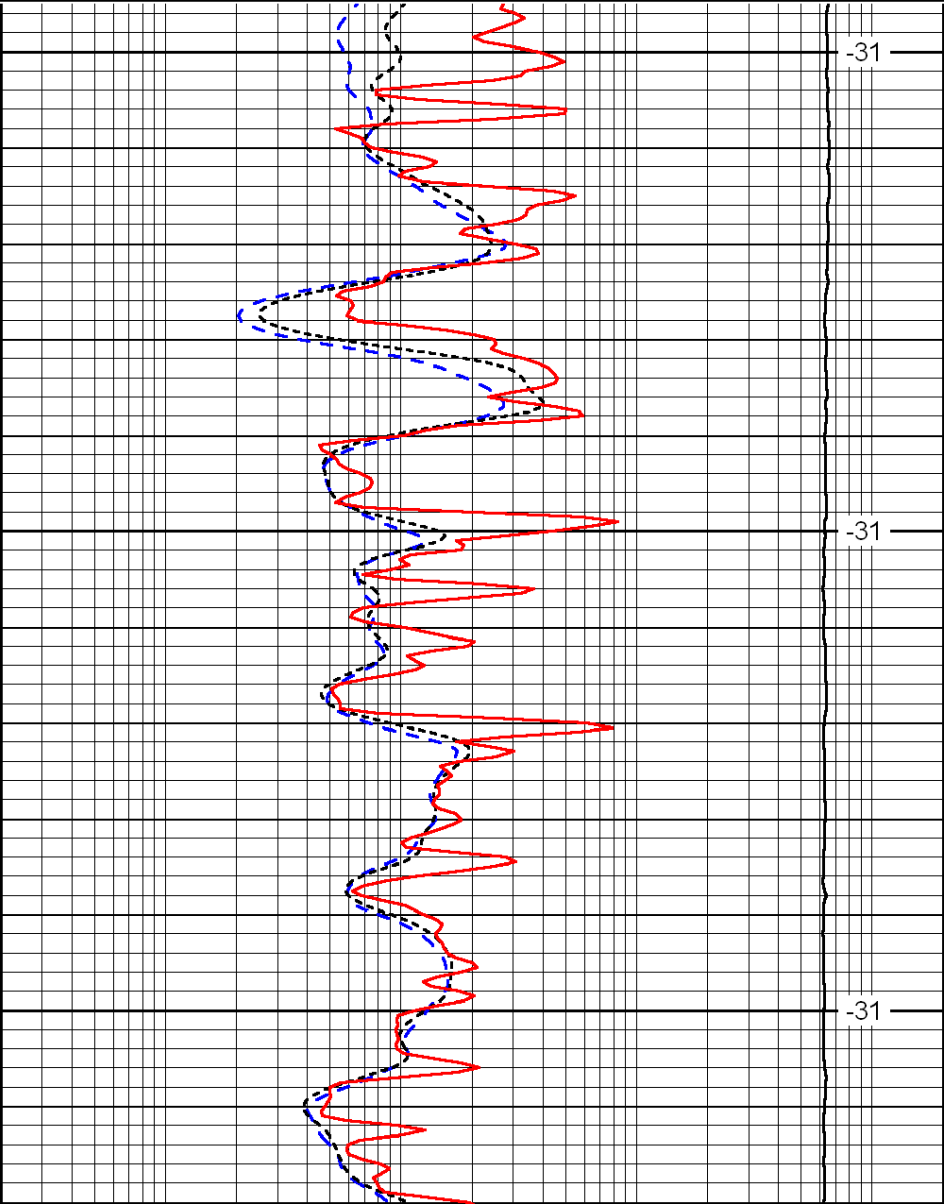
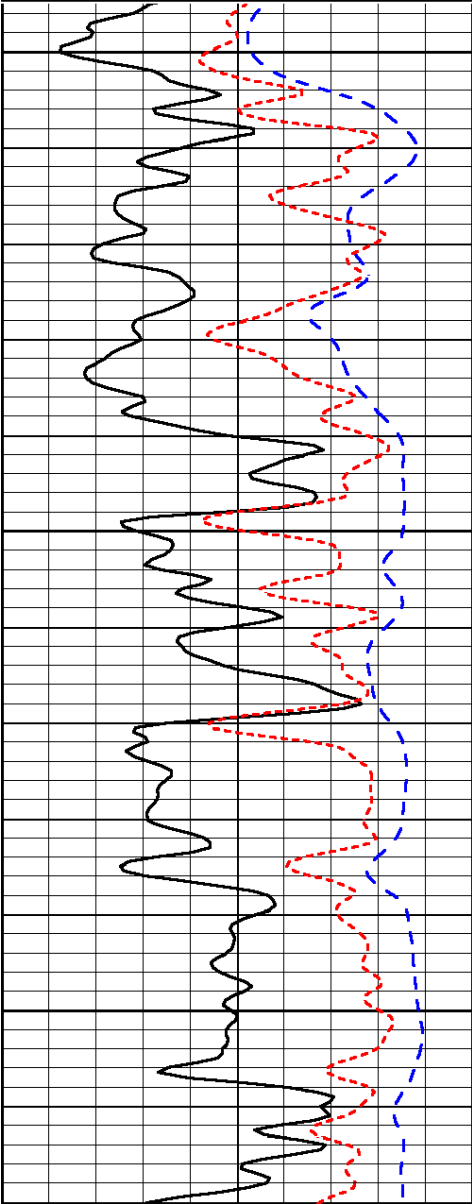


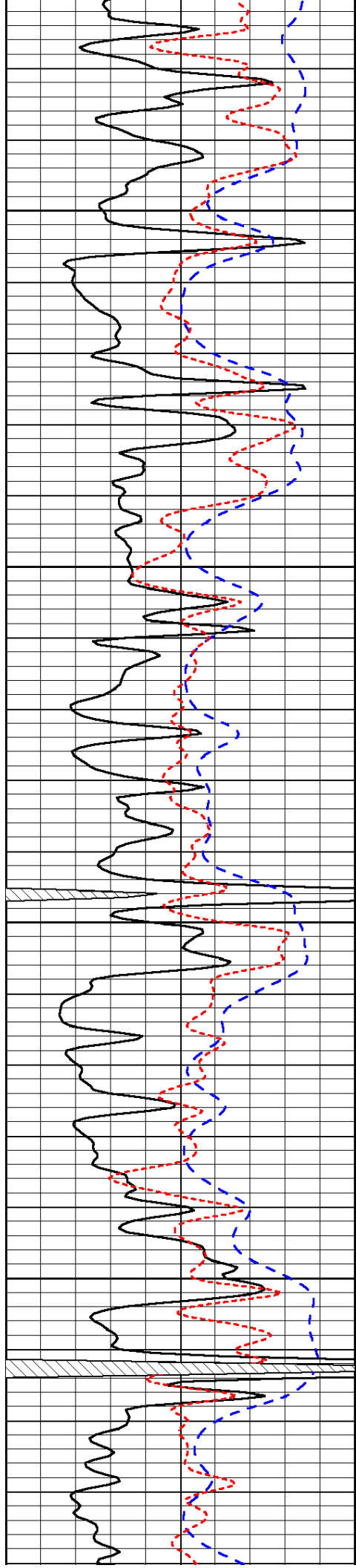
LSPD

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Dataset Creation: Wed Jul 07 07:47:54 2010
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LSPD



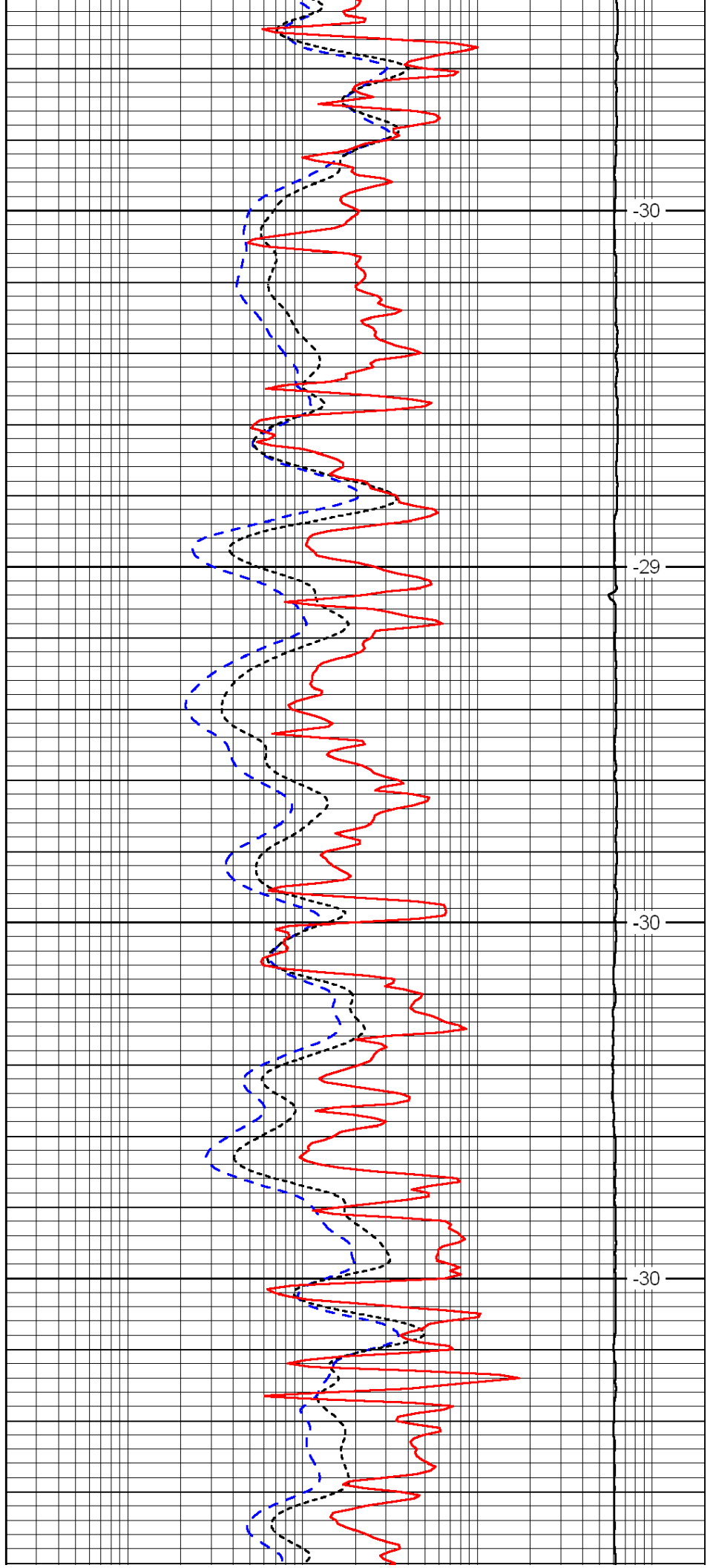


3750

3800

3850

3900

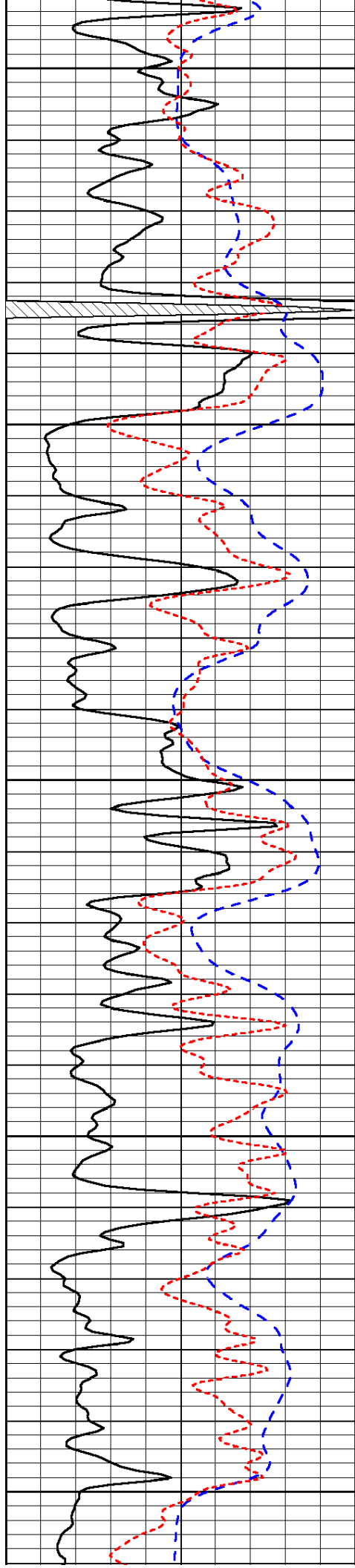


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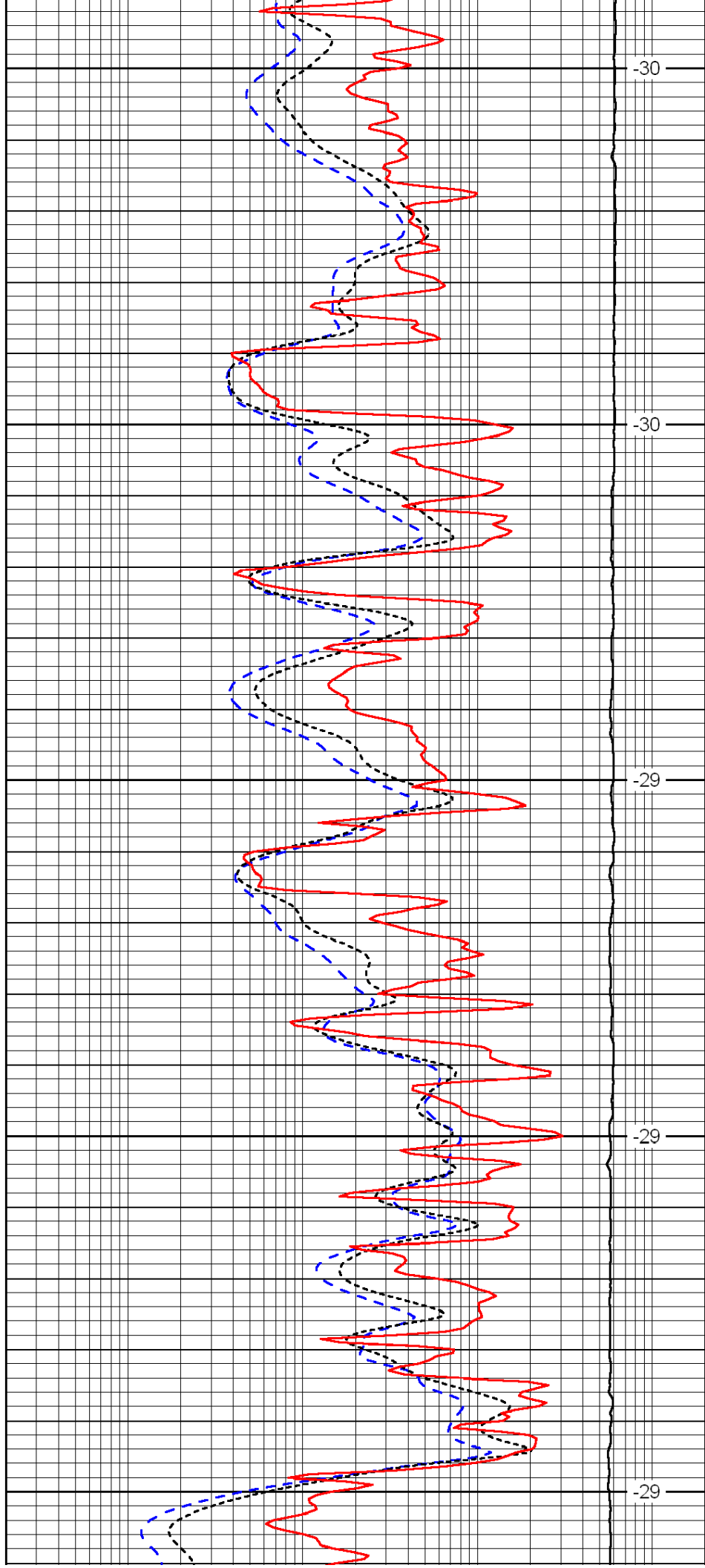
3950

4000

4050

4100

4150



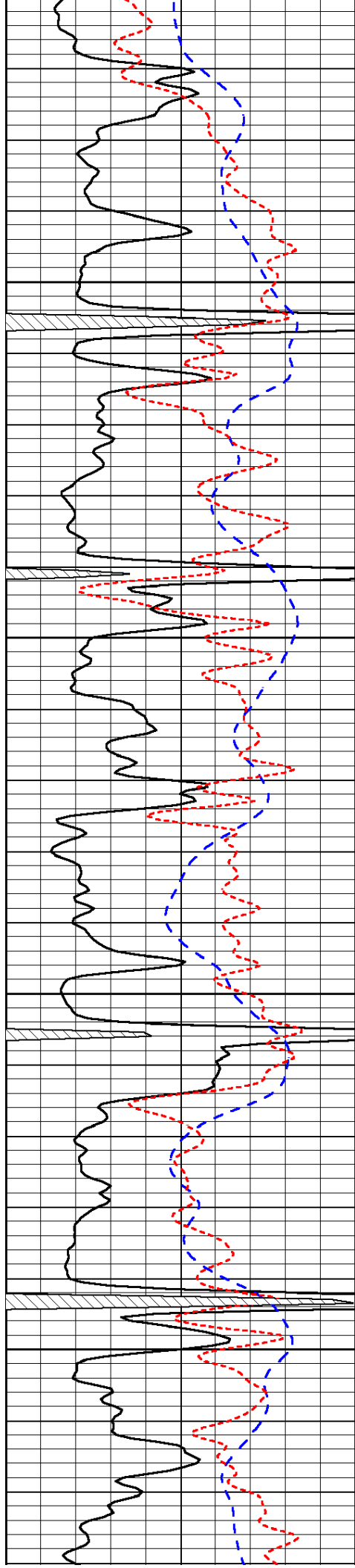
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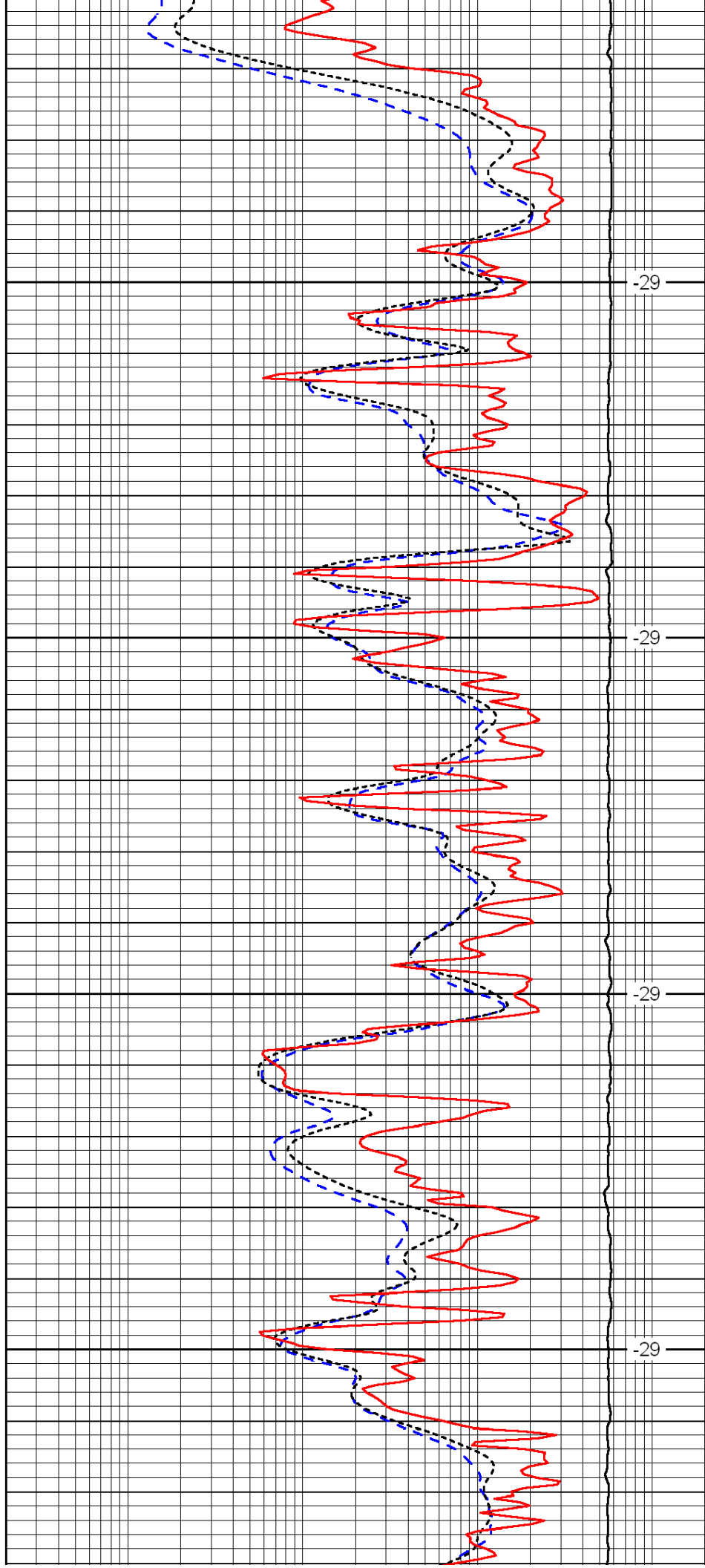


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4250

4300

4350

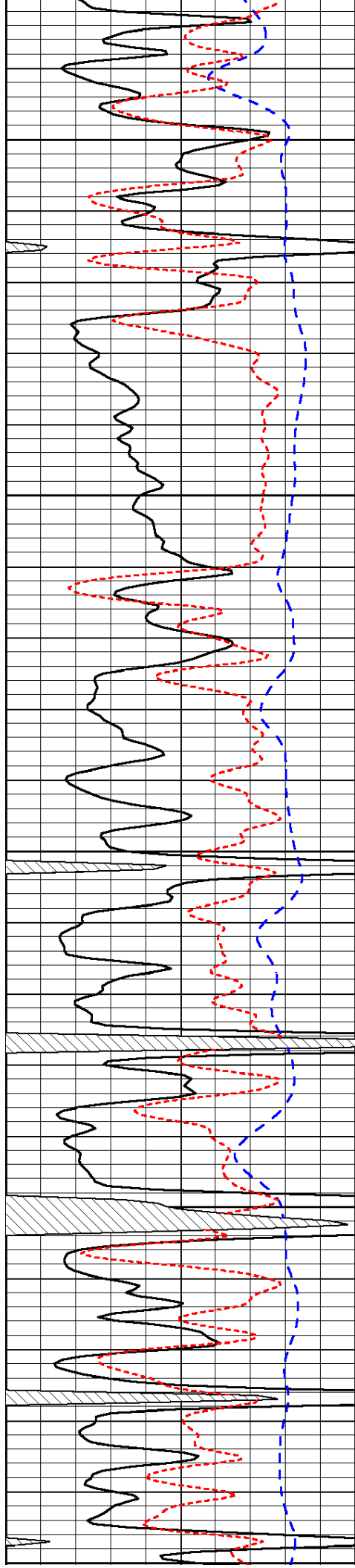


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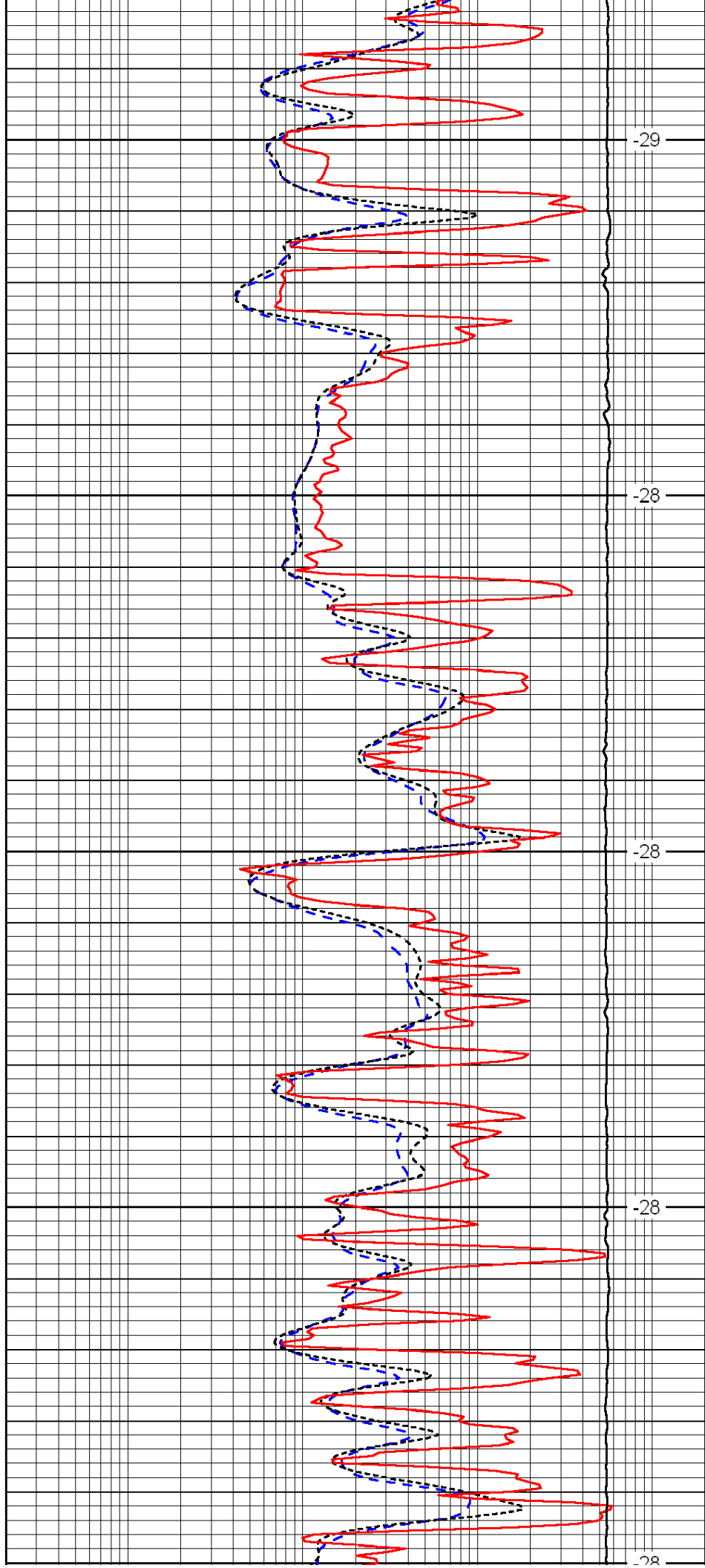
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4450

4500

4550

4600



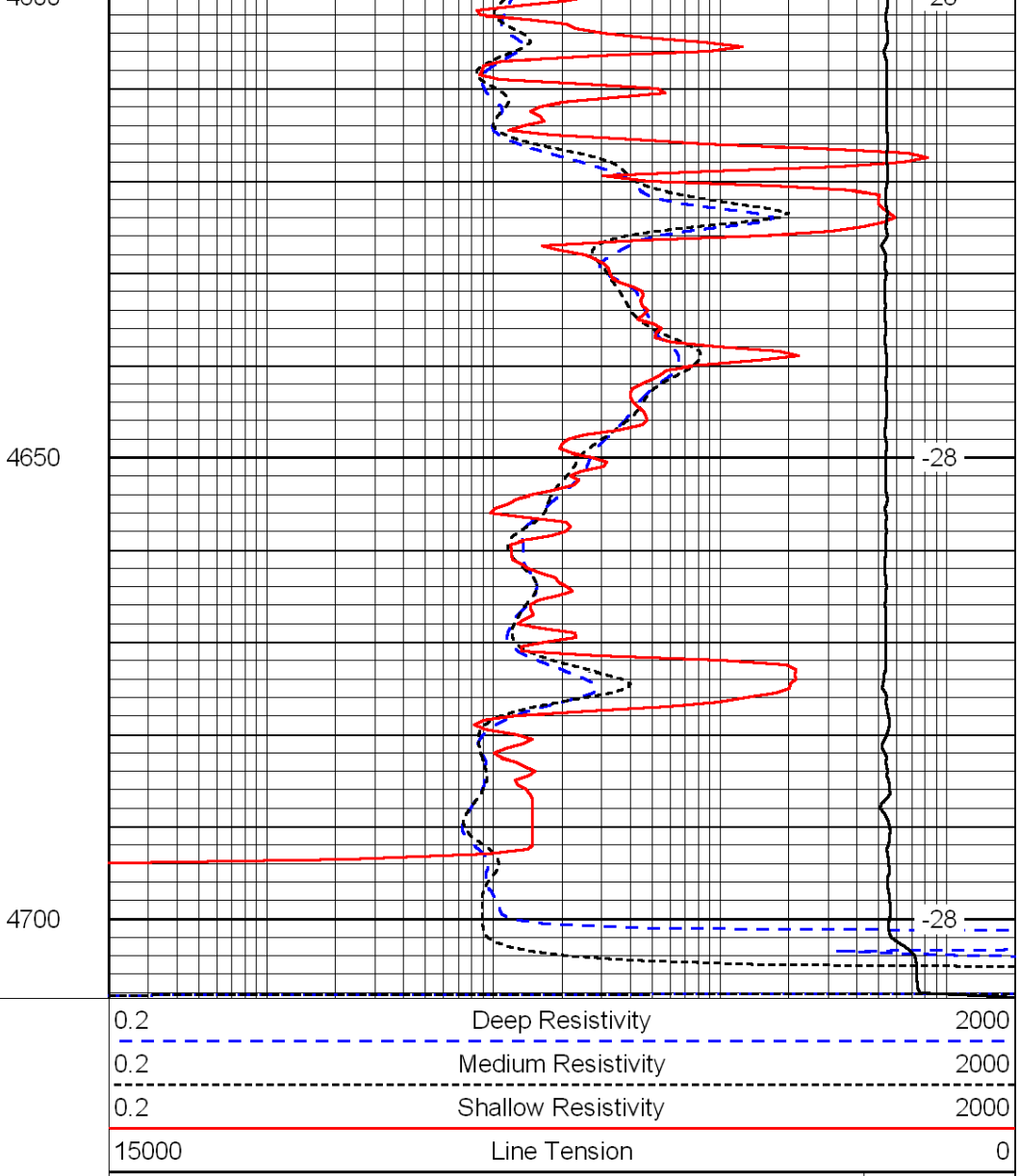
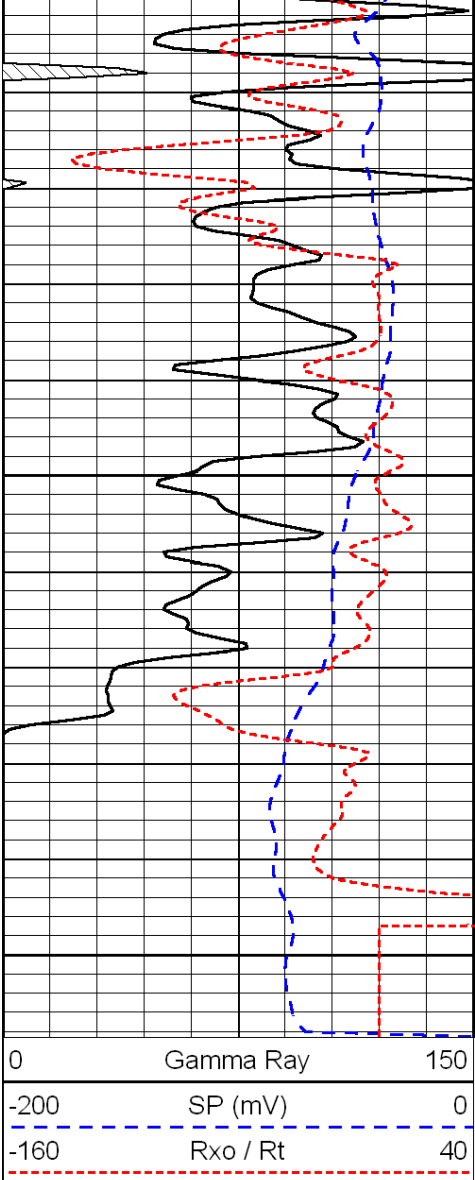
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LSPD

Dual Compensated Porosity Log

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[illegible]

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

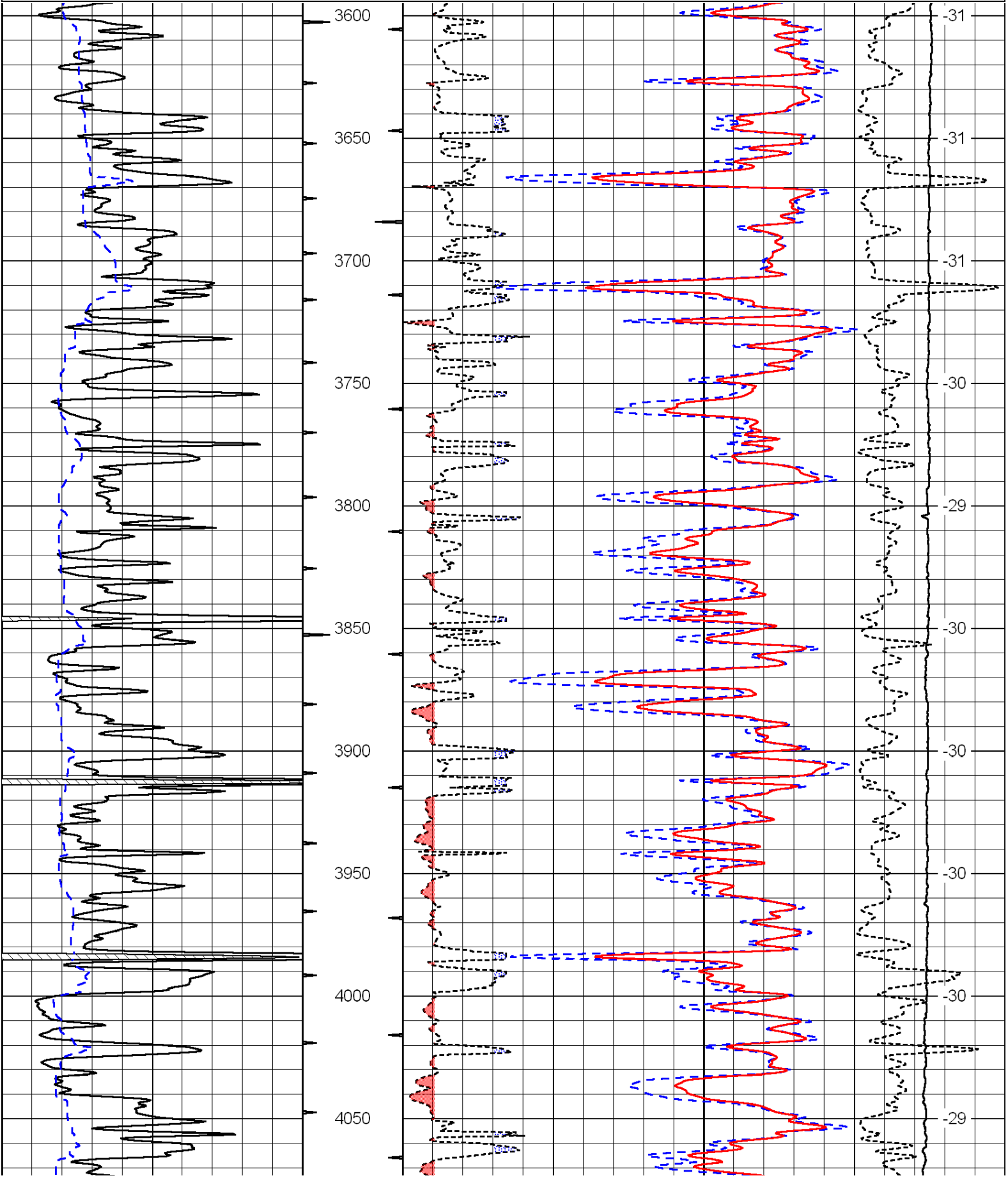
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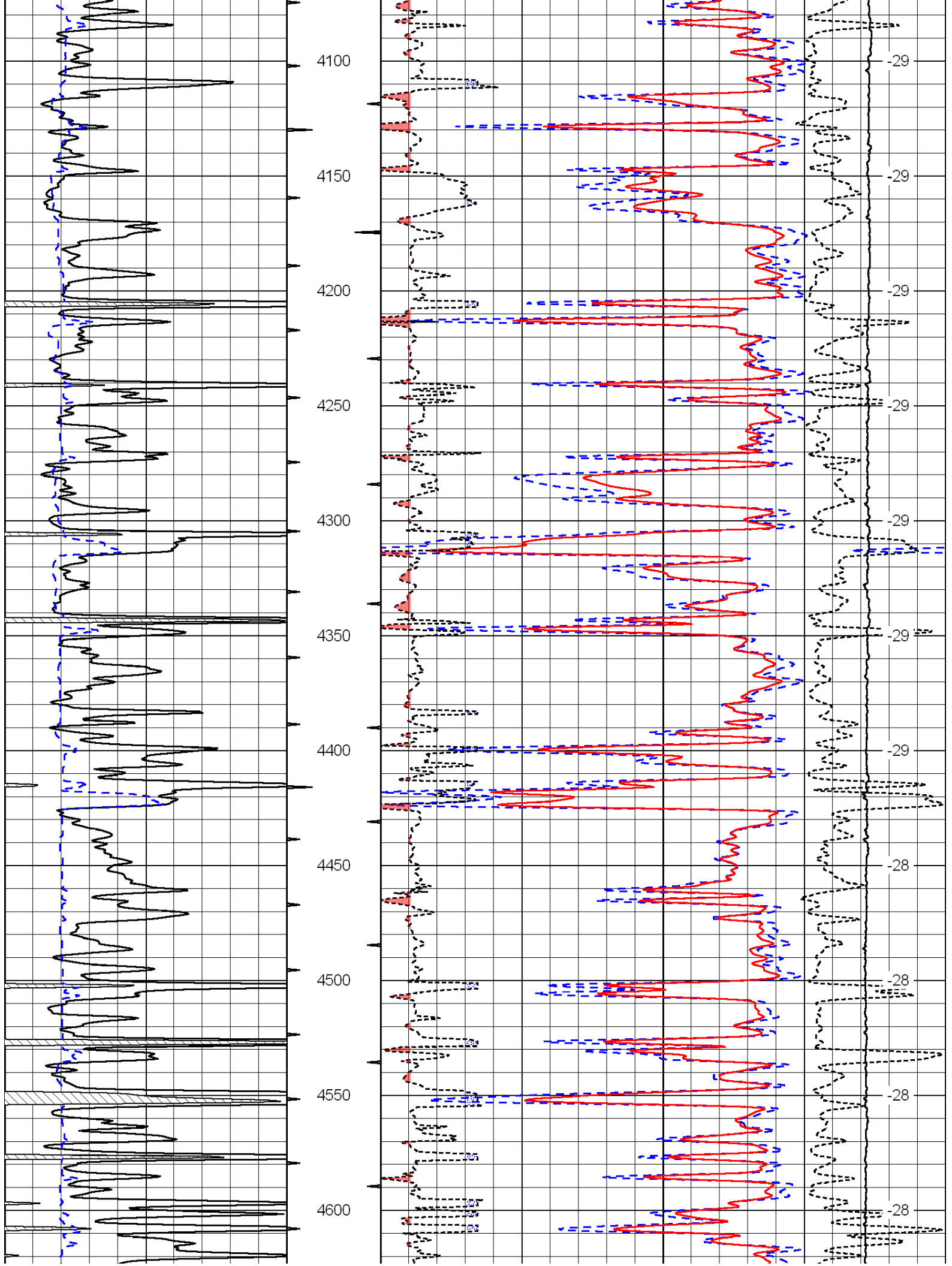
Dighton, 8 S to 70 rd, 3 1/2 W, N into

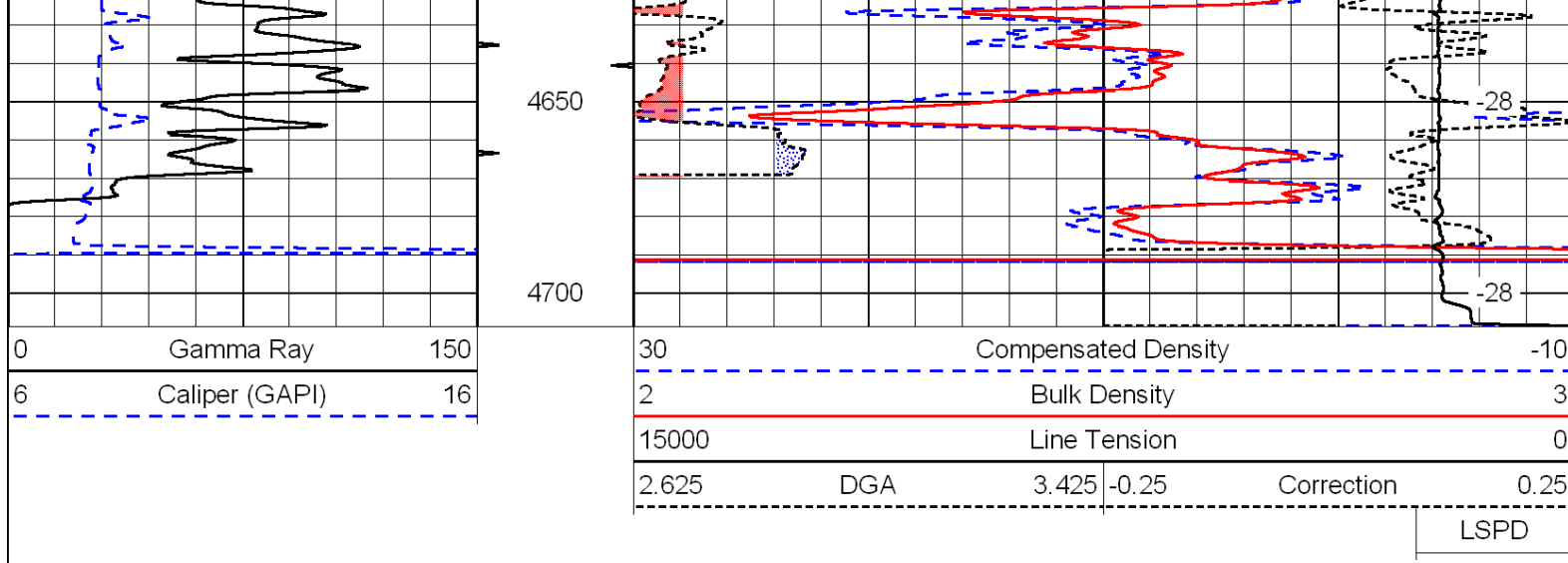
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Presentation Format: cdl
Dataset Creation: Wed Jul 07 07:47:54 2010
Charted by: Depth in Feet scaled 1:600

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6	Caliper (GAPI)	16

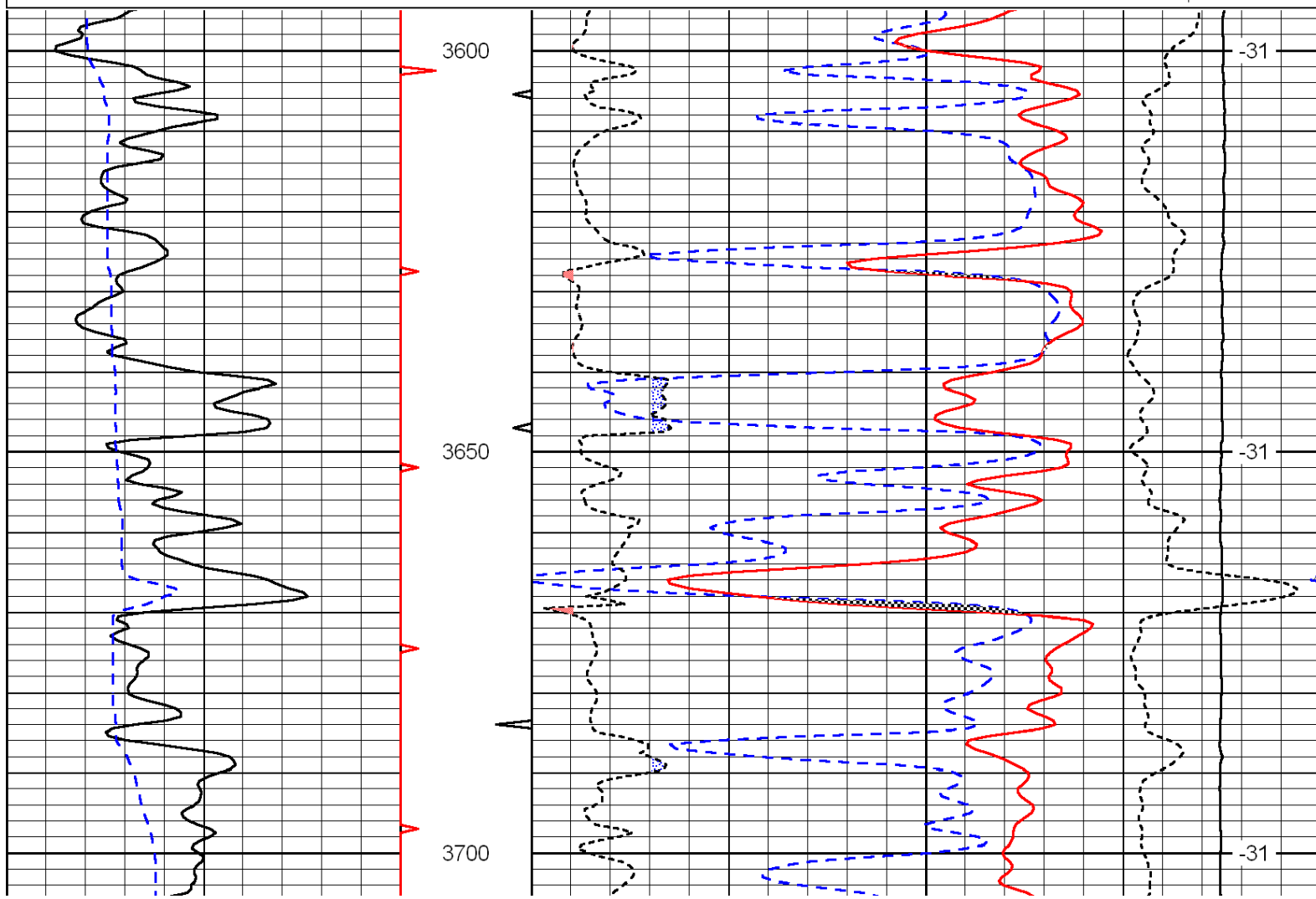
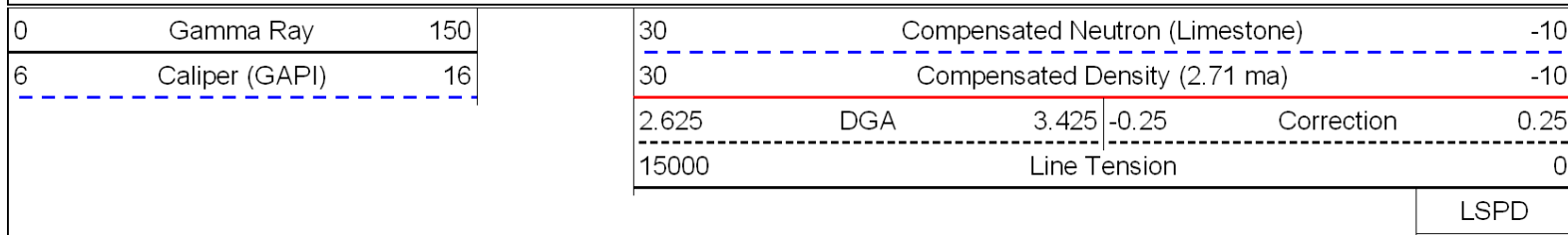
30	Compensated Density		-10
2	Bulk Density		3
15000	Line Tension		0
2.625	DGA	3.425	-0.25
		Correction	0.25
LSPD			

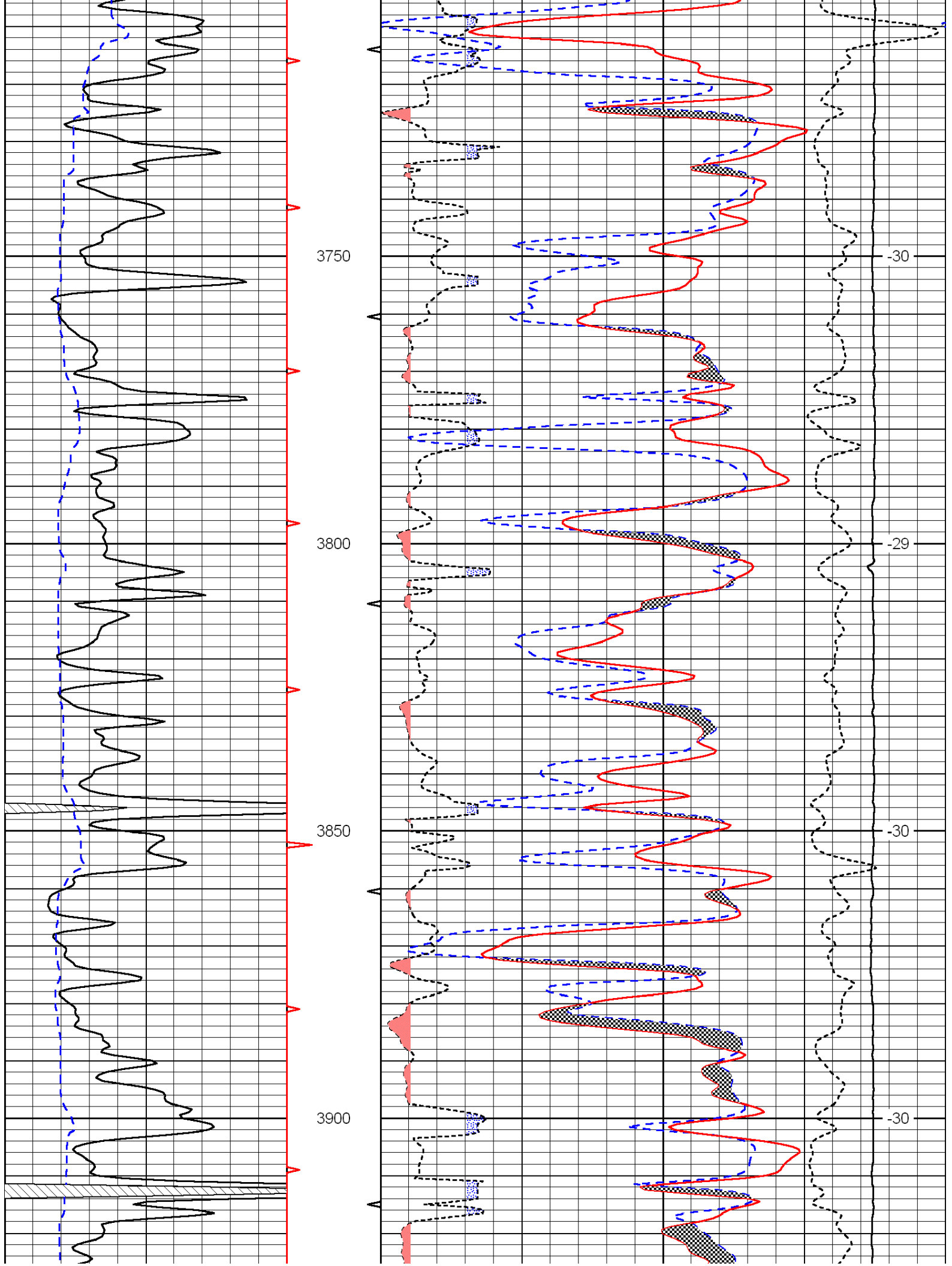


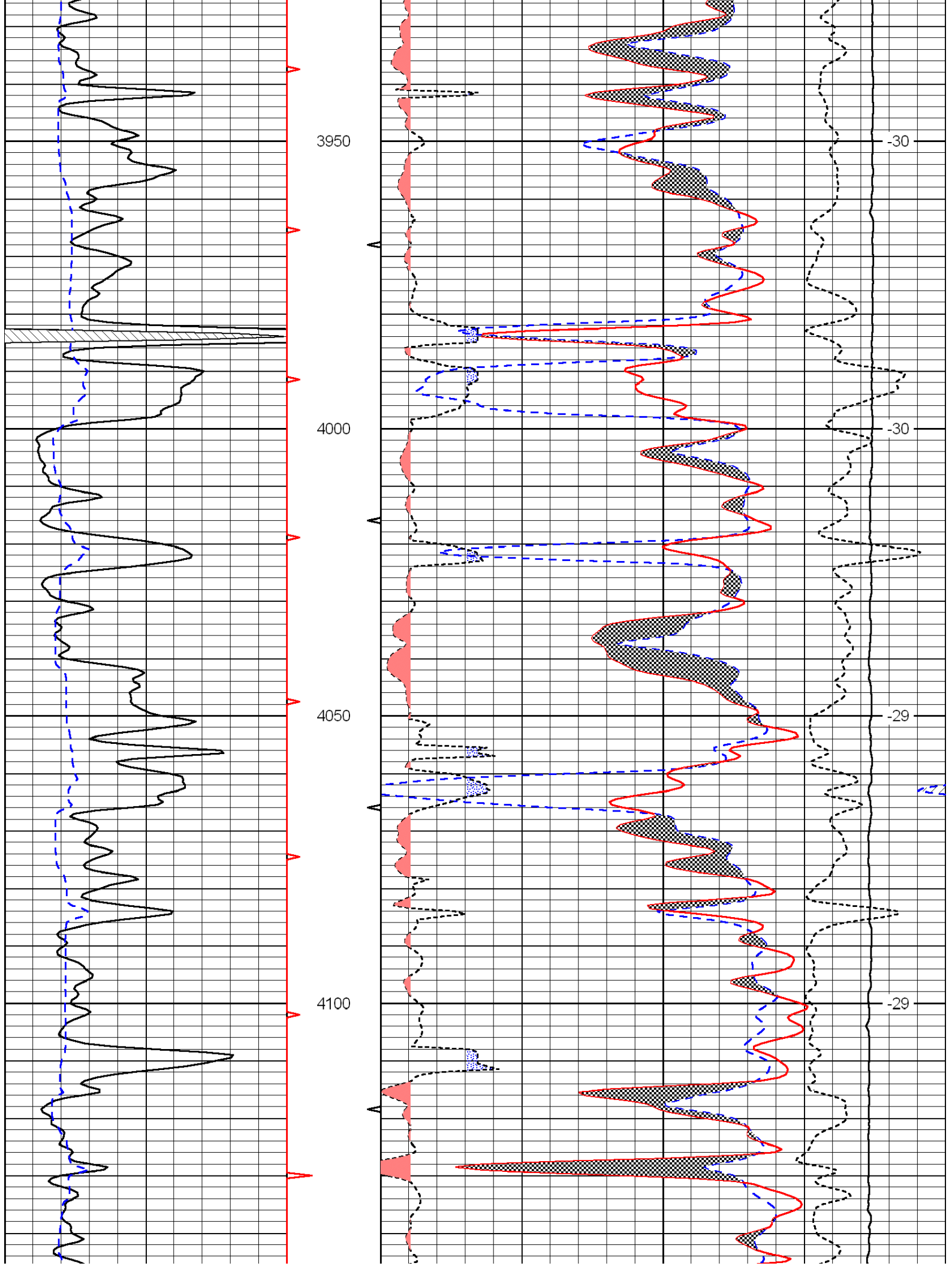


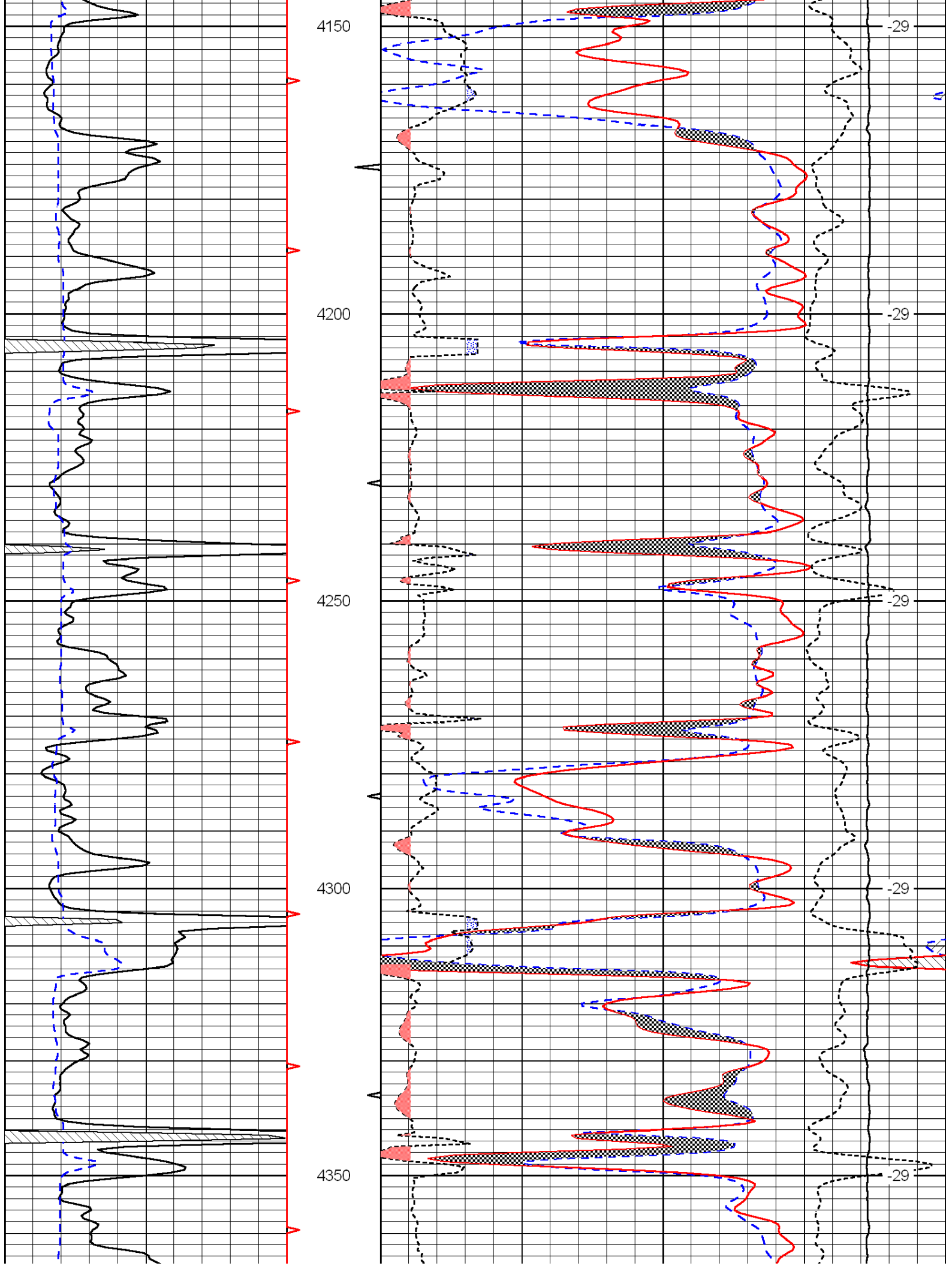


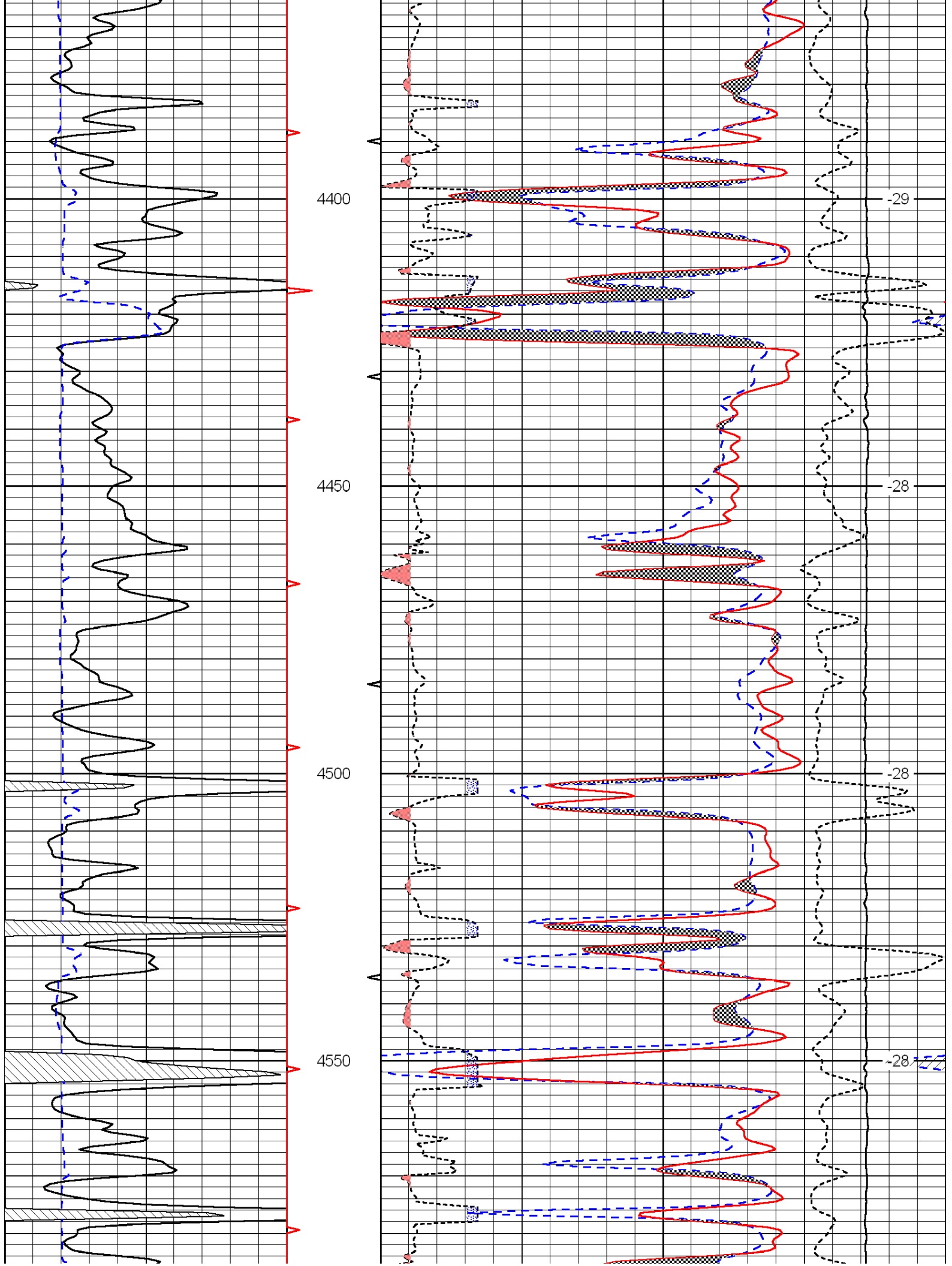
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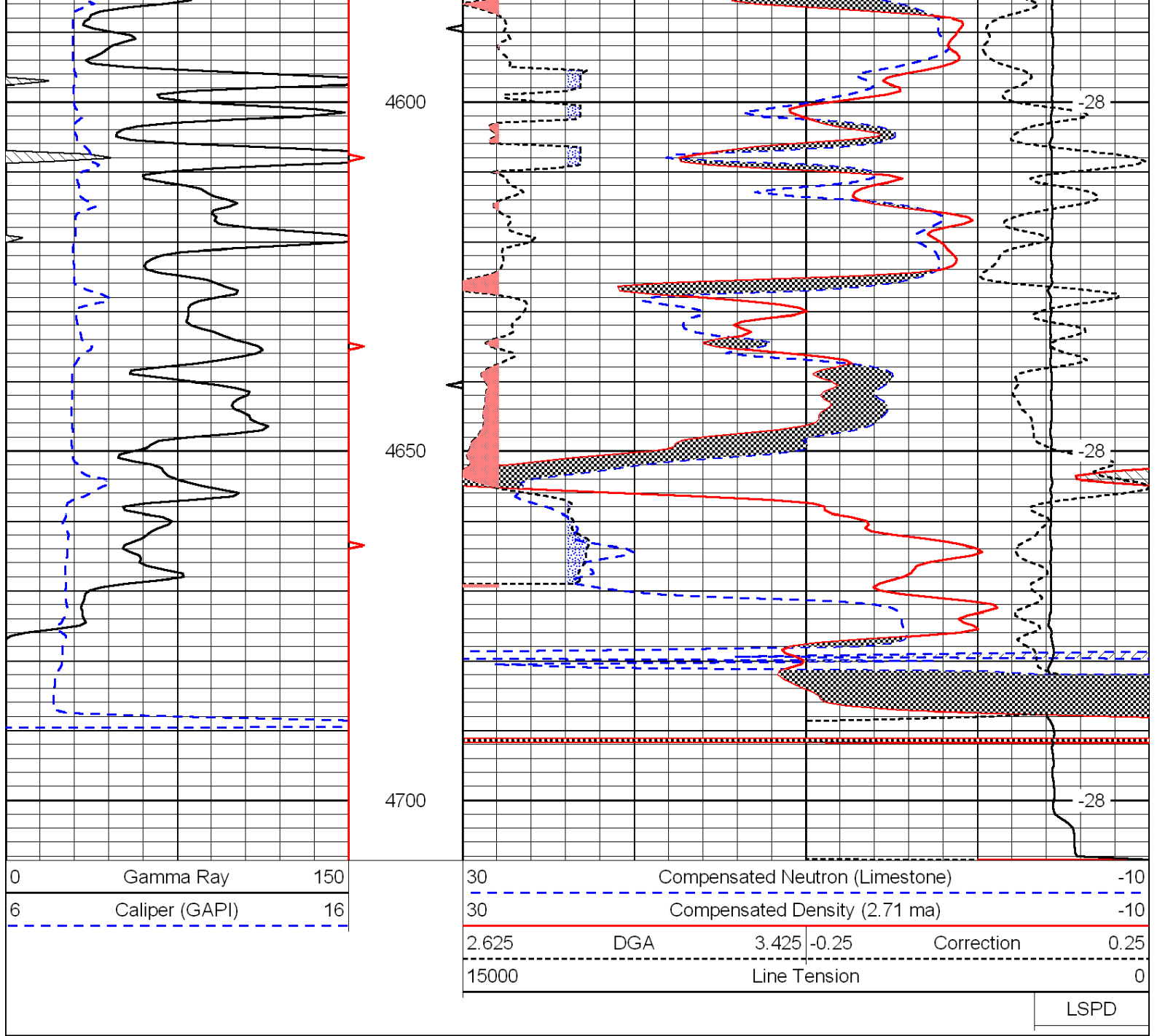














Microresistivity Log

DIGITAL LOG (785) 625-3858

API No.	Company Larson Engineering, Inc.				
	Well Stormont No. 2-27				
	Field Stormont				
	County	Lane	State	Kansas	
15-101-22,244-00-00	Location		580' FSL & 2222' FWL		Other Services CNL/CDL DIL
	Sec: 27	Twp: 19 S	Rge: 28 W	Elevation	
Permanent Datum	Ground Level		Elevation 2768	K.B. 2775	
Log Measured From	Kelly Bushing	7	Ft. Above Perm. Datum	D.F. 2768	
Drilling Measured From	Kelly Bushing	G.L. 2768			
Date	7/07/2010				
Run Number	Two				
Depth Driller	4700				
Depth Logger	4702				
Bottom Logged Interval	4701				
Top Log Interval	3600				
Casing Driller	8.625 @ 259				
Casing Logger	256				
Bit Size	7.875				
Type Fluid in Hole	Chemical				
Salinity,ppm CL	2,600				
Density / Viscosity	9.1	54			
pH / Fluid Loss	10.5	8.0			
Source of Sample	Flowline				
Rm @ Meas. Temp	.95 @ 70				
Rmf @ Meas. Temp	.71 @ 70				
Rmc @ Meas. Temp	1.28 @ 70				
Source of Rmf / Rmc	Charts				
Rm @ BHT	.53 @ 125				
Operating Rig Time	4 Hours				
Max Rec. Temp. F	125				
Equipment Number	4				
Location	Hays				
Recorded By	K. Bange				
Witnessed By	Bob Lewellyn				

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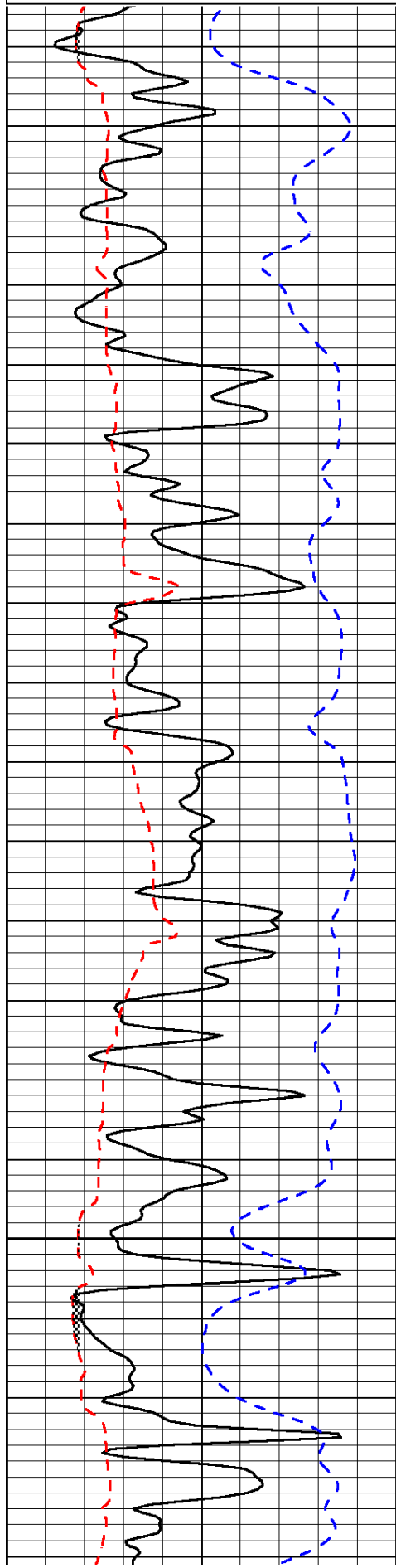
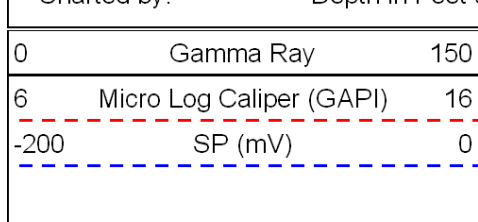
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Comments

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Dighton, 8 S to 70 rd, 3 1/2 W, N into

Database File: c:\warrior\data\larson_stormont no. 2-27\larsonhd.db
Dataset Pathname: dil\lars2in
Presentation Format: micro
Dataset Creation: Wed Jul 07 07:47:54 2010
Charted by: Depth in Feet scaled 1:240

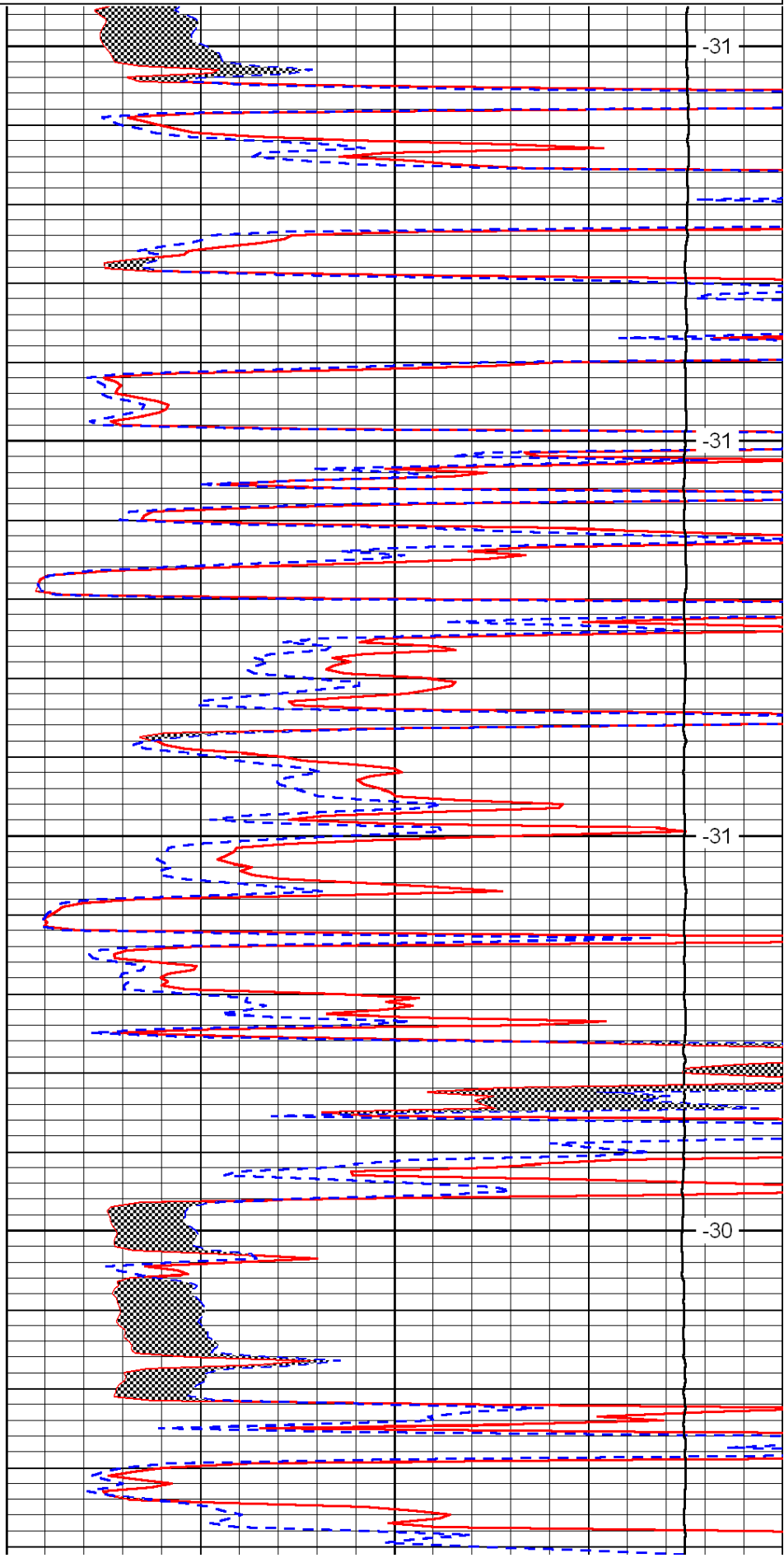


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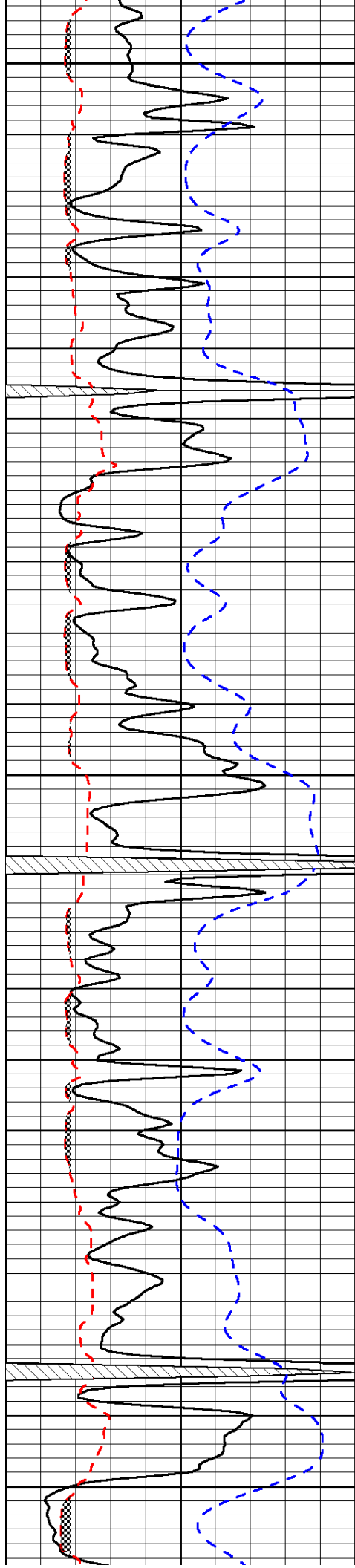


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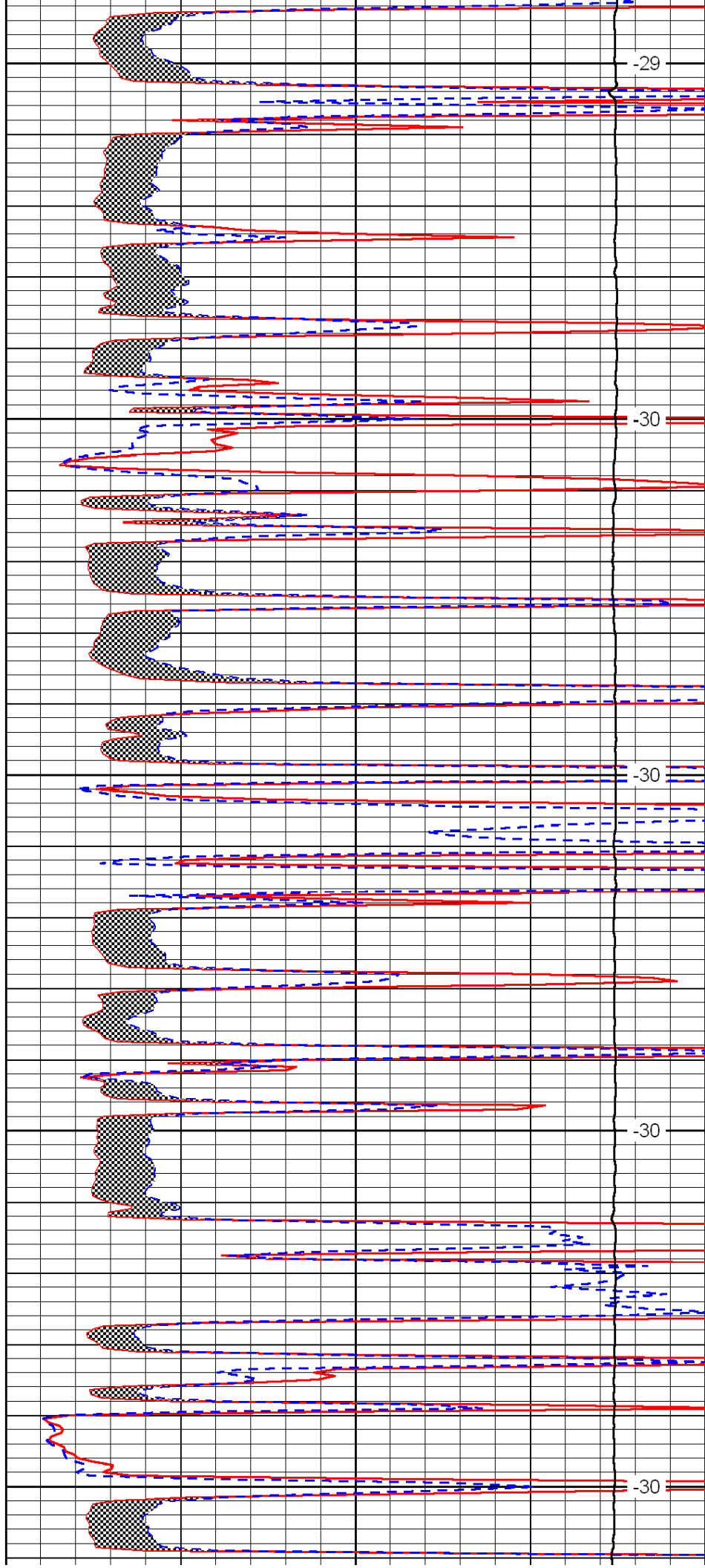
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3850

3900

3950

4000



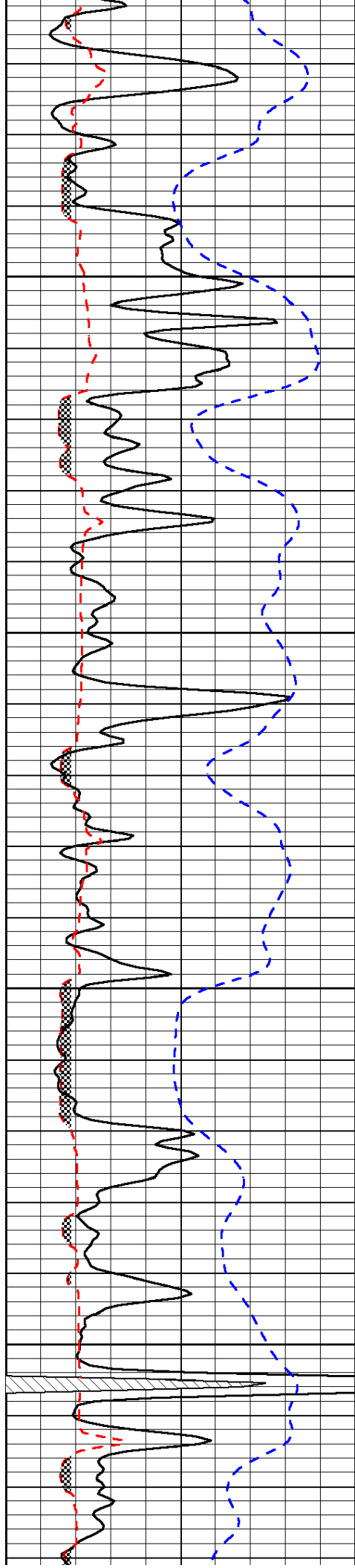
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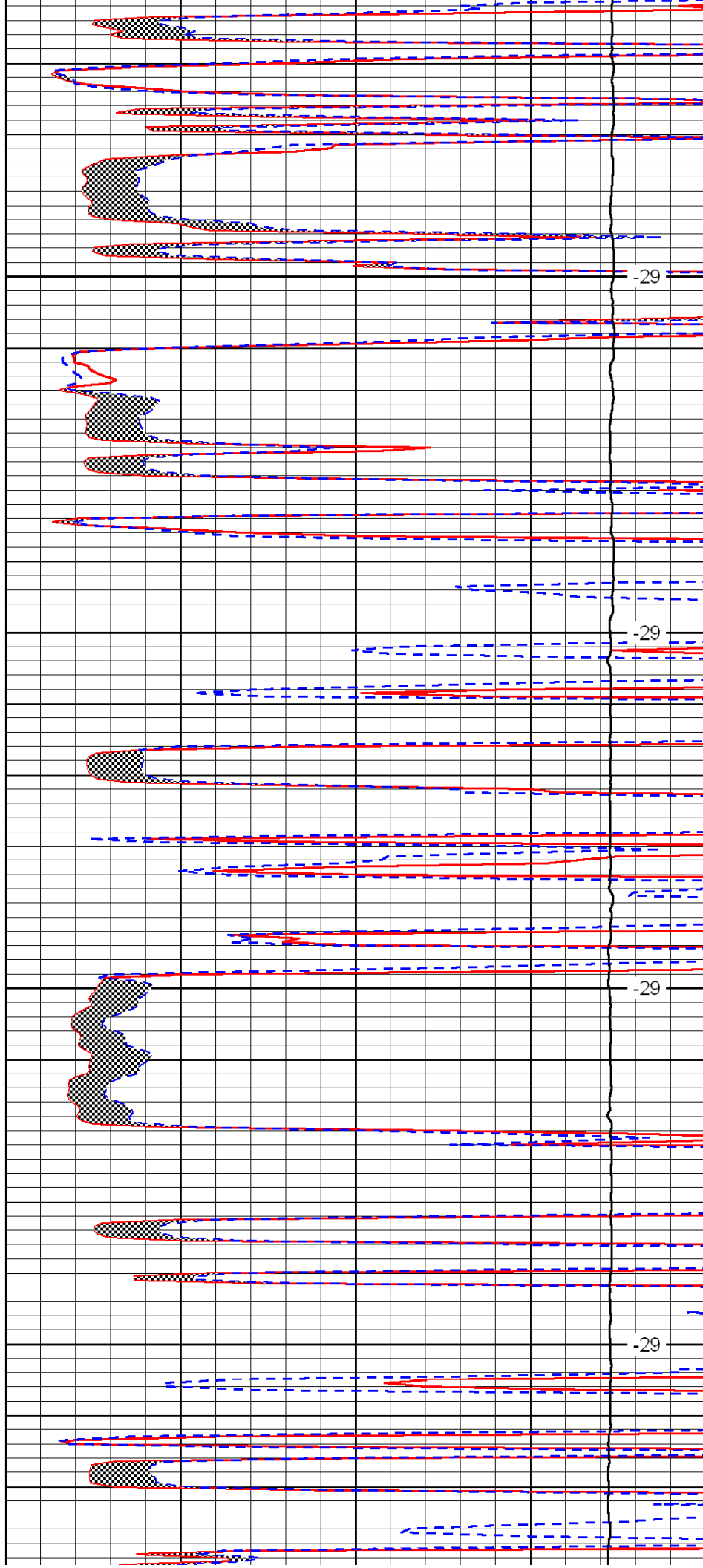


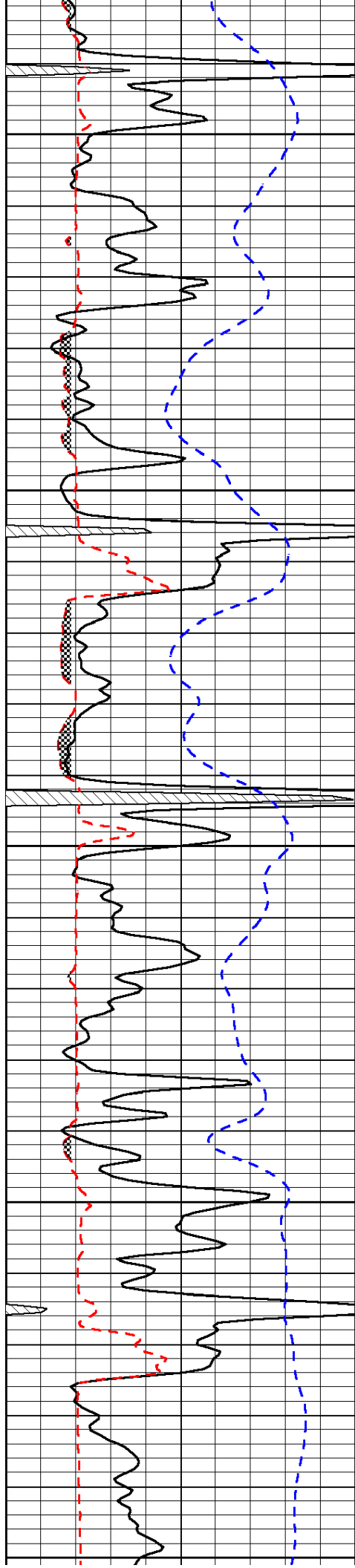
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4100

4150

4200





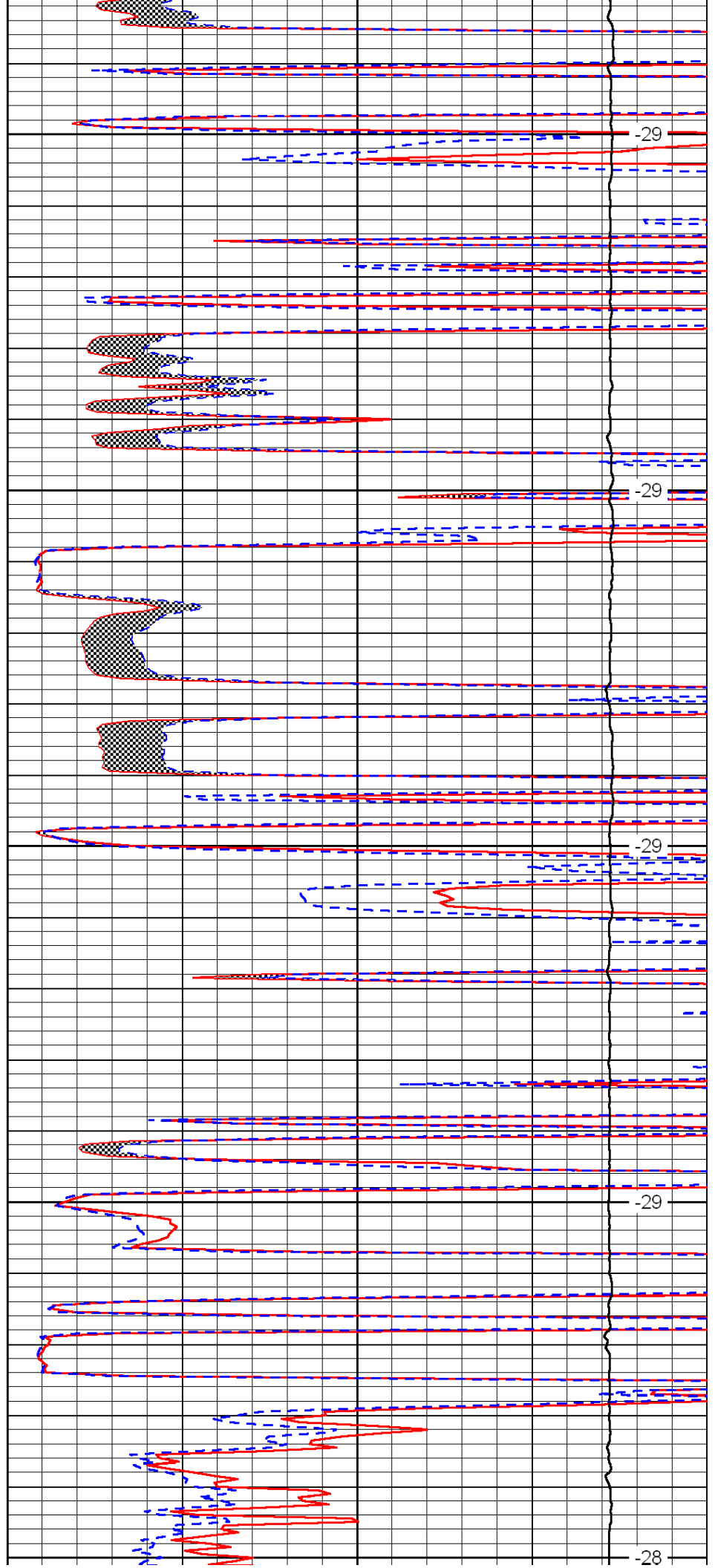
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4300

4350

4400

4450



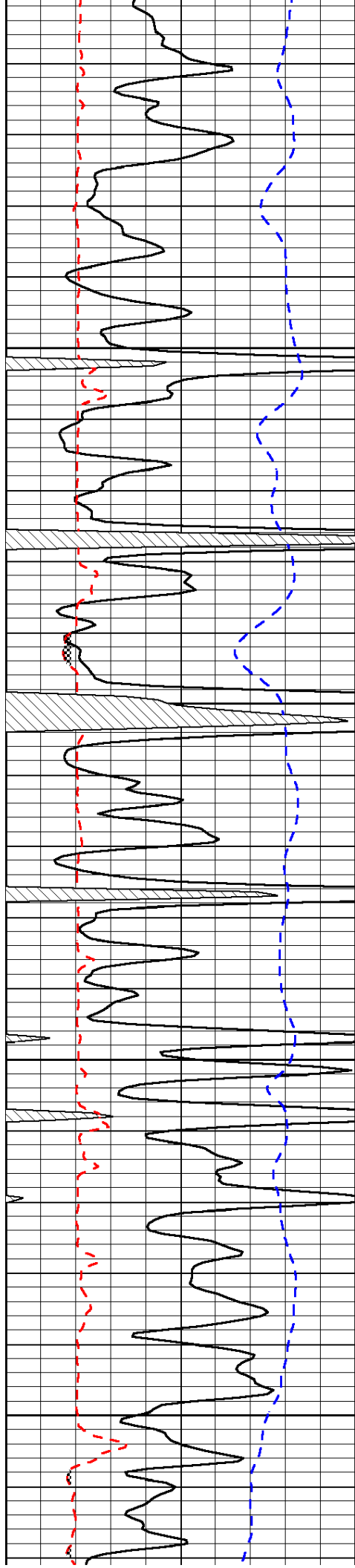
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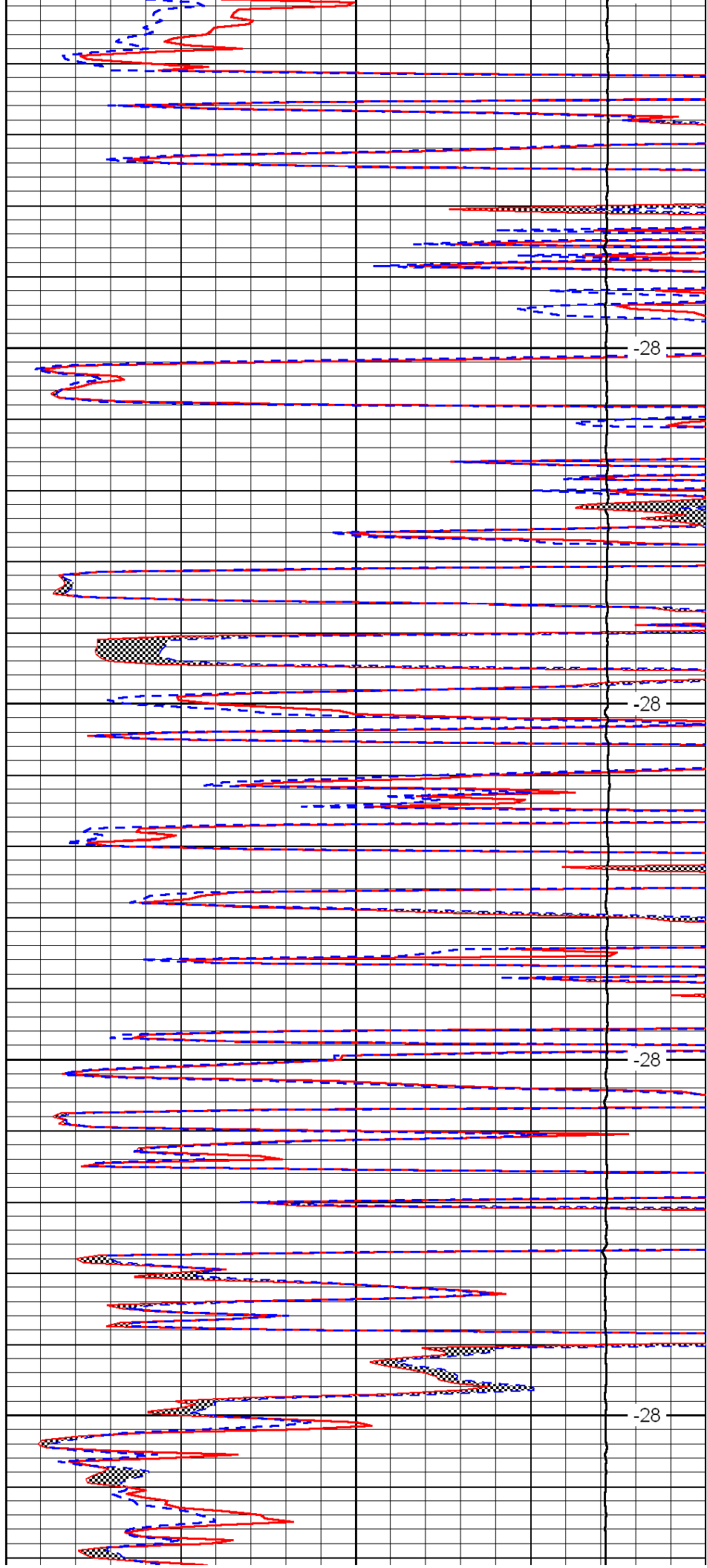


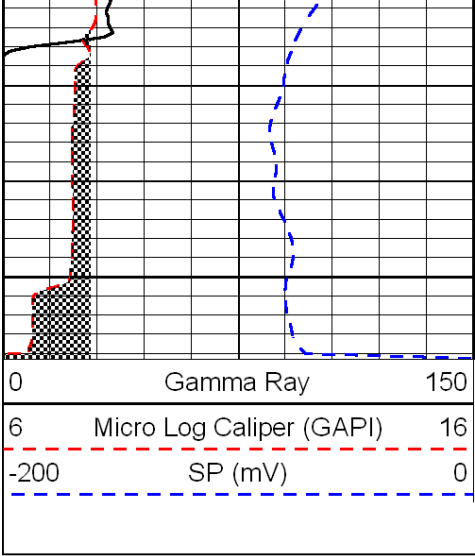
4500

4550

4600

4650





4700

