



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1087948
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: _____

1087948

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Caerus Kansas LLC
Well Name	Benton 1-42
Doc ID	1087948

All Electric Logs Run

Dual Induction
Microlog
Compensated Density/Neutron
Sonic Log

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
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 24, 2012

Amy Lay
Caerus Kansas LLC
600 17TH ST, STE 1600 N
DENVER, CO 80202

Re: ACO1
API 15-009-25715-00-00
Benton 1-42
NE/4 Sec.01-18S-14W
Barton 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,
Amy Lay



SUPERIOR
Hays,
Kansas

**DUAL INDUCTION
LOG**

Company CAERUS KANSAS, LLC.
Well BENTON #1-42
Field BOYD
County BARTON
State KANSAS

Company CAERUS KANSAS, LLC.
Well BENTON #1-42
Field BOYD
County BARTON
State KANSAS

Location: API # : 15-009-25715-0000
1598' FNL & 1026' FEL
NW - NW - SE - NE
SEC 1 TWP 18S RGE 14W
Permanent Datum GROUND LEVEL Elevation 1828
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
MEL/SONIC
Elevation
K.B. 1838
D.F. 1836
G.L. 1828

Date	7/10/12		
Run Number	ONE		
Depth Driller	3423		
Depth Logger	3424		
Bottom Logged Interval	3422		
Top Log Interval	00		
Casing Driller	8 5/8"@829'		
Casing Logger	834		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6,000 PPM	
Density / Viscosity	9.3/56		
pH / Fluid Loss	10.5/9.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.450@80F		
Rmt @ Meas. Temp	.334@80F		
Rmc @ Meas. Temp	.540@80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.324@111F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	6:30 A.M.		
Maximum Recorded Temperature	111F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JUSTIN CARTER	BRIAN KARLIN	

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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 SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
RUSSELL, KS. & I-70, S. TO (HWY 4 & 281) 2E. TO "RD. 20", 1 1/2S. ACROSS RR TRACKS, W. INTO



SUPERIOR
Hays,
Kansas

MAIN SECTION

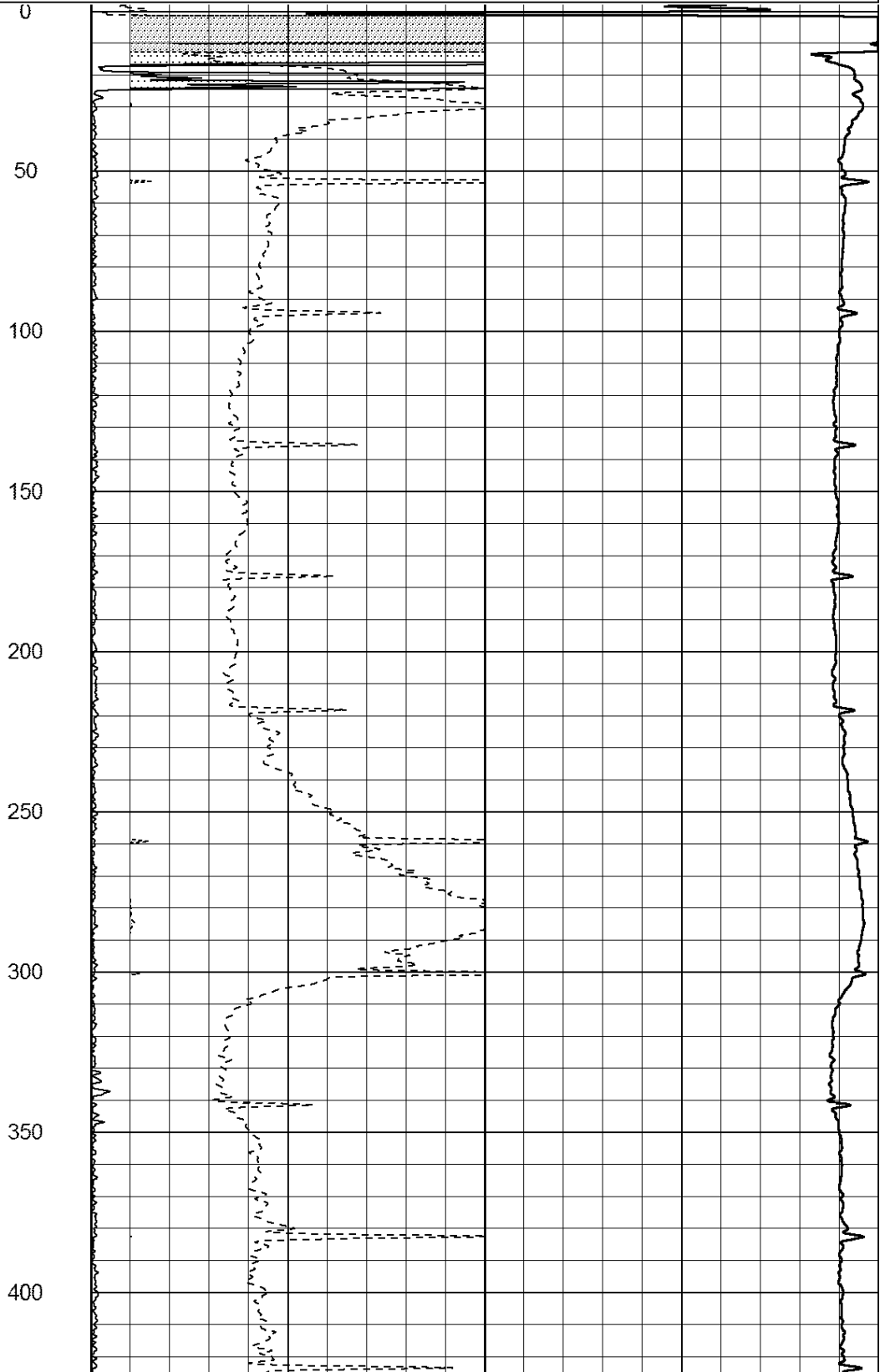
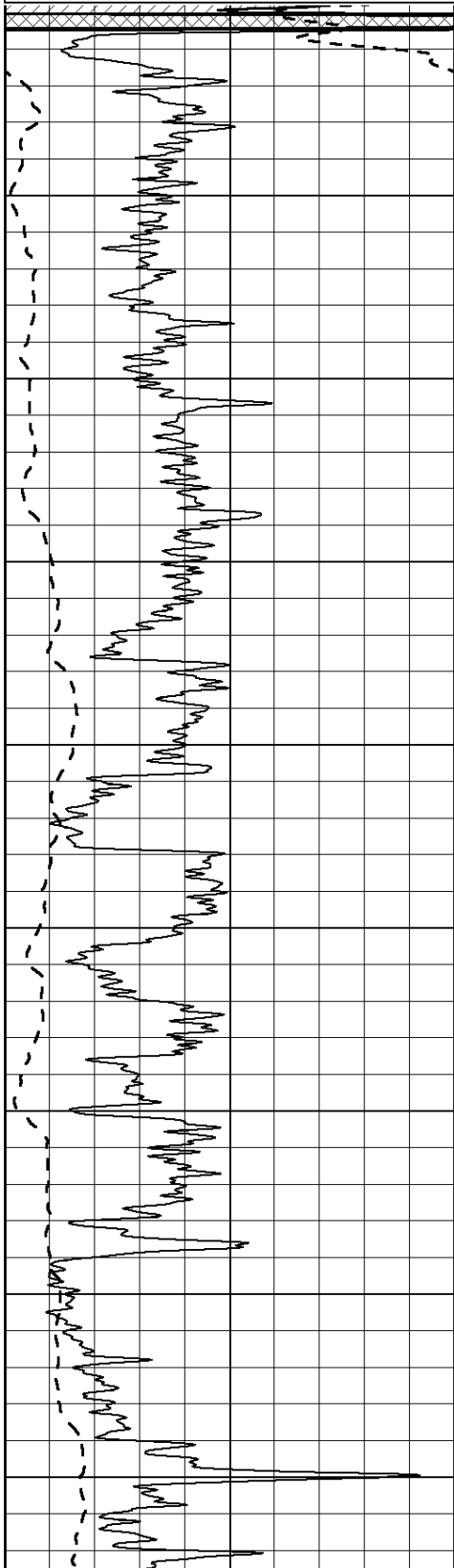
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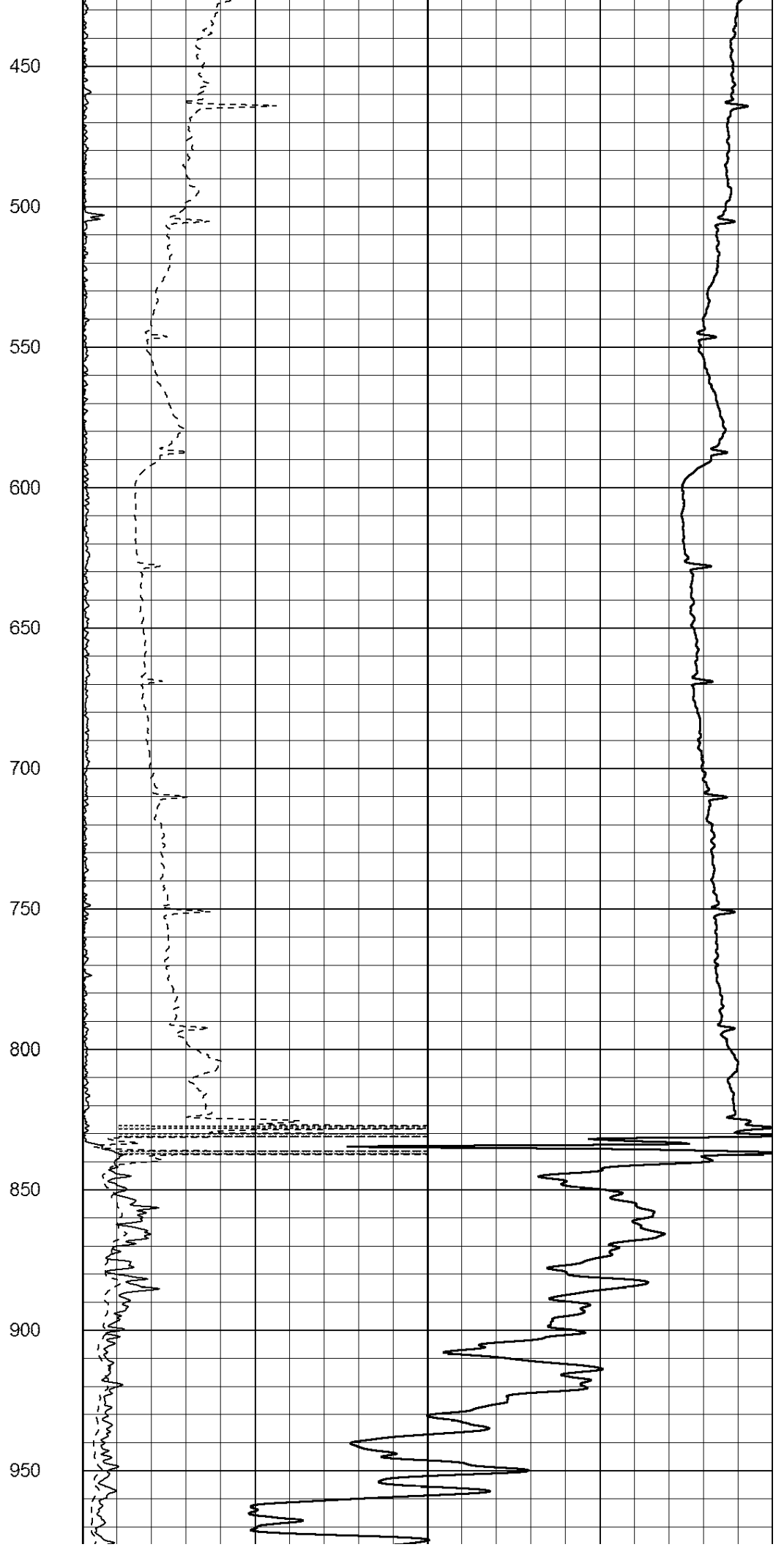
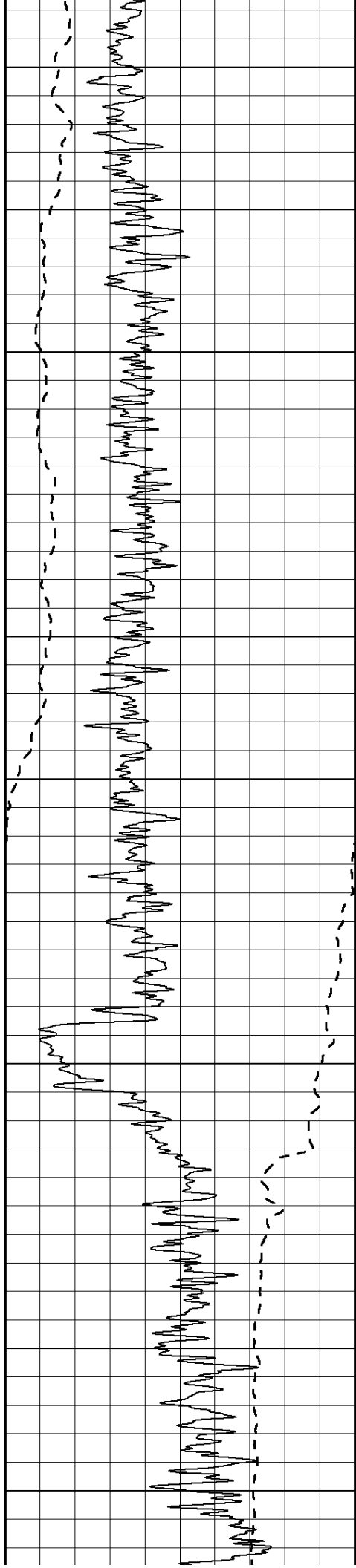
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-100	SP (mV)	100

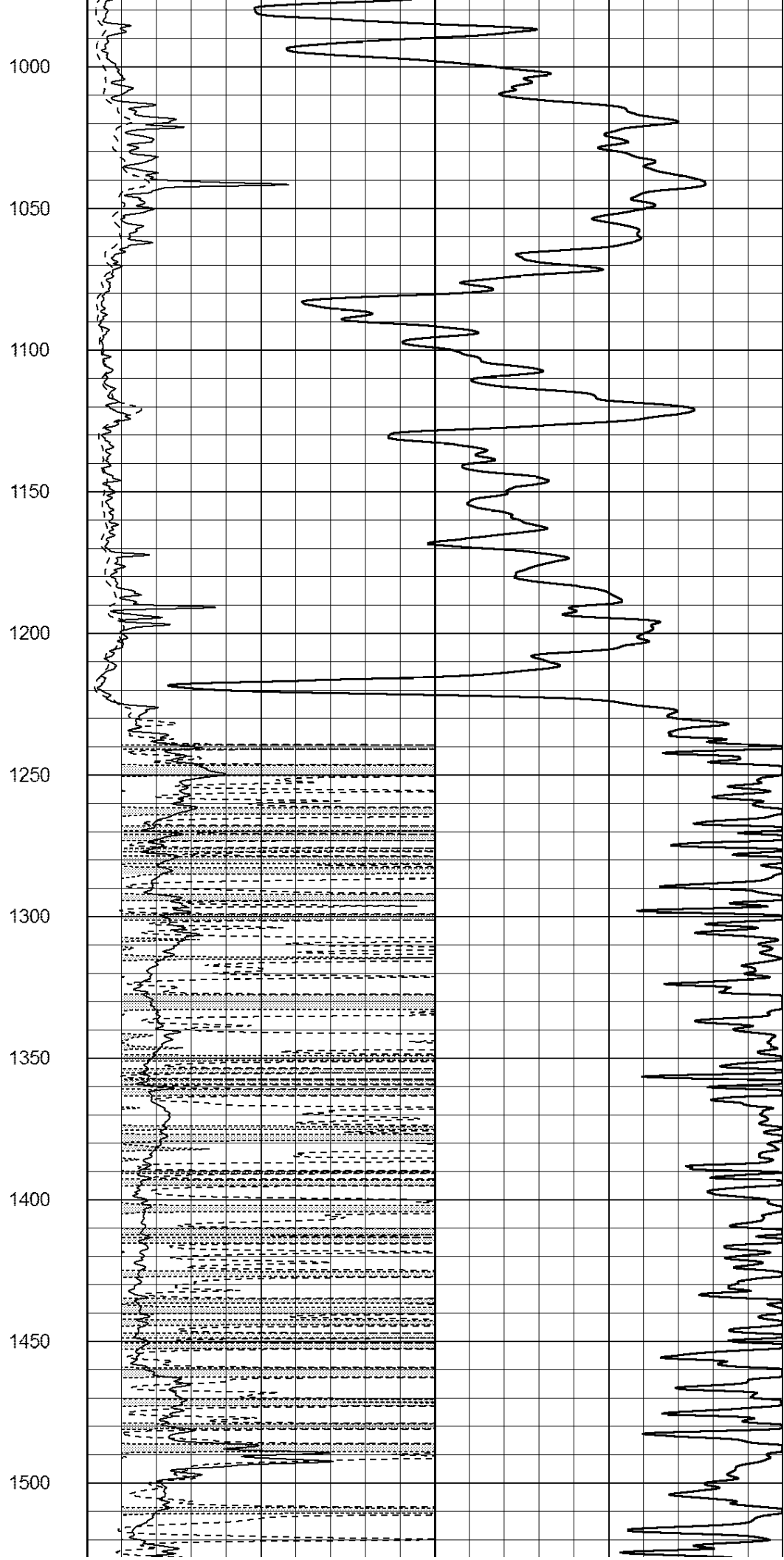
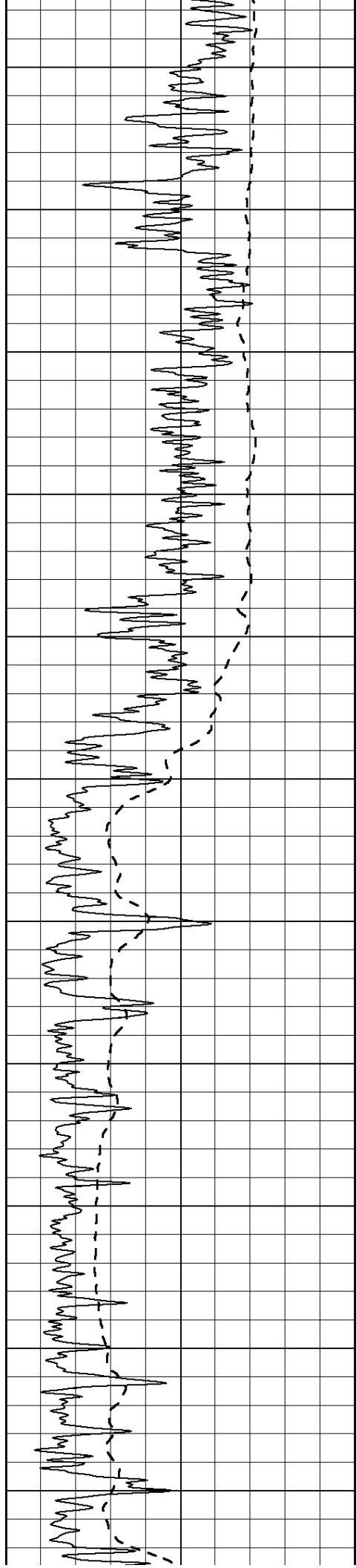
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0	RILD (Ohm-m)	50

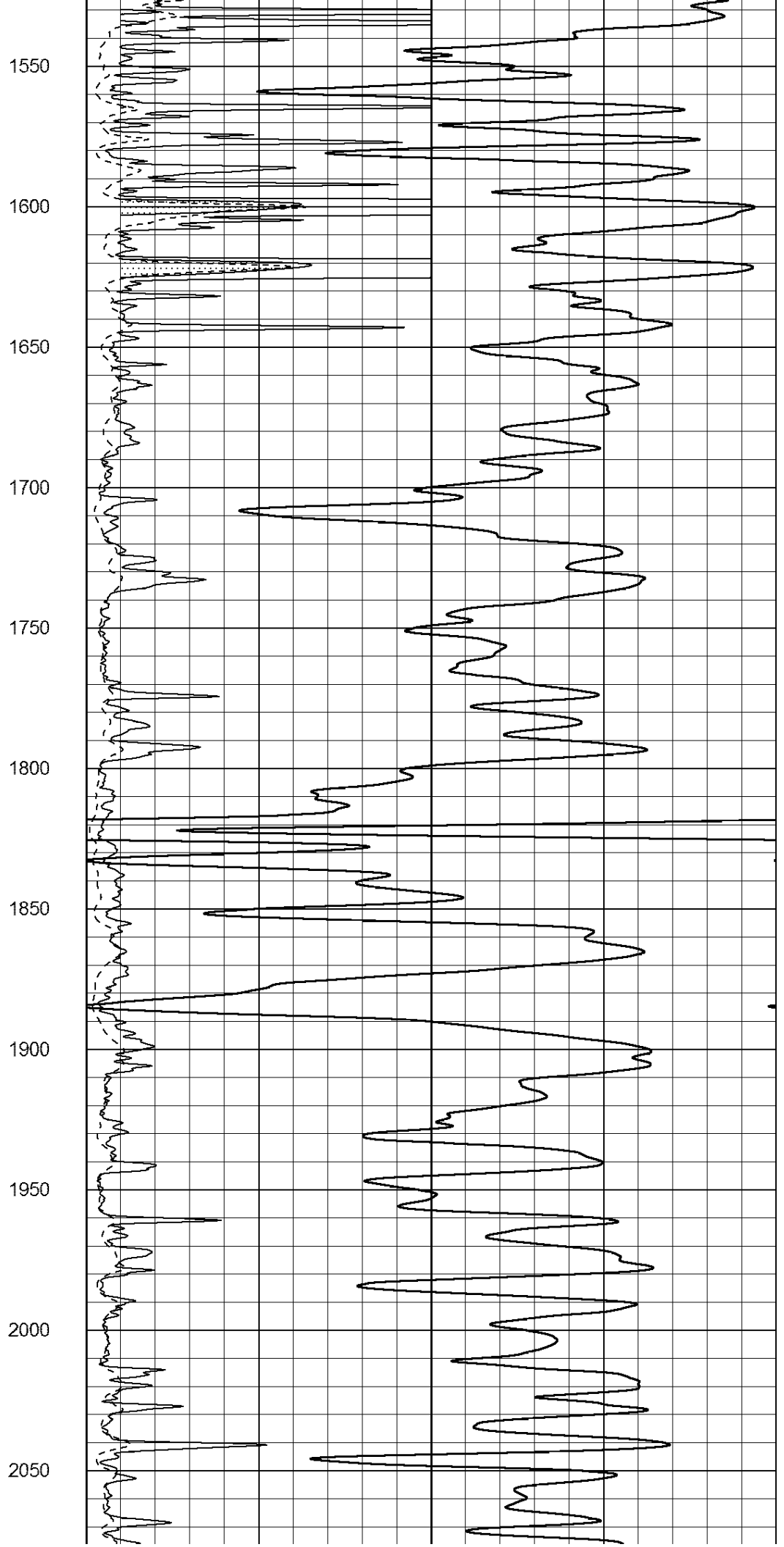
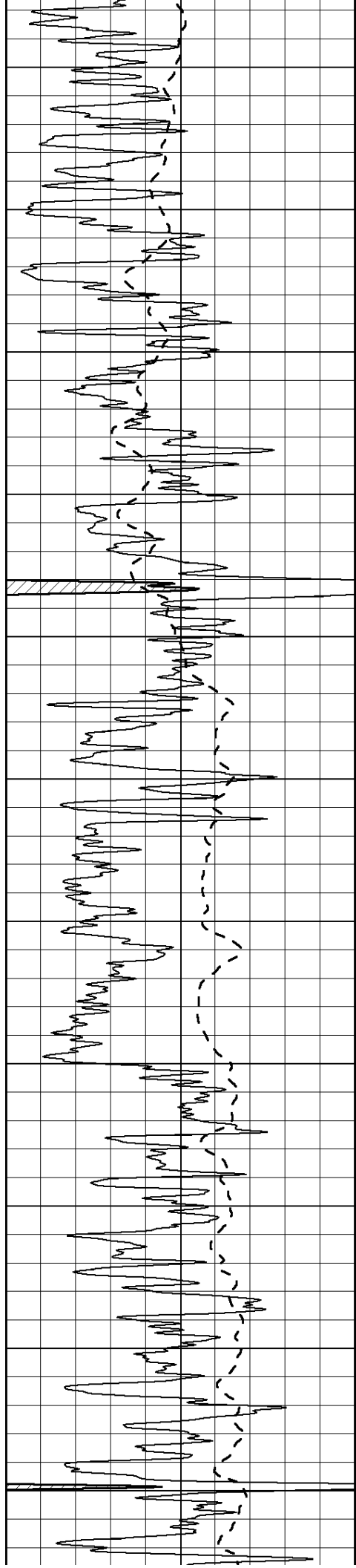
1000	CILD (mmho/m)	0
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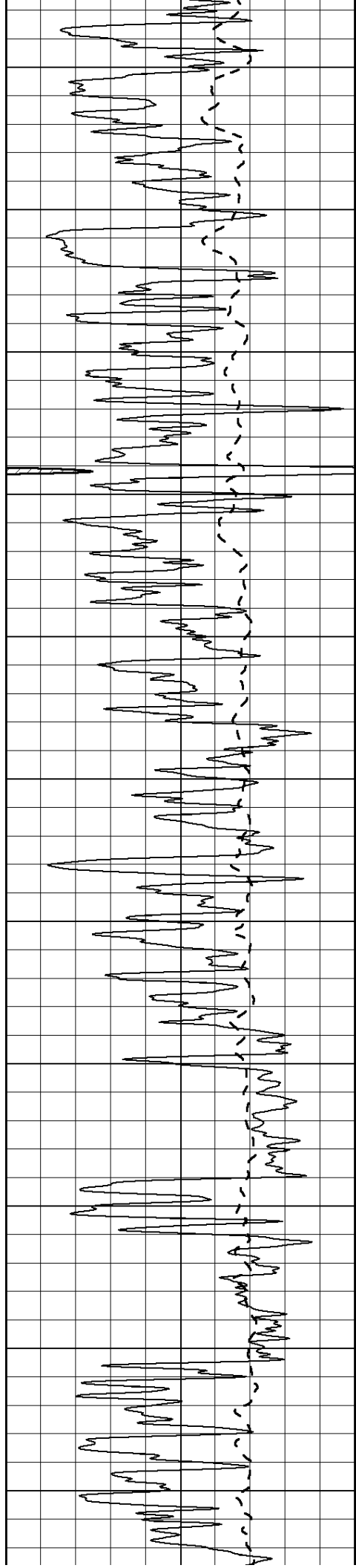
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500











2100

2150

2200

2250

2300

2350

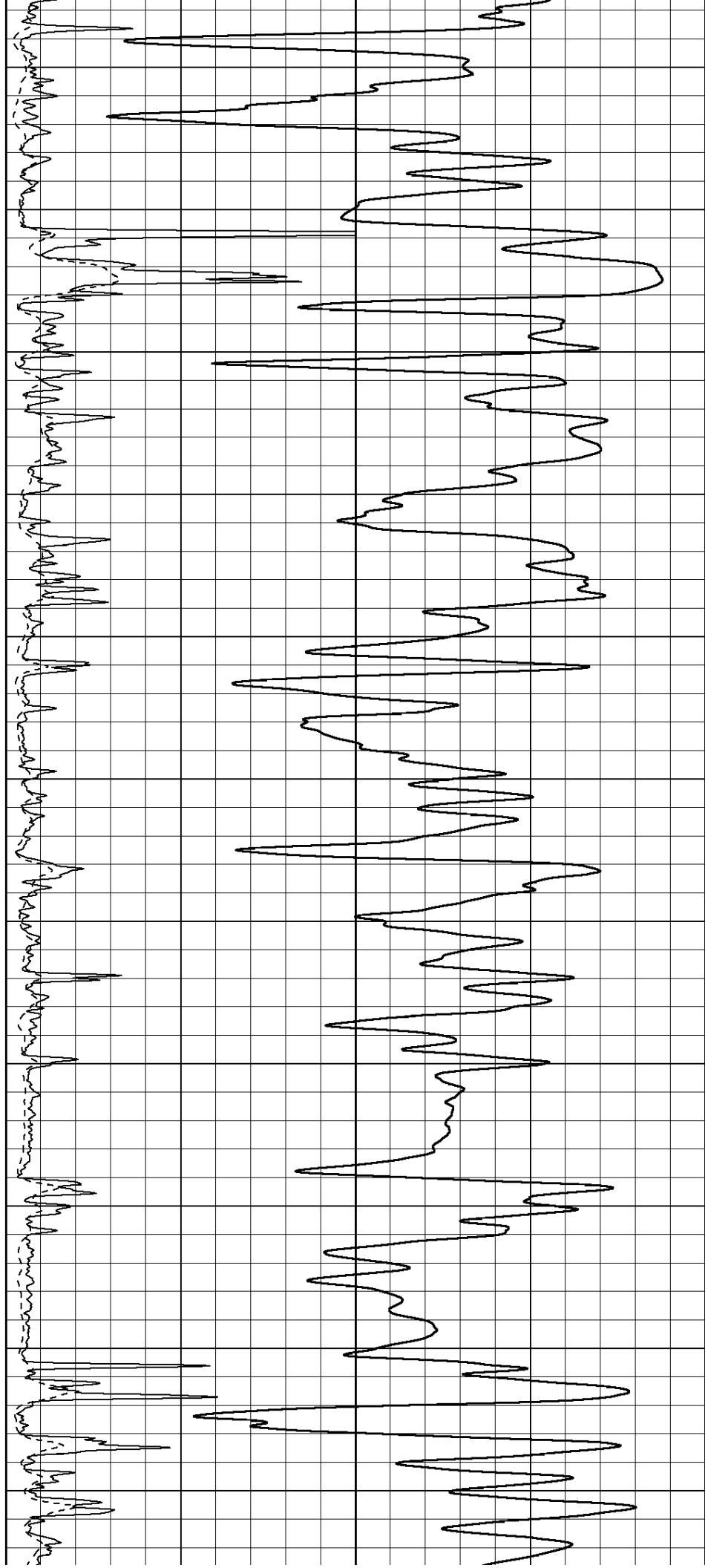
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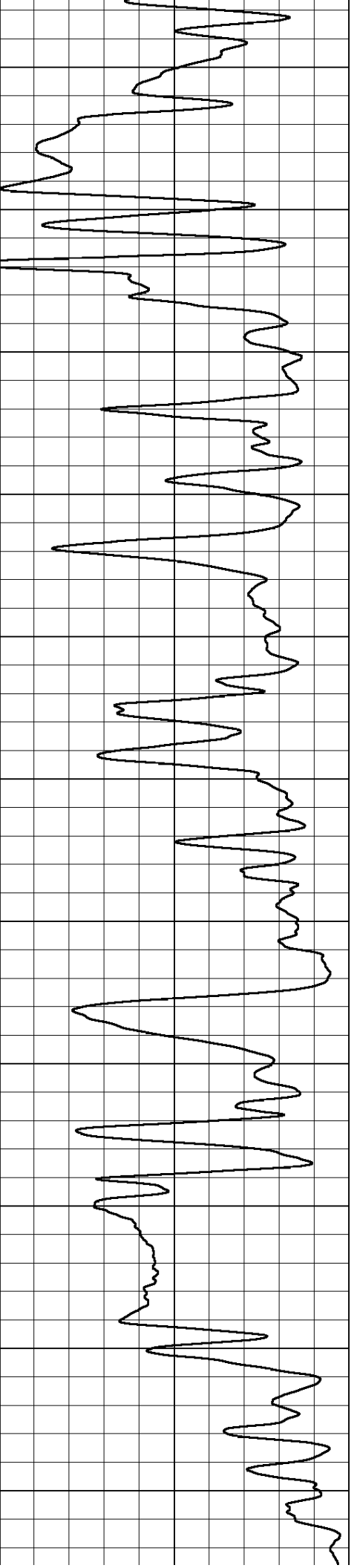
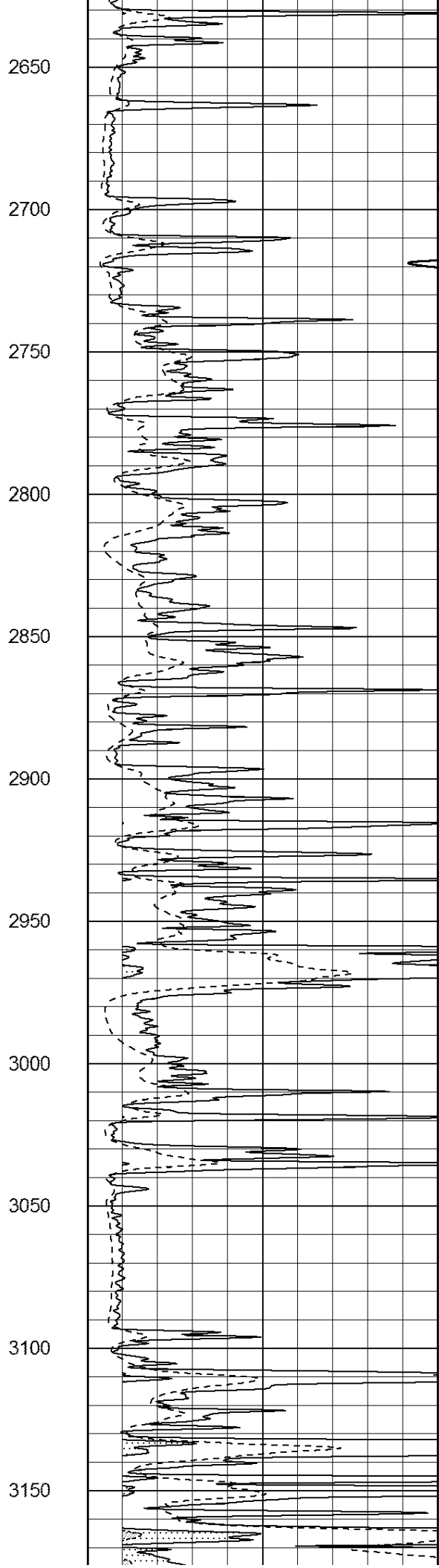
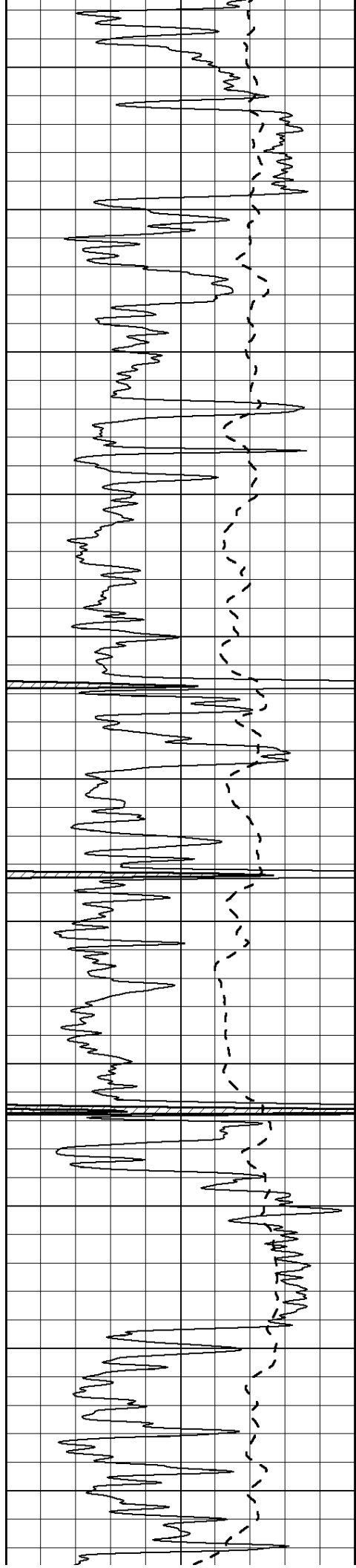
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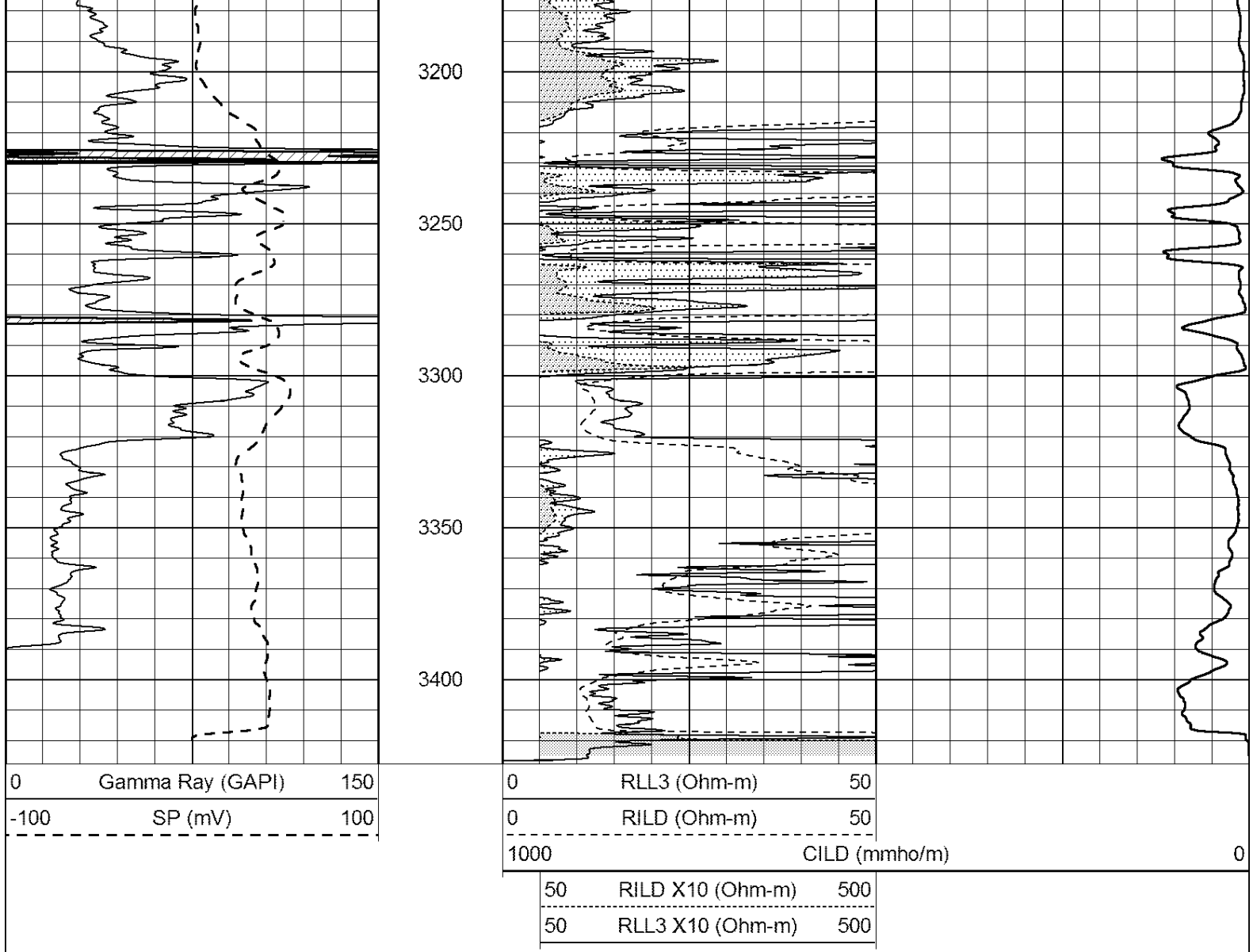
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2550

2600







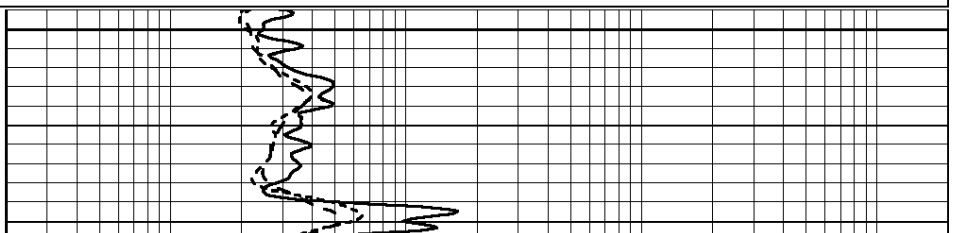
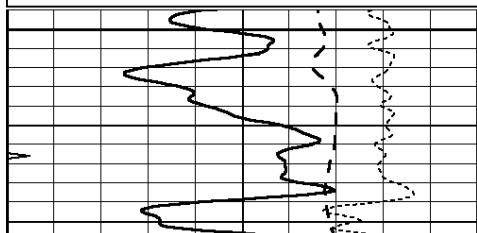
SUPERIOR
Hays,
Kansas

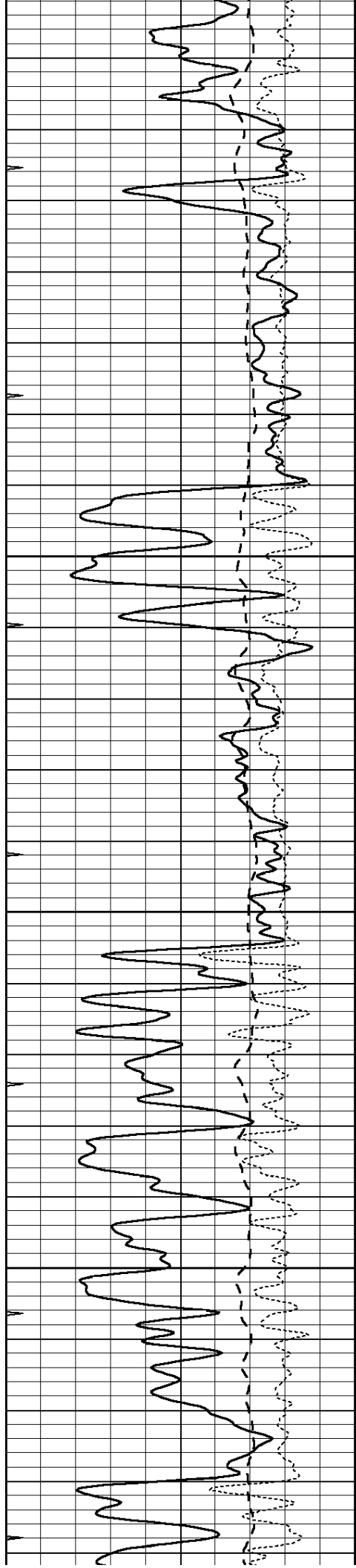
MAIN SECTION

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 Dataset Creation: Tue Jul 10 07:47:46 2012 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



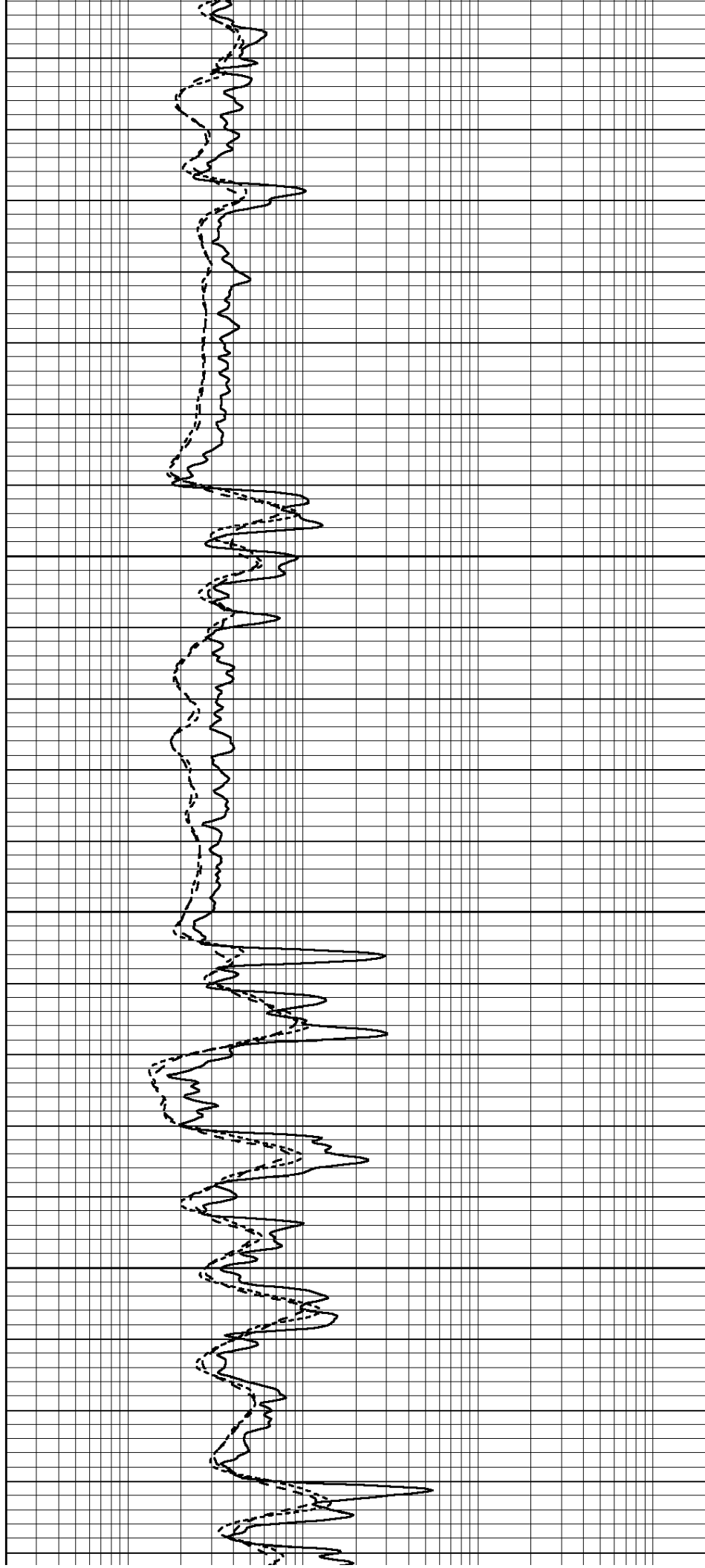


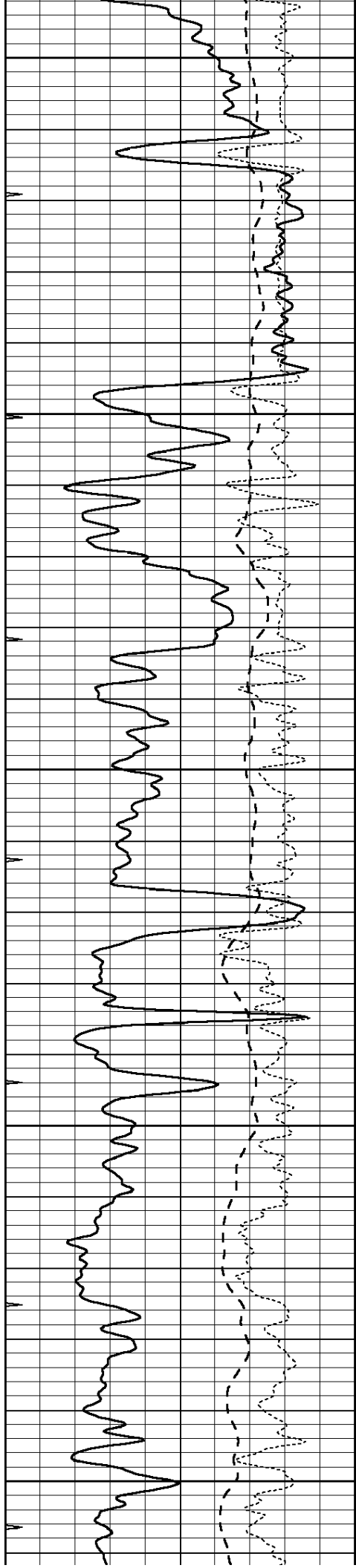
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2500

2550

2600





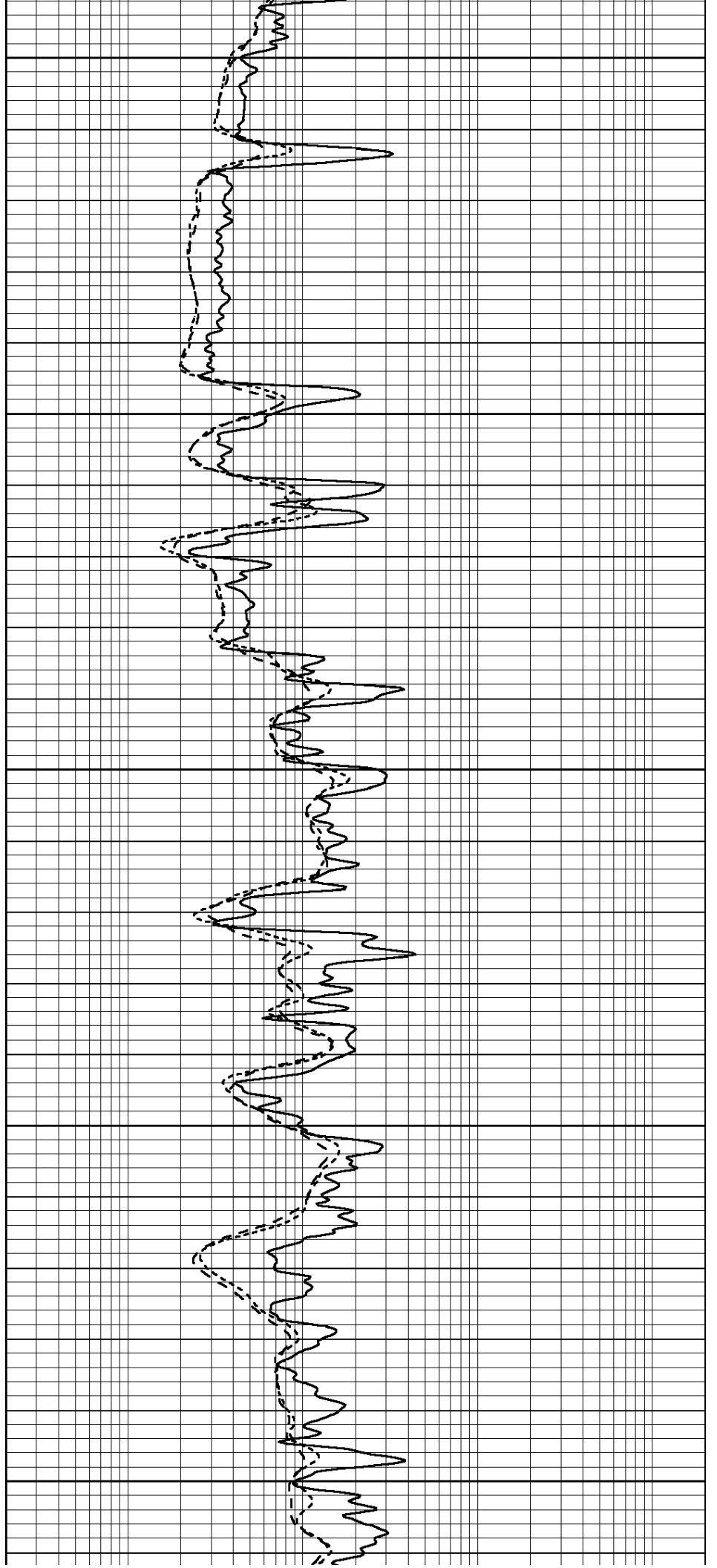
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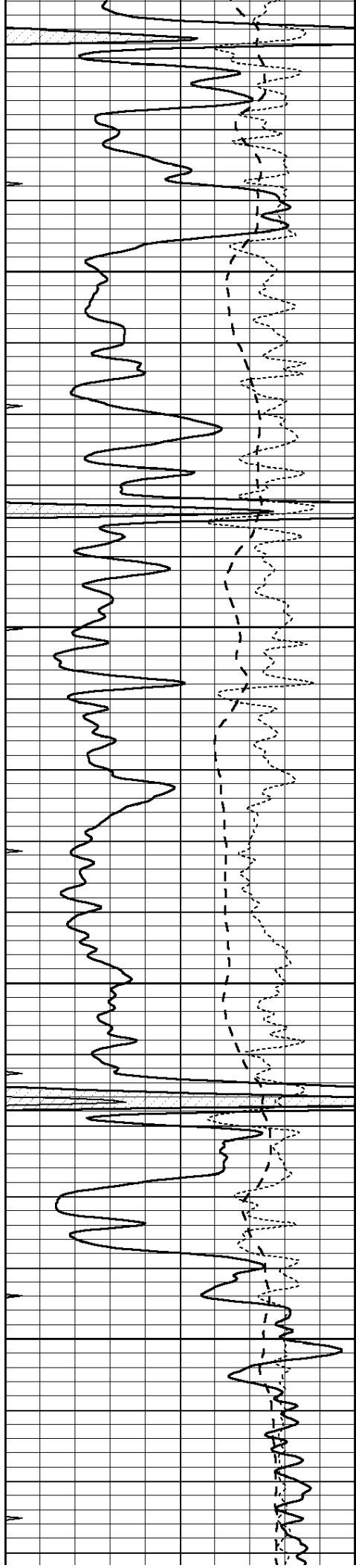
2700

2750

2800

2850



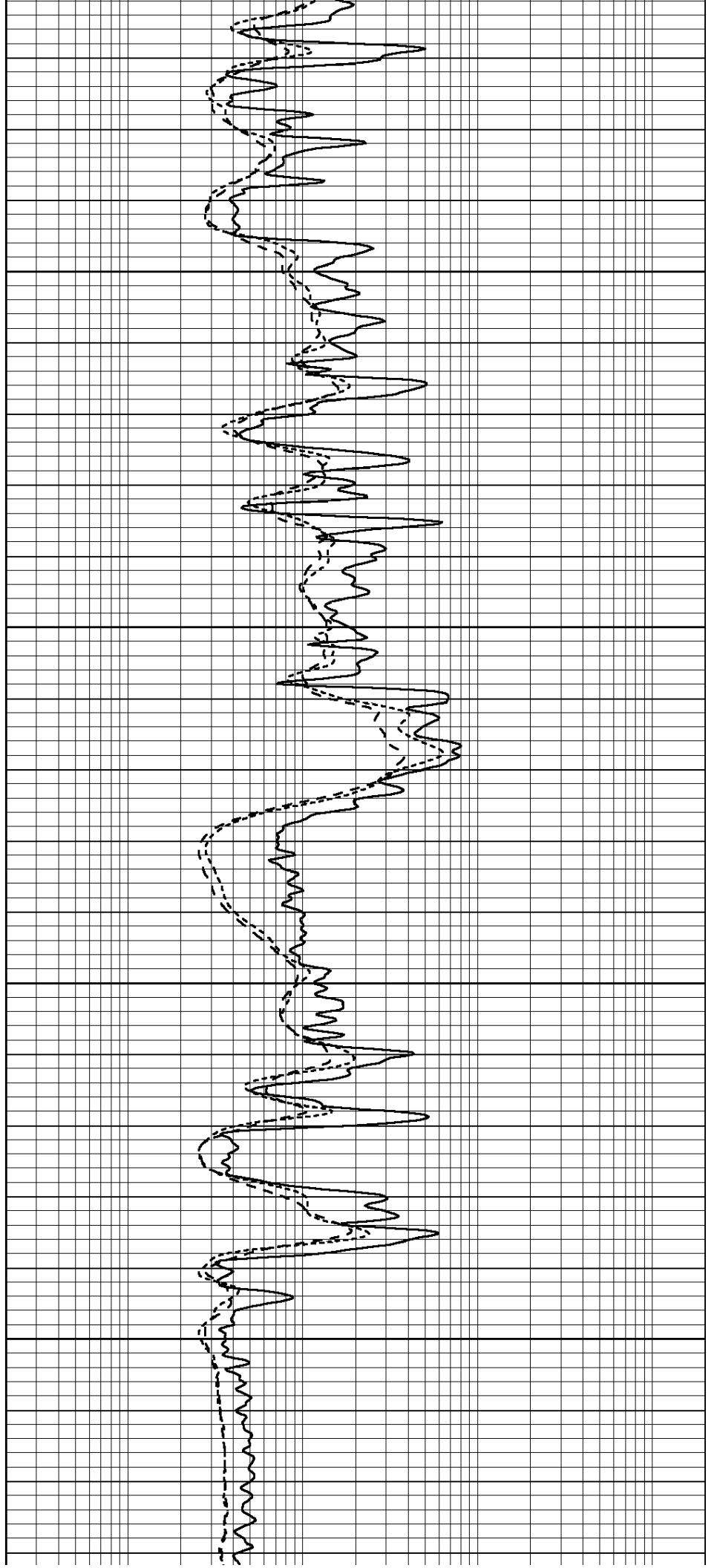


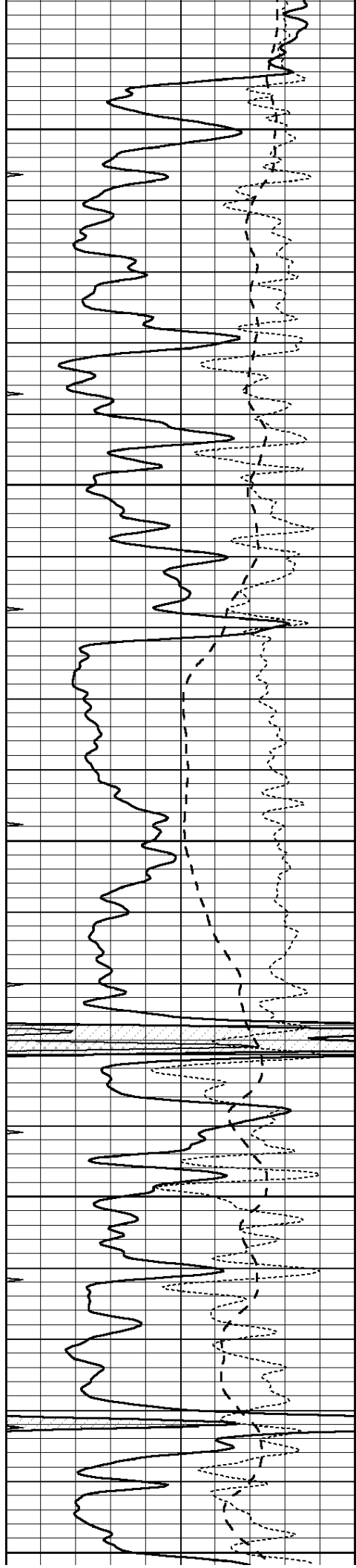
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2950

3000

3050





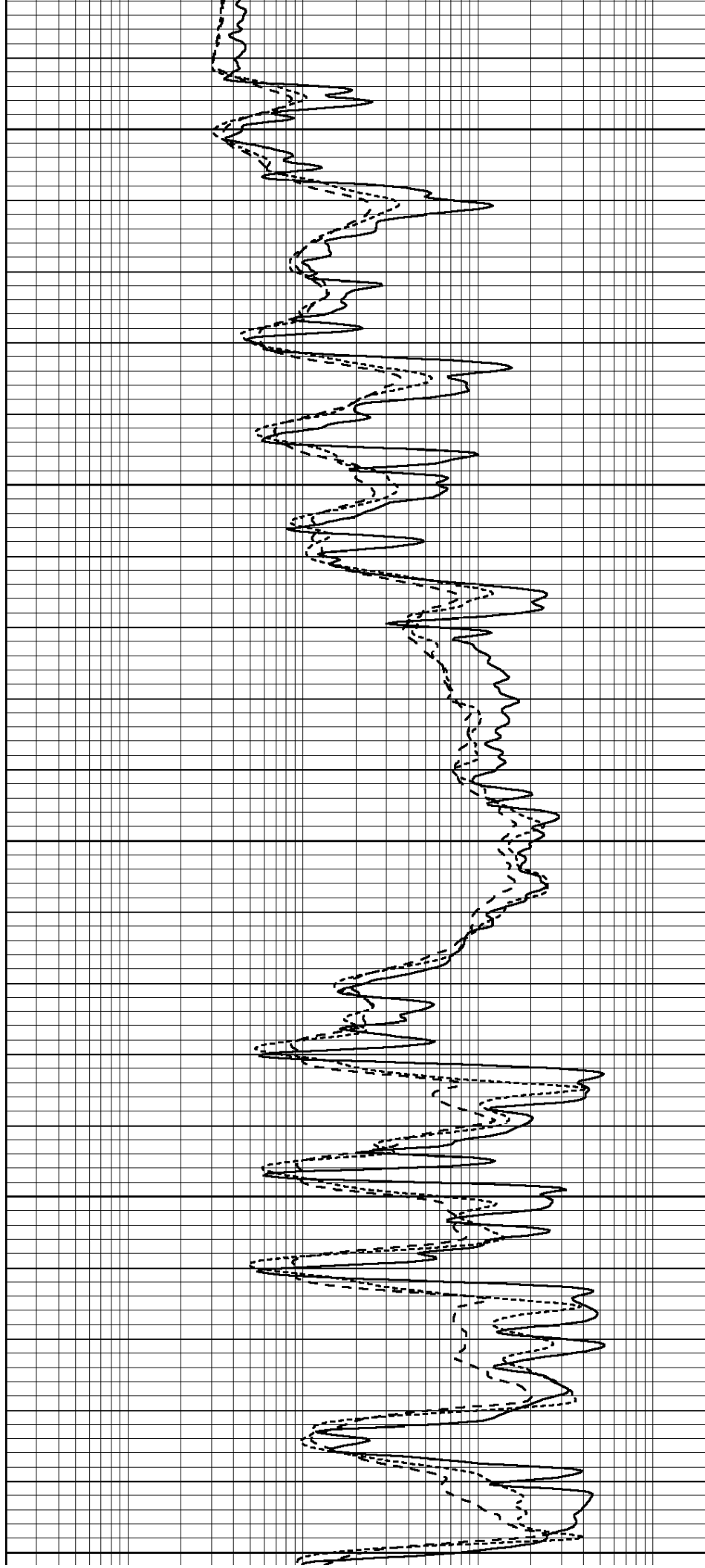
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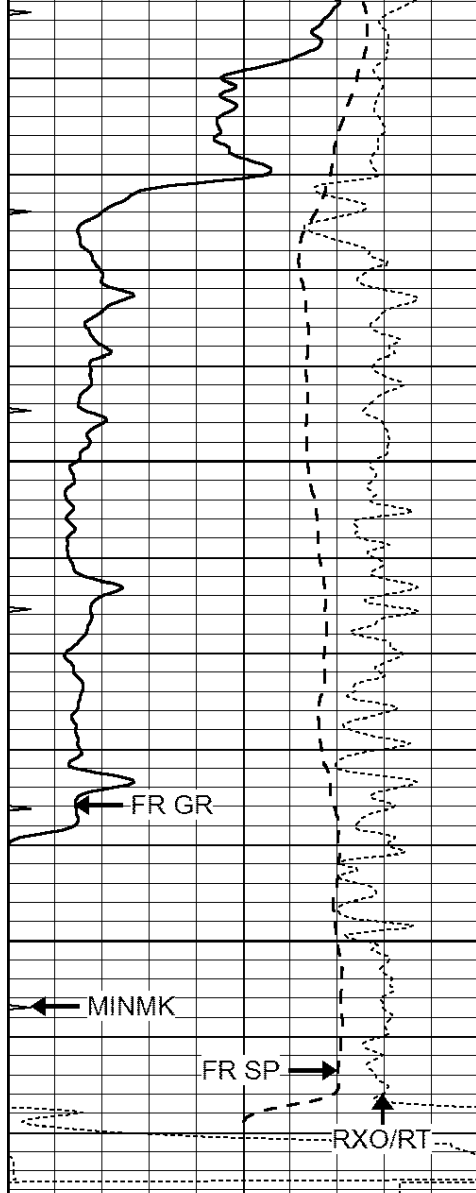
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3200

3250

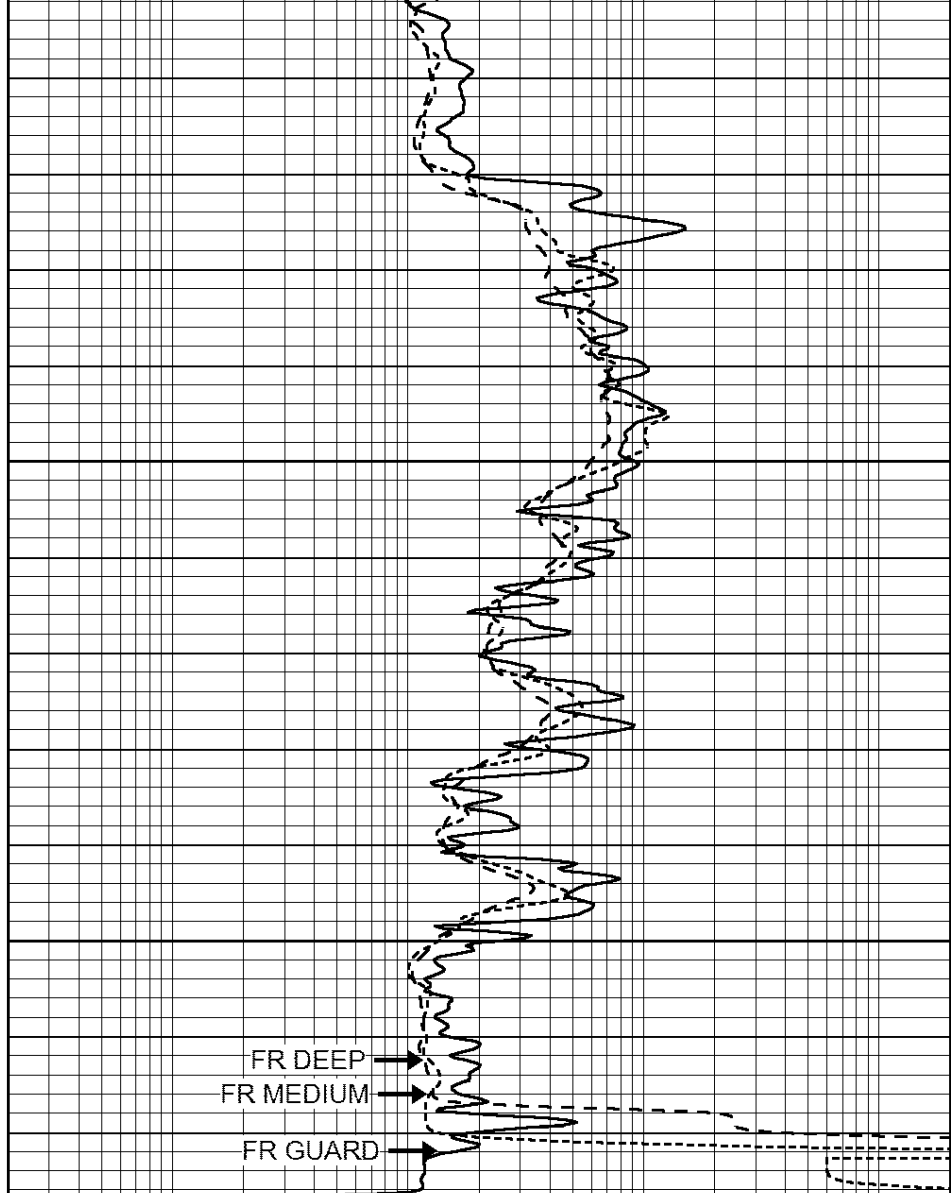
3300





3350
3400
LTD 3424

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20



0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



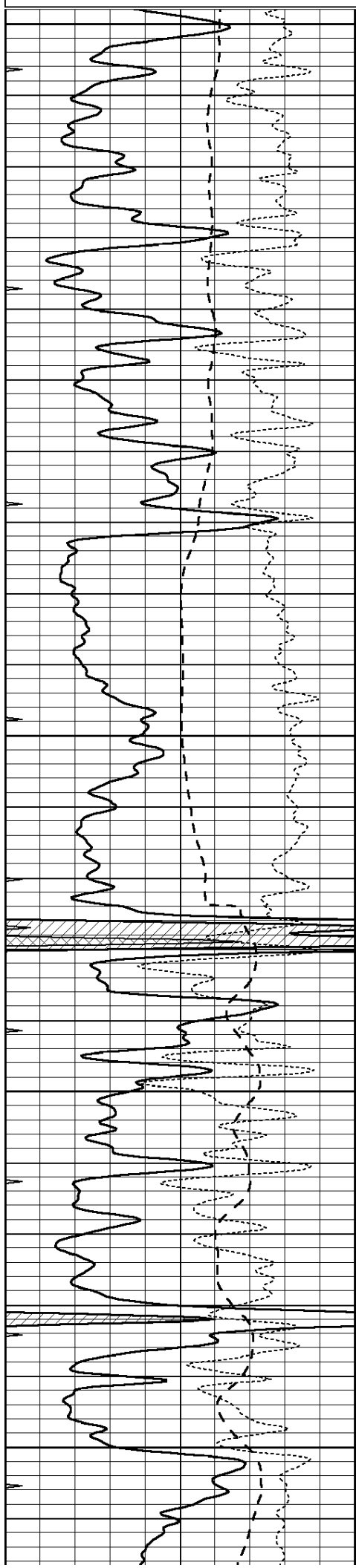
SUPERIOR
Hays,
Kansas

REPEAT SECTION

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-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



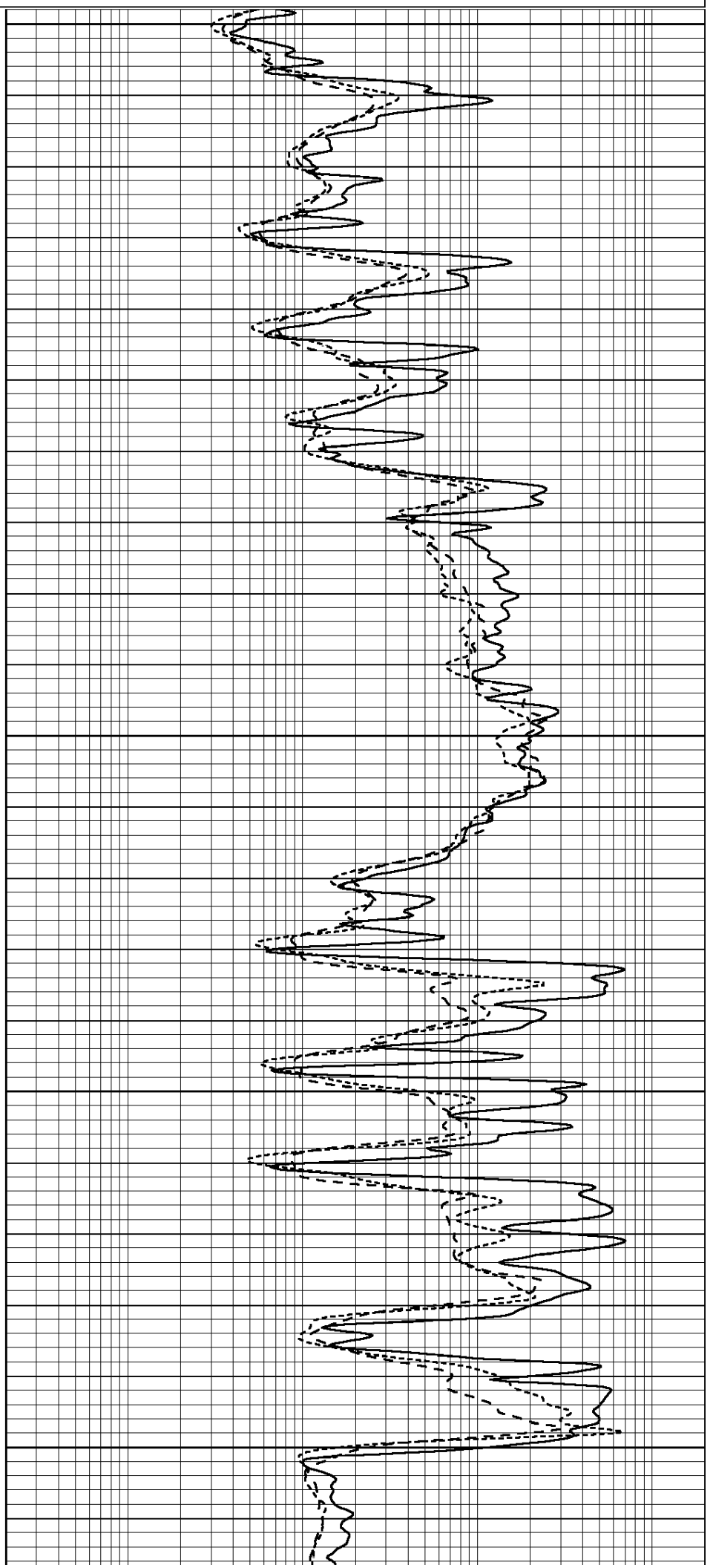
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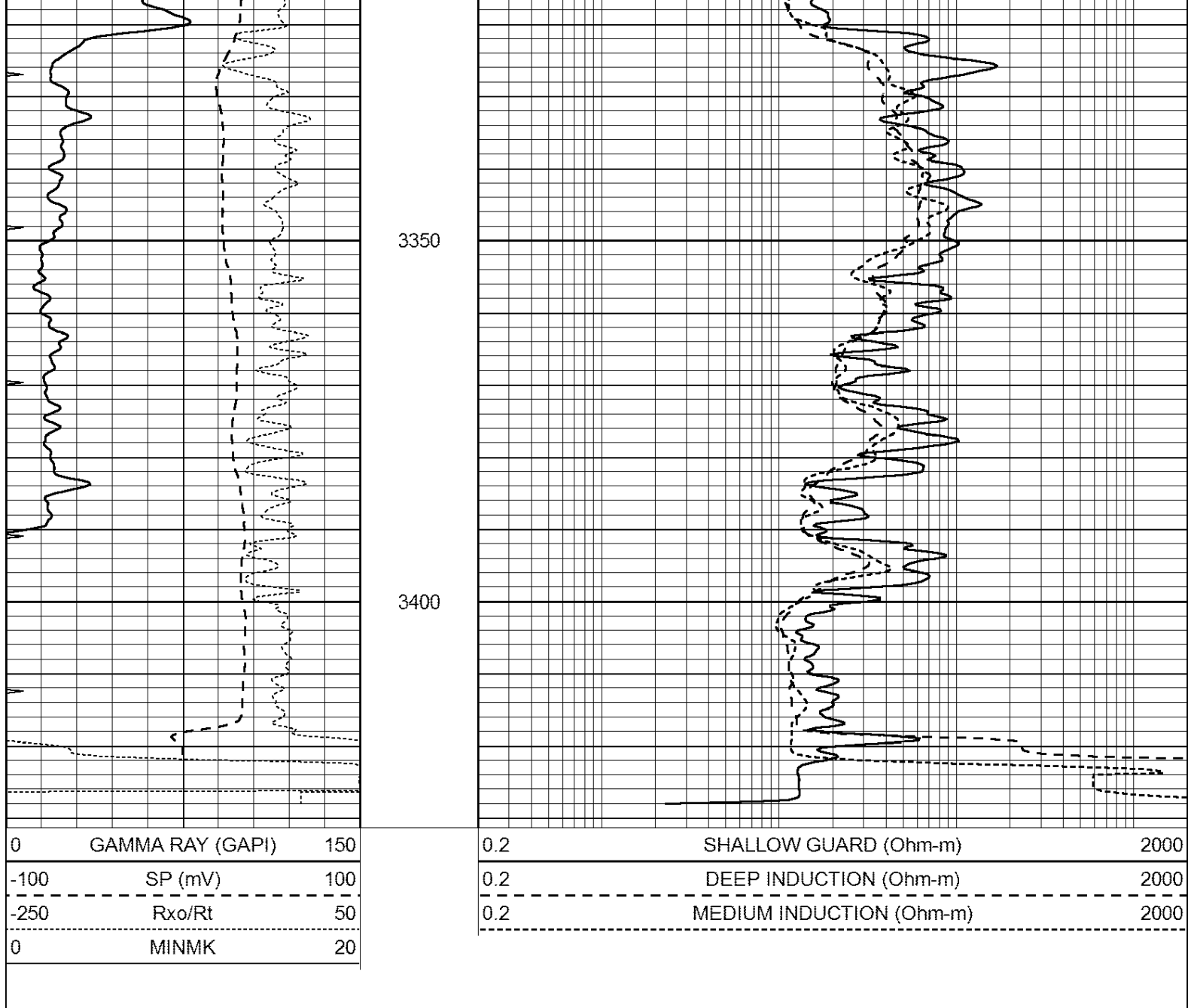
3150

3200

3250

3300





Calibration Report

Database File: 409429ddn.db
 Dataset Pathname: pass3.3
 Dataset Creation: Tue Jul 10 07:47:46 2012 by Calc Open-Cased 110302

Dual Induction Calibration Report

Serial-Model: DIL4-GEAR
 Performed: Thu Jul 05 13:44:21 2012

	Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.008	0.666	V	0.000	400.000	mmho/m	570.000	0.000	
Medium	-0.003	0.769	V	0.000	462.500	mmho/m	560.000	-2.000	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.013	0.651	V	0.000	400.000	mmho/m	627.541	-8.365	
Medium	0.020	0.754	V	0.000	462.500	mmho/m	630.311	-12.549	

Litho Density Calibration Report

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	2042.6	12312.8	4225.8	13758.4	cps
Window 2	1855.8	10134.7	3624.2	11113.1	cps
Window 3	1639.4	6760.2	2716.3	7260.3	cps
Window 4	466.4	469.2	466.1	476.5	cps
Long Space	0.0	8278.9	1768.4	9257.4	cps
Short Space	2.2	2377.3	1544.1	2574.2	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.549
Spine Angle	: 74.4	Spine Slope	: 3.577	Spine Intercept	: -18.8

Caliper

	Readings	Reference	
Low Ref	3.4	7.9	
High Ref	5.5	15.0	
	Gain: 3.4		Offset: -3.5

Compensated Neutron Calibration Report

Serial Number: 070808
 Tool Model: Probe

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number: 070559
 Tool Model: OPEN_GR
 Performed: Tue Jul 03 02:09:35 2012

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.3000 GAPI/cps



SUPERIOR
Hays,
Kansas

MICRO
LOG

Company CAERUS KANSAS, LLC.
Well BENTON #1-42
Field BOYD
County BARTON
State KANSAS

Company CAERUS KANSAS, LLC.
Well BENTON #1-42
Field BOYD
County BARTON
State KANSAS

Location: API # : 15-009-25715-0000
1598' FNL & 1026' FEL
NW - NW - SE - NE
SEC 1 TWP 18S RGE 14W
Permanent Datum GROUND LEVEL Elevation 1828
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
DIL/SONIC
Elevation
K.B. 1838
D.F. 1836
G.L. 1828

Date	7/10/12		
Run Number	TWO		
Depth Driller	3423		
Depth Logger	3424		
Bottom Logged Interval	3404		
Top Log Interval	2400		
Casing Driller	8 5/8" @ 829'		
Casing Logger	834		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6,000 PPM	
Density / Viscosity	9.3/56		
pH / Fluid Loss	10.5/9.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.450 @ 80F		
Rmt @ Meas. Temp	.334 @ 80F		
Rmc @ Meas. Temp	.540 @ 80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.324 @ 111F		
Time Circulation Stopped	3.5 HOURS		
Time Logger on Bottom	6:30 A.M.		
Maximum Recorded Temperature	111F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JUSTIN CARTER	BRIAN KARLIN	

<<< 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 SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
RUSSELL, KS. & I-70, S. TO (HWY 4 & 281) 2E. TO "RD. 20", 1 1/2S. ACROSS RR TRACKS, W. INTO

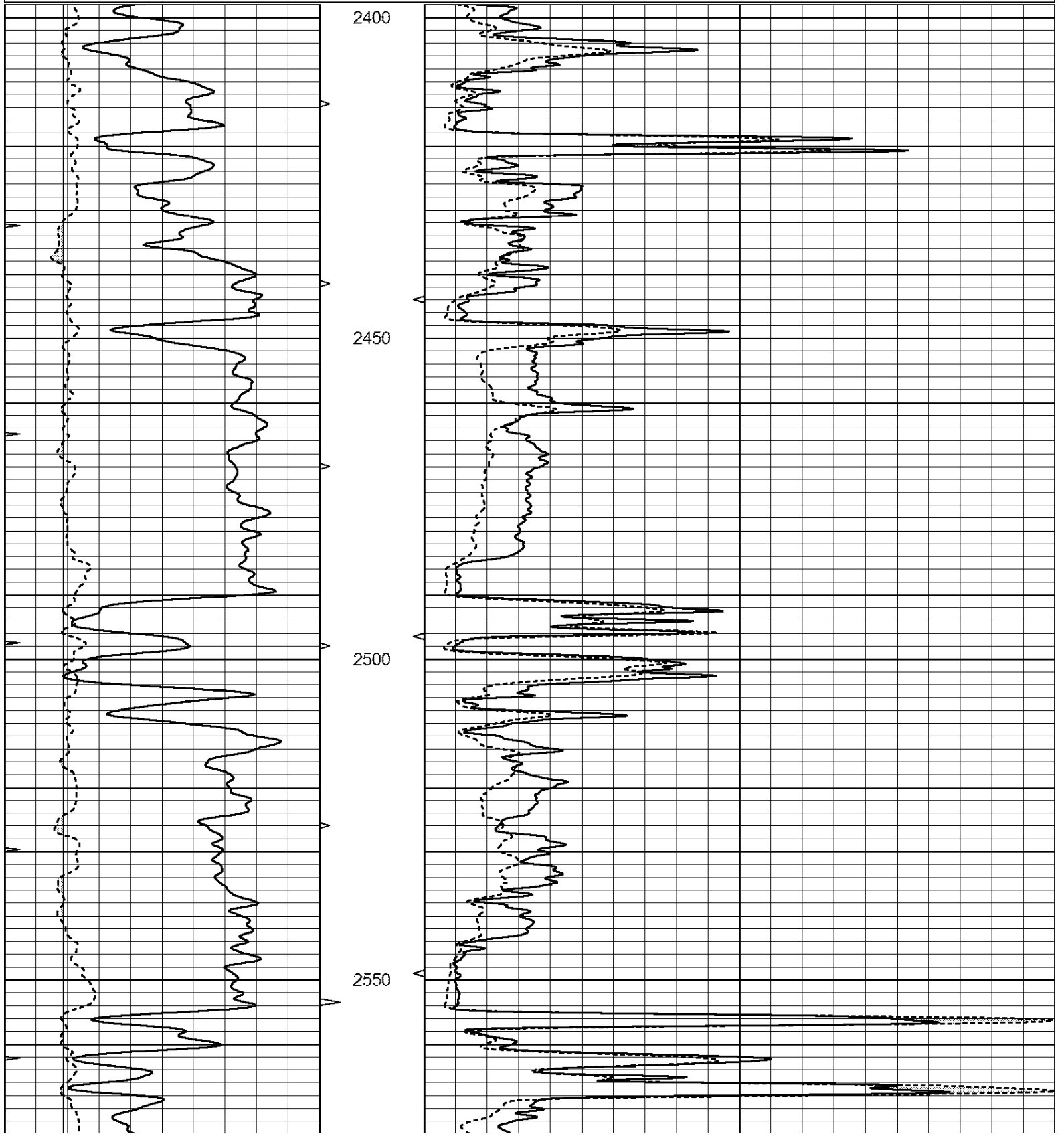


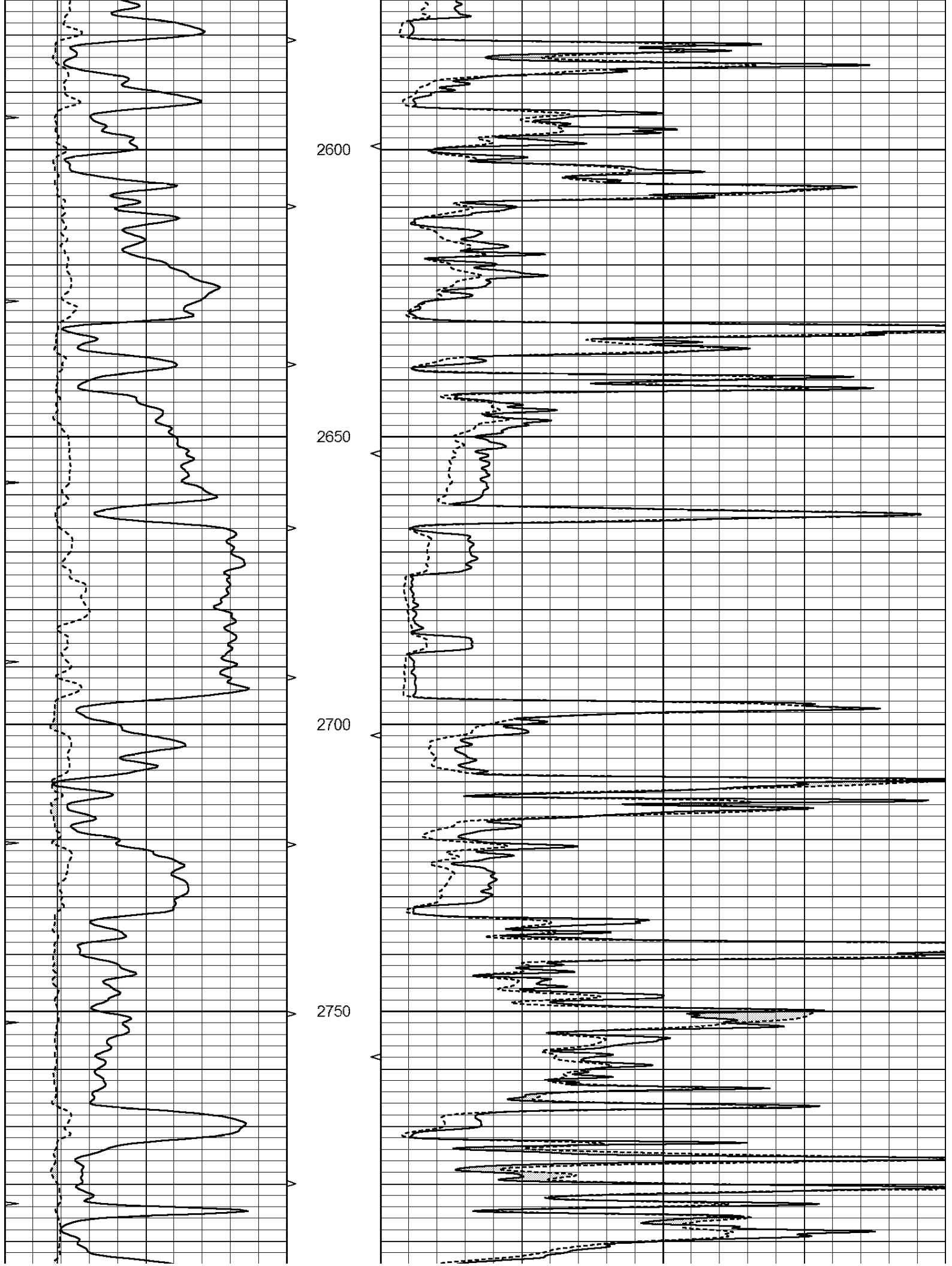
SUPERIOR
Hays,
Kansas

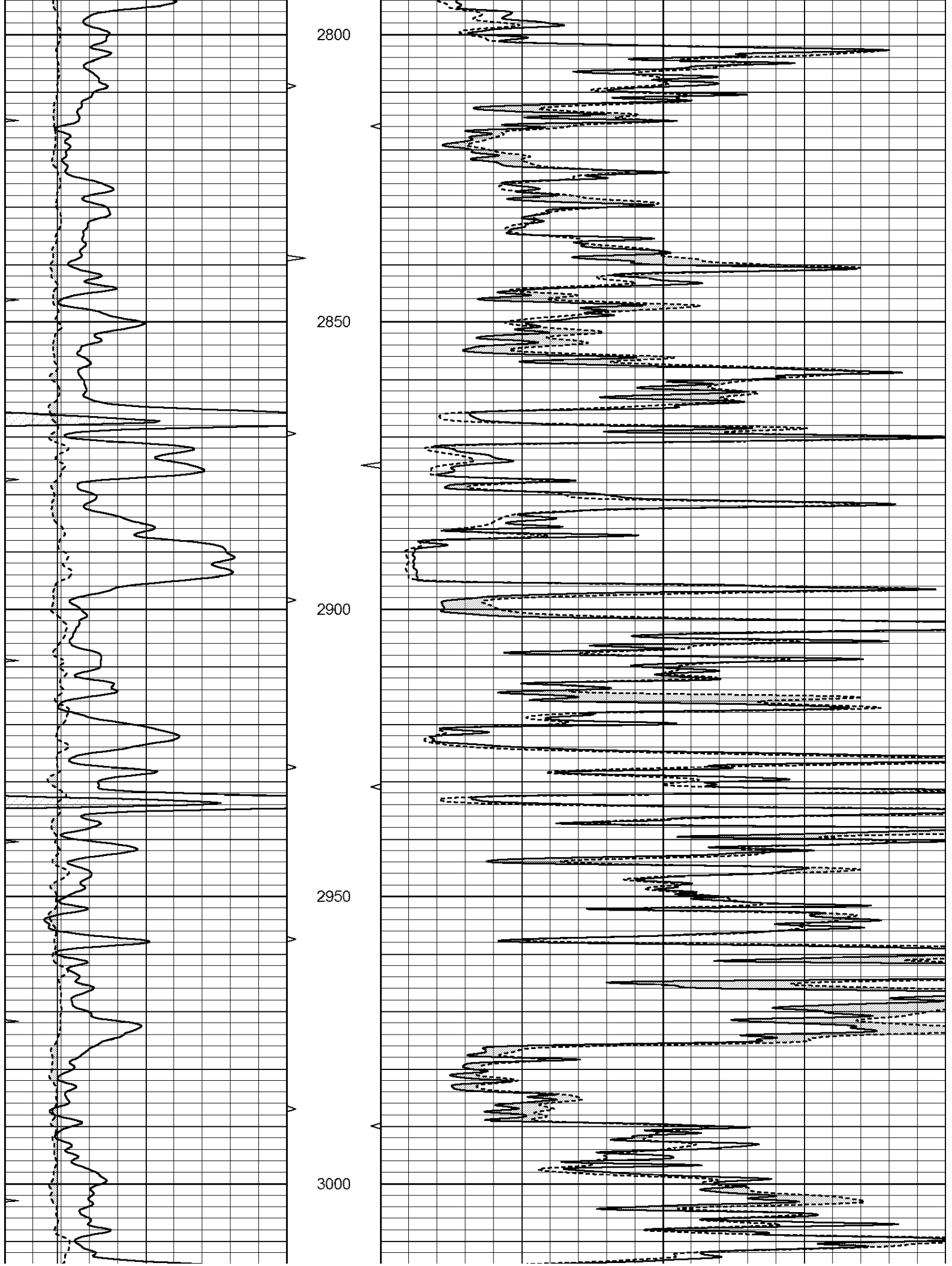
MAIN SECTION

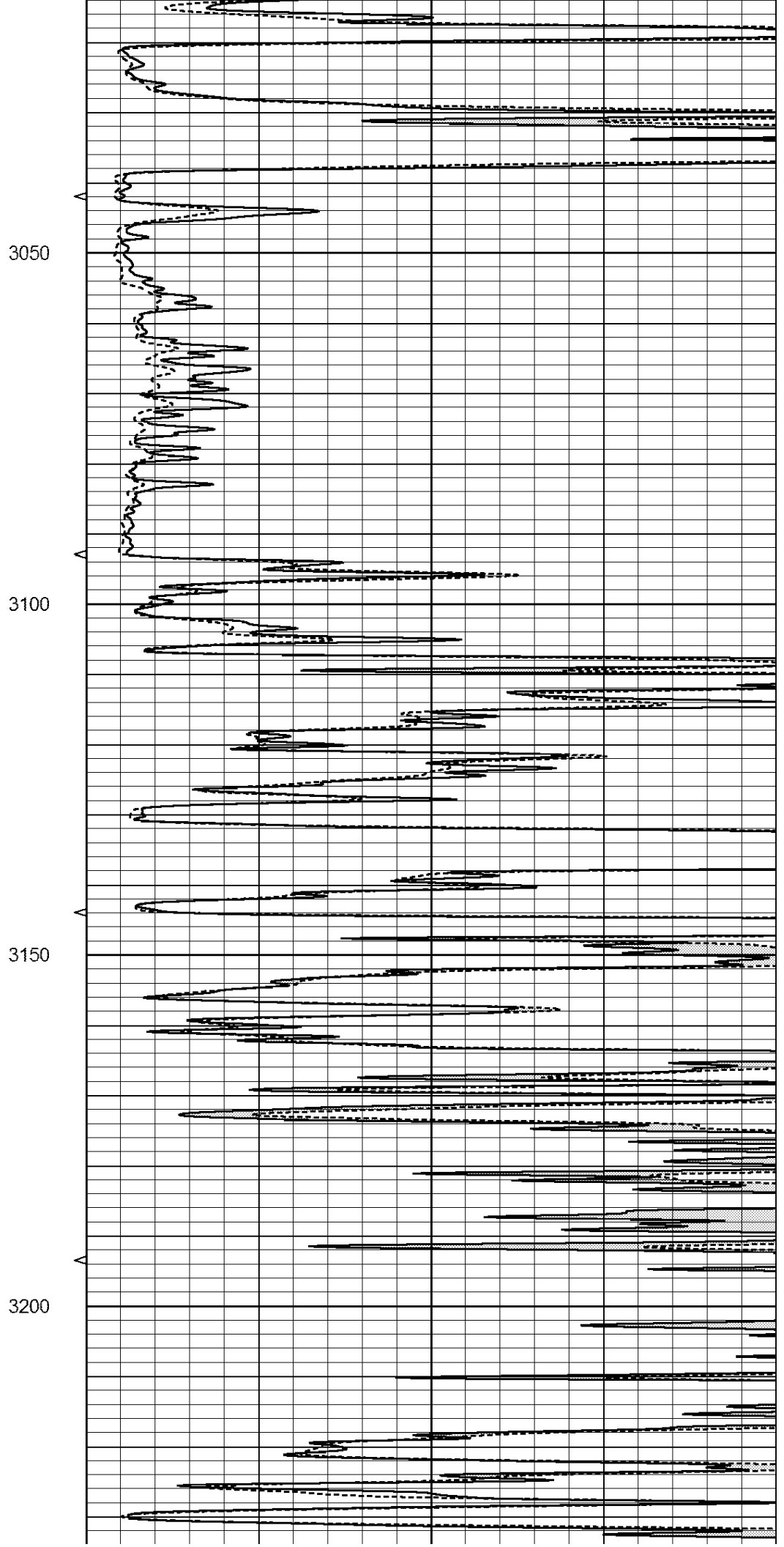
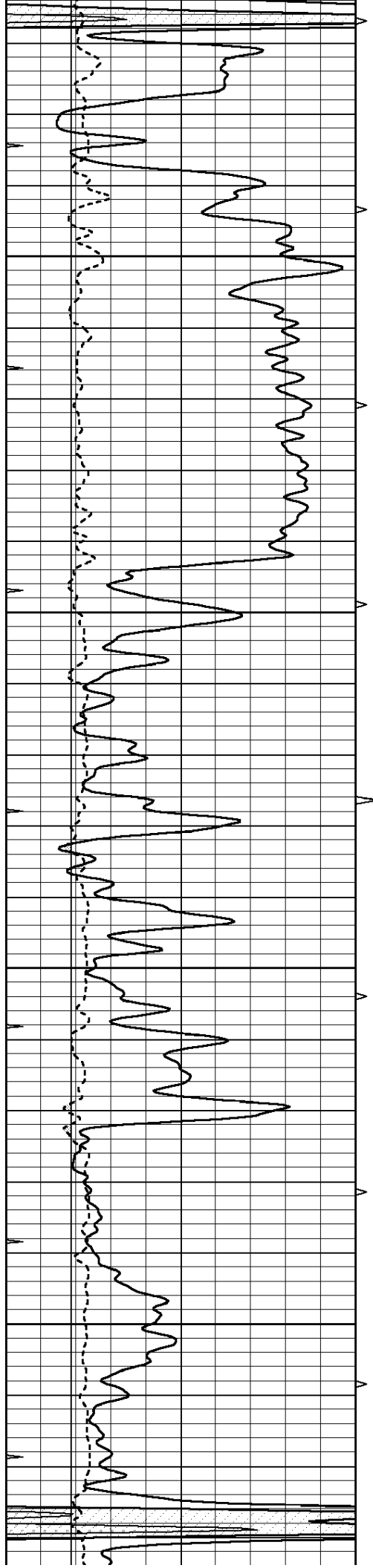
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 Dataset Pathname: pass7.3
 Presentation Format: micro
 Dataset Creation: Tue Jul 10 10:19:57 2012
 Charted by: Depth in Feet scaled 1:240

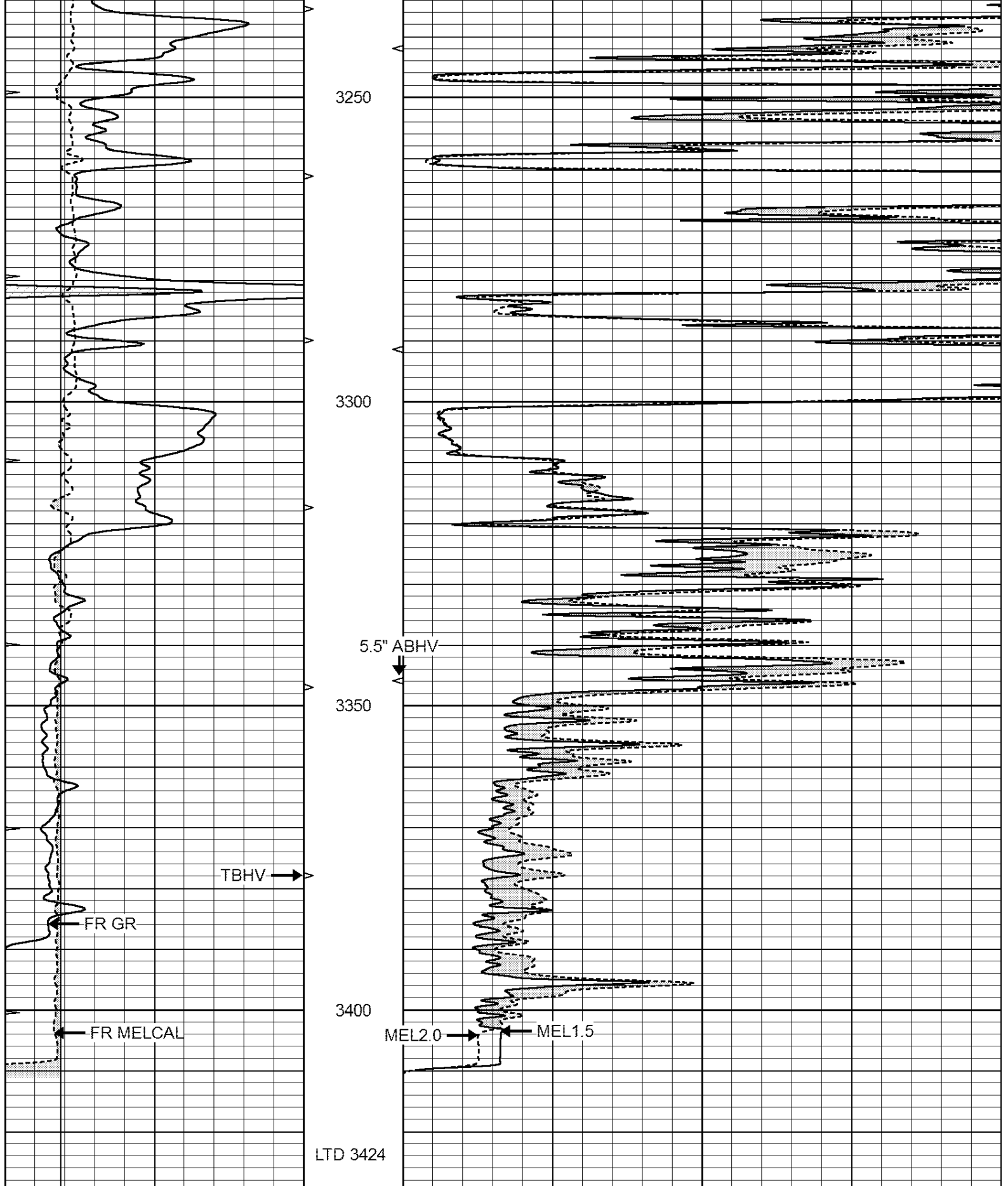
0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		











0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		

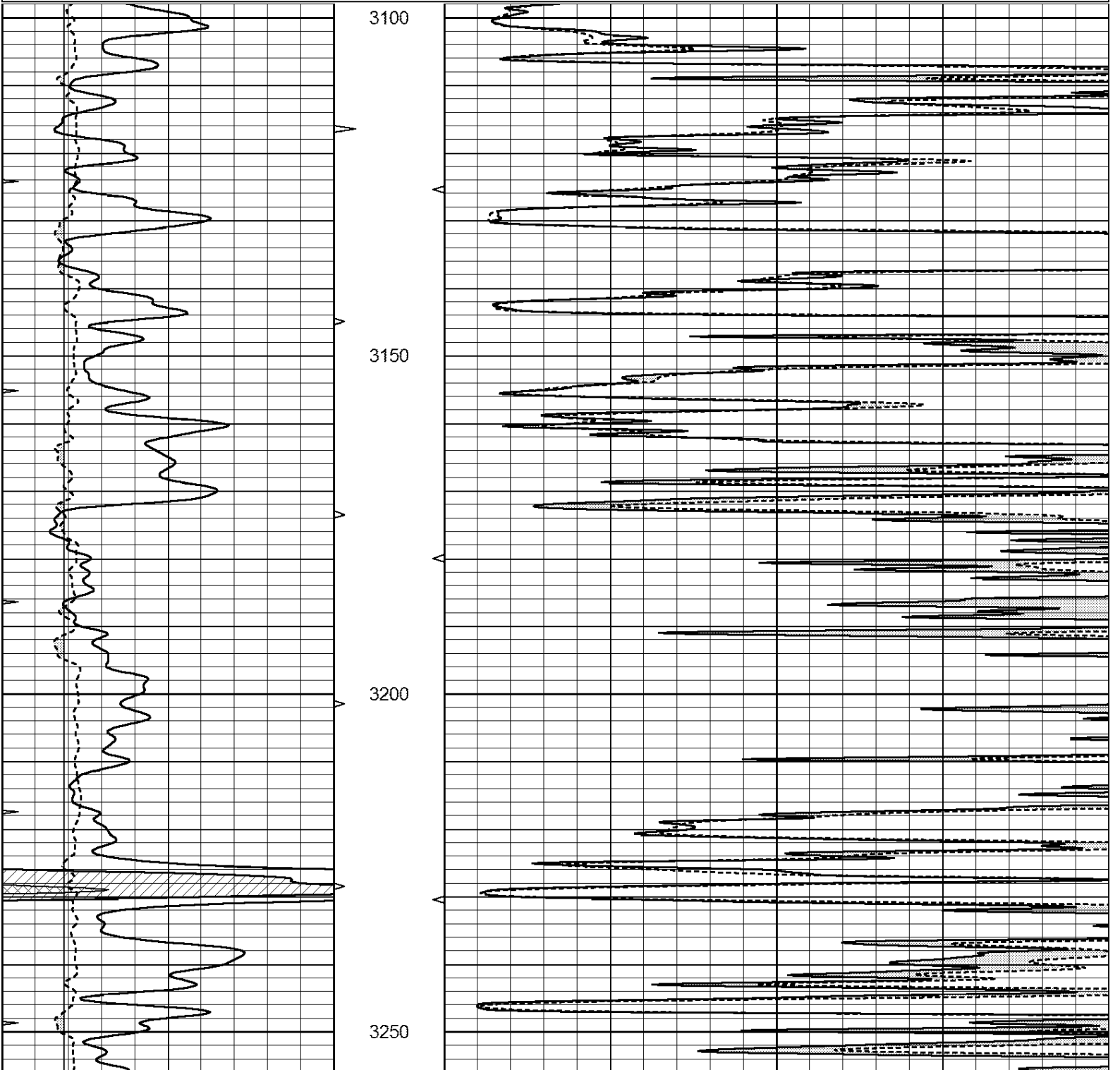


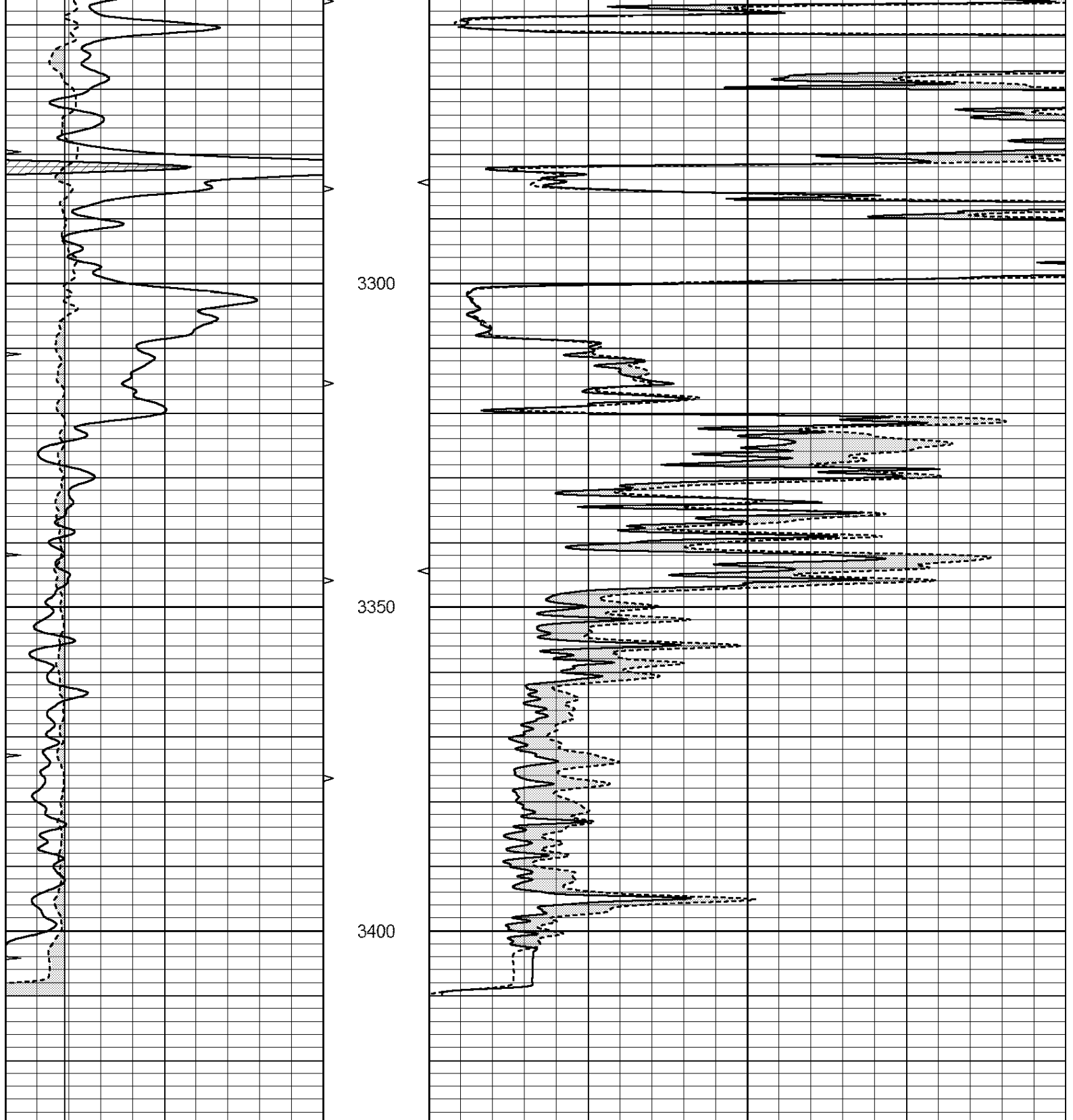
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 409429ddn.db
 Dataset Pathname: pass5.4
 Presentation Format: micro
 Dataset Creation: Tue Jul 10 09:23:58 2012
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		





0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	40
6	CALIPER (in)	16	10 (ft3)	0	MEL2.0 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3)	10		

Calibration Report

Database File: 409429ddn.db
 Dataset Pathname: pass7.3
 Dataset Creation: Tue Jul 10 10:19:57 2012

Serial Number:	MICRO5
Tool Model:	PROBE
Performed:	Tue Jul 10 08:04:01 2012

Caliper Calibration:	Gain=3.538	Offset=-1.674
	Low Cal	High Cal
References	7.900	15.000
Readings	2.706	4.713

1.5" Calibration:	Gain=35.000	Offset=0.800
	Low Cal	High Cal
References	0.000	20.000
Readings	-0.002	0.981

2" Calibration:	Gain=40.000	Offset=0.000
	Low Cal	High Cal
References	0.000	20.000
Readings	0.002	0.898

Gamma Ray Calibration Report

Serial Number:	GR4
Tool Model:	OPEN
Performed:	Tue Jul 10 08:50:02 2012

Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps
Sensitivity:	1.9000	GAPI/cps



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Hays,
Kansas

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company CAERUS KANSAS, LLC.
Well BENTON #1-42
Field BOYD
County BARTON
State KANSAS

Company CAERUS KANSAS, LLC.
Well BENTON #1-42
Field BOYD
County BARTON
State KANSAS

Location: API # : 15-009-25715-0000
1598' FNL & 1026' FEL
NW - NW - SE - NE
SEC 1 TWP 18S RGE 14W
Permanent Datum GROUND LEVEL Elevation 1828
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
DIL/MEL
SONIC
Elevation
K.B. 1838
D.F. 1836
G.L. 1828

Date	7/10/12		
Run Number	ONE		
Depth Driller	3423		
Depth Logger	3424		
Bottom Logged Interval	3400		
Top Log Interval	2400		
Casing Driller	8 5/8" @ 829'		
Casing Logger	834		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6,000 PPM	
Density / Viscosity	9.3/56		
pH / Fluid Loss	10.5/9.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.450 @ 80F		
Rmt @ Meas. Temp	.334 @ 80F		
Rmc @ Meas. Temp	.540 @ 80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.324 @ 111F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	6:30 A.M.		
Maximum Recorded Temperature	111F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JUSTIN CARTER	BRIAN KARLIN	

<<< 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 SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
RUSSELL, KS. & I-70, S. TO (HWY 4 & 281) 2E. TO "RD. 20", 1 1/2S. ACROSS RR TRACKS, W. INTO

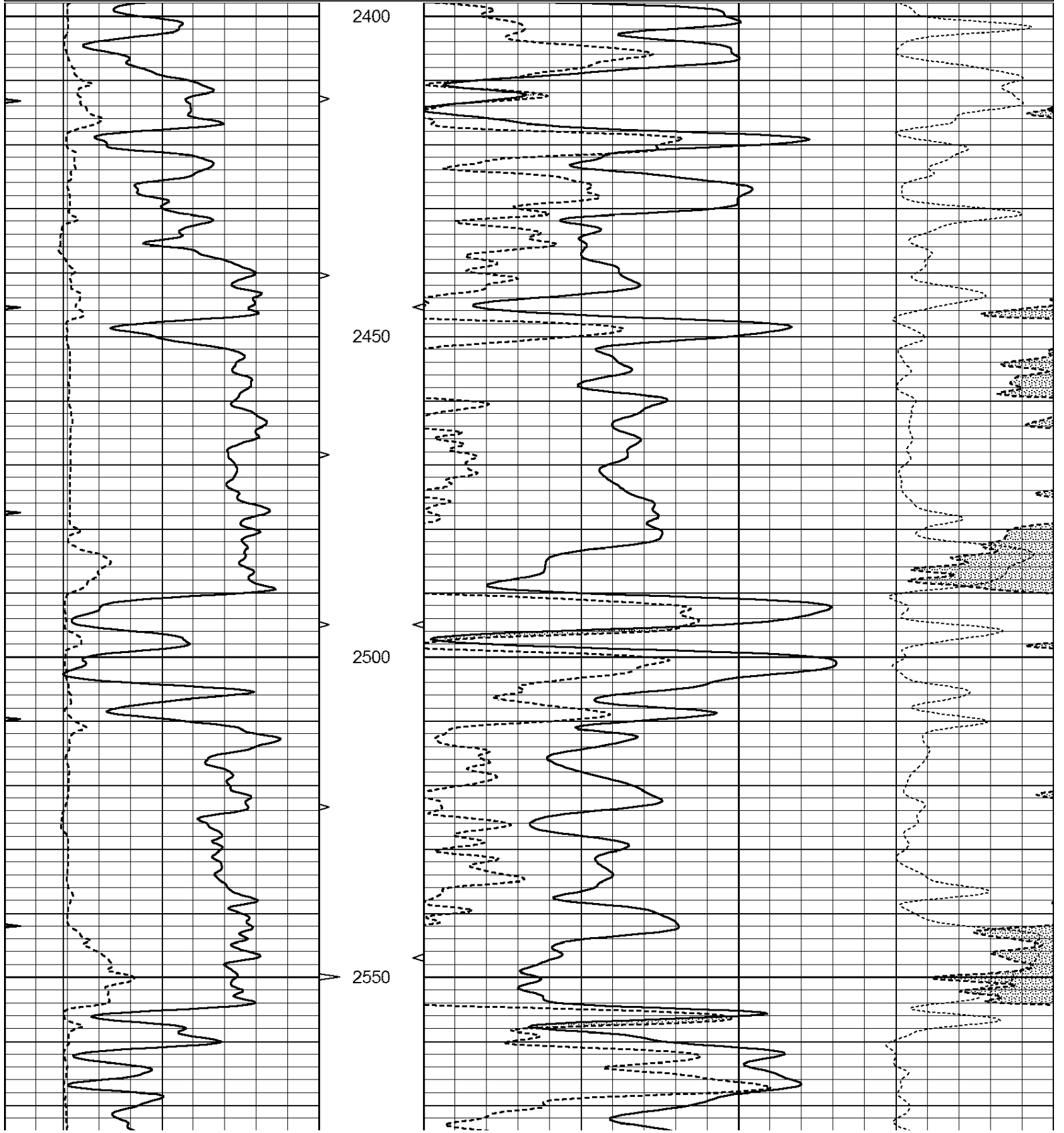


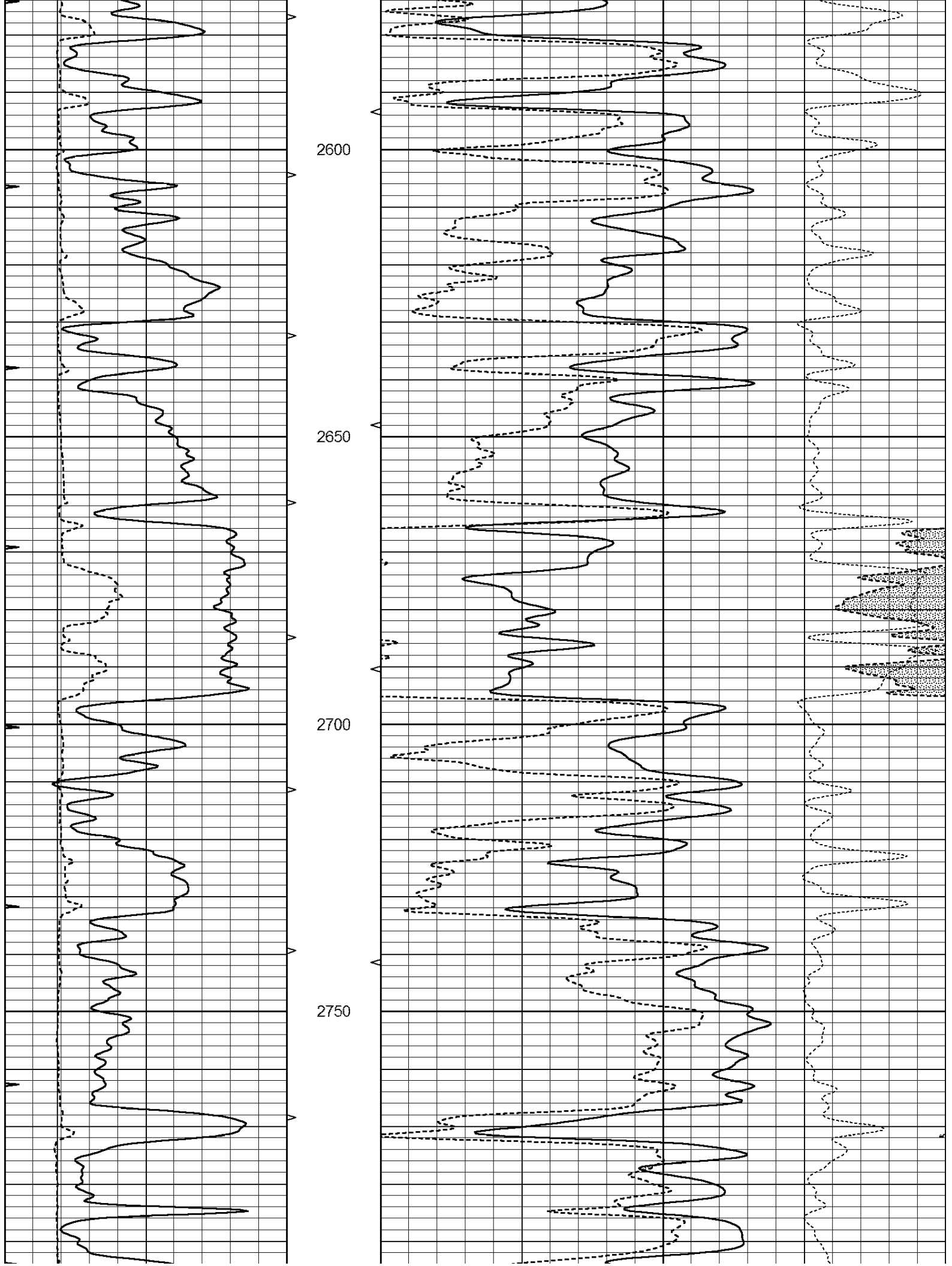
SUPERIOR
Hays,
Kansas

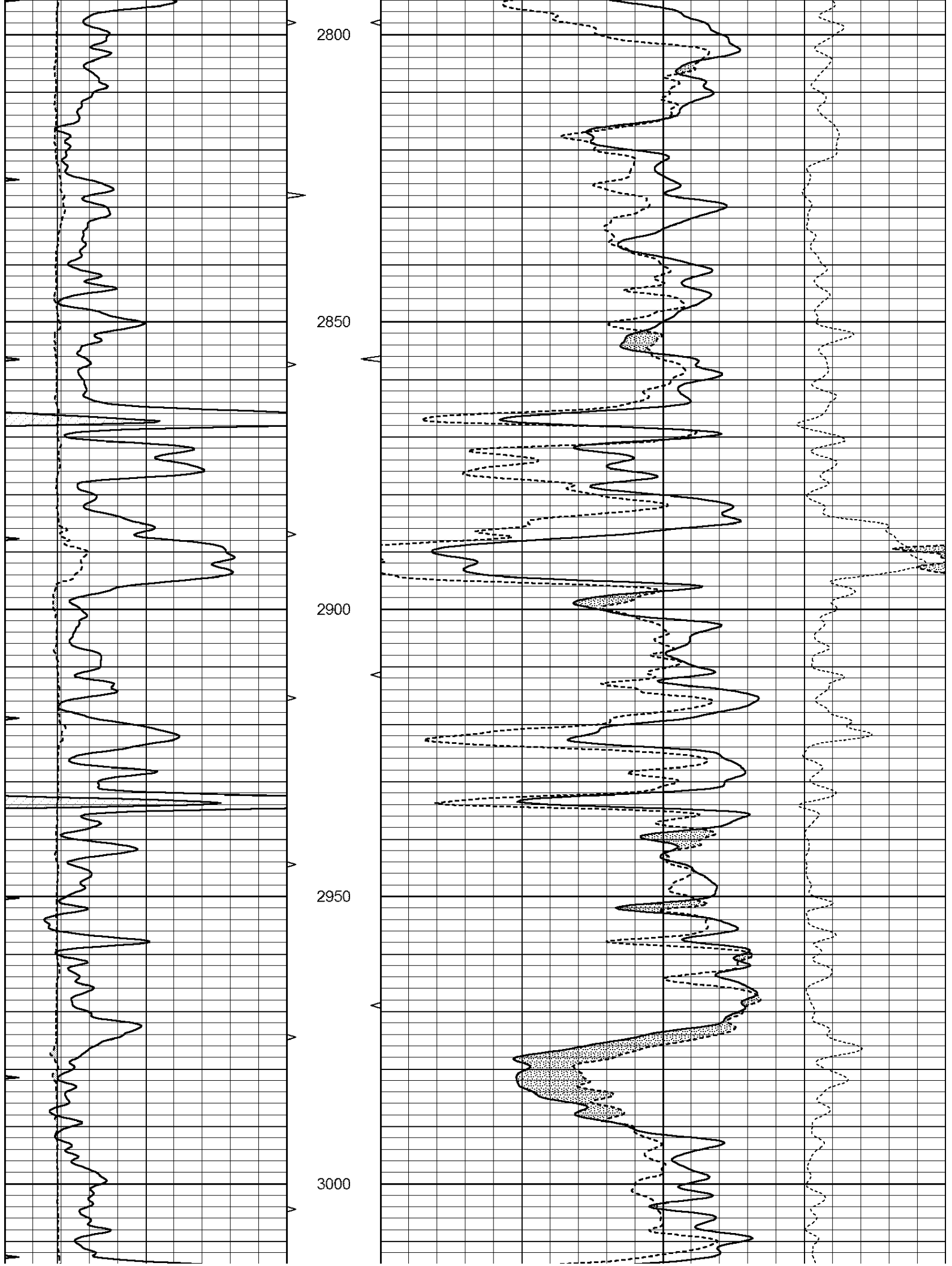
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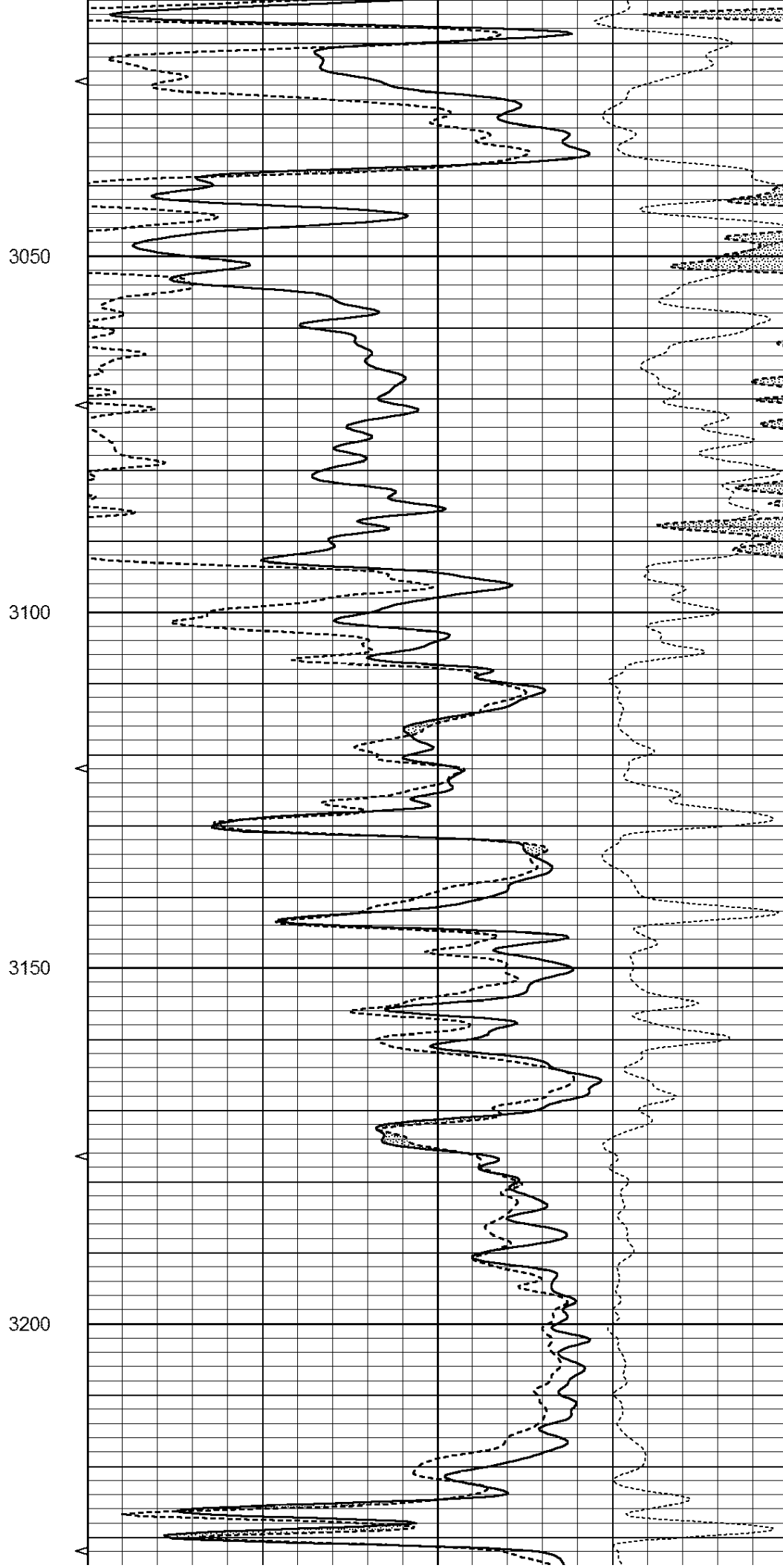
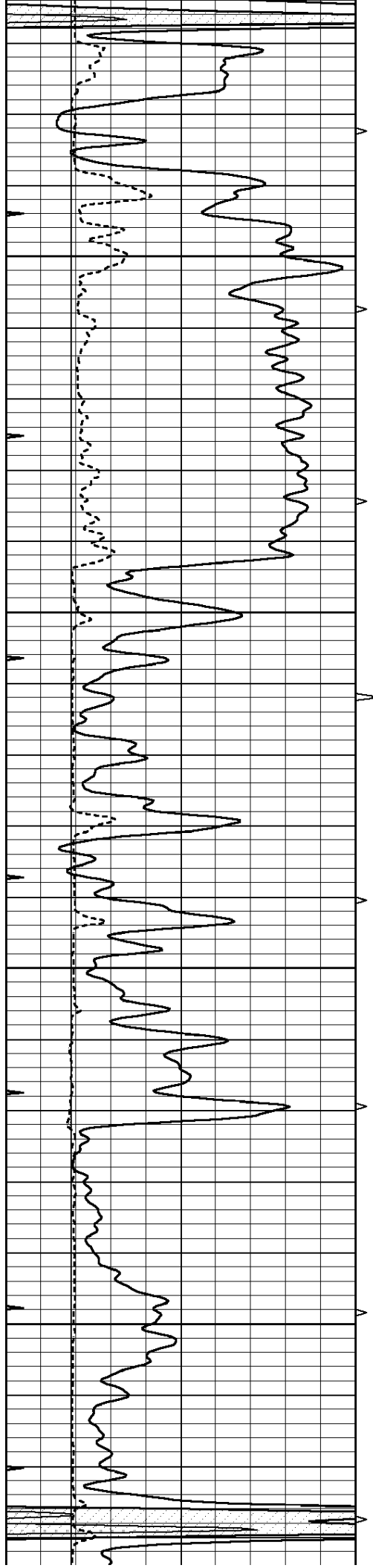
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 Dataset Pathname: pass3.3
 Presentation Format: den_neu
 Dataset Creation: Tue Jul 10 07:47:46 2012 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:240

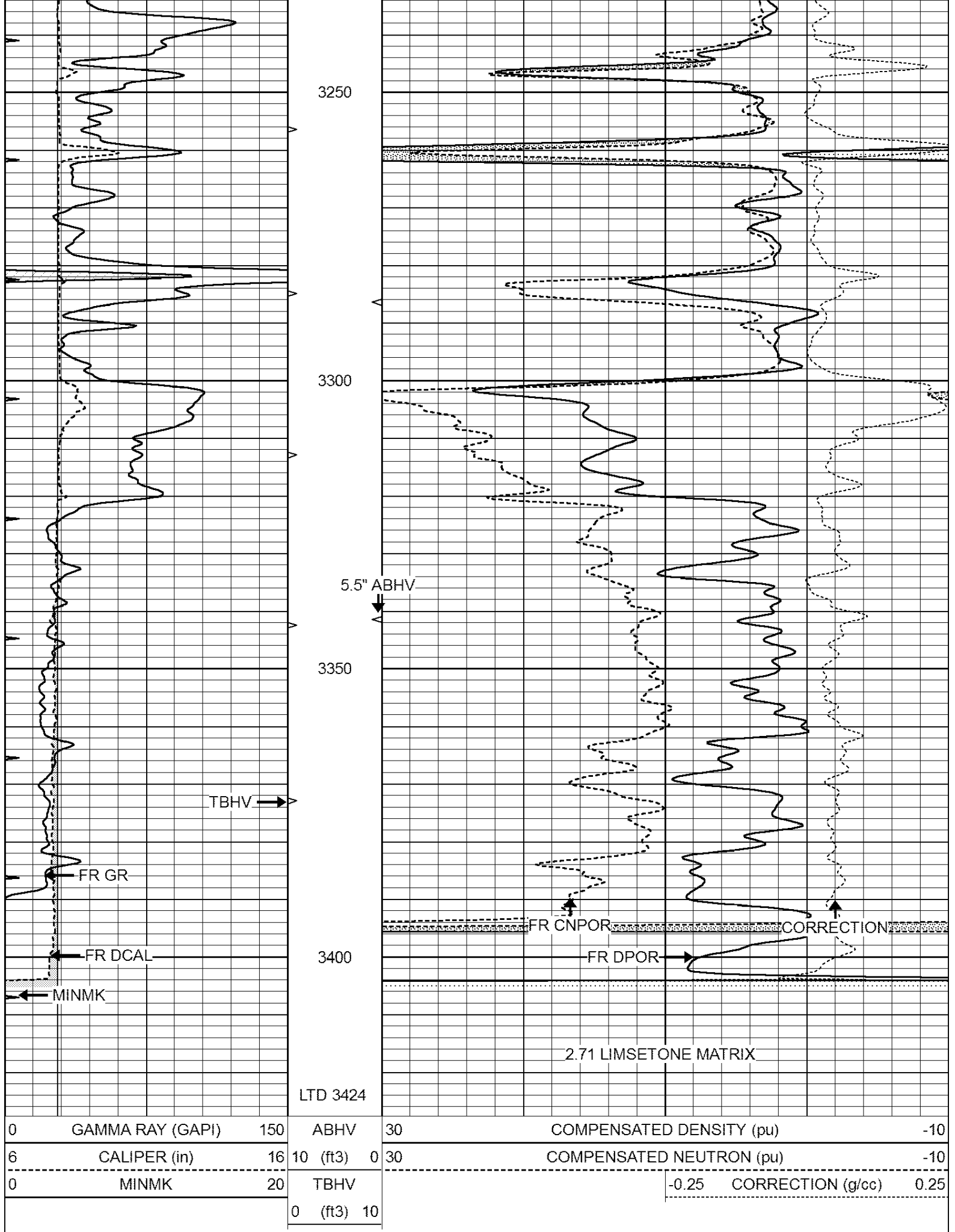
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		











0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10	
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10	
0	MINMK	20	TBHV		-0.25	CORRECTION (g/cc)	0.25
			0 (ft3)	10			

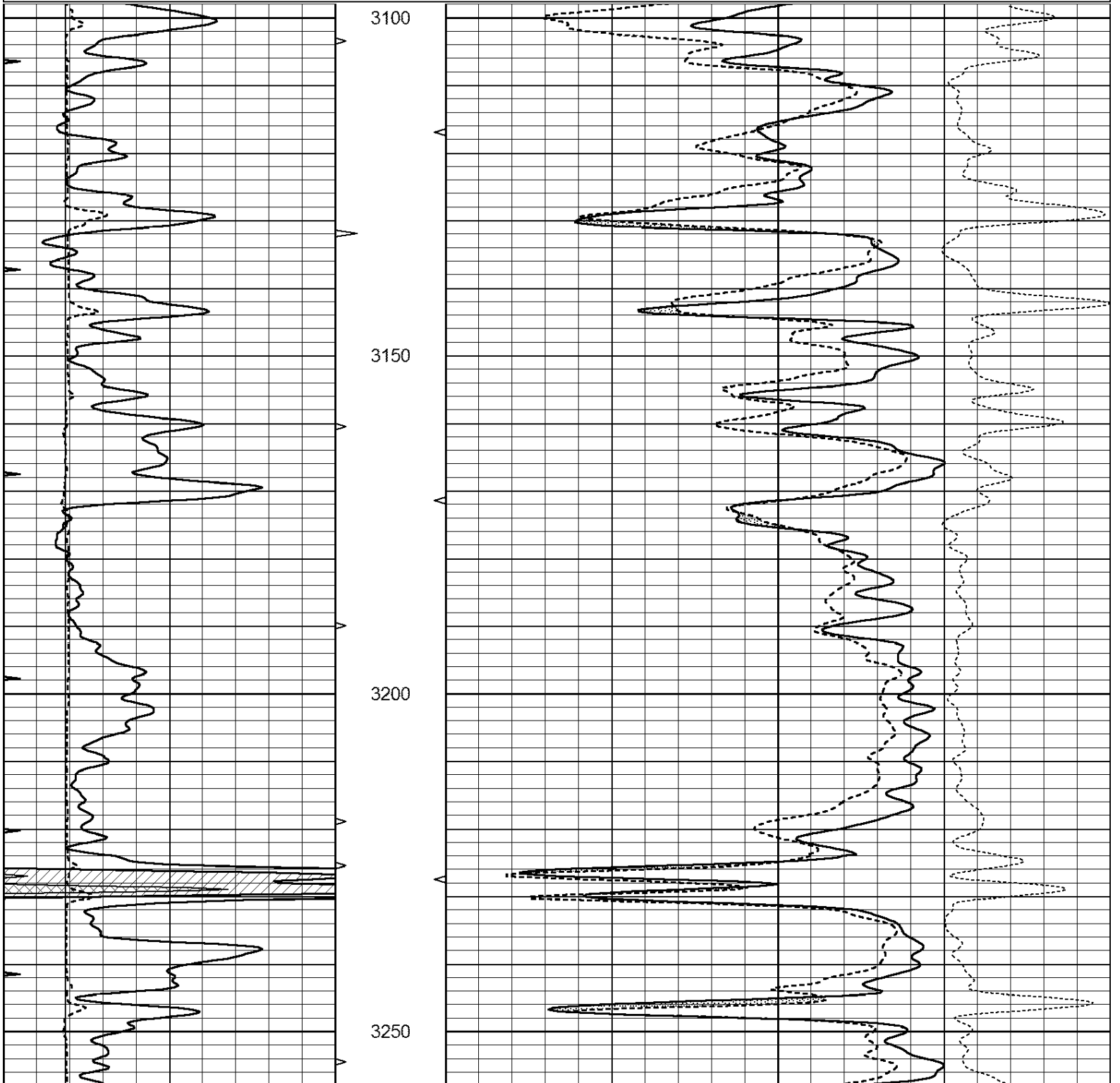


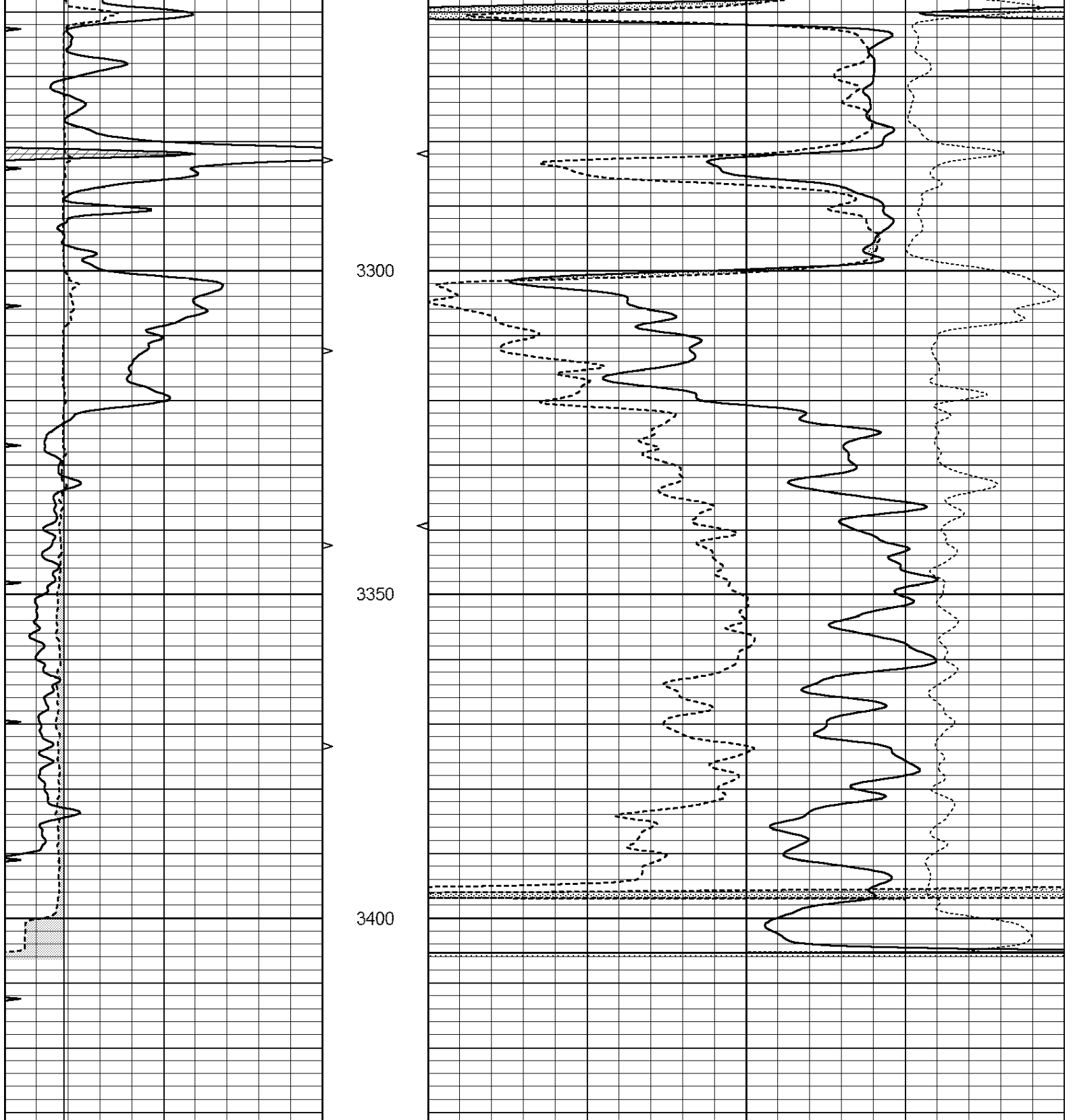
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 409429ddn.db
 Dataset Pathname: pass2.6
 Presentation Format: den_neu
 Dataset Creation: Tue Jul 10 07:53:03 2012
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		





0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25	CORRECTION (g/cc) 0.25
			0 (ft3)	10		

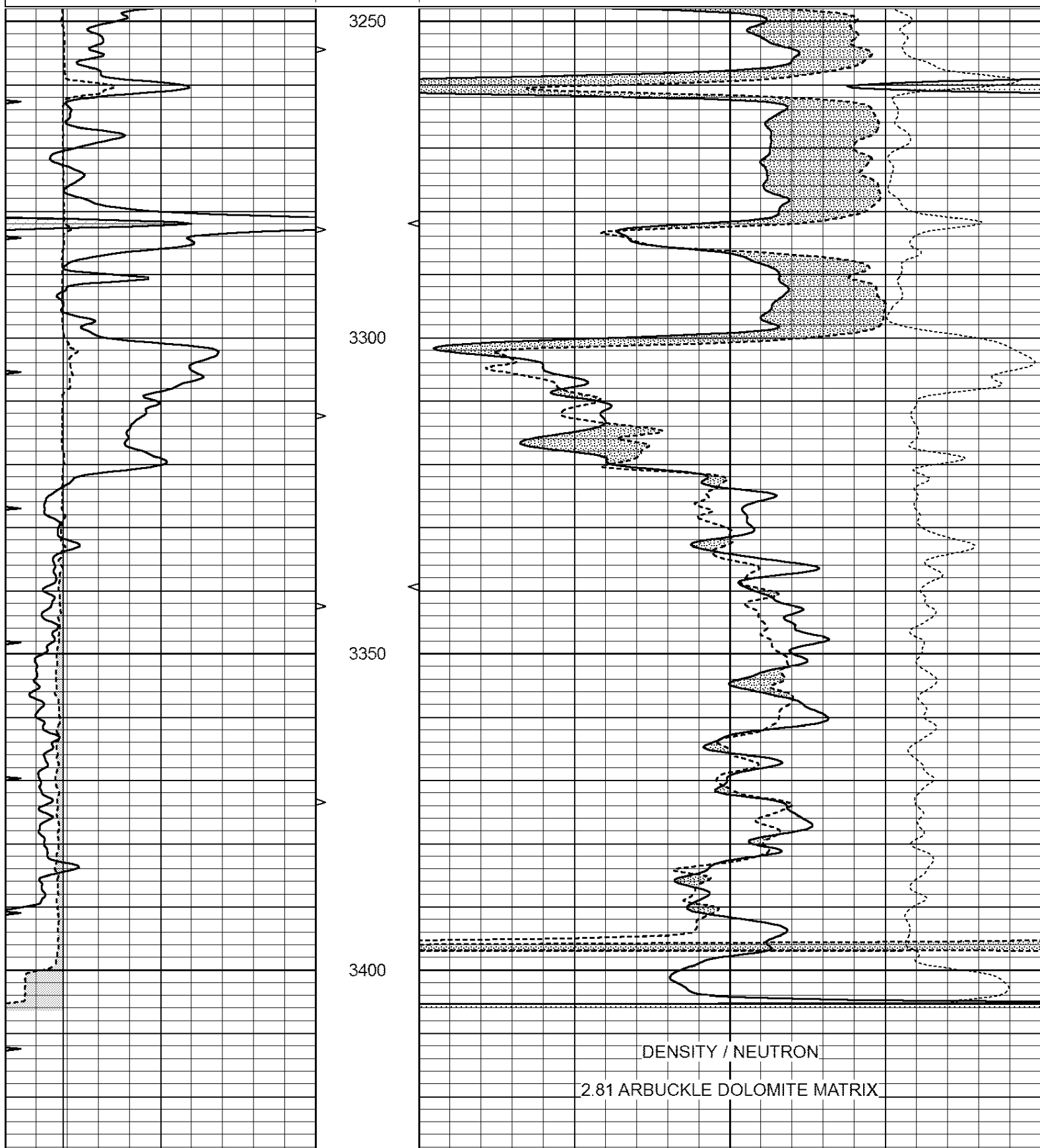


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Kansas

DOLOMITE MATRIX

Database File: 409429ddn.db
 Dataset Pathname: pass2.5
 Presentation Format: den_neu
 Dataset Creation: Tue Jul 10 06:49:35 2012
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		



0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)			-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)			-10
0	MINMK	20	TBHV		-0.25	CORRECTION (g/cc)	0.25	
			0 (ft3) 10					

Calibration Report

Database File: 409429ddn.db
Dataset Pathname: pass3.3
Dataset Creation: Tue Jul 10 07:47:46 2012 by Calc Open-Cased 110302

Dual Induction Calibration Report

Serial-Model: DIL4-GEAR
Performed: Thu Jul 05 13:44:21 2012

		Readings			References		Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.008	0.666	V	0.000	400.000	mmho/m	570.000	0.000
Medium	-0.003	0.769	V	0.000	462.500	mmho/m	560.000	-2.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.013	0.651	V	0.000	400.000	mmho/m	627.541	-8.365
Medium	0.020	0.754	V	0.000	462.500	mmho/m	630.311	-12.549

Litho Density Calibration Report

Serial: 003N Model: PRB
Performed Tue Sep 08 14:14:44 2009

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	2042.6	12312.8	4225.8	13758.4	cps
Window 2	1855.8	10134.7	3624.2	11113.1	cps
Window 3	1639.4	6760.2	2716.3	7260.3	cps
Window 4	466.4	469.2	466.1	476.5	cps
Long Space	0.0	8278.9	1768.4	9257.4	cps
Short Space	2.2	2377.3	1544.1	2574.2	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.549
Spine Angle	: 74.4	Spine Slope	: 3.577	Spine Intercept	: -18.8

Caliper

	Readings	Reference	
Low Ref	3.4	7.9	
High Ref	5.5	15.0	
Gain:	3.4		Offset: -3.5

Compensated Neutron Calibration Report

Serial Number: 070808
Tool Model: Probe

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	070559	
Tool Model:	OPEN_GR	
Performed:	Tue Jul 03 02:09:35 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.3000	GAPI/cps



SUPERIOR
Hays,
Kansas

SONIC
LOG

Company CAERUS KANSAS, LLC.
Well BENTON #1-42
Field BOYD
County BARTON
State KANSAS

Company CAERUS KANSAS, LLC.
Well BENTON #1-42
Field BOYD
County BARTON
State KANSAS

Location: API # : 15-009-25715-0000
1598' FNL & 1026' FEL
NW - NW - SE - NE
SEC 1 TWP 18S RGE 14W
Permanent Datum GROUND LEVEL Elevation 1828
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
DIL/MEL
Elevation
K.B. 1838
D.F. 1836
G.L. 1828

Date	7/10/12
Run Number	TWO
Depth Driller	3423
Depth Logger	3424
Bottom Logged Interval	3414
Top Log Interval	800
Casing Driller	8 5/8"@829'
Casing Logger	834
Bit Size	7 7/8"
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.3/56
pH / Fluid Loss	10.5/9.2
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.450@80F
Rmt @ Meas. Temp	.334@80F
Rmc @ Meas. Temp	.540@80F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.324@111F
Time Circulation Stopped	3.5 HOURS
Time Logger on Bottom	6:30 A.M.
Maximum Recorded Temperature	111F
Equipment Number	4010
Location	HAYS, KANSAS
Recorded By	JEFF LUEBBERS
Witnessed By	JUSTIN CARTER
	BRIAN KARLIN

<<< 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 SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
RUSSELL, KS. & I-70, S. TO (HWY 4 & 281) 2E. TO "RD. 20", 1 1/2S. ACROSS RR TRACKS, W. INTO

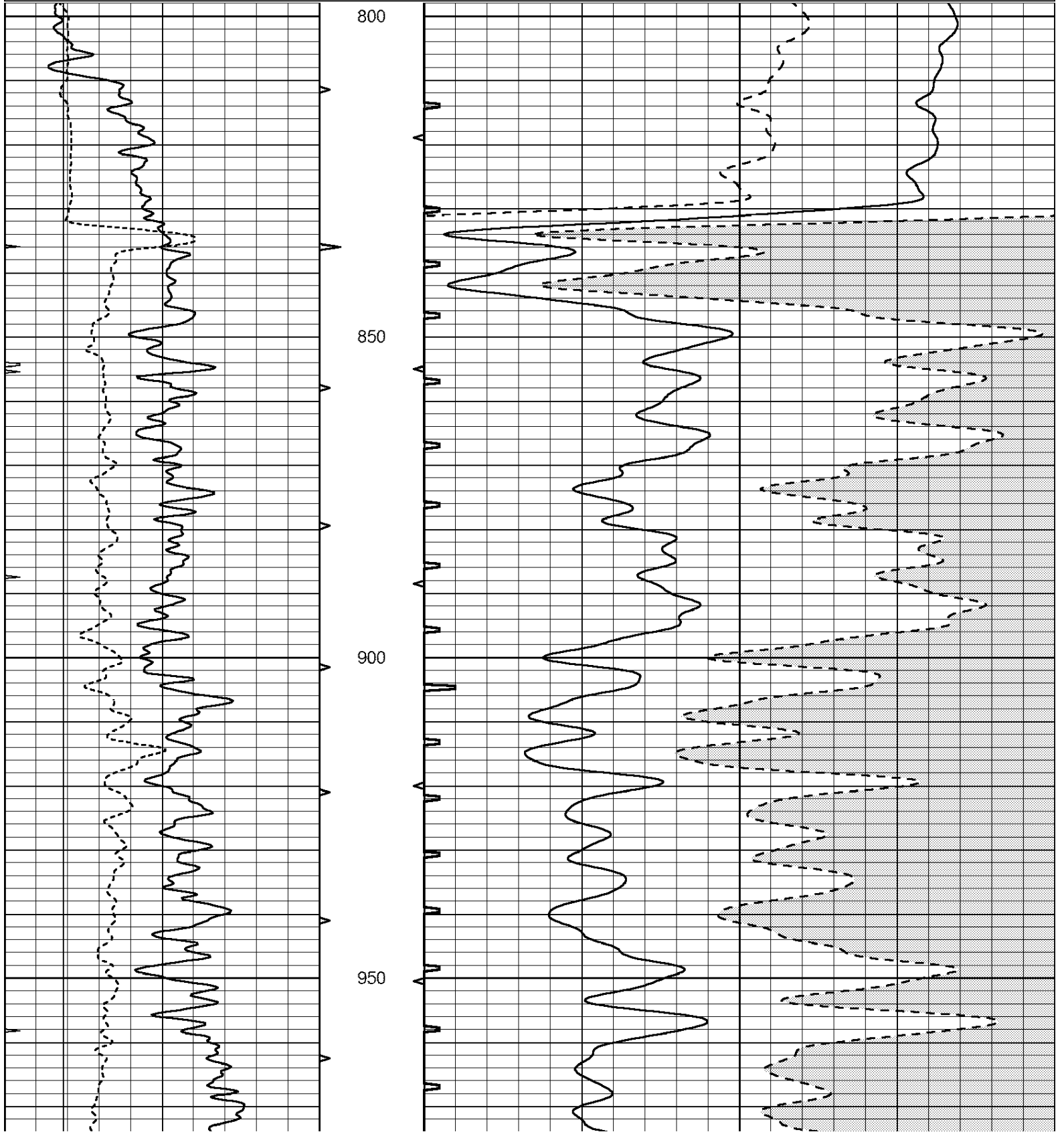


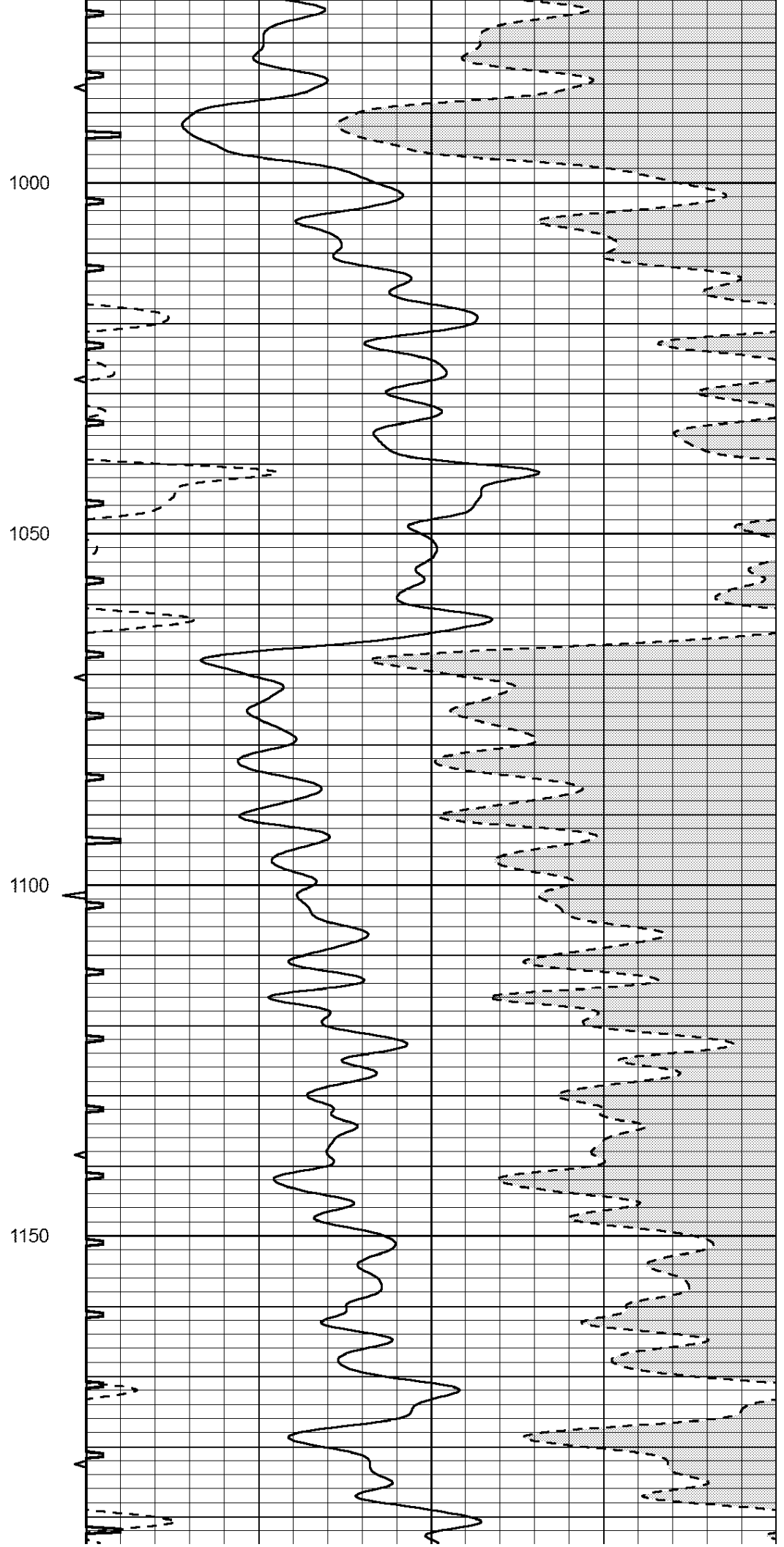
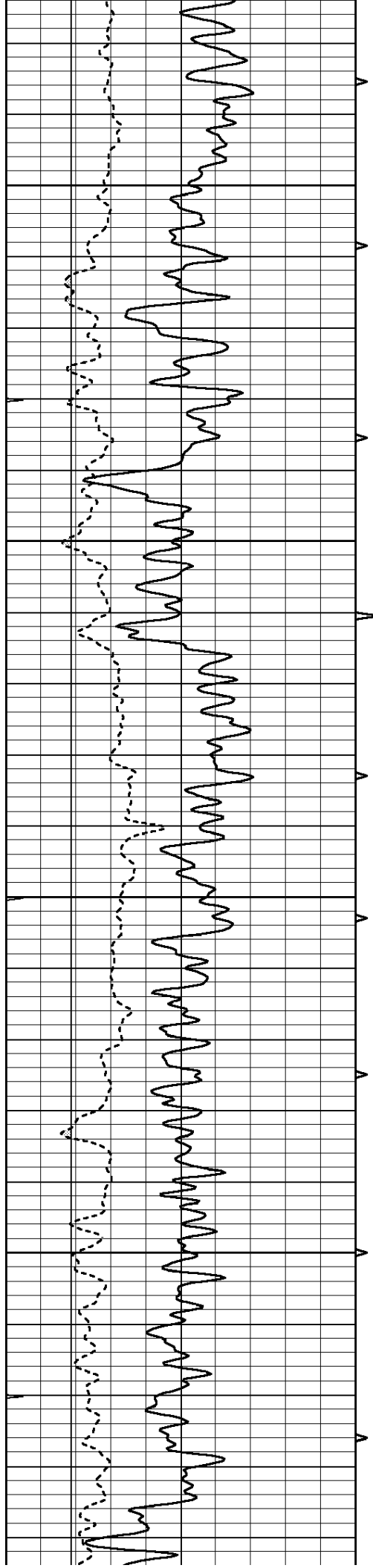
SUPERIOR
Hays,
Kansas

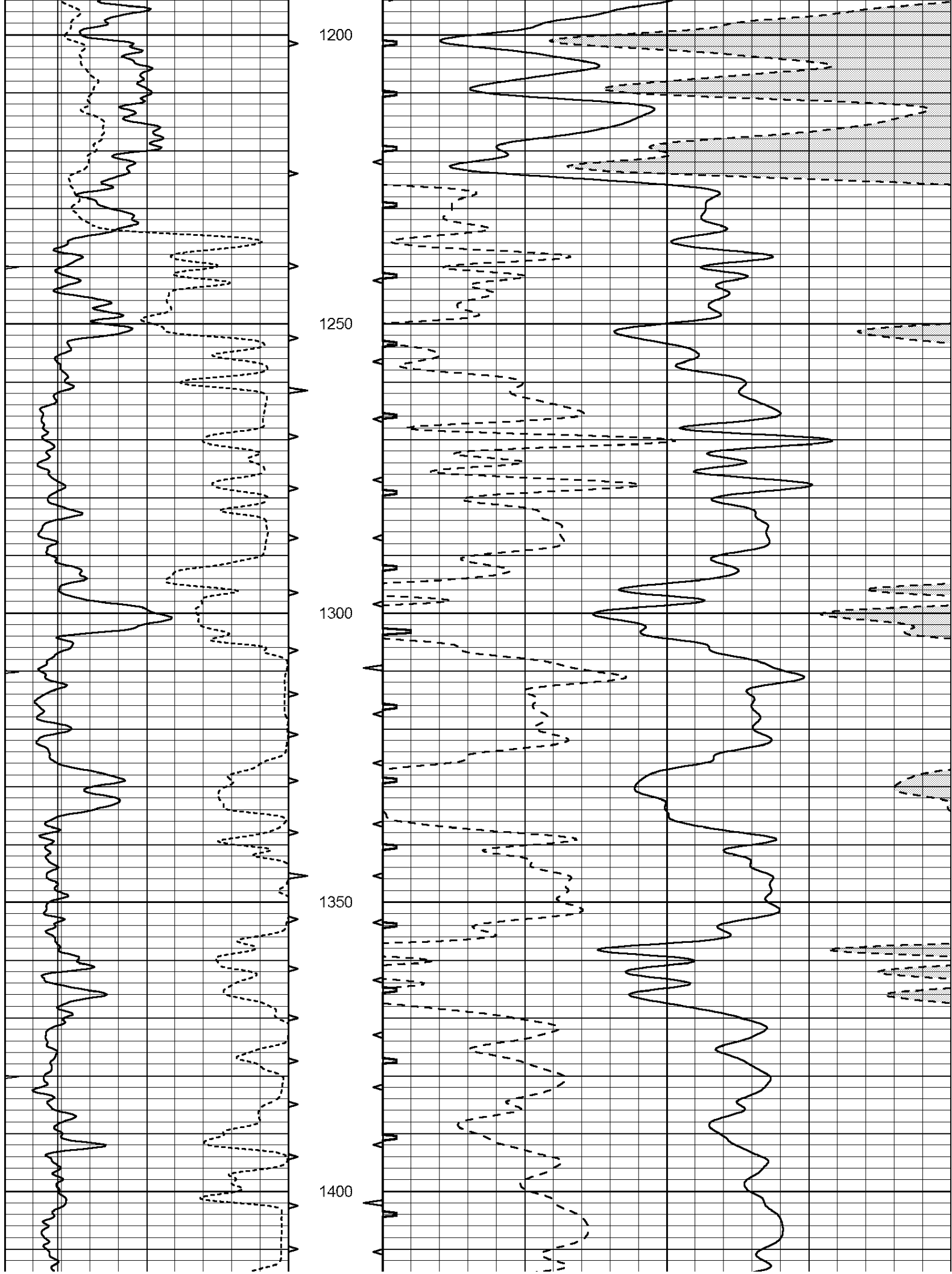
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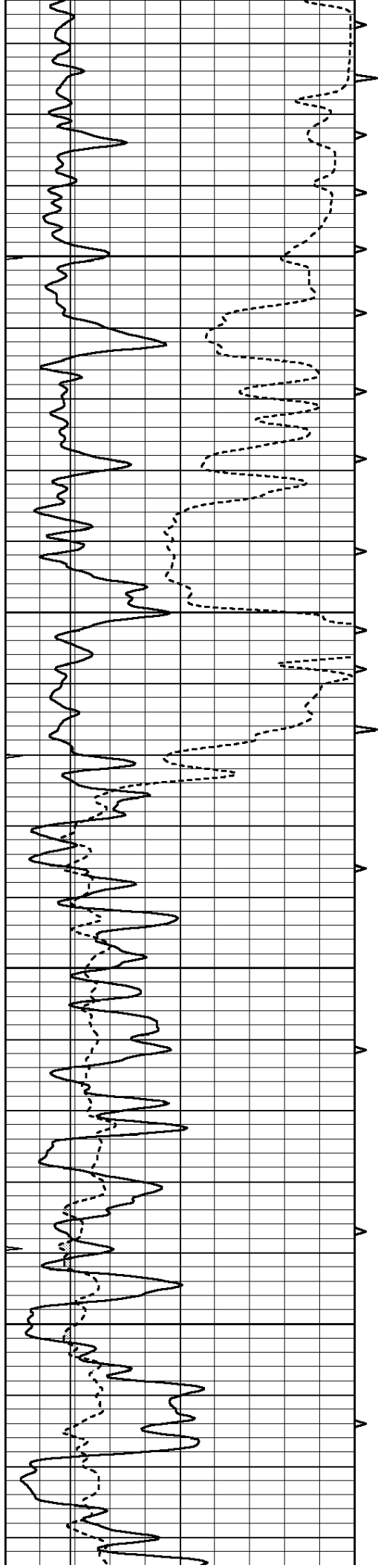
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 Charted by: Depth in Feet scaled 1:240

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6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			







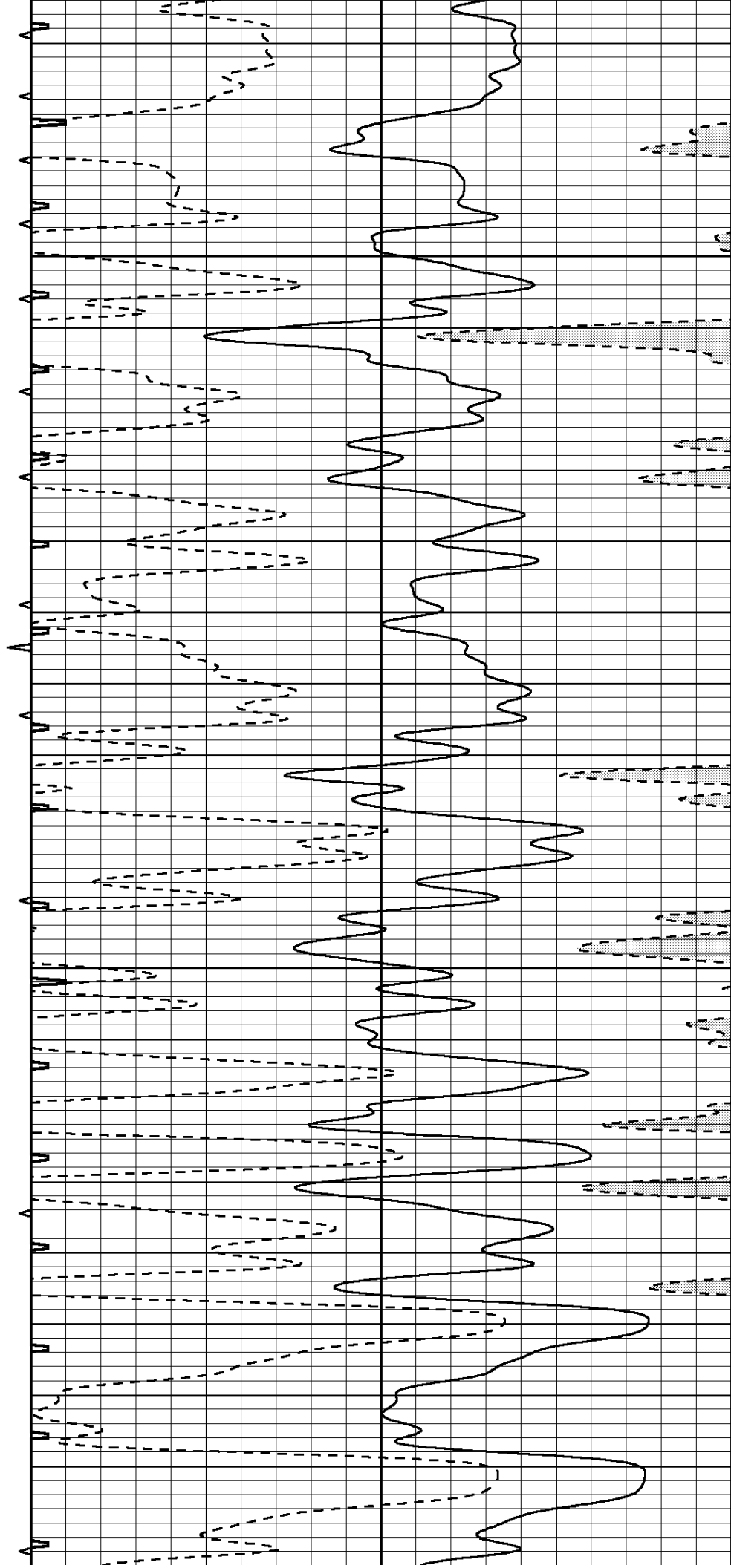


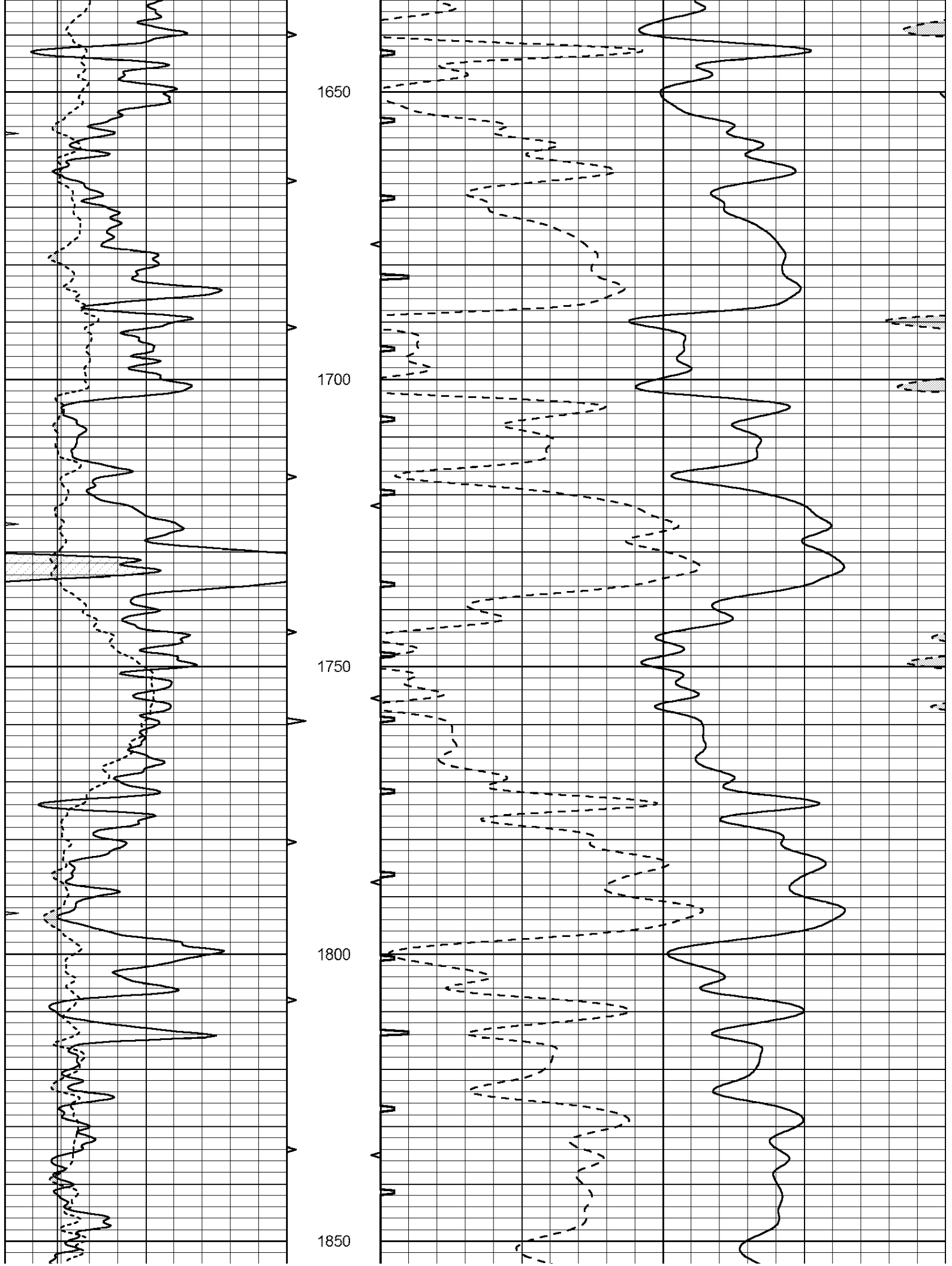
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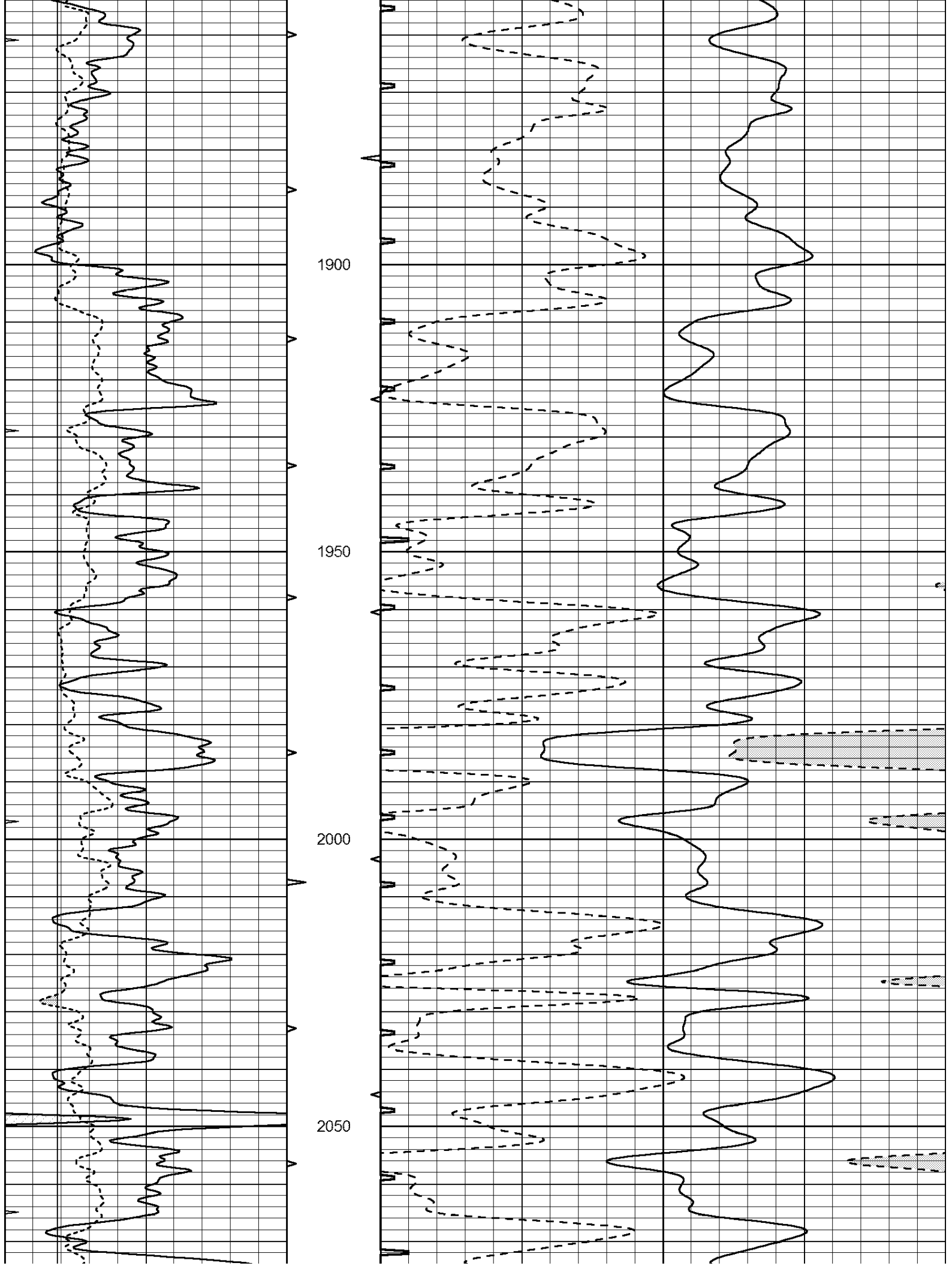
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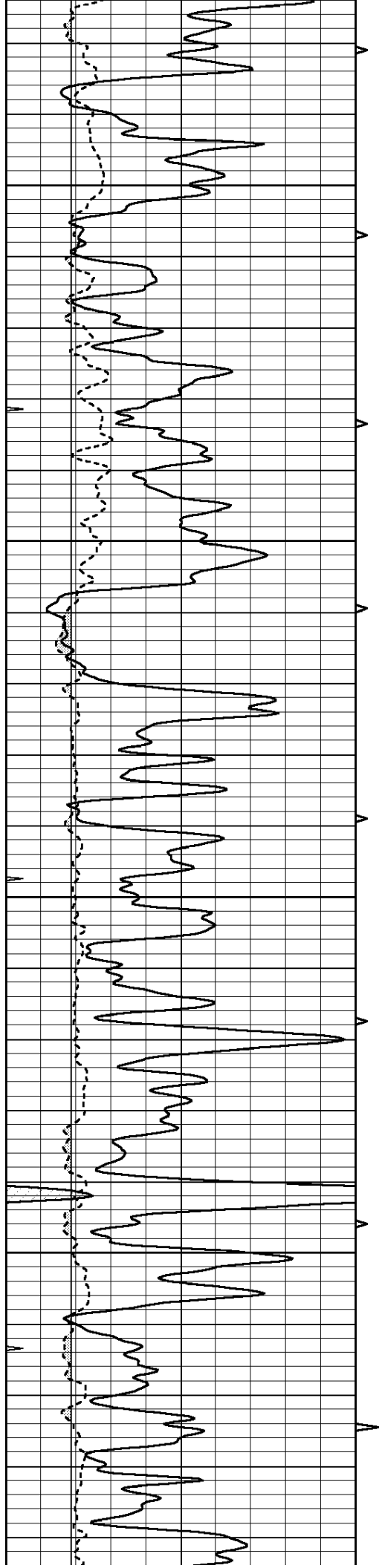
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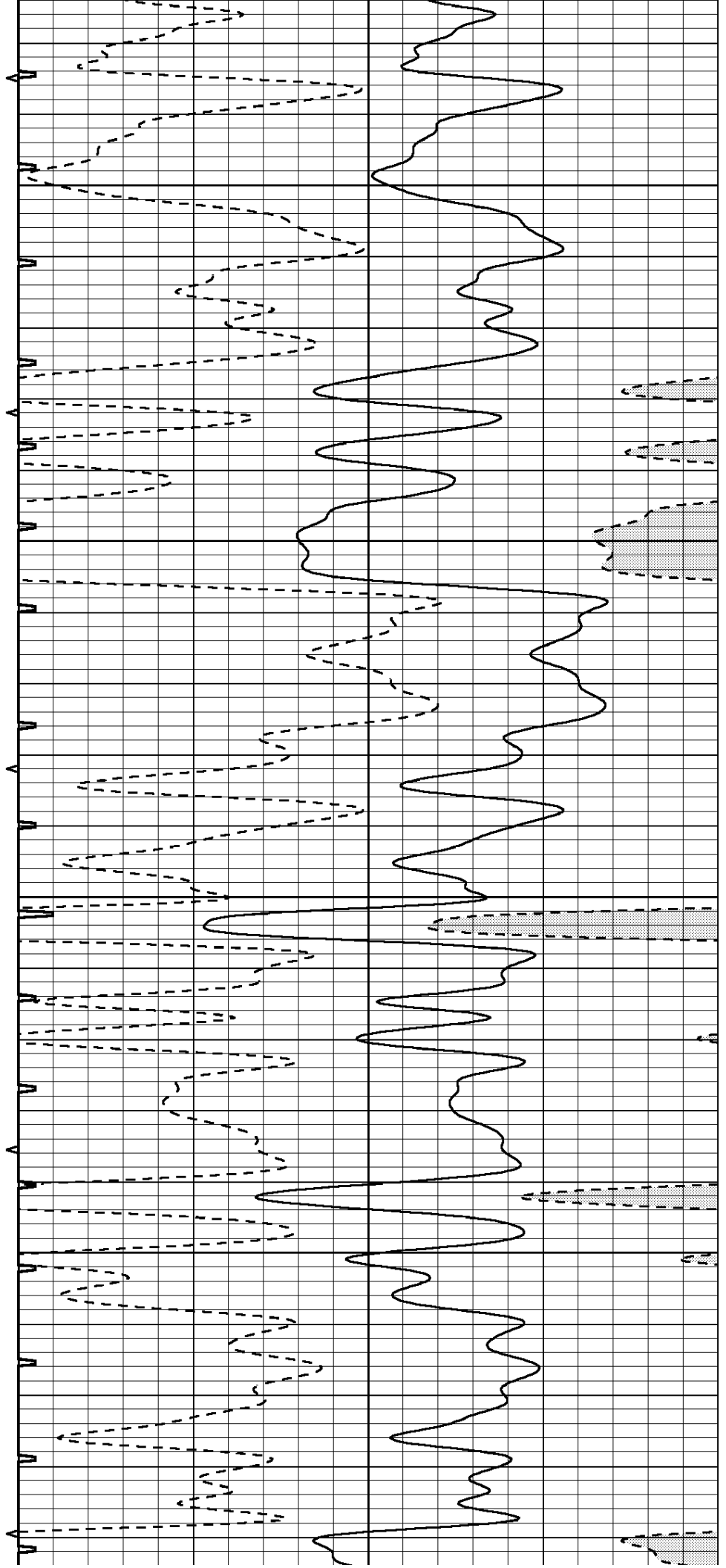


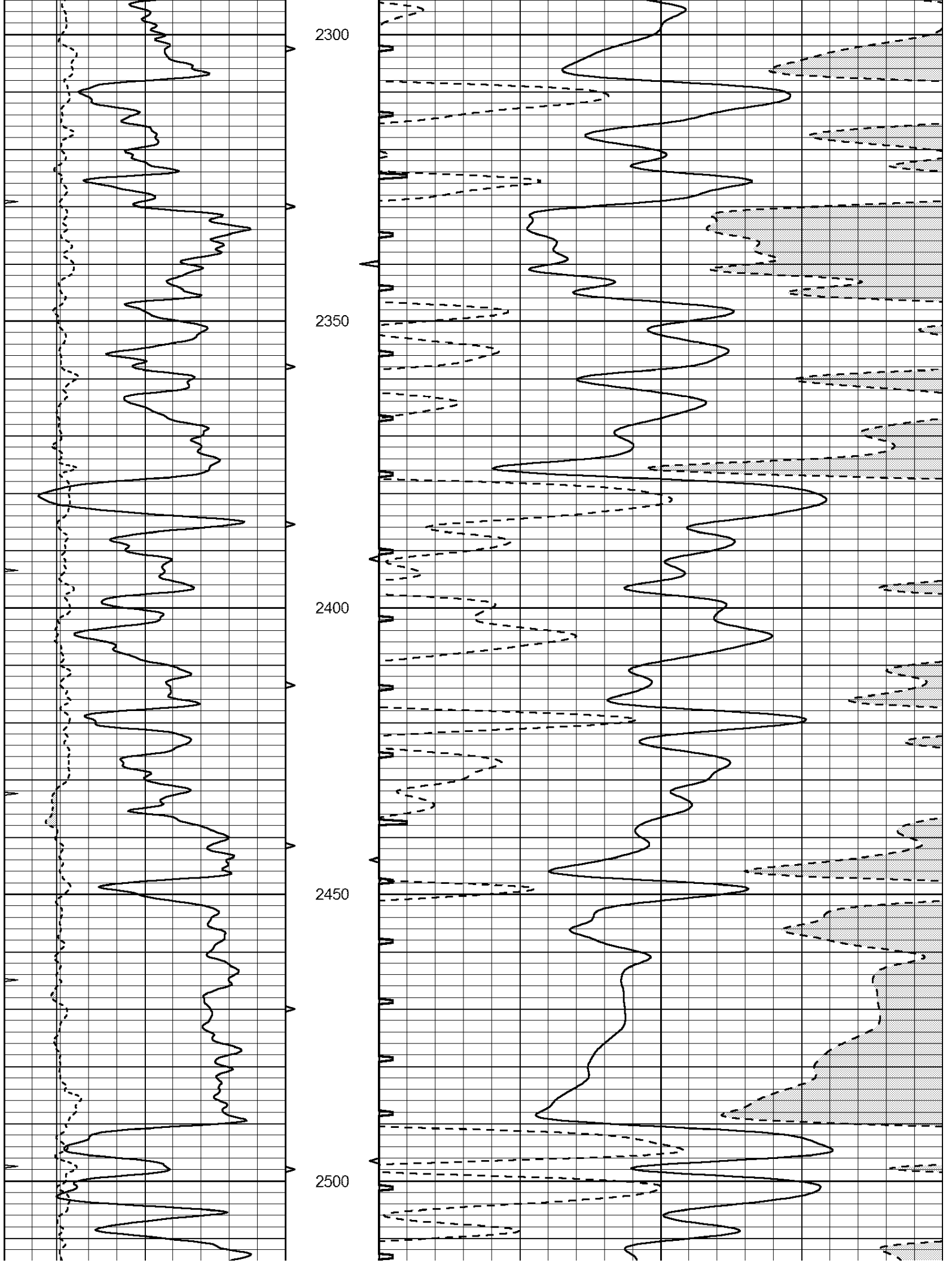
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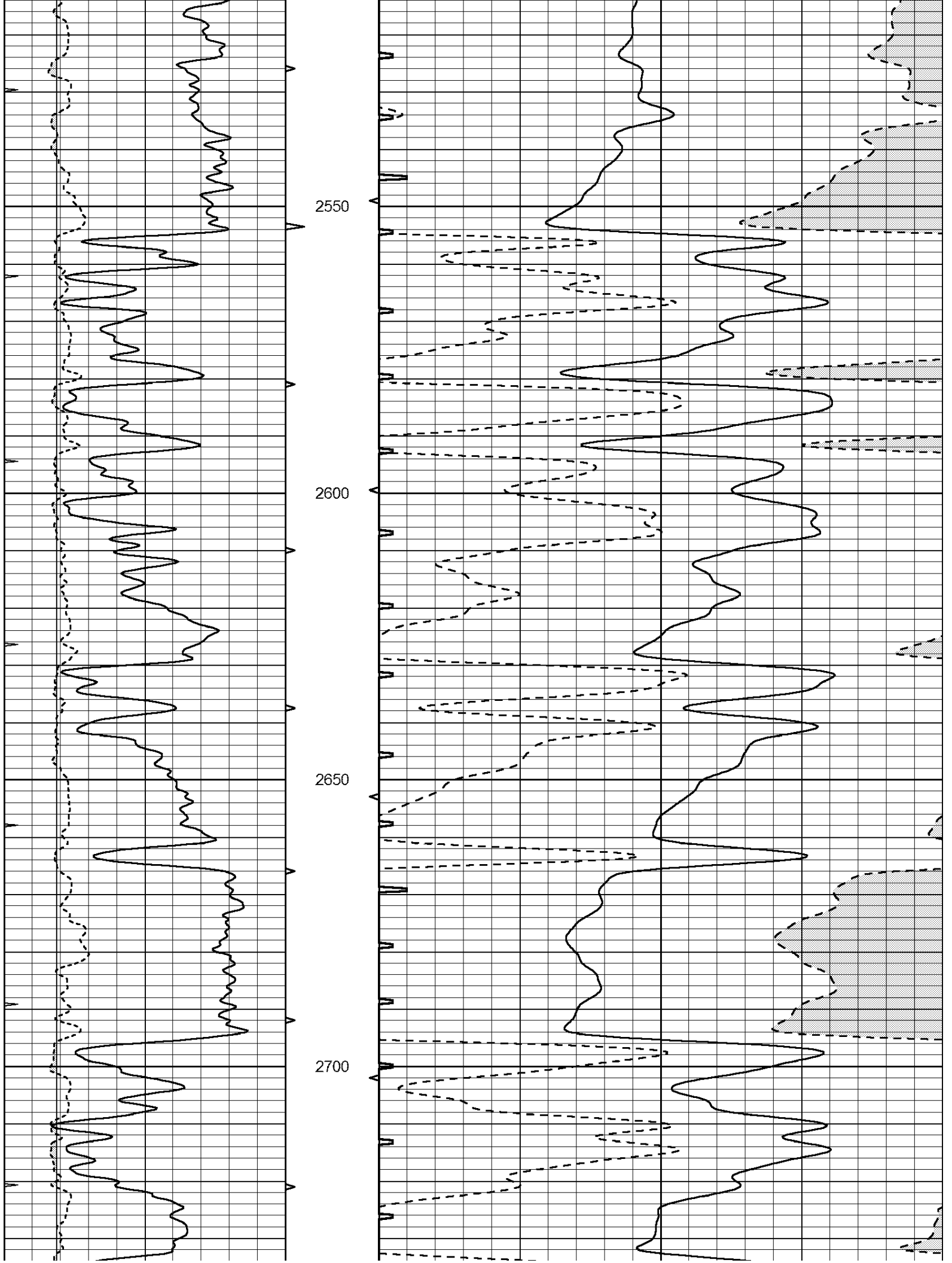
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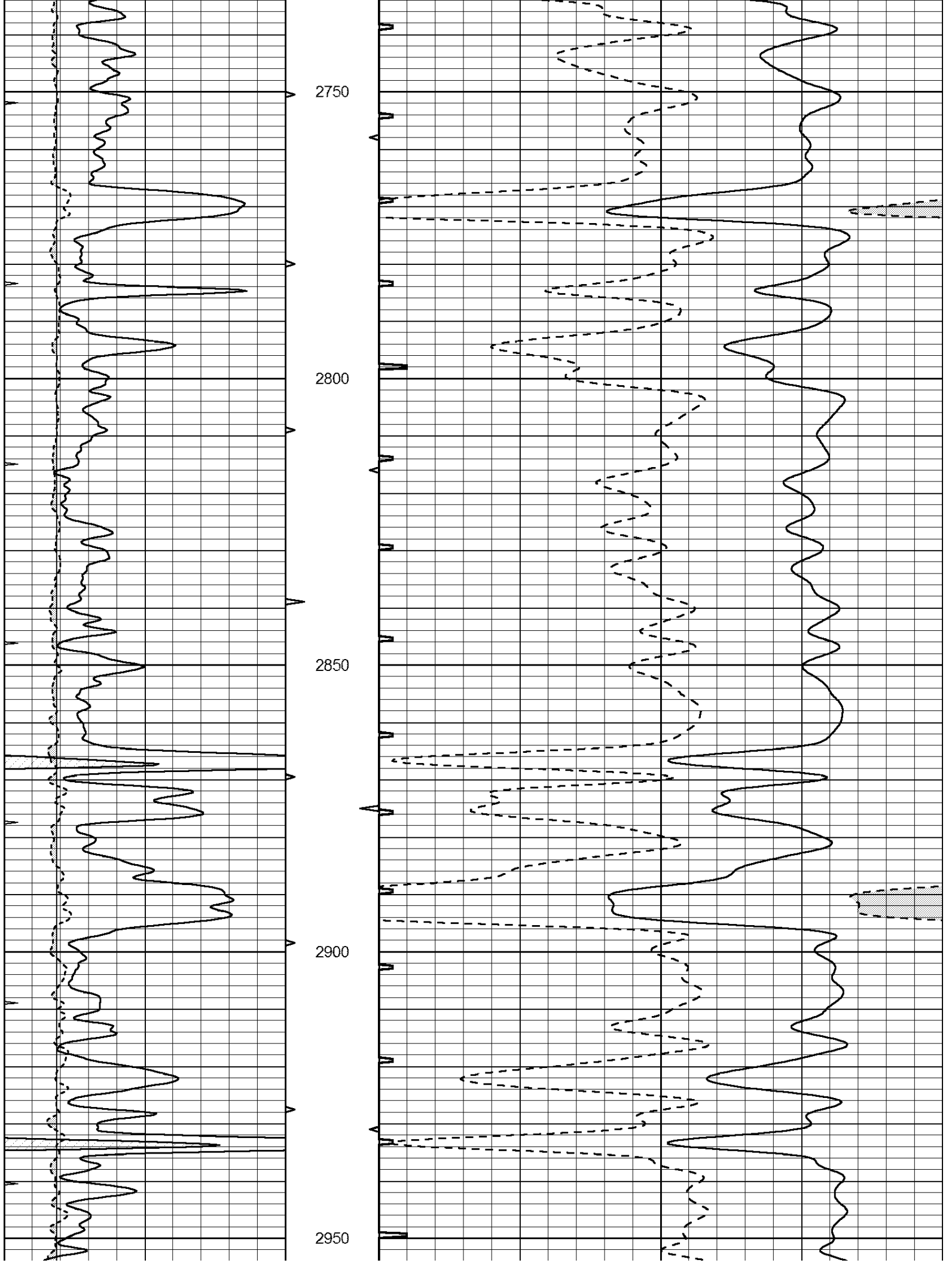
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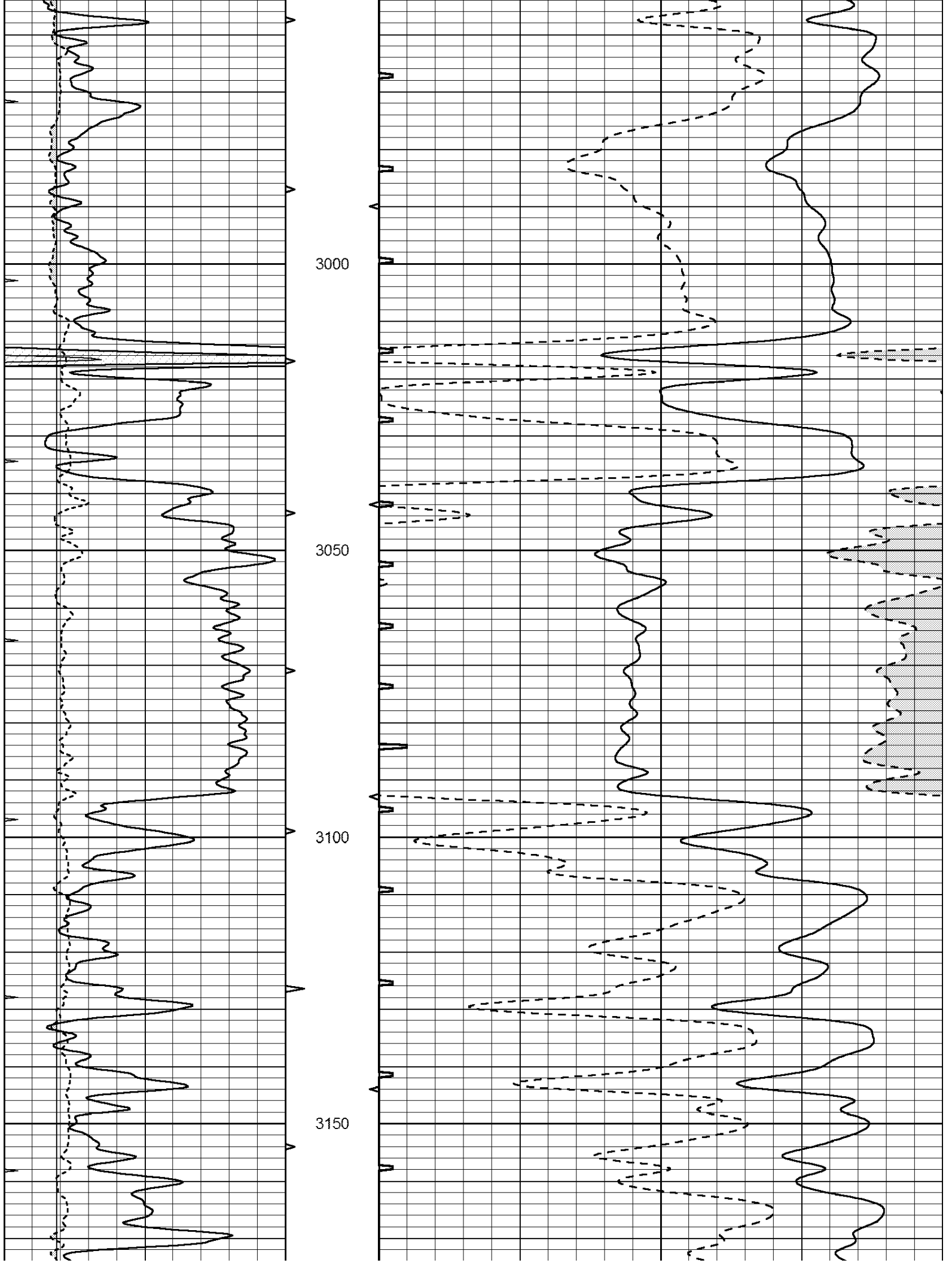
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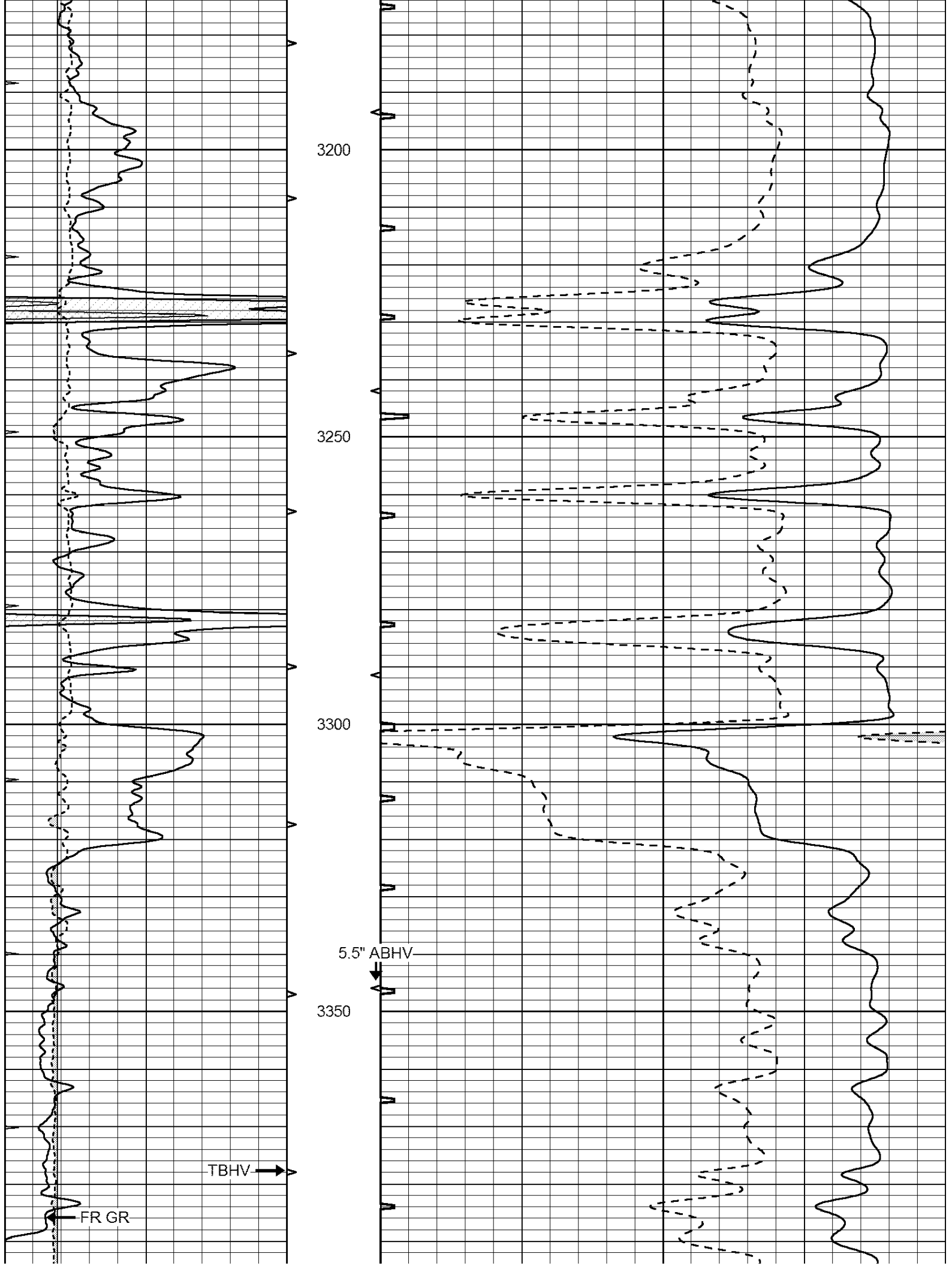


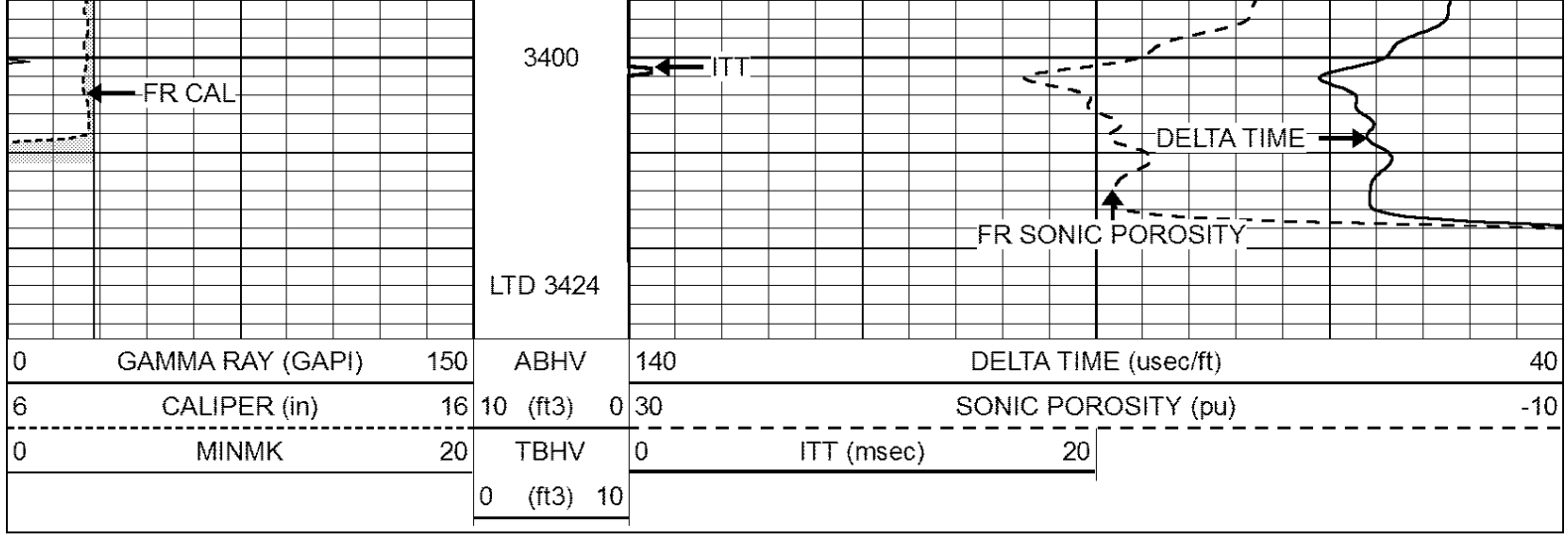










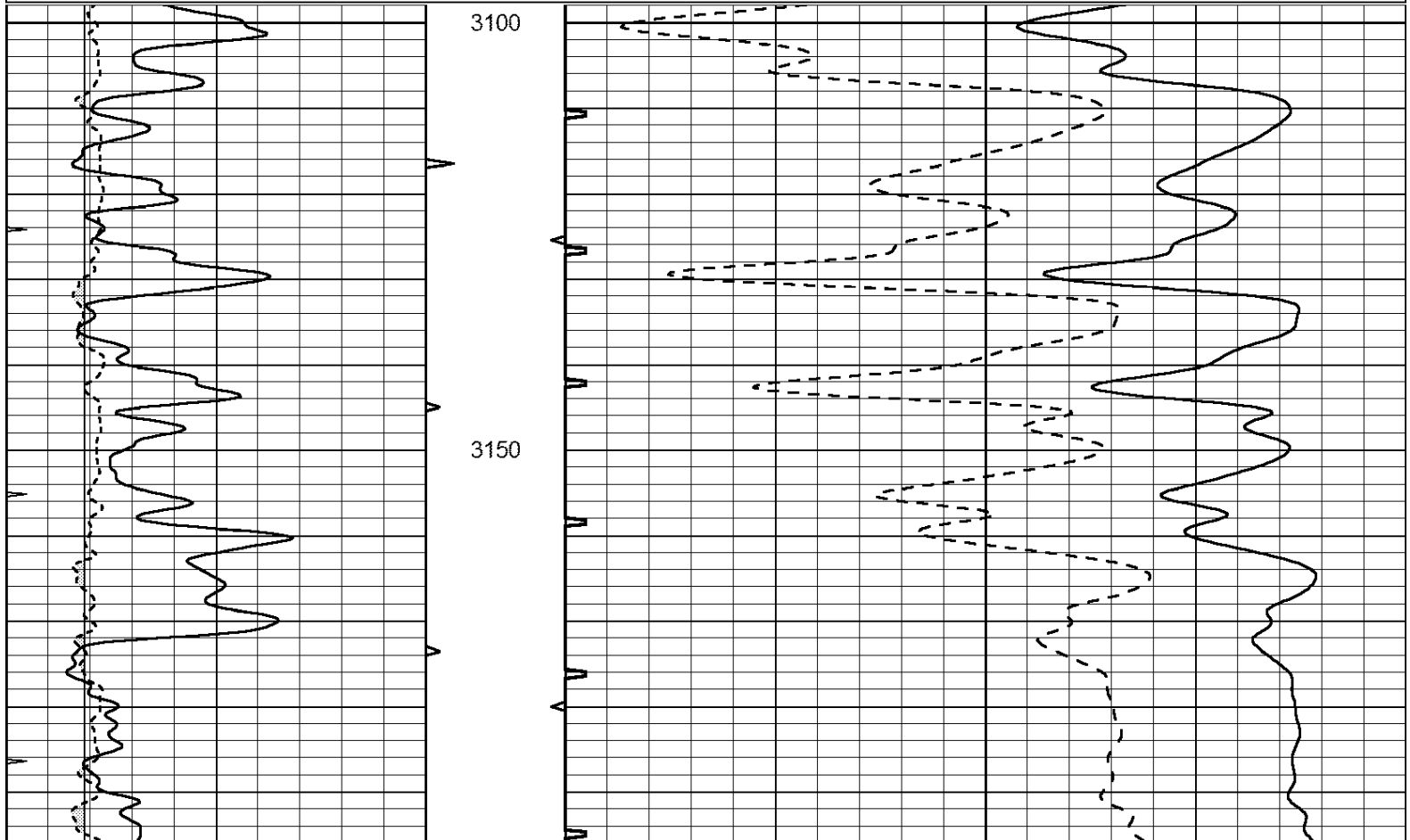


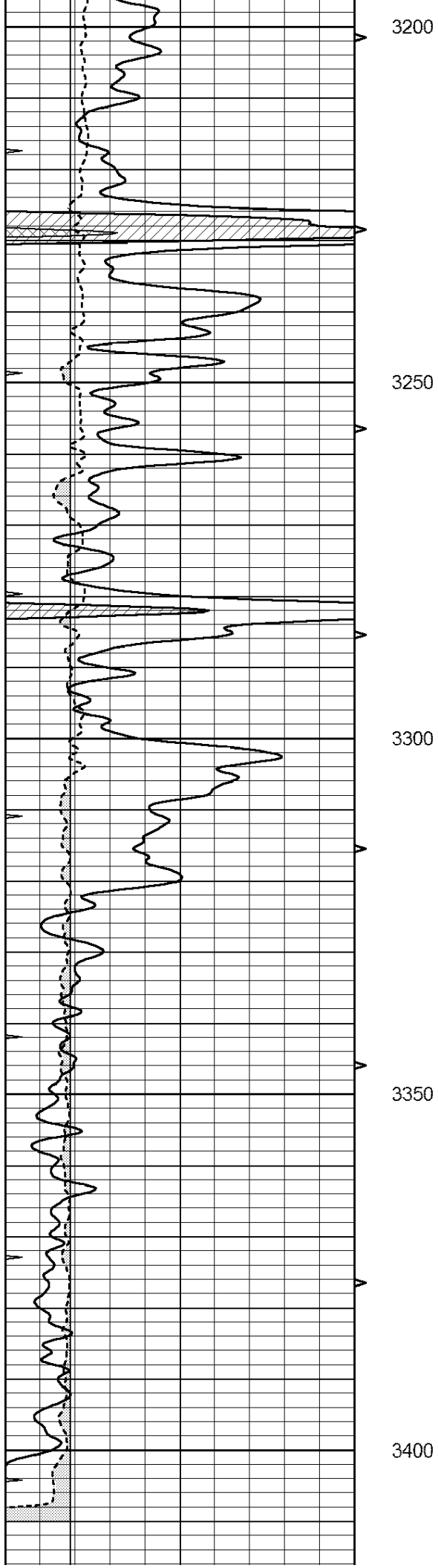
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 409429ddn.db
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 Presentation Format: sit
 Dataset Creation: Tue Jul 10 09:23:58 2012
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	CALIPER (in)	16	10 (ft3)	0 30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3)	10		





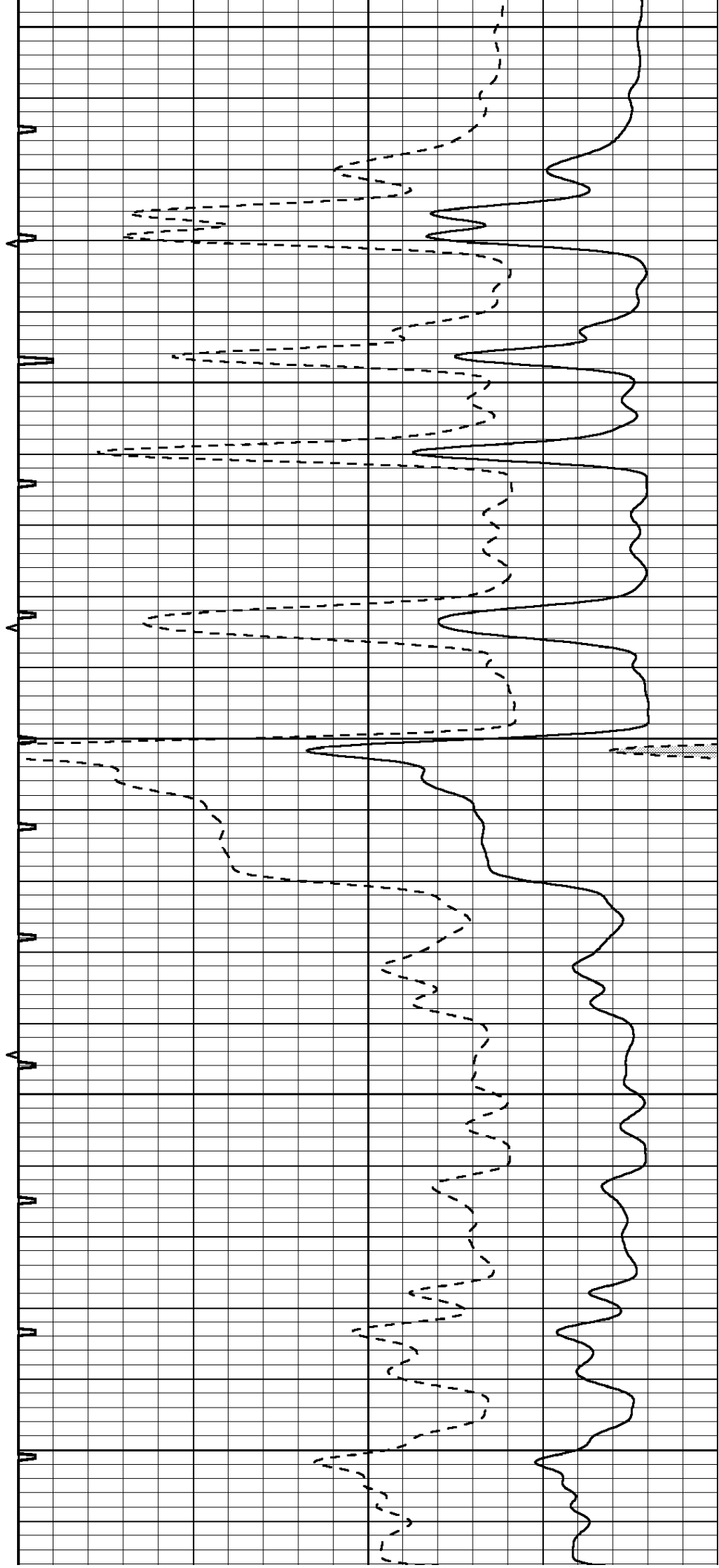
3200

3250

3300

3350

3400



0	GAMMA RAY (GAPI)		150	ABHV	140		DELTA TIME (usec/ft)				40	
6	CALIPER (in)		16	10 (ft3)	0	30		SONIC POROSITY (pu)				-10
0	MINMK		20	TBHV	0		ITT (msec)		20			
				0 (ft3)	10							



DRILL STEM TEST REPORT

Prepared For: **Caerus Kansas LLC**

1390 East 8th Street Suite B
Hays Kansas 67601

ATTN: Justin Carter

Benton 1-42

1-18s-14w-Barton

Start Date: 2012.07.06 @ 02:45:00

End Date: 2012.07.06 @ 09:12:00

Job Ticket #: 17695 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.07.06 @ 19:26:47



DRILL STEM TEST REPORT

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

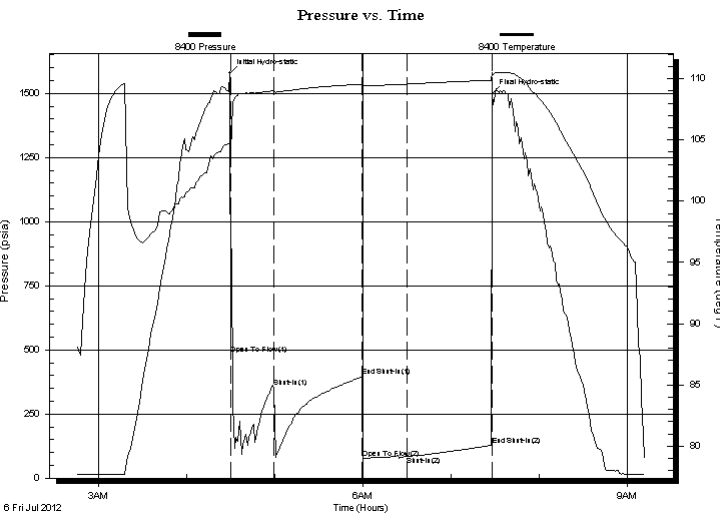
1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17695 **DST#: 1**
 Test Start: 2012.07.06 @ 02:45:00

GENERAL INFORMATION:

Formation: **Lansing A-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:30:00
 Time Test Ended: 09:12:00
 Interval: **3096.00 ft (KB) To 3168.00 ft (KB) (TVD)**
 Total Depth: 3168.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315 -Great Bend-22
 Reference Elevations: 1838.00 ft (KB)
 1828.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8400 Outside
 Press @ RunDepth: 84.99 psia @ 3165.75 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.06 End Date: 2012.07.06 Last Calib.: 2012.07.06
 Start Time: 02:45:00 End Time: 09:12:00 Time On Btm: 2012.07.06 @ 04:29:30
 Time Off Btm: 2012.07.06 @ 07:28:00

TEST COMMENT: 1st Open 30 minutes Weak building blow blew 1.5 inches
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes Very weak surface blow
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1578.86	104.78	Initial Hydro-static
1	484.35	104.26	Open To Flow (1)
30	352.80	109.02	Shut-In(1)
90	395.73	109.56	End Shut-In(1)
91	78.78	109.41	Open To Flow (2)
121	84.99	109.56	Shut-In(2)
178	127.80	109.88	End Shut-In(2)
179	1498.34	110.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	Mud 100%	0.43

Gas Rates

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



DRILL STEM TEST REPORT

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

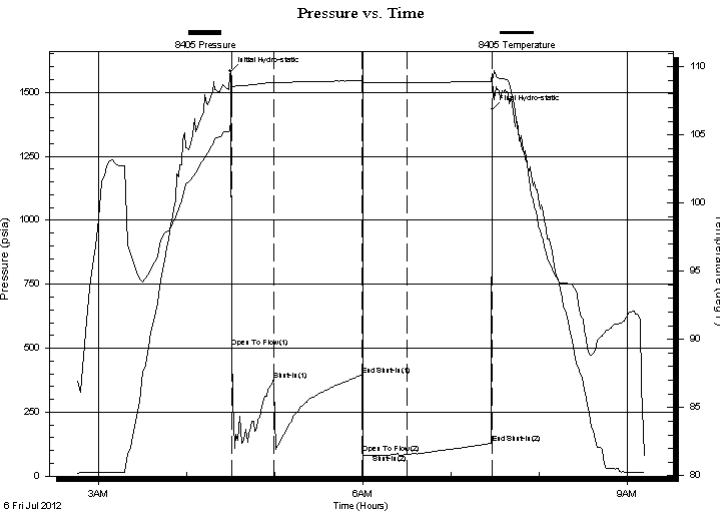
1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17695 **DST#: 1**
 Test Start: 2012.07.06 @ 02:45:00

GENERAL INFORMATION:

Formation: **Lansing A-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:30:00
 Time Test Ended: 09:12:00
 Interval: **3096.00 ft (KB) To 3168.00 ft (KB) (TVD)**
 Total Depth: 3168.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315 -Great Bend-22
 Reference Elevations: 1838.00 ft (KB)
 1828.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8405 Inside
 Press @ RunDepth: 128.34 psia @ 3164.75 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.06 End Date: 2012.07.06 Last Calib.: 2012.07.06
 Start Time: 02:45:00 End Time: 09:12:00 Time On Btm: 2012.07.06 @ 04:30:00
 Time Off Btm: 2012.07.06 @ 07:28:00

TEST COMMENT: 1st Open 30 minutes Weak building blow blew 1.5 inches
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes Very weak surface blow
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1582.46	106.02	Initial Hydro-static
1	504.41	108.43	Open To Flow (1)
29	373.80	108.87	Shut-In(1)
90	395.45	108.95	End Shut-In(1)
90	88.11	108.81	Open To Flow (2)
120	85.08	108.84	Shut-In(2)
178	128.34	108.94	End Shut-In(2)
178	1432.43	109.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	Mud 100%	0.43

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17695 **DST#: 1**
 Test Start: 2012.07.06 @ 02:45:00

Tool Information

Drill Pipe:	Length: 3086.00 ft	Diameter: 3.80 inches	Volume: 43.29 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 43.29 bbl</u>	Tool Chased 8.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3096.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.75 ft			
Tool Length:	92.75 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3081.00	
Hydraulic Tool	5.00			3086.00	
Packer	5.00			3091.00	20.00 Bottom Of Top Packer
Packer	5.00			3096.00	
Anchor	5.00			3101.00	
Change Over Sub	0.75			3101.75	
Drill Pipe	31.25			3133.00	
Change Over Sub	0.75			3133.75	
Anchor	30.00			3163.75	
Recorder	1.00	8405	Inside	3164.75	
Recorder	1.00	8400	Outside	3165.75	
Bull Plug	3.00			3168.75	72.75 Bottom Packers & Anchor

Total Tool Length: 92.75



DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Kansas LLC

1-18s-14w-Barton

1390 East 8th Street Suite B
Hays Kansas 67601

Benton 1-42

Job Ticket: 17695

DST#: 1

ATTN: Justin Carter

Test Start: 2012.07.06 @ 02:45:00

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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
31.00	Mud 100%	0.435

Total Length: 31.00 ft Total Volume: 0.435 bbl

Num Fluid Samples: 0

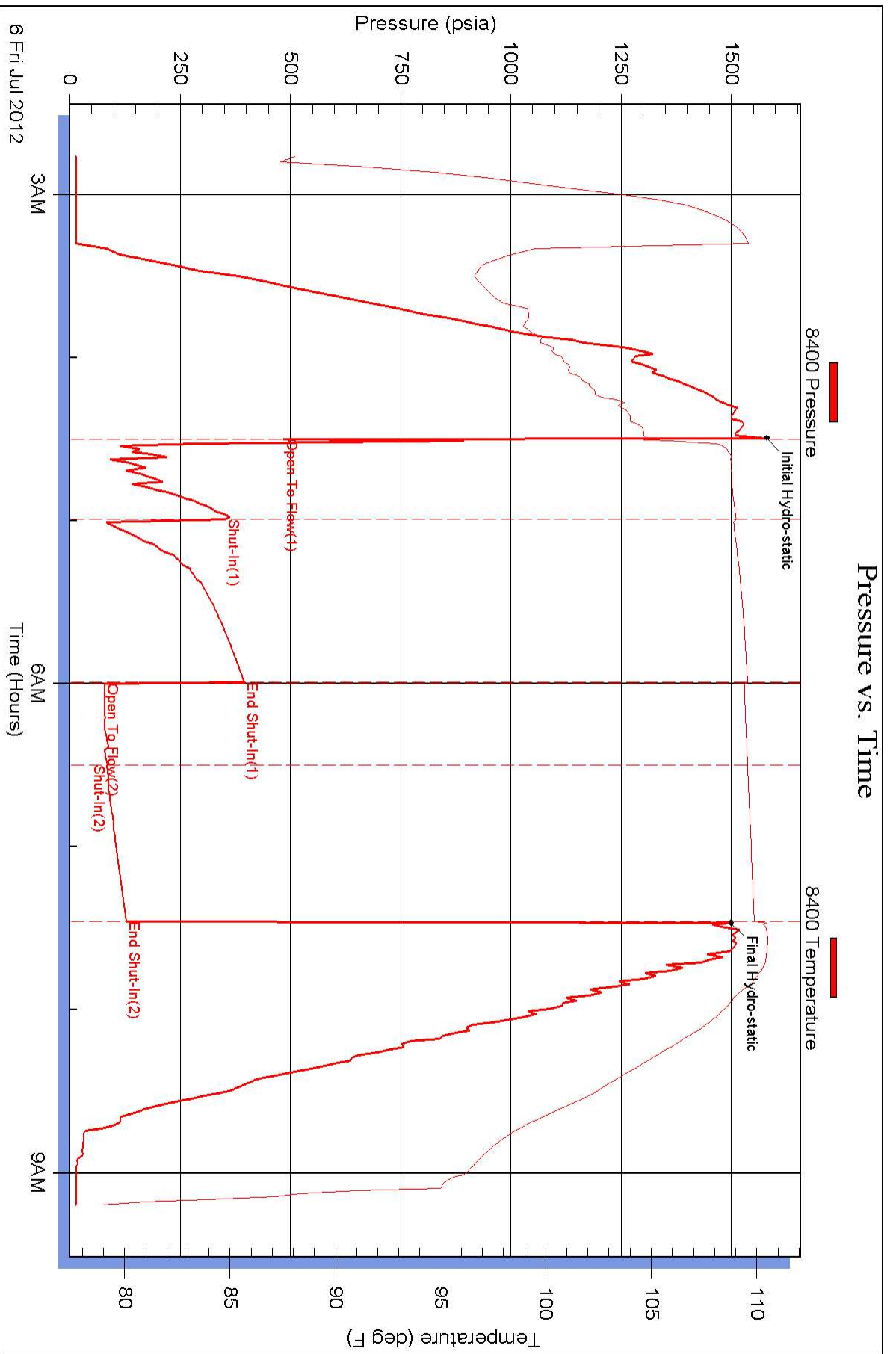
Num Gas Bombs: 0

Serial #:

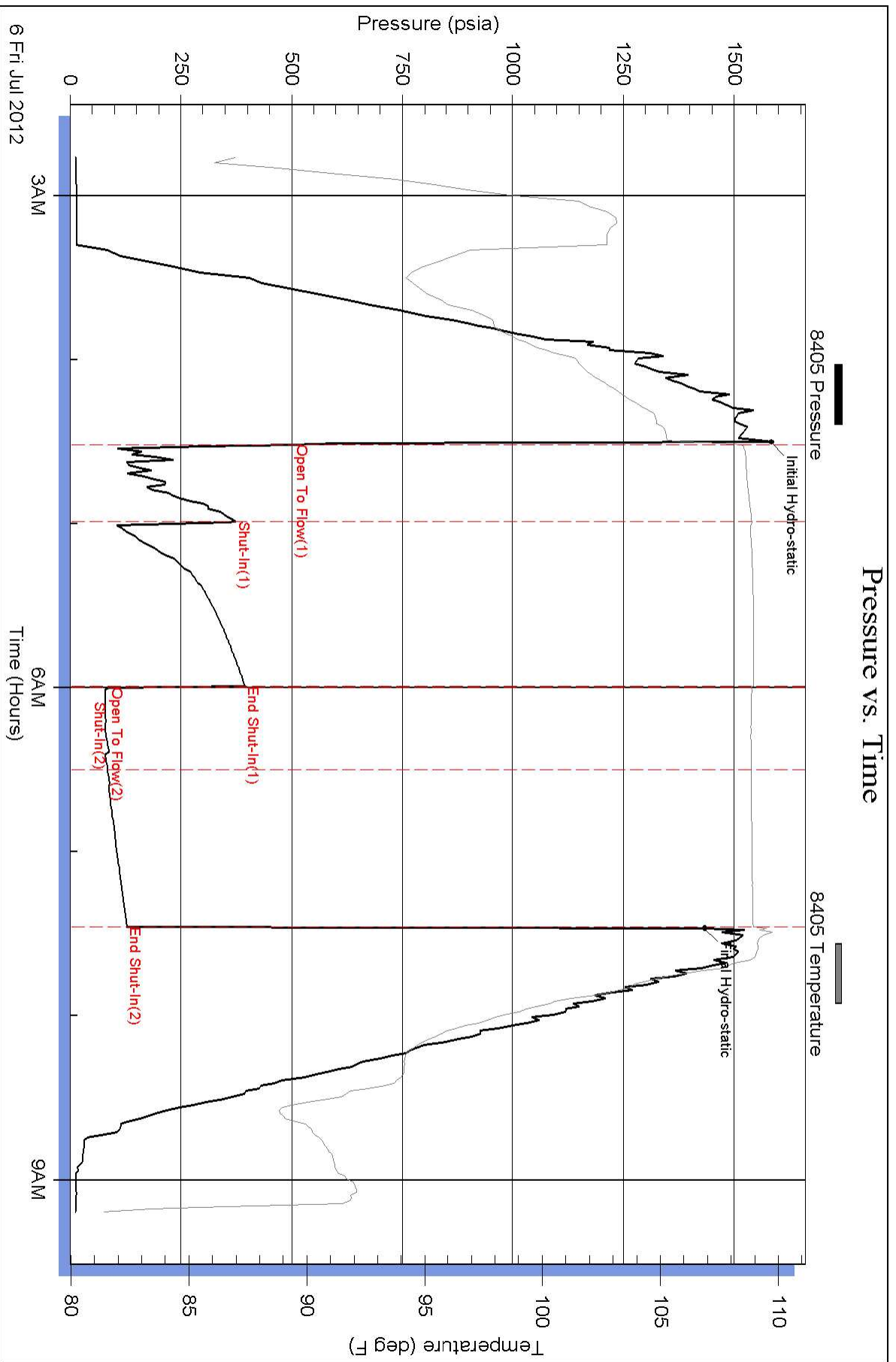
Laboratory Name:

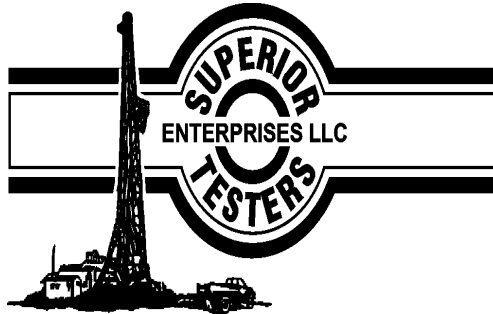
Laboratory Location:

Recovery Comments:



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Caerus Kansas LLC**

1390 East 8th Street Suite B
Hays Kansas 67601

ATTN: Justin Carter

Benton 1-42

1-18s-14w-Barton

Start Date: 2012.07.07 @ 05:52:00

End Date: 2012.07.07 @ 12:39:00

Job Ticket #: 17696 DST #: 2

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.07.07 @ 11:00:01



DRILL STEM TEST REPORT

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

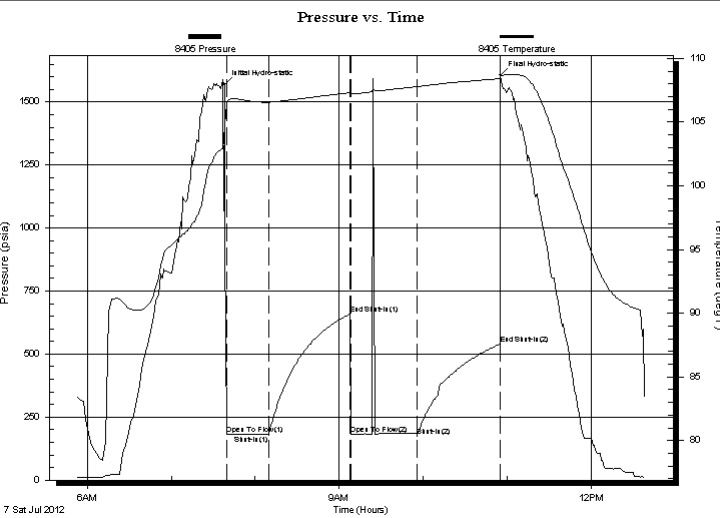
1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17696 **DST#: 2**
 Test Start: 2012.07.07 @ 05:52:00

GENERAL INFORMATION:

Formation: **Lansing G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:39:30
 Time Test Ended: 12:39:00
 Interval: **3168.00 ft (KB) To 3228.00 ft (KB) (TVD)**
 Total Depth: 3228.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-22
 Reference Elevations: 1838.00 ft (KB)
 1828.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8405 Inside
 Press @ RunDepth: 173.64 psia @ 3224.55 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.07 End Date: 2012.07.07 Last Calib.: 2012.07.07
 Start Time: 05:52:00 End Time: 12:39:00 Time On Btm: 2012.07.07 @ 07:38:00
 Time Off Btm: 2012.07.07 @ 10:55:30

TEST COMMENT: 1st Open 30 minutes No blow dead.
 1st Shut in 60 minutes No blow back
 2nd Open 45 minutes No blow dead/Flushed tool no help.
 2nd Shut in 60 minutes No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1570.32	104.84	Initial Hydro-static
2	181.05	106.42	Open To Flow (1)
32	179.11	106.56	Shut-In(1)
90	659.16	107.31	End Shut-In(1)
91	180.32	107.20	Open To Flow (2)
139	173.64	107.77	Shut-In(2)
197	539.81	108.41	End Shut-In(2)
198	1606.17	108.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
274.00	Mud 100%	3.84

Gas Rates

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



DRILL STEM TEST REPORT

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

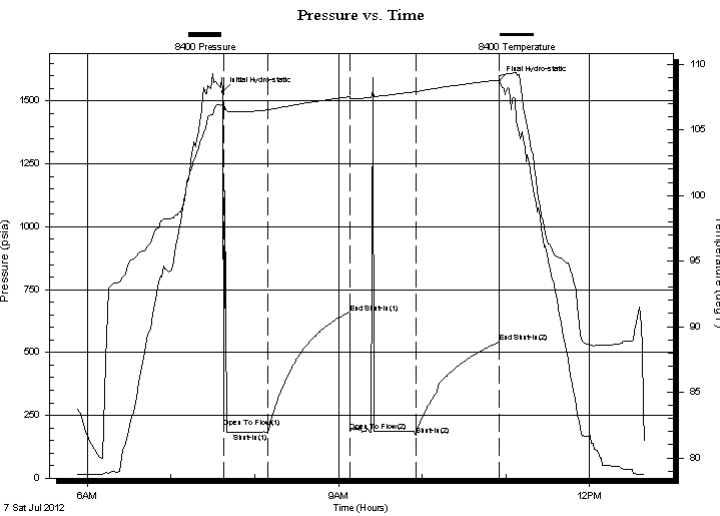
1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17696 **DST#: 2**
 Test Start: 2012.07.07 @ 05:52:00

GENERAL INFORMATION:

Formation: **Lansing G**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:39:30
 Time Test Ended: 12:39:00
 Interval: **3168.00 ft (KB) To 3228.00 ft (KB) (TVD)**
 Total Depth: 3228.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-22
 Reference Elevations: 1838.00 ft (KB)
 1828.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8400 Outside
 Press @ Run Depth: 541.22 psia @ 3225.55 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.07 End Date: 2012.07.07 Last Calib.: 2012.07.07
 Start Time: 05:52:00 End Time: 12:39:30 Time On Btm: 2012.07.07 @ 07:37:00
 Time Off Btm: 2012.07.07 @ 10:55:30

TEST COMMENT: 1st Open 30 minutes No blow dead.
 1st Shut in 60 minutes No blow back
 2nd Open 45 minutes No blow dead/Flushed tool no help.
 2nd Shut in 60 minutes No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1536.50	106.86	Initial Hydro-static
1	202.14	106.19	Open To Flow (1)
32	178.26	106.52	Shut-In(1)
91	658.19	107.53	End Shut-In(1)
92	186.49	107.34	Open To Flow (2)
139	172.00	107.90	Shut-In(2)
198	541.22	108.80	End Shut-In(2)
199	1580.51	109.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
274.00	Mud 100%	3.84

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17696 **DST#: 2**
 Test Start: 2012.07.07 @ 05:52:00

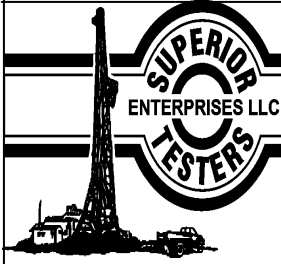
Tool Information

Drill Pipe:	Length: 3178.00 ft	Diameter: 3.80 inches	Volume: 44.58 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 44.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3168.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.55 ft			
Tool Length:	80.55 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3153.00	
Hydraulic Tool	5.00			3158.00	
Packer	5.00			3163.00	20.00 Bottom Of Top Packer
Packer	5.00			3168.00	
Anchor	5.00			3173.00	
Change Over Sub	0.75			3173.75	
Drill Pipe	31.05			3204.80	
Change Over Sub	0.75			3205.55	
Anchor	18.00			3223.55	
Recorder	1.00	8405	Inside	3224.55	
Recorder	1.00	8400	Outside	3225.55	
Bull Plug	3.00			3228.55	60.55 Bottom Packers & Anchor

Total Tool Length: 80.55



DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Kansas LLC

1-18s-14w-Barton

1390 East 8th Street Suite B
Hays Kansas 67601

Benton 1-42

Job Ticket: 17696

DST#: 2

ATTN: Justin Carter

Test Start: 2012.07.07 @ 05:52:00

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: 54.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
274.00	Mud 100%	3.843

Total Length: 274.00 ft Total Volume: 3.843 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

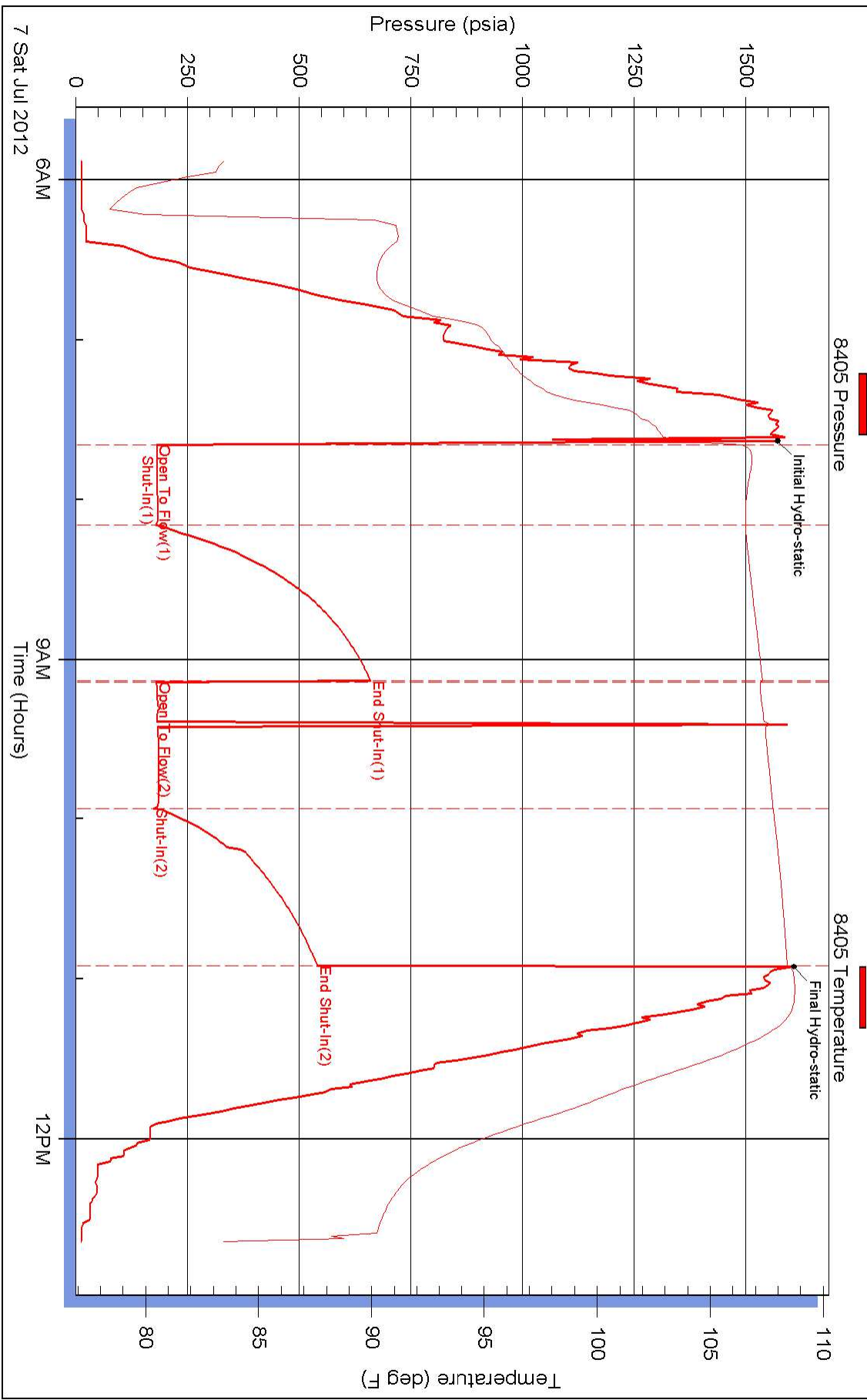
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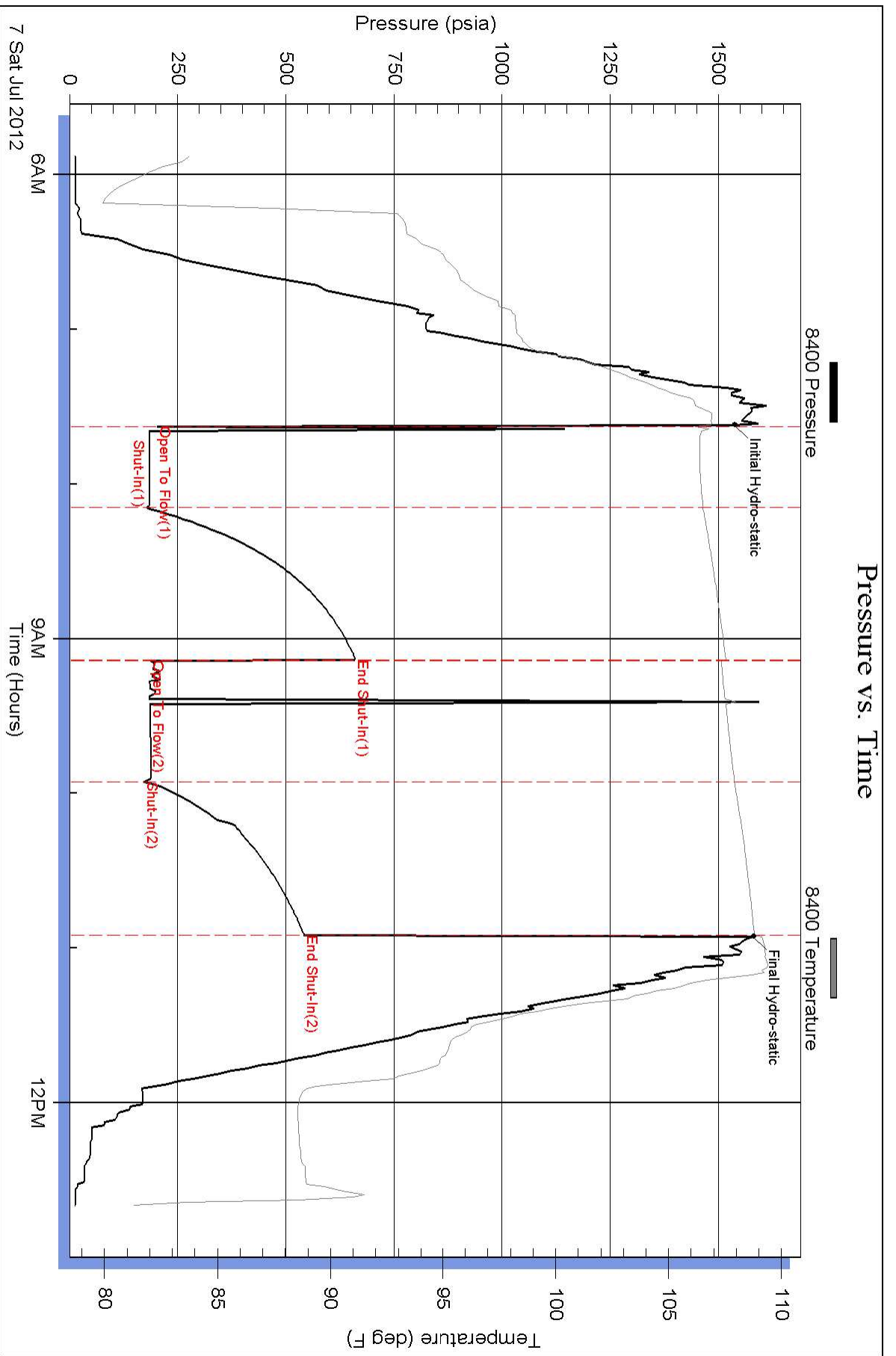
Laboratory Name:

Laboratory Location:

Recovery Comments: packer failure picked up reset held.

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Caerus Kansas LLC**

1390 East 8th Street Suite B
Hays Kansas 67601

ATTN: Justin Carter

Benton 1-42

1-18s-14w-Barton

Start Date: 2012.07.08 @ 10:22:00

End Date: 2012.07.08 @ 16:52:00

Job Ticket #: 17697 DST #: 3

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.07.08 @ 03:16:29



DRILL STEM TEST REPORT

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17697 **DST#: 3**
 Test Start: 2012.07.08 @ 10:22:00

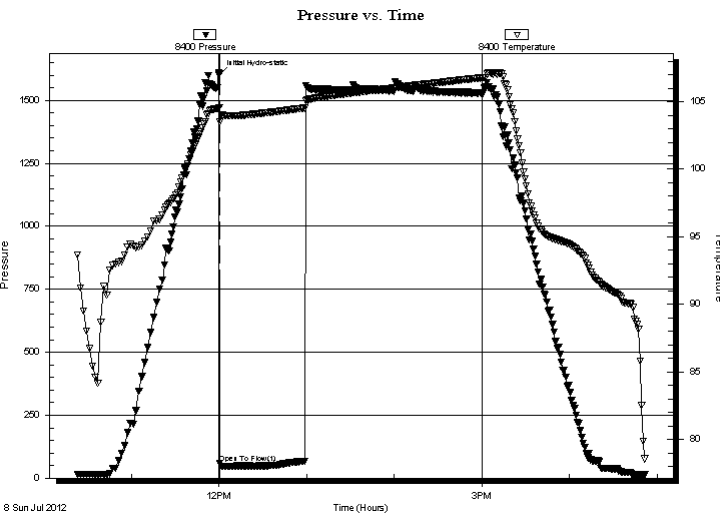
GENERAL INFORMATION:

Formation: **Lansing H-I**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 12:00:30
 Tester: Dustin Ellis
 Time Test Ended: 16:52:00
 Unit No: 3315-Great Bend-22
Interval: 3225.00 ft (KB) To 3263.00 ft (KB) (TVD)
 Reference Elevations: 1838.00 ft (KB)
 Total Depth: 3263.00 ft (KB) (TVD) 1828.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8400

Press @ RunDepth: psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.08 End Date: 2012.07.08 Last Calib.: 2012.07.08
 Start Time: 10:22:00 End Time: 16:52:00 Time On Btm: 2012.07.08 @ 12:00:00
 Time Off Btm:

TEST COMMENT: 1st Open 30 minutes Weak blow blew 1 inch.
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes No blow Dead
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

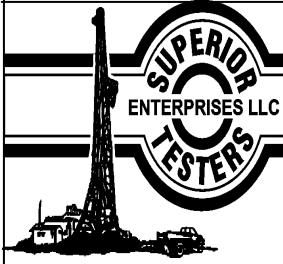
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1603.63	104.54	Initial Hydro-static
1	58.65	103.48	Open To Flow (1)

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Oil cut mud 5% Oil 95% Mud	0.42

Gas Rates

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



DRILL STEM TEST REPORT

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17697 **DST#: 3**
 Test Start: 2012.07.08 @ 10:22:00

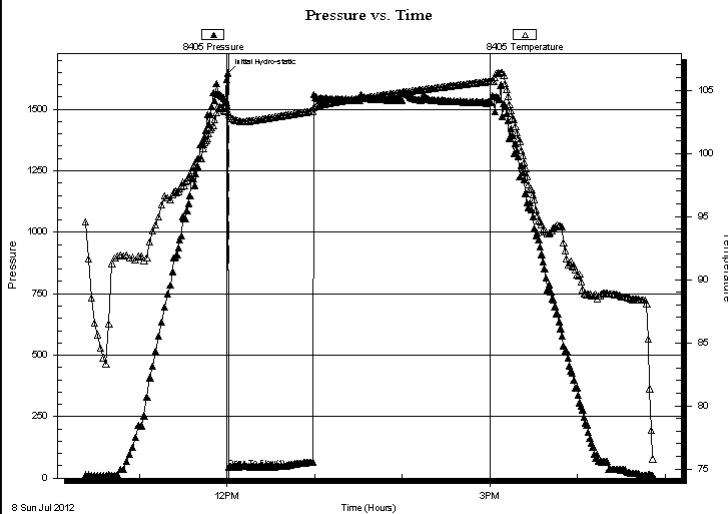
GENERAL INFORMATION:

Formation: **Lansing H-I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:00:30
 Time Test Ended: 16:52:00
 Interval: **3225.00 ft (KB) To 3263.00 ft (KB) (TVD)**
 Total Depth: 3263.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-22
 Reference Elevations: 1838.00 ft (KB)
 1828.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8405

Press @ RunDepth: psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.08 End Date: 2012.07.08 Last Calib.: 2012.07.08
 Start Time: 10:22:00 End Time: 16:52:00 Time On Btm: 2012.07.08 @ 12:00:30
 Time Off Btm:

TEST COMMENT: 1st Open 30 minutes Weak blow blew 1 inch.
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes No blow Dead
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1646.92	103.68	Initial Hydro-static
1	45.44	103.22	Open To Flow (1)

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Oil cut mud 5% Oil 95% Mud	0.42

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17697 **DST#: 3**
 Test Start: 2012.07.08 @ 10:22:00

Tool Information

Drill Pipe:	Length: 3202.00 ft	Diameter: 3.80 inches	Volume: 44.92 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 44.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3225.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3202.00	
Hydraulic Tool	5.00			3207.00	
Jars	6.00			3213.00	
Safety Joint	2.00			3215.00	
Packer	5.00			3220.00	28.00 Bottom Of Top Packer
Packer	5.00			3225.00	
Anchor	33.00			3258.00	
Recorder	1.00	8405	Inside	3259.00	
Recorder	1.00	8400	Outside	3260.00	
Bull Plug	3.00			3263.00	38.00 Bottom Packers & Anchor
Total Tool Length:	66.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Kansas LLC

1-18s-14w-Barton

1390 East 8th Street Suite B
Hays Kansas 67601

Benton 1-42

Job Ticket: 17697

DST#: 3

ATTN: Justin Carter

Test Start: 2012.07.08 @ 10:22:00

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: 54.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Oil cut mud 5%Oil 95%Mud	0.421

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

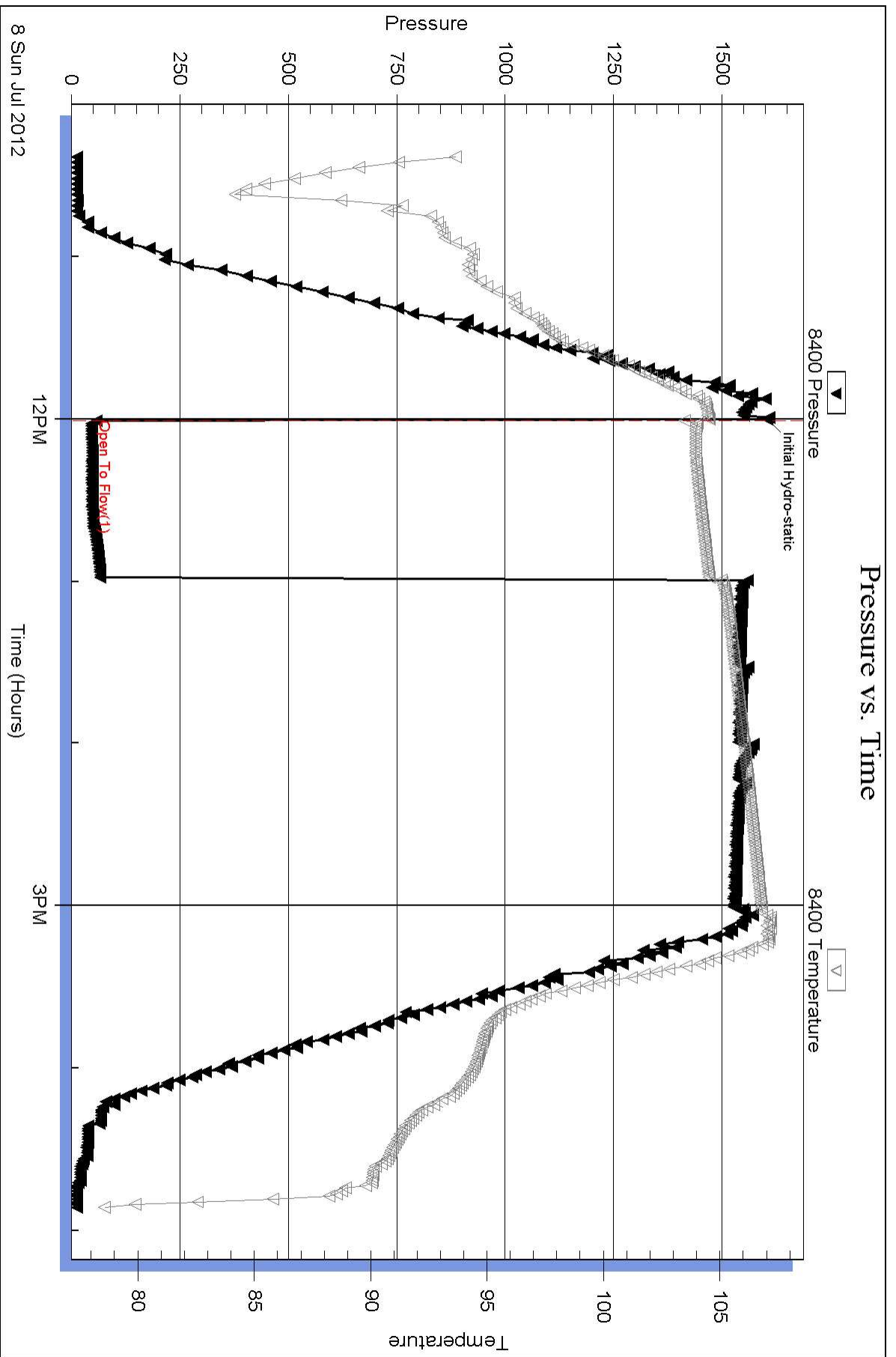
Num Gas Bombs: 0

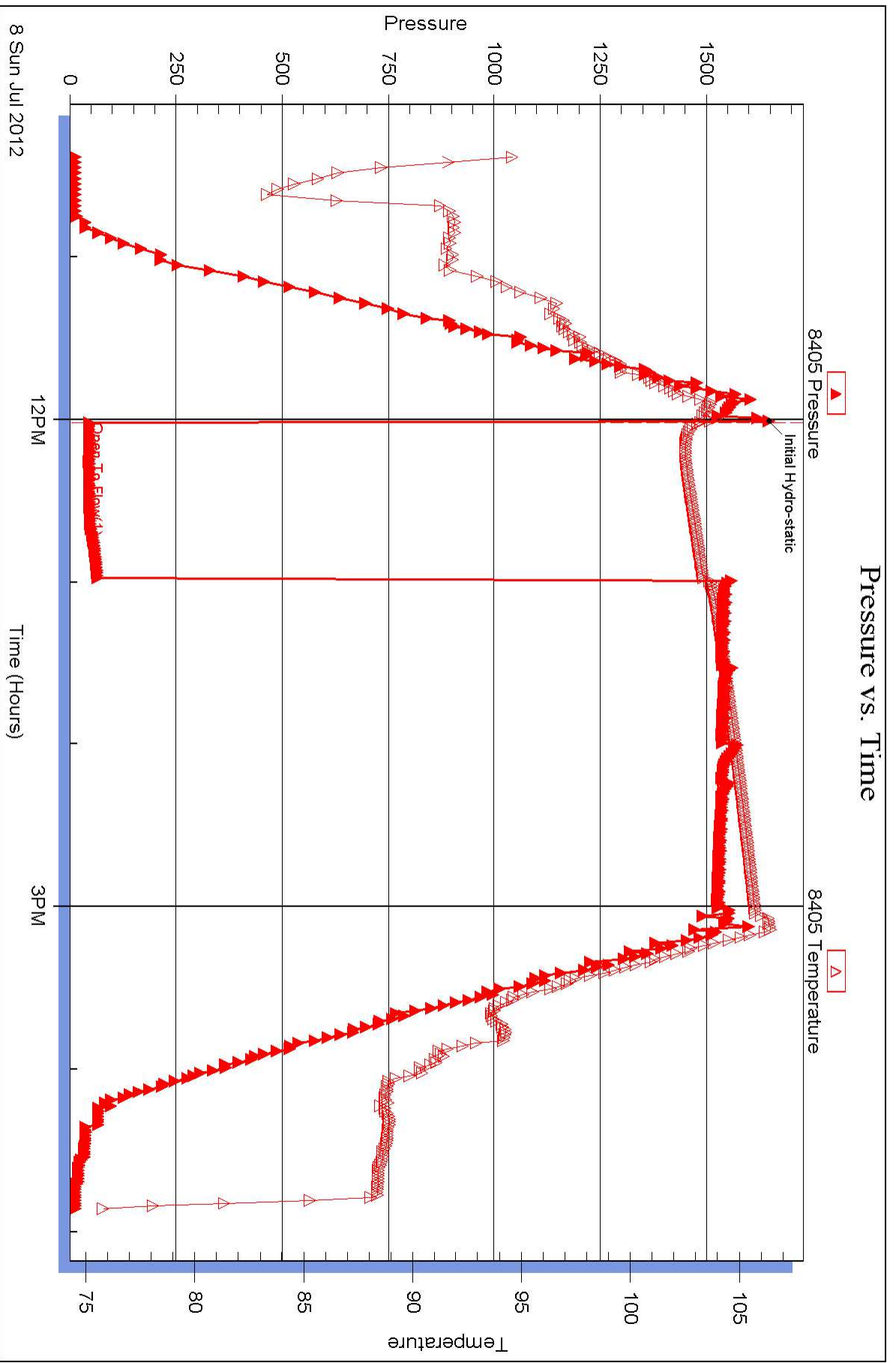
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Caerus Kansas LLC**

1390 East 8th Street Suite B
Hays Kansas 67601

ATTN: Justin Carter

Benton 1-42

1-18s-14w-Barton

Start Date: 2012.07.08 @ 05:37:00

End Date: 2012.07.08 @ 11:46:00

Job Ticket #: 17698 DST #: 4

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.07.08 @ 09:58:50



DRILL STEM TEST REPORT

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17698 **DST#: 4**
 Test Start: 2012.07.08 @ 05:37:00

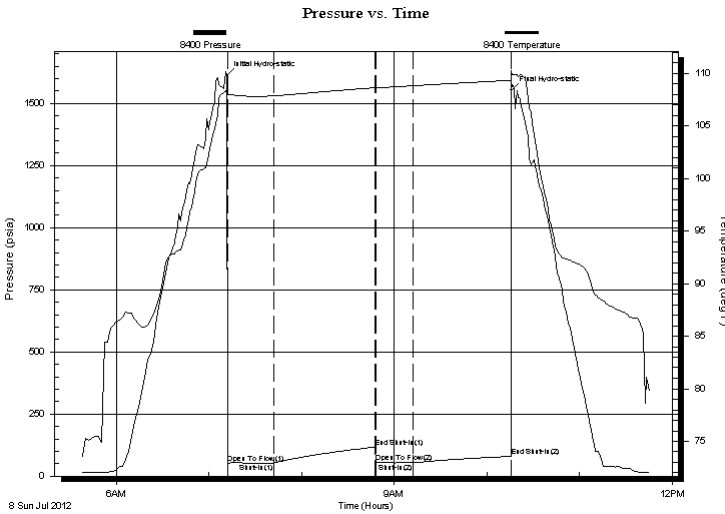
GENERAL INFORMATION:

Formation: **Lansing H-I**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 07:12:00 Tester: Dustin Ellis
 Time Test Ended: 11:46:00 Unit No: 3315-Great Bend-22
 Interval: **3224.00 ft (KB) To 3263.00 ft (KB) (TVD)** Reference Elevations: 1838.00 ft (KB)
 Total Depth: 3263.00 ft (KB) (TVD) 1828.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8400 Outside
 Press @ Run Depth: 52.88 psia @ 3260.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.08 End Date: 2012.07.08 Last Calib.: 2012.07.08
 Start Time: 05:37:00 End Time: 11:46:00 Time On Btm: 2012.07.08 @ 07:11:30
 Time Off Btm: 2012.07.08 @ 10:16:00

TEST COMMENT: 1st Open 30 minutes Weakblow 1 inch blow .
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes Very weak surface blow .
 2nd Shut in 60 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1613.34	108.48	Initial Hydro-static
1	53.04	107.98	Open To Flow (1)
31	53.05	107.86	Shut-In(1)
96	117.15	108.63	End Shut-In(1)
97	56.84	108.59	Open To Flow (2)
121	52.88	108.82	Shut-In(2)
184	79.66	109.33	End Shut-In(2)
185	1553.80	110.28	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
25.00	Oil cut mud 10%OIL 90%MUD	0.35

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



DRILL STEM TEST REPORT

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17698 **DST#: 4**
 Test Start: 2012.07.08 @ 05:37:00

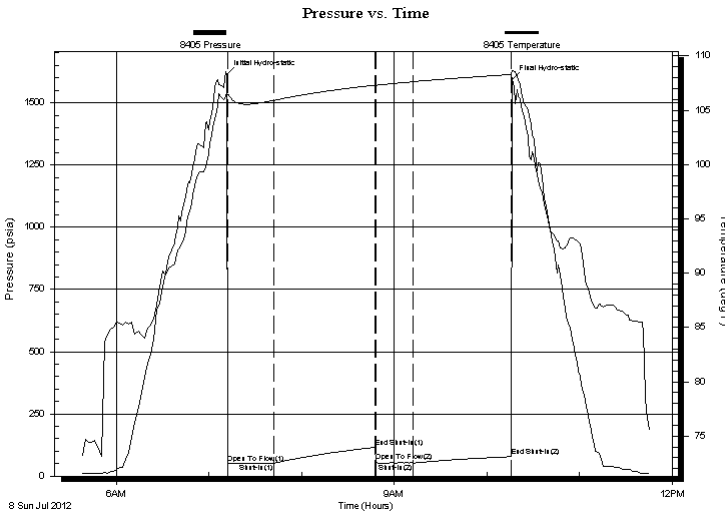
GENERAL INFORMATION:

Formation: **Lansing H-I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:12:00
 Time Test Ended: 11:46:00
 Interval: **3224.00 ft (KB) To 3263.00 ft (KB) (TVD)**
 Total Depth: 3263.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-22
 Reference Elevations: 1838.00 ft (KB)
 1828.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8405 Inside
 Press @ RunDepth: 78.47 psia @ 3259.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.08 End Date: 2012.07.08 Last Calib.: 2012.07.08
 Start Time: 05:37:00 End Time: 11:46:00 Time On Btm: 2012.07.08 @ 07:11:30
 Time Off Btm: 2012.07.08 @ 10:16:30

TEST COMMENT: 1st Open 30 minutes Weakblow 1 inch blow .
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes Very weak surface blow .
 2nd Shut in 60 minutes No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1612.78	106.65	Initial Hydro-static
1	51.70	106.39	Open To Flow (1)
31	51.45	105.91	Shut-In(1)
96	115.85	107.31	End Shut-In(1)
97	57.65	107.30	Open To Flow (2)
121	51.21	107.63	Shut-In(2)
185	78.47	108.28	End Shut-In(2)
185	1594.82	108.67	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
25.00	Oil cut mud 10%OIL 90%MUD	0.35

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

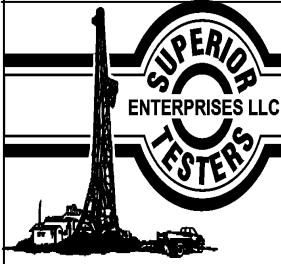
1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17698 **DST#: 4**
 Test Start: 2012.07.08 @ 05:37:00

Tool Information

Drill Pipe:	Length: 3202.00 ft	Diameter: 3.80 inches	Volume: 44.92 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 44.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3224.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3201.00	
Hydraulic Tool	5.00			3206.00	
Jars	6.00			3212.00	
Safety Joint	2.00			3214.00	
Packer	5.00			3219.00	28.00 Bottom Of Top Packer
Packer	5.00			3224.00	
Anchor	34.00			3258.00	
Recorder	1.00	8405	Inside	3259.00	
Recorder	1.00	8400	Outside	3260.00	
Bull Plug	3.00			3263.00	39.00 Bottom Packers & Anchor
Total Tool Length:	67.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Kansas LLC

1-18s-14w-Barton

1390 East 8th Street Suite B
Hays Kansas 67601

Benton 1-42

Job Ticket: 17698

DST#: 4

ATTN: Justin Carter

Test Start: 2012.07.08 @ 05:37:00

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: 54.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Oil cut mud 10%OIL 90%MUD	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

Num Fluid Samples: 0

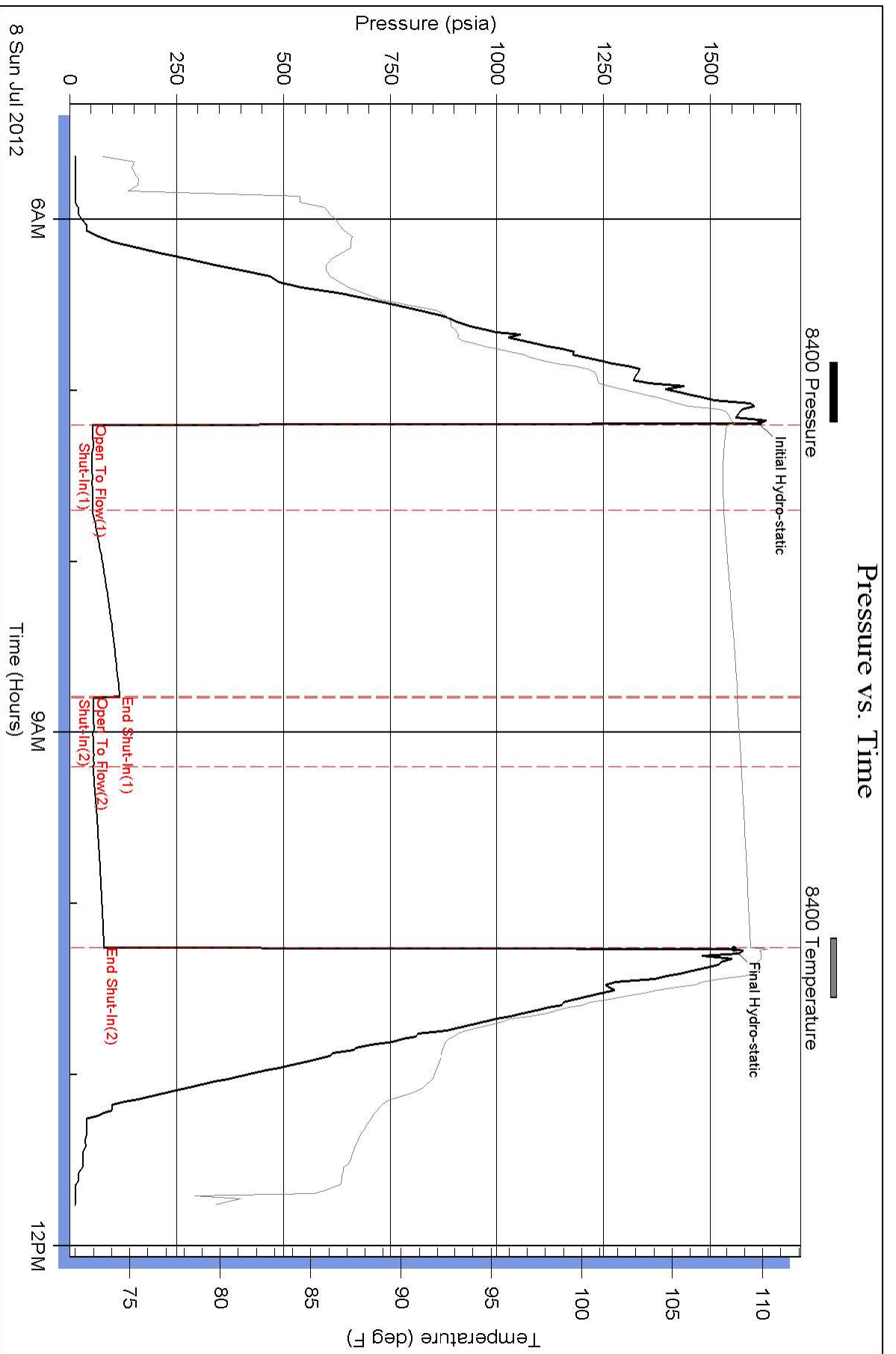
Num Gas Bombs: 0

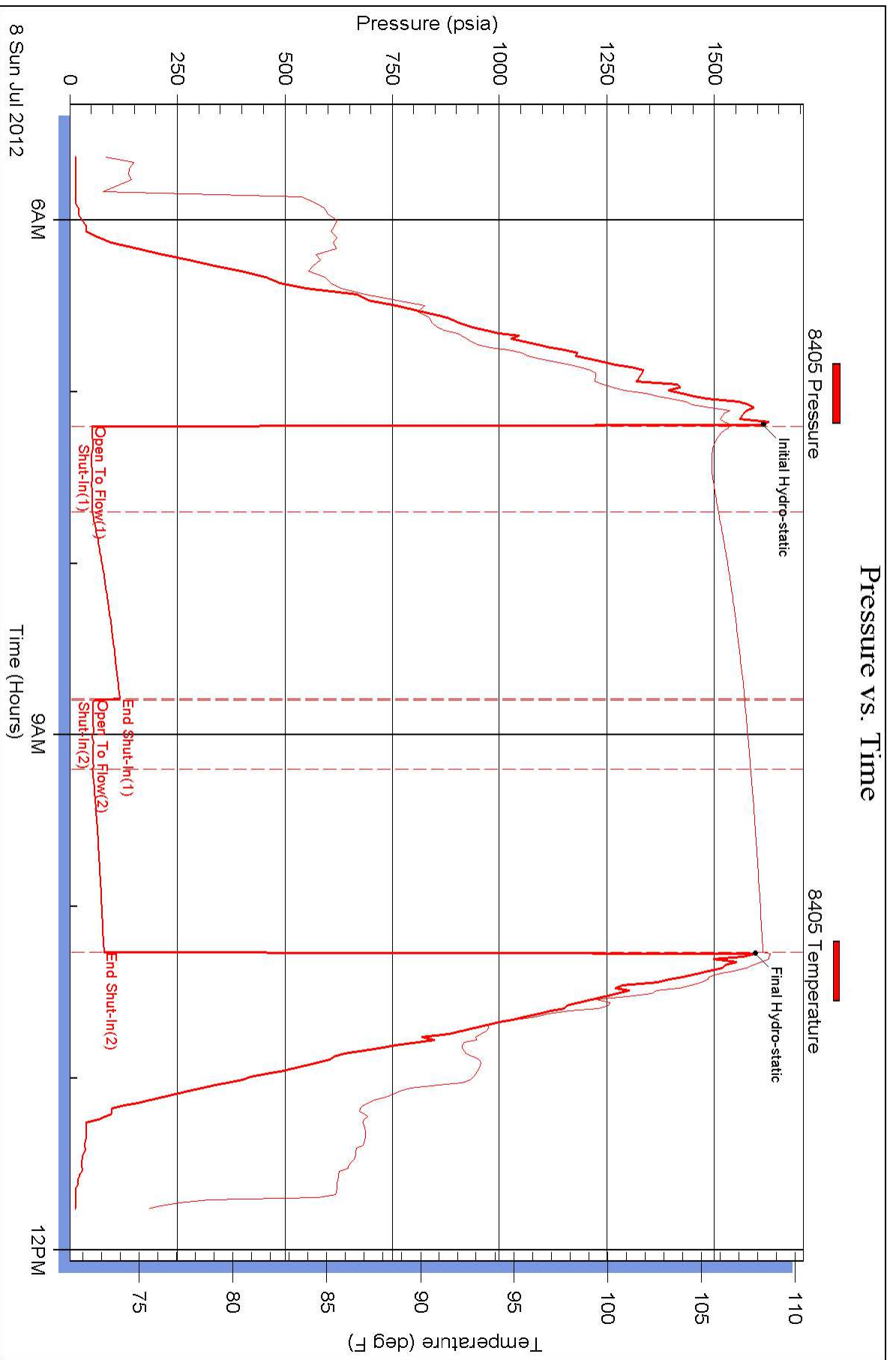
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Caerus Kansas LLC**

1390 East 8th Street Suite B
Hays Kansas 67601

ATTN: Justin Carter

Benton 1-42

1-18s-14w-Barton

Start Date: 2012.07.09 @ 12:31:00

End Date: 2012.07.09 @ 18:55:00

Job Ticket #: 17699 DST #: 5

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.07.09 @ 05:11:51



DRILL STEM TEST REPORT

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

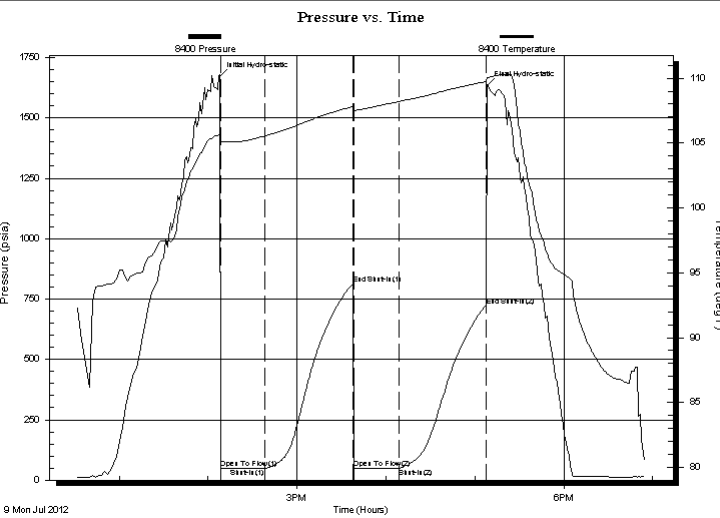
1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17699 **DST#: 5**
 Test Start: 2012.07.09 @ 12:31:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:08:30
 Time Test Ended: 18:55:00
 Interval: **3298.00 ft (KB) To 3338.00 ft (KB) (TVD)**
 Total Depth: 3338.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-22
 Reference Elevations: 1838.00 ft (KB)
 1828.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8400 Outside
 Press @ RunDepth: 49.58 psia @ 3335.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.09 End Date: 2012.07.09 Last Calib.: 2012.07.09
 Start Time: 12:31:00 End Time: 18:55:00 Time On Btm: 2012.07.09 @ 14:08:00
 Time Off Btm: 2012.07.09 @ 17:08:30

TEST COMMENT: 1st Open 30 minutes Weak surface blow
 1st Shut in 60 No blow back
 2nd Open 30 minutes No blow dead
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1673.20	105.67	Initial Hydro-static
1	48.69	105.14	Open To Flow (1)
31	47.87	105.55	Shut-In(1)
90	813.40	107.81	End Shut-In(1)
91	48.63	107.53	Open To Flow (2)
121	49.58	108.20	Shut-In(2)
180	723.02	109.73	End Shut-In(2)
181	1633.57	110.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil cut mud 1% Oil 99% Mud	0.07
1.00	Clean oil 100%	0.01

Gas Rates

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



DRILL STEM TEST REPORT

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

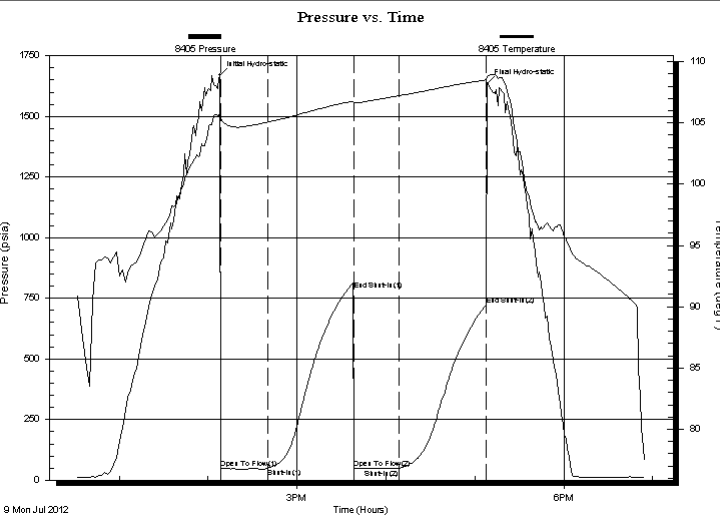
1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17699 **DST#: 5**
 Test Start: 2012.07.09 @ 12:31:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:08:30
 Time Test Ended: 18:55:00
 Interval: **3298.00 ft (KB) To 3338.00 ft (KB) (TVD)**
 Total Depth: 3338.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-22
 Reference Elevations: 1838.00 ft (KB)
 1828.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8405 Inside
 Press @ Run Depth: 721.96 psia @ 3334.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.09 End Date: 2012.07.09 Last Calib.: 2012.07.09
 Start Time: 12:31:00 End Time: 18:55:00 Time On Btm: 2012.07.09 @ 14:08:00
 Time Off Btm: 2012.07.09 @ 17:08:30

TEST COMMENT: 1st Open 30 minutes Weak surface blow
 1st Shut in 60 No blow back
 2nd Open 30 minutes No blow dead
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1669.98	105.76	Initial Hydro-static
1	46.96	105.40	Open To Flow (1)
33	49.70	105.06	Shut-In(1)
90	786.18	106.77	End Shut-In(1)
91	47.22	106.63	Open To Flow (2)
121	46.76	107.21	Shut-In(2)
180	721.96	108.50	End Shut-In(2)
181	1635.01	108.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil cut mud 1% Oil 99% Mud	0.07
1.00	Clean oil 100%	0.01

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17699 **DST#: 5**
 Test Start: 2012.07.09 @ 12:31:00

Tool Information

Drill Pipe:	Length: 3298.00 ft	Diameter: 3.80 inches	Volume: 46.26 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 46.26 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3298.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3275.00	
Hydraulic Tool	5.00			3280.00	
Jars	6.00			3286.00	
Safety Joint	2.00			3288.00	
Packer	5.00			3293.00	28.00 Bottom Of Top Packer
Packer	5.00			3298.00	
Anchor	35.00			3333.00	
Recorder	1.00	8405	Inside	3334.00	
Recorder	1.00	8400	Outside	3335.00	
Bull Plug	3.00			3338.00	40.00 Bottom Packers & Anchor
Total Tool Length:	68.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Kansas LLC

1-18s-14w-Barton

1390 East 8th Street Suite B
Hays Kansas 67601

Benton 1-42

Job Ticket: 17699

DST#: 5

ATTN: Justin Carter

Test Start: 2012.07.09 @ 12:31:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Oil cut mud 1%Oil 99%Mud	0.070
1.00	Clean oil 100%	0.014

Total Length: 6.00 ft Total Volume: 0.084 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

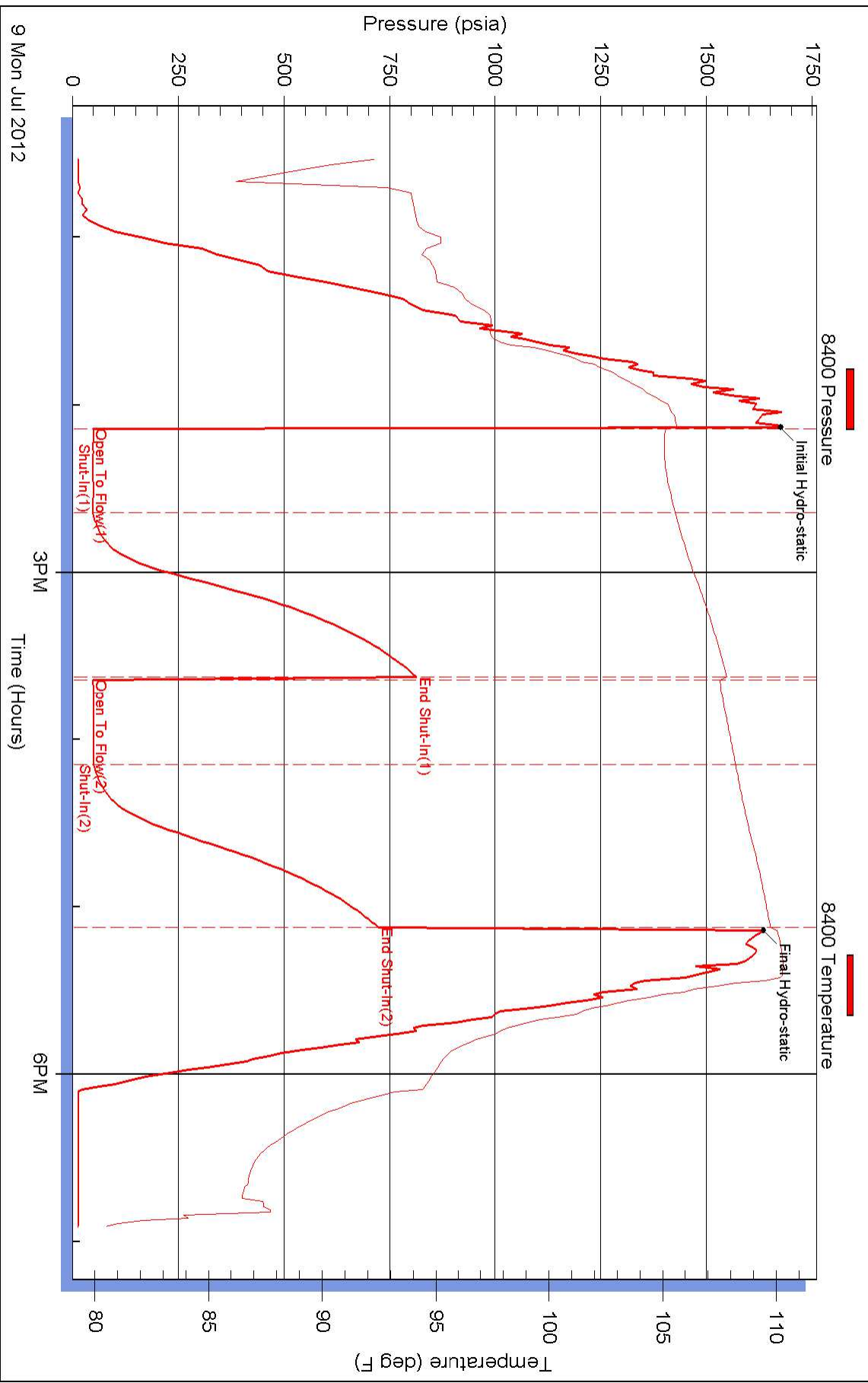
Serial #:

Laboratory Name:

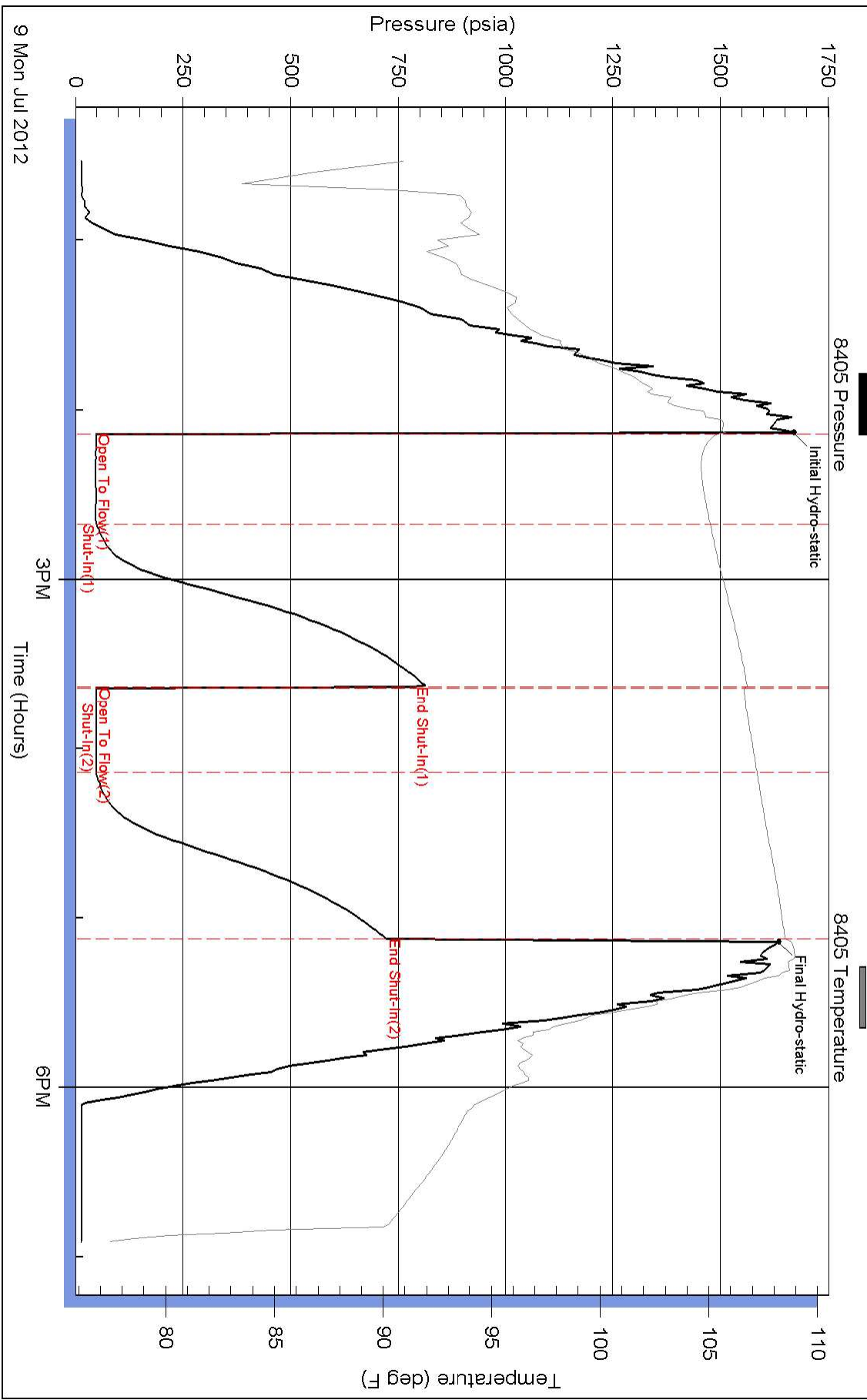
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Caerus Kansas LLC**

1390 East 8th Street Suite B
Hays Kansas 67601

ATTN: Justin Carter

Benton 1-42

1-18s-14w-Barton

Start Date: 2012.07.09 @ 01:52:00

End Date: 2012.07.09 @ 08:15:00

Job Ticket #: 17700 DST #: 6

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2012.07.09 @ 18:27:49



DRILL STEM TEST REPORT

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

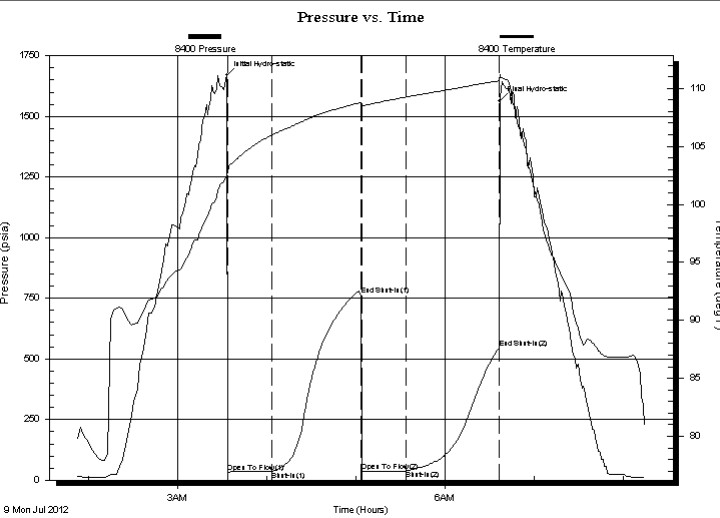
1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17700 **DST#: 6**
 Test Start: 2012.07.09 @ 01:52:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:34:00
 Time Test Ended: 08:15:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-22
 Interval: **3338.00 ft (KB) To 3346.00 ft (KB) (TVD)**
 Total Depth: 3346.00 ft (KB) (TVD)
 Reference Elevations: 1838.00 ft (KB)
 1828.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 10.00 ft

Serial #: 8400 Outside
 Press @ RunDepth: 38.52 psia @ 3343.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.09 End Date: 2012.07.09 Last Calib.: 2012.07.09
 Start Time: 01:52:00 End Time: 08:15:00 Time On Btm: 2012.07.09 @ 03:33:30
 Time Off Btm: 2012.07.09 @ 06:37:00

TEST COMMENT: 1st Open 30 minutes Weak surface blow
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes No blow dead
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1669.98	102.50	Initial Hydro-static
1	33.36	102.80	Open To Flow (1)
30	35.17	105.95	Shut-In(1)
90	763.20	108.75	End Shut-In(1)
91	36.68	108.47	Open To Flow (2)
121	38.52	109.25	Shut-In(2)
183	545.07	110.63	End Shut-In(2)
184	1563.37	111.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
7.00	Oil cut mud Oil 5% Mud 95%	0.10
5.00	Clean oil 100%	0.07

Gas Rates

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



DRILL STEM TEST REPORT

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

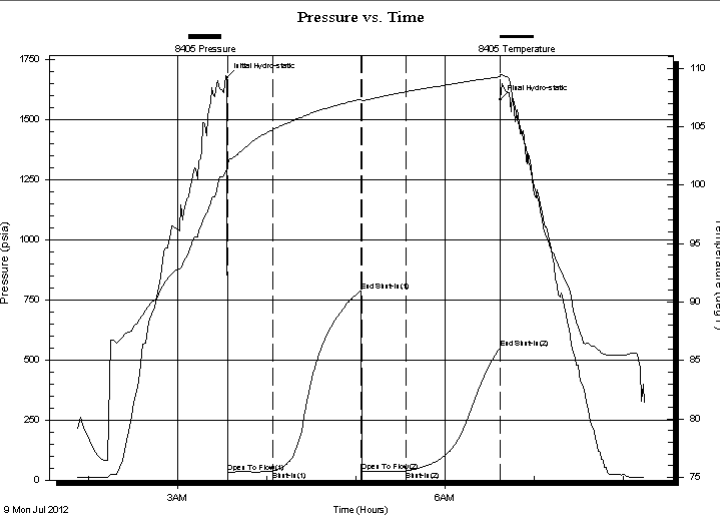
1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17700 **DST#: 6**
 Test Start: 2012.07.09 @ 01:52:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:34:00
 Time Test Ended: 08:15:00
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-Great Bend-22
 Interval: **3338.00 ft (KB) To 3346.00 ft (KB) (TVD)**
 Total Depth: 3346.00 ft (KB) (TVD)
 Reference Elevations: 1838.00 ft (KB)
 1828.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 10.00 ft

Serial #: 8405 Inside
 Press @ Run Depth: 548.28 psia @ 3342.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2012.07.09 End Date: 2012.07.09 Last Calib.: 2012.07.09
 Start Time: 01:52:00 End Time: 08:15:00 Time On Btm: 2012.07.09 @ 03:33:30
 Time Off Btm: 2012.07.09 @ 06:37:30

TEST COMMENT: 1st Open 30 minutes Weak surface blow
 1st Shut in 60 minutes No blow back
 2nd Open 30 minutes No blow dead
 2nd Shut in 60 minutes No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1671.79	101.36	Initial Hydro-static
1	32.76	101.75	Open To Flow (1)
31	35.49	104.73	Shut-In(1)
90	786.69	107.36	End Shut-In(1)
91	37.31	107.19	Open To Flow (2)
121	37.86	107.99	Shut-In(2)
184	548.28	109.27	End Shut-In(2)
184	1581.96	109.46	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
7.00	Oil cut mud Oil 5% Mud 95%	0.10
5.00	Clean oil 100%	0.07

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)



DRILL STEM TEST REPORT

TOOL DIAGRAM

Caerus Kansas LLC
 1390 East 8th Street Suite B
 Hays Kansas 67601
 ATTN: Justin Carter

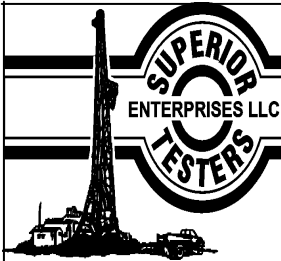
1-18s-14w-Barton
Benton 1-42
 Job Ticket: 17700 **DST#: 6**
 Test Start: 2012.07.09 @ 01:52:00

Tool Information

Drill Pipe:	Length: 3330.00 ft	Diameter: 3.80 inches	Volume: 46.71 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 46.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3338.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3315.00	
Hydraulic Tool	5.00			3320.00	
Jars	6.00			3326.00	
Safety Joint	2.00			3328.00	
Packer	5.00			3333.00	28.00 Bottom Of Top Packer
Packer	5.00			3338.00	
Anchor	3.00			3341.00	
Recorder	1.00	8405	Inside	3342.00	
Recorder	1.00	8400	Outside	3343.00	
Bull Plug	3.00			3346.00	8.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Kansas LLC

1-18s-14w-Barton

1390 East 8th Street Suite B
Hays Kansas 67601

Benton 1-42

Job Ticket: 17700

DST#: 6

ATTN: Justin Carter

Test Start: 2012.07.09 @ 01:52:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 56.00 sec/qt
Water Loss: 9.20 in³
Resistivity: ohm.m
Salinity: 6000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
7.00	Oil cut mud Oil 5% Mud 95%	0.098
5.00	Clean oil 100%	0.070

Total Length: 12.00 ft Total Volume: 0.168 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

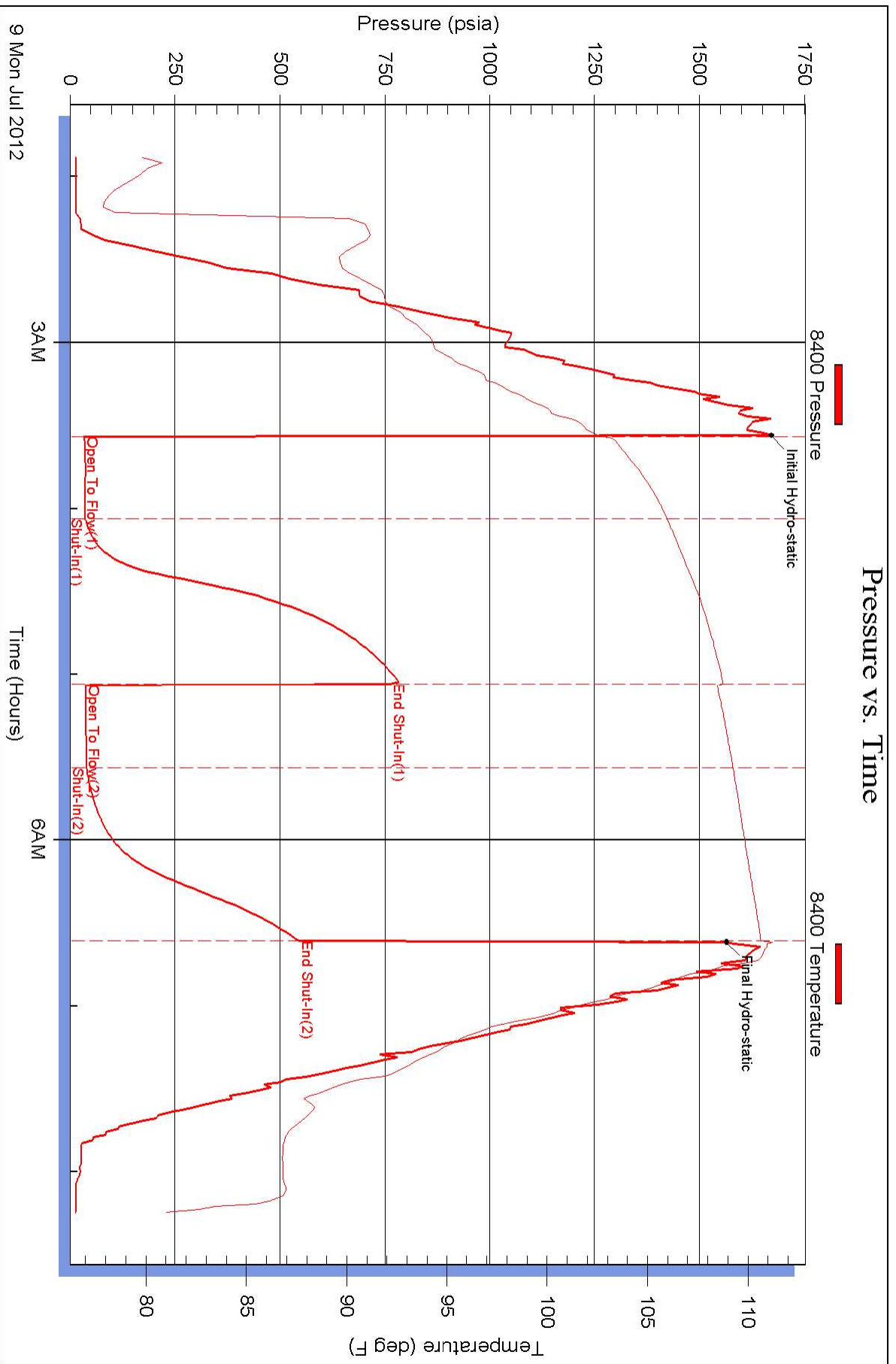
Serial #:

Laboratory Name:

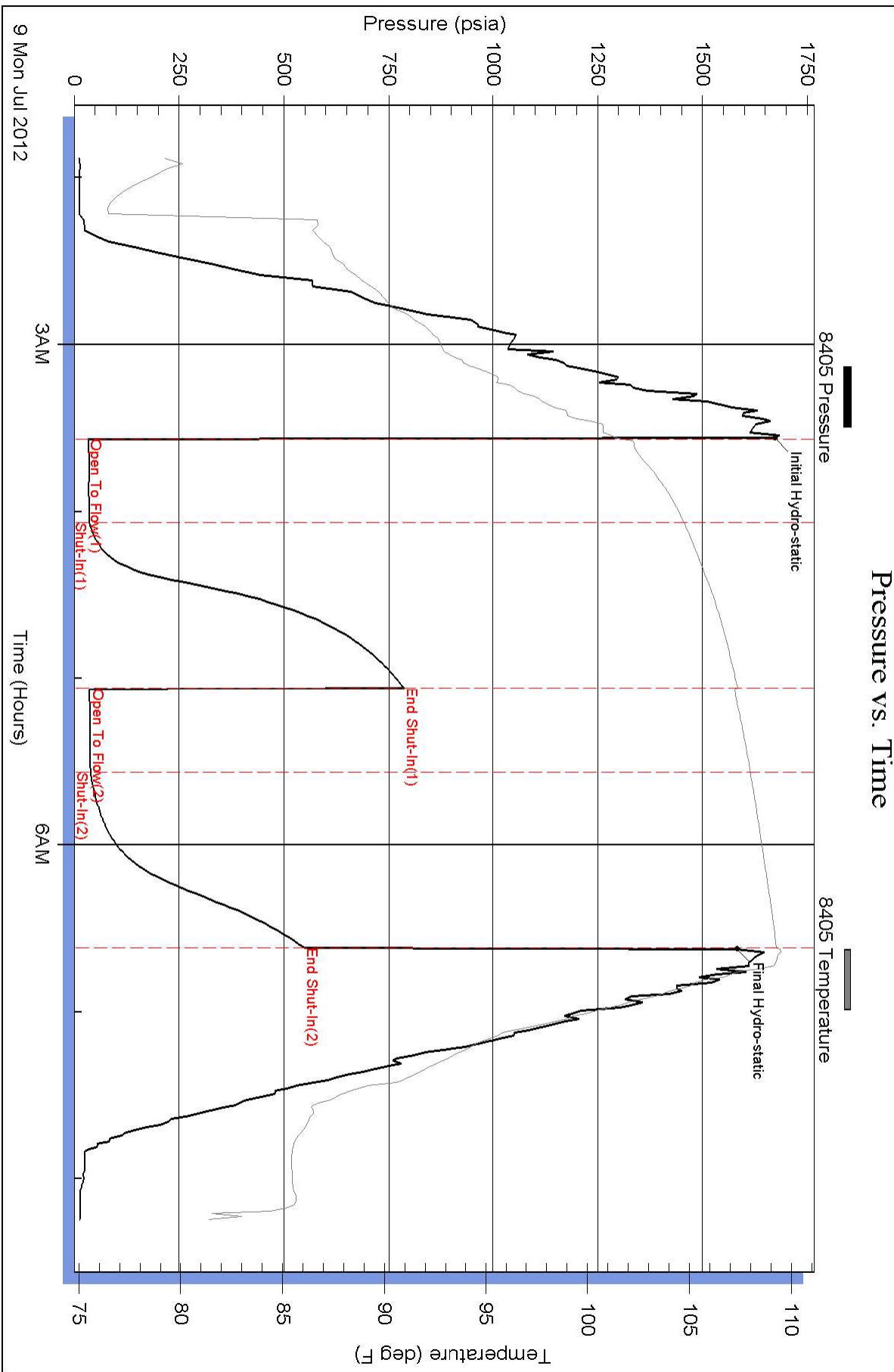
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 907

Phone 785-483-2025

Cell 785-324-1041

Date	7-10-12	Sec.	1	Twp.	18	Range	14	County	Barren	State	Ks	On Location		Finish	10:00pm
Lease	Benton		Well No.	1-42		Location		281 + 4 5ct, 25, 2E, 1/2N, W1/4							

Contractor: **Maverick #106**

Type Job: **plug**

Hole Size: **7 7/8"**

T.D.: **3423'**

Csg. Depth: **4 1/2" B.P. 3304'**

Tool Depth: **3304'**

Cement Left in Csg. **120/mud**

Meas Line

Displace

EQUIPMENT

Pumptrk	9 No.	Cement	Travis
Helper			
Driver	12 No.	Driver	Donog
Driver		Driver	Rock
Bulktrk		No.	
Bulktrk		No.	

Common **1/4**

Poz. Mix **7/6**

Gel.

Calcium

Hulls

Salt

Flowseal **50#**

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling **197**

Mileage

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

1 - Dry hole plug

Pumptrk Charge **plug**

Mileage **13**

Tax

Discount

Total Charge

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

DV or Port Collar

3304' - 25 SX

880' - 40 SX

300' - 70 SX

40' - 10 SX w/ plug

Rathole - 30 SX

Mousehole - 15 SX

Cement did Circulate

1 - Dry hole plug

Signature **D. E. Brown**

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 987

Phone 785-483-2025

Cell 785-324-1041

Date	7-3-12	Sec.	1	Twp.	18	Range	14	County	Barton	State	Kansas	On Location	1245th	Finish	1245th
Lease	Burlington														
Well No.	1-42														
Location	Horsington St. SW 3rd														
Owner	Quality Oilwell Cementing, Inc.														
<p>You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.</p> <p>To Quality Oilwell Cementing, Inc.</p>															
Type Job	Surface														
Hole Size	1 1/4														
Csg.	8 1/2 2315														
Tbg. Size	8 1/2 2315														
Tool	41'														
Cement Left in Csg.	41'														
Meas Line	Displace 507361														
EQUIPMENT															
No.	5	No.	100	No.	100	No.	100								
Cement	Helper	Driver	Driver	Driver	Driver	Driver	Driver								
Pumpk	5	Bulktr	100	Bulktr	100	Bulktr	100								
JOB SERVICES & REMARKS															
Remarks:	Benton 1-42														
Rat Hole															
Mouse Hole															
Centralizers															
Baskets															
DV or Port Collar	CFL-117 or CD110 CAF 38														
Sand	343														
Handling	343														
Mileage	343														
FLOAT EQUIPMENT															
Guide Shoe															
Centralizer															
Baskets															
AFU Inserts															
Float Shoe															
Latch Down															
Pumpk Charge	Long Surface														
Mileage	13														
Tax															
Discount															
Total Charge															

Signature *[Handwritten Signature]*

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