Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1370578

Form ACO-1
November 2016
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 31528
Name: Mike Kelso Oil, Inc.
Address 1: PO BOX 467
Address 2:
City: CHASE State: KS Zip: 67524 + 0467
Contact Person: Mike Kelso
Phone: (620) 938-2943
CONTRACTOR: License # 34908
Name: Skytop Drilling LLC
Wellsite Geologist: Pat Deenihan
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☐ SWD
☐ Gas ☑ DH ☐ EOR
☐ OG ☐ GSW
☐ 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 EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

08/17/2017 Spud Date or Recompletion Date
08/27/2017 Date Reached TD
10/2/2017 Completion Date or Recompletion Date

API No.: 15-195-23028-00-00
Spot Description: NE/4
NE - NW - SE - NE Sec. 21 Twp. 14 S. R. 22 ☐ East ☑ West
1330 Feet from ☑ North / ☐ South Line of Section
700 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Trego
Lease Name: HONAS Well #: A2
Field Name:
Producing Formation: Cherokee
Elevation: Ground: 2221 Kelly Bushing: 2228
Total Vertical Depth: 4225 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 253 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 1693 Feet
If Alternate II completion, cement circulated from: 1692
feet depth to: 1694 w/ 325 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 10000 ppm Fluid volume: 600 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☐ **Confidentiality Requested**
Date:
☐ **Confidential Release Date:**
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ **I** ☑ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 10/18/2017

[redacted]

1370578

Operator Name: Mike Kelso Oil, Inc. Lease Name: HONAS Well #: A2

Sec. 21 Twp. 14 S. R. 22 ☐ East ☑ West County: Trego

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 *(Attach Additional Sheets)*	☑ Yes	☐ No	
Samples Sent to Geological Survey	☐ Yes	☑ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geolgist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run:
Attached

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

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☐ New ☑ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	20	253	60/40poz	170	2%gel 3%calcium Chloride
Production	7.875	5.5	15	4224	260/40poz	200	2%gel 12%salt

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	1692-1694	65/35poz	325	4%gel
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/ Injection:	Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

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

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:	
		Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	3910	4158

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
Attached	Attached	Attached	Attached	Attached	Attached

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Mike Kelso Oil, Inc.
Well Name	HONAS A2
Doc ID	1370578

All Electric Logs Run

Cement Bond Log
Dual Comp Porosity Log
Dual Induction Log
Microresistivity Log

Form	ACO1 - Well Completion
Operator	Mike Kelso Oil, Inc.
Well Name	HONAS A2
Doc ID	1370578

Tops

Name	Top	Datum
Heebner	3588	-1360
Toronto	3606	-1378
Lansing	3623	-1395
BKC	3876	-1648
Marmaton	3892	-1664
Altamont	3930	-1702
Pawnee	3998	-1770
Fort Scott	4058	-1830
Cher. Lime	4084	-1856
Miss.	4188	-1960

Form	ACO1 - Well Completion
Operator	Mike Kelso Oil, Inc.
Well Name	HONAS A2
Doc ID	1370578

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSetAt	Material Record
4	3984	3986			250gal 15%ma
4	4053	4056			250gal mud acid
4	4085	4092			500gal mud acid
4	4096	4102			
4	4133	4140			750gal hydrochloric acid
4	4156	4158			

Form	ACO1 - Well Completion
Operator	Mike Kelso Oil, Inc.
Well Name	HONAS A2
Doc ID	1370578

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	20	253	60/40poz	170	2%gel 3%calcium Chloride
Production	7.875	5.5	15	4224	260/40poz	200	2%gel 12%salt

GRESSEL OIL
Field Service
P.O. BOX 438
Haysville, KS 67060

CEMENT BOND LOG

Company MIKE KELSO OIL,INC
Well HONAS "A" #2
Field WILDCAT
County TREGO
State KANSAS

Location
1330' FNL & 700" FEL
SEC. 21 TWP. 14SW RGE. 22W

Other Services

Elevation
K.B. 2228
D.F.
G.L. 2221

Permanent Datum	GROUND LEVEL
Elevation	2221
Log Measured From	KELLY BUSHING 7' AGL
Drilling Measured From	KELLY BUSHING

Date	09-27-2017	09-27-2017
Run Number	ONE	ONE
Depth Driller	4225	
Depth Logger	4136	1800
Bottom Logged Interval		1799
Top Log Interval	3032	1650
Open Hole Size		
Type Fluid	WATER	
Density / Viscosity		
Max. Recorded Temp.		
Estimated Cement Top	3232	
Time Well Ready		
Time Logger on Bottom		
Equipment Number	405	
Location	GREAT BEND	
Recorded By	LEE BRETZ	
Witnessed By	MR. MIKE KELSO	

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8.625		0	250
Prot. String				
Production String	5.5		0	4210
Liner				

<<< Fold Here >>>

Comments

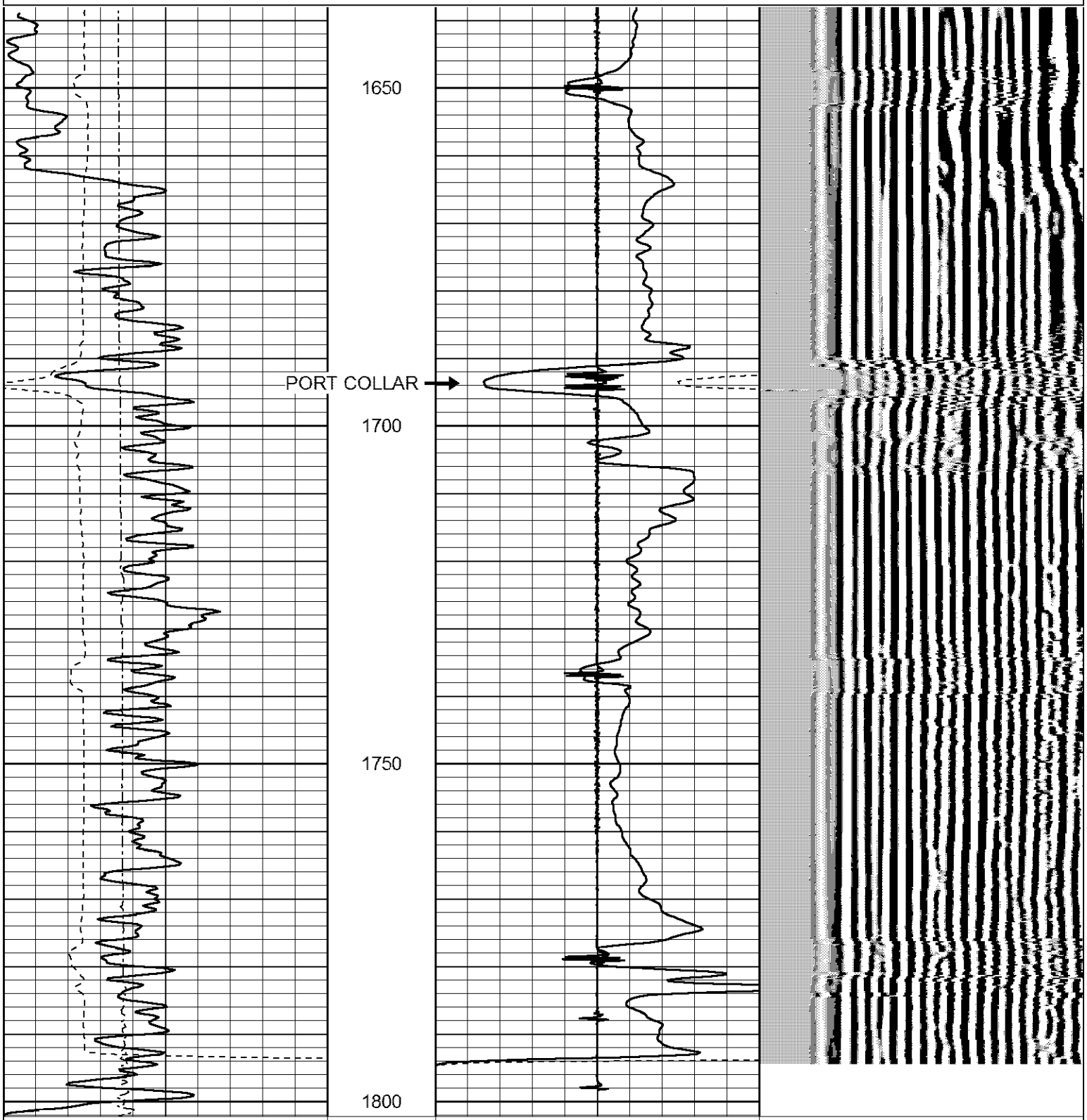
THANK YOU FOR USING GRESSEL OIL FIELD SERVICE!

GRESSEL OIL
Field Service
P.O. BOX 438
Haysville, KS 67060

PORT COLLAR

Database File:	honasa2.db
Dataset Pathname:	pass4
Presentation Format:	cbl02
Dataset Creation:	Wed Sep 27 14:52:20 2017 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 150	5 Collar Locator -5	200 VARIABLE DENSITY 1200
320 TT3 (usec) 120	0 Amplitude (mV) 100	
0 LTEN (lb) 1500	0 X5 Amplitude (mV) 20	



0 Gamma Ray (GAPI) 150	5 Collar Locator -5	200 VARIABLE DENSITY 1200
320 TT3 (usec) 120	0 Amplitude (mV) 100	
0 LTEN (lb) 1500	0 X5 Amplitude (mV) 20	

GRESSEL OIL
Field Service
P.O. BOX 438
Haysville, KS 67060

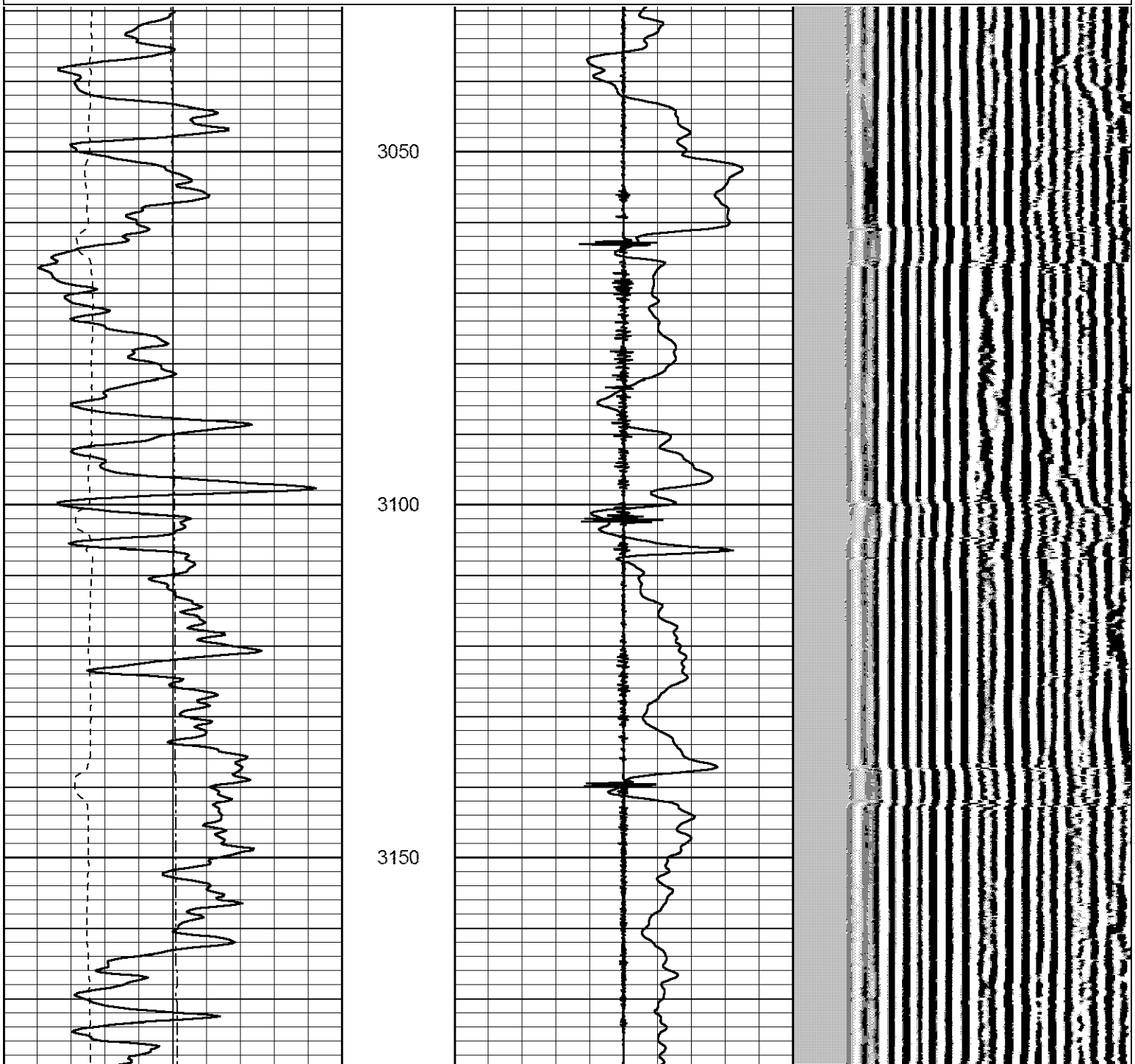
MAIN PASS

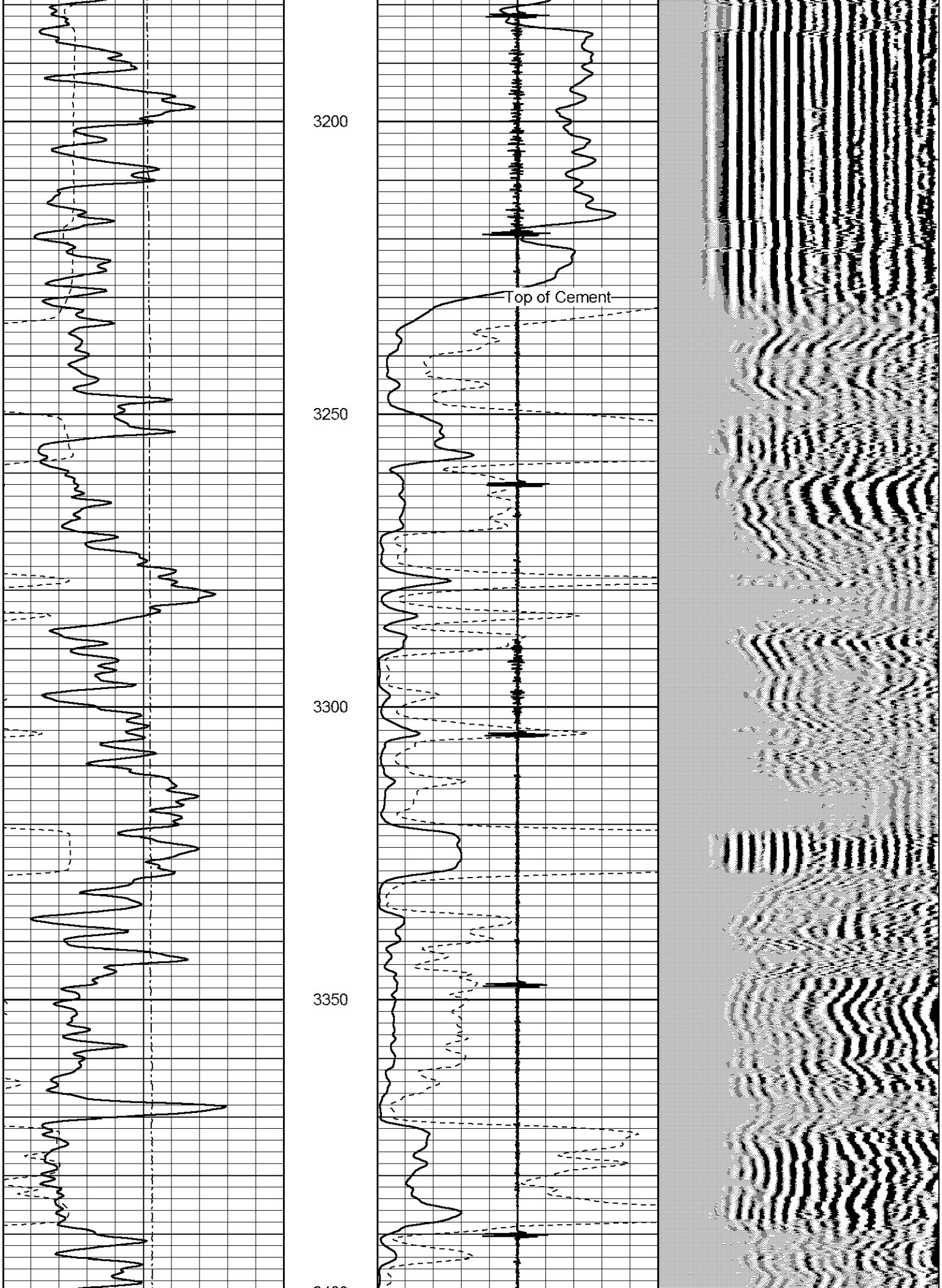
Database File:	honasa2.db
Dataset Pathname:	pass3
Presentation Format:	cbl02
Dataset Creation:	Wed Sep 27 14:19:05 2017 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240

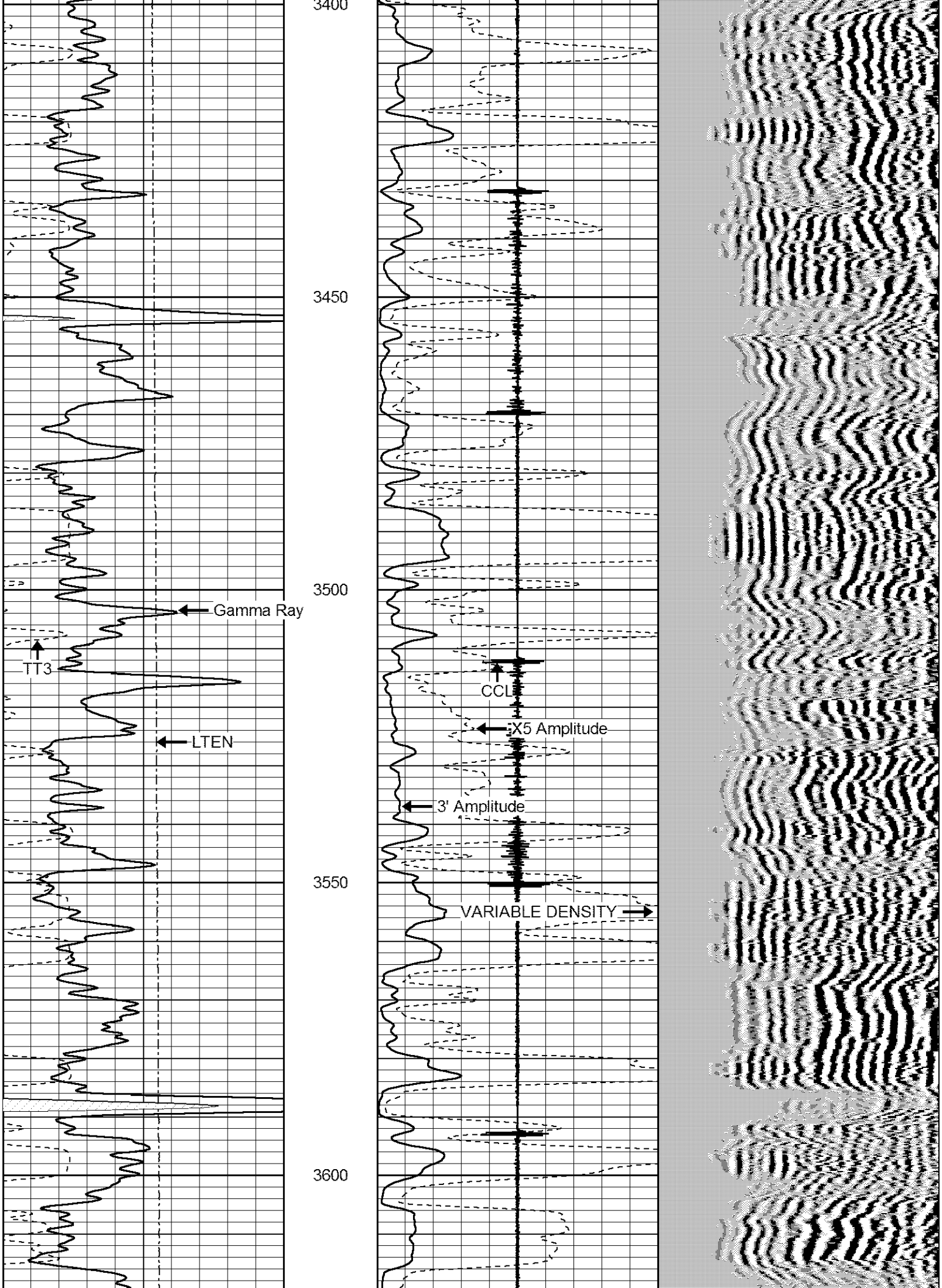
0	Gamma Ray (GAPI)	150
320	TT3 (usec)	120
0	LTEN (lb)	1500

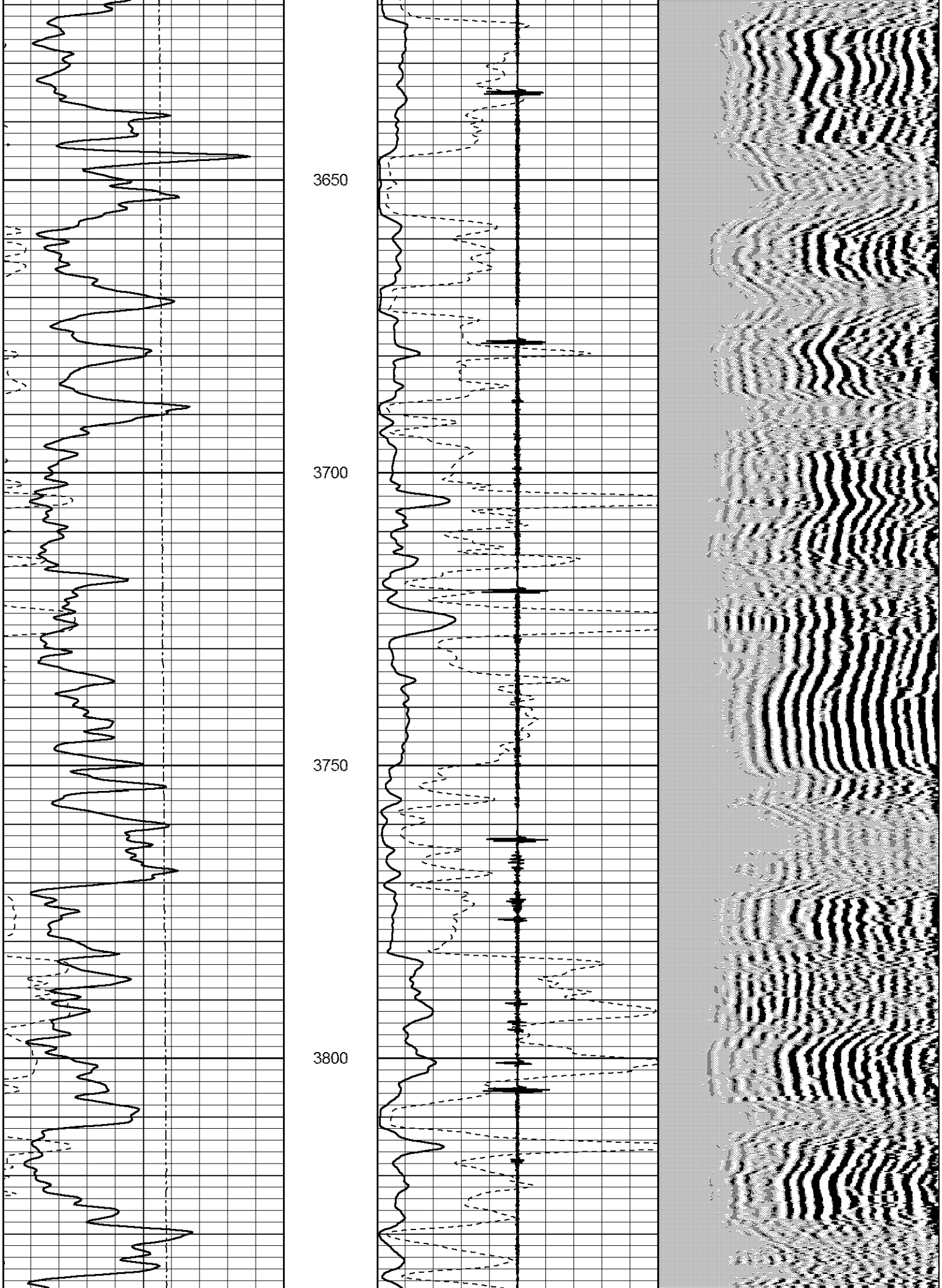
5	Collar Locator	-5
0	Amplitude (mV)	100
0	X5 Amplitude (mV)	20

200	VARIABLE DENSITY	1200




3200
Top of Cement
3250
3300
3350


3400
3450
3500
3550
3600
Gamma Ray
TT3
LTEN
CCL
X5 Amplitude
3' Amplitude
VARIABLE DENSITY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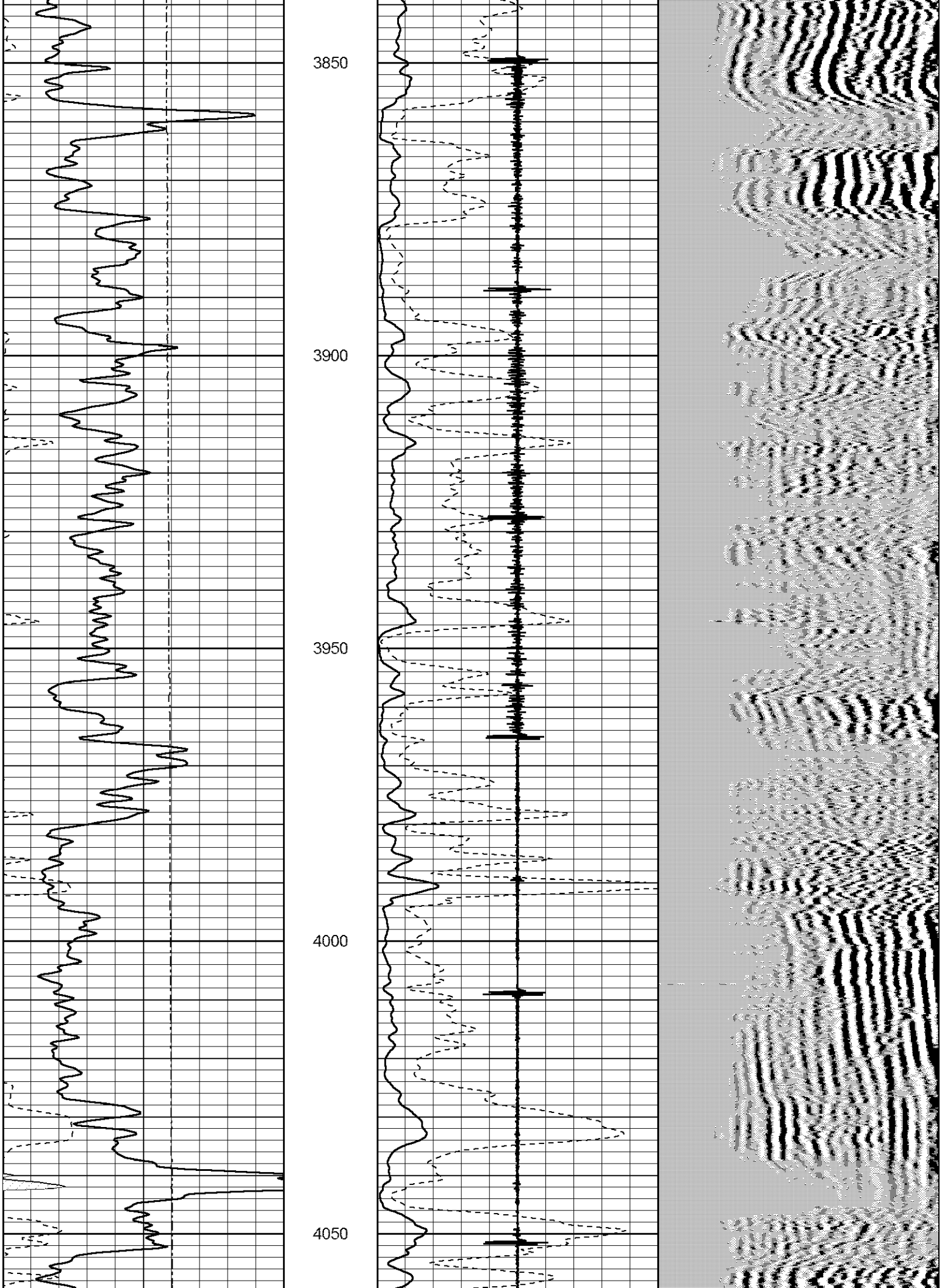
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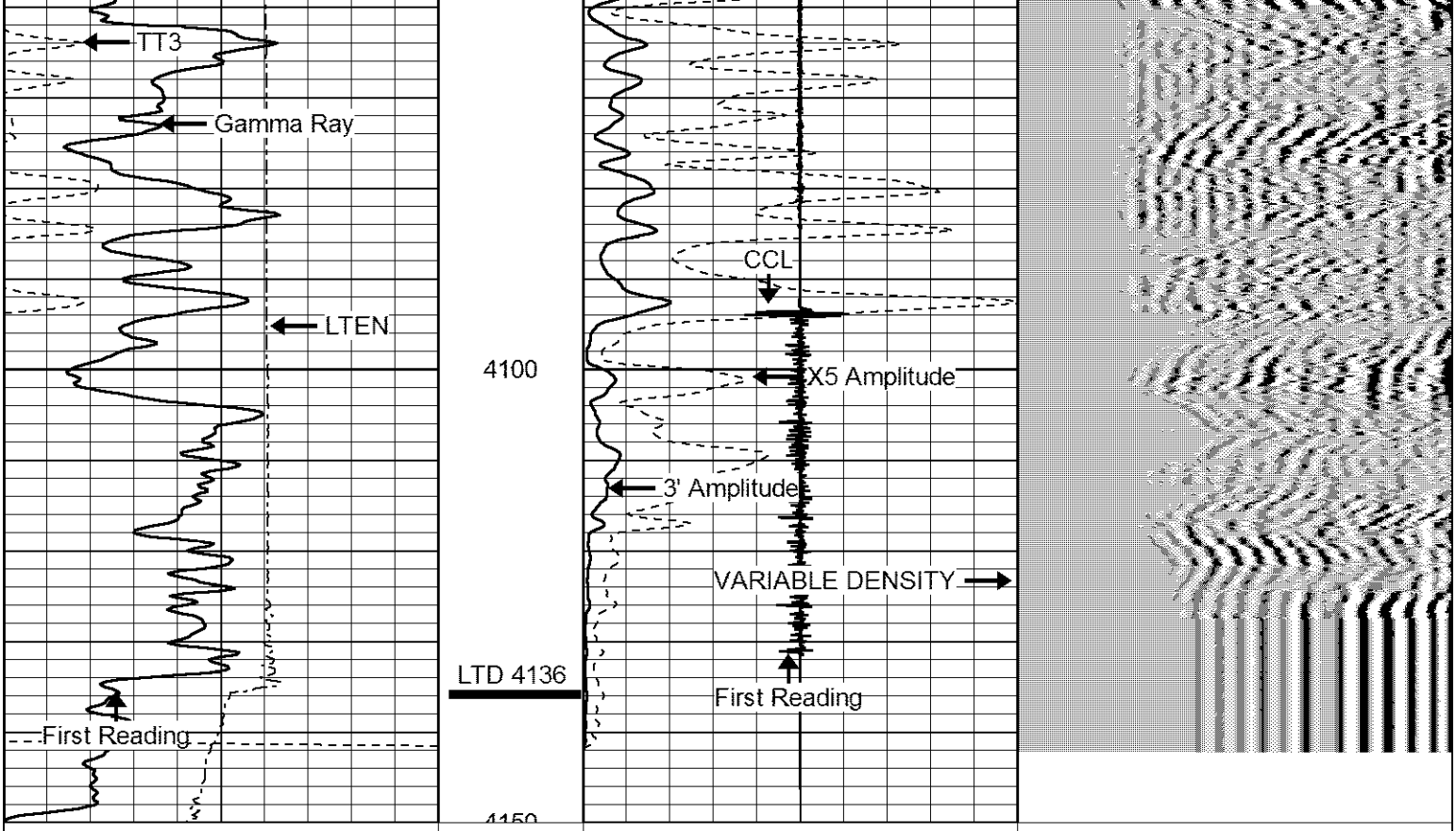


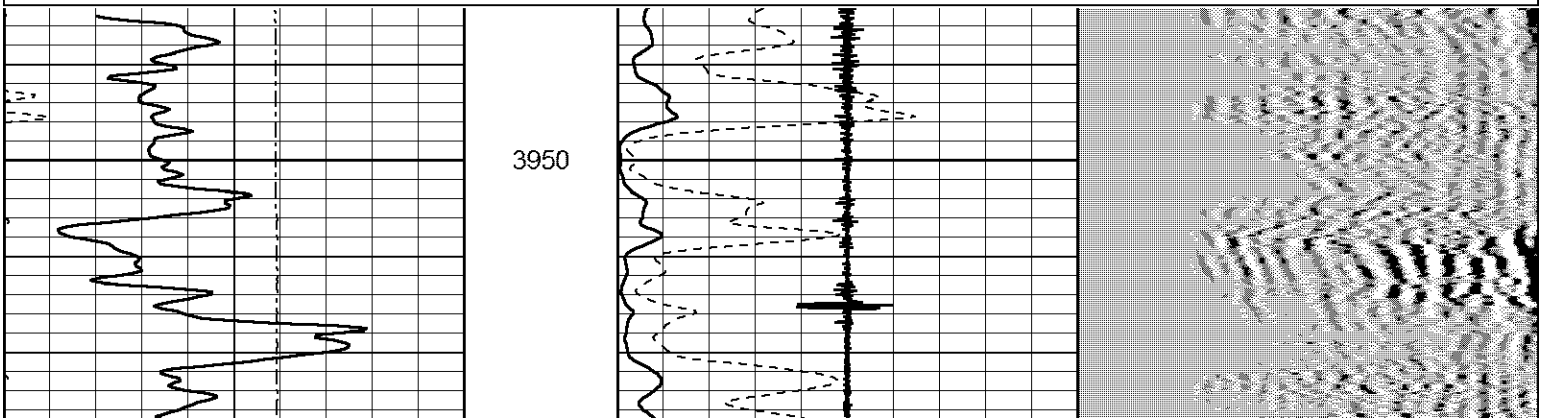
0 Gamma Ray (GAPI) 150	5 Collar Locator -5	200 VARIABLE DENSITY 1200
320 TT3 (usec) 120	0 Amplitude (mV) 100	
0 LTEN (lb) 1500	0 X5 Amplitude (mV) 20	

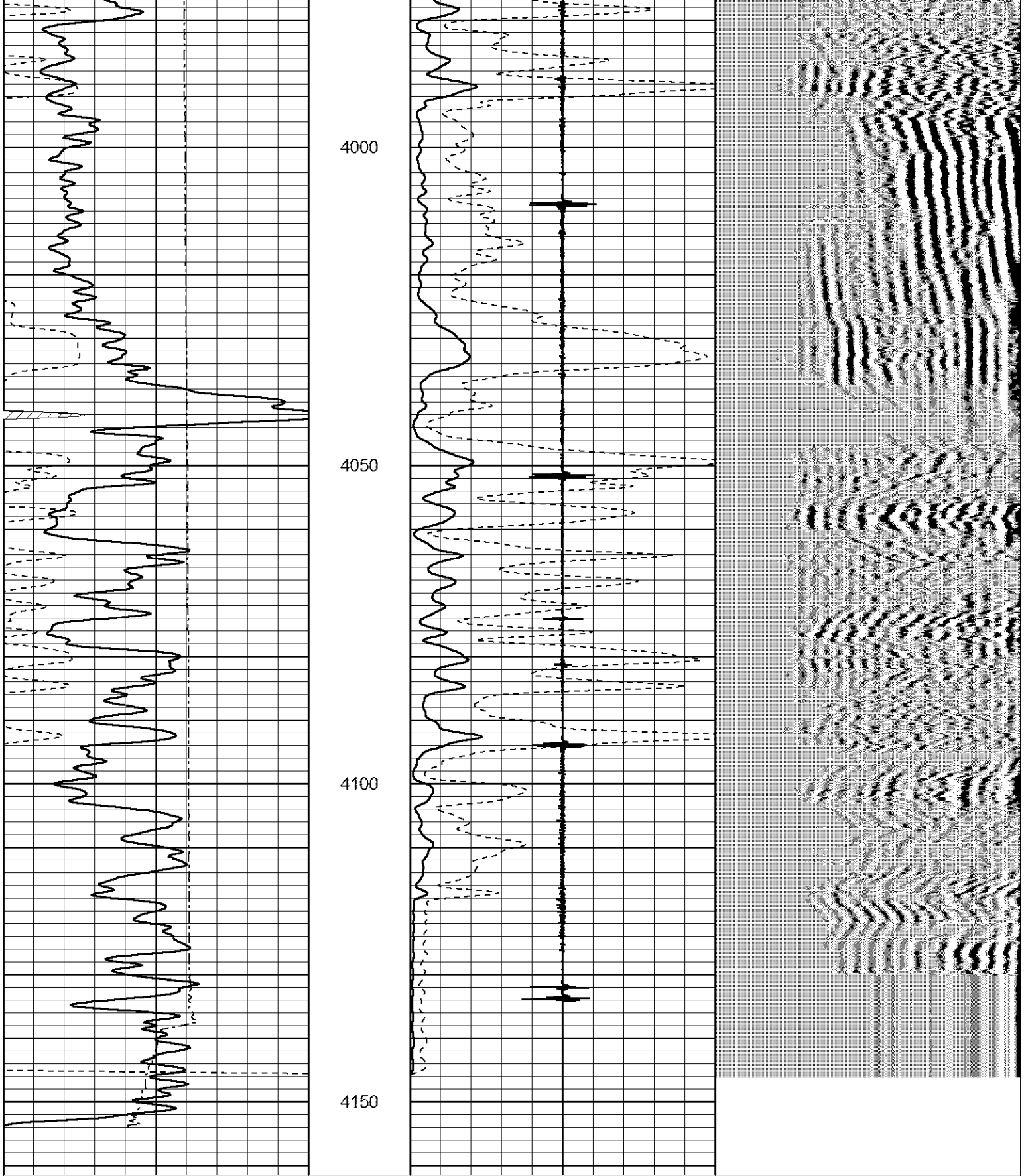
GRESSEL OIL
Field Service
P.O. BOX 438
Haysville, KS 67060

REPEAT SECTION

Database File: honasa2.db
Dataset Pathname: pass2
Presentation Format: cbl02
Dataset Creation: Wed Sep 27 14:10:19 2017 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

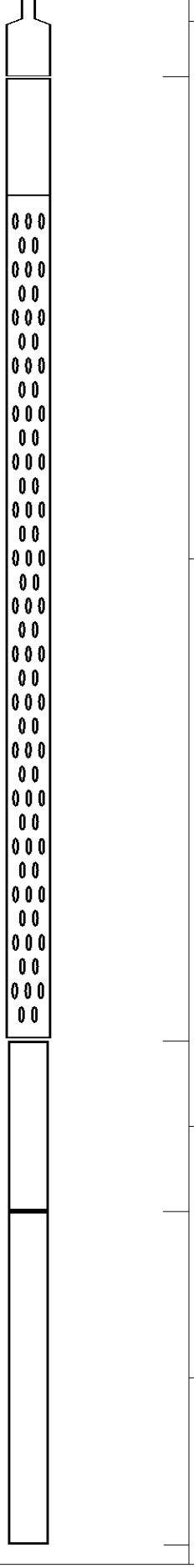
0 Gamma Ray (GAPI) 150	5 Collar Locator -5	200 VARIABLE DENSITY 1200
320 TT3 (usec) 120	0 Amplitude (mV) 100	
0 LTEN (lb) 1500	0 X5 Amplitude (mV) 20	





Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)

			STNDRD Standard Cable Head	1.00	1.69	10.00
WVF3	8.76		CBL-probecbl (probecbl1) probe cbl	8.75	2.75	92.00
WVF5	7.76					
CCL	3.69		CCL-Probe (275) probe ccl	1.55	2.75	30.00
GR	0.90		GR-probegr (progr1) probe gamma ray	3.02	2.75	20.00



Dataset:	honasa2.db: field/well/run1/pass4
Total Length:	14.32 ft
Total Weight:	152.00 lb
O.D.	2.75 in

PIONEER
Pioneer Energy Services

DUAL COMP POROSITY LOG

Company MIKE KELSO OIL, INC.
Well HONAS A NO.2
Field WILDCAT
County TREGO State KANSAS

Location: API # : 15-195-23028-00-00
1330' FNL & 700' FEL
SEC 21 TWP 14S RGE 22W

Other Services
DIL
MEL

Elevation 2221'
K.B. 2228'
D.F. N/A
G.L. 2221'

Permanent Datum GROUND LEVEL
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Company	MIKE KELSO OIL, INC.
Well	HONAS A NO.2
Field	WILDCAT
County	TREGO
State	KANSAS
Date	8/27/2017
Run Number	ONE
Type Log	CNL/CDL
Depth Driller	4225'
Depth Logger	4220'
Bottom Logged Interval	4191'
Top Logged Interval	3300'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	10,500
Density	9.7
Level	FULL
Max. Rec. Temp. F	118 DEG/F
Operating Rig Time	2 1/2 HOURS
Equipment -- Location	108 HAYS
Recorded By	J. HENRICKSON
Witnessed By	PAT DEENIHAN

Borehole Record

Run No.	Bit	From	To
ONE	12.25"	0	250'
TWO	7.875"	250'	TD

Casing Record

Size	Wgt.	From	To
8.625"	23#	0	250'

<<< Fold Here >>>

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

OGALLAH EXIT I 70
SOUTH TO CURVE, 3 SOUTH, 1 WEST, SOUTH INTO
(ROAD TO COVE 1 AT CEDAR BLUFF)

Log Measured From: KELLY BUSHING 7 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneeres.com 785-625-3858

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: J. HENRICKSON	Primary Witness: PAT DEENIHAN
Operator:	Secondary Witness: MIKE KELSO
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

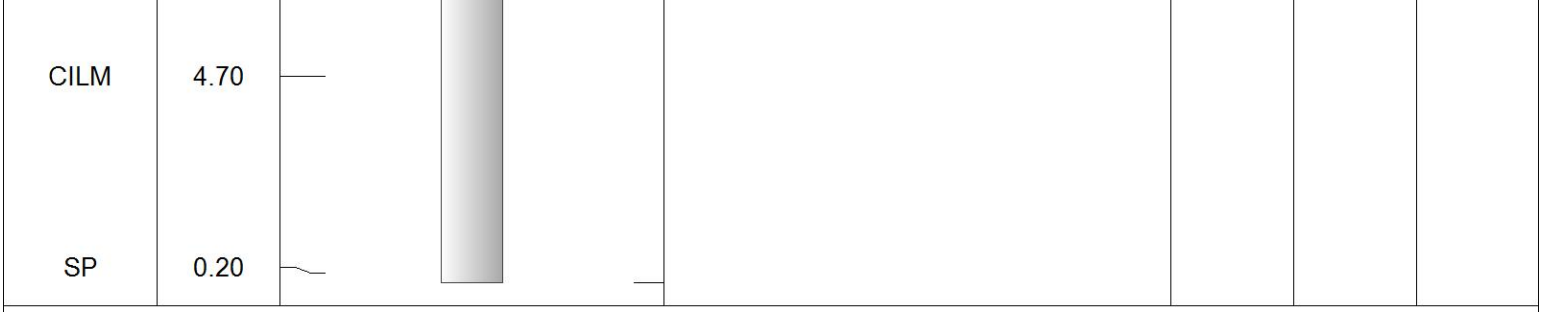
DatabaseC:\ProgramData\Warrior\Data\kelso_honas_a_2.db
Dataset field/well/stackml/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	118	5.5	0	1	2	2.71

NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	-90	61	Off	4220

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
GR	40.58		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC	37.48		CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	36.73					
LSD	28.43		CDL-M&W (168-986)	8.50	4.00	250.00
DCAL	28.42					
SSD	27.93					
			ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
MCAL	19.83					
MI	19.83					
MN	19.83					
RLL3	15.80					
RLL3F	15.79					
			DIL-M&W (1987)	18.50	3.50	220.00
CILD	8.00					



Dataset: kelso_honas_a_2.db: field/well/stackml/pass3.1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in

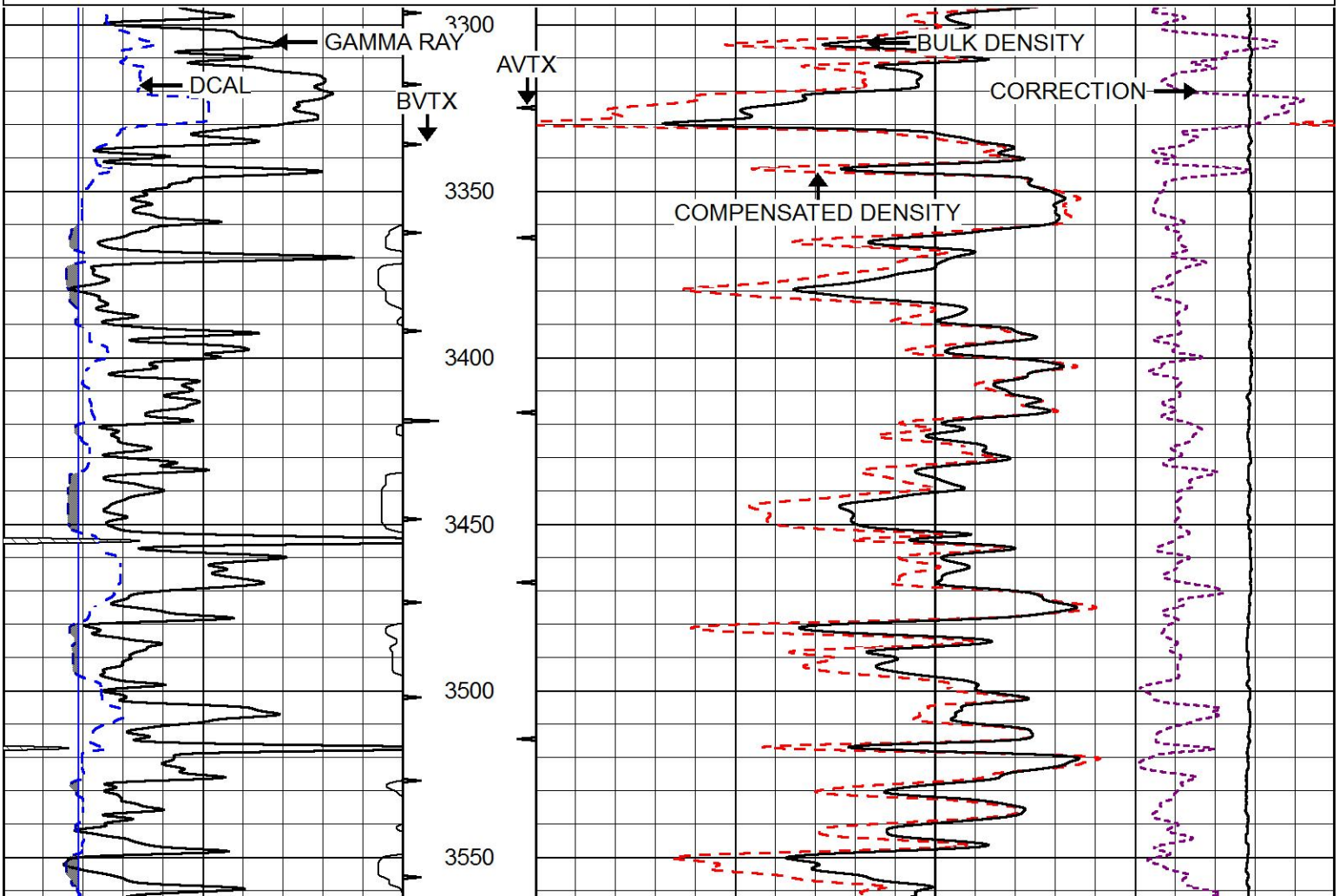
PIONEER
Pioneer Energy Services

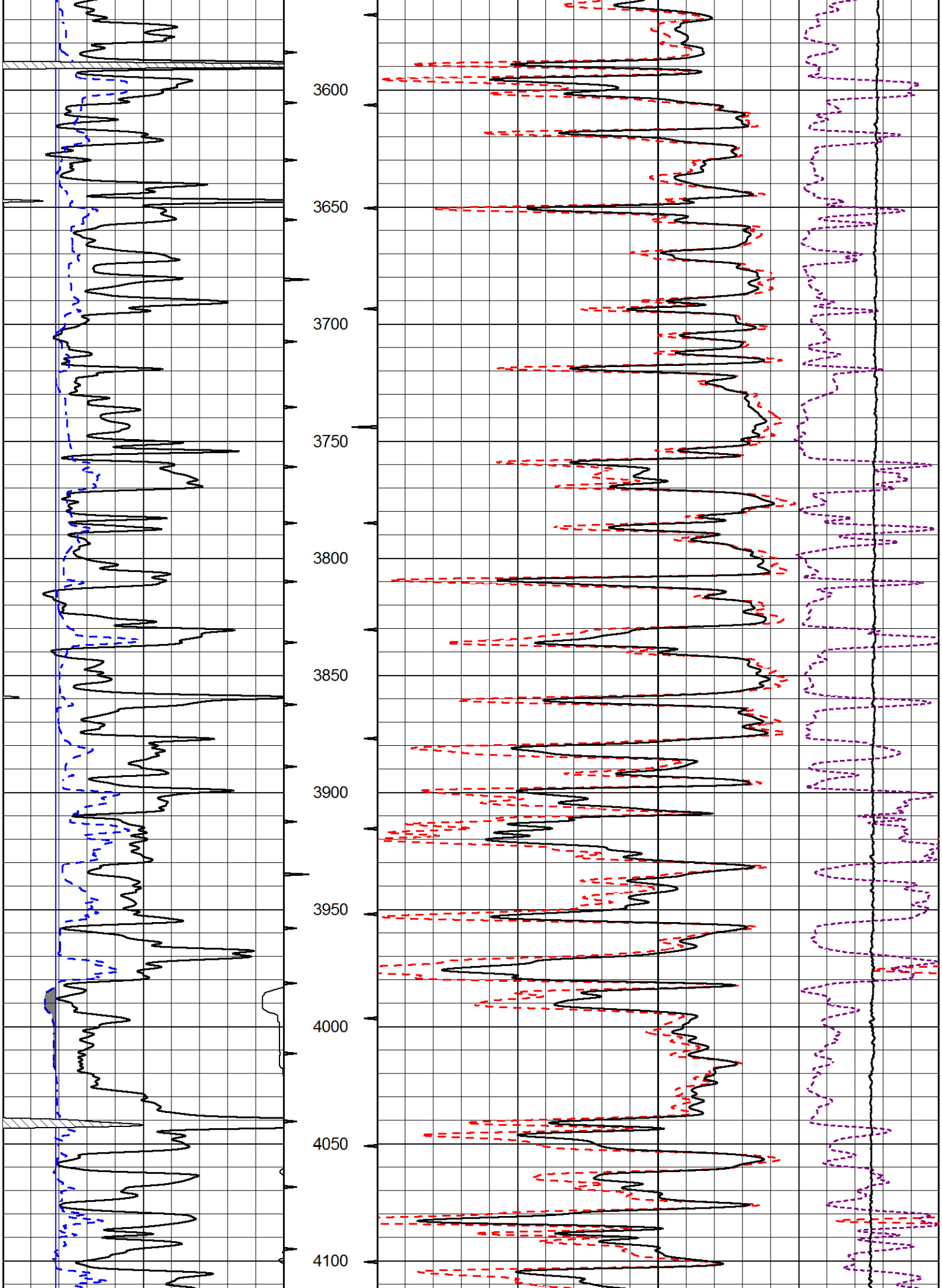
MAIN PASS

Database File	kelso_honas_a_2.db
Dataset Pathname	stackml/pass3.1
Presentation Format	cdl
Dataset Creation	Sun Aug 27 05:56:23 2017
Charted by	Depth in Feet scaled 1:600

0	GAMMA RAY (GAPI)	150
6	CALIPER (in)	16

30	COMPENSATED DENSITY (pu)	-10
2	BULK DENSITY (g/cc)	3
15000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25

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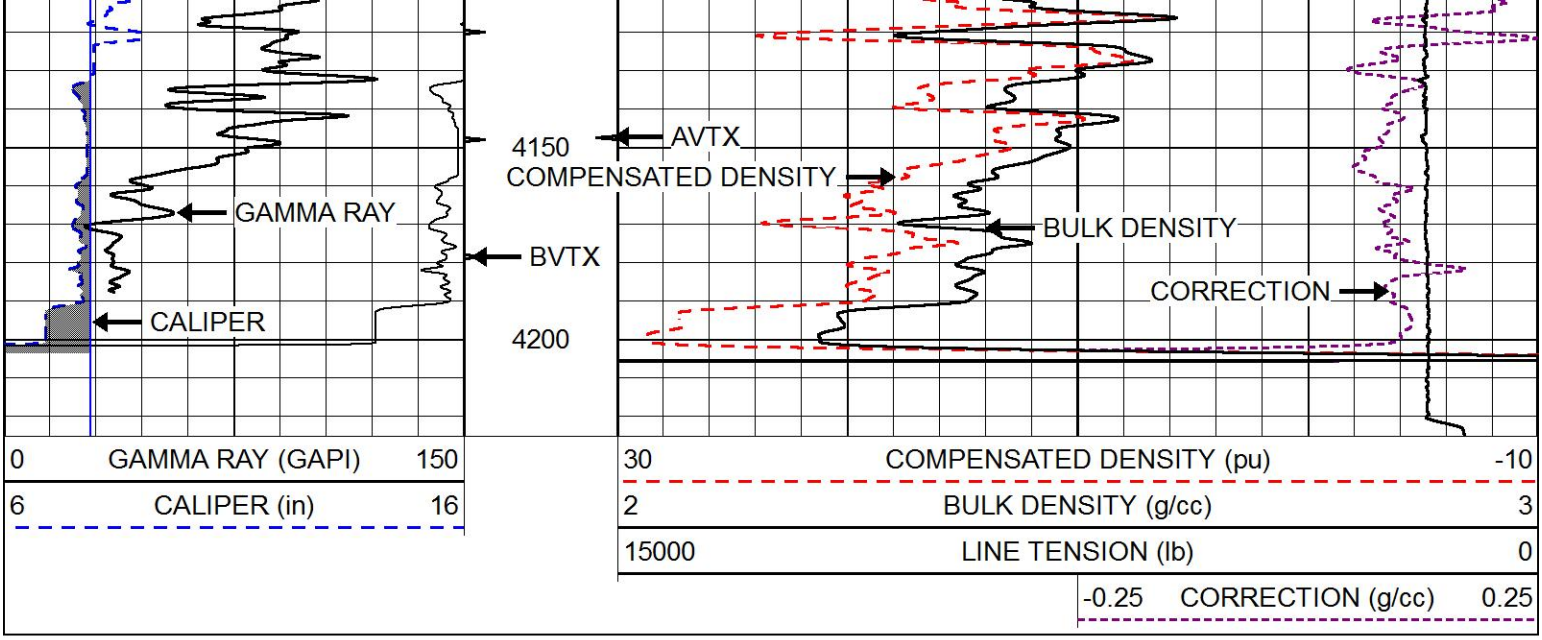
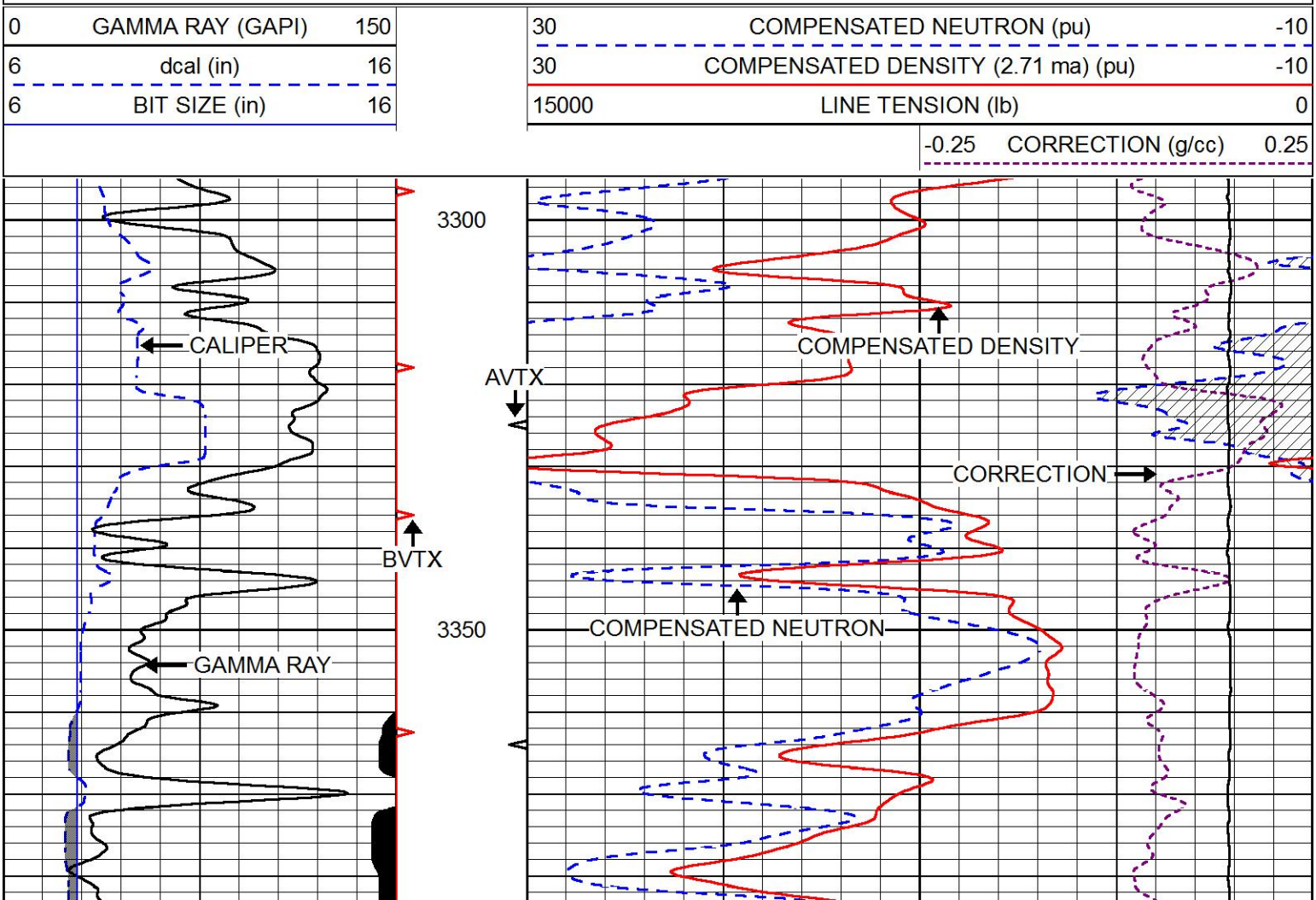
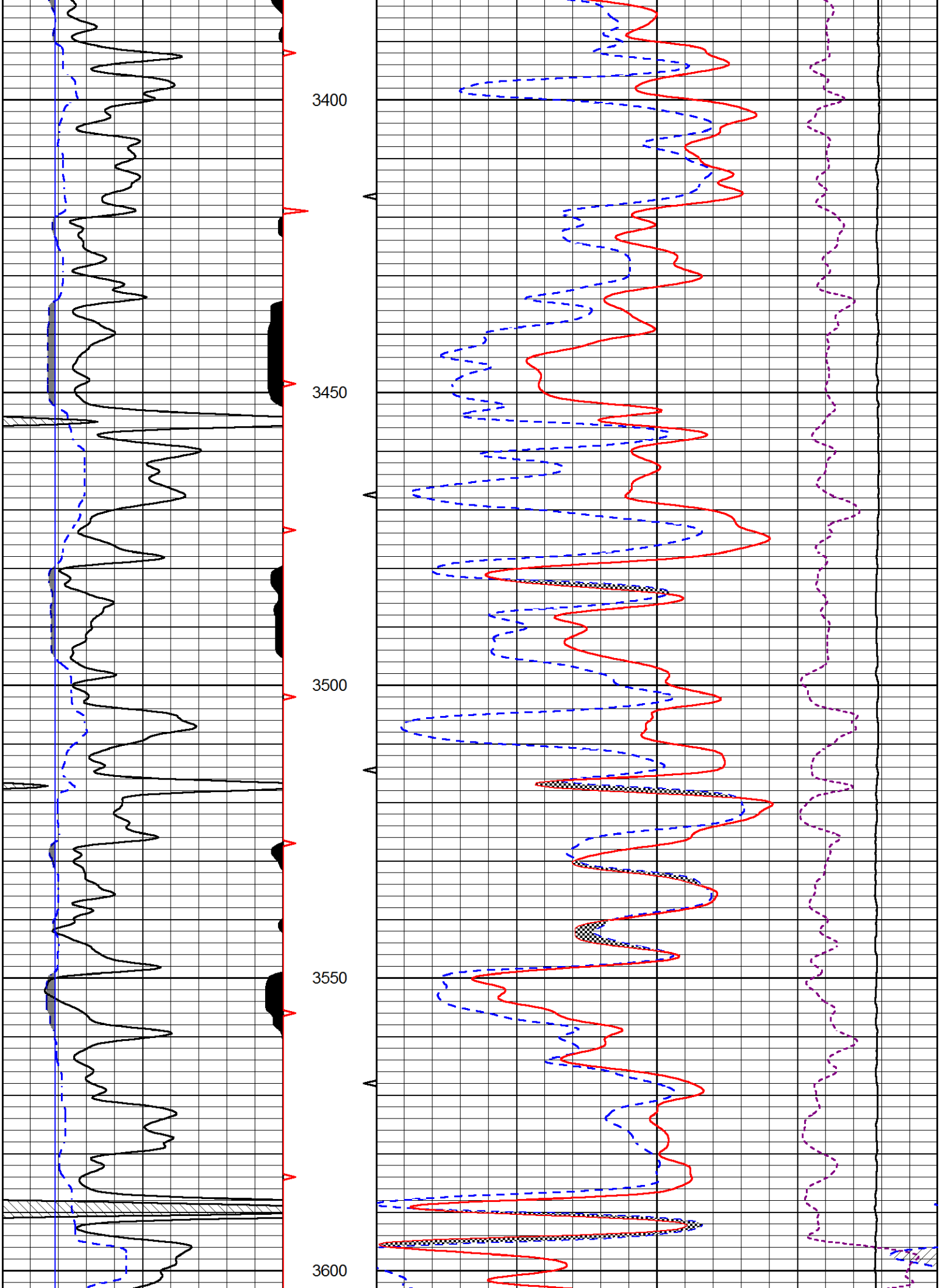


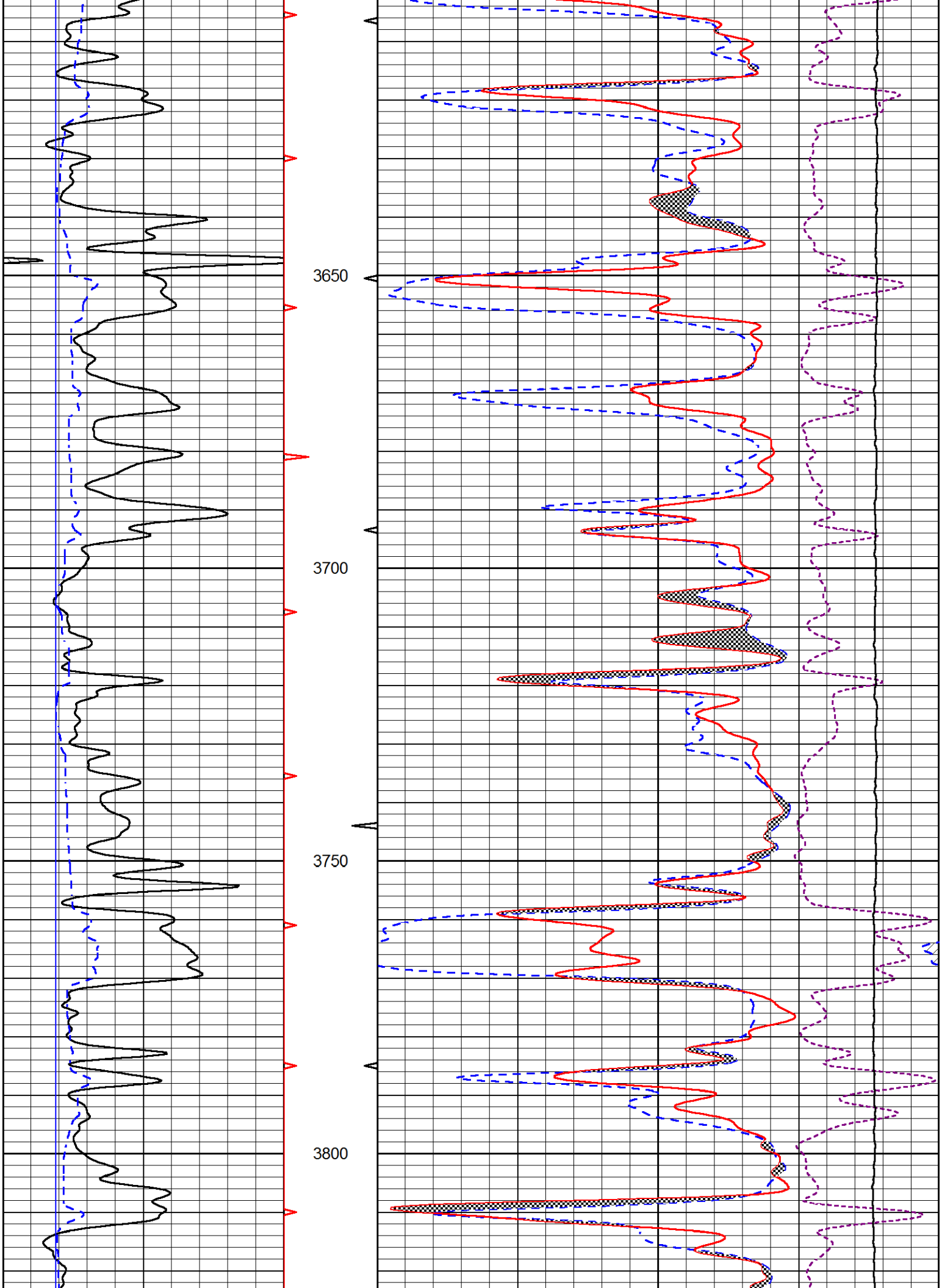
PIONEER
Pioneer Energy Services

MAIN PASS

Database File	kelso_honas_a_2.db
Dataset Pathname	stackml/pass3.1
Presentation Format	cndlspec
Dataset Creation	Sun Aug 27 05:56:23 2017
Charted by	Depth in Feet scaled 1:240




3400
3450
3500
3550
3600


3650
3700
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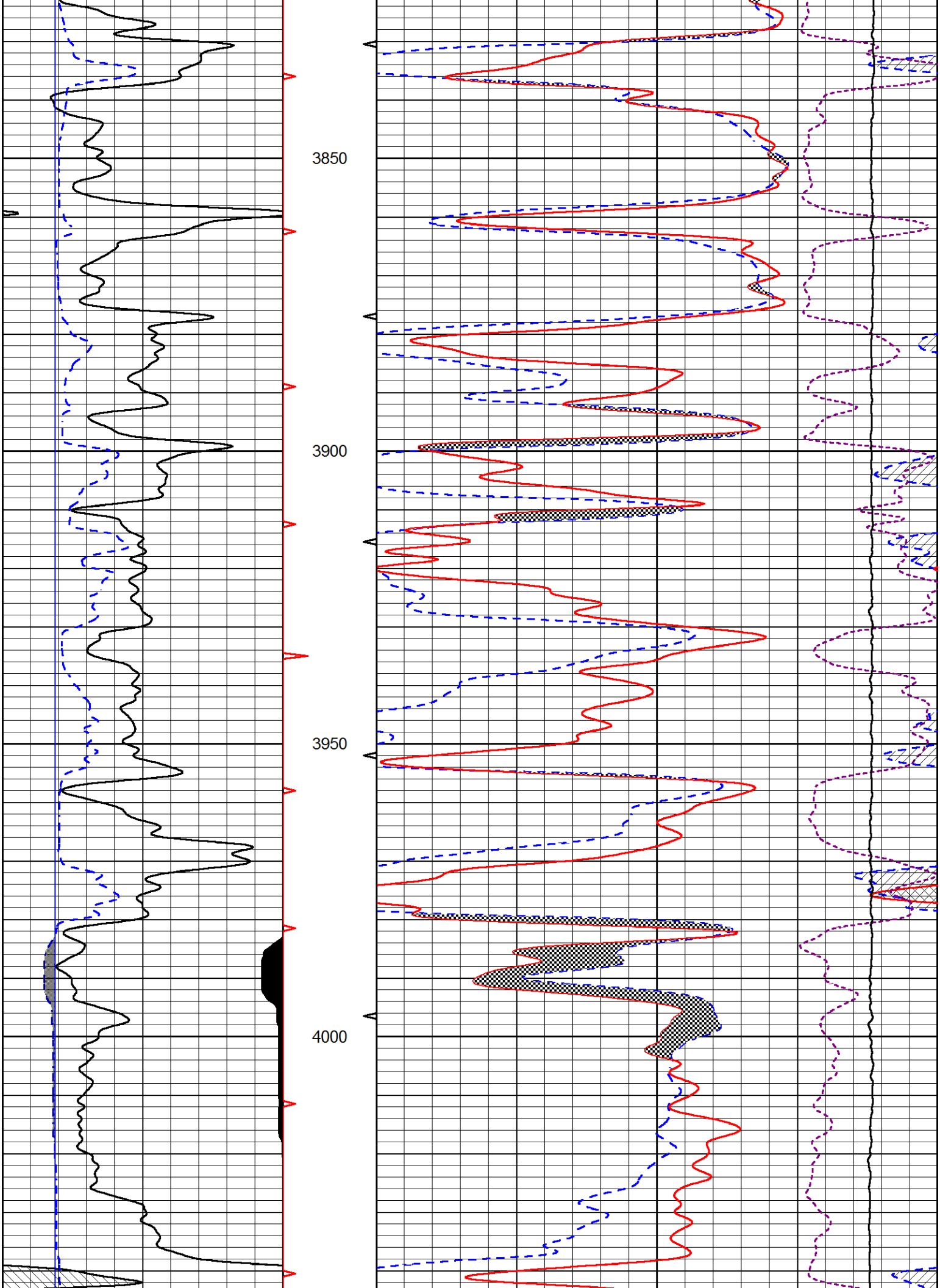
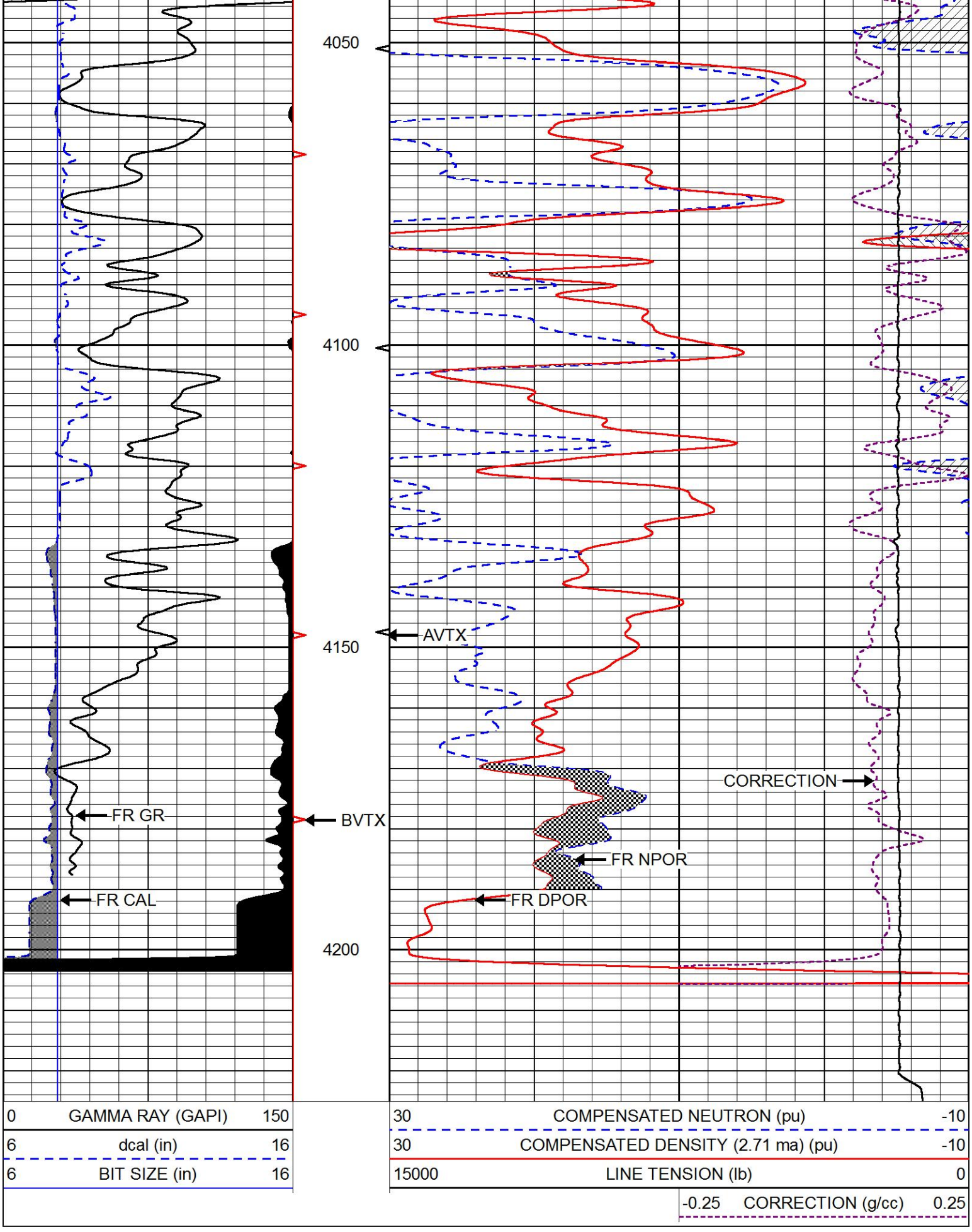
3800


3850
3900
3950
4000



REPEAT SECTION

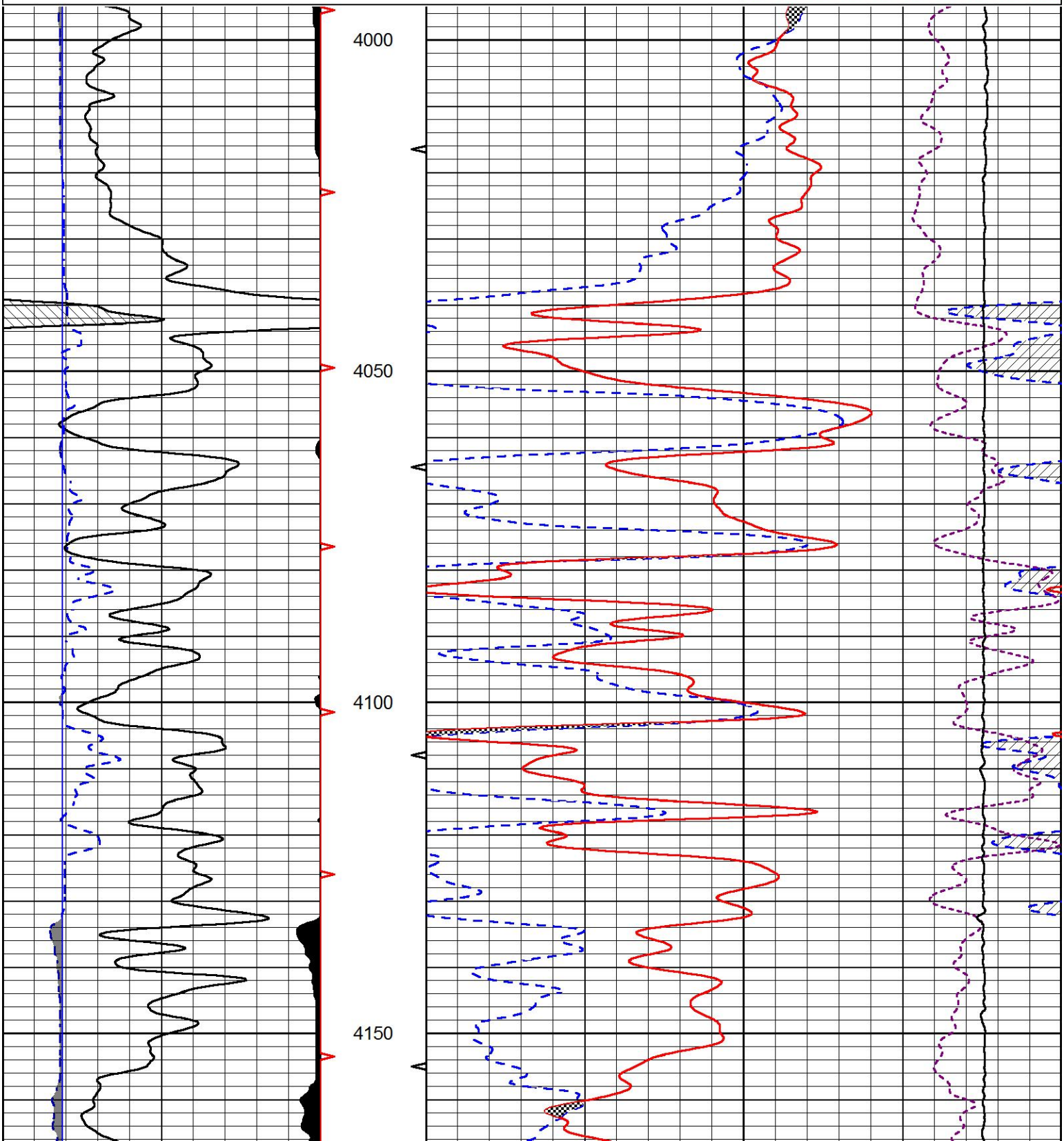
PIONEER
Pioneer Energy Services

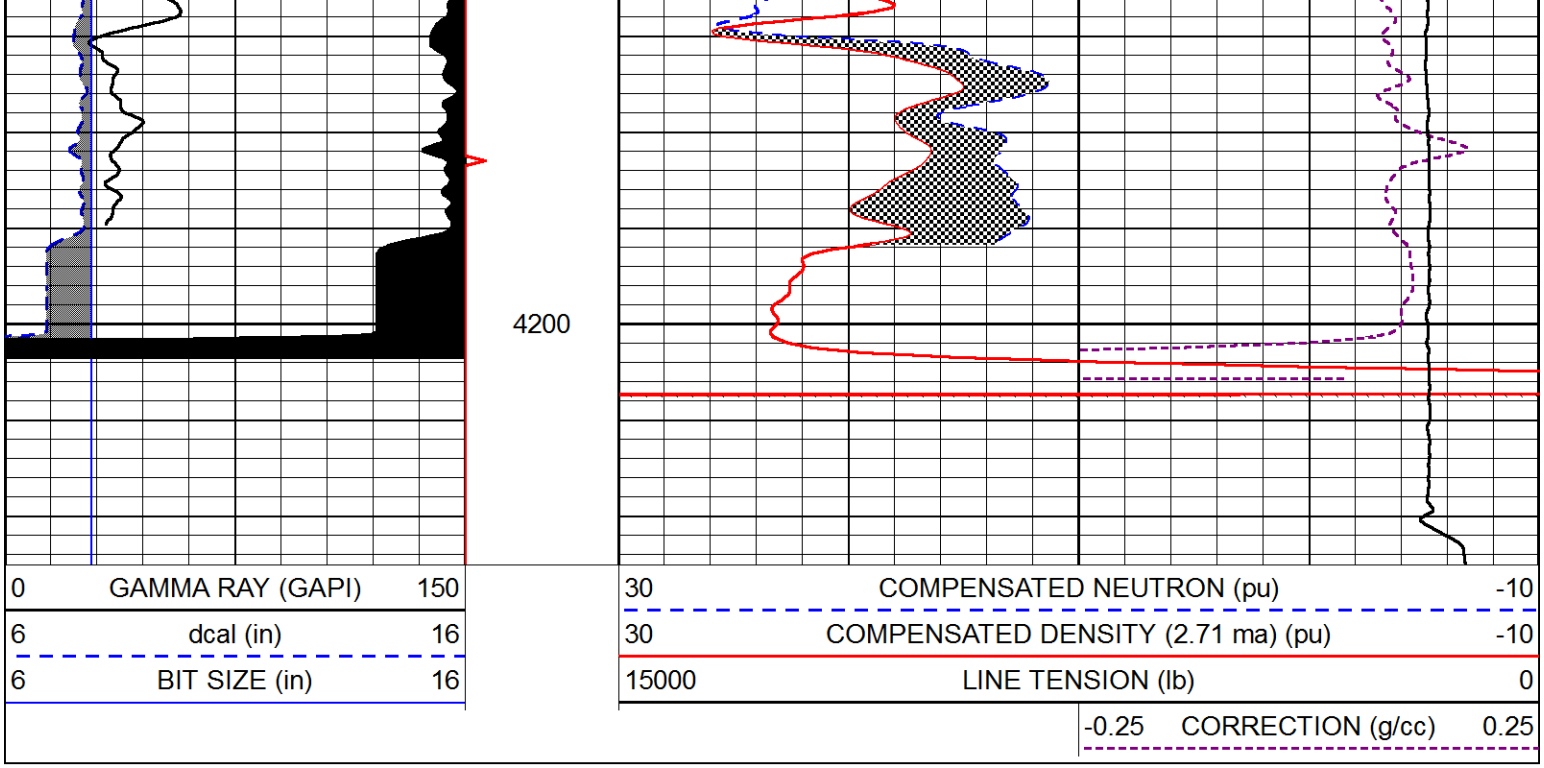
REPEAT SECTION

Database File	kelso_honas_a_2.db
Dataset Pathname	stackml/pass2.1
Presentation Format	cndlspec
Dataset Creation	Sun Aug 27 05:57:24 2017
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	dcal (in)	16
6	BIT SIZE (in)	16

30	COMPENSATED NEUTRON (pu)	-10
30	COMPENSATED DENSITY (2.71 ma) (pu)	-10
15000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25





Calibration Report

Database File	kelso_honas_a_2.db
Dataset Pathname	stackml/pass3.1
Dataset Creation	Sun Aug 27 05:56:23 2017

Dual Induction Calibration Report

Serial-Model:	1987-M&W
Calibration Performed:	Tue Apr 11 16:07:38 2017

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.530	-36.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.440	-110.500

Microlog Calibration Report

Serial-Model:	PSI-02-PSI STKBL ML
Performed:	Fri Jun 23 00:25:19 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0031	0.0043	0.0000	10.0000	Ohm-m	18000.0000	0.0000
Inverse	0.0000	0.0013	0.0000	10.0000	Ohm-m	20000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1560	-131.4500

Compensated Density Calibration Report

Serial-Model:	168-986-M&W
Source / Verifier:	/
Master Calibration Performed:	Tue Apr 11 16:07:47 2017

Master Calibration

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.675	g/cc	859.57	3020.22	cps

Spine Angle = 74.61 Density/Spine Ratio = 0.523

	Size		Reading
Small Ring	4.00	in	1.03
Large Ring	14.00	in	1.23

Compensated Neutron Calibration Report

Serial Number: tk10-MW
Tool Model: M&W
Calibration Performed: Wed Nov 16 11:21:36 2016

Detector	Readings		Target		Normalization
Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

Gamma Ray Calibration Report

Serial Number: 89-M&W
Tool Model: M&W
Calibration Performed: Tue Apr 11 16:08:01 2017

Calibrator Value: 1000.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 6.2 cps

Sensitivity: 0.5200 GAPI/cps

PIONEER
Pioneer Energy Services

Company MIKE KELSO OIL, INC.
Well HONAS A NO.2
Field WILDCAT
County TREGO
State KANSAS

PIONEER
Pioneer Energy Services

DUAL INDUCTION LOG

Company MIKE KELSO OIL, INC.
Well HONAS A NO.2
Field WILDCAT
County TREGO State KANSAS
Location: API # : 15-195-23028-00-00
1330' FNL & 700' FEL
SEC 21 TWP 14S RGE 22W

Other Services: CNL/CDL, MEL

Elevation: K.B. 2228', D.F. N/A, G.L. 2221'

Permanent Datum: GROUND LEVEL Elevation 2221'
Log Measured From: KELLY BUSHING
Drilling Measured From: KELLY BUSHING

Company MIKE KELSO OIL, INC.
Well HONAS A NO.2
Field WILDCAT
County TREGO
State KANSAS

Date	8/27/2017			
Run Number	ONE			
Depth Driller	4225'			
Depth Logger	4220'			
Bottom Logged Interval	4219'			
Top Log Interval	250'			
Casing Driller	8.625" @ 250'			
Casing Logger	248'			
Bit Size	7.875"			
Type Fluid in Hole	CHEMICAL			
Salinity,ppm CL	10,500			
Density / Viscosity	9.7	56		
pH / Fluid Loss	9.0	8.8		
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	.35 @ 62			
Rmf @ Meas. Temp	.26 @ 62			
Rmc @ Meas. Temp	.47 @ 62			
Source of Rmf / Rmc	CHARTS			
Rm @ BHT	.18 @ 118			
Operating Rig Time	2 1/2 HOURS			
Max Rec. Temp. F	118 DEG/F			
Equipment Number	108			
Location	HAYS			
Recorded By	J. HENRICKSON			
Witnessed By	PAT DEENIHAN	MIKE KELSO		

<<< Fold Here >>>

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

OGALLAH EXIT I 70
SOUTH TO CURVE, 3 SOUTH, 1 WEST, SOUTH INTO
(ROAD TO COVE 1 AT CEDAR BLUFF)

Log Measured From: KELLY BUSHING 7 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneeres.com 785-625-3858

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: J. HENRICKSON	Primary Witness: PAT DEENIHAN
Operator:	Secondary Witness: MIKE KELSO
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\kelso_honas_a_2.db
Dataset field/well/stackml/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	118	5.5	0	1	2	2.71

NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	-90	61	Off	4220

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
GR	40.58		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC	37.48		CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	36.73					
LSD	28.43		CDL-M&W (168-986)	8.50	4.00	250.00
DCAL	28.42					
SSD	27.93					
			ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
MCAL	19.83					
MI	19.83					
MN	19.83					
RLL3	15.80					
RLL3F	15.79					
			DIL-M&W (1987)	18.50	3.50	220.00
CILD	8.00					

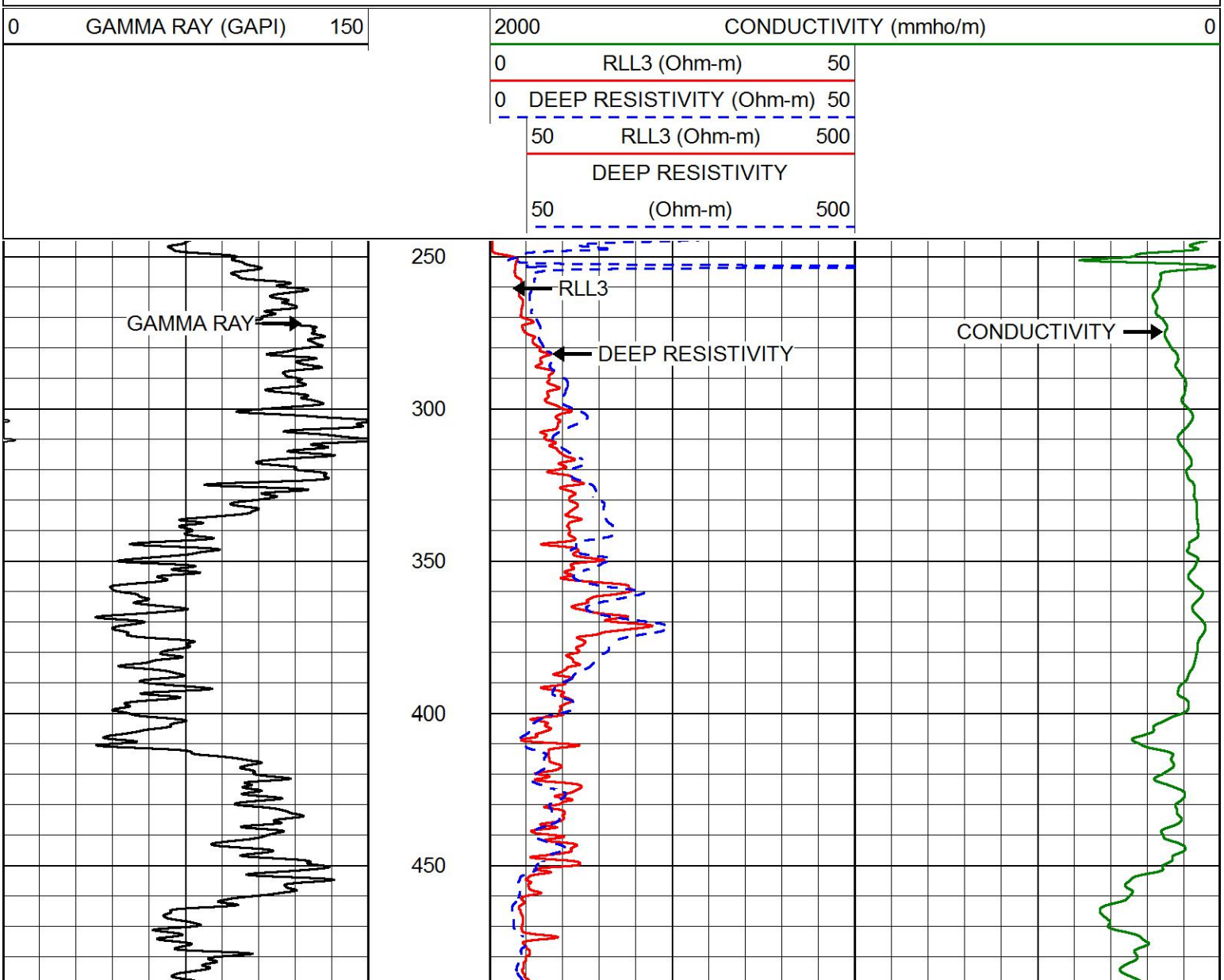
CILM	4.70	
SP	0.20	

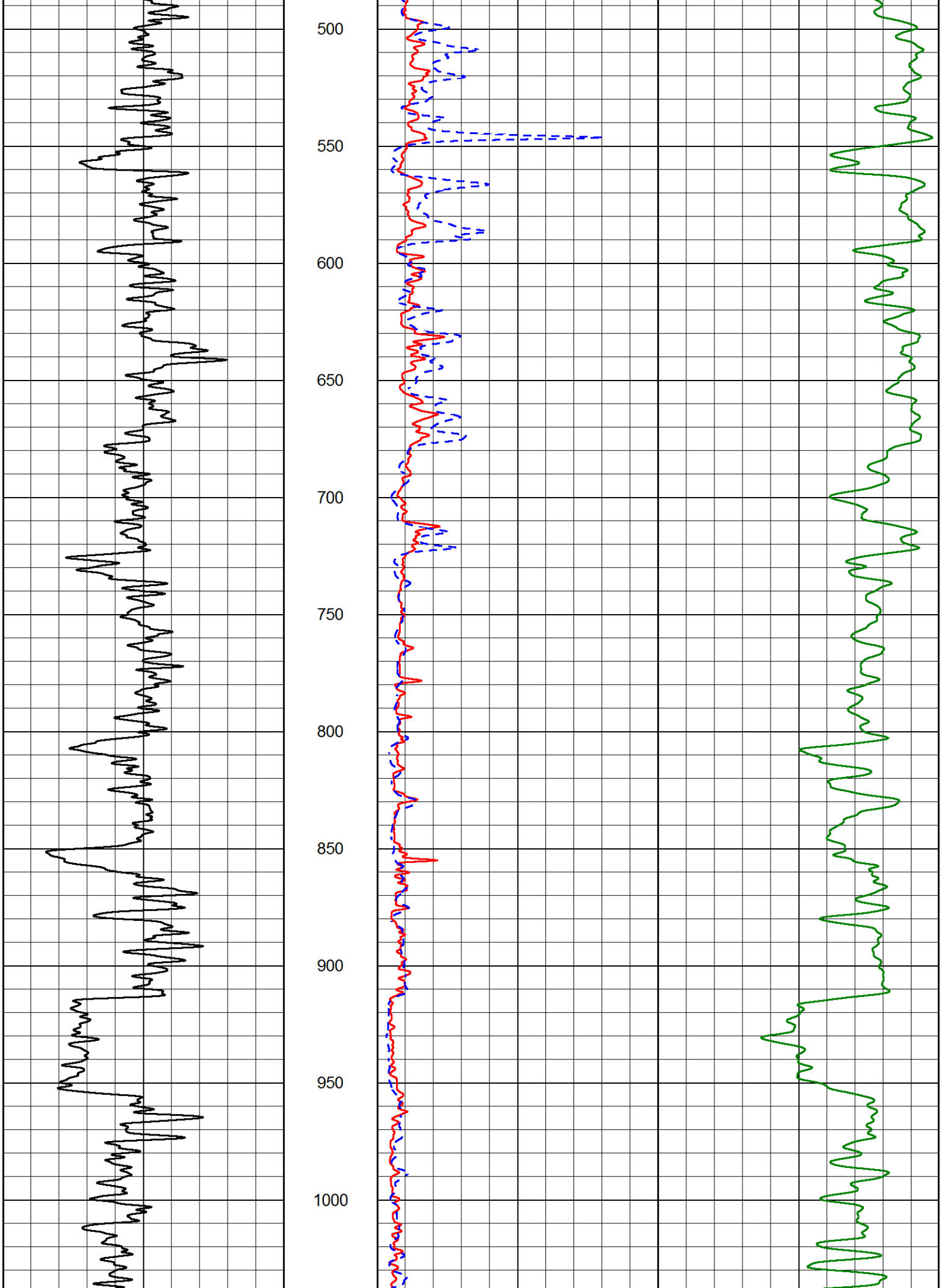
Dataset: kelso_honas_a_2.db: field/well/stackml/pass3.1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in

PIONEER
Pioneer Energy Services

MAIN PASS

Database File	kelso_honas_a_2.db
Dataset Pathname	stackml/pass3.1
Presentation Format	dil2in
Dataset Creation	Sun Aug 27 05:56:23 2017
Charted by	Depth in Feet scaled 1:600

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700
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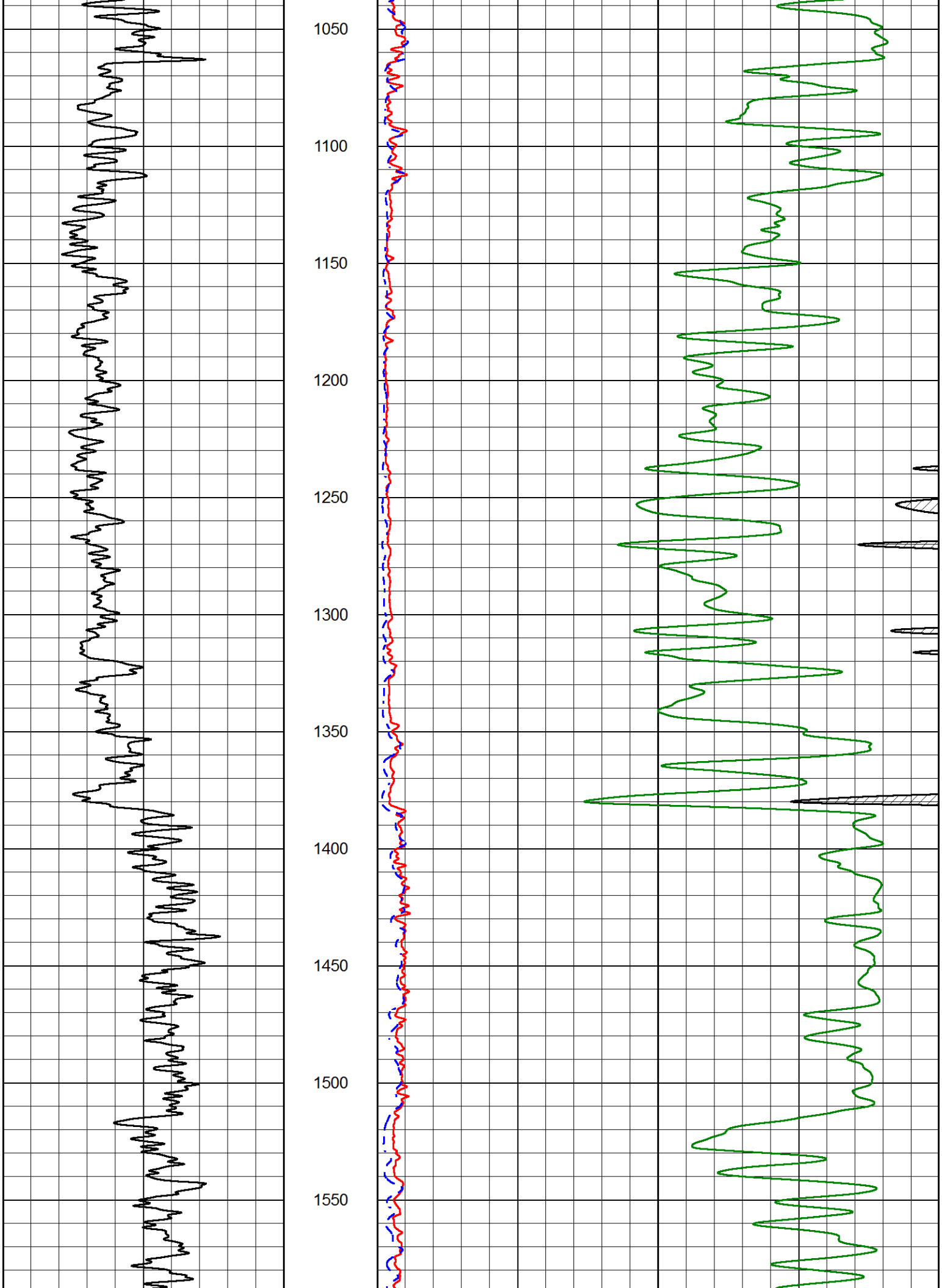
800
850
900
950
1000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1300
1350
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1500
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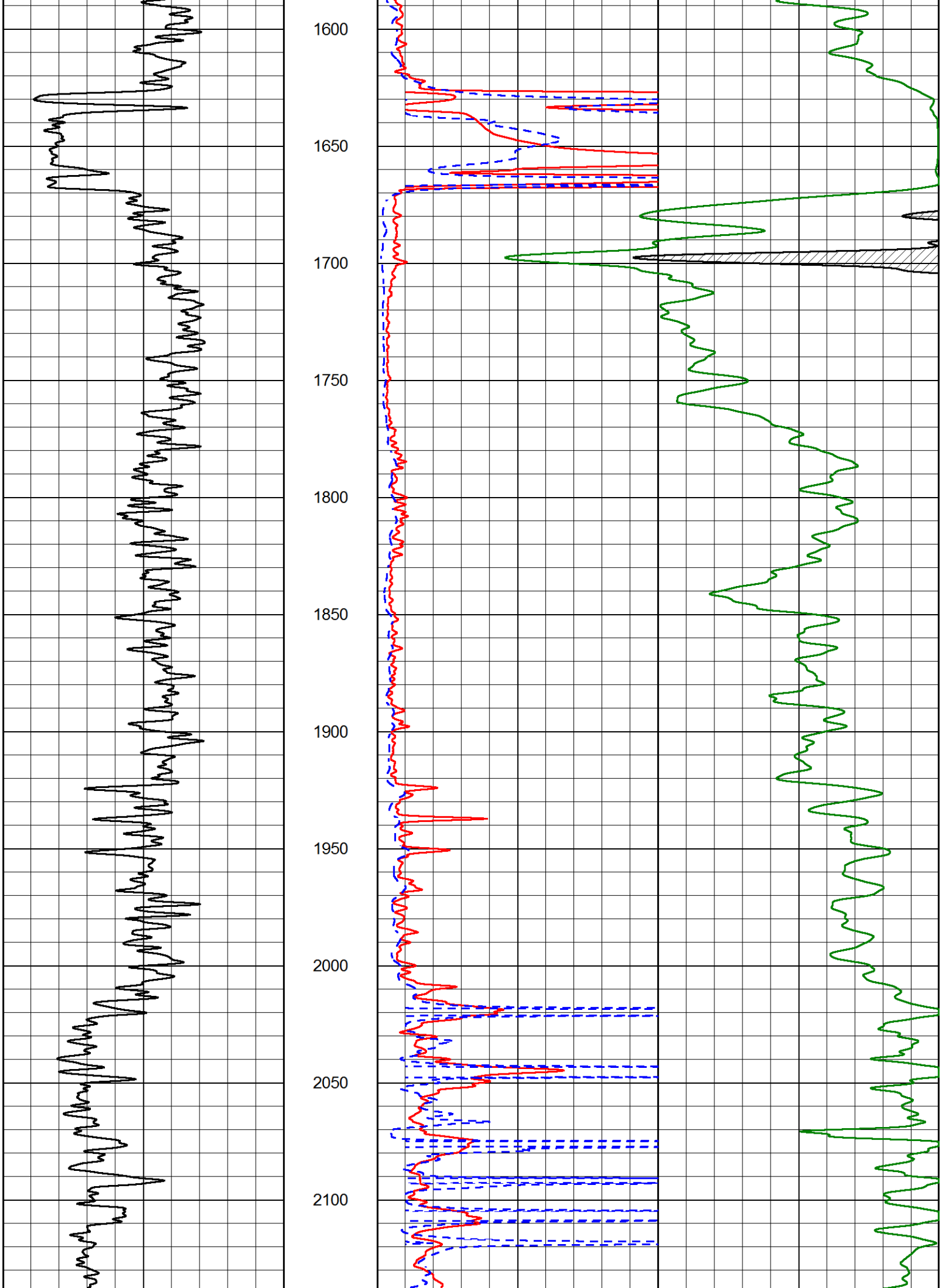
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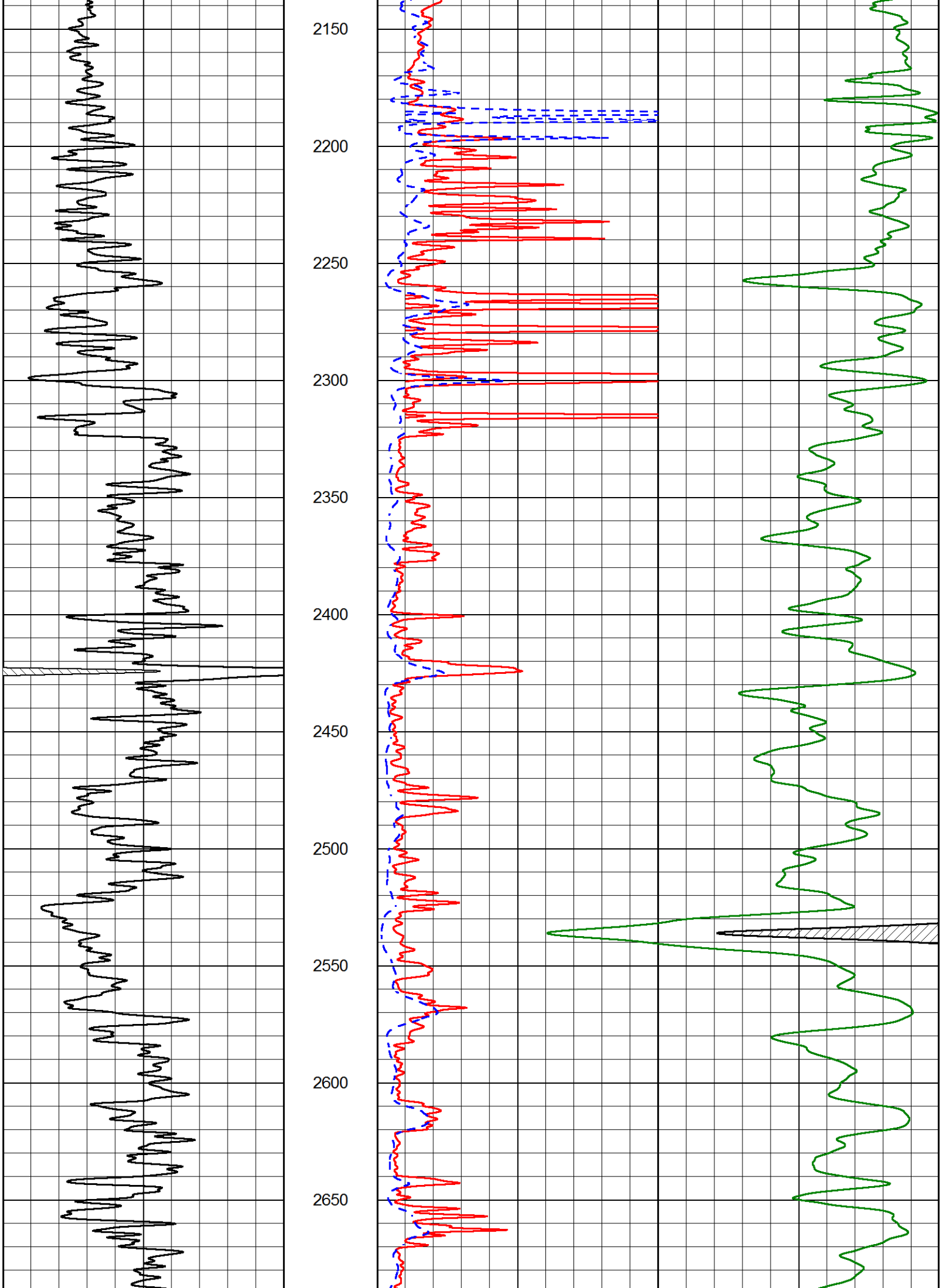
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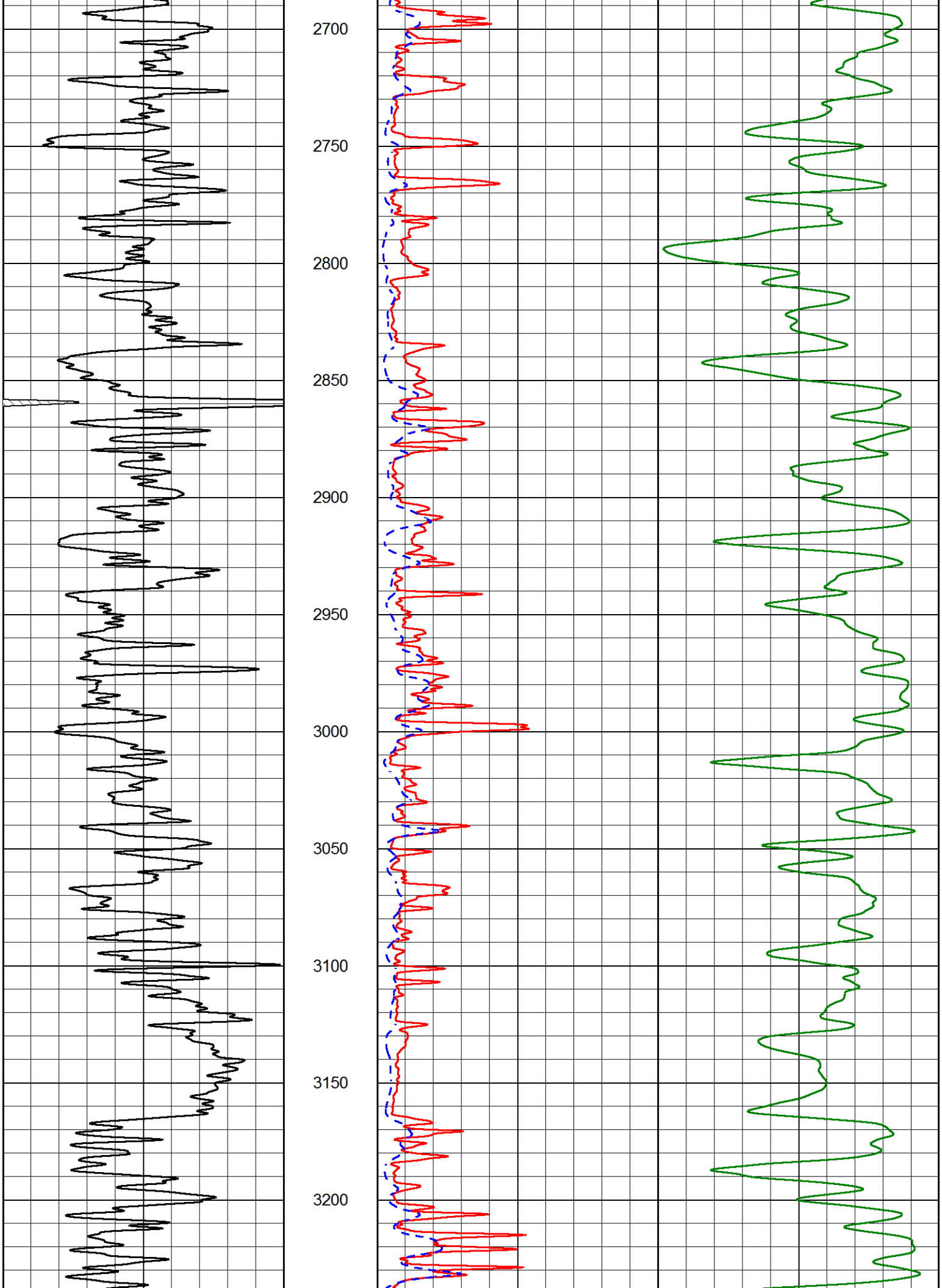
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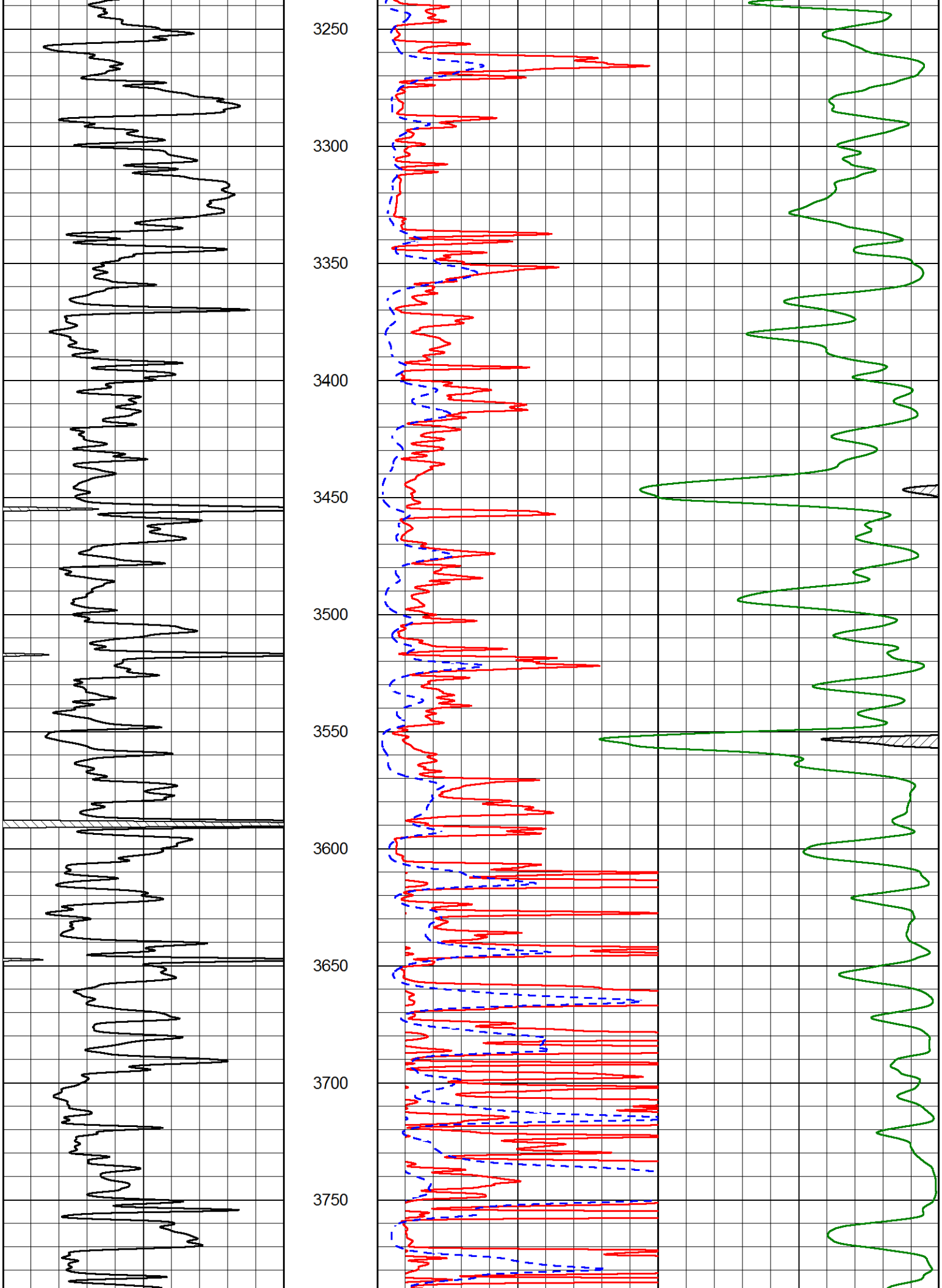
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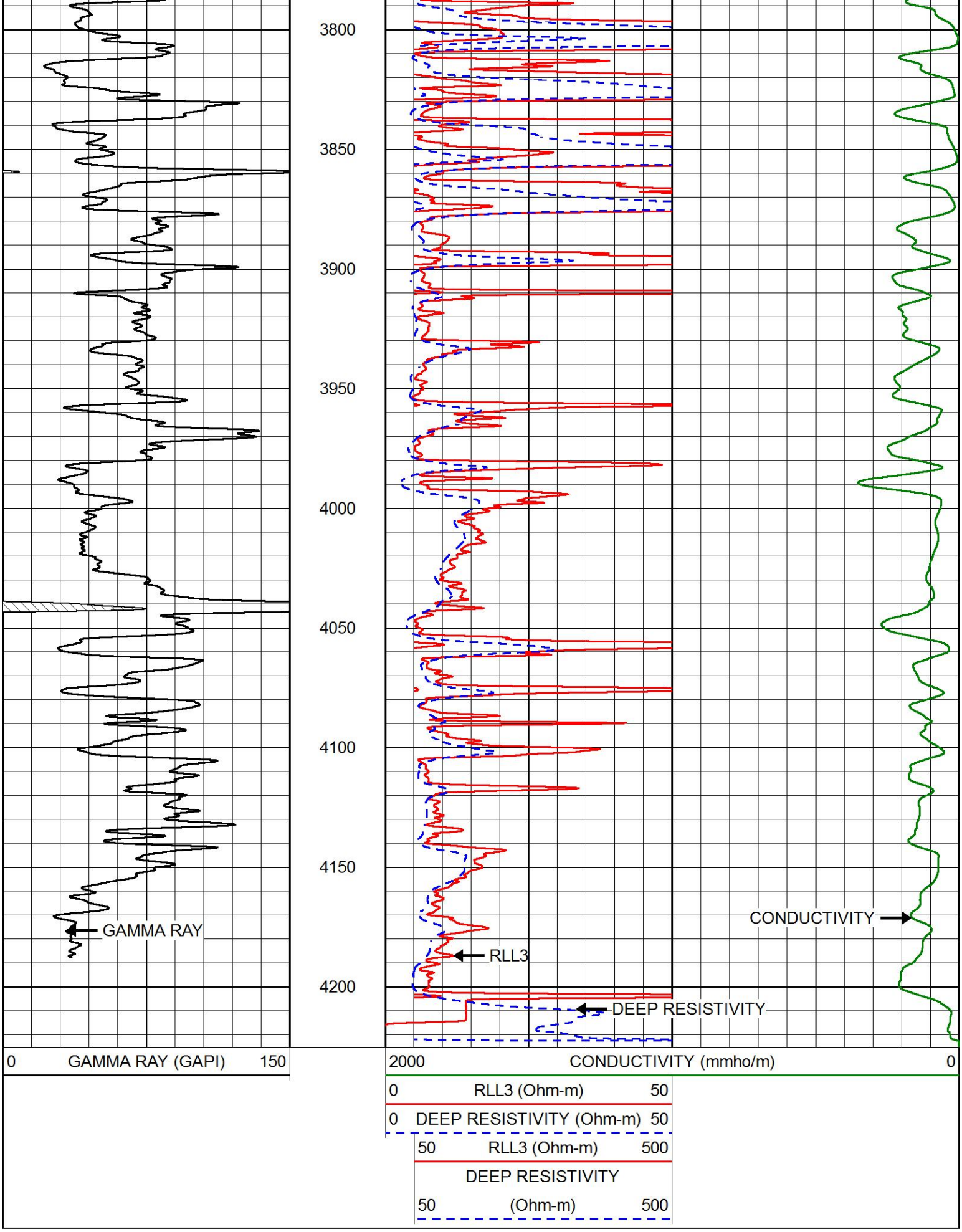
3800
3850
3900
3950
4000
4050
4100
4150
4200
GAMMA RAY
RLL3
DEEP RESISTIVITY
CONDUCTIVITY
0 GAMMA RAY (GAPI) 150
2000 CONDUCTIVITY (mmho/m) 0
0 RLL3 (Ohm-m) 50
0 DEEP RESISTIVITY (Ohm-m) 50
50 RLL3 (Ohm-m) 500
DEEP RESISTIVITY
50 (Ohm-m) 500

MAIN PASS

PIONEER
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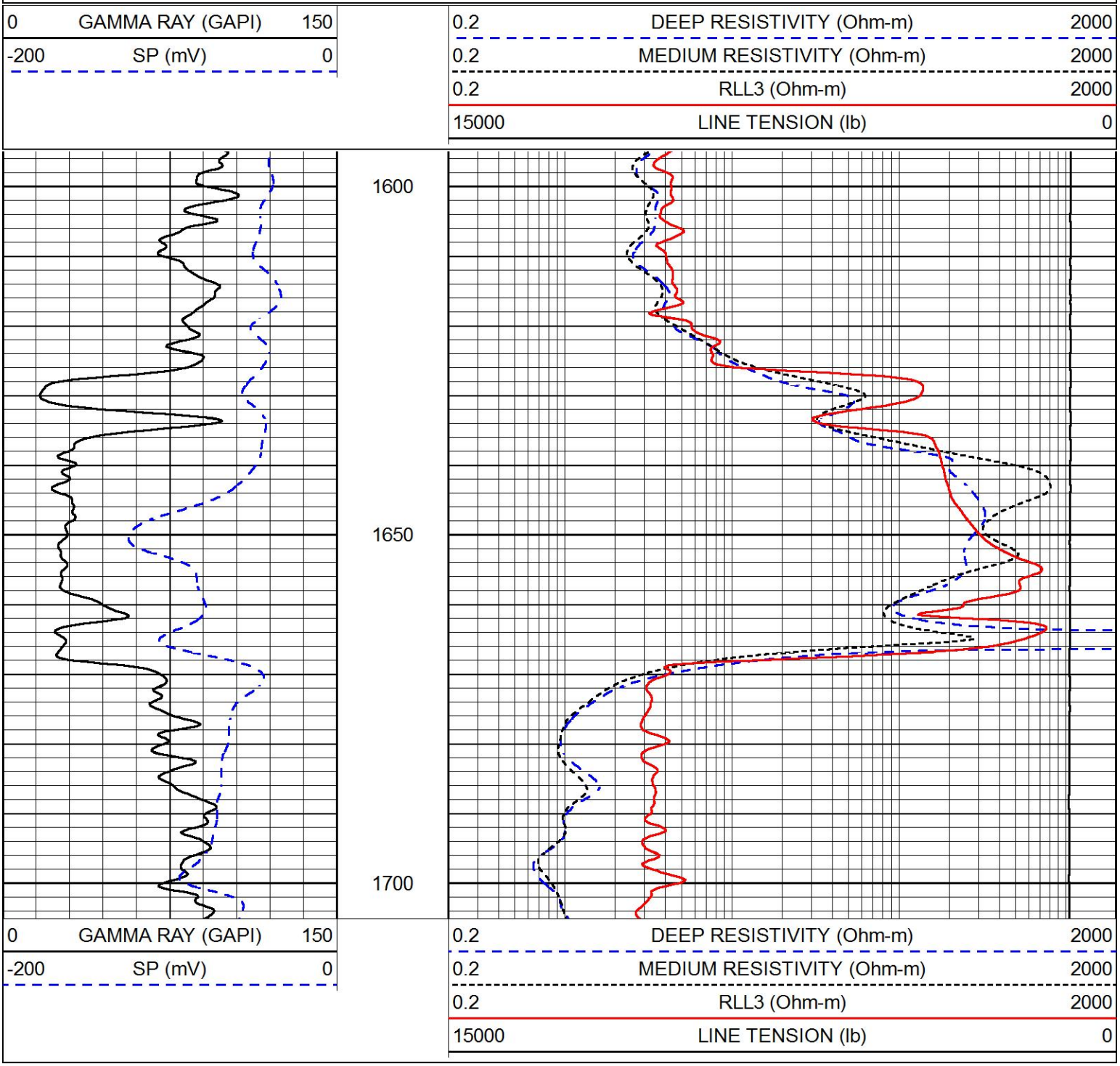
MAIN PASS

Database File	kelso_honas_a_2.db
Dataset Pathname	stackml/pass3.1
Presentation Format	dil
Dataset Creation	Sun Aug 27 05:56:23 2017
Charted by	Depth in Feet scaled 1:240



PIONEER
Pioneer Energy Services

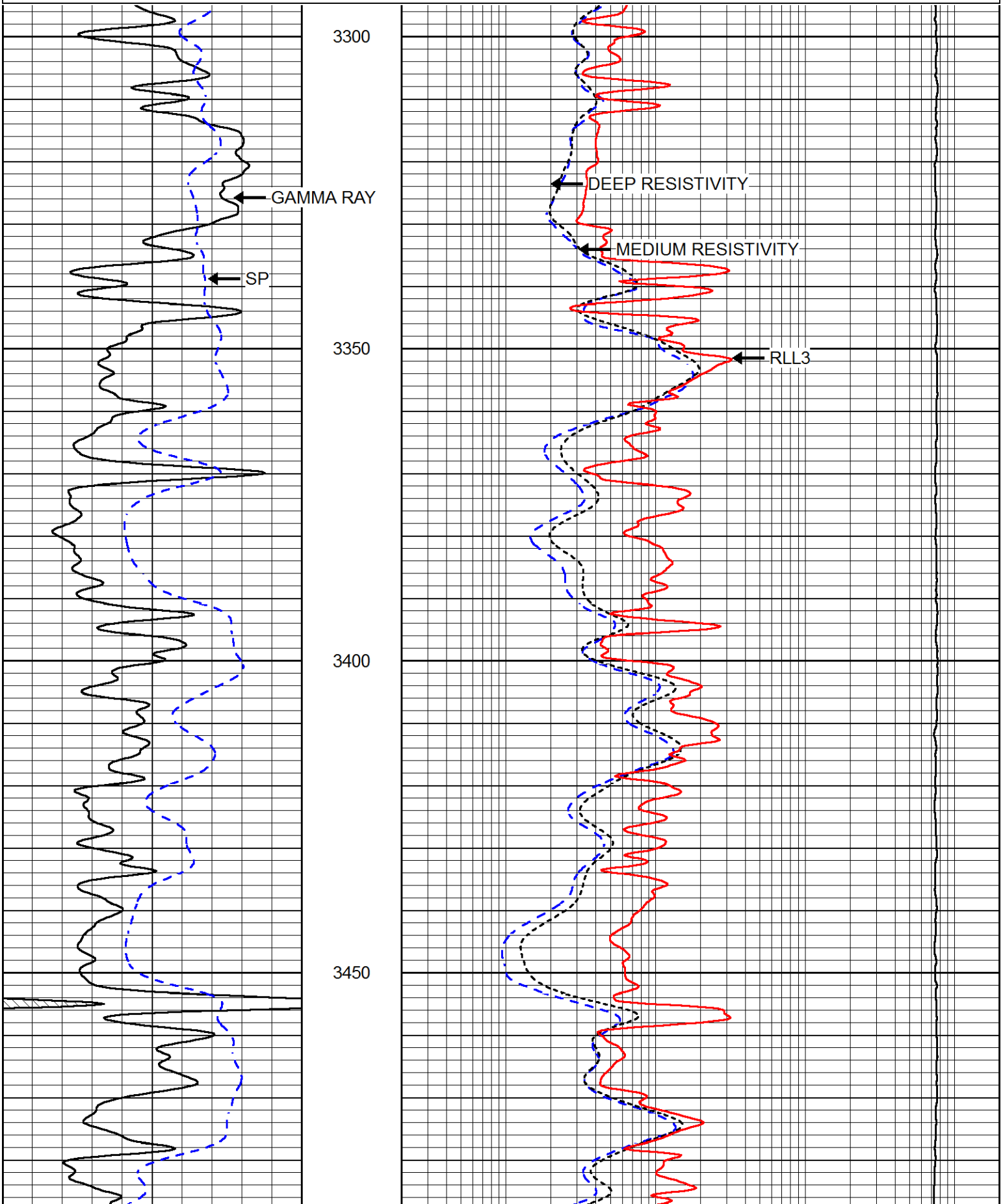
MAIN PASS

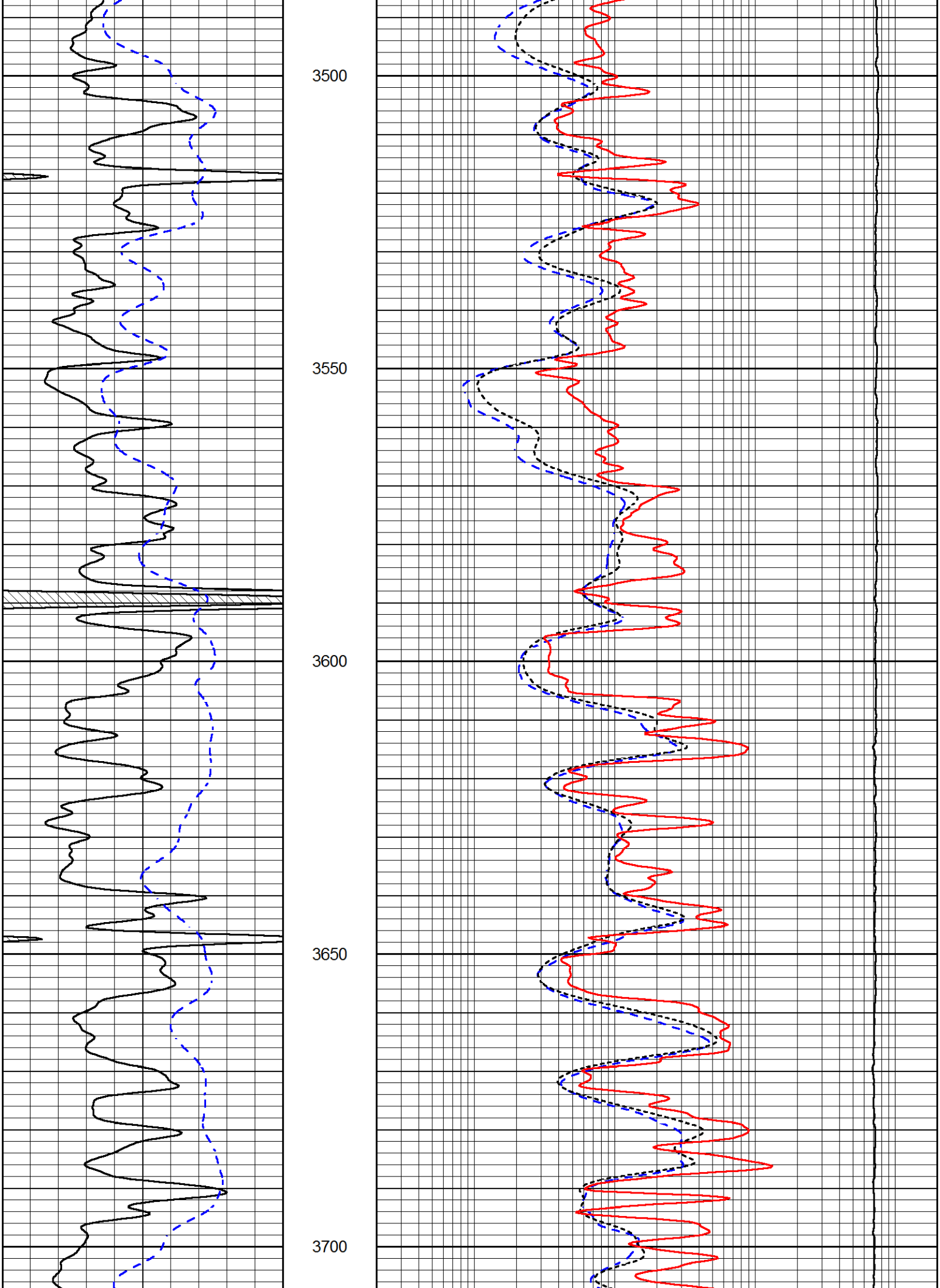
Database File	kelso_honas_a_2.db
Dataset Pathname	stackml/pass3.1
Presentation Format	dil
Dataset Creation	Sun Aug 27 05:56:23 2017

Dataset Creation Sun Aug 27 05:56:23 2017
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-200	SP (mV)	0

0.2	DEEP RESISTIVITY (Ohm-m)	2000
0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
15000	LINE TENSION (lb)	0

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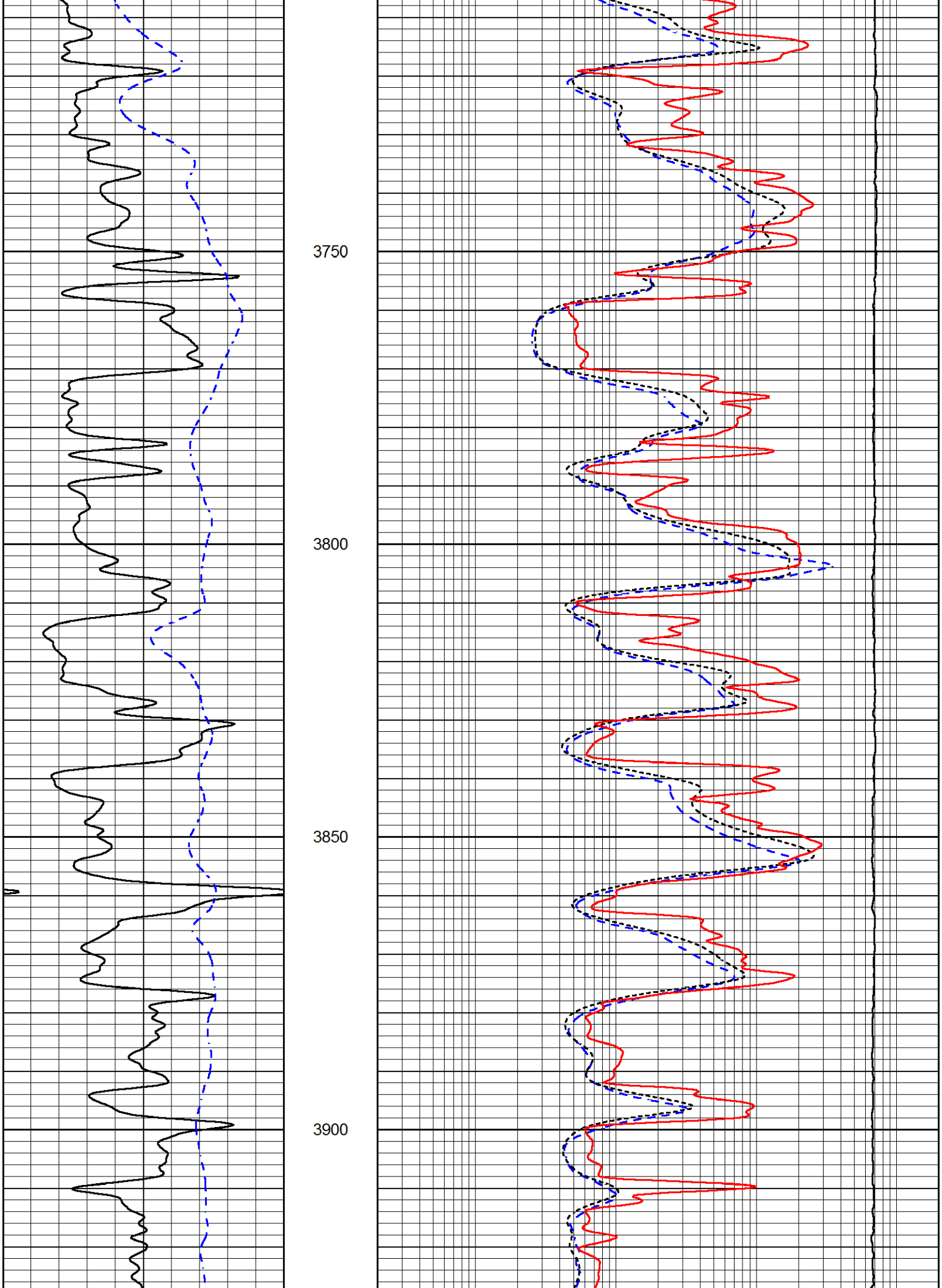
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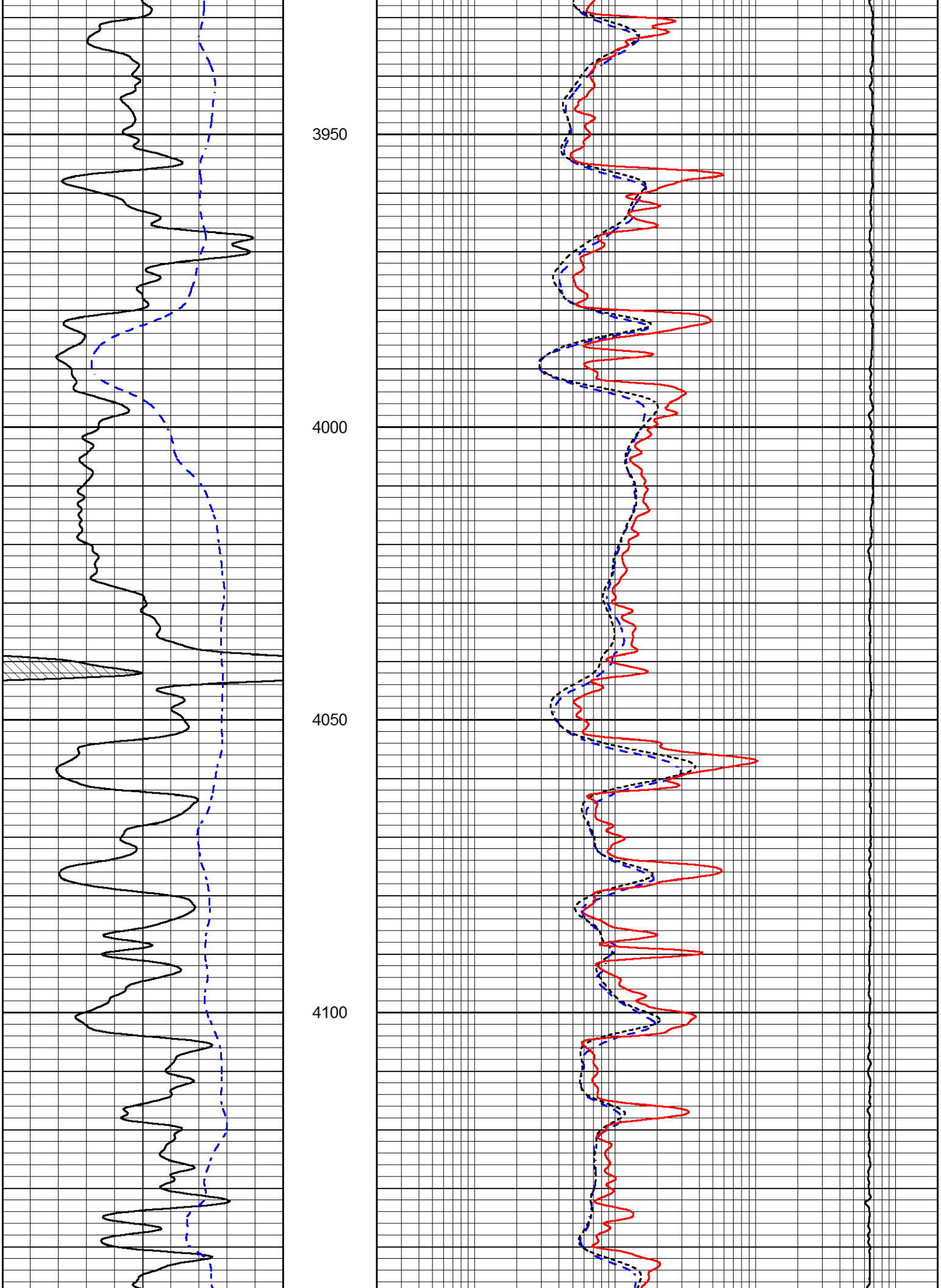
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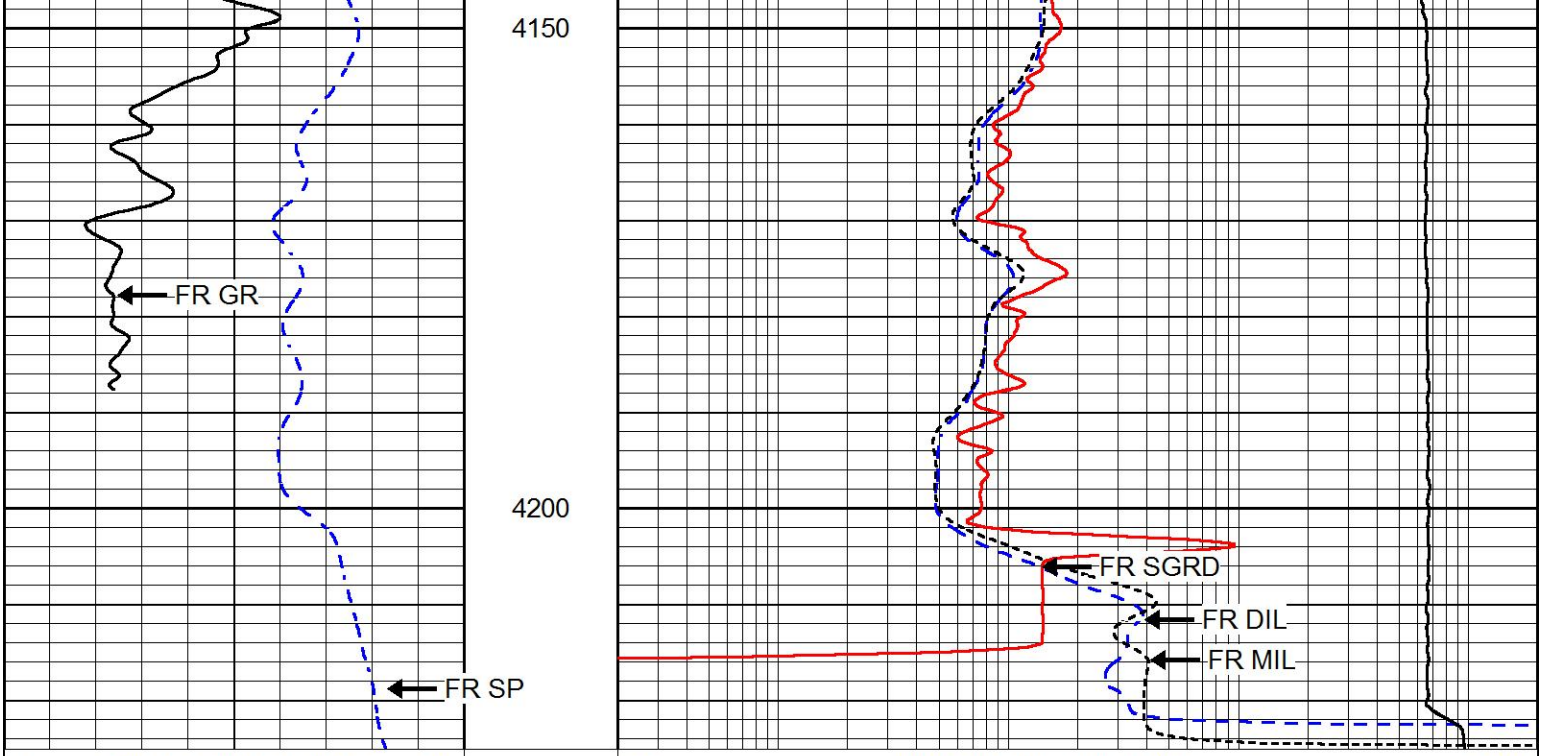
4000
4050
4100



0	GAMMA RAY (GAPI)	150
-200	SP (mV)	0

0.2	DEEP RESISTIVITY (Ohm-m)	2000
0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
15000	LINE TENSION (lb)	0

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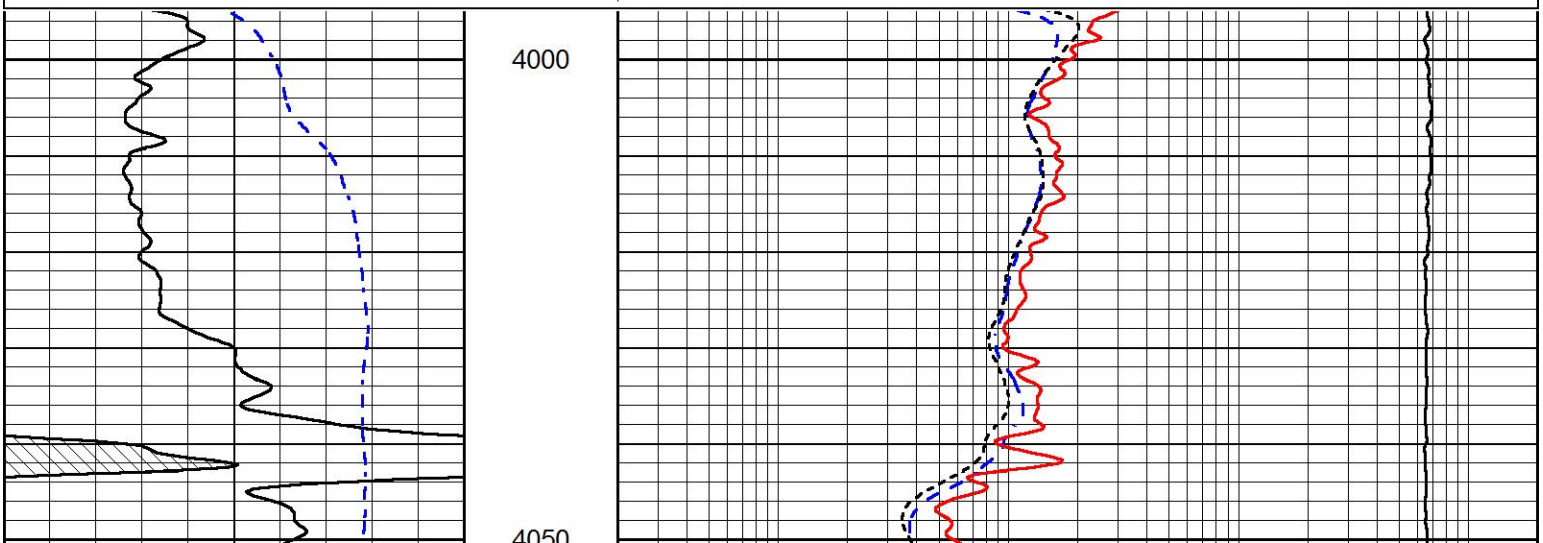
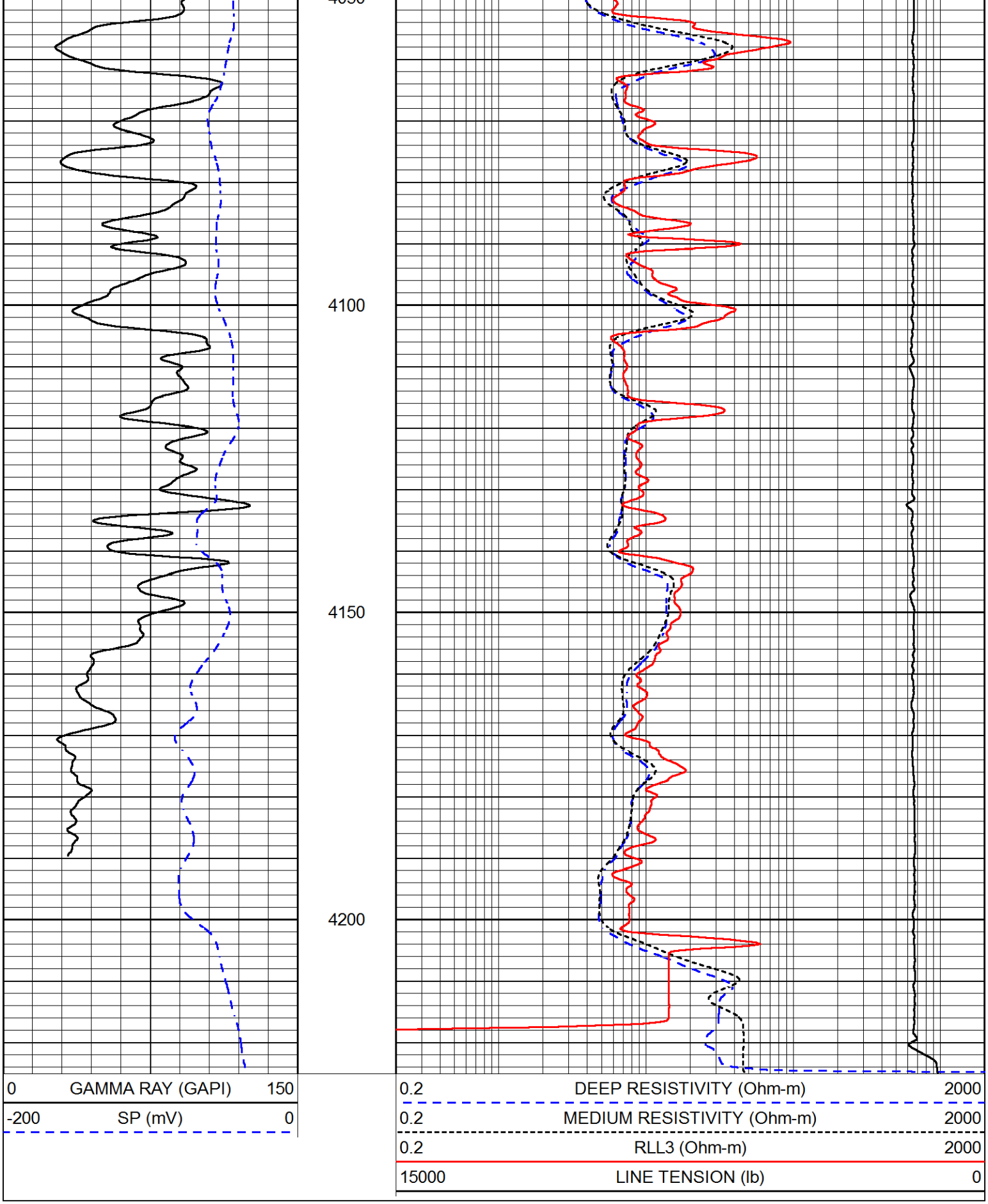
REPEAT SECTION

Database File	kelso_honas_a_2.db
Dataset Pathname	stackml/pass2.1
Presentation Format	dil
Dataset Creation	Sun Aug 27 05:57:24 2017
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-200	SP (mV)	0

0.2	DEEP RESISTIVITY (Ohm-m)	2000
0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
15000	LINE TENSION (lb)	0





Calibration Report

Database File	kelso_honas_a_2.db
Dataset Pathname	stackml/pass3.1
Dataset Creation	Sun Aug 27 05:56:23 2017

Dual Induction Calibration Report

Dual Induction Calibration Report

Serial-Model: 1987-M&W
Calibration Performed: Tue Apr 11 16:07:38 2017

Loop:	Readings Air	Readings Loop	References Air	References Loop		Results Gain	Results Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.530	-36.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.440	-110.500

Microlog Calibration Report

Serial-Model: PSI-02-PSI STKBL ML
Performed: Fri Jun 23 00:25:19 2017

	Readings Zero	Readings Cal	References Zero	References Cal		Results m	Results b
Normal	0.0031	0.0043	0.0000	10.0000	Ohm-m	18000.0000	0.0000
Inverse	0.0000	0.0013	0.0000	10.0000	Ohm-m	20000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1560	-131.4500

Compensated Density Calibration Report

Serial-Model: 168-986-M&W
Source / Verifier: /
Master Calibration Performed: Tue Apr 11 16:07:47 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.675	g/cc	859.57	3020.22	cps

Spine Angle = 74.61 Density/Spine Ratio = 0.523

	Size		Reading
Small Ring	4.00	in	1.03
Large Ring	14.00	in	1.23

Compensated Neutron Calibration Report

Serial Number: tk10-MW
Tool Model: M&W
Calibration Performed: Wed Nov 16 11:21:36 2016

Detector	Readings		Target		Normalization
Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

Gamma Ray Calibration Report

Serial Number: 89-M&W
Tool Model: M&W
Calibration Performed: Tue Apr 11 16:08:01 2017

Calibrator Value:	1000.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	6.2	cps
Sensitivity:	0.5200	GAPI/cps

PIONEER
Pioneer Energy Services

Company	MIKE KELSO OIL, INC.
Well	HONAS A NO.2
Field	WILDCAT
County	TREGO
State	KANSAS

PIONEER
Pioneer Energy Services

MICRORESISTIVITY LOG

Company MIKE KELSO OIL, INC.
Well HONAS A NO.2
Field WILDCAT
County TREGO State KANSAS
Location: API # : 15-195-23028-00-00
1330' FNL & 700' FEL
SEC 21 TWP 14S RGE 22W

Other Services
CNL/CDL
DIL

Elevation
K.B. 2228'
D.F. N/A
G.L. 2221'

Company MIKE KELSO OIL, INC.
Well HONAS A NO.2
Field WILDCAT
County TREGO
State KANSAS

Permanent Datum	GROUND LEVEL	Elevation 2221'	
Log Measured From	KELLY BUSHING		
Drilling Measured From	KELLY BUSHING		
Date	8/27/2017		
Run Number	ONE		
Depth Driller	4225'		
Depth Logger	4220'		
Bottom Logged Interval	4219'		
Top Log Interval	3300'		
Casing Driller	8.625" @ 250'		
Casing Logger	248'		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Salinity,ppm CL	10,500		
Density / Viscosity	9.7 56		
pH / Fluid Loss	9.0 8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.35 @ 62		
Rmf @ Meas. Temp	.26 @ 62		
Rmc @ Meas. Temp	.47 @ 62		
Source of Rmf / Rmc	CHARTS		
Rm @ BHT	.18 @ 118		
Operating Rig Time	2 1/2 HOURS		
Max Rec. Temp. F	118 DEG/F		
Equipment Number	108		
Location	HAYS		
Recorded By	J. HENRICKSON		
Witnessed By	PAT DEENIHAN	MIKE KELSO	

<<< Fold Here >>>

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

OGALLAH EXIT I 70
SOUTH TO CURVE, 3 SOUTH, 1 WEST, SOUTH INTO
(ROAD TO COVE 1 AT CEDAR BLUFF)

Log Measured From: KELLY BUSHING 7 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneeres.com 785-625-3858

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: J. HENRICKSON	Primary Witness: PAT DEENIHAN
Operator:	Secondary Witness: MIKE KELSO
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

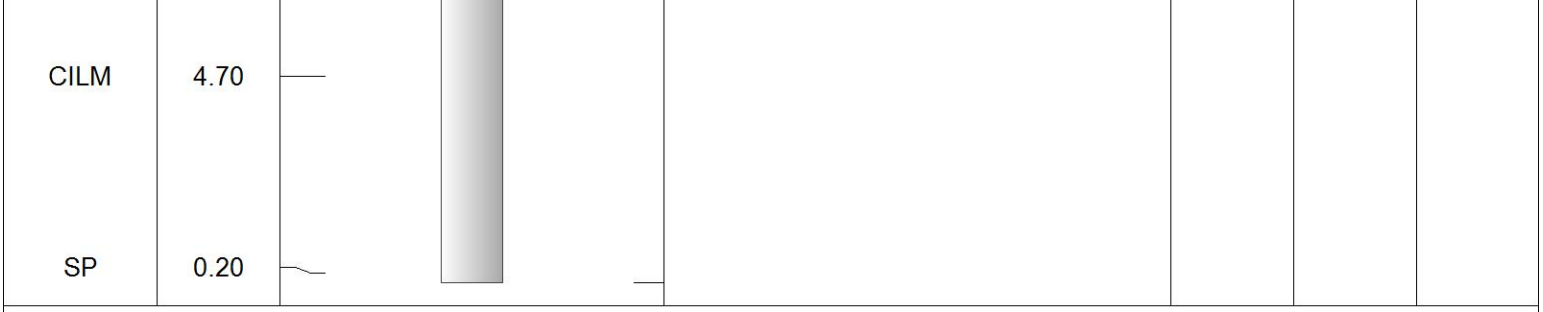
DatabaseC:\ProgramData\Warrior\Data\kelso_honas_a_2.db
Dataset field/well/stackml/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	118	5.5	0	1	2	2.71

NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	-90	61	Off	4220

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
GR	40.58		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC	37.48		CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	36.73					
LSD	28.43		CDL-M&W (168-986)	8.50	4.00	250.00
DCAL	28.42					
SSD	27.93					
			ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
MCAL	19.83					
MI	19.83					
MN	19.83					
RLL3	15.80					
RLL3F	15.79					
			DIL-M&W (1987)	18.50	3.50	220.00
CILD	8.00					



Dataset: kelso_honas_a_2.db: field/well/stackml/pass3.1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in

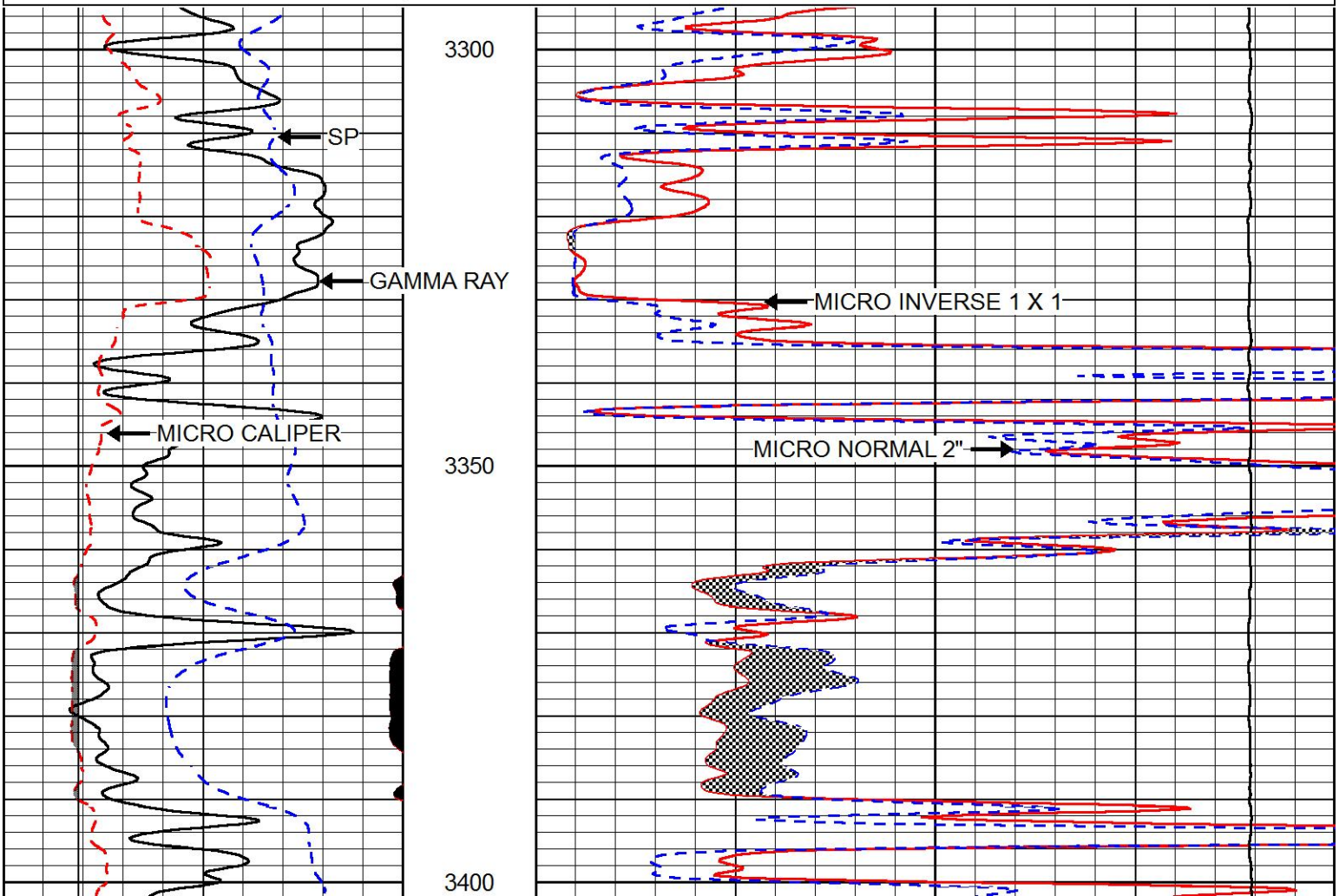
PIONEER
Pioneer Energy Services

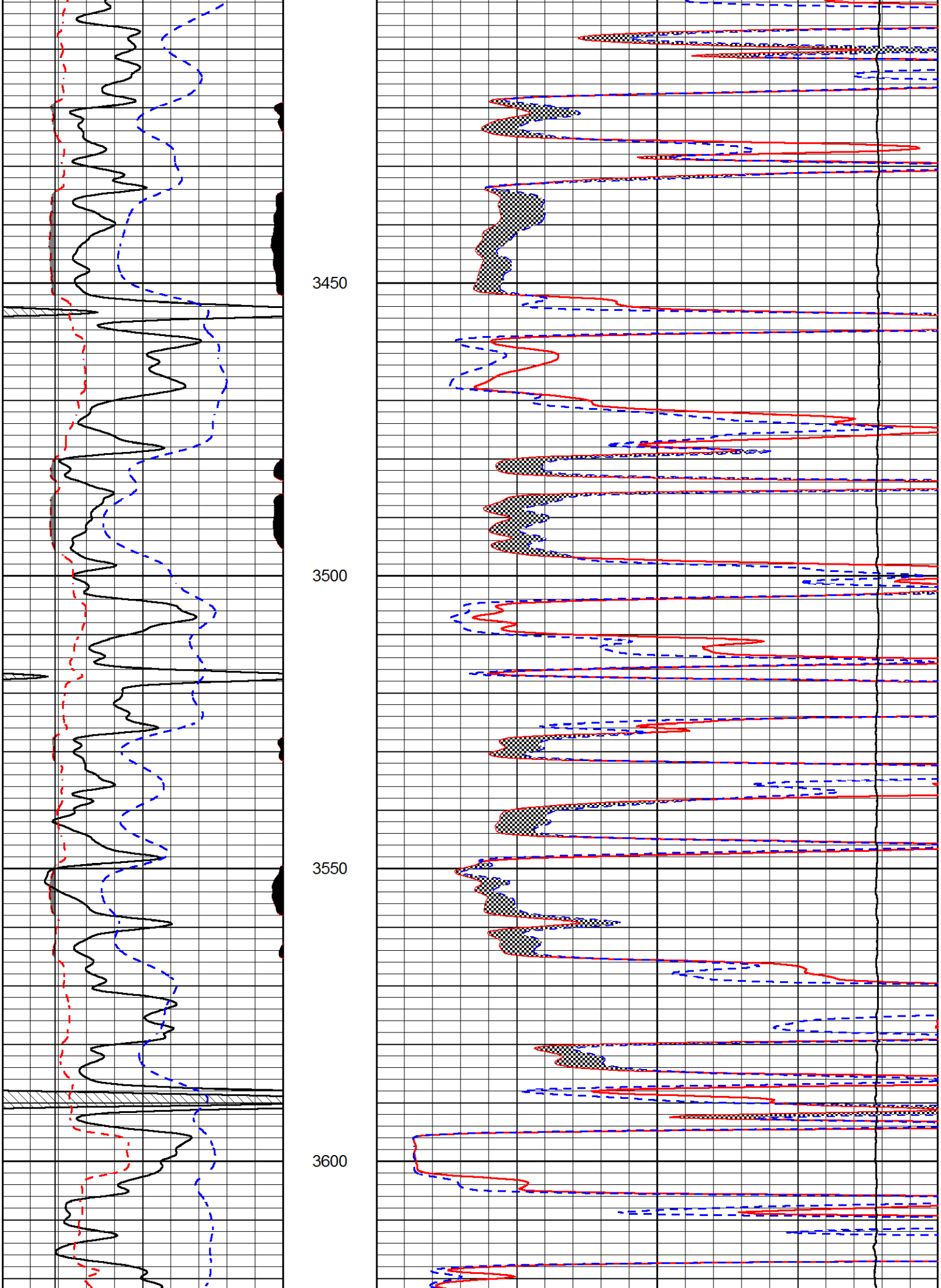
MAIN PASS

Database File	kelso_honas_a_2.db
Dataset Pathname	stackml/pass3.1
Presentation Format	micro
Dataset Creation	Sun Aug 27 05:56:23 2017
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0

0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0

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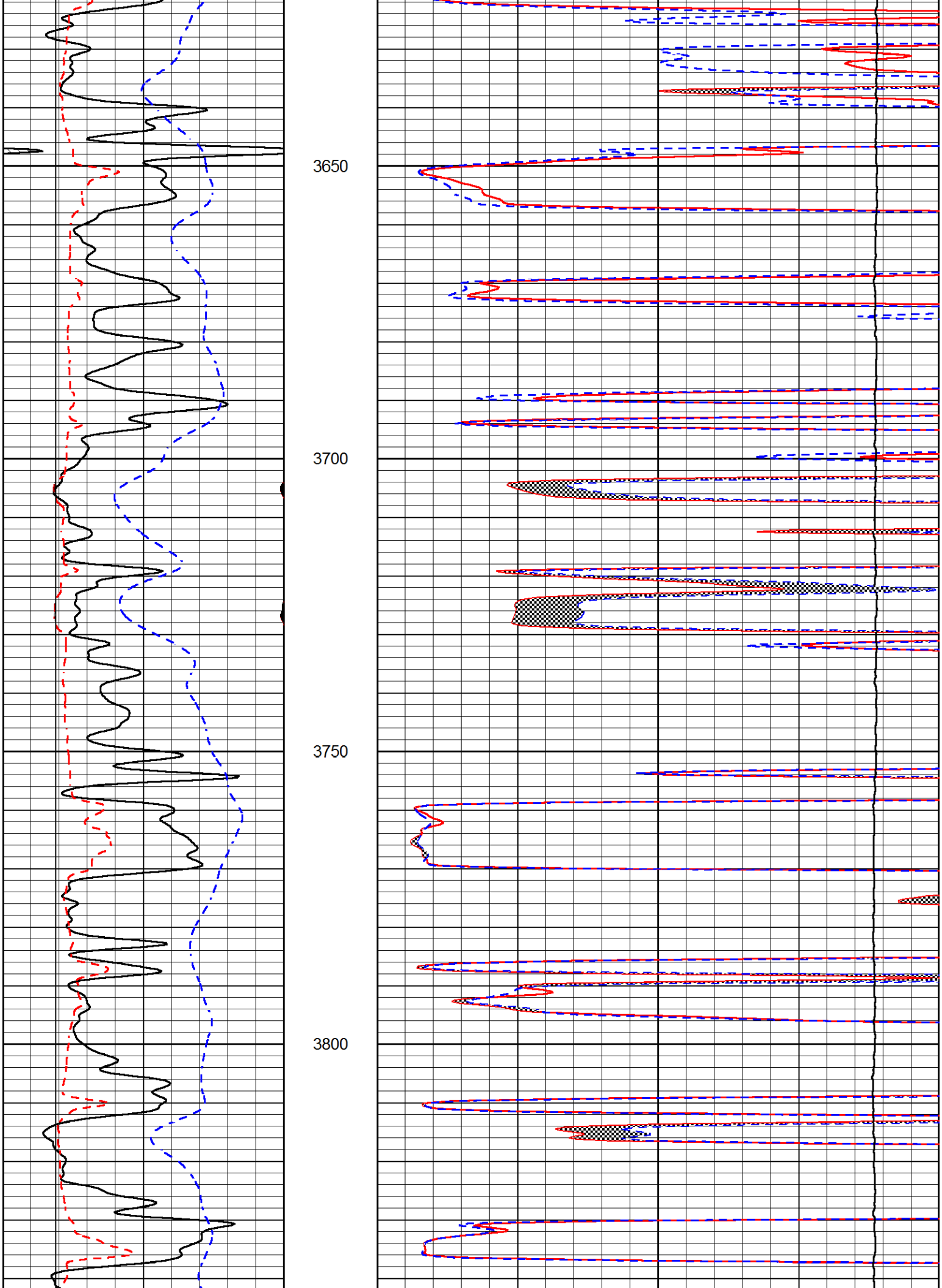
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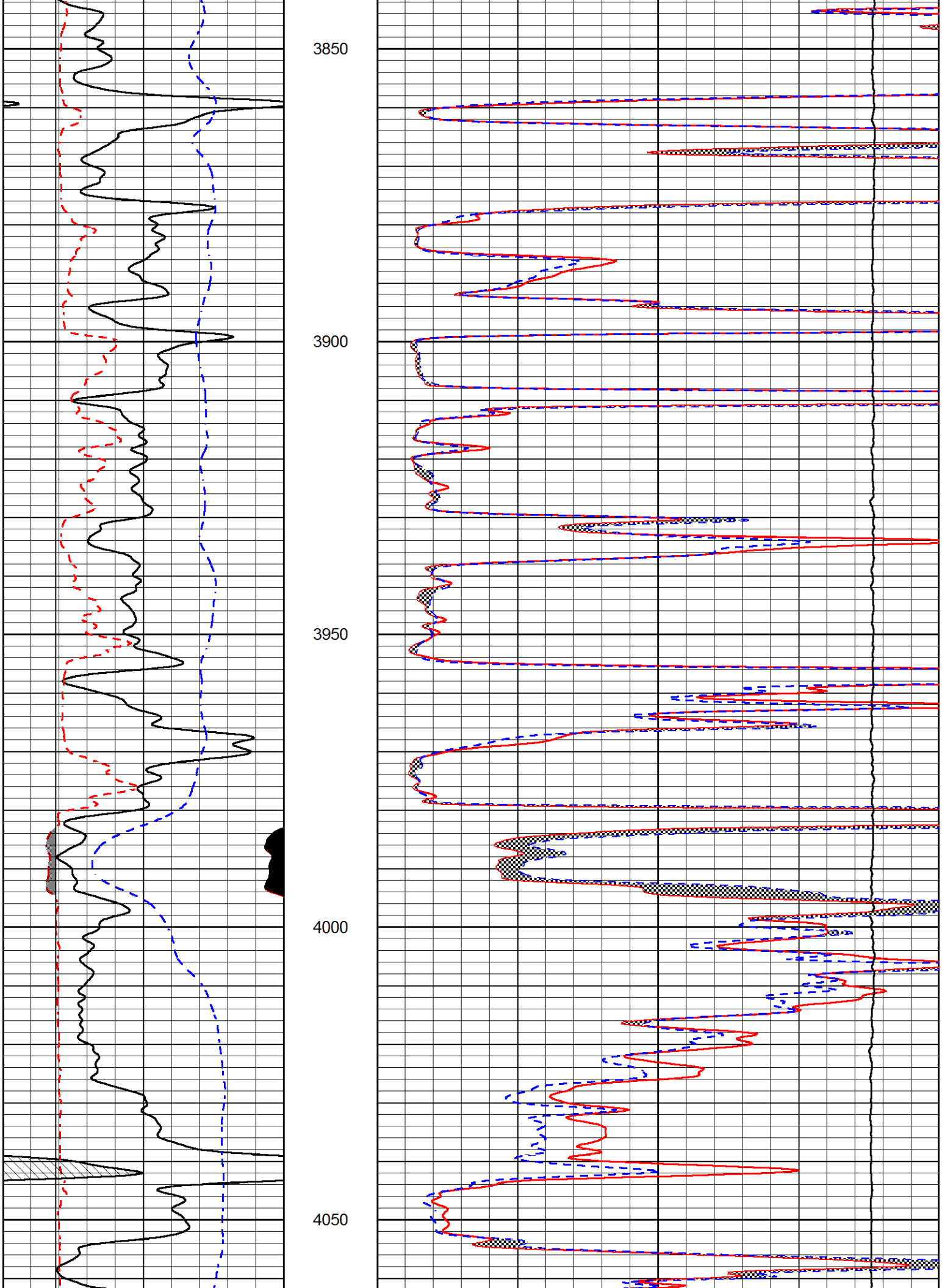
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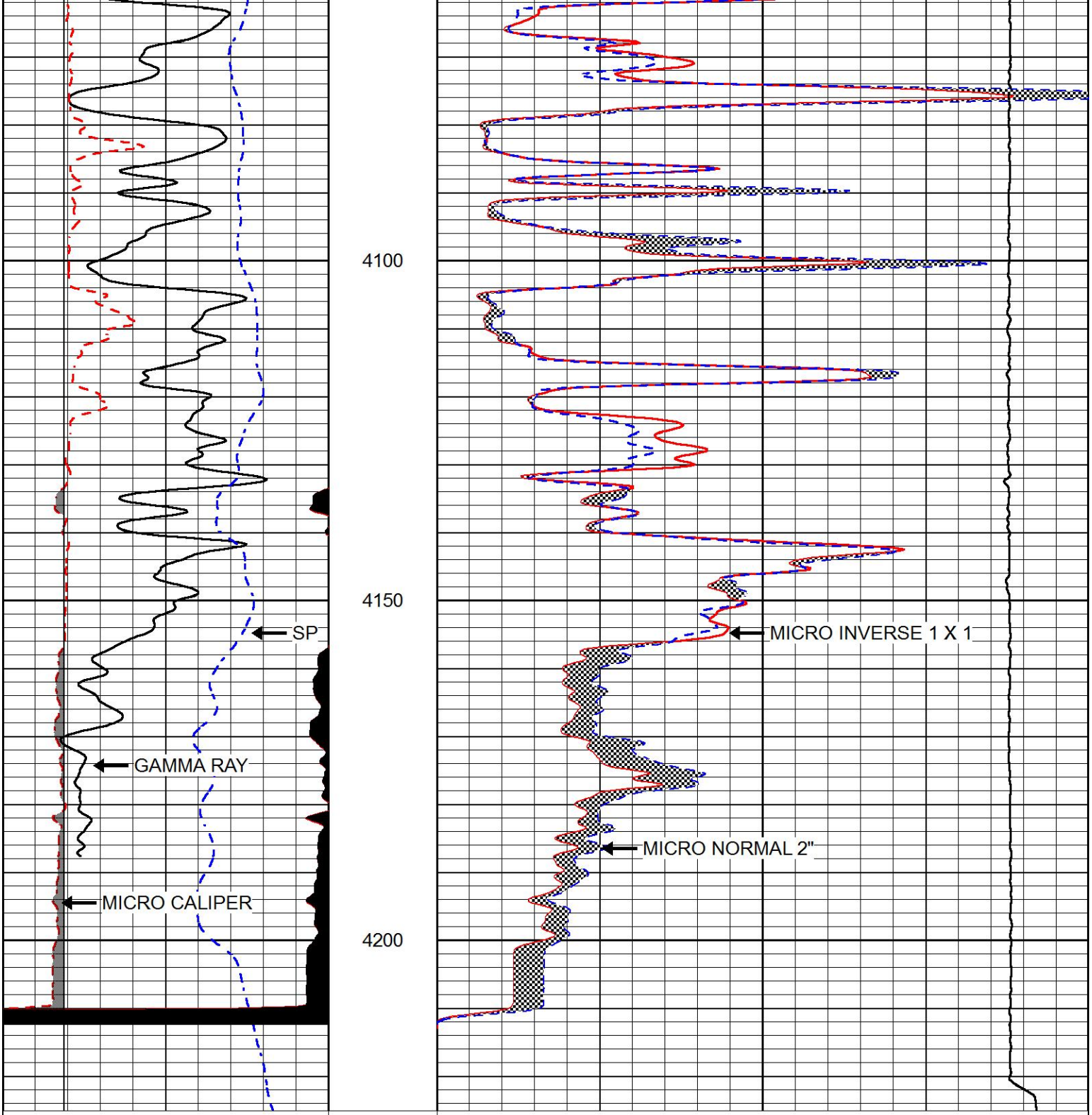


0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0

0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0

PIONEER
Pioneer Energy Services

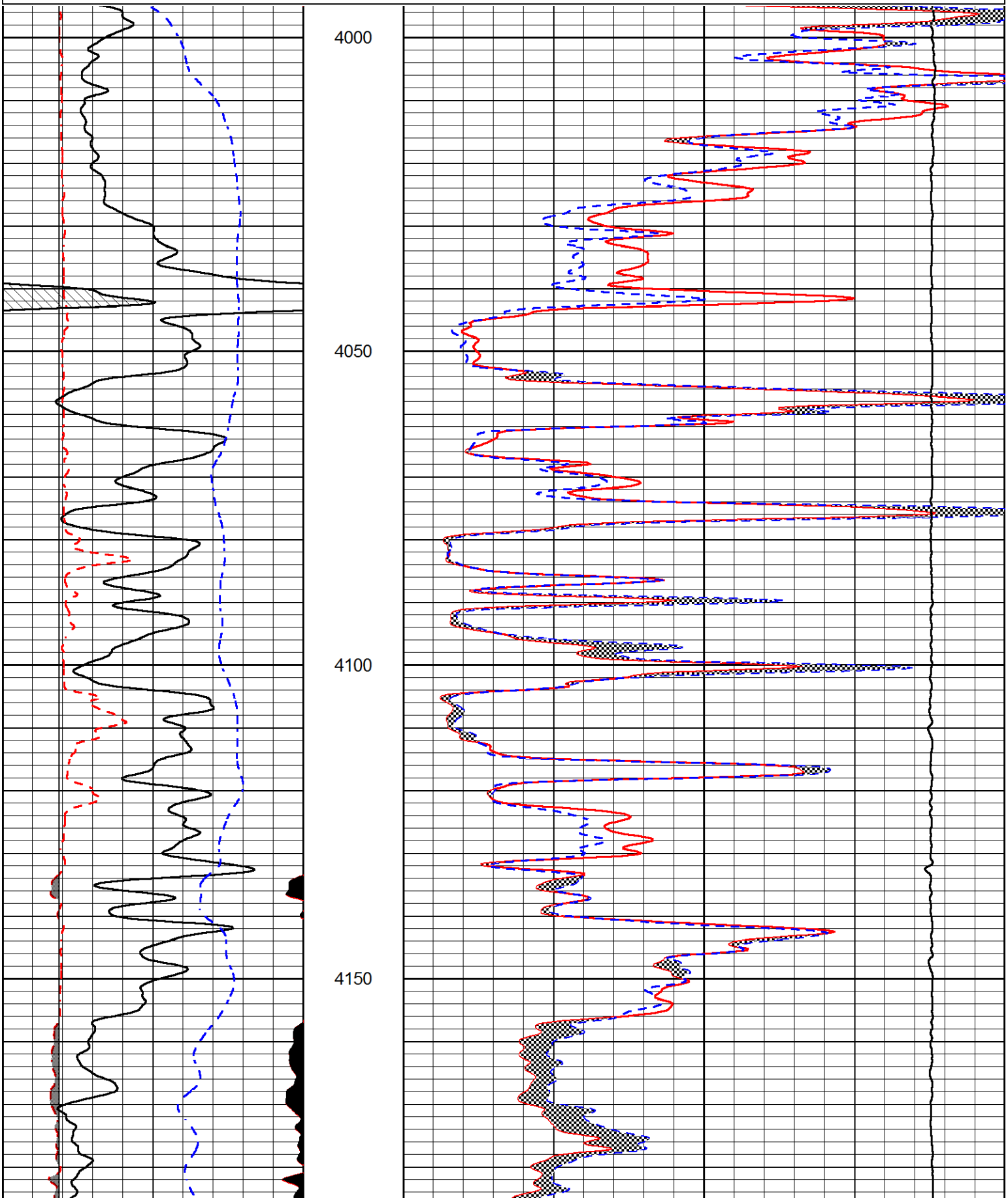
REPEAT SECTION

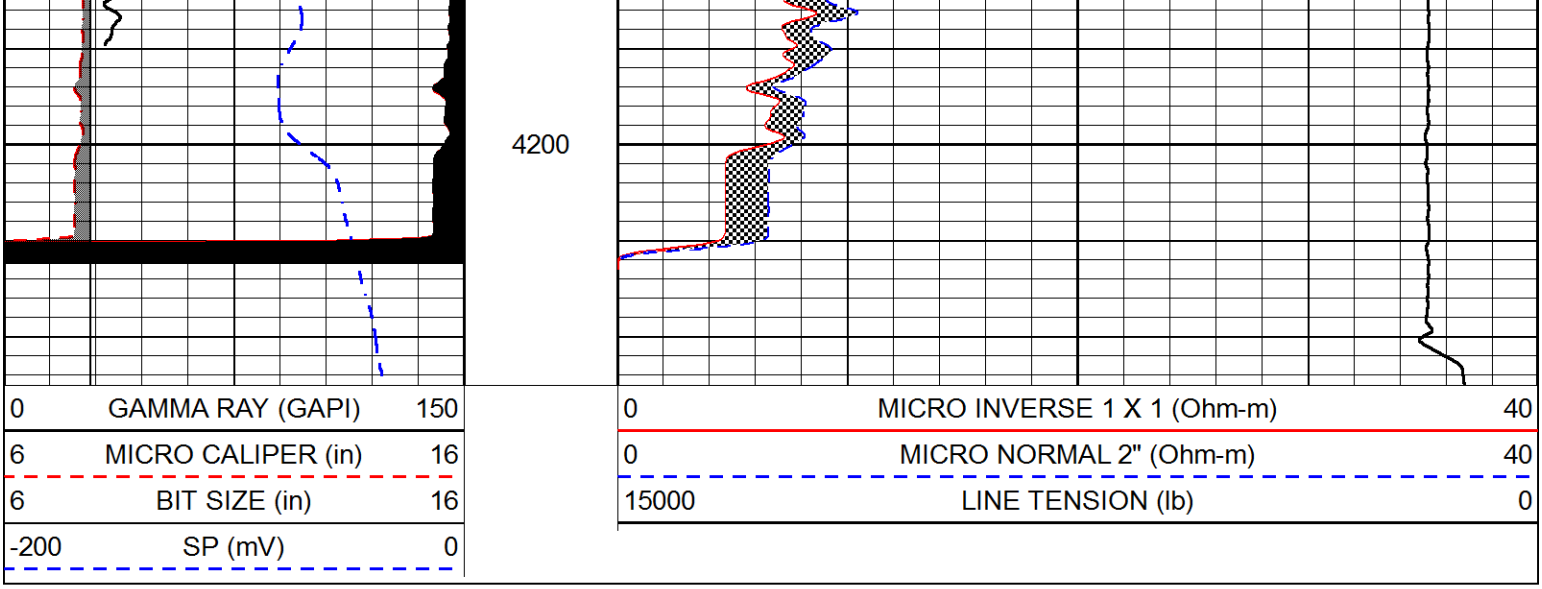
Database File	kelso_honas_a_2.db
Dataset Pathname	stackml/pass2.1
Presentation Format	micro

Dataset Creation	Sun Aug 27 05:57:24 2017
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0

0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0





Calibration Report

Database File	kelso_honas_a_2.db
Dataset Pathname	stackml/pass3.1
Dataset Creation	Sun Aug 27 05:56:23 2017

Dual Induction Calibration Report

Serial-Model:	1987-M&W
Calibration Performed:	Tue Apr 11 16:07:38 2017

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.530	-36.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.440	-110.500

Microlog Calibration Report

Serial-Model:	PSI-02-PSI STKBL ML
Performed:	Fri Jun 23 00:25:19 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0031	0.0043	0.0000	10.0000	Ohm-m	18000.0000	0.0000
Inverse	0.0000	0.0013	0.0000	10.0000	Ohm-m	20000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1560	-131.4500

Compensated Density Calibration Report

Serial-Model:	168-986-M&W
Source / Verifier:	/
Master Calibration Performed:	Tue Apr 11 16:07:47 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.675	g/cc	859.57	3020.22	cps

Spine Angle = 74.61 Density/Spine Ratio = 0.523

	Size		Reading
Small Ring	4.00	in	1.03
Large Ring	14.00	in	1.23

Compensated Neutron Calibration Report

Serial Number: tk10-MW
Tool Model: M&W
Calibration Performed: Wed Nov 16 11:21:36 2016

Detector	Readings		Target		Normalization
Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

Gamma Ray Calibration Report

Serial Number: 89-M&W
Tool Model: M&W
Calibration Performed: Tue Apr 11 16:08:01 2017

Calibrator Value: 1000.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 6.2 cps

Sensitivity: 0.5200 GAPI/cps

PIONEER
Pioneer Energy Services

Company MIKE KELSO OIL, INC.
Well HONAS A NO.2
Field WILDCAT
County TREGO
State KANSAS

COPELAND Acid & Cement

TREATMENT REPORT

Acid Stage No. _____

Date 8/18/2017 District G.B. F.O. No. C45578

Company Mike Kelso Oil

Well Name & No. Honas A-2

Location _____ Field _____

County Trego State KS

Casing: Size 8 5/8" Type & Wt. _____ Set at _____ ft.

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Liner: Size _____ Type & Wt. _____ Top at _____ ft. Bottom at _____ ft.

Cemented: Yes Perforated from _____ ft. to _____ ft.

Tubing: Size & Wt. _____ Swung at _____ ft.

Perforated from _____ ft. to _____ ft.

Open Hole Size _____ T.D. _____ ft. P.B. to _____ ft.

Type Treatment:	Amt.		Type Fluid	Sand Size	Pounds of Sand
Bkdown		Bbl./Gal.			
		Bbl./Gal.			
		Bbl./Gal.			
		Bbl./Gal.			
Flush		Bbl./Gal.			

Treated from _____ ft. to _____ ft. No. ft. 0

from _____ ft. to _____ ft. No. ft. 0

from _____ ft. to _____ ft. No. ft. 0

Actual Volume of Oil / Water to Load Hole: _____ Bbl./Gal.

Pump Trucks. No. Used: Std. 365 Sp. _____ Twin _____

Auxiliary Equipment 360/310

Personnel Nathan-Tim-Greg

Auxiliary Tools _____

Plugging or Sealing Materials: Type _____

_____ Gals. _____ lb.

Company Representative Mike K. **Treater** Nathan W.

TIME	PRESSURES		Total Fluid Pumped	REMARKS
a.m./p.m.	Tubing	Casing		
8:00		8 5/8"		On Location. Rig pulling drill collars
				Hole-253'
				Pipe-253'
				Break circulation with mud pump.
				Mix 170sks 60/40poz 2%gel 3% Calcium Chloride
9:35				Displace with 15bbls at 5.5bpm-250# Circulated cement to surface.
				Thank You!
				Nathan W.

COPELAND Acid & Cement

TREATMENT REPORT

Acid Stage No. _____

Date 8/27/2017 District G.B. F.O. No. C45580

Company Mike Kelso Oil

Well Name & No. Honas

Location _____ Field _____

County Trego State KS

Casing: Size 5.5" Type & Wt. Mixed Used Set at _____ ft.

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Liner: Size _____ Type & Wt. _____ Top at _____ ft. Bottom at _____ ft.

Cemented: Yes Perforated from _____ ft. to _____ ft.

Tubing: Size & Wt. _____ Swung at _____ ft.

Perforated from _____ ft. to _____ ft.

Open Hole Size _____ T.D. _____ ft. P.B. to _____ ft.

Type Treatment:	Amt.		Type Fluid	Sand Size	Pounds of Sand
Bkdown		Bbl./Gal.			
		Bbl./Gal.			
		Bbl./Gal.			
		Bbl./Gal.			
Flush		Bbl./Gal.			

Treated from _____ ft. to _____ ft. No. ft. 0

from _____ ft. to _____ ft. No. ft. 0

from _____ ft. to _____ ft. No. ft. 0

Actual Volume of Oil / Water to Load Hole: _____ Bbl./Gal.

Pump Trucks. No. Used: Std. 365 Sp. _____ Twin _____

Auxiliary Equipment 327

Personnel Nathan-Greg-Mike-Eddy

Auxiliary Tools _____

Plugging or Sealing Materials: Type _____

_____ Gals. _____ lb.

Company Representative Mike K. **Treater** Nathan W.

TIME	PRESSURES		Total Fluid Pumped	REMARKS
a.m./p.m.	Tubing	Casing		
12:00		5.5"		On Location.
				Pipe-4224' Centralizers-1,3,5,7,9,62,63
				Baffle-4181' Baskets-2,4,60
				Port Collar-1703'(61)
5:20				Break circulation with mud pump. Circulate for 30 minutes.
				Pump 500gal Mud Flush.
				Plug Rat Hole with 30sks 60/40poz 4%gel
				Mix 25sks 60/40poz 4%gel
				Mix 175sks 60/40poz 2%gel 12%salt .25%C-12 .5%C-37 .5%C-41p
				5#/sk Gilsonite.
				Wash out pump and lines.
				Displace with 102bbls at 6.25bm-900#
				Plug landed at 1200# Pressure up to 1500# Held.
7:00				Released pressure. Flaot held.
				Thank You!
				Nathan W.

COPELAND
Acid & Cement

TREATMENT REPORT

Acid Stage No. _____

Date 10/2/2017 District G.B. F.O. No. C45761

Company Mike Kelso Oil

Well Name & No. Honas A-2

Location _____ Field _____

County Trego State KS

Casing: Size 5.5" Type & Wt. _____ Set at _____ ft.

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Formation: _____ Perf. _____ to _____

Liner: Size _____ Type & Wt. _____ Top at _____ ft. Bottom at _____ ft.

Cemented: Yes Perforated from _____ ft. to _____ ft.

Tubing: Size & Wt. 2" Swung at _____ ft.

Perforated from _____ ft. to _____ ft.

Open Hole Size _____ T.D. _____ ft. P.B. to _____ ft.

Type Treatment:	Amt.		Type Fluid	Sand Size	Pounds of Sand
Bkdown		Bbl./Gal.			
		Bbl./Gal.			
		Bbl./Gal.			
		Bbl./Gal.			
Flush		Bbl./Gal.			

Treated from _____ ft. to _____ ft. No. ft. 0

from _____ ft. to _____ ft. No. ft. 0

from _____ ft. to _____ ft. No. ft. 0

Actual Volume of Oil / Water to Load Hole: _____ Bbl./Gal.

Pump Trucks. No. Used: Std. 365 Sp. _____ Twin _____

Auxiliary Equipment 367/308

Personnel Nathan-Eddy-James

Auxiliary Tools _____

Plugging or Sealing Materials: Type _____

_____ Gals. _____ lb.

Company Representative Mike K. **Treater** Nathan W.

TIME	PRESSURES		Total Fluid Pumped	REMARKS
a.m./p.m.	Tubing	Casing		
9:30	2"	5.5"		On Location.
				Port Collar-1693'
				Pressure up casing to 500# Open port collar.
				Break circulation with water.
				Mix 325sks 65/35poz 6%gel. Circulated cement to surface.
				Displace with 5.5bbls. Close port collar and presure up to 1000# Held.
				Reverse out with 10bbls. Run 5jts and reverse out with 15bbls.
				Thank You!
				Nathan W.

DRILL STEM TEST REPORT

Mike Kelso Oil Inc

PO Box 467
Chase Ks 67524-0467

ATTN: Mike Kelso, Pat Deen

21-14s-22w Trego

Honas A #2

Job Ticket: 63015 **DST#: 1**

Test Start: 2017.08.25 @ 00:50:39

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:16:49
Time Test Ended: 09:20:03

Test Type: Conventional Bottom Hole (Initial)
Tester: Ray Schwager
Unit No: 77

Interval: 3956.00 ft (KB) To 3990.00 ft (KB) (TVD)
Total Depth: 3990.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

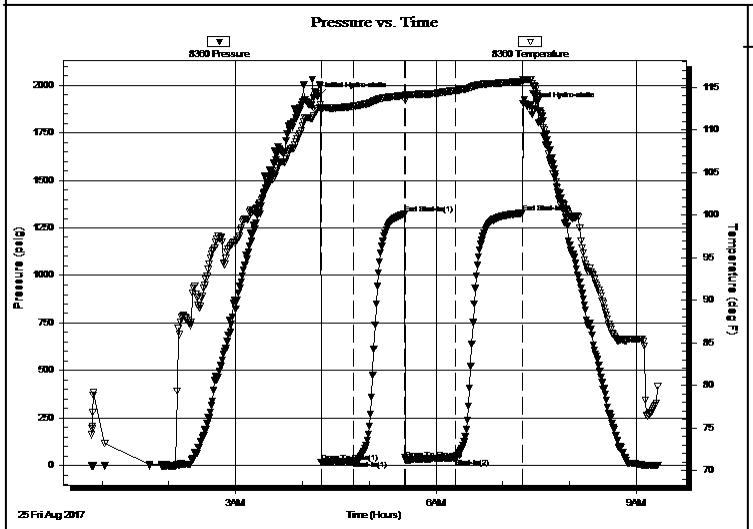
Reference Elevations: 2228.00 ft (KB)
2222.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8360 **Inside**

Press@RunDepth: 41.20 psig @ 3962.00 ft (KB)
Start Date: 2017.08.25 End Date: 2017.08.25
Start Time: 00:50:39 End Time: 09:20:03

Capacity: 8000.00 psig
Last Calib.: 2017.08.25
Time On Btm: 2017.08.25 @ 04:14:04
Time Off Btm: 2017.08.25 @ 07:22:33

TEST COMMENT: 30-IFP-w k bl thru-out 1/4"to 1/2"bl
45-ISIP-no bl
45-FFP-w k bl thru-out 1/2"to !"bl
60-FSIP-no bl



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1939.40	112.49	Initial Hydro-static
3	19.45	112.32	Open To Flow (1)
33	25.54	112.78	Shut-In(1)
78	1321.54	114.04	End Shut-In(1)
79	31.41	113.82	Open To Flow (2)
124	41.20	114.61	Shut-In(2)
184	1327.57	115.66	End Shut-In(2)
189	1887.43	115.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	90' GIP	0.00
45.00	HO&GCM 5%G35%O60%M	0.32

Gas Rates

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

DRILL STEM TEST REPORT

Mike Kelso Oil Inc

PO Box 467
Chase Ks 67524-0467

ATTN: Mike Kelso, Pat Deen

21-14s-22w Trego

Honas A #2

Job Ticket: 63015 **DST#: 1**

Test Start: 2017.08.25 @ 00:50:39

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:16:49
Time Test Ended: 09:20:03

Test Type: Conventional Bottom Hole (Initial)
Tester: Ray Schwager
Unit No: 77

Interval: 3956.00 ft (KB) To 3990.00 ft (KB) (TVD)
Total Depth: 3990.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair

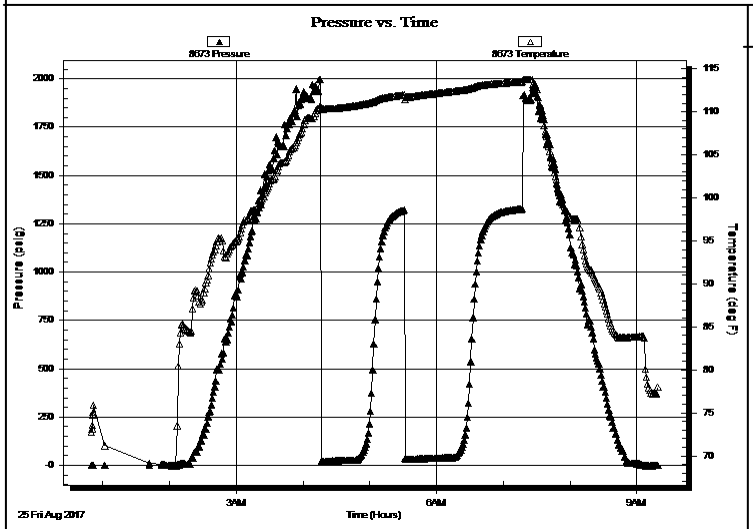
Reference Elevations: 2228.00 ft (KB)
2222.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8673 **Outside**

Press@RunDepth: psig @ 3962.00 ft (KB)
Start Date: 2017.08.25 End Date: 2017.08.25
Start Time: 00:50:09 End Time: 09:19:18

Capacity: 8000.00 psig
Last Calib.: 2017.08.25
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP-w k bl thru-out 1/4"to 1/2"bl
45-ISIP-no bl
45-FFP-w k bl thru-out 1/2"to !"bl
60-FSIP-no bl



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	90' GIP	0.00
45.00	HO&GCM 5%G35%O60%M	0.32

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Mike Kelso Oil Inc

PO Box 467
Chase Ks 67524-0467

ATTN: Mike Kelso, Pat Deen

21-14s-22w Trego

Honas A #2

Job Ticket: 63015 **DST#: 1**

Test Start: 2017.08.25 @ 00:50:39

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:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.96 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

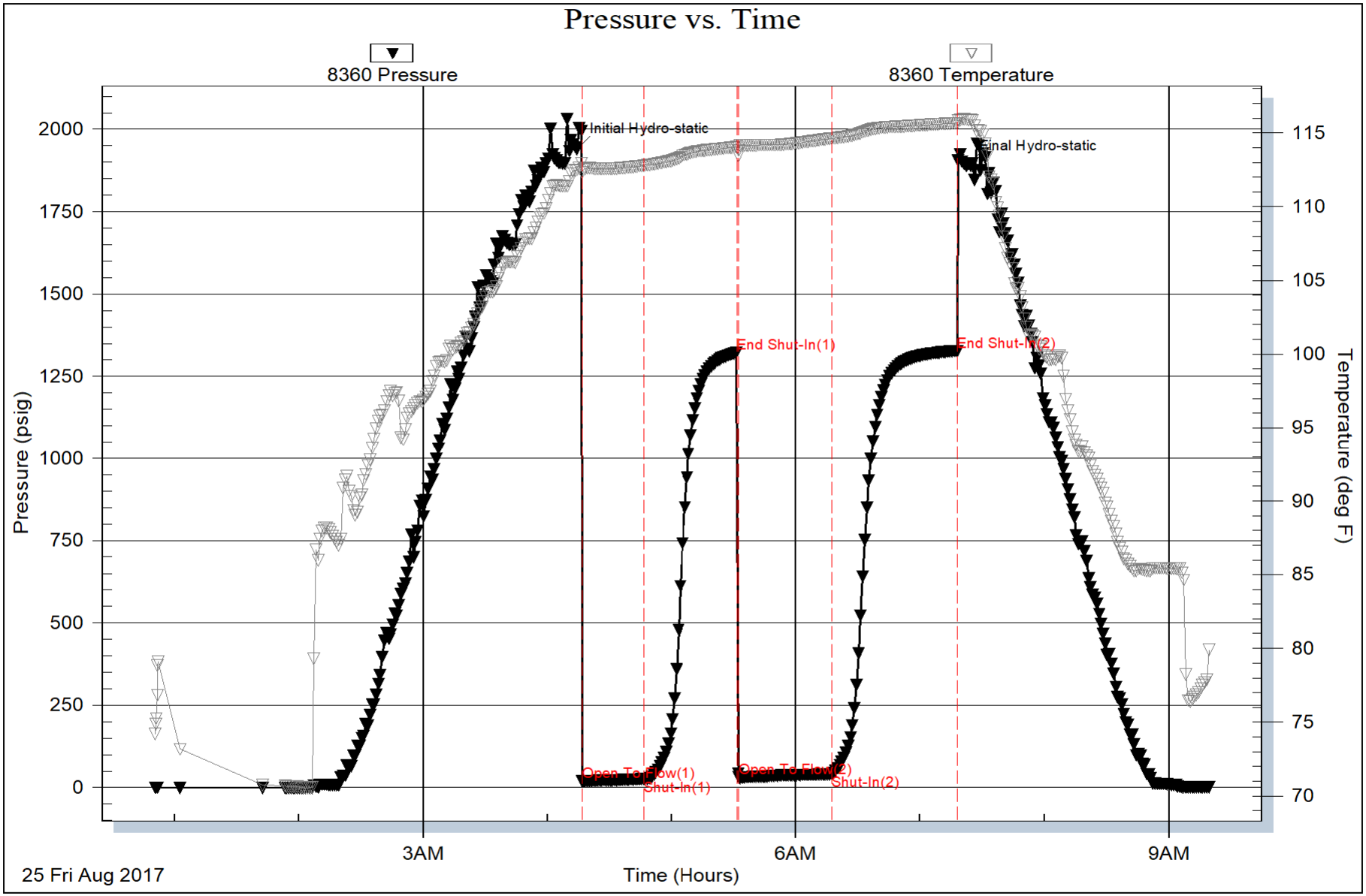
Recovery Table

Length ft	Description	Volume bbl
0.00	90' GIP	0.000
45.00	HO&GCM 5%G35%O60%M	0.319

Total Length: 45.00 ft Total Volume: 0.319 bbl

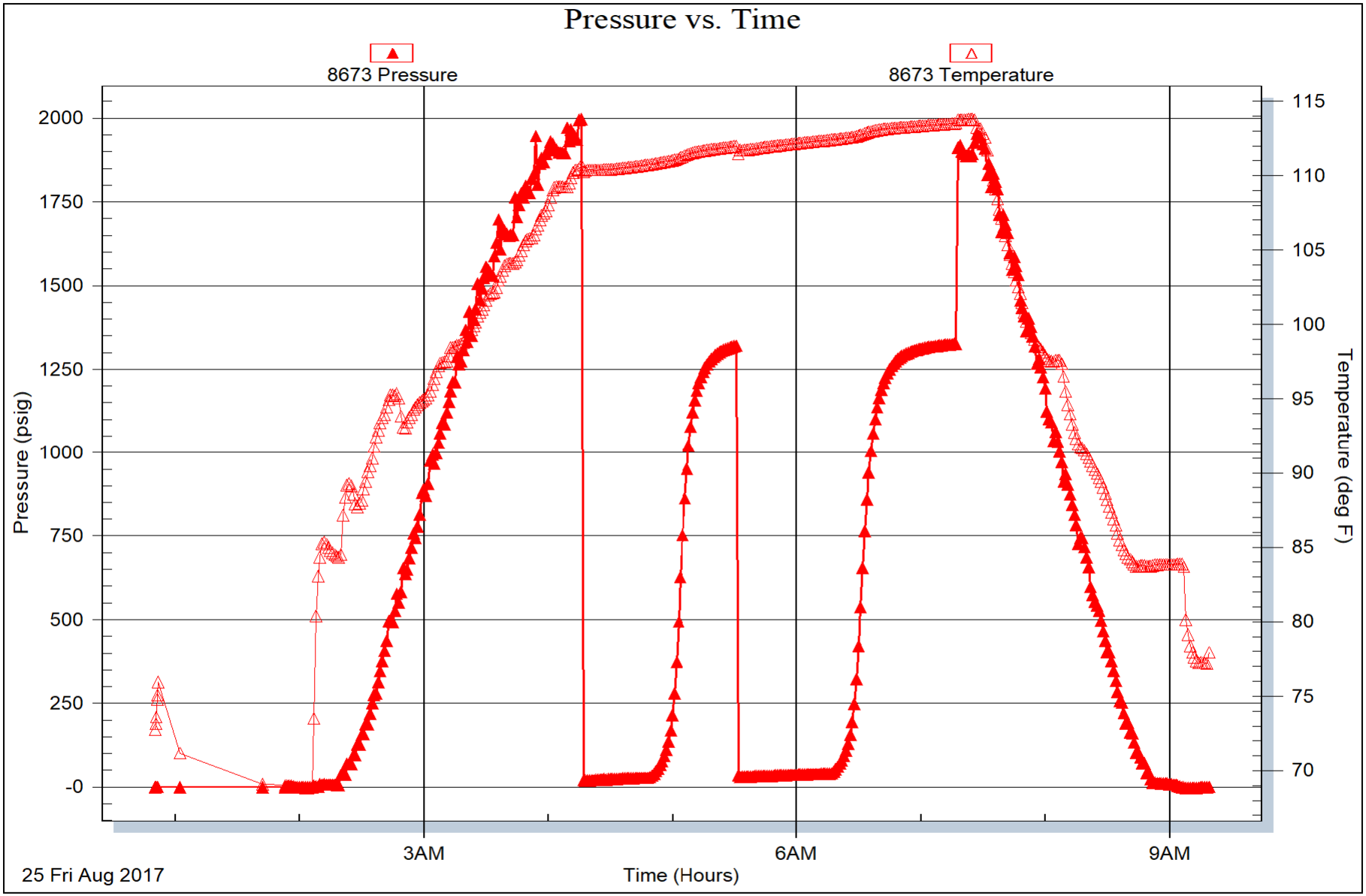
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8360 **Inside** Mike Kelso Oil Inc Honas A #2 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 63015 Printed: 2017.08.25 @ 10:32:15

Serial #: 8673 **Outside** Mike Kelso Oil Inc Honas A #2 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 63015 Printed: 2017.08.25 @ 10:32:15

Geo Log Header
WellSight Systems

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	Honas A2		
API:	15-195-23028-00-00		
Location:	Sec: 21-14S-22W		
License Number:	31528	Region:	Trego Co., KS
Spud Date:	08-17-17	Drilling Completed:	08-27-17
Surface Coordinates:	NE-NW-SE-NE 1330' FNL & 700' FEL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	2221'	K.B. Elevation (ft):	2228'
Logged Interval (ft):	3400' To: 4225'	Total Depth (ft):	4225'
Formation:	Mississippian		
Type of Drilling Fluid:	Chemical/Polymer/Gel		

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Mike Kelso Oil.,Inc.
Address: P.O. Box 467
Chase, KS 67524-0467

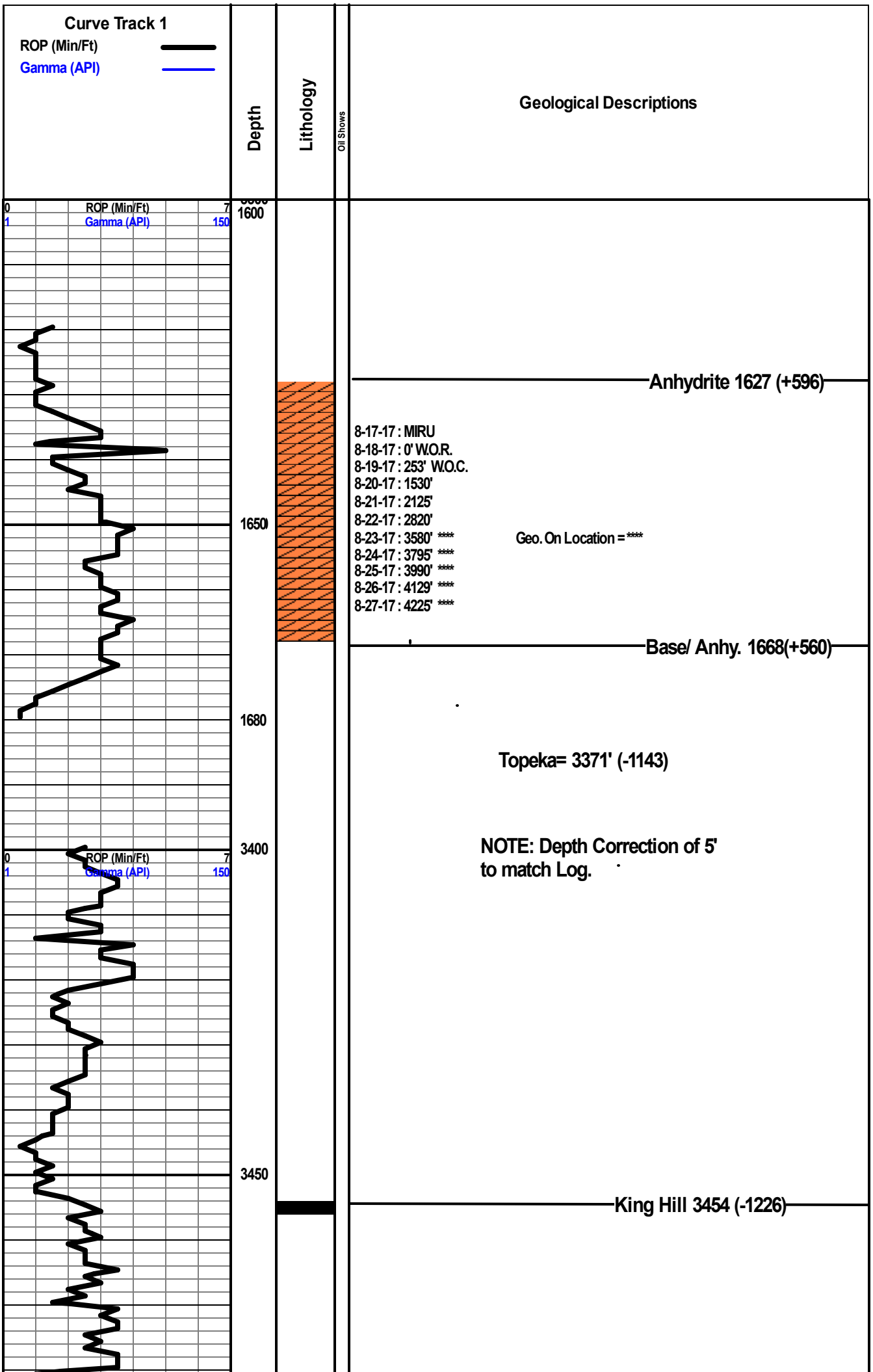
GEOLOGIST

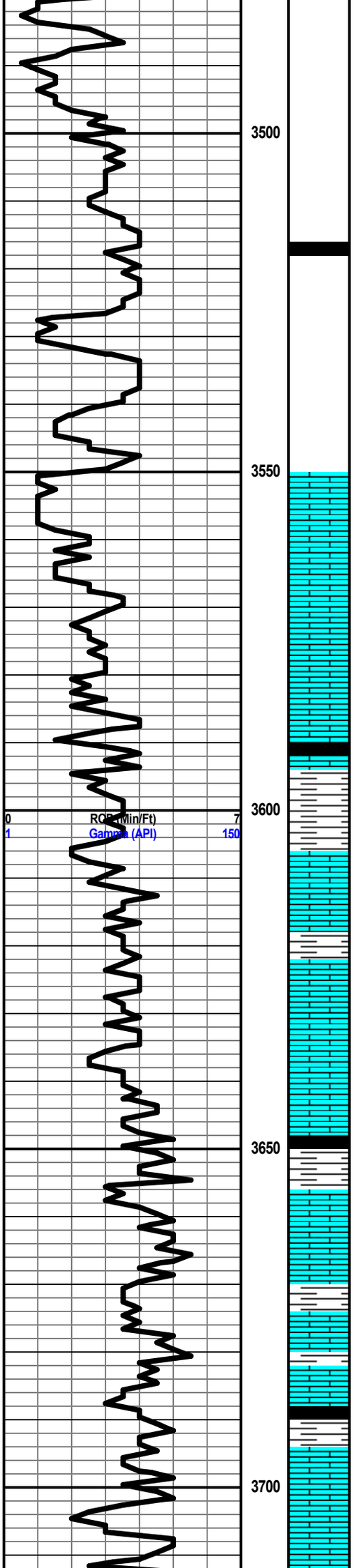
Name: Patrick J. Deenihan
Company:
Address: 1407 N, Stratford Ln.
Wichita, KS 67206

DSTs

DST #1 (3951'-3985) 30"-45"-45"-60"
IFP: 1/4" to 1/2" ISP: No Return
FFP: Weak to 1/2" FFP: No Return
REC: 90' GIP & 45' of HO&GCM. (5% Gas; 35% Oil; 60%Gas)
ISIP: 1321#- 1327# IFP: 19#-25% FFP: 31#-41#
HP'S: 1939#-1887# BHT: 115 Degrees
REC: 1' Mud
DST # 2 (4111'-4126') 25"-15" -Pulled tool
BHT:115 Degrees
SIP'S -23# — IFP'S 21#-23#

DST # 3 (4041'-4134') 30"-45"-10'- Pulled tool
IFP: 1/4" to1/2" ISIP: No Return FFP: No Return
Rec 20' Mud with Slight Show of Oil
ISIP: 102# FSIP: ———
IFP: 25#-28# FFP: 46#-75# HP'S 2013#-1977#
BHT: 113 Degrees


Curve Track 1
ROP (Min/Ft)
Gamma (API)
Depth
Lithology
Oil Shows
Geological Descriptions
0
ROP (Min/Ft)
7
1
Gamma (API)
150
1600
1650
1680
3400
3450
Anhydrite 1627 (+596)
8-17-17 : MIRU
8-18-17 : 0' W.O.R.
8-19-17 : 253' W.O.C.
8-20-17 : 1530'
8-21-17 : 2125'
8-22-17 : 2820'
8-23-17 : 3580' ****
8-24-17 : 3795' ****
8-25-17 : 3990' ****
8-26-17 : 4129' ****
8-27-17 : 4225' ****
Geo. On Location = ****
Base/ Anhy. 1668(+560)
Topeka= 3371' (-1143)
NOTE: Depth Correction of 5'
to match Log.
King Hill 3454 (-1226)



3500

3550

3600

3650

3700

Queen Hill 3517(-1289)

Heebner 3588-1360)

Sh., Black Carb,

Sh., Gry., Dk-Gry., Brn. Argil.

Toronto 3606(-1378)

Ls., Crm., Lt-Gry. Mott/Sing, Fn-xln., Fssl. Chert Opaque Gry. No show.

Sh., Gry., to Dk-Gry., Lt- Grn. Silty to Argil.

Lansing 3623 (-1395)

Ls., Wht., Lt-gry., Crm. Sing. Fn-xln., Fssl Sub Chalky. No show

Ls., Lt-Gry., Tan. Mott/Sing. Fn-xln., Sli-Fssl., Cherty to Sli-Chalky. No show.

Sh., Black Carb.

Sh., Vari-Color., Argil.

Ls., Crn., Lt-Gry. Sing. Micro to Fn-xln Sli-Fssl. Dense with Brn. edge stn. No show of live or Free oil. No Fluor.

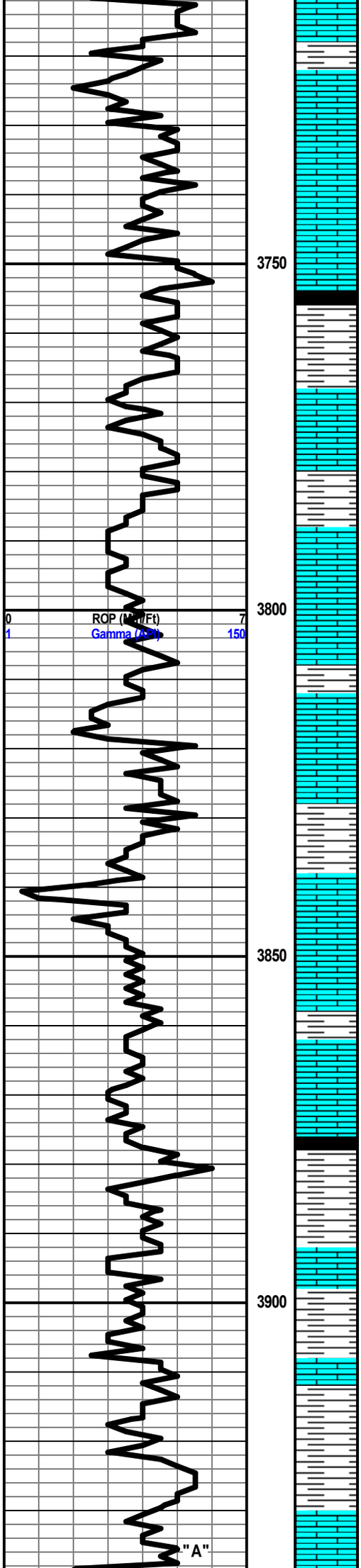
Sh., Vari-Color. Argil.

Ls., Lt-Gry,n Tan Mott/Sing., Micro-xln to Fn-xln. Chert Lt-Gry. to Tan. Trc of Very poor Fssl. No show.

Sh., Black Carb.

Sh., Dk-Bry., Grn., and Brn. Dense -xln. to Aegil

Ls., Wht., Crm., Lt-Gry. Fn-xln. to sli-Dolo. P-Scattered Live oil stn. on a few edges. No Odor. No Fluor.



Sh., Gry., Grn. Argil
Ls., Crm., Lt-Gry., Fn-xln., Sli-Fssl. No Show.

Ls., As above with Sub-Chalky to Chalky. No show.

Sh., Black Carb.
Sh., Vari-Color. Argil.

Ls., Lt-Gry., Crm., Tan. Sing. Fn-xln. Sli-Fssl. Sub Chalky to Chalky with depth.

Sh., Gry., Brn., Grn. Argil.

Ls., Crm., Tan, Lt-Gry., P-fn-xln., and sli-fssl. No show.

Ls., As above., Chalky with depth. No show.

Sh., Gry., Dk-Gry., Brn.
Ls., Wht., Crm., Lt-Gry. Dense Micro-xln to Fn-xln. Sing. No show.

Sh., Vari-Color. Argil.

Ls., Wht., Lt-Gry., Crm., Dense Fn-xln., to Micro-xln. No show.

Sh., Abund. Vari-Color.Argil.

BKC 3876 (-1648)

Sh., Black Carb.
Sh., Black, Dk-Gry., Argil

Sh., Vari-Color. Argil. to Silty

Marmaton 3892 (-1664)

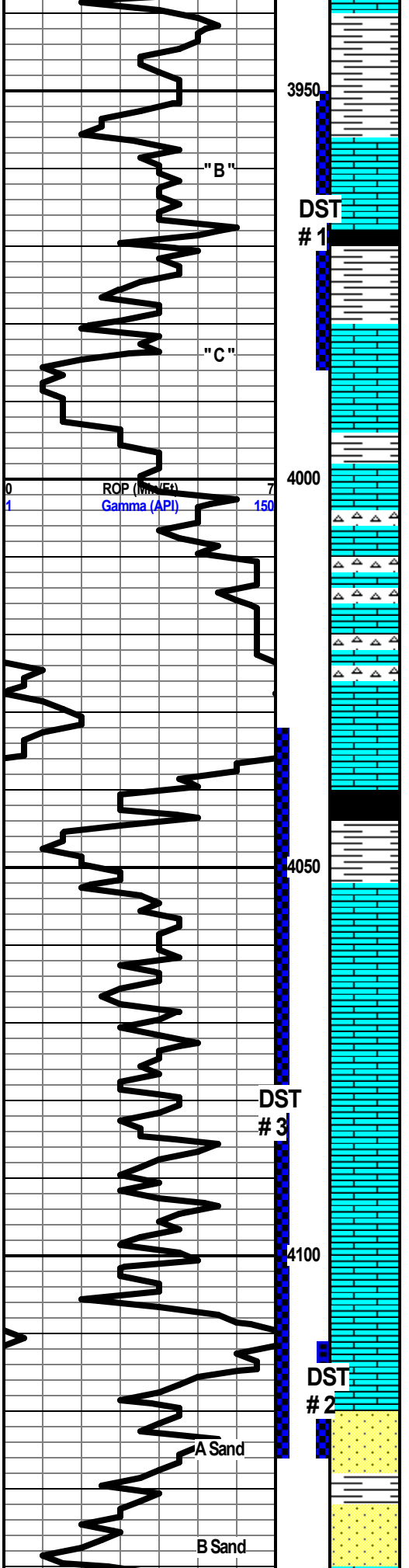
Ls., Crm., Tan. Sing. Fn-xln., Sli-Fssl. to sub Chalky. No show.

Sh., Vari-Color. Argil.

Sh., Blk., Grn., Brn., Gry. Argil.

Altamont 3930 (-1702)

Ls., Wht., Lt-Gry.,Crm., Tan. Sing, Fn-xln, Micro-Xln . Dense. No show.



Sh., Gry, to Dk-Gry., Brn., Grn., Silty, Pyritic, Argil.

Ls., Lt-Gry., Crm, Micro-xln, to Fn-xln, Sli -Fssl. No show.

Sh., Black Carb
Sh., Vari-Color/ Silty to Argil.

Ls., Crm., Lt-Gry., Mott/Sing. Fn-xln Dolo. in part Sli-Fssl., some fresh opaque Wht. Chert. Good show of live oil Very few Pcs. with Free light Free Oil. Very strong odor., Abund. Bright Gold sat. Fluor. Overall rocks hard to break.

Sh., Vari.Color.Ardil.

Pawnee 3998 (-1770)

Ls., Crm., Fn-xln, .,sli-Fss. Sli-Cherty. Sing. G-Show of Live free oil.good odor , fair Fluor

Chert., Wht., Lt-Gry. Fresh to Sli-Weathered. Trc, of med.to black oil stn.; om edges. Trc. of Live free oil., P-sulfer odor.

Ls., Wht., to Crm. Micro-xln to Fresh Chert., Dense and non Friable.No show.

Labette Sh. 4040 (-1882)

Sh., Black Carb

Sh,n Gry. to Dk-Gry. Argil

Ft. Scott 4058 (-1830)

Ls., Dense Micro- xln. Chert, Wht., Lt--Gry., to Clear.. Fair to good Fluor., Good odor Scattered show of LFO.

Sh., Black., Gry., Argil.

Ls., Cherty to denseMicro-xln., Carrying Show from above. (sluff)

Cher. Lime 4084 (1856)

Ls., Crm., Sing,Mott. Micro-xln.. sli-Fss; trc of Chalky Ls. F-G Fluor spotty to sat. Good odor fair show of live free oil.

Ls., Crm., Fn-xln. Fn-xln., Fssl., Good show of Live Free oil., Good odor Good Scattered Fluor.

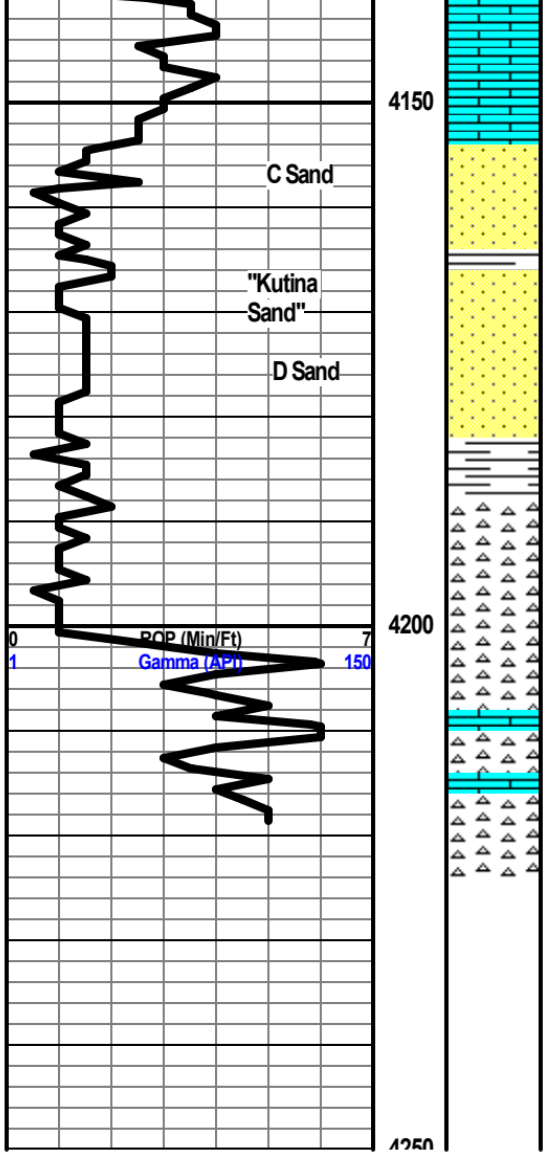
Sh., Black Gry., Brn., Lt Green Argil

Ls., Wht., Crm., Lt-Gry. Fn-xln No show (carrying sluff from above with Good show of LFO)

SS., Lg., Med., Fn to Very Fn-Grn SS., All Well Rounded- Sorted., Sli-Fluor to no Fluor., No odor., trc of very Lt.- Brn-FO

Sh., Brn to reddish Brn. Gummy to Argil.

SS., Fn. to Med. Grn., Clusters Friable. No show.



Ls., Wht., Crm., Dense Micro=xln. No show

SS., Clear Fn- Grn., Clusters well rd., Friable Clusters with Good show of LFO Fair Fluor. Faint odor. Micro-Fn., Grn. Free SS No visible Show., No Fluor. No odor

Sh., Reddish-Brn., Gummy to Argil.

SS., Trc of Frable Clusters with Blk. Dead Oin stn. Becoming free Micro Grn. Sli Sulfer odor. (Abund. Glauconite)

Sh., Gry., Brn. Lt-Grn., Argil.

Miss. 4188 (-1960)

Chert, Wht., Yellow., Lt-Orange Fresh.Sharp. No show . (Strong sulfur odor)

Ls., Wht., Very dense Micro- Xln No Show.
Chert Fresh Wht., yellow Sharp Fresh. No show.
Ls., As above

Chert Wht.,Yellow, Lt-Orange No show.

RTD: 4225 (-1997)
LTD: 4220 (-1992)