KOLAR Document ID: 1472674

Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33922
Name: Mustang Energy Corporation
Address 1: PO BOX 1121
Address 2:
City: HAYS State: KS Zip: 67601 + 1121
Contact Person: Rodney Brin
Phone: (785) 623-0533
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Cameron Brin
Purchaser: Coffeville Resources

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 #:

6/1/2019 Spud Date or Recompletion Date
6/6/2019 Date Reached TD
7/16/2019 Completion Date or Recompletion Date

API No.: 15-051-26955-00-00
Spot Description:
NW - NE - SW - NE Sec. 22 Twp. 11 S. R. 19 ☐ East ☑ West
1420 Feet from ☑ North / ☐ South Line of Section
1780 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: Ellis
Lease Name: VINE E Well #: 8
Field Name: Solomon
Producing Formation: Arbuckle
Elevation: Ground: 1935 Kelly Bushing: 1943
Total Vertical Depth: 3576 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1235 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: 48000 ppm Fluid volume: 240 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: CLA-MAR Oil Company
Lease Name: Dechant SWD License #: 6509
Quarter SW Sec. 17 Twp. 14 S. R. 18 ☐ East ☑ West
County: Ellis Permit #: D-24,904

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:** 10/10/2019

Page Two

Operator Name: Mustang Energy Corporation Lease Name: VINE E Well #: 8

Sec. 22 Twp. 11 S. R. 19 ☐ East ☑ West County: Ellis

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
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:

Micro
Dual Induction
Neutron Density

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

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.63	23	1235	Common	460	2%Gel&3%CC
Production	7.88	5.50	15.5	3579	Common	135	10%Sal-5%Gil

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	-			
	-			

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: 07/25/2019

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

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

PRODUCTION INTERVAL:

Top	Bottom
3468	3472

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)*
4	3498	3502	CIBP Cast Iron Bridge Plug	3488	
4	3468	3472			

TUBING RECORD: Size: 2.5 Set At: 3460 Packer At:

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

Form	ACO1 - Well Completion
Operator	Mustang Energy Corporation
Well Name	VINE E 8
Doc ID	1472674

Tops

Name	Top	Datum
Anhydrite	1239	+704
Base	1276	+667
Topeka	2899	-956
Heebner	3121	-1178
LKC	3165	-1222
BKC	3384	-1441
Arbuckle	3462	-1519
RTD	3582	-1639

Form	ACO1 - Well Completion
Operator	Mustang Energy Corporation
Well Name	VINE E 8
Doc ID	1472674

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	8.63	23	1235	Common	460	2%Gel&3%CC
Production	7.88	5.50	15.5	3579	Common	135	10%Sal-5%Gil

MICRO LOG

Company	MUSTANG ENERGY CORPORATION
Well	VINE "E" #8
Field	SOLOMON
County	ELLIS
State	KANSAS

Company MUSTANG ENERGY CORPORATION
Well VINE "E" #8
Field SOLOMON
County ELLIS State KANSAS
Location: API # : 15-051-26955-0000
1420' FNL & 1780' FEL
NW - NE - SW - NE
SEC 22 TWP 11S RGE 19W

Other Services
CDL/CNL
DIL

Permanent Datum GROUND LEVEL Elevation 1935
Log Measured From KELLY BUSHING 8' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1943
D.F. 1941
G.L. 1935

Date	6/7/19		
Run Number	TWO		
Depth Driller	3576		
Depth Logger	3582		
Bottom Logged Interval	3580		
Top Log Interval	2800		
Casing Driller	8 5/8"@1235'		
Casing Logger	1236		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6,000 PPM	
Density / Viscosity	9.1/53		
pH / Fluid Loss	10.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.550@90F		
Rmf @ Meas. Temp	.413@90F		
Rmc @ Meas. Temp	.660@90F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.442@112F		
Time Circulation Stopped	3.5 HOURS		
Time Logger on Bottom	5:15 A.M.		
Maximum Recorded Temperature	112F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	CAMERON BRIN		

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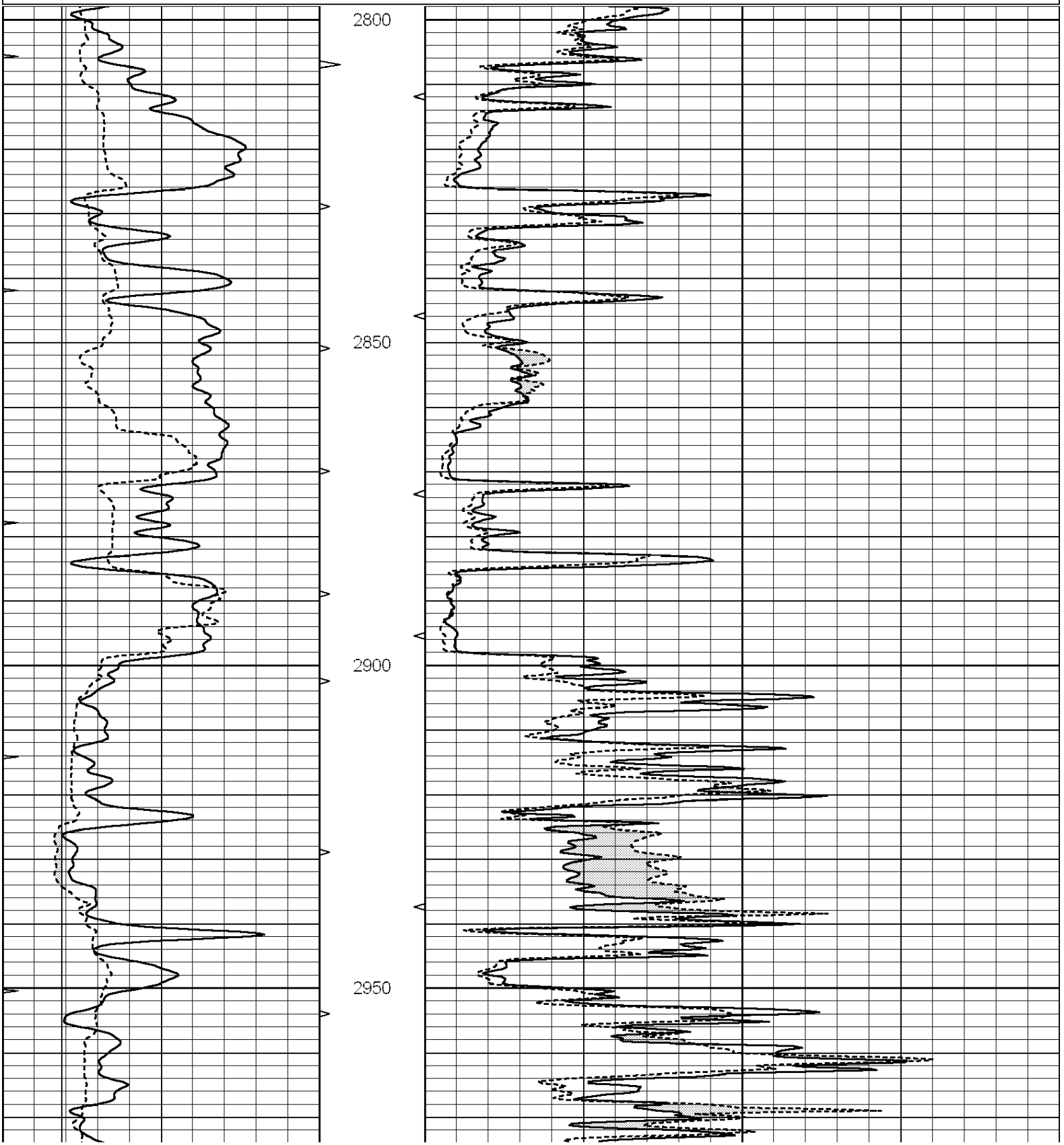
Comments

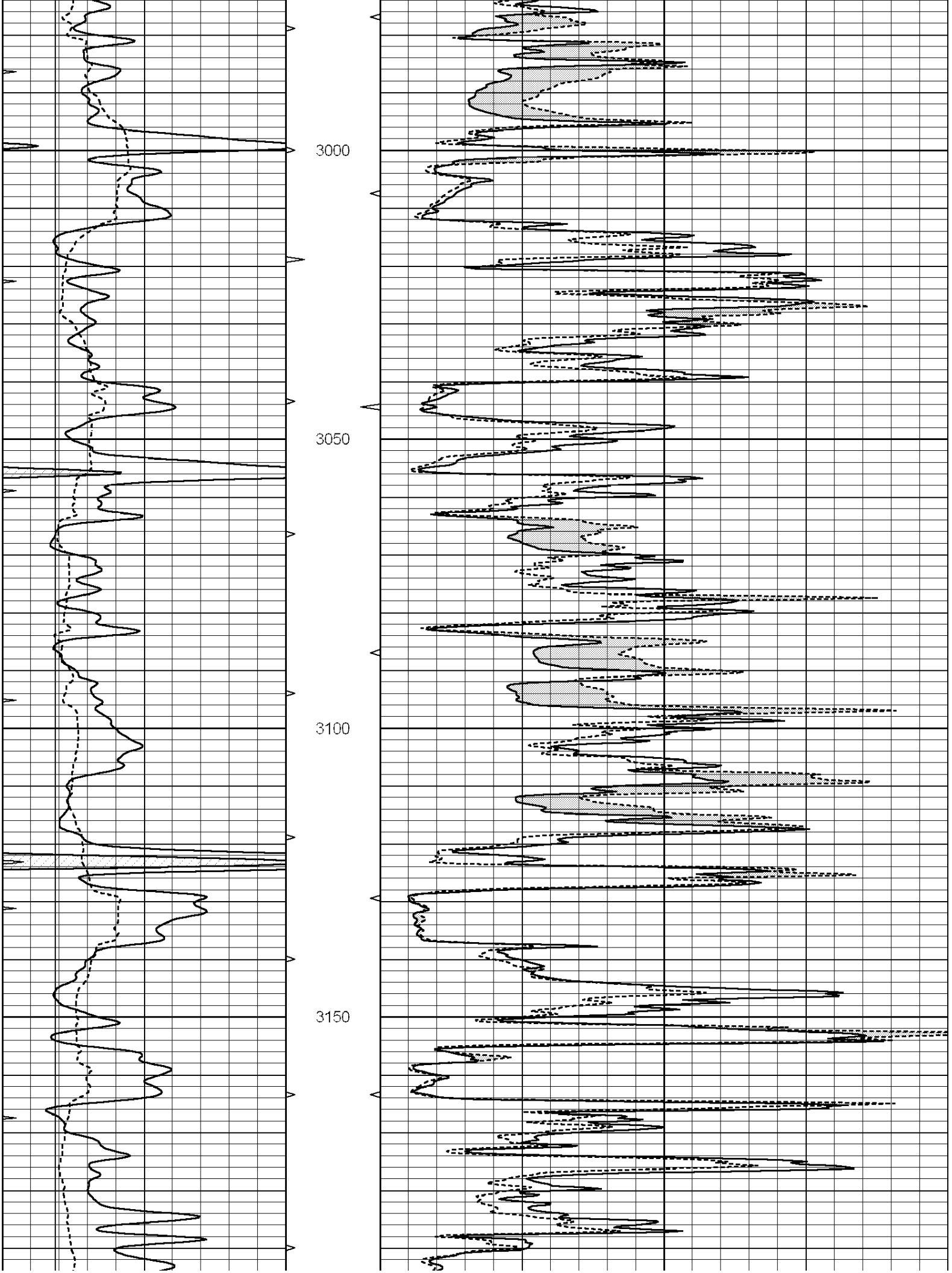
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
YOCEMENTO & RIVERVIEW RD., 3/4 E. TO FARM DRIVE, S. INTO AND BACK WEST

MAIN SECTION

Database File:	3727ddn.db
Dataset Pathname:	pass6.4
Presentation Format:	micro
Dataset Creation:	Sat Jun 08 05:54:23 2019 by Calc SOC 120430
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	0	MEL 20 (Ohm-m)	40
0	MINMK	20	TBHV			
			0 (ft3) 10			

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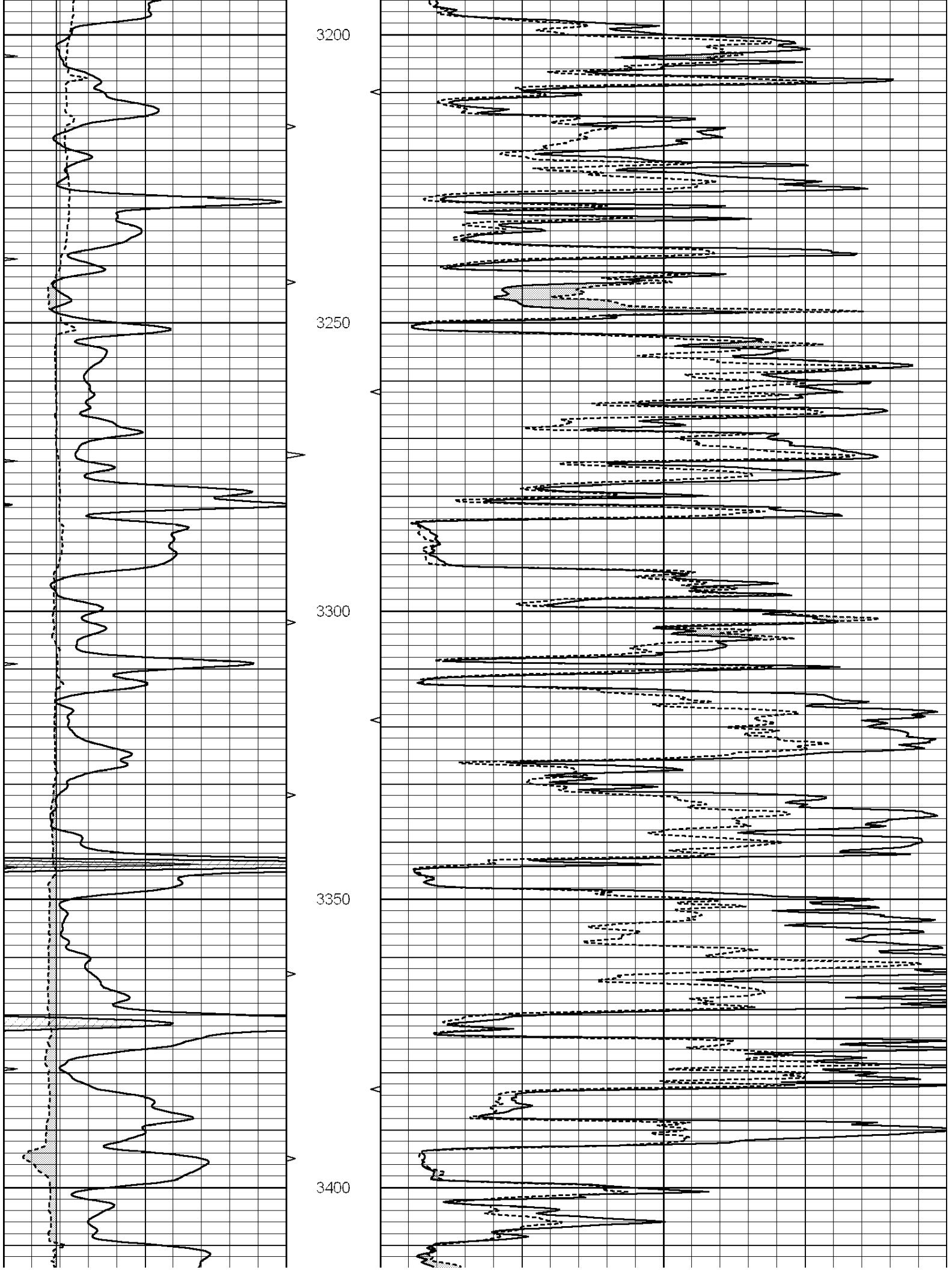
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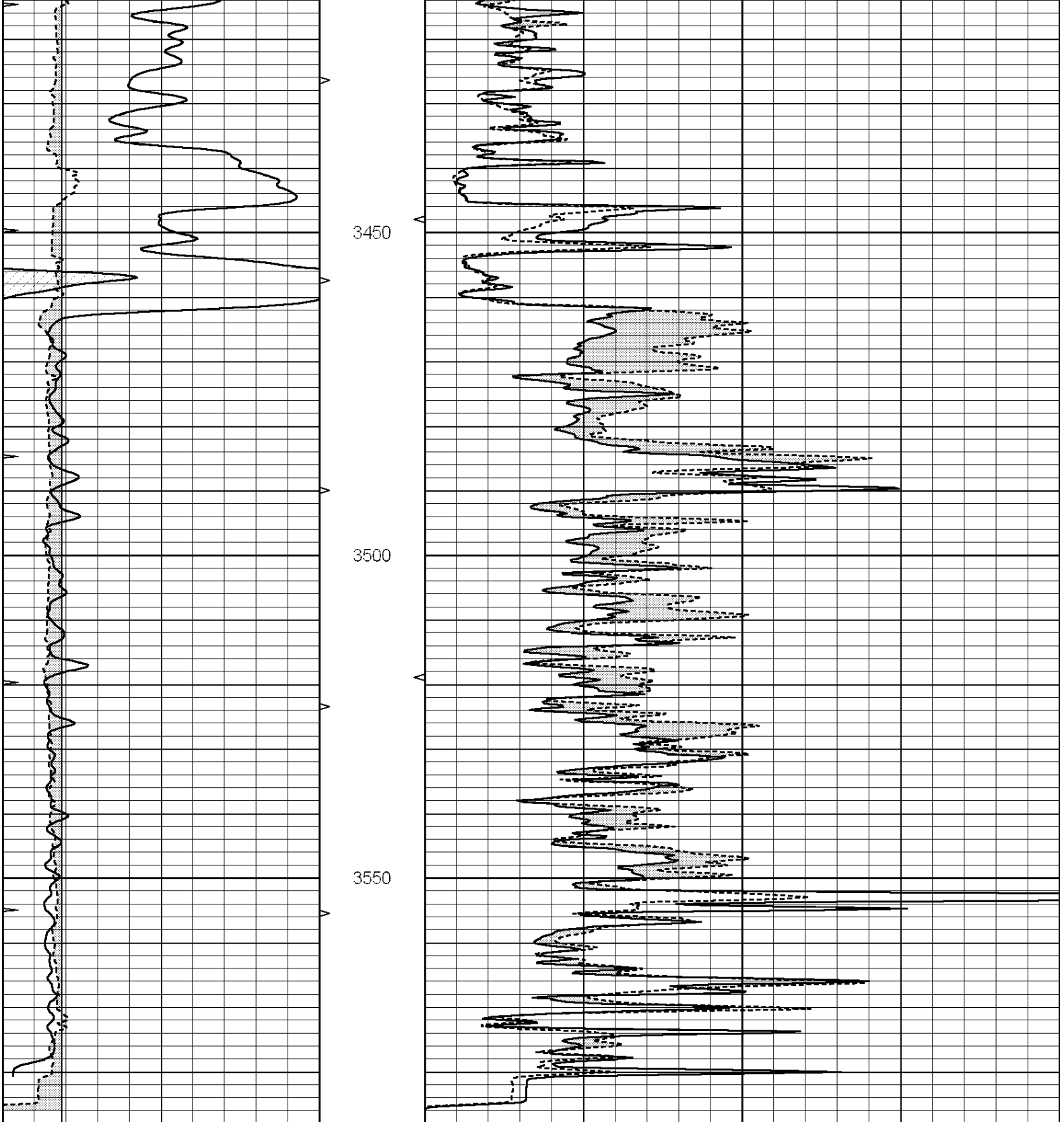
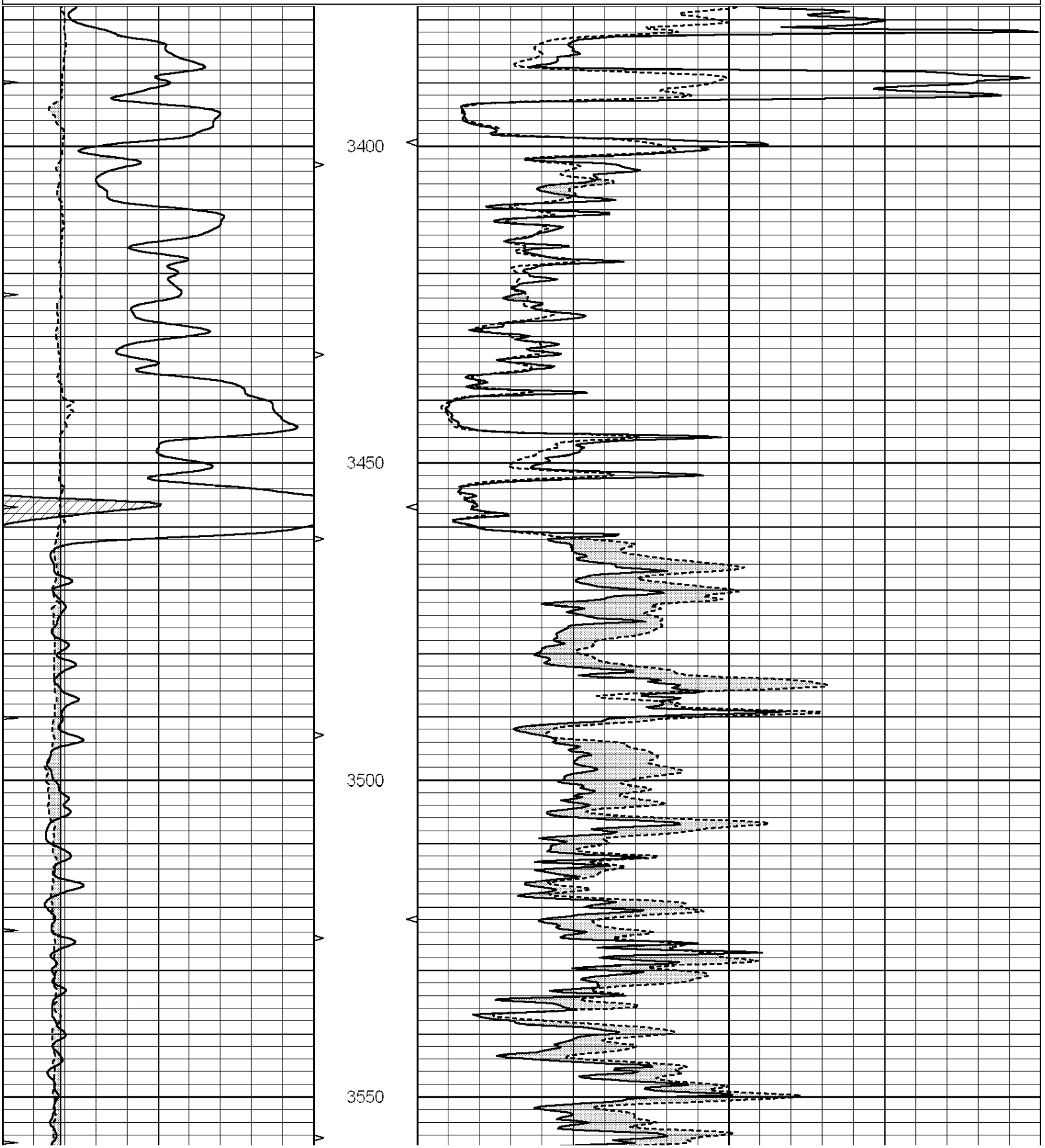


REPEAT SECTION

Database File:	3727ddn.db
Dataset Pathname:	pass5.5
Presentation Format:	micro
Dataset Creation:	Sat Jun 08 05:31:24 2019 by Calc SOC 120430
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	0	MEL 20 (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	0	MEL 20 (Ohm-m) 40
0	MINMK	20	TBHV		
			0 (ft3) 10		

Calibration Report

Database File: 3727ddn.db
Dataset Pathname: pass6.4
Dataset Creation: Sat Jun 08 05:54:23 2019 by Calc SOC 120430

MICRO Calibration Report

Serial Number:	070911	
Tool Model:	ProbeN	
Performed:	Sat Jun 08 05:50:57 2019	
Caliper Calibration:	Gain=6.774	Offset=1.065
	Low Cal	High Cal
References	7.500	18.000
Readings	0.950	2.500
1.5" Calibration:	Gain=24.000	Offset=0.000
	Low Cal	High Cal
References	0.000	20.000
Readings	0.001	1.240
2" Calibration:	Gain=48.000	Offset=-1.000
	Low Cal	High Cal
References	0.000	20.000
Readings	0.001	1.076

Gamma Ray Calibration Report

Serial Number:	070559	
Tool Model:	OPEN_GR	
Performed:	Wed May 15 12:59:24 2019	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2300	GAPI/cps

DUAL INDUCTION LOG

Company	MUSTANG ENERGY CORPORATION
Well	VINE "E" #8
Field	SOLOMON
County	ELLIS
State	KANSAS

Company MUSTANG ENERGY CORPORATION
Well VINE "E" #8
Field SOLOMON
County ELLIS State KANSAS
Location: API # : 15-051-26955-0000
1420' FNL & 1780' FEL
NW - NE - SW - NE
SEC 22 TWP 11S RGE 19W

Other Services
CDL/CNL
MEL

Permanent Datum	GROUND LEVEL	Elevation	1935
Log Measured From	KELLY BUSHING	8' A.G.L.	
Drilling Measured From	KELLY BUSHING		

Elevation
K.B. 1943
D.F. 1941
G.L. 1935

Date	6/7/19		
Run Number	ONE		
Depth Driller	3576		
Depth Logger	3582		
Bottom Logged Interval	3580		
Top Log Interval	00		
Casing Driller	8 5/8"@1235'		
Casing Logger	1236		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6,000 PPM	
Density / Viscosity	9.1/53		
pH / Fluid Loss	10.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.550@90F		
Rmf @ Meas. Temp	.413@90F		
Rmc @ Meas. Temp	.660@90F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.442@112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	3:15 A.M.		
Maximum Recorded Temperature	112F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	CAMERON BRIN		

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Comments

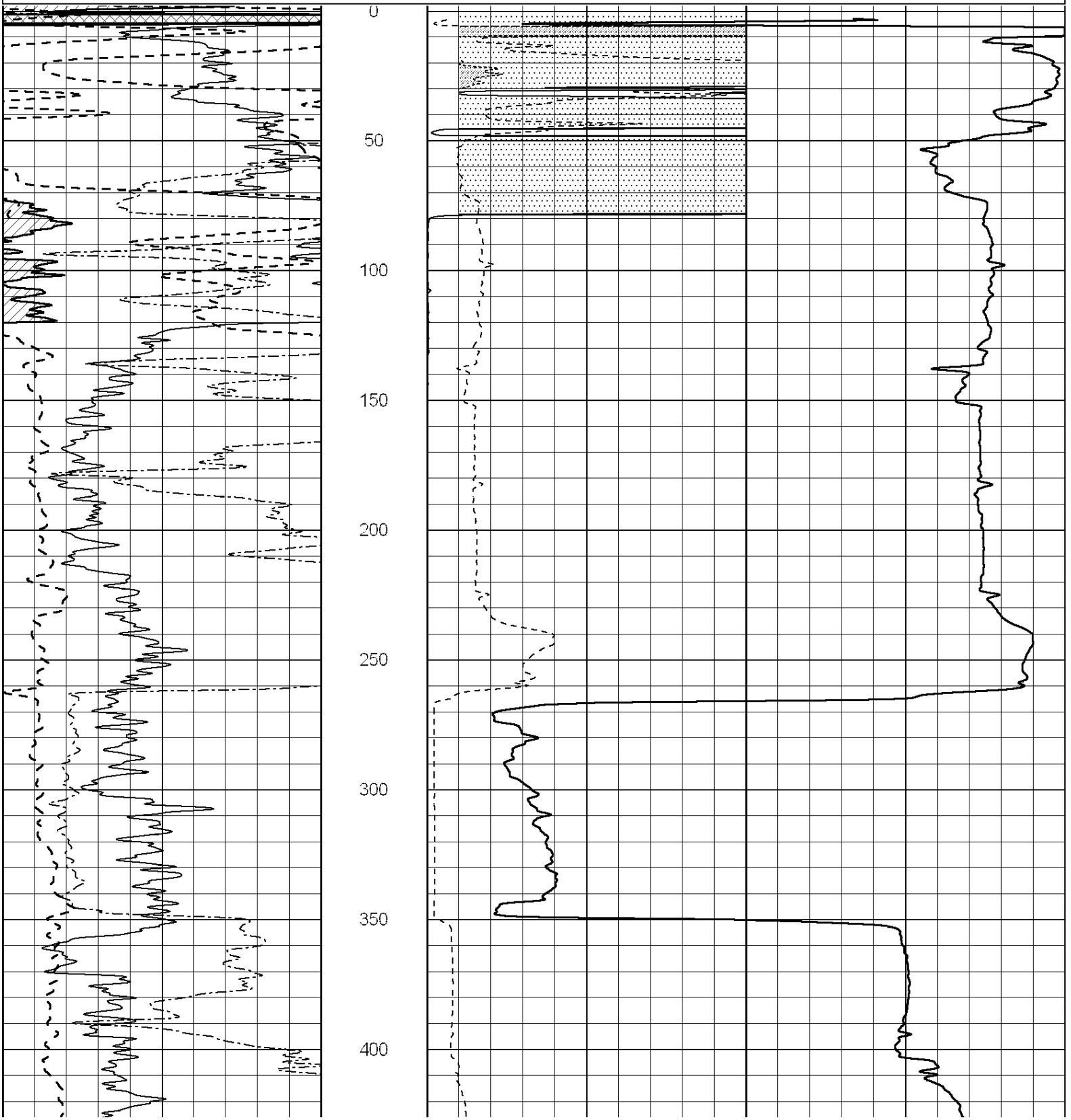
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
YOCEMENTO & RIVERVIEW RD., 3/4 E. TO FARM DRIVE, S. INTO AND BACK WEST

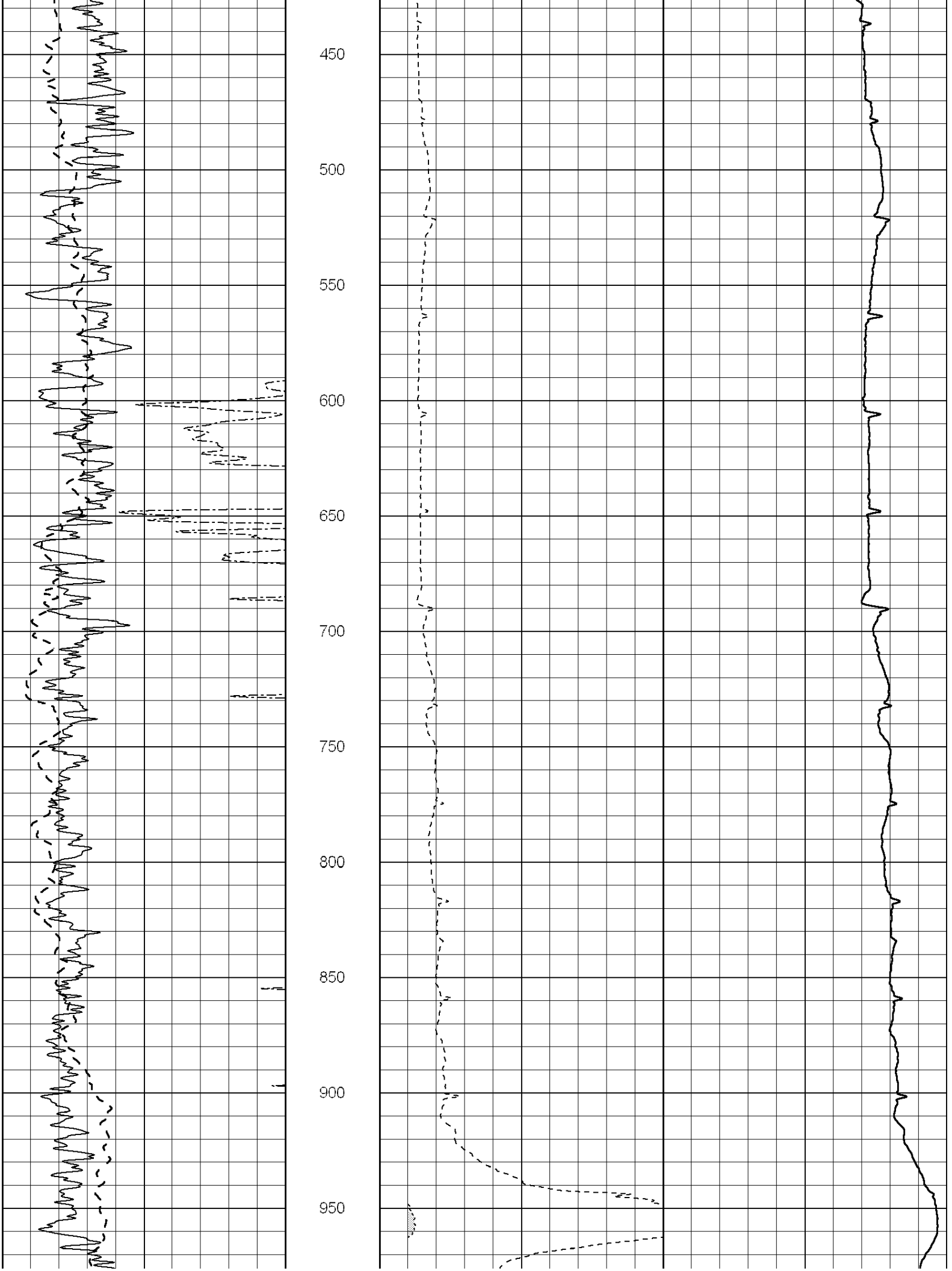
MAIN SECTION

Database File:	3727ddn.db
Dataset Pathname:	pass3.10
Presentation Format:	dil2
Dataset Creation:	Sat Jun 08 04:34:26 2019 by Calc SOC 120430
Charted by:	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
-100	SP (mV)	100
0	RWA (Ohm-m)	1

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

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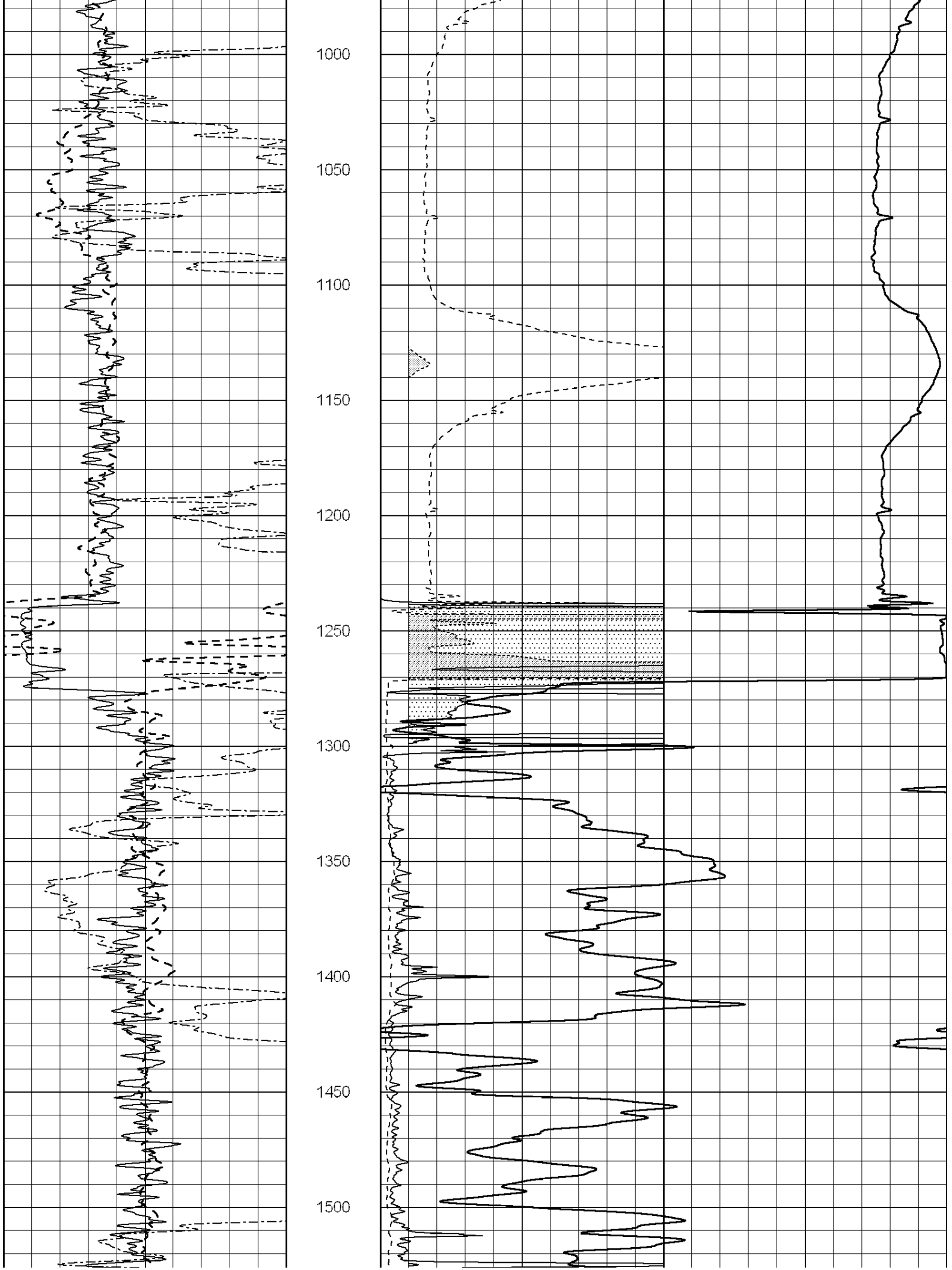
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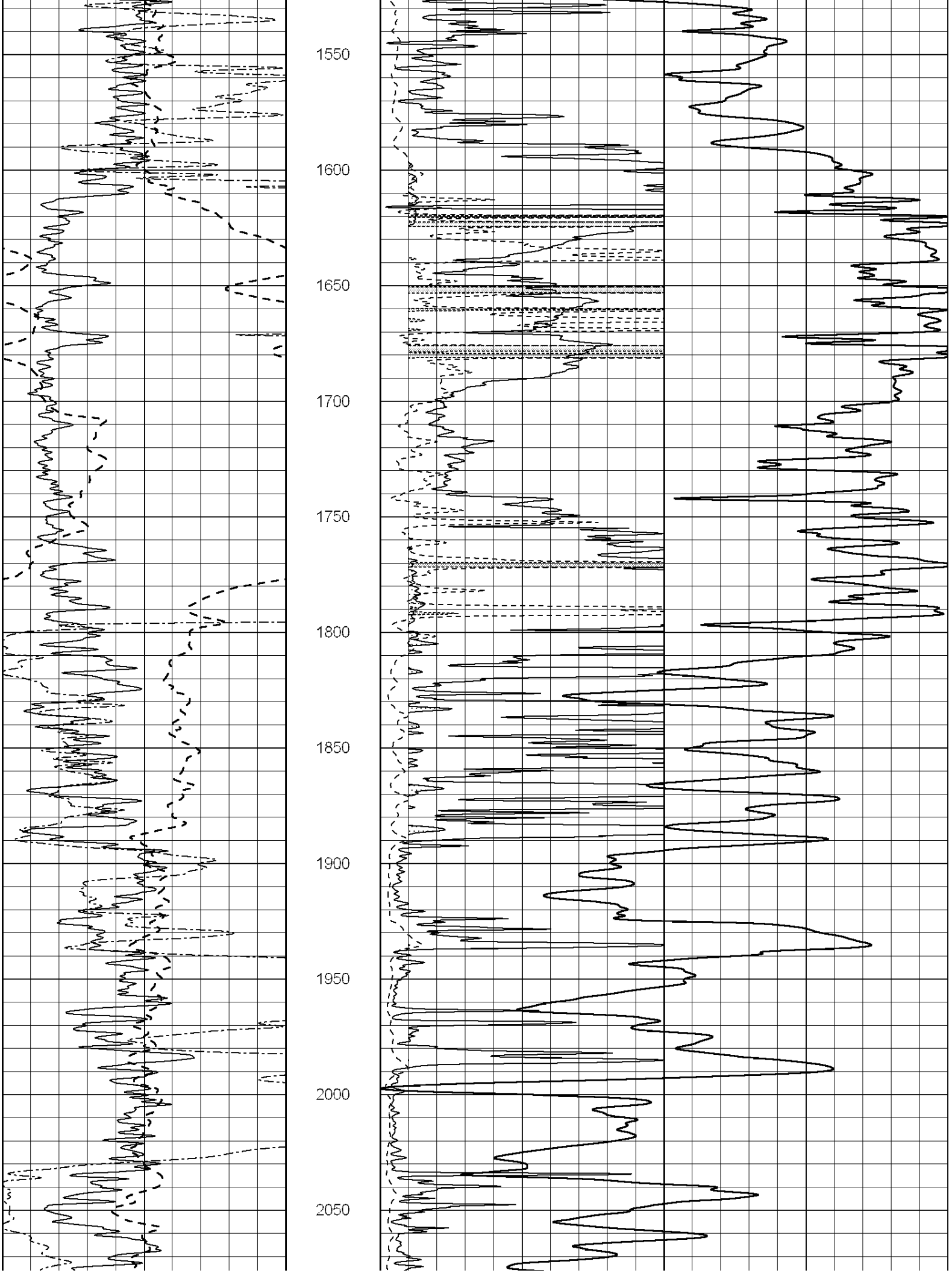
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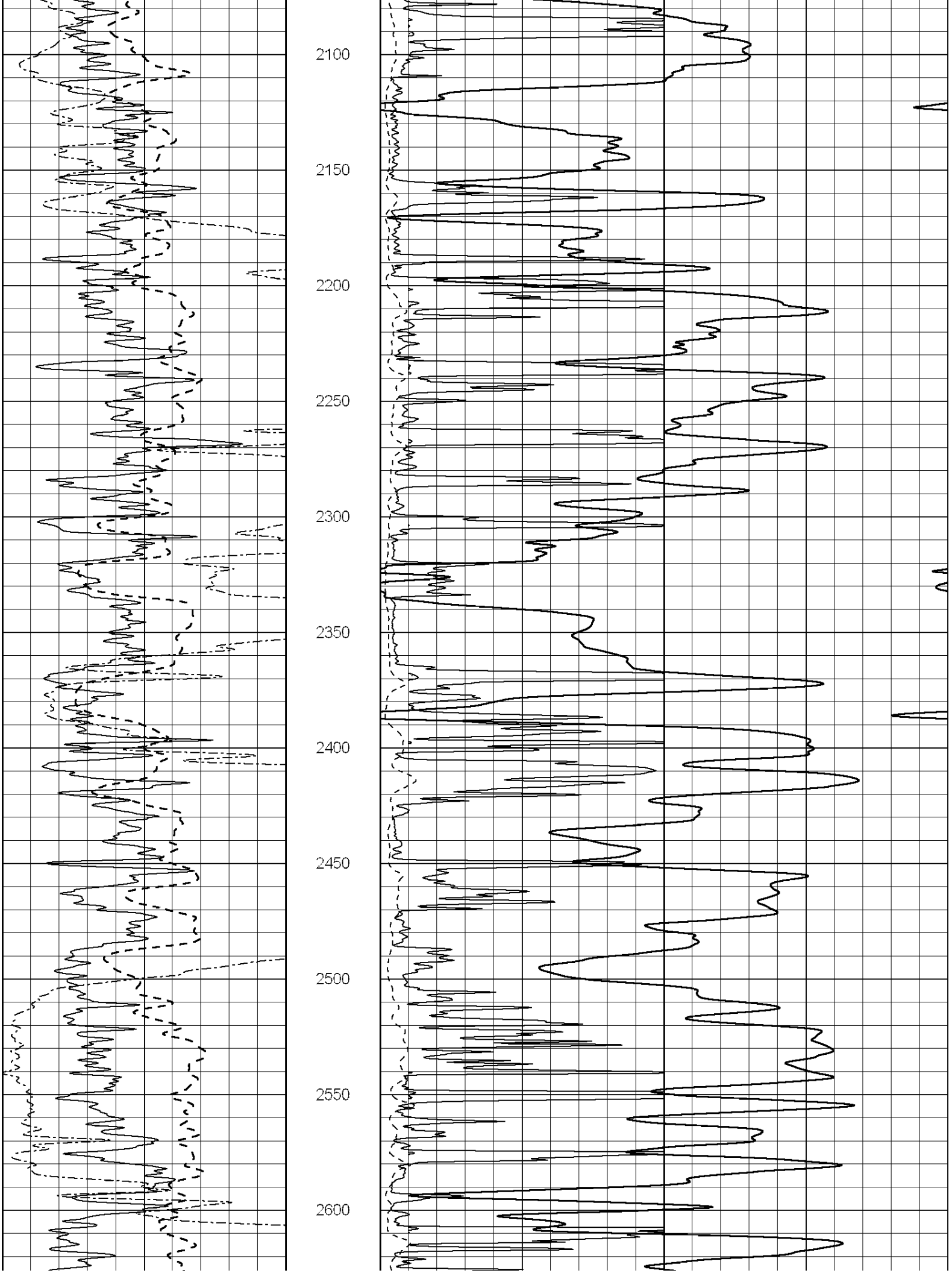
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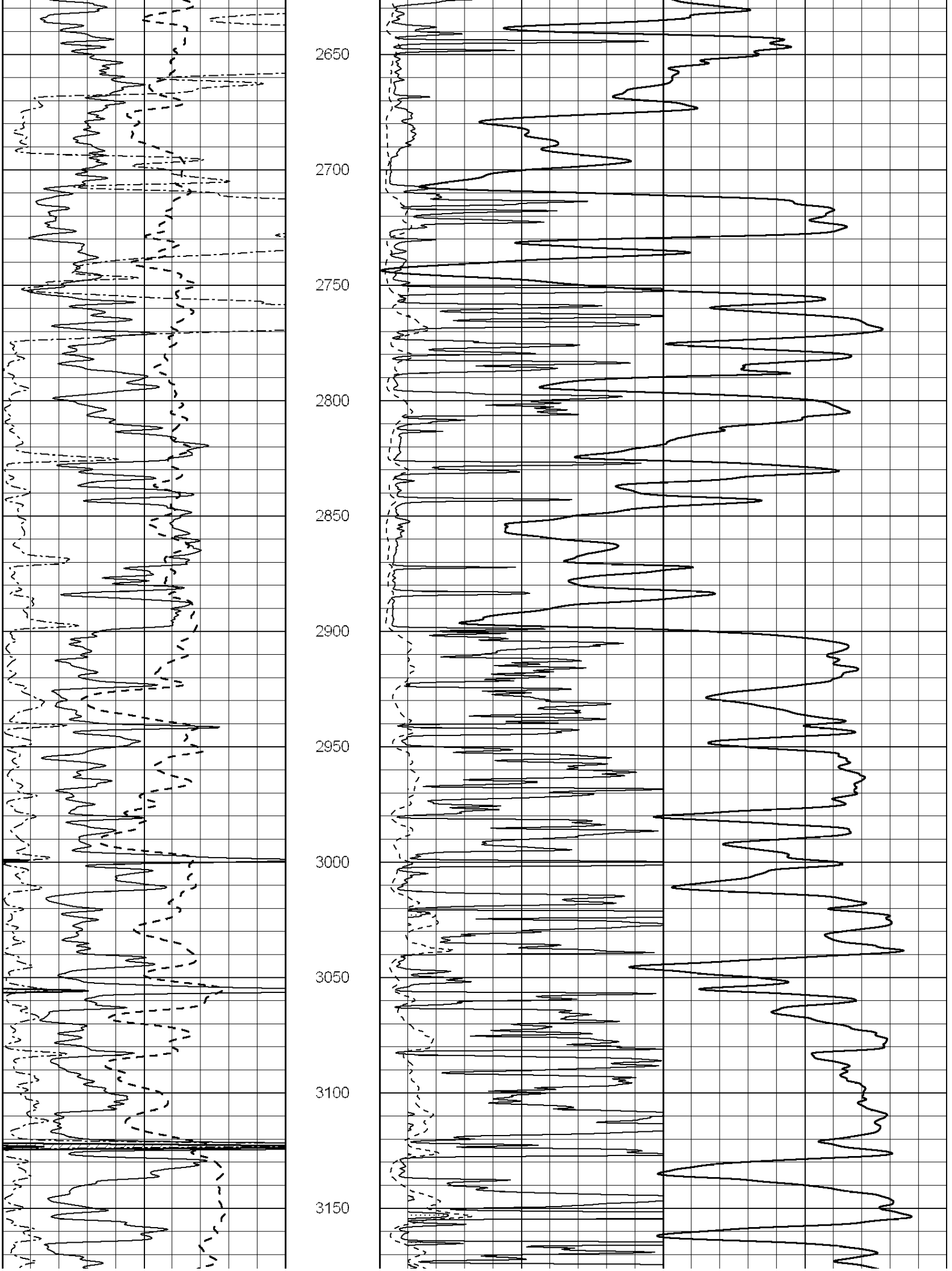
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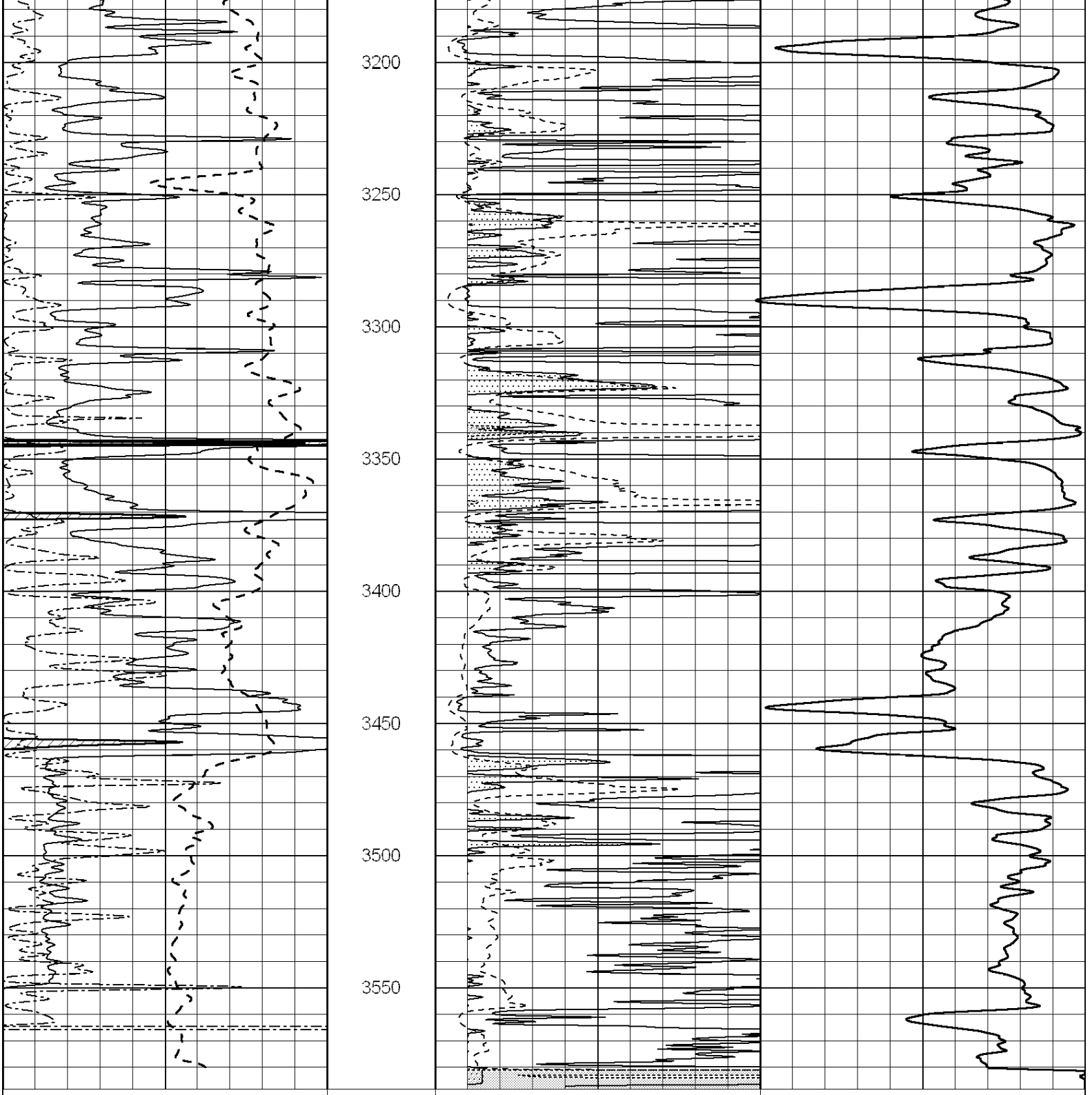


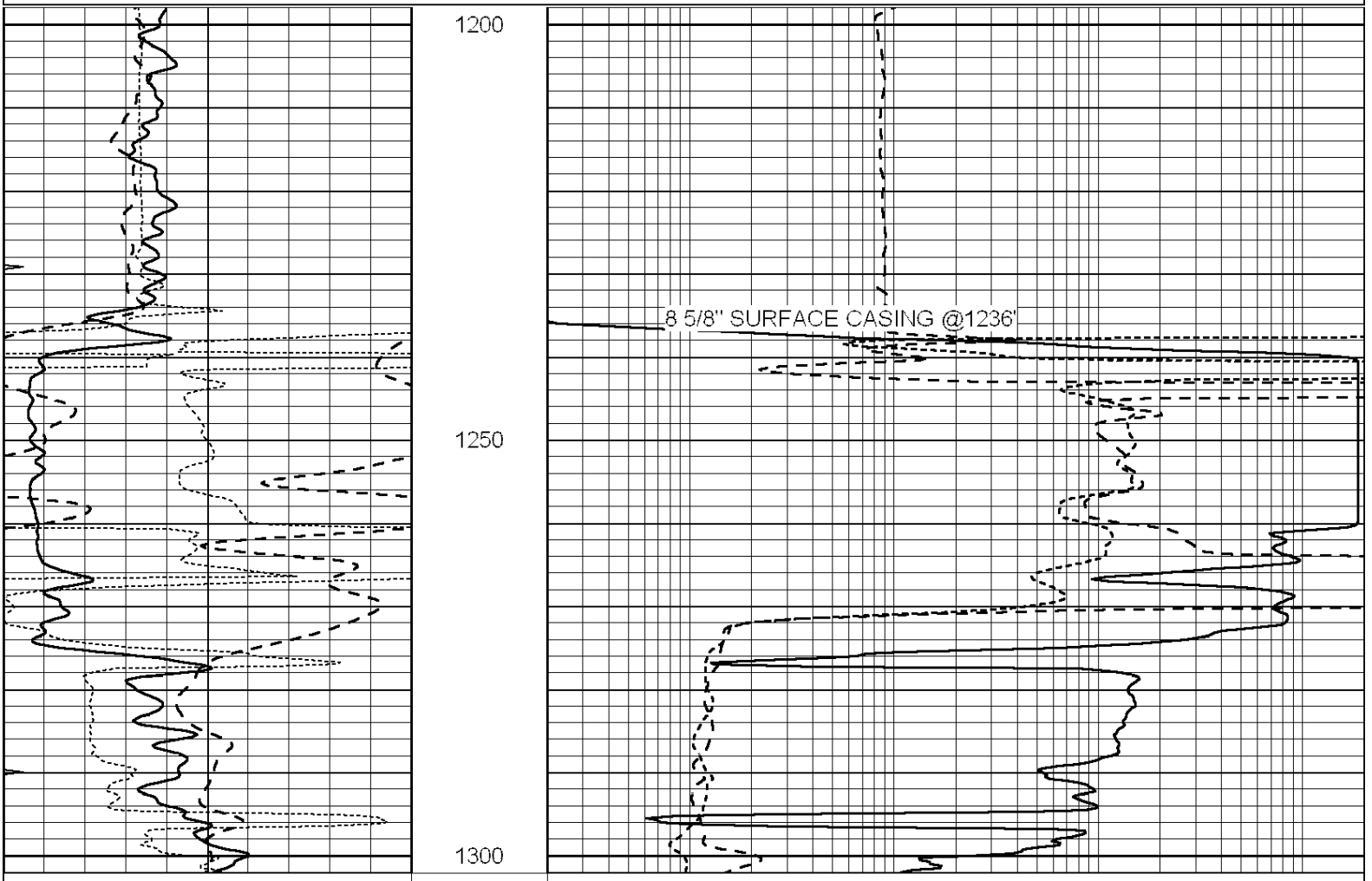
ANHYDRITE

Database File: 3727ddn.db

Dataset Pathname: pass3.11
Presentation Format: _dil
Dataset Creation: Sat Jun 08 04:39:35 2019 by Calc SOC 120430
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



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

MAIN SECTION

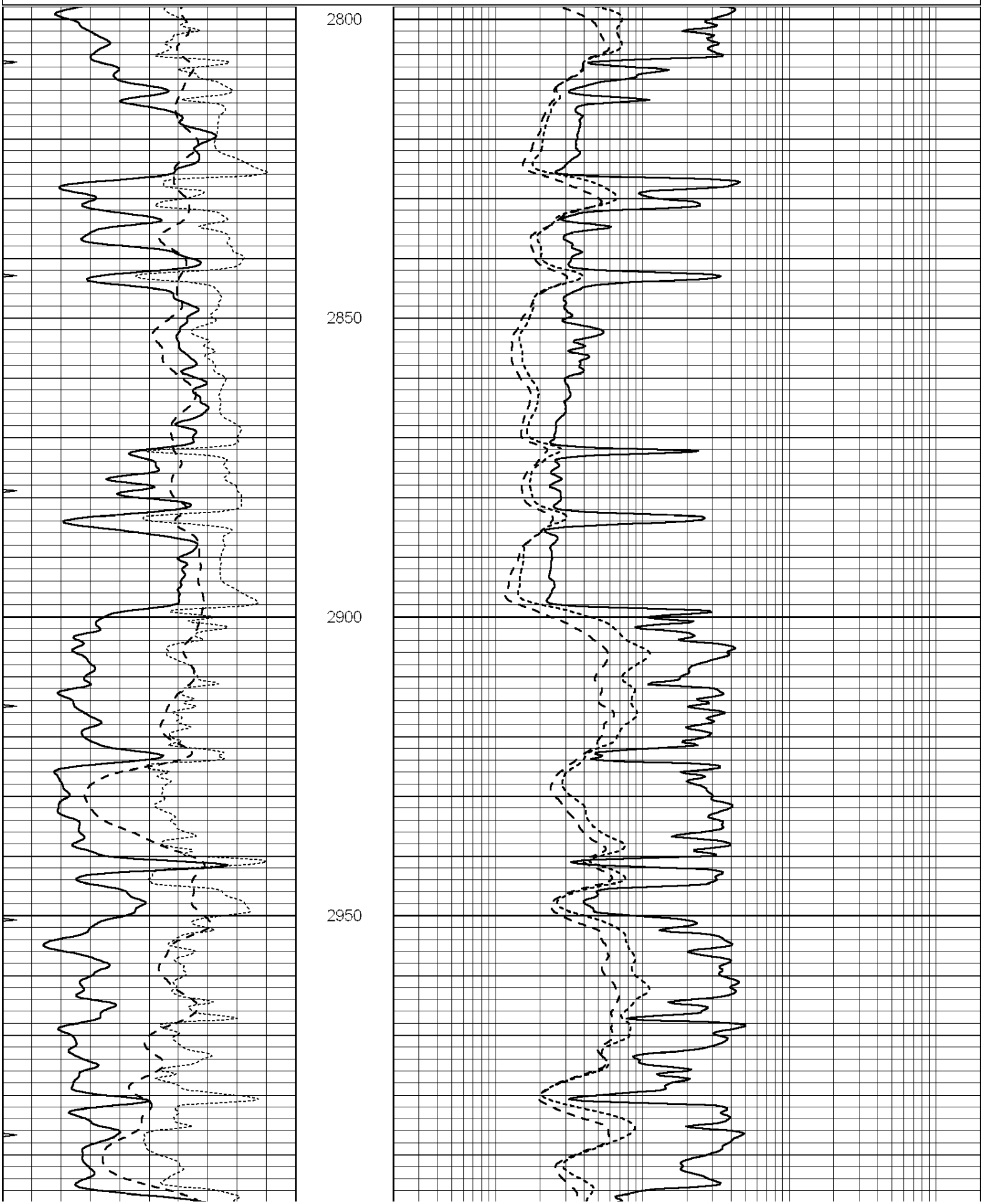
Database File: 3727ddn.db
Dataset Pathname: pass3.10
Presentation Format: _dil
Dataset Creation: Sat Jun 08 04:34:26 2019 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:240

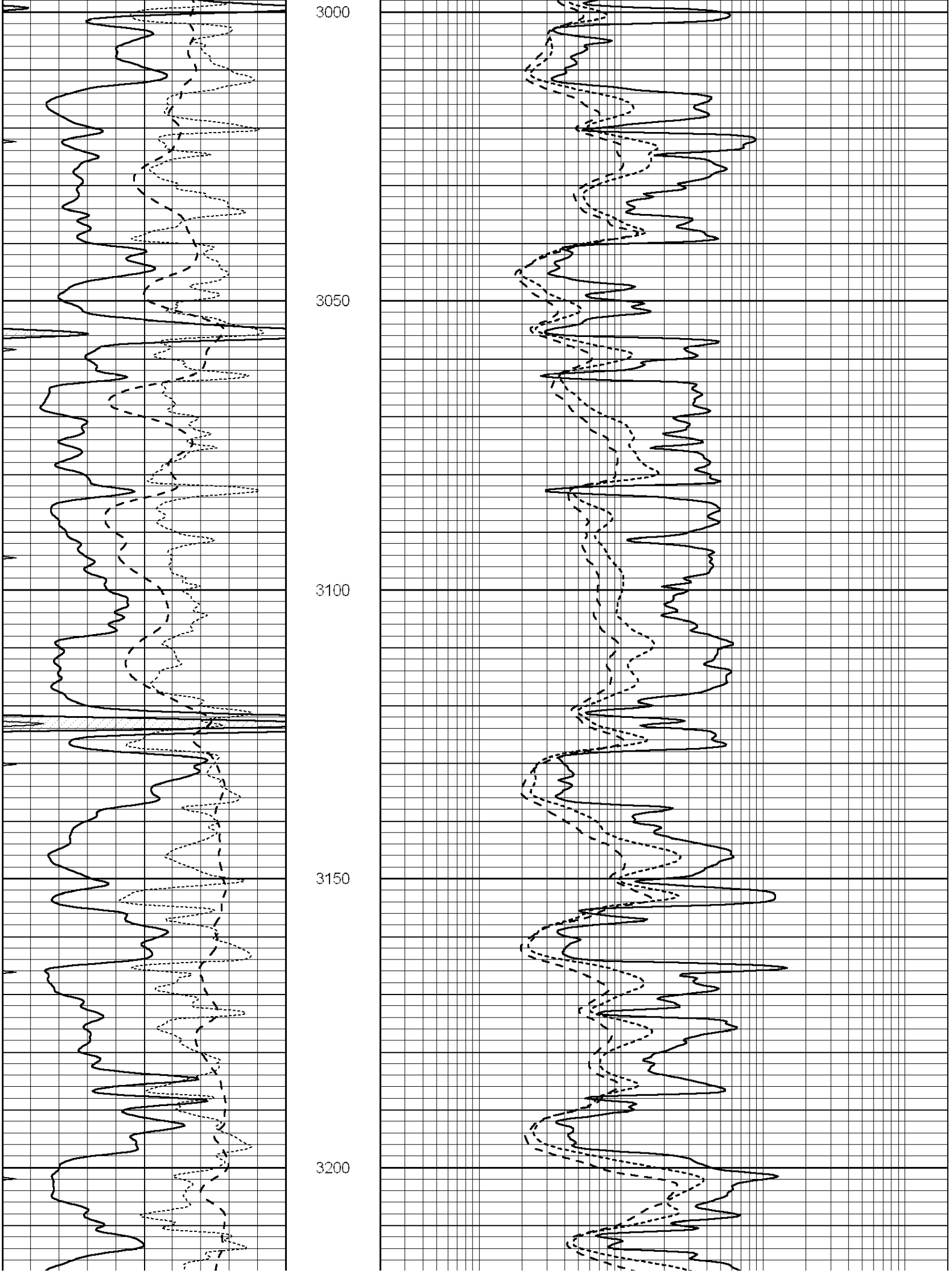
0	GAMMA RAY (GAPI)	150

0.2	SHALLOW GUARD (Ohm-m)	2000

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

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

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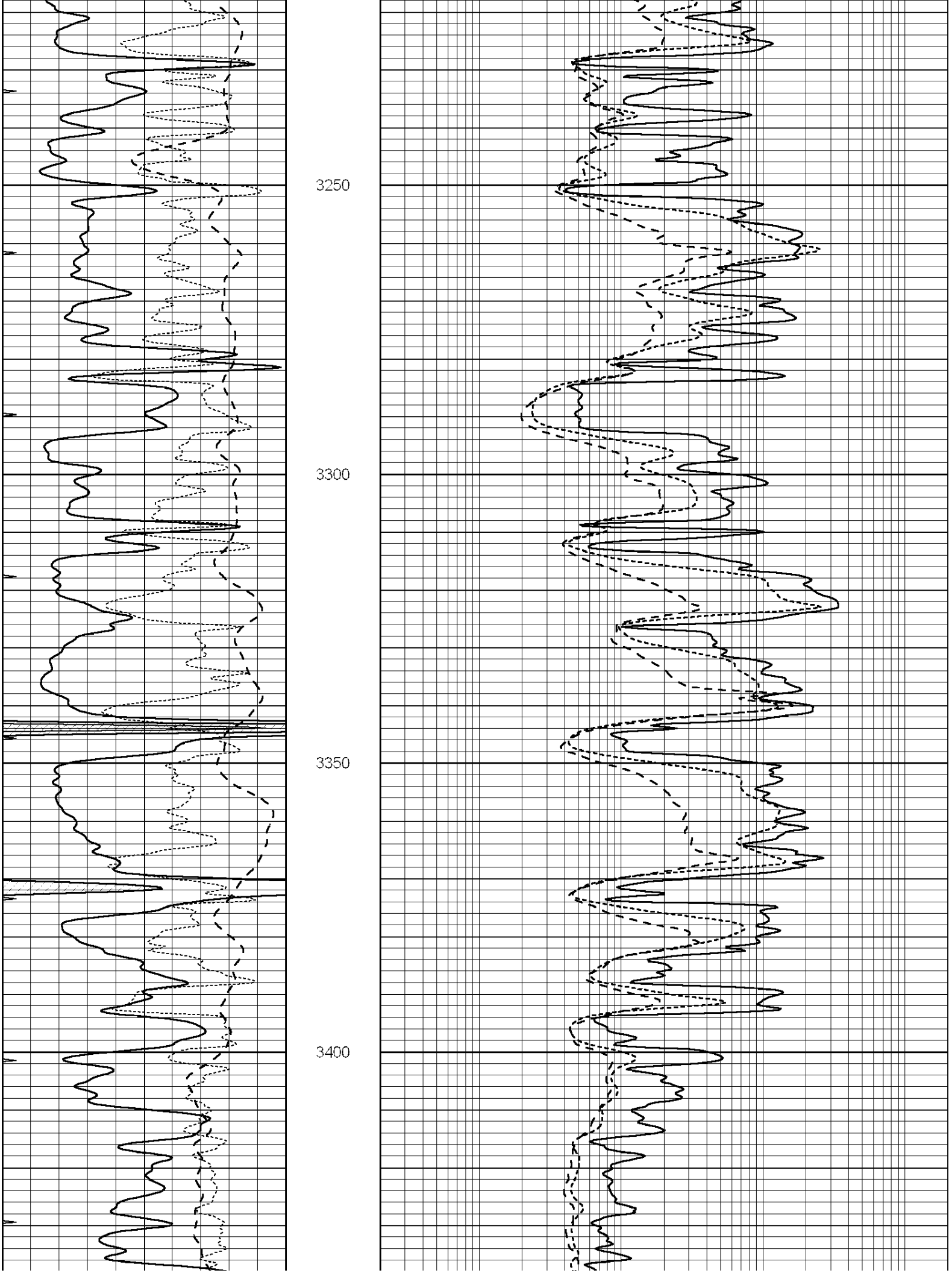
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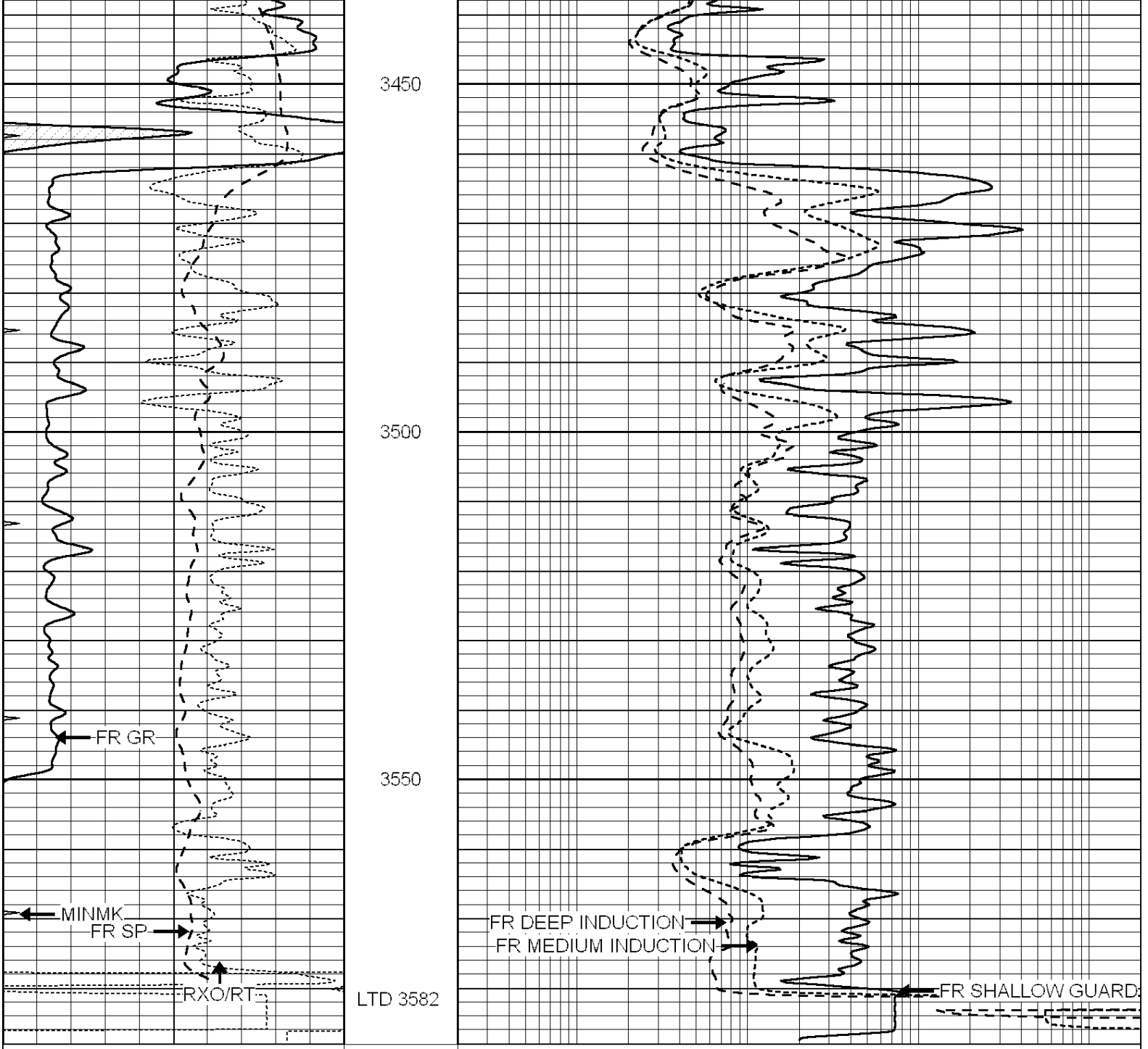
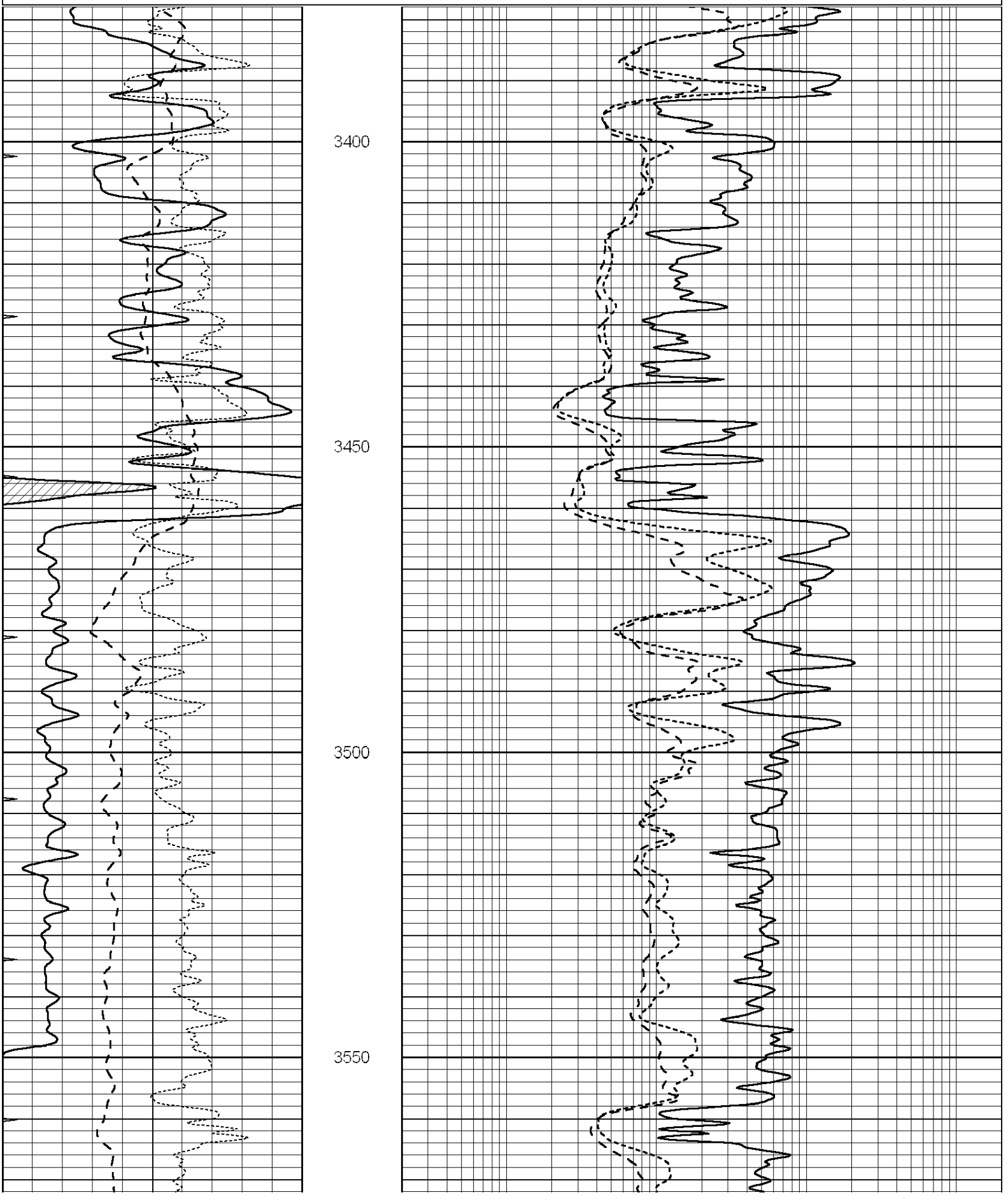


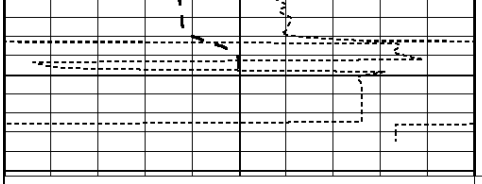
REPEAT SECTION

Database File:	3727ddn.db
Dataset Pathname:	pass2.1R
Presentation Format:	_dil
Dataset Creation:	Sat Jun 08 05:11:57 2019
Charted by:	Depth in Feet scaled 1:240

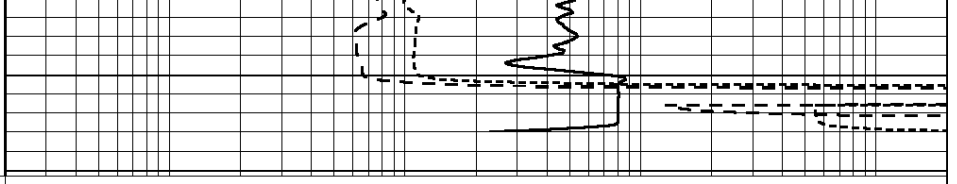
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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





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

Calibration Report

Database File: 1598ddn.db
Dataset Pathname: pass4
Dataset Creation: Wed Aug 30 02:13:00 2017 by Log SOC 120430

Dual Induction Calibration Report

Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Wed Aug 30 00:06:33 2017
Downhole Cal Performed:	Mon Jul 28 12:02:56 2008
After Survey Verification Performed:	Mon Jul 28 12:02:56 2008

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	620.000	0.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	675.000	-44.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Litho Density Calibration Report

Serial: 002 Model: PRB

Master Calibration

Performed Mon Aug 21 11:27:42 2017

	Background	Magnesium	Aluminum	Sandstone

Window 1	837.1	10632.5	2945.1	12110.1	cps
Window 2	772.0	9117.4	2570.1	10197.3	cps
Window 3	631.7	4669.0	1481.9	5042.9	cps
Window 4	187.0	187.5	185.9	189.9	cps
Long Space	0.0	8345.4	1798.1	9425.3	cps
Short Space	1.1	1927.9	1285.9	2050.2	cps
Rho		1.7100	2.5960	1.3800	g/cc
Pe		0.0000	2.5700	1.5500	

Rib Angle	: 45.2	Rib Slope	: 1.008	Density/Spine Ratio	: 0.558
Spine Angle	: 75.2	Spine Slope	: 3.790	Spine Intercept	: -19.6

Before Survey Verification — Performed Wed Dec 31 18:00:00 1969

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

After Survey Verification — Performed Wed Dec 31 18:00:00 1969

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

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: 070558
Tool Model: OPEN_GR
Performed: Wed May 31 00:09:32 2017

Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2800	GAPI/cps

COMPENSATED DENSITY / NEUTRON LOG

Company	MUSTANG ENERGY CORPORATION
Well	VINE "E" #8
Field	SOLOMON
County	ELLIS
State	KANSAS

Company MUSTANG ENERGY CORPORATION

Well VINE "E" #8

Field SOLOMON

County ELLIS State KANSAS

Location: API # : 15-051-26955-0000

1420' FNL & 1780' FEL
NW - NE - SW - NE
SEC 22 TWP 11S RGE 19W

Other Services: DIL/MEL

Permanent Datum	GROUND LEVEL	Elevation 1935	Elevation
Log Measured From	KELLY BUSHING	8' A.G.L.	K.B. 1943
Drilling Measured From	KELLY BUSHING		D.F. 1941
			G.L. 1935

Date	6/7/19			
Run Number	ONE			
Depth Driller	3576			
Depth Logger	3582			
Bottom Logged Interval	3558			
Top Log Interval	2800			
Casing Driller	8 5/8"@1235'			
Casing Logger	1236			
Bit Size	7 7/8"			
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6,000 PPM		
Density / Viscosity	9.1/53			
pH / Fluid Loss	10.5/8.8			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	.550@90F			
Rmf @ Meas. Temp	.413@90F			
Rmc @ Meas. Temp	.660@90F			
Source of Rmf / Rmc	MEASUREMENT			
Rm @ BHT	.442@112F			
Time Circulation Stopped	2 HOURS			
Time Logger on Bottom	3:15 A.M.			
Maximum Recorded Temperature	112F			
Equipment Number	922339			
Location	HAYS, KANSAS			
Recorded By	JEFF LUEBBERS			
Witnessed By	CAMERON BRIN			

<<< Fold Here >>>

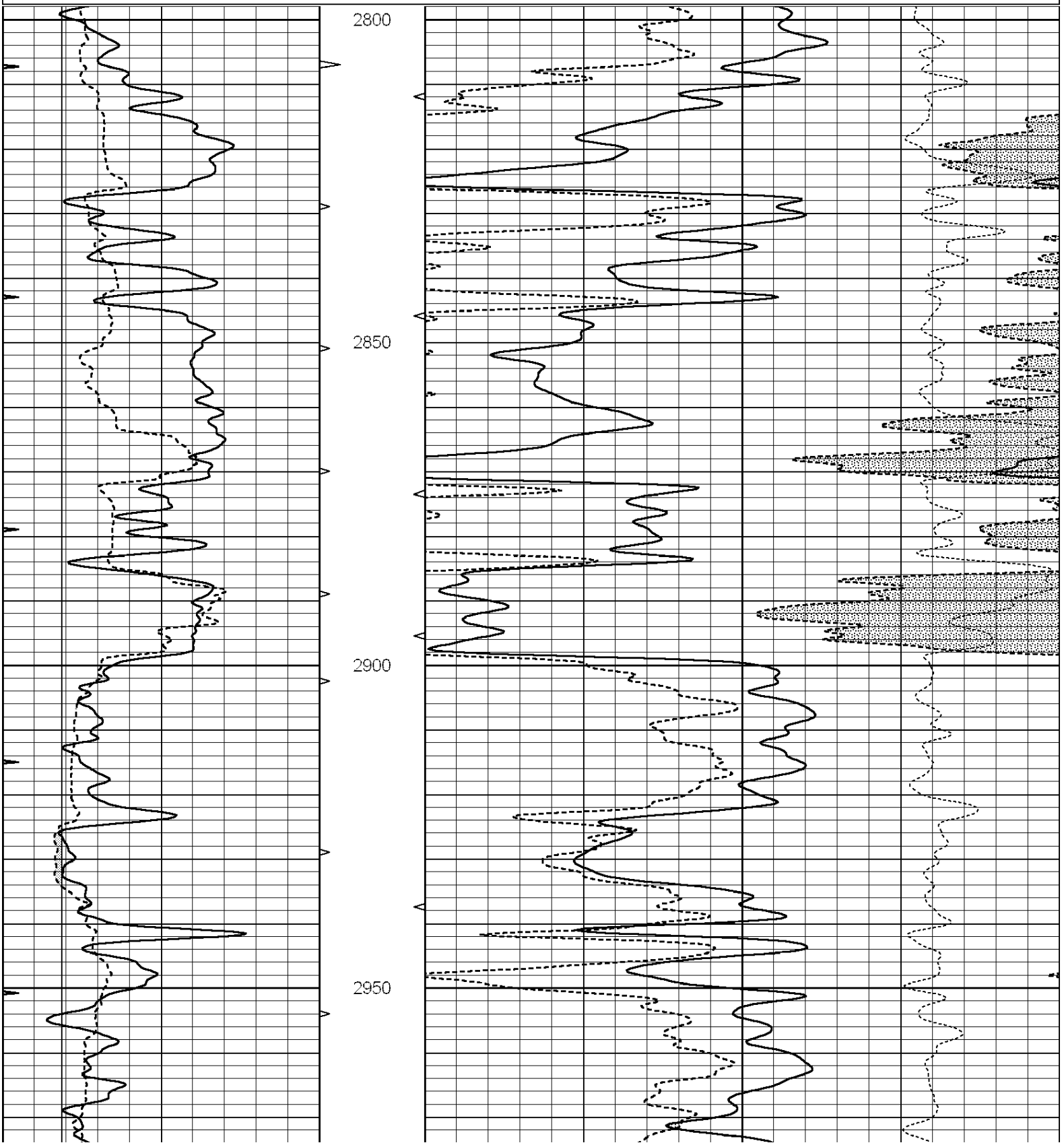
Comments

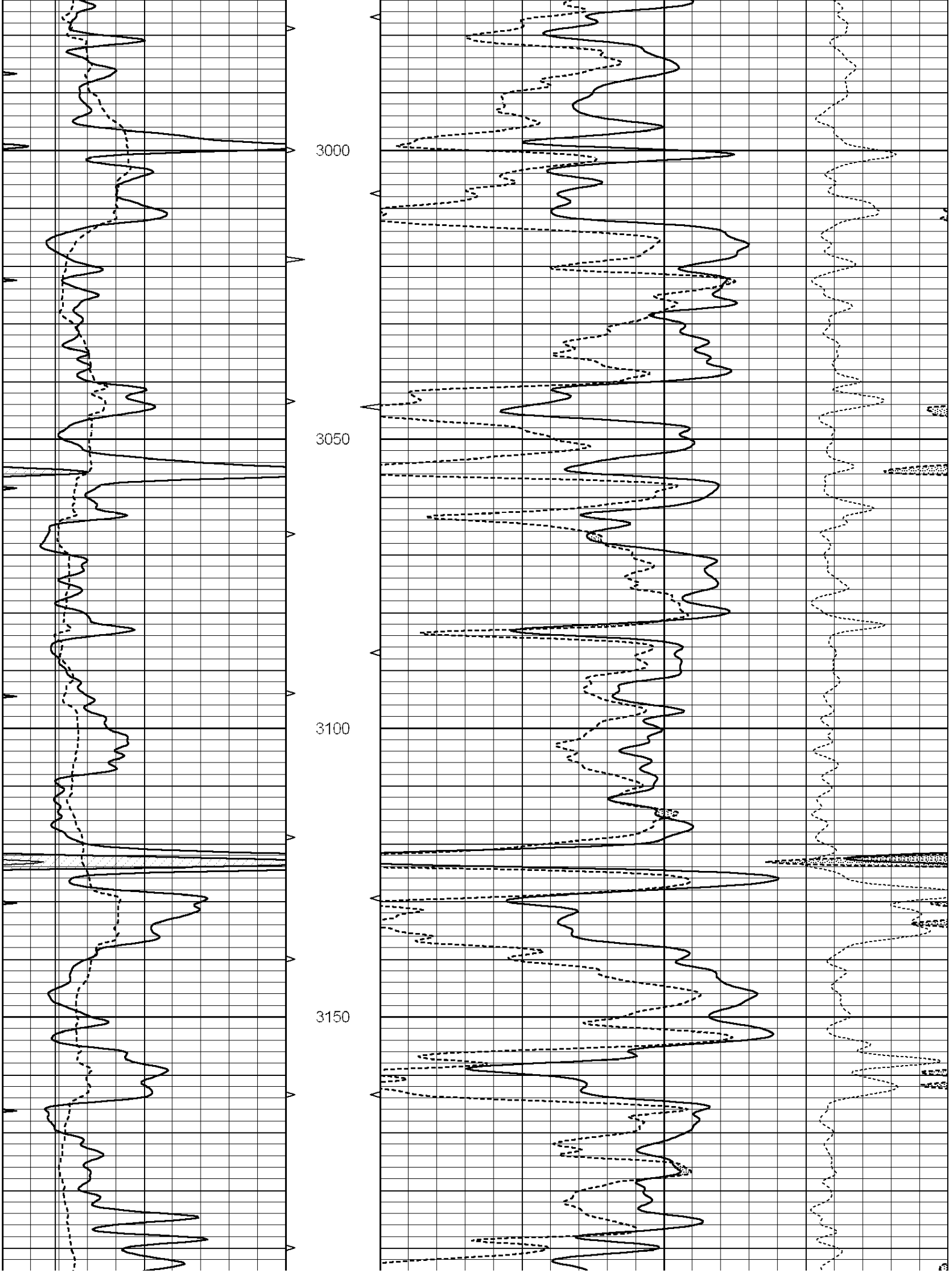
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
YOCEMENTO & RIVERVIEW RD., 3/4 E. TO FARM DRIVE, S. INTO AND BACK WEST

MAIN SECTION

Database File:	3727ddn.db
Dataset Pathname:	pass3.13
Presentation Format:	den_neu
Dataset Creation:	Sat Jun 08 06:02:04 2019
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	

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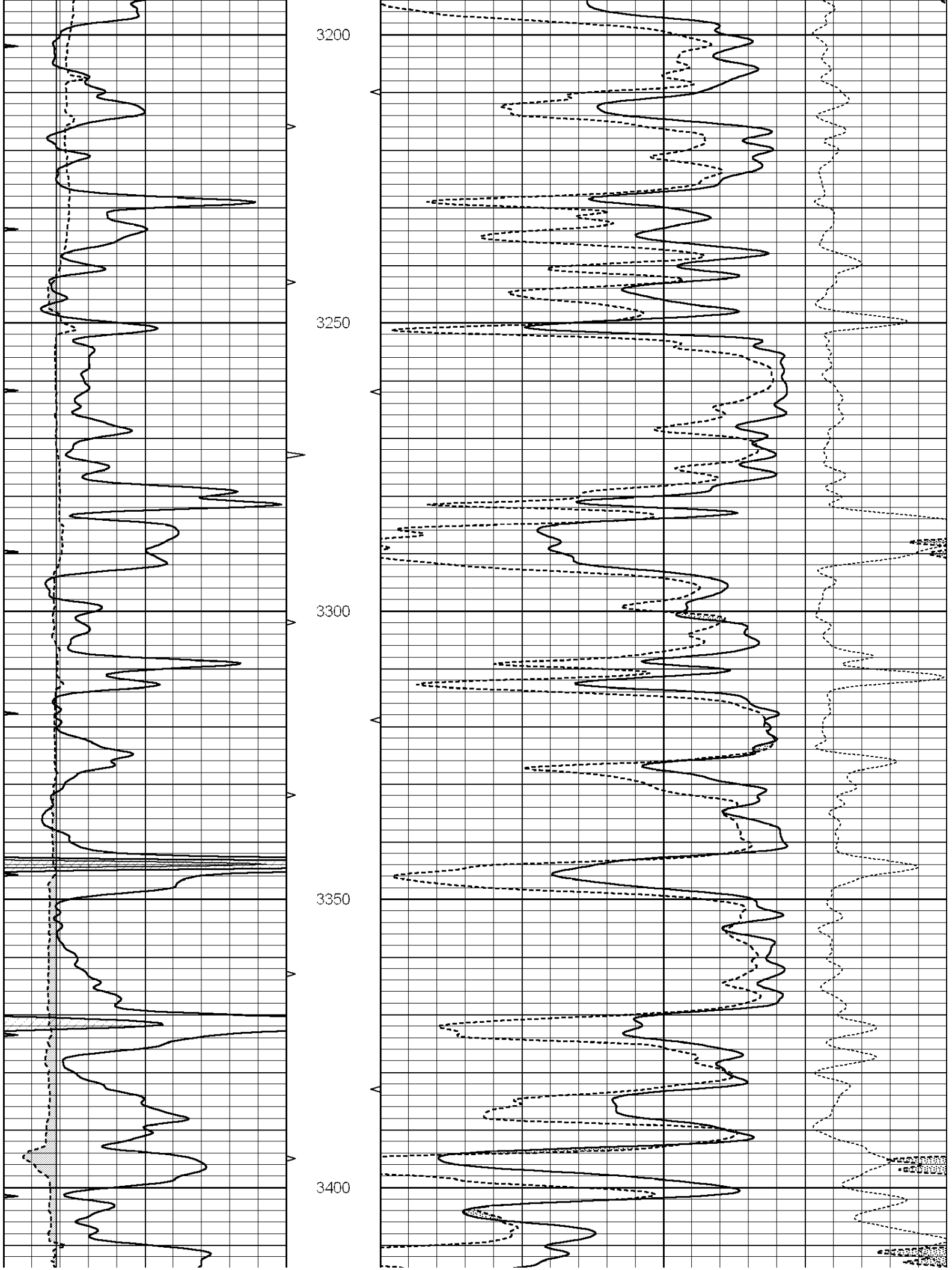
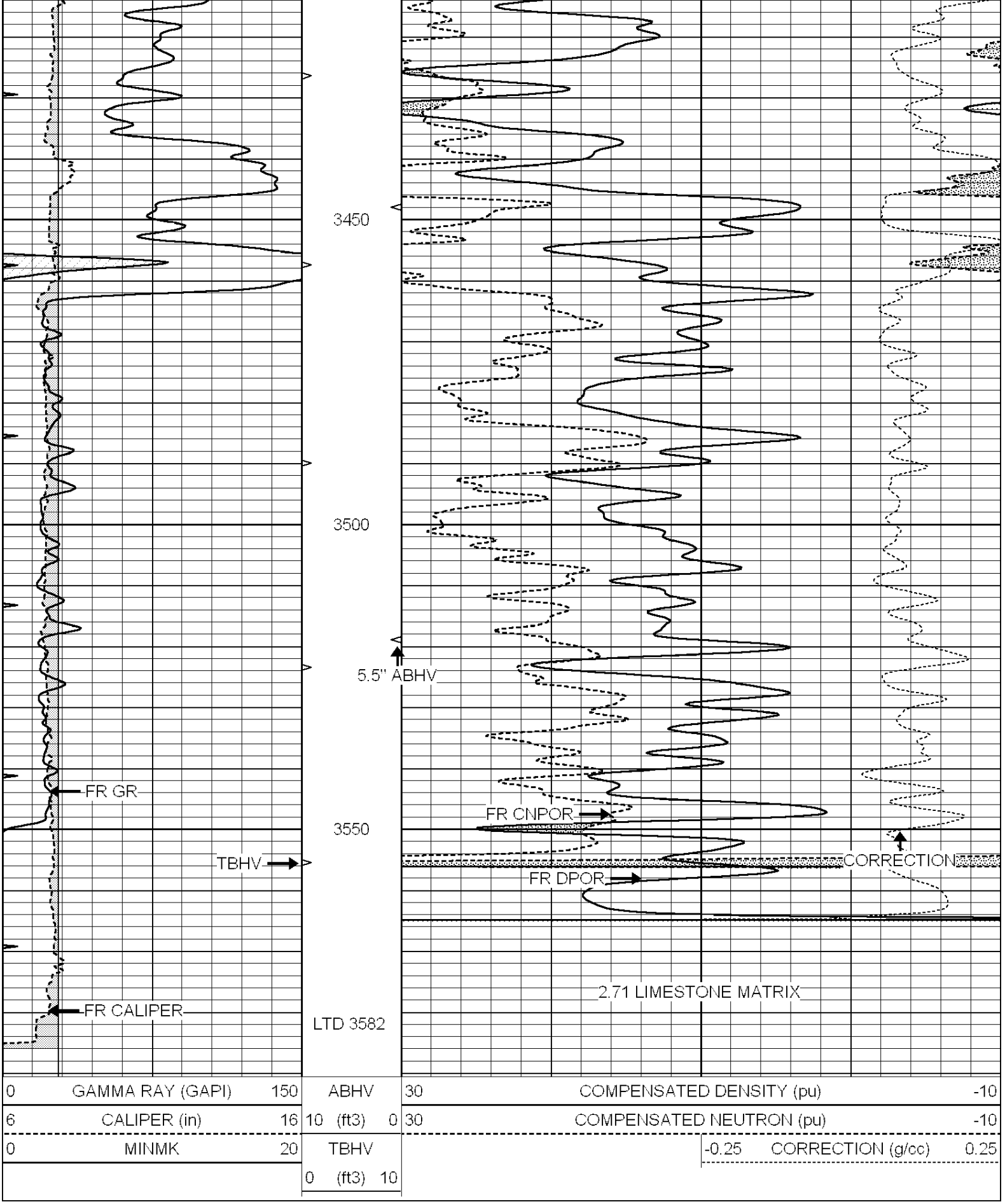
3100
3150

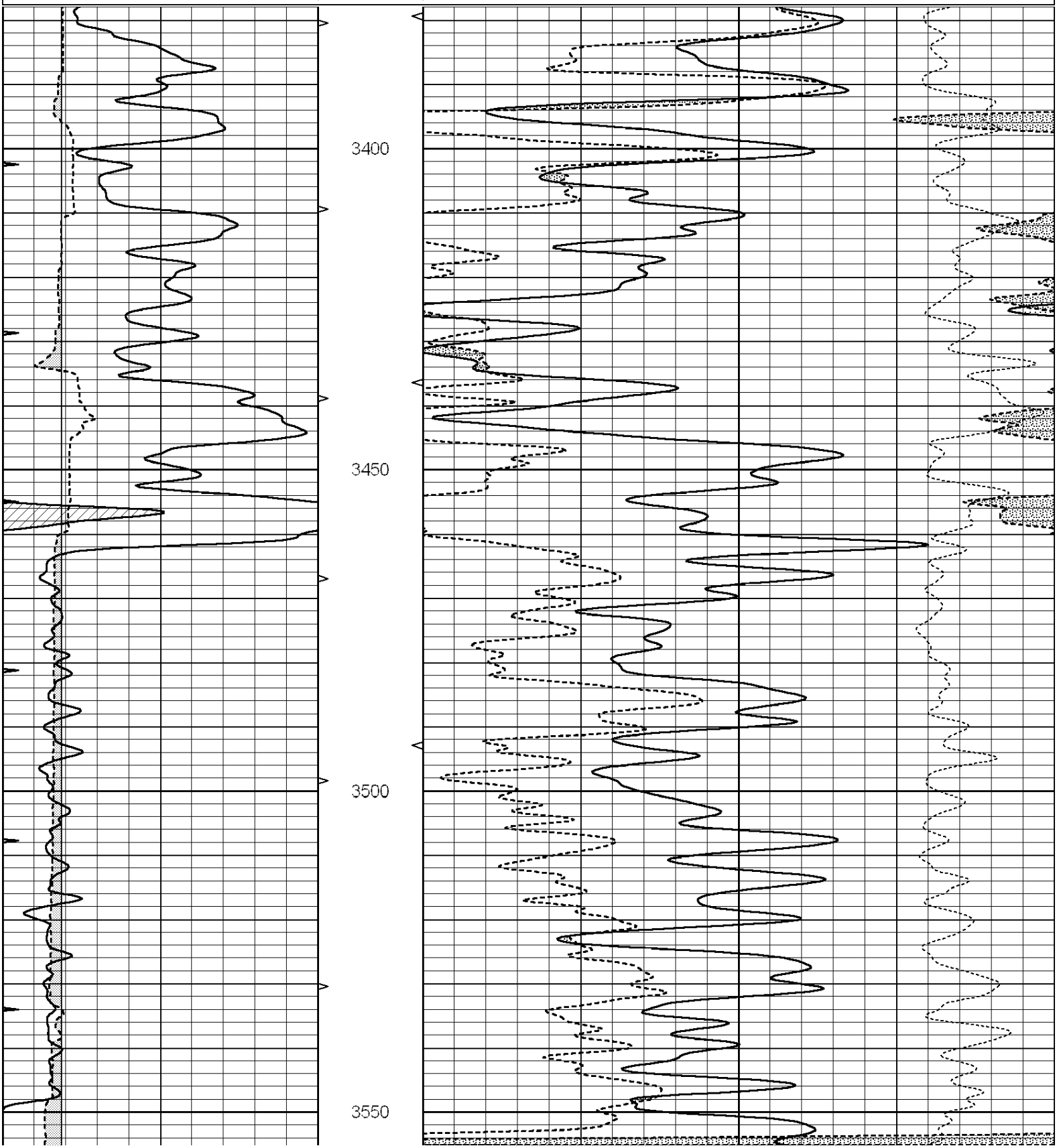

3200
3250
3300
3350
3400

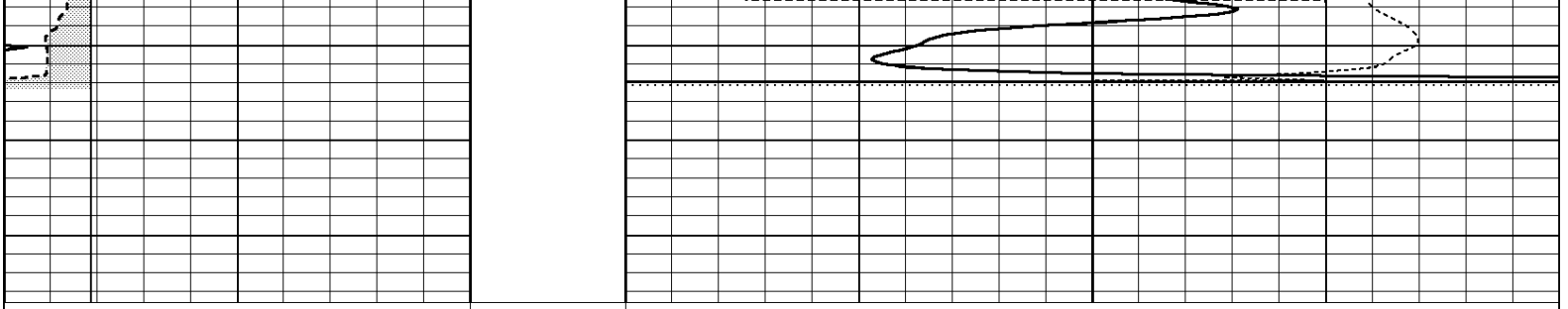


REPEAT SECTION

Database File:	3727ddn.db
Dataset Pathname:	pass2.1P
Presentation Format:	den_neu
Dataset Creation:	Sat Jun 08 05:14:44 2019 by Calc SOC 120430
Charted by:	Depth in Feet scaled 1:240

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



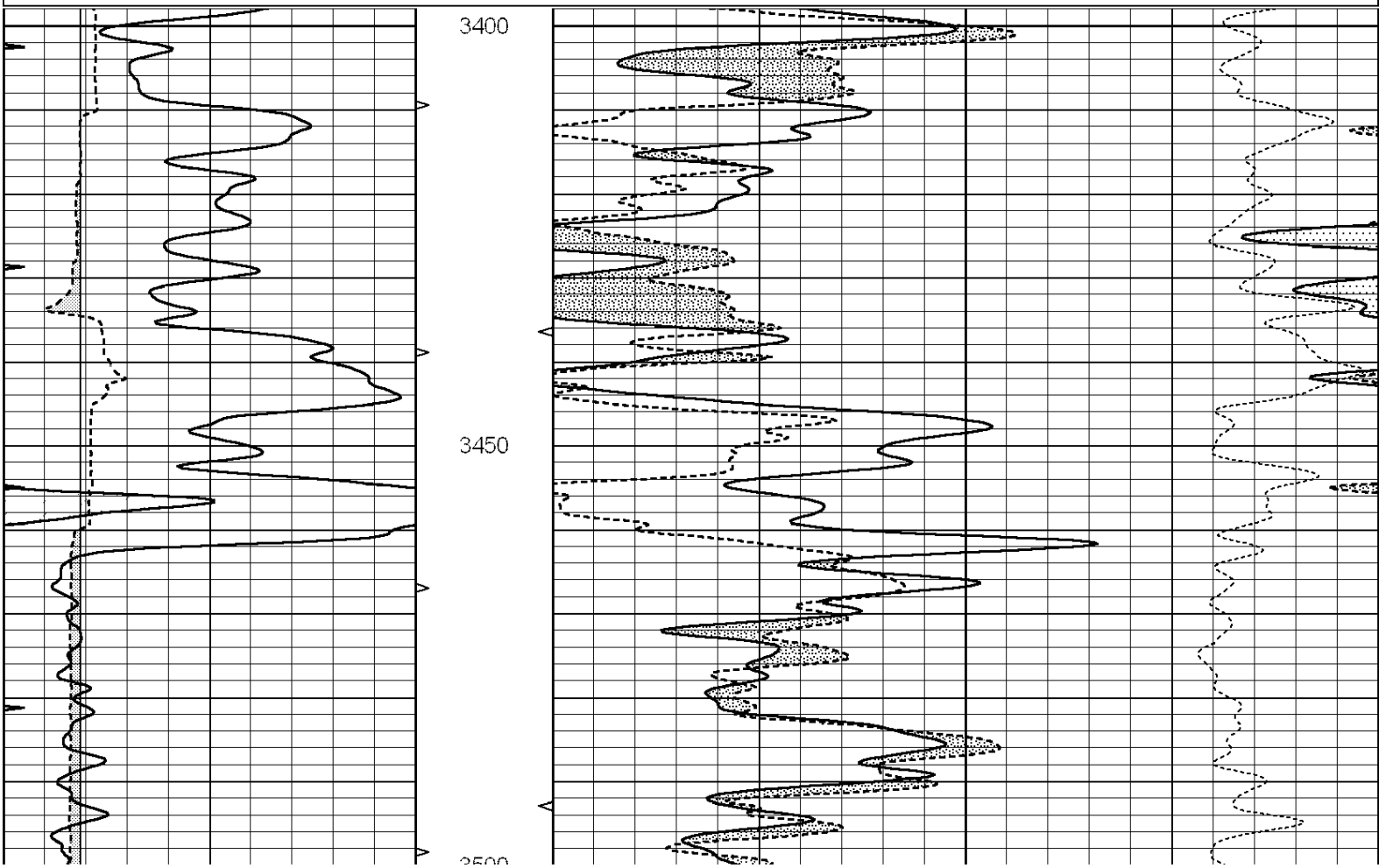


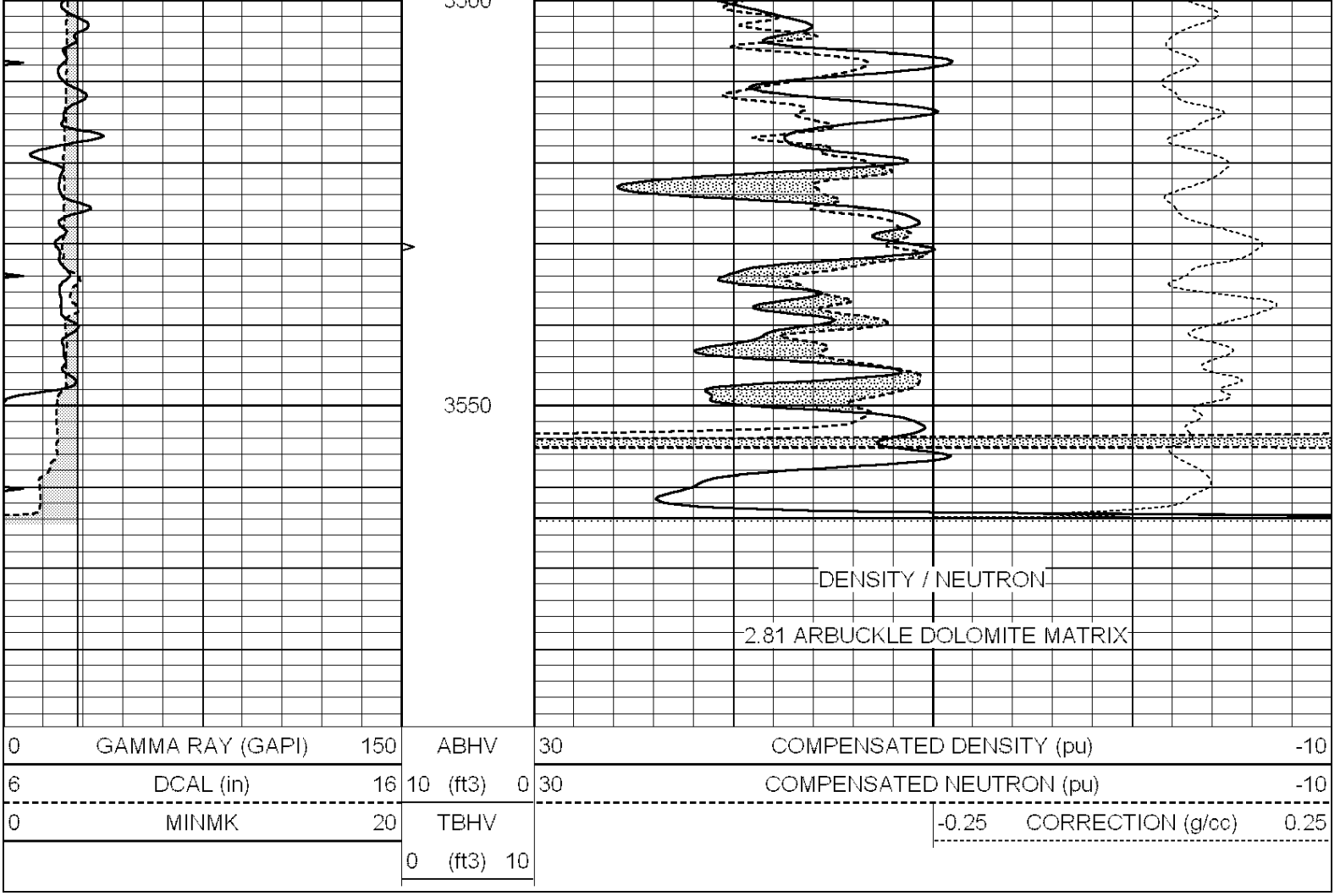
0	GAMMA RAY (GAPI)	150	ABHV		30	COMPENSATED DENSITY (pu)	-10
6	DCAL (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV			-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10			

DOLOMITE MATRIX

Database File: 3727ddn.db
Dataset Pathname: pass2.1D
Presentation Format: den_neu
Dataset Creation: Sat Jun 08 03:53:10 2019
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV		30	COMPENSATED DENSITY (pu)	-10
6	DCAL (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: 1598ddn.db
Dataset Pathname: pass4
Dataset Creation: Wed Aug 30 02:13:00 2017 by Log SOC 120430

Dual Induction Calibration Report

Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Wed Aug 30 00:06:33 2017
Downhole Cal Performed:	Mon Jul 28 12:02:56 2008
After Survey Verification Performed:	Mon Jul 28 12:02:56 2008

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	620.000	0.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	675.000	-44.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		

LL3				1400.000	Ohm-m
	0.000	V		20.000	Ohm-m
	-7.200	V		4000.000	mmho-m

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Litho Density Calibration Report

Serial: 002 Model: PRB

Master Calibration — Performed Mon Aug 21 11:27:42 2017

	Background	Magnesium	Aluminum	Sandstone	
Window 1	837.1	10632.5	2945.1	12110.1	cps
Window 2	772.0	9117.4	2570.1	10197.3	cps
Window 3	631.7	4669.0	1481.9	5042.9	cps
Window 4	187.0	187.5	185.9	189.9	cps
Long Space	0.0	8345.4	1798.1	9425.3	cps
Short Space	1.1	1927.9	1285.9	2050.2	cps
Rho		1.7100	2.5960	1.3800	g/cc
Pe		0.0000	2.5700	1.5500	

Rib Angle	: 45.2	Rib Slope	: 1.008	Density/Spine Ratio	: 0.558
Spine Angle	: 75.2	Spine Slope	: 3.790	Spine Intercept	: -19.6

Before Survey Verification — Performed Wed Dec 31 18:00:00 1969

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

After Survey Verification — Performed Wed Dec 31 18:00:00 1969

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

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:	070558	
Tool Model:	OPEN_GR	
Performed:	Wed May 31 00:09:32 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2800	GAPI/cps

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-28861

Phone 785-483-2025 | Home Office P.O. Box 32 Russell, KS 67665 | No. 1325

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-1-19	22	11	19	Ellis	KS		800 PM

Lease Viae E	Well No. #8	Location	Yocemento N to River View 1/2 E Sinto
Contractor Discovery Drilling Co. Inc.		Owner	
Type Job Production String			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Hole Size 7 7/8	T.D. 3582.03	Charge To	Mustang Energy Corp.
Csg. 5 1/2 15.5	Depth 3579.03	Street	
Tbg. Size	Depth	City	State
Tool	Depth		The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. 42.30	Shoe Joint 42.30	Cement Amount Ordered	180 com 10% salt 5% gil 1/4 Flo-seal + 500 gal mud Flush
Meas Line	Displace 84 1/2	Common	180

EQUIPMENT

Pumptrk 5	No.	Cementer / Helper	Tony P
Bulktrk	No.	Driver / Driver	Craig
Bulktrk 9	No.	Driver / Driver	Tim

Poz. Mix	
Gel.	
Calcium	
Hulls	
Salt	13
Flowseal	40#
Kol-Seal	750 #
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	200
Mileage	

JOB SERVICES & REMARKS

Remarks:

Rat Hole 30sk

Mouse Hole 15sk

Centralizers

Baskets

D/V or Port Collar

5 1/2 set @ 3579. Baffle @ 3536.70
Est. Circulation. Pump 500 gal mud clear
+ 10 BBL spacer. Plug Rathole + Mousehole.
Cement 5 1/2 with 135 sk. Clear
Lines + Displace Plug.
Plug landed @
Lift Pressure - 800 psi
Landed 5 1/2 latch down @
1,500 psi
Thanks!

FLOAT EQUIPMENT

~~Guide Shoe~~	Rotating Head
Centralizer	7 x 5 1/2
Baskets	1 x 5 1/2
AFU Inserts	
Float Shoe	1 x 5 1/2
Latch Down	1 & Plug x 5 1/2
Pumptrk Charge	Prod String
Mileage	18
Tax	
Discount	
Total Charge	

X
Signature [signature]

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-28861C

Phone 785-483-2025 Home Office P.O. Box 32 Russell, KS 67665 No. 1320

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6.2.19				Ellis	Ks		7:15 PM

Location Yocemento - N to river 1/2 e into.

Lease Vine "E" Well No. 8

Owner

Contractor Discovery

Type Job Long Surface.

Hole Size 12 1/4 T.D.

Csg. 8 5/8 #23 Depth

Tbg. Size Depth 1235'

Tool Depth

Cement Left in Csg. Shoe Joint 42.01

Meas Line Displace 75.87 BBL

To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Mustang Energy

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 460 sk com 3% cc 2% gel

EQUIPMENT

Pumptrk 5	No.	Cementer	Tony P
		Helper	
Bulktrk	No.	Driver	Craig
		Driver	
Bulktrk 21	No.	Driver	
		Driver	Tony L.

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

* Ran 8 5/8 on bottom broke circulation.
* mix 460 sk com 3% cc 2% gel
* Release Plug & Land Plug (WASH)
* Cement to Surface
* Shut Plug Retainer in.

Thanks!

X Signature

Common	460
Poz. Mix	
Gel.	9
Calcium	16
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	485
Mileage	

FLOAT EQUIPMENT

~~Guide Shoe~~	1 X Baffle plate 8 5/8
~~Centralizer~~	1 X Rubber Plug 8 5/8
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Long Surface
Mileage	15
Tax	
Discount	
Total Charge	

MUSTANG ENERGY CORPORATION

Scale 1:240 Imperial

Well Name:	VINE E #8		
Surface Location:	NW NE SW NE SEC. 22 T11S R19W		
Bottom Location:			
API:	15-051-26955		
License Number:	33922		
Spud Date:	6/1/2019	Time:	3:00 PM
Region:	ELLIS COUNTY		
Drilling Completed:	6/6/2019	Time:	9:30 PM
Surface Coordinates:	1420' FNL & 1780' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	1935.00ft		
K.B. Elevation:	1943.00ft		
Logged Interval:	2800.00ft	To:	3576.00ft
Total Depth:	3576.00ft		
Formation:	ARBUCKLE		
Drilling Fluid Type:	CHEMICAL		

OPERATOR

Company:	MUSTANG ENERGY CORPORATION		
Address:	PO BOX 1121		
Contact Geologist:	ROD BRIN		
Contact Phone Nbr:	785-623-0533		
Well Name:	VINE E #8		
Location:	NW NE SW NE SEC. 22 T11S R19W		
API:	15-051-26955		
Pool:		Field:	SOLOMON
State:	KS	Country:	

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	-99.41360
Latitude:	39.08453
N/S Co-ord:	1420' FNL
E/W Co-ord:	1780' FEL

LOGGED BY

Company:			
Address:	2717 HICKORY HAYS, KS 67601		
Phone Nbr:	785-639-0721		
Logged By:	Geologist	Name:	CAMERON BRIN

CONTRACTOR

Contractor:	DISCOVERY DRILLING INC.		
Rig #:	2		
Rig Type:	MUD ROTARY		
Spud Date:	6/1/2019	Time:	3:00 PM
TD Date:	6/6/2019	Time:	9:30 PM
Rig Release:	6/7/2019	Time:	8:30 PM

ELEVATIONS

K.B. Elevation:	1943.00ft	Ground Elevation:	1935.00ft

K.B. to Ground: 8.00ft

NOTES

DUE TO GOOD SHOWS THROUGHOUT THE ARBUCKLE AND POSITIVE LOG RESULTS, THE DECISION WAS MADE TO RUN 5 1/2" PRODUCTION CASING TO FURTHER EVALUATE THE VINE E #8 WELL

LOGGING PRVIDED BY: ELI- DUAL INDUCTION, COMPENSATED NEUTRON/ DENSITY, MICRORESISTIVITY LOGS
WERE COMPLETED

NO DRILL STEM TESTS WERE RAN

STRUCTURAL COMPARISON

	Mustang Energy Corporation		Skelly Oil Company		Mustang Energy Corporation		Mustang Energy Corporation	
	Vine E #8		Mauder R. Allen #8		M.R. Allen #17		Vine E #7	
			Producing				Producing	
	NW NE SW NE 22-11S-19W		NE SE NW 22-11S-19W		SE SE NW 22-11S-19W		S2 N2 NE 22-11S-19W	
	KB 1943		KB 1967		KB 1988		KB 1943	
Formation	Sample Tops	Log Tops	Log Tops		Log Tops		Log Tops	
Anhydrite	1231' (+712)	1239' (+704)	1256' (+711)	-7	1278' (+710)	-6	1230' (+713)	-9
Base	1266' (+677)	1276' (+667)	1291' (+676)	-9	1314' (+674)	-7	1267' (+676)	-9
Topeka	2896' (-953)	2899' (-956)	2915' (-948)	-8	2938' (-950)	-6	2892' (-949)	-7
Heebner	3118' (-1175)	3121' (-1178)	3136' (-1169)	-9	3160' (-1172)	-6	3114' (-1171)	-7
LKC	3160' (-1217)	3165' (-1222)	3177' (-1210)	-12	3201' (-1213)	-9	3156' (-1213)	-9
BKC	3380' (-1437)	3384' (-1441)	3400' (-1433)	-8	3426' (-1438)	-3	3377' (-1434)	-7
Arbuckle	3460' (-1517)	3462' (-1519)	3481' (-1514)	-5	3504' (-1516)	-3	3456' (-1513)	-6
RTD	3576' (-1633)	3582' (-1639)	3486' (-1519)		3590' (-1592)		3540' (-1597)	

Summary of Daily Activity

6/1/19 R.U., SPUD @ 3:00, DRILLING

6/2/19 904', DRILLING, 8 5/8" SURFACE CASING SET @1235' KB W/ 460 SKS COMMON 2% GEL & 3% CC, WOC

6/3/19 1235', WOC, DRILLED PLUG @ 7:15AM, DRILLING

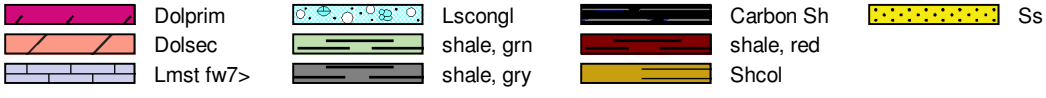
6/4/19 2383', DRILLING, LOST PUMP PRESSURE, TOH, TIH

6/5/19 2996', TIH, DRILLING

6/6/19 3447', DRILLING, TOHWB, TIHWB, DRILLING, CFS @3466, DRILLING, RTD 3576' (-1633) @ 9:30PM, SHORT TRIP (10 STANDS), CCH, TOWB

6/7/19 3576', TOWB, LOGGING, RUNNING PRODUCTION CASING AND CEMENT, COMPLETED @8:00PM RIG RELEASE @8:30PM

ROCK TYPES



ACCESSORIES

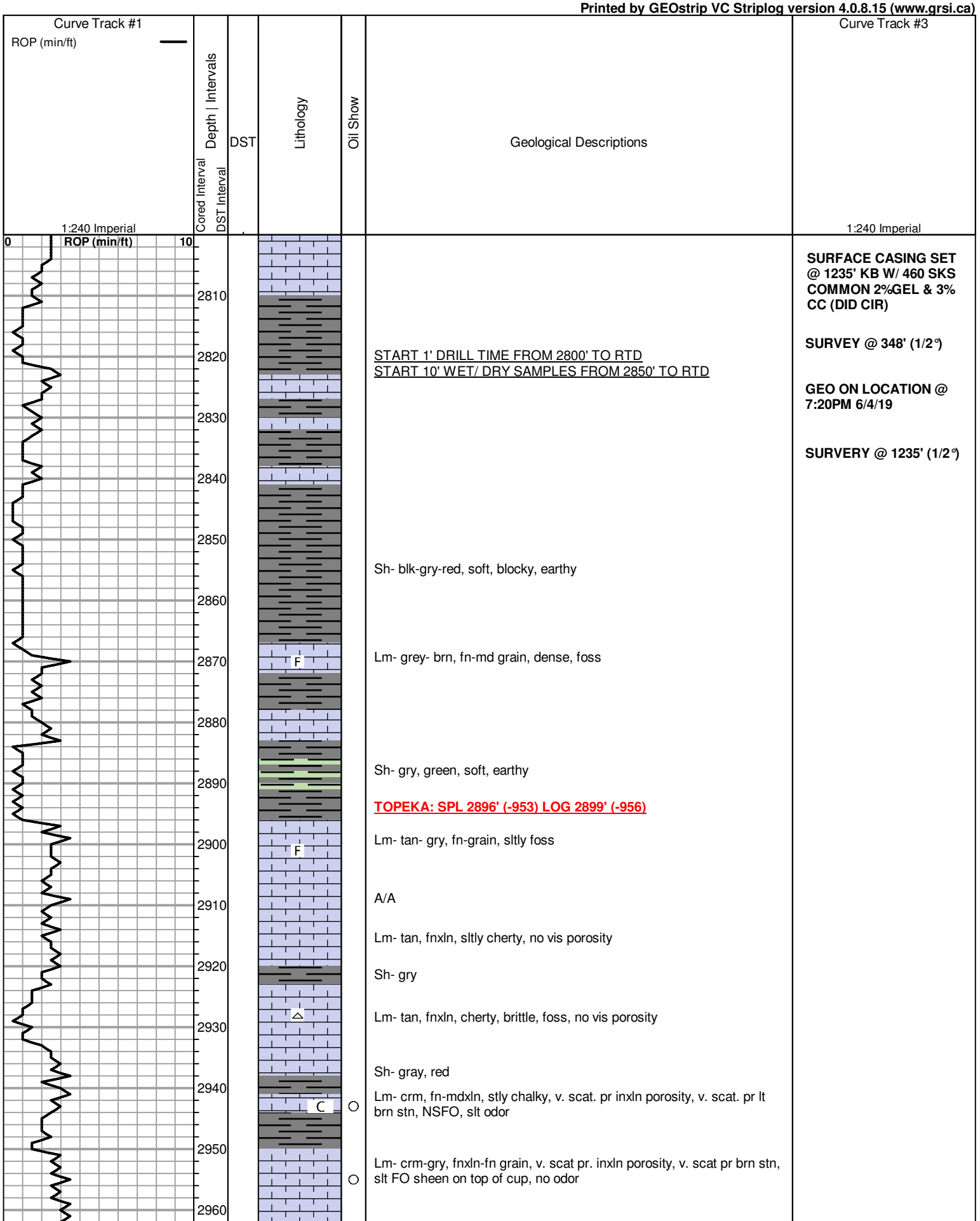
MINERAL **FOSSIL** **TEXTURE**

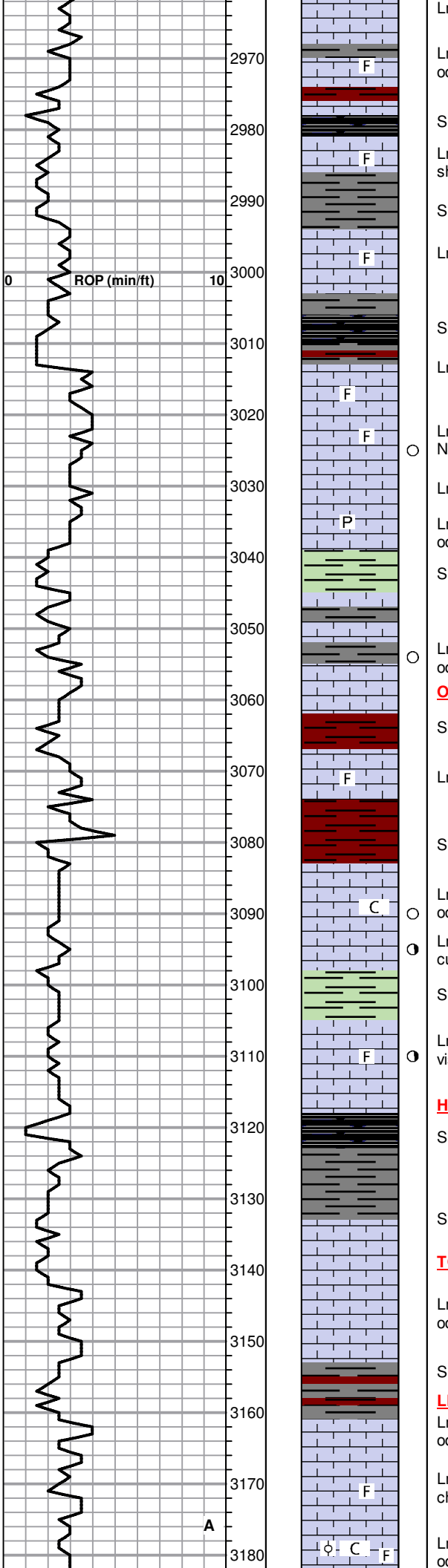
P Pyrite
Sandy
Chert White
Euhed rhombs of dol or

F Fossils < 20%
Oolite
Oomoldic

C Chalky

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





Lm- A/A, foss

Lm- crm- lt gry, fnxln, v. foss, scat pr pinpoint porosity, no vis show, no odor

Sh- black, red, waxy

Lm- crm- gry, fn-mdxln, stly chalky, stly foss, no vis porosity, no vis show, no odor

Sh- blk, red

Lm- crm-tan, fn-mdxln, foss, no vis porosity, no vis show, no odor

Sh- blk-gry-red, soft, waxy

Lm- crm- tan, fn-mdxln, v. foss, no vis porosity, no vis show, no odor

Lm- crm- fnxln, stly foss, scat pr inxln porosity, v. scat lt brn stn, NSFO, no odor, chert, white, angular

Lm- crm- lt gry, fnxln, sltly cherty, sltly foss, pyrite in part

Lm- crm-tan, fnxln, scat pr. inxln porosity, v. scat lt brn stn, NSFO, no odor

Sh- black- red- green

Lm- crm-tan, fnxln, scat pr inxln porosity, v.scat pr v. lt brn, NSFO, no odor

OREAD: LOG 3057' (-1114)

Sh- blk, red

Lm- crm-off wt, mcro-fnxln, scat foss, N.S, no odor, stly cherty

Sh- red, blk

Lm- crm- gry, fnxln, scat pr inxln porosity, v. scat lt brn stn, NSFO, no odor, stly chalky

Lm- crm- fnxln, scat pr inxln porosity, pr-fr lt brn stn, slt SFO sheen in cup, pr-no odor

Sh- turquoise, black

Lm- crm-brn, fnxln, foss, scat pr-fr inxln porosity, scat pr-fr brn stn, no vis SFO, v. slt odor,

HEEBNER: SPL 3118' (-1175)

Sh- blk, carb

Sh- blk, red

TORONTO: LOG 3138' (-1195)

Lm- crm- lt brn,fn-mdxln, scat pr inxln porosity, pr lt rn stn, NSFO, no odor

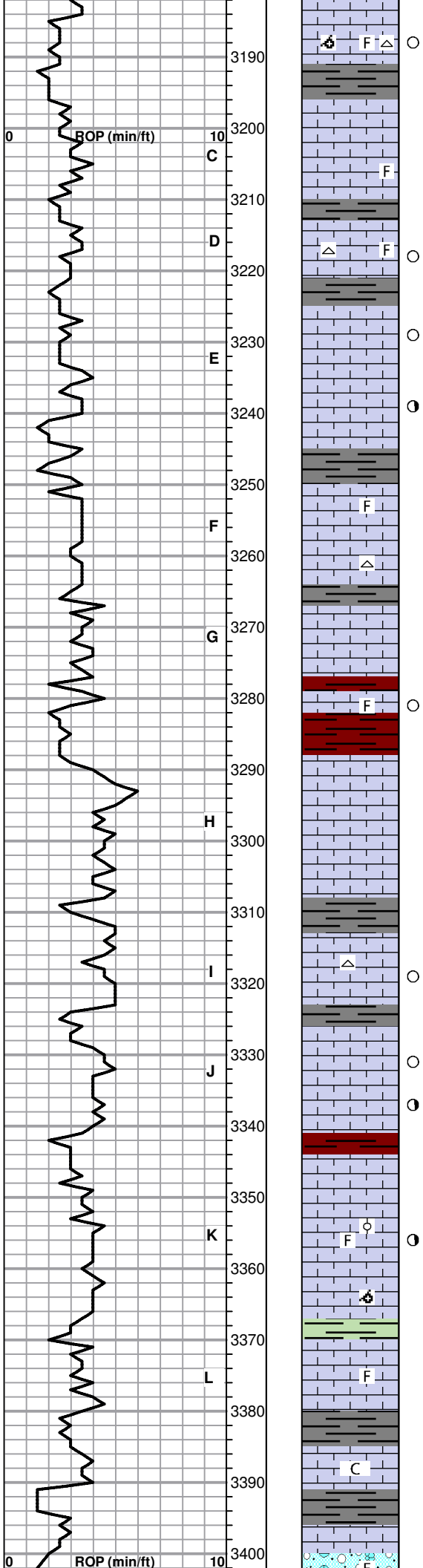
Sh- blk, red

LKC: SPL 3160' (-1217) LOG 3165' (-1222)

Lm- crm-brn, fnxln, 1-2 chips w/ pr inxln porosity, lt brn stn NSFO, no odor

Lm- crm, fn-mdxln, foss, scat pr inxln porosity, NSO, no odor, stly cherty

Lm- crm- fnxln, foss throghout, oolitic, scat v pr inxln porosity, NSO, slt odor, chalky in part



Lm- cm- fnxln, foss, oomoldic in prt, few chips w/ pr inxln porosity, pr-fr lt brn stn, NSFO, no odor, cherty

Sh- gray, red

Lm- crm,fnxln, stly foss, no vis porosity, no odor

Lm- crm- tan, fnxln-md grn, dense, foss, no vis porosity,no odor

Sh- gray

Lm- crm-wt, micro-fnxln, foss in part, cherty, dense, few chips w/ pr inxln porosity, fr brn stn, slt SFO sheen on cup

Sh- gray

Lm- crm, fnxln-md grn, few chips w/ pr-fr inxln porosity, fr brn stn in porosity, FO sheen in cup and upon crush, fr odor

Lm- crm- fn-mdxln, scat fr pinpoint-inxln porosity, fr lt brn stn, stly sat, fr SFO, slt odor

Sh- blk, gray, soft

Lm- crm, fn-mdxln, slty foss, 2 chips w/ pr inxln porosity, SFO upon crush, pr-fr lt brn stn, slt odor

Lm- crm- fnxln, stly cherty, NSO, no odor

Sh- gray, red

Lm- crm- fnxln, stly foss, few chips w/ pr inxln porosity, NSFO upon crush, pr lt brn stn, no odor

Sh- red

Lm- crm- fnxln, foss, few chips w/ pr-fr inxln-infoss porosity, pr- fr lt. brn stn, pr SFO, slt odor

Sh- red, muddy, sticky

Lm-, crm- fnxln, scat v. pr inxln porosity, pr brn stn, NSFO, no odor

Sh- gray

Lm- micro-fnxln, cherty, scat pr inxln porosity, pr lt brn stn, slt sheen in cup, slt odor

Sh- blk, red, green,

Lm- crm, fnxln, scat pr-fr inxln- pinpoint porosity, pr lt brn stn, slt SFO upon crush, no odor

Lm- crm- fnxln, scat pr-fr inxln-pinpoint porosity, pr-fr brn stn, fr SFO, fr odor

Sh- red, green, gray

Lm- A/A

Lm- crm, fnxln, foss, oolitic in prt, pr-fr inxln-inoolitic porosity, fr lt brn stn in por, fr SFO, fr odor

Lm- crm, fnxln, oomoldic, scat v. pr inxln porosity, NSO, no odor

Sh- green

Lm- crm, fnxln, stly foss, scat v. pr inxln porosity, pr lt brn stn, NSFO, no odor

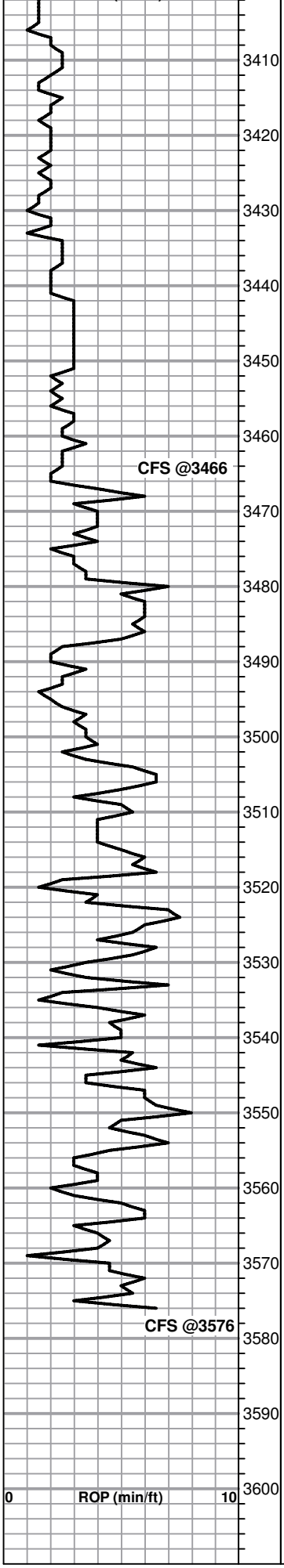
BKC: SPL 3380' (-1437) LOG 3384' (-1441)

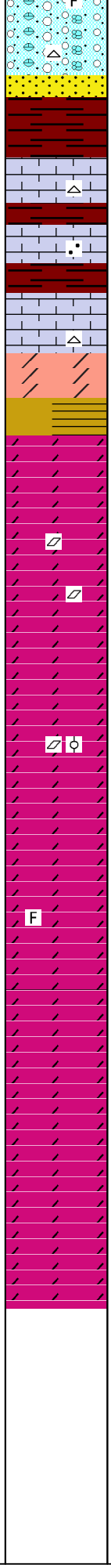
Sh- gray

Lm- crm, fnxln, foss, stly chalky

Sh- blk, gray, green

Lm-cong, crm- brn, fnxln, stly foss, scat v. pr inxln porosity, pr brn stn,





3410	NSFO, no odor Lm-cong- fn-mdxln, var colors, foss in prt, scat pr inxln porosity, brn stn, NSFO, slt odor, chert, orange-wt Ss- off wt quartz, sub-rounded, well sorted
3420	Sh- red, blk
3430	Lm- crm-fnxln, cherty, NSO, slt odor Sh- red
3440	Lm- crm-tan, fnxln, sandy in prt. chert vari colors, Sh- red
3450	Lm- crm- fnxln, scat chert, scat white dolo, NSO, no odor Dolo- wt, microxln, NSO Sh- vari colors
3460	**ARBUCKLE: SPL 3460' (-1517) LOG 3462' (-1519)** Dolo- crm- micro-fnxln, stly sandy, scat pr-fr inxln porosity, fr brn stn, 1 chip gd inxln porosity, blk stn, gd sat, fr SFO, fr-gd odor
3470	Dolo- crm- mdxln, rhombic in prt, fr inxln-pinpoint porosity vuggy in prt, fr-gd drk brn stn, gd sat, fr SFO, pr-fr odor
3480	Dolo- crm- mdxln, rhombic in prt, fr-gd inxln-pinpt porosity, fr-gd blk stn, fr sat, fr-gd SFO, fr odor
3490	Dolo- crm- fnxln-fn grn, fr inxln porosity, fr blk stn, scat pr-fr sat, fr-gd SFO, fr odor
3500	Dolo- crm, fnxln, scat rhombic, oolitic, fr inxln-gd oolicastic porosity, gd blk stn, fr-gd sat, fr-gd SFO, fr-gd odor
3510	Dolo- crm, mdxln, sandy, fr inxln porosity, fr blk stn in por, fr-gd SFO, pr-fr odor
3520	Dolo- off wt, fn-mdxln, foss, sandy, pr-fr inxln porosity, pr-fr blk stn, pr sat, fr-gd SFO, fr odor
3530	Dolo- crm- lt pink, fn-mdxln, sandy, fr inxln porosity, fr blk stn, pr- fr sat, gd SFO, pr odor
3540	Dolo- crm, mdxln-mdgrn, sandy fr inxln porosity w/ few scat vuggs, fr blk stn, fr-gd SFO, fr odor,
3550	Dolo- crm- off wt, mdxln-mdgrn, frly dense and well consolidated, scat fr inxln porosity, scat blk stn, gd SFO upon crush and sheen in cup, fr odor
3560	Dolo- crm-lt pnk, mdxln, mostly dense, well consolidated, scat fr inxln porosity, scat blk stn, gd SFO upon crush, pr sat, fr-gd odor
3570	Dolo- crm, mdxln-fngrn, mostly dense, well consolidated, scat chips w/ fr inxln por, scat blk stn, fr-gd SFO upon crush, slt FO sheen in cup, fr odor
3580	**RTD: SPL: 3576' (-1633) LOG: 3582' (-1639)** 3576' 30min- Dolo, crm, fn-mdxln, mostly dense, well consolidated, few chips w/ pr-fr inxln porosity, pr-fr blk stn, pr-fr sat, fr SFO upon crush, sheen and few blk oil specs in cup, pr-fr odor
3590	3576' 60min- Dolo- crm-lt pnk, fr-mdxln, mostly dense, well consolidated, scat gd inxln porosity NSO, 3-5 chips w/ pr-fr inxln porosity, fr blk stn, SFO up crush, pr odor, shows most likely from above
3600	

SURVEY @3576' (1°)

GEO OFF LOCATION @ 6:30AM 6/7/19

5 1/2" CASING SET TO 3579' w/ 135 SKS COMMON