KOLAR Document ID: 1329575

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 # 34117
Name: Eternity Exploration, LLC
Address 1: 338 SPYGLASS DR
Address 2:
City: COPPELL State: TX Zip: 75019 + 5430
Contact Person: Carlo A Ugolini
Phone: (469) 464-3849
CONTRACTOR: License # 34743
Name: White Knight Drilling LLC
Wellsite Geologist: Kim Shoemaker
Purchaser: MV Purchasing, LLC

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 #:

12/1/2016 Spud Date or Recompletion Date
12/10/2016 Date Reached TD
12/31/2016 Completion Date or Recompletion Date

API No.: 15-193-20980-00-00
Spot Description:
_ - SE - SE - SE Sec. 13 Twp. 9 S. R. 32 ☐ East ☑ West
330 Feet from ☐ North / ☑ South Line of Section
330 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: Thomas
Lease Name: LADENBURGER Well #: 1
Field Name: unknown
Producing Formation: Lansing/KC
Elevation: Ground: 3027 Kelly Bushing: 3032
Total Vertical Depth: 4731 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 249 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from: 4466
feet depth to: 0 w/ 445 sx cmt.

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

Chloride content: 1100 ppm Fluid volume: 500 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: 01/24/2017
☑ **Confidential Release Date:** 01/24/2019
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 01/26/2017

Operator Name: Eternity Exploration, LLC Lease Name: LADENBURGER Well #: 1

Sec. 13 Twp. 9 S. R. 32 ☐ East ☑ West County: Thomas

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:
Attached

☑ 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	8.625	20	249	common	175	2%gel 3%CaCl
Production	7.875	5.5	14	4466	ASC	585	10%salt 2%GEL

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: 1/13/2017

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	40		0		41

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
4324-4334	

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)*

TUBING RECORD: Size: 2.875 Set At: 4432 Packer At:

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

Form	ACO1 - Well Completion
Operator	Eternity Exploration, LLC
Well Name	LADENBURGER 1
Doc ID	1329575

All Electric Logs Run

Compensated Density/Neutron
Dual Induction
Micro
Sonic

Form	ACO1 - Well Completion
Operator	Eternity Exploration, LLC
Well Name	LADENBURGER 1
Doc ID	1329575

Tops

Name	Top	Datum
Anhydrite	2624	+408
B/Anhydrite	2654	+378
Heebner	4021	-989
Lansing	4063	-1031
Stark	4272	-1240
Huspuckney	4310	-1278
B/KC	4336	-1304
Fort Scott	4520	-1488
Cherokee	4550	-1518
Mississippi	4626	-1594

Form	ACO1 - Well Completion
Operator	Eternity Exploration, LLC
Well Name	LADENBURGER 1
Doc ID	1329575

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4324-4329; 4331-4334	500 gals 15%MA	4334
	4324-4329; 4331-4334	1500 gals 15%NE w/3%MAS	4334

Form	ACO1 - Well Completion
Operator	Eternity Exploration, LLC
Well Name	LADENBURGER 1
Doc ID	1329575

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	249	common	175	2%gel 3%CaCl
Production	7.875	5.5	14	4466	ASC	585	10%salt 2%GEL

CONSOLIDATED
Oil Well Services, LLC

REMIT TO

Consolidated Oil Well Services,LLC
Dept:970
P.O.Box 4346
Houston,TX 77210-4346

MAIN OFFICE

P.O.Box884
Chanute,KS 66720
620/431-9210,1-800/467-8676
Fax 620/431-0012

Invoice

Invoice# 809182

Invoice Date: 12/06/16

Terms: Net 30

Page 1

ETERNITY EXPLORATION

338 SPY GLASS DRIVE
COPPELL TX 75019
USA

LADENBURGER #1

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0471	Cement Pump Charge 301' - 500' (Coalbed/Methane)	1.000	1,150.0000	45.000	632.50
CE0002	Equipment Mileage Charge - Heavy Equipment	10.000	7.1500	45.000	39.33
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	45.000	363.00
CC5871	Surface Blend II, 2% Gel/3% CaCl	175.000	23.0000	45.000	2,213.75
CC5326	Sodium Chloride, Salt	100.000	0.0000	0.000	0.00

Subtotal	5,906.50
Discounted Amount	2,657.93
SubTotal After Discount	3,248.57

Amount Due 6,208.38 If paid after 01/05/17

Tax:	166.03
Total:	3,414.61

Pd -12-26-16
CK#4040

Invoiced to Ladenburger #1 DTT

BARTLESVILLE, OK 918/338-0808 | EL DORADO,KS 316/322-7022 | EUREKA, KS 620/583-7554 | PONCA CITY, OK 580/762-2303 | OAKLEY, KS 785/672-8822 | OTTAWA, KS 785/242-4044 | THAYER, KS 620/839-5269 | GILLETTE, WY 307/686-4914 | CUSHING, OK 918/225-2650

7167
7066

CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 51642
LOCATION Oakley KS
FOREMAN Jerry Y

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice# 809182 KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-1-16	2717	Ladenburger #1	13	9S	32W	Thomas

CUSTOMER: Eternity Exploration
MAILING ADDRESS: 338 Spyglass Drive
CITY: Coppell | STATE: TX | ZIP CODE: 75019-5430

Oakley N to J 2E North

TRUCK #	DRIVER	TRUCK #	DRIVER
731	Cory D		
479	Steve O		

JOB TYPE Surface | HOLE SIZE 12¼ | HOLE DEPTH 249 | CASING SIZE & WEIGHT 8 5/8 24#
CASING DEPTH 247 | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT 14.8 | SLURRY VOL 1.24 | WATER gal/sk | CEMENT LEFT in CASING 20'
DISPLACEMENT 14 ½ bbl | DISPLACEMENT PSI | MIX PSI | RATE

REMARKS: Safty meeting rig upon WhiteKnight break circulation mix 175sks Surface blend II Wash up & Displace with 14½ bbl freshwater & shut in Circulated approx 2 bbl to pit

Cement did circulate

Thank you
Jerry & crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150.00	1150.00
CE0002	10	MILEAGE	7.15	71.50
CE0711	8.23	ton mileage delivery (min)	660.00	660.00
CC5871	175 sks	Surface blend II	23.00	4025.00
CC5326	100 #	Salt	no charge	0
			subtotal	5906.50
			-45%	2657.93
			subtotal	3248.57
			SALES TAX	166.04
			ESTIMATED TOTAL	3414.61

Ravin 3737

AUTHORIZTION Terry Austin TITLE DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

ALLIED OFS, LLC

P.O. Box 205803
Dallas, TX 75320-5803

Voice: (832) 482-3742
Fax: (832) 482-3738

INVOICE

Invoice Number: 153461
Invoice Date: Dec 10, 2016
Page: 2

Federal Tax I.D.#: 81-2169190

Bill To:

Eternity Exploration, LLC
338 Spyglass Dr
Coppell, TX 75019

Customer ID	Field Ticket #	Payment Terms	
Eter	68197	Net 30 Days	
Job Location	**Camp Location**	**Service Date**	**Due Date**
KS1-02	Oakley	Dec 3, 2016	1/9/17

Quantity	Item	Description	Unit Price	Amount
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Cement Service	3,912.51	-3,912.51
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Equipment	2,667.36	-2,667.36
1.00	JOB DISCOUNT	Job Discount if paid within terms --DV Tool Discount OK	2,134.00	-2,134.00
1.00	E-RYAN.ALAN	SERVICE SUPERVISOR		
1.00	E-RYAN.KEVIN	EQUIPMENT OPERATOR		
1.00	E-MITTEN.JADE	EQUIPMENT OPERATOR		

Pd-1-5-17
Ck# 4052

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. ONLY IF PAID ON OR BEFORE

Jan 9, 2017

1 1/2% CHARGED THEREAFTER.

Subtotal	18,932.33
Sales Tax	1,102.01
Total Invoice Amount	20,034.34
Payment/Credit Applied	
TOTAL	**20,034.34**

Invoiced to Ladenberger #1 Completion

ALLIED OFS,LLC

P.O. Box 205803
Dallas, TX 75320-5803

Voice: (832) 482-3742
Fax: (832) 482-3738

INVOICE

Invoice Number: 153461
Invoice Date: Dec 10, 2016
Page: 1

Federal Tax I.D.#: 81-2169190

Bill To:

Eternity Exploration, LLC
338 Spyglass Dr
Coppell, TX 75019

Customer ID	Field Ticket #	Payment Terms	
Eter	68197	Net 30 Days	
Job Location	**Camp Location**	**Service Date**	**Due Date**
KS1-02	Oakley	Dec 3, 2016	1/9/17

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Ladenburger 1		
475.00	CEMENT MATERIALS	60-40-6% GEL	19.88	9,443.00
140.00	CEMENT MATERIALS	ASC	23.50	3,290.00
700.00	CEMENT MATERIALS	KOL Seal	0.98	686.00
66.00	CEMENT MATERIALS	CFL-330	23.10	1,524.60
20.00	CEMENT MATERIALS	Cement Material Sales	3.50	70.00
120.00	CEMENT MATERIALS	FloSeal	2.97	356.40
20.00	CEMENT MATERIALS	HVS	58.70	1,174.00
709.00	CEMENT SERVICE	PHDL	2.48	1,758.32
300.00	CEMENT SERVICE	DRYG	2.75	825.00
10.00	CEMENT SERVICE	MIHV	7.70	77.00
10.00	CEMENT SERVICE	MILV	4.40	44.00
1.00	CEMENT SERVICE	Cement Head Manifold	275.00	275.00
1.00	CEMENT SERVICE	Top Stage	2,406.25	2,406.25
1.00	CEMENT SERVICE	Production	2,765.75	2,765.75
1.00	EQUIPMENT SALES	Packer Shoe 5.5	3,765.00	3,765.00
1.00	EQUIPMENT SALES	DV Tool	5,335.00	5,335.00
1.00	EQUIPMENT SALES	Latchdown Assy	660.00	660.00
2.00	EQUIPMENT SALES	Baskets	395.00	790.00
6.00	EQUIPMENT SALES	Centralizers	57.00	342.00
1.00	JOB DISCOUNT	Job Discount if paid within terms -- Material	7,941.12	-7,941.12

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. ONLY IF PAID ON OR BEFORE

Jan 9, 2017

1 1/2% CHARGED THEREAFTER.

Subtotal	Continued
Sales Tax	Continued
Total Invoice Amount	Continued
Payment/Credit Applied	
TOTAL	**Continued**

15.2

ALLIED OFS, LLC

Federal Tax I.D. #81-2169190

68197

REMIT TO: Allied OFS, LLC
P.O. Box 205803
Dallas, TX 75320-5803

SERVICE POINT: Oakley Ks

DATE 12/10/16	SEC. 13	TWP. 9	RANGE 32	CALLED OUT	ON LOCATION	JOB START 9:30p	JOB FINISH 10:30p
LEASE Lade James	WELL # 1		LOCATION Oakley N to RR K 2½ E N into			COUNTY Thomas	STATE Ks
OLD OR NEW (Circle one)							

CONTRACTOR White Knight
TYPE OF JOB Prod. 2 Stage
HOLE SIZE 7 7/8 T.D.
CASING SIZE 5½ 14# DEPTH 4461
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DV DEPTH 2630
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT 24
CEMENT LEFT IN CSG. 24
PERFS.
DISPLACEMENT 44 H20 – 66 Rig Mud – Bottom
65 BBL H20 Top

EQUIPMENT

PUMP TRUCK CEMENTER Alan Bycon
366-281 HELPER Kevin Bycon
BULK TRUCK
818 DRIVER Jade Mitten
BULK TRUCK
379 DRIVER Jade Mitten

OWNER Same

CEMENT
AMOUNT ORDERED 140 ASC 5# Gilsonite 10% salt 2% gel .5% CD19 .1% KCL
475 ALW 65/35 6% 1/4# Flo Defoamer

65/35 6%	475			
~~COMMON~~	~~300 sk~~	@	19 88	9443 00
POZMIX		@		
GEL		@		
CHLORIDE		@		
ASC	140 SK	@	23 50	3290 00
		@		
Ko/Seal	7001b	@	98 40	686 00
CF/1330	66	@	23 40	524 60
Defoamer	20	@	3 50	70 00
Flo Seal	120	@	2 92	356 40
		@		
Mud Sweep	20 BBL	@	58 20	1174 00
		@		
		TOTAL		16544.00
		DISCOUNT	48%	7941.12

REMARKS:

Run Csg. Circulate, Mix 20 BBL WFR II, Mix 140 SK ASC
Wash Truck, Displace H20 Rig Mud w/ 500 PSI Lift
Land Plug @ 1800, Open Tool & Circulate, Mix
30 SK Rat Hole, Mix 445 SK ALW Down
5½ Wash Truck, Displace Plug w/ 65 BBL H20
w/ 700 lb WFR, Land Plug @ 2000, Tool Closed
Cement Did Circulate
20 BBL to Pit
Thank You
Alan, Kevin
Jade

SERVICE

HANDLING	709 CF	@ 2 48	1755.32
MILEAGE 25 per/mile	30 Tons		825 00
DEPTH OF JOB			
PUMP TRUCK CHARGE			2765 25
EXTRA FOOTAGE		@	
HV MILEAGE	10	@ 7 70	77 00
LV MILEAGE	10	@ 4 40	44 00
H-M		@	225 00
Top Stage		@	2406 25
		TOTAL	8,151.07
		DISCOUNT	48% 3912.51

CHARGE TO: Eternity Exp
STREET
CITY STATE ZIP

Co, Man Ordered 175 SK more of
65/35 6% 1/4 Flo
For 475 SK Total

PLUG & FLOAT EQUIPMENT

Packer Shoe	1	@	3765 00
DV Tool	1	@ 5335 00	5335 00
Latch Down	1	@ 660 00	660 00
Basket	2	@ 395 00	790 00
Centralizer	6	@ 57 00	342 00
		TOTAL	10,892.00
		DISCOUNT	48% 2667.36
		DV-Tool 40%	2.134.00

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

Allan Bycon

PRINTED NAME Butch Dryke

SIGNATURE Butch Dryke

SALES TAX (If Any)
TOTAL CHARGES 35,587.07
DISCOUNT 16,654.99 (48/40 DV Tool) IF PAID IN 30 DAYS
NET TOTAL 18,932.08 IF PAID IN 30 DAYS

Bd

THILL PRINTING CO., INC. — GREAT BEND, KS.

DUAL INDUCTION LOG

Company ETERNITY EXPLORATION, LLC
Well LANDENBURGER NO.1
Field WILDCAT
County THOMAS State KANSAS
Location: API # : 15-193-20980-00-00
330' FSL & 330' FEL
SEC 13 TWP 9S RGE 32W
Permanent Datum GROUND LEVEL Elevation 3027
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CNL/CDL
MEL/SONIC

Elevation
K.B. 3032
D.F. 3030
G.L. 3027

Date	12/10/16		
Run Number	ONE		
Depth Driller	4730		
Depth Logger	4731		
Bottom Logged Interval	4729		
Top Log Interval	0		
Casing Driller	8 5/8"@249'		
Casing Logger	246'		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,000 PPM	
Density / Viscosity	9.3/80		
pH / Fluid Loss	9.4/8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.0@80		
Rmf @ Meas. Temp	.75@80		
Rmc @ Meas. Temp	1.2@80		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.65@123		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	123 DEG/F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JUSTIN HENRICKSON		
Witnessed By	KIM SHOEMAKER	CARLO UGOLINI	

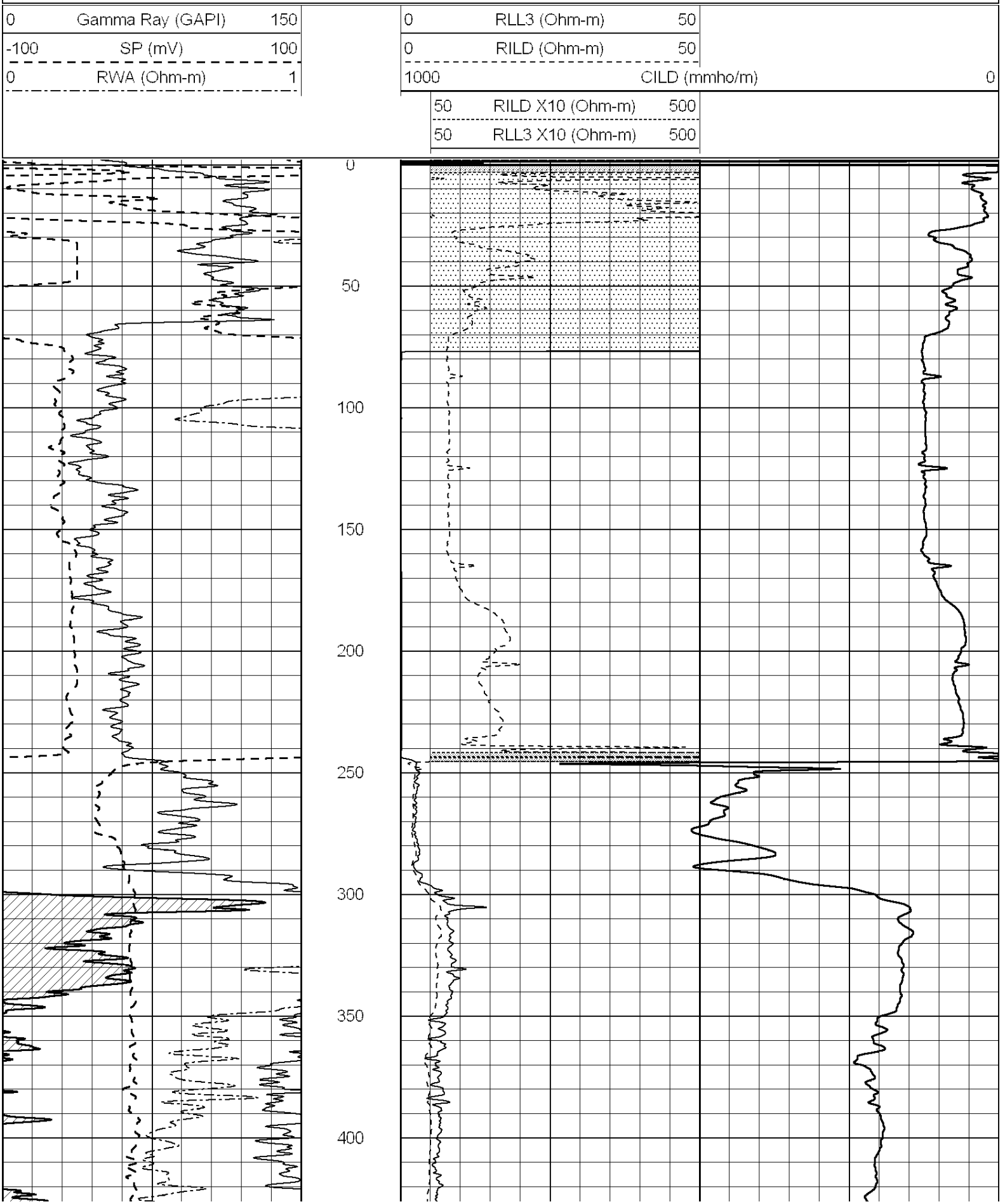
<<< Fold Here >>>

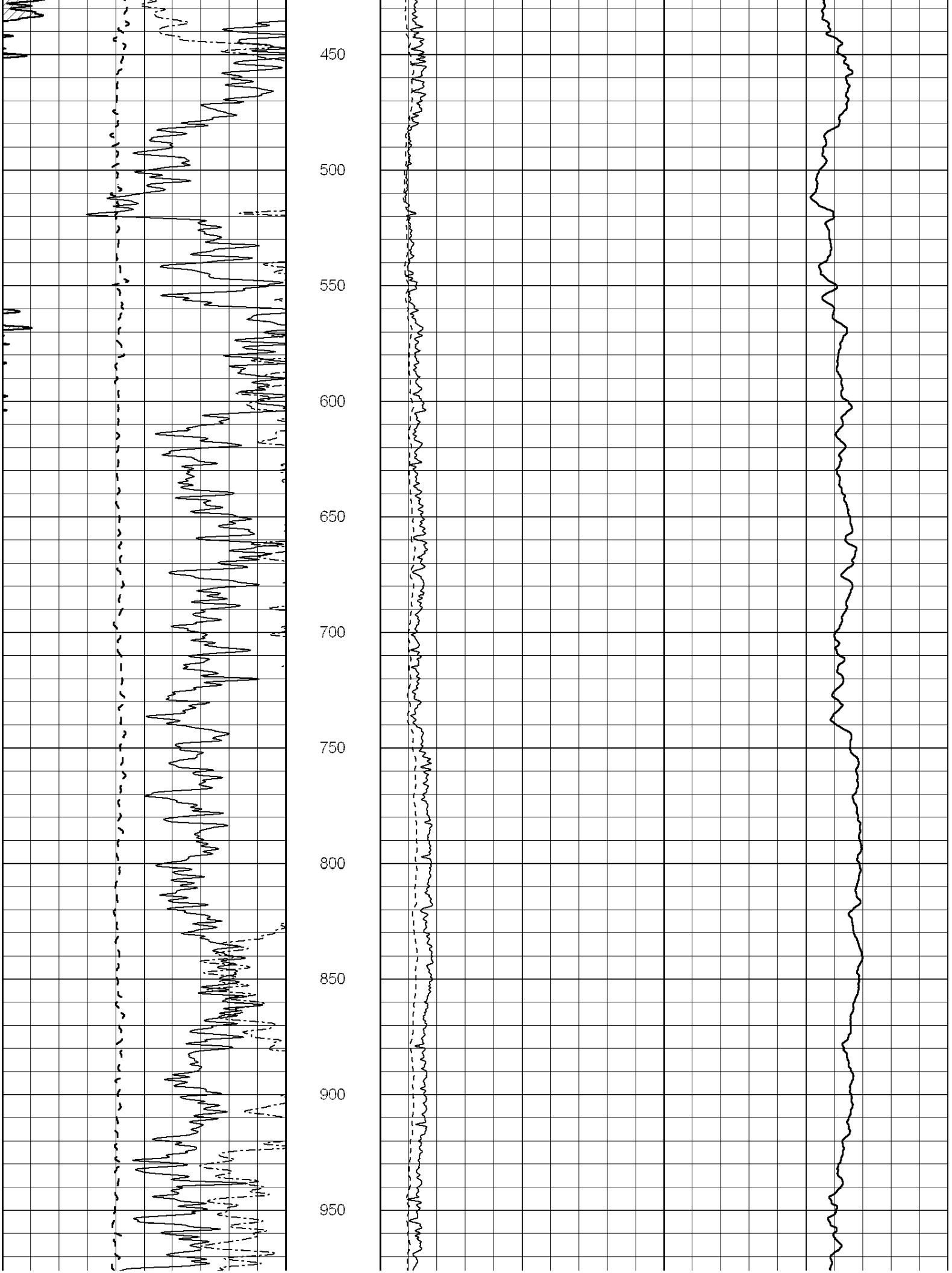
Comments

THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
INTERSTATE EXIT #70
5 NORTH TO J ROAD, 2 EAST, NORTHWEST INTO

MAIN PASS

Database File: 1333dildn.db
Dataset Pathname: pass3.3
Presentation Format: _dil2
Dataset Creation: Sat Dec 10 04:06:07 2016 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:600

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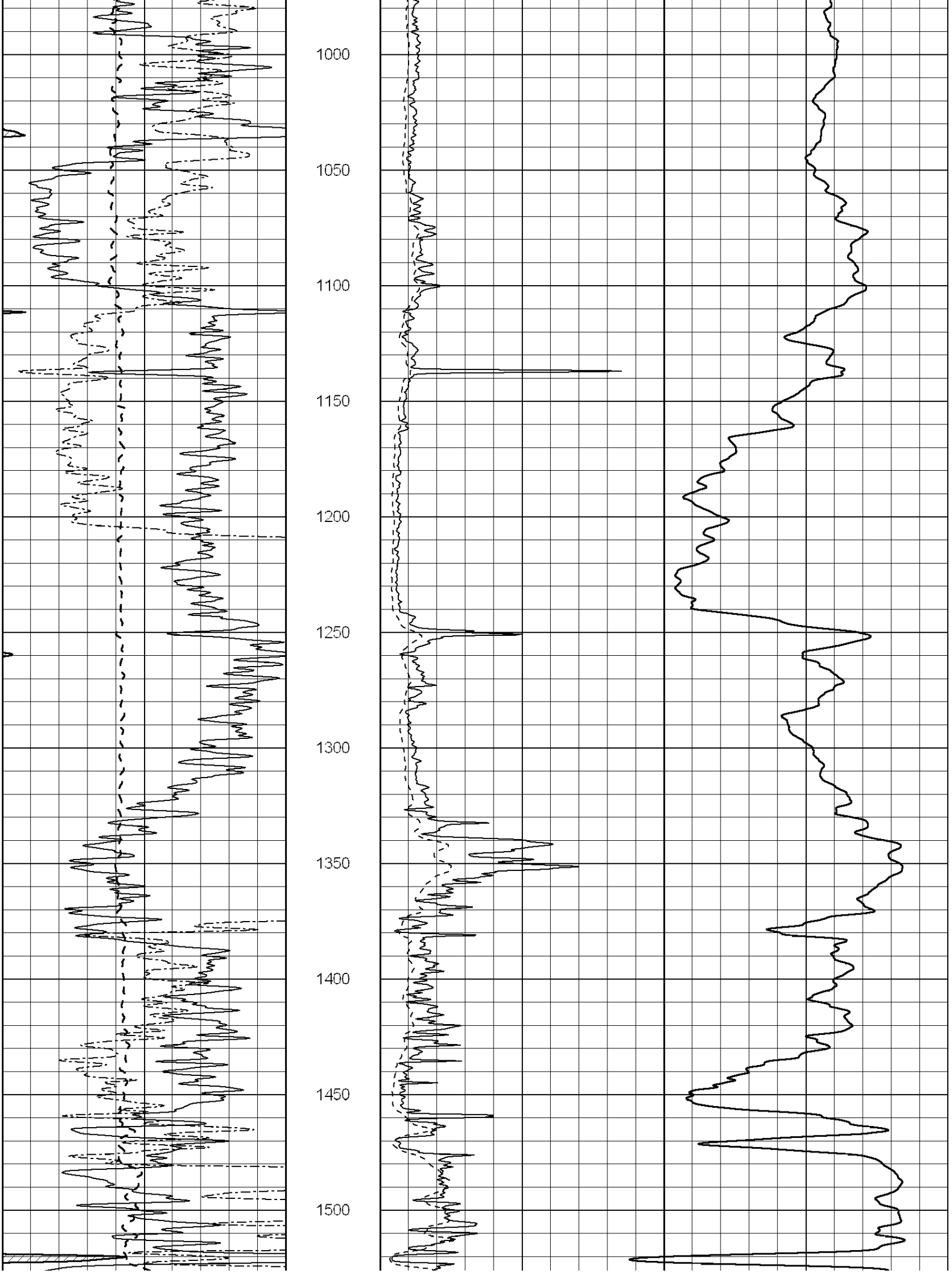
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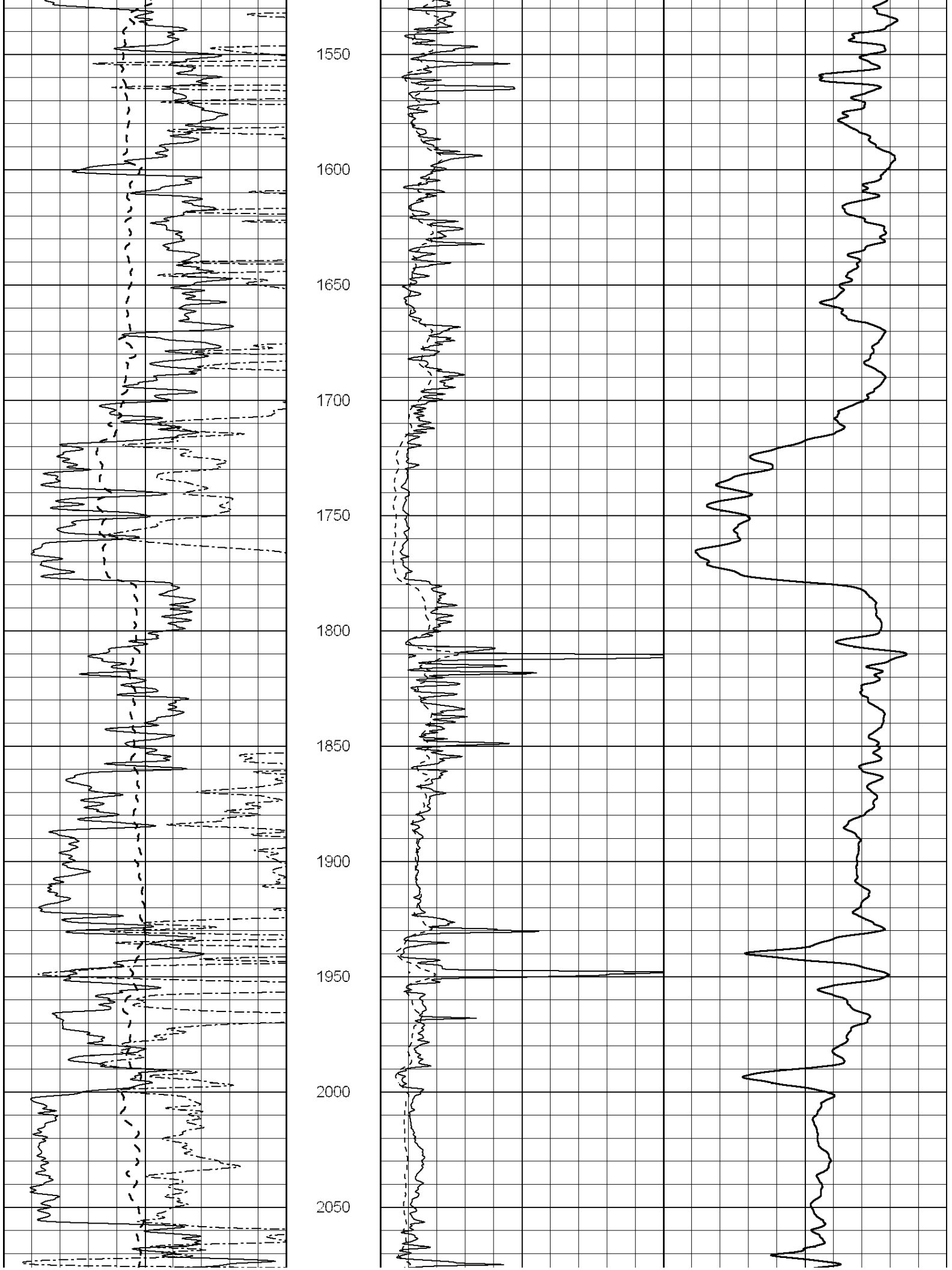
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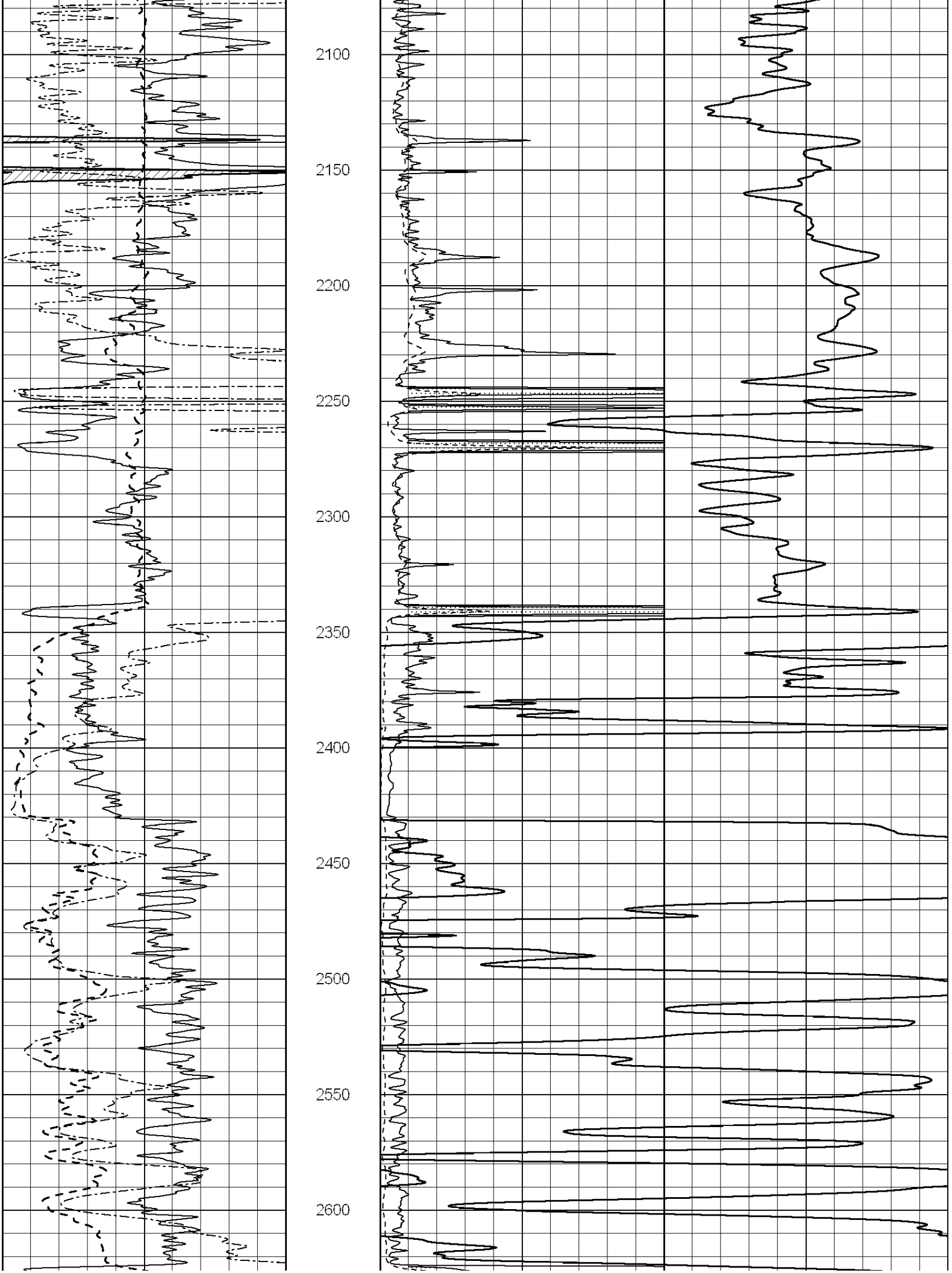
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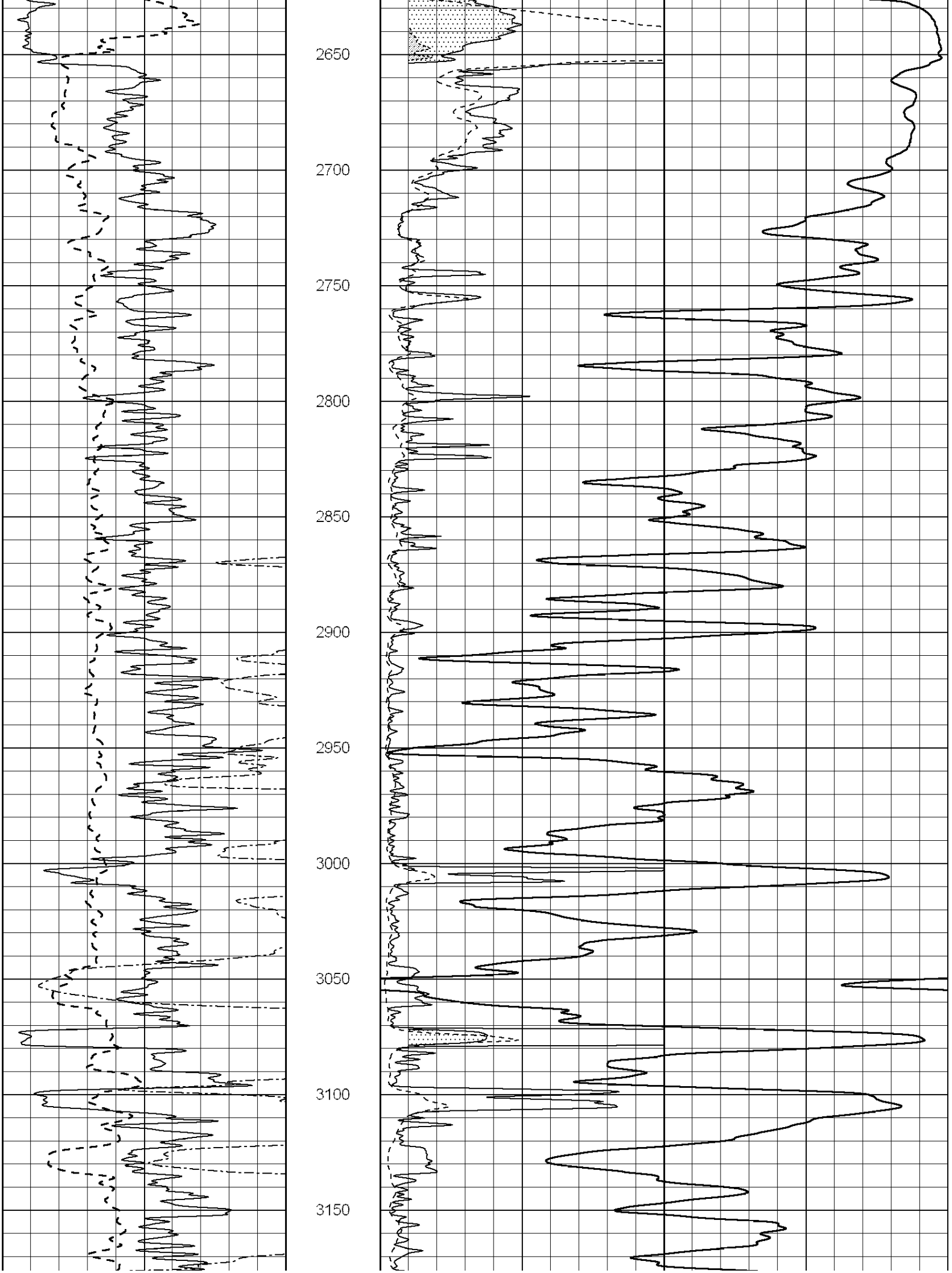
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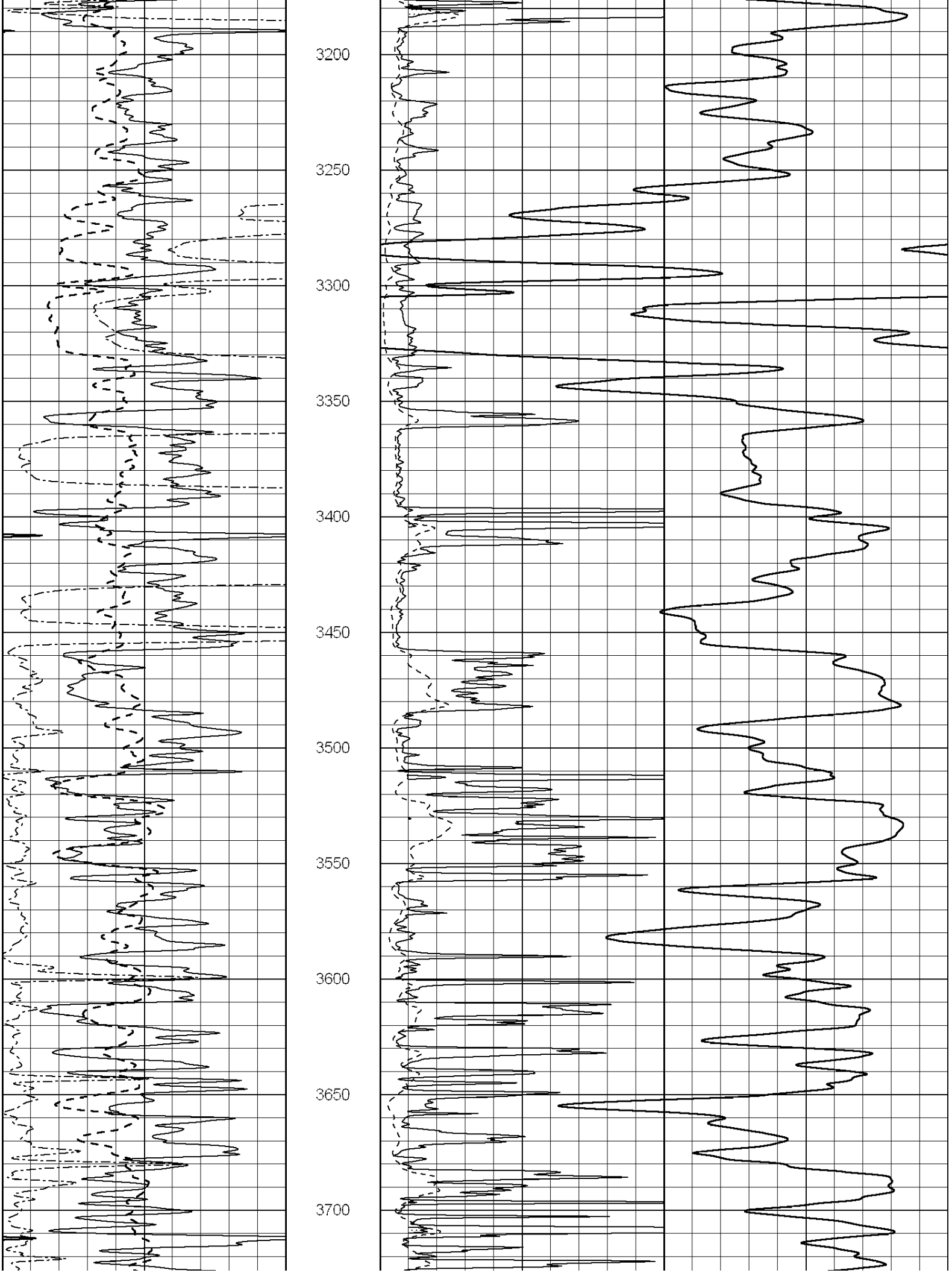
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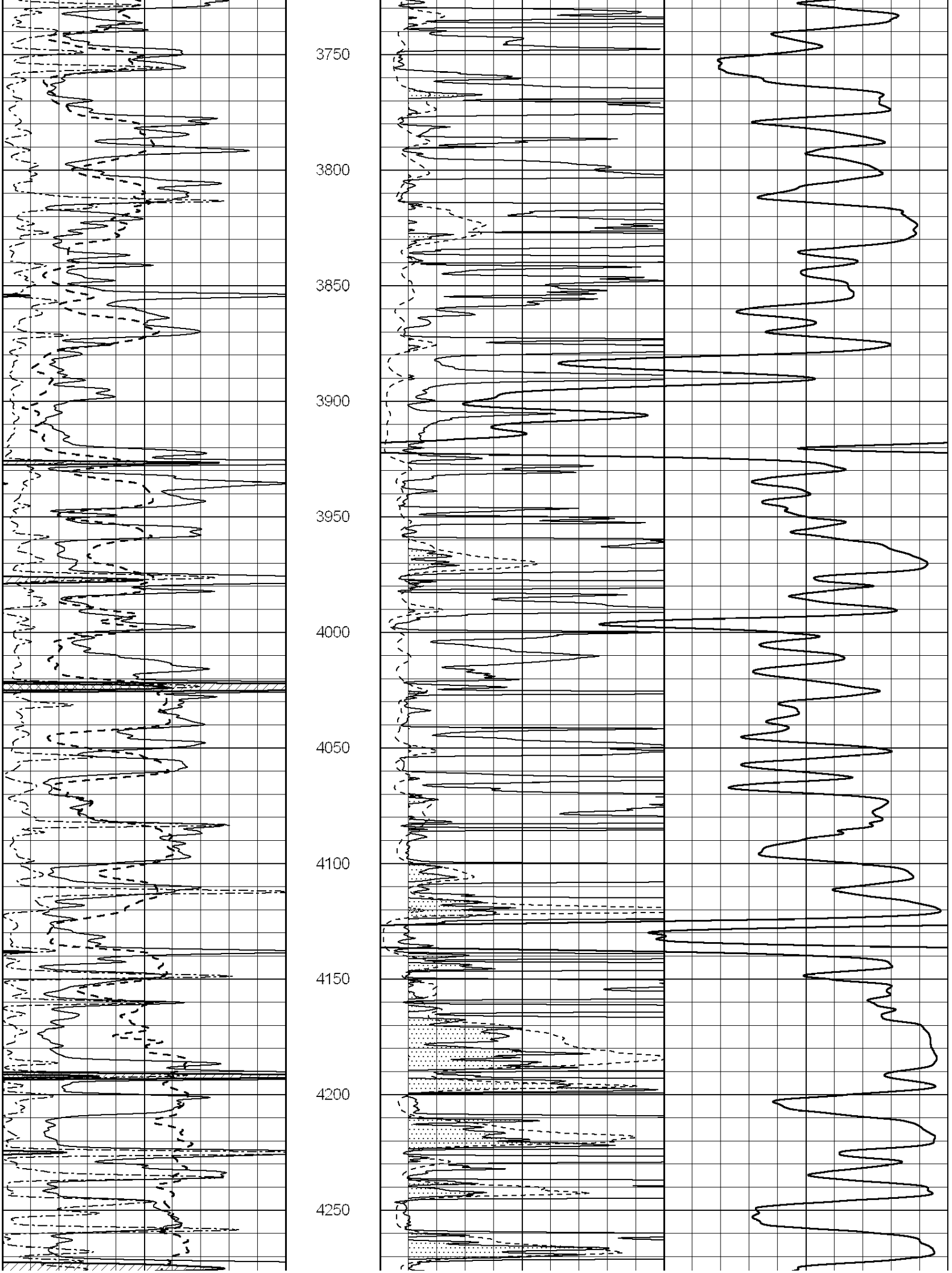
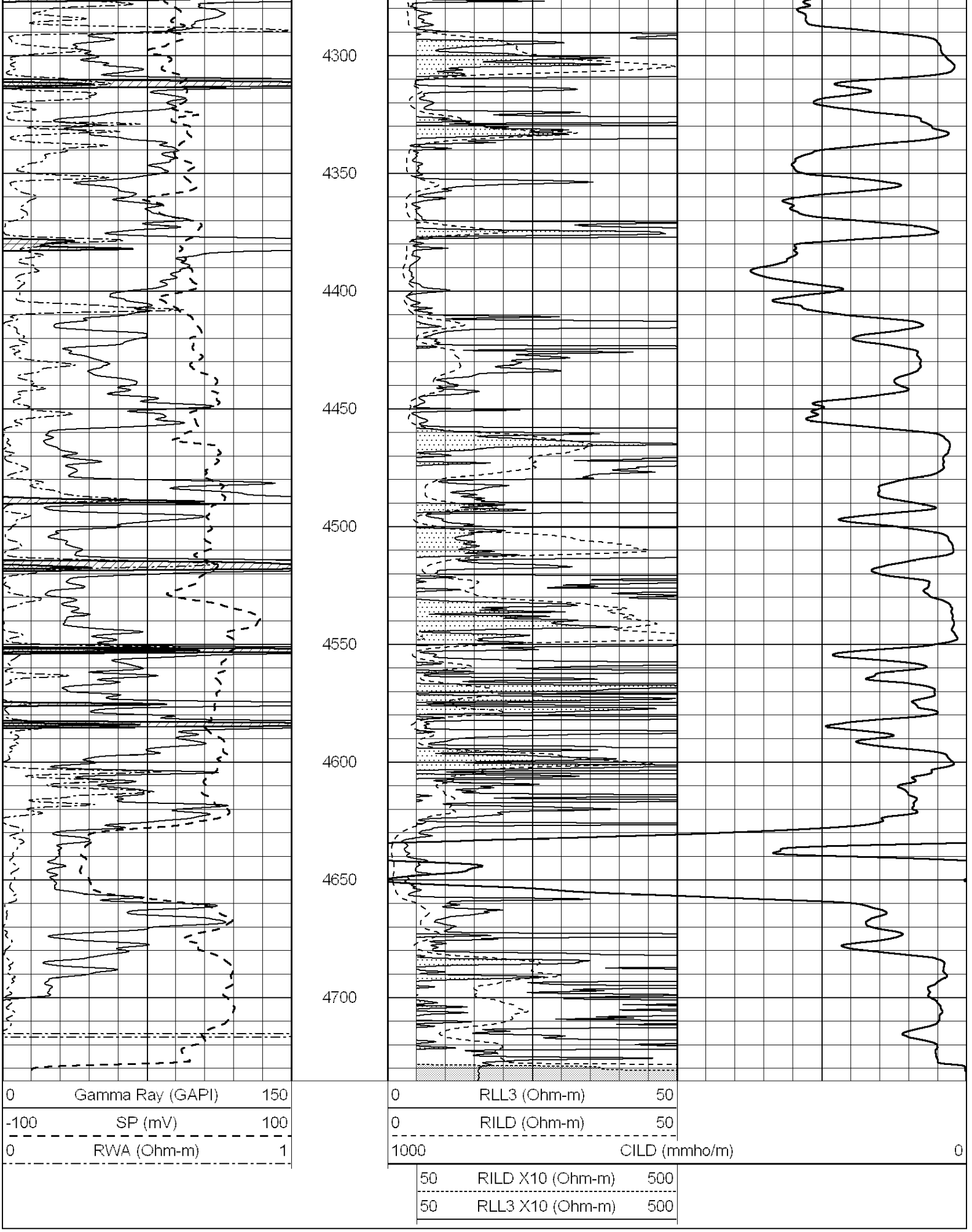
3650
3700


3750
3800
3850
3900
3950
4000
4050
4100
4150
4200
4250

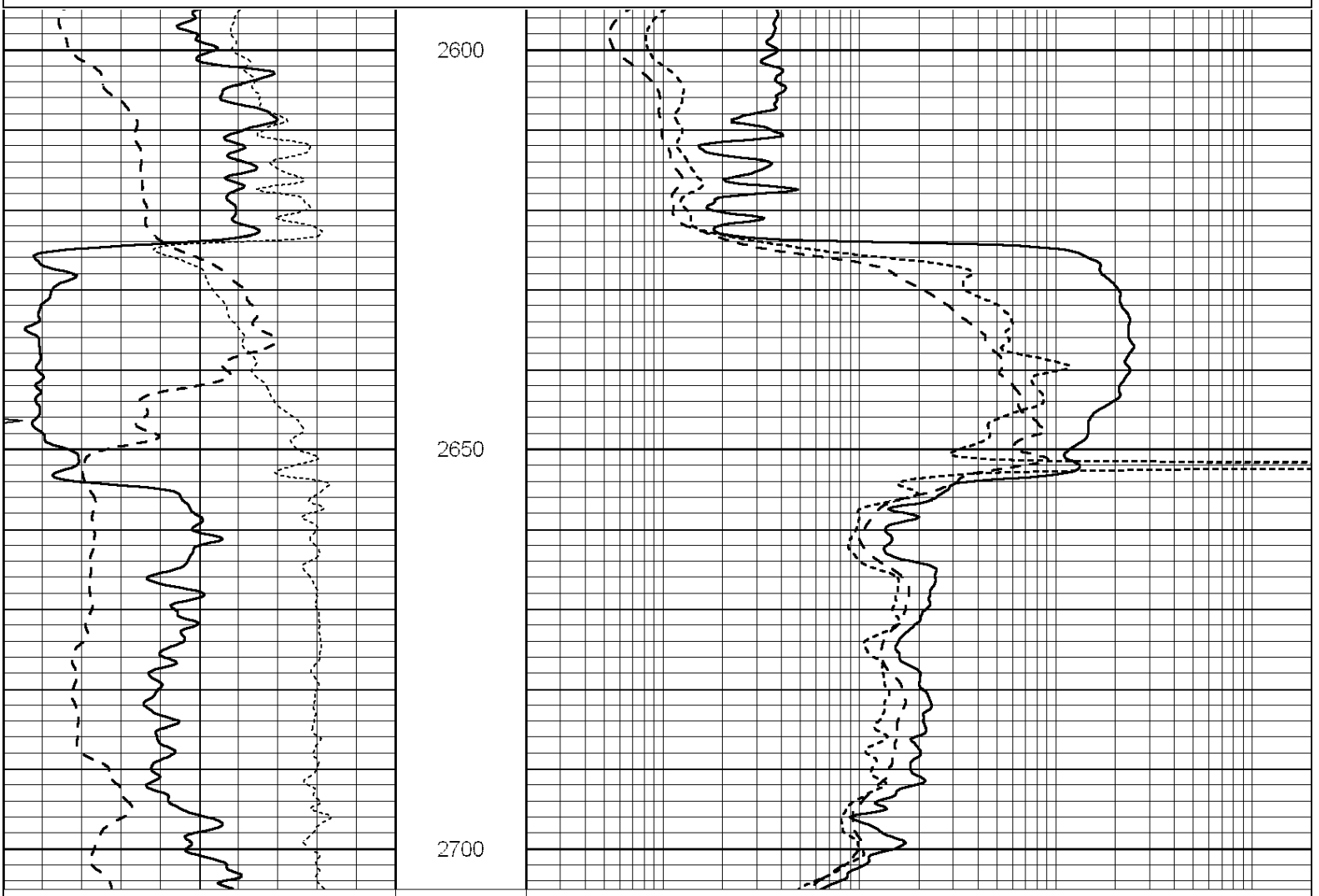

4300
4350
4400
4450
4500
4550
4600
4650
4700
0 Gamma Ray (GAPI) 150
-100 SP (mV) 100
0 RWA (Ohm-m) 1
0 RLL3 (Ohm-m) 50
0 RILD (Ohm-m) 50
1000 CILD (mmho/m) 0
50 RILD X10 (Ohm-m) 500
50 RLL3 X10 (Ohm-m) 500

ANHYDRITE

Database File:	1333dildn.db
Dataset Pathname:	pass3.2
Presentation Format:	_dil
Dataset Creation:	Sat Dec 10 03:41:11 2016 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

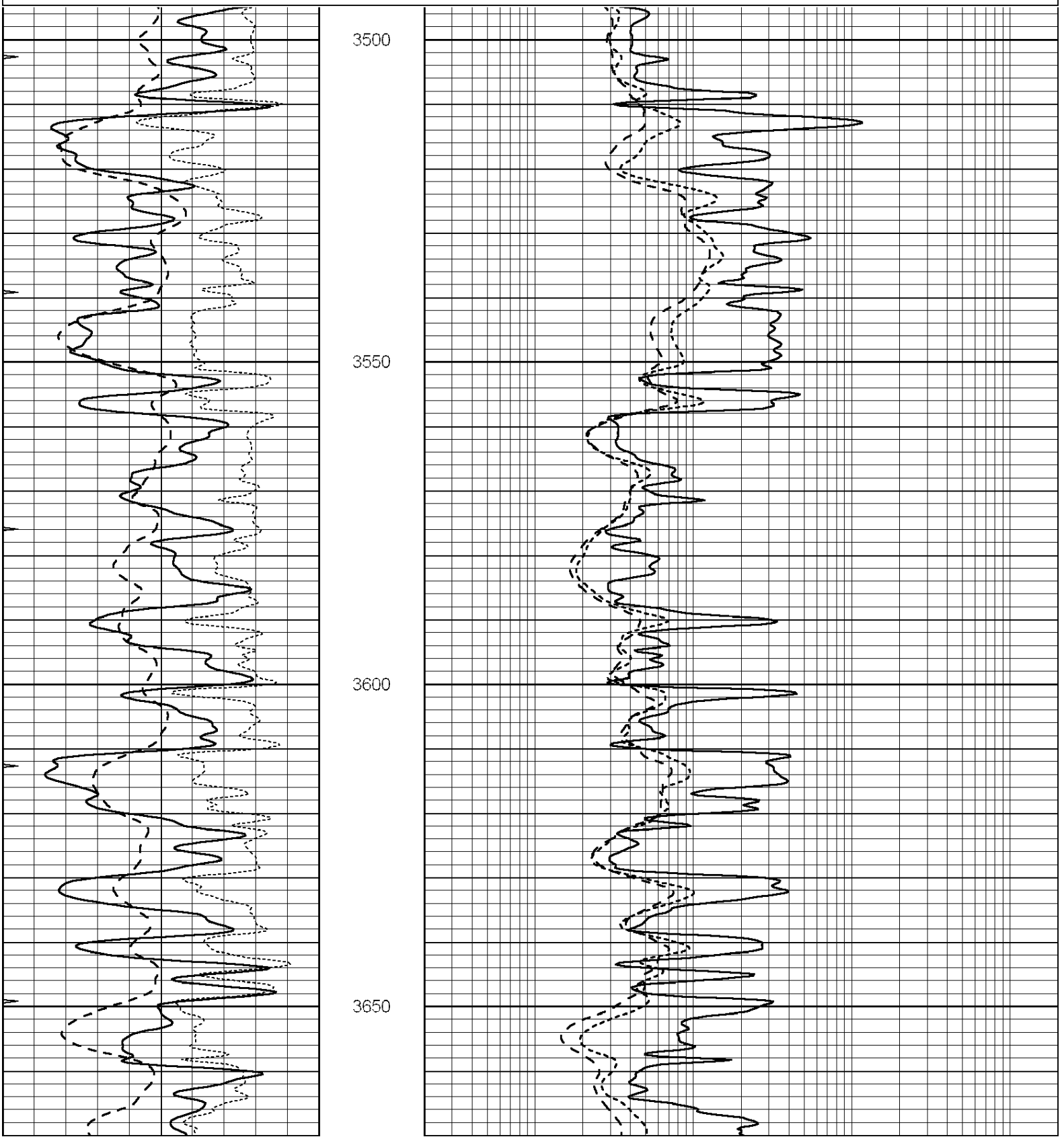
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

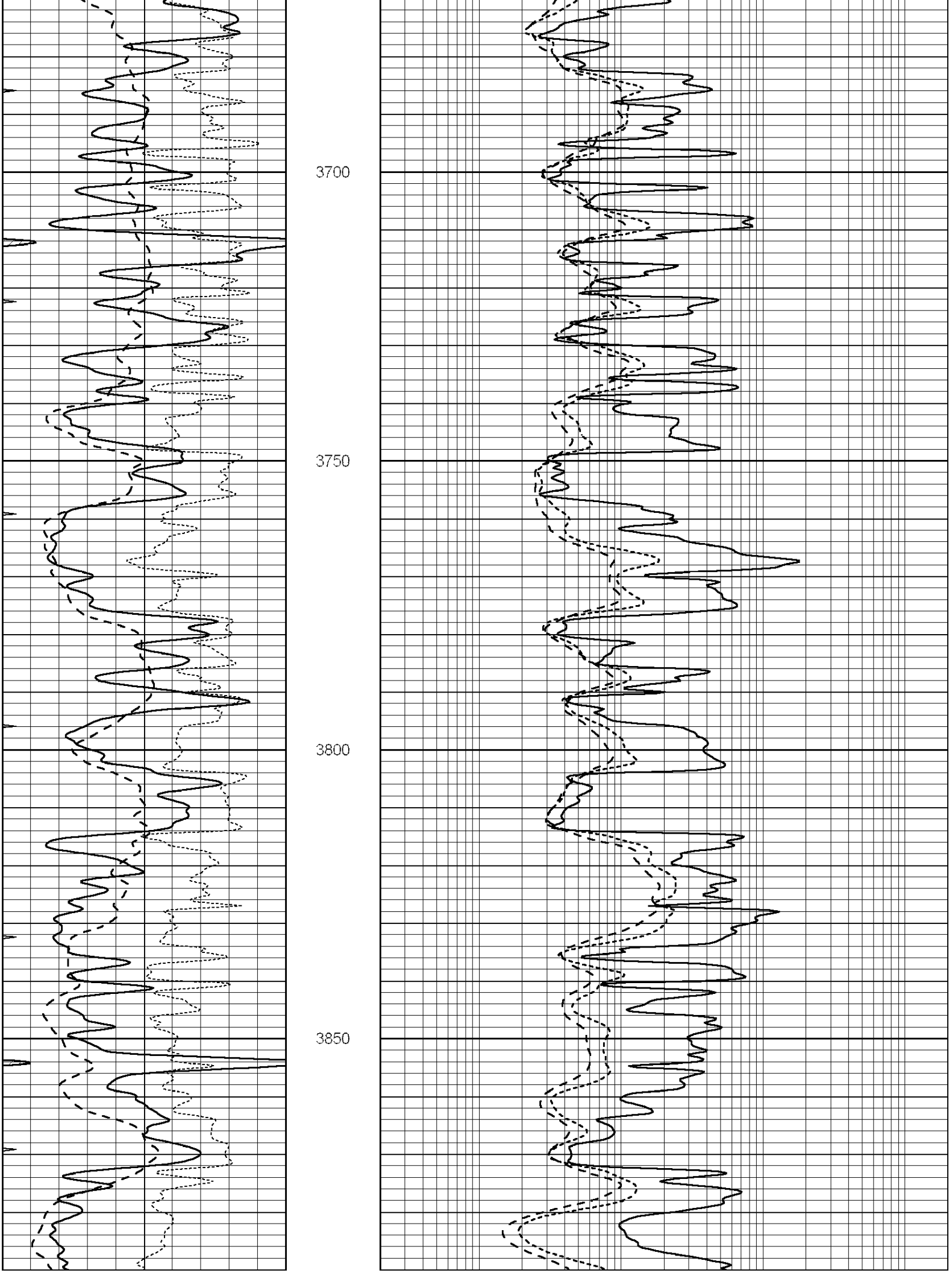
MAIN PASS

Database File:	1333dildn.db
Dataset Pathname:	pass3.1
Presentation Format:	_dil
Dataset Creation:	Sat Dec 10 03:26:59 2016 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

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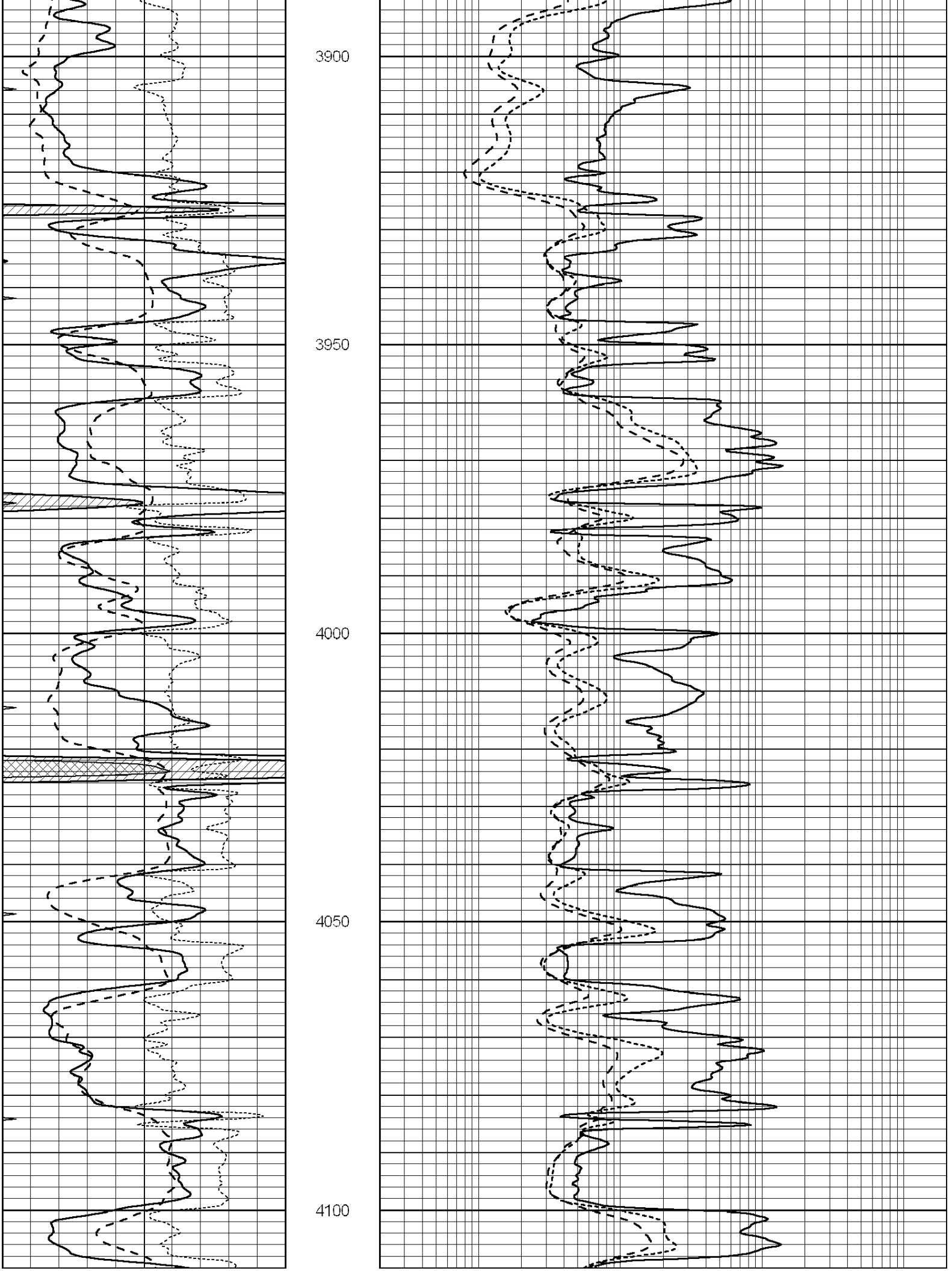
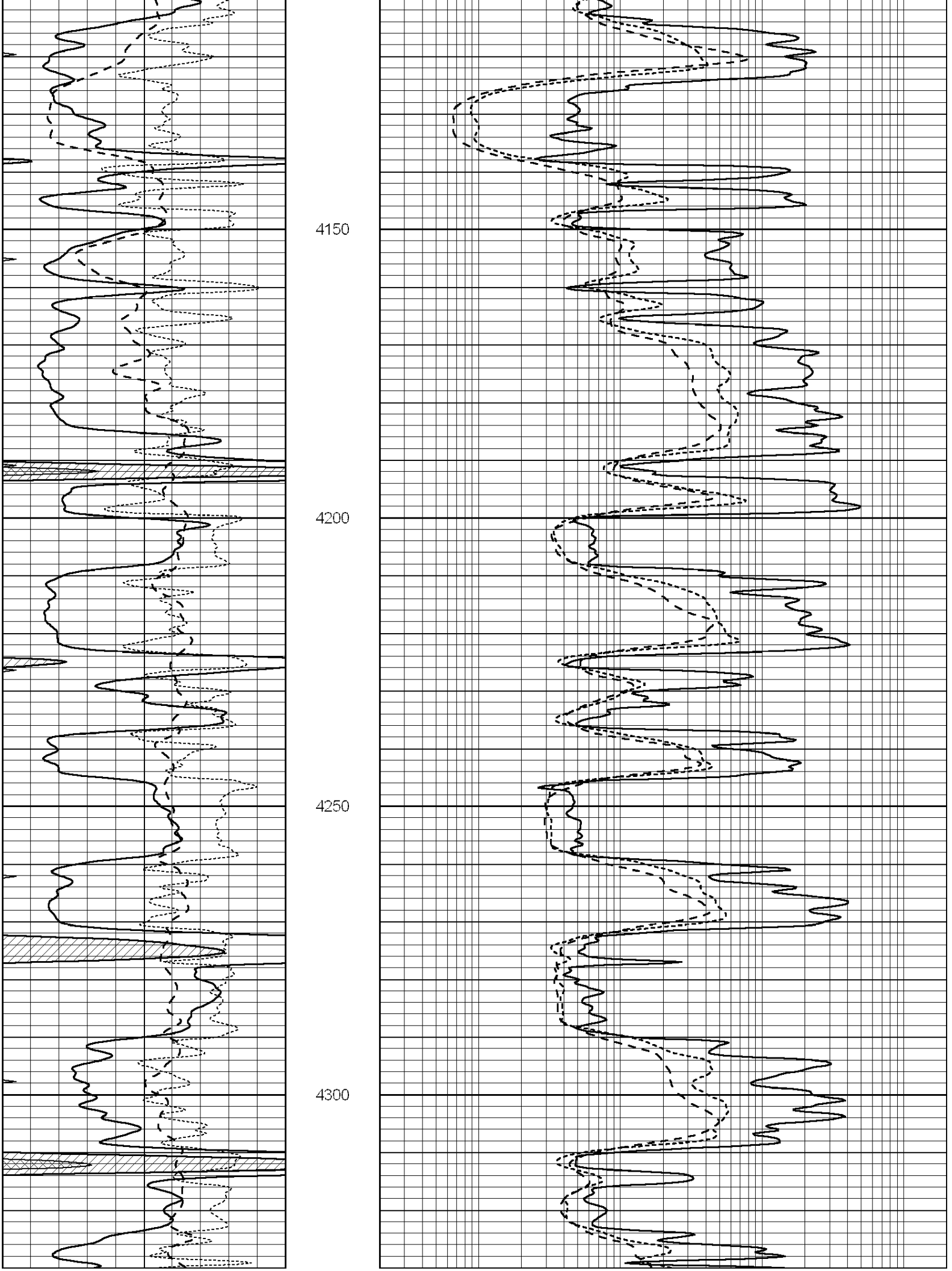
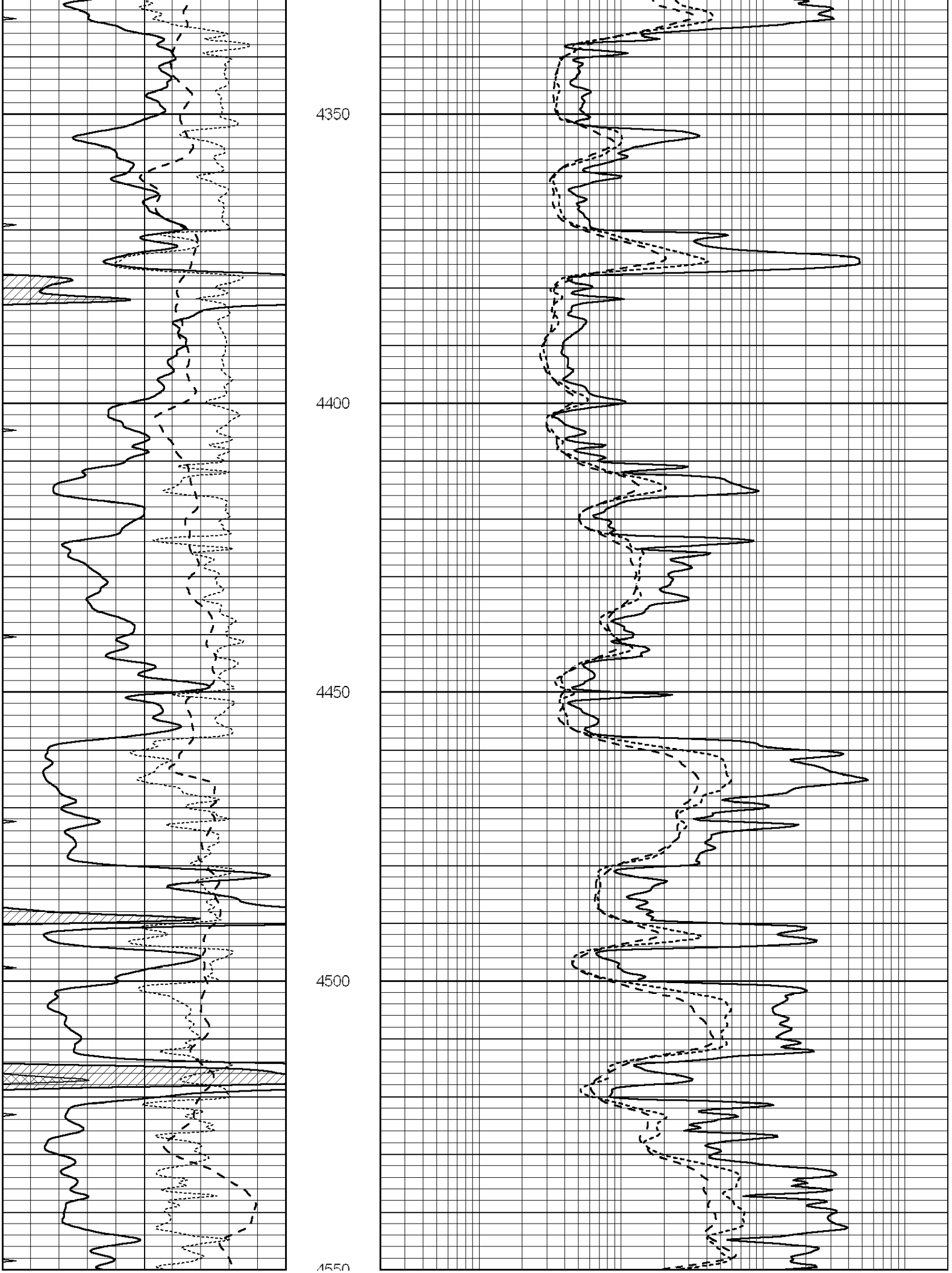
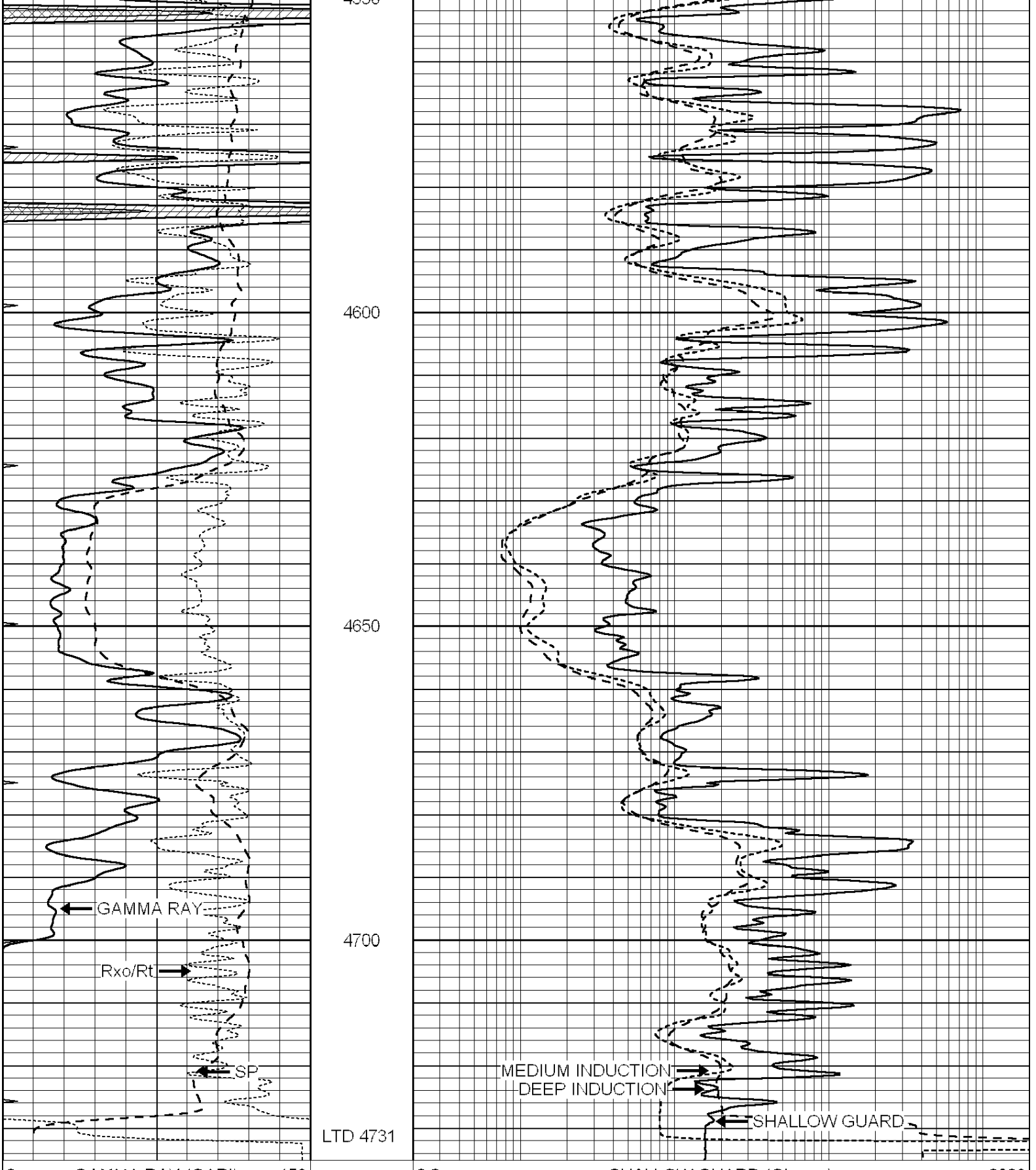
3750
3800
3850


3900
3950
4000
4050
4100


4150
4200
4250
4300


4350
4400
4450
4500
4550

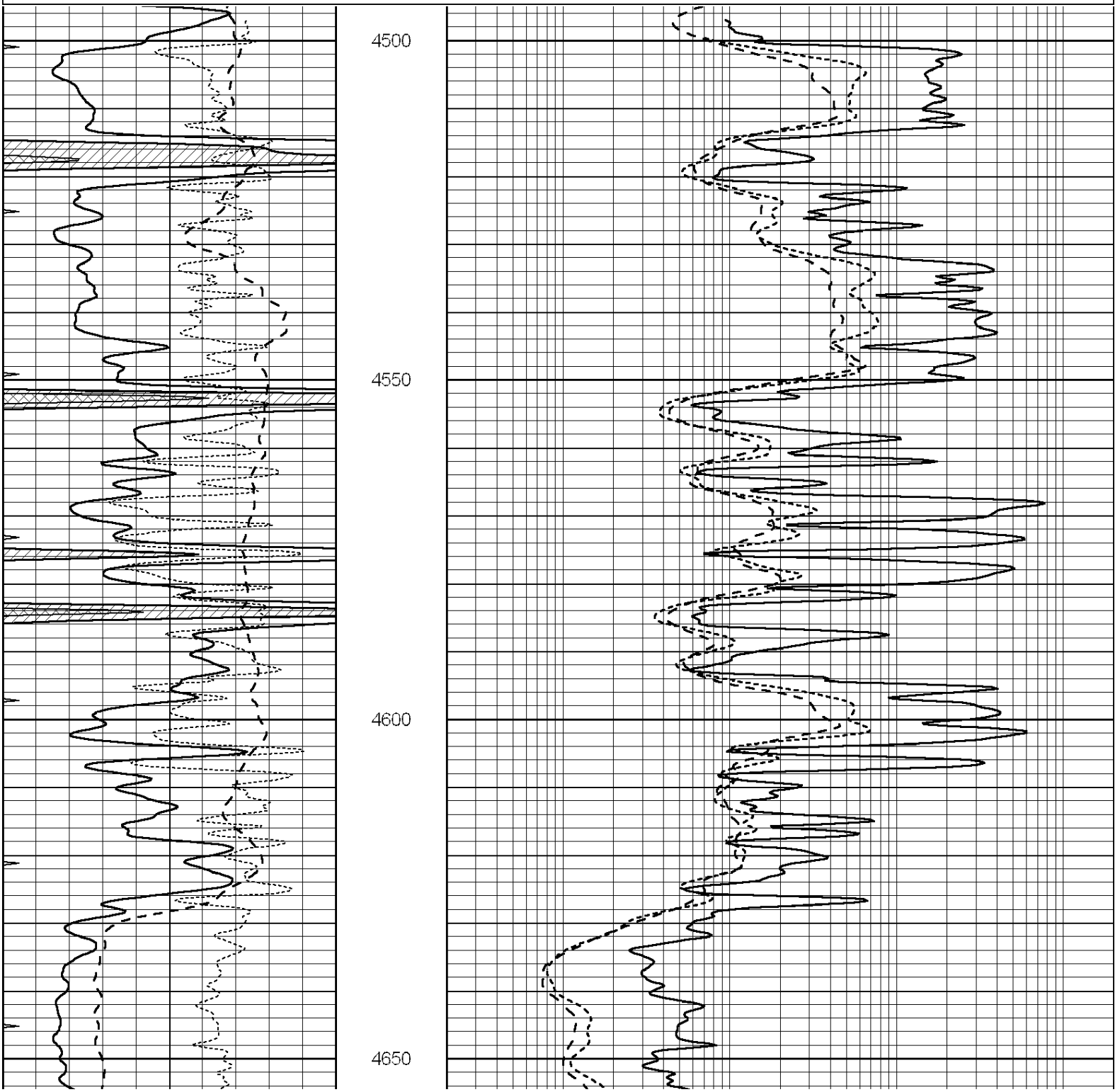

4600
4650
4700
LTD 4731
GAMMA RAY
Rxo/Rt
SP
MEDIUM INDUCTION
DEEP INDUCTION
SHALLOW GUARD
0 GAMMA RAY (GAPI) 150
-100 SP (mV) 100
-250 Rxo/Rt 50
0 MINMK 20
0.2 SHALLOW GUARD (Ohm-m) 2000
0.2 DEEP INDUCTION (Ohm-m) 2000
0.2 MEDIUM INDUCTION (Ohm-m) 2000

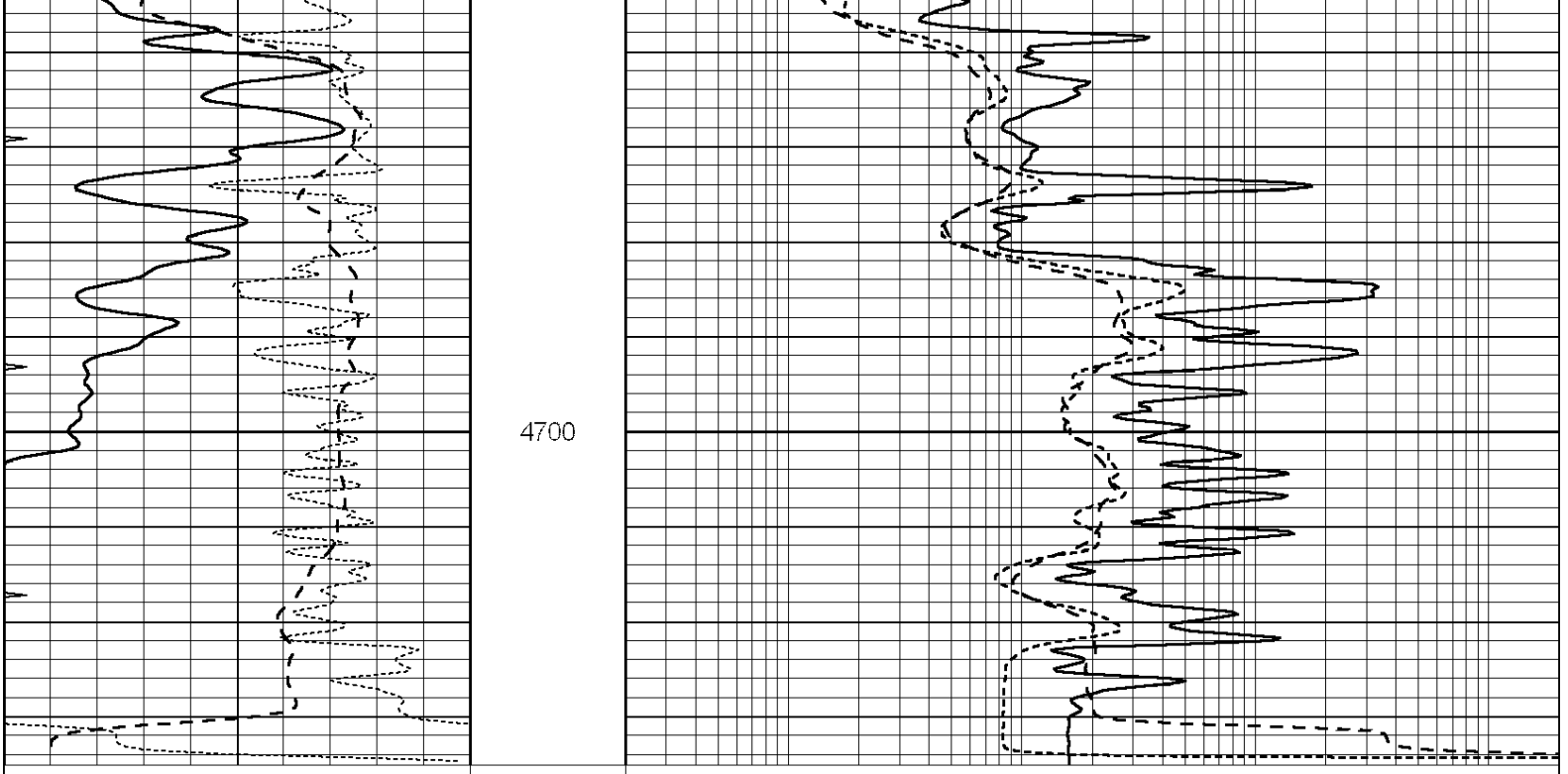
REPEAT SECTION

Database File:	1333dildn.db
Dataset Pathname:	pass2.1
Presentation Format:	_dil
Dataset Creation:	Sat Dec 10 03:40:09 2016 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





Calibration Report

Database File: 1333dildn.db
Dataset Pathname: pass3.1
Dataset Creation: Sat Dec 10 03:26:59 2016 by Calc SOC 120430

Dual Induction Calibration Report

Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Thu Nov 03 11:12:55 2016
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	625.000	0.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	675.000	-45.000
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: 004N Model: PRB

Master Calibration — Performed Fri May 30 11:01:00 2014

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1378.8	10804.6	3492.0	12453.4	cps
Window 2	1262.4	9313.5	3076.7	10594.7	cps
Window 3	1077.6	5668.7	2076.0	6314.8	cps
Window 4	306.4	313.0	306.4	315.6	cps
Long Space	0.0	8051.0	1814.3	9332.3	cps
Short Space	1.9	1706.1	1146.0	1707.6	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe		0.0000	2.5700	1.5500	

Rib Angle	: 45.0	Rib Slope	: 1.002	Density/Spine Ratio	: 0.571
Spine Angle	: 75.0	Spine Slope	: 3.745	Spine Intercept	: -18.9

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

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:	Mon Aug 22 01:00:15 2016	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2800	GAPI/cps

MICRO LOG

Company ETERNITY EXPLORATION, LLC
Well LANDENBURGER NO.1
Field WILDCAT
County THOMAS
State KANSAS

Location: API # : 15-193-20980-00-00
330' FSL & 330' FEL
SEC 13 TWP 9S RGE 32W

Permanent Datum GROUND LEVEL Elevation 3027
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CNL/CDL
DIL/SONIC

Elevation
K.B. 3032
D.F. 3030
G.L. 3027

Date	12/10/16		
Run Number	TWO		
Depth Driller	4730		
Depth Logger	4731		
Bottom Logged Interval	4713		
Top Log Interval	3800		
Casing Driller	8 5/8"@249'		
Casing Logger	246'		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,000 PPM	
Density / Viscosity	9.3/80		
pH / Fluid Loss	9.4/8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.0@80		
Rmf @ Meas. Temp	.75@80		
Rmc @ Meas. Temp	1.2@80		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.65@123		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	123 DEG/F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JUSTIN HENRICKSON		
Witnessed By	KIM SHOEMAKER	CARLO UGOLINI	

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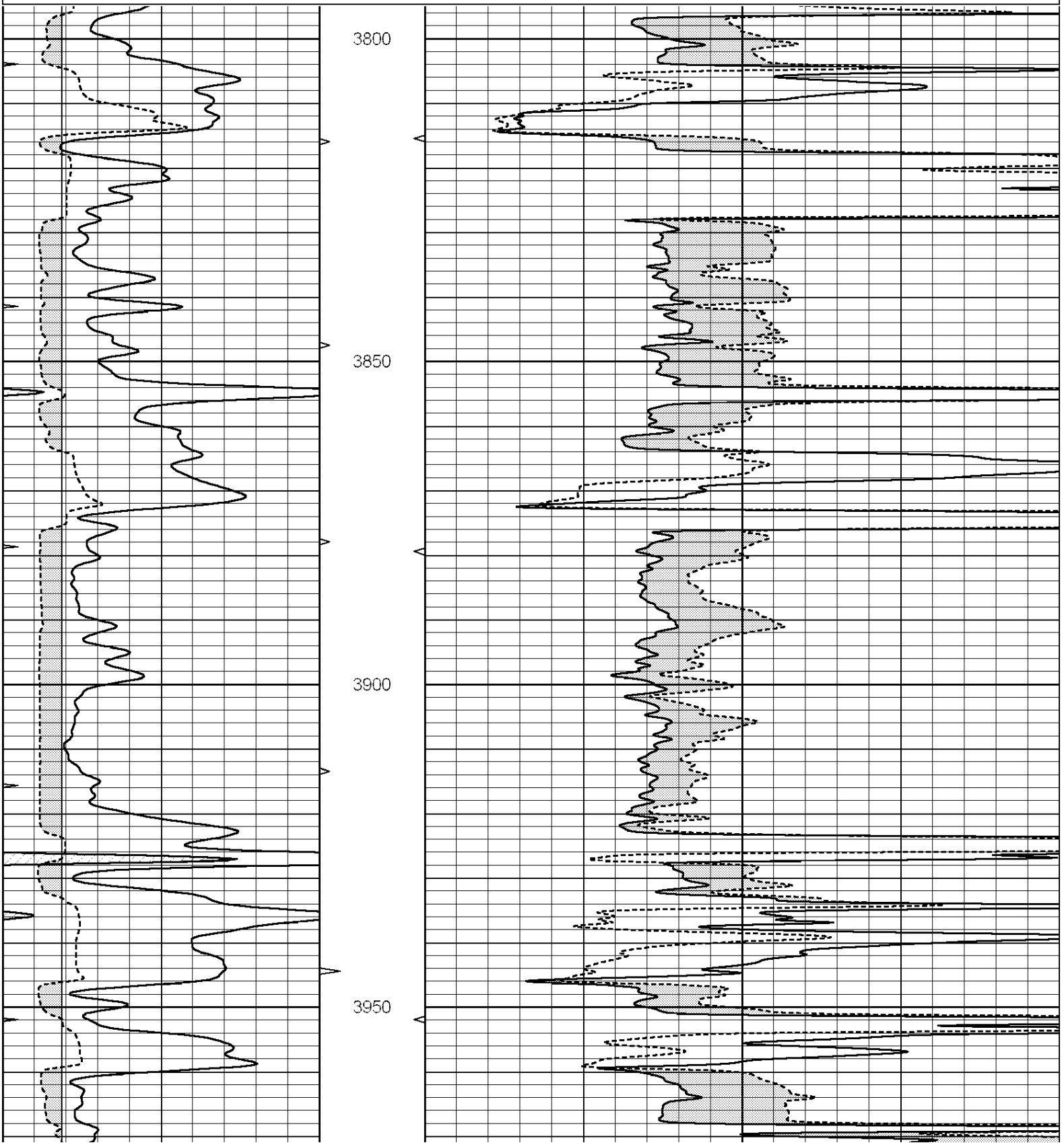
Comments

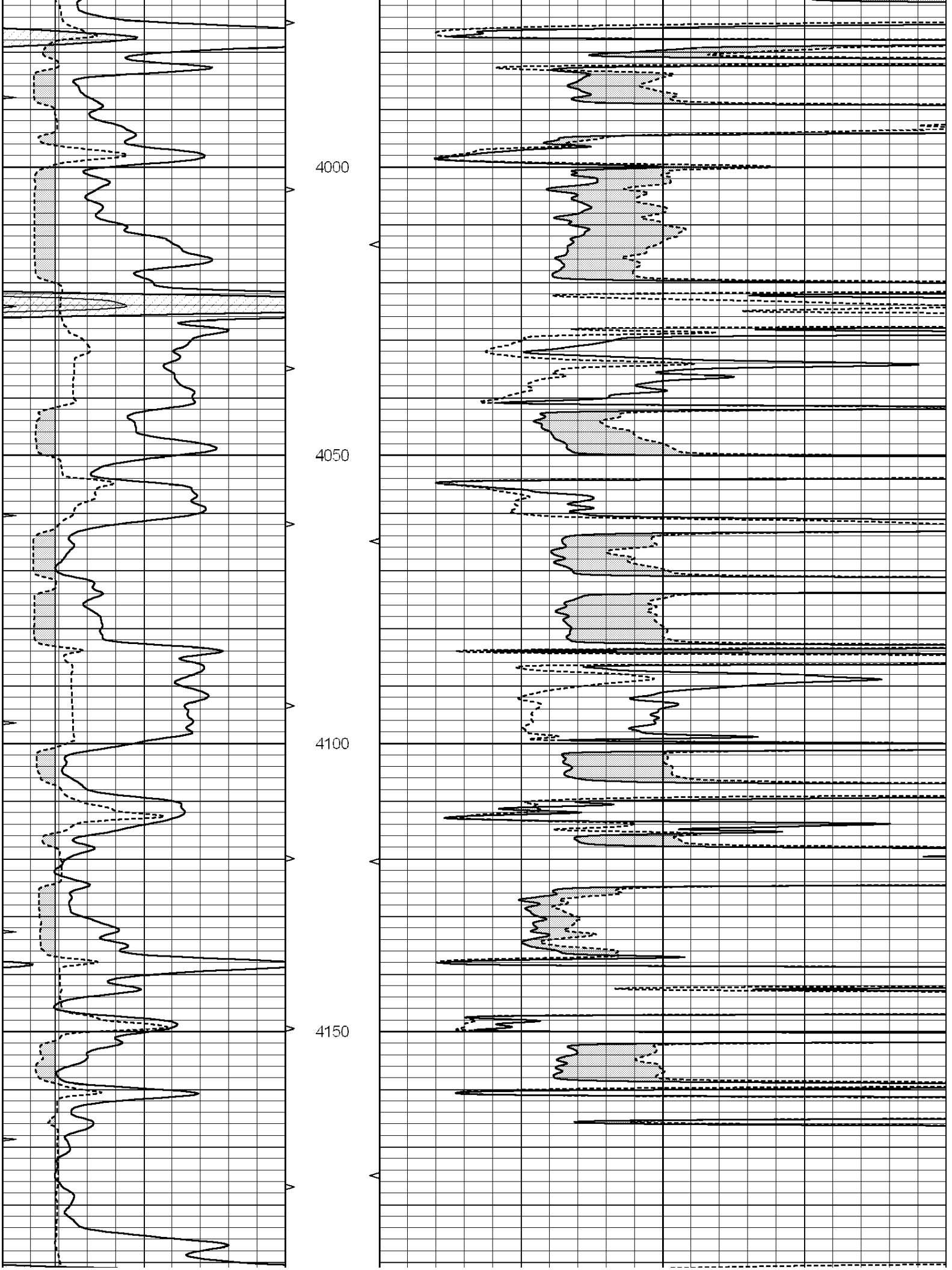
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
INTERSTATE EXIT #70
5 NORTH TO J ROAD, 2 EAST, NORTHWEST INTO

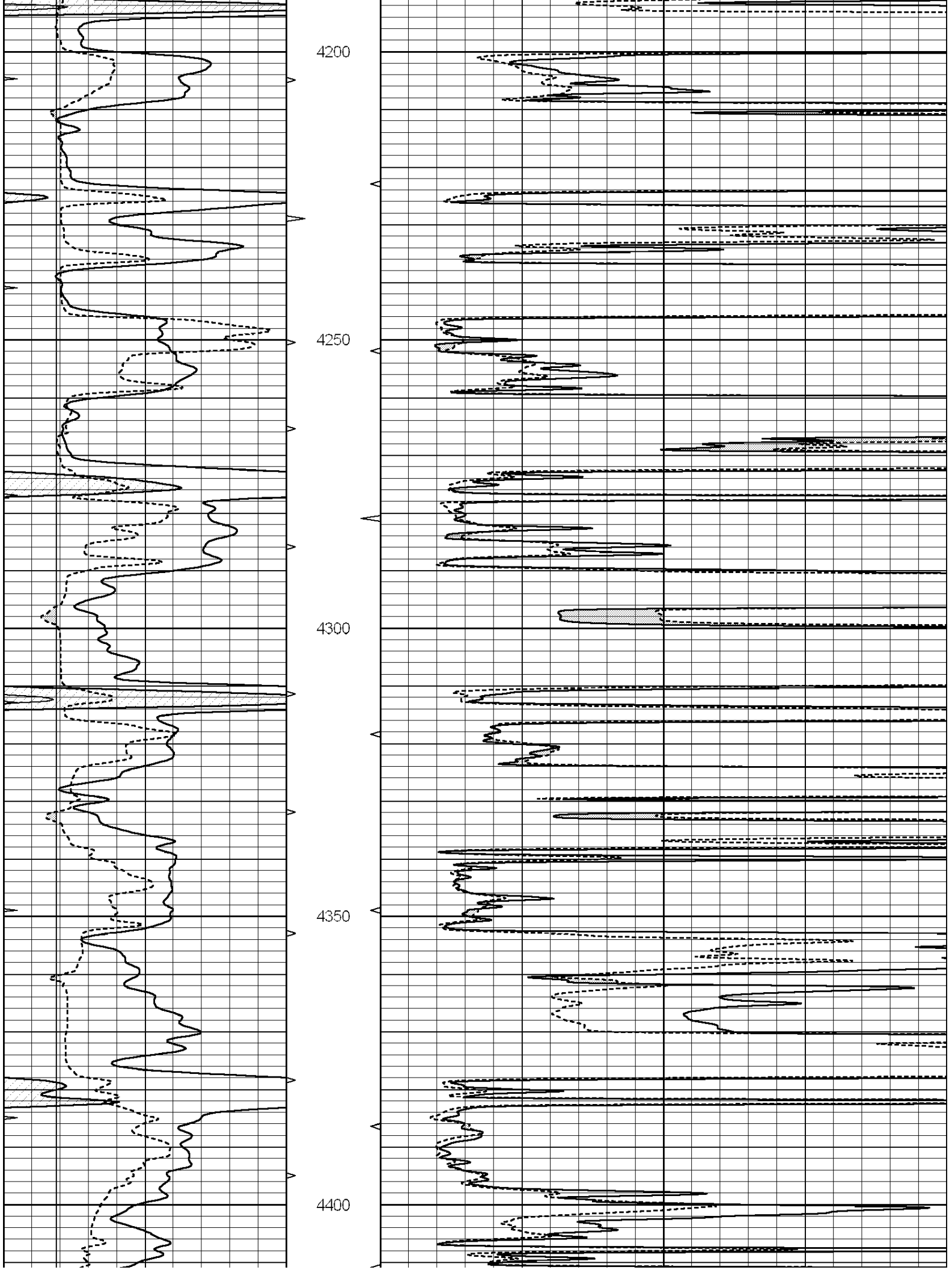
MAIN PASS

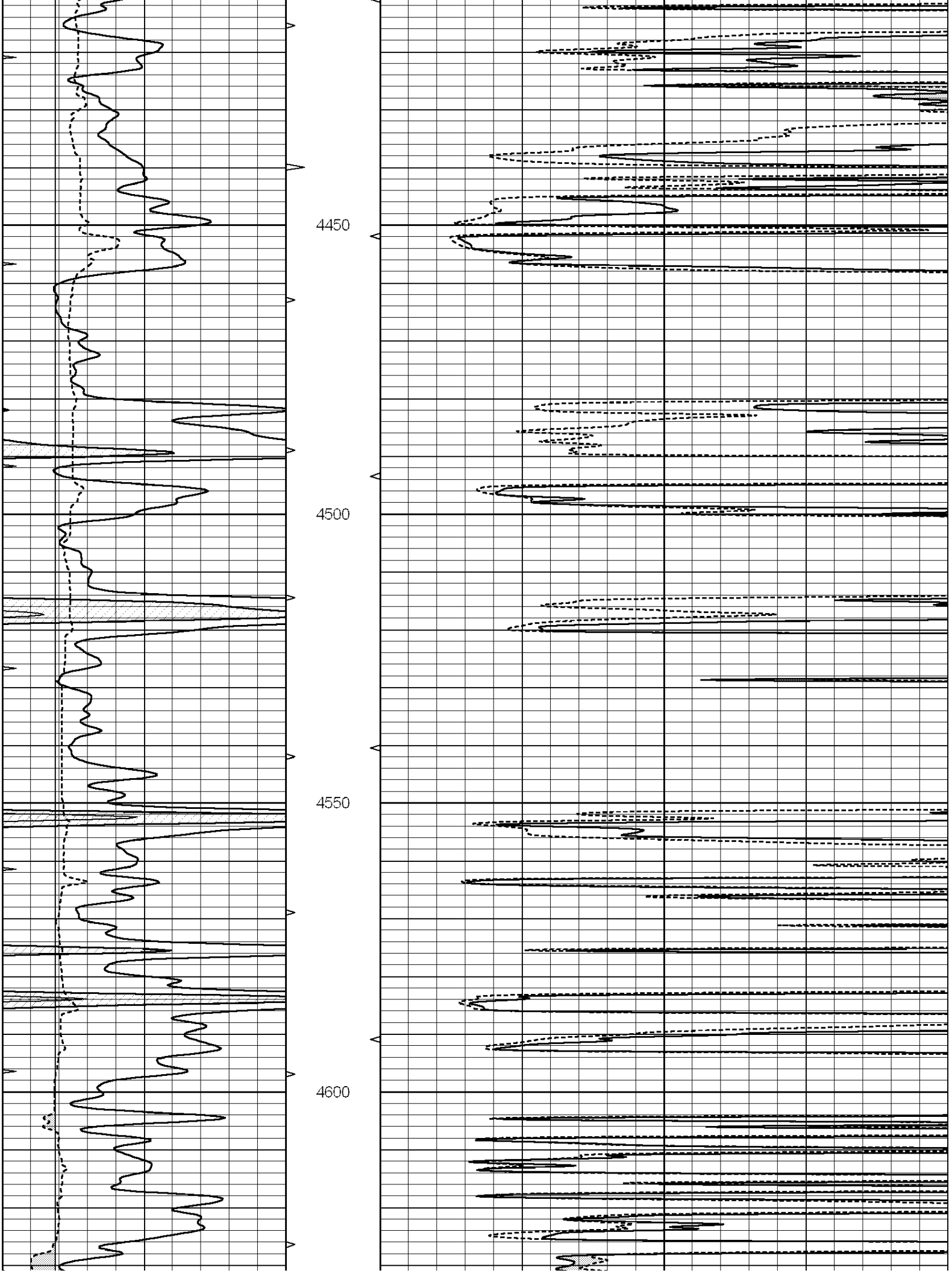
Database File:	1333dildn.db
Dataset Pathname:	pass6.1
Presentation Format:	_micro
Dataset Creation:	Sat Dec 10 05:57:48 2016 by Calc SOC 120430
Charted by:	Depth in Feet scaled 1:240

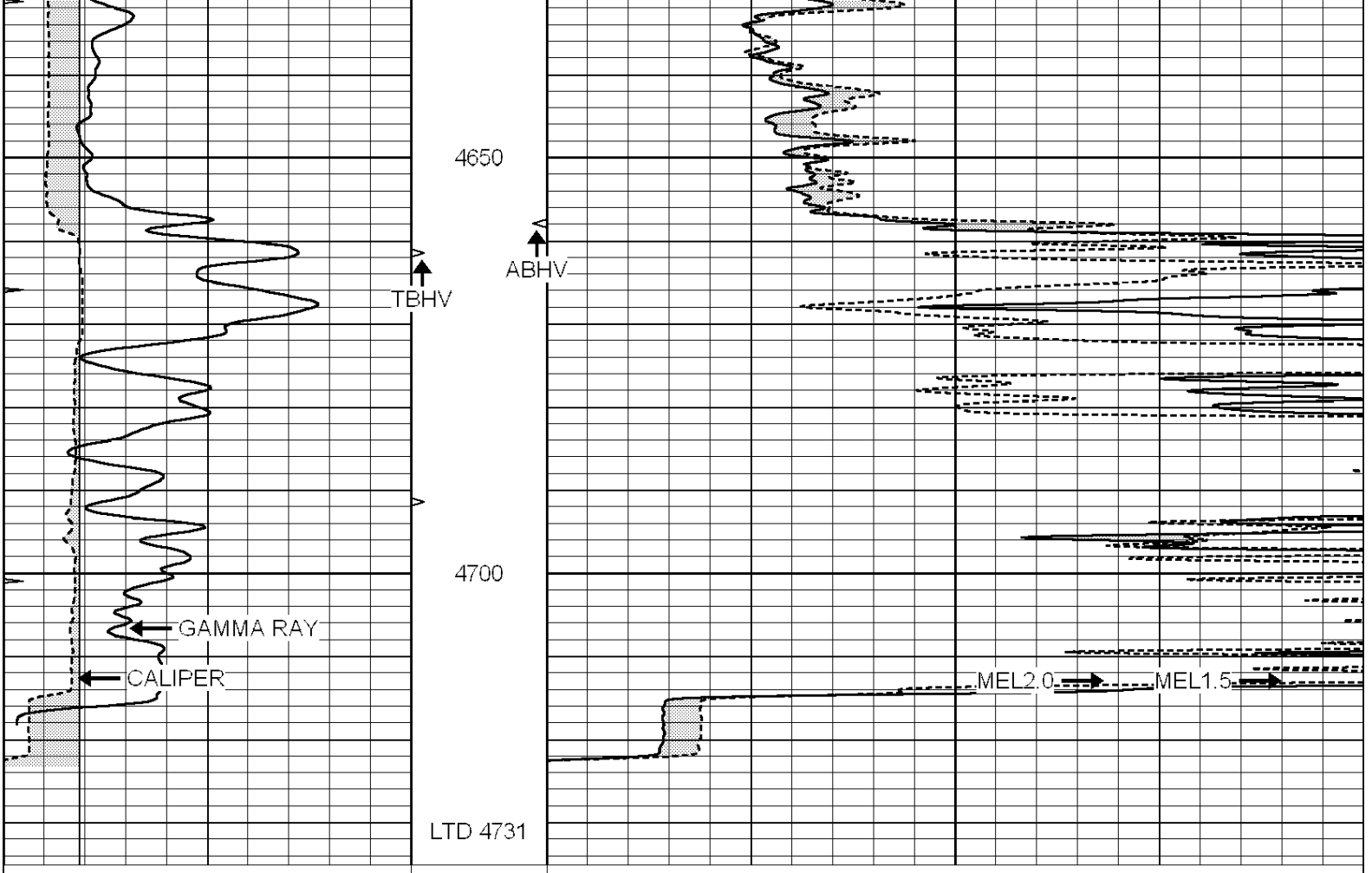
0	GAMMA RAY (GAPI)	150	ABHV	0	MEL1.5 (Ohm-m)	20
6	CALIPER (in)	16	10 (ft3) 0	0	MEL2.0 (Ohm-m)	20
0	MINMK	20	TBHV			
			0 (ft3) 10			




4000
4050
4100
4150


4200
4250
4300
4350
4400


4450
4500
4550
4600

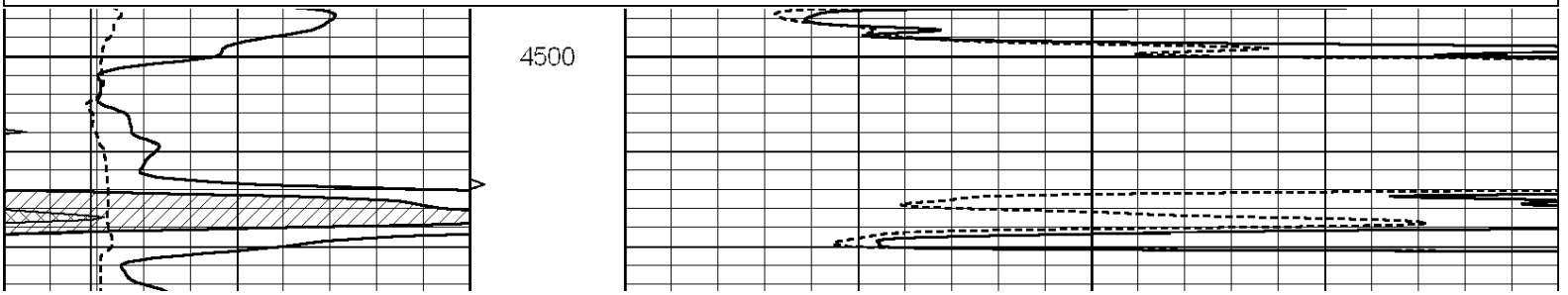


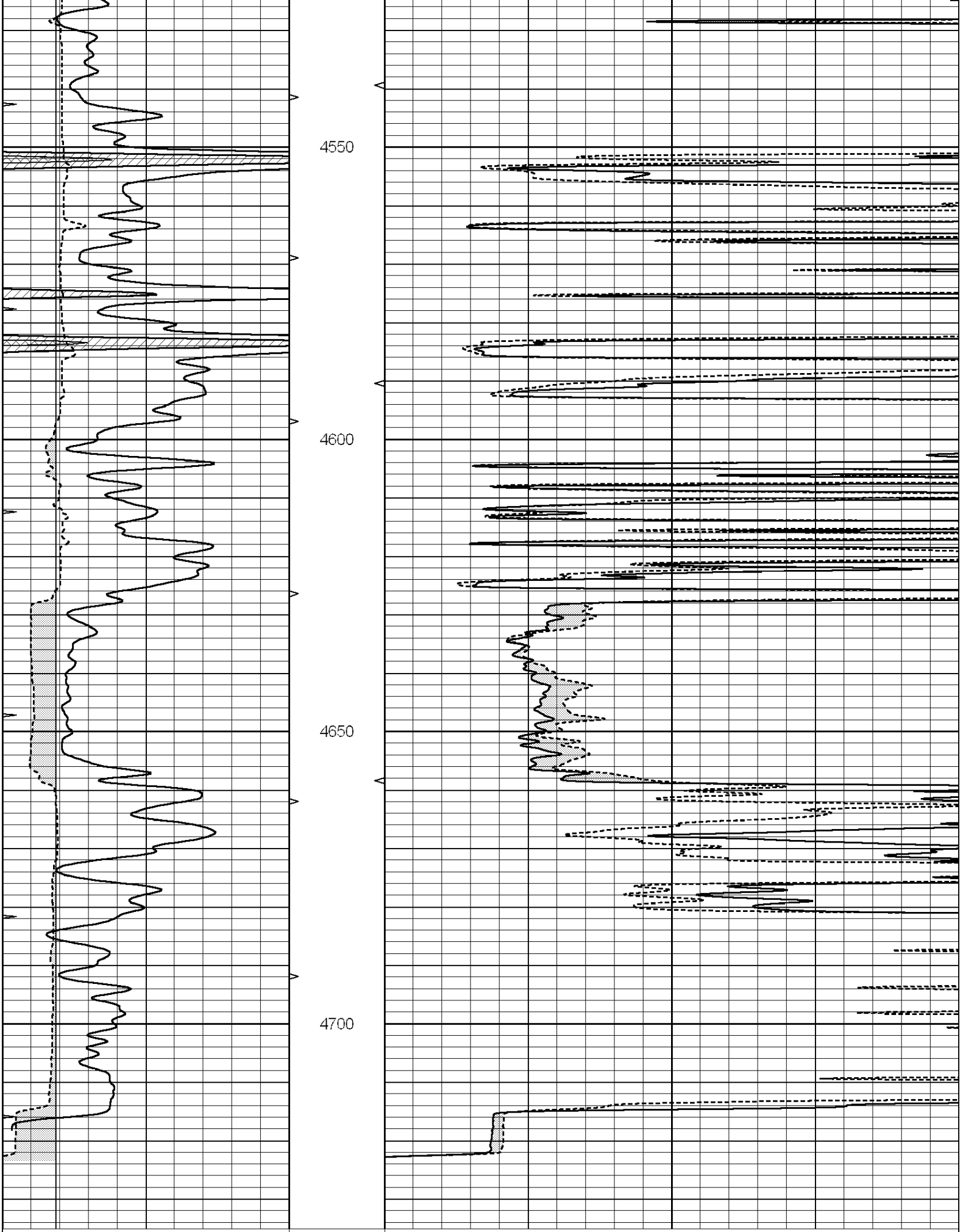
0	GAMMA RAY (GAPI) 150	ABHV		0	MEL1.5 (Ohm-m) 20
6	CALIPER (in) 16	10 (ft3) 0		0	MEL2.0 (Ohm-m) 20
0	MINMK 20	TBHV			
		0 (ft3) 10			

REPEAT SECTION

Database File: 1333dildn.db
Dataset Pathname: pass5.1
Presentation Format: _micro
Dataset Creation: Sat Dec 10 05:58:52 2016 by Calc SOC 120430
Charted by: Depth in Feet scaled 1:240

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




4550
4600
4650
4700
0 GAMMA RAY (GAPI) 150
6 CALIPER (in) 16
ABHV
10 (ft3) 0
0 MEL1.5 (Ohm-m) 20
0 MEL2.0 (Ohm-m) 20

0	MINMK	20	TBHV
			0 (ft3) 10

Calibration Report

Database File: 1333dildn.db
Dataset Pathname: pass5
Dataset Creation: Sat Dec 10 05:17:38 2016 by Log SOC 120430

MICRO Calibration Report

Serial Number:	070912	
Tool Model:	ProbeN	
Performed:	Wed Nov 23 08:42:36 2016	
Caliper Calibration:	Gain=2.790	Offset=5.836
	Low Cal	High Cal
References	7.200	15.000
Readings	0.489	3.285
1.5" Calibration:	Gain=42.000	Offset=-0.600
	Low Cal	High Cal
References	0.000	20.000
Readings	0.002	1.239
2" Calibration:	Gain=45.000	Offset=-0.600
	Low Cal	High Cal
References	0.000	20.000
Readings	0.003	1.075

Gamma Ray Calibration Report

Serial Number:	110959	
Tool Model:	OPEN_GR	
Performed:	Tue Dec 06 03:03:33 2016	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2100	GAPI/cps

COMPENSATED DENSITY / NEUTRON LOG

Company	ETERNITY EXPLORATION, LLC
Well	LANDENBURGER NO.1
Field	WILDCAT
County	THOMAS
State	KANSAS

Company ETERNITY EXPLORATION, LLC

Well LANDENBURGER NO.1

Field WILDCAT

County THOMAS State KANSAS

Location: API # : 15-193-20980-00-00

330' FSL & 330' FEL

SEC 13 TWP 9S RGE 32W

Permanent Datum GROUND LEVEL Elevation 3027

Log Measured From KELLY BUSHING 5' A.G.L.

Drilling Measured From KELLY BUSHING

Other Services: DIL/MEL, SONIC

Elevation: K.B. 3032, D.F. 3030, G.L. 3027

Date	12/10/16	
Run Number	ONE	
Depth Driller	4730	
Depth Logger	4731	
Bottom Logged Interval	4706	
Top Log Interval	3500	
Casing Driller	8 5/8"@249'	
Casing Logger	246'	
Bit Size	7 7/8"	
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,000 PPM
Density / Viscosity	9.3/80	
pH / Fluid Loss	9.4/8.0	
Source of Sample	FLOWLINE	
Rm @ Meas. Temp	1.0@80	
Rmf @ Meas. Temp	.75@80	
Rmc @ Meas. Temp	1.2@80	
Source of Rmf / Rmc	MEASUREMENT	
Rm @ BHT	.65@123	
Time Circulation Stopped	2 HOURS	
Time Logger on Bottom		
Maximum Recorded Temperature	123 DEG/F	
Equipment Number	922339	
Location	HAYS, KANSAS	
Recorded By	JUSTIN HENRICKSON	
Witnessed By	KIM SHOEMAKER	CARLO UGOLINI

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Comments

THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395

DIRECTIONS

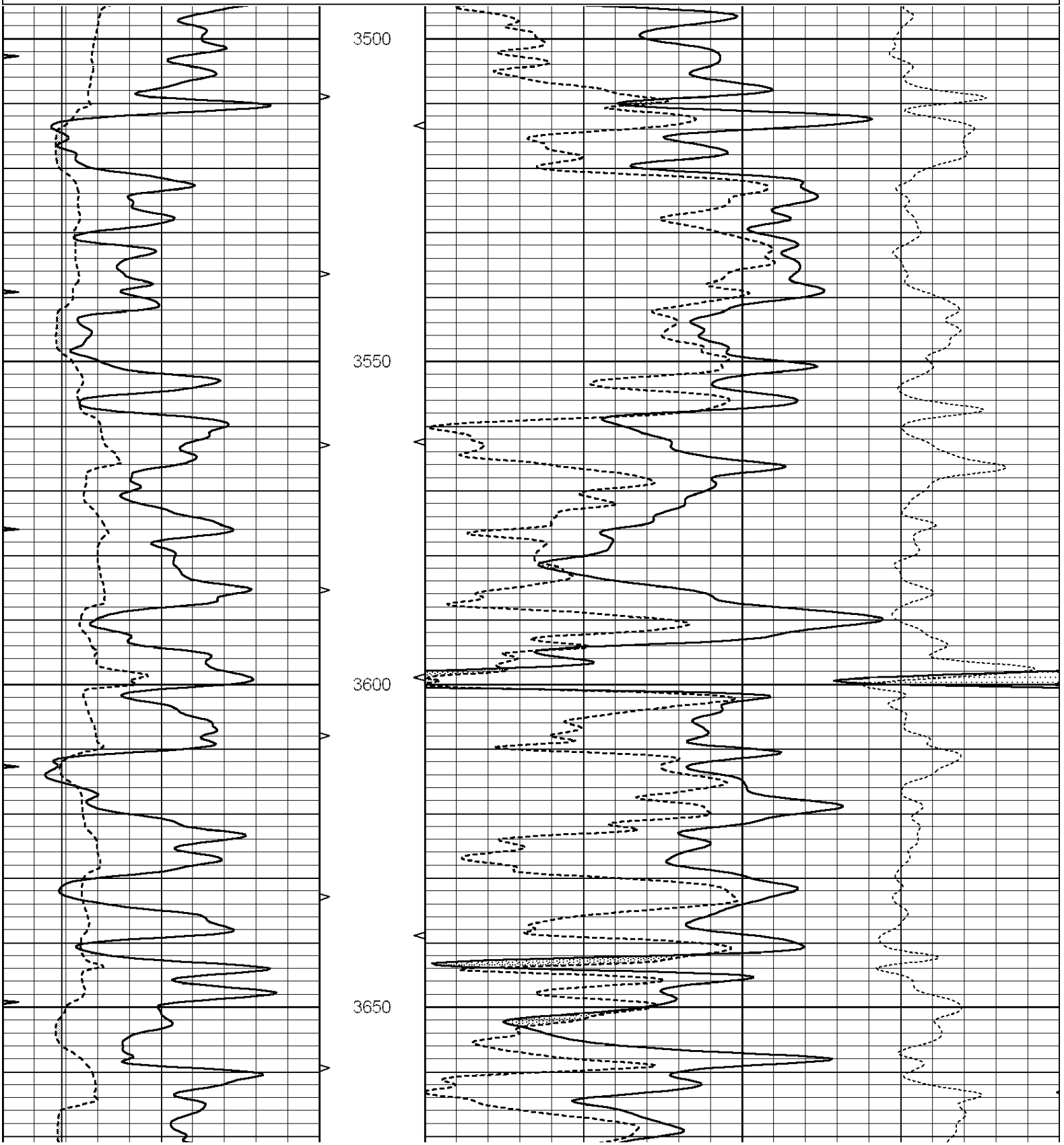
INTERSTATE EXIT #70

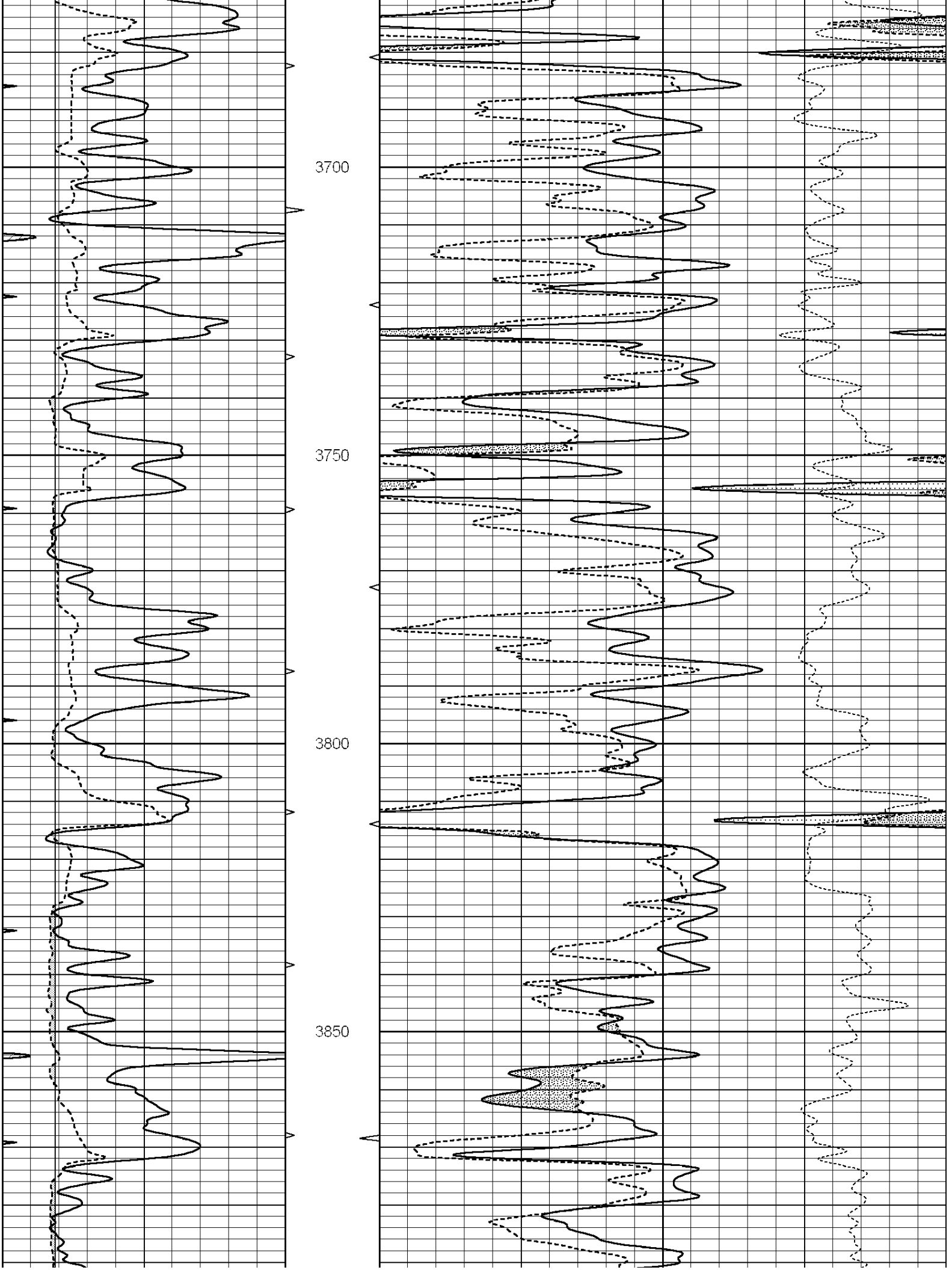
5 NORTH TO J ROAD, 2 EAST, NORTHWEST INTO

MAIN PASS

Database File:	1333dildn.db
Dataset Pathname:	pass3.1
Presentation Format:	den_neu
Dataset Creation:	Sat Dec 10 03:26:59 2016 by Calc SOC 120430
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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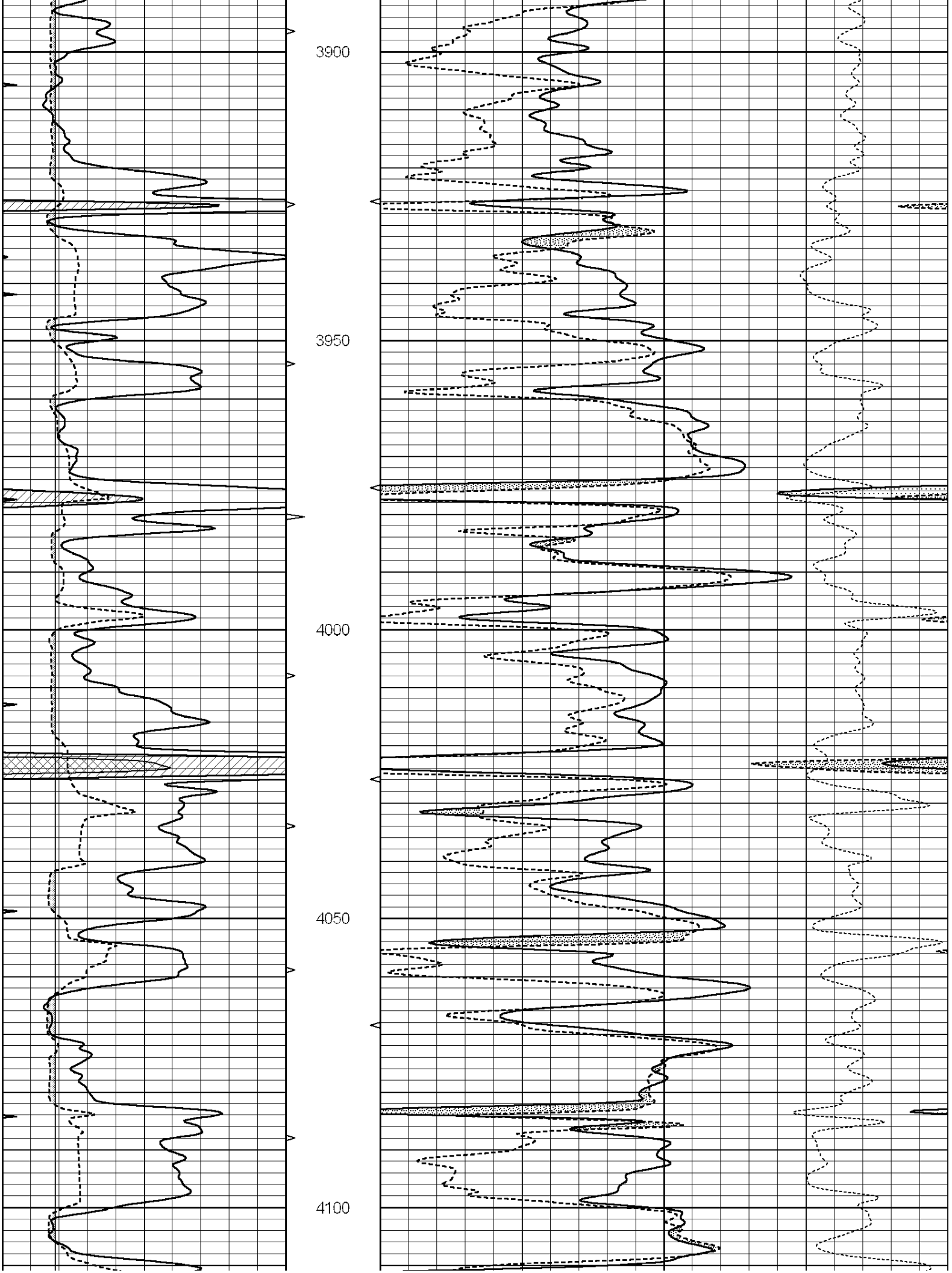
3850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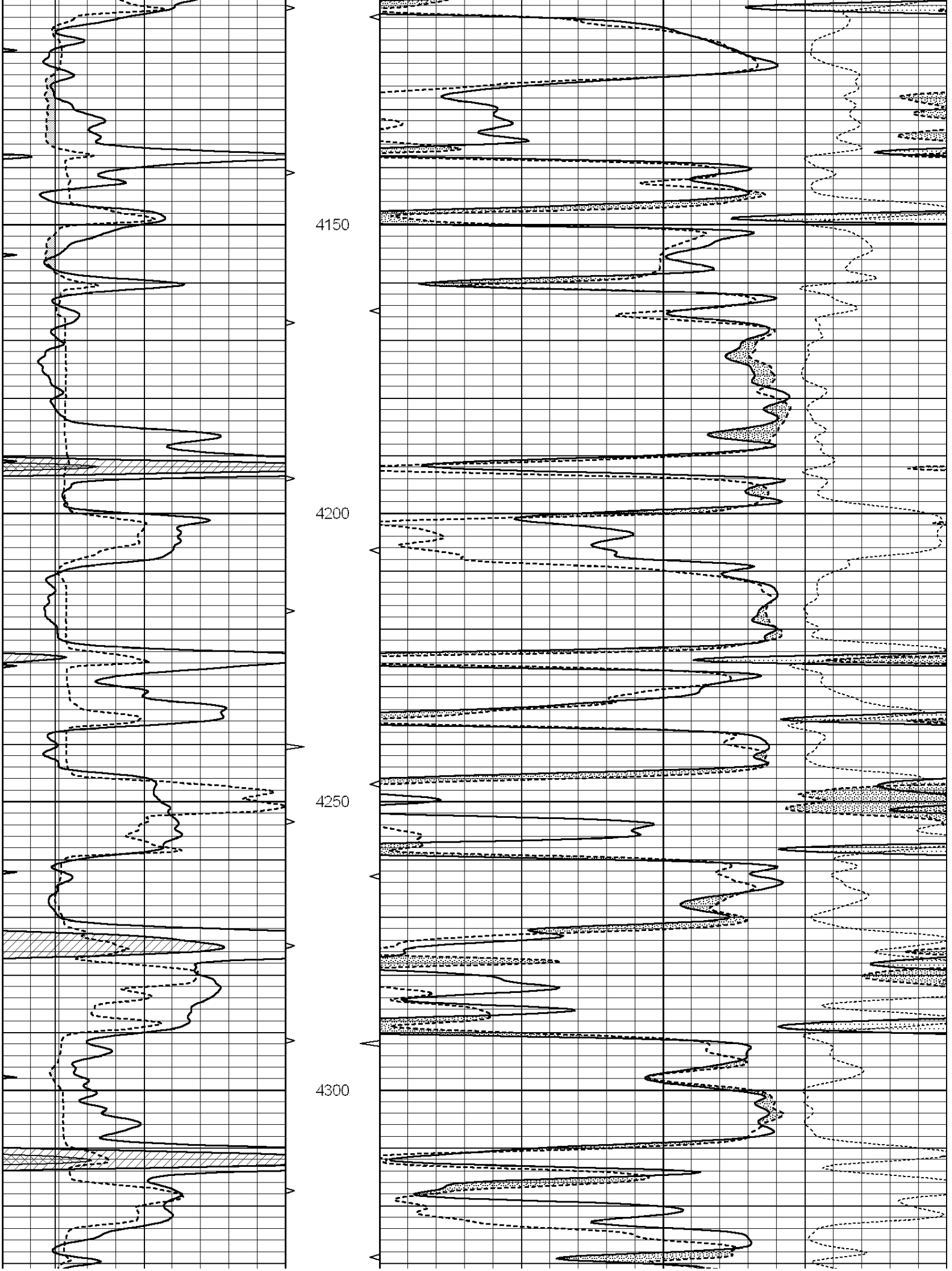
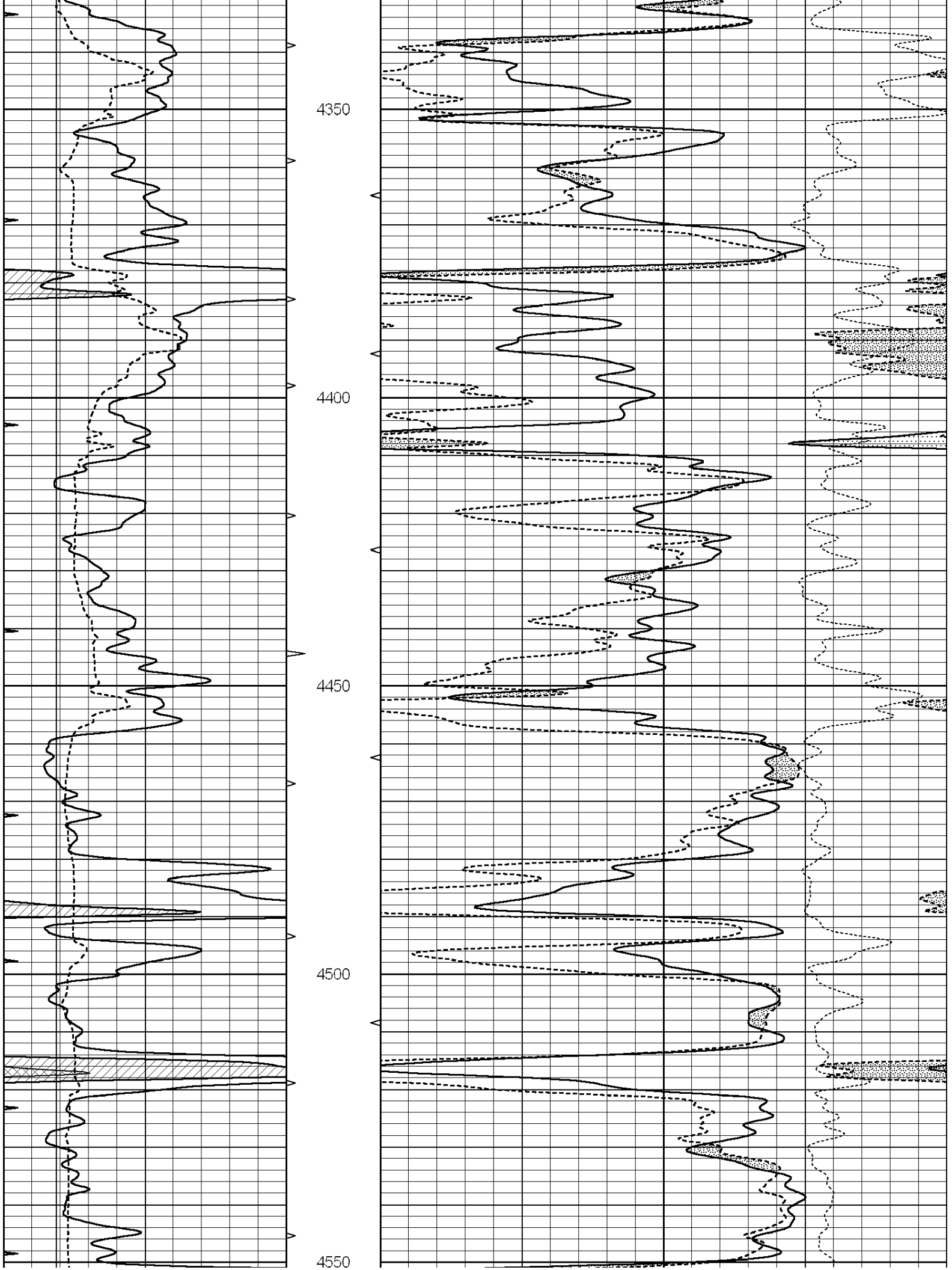
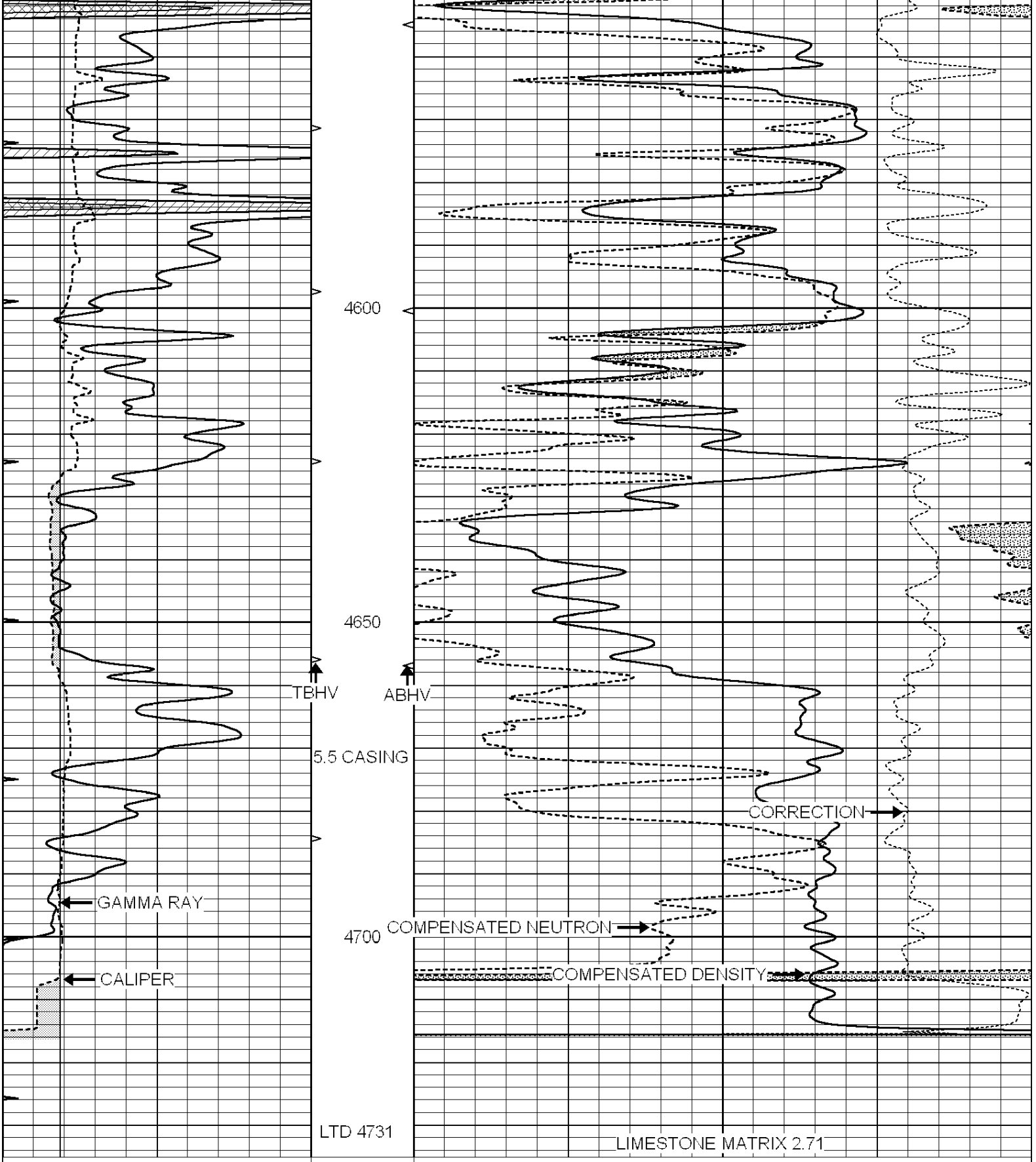
3950
4000
4050
4100


4150
4200
4250
4300


4350
4400
4450
4500
4550

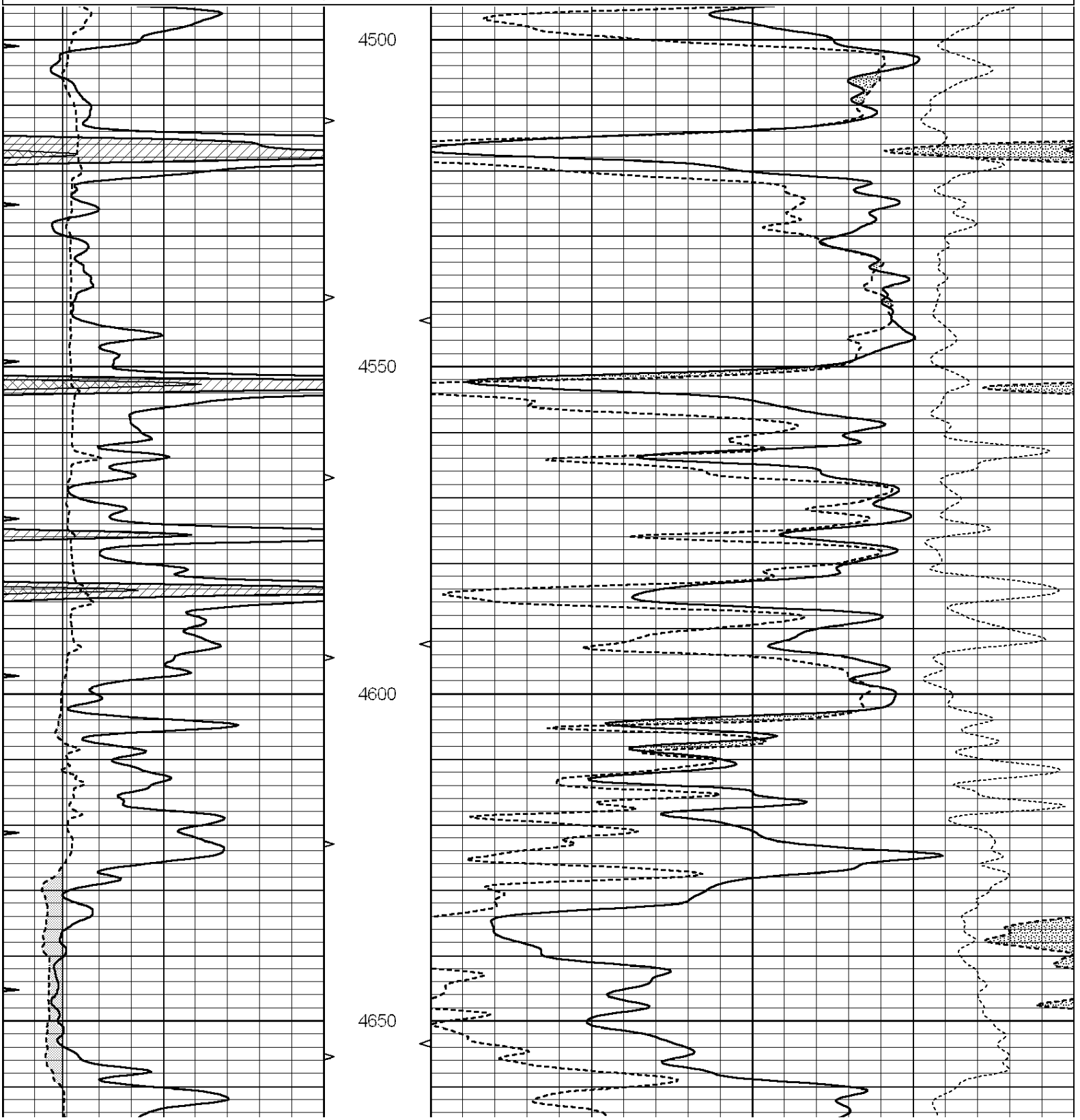


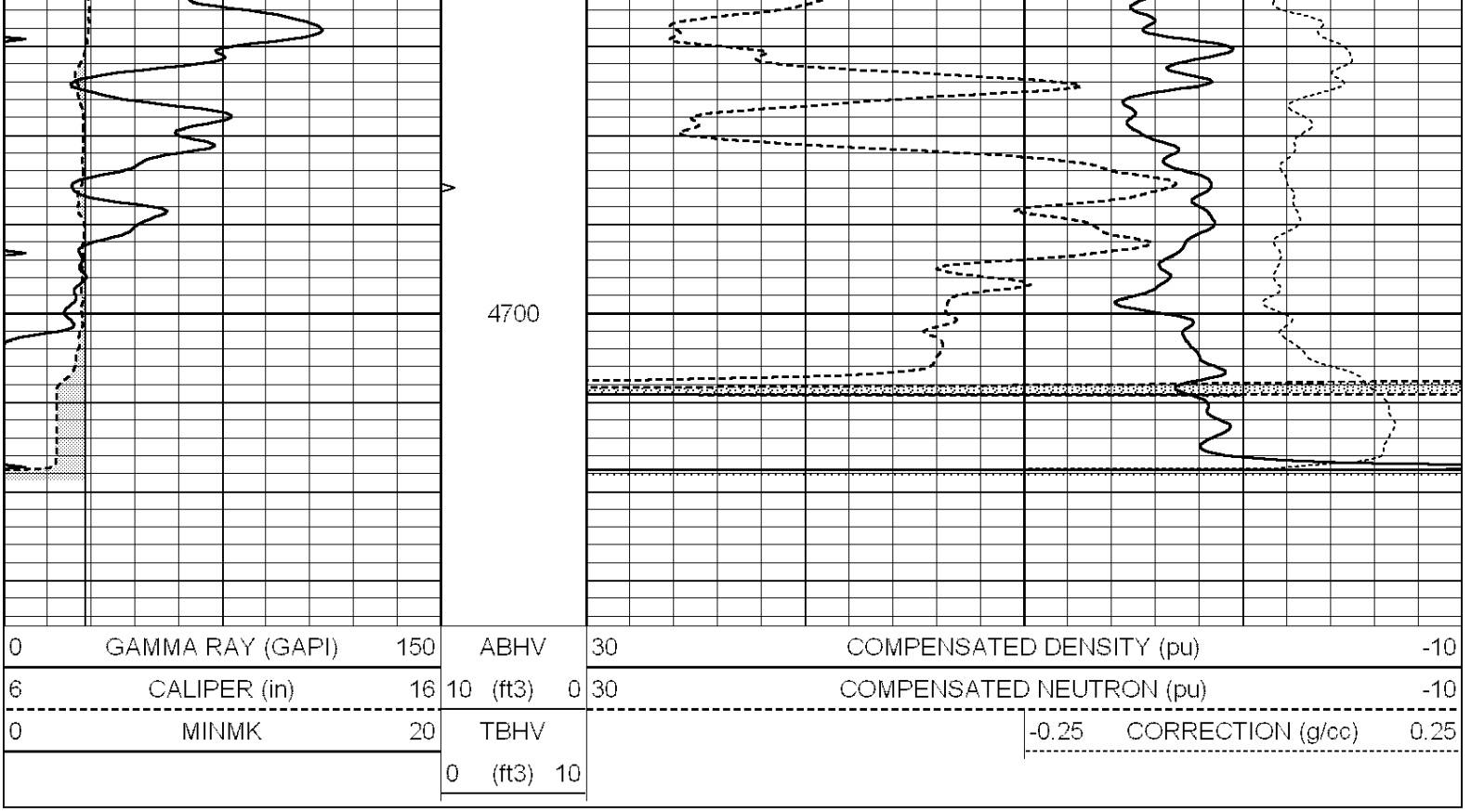
REPEAT SECTION

REPEAT SECTION

Database File:	1333dildn.db
Dataset Pathname:	pass2.1
Presentation Format:	den_neu
Dataset Creation:	Sat Dec 10 03:40:09 2016 by Calc SOC 120430
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				





Calibration Report

Database File: 1333dildn.db
Dataset Pathname: pass3.1
Dataset Creation: Sat Dec 10 03:26:59 2016 by Calc SOC 120430

Dual Induction Calibration Report

Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Thu Nov 03 11:12:55 2016
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	625.000	0.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	675.000	-45.000
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: 004N Model: PRB

Master Calibration — Performed Fri May 30 11:01:00 2014

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1378.8	10804.6	3492.0	12453.4	cps
Window 2	1262.4	9313.5	3076.7	10594.7	cps
Window 3	1077.6	5668.7	2076.0	6314.8	cps
Window 4	306.4	313.0	306.4	315.6	cps
Long Space	0.0	8051.0	1814.3	9332.3	cps
Short Space	1.9	1706.1	1146.0	1707.6	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe		0.0000	2.5700	1.5500	

Rib Angle	: 45.0	Rib Slope	: 1.002	Density/Spine Ratio	: 0.571
Spine Angle	: 75.0	Spine Slope	: 3.745	Spine Intercept	: -18.9

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:	Mon Aug 22 01:00:15 2016	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2800	GAPI/cps

DRILL STEM TEST REPORT

Eternity Exploration LLC

338 Spyglass Dr.
Coppell, Tx 75019

ATTN: Kim Shoemaker

13-9s-32w Thomas, Ks

#1 Landenburger

Job Ticket: 65644 **DST#: 1**

Test Start: 2016.12.07 @ 03:06:40

GENERAL INFORMATION:

Formation: **LKC H-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:06:40
Time Test Ended: 10:42:40

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79

Interval: 4185.00 ft (KB) To 4269.00 ft (KB) (TVD)
Total Depth: 4269.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

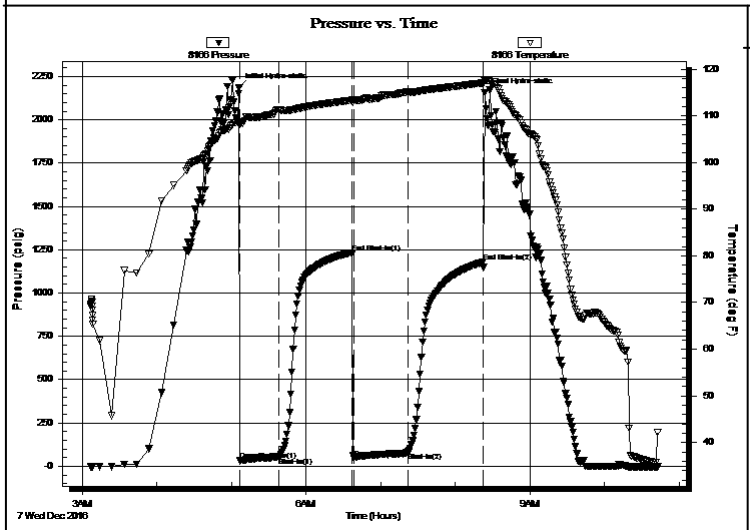
Reference Elevations: 3032.00 ft (KB)
3027.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**

Press@RunDepth: 81.56 psig @ 4186.00 ft (KB)
Start Date: 2016.12.07 End Date: 2016.12.07
Start Time: 03:06:45 End Time: 10:42:39

Capacity: 8000.00 psig
Last Calib.: 2016.12.07
Time On Btm: 2016.12.07 @ 05:06:10
Time Off Btm: 2016.12.07 @ 08:23:40

TEST COMMENT: IF: 1/4 blow built to 4 1/2 in 30 min.
IS: No return.
FF: Surface blow built to 4 in 45 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2186.71	108.57	Initial Hydro-static
1	31.61	108.22	Open To Flow (1)
32	53.55	111.25	Shut-In(1)
91	1233.65	113.35	End Shut-In(1)
92	47.00	113.27	Open To Flow (2)
136	81.56	115.10	Shut-In(2)
196	1177.86	117.04	End Shut-In(2)
198	2156.08	117.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	ocm 10%o 90%m	0.87
62.00	ocm 5%o 95%m	0.87

Gas Rates

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

DRILL STEM TEST REPORT

Eternity Exploration LLC

338 Spyglass Dr.
Coppell, Tx 75019

ATTN: Kim Shoemaker

13-9s-32w Thomas, Ks

#1 Landenburger

Job Ticket: 65644 **DST#: 1**

Test Start: 2016.12.07 @ 03:06:40

GENERAL INFORMATION:

Formation: **LKC H-J**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:06:40
Time Test Ended: 10:42:40

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79

Interval: 4185.00 ft (KB) To 4269.00 ft (KB) (TVD)
Total Depth: 4269.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

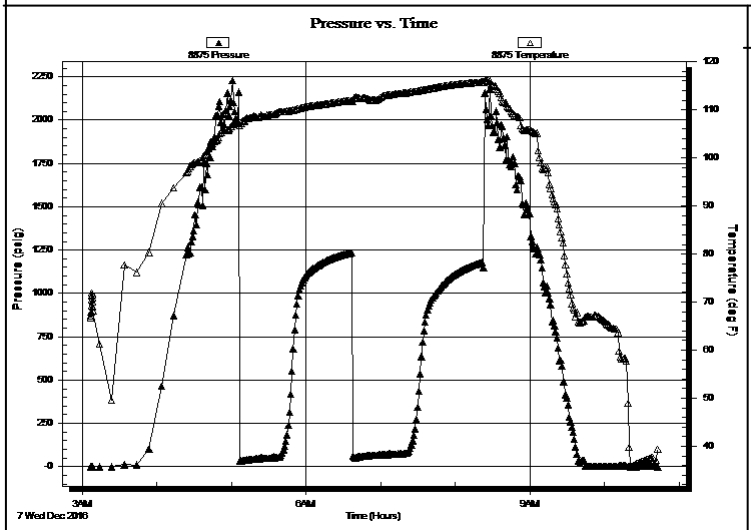
Reference Elevations: 3032.00 ft (KB)
3027.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8875 **Inside**

Press@RunDepth: psig @ 4186.00 ft (KB)
Start Date: 2016.12.07 End Date: 2016.12.07
Start Time: 03:06:51 End Time: 10:42:45

Capacity: 8000.00 psig
Last Calib.: 2016.12.07
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 1/4 blow built to 4 1/2 in 30 min.
IS: No return.
FF: Surface blow built to 4 in 45 min.
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	ocm 10%o 90%m	0.87
62.00	ocm 5%o 95%m	0.87

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Eternity Exploration LLC

338 Spyglass Dr.
Coppell, Tx 75019

ATTN: Kim Shoemaker

13-9s-32w Thomas, Ks

#1 Landenburger

Job Ticket: 65644 **DST#: 1**

Test Start: 2016.12.07 @ 03:06:40

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	64.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.79 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

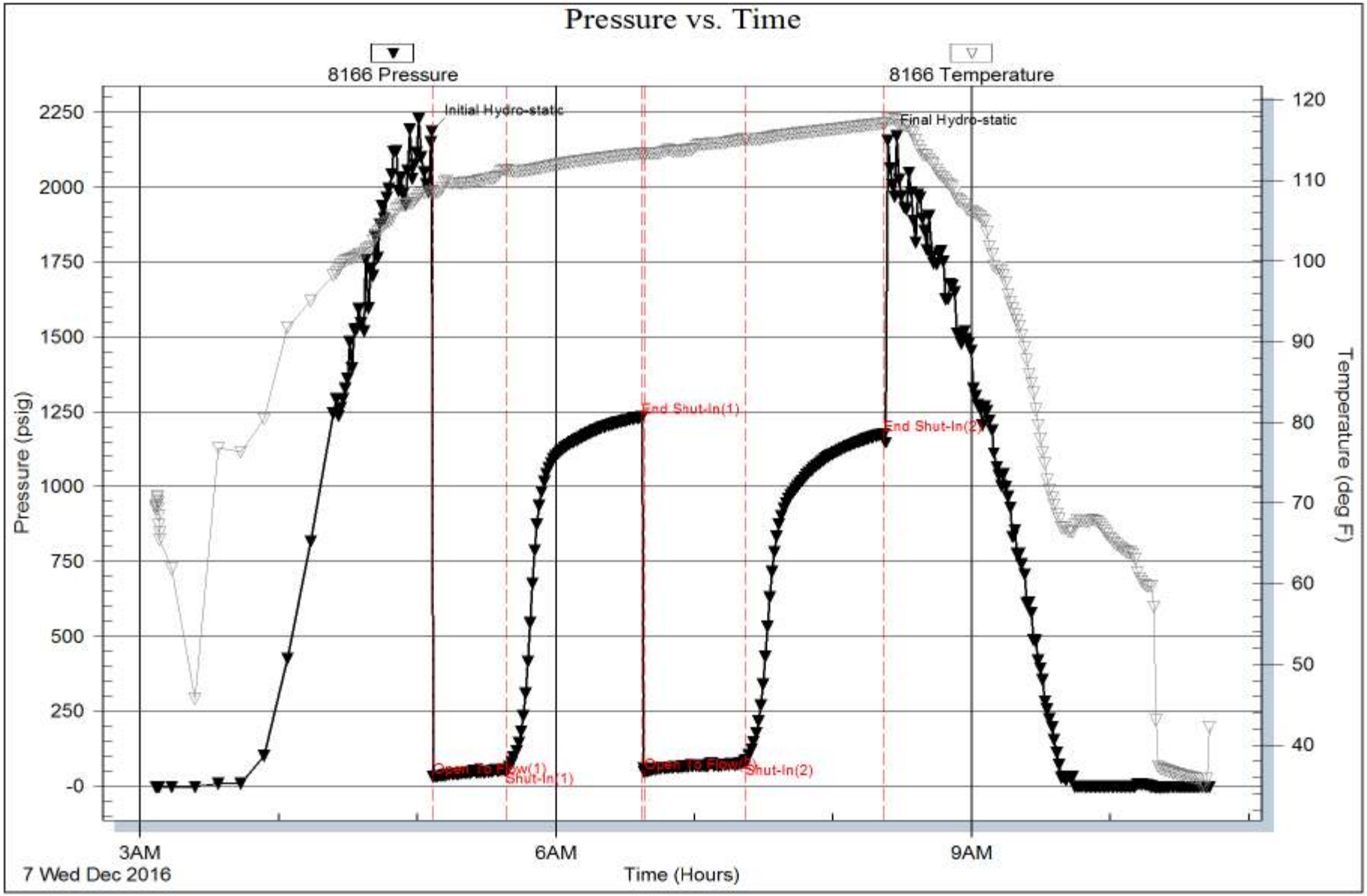
Recovery Table

Length ft	Description	Volume bbl
62.00	ocm 10%o 90%m	0.870
62.00	ocm 5%o 95%m	0.870

Total Length: 124.00 ft Total Volume: 1.740 bbl

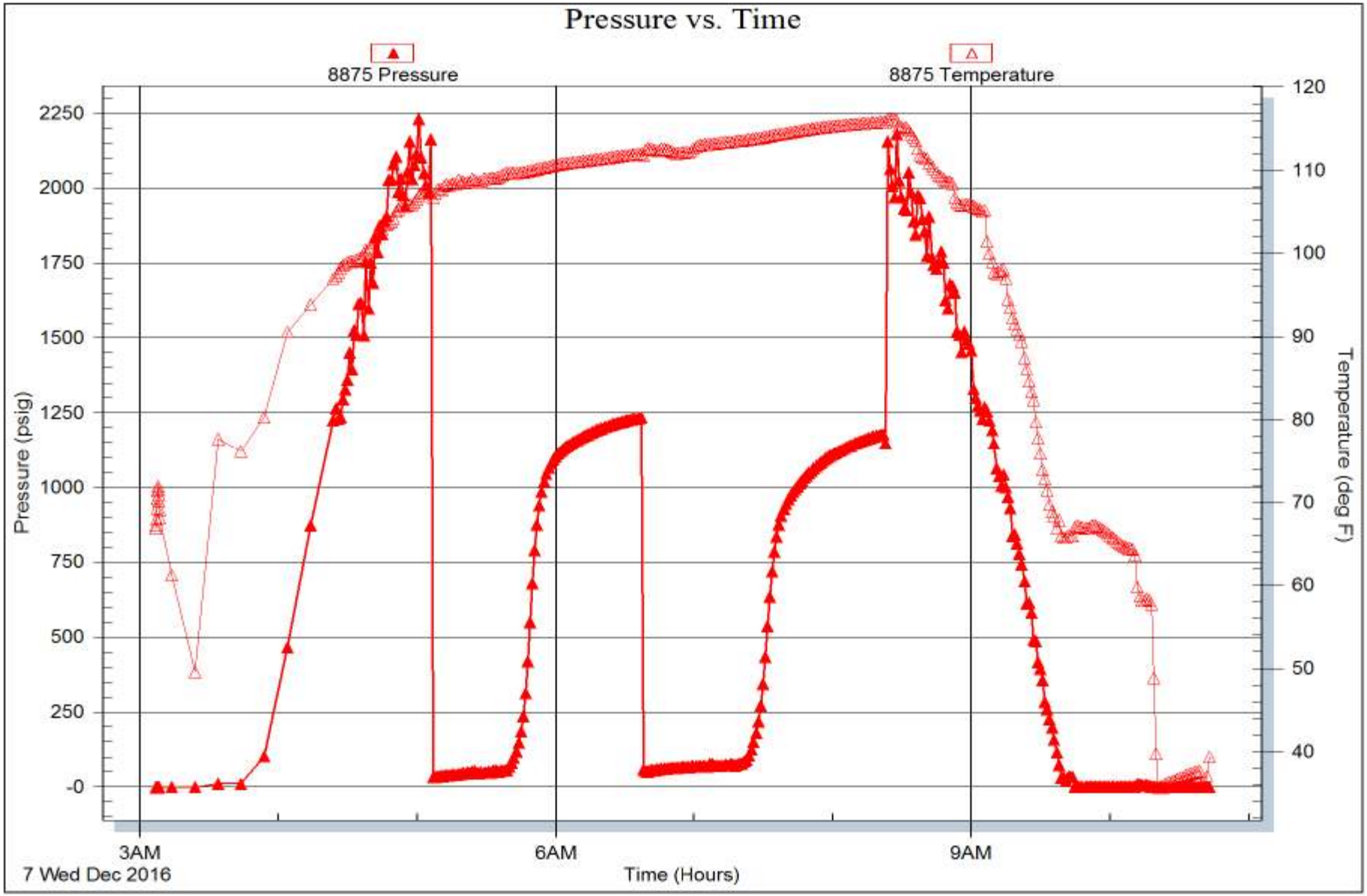
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8166 **Outside** Eternity Exploration LLC #1 Landenburger DST Test Number: 1



Trilobite Testing, Inc Ref. No: 65644 Printed: 2016.12.07 @ 10:55:13

Serial #: 8875 **Inside** Eternity Exploration LLC #1 Landenburger DST Test Number: 1



Trilobite Testing, Inc Ref. No: 65644 Printed: 2016.12.07 @ 10:55:13

DRILL STEM TEST REPORT

Eternity Exploration LLC

338 Spyglass Dr.
Coppell, Tx 75019

ATTN: Kim Shoemaker

13-9s-32w Thomas, Ks

#1 Landenburger

Job Ticket: 65645 **DST#: 2**

Test Start: 2016.12.07 @ 21:34:17

GENERAL INFORMATION:

Formation: **LKC K-L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:23:17
Time Test Ended: 07:29:17

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Interval: 4273.00 ft (KB) To 4333.00 ft (KB) (TVD)
Total Depth: 4333.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

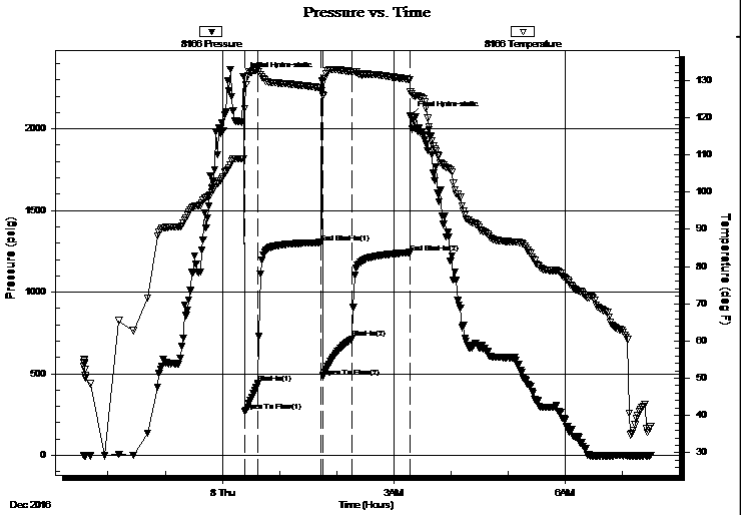
Reference Elevations: 3032.00 ft (KB)
3027.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**

Press@RunDepth: 715.88 psig @ 4274.00 ft (KB)
Start Date: 2016.12.07 End Date: 2016.12.08
Start Time: 21:34:22 End Time: 07:29:17

Capacity: 8000.00 psig
Last Calib.: 2016.12.08
Time On Btm: 2016.12.08 @ 00:21:47
Time Off Btm: 2016.12.08 @ 03:17:17

TEST COMMENT: IF: BOB in 1 min.
IS: Surface blow died in 5 min.
FF: BOB in 2 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2321.64	108.95	Initial Hydro-static
2	272.06	122.40	Open To Flow (1)
16	442.93	132.88	Shut-In(1)
81	1304.02	128.02	End Shut-In(1)
84	481.36	126.07	Open To Flow (2)
115	715.88	132.34	Shut-In(2)
175	1242.20	130.24	End Shut-In(2)
176	2079.29	127.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 95%w 5%m	2.65
756.00	ocmw 10%o 80%w 10%m	10.60
315.00	ocmw 5%o 65%w 30%m	4.42
267.00	ocmw 5%o 55%w 40%m	3.75
0.00	108 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Eternity Exploration LLC

338 Spyglass Dr.
Coppell, Tx 75019

ATTN: Kim Shoemaker

13-9s-32w Thomas, Ks

#1 Landenburger

Job Ticket: 65645 **DST#: 2**

Test Start: 2016.12.07 @ 21:34:17

GENERAL INFORMATION:

Formation: **LKC K-L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:23:17
Time Test Ended: 07:29:17

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Interval: 4273.00 ft (KB) To 4333.00 ft (KB) (TVD)
Total Depth: 4333.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

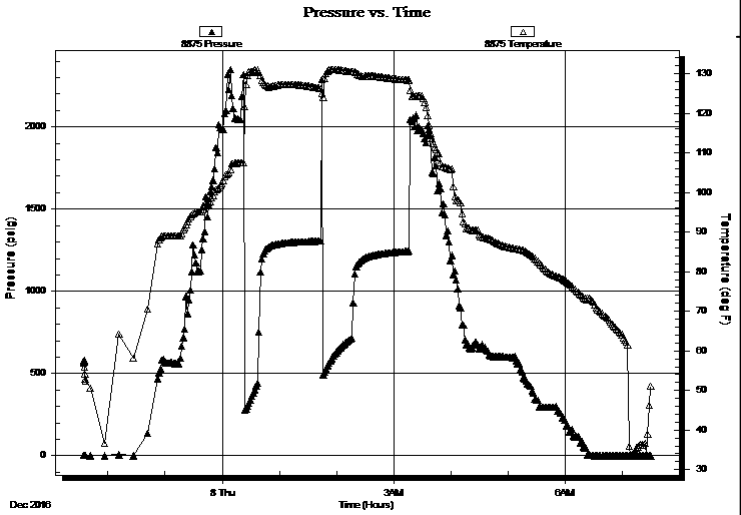
Reference Elevations: 3032.00 ft (KB)
3027.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8875 **Inside**

Press@RunDepth: psig @ 4274.00 ft (KB)
Start Date: 2016.12.07 End Date: 2016.12.08
Start Time: 21:34:34 End Time: 07:29:29

Capacity: 8000.00 psig
Last Calib.: 2016.12.08
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: BOB in 1 min.
IS: Surface blow died in 5 min.
FF: BOB in 2 min.
FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
189.00	mcw 95%w 5%m	2.65
756.00	ocmw 10%o 80%w 10%m	10.60
315.00	ocmw 5%o 65%w 30%m	4.42
267.00	ocmw 5%o 55%w 40%m	3.75
0.00	108 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Eternity Exploration LLC

338 Spyglass Dr.
Coppell, Tx 75019

ATTN: Kim Shoemaker

13-9s-32w Thomas, Ks

#1 Landenburger

Job Ticket: 65645 **DST#: 2**

Test Start: 2016.12.07 @ 21:34:17

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	34000 ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.78 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	mcw 95%w 5%m	2.651
756.00	ocmw 10%o 80%w 10%m	10.605
315.00	ocmw 5%o 65%w 30%m	4.419
267.00	ocmw 5%o 55%w 40%m	3.745
0.00	108 GIP	0.000

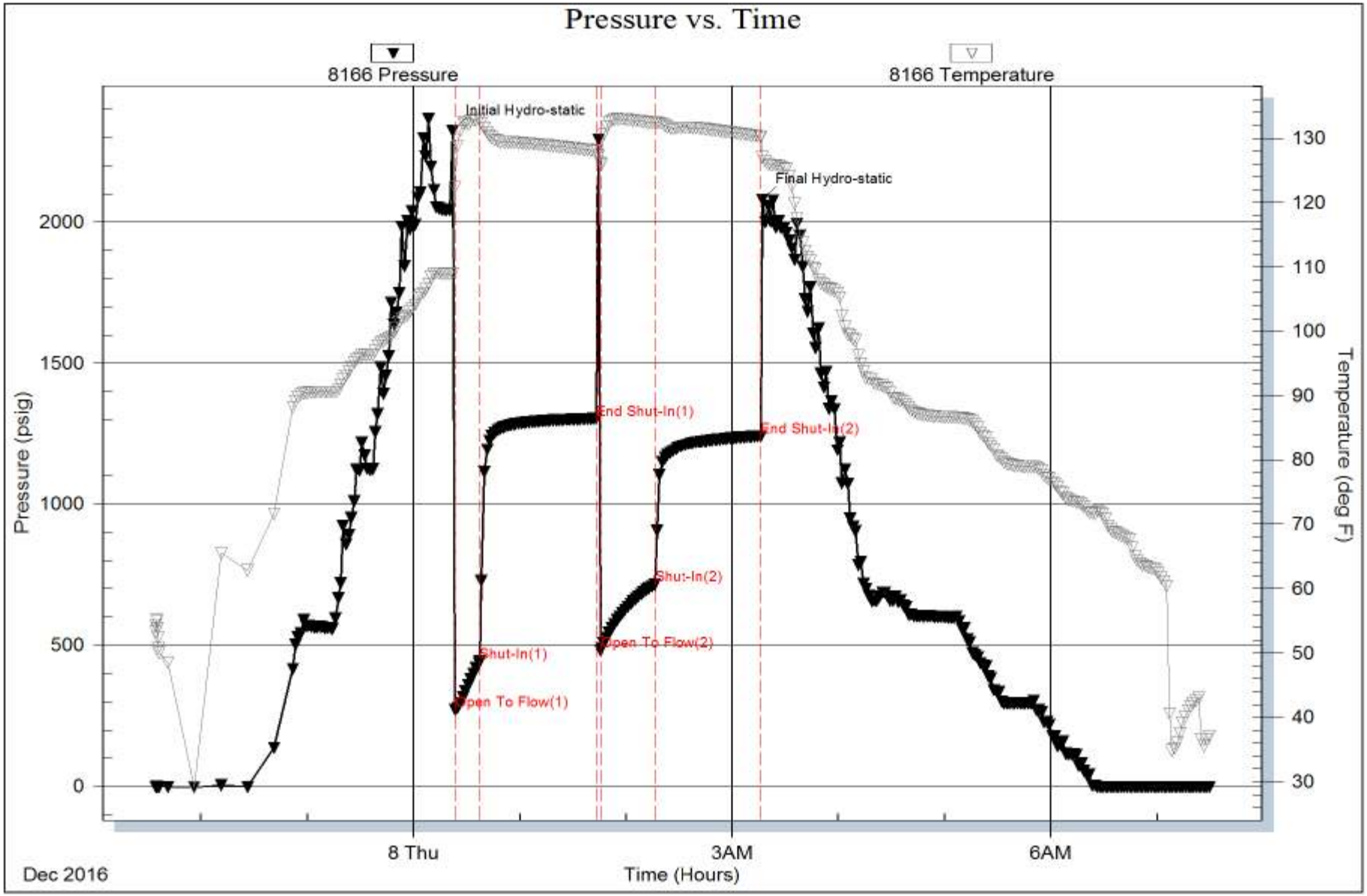
Total Length: 1527.00 ft Total Volume: 21.420 bbl

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

Laboratory Name: Laboratory Location:

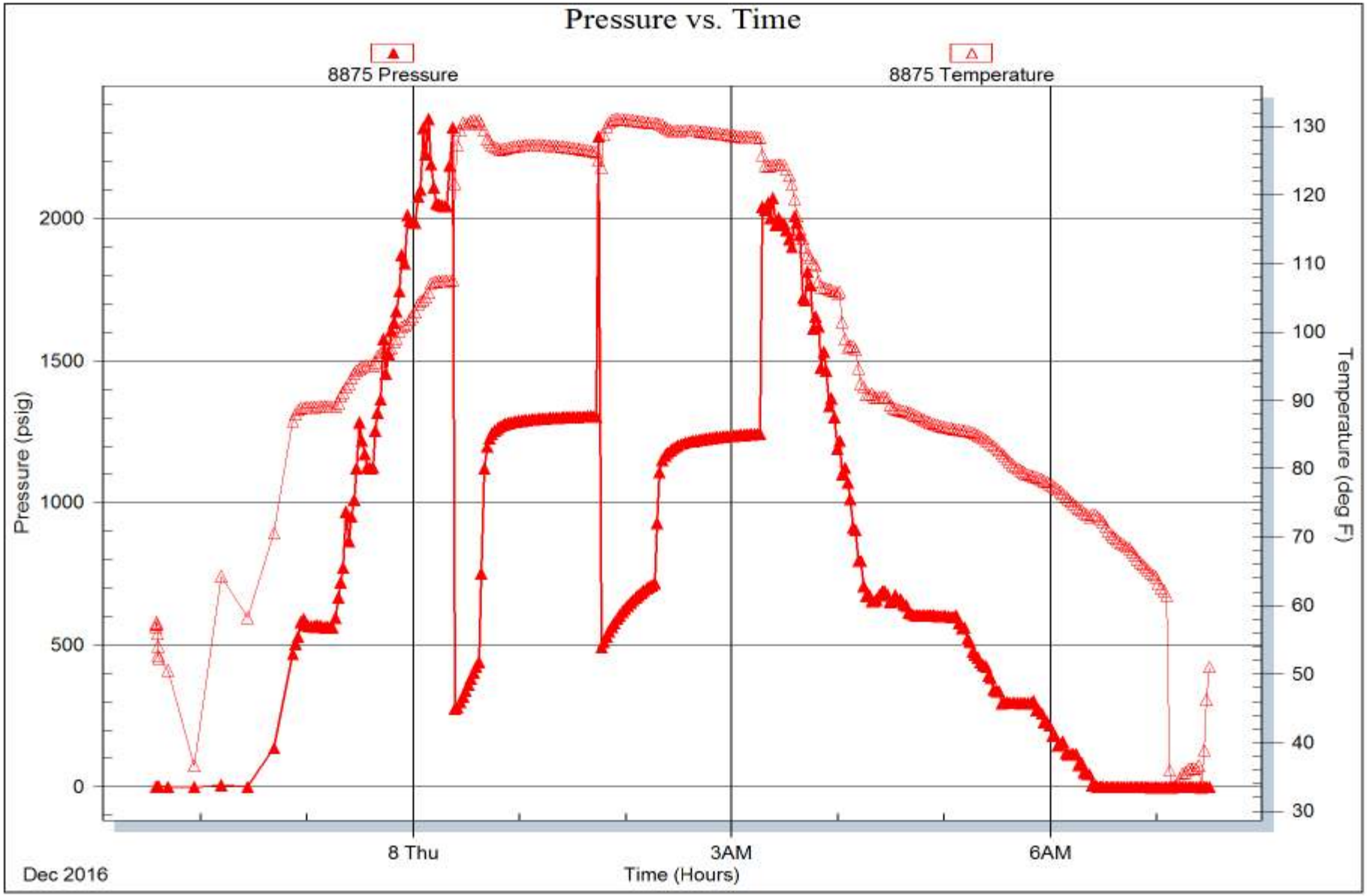
Recovery Comments: .50@28=34000

Serial #: 8166 **Outside** Eternity Exploration LLC #1 Landenburger DST Test Number: 2



Trilobite Testing, Inc Ref. No: 65645 Printed: 2016.12.08 @ 10:55:51

Serial #: 8875 **Inside** Eternity Exploration LLC #1 Landenburger DST Test Number: 2



Trilobite Testing, Inc Ref. No: 65645 Printed: 2016.12.08 @ 10:55:51

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Eternity Exploration LLC**

338 Spyglass Dr.
Coppell, Tx 75019

ATTN: Kim Shoemaker

#1 Landenburger

13-9s-32w Thomas, Ks

Start Date: 2016.12.08 @ 07:52:21

End Date: 2016.12.08 @ 16:01:21

Job Ticket #: 65646 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.12.08 @ 16:51:28

DRILL STEM TEST REPORT

Eternity Exploration LLC

338 Spyglass Dr.
Coppell, Tx 75019

ATTN: Kim Shoemaker

13-9s-32w Thomas, Ks

#1 Landenburger

Job Ticket: 65646 **DST#: 3**

Test Start: 2016.12.08 @ 07:52:21

GENERAL INFORMATION:

Formation: **LKC L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:30:21
Time Test Ended: 16:01:21

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Interval: 4307.00 ft (KB) To 4333.00 ft (KB) (TVD)
Total Depth: 4333.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

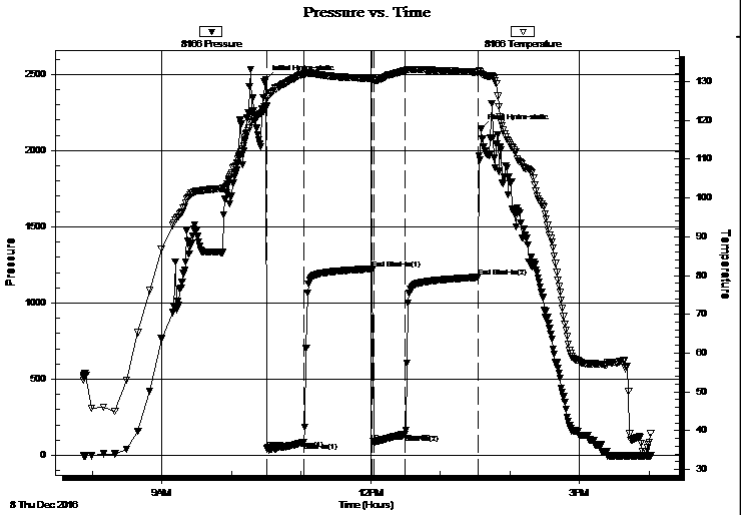
Reference Elevations: 3032.00 ft (KB)
3027.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166 **Outside**

Press@RunDepth: 140.96 psig @ 4308.00 ft (KB)
Start Date: 2016.12.08 End Date: 2016.12.08
Start Time: 07:52:26 End Time: 16:01:20

Capacity: 8000.00 psig
Last Calib.: 2016.12.08
Time On Btm: 2016.12.08 @ 10:29:21
Time Off Btm: 2016.12.08 @ 13:35:21

TEST COMMENT: IF: BOB in 3 min.
IS: Surface blow built to 3 died in 47 min.
FF: BOB in 6 min.
FS: BOB in 11 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2466.63	123.63	Initial Hydro-static
1	42.47	123.62	Open To Flow (1)
33	85.98	131.92	Shut-In(1)
92	1223.61	130.80	End Shut-In(1)
93	88.71	130.27	Open To Flow (2)
121	140.96	132.83	Shut-In(2)
183	1169.16	132.43	End Shut-In(2)
186	2141.49	132.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	gocw m 20%g 5%o 5%w 70%m	1.77
234.00	go 20%g 80%o	3.28
0.00	2223 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Eternity Exploration LLC

338 Spyglass Dr.
Coppell, Tx 75019

ATTN: Kim Shoemaker

13-9s-32w Thomas, Ks

#1 Landenburger

Job Ticket: 65646 **DST#: 3**

Test Start: 2016.12.08 @ 07:52:21

GENERAL INFORMATION:

Formation: **LKC L**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:30:21
Time Test Ended: 16:01:21

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

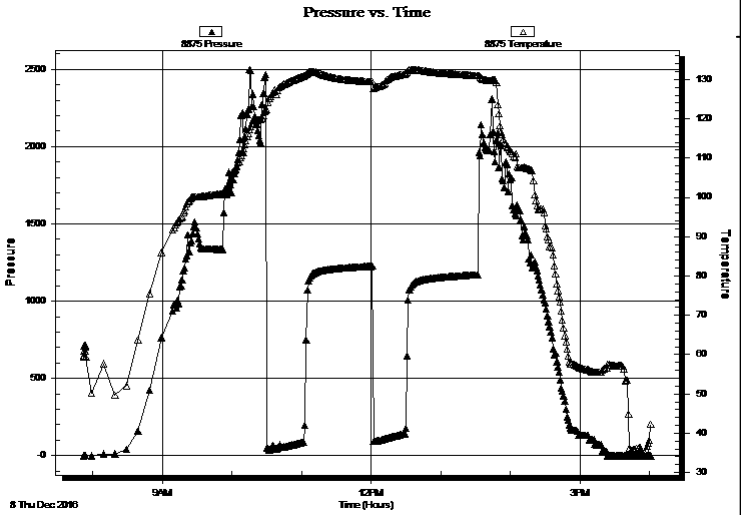
Interval: 4307.00 ft (KB) To 4333.00 ft (KB) (TVD)
Total Depth: 4333.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3032.00 ft (KB)
3027.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8875 **Inside**
Press@RunDepth: psig @ 4308.00 ft (KB)
Start Date: 2016.12.08 End Date: 2016.12.08
Start Time: 07:52:12 End Time: 16:01:06

Capacity: 8000.00 psig
Last Calib.: 2016.12.08
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: BOB in 3 min.
IS: Surface blow built to 3 died in 47 min.
FF: BOB in 6 min.
FS: BOB in 11 min.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
126.00	gocw m 20%g 5%o 5%w 70%m	1.77
234.00	go 20%g 80%o	3.28
0.00	2223 GIP	0.00

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eternity Exploration LLC

338 Spyglass Dr.
Coppell, Tx 75019

ATTN: Kim Shoemaker

13-9s-32w Thomas, Ks

#1 Landenburger

Job Ticket: 65646 **DST#: 3**

Test Start: 2016.12.08 @ 07:52:21

Tool Information

Drill Pipe:	Length:	4283.00 ft	Diameter:	3.80	inches	Volume:	60.08	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
						Total Volume:	60.08	bbl	

Drill Pipe Above KB:	3.00 ft
Depth to Top Packer:	4307.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	26.00 ft
Tool Length:	53.00 ft
Number of Packers:	2
Diameter:	6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		30000.00 lb
Weight to Pull Loose:		85000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	55000.00 lb
	Final	56000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Stubb	1.00			4281.00		
Shut In Tool	5.00			4286.00		
Hydraulic tool	5.00			4291.00		
Jars	5.00			4296.00		
Safety Joint	2.00			4298.00		
Packer	5.00			4303.00	27.00	Bottom Of Top Packer
Packer	4.00			4307.00		
Stubb	1.00			4308.00		
Recorder	0.00	8875	Inside	4308.00		
Recorder	0.00	8166	Outside	4308.00		
Perforations	20.00			4328.00		
Bullnose	5.00			4333.00	26.00	Bottom Packers & Anchor
Total Tool Length:	**53.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Eternity Exploration LLC

338 Spyglass Dr.
Coppell, Tx 75019

ATTN: Kim Shoemaker

13-9s-32w Thomas, Ks

#1 Landenburger

Job Ticket: 65646 **DST#: 3**

Test Start: 2016.12.08 @ 07:52:21

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	41 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.78 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

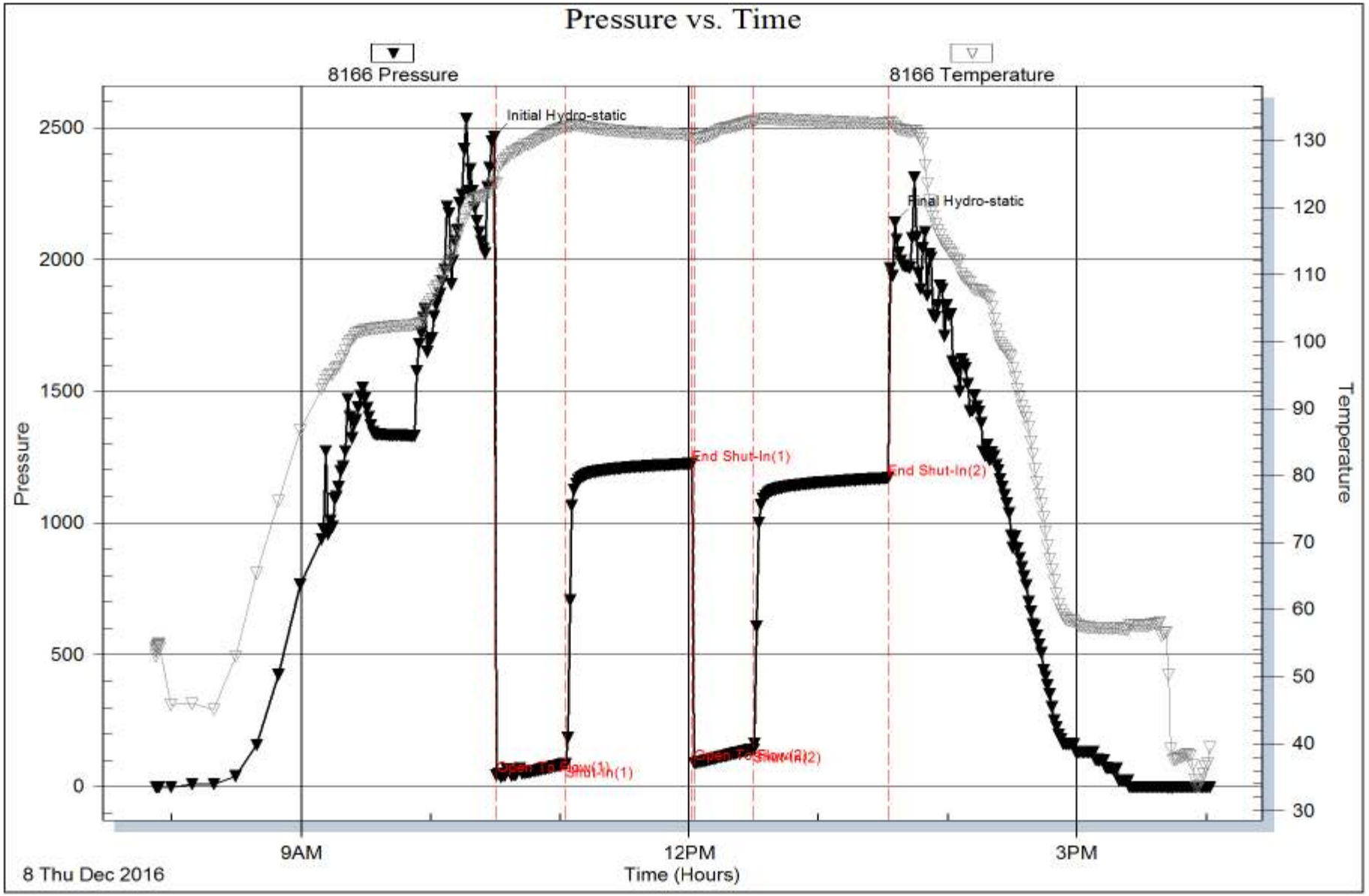
Recovery Table

Length ft	Description	Volume bbl
126.00	gocw m 20%g 5%o 5%w 70%m	1.767
234.00	go 20%g 80%o	3.282
0.00	2223 GIP	0.000

Total Length: 360.00 ft Total Volume: 5.049 bbl

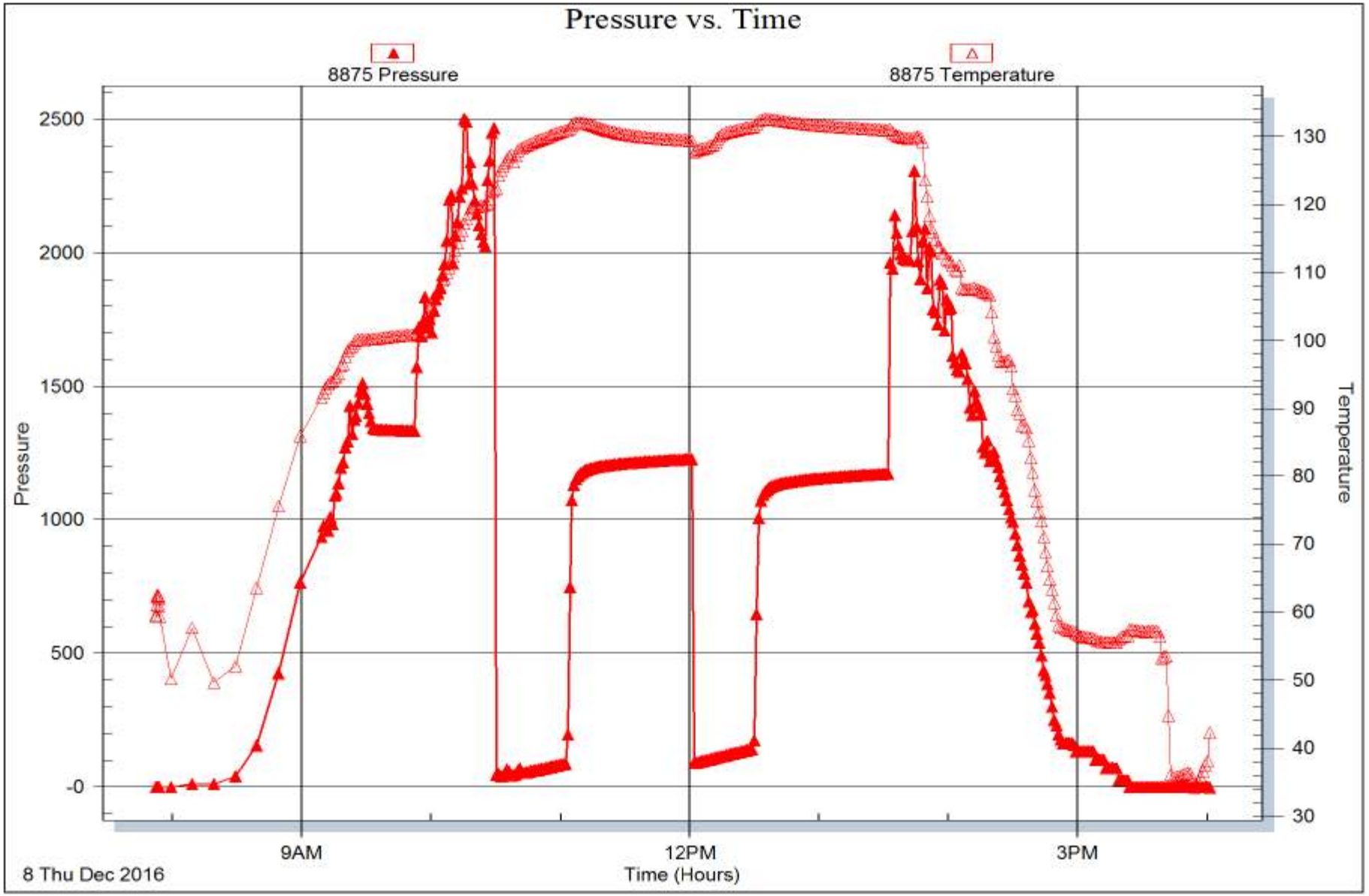
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 38@30=41

Serial #: 8166 **Outside** Eternity Exploration LLC #1 Landenburger DST Test Number: 3



Trilobite Testing, Inc Ref. No: 65646 Printed: 2016.12.08 @ 16:51:32

Serial #: 8875 **Inside** Eternity Exploration LLC #1 Landenburger DST Test Number: 3



Trilobite Testing, Inc Ref. No: 65646 Printed: 2016.12.08 @ 16:51:32

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA,KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY ETERNITY EXPLORATION. LLC

LEASE # 1 LADENBURGER

FIELD WILDCAT

LOCATION SE SE SE, 330' FSL & 330' FEL

SEC 13 TWSP 9s RGE 32w

COUNTY THOMAS STATE KANSAS

CONTRACTOR WHITE KNIGHT DRILLING. LLC

SPUD 12-1-16 COMP 12-10-16

RTD 4730 LTD 4731

MUD UP 3352 TYPE MUD CHEMICAL

ELEVATIONS

KB 3032

DF

GL 3027

Measurements Are All From 3032 KB

CASING

SURFACE 8 5/8" @ 247'

PRODUCTION 5 1/2" @

ELECTRICAL SURVEYS

DUAL IND., N-DENS, MICRO, SONIC

SAMPLES SAVED FROM 3800 TO 4730

DRILLING TIME KEPT FROM 3500 TO 4730

SAMPLES EXAMINED FROM 3800 TO 4730

GEOLOGICAL SUPERVISION FROM 3800 TO 4730

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2624 + 408	2626 + 406
B/ ANH.	2659 + 378	2659 + 373
HEEBNER	4021 - 989	4021 - 989
LANSING	4063 - 1031	4063 - 1031
STARK	4272 - 1240	4274 - 1242
HUSHPUCKNEY	4310 - 1278	4310 - 1278
B/KC	4336 - 1304	4338 - 1306
FORT SCOTT	4520 - 1488	4520 - 1488
CHEROKEE	4550 - 1518	4550 - 1518
MISSISSIPPI	4626 - 1594	4627 - 1595

13

API: 15-193-20980

REMARKS

12-1-16 SPUD
12-2 @ 249'
12-3 @ 1425'
12-4 @ 2715'
12-5 @ 3485'
12-6 @ 4142'
12-7 @ 4269'
12-8 @ 4333'
12-9 @ 4523'
12-10 @ 4730'

4000

Ls. wt Fossiferous Calcitic

Ls wt V Chalky.

HEEBNER 4021-989

Sh. Blk Carb.

Sh. Lt Gr Blue Gr Sdy.

TORONTO 4041
-1009

Ls wt Sh Foss-Foss. P:F. Vis ϕ
DK Br-Blk Hvy Stn. VSSFO No Flour No odor

Ls wt Vsh Foss Sh Δ

Sh Rd

LANSING 4063-1031

Ls. wt Sli fossiferous. Vsli Chalky.

Ls. Tn wt oolitic. Sli Calcitic

Sh. Rd.

4100

Ls. Tn wt Sli Foss Sli Δ Vsl. Calcitic

Δ Orange

Ls. wt Chalky. Vsli Foss

Ls. wt Lt Gy. V Fxln Suc. Sli Dolomitic

Ls. wt Chalky.

Sh. Rd.

Ls. wt Sli Fossil Sli Chalky.

Ls. wt. Vsli Foss Vsli Δ

VIS: GA
WT: 9.4
WL: 10.8
CHL: 4000

DST (1)

Ls Tn Gy. Vsli Δ

MUNCIE CREEK 4190-1158

Sh Blk Carb.

Ls Br Vsli Foss Sli Calcitic

4200

Sh Lt Gy. Gr.

Ls Tn Sli Foss F. Vug ϕ Tr Bri Stn Tr Fo No Flour No odor
(1) piece.

Ls. wt Tn Sh Δ

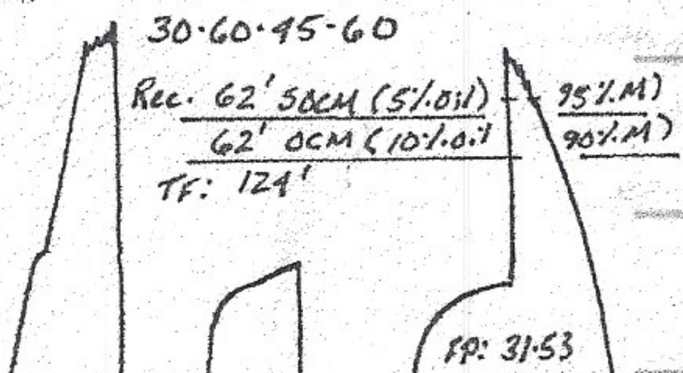
Sh Blk.

Ls Brn Gy. Vsli Foss.

* Bottom 62' appeared to me to 30-40% oil
KBS

DST (1) 4185-4269

1ST OPEN: Blow built to 4 1/2"
2nd OPEN: " " " 4"
30-60-45-60
Rec. 62' SOCM (5% oil) 95% M)
62' OCM (10% oil) 90% M)
TF: 124'



Sh. Lt Gy Ly.

LS Gy. Tr wt Sli Foss VSli Chty.
Pr Vis Ø Lt Br Scatt Stn. SSFO F. Flow
Ft odor

STARK 4274-1242
Sh Blk

Sh. Rd Gy.

LS Lt Gy. wt Sli ool. Sli Chty.
LS Gy. Sli Foss-Foss F-Vy Ø Br Sptd Stn
SSFO Dull Flow Ft odor

HUSHPUCKNEY 4310-1278
Sh Blk Carb.

Sh Lt Gy.

LS.

LS wt ool. Foss VSli Δ F. Vy Ø
Lt Br Sptd-Stn. Stn FSFO Tr GAS
F. Flow F. Odor

B/KC 4338-1306

Sh. Rd Gy.

LS Tr Gy. Foss

Sdy Sh. Lt Gy Br-Slty

MARMATON 4369-1337

LS. Tr wt VSli Foss Sli Δ

Sh Rd.

Sh. Rd Silty. some Shly LS.

LS. Gy. Foss.

Sh Rd.

LS. Tr Lt Gy. VSli Foss Sli Chty.

LS. Tr Sli Foss Sli Δ LS wt Chty.

Sh Dk Gy.

PAWNEE 4457-1425

LS. Tr Lt Gy. VSli Foss

LS. Lt Gy. VSli Foss

DST (2) 4273-4333

1st OPEN Bottom bucket 1 min. BB: Surf. a
2nd OPEN: " " 2 " BB: None

15-75-30-60

Rec. 108' GIP
267' SOCM W
315' SOCM W
756' OMCW
189' VSMW

(5% oil, 55% w, 40
(5% oil 65% w 3
(10% oil, 80% w
(95% w 5% M
TF: 1527'
RW: .56 @ 28
CHL: 34000

FP: 272-442
181-715#

SIP: 1304-1242#

Temp
B

DST (3) 4307-4333

1st OPEN: Bottom bucket 3 min. BB: 3"
2nd OPEN: " " 6 " BB: Bottom Bu
11 min

30-60-30-60

Rec. 2223' GIP
234' GO (80% oil 20% M)
126' OGWM (20% G
TF: 360'

5% oil 1.5%
20%
*

FP: 42-85
88-140#

SIP: 1223-
1169#

Te
132

* Bottom 126' Appeared to Me to be Muddy o
(40 50% oil)
KBS

4500

Sh Lt Gy.

Samples to TD were Near Terrible. 90% Sh mostly Rd. Gy.

LS. Tn wt. VSli Foss VSli Ch Gy.

Sh Blk Carb.

FORT SCOTT 4520 - 1488

LS. Tn Gy. Sli Foss Sli A

A Gy. Sli Foss

LS. Lt Gy. wl VSli Foss Sli A

CHEROKEE 4550 - 1518

Sh Blk Carb.

LS. wl. VSli Chk.

LS. Tn Gy. VSli Foss Sli A

Sh. Dk Gy.

JOHNSON 4588 - 1556

✓ LOG

LS Tn Gy. Sli Foss Pr Vis Ø Dk Br · Blk Sh
VSSFO - No Flour No odor

4600

Sdy LS Lt Blue

Sdy Sh Gy Gn Fn · Md Gn Sub Rd

VIS: 80

WT: 9.3

WL: 8.0

CHL: 5000

Sh Yellow Gn Weathd A

MISSISSIPPI 4627 - 1595

Dol. Tn V Fn xln Suc.

LS Tn wt V Fn xln Suc.

Dol. Gy. Lt Gy. V Fn xln Sli Foss w/ Dk Gy Foss.

Sh Yellow Gn.

LS. Tn Foss Sli A

Dol. Gy. V Fn xln Suc. w/ Dk Gy Ind.

LS. Tn wt ool. Foss Sli A Glassy.

4700

LS. Tn Gy. Sli Foss Calcitic

LS. Gy. Foss Calcitic

RTD 4730 - 1488