

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

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 #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Eternity Exploration, LLC
Well Name	A7 FAMILY FARMS 1
Doc ID	1357108

Tops

Name	Top	Datum
Anhydrite	2564	+397
Topeka	3740	-779
Heebner	3962	-1001
Lansing	4006	-1045
Stark	4212	-1251
BKC	4274	-1313
Pawnee	4392	-1431
Cherokee	4488	-1527
Cherokee Johnson	4525	-1564
Mississippi	4561	1600
RTD	4680	-1719
LTD	4680	-1719

REMIT TO
RR 1 BOX 90 D
HOXIE, KS 67740

SCHIPPERS OIL FIELD SERVICE L.L.C.

Nº 604

DATE <u>5/24</u> SEC. <u>7</u>	RANGE/TWP. <u>9-31</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>A 7 Family Farm</u>			WELL# <u>1</u>		
			COUNTY <u>7H</u>	STATE <u>KS</u>	

CONTRACTOR <u>STP</u>	OWNER <u>Etoanty</u>				
TYPE OF JOB <u>Surface</u>					
HOLE SIZE <u>12 1/4</u>	T.D.	CEMENT			
CASING SIZE <u>8 5/8</u>	DEPTH <u>21250</u>	AMONT ORDERED	<u>165</u>	<u>3% CC</u>	<u>27000</u>
TUBING SIZE	DEPTH				
DRILL PIPE	DEPTH				
TOOL	DEPTH				
PRES. MAX	MINIMUM	COMMON	<u>165</u>	@	
DISPLACEMENT <u>12661</u>	SHOE JOINT	POZMIX		@	
CEMENT LEFT IN CSG.		GEL	<u>4</u>	@	
PERFS		CHLORIDE	<u>9</u>	@	
		ASC		@	
EQUIPMENT				@	
				@	
PUMP TRUCK				@	
# <u>Scott</u>				@	
BULK TRUCK				@	
#				@	
BULK TRUCK				@	
#				@	
		HANDLING	<u>178</u>	@ <u>2 1/2</u>	
		MILEAGE	<u>35</u>	@ <u>14.24</u>	<u>498.10</u>
				TOTAL	

REMARKS	SERVICE <u>Surface</u>		
<u>Plug Down @</u>	DEPT OF JOB	@	
	PUMP TRUCK CHARGE	@	
	EXTRA FOOTAGE	@	
<u>4:30 P/A</u>	MILEAGE	@ <u>35</u>	
	MANIFOLD	@	
<u>Circulated Cement</u>		@	
		TOTAL	

CHARGES TO: <u>Etoanty</u>	
STREET	STATE
CITY	ZIP

To: Schippers Oil Field Services L.L.C.

You are hereby requested to rent cementing equipment and furnish staff 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 "TERMS AND CONDITIONS" listed

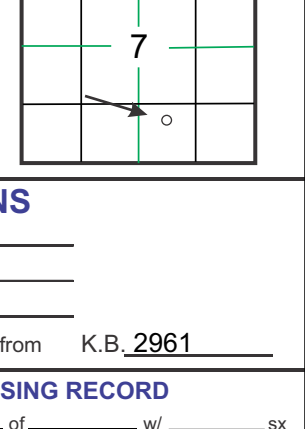
PLUG & FLOAT EQUIPMENT	
	@
	@
	@
	@
	@

GEOLOGICAL REPORT

Larry A. Nicholson

NAD 83
39.286885
-100.8215689

COMPANY **Eternity Exploration, LLC**
 API # **15-193-20995** FIELD WELL # **_____**
 LEASE **A7 Family Farms** WELL # **#1**
 LOCATION **N2 SW SE**
 SURVEY **990' FSL 1980' FEL**
 SECTION **7** TWP **9S** RGE **31W**
 COUNTY **Thomas** STATE **Kansas**



CONTRACTOR **STP** _____ Rig # **_____**
 SPUD **05-24-17 11:00 pm** COIMP. _____
 RTD **4780 05-31-17 5:15 pm** LTD **4780**
 MUD UP AT **3330**
 MUD TYPE **Chemical, Kansas Drilling Technologies**

CASING RECORD
 Conductor _____ of _____ of _____ in _____
 Surface **220** of **8.9** w/ **165** in _____
 Production _____ of _____ of _____ in _____

SAMPLES SAVED _____
 DRILLING TIME _____
 SAMPLES EXAMINED _____
 GEOLOGICAL SUPERVISION _____
 WELLSITE GEOLOGIST **LARRY A. NICHOLSON**

ELECTRICAL SURVEYS **ELI: Dual, NeuDen**

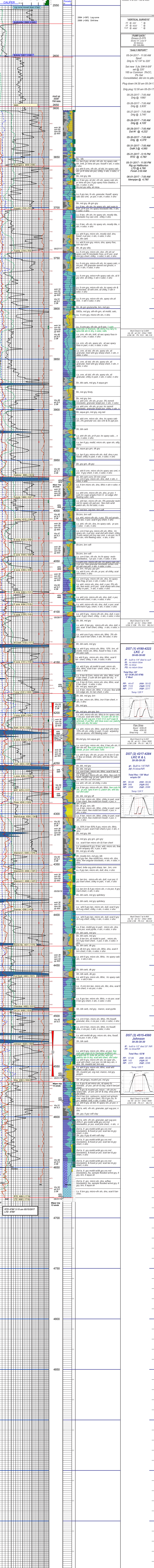
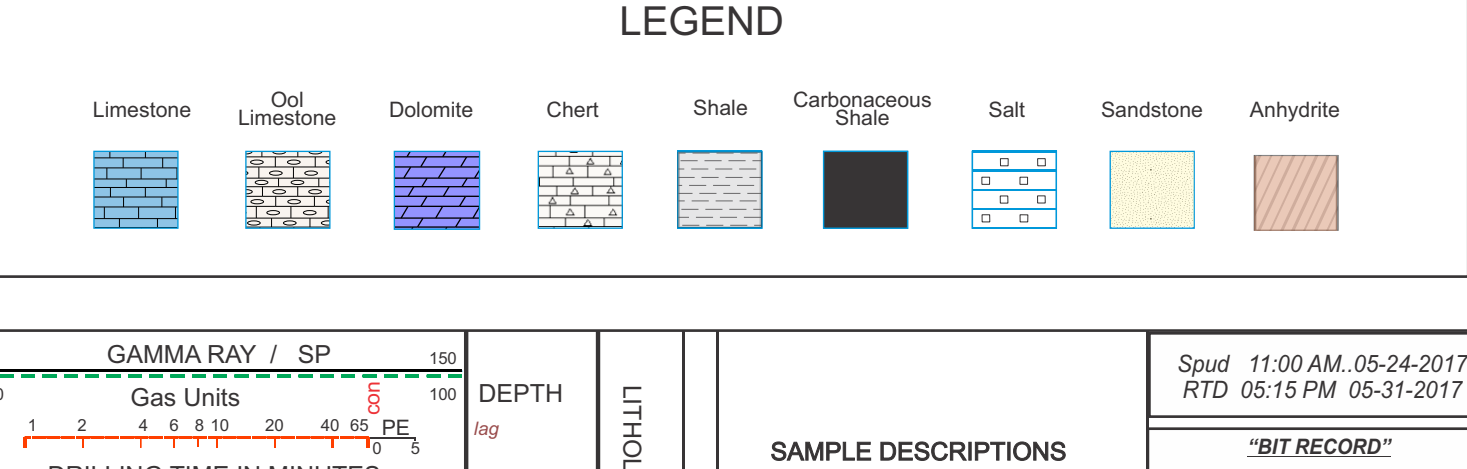
FORMATION	SAMPLE TOIRS	SURSEA DATUM	ELEC LOG TOPS	SURSEA DATUM	REFERENCE WELL
Anyrite	2568	+393	2564	+397	2624 +408 -11
Bu/Am	2601	+360	2597	+354	2634 +378 -14
Hogbaker	3744	-783	3740	-779	3732 -780 -19
Lansinger	3966	-1005	3962	-1001	4020 -988 -13
Lansling	4010	-1049	4006	-1045	4062 -1030 -15
Stark	4278	-1255	4272	-1251	4272 -1240 -11
Cherokee	4278	-1317	4274	-1313	4336 -1304 -9
Pawnee	4396	-1435	4392	-1431	4458 -1426 -5
Cherokee	4492	-1531	4488	-1527	4550 -1518 -9
Johnson	4529	-1568	4525	-1564	4594 -1562 -2
Miss	4565	-1604	4561	-1600	4634 -1602 +2
RTD	4680	-1719	4680	-1719	4730 -1698
LTD	4680	-1719	4680	-1719	4731 -1699

REFERENCE WELLS
 A: Eternity Expl. Landenberg #1 Sec 13-T9S-R32W 330' FSL 330' FEL KB 3032
 B: _____

REMARKS & RECOMMENDATIONS:
 Based on weak sample shows and dst results the well was P&A
 Logging tool was sticking on repeat & main run. 2nd run was not made for microlog.
 Note Drill Time is 4 feet lower than Electric logs.
 Log curves have been moved down 4 feet.

LAN 762, Modified 5/05, 11/11, 4/12 Hanover, KS 66845 1inch = 25.4mm 8.5 x 9.5 216 mm x 2460 mm

LEGEND



Spud 11:00 AM, 05-24-2017
 RTD 05:15 PM 05-31-2017

"BIT RECORD"
 Surface Bit, RS, 12 1/4" R, ser BR549, surf, 220'
 Bit No. 1 Smith 7-78", F18, ser R20885 in at 220' - out at 4680'

"VERTICAL SURVEYS"
 75' @ 220' = 9
 25' @ 4222' = 0
 112' @ 4680' = 0

"PUMP DATA"
 Emeco D-375
 Stroke 14" Liner 6"
 60 Stk/Min
 350 GAL/Min

"DAILY REPORT"
 05-24-2017 - 11:00 AM
 Spud
 Drig to 12 1/4" to 220'
 Set new 5 1/2" 20# 8-5/8" set @ 220'
 165 cc Common 3%CC, 2% Gel
 Consolidated, did circ to pits
 Drig plug 12:30 am 05-25-17

05-25-2017 - 7:00 AM
 Drig @ 1060'
 05-26-2017 - 7:00 AM
 Drig @ 2,835'
 05-27-2017 - 7:00 AM
 Drig @ 3,740'
 05-28-2017 - 7:00 AM
 Drig @ 4,105'
 05-29-2017 - 7:00 AM
 Drig @ 4,222'
 05-30-2017 - 7:00 AM
 Drig @ 4,376'
 05-31-2017 - 5:15 PM
 RTD @ 4,780'

05-31-2017 - 11:00 PM
 Rig up Halliburton
 LTD @ 4,780'
 Finish 2:00 AM
 06-01-2017 - 7:00 AM
 Idw/npipe @ 4,780'

Mud Check 4 at 3,820'
 vis: 6 wt @ 9.2 Color: 3000
 LCM: 2# Ph: 10.9 WL: 6.8

Mud Check 5 at 4,153'
 vis: 6 wt @ 9.2 Color: 3000
 LCM: 2.5# Ph: 10.0 WL: 6.4

DST (1) 4190-4222 LKC J 30-60-30-60
 IF: Built to 1/4" died to surf
 IS: no blow/NR
 FF: no blow
 FS: no blow
 Total Rec: 65' 62' OCM (30 97M) 3' Mud
 FP: 44-47 FFP: 50-52
 SIP: 1123 FSP: 1019
 HP: 2111 FHP: 2217
 Temp 128 F

DST (2) 4217-4284 LKC K & L 30-30-30-30
 IF: Built to 1/4" NR
 FF: N blow/NR
 FS: N blow/NR
 Total Rec: 130' Mud w/eps Oil
 FP: 96-98 FFP: 99-99
 SIP: 949 FSP: 80-82
 HP: 2098 FHP: 2098
 Temp 128 F

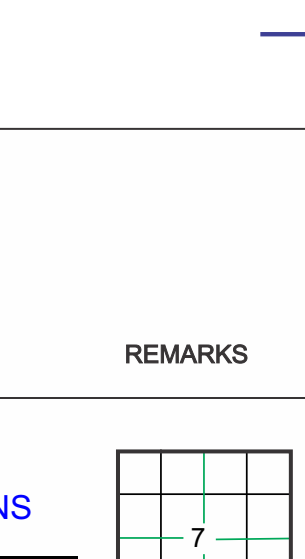
Mud Check 6 at 4,222'
 vis: 5 wt @ 9.2 Color: 3000
 LCM: 2.5# Ph: 9.1 WL: 7.2

DST (3) 4515-4560 Johnson 30-30-30-30
 IF: Built to 1/2" died 20' NR
 FF: no blow/NR
 FS: no blow/NR
 Total Rec: 62M
 FP: 57-66 FFP: 66-66
 SIP: 143 FSP: 99-99
 HP: 2311 FHP: 2296
 Temp 129 F

Mud Check 8 at 4,587'
 vis: 5 wt @ 9.4 Color: 3000
 LCM: 3.0# Ph: 9.1 WL: 7.2

COMPANY **Eternity Exploration, LLC**
 LEASE **A7 Family Farms #1 N2 SW SE**
 LOCATION **990' FSL 1980' FEL** SEC **7** TWP **9S** RGE **31W**
 COUNTY **Thomas** STATE **Ks**

ELEVATIONS
 K.B. **2961**
 D.F. _____
 G.L. **2954**
 All measurements from K.B. 2961





DRILL STEM TEST REPORT

Prepared For: **Eternity Exploration LLC**

338 Spyglass Dr.
Coppell Dr. TX 75019

ATTN: Larry Nicholson

A7 Family Farm #1

7-9s-31w Thomas,KS

Start Date: 2017.05.28 @ 19:42:15

End Date: 2017.05.29 @ 03:26:00

Job Ticket #: 63730 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.06.01 @ 08:58:00



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eternity Exploration LLC

7-9s-31w Thomas,KS

338 Spyglass Dr.
Coppell Dr. TX 75019

A7 Family Farm #1

ATTN: Larry Nicholson

Job Ticket: 63730

DST#: 1

Test Start: 2017.05.28 @ 19:42:15

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:17:00

Time Test Ended: 03:26:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

Interval: 4190.00 ft (KB) To 4222.00 ft (KB) (TVD)

Reference Elevations: 2961.00 ft (KB)

Total Depth: 4222.00 ft (KB) (TVD)

2954.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6749 Outside

Press@RunDepth: 52.25 psig @ 4191.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.05.28

End Date:

2017.05.29

Last Calib.:

2017.05.29

Start Time: 19:42:15

End Time:

03:26:00

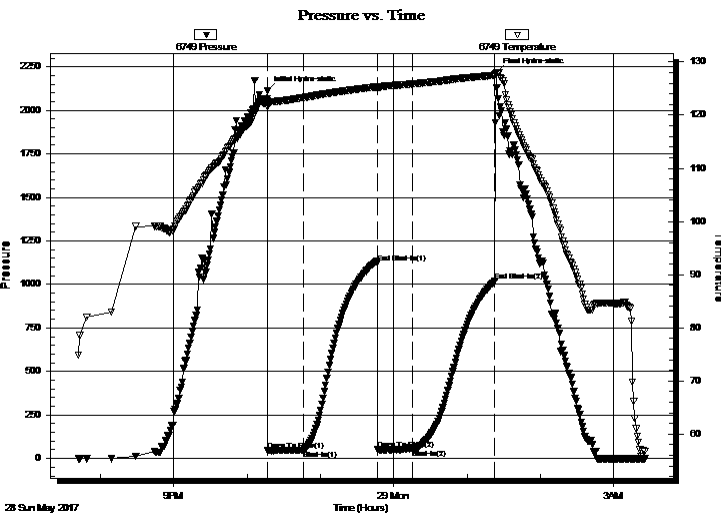
Time On Btm:

2017.05.28 @ 22:16:45

Time Off Btm:

2017.05.29 @ 01:24:00

TEST COMMENT: IF: Built to 1/4" blow and died to weak surface blow
IS: No return blow
FF: No blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2111.06	122.76	Initial Hydro-static
1	44.84	121.63	Open To Flow (1)
30	47.57	123.32	Shut-In(1)
90	1123.92	125.33	End Shut-In(1)
91	50.88	125.04	Open To Flow (2)
119	52.25	125.86	Shut-In(2)
186	1019.63	127.50	End Shut-In(2)
188	2217.67	127.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100%m	0.01
62.00	ocm 3%o 97%m	0.30

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eternity Exploration LLC
 338 Spyglass Dr.
 Coppell Dr. TX 75019
 ATTN: Larry Nicholson

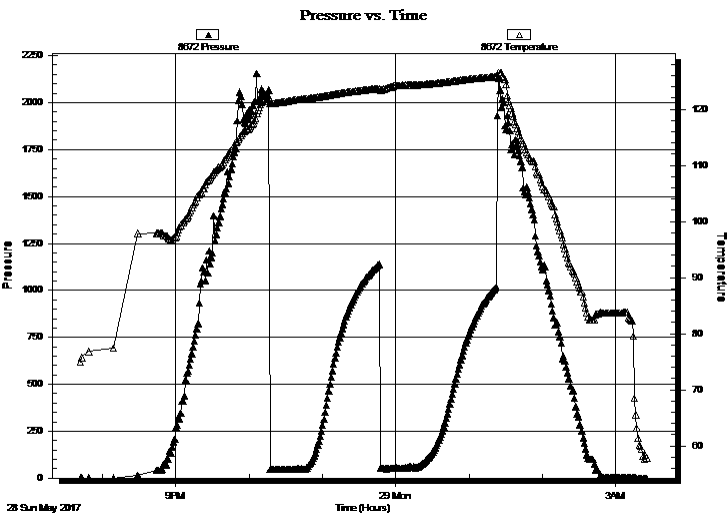
7-9s-31w Thomas,KS
A7 Family Farm #1
 Job Ticket: 63730 **DST#: 1**
 Test Start: 2017.05.28 @ 19:42:15

GENERAL INFORMATION:

Formation: **LKC J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:17:00
 Time Test Ended: 03:26:00
 Interval: **4190.00 ft (KB) To 4222.00 ft (KB) (TVD)**
 Total Depth: 4222.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Mike Roberts
 Unit No: 81
 Reference Elevations: 2961.00 ft (KB)
 2954.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8672 Inside
 Press@RunDepth: psig @ 4191.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.05.28 End Date: 2017.05.29 Last Calib.: 2017.05.29
 Start Time: 19:42:15 End Time: 03:26:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Built to 1/4" blow and died to weak surface blow
 IS: No return blow
 FF: No blow
 FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100%m	0.01
62.00	ocm 3%o 97%m	0.30

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eternity Exploration LLC

7-9s-31w Thomas,KS

338 Spyglass Dr.
Coppell Dr. TX 75019

A7 Family Farm #1

Job Ticket: 63730

DST#: 1

ATTN: Larry Nicholson

Test Start: 2017.05.28 @ 19:42:15

Tool Information

Drill Pipe:	Length: 4071.00 ft	Diameter: 3.80 inches	Volume: 57.11 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4190.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4167.00	
Shut In Tool	5.00			4172.00	
Hydraulic tool	5.00			4177.00	
Jars	5.00			4182.00	
Safety Joint	3.00			4185.00	
Packer	5.00			4190.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4190.00	
Stubb	1.00			4191.00	
Recorder	0.00	8672	Inside	4191.00	
Recorder	0.00	6749	Outside	4191.00	
Perforations	26.00			4217.00	
Bullnose	5.00			4222.00	32.00 Anchor Tool

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eternity Exploration LLC

7-9s-31w Thomas,KS

338 Spyglass Dr.
Coppell Dr. TX 75019

A7 Family Farm #1

Job Ticket: 63730

DST#: 1

ATTN: Larry Nicholson

Test Start: 2017.05.28 @ 19:42:15

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.37 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
3.00	mud 100%m	0.015
62.00	ocm 3%o 97%m	0.305

Total Length: 65.00 ft

Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

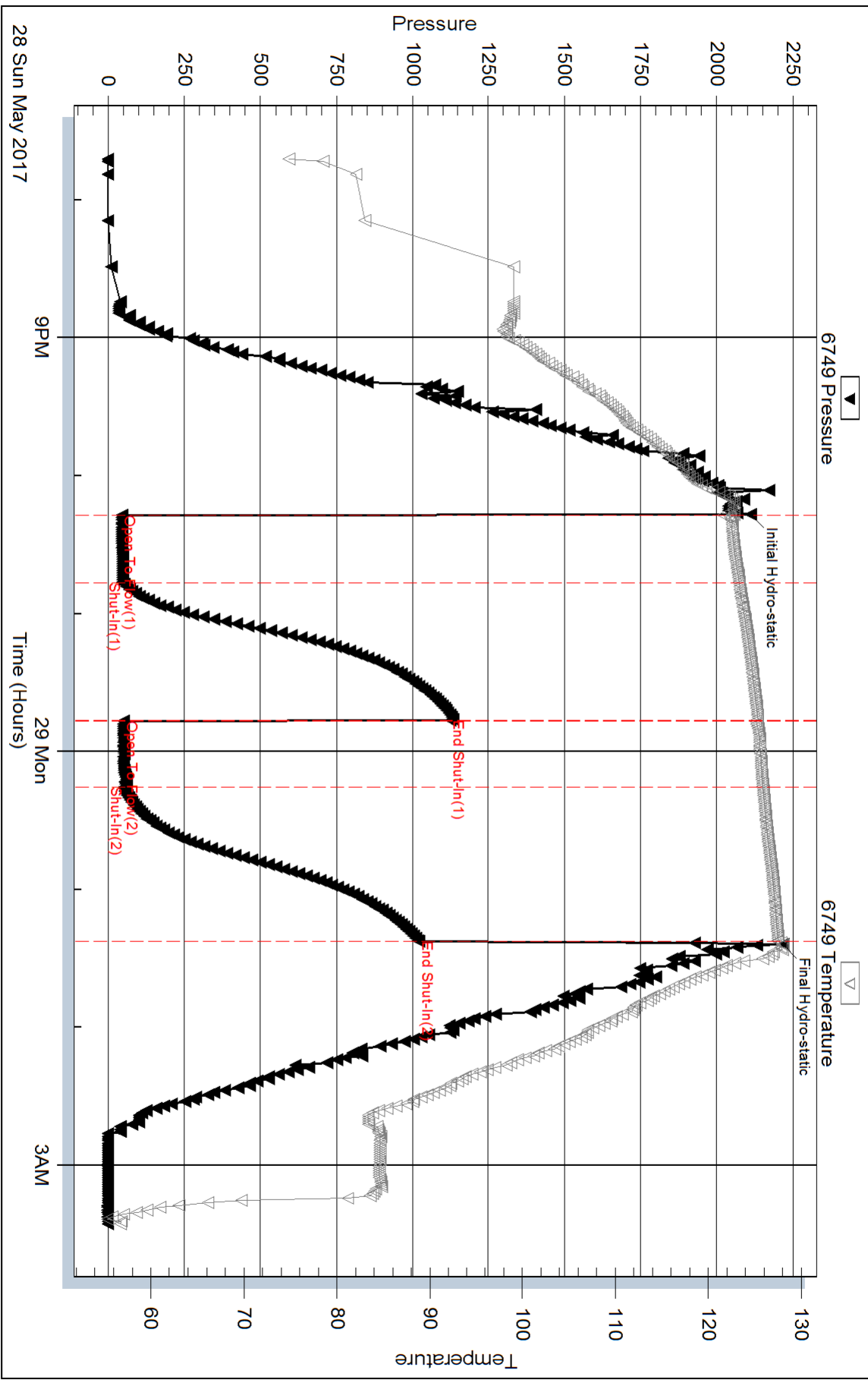
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



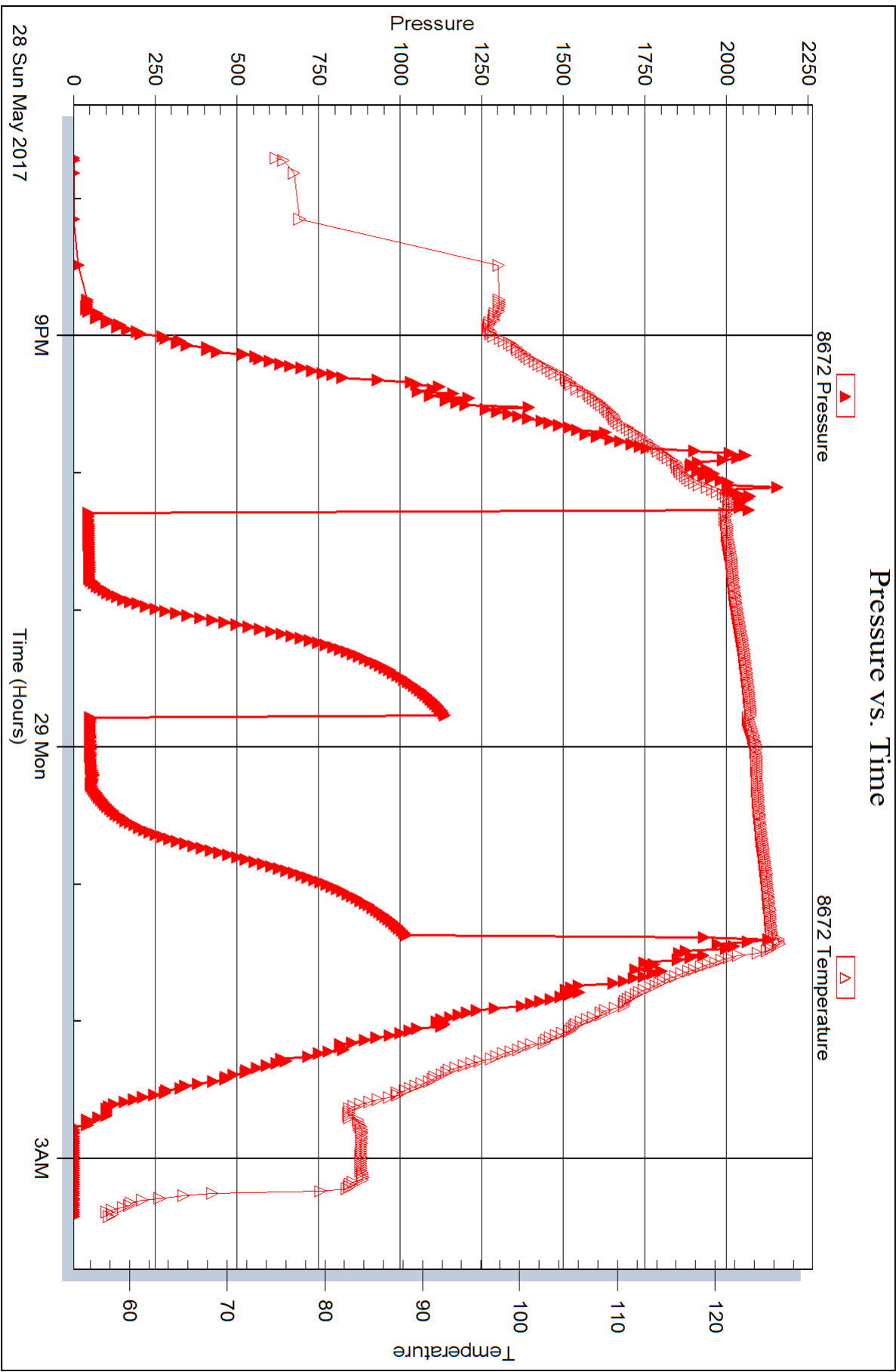
Serial #: 8672

Inside

Eternity Exploration LLC

A7 Family Farm #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Eternity Exploration LLC**

338 Spyglass Dr.
Coppell Dr. TX 75019

ATTN: Larry Nicholson

A7 Family Farm #1

7-9s-31w Thomas,KS

Start Date: 2017.05.29 @ 16:22:15

End Date: 2017.05.29 @ 22:56:15

Job Ticket #: 63731 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.06.01 @ 08:57:26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eternity Exploration LLC

7-9s-31w Thomas,KS

338 Spyglass Dr.
Coppell Dr. TX 75019

A7 Family Farm #1

ATTN: Larry Nicholson

Job Ticket: 63731

DST#: 2

Test Start: 2017.05.29 @ 16:22:15

GENERAL INFORMATION:

Formation: **LKC K-L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:36:45

Time Test Ended: 22:56:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4217.00 ft (KB) To 4284.00 ft (KB) (TVD)

Reference Elevations: 2961.00 ft (KB)

Total Depth: 4284.00 ft (KB) (TVD)

2954.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6749 Outside

Press@RunDepth: 99.55 psig @ 4279.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.05.29 End Date: 2017.05.29

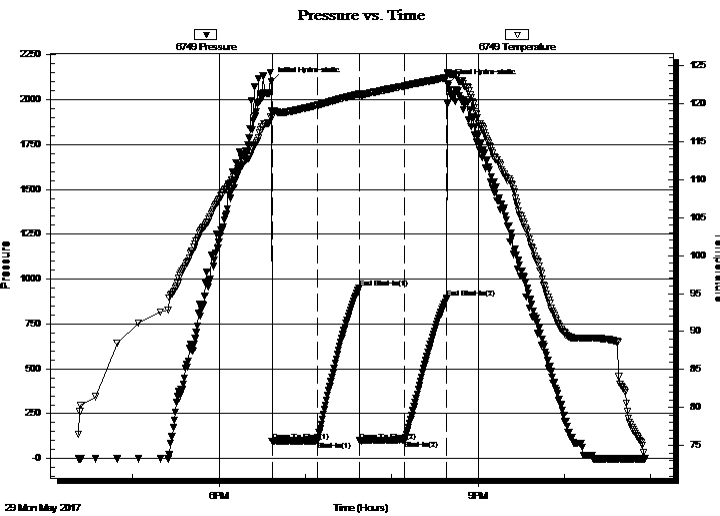
Last Calib.: 2017.05.29

Start Time: 16:22:15 End Time: 22:56:15

Time On Btm: 2017.05.29 @ 18:36:30

Time Off Btm: 2017.05.29 @ 20:39:15

TEST COMMENT: IF: Built to 1/8" blow
IS: No return blow
FF: No blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2098.96	119.00	Initial Hydro-static
1	96.56	118.30	Open To Flow (1)
32	98.94	119.75	Shut-In(1)
61	949.91	121.23	End Shut-In(1)
62	99.26	121.02	Open To Flow (2)
93	99.55	122.30	Shut-In(2)
122	892.38	123.41	End Shut-In(2)
123	2088.99	124.09	Final Hydro-static

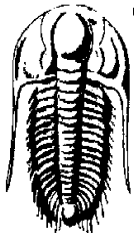
Recovery

Length (ft)	Description	Volume (bbl)
130.00	mud with oil spots	0.70

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eternity Exploration LLC

338 Spyglass Dr.
Coppell Dr. TX 75019

ATTN: Larry Nicholson

7-9s-31w Thomas,KS

A7 Family Farm #1

Job Ticket: 63731

DST#: 2

Test Start: 2017.05.29 @ 16:22:15

GENERAL INFORMATION:

Formation: LKC K-L

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:36:45

Time Test Ended: 22:56:15

Interval: 4217.00 ft (KB) To 4284.00 ft (KB) (TVD)

Total Depth: 4284.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Reference Elevations: 2961.00 ft (KB)

2954.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8672 Inside

Press@RunDepth: psig @ 4279.00 ft (KB)

Start Date: 2017.05.29

End Date: 2017.05.29

Capacity: 8000.00 psig

Last Calib.: 2017.05.29

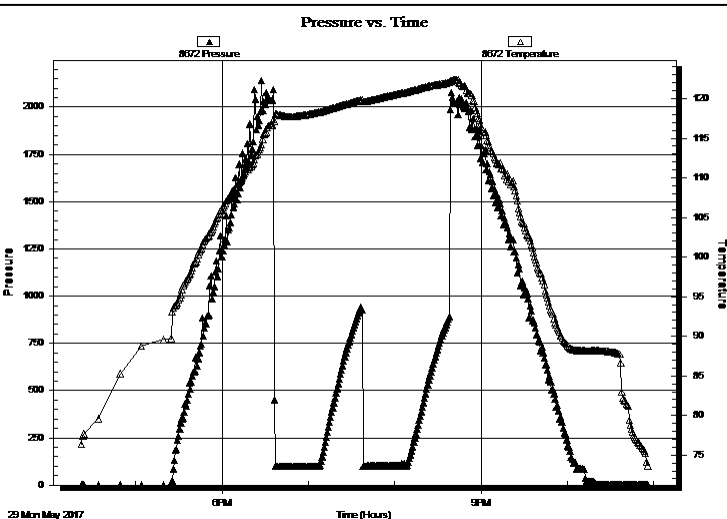
Start Time: 16:22:15

End Time: 22:56:00

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Built to 1/8" blow
IS: No return blow
FF: No blow
FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
130.00	mud w ith oil spots	0.70

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eternity Exploration LLC

7-9s-31w Thomas,KS

338 Spyglass Dr.
Coppell Dr. TX 75019

A7 Family Farm #1

Job Ticket: 63731

DST#: 2

ATTN: Larry Nicholson

Test Start: 2017.05.29 @ 16:22:15

Tool Information

Drill Pipe:	Length: 4071.00 ft	Diameter: 3.80 inches	Volume: 57.11 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 57.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4217.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4194.00	
Shut In Tool	5.00			4199.00	
Hydraulic tool	5.00			4204.00	
Jars	5.00			4209.00	
Safety Joint	3.00			4212.00	
Packer	5.00			4217.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4217.00	
Stubb	1.00			4218.00	
Perforations	2.00			4220.00	
Change Over Sub	1.00			4221.00	
Drill Pipe	32.00			4253.00	
Change Over Sub	1.00			4254.00	
Perforations	25.00			4279.00	
Recorder	0.00	8672	Inside	4279.00	
Recorder	0.00	6749	Outside	4279.00	
Bullnose	5.00			4284.00	67.00 Anchor Tool
Total Tool Length:	91.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eternity Exploration LLC

7-9s-31w Thomas,KS

338 Spyglass Dr.
Coppell Dr. TX 75019

A7 Family Farm #1

Job Ticket: 63731

DST#: 2

ATTN: Larry Nicholson

Test Start: 2017.05.29 @ 16:22:15

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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
130.00	mud w ith oil spots	0.703

Total Length: 130.00 ft

Total Volume: 0.703 bbl

Num Fluid Samples: 0

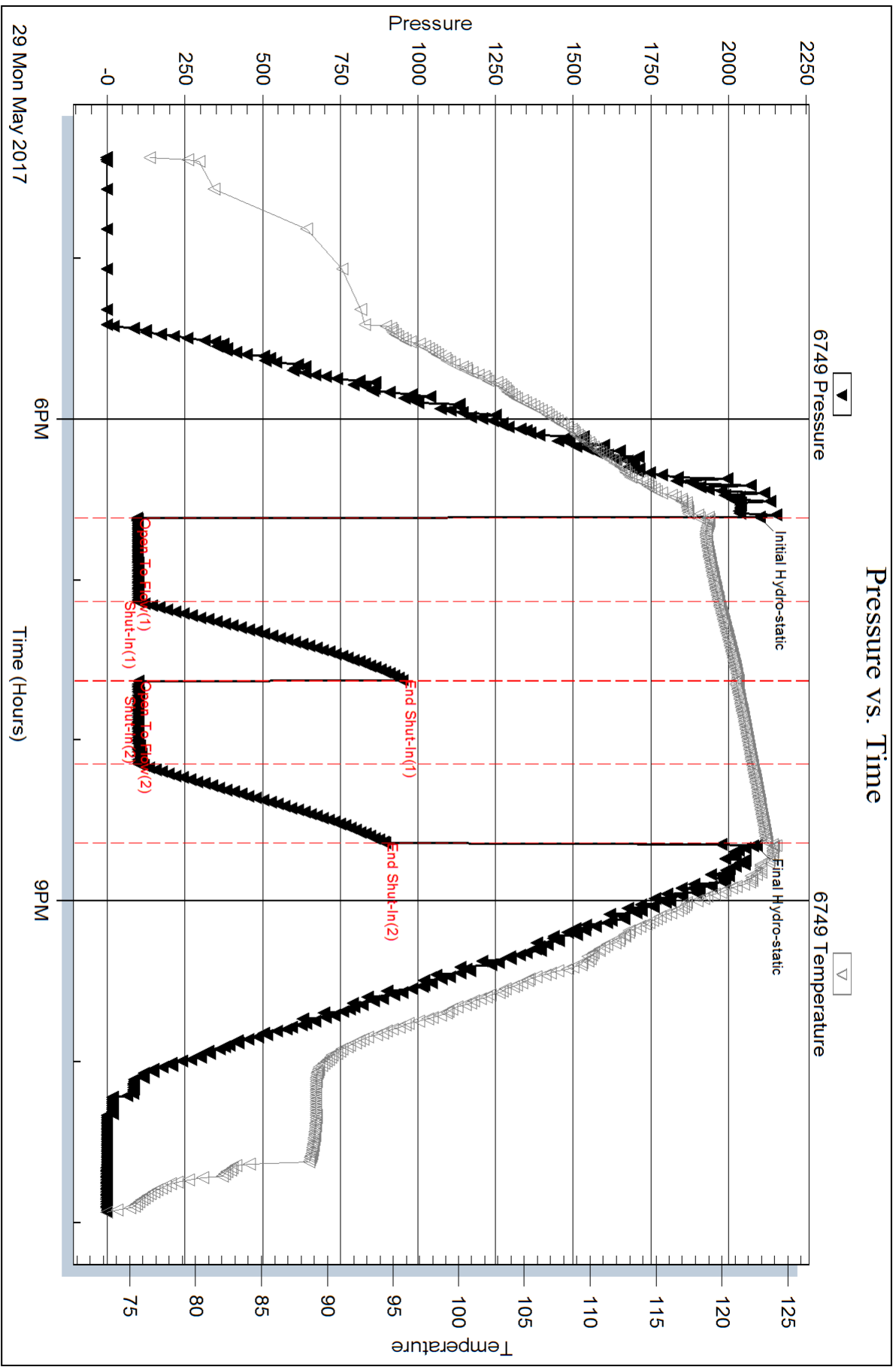
Num Gas Bombs: 0

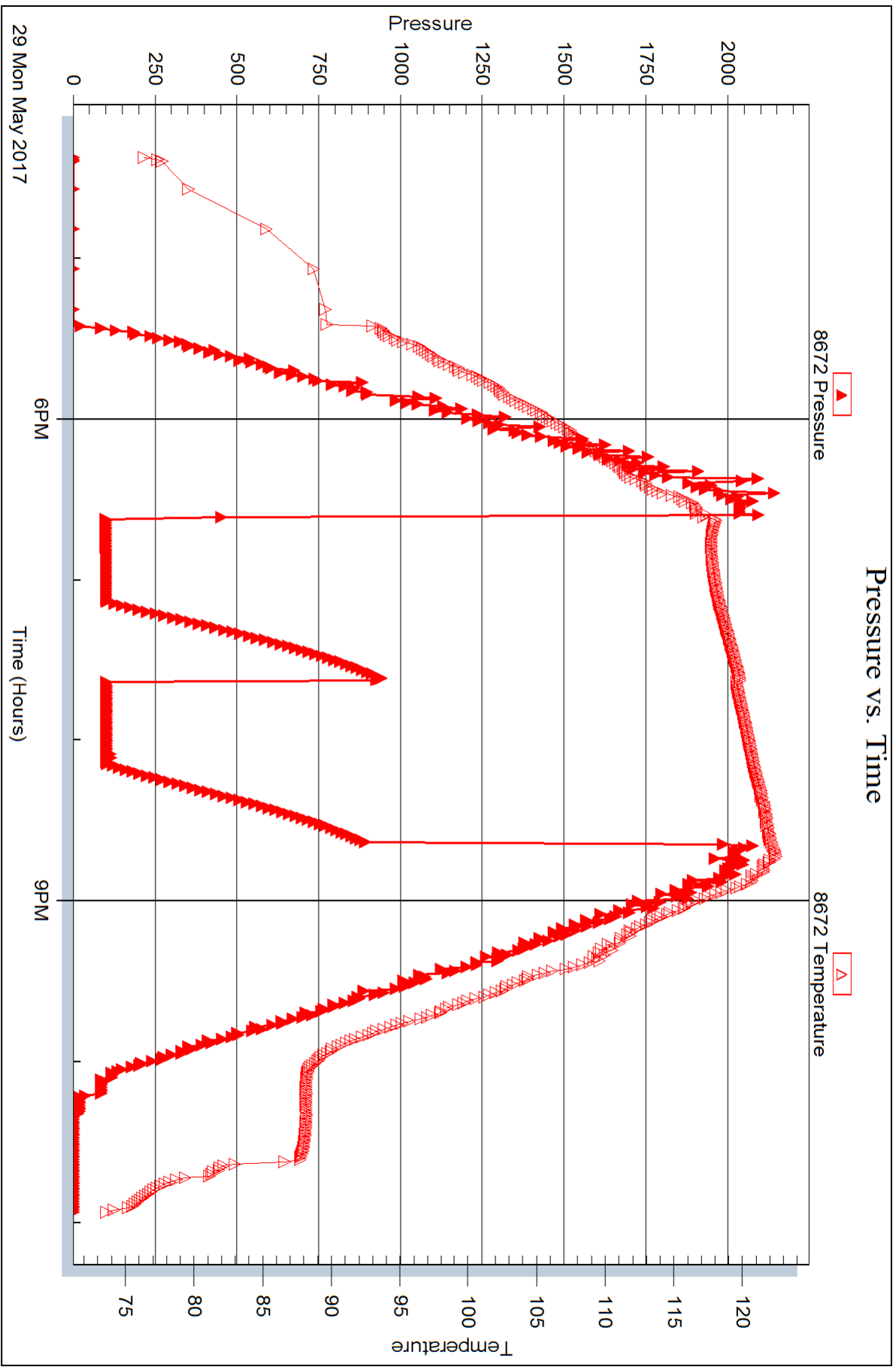
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Eternity Exploration LLC**

338 Spyglass Dr.
Coppell Dr. TX 75019

ATTN: Larry Nicholson

A7 Family Farm #1

7-9s-31w Thomas,KS

Start Date: 2017.05.30 @ 22:00:15

End Date: 2017.05.31 @ 05:11:30

Job Ticket #: 63732 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.06.01 @ 08:56:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eternity Exploration LLC

7-9s-31w Thomas,KS

338 Spyglass Dr.
Coppell Dr. TX 75019

A7 Family Farm #1

ATTN: Larry Nicholson

Job Ticket: 63732

DST#: 3

Test Start: 2017.05.30 @ 22:00:15

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:33:30

Time Test Ended: 05:11:30

Test Type: Conventional Straddle (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4515.00 ft (KB) To 4560.00 ft (KB) (TVD)

Reference Elevations: 2961.00 ft (KB)

Total Depth: 4560.00 ft (KB) (TVD)

2954.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6749 Outside

Press@RunDepth: 66.61 psig @ 4555.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.05.30

End Date:

2017.05.31

Last Calib.: 2017.05.31

Start Time: 22:00:15

End Time:

05:11:30

Time On Btm: 2017.05.31 @ 00:33:15

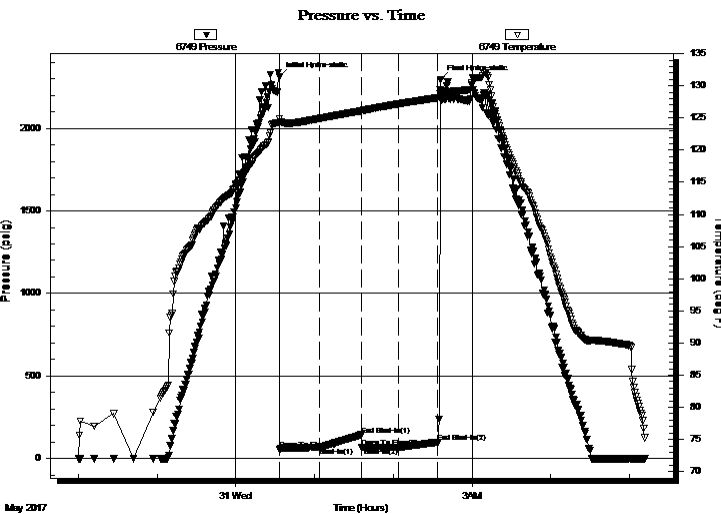
Time Off Btm: 2017.05.31 @ 02:36:15

TEST COMMENT: IF: Built to 1/2" blow and died in 20 min.

IS: No return blow

FF: No blow

FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2311.12	124.90	Initial Hydro-static
1	57.05	124.29	Open To Flow (1)
31	66.34	124.92	Shut-In(1)
63	143.94	126.11	End Shut-In(1)
63	66.35	126.10	Open To Flow (2)
91	66.61	127.19	Shut-In(2)
121	96.45	128.13	End Shut-In(2)
123	2296.21	128.87	Final Hydro-static

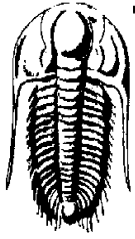
Recovery

Length (ft)	Description	Volume (bbl)
62.00	mud 100%m	0.30

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Eternity Exploration LLC

7-9s-31w Thomas,KS

338 Spyglass Dr.
Coppell Dr. TX 75019

A7 Family Farm #1

ATTN: Larry Nicholson

Job Ticket: 63732

DST#: 3

Test Start: 2017.05.30 @ 22:00:15

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:33:30

Time Test Ended: 05:11:30

Test Type: Conventional Straddle (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: **4515.00 ft (KB) To 4560.00 ft (KB) (TVD)**

Reference Elevations: 2961.00 ft (KB)

Total Depth: 4560.00 ft (KB) (TVD)

2954.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: **8672** Inside

Press@RunDepth: psig @ 4555.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.05.30

End Date:

2017.05.31

Last Calib.:

2017.05.31

Start Time: 22:00:15

End Time:

05:11:15

Time On Btm:

Time Off Btm:

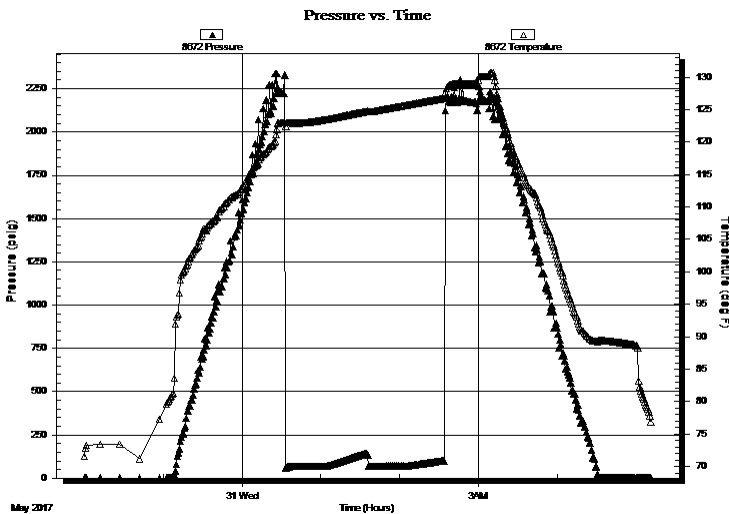
TEST COMMENT: IF: Built to 1/2" blow and died in 20 min.

IS: No return blow

FF: No blow

FS: No return blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	mud 100%m	0.30

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Eternity Exploration LLC

7-9s-31w Thomas,KS

338 Spyglass Dr.
Coppell Dr. TX 75019

A7 Family Farm #1

Job Ticket: 63732

DST#: 3

ATTN: Larry Nicholson

Test Start: 2017.05.30 @ 22:00:15

Tool Information

Drill Pipe:	Length: 4393.00 ft	Diameter: 3.80 inches	Volume: 61.62 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 123.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose:	140000.0 lb
			<u>Total Volume: 62.22 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	4515.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	4560.00 ft				
Interval between Packers:	45.00 ft				
Tool Length:	69.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Recommend to short trip prior to DST #4 .

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4492.00	
Shut In Tool	5.00			4497.00	
Hydraulic tool	5.00			4502.00	
Jars	5.00			4507.00	
Safety Joint	3.00			4510.00	
Packer	5.00			4515.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4515.00	
Stubb	1.00			4516.00	
Perforations	5.00			4521.00	
Change Over Sub	1.00			4522.00	
Drill Pipe	32.00			4554.00	
Change Over Sub	1.00			4555.00	
Recorder	0.00	8672	Inside	4555.00	
Recorder	0.00	6749	Outside	4555.00	
Bullnose	5.00			4560.00	45.00 Anchor Tool

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Eternity Exploration LLC

7-9s-31w Thomas,KS

338 Spyglass Dr.
Coppell Dr. TX 75019

A7 Family Farm #1

Job Ticket: 63732

DST#: 3

ATTN: Larry Nicholson

Test Start: 2017.05.30 @ 22:00:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	mud 100%m	0.305

Total Length: 62.00 ft Total Volume: 0.305 bbl

Num Fluid Samples: 0

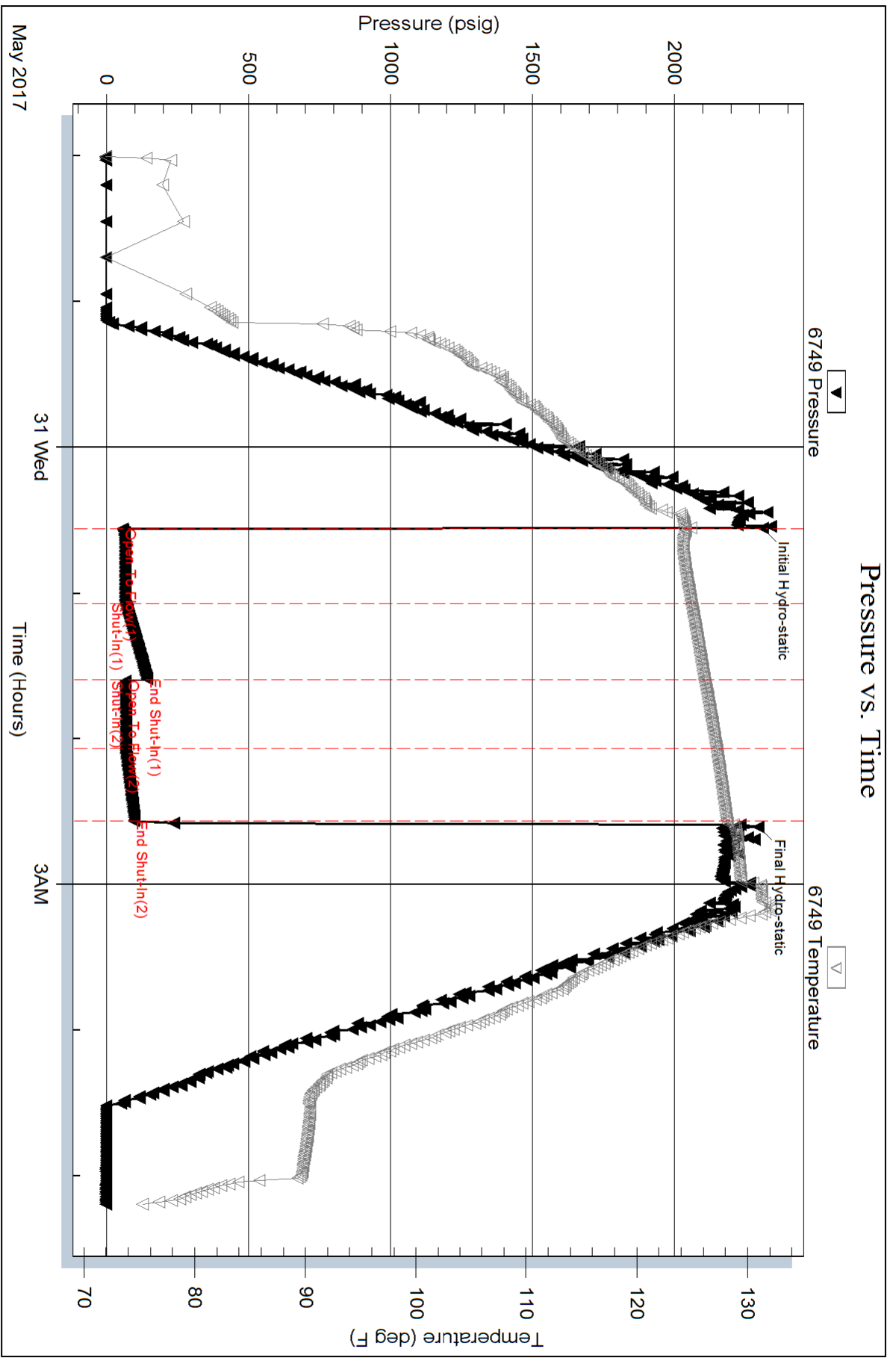
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



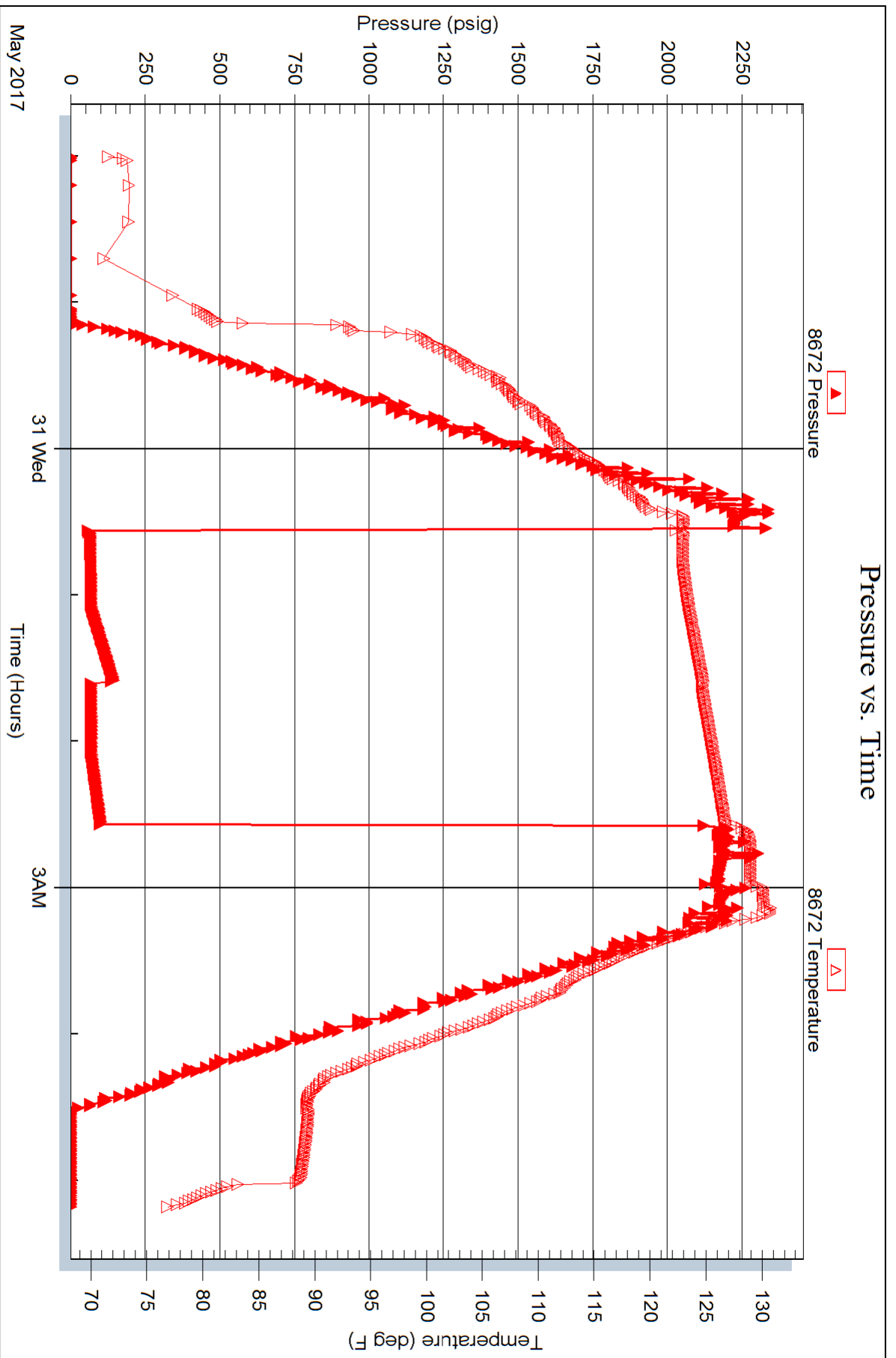
Serial #: 8672

Inside

Eternity Exploration LLC

A7 Family Farm #1

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63730**

Well Name & No. A17 Family Farm #1 Test No. 1 Date 5-28-17
 Company Eternity Exploration LLC Elevation 2961 KB 2954 GL
 Address 338 Spyglass Dr. Coppell TX 75019
 Co. Rep / Geo. Larry Nicholson Rig STP
 Location: Sec. 7 Twp. 9S Rge. 31W Co. Thomas State KS

Interval Tested 4190-4222 Zone Tested J
 Anchor Length 32 Drill Pipe Run 4071 Mud Wt. 9.2
 Top Packer Depth 4185 Drill Collars Run 123 Vis 60
 Bottom Packer Depth 4190 Wt. Pipe Run 0 WL 6.4
 Total Depth 4222 Chlorides 3000 ppm System LCM 3
 Blow Description IF: Built to 1/4" died to Surface Blow
IS: No Return Blow
FF: No Blow
FS: No Return Blow

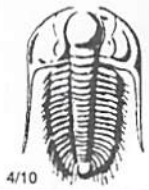
Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>MUD</u>			<u>100</u>	
<u>62</u>	<u>OCM</u>		<u>3</u>	<u>97</u>	

Rec Total 65 BHT 128 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2111</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00/-</u>	T-On Location <u>18:10</u>
(B) First Initial Flow <u>44</u>	<input checked="" type="checkbox"/> Jars <u>\$250.00/-</u>	T-Started <u>19:42</u>
(C) First Final Flow <u>47</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00/-</u>	T-Open <u>22:17</u>
(D) Initial Shut-In <u>1123</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>01:17</u>
(E) Second Initial Flow <u>50</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>03:26</u>
(F) Second Final Flow <u>52</u>	<input checked="" type="checkbox"/> Mileage <u>BORT = \$97.50/-</u>	Comments
(G) Final Shut-In <u>1019</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2217</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input checked="" type="checkbox"/> Shale Packer <u>\$250.00/-</u>	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1822.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>\$1822.50/-</u>	

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 60

Approved By [Signature] Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63731**

Well Name & No. A7 Family Farm #1 Test No. 2 Date 5-29-17
 Company Eternity Exploration LLC Elevation 2961 KB 2954 GL
 Address 338 Spyglass Dr. Coppell TX 75019
 Co. Rep / Geo. Larry Nicholson Rig STP
 Location: Sec. 7 Twp. 9S Rge. 3/W Co. Thomas State KS

Interval Tested 4217-4284 Zone Tested K+L
 Anchor Length 67 Drill Pipe Run 4071 Mud Wt. 9.3
 Top Packer Depth 4212 Drill Collars Run 123 Vis 56
 Bottom Packer Depth 4217 Wt. Pipe Run Ø WL 7.2
 Total Depth 4284 Chlorides 3000 ppm System LCM 2
 Blow Description IF: Built to 1/8" Blow
IS: No Return Blow
FF: No Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>130</u>	<u>mud with oil spots</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 130 BHT 124 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2098</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00/-</u>	T-On Location <u>15:40</u>
(B) First Initial Flow <u>96</u>	<input checked="" type="checkbox"/> Jars <u>\$250.00/-</u>	T-Started <u>16:22</u>
(C) First Final Flow <u>98</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00/-</u>	T-Open <u>18:37</u>
(D) Initial Shut-In <u>949</u>	<input checked="" type="checkbox"/> Circ Sub	T-Pulled <u>20:37</u>
(E) Second Initial Flow <u>99</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>22:56</u>
(F) Second Final Flow <u>99</u>	<input checked="" type="checkbox"/> Mileage <u>130 RT = \$97.52/-</u>	Comments
(G) Final Shut-In <u>892</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2088</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> Ruined Shale Packer <u>350</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>\$250.00/-</u>	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>350</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>2172.50</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>\$1822.52/-</u>	

Approved By _____ Our Representative Mike Bobak

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63732**

Well Name & No. A7 Family Farm #1 Test No. 3 Date 5-30-17
 Company Eternity Exploration LLC Elevation 2961 KB 2954 GL
 Address 338 Spyglass Dr. Coppell TX 75019
 Co. Rep / Geo. Larry Nicholson Rig STP
 Location: Sec. 7 Twp. 9S Rge. 3W Co. Thomas State KS

Interval Tested 4515-4560 Zone Tested Johnson
 Anchor Length 45 Drill Pipe Run 4393 Mud Wt. 9.2
 Top Packer Depth 4510 Drill Collars Run 123 Vis 52
 Bottom Packer Depth 4515 Wt. Pipe Run 8 WL 6.8
 Total Depth 4560 Chlorides 3000 ppm System LCM 2
 Blow Description IF: Boil 4 to 1/2" Died in 20 min
IS: NO Return Blow
FF: NO Blow
FS: NO Return Blow

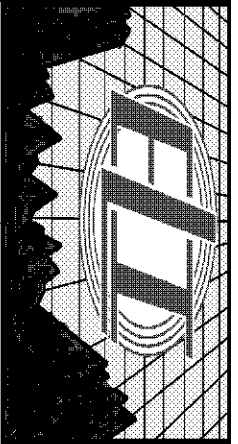
Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 62 BHT 129 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2311</u>	<input checked="" type="checkbox"/> Test <u>\$1150.00/-</u>	T-On Location <u>20:31</u>
(B) First Initial Flow <u>57</u>	<input checked="" type="checkbox"/> Jars <u>\$250.00/-</u>	T-Started <u>22:00</u>
(C) First Final Flow <u>66</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$75.00/-</u>	T-Open <u>00:34</u>
(D) Initial Shut-In <u>143</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>02:34</u>
(E) Second Initial Flow <u>66</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>05:11</u>
(F) Second Final Flow <u>66</u>	<input checked="" type="checkbox"/> Mileage <u>130RT = \$92.50/-</u> 195	Comments <u>Recommend Short Trip Prior To DST #4</u>
(G) Final Shut-In <u>96</u>	<input type="checkbox"/> Sampler <u>X2 Load at 15:00 5:31</u>	<input checked="" type="checkbox"/> Ruined Shale Packer <u>350</u>
(H) Final Hydrostatic <u>2296</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>350</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>2270</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1920</u>	

Approved By L. Nichol Our Representative Mike Rohrb

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



COMPENSATED NEUTRON DENSITY/PE LOG

Company ETERNITY EXPLORATION, LLC
 Well A7 FAMILY FARM #1
 Field N/A
 County THOMAS
 State KANSAS

Company ETERNITY EXPLORATION, LLC
 Well A7 FAMILY FARM #1
 Field N/A
 County THOMAS State KANSAS

Location: API #: 15-193-20995-0000
 947' FSL & 1953' FEL
 SEC 7 TWP 9S RGE 31W
 Permanent Datum GROUND LEVEL Elevation 2954
 Log Measured From KELLY BUSHING 7' A.G.L
 Drilling Measured From KELLY BUSHING
 Other Services DIL
 Elevation
 K.B. 2961
 D.F. 2959
 G.L. 2954

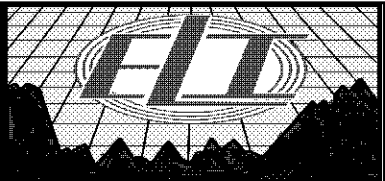
Date	5/31/17
Run Number	ONE
Depth Driller	4680
Depth Logger	4680
Bottom Logged Interval	4656
Top Log Interval	3600
Casing Driller	8 5/8" @ 220'
Casing Logger	220
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.4/50
PH / Fluid Loss	9.1/7.2
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.90 @ 68F
Rmt @ Meas. Temp	.68 @ 68F
Rmc @ Meas. Temp	1.08 @ 68F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.50 @ 122F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	122F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	GUS PFANENSTIEL
Witnessed By	LARRY NICHOLSON

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

Comments

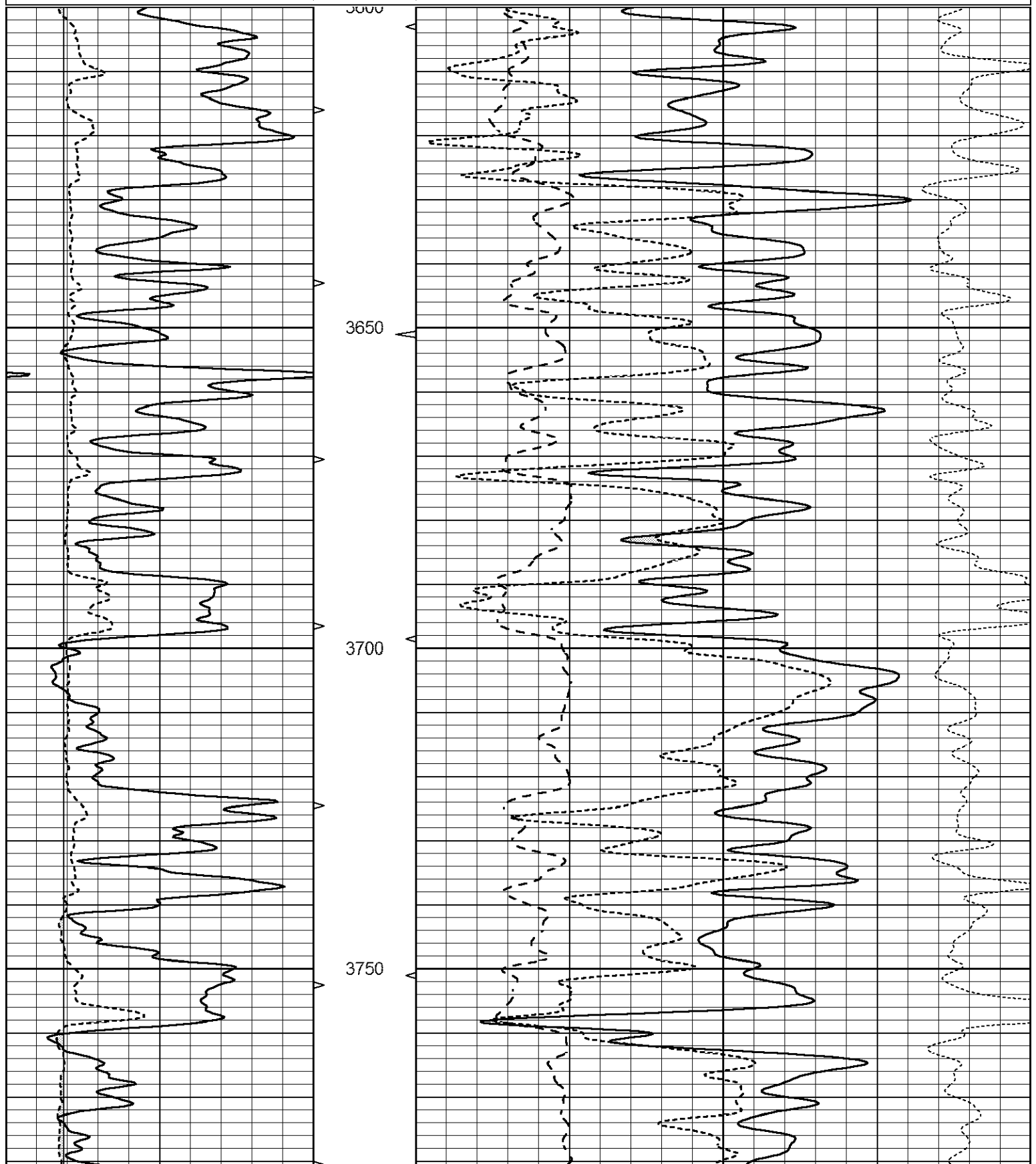
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
 DIRECTIONS
 OAKLEY NORTH TO J. RD,
 EAST 3 MILES, NORTH 2 MILES
 WEST INTO.

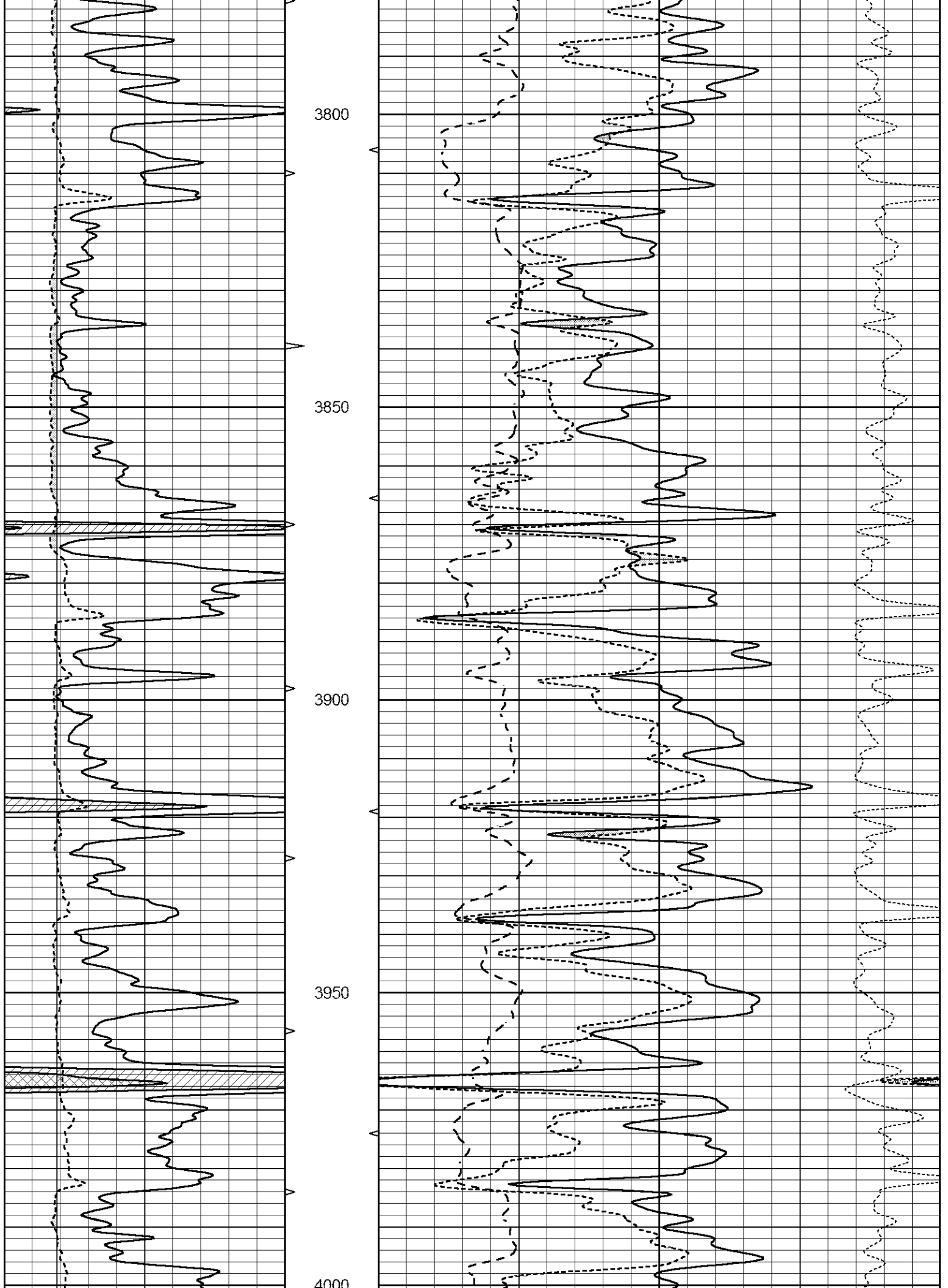


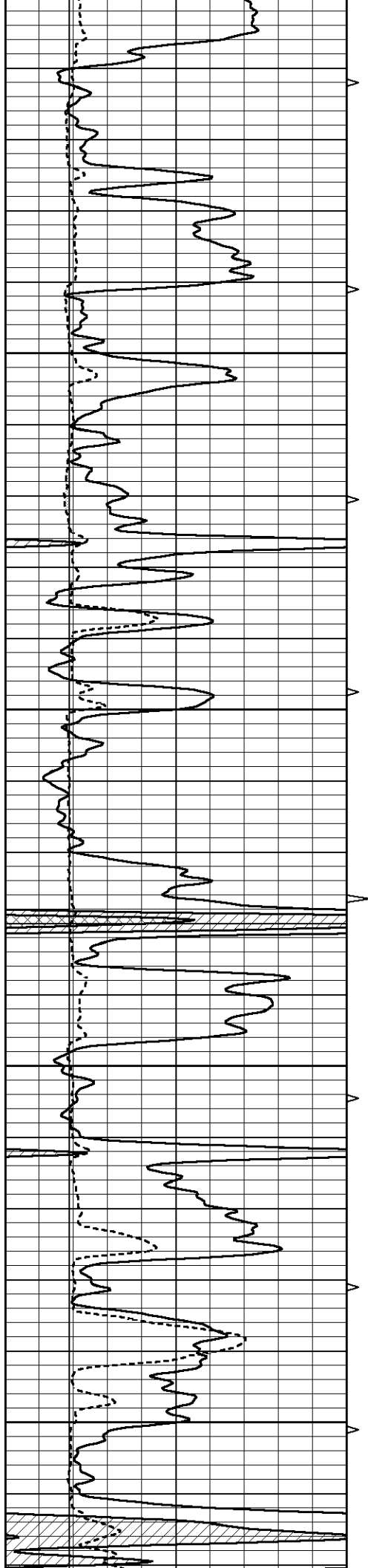
MAIN PASS

Database File 1145pe.db
 Dataset Pathname pass5.1
 Presentation Format _ldt_neu
 Dataset Creation Thu Jun 01 01:26:03 2017
 Charted by Depth in Feet scaled 1:240

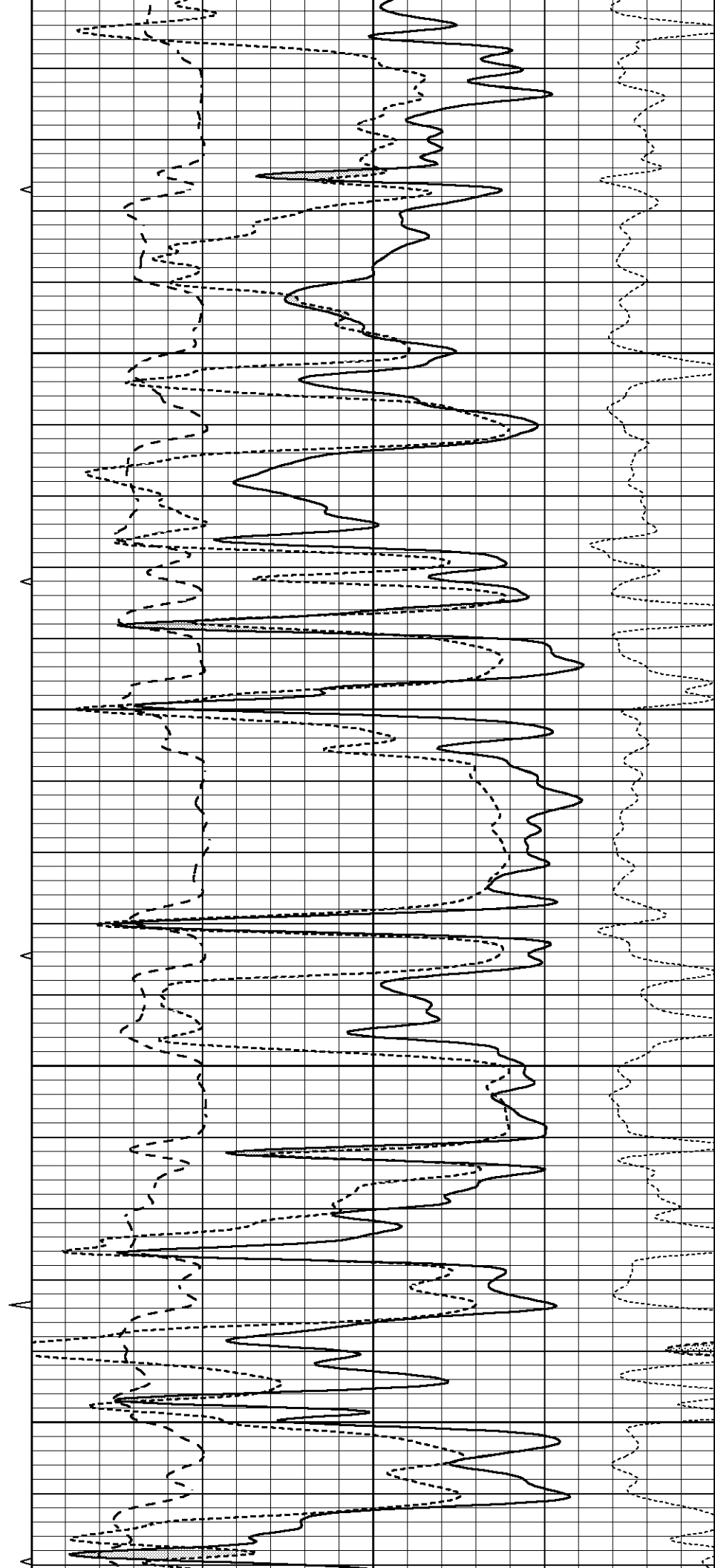
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6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
			TBHV	0	PE	10 -0.25
			0 (ft3)	10	CORRECTION (g/cc)	0.25

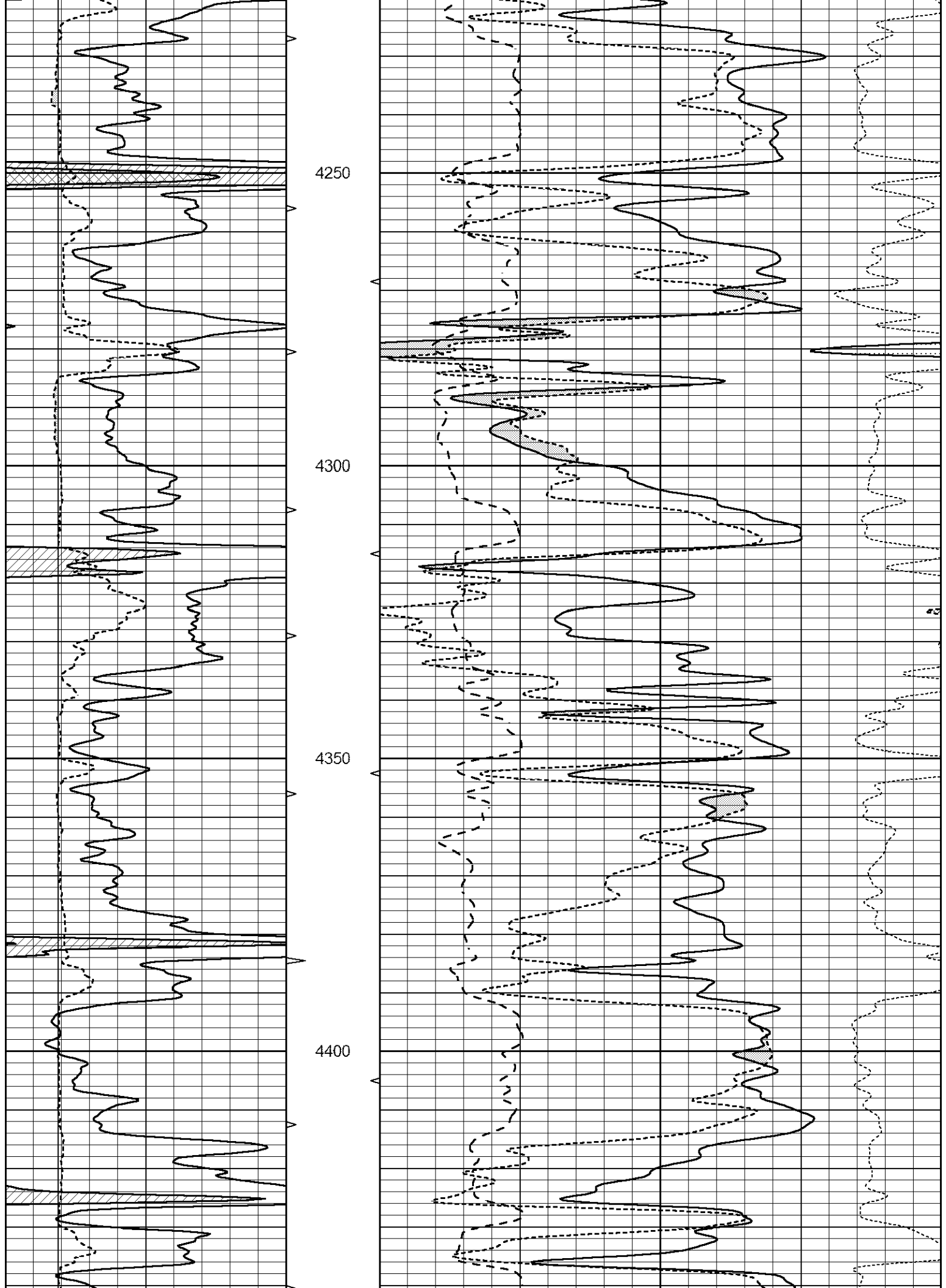


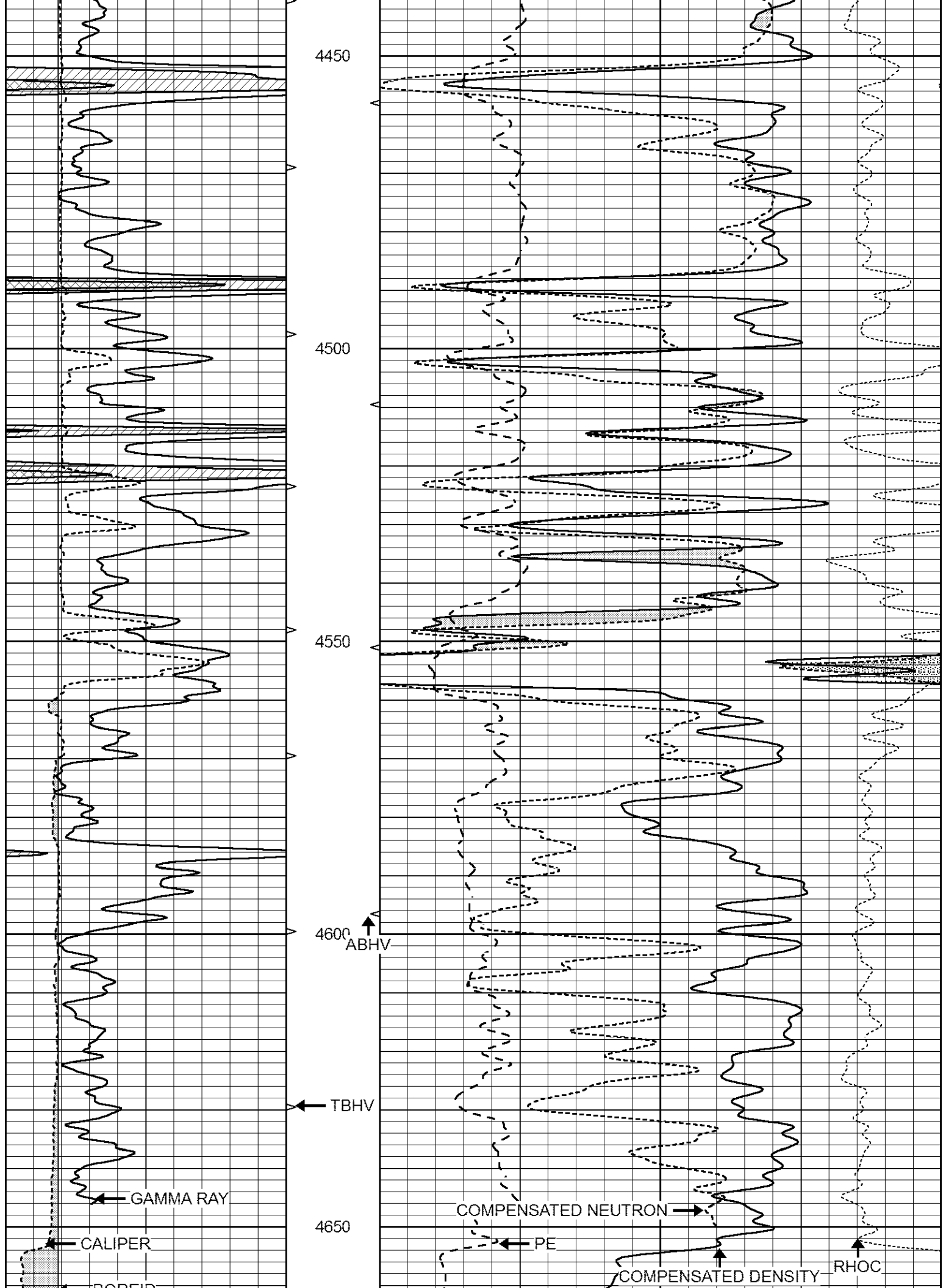




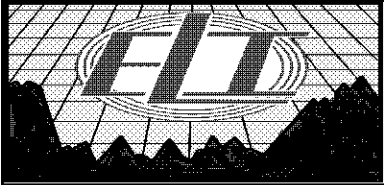
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4100
4150
4200







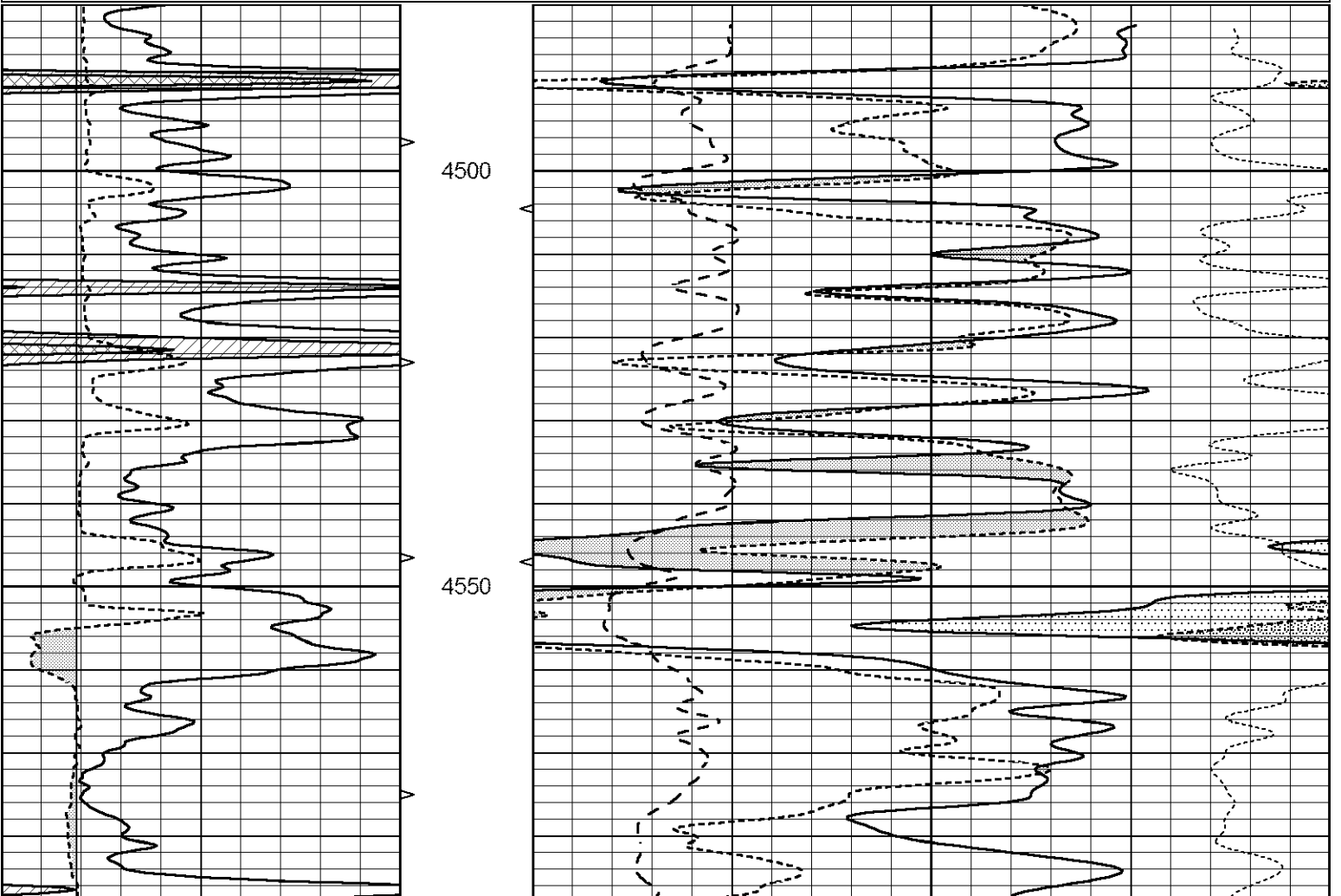
BOREHOLE		LTD 4680		LIMESTON MATRIX 2.71					
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10			
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)	-10		
-----		TBHV		0	PE	10	-0.25	CORRECTION (g/cc)	0.25
-----		0 (ft3)		10					

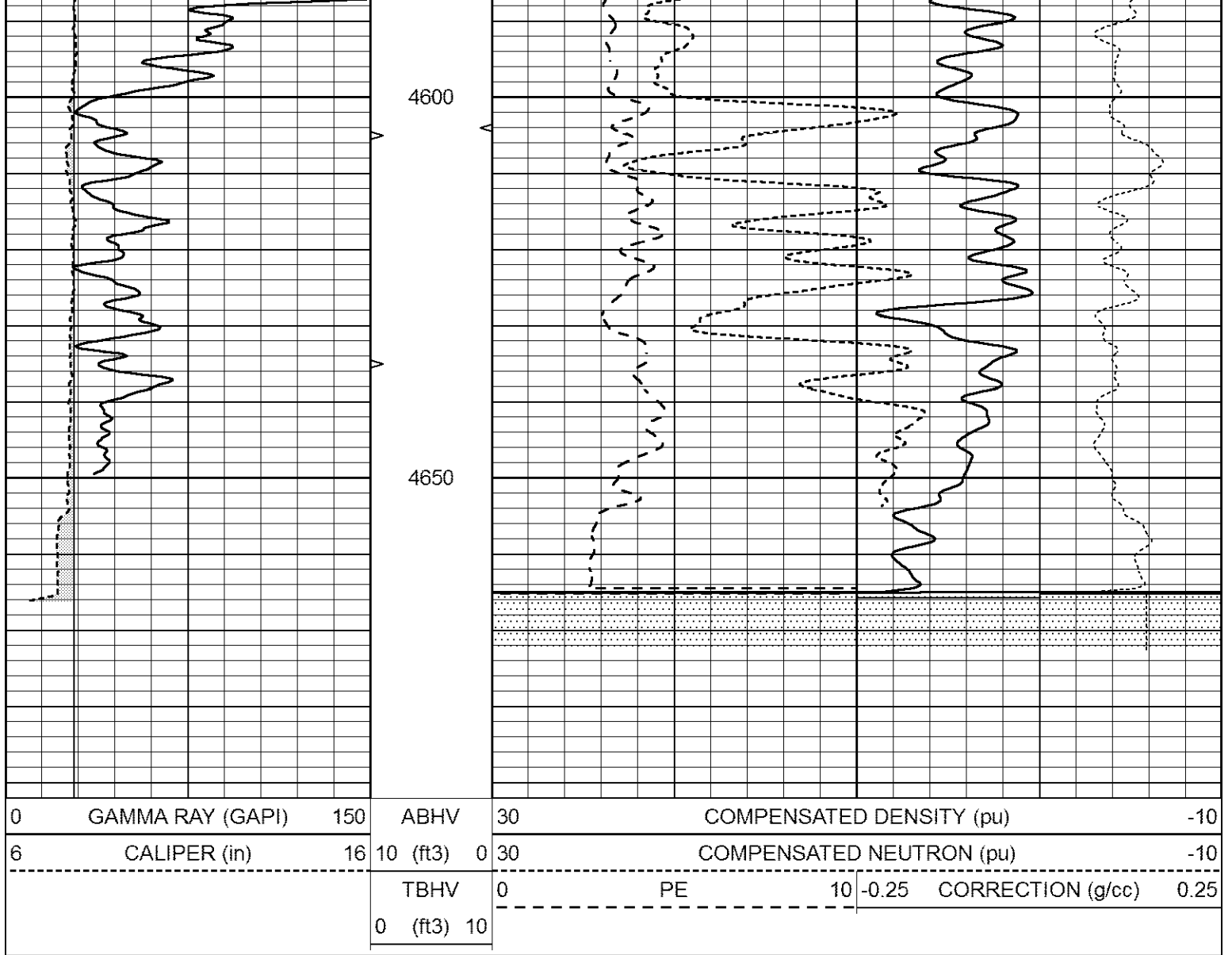


REPEAT SECTION

Database File 1145pe.db
 Dataset Pathname pass3.1
 Presentation Format _ldt_neu
 Dataset Creation Thu Jun 01 01:37:33 2017
 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	
-----		TBHV		0	PE	10	-0.25	CORRECTION (g/cc)	0.25
-----		0 (ft3)		10					





Calibration Report

Database File 1145pe.db
 Dataset Pathname pass3.1
 Dataset Creation Thu Jun 01 01:37:33 2017

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Mon May 22 14:23:32 2017
 Downhole Cal Performed: Thu Mar 12 09:29:20 2015
 After Survey Verification Performed: Thu Mar 12 09:29:20 2015

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop	V	Air	Loop	mmho/m	m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration

Readings	References	Results
----------	------------	---------

	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		

After Survey Verification								
	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Litho Density Calibration Report
Serial: 140704
Model: V4_10P
Source Number: 74GBq-19

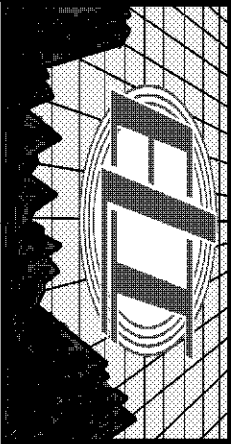
Master Calibration					Performed: Wed Feb 11 18:53:41 2015			
	Background	Aluminum	Magnesium					
Window 1	613.01	6027.40	27508.60	cps				
Window 2	48.21	1424.77	7132.66	cps				
Window 4	266.48	1373.19	5767.15	cps				
Window 5	622.07	10090.30	18937.90	cps				
Window 6	49.07	1682.84	3271.18	cps				
Window 8	298.04	3248.38	5980.58	cps				
Bulk Density	-	2.6020	1.6830	g/cc				
Pe	-	3.0000	2.5070	b/e				
LS Alpha:	: -1.8451	SS Alpha:	: -0.7542	LS CPE:	: 1.0882			
LS Beta:	: 138648.8473	SS Beta:	: 21960.9250	SS CPE:	: 1.5181			

Before Survey Background Counts Verification				Performed: Wed Dec 31 18:00:00 1969			
Window 1	0.00	cps					
Window 2	0.00	cps					
Window 4	0.00	cps					
Window 5	0.00	cps					
Window 6	0.00	cps					
Window 8	0.00	cps					

After Survey Background Counts Verification				Performed: Wed Dec 31 18:00:00 1969			
Window 1	0.00	cps					
Window 2	0.00	cps					
Window 4	0.00	cps					
Window 5	0.00	cps					
Window 6	0.00	cps					
Window 8	0.00	cps					

Lithodensity Caliper Calibration				Performed: Wed Feb 11 18:53:41 2015			
Results	Readings	References (in)					

Low	High	Low	High	Gain	Offset
1107.5	7124.1	8.0	15.0	0.0	6.5
Before Survey Caliper Verification		Performed:			
	Reference	Reading			
Caliper (in)	_____	_____			
After Survey Caliper Verification		Performed:			
	Reference	Reading			
Caliper (in)	_____	_____			
Compensated Neutron Calibration Report					
		Serial Number:	080621PMC		
		Tool Model:	NABORS		
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:		Probe1			
Performed:		Mon May 22 14:24:46 2017			
Calibrator Value:		1.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		1.0	cps		
Sensitivity:		0.3800	GAPI/cps		



DUAL INDUCTION LOG

Company ETERNITY EXPLORATION, LLC
 Well A7 FAMILY FARM #1
 Field N/A
 County THOMAS State KANSAS

Company ETERNITY EXPLORATION, LLC
 Well A7 FAMILY FARM #1
 Field N/A
 County THOMAS
 State KANSAS

Location: 947' FSL & 1953' FEL
 API #: 15-193-20995-0000
 Other Services CDL/CNL
 Permanent Datum GROUND LEVEL Elevation 2954
 Log Measured From KELLY BUSHING 7' A.G.L
 Drilling Measured From KELLY BUSHING
 SEC 7 TWP 9S RGE 31W
 Elevation K.B. 2961
 D.F. 2959
 G.L. 2954

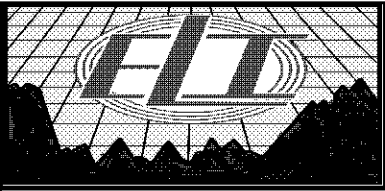
Date	5/31/17
Run Number	ONE
Depth Driller	4680
Depth Logger	4680
Bottom Logged Interval	4678
Top Log Interval	00
Casing Driller	8 5/8" @ 220'
Casing Logger	220
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.4/50
PH / Fluid Loss	9.1/7.2
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.90 @ 68F
Rmt @ Meas. Temp	.68 @ 68F
Rmc @ Meas. Temp	1.08 @ 68F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.50 @ 122F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	122F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	GUS PFANENSTIEL
Witnessed By	LARRY NICHOLSON

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Comments

THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
 DIRECTIONS
 OAKLEY NORTH TO J. RD,
 EAST 3 MILES, NORTH 2 MILES
 WEST INTO.

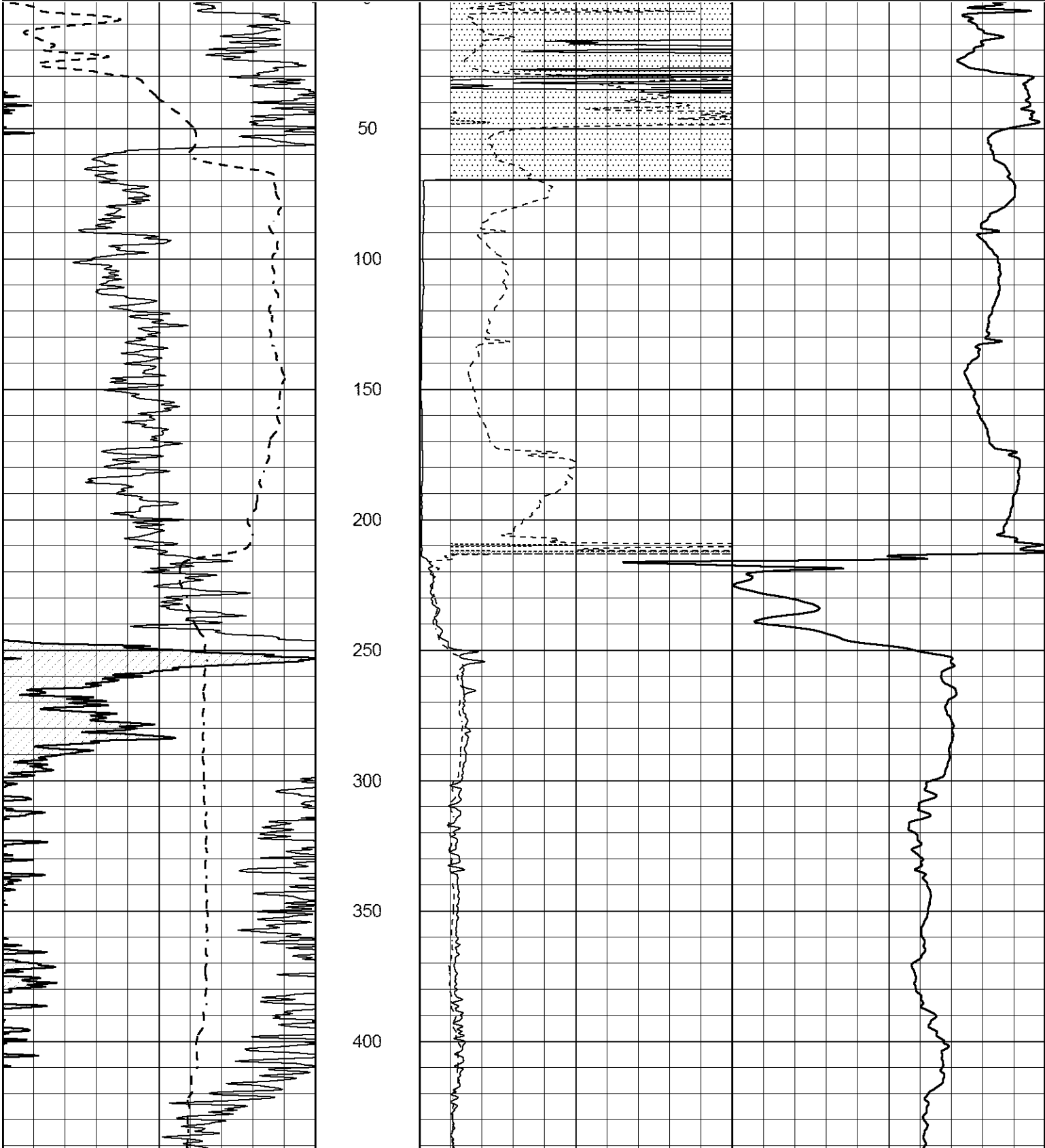


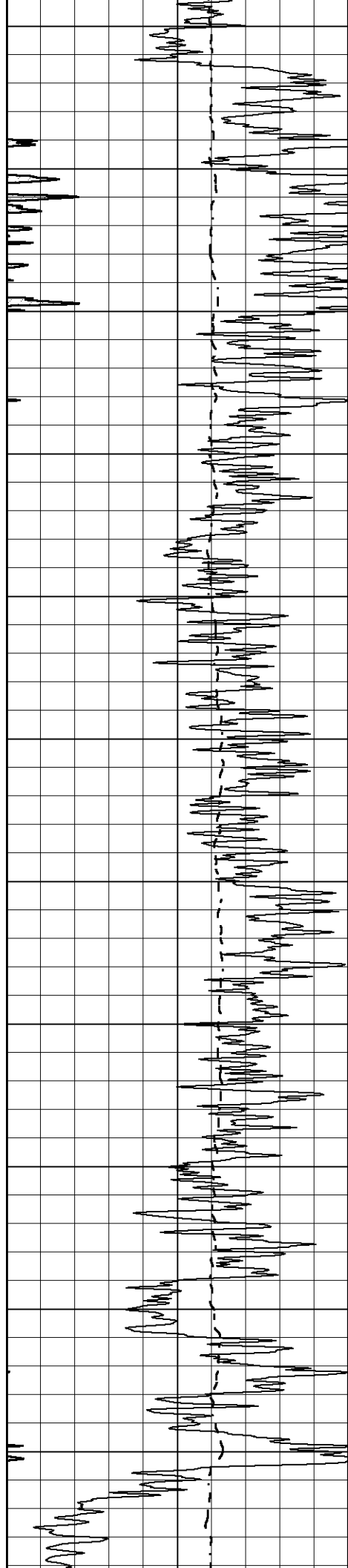
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 Presentation Format _dil2
 Dataset Creation Thu Jun 01 01:26:03 2017
 Charted by Depth in Feet scaled 1:600

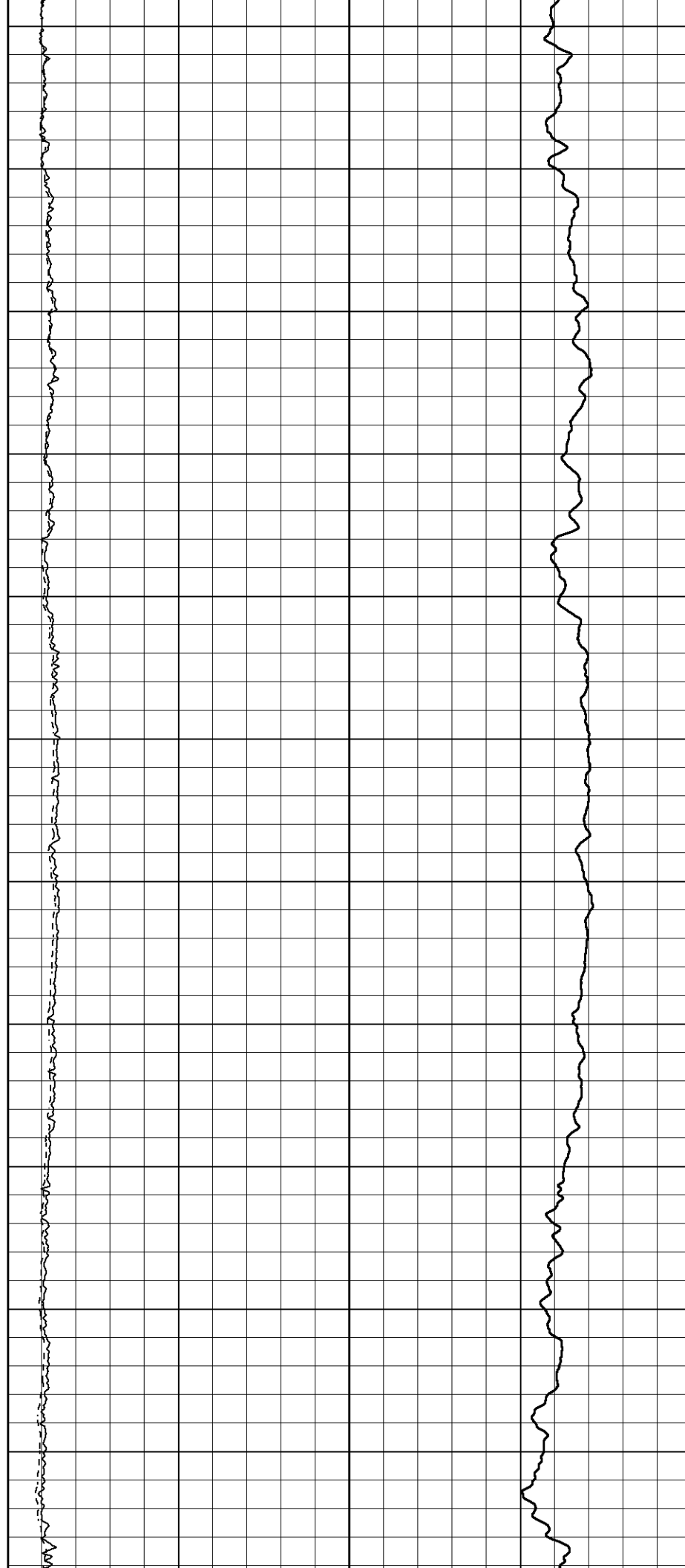
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 -100 SP (mV) 100

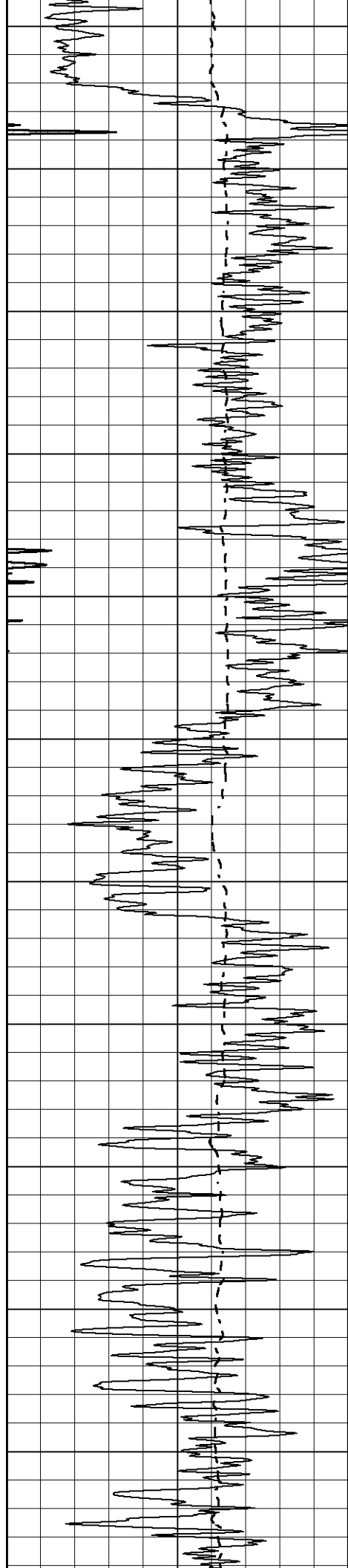
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 0 RLL3 (Ohm-m) 50
 0 Deep Induction (Ohm-m) 50
 50 RILD X10 (Ohm-m) 500
 50 RLL3 X10 (Ohm-m) 500



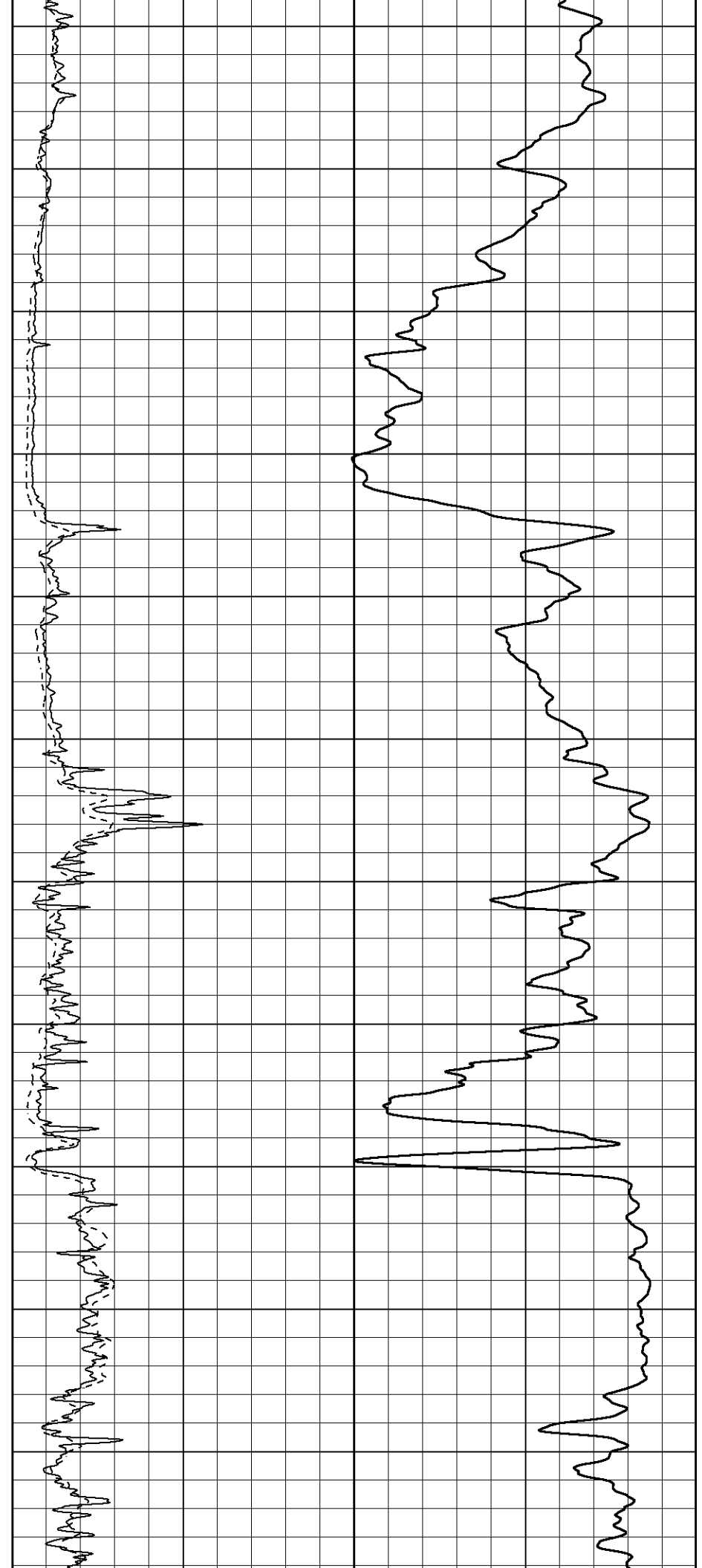


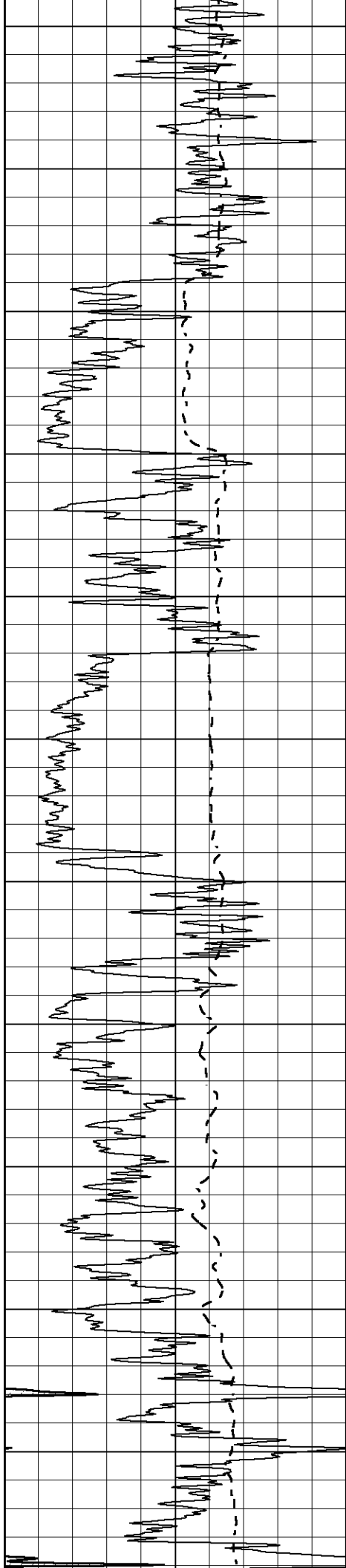
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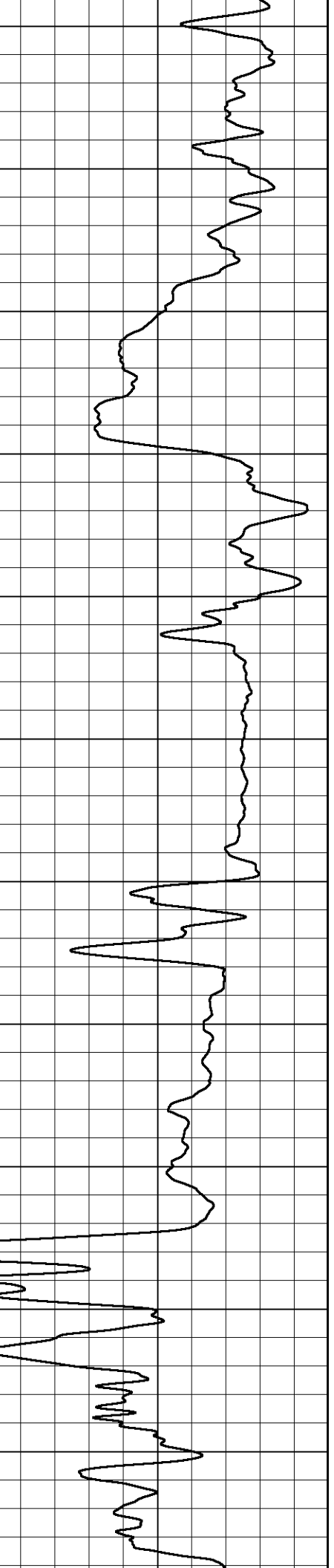
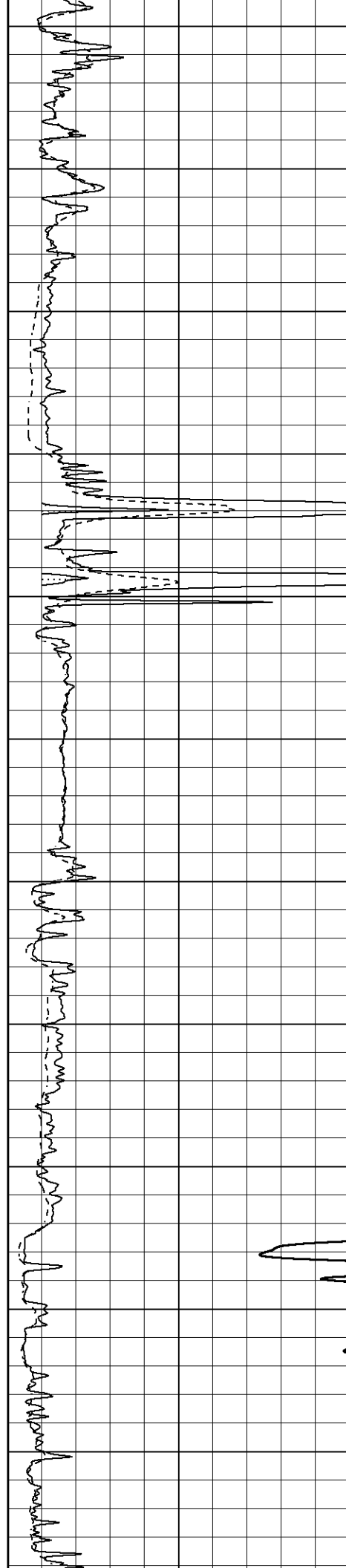


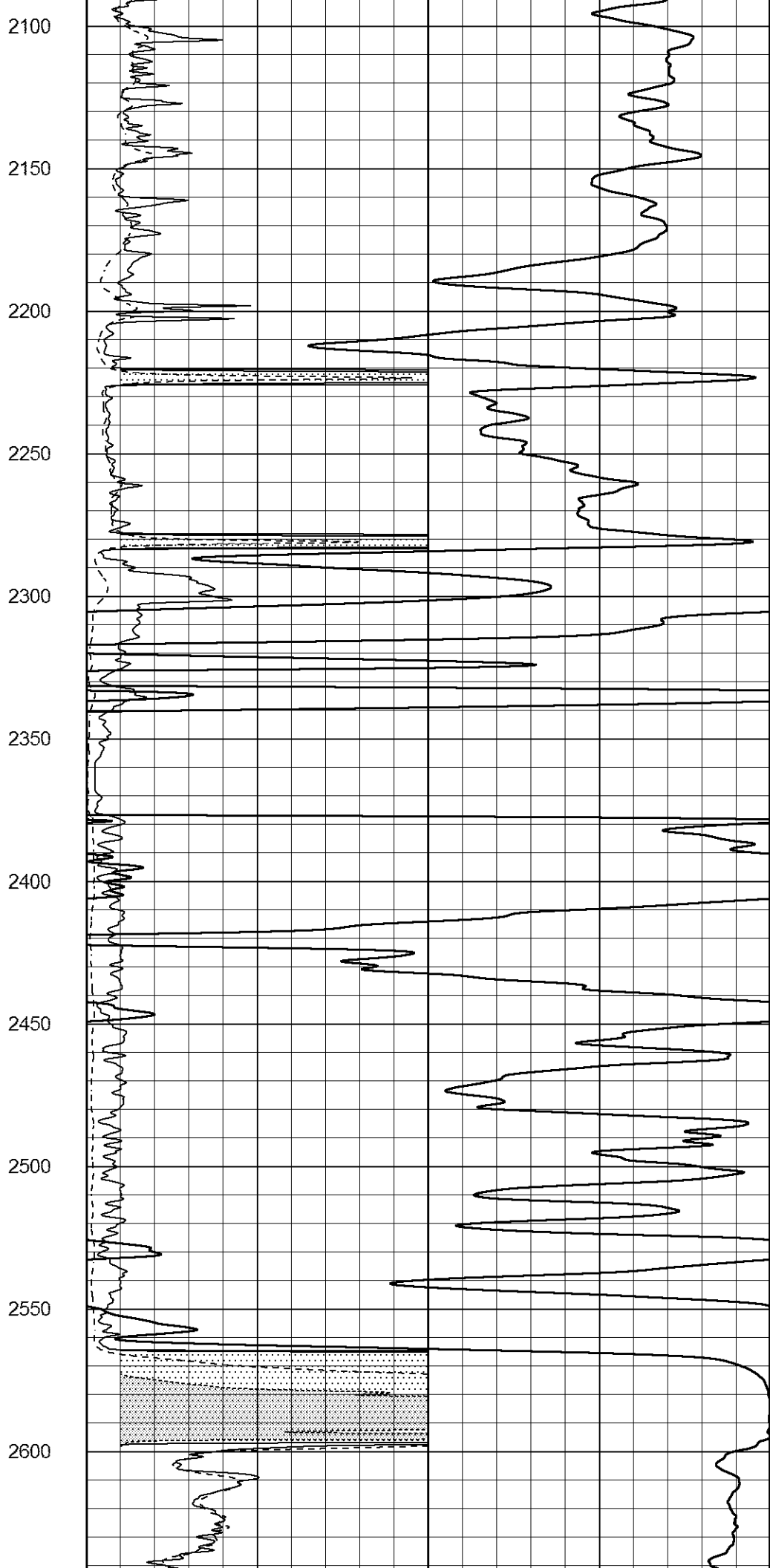
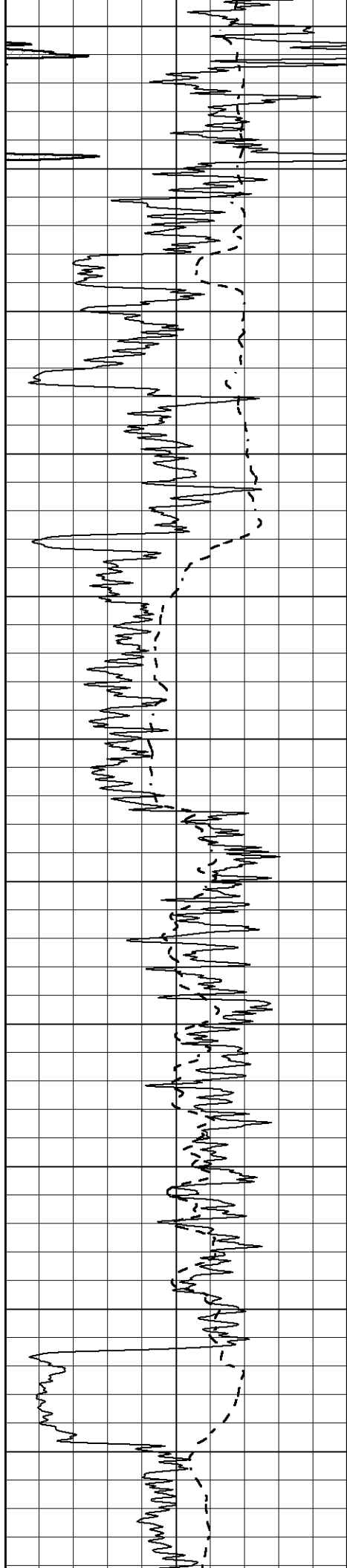
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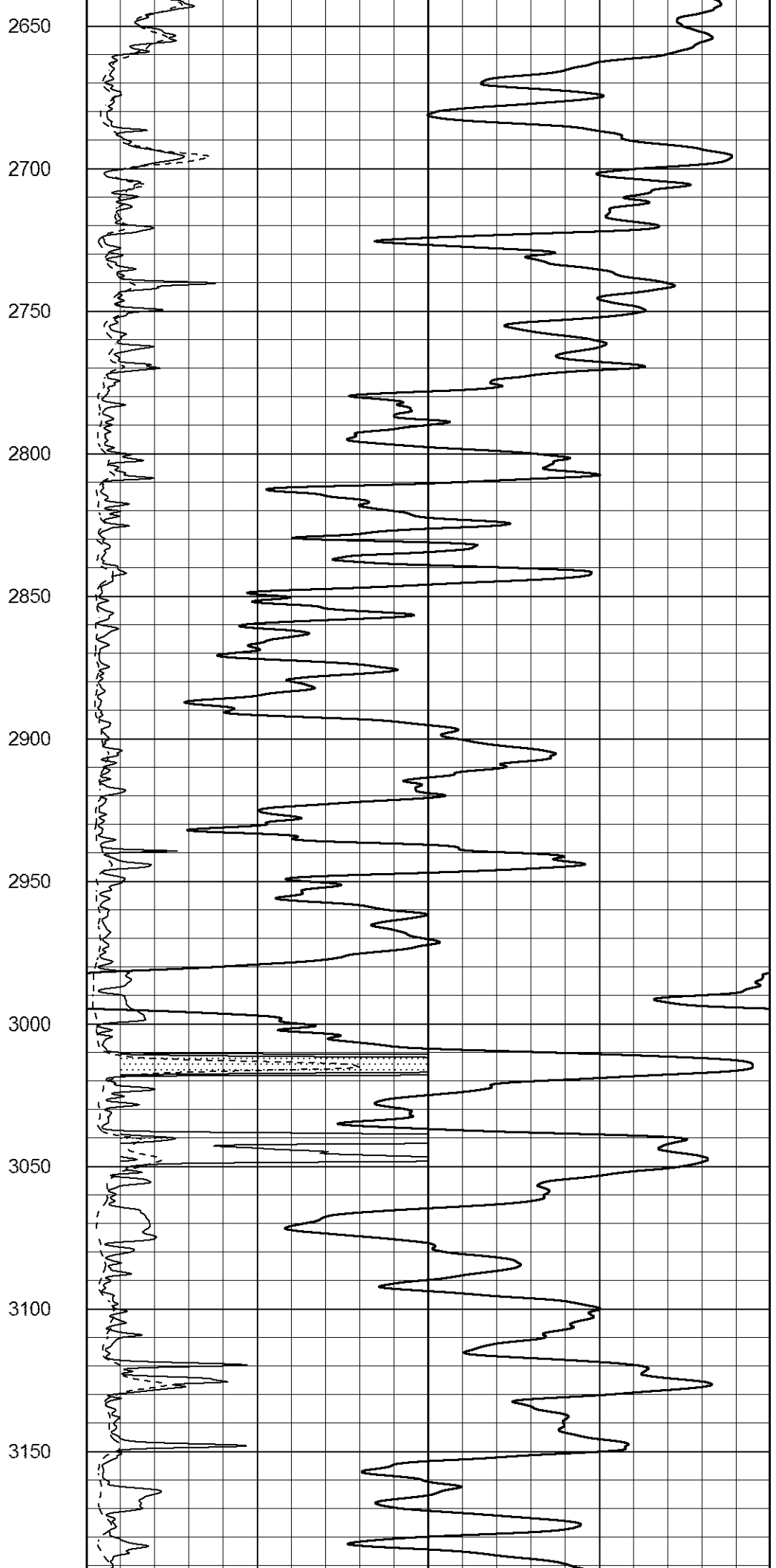
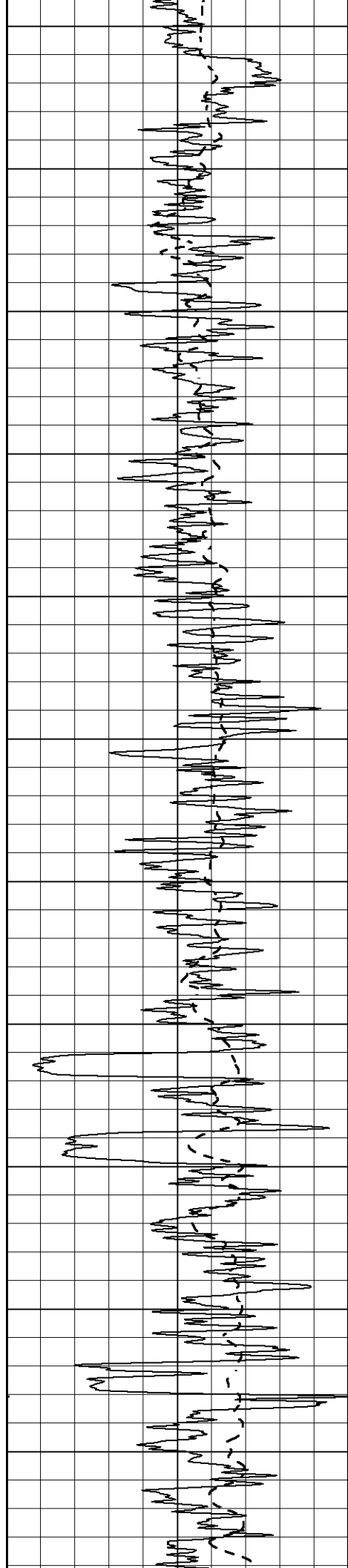


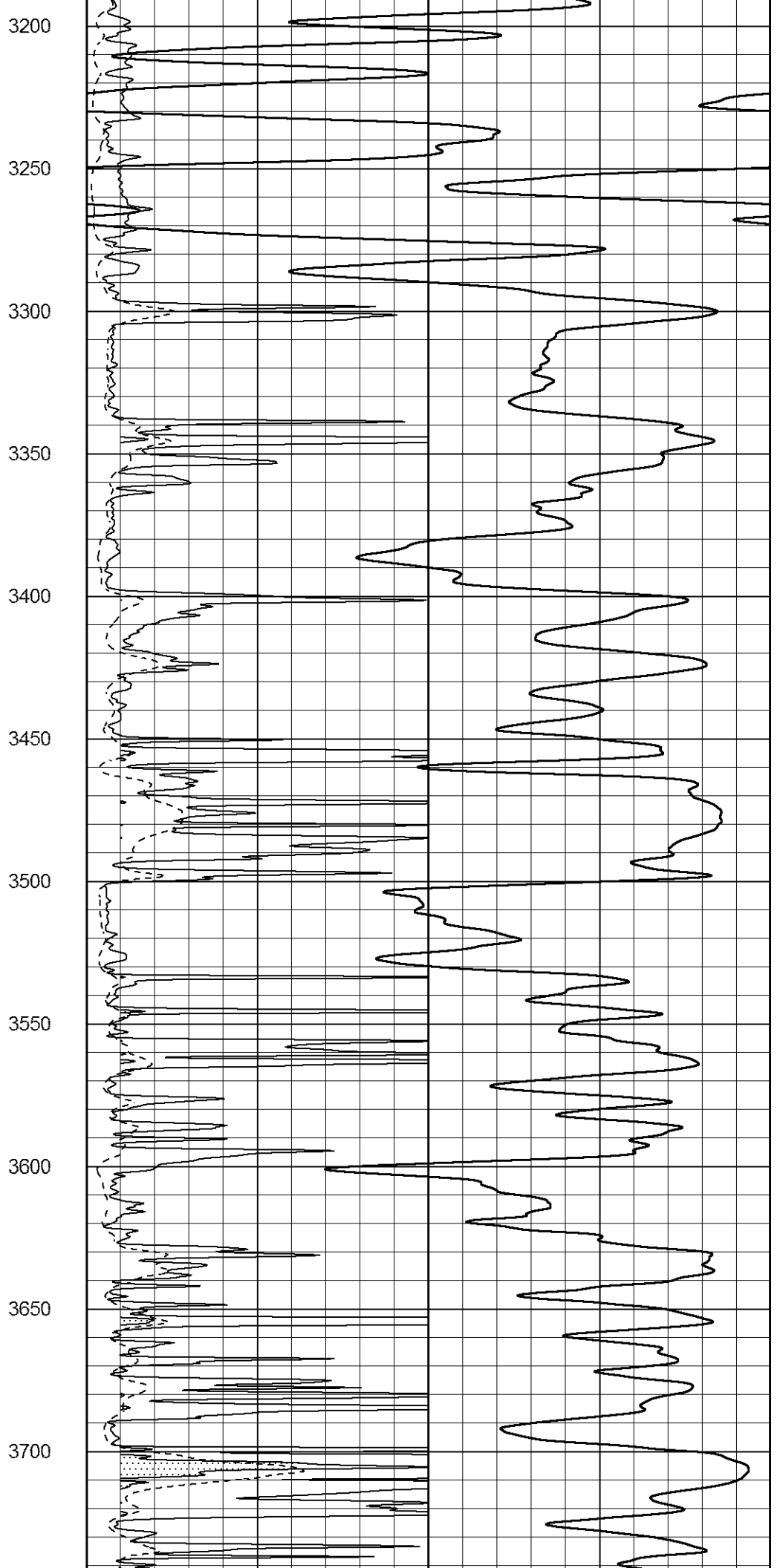
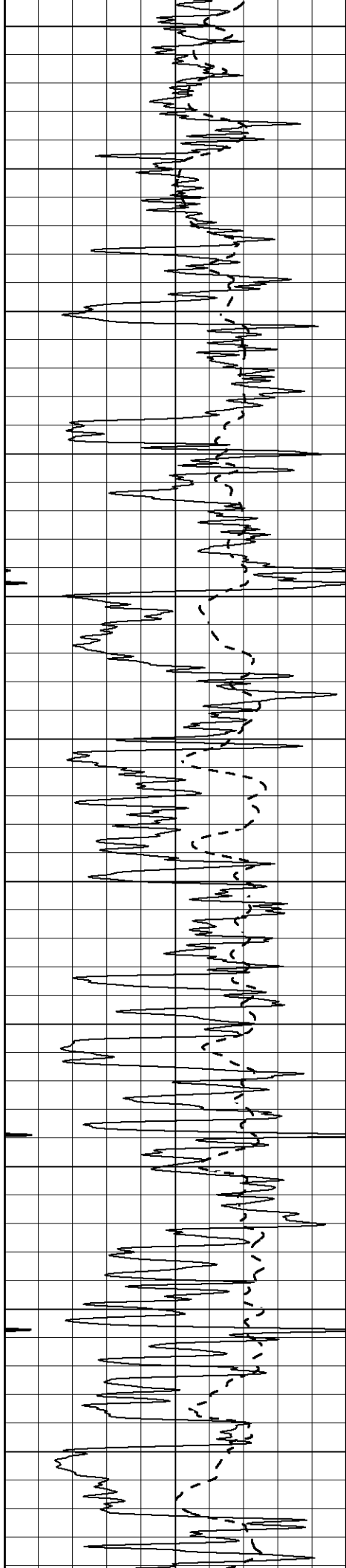


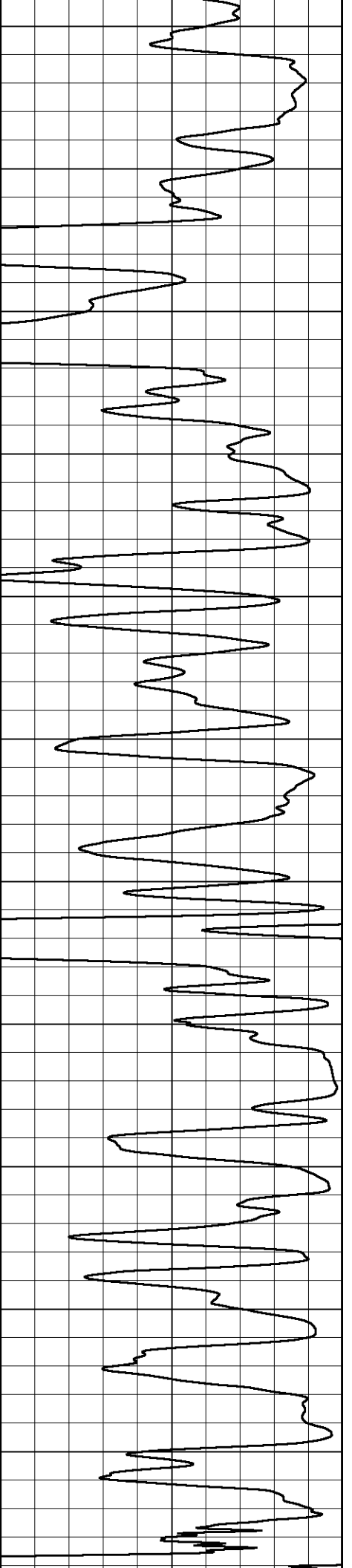
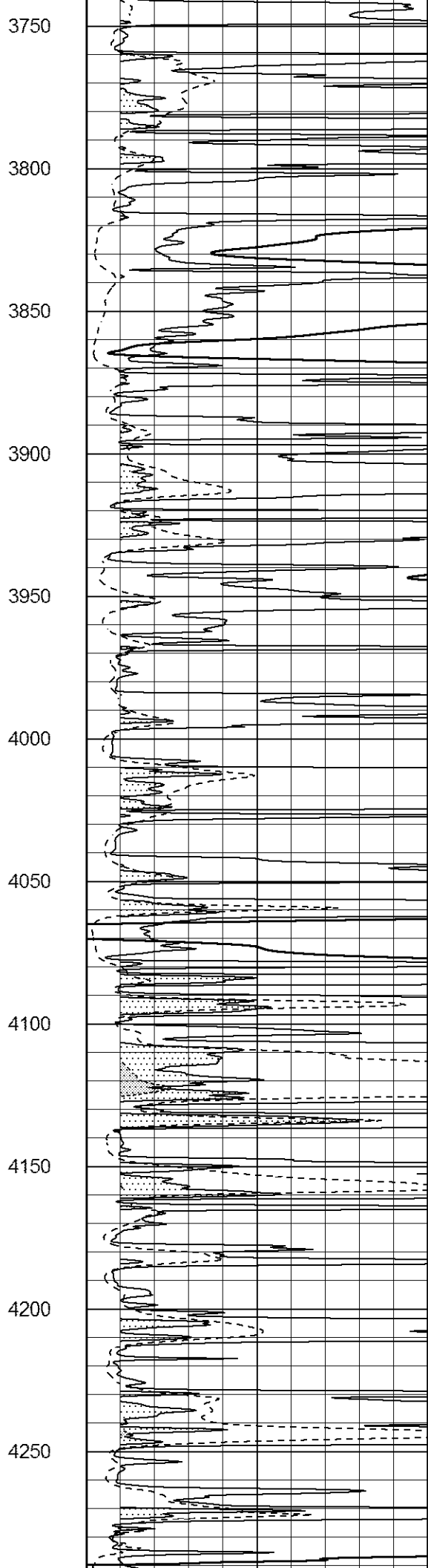
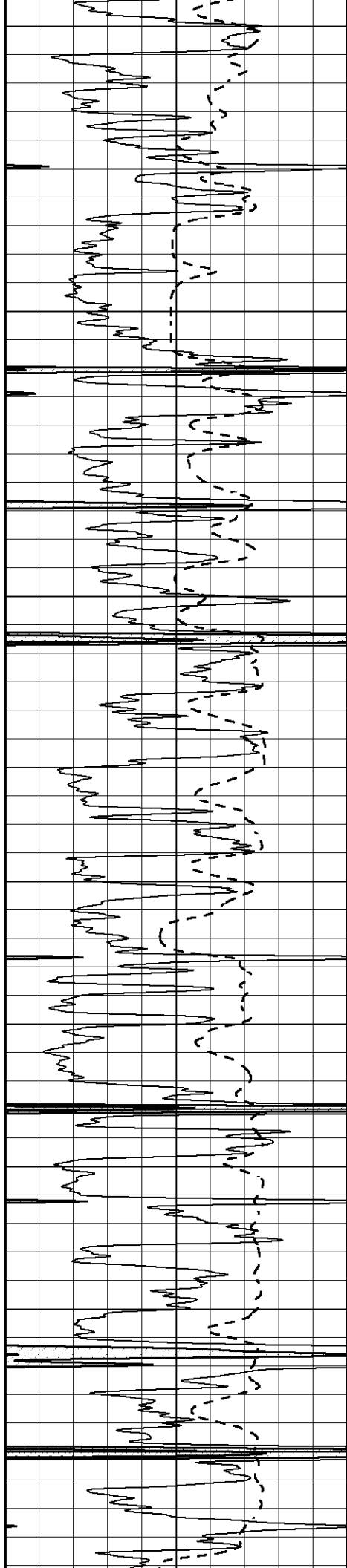
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1950
2000
2050

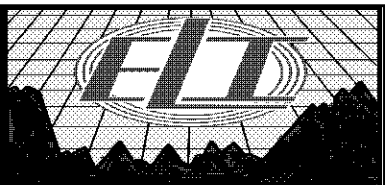
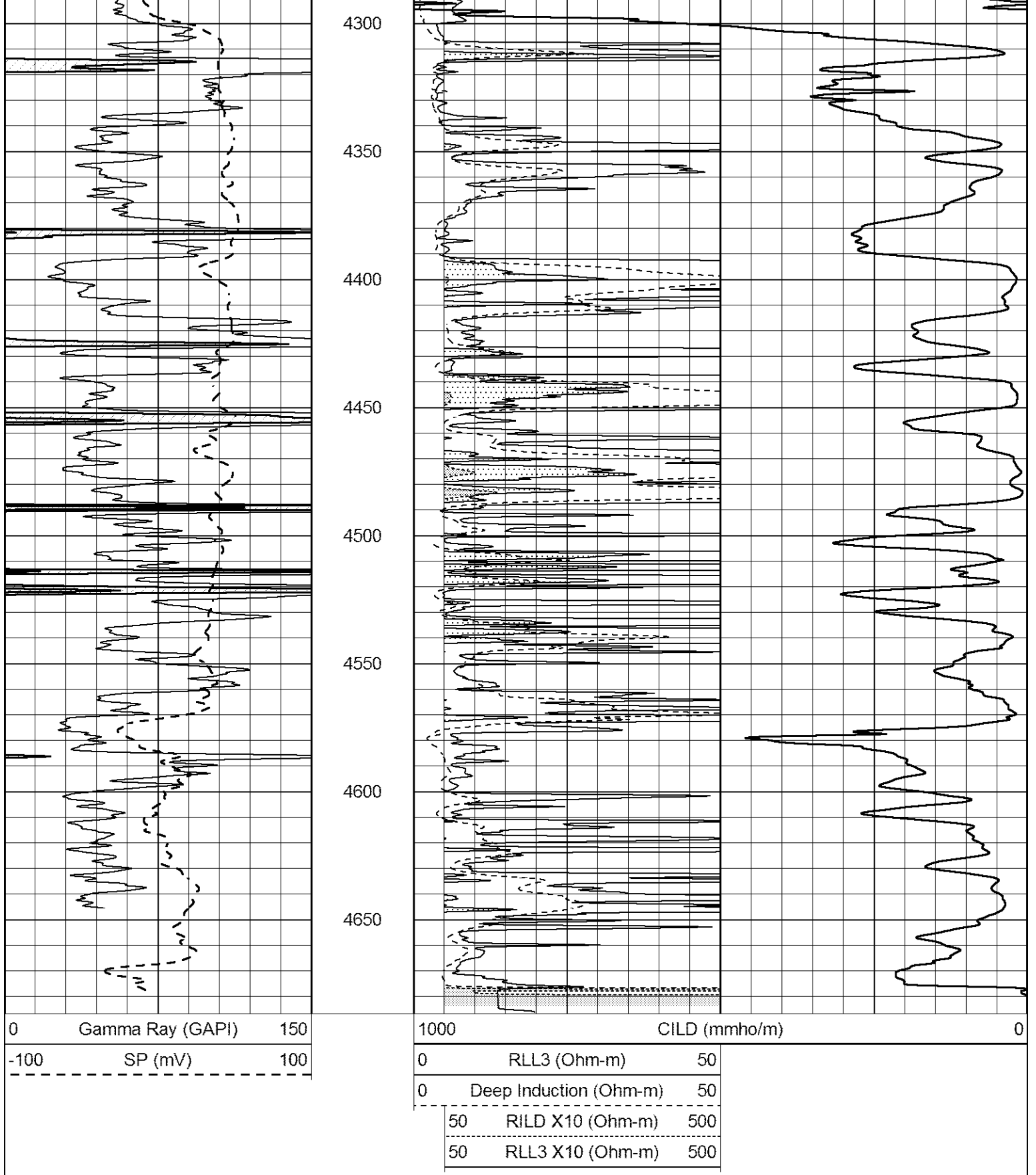








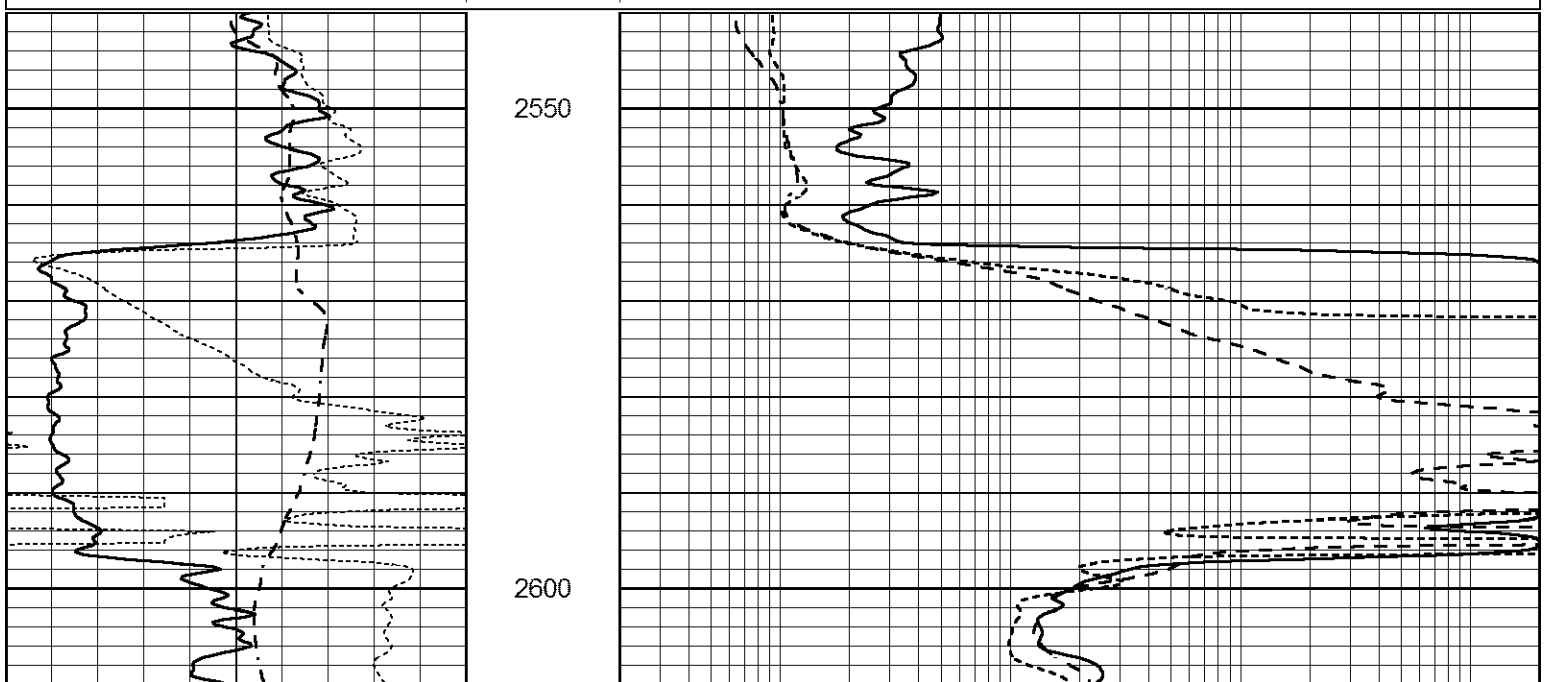




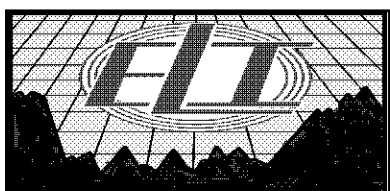
MAIN PASS

Database File 1145pe.db
 Dataset Pathname pass5.1
 Presentation Format _dil

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-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000



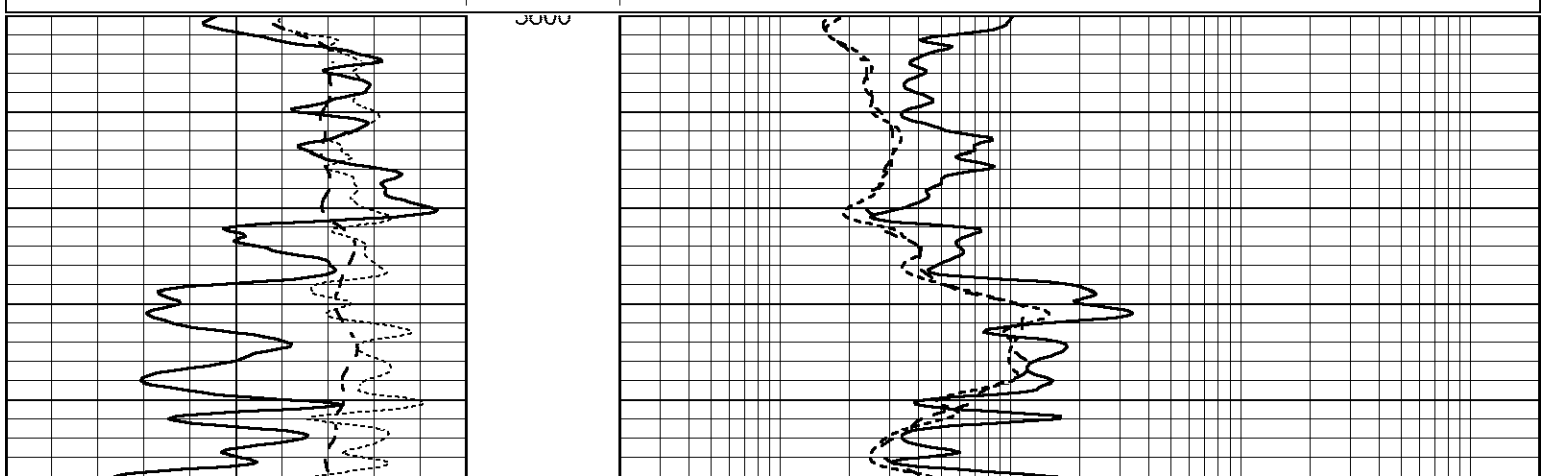
0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000

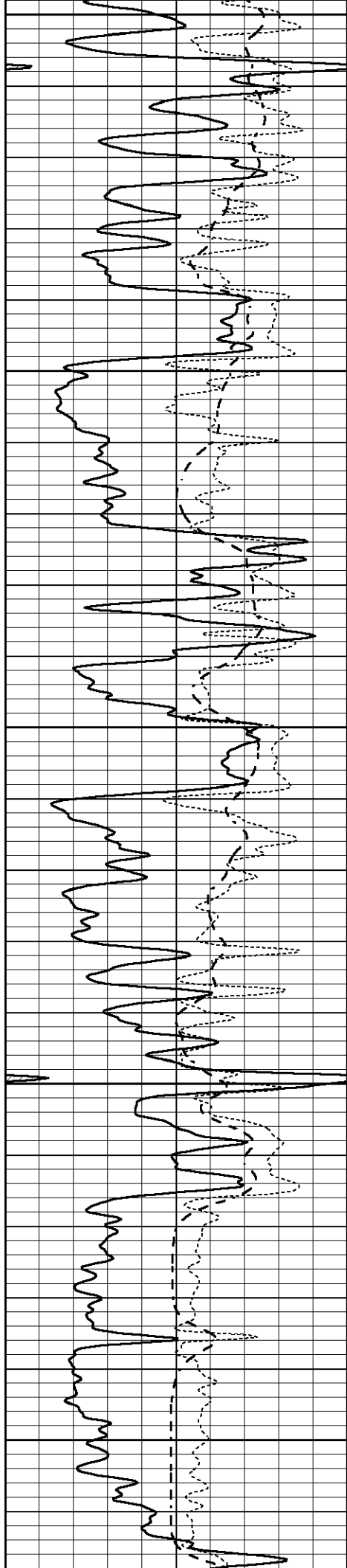


MAIN PASS

Database File 1145pe.db
 Dataset Pathname pass5.1
 Presentation Format _dil
 Dataset Creation Thu Jun 01 01:26:03 2017
 Charted by Depth in Feet scaled 1:240

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-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000





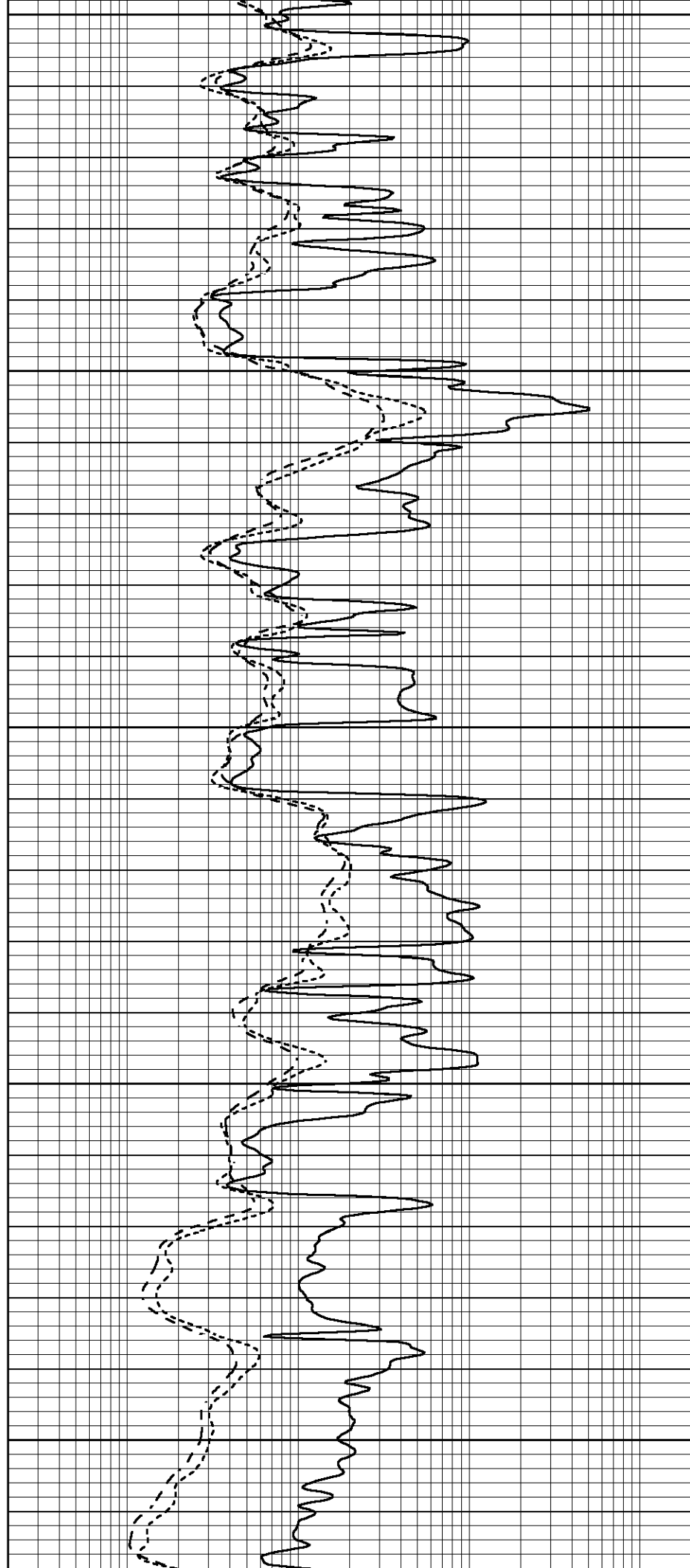
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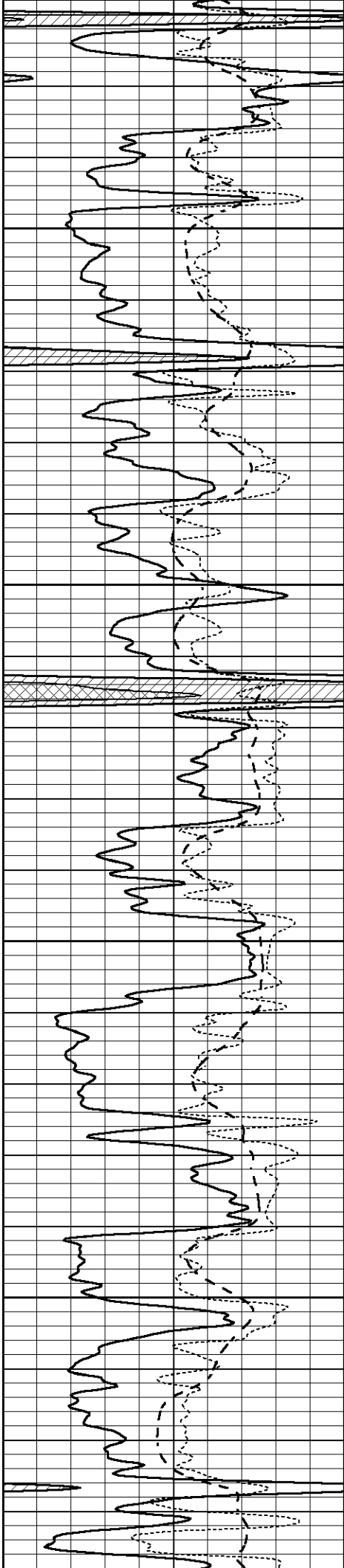
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3750

3800

3850



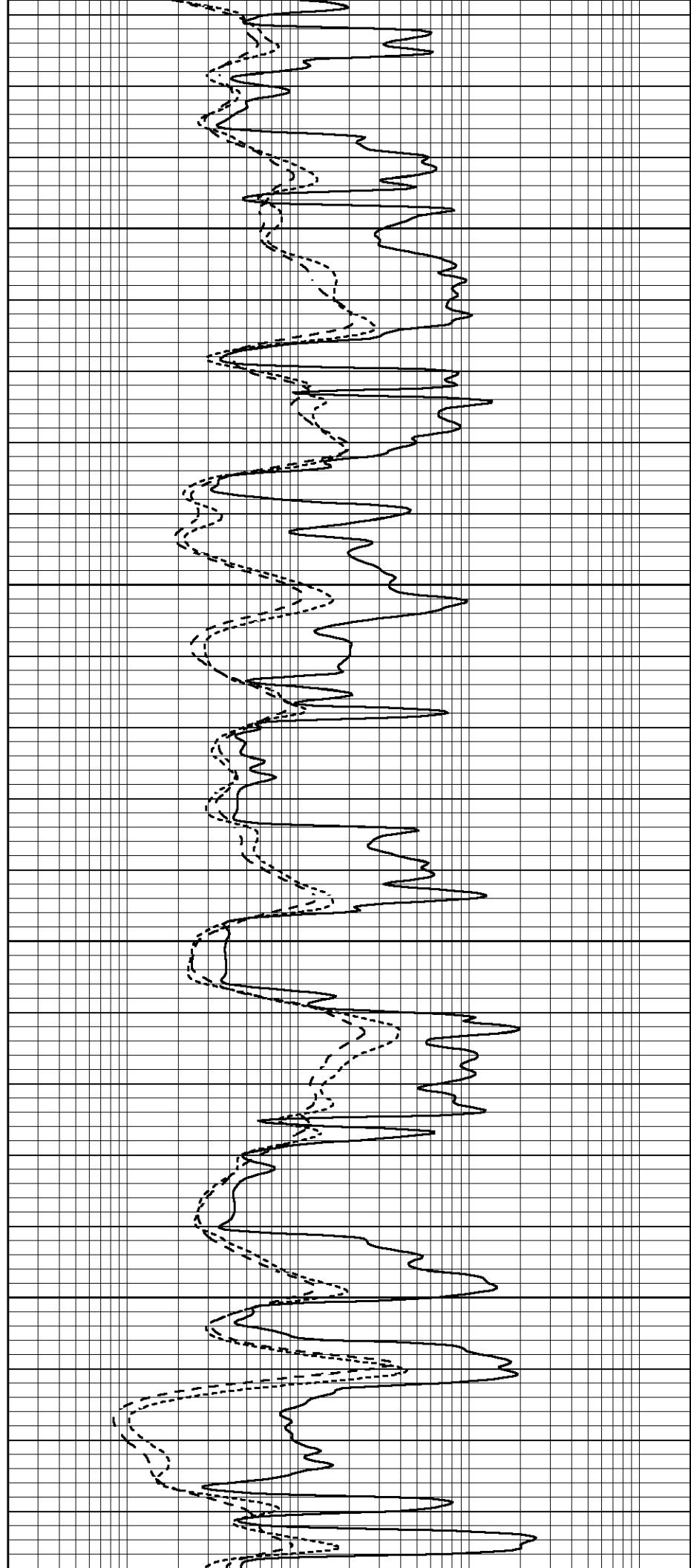


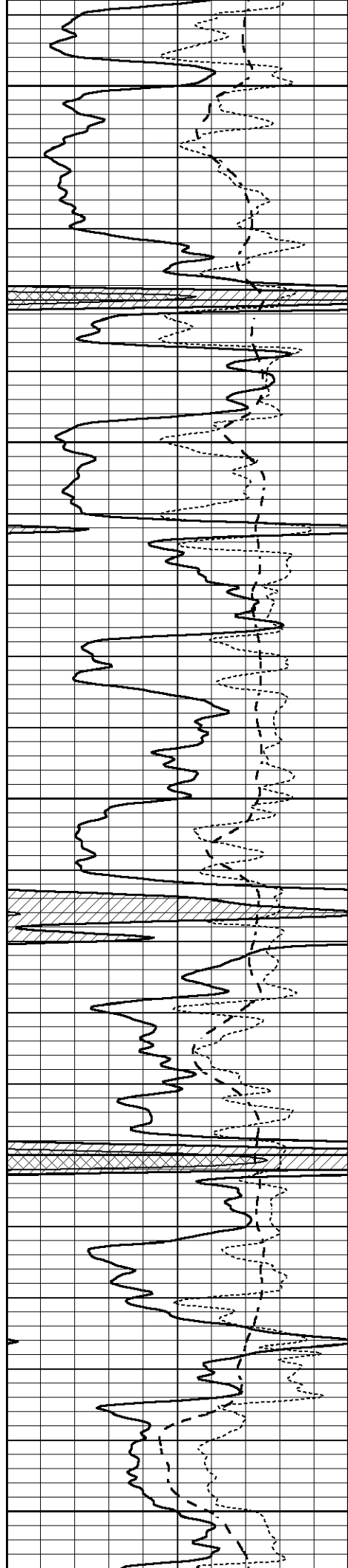
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3950

4000

4050





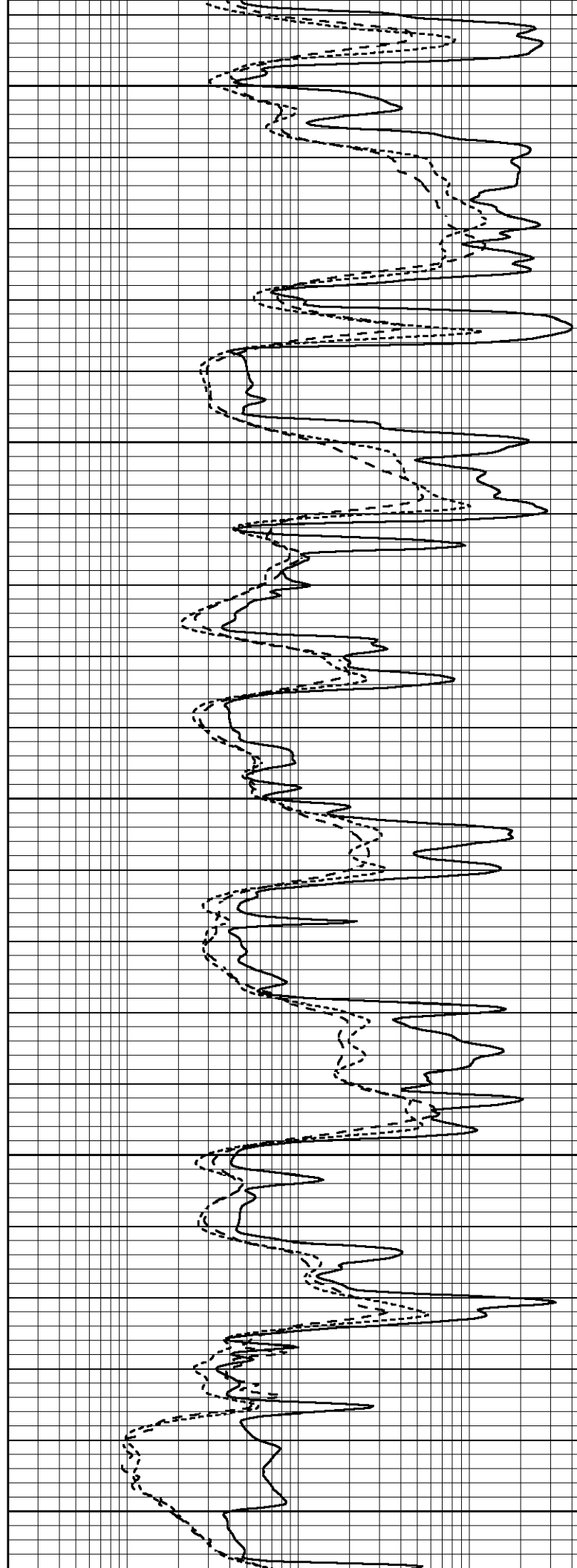
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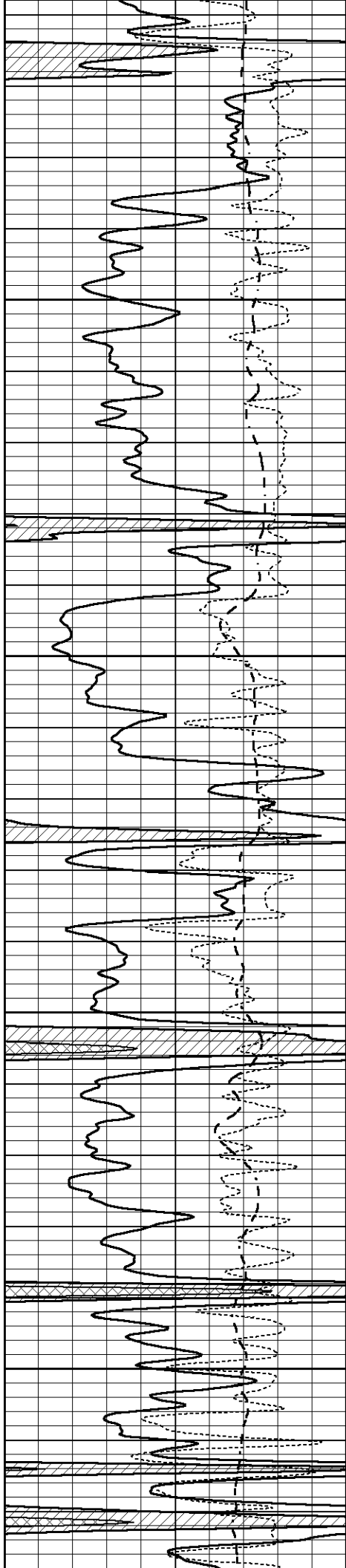
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4200

4250

4300



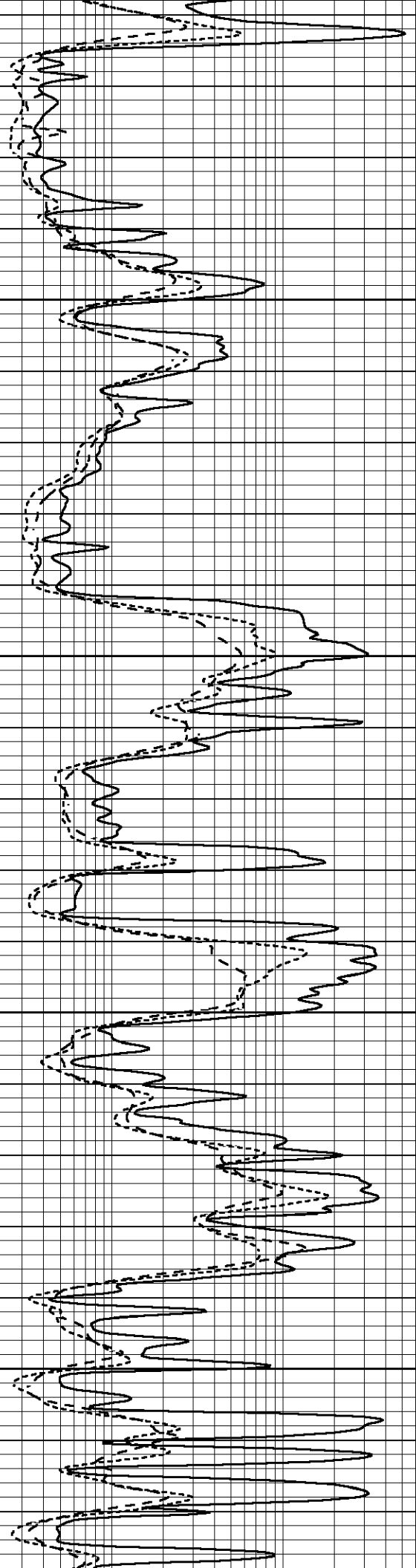


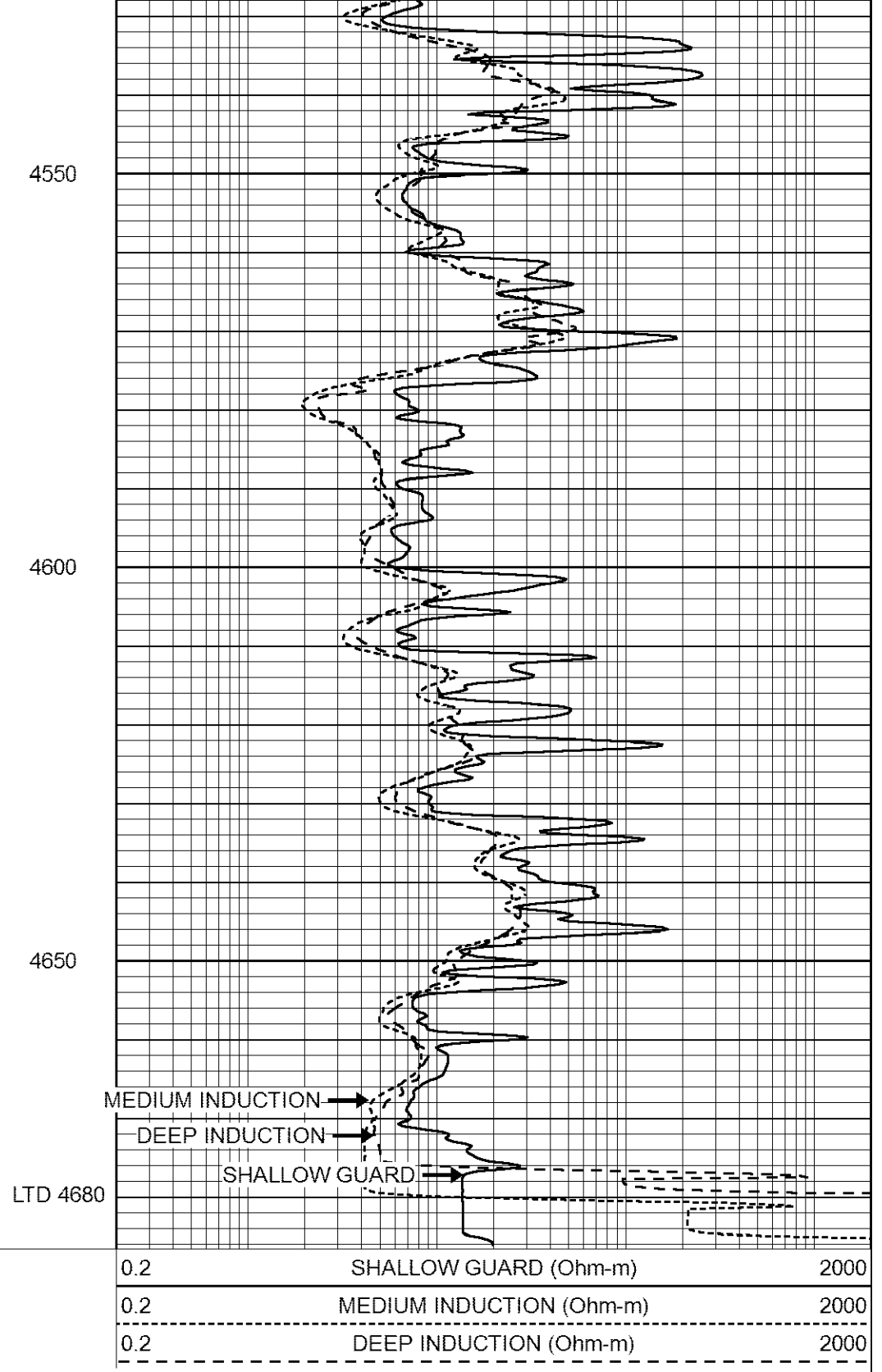
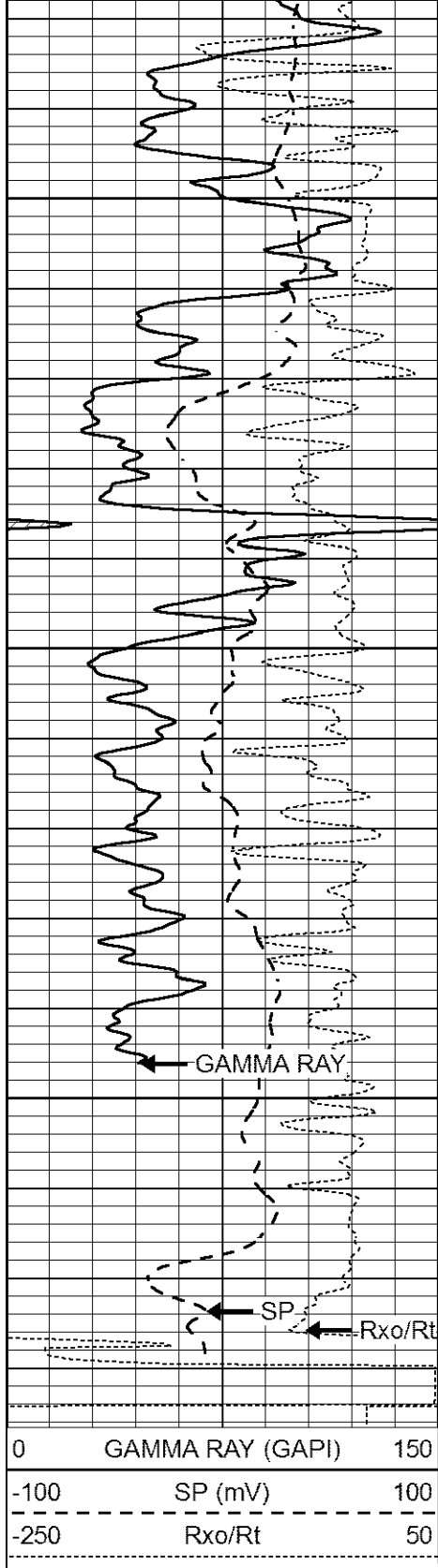
4350

4400

4450

4500



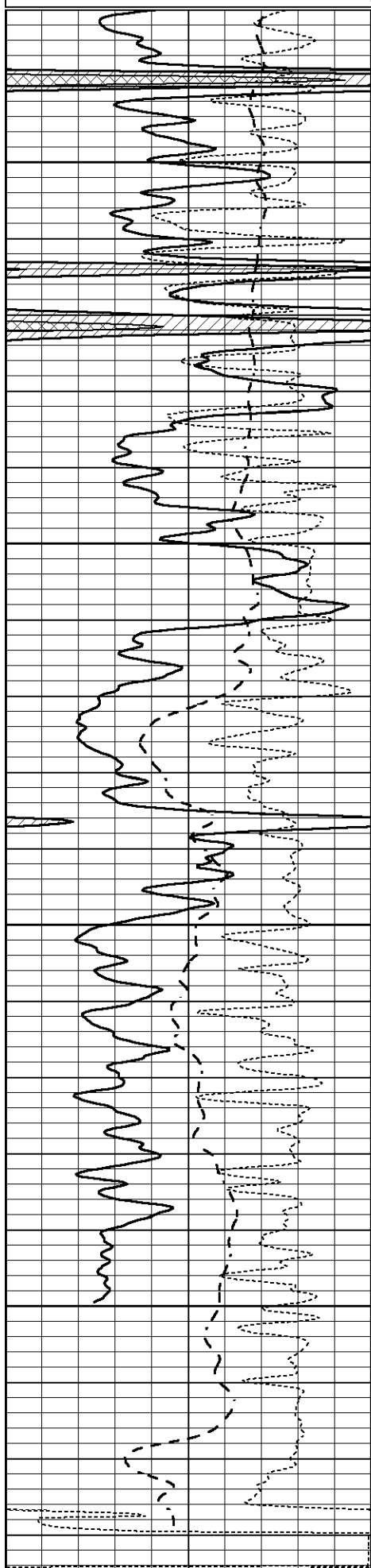


REPEAT SECTION

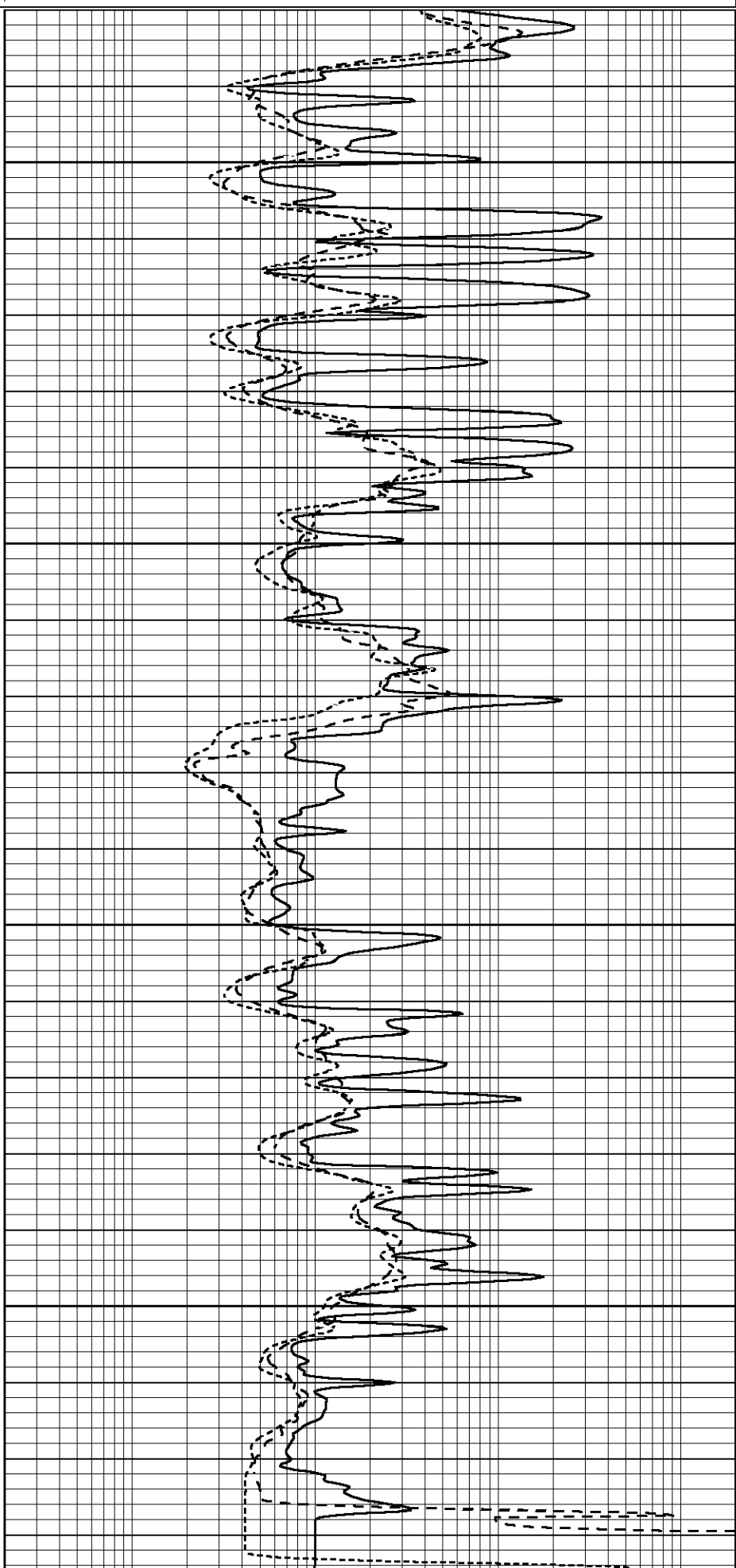
Database File 1145pe.db
 Dataset Pathname pass3.1
 Presentation Format _dil
 Dataset Creation Thu Jun 01 01:37:33 2017
 Charted by Depth in Feet scaled 1:240

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

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



4500
4550
4600
4650



0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000

Calibration Report

Database File 1145pe.db
 Dataset Pathname pass3.1
 Dataset Creation Thu Jun 01 01:37:33 2017

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Mon May 22 14:23:32 2017
 Downhole Cal Performed: Thu Mar 12 09:29:20 2015
 After Survey Verification Performed: Thu Mar 12 09:29:20 2015

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Litho Density Calibration Report

Serial: 140704
 Model: V4_10P
 Source Number: 74GBq-19

Master Calibration

Performed: Wed Feb 11 18:53:41 2015

	Background	Aluminum	Magnesium	
Window 1	613.01	6027.40	27508.60	cps
Window 2	48.21	1424.77	7132.66	cps
Window 4	266.48	1373.19	5767.15	cps

Window 5	622.07	10090.30	18937.90	cps	
Window 6	49.07	1682.84	3271.18	cps	
Window 8	298.04	3248.38	5980.58	cps	
Bulk Density	-	2.6020	1.6830	g/cc	
Pe	-	3.0000	2.5070	b/e	
LS Alpha:	: -1.8451	SS Alpha:	: -0.7542	LS CPE:	: 1.0882
LS Beta:	: 138648.8473	SS Beta:	: 21960.9250	SS CPE:	: 1.5181

Before Survey Background Counts Verification Performed: Wed Dec 31 18:00:00 1969

Window 1	0.00	cps
Window 2	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps
Window 8	0.00	cps

After Survey Background Counts Verification Performed: Wed Dec 31 18:00:00 1969

Window 1	0.00	cps
Window 2	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps
Window 8	0.00	cps

Lithodensity Caliper Calibration Performed: Wed Feb 11 18:53:41 2015

Results	Readings	References (in)		Gain	Offset
<u>Low</u>	<u>High</u>	<u>Low</u>	<u>High</u>	<u>Gain</u>	<u>Offset</u>
1107.5	7124.1	8.0	15.0	0.0	6.5

Before Survey Caliper Verification Performed:

	Reference	Reading
	_____	_____
Caliper (in)		

After Survey Caliper Verification Performed:

	Reference	Reading
	_____	_____
Caliper (in)		

Compensated Neutron Calibration Report

Serial Number: 080621PMC
Tool Model: NABORS

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:	Probe1	
Performed:	Mon May 22 14:24:46 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.3800	GAPI/cps