

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
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------

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
-------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Becker Oil Corporation
Well Name	FROMHOLTZ 1
Doc ID	1358441

Tops

Name	Top	Datum
Stone Corral Anhydrite	2446	(+447)
Heebner Shale	3903	(-1010)
Lansing Group	3940	(-1047)
Base Kansas City	4209	(-1316)
Pawnee	4332	(-1439)
Myrick Station	4369	(-1476)
Ft. Scott	4400	(-1507)
Cherokee Shale	4429	(-1536)
Base Penn. Ls.	4484	(-1591)
Miss.	4494	(-1601)
TD (Drlr.)	4560	(-1667)
TD (Log)	4562	(-1669)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Becker Oil Corporation
 PO Box 1150
 Ponka City, Ok 74602
 ATTN: Clyde Becker

36 10s 31w, Thomas, KS

Fromholtz #1

Job Ticket: 61324

DST#: 1

Test Start: 2017.03.03 @ 21:59:00

GENERAL INFORMATION:

Formation: **LKC - GHI**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:22:15

Time Test Ended: 05:52:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: **4050.00 ft (KB) To 4155.00 ft (KB) (TVD)**

Reference Elevations: 2893.00 ft (KB)

Total Depth: 4155.00 ft (KB) (TVD)

2888.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8845 Outside

Press@RunDepth: 294.49 psig @ 4056.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.03

End Date:

2017.03.04

Last Calib.: 2017.03.04

Start Time: 21:59:05

End Time:

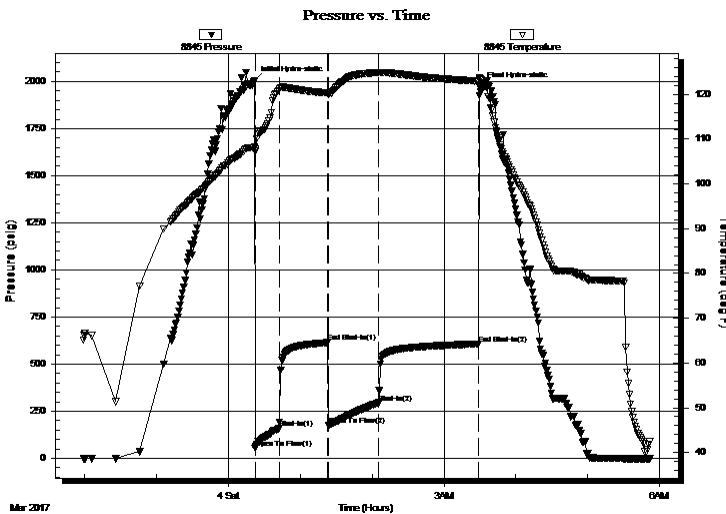
05:52:14

Time On Btm: 2017.03.04 @ 00:21:45

Time Off Btm: 2017.03.04 @ 03:30:00

TEST COMMENT: IF: BOB @ 5 min.
 IS: 1" return, receded tp 1/2".
 FF: BOB @ 6 min.
 FS: 7" return, receded to 5".

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2001.97	108.17	Initial Hydro-static
1	53.75	107.33	Open To Flow (1)
21	159.39	121.13	Shut-In(1)
62	614.42	120.28	End Shut-In(1)
62	173.48	120.05	Open To Flow (2)
104	294.49	124.81	Shut-In(2)
188	607.66	122.91	End Shut-In(2)
189	1973.77	123.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
520.00	gmcw 5g 15m 80w	6.21
100.00	gow cm 25g 10o 10w 55m	1.40
100.00	go 30g 70o	1.40
0.00	660 GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Becker Oil Corporation

36 10s 31w, Thomas, KS

PO Box 1150
Ponca City, Ok 74602

Fromholtz #1

Job Ticket: 61324

DST#: 1

ATTN: Clyde Becker

Test Start: 2017.03.03 @ 21:59:00

GENERAL INFORMATION:

Formation: **LKC - GHI**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:22:15

Time Test Ended: 05:52:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: **4050.00 ft (KB) To 4155.00 ft (KB) (TVD)**

Reference Elevations: 2893.00 ft (KB)

Total Depth: 4155.00 ft (KB) (TVD)

2888.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: **8365** Inside

Press@RunDepth: psig @ 4056.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.03

End Date:

2017.03.04

Last Calib.:

2017.03.04

Start Time:

21:59:05

End Time:

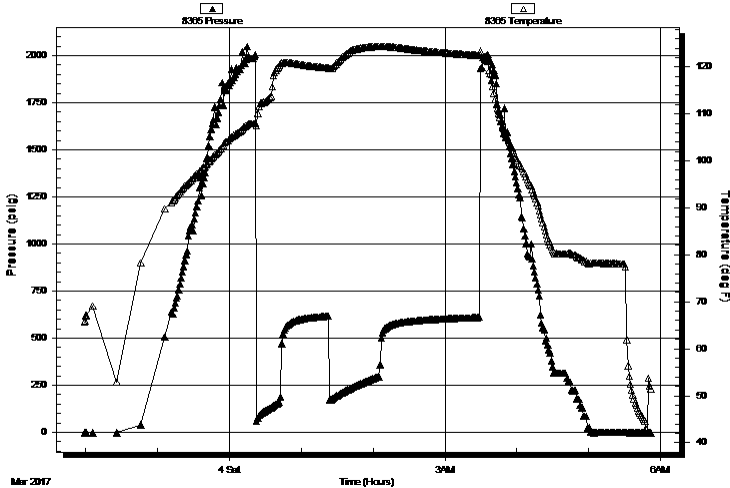
05:52:14

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 5 min.
IS: 1" return, receded tp 1/2".
FF: BOB @ 6 min.
FS: 7" return, receded to 5".

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
520.00	gmcw 5g 15m 80w	6.21
100.00	gow cm 25g 10o 10w 55m	1.40
100.00	go 30g 70o	1.40
0.00	660 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Becker Oil Corporation

36 10s 31w, Thomas, KS

PO Box 1150
Ponka City, Ok 74602

Fromholtz #1

Job Ticket: 61324

DST#: 1

ATTN: Clyde Becker

Test Start: 2017.03.03 @ 21:59:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

32000 ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
520.00	gmcw 5g 15m 80w	6.210
100.00	gow cm 25g 10o 10w 55m	1.403
100.00	go 30g 70o	1.403
0.00	660 GIP	0.000

Total Length: 720.00 ft Total Volume: 9.016 bbl

Num Fluid Samples: 0

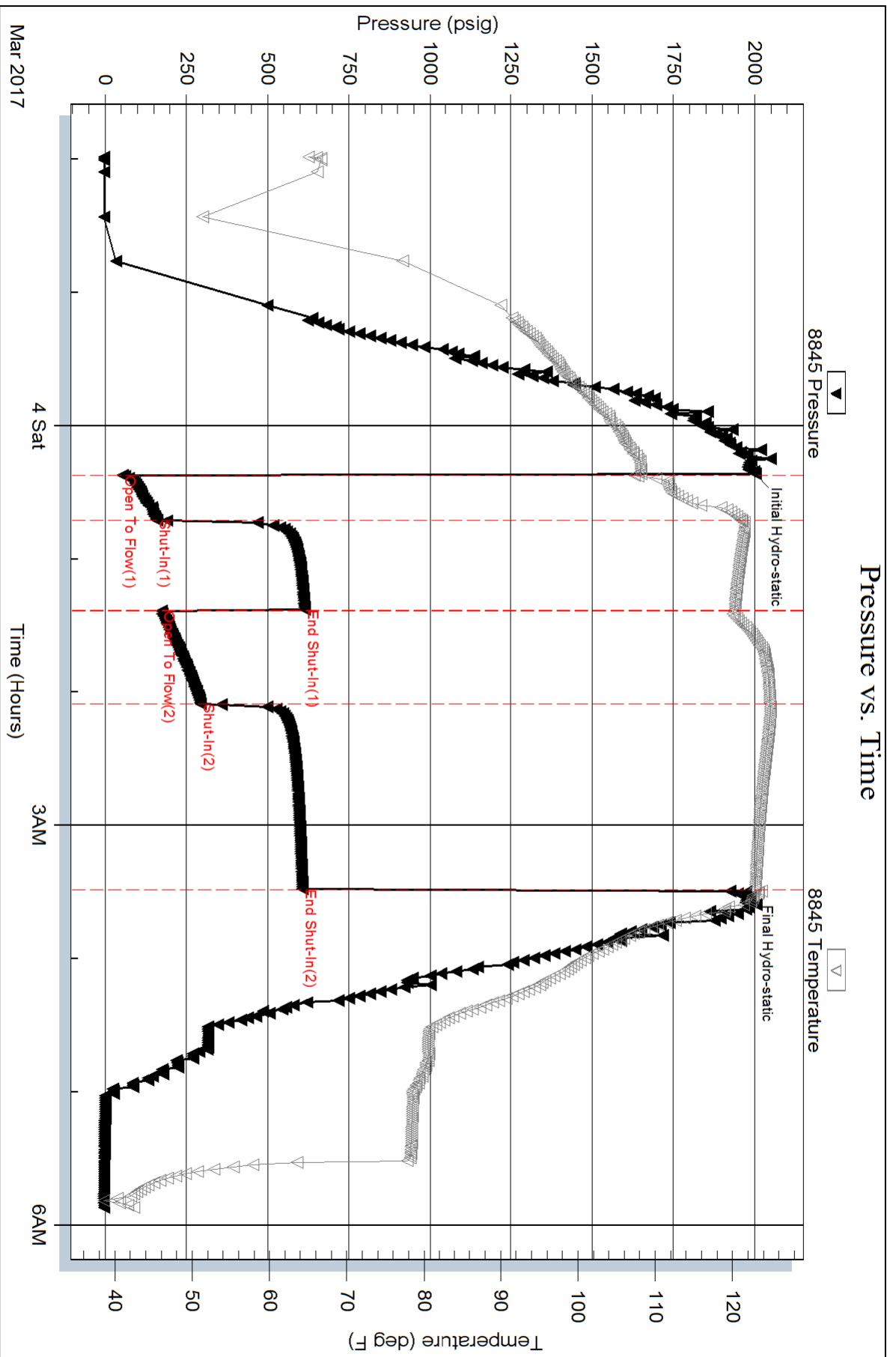
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .379 @ 41f = 32000ppm



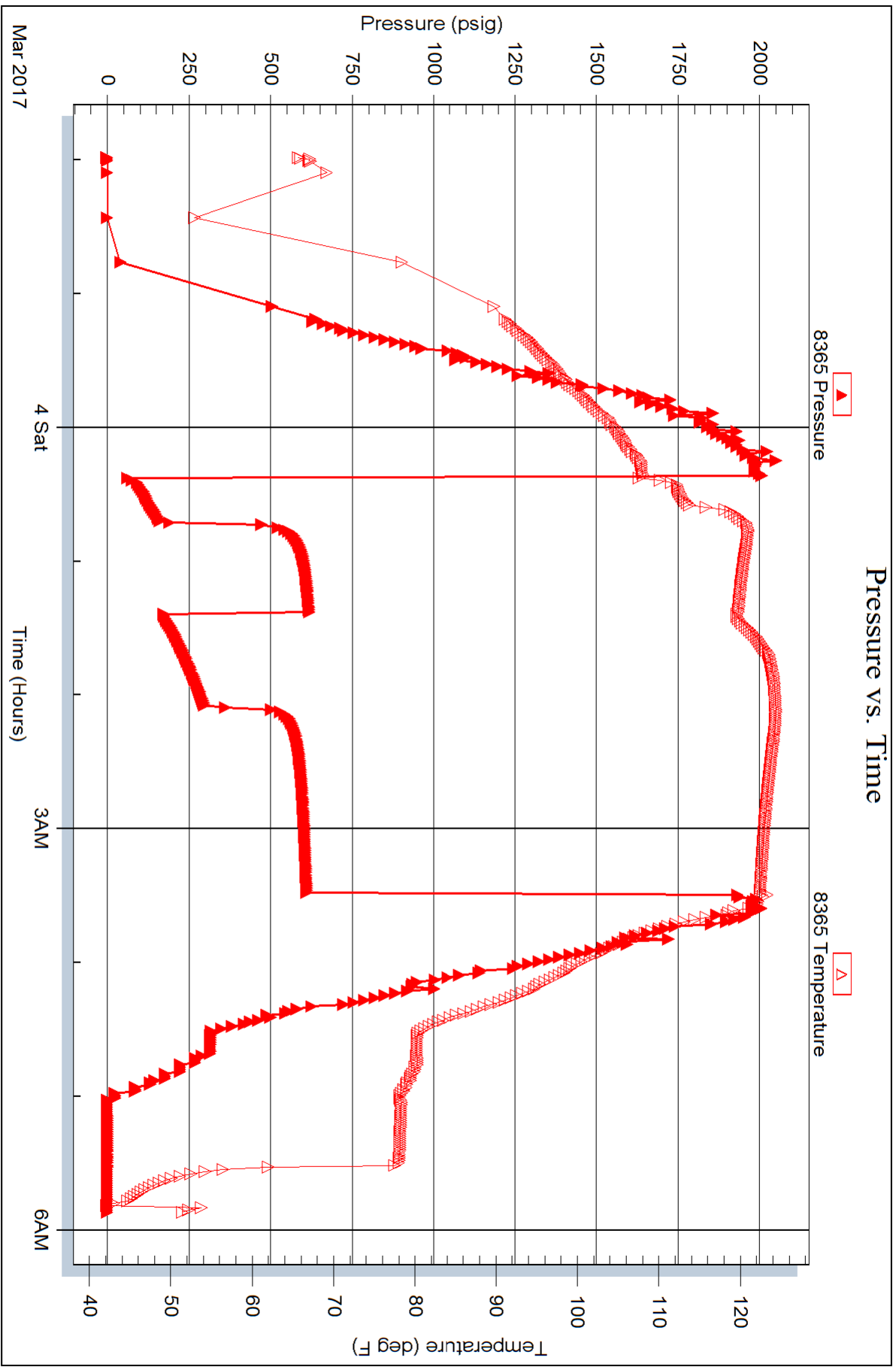
Serial #: 8365

Inside

Becker Oil Corporation

Frontholz #1

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Becker Oil Corporation
 PO Box 1150
 Ponka City, Ok 74602
 ATTN: Clyde Becker

36 10s 31w, Thomas, KS

Fromholtz #1

Job Ticket: 61325

DST#: 2

Test Start: 2017.03.04 @ 23:53:00

GENERAL INFORMATION:

Formation: **Pawnee - Myric Stati**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:22:30

Time Test Ended: 07:17:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4305.00 ft (KB) To 4395.00 ft (KB) (TVD)

Reference Elevations: 2893.00 ft (KB)

Total Depth: 4395.00 ft (KB) (TVD)

2888.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8845 Outside

Press@RunDepth: 130.25 psig @ 4306.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.03.04

End Date:

2017.03.05

Last Calib.: 2017.03.05

Start Time: 23:53:05

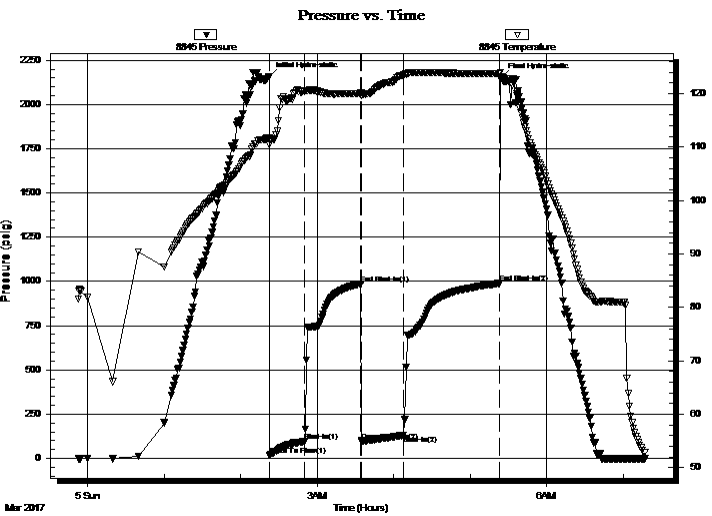
End Time:

07:17:29

Time On Btm: 2017.03.05 @ 02:22:15

Time Off Btm: 2017.03.05 @ 05:24:30

TEST COMMENT: IF: 4" blow.
 IS: No return.
 FF: 4" blow.
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.20	111.72	Initial Hydro-static
1	17.85	110.44	Open To Flow (1)
28	94.34	120.53	Shut-In(1)
72	986.05	120.09	End Shut-In(1)
73	94.55	119.88	Open To Flow (2)
106	130.25	123.52	Shut-In(2)
181	988.75	123.70	End Shut-In(2)
183	2151.39	123.16	Final Hydro-static

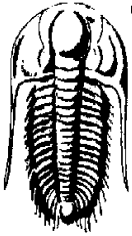
Recovery

Length (ft)	Description	Volume (bbl)
250.00	mcw 40m 60w (oil spots)	2.42

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Becker Oil Corporation
PO Box 1150
Ponka City, Ok 74602

ATTN: Clyde Becker

36 10s 31w, Thomas, KS
Fromholtz #1
Job Ticket: 61325 **DST#: 2**
Test Start: 2017.03.04 @ 23:53:00

GENERAL INFORMATION:

Formation: **Pawnee - Myric Stati**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 02:22:30 Tester: Bradley Walter
Time Test Ended: 07:17:30 Unit No: 78

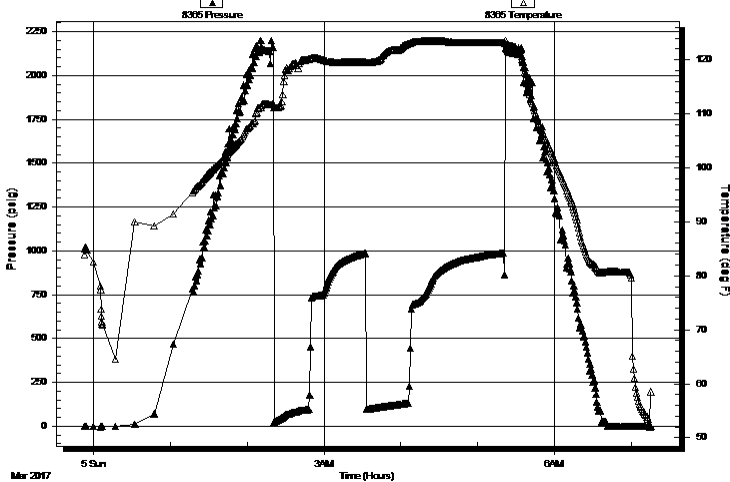
Interval: 4305.00 ft (KB) To 4395.00 ft (KB) (TVD) Reference Elevations: 2893.00 ft (KB)
Total Depth: 4395.00 ft (KB) (TVD) 2888.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8365 Inside

Press@RunDepth: psig @ 4306.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.03.04 End Date: 2017.03.05 Last Calib.: 2017.03.05
Start Time: 23:53:05 End Time: 07:15:32 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 4" blow.
IS: No return.
FF: 4" blow.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
250.00	mcw 40m 60w (oil spots)	2.42

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Becker Oil Corporation

36 10s 31w, Thomas, KS

PO Box 1150
Ponka City, Ok 74602

Fromholtz #1

Job Ticket: 61325

DST#: 2

ATTN: Clyde Becker

Test Start: 2017.03.04 @ 23:53:00

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:

39000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	mcw 40m 60w (oil spots)	2.423

Total Length: 250.00 ft Total Volume: 2.423 bbl

Num Fluid Samples: 0

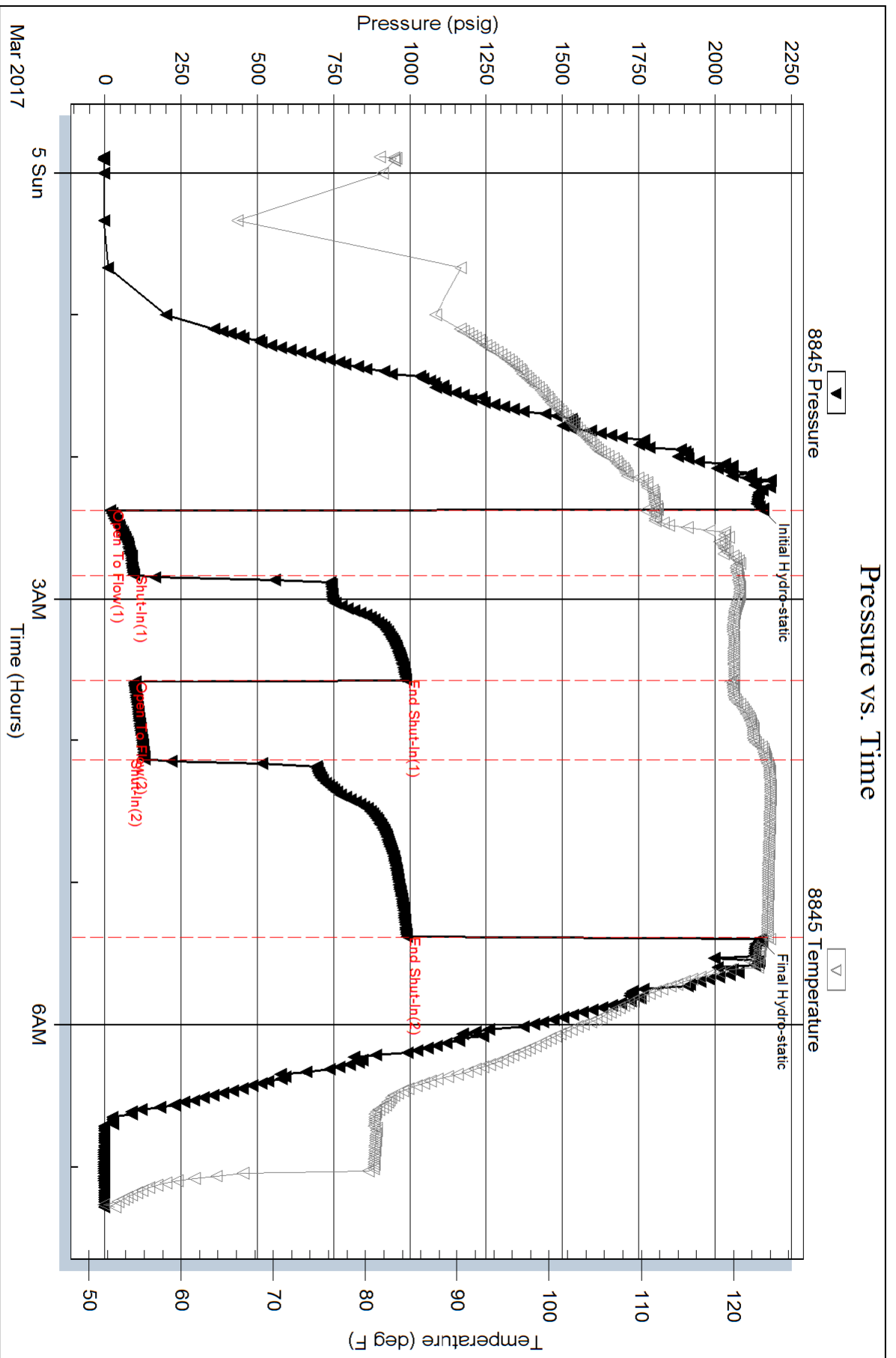
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .325 @ 42F = 39000ppm





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Becker Oil Corporation
 PO Box 1150
 Ponka City, Ok 74602
 ATTN: Clyde Becker

36 10s 31w, Thomas, KS

Fromholtz #1

Job Ticket: 63751

DST#: 3

Test Start: 2017.03.05 @ 18:47:00

GENERAL INFORMATION:

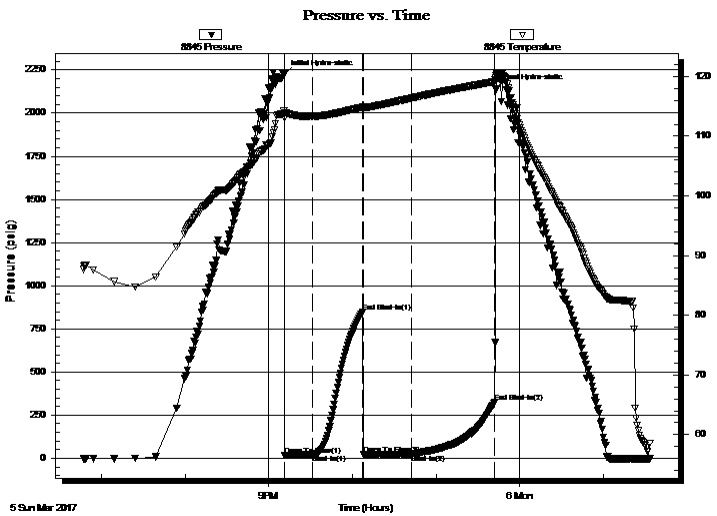
Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 21:11:30
 Tester: Bradley Walter
 Time Test Ended: 01:33:15
 Unit No: 78
 Interval: **4475.00 ft (KB) To 4520.00 ft (KB) (TVD)**
 Reference Elevations: 2893.00 ft (KB)
 Total Depth: 4520.00 ft (KB) (TVD)
 2888.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

Serial #: 8845 Outside

Press@RunDepth: 25.46 psig @ 4476.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.05 End Date: 2017.03.06 Last Calib.: 2017.03.06
 Start Time: 18:47:05 End Time: 01:33:14 Time On Btm: 2017.03.05 @ 21:11:00
 Time Off Btm: 2017.03.05 @ 23:42:45

TEST COMMENT: IF: Surface blow .
 IS: No return.
 FF: Weak surface blow , died @ 15 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2223.31	114.27	Initial Hydro-static
1	17.78	113.05	Open To Flow (1)
21	20.04	113.32	Shut-In(1)
56	845.39	114.85	End Shut-In(1)
57	21.63	114.74	Open To Flow (2)
92	25.46	116.37	Shut-In(2)
151	324.44	119.13	End Shut-In(2)
152	2142.12	119.83	Final Hydro-static

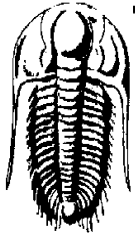
Recovery

Length (ft)	Description	Volume (bbl)
20.00	socm 2o 98m	0.10

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Becker Oil Corporation

36 10s 31w, Thomas, KS

PO Box 1150
Ponka City, Ok 74602

Fromholtz #1

Job Ticket: 63751

DST#: 3

ATTN: Clyde Becker

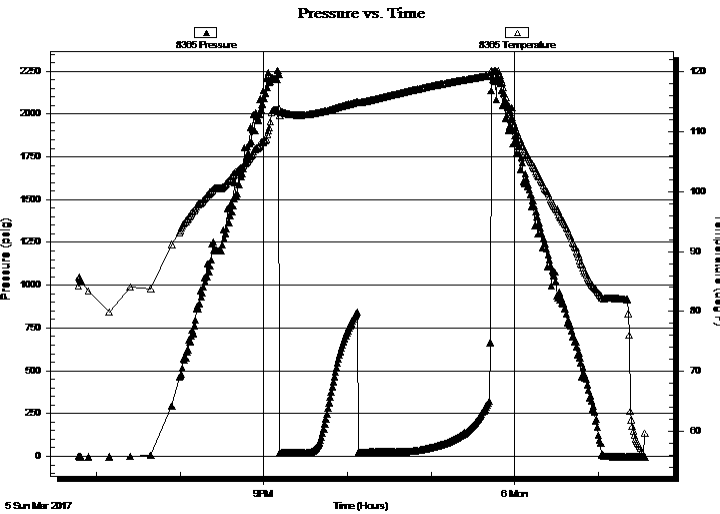
Test Start: 2017.03.05 @ 18:47:00

GENERAL INFORMATION:

Formation: **Cherokee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 21:11:30
 Tester: Bradley Walter
 Time Test Ended: 01:33:15
 Unit No: 78
 Interval: **4475.00 ft (KB) To 4520.00 ft (KB) (TVD)**
 Reference Elevations: 2893.00 ft (KB)
 Total Depth: 4520.00 ft (KB) (TVD)
 2888.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 5.00 ft

Serial #: 8365 Inside
 Press@RunDepth: psig @ 4476.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.03.05 End Date: 2017.03.06 Last Calib.: 2017.03.06
 Start Time: 18:47:05 End Time: 01:33:14 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Surface blow .
 IS: No return.
 FF: Weak surface blow , died @ 15 min.
 FS: No return.



PRESSURE SUMMARY

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

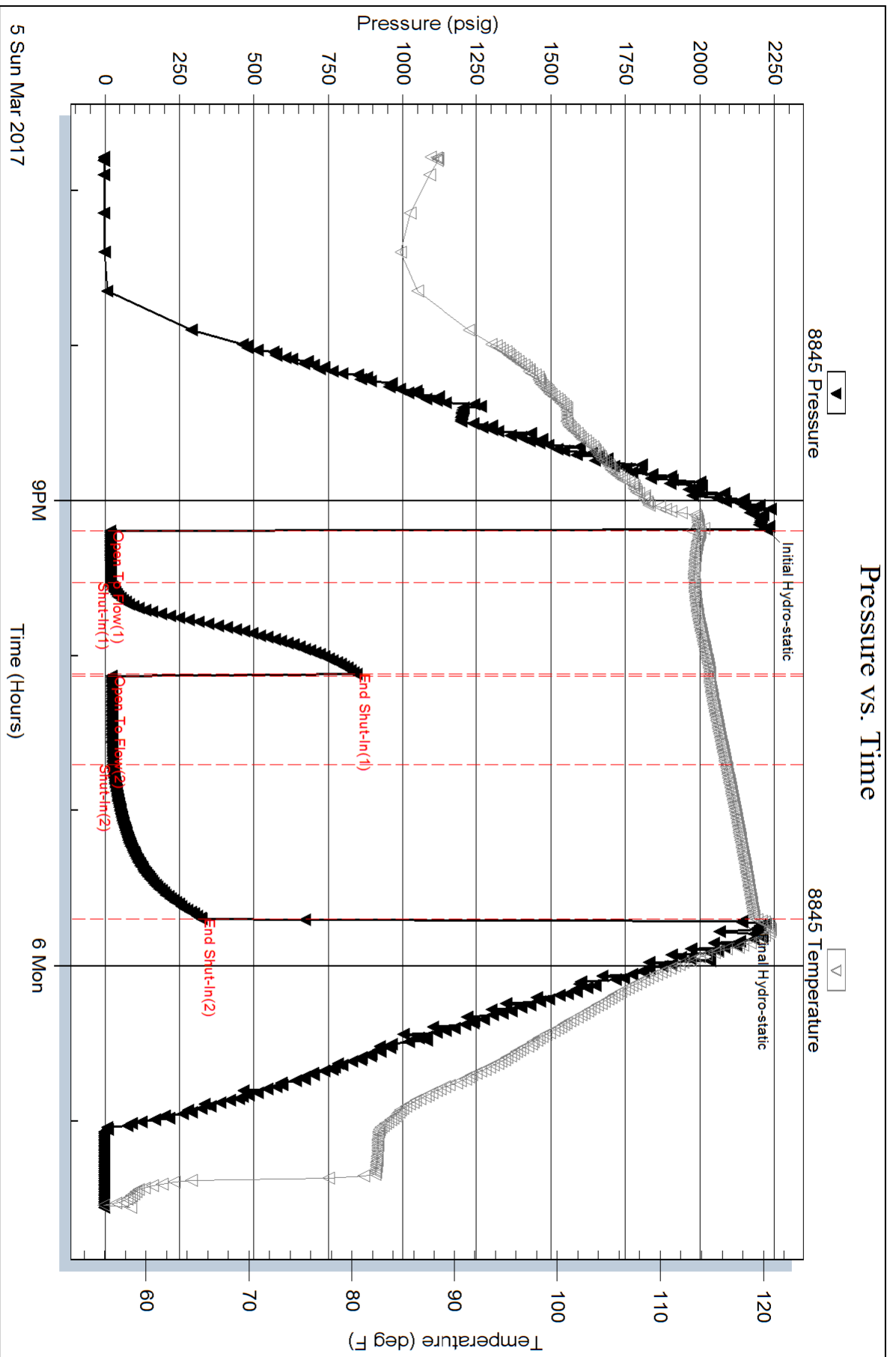
Recovery

Length (ft)	Description	Volume (bbl)
20.00	socm 2o 98m	0.10

* Recovery from multiple tests

Gas Rates

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



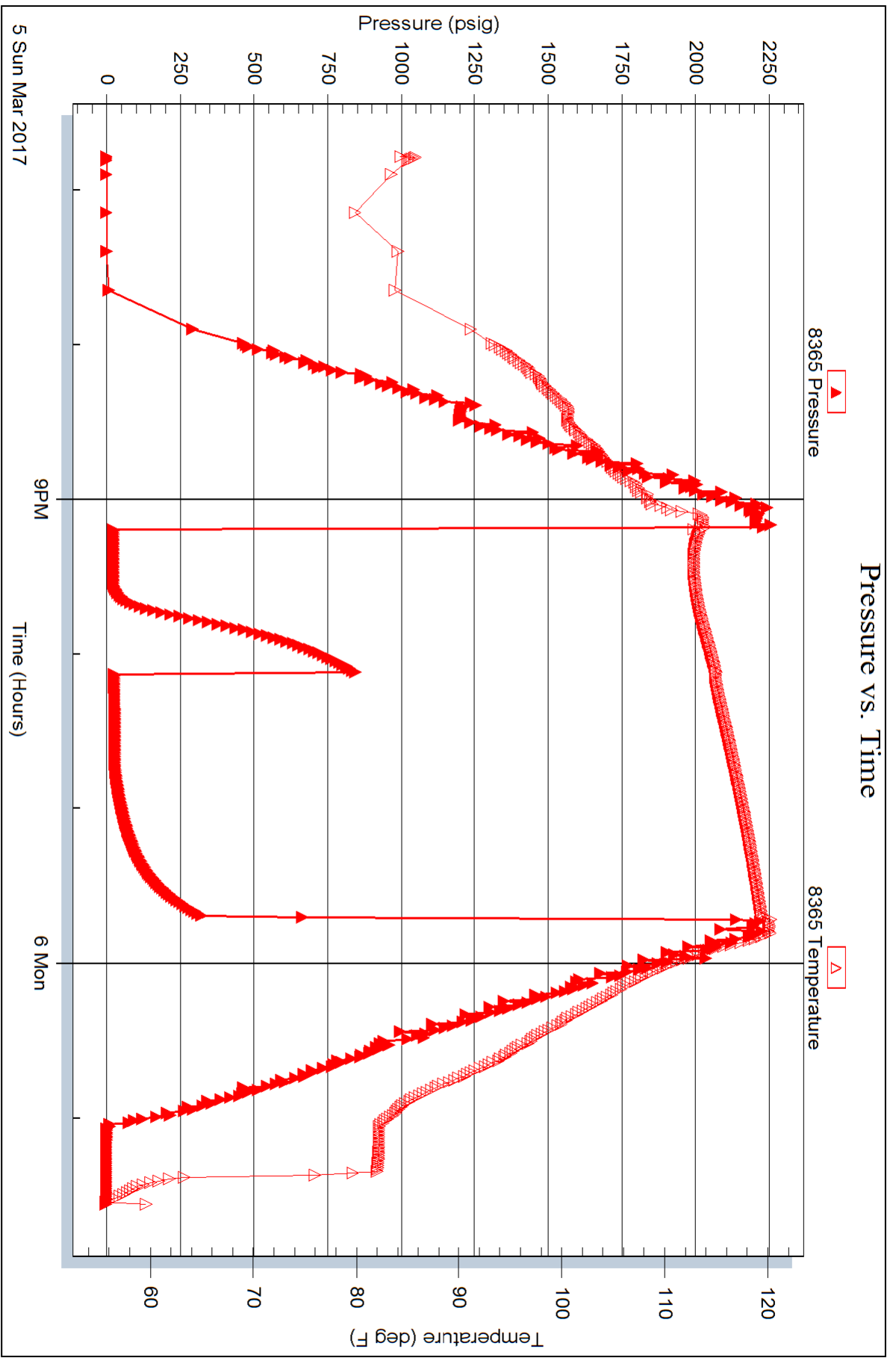
Serial #: 8365

Inside

Becker Oil Corporation

Frontholz #1

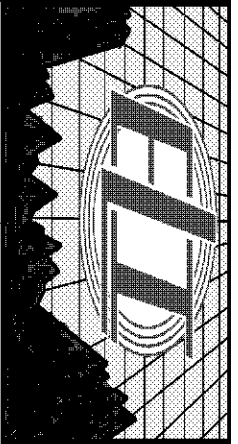
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 63751

Printed: 2017.03.06 @ 07:18:52



**DUAL
INDUCTION
LOG**

Company **BECKER OIL CORPORATION**
 Well **#1 FROMHOLTZ**
 Field
 County **THOMAS** State **KANSAS**

Location: **API # : 15-193-20989-0000**
2306' FSL & 990' FEL
 SEC 36 TWP 10S RGE 31W
 Permanent Datum **GROUND LEVEL Elevation 2888**
 Log Measured From **KELLY BUSHING 5' A.G.L**
 Drilling Measured From **KELLY BUSHING**
 Other Services **CDL/CN/PE**
 Elevation **K.B. 2893
D.F. 2891
G.L. 2888**

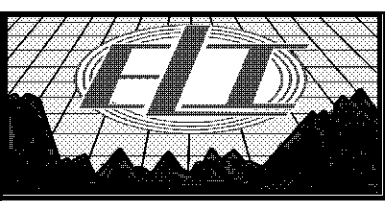
Date	3/6/17
Run Number	ONE
Depth Driller	4560
Depth Logger	4562
Bottom Logged Interval	4560
Top Log Interval	00
Casing Driller	8 5/8" @ 241
Casing Logger	241
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.4/53
PH / Fluid Loss	10.5/8.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.3 @ 77F
Rmt @ Meas. Temp	.97 @ 77F
Rmc @ Meas. Temp	1.5 @ 77F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.82 @ 121F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	121F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	JASON CAPPELLUCCI
Witnessed By	CLYDE BECKER

<<< Fold Here >>>

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

Comments

THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
 DIRECTIONS
 I 70 & CAMPUS EXIT ABOUT 2 NORTH TO THE CURVE (RD. GO EE) - 1 EAST - NORTH INTO

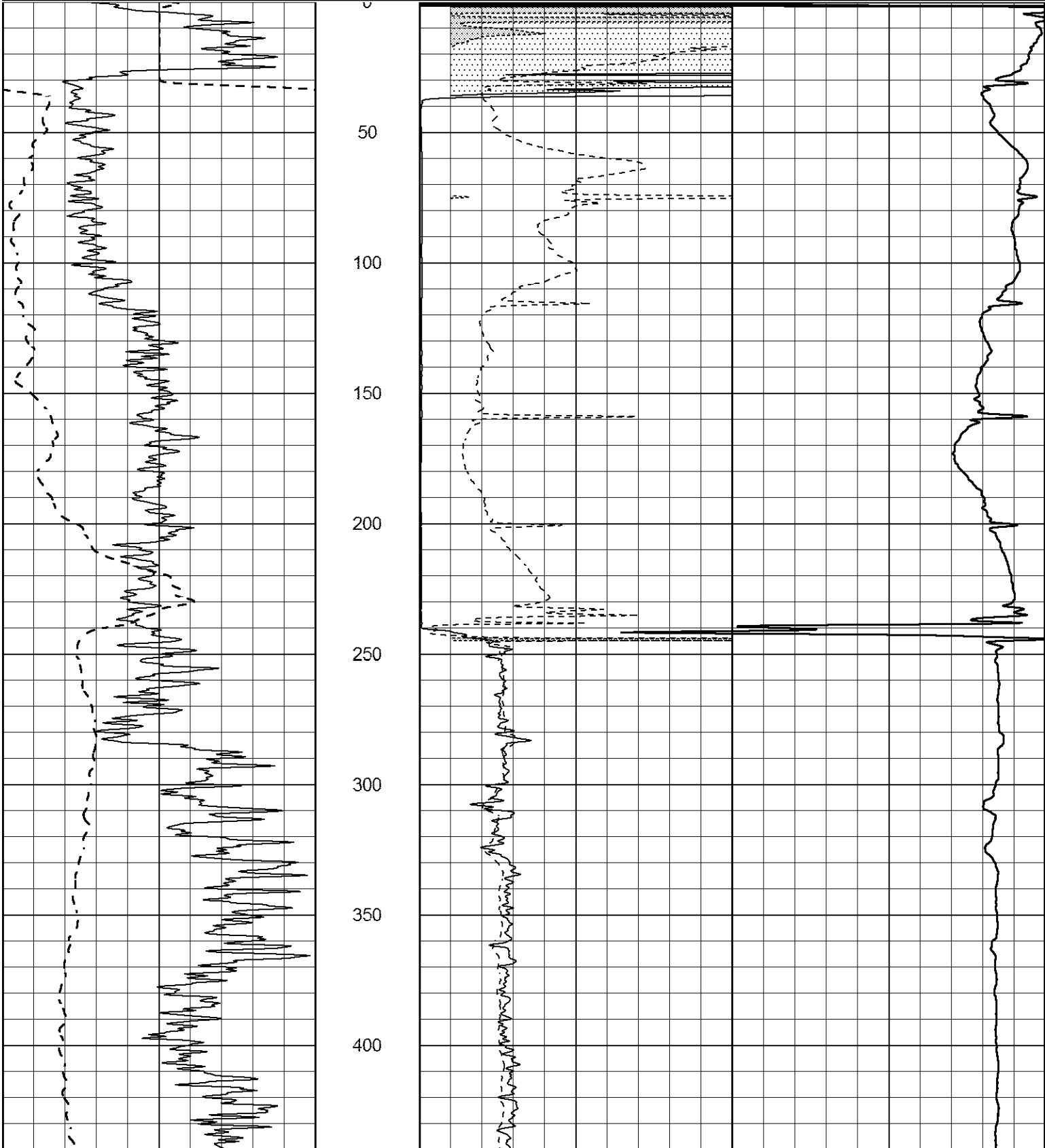


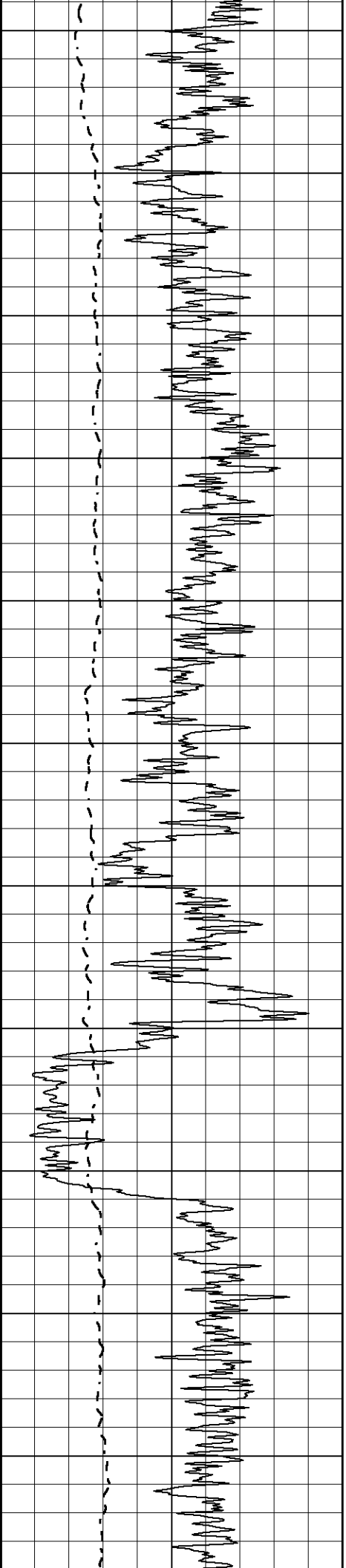
MAIN SECTION

Database File 1123pe8.db
 Dataset Pathname pass3.3
 Presentation Format _dil2
 Dataset Creation Mon Mar 06 12:35:07 2017
 Charted by Depth in Feet scaled 1:600

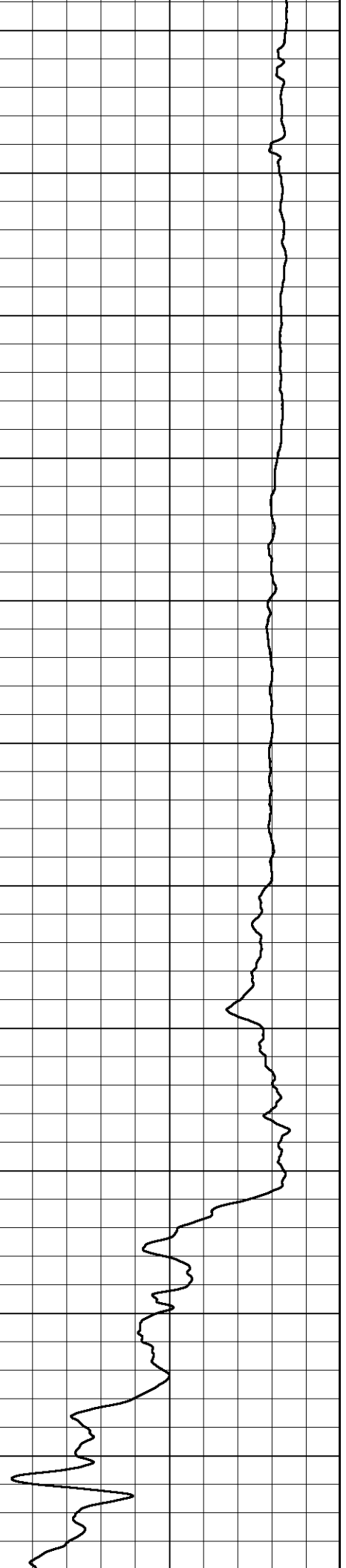
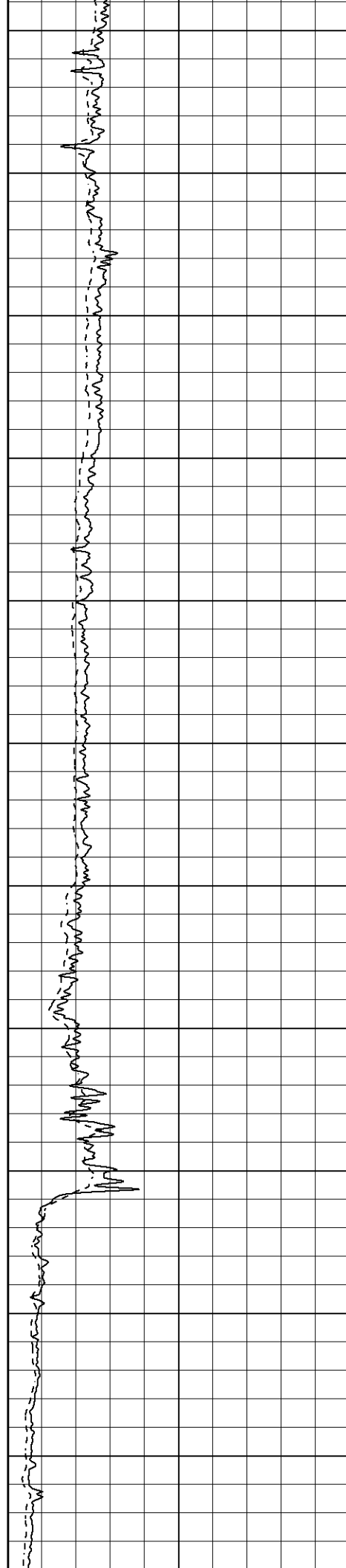
0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

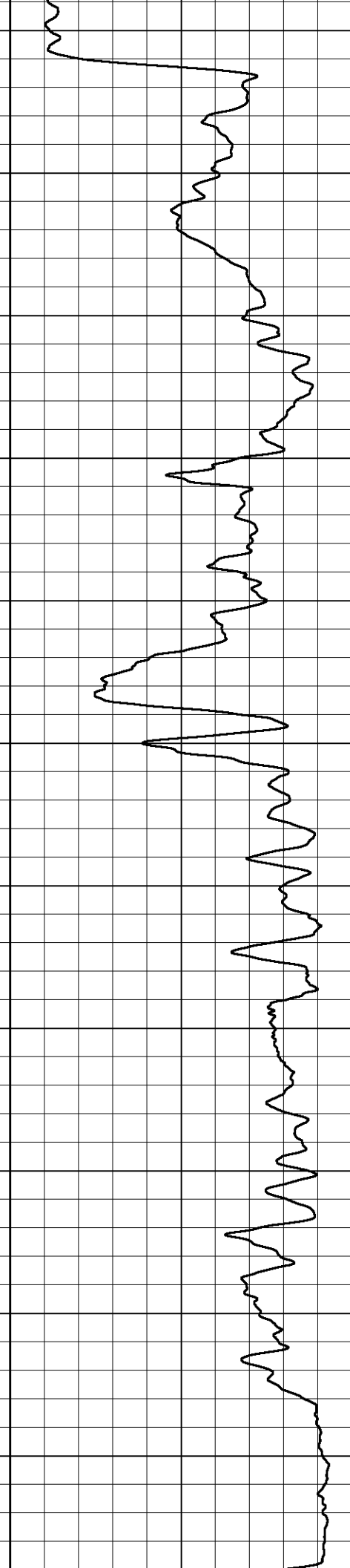
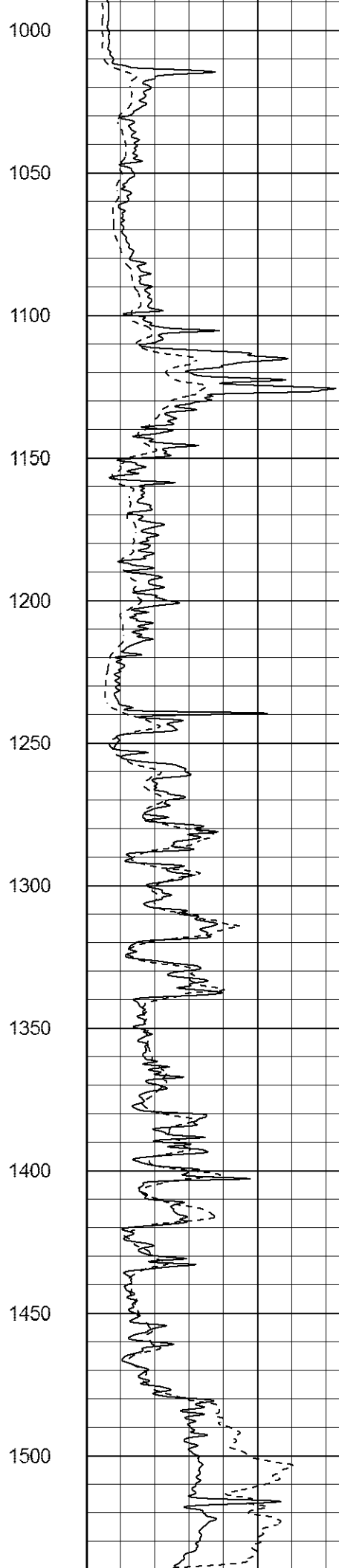
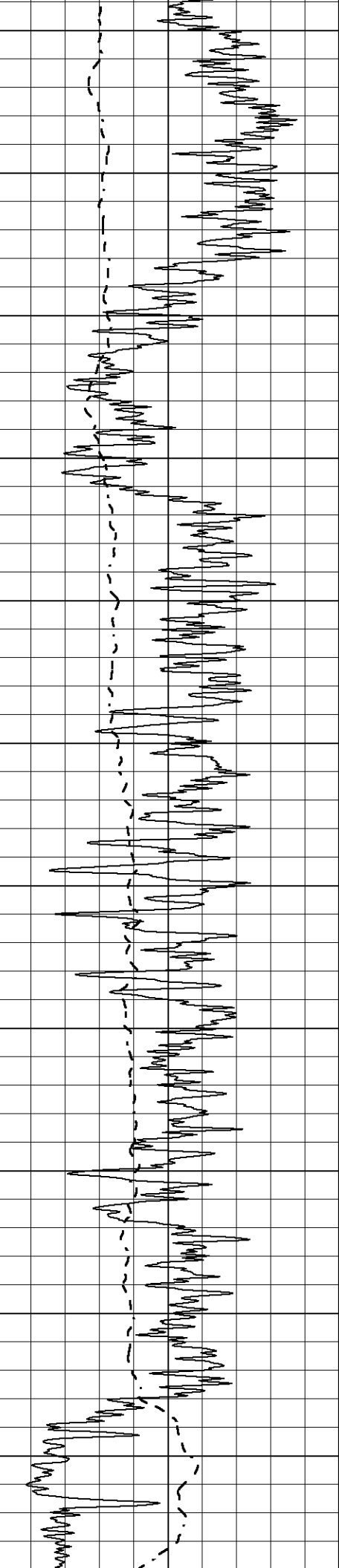
1000	CILD (mmho/m)	0
0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

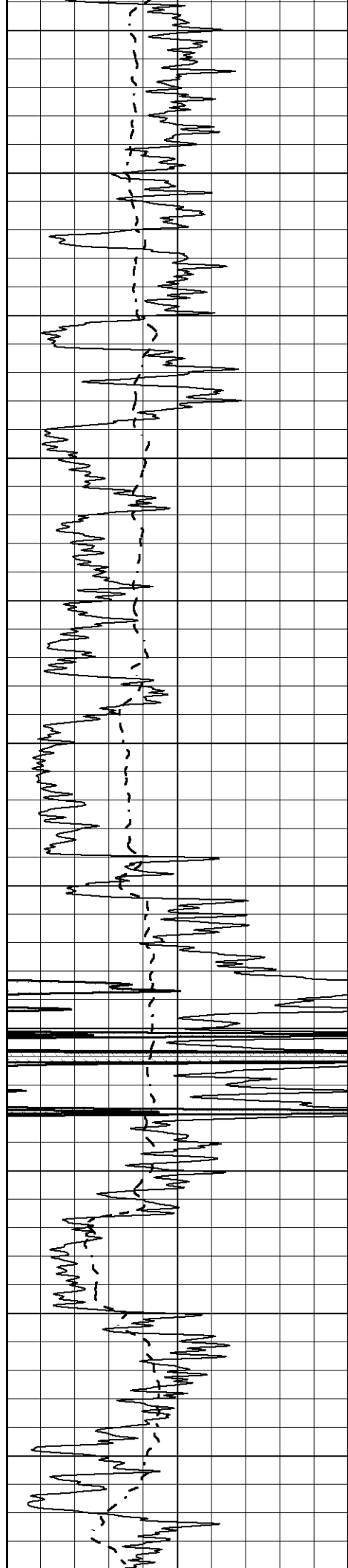




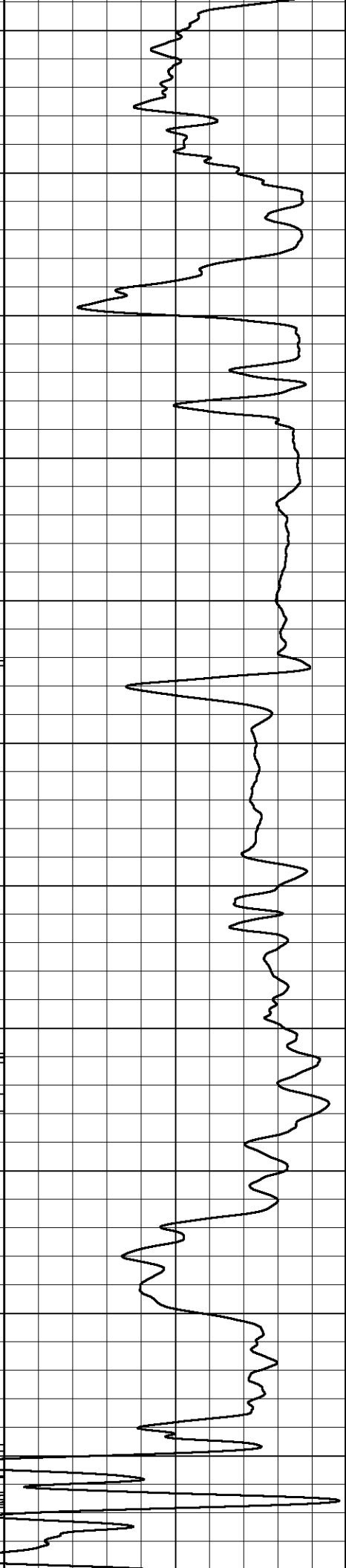
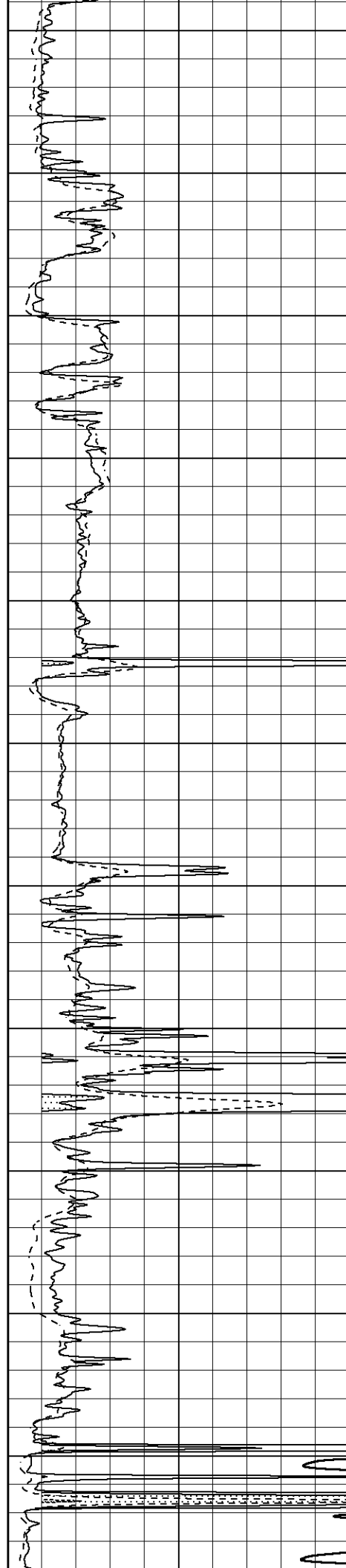
450
500
550
600
650
700
750
800
850
900
950

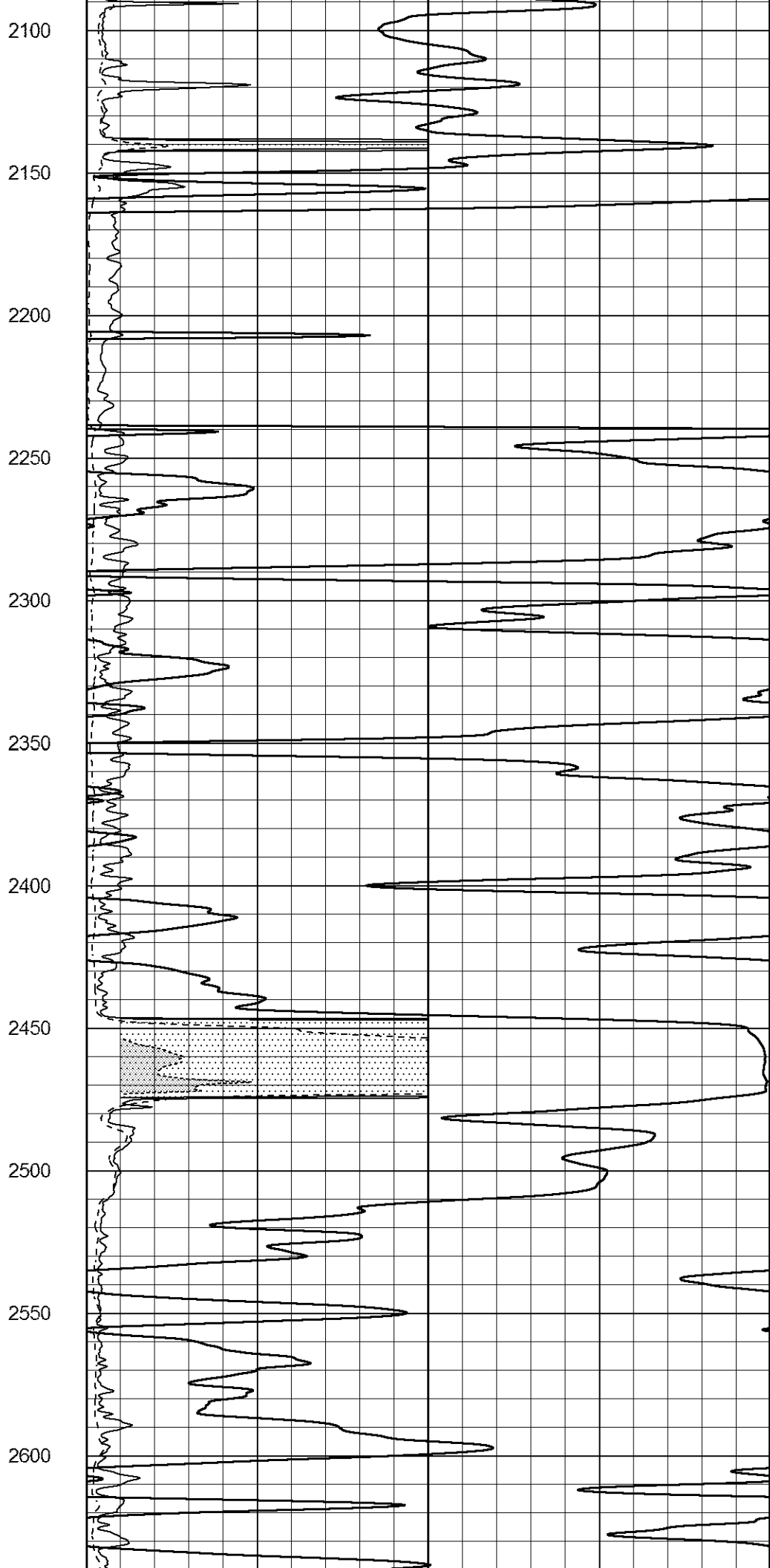
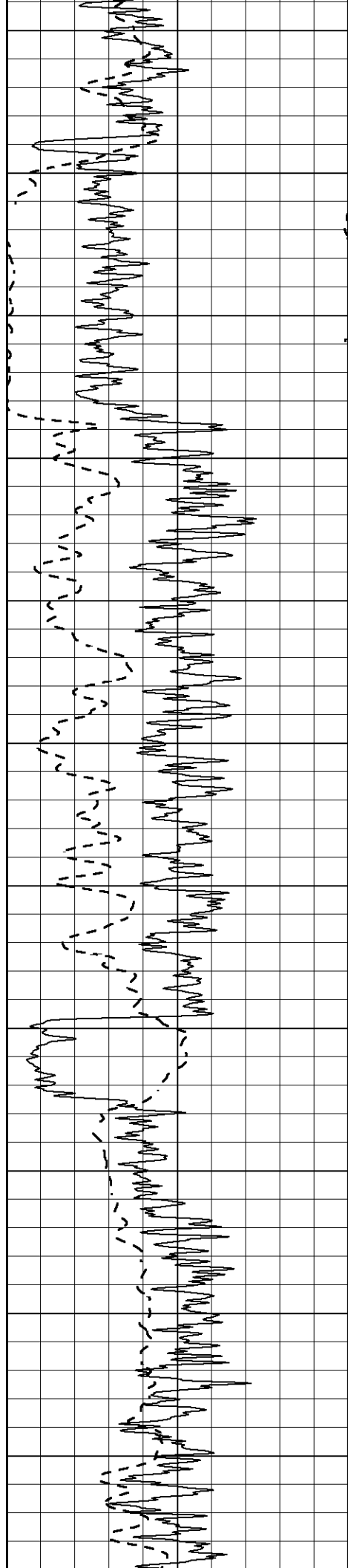




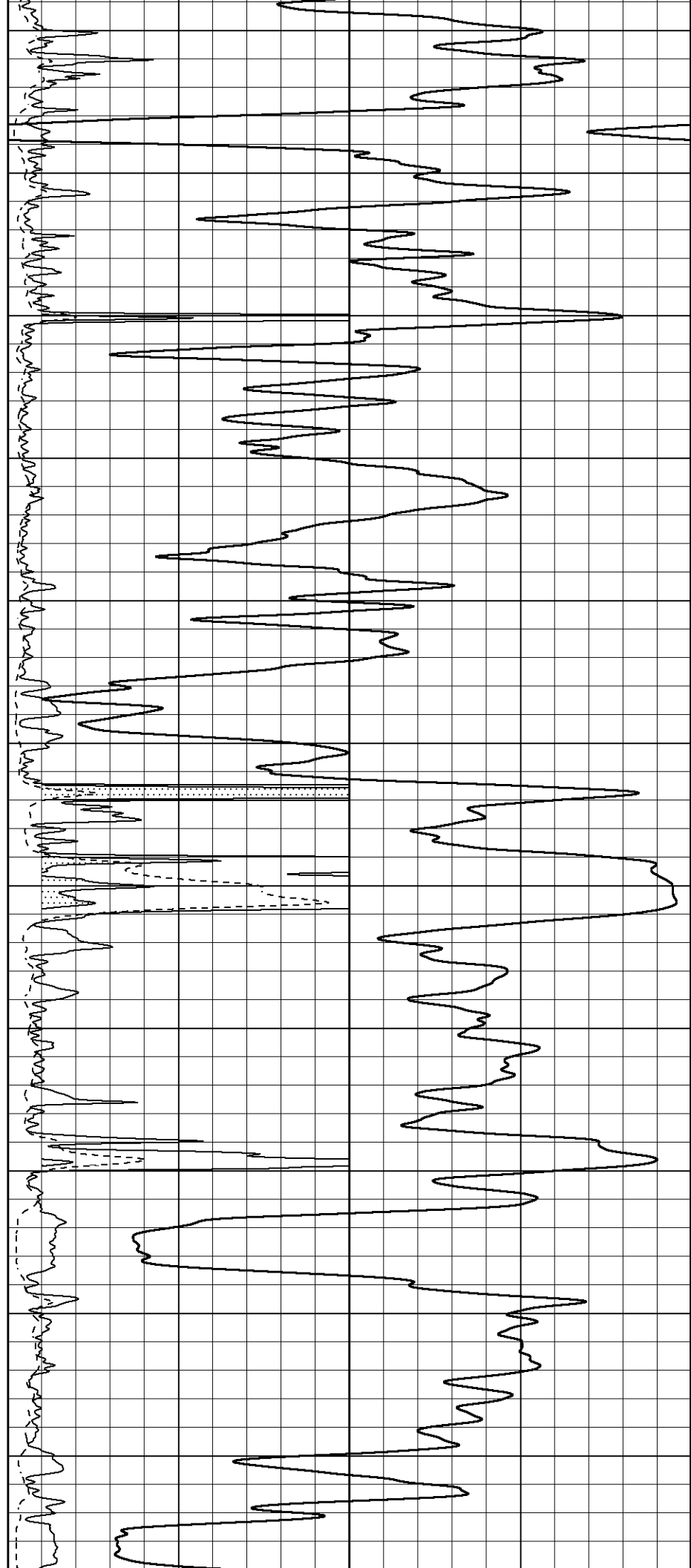


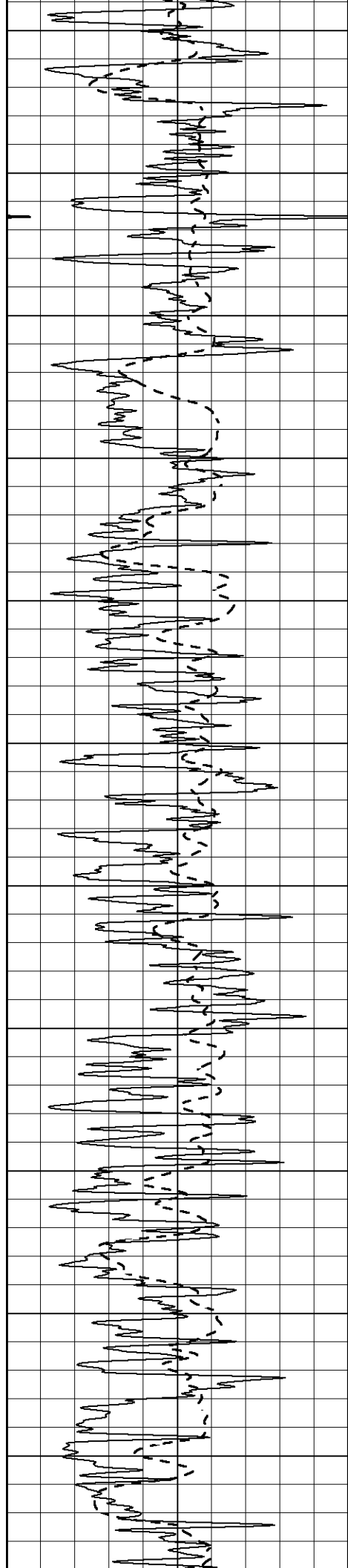
1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050





2650
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150





3200

3250

3300

3350

3400

3450

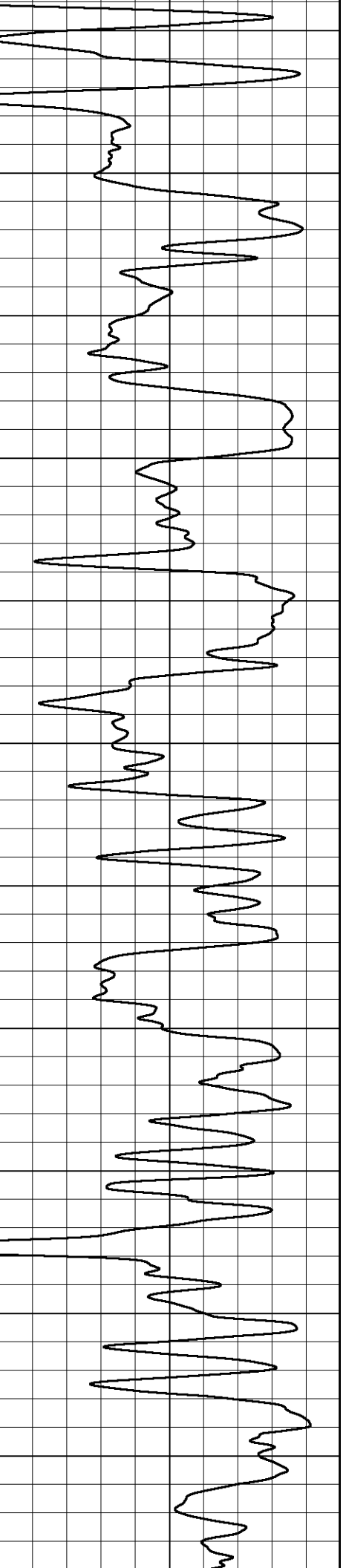
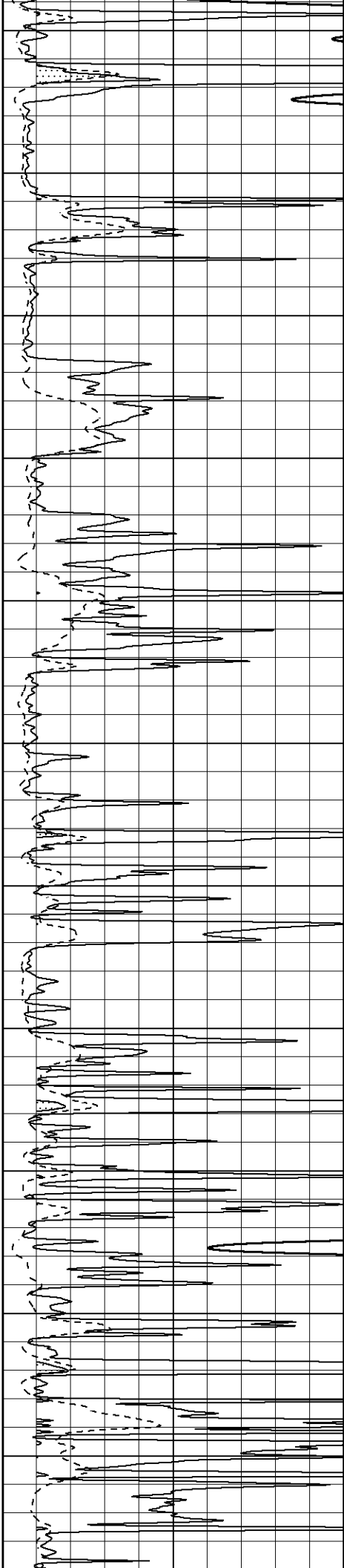
3500

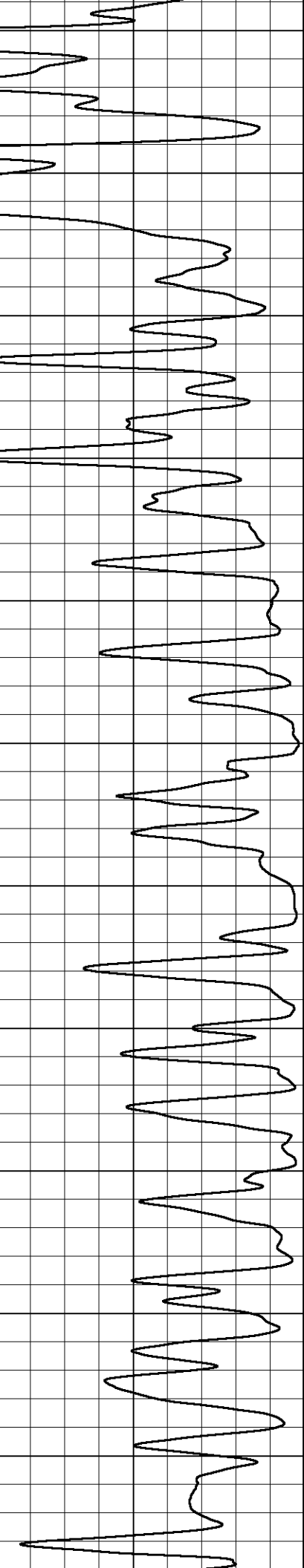
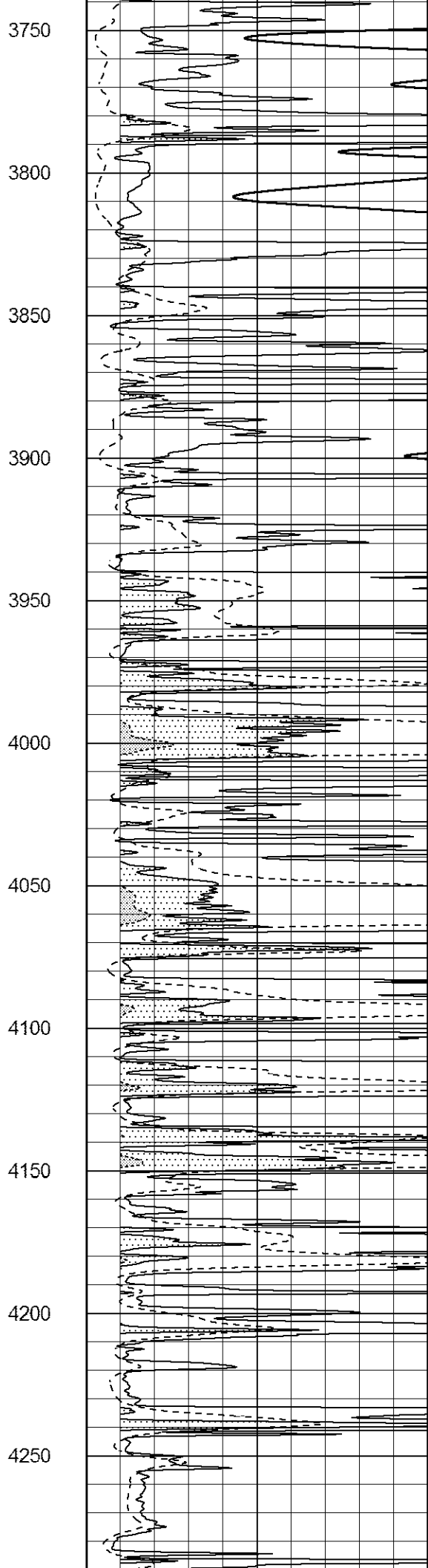
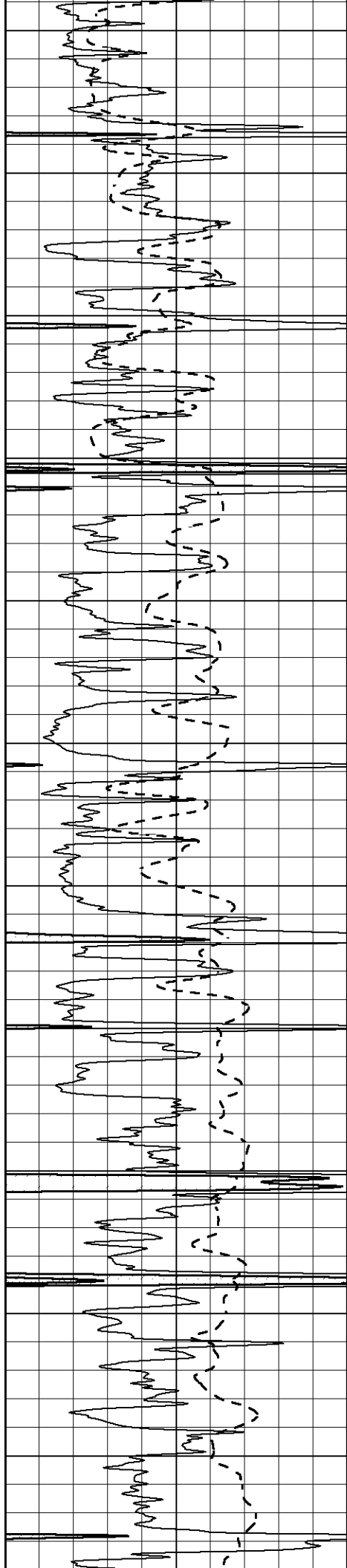
3550

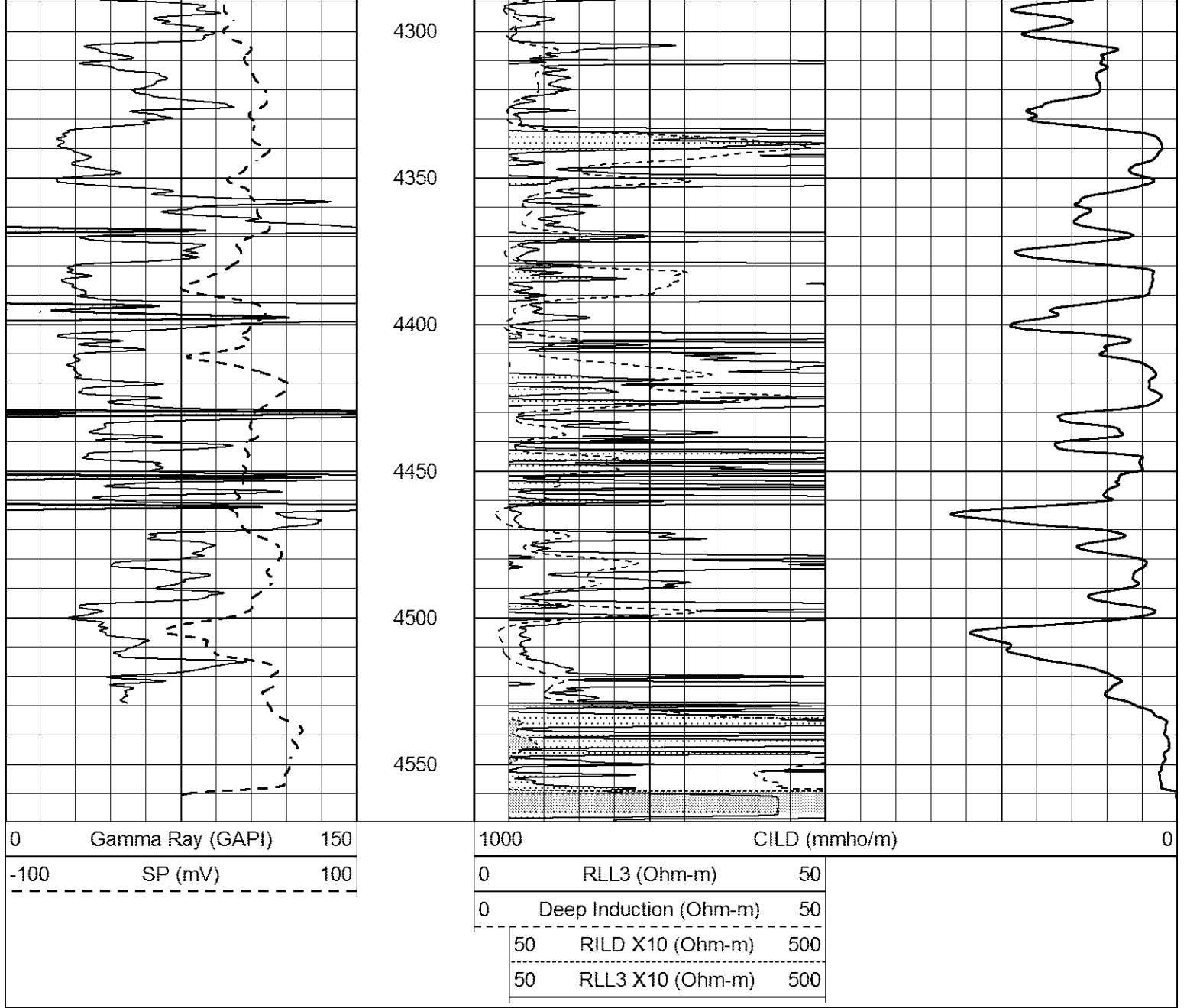
3600

3650

3700



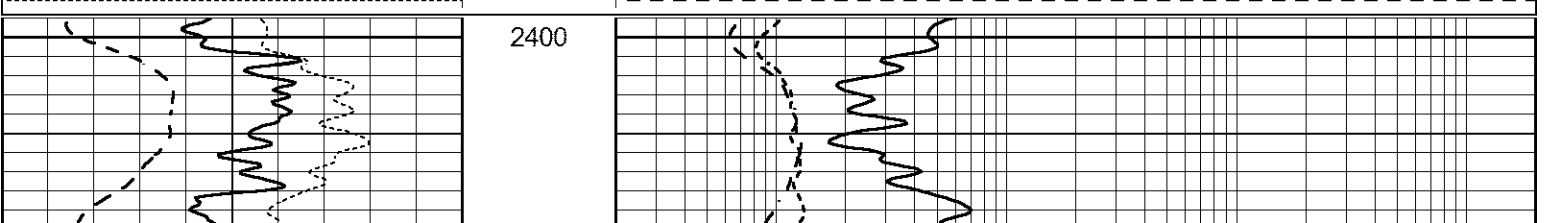


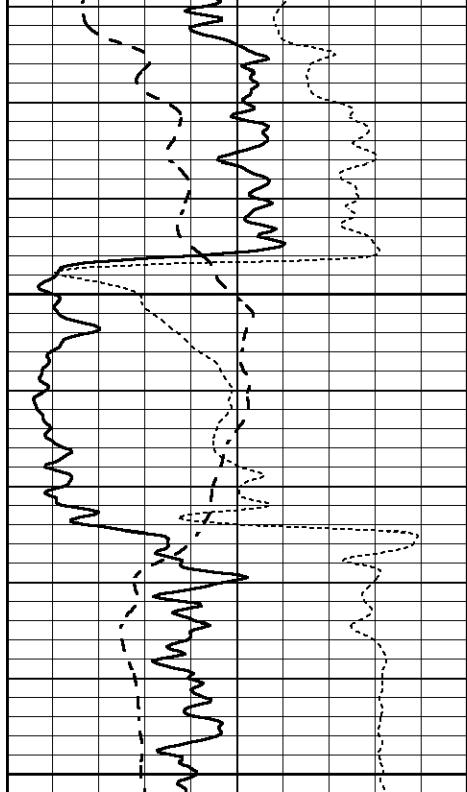


ANHYDRITE

Database File 1123pe8.db
 Dataset Pathname pass3.2
 Presentation Format _dil
 Dataset Creation Mon Mar 06 11:51:35 2017
 Charted by Depth in Feet scaled 1:240

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

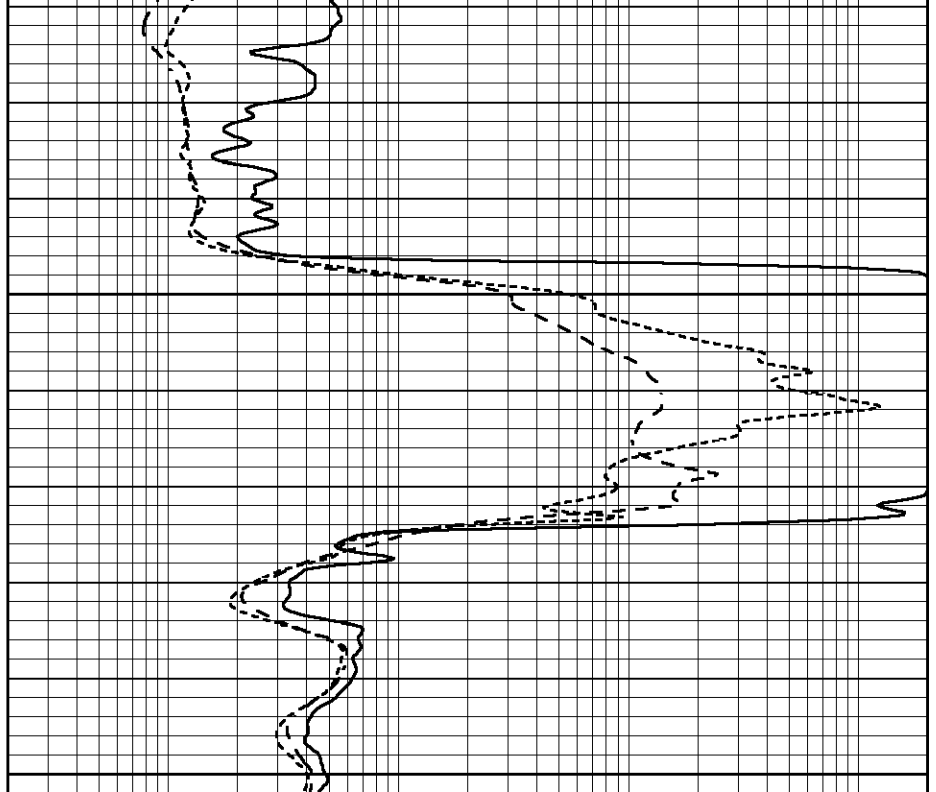




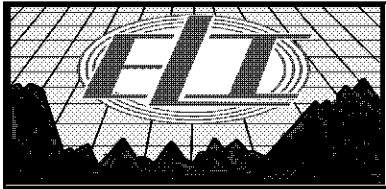
2450

2500

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

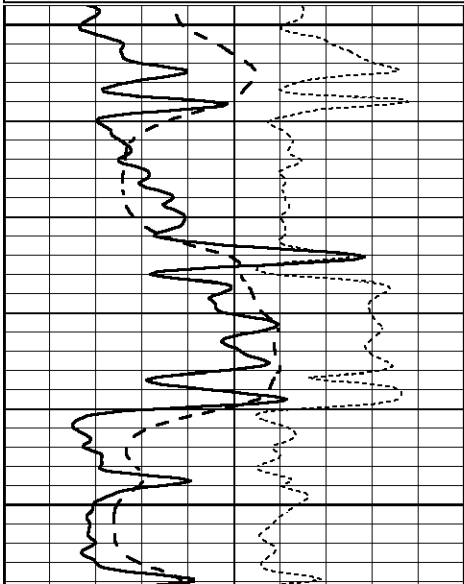


MAIN SECTION

Database File 1123pe8.db
 Dataset Pathname pass3.1
 Presentation Format _dil
 Dataset Creation Mon Mar 06 11:39:25 2017
 Charted by Depth in Feet scaled 1:240

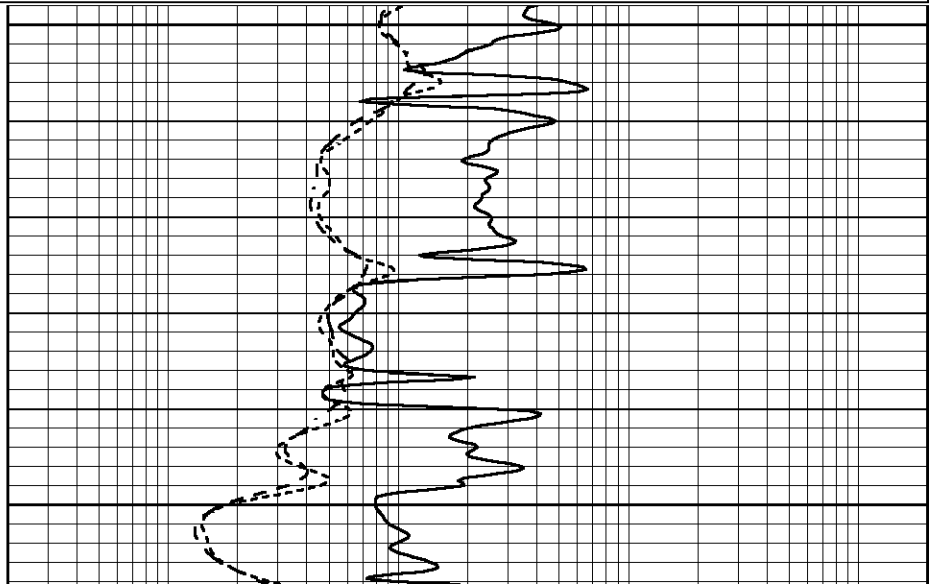
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

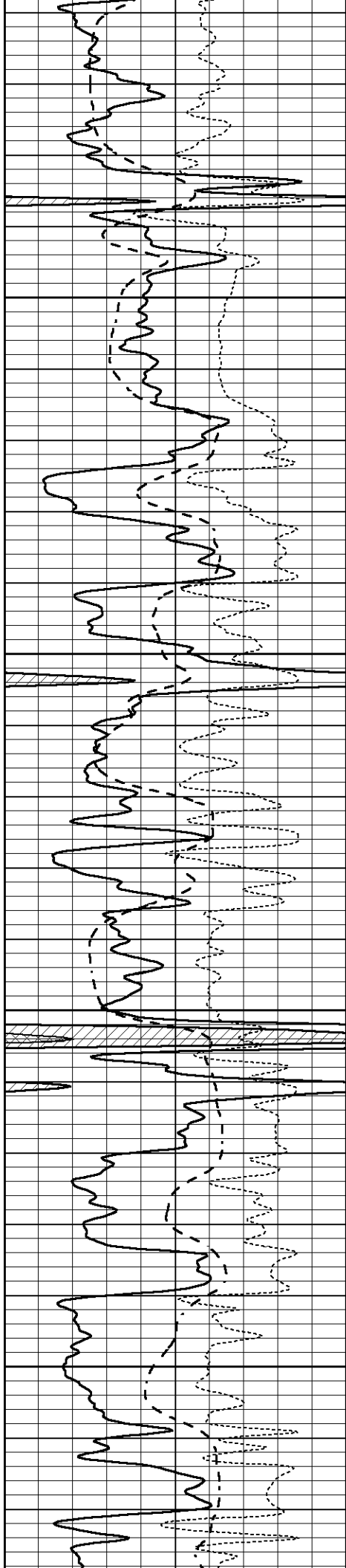
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



3700

3750



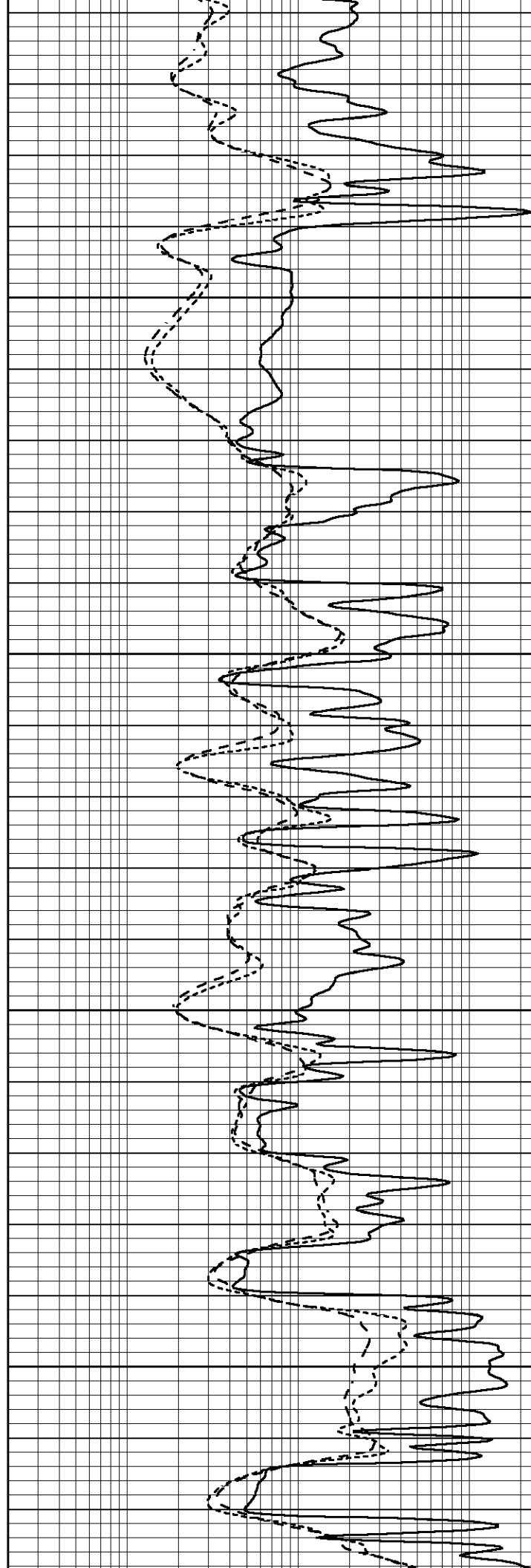


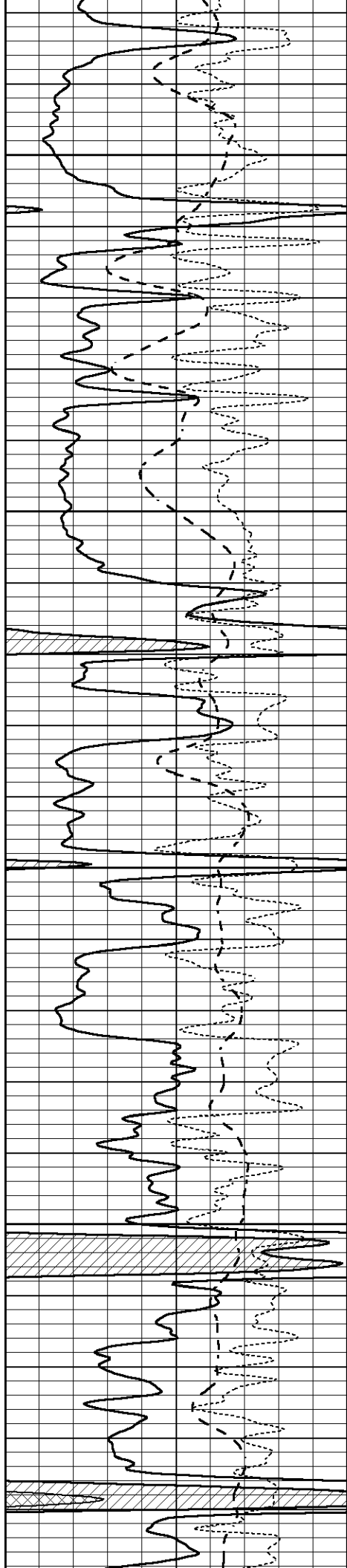
3800

3850

3900

3950



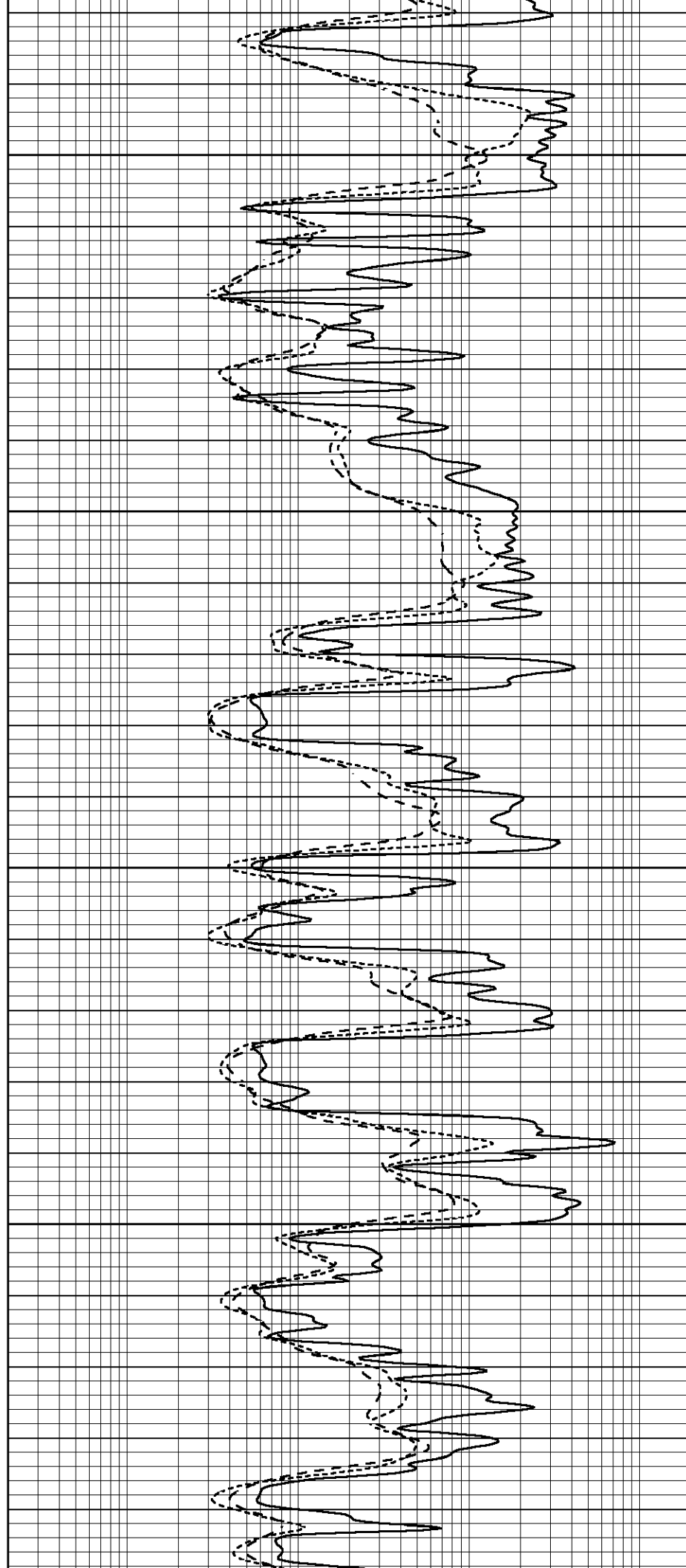


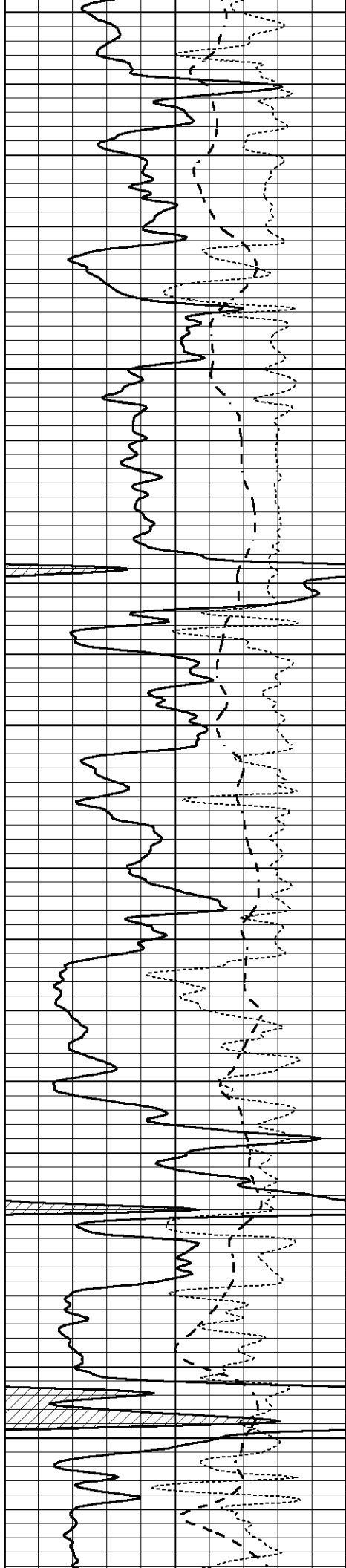
4000

4050

4100

4150





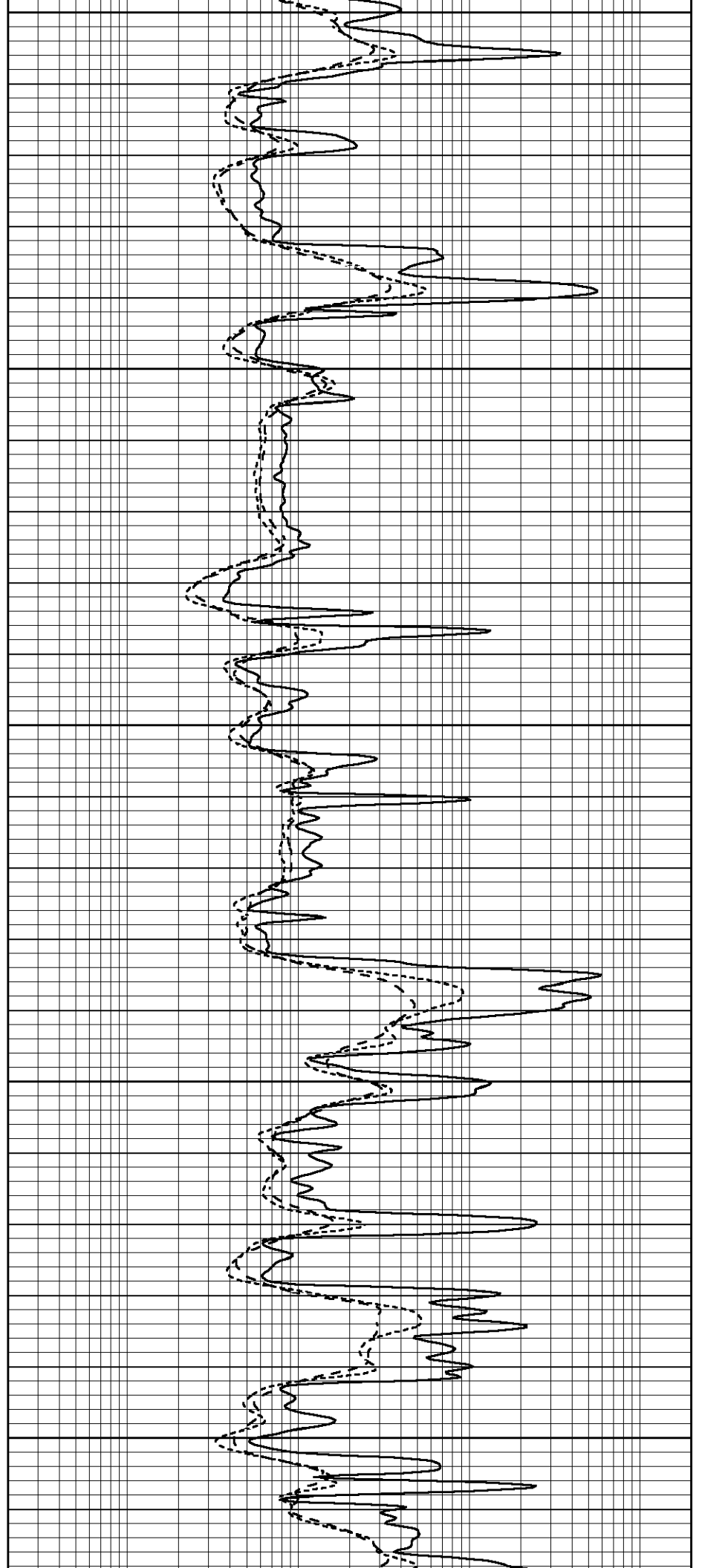
4200

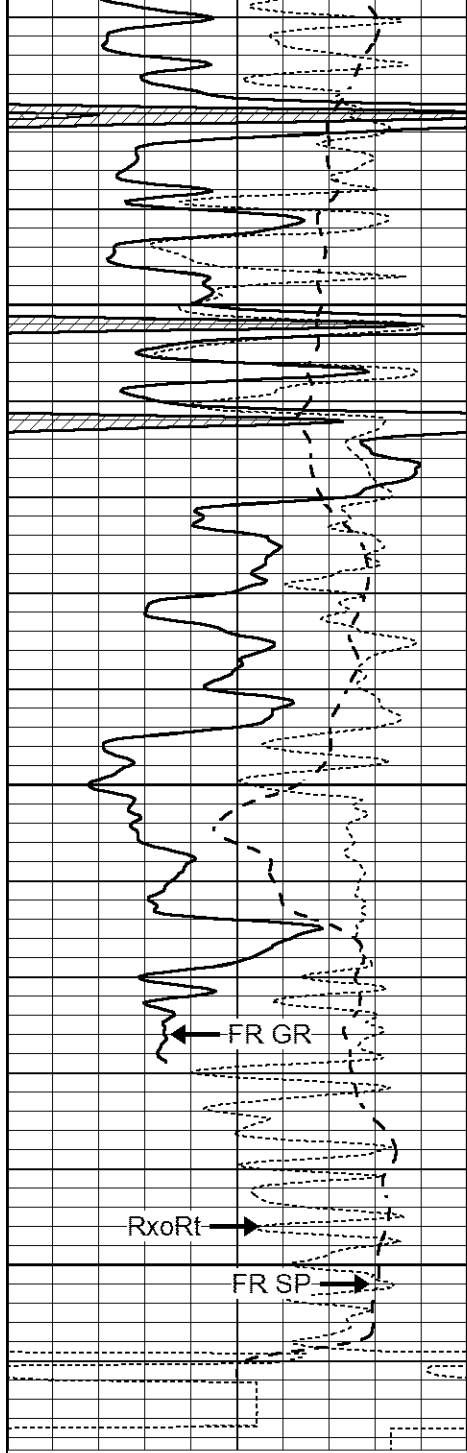
4250

4300

4350

4400





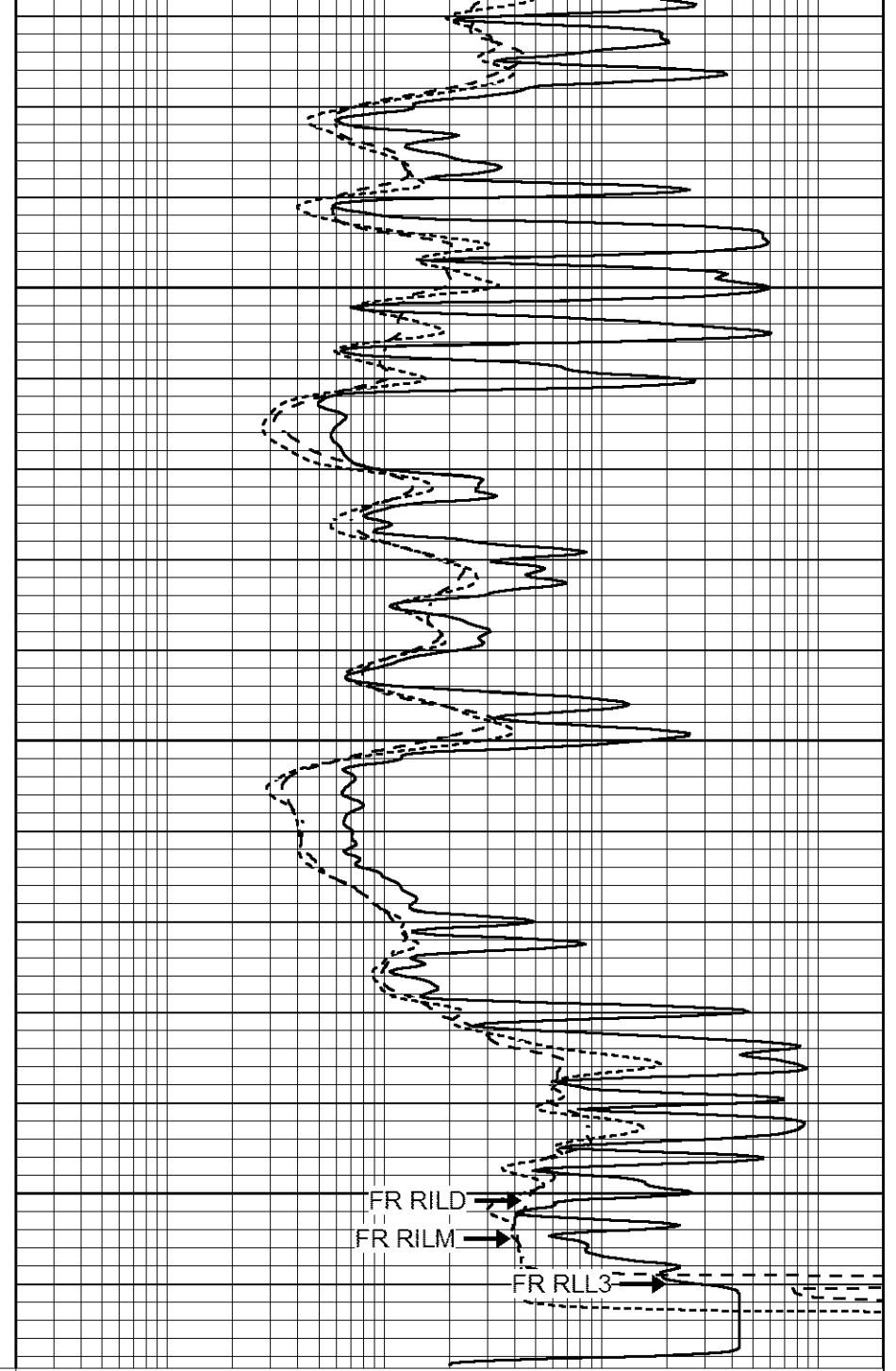
4450

4500

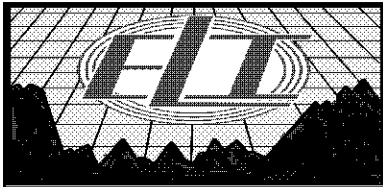
4550

LTD 4562

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

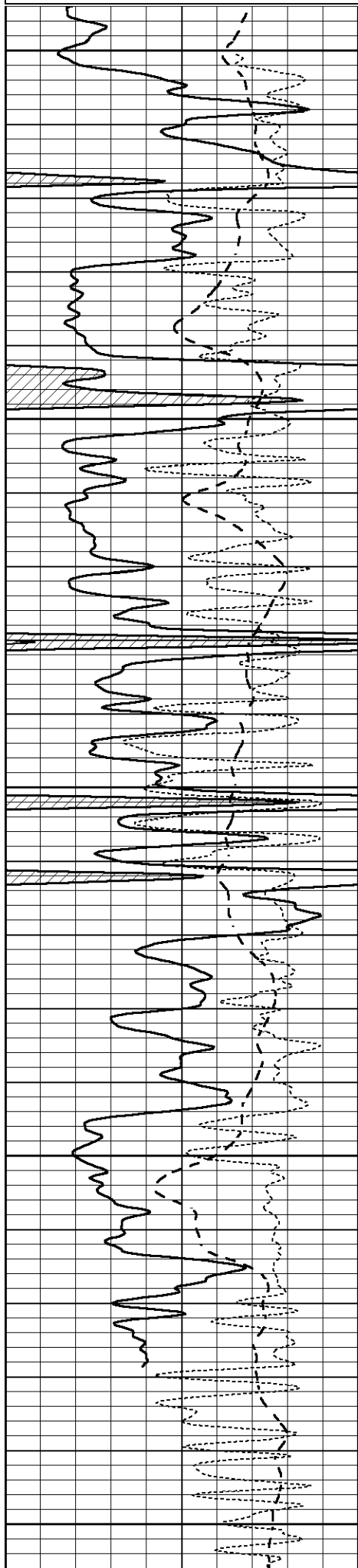


REPEAT SECTION

Database File 1123pe8.db
 Dataset Pathname pass2.2
 Presentation Format _dil
 Dataset Creation Mon Mar 06 11:31:20 2017
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100

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



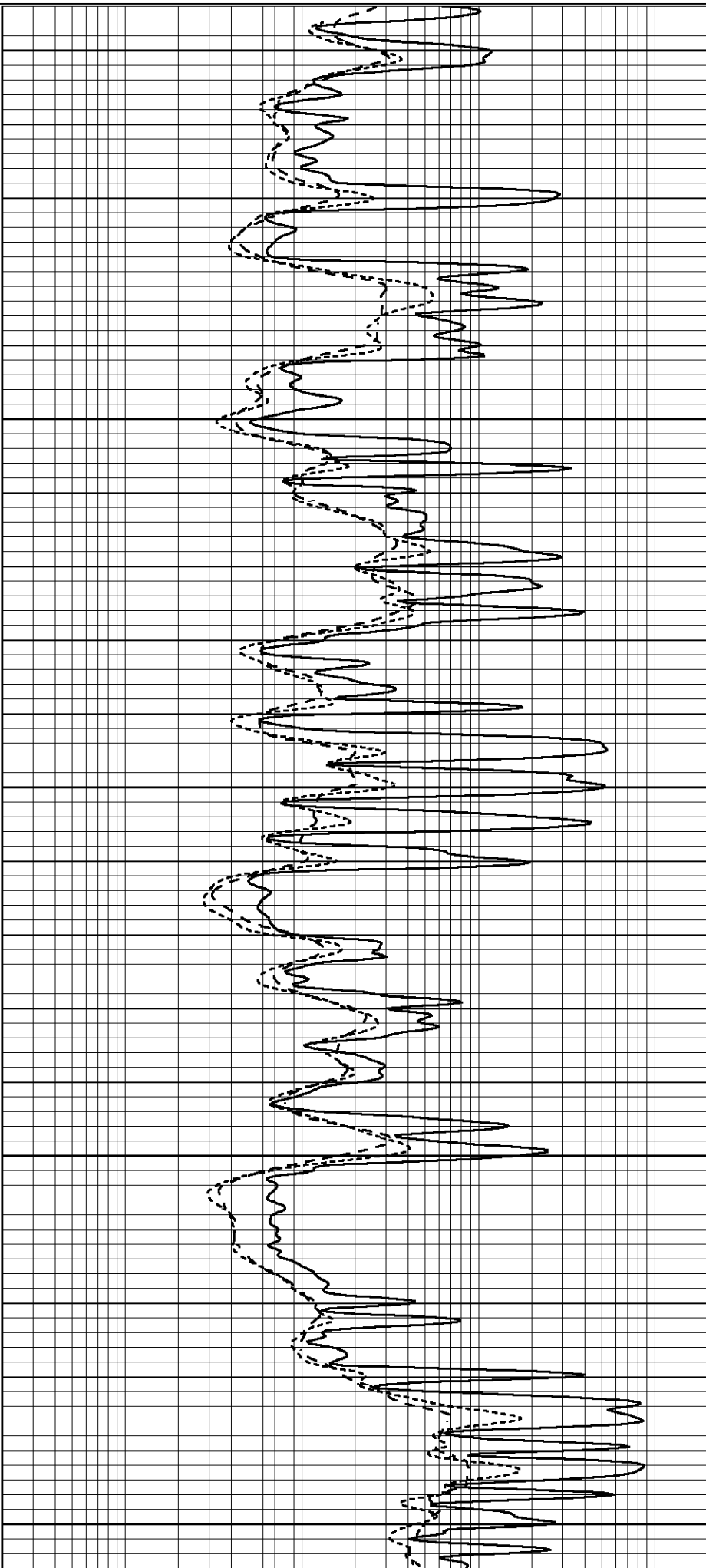
4350

4400

4450

4500

4550



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 1123pe8.db
 Dataset Pathname pass2.2
 Dataset Creation Mon Mar 06 11:31:20 2017

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Thu Mar 12 09:27:11 2015
 Downhole Cal Performed: Thu Mar 12 09:29:20 2015
 After Survey Verification Performed: Thu Mar 12 09:29:20 2015

Surface Calibration

		Readings			References			Results	
Loop:	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	V	Zero	Cal	mmho/m	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	V	Zero	Cal	mmho/m	m'	b'	
Deep	-0.824	395.917	V	-0.976	397.550	mmho/m	1.004	-0.149	
Medium	3.565	471.327	V	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	V	Zero	Cal	mmho/m	m'	b'	
Deep	0.000	0.000	V	-0.824	395.917	mmho/m	1.000	0.000	
Medium	0.000	0.000	V	3.565	471.327	mmho/m	1.000	0.000	
LL3		0.000	V		1500.000	Ohm-m			
		0.000	V		20.000	Ohm-m			
		0.000	V		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
Low	High	Low	High		
5123.0	9461.6	8.5	14.0	0.0	1.4

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:

Wed Jun 29 08:29:10 2016

Calibrator Value:

1.0

GAPI

Background Reading:

0.0

cps

Calibrator Reading:

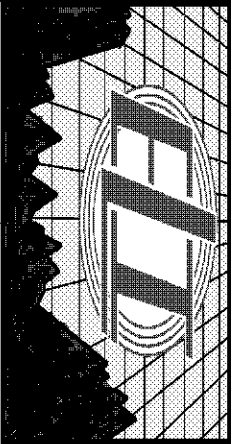
1.0

cps

Sensitivity:

0.3000

GAPI/cps



**COMPENSATED
DENSITY/NEUTRON
PE LOG**

Company **BECKER OIL CORPORATION**
 Well **#1 FROMHOLTZ**
 Field
 County **THOMAS** State **KANSAS**

Location: **2306' FSL & 990' FEL**
 API #: **15-193-20989-0000**
 Permanent Datum **GROUND LEVEL Elevation 2888**
 Log Measured From **KELLY BUSHING 5' A.G.L**
 Drilling Measured From **KELLY BUSHING**
 Other Services **DIL**
 Elevation **K.B. 2893
D.F. 2891
G.L. 2888**

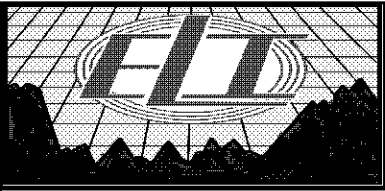
Date	3/6/17
Run Number	ONE
Depth Driller	4560
Depth Logger	4562
Bottom Logged Interval	4538
Top Log Interval	3700
Casing Driller	8 5/8" @ 241
Casing Logger	NA
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.4/53
PH / Fluid Loss	10.5/8.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	1.3 @ 77F
Rmt @ Meas. Temp	.97 @ 77F
Rmc @ Meas. Temp	1.5 @ 77F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.82 @ 121F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	121F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	JASON CAPPELLUCCI
Witnessed By	CLYDE BECKER

<<< Fold Here >>>

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

Comments

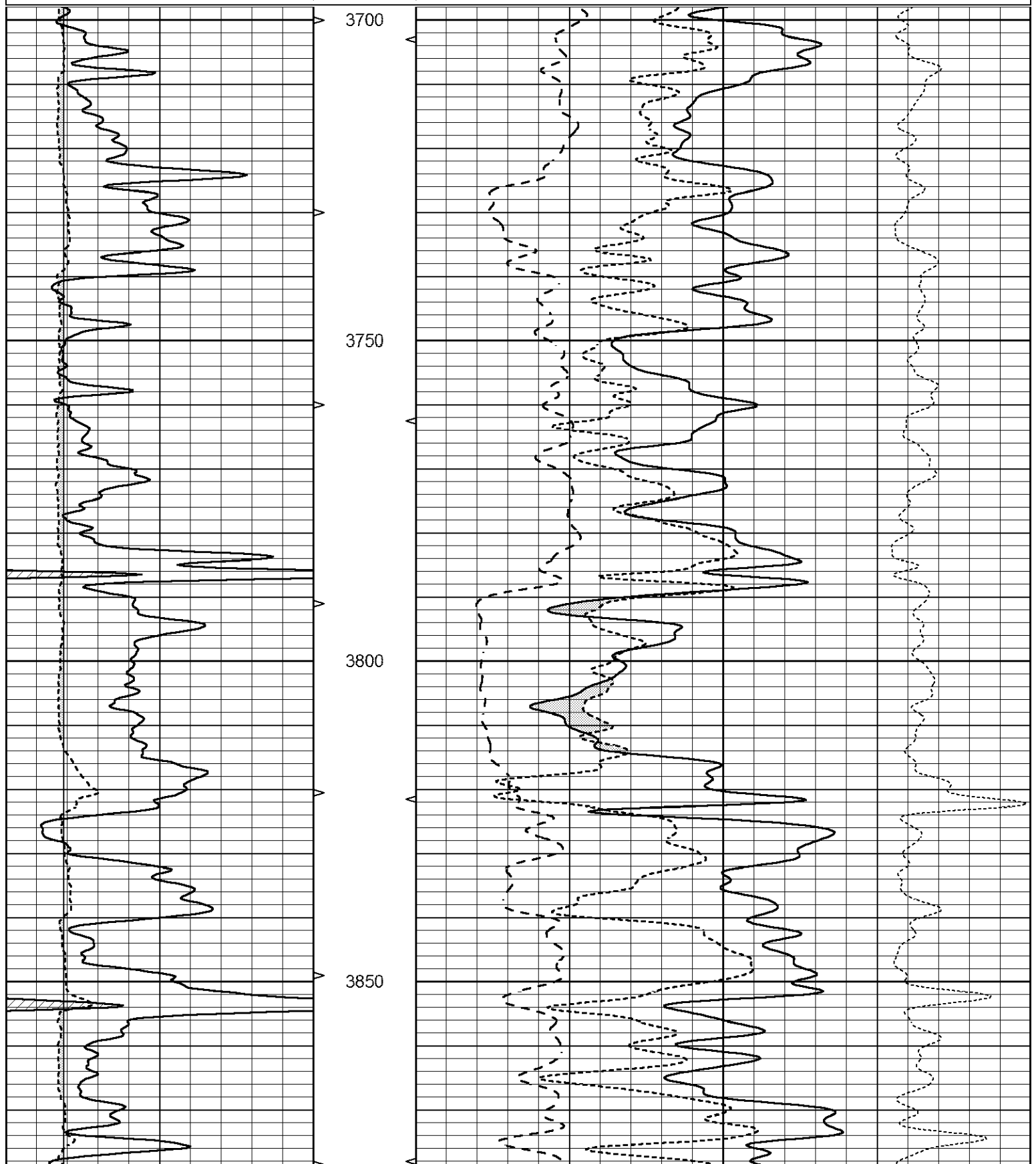
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
 DIRECTIONS
 I 70 & CAMPUS EXIT ABOUT 2 NORTH TO THE CURVE (RD. GO EE) - 1 EAST - NORTH INTO

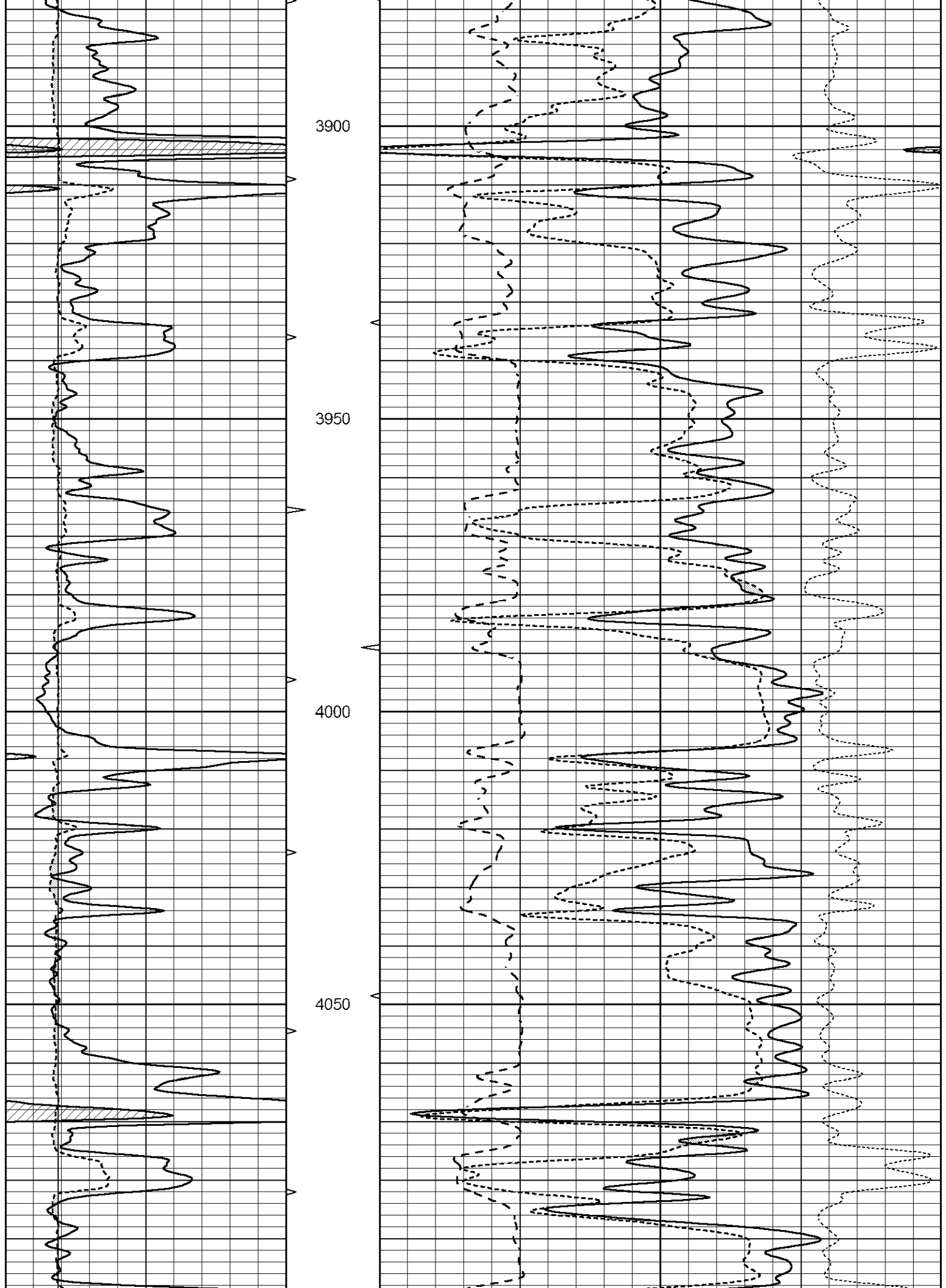


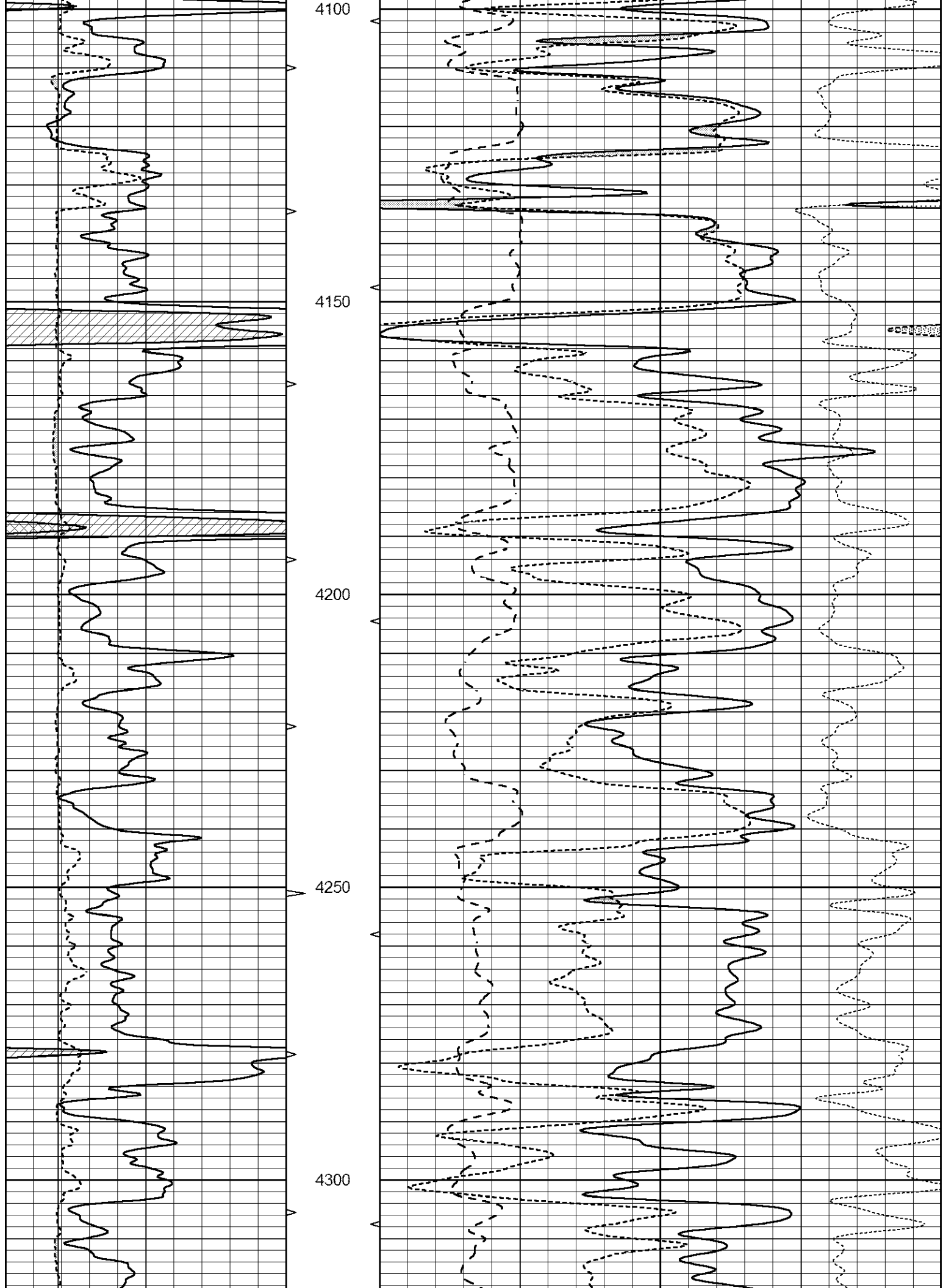
MAIN SECTION

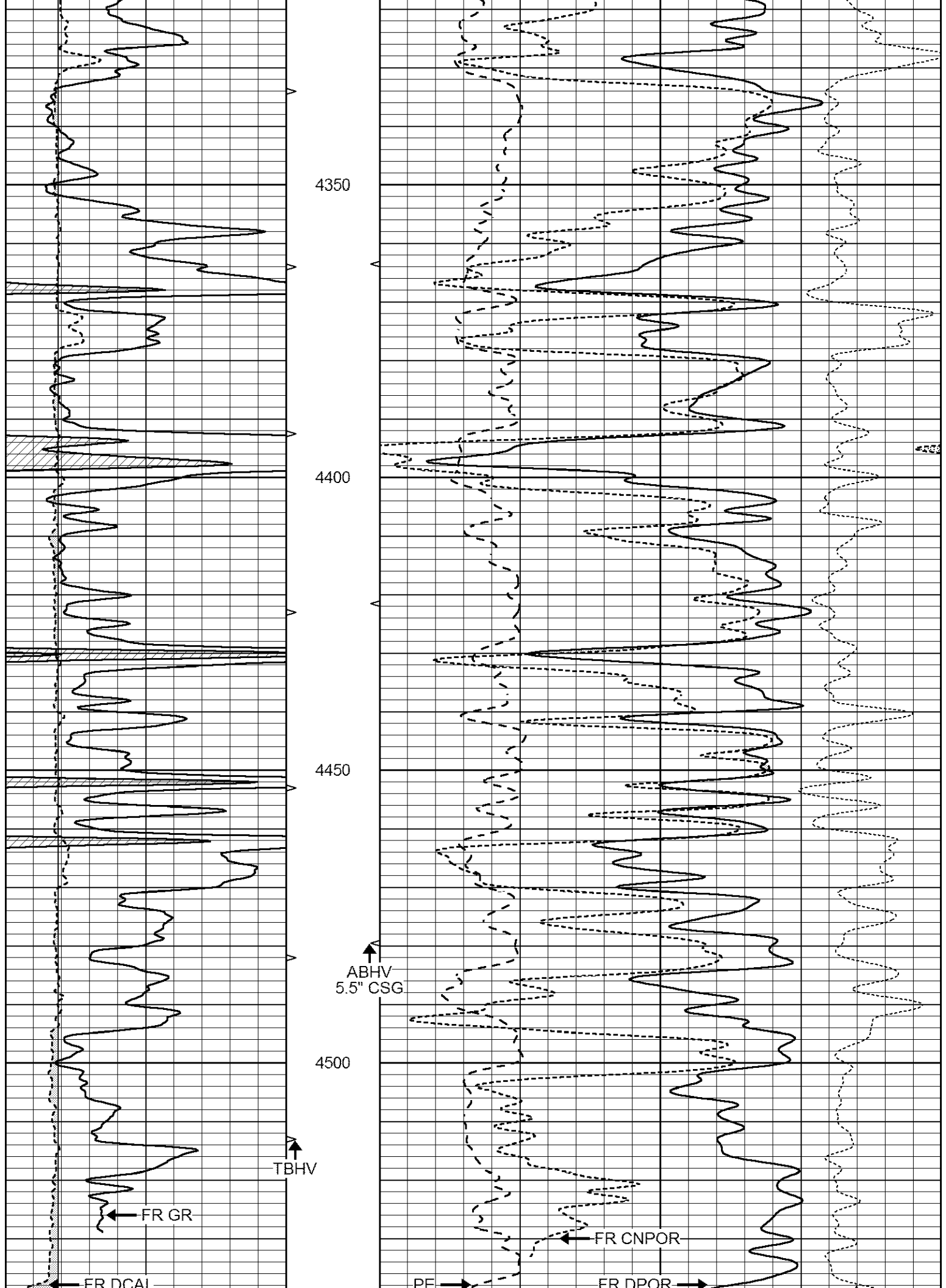
Database File 1123pe8.db
 Dataset Pathname pass3.1
 Presentation Format _ldt_neu
 Dataset Creation Mon Mar 06 11:39:25 2017
 Charted by Depth in Feet scaled 1:240

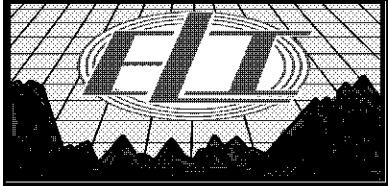
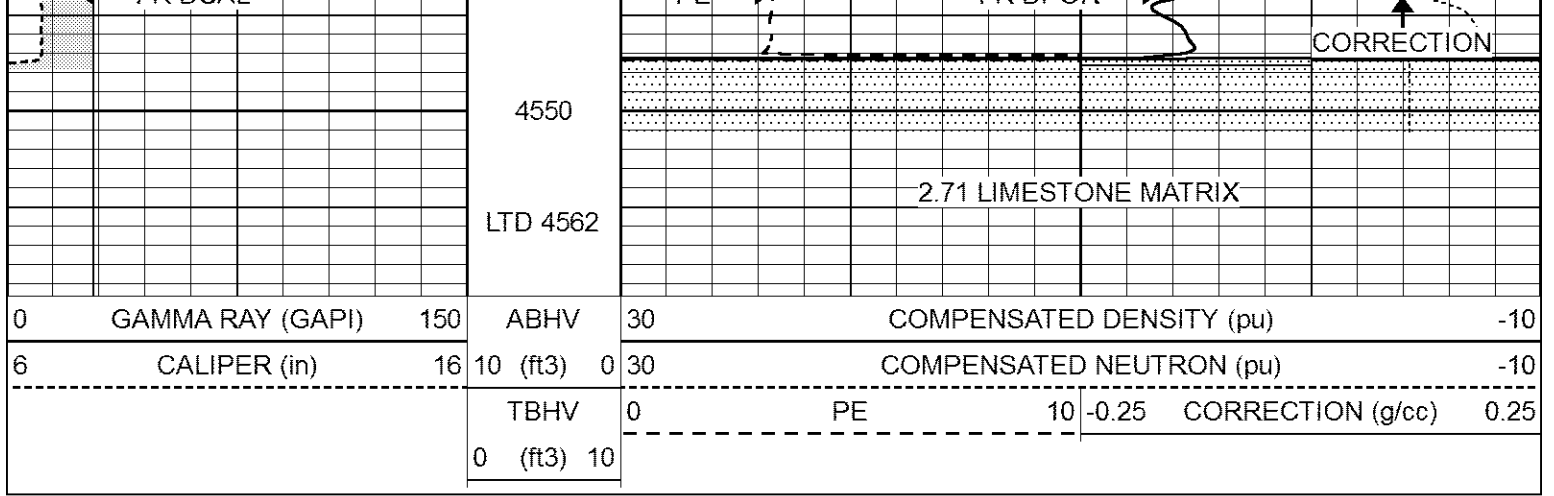
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)		-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)		-10
			TBHV	0	PE	10 -0.25	CORRECTION (g/cc) 0.25
			0 (ft3)	10			







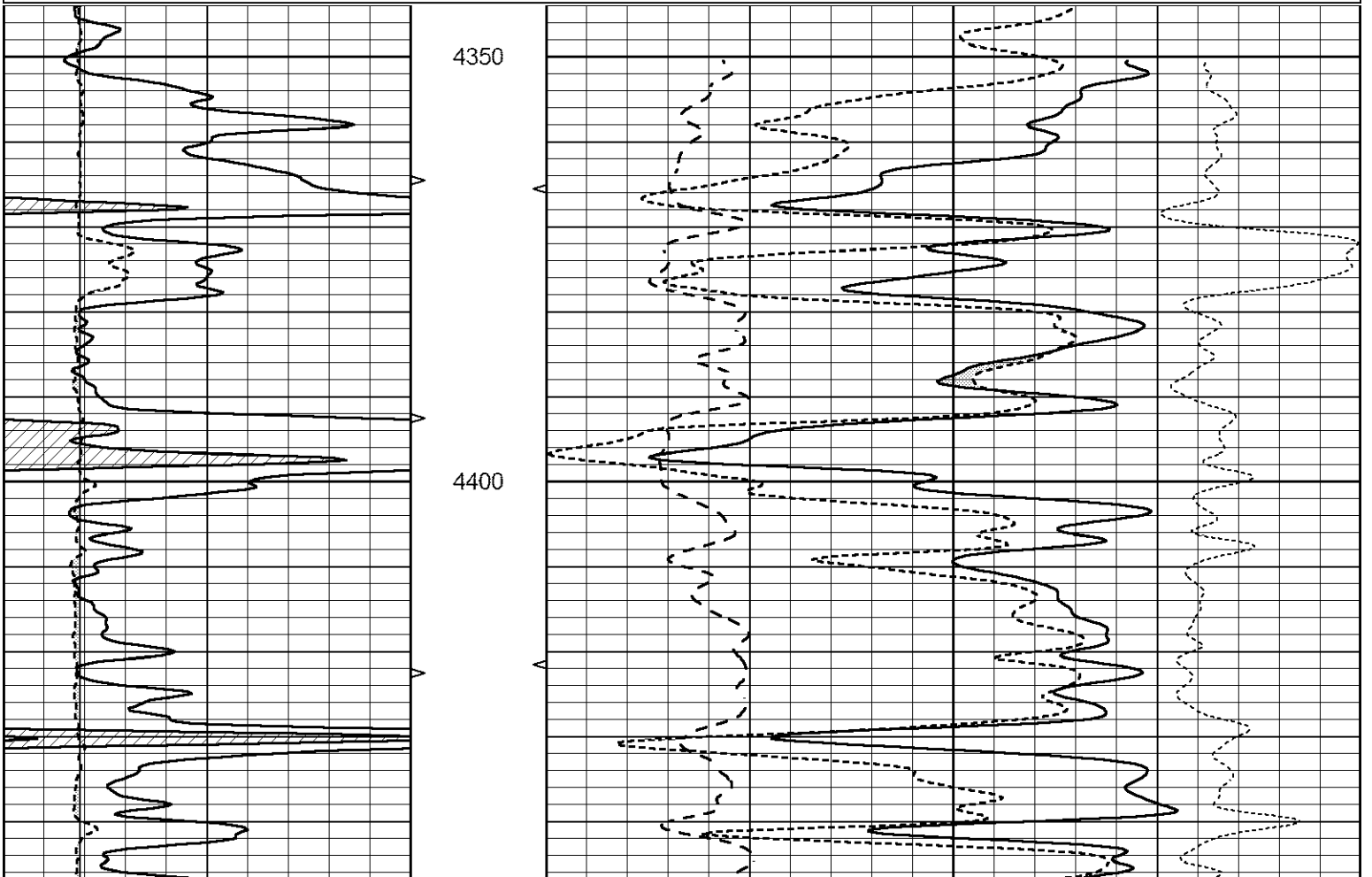


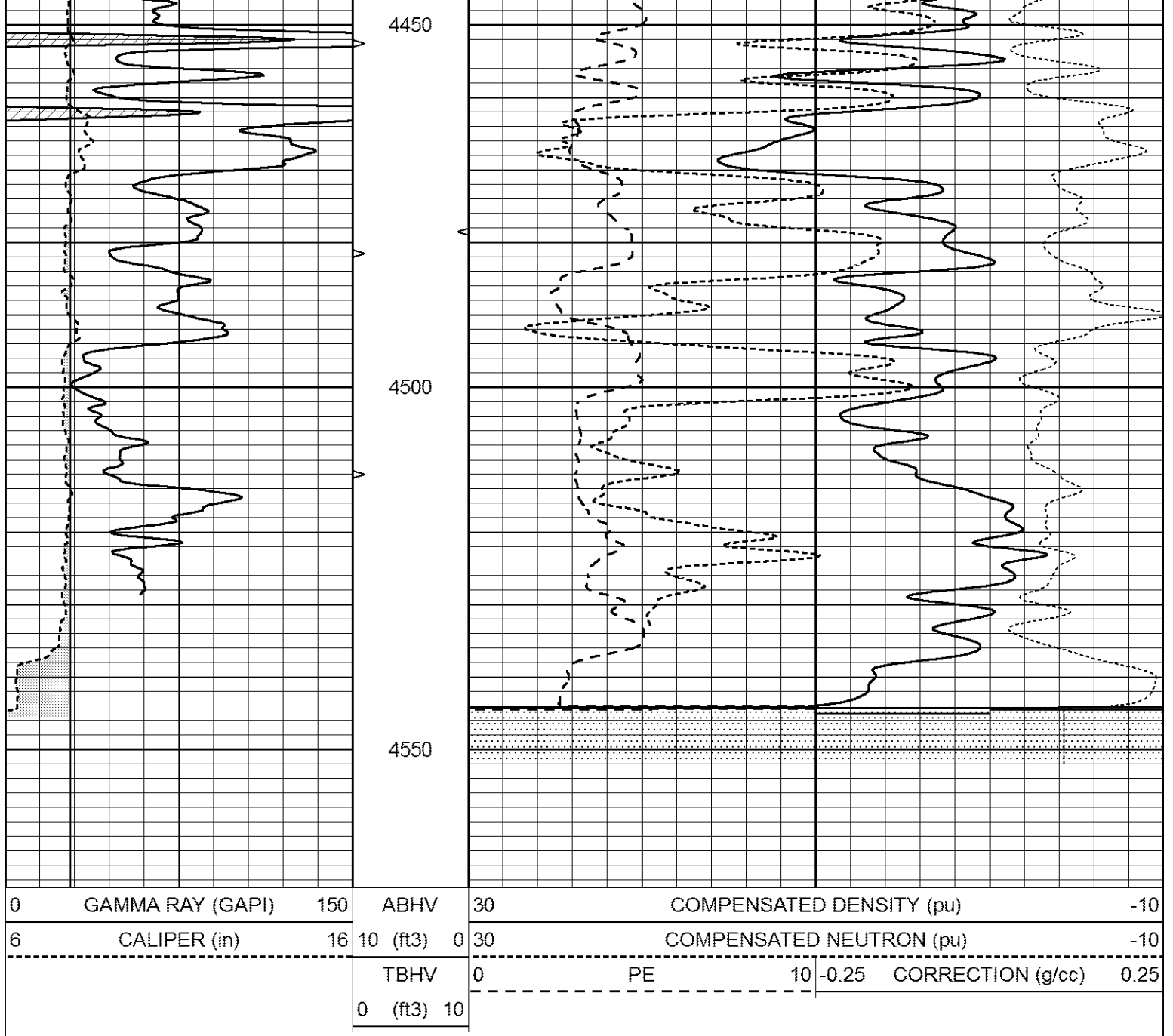


REPEAT SECTION

Database File 1123pe8.db
 Dataset Pathname pass2.2
 Presentation Format _ldt_neu
 Dataset Creation Mon Mar 06 11:31:20 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
			0 (ft3)	10		CORRECTION (g/cc) 0.25





Database File		1123pe8.db		Calibration Report			
Dataset Pathname		pass2.2					
Dataset Creation		Mon Mar 06 11:31:20 2017					
Dual Induction Calibration Report							
Serial-Model:				FW1410-55-Probe			
Surface Cal Performed:				Thu Mar 12 09:27:11 2015			
Downhole Cal Performed:				Thu Mar 12 09:29:20 2015			
After Survey Verification Performed:				Thu Mar 12 09:29:20 2015			

Surface Calibration		Readings		References			Results	
Loop:	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)		Gain	Offset
	Low	High	Low	High		
	5123.0	9461.6	8.5	14.0	0.0	1.4

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: Wed Jun 29 08:29:10 2016

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.3000 GAPI/cps

Customer Becker Oil Corporation	Lease No.	Date 2/27/2017
Lease From hcl 12	Well # 1	
Field Order # 14705	Station Pratt, KS	Casing 8 5/8
		Depth 218
Type Job 242/8 5/8 Surface	Formation TD-241	County Thomas
		State KS
		Legal Description 36-105-31W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
8 5/8				Pre Pad	Max		5 Min.	
Depth 218	Depth	From	To	Pad	Min		10 Min.	
Volume 13.8	Volume	From	To	Frac	Avg		15 Min.	
Max Press	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection	Annulus Vol.	From	To	Flush Freshwater	Gas Volume		Total Load	
Plug Depth 198	Packer Depth	From	To					

Customer Representative John	Station Manager David Scott	Treater Darin Franklin
Service Units 92911 84980 19843 19959 21010		
Driver Names Darin McGrew McGrew Shawn Shawn		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:00pm					On location / set / meet us
					218' 8 5/8 casing 24#
					170SK 60/40 P02, 3% calcium Chloride
					2% Gel, 14.5 spm, 1.26 veild, 5.63 water
10:15pm	200		3	5	Pump 3 bbls water
	200		38	5	mix 170SK cement
	200		12 1/2	3	DISPICE water
10:30pm					Shut in
					Cement d. & Circulsk 10 bbls
					Job complete / Darin & crew
					THANK YOU!!