



TEMPERATURE CCL LOG

FILE NO: <u>MD11798</u>	COMPANY WSP USA, INC.
API NO: <u>30-015-44677</u>	WELL NAVAJO REFINING WDW #4
	FIELD ARTESIA
	COUNTY EDDY
	STATE NEW MEXICO

Ver. 4.10	LOCATION: 1217' FSL & 2443' FWL SECTION 23, T17S, R27E N.M.P.M. SURVEY	OTHER SERVICES
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PERMANENT DATUM	GL	ELEVATION	3565.8 FT	ELEVATIONS: KB 3565.8 FT DF 3584.8 FT GL 3565.8 FT
LOG MEASURED FROM	KB	20 FT	ABOVE P.D.	
DRILL. MEAS. FROM	KB			

DATE	26-JUL-2018		
RUN	TRIP	11	1
SERVICE ORDER		140456	
DEPTH DRILLER		10360 FT	
DEPTH LOGGER		N/A	
BOTTOM LOGGED INTERVAL		9800 FT	
TOP LOGGED INTERVAL		0 FT	
TIME STARTED		09:30	
TIME FINISHED			
OPERATOR RIG TIME		10 HRS	
TYPE OF FLUID IN HOLE		WBM	
FLUID DENSITY		10.2 LB/G	
FLUID SALINITY		N/A	
FLUID LEVEL		FULL	
LOGGED CEMENT TOP		N/A	
WELLHEAD PRESSURE		0 PSI	
MAXIMUM HOLE DEVIATION		0 DEG	
NOMINAL LOGGING SPEED		100 F/MIN	
MAX. RECORDED TEMP.		N/A	
REFERENCE LOG		RPM/TEMP	
REFERENCE LOG DATE		7/22/18	
EQUIP. NO.	LOCATION	HL6845	MIDLAND, TX
RECORDED BY		JKOSKI	
WITNESSED BY		KCOOK/L.MCDONALD	

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE THE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

REMARKS

RUN 11 TRIP 1: **TIED INTO RPM/TEMP LOG**
DATED 7/22/18

RIG: PATRIOT #5
CREW: A.FERREBUS / R.SANCHEZ

MAIN LOG 5"/100FT SCALE

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/md11798R11/p353bTEMP02.prm
LOGGING MODE: DEPTH DIRECTION: DOWN
TOP DEPTH: 29.984 ft BOTTOM DEPTH: 9792.000 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
SPEED	FILTER ()	medium (1)		TOP	BOTTOM
TENSION	FILTER ()	medium (1)		"	"
TEMP	FILTER ()	medium (1)		"	"

CURVE DESCRIPTION REPORT

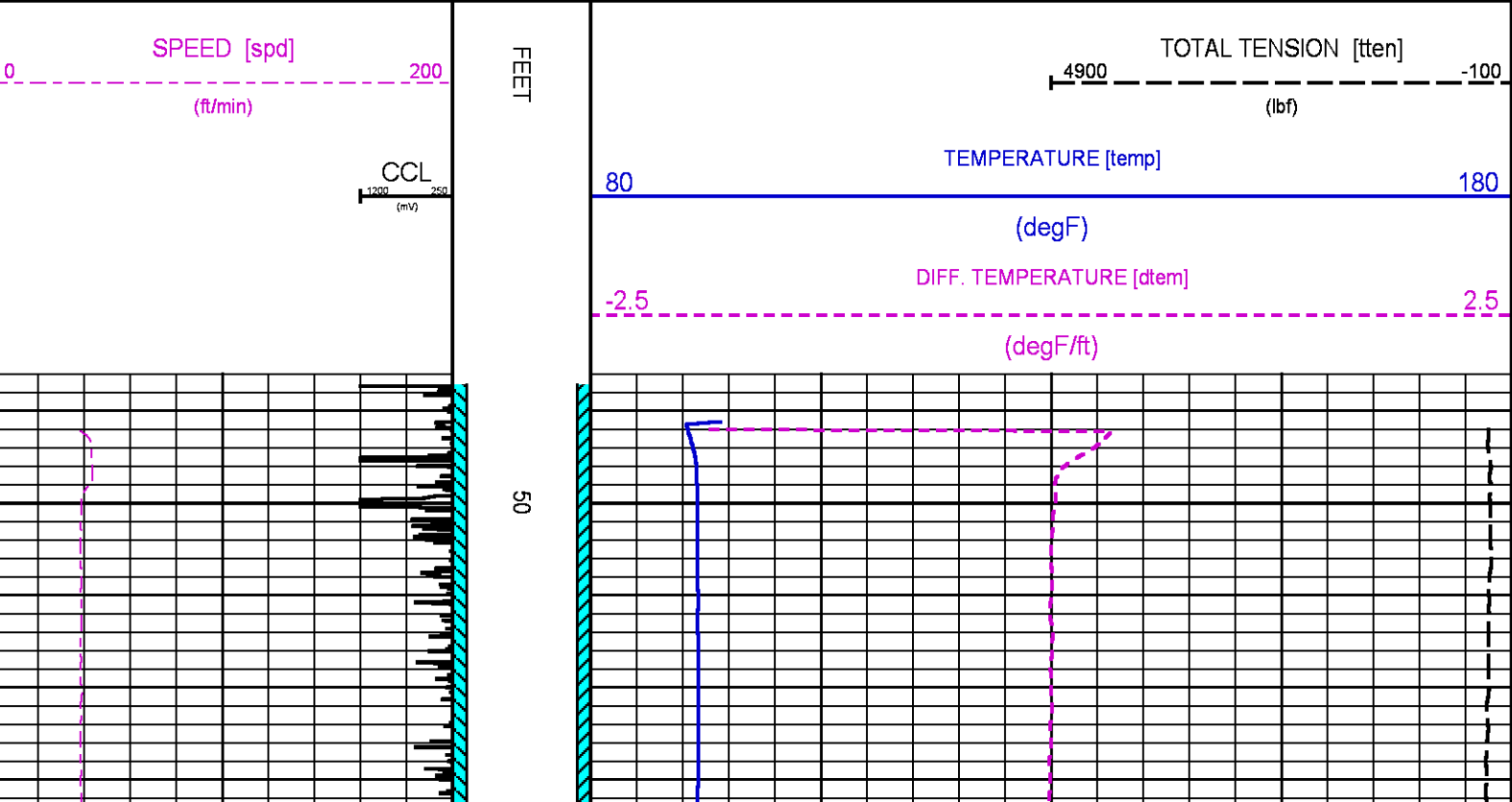
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCLQH	N/A	CASING COLLAR LOCATOR
F1:DTEM	N/A	DIFFERENTIAL TEMPERATURE
F1:SPD	N/A	SPEED
F1:TEMP	N/A	TEMPERATURE
F1:TEN	N/A	TOTAL TENSION

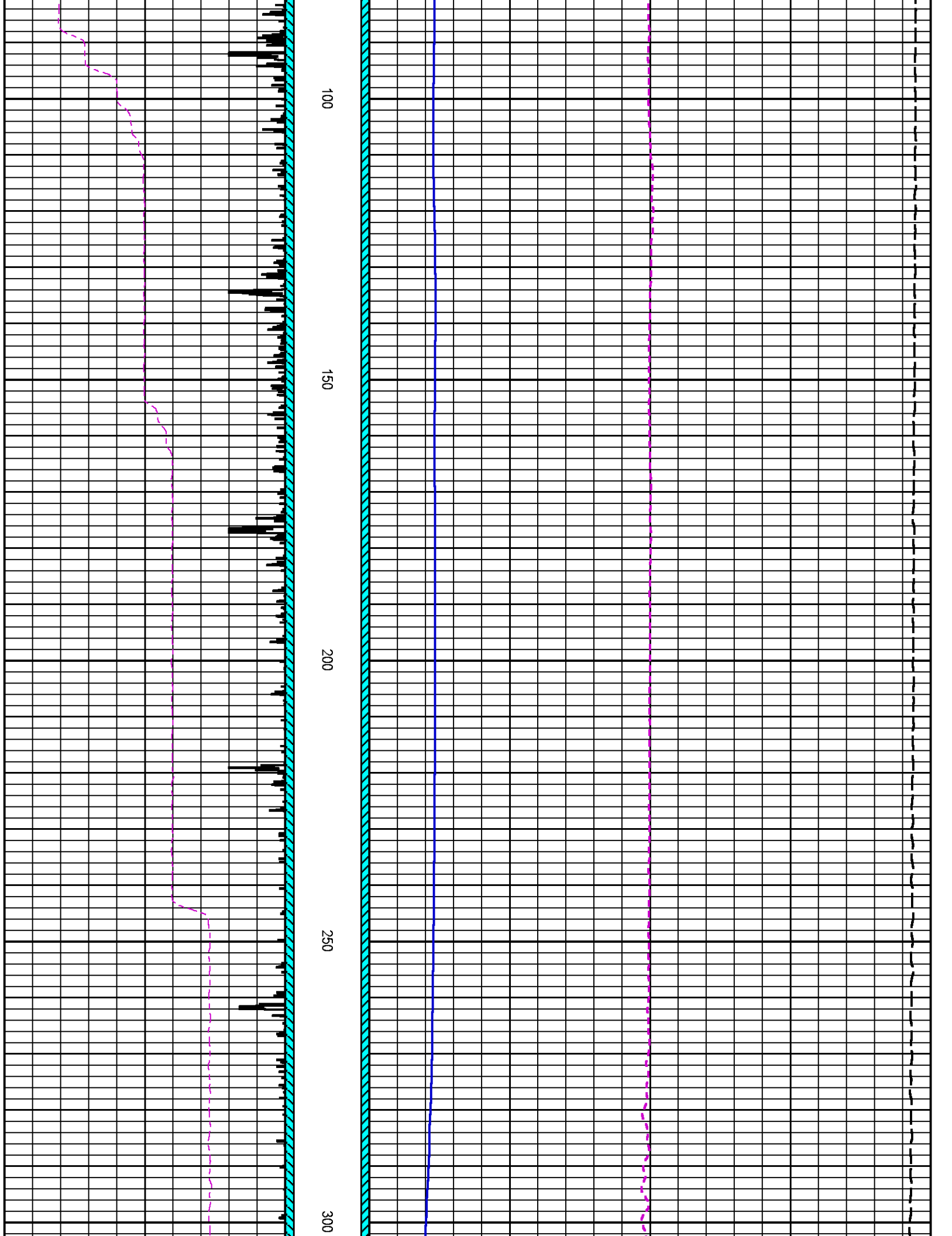
CURVE MEASURE POINT OFFSET

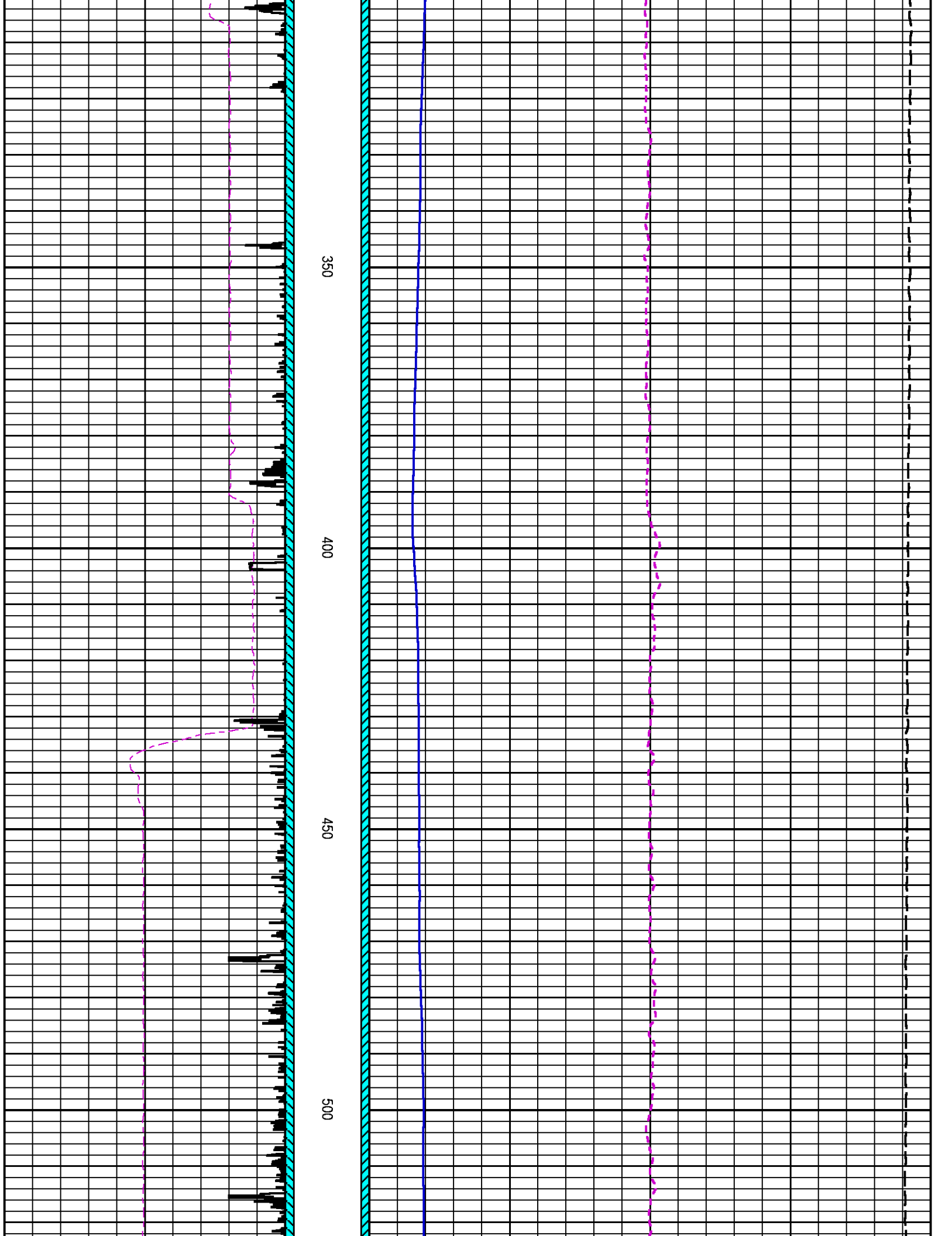
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCLQH	-3.38	SPD	0.00	TEN	0.00		
DTEM	-0.75	TEMP	-0.75				

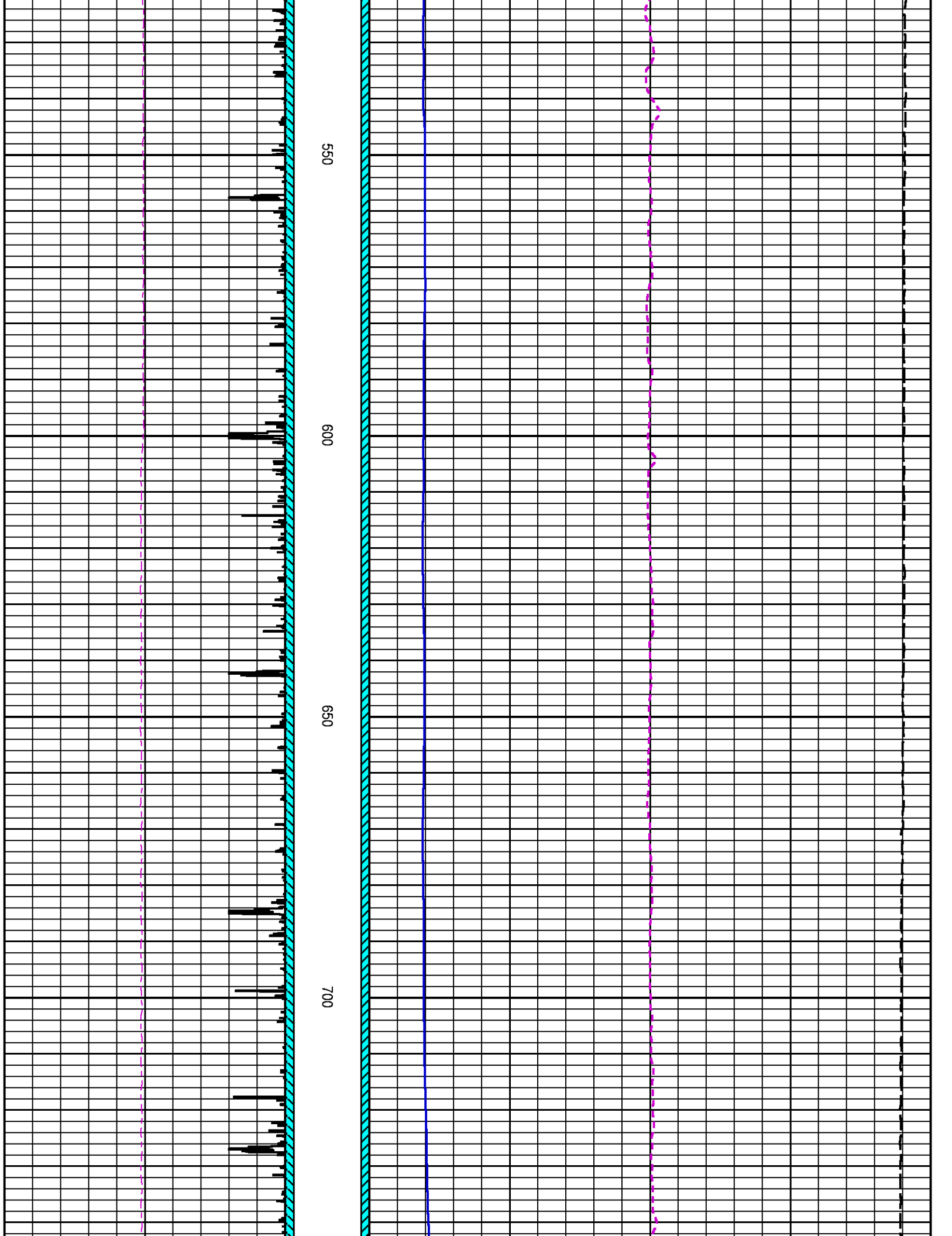
Presentation : SysA:/dat1a/md11798R11/gr-temp.fvpdf [5"/100' Scale]
Plot Interval : 37.25 - 9801.25 Feet

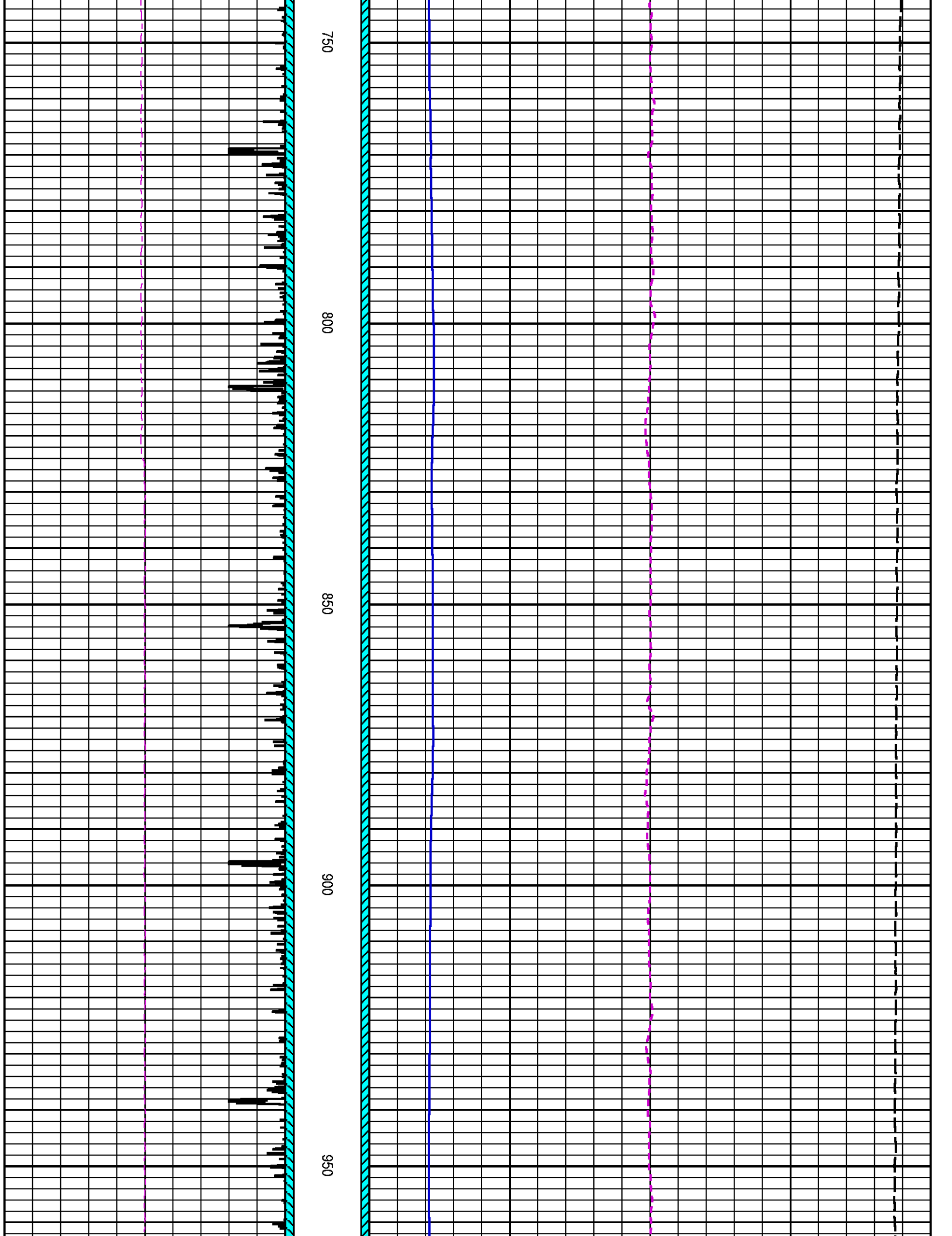
Data File 1 : F1 : SysA:/dat1a/md11798R11/TEMP.xtf
Created On : N/A
Company : HOLLY FRONTIER - NAVAJO
Well : NAVAJO REFINING WDW #4
Field : ARTESIA
File Interval : 37.25 - 9802.5 Feet
OCT : p353bTEM

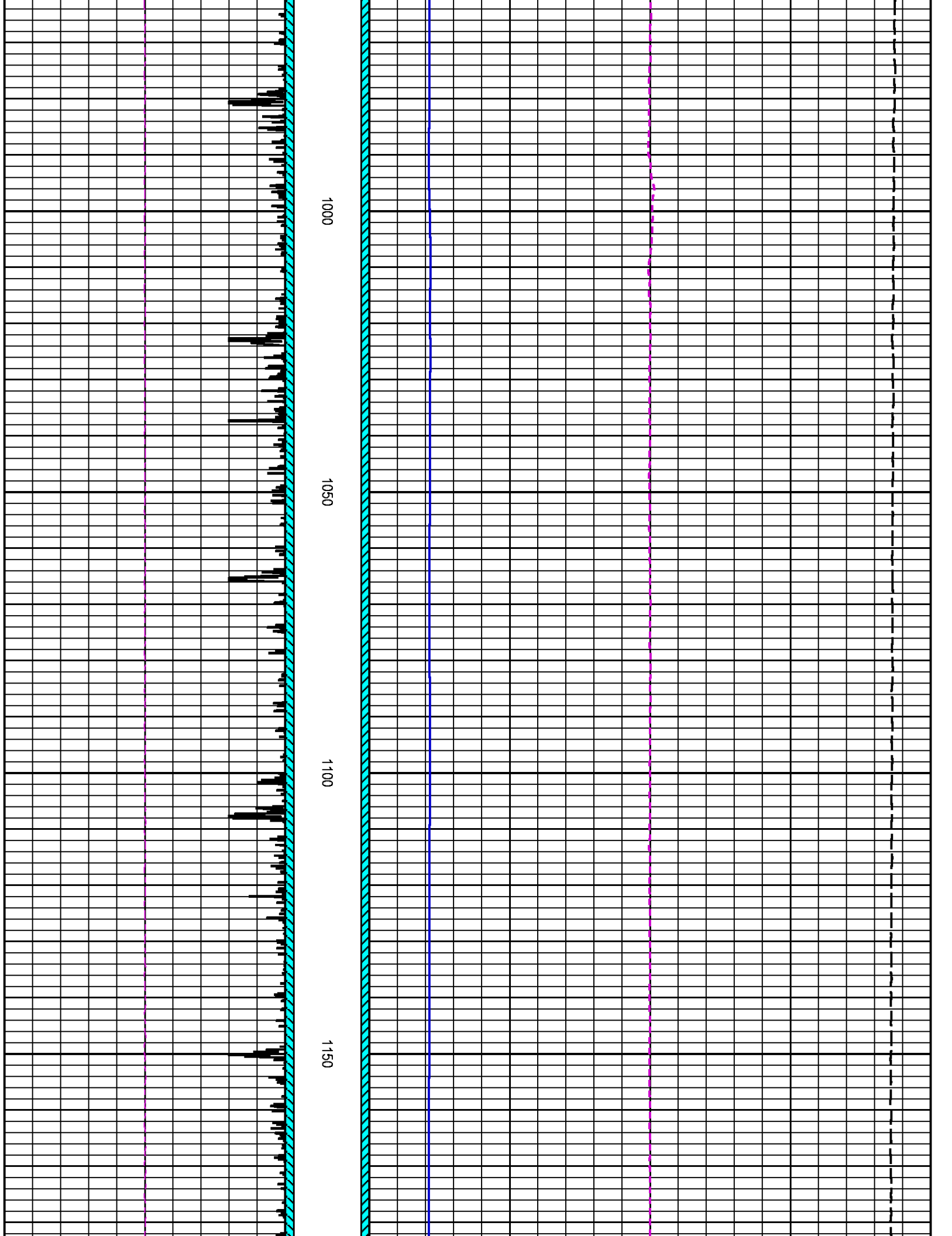


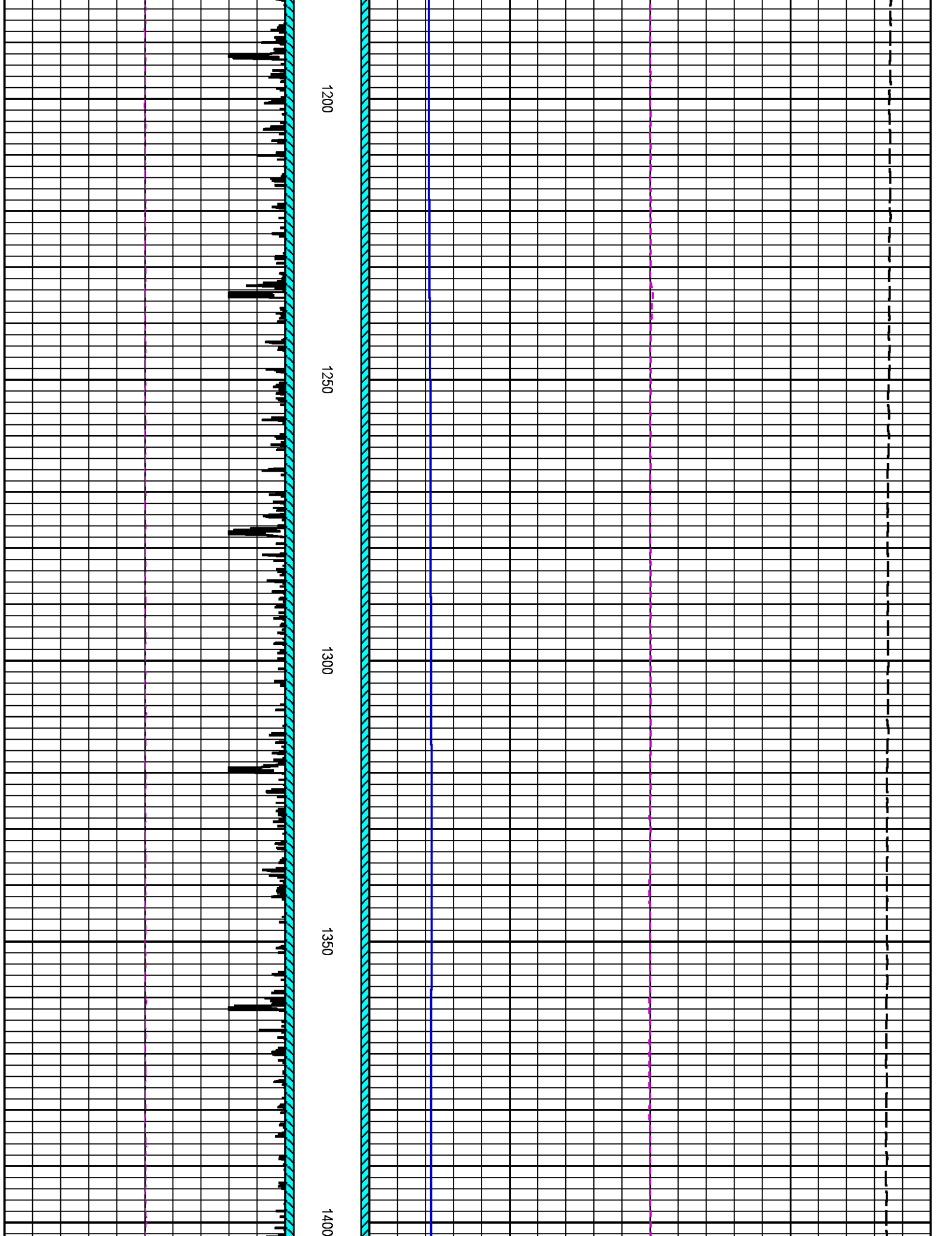


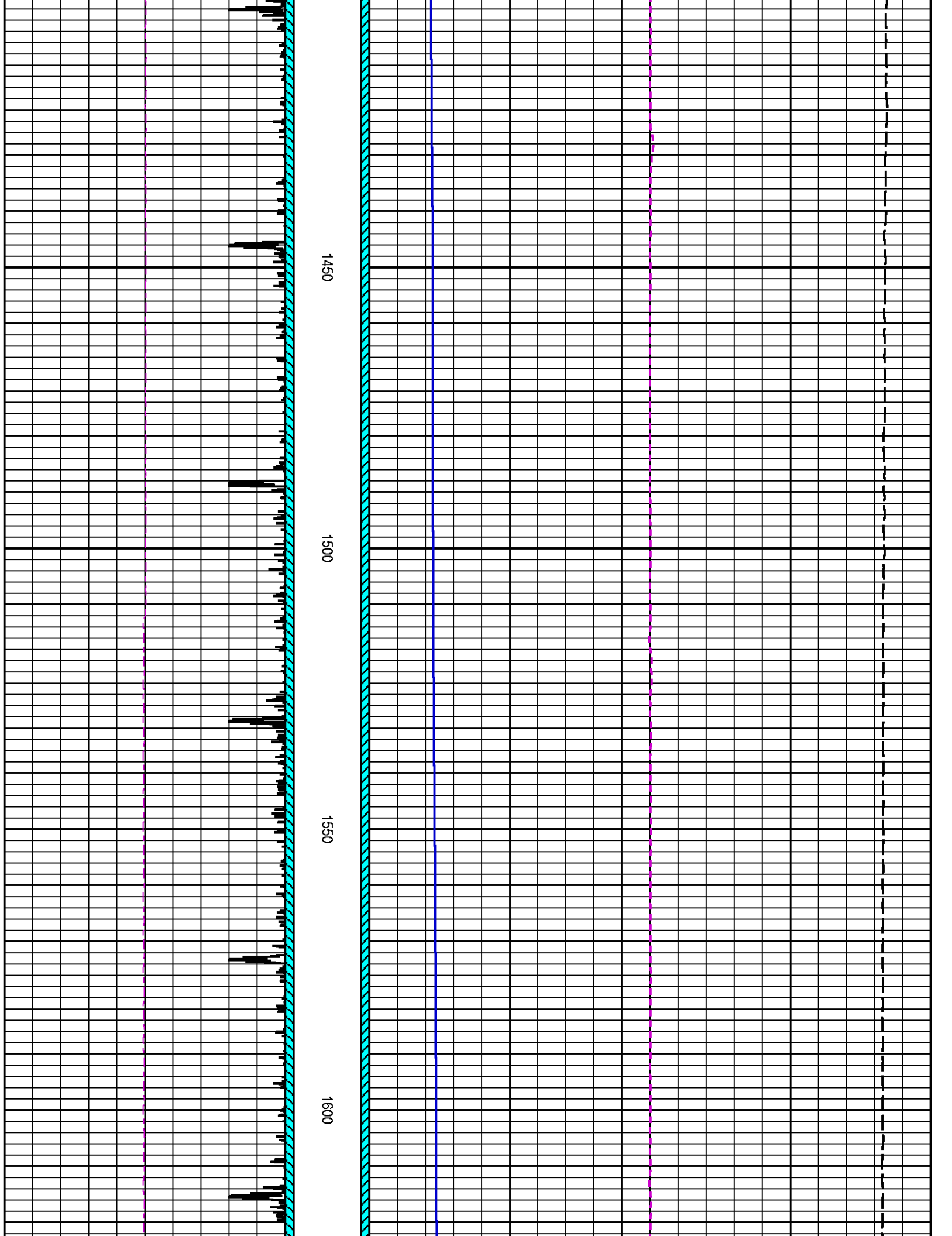


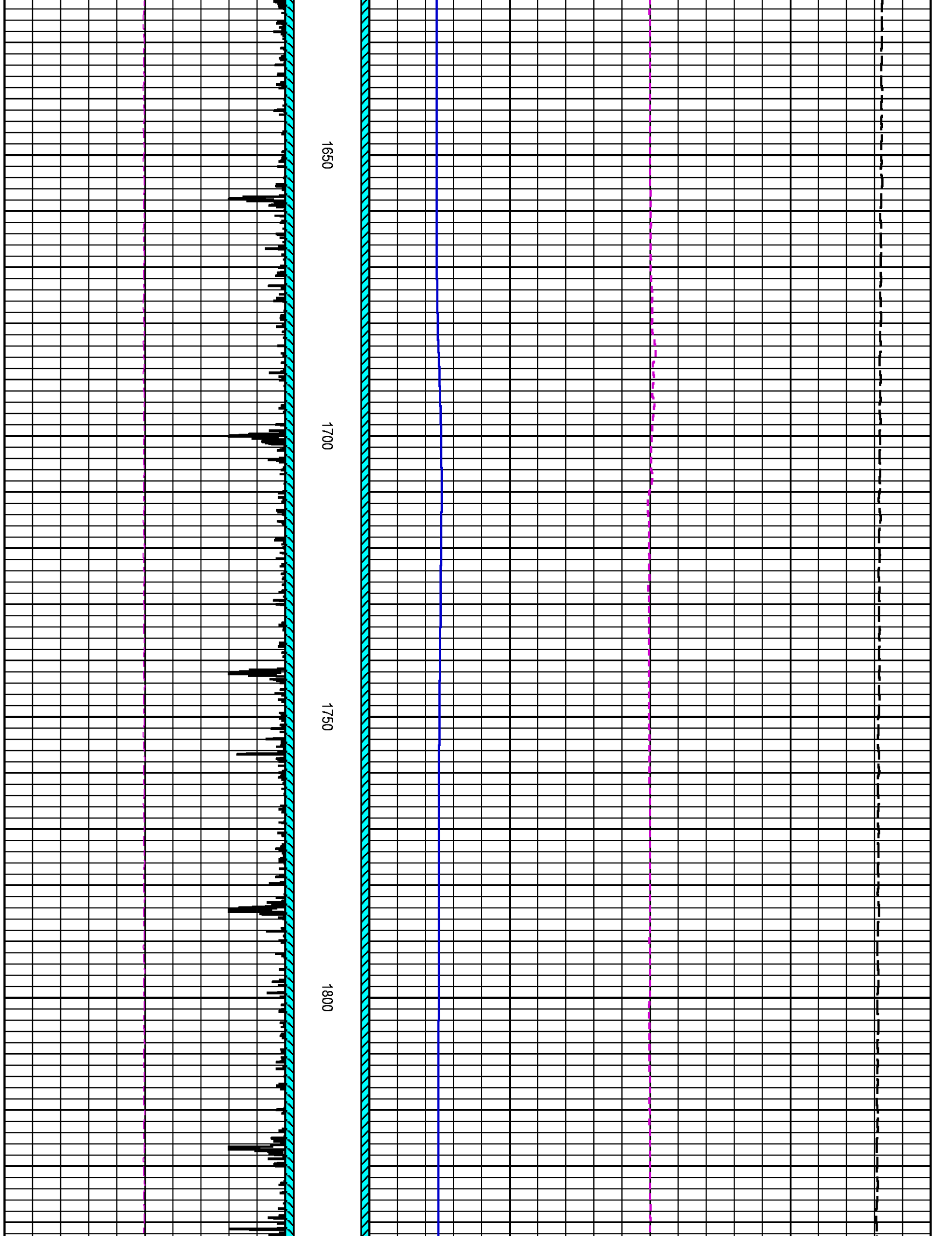


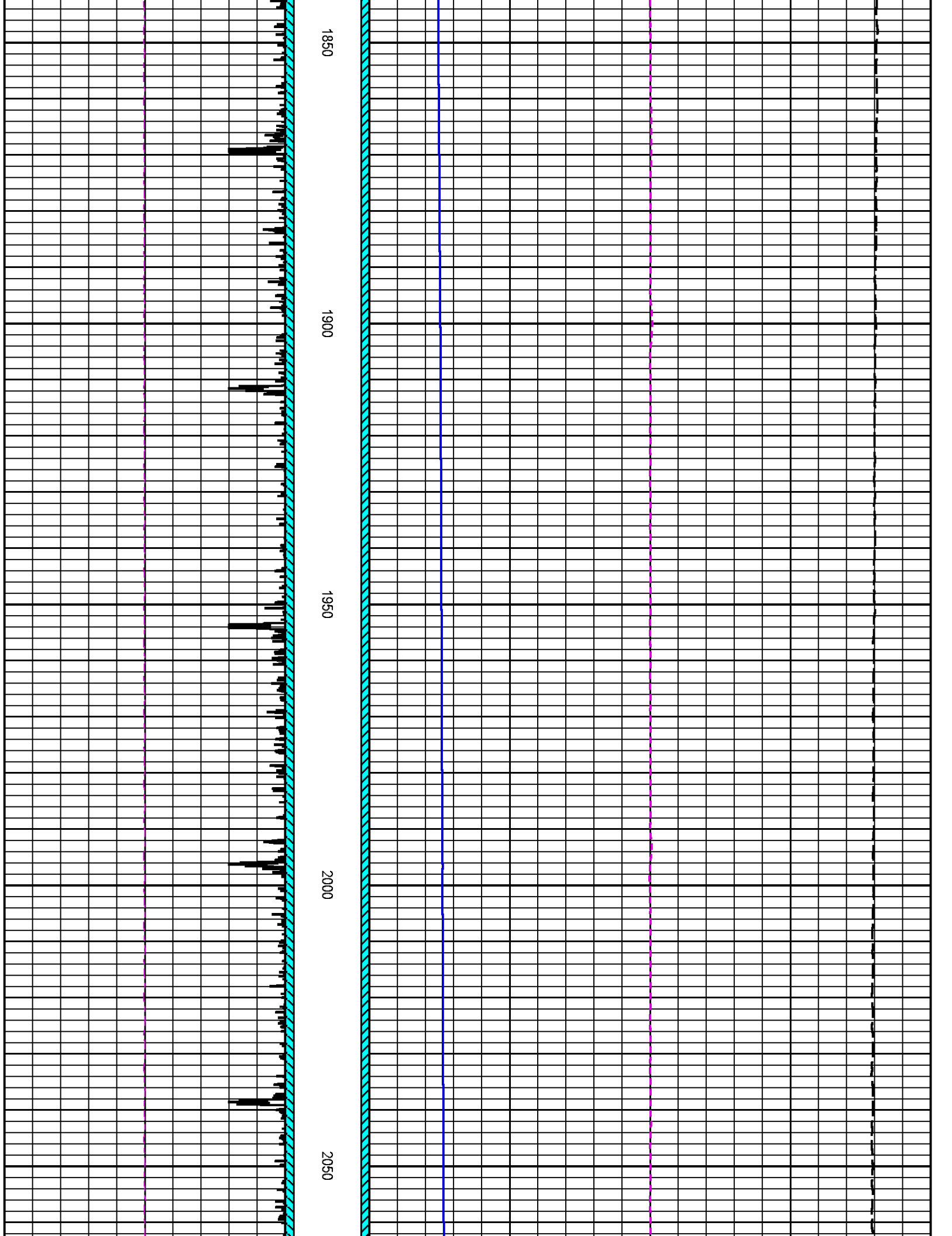


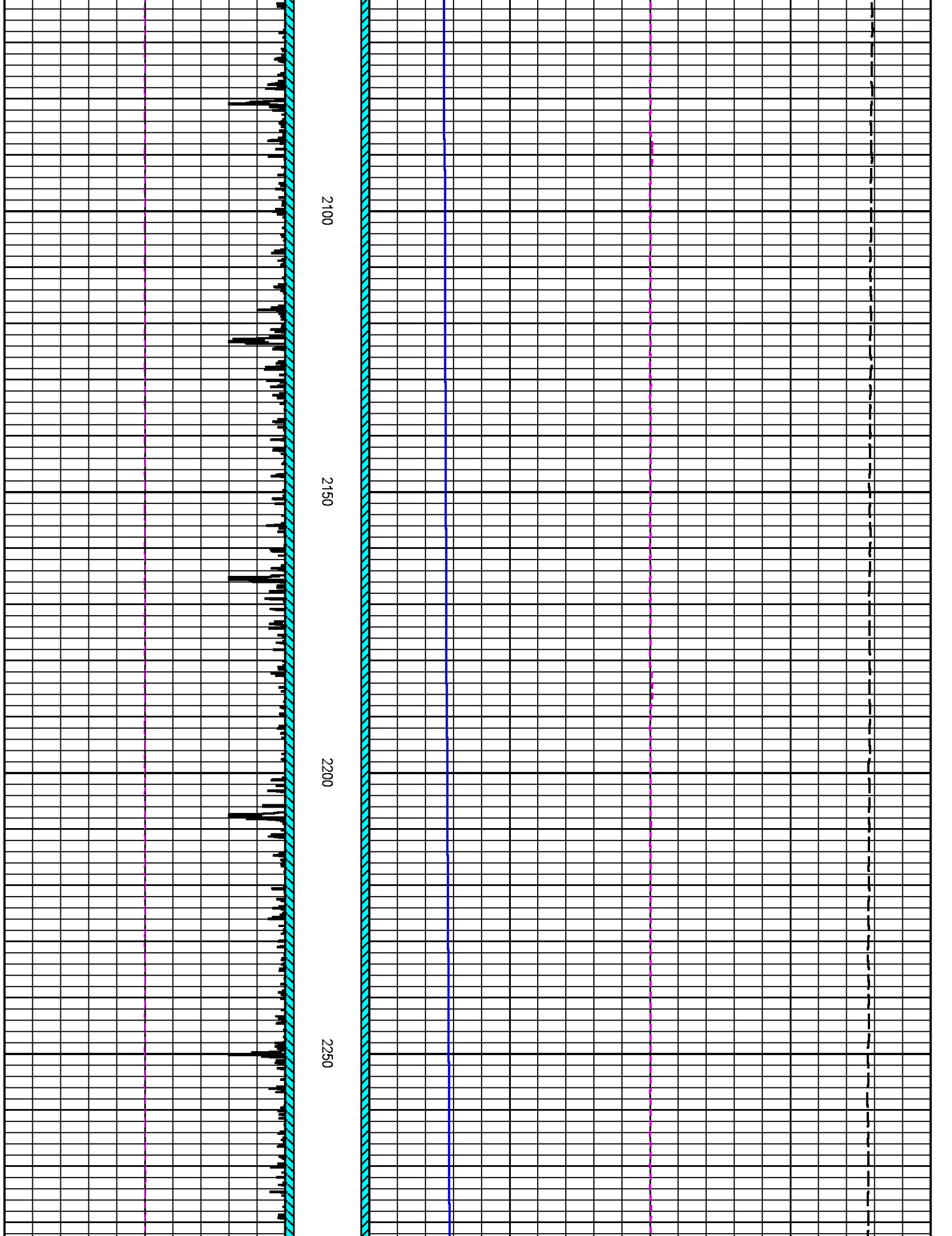


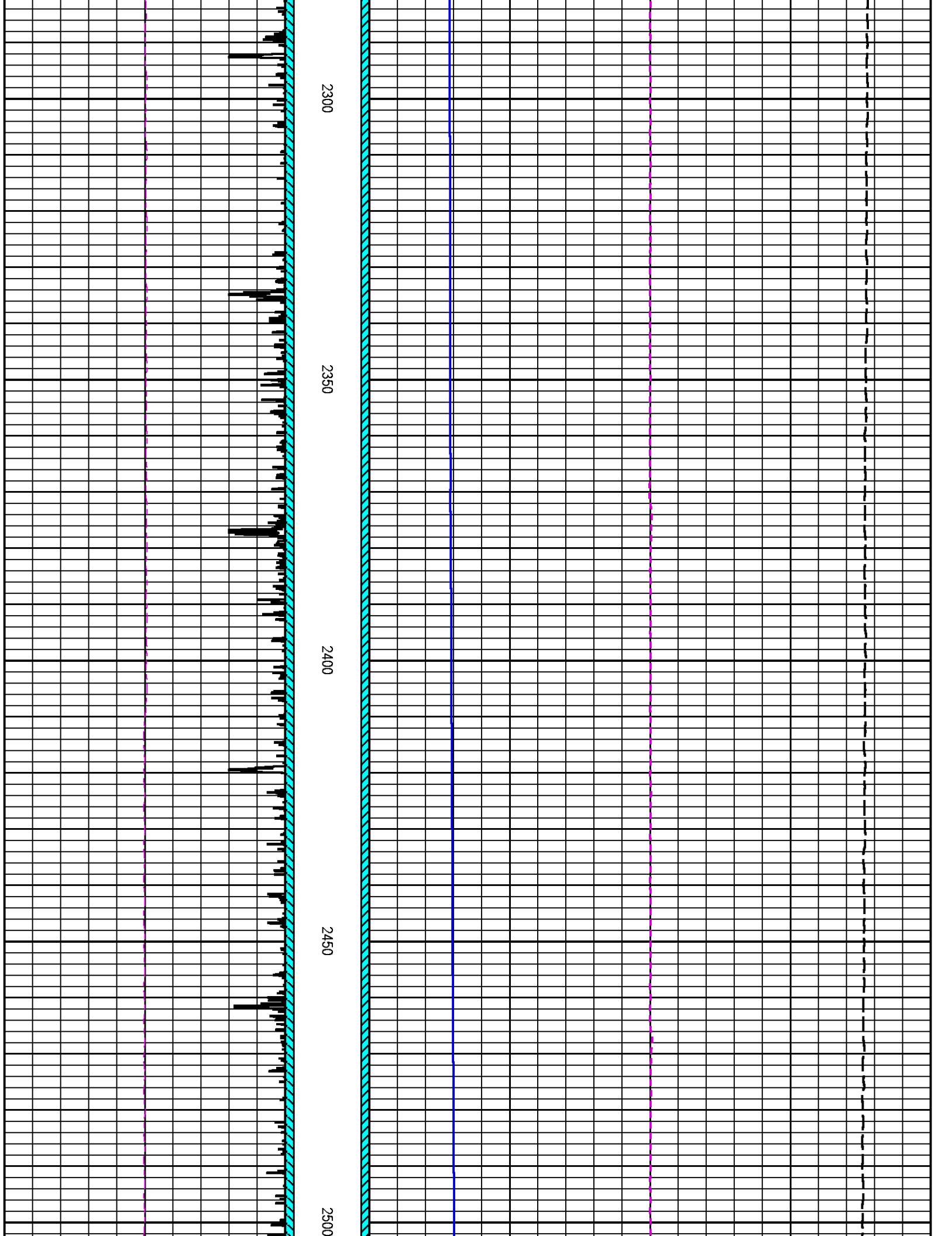


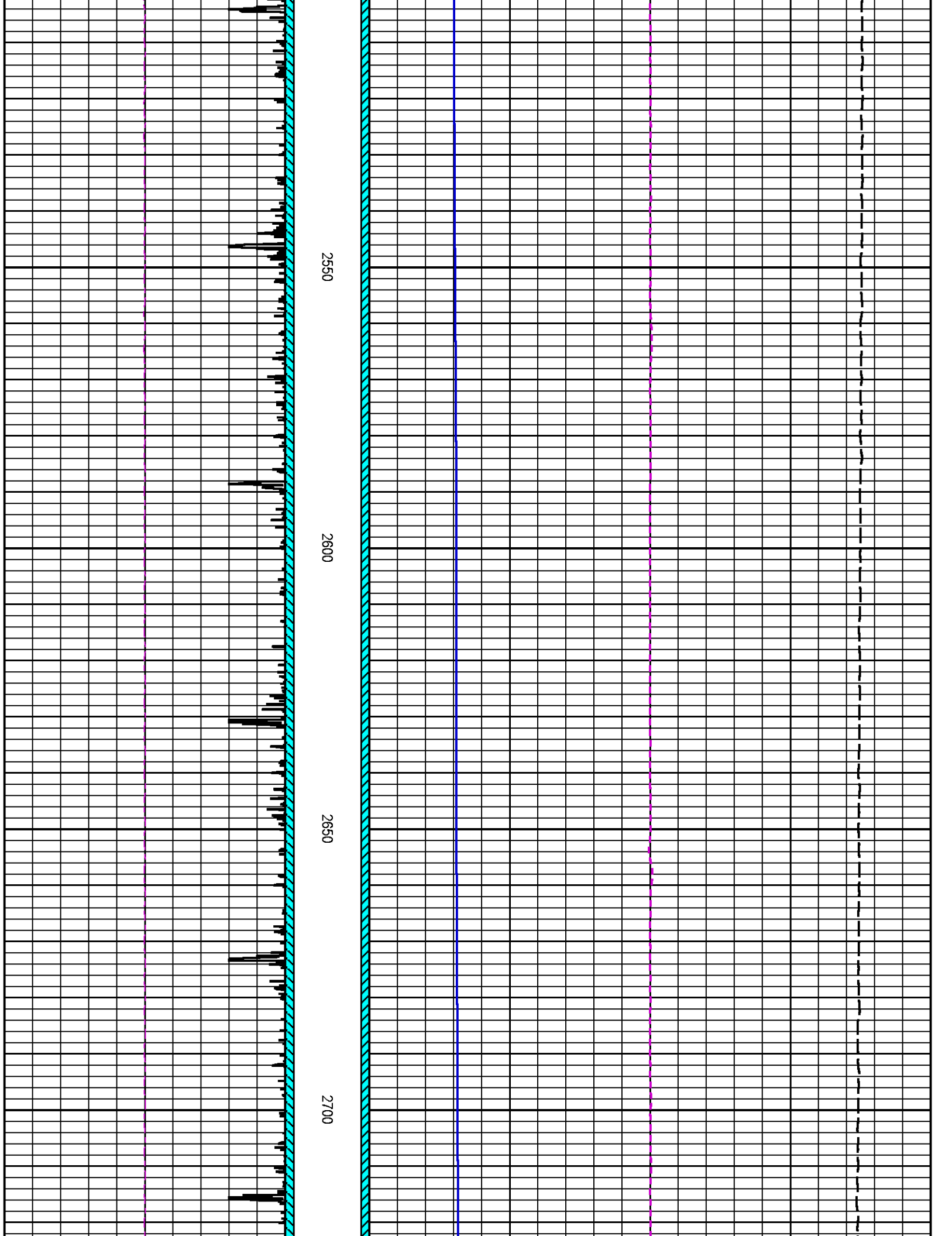


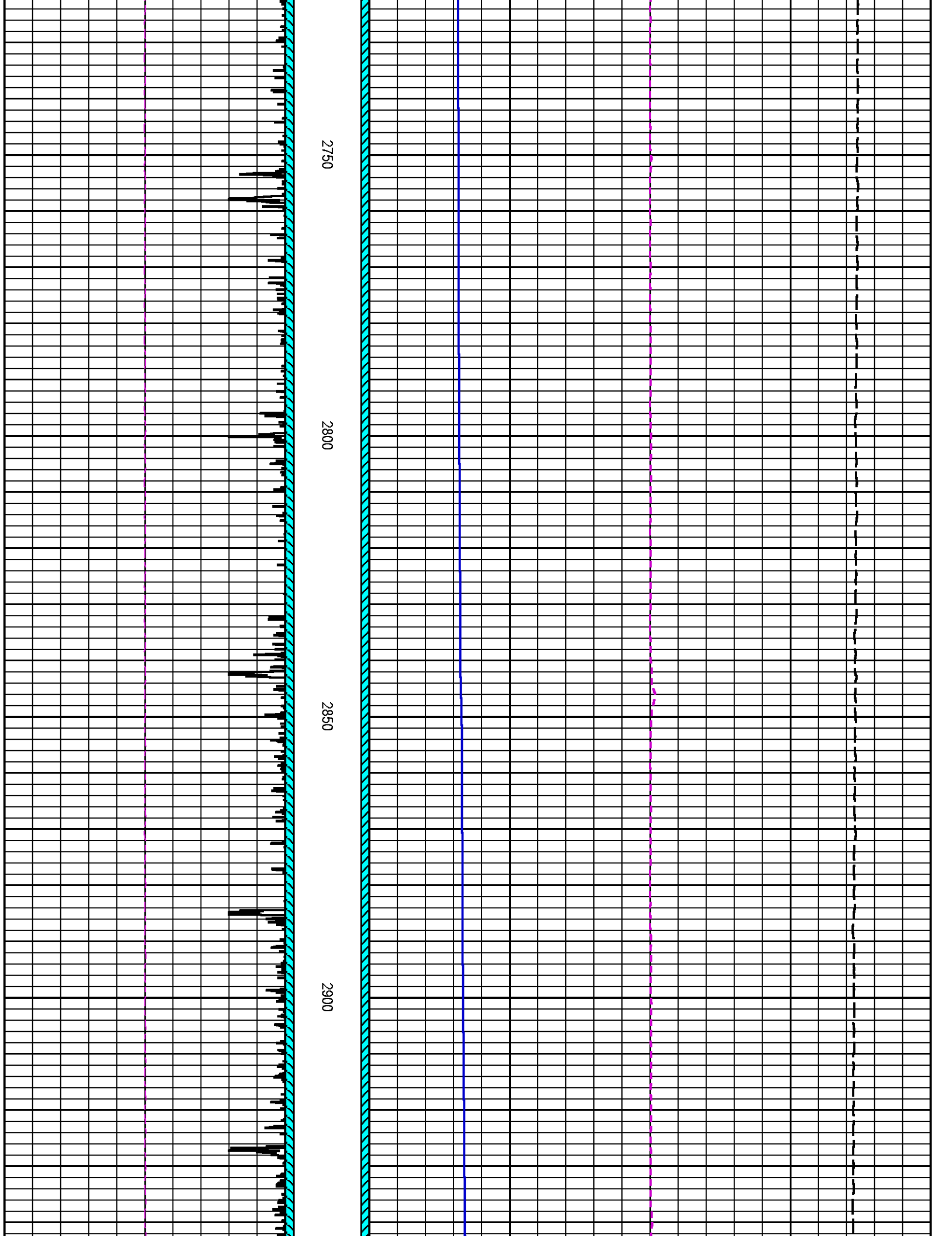


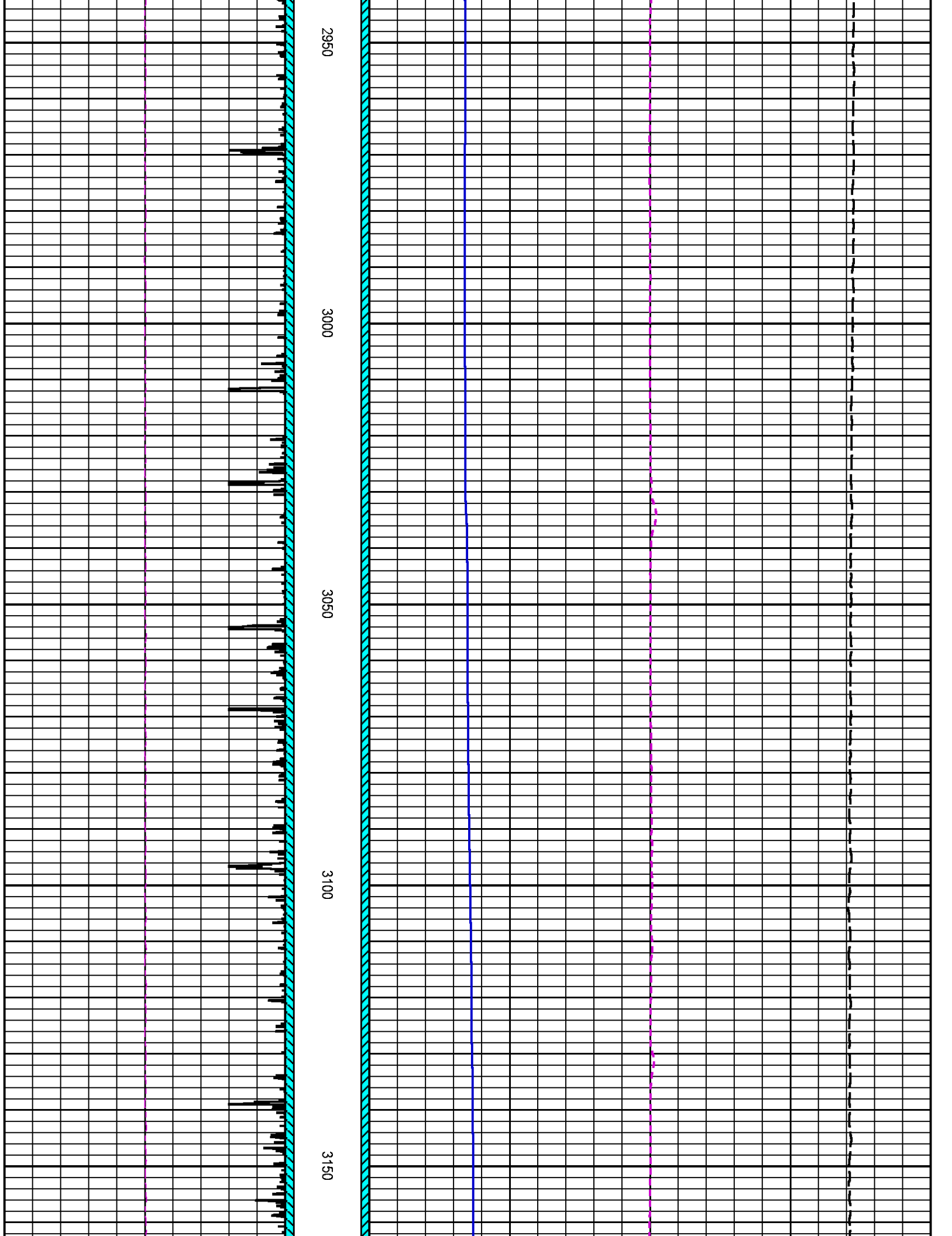


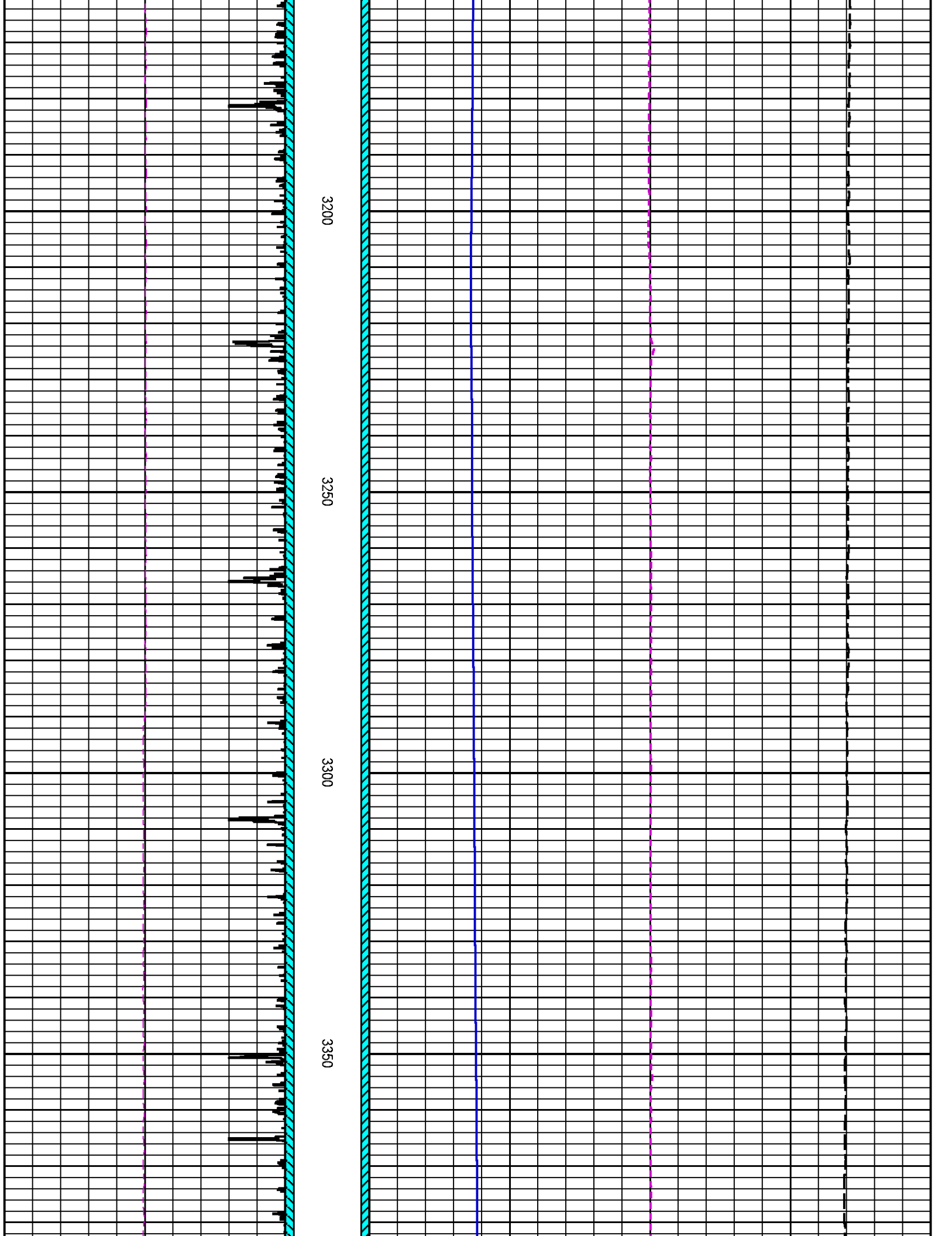


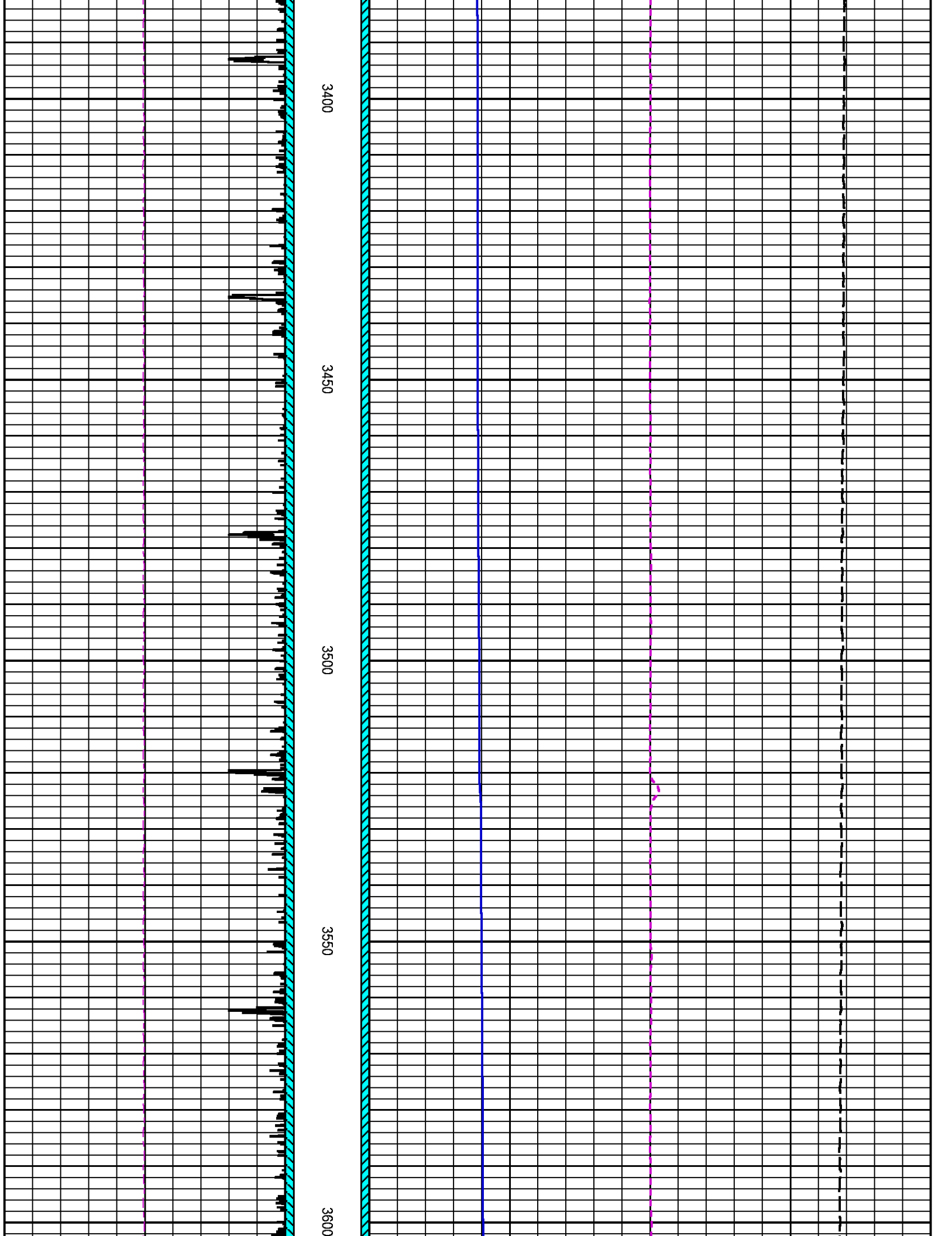


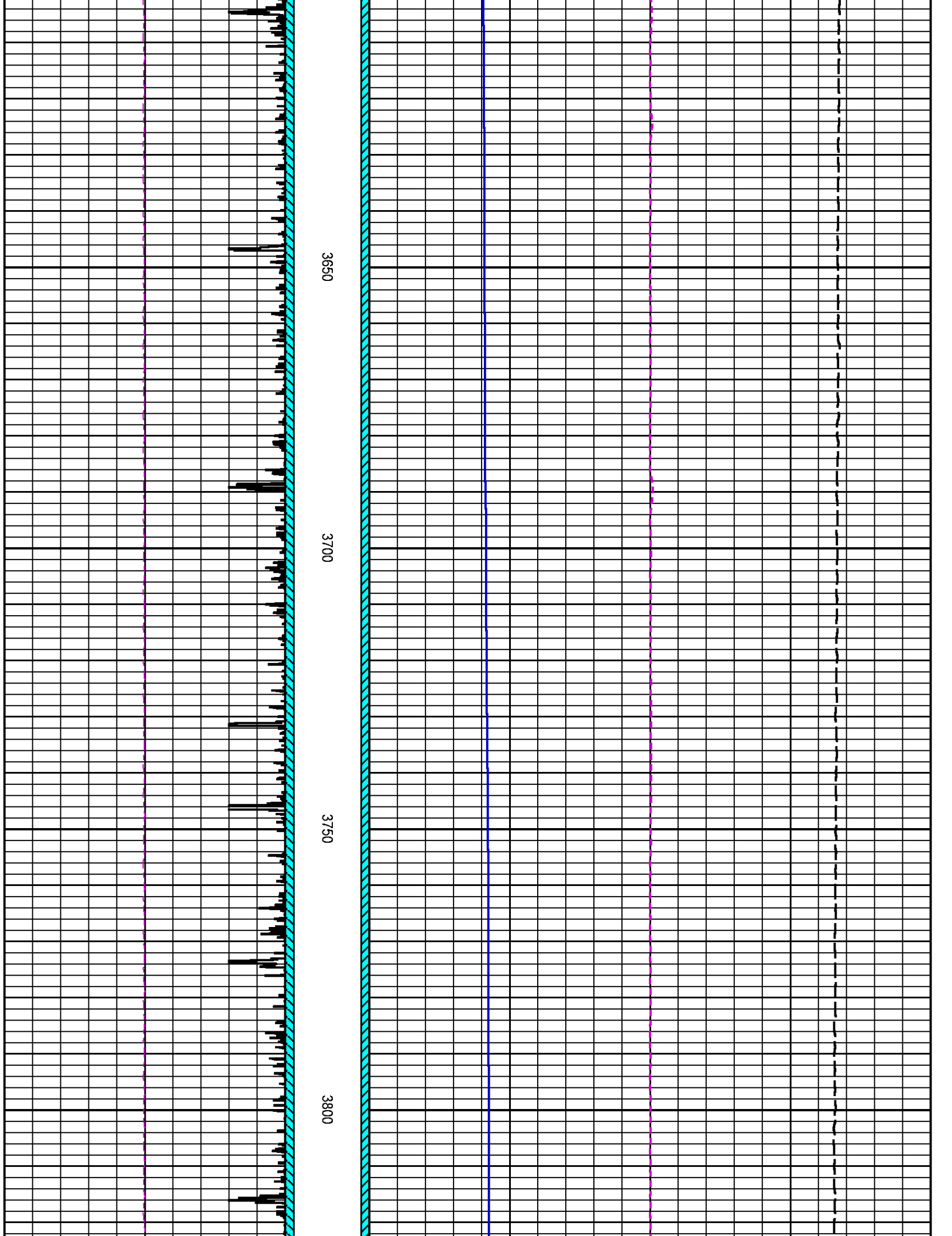


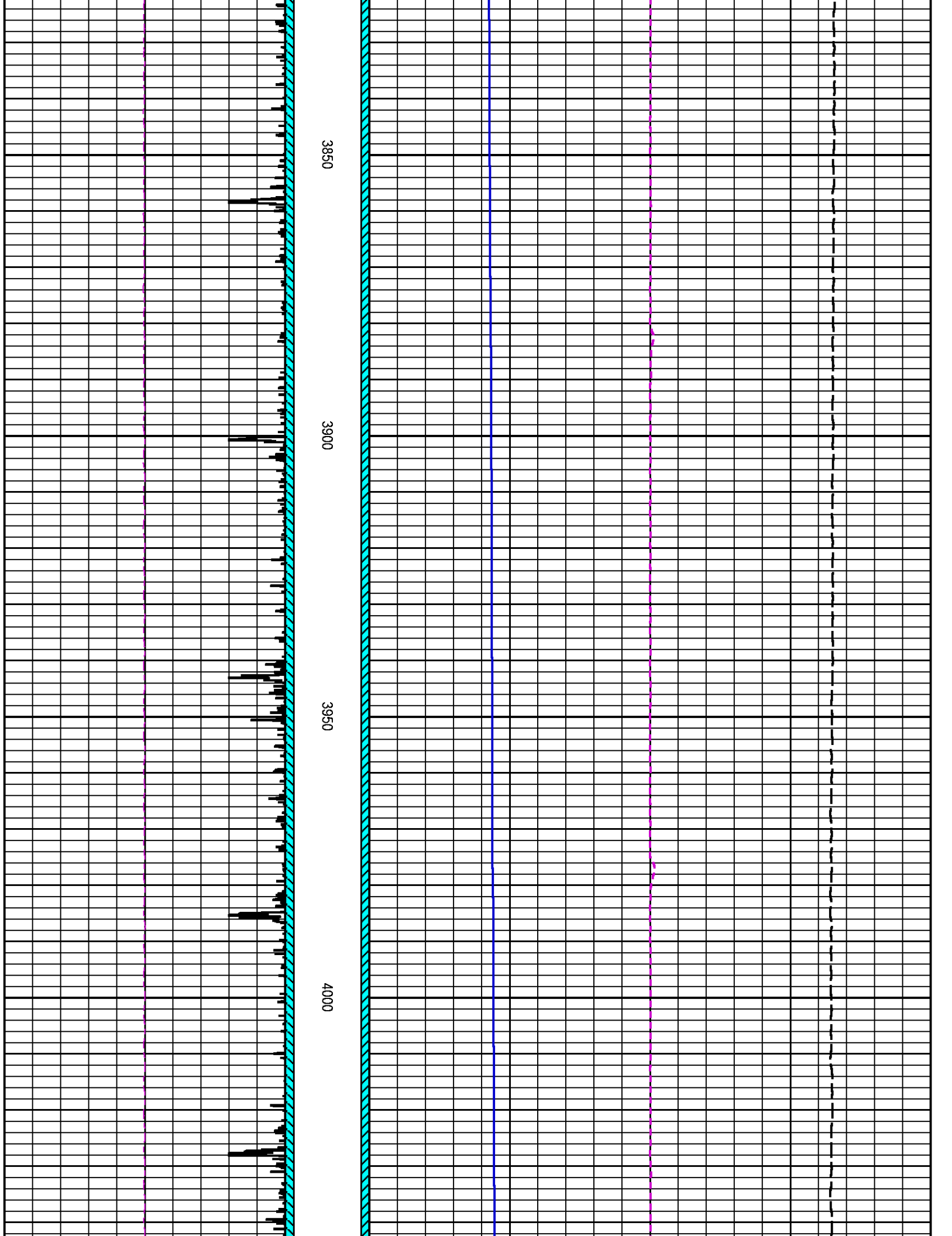


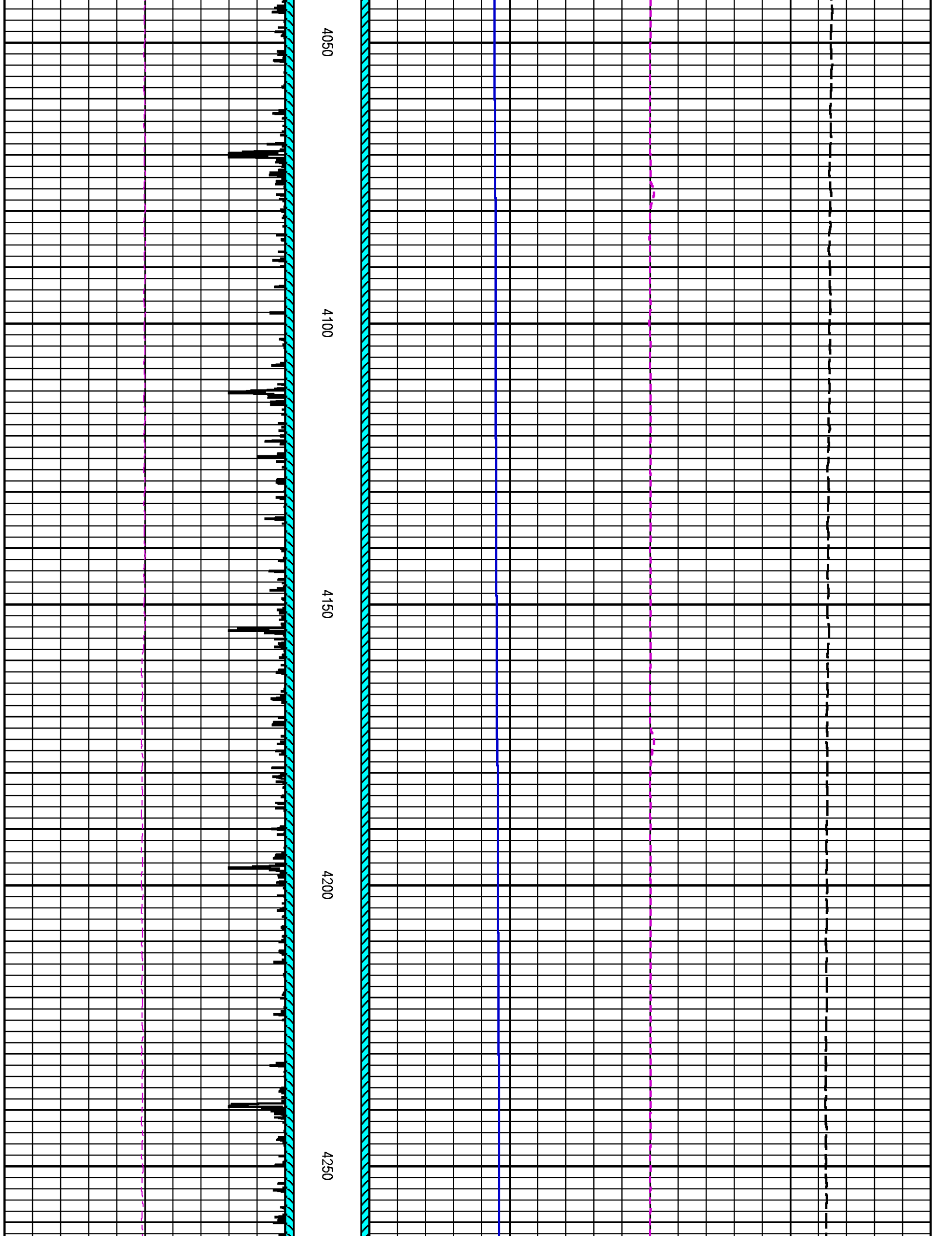


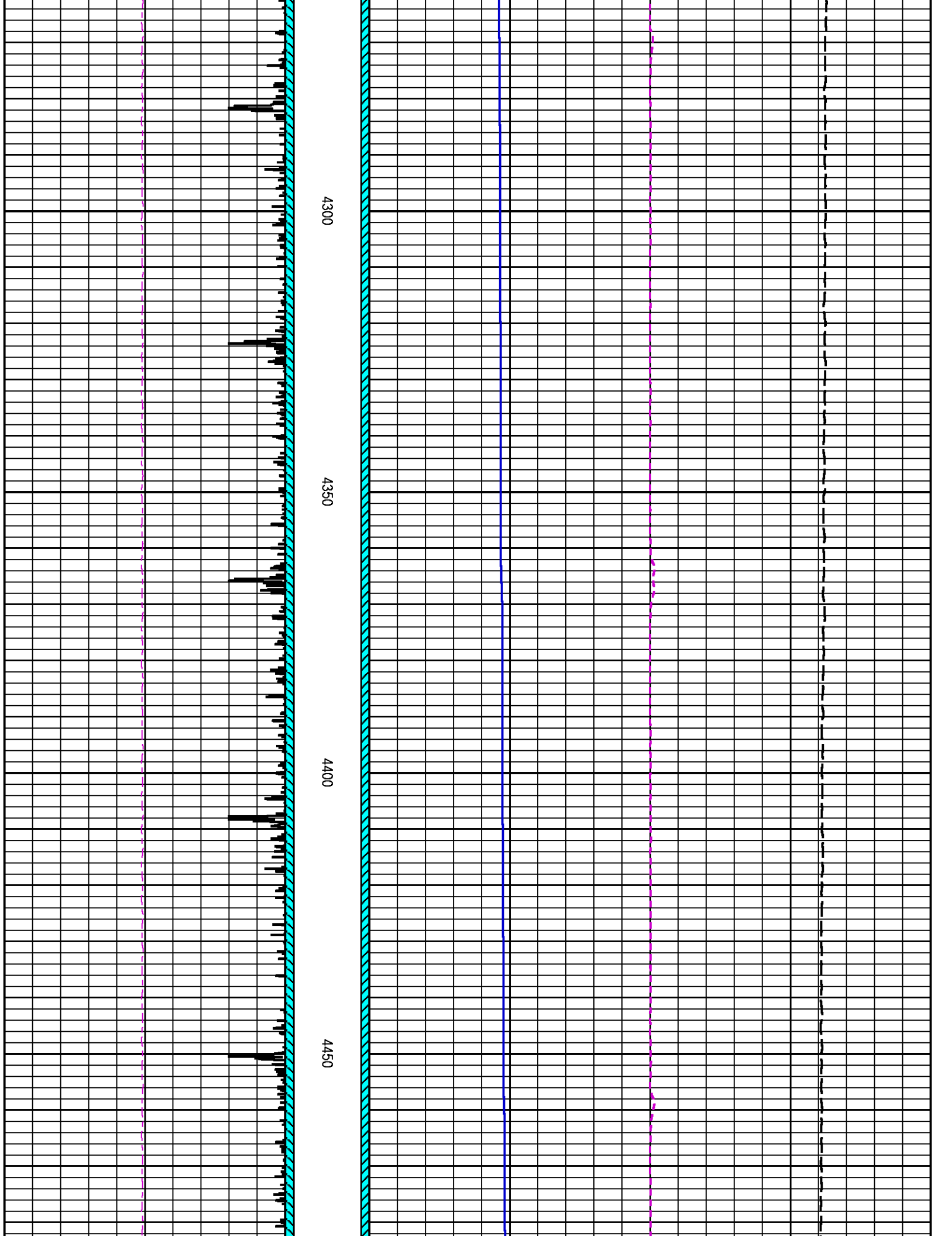


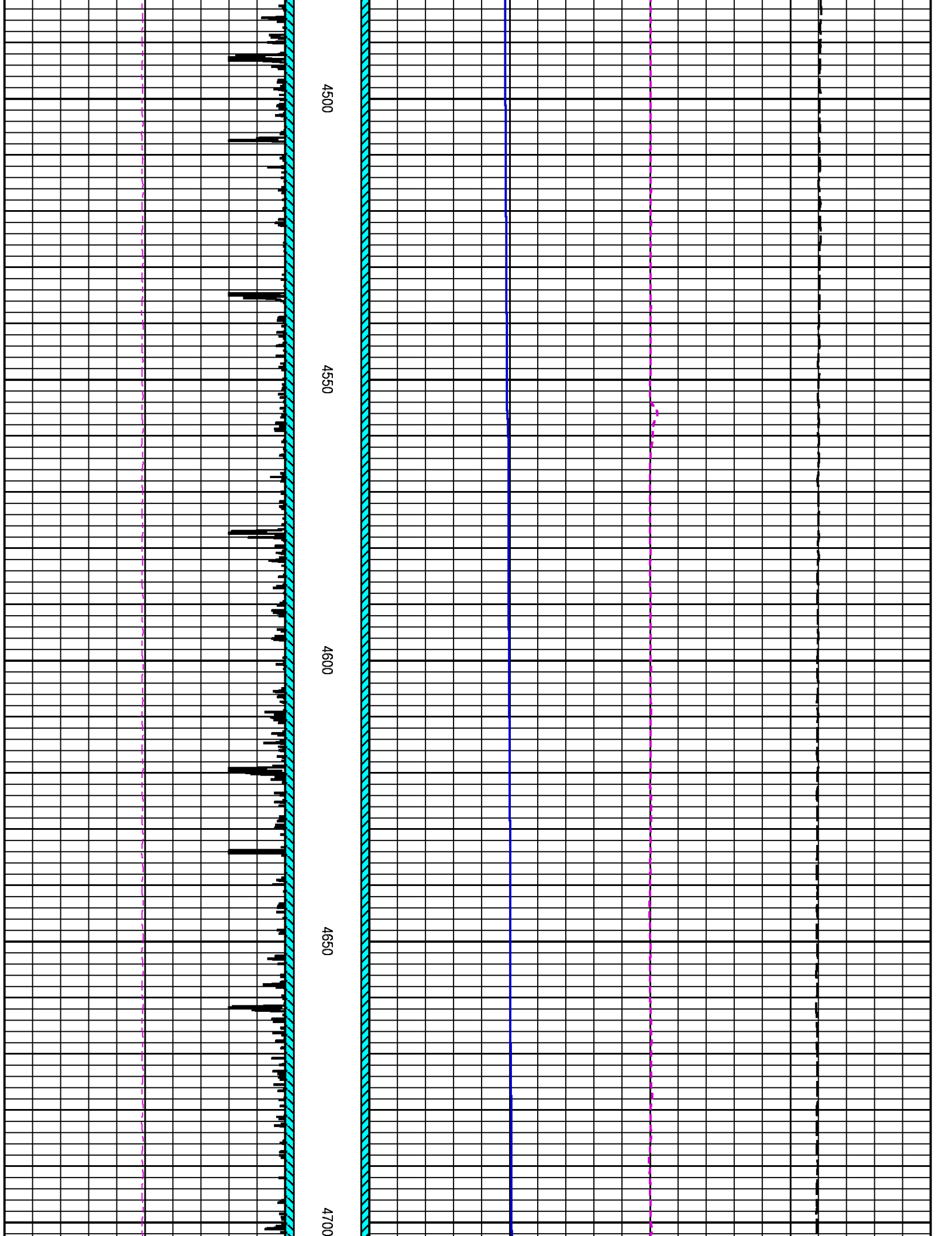


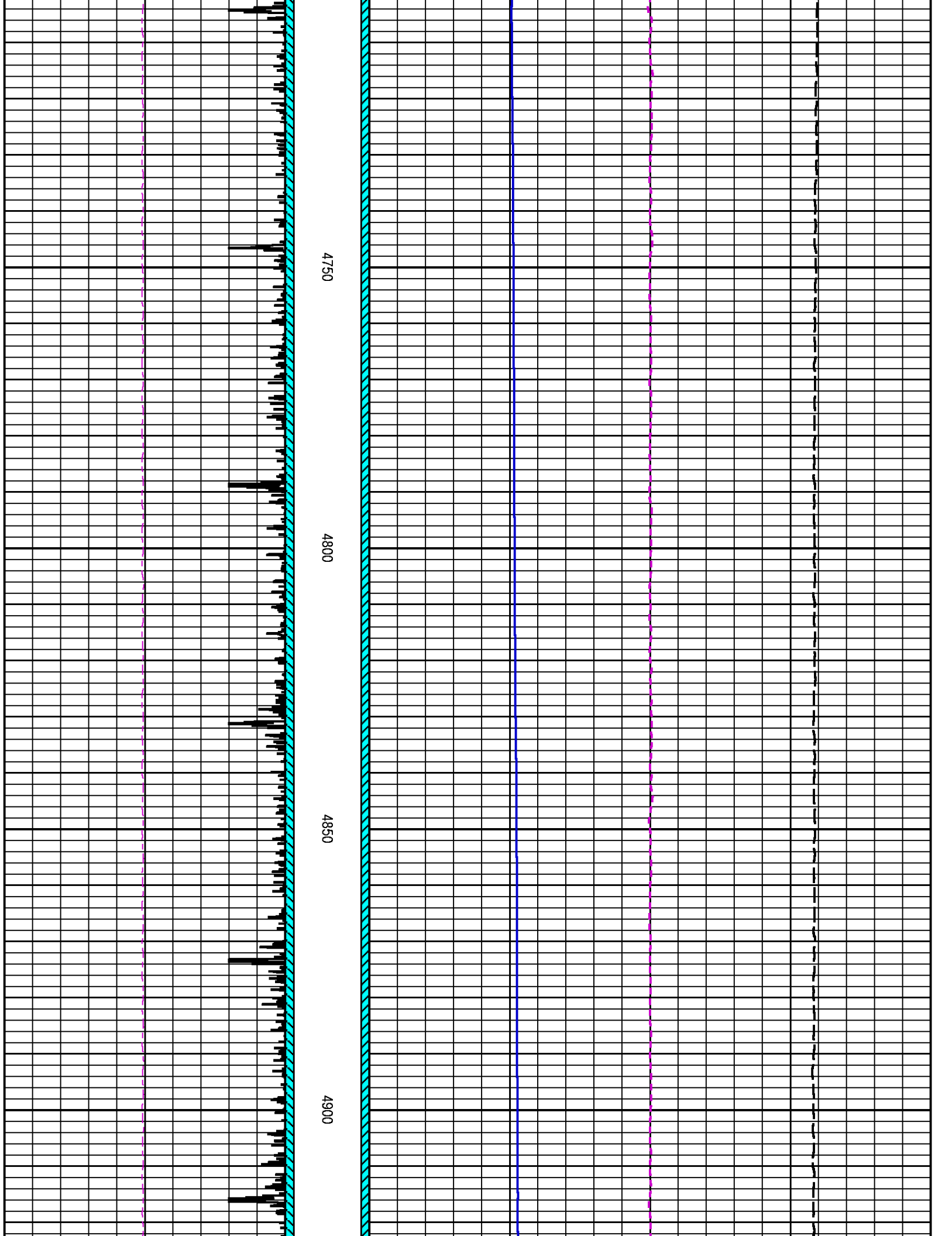


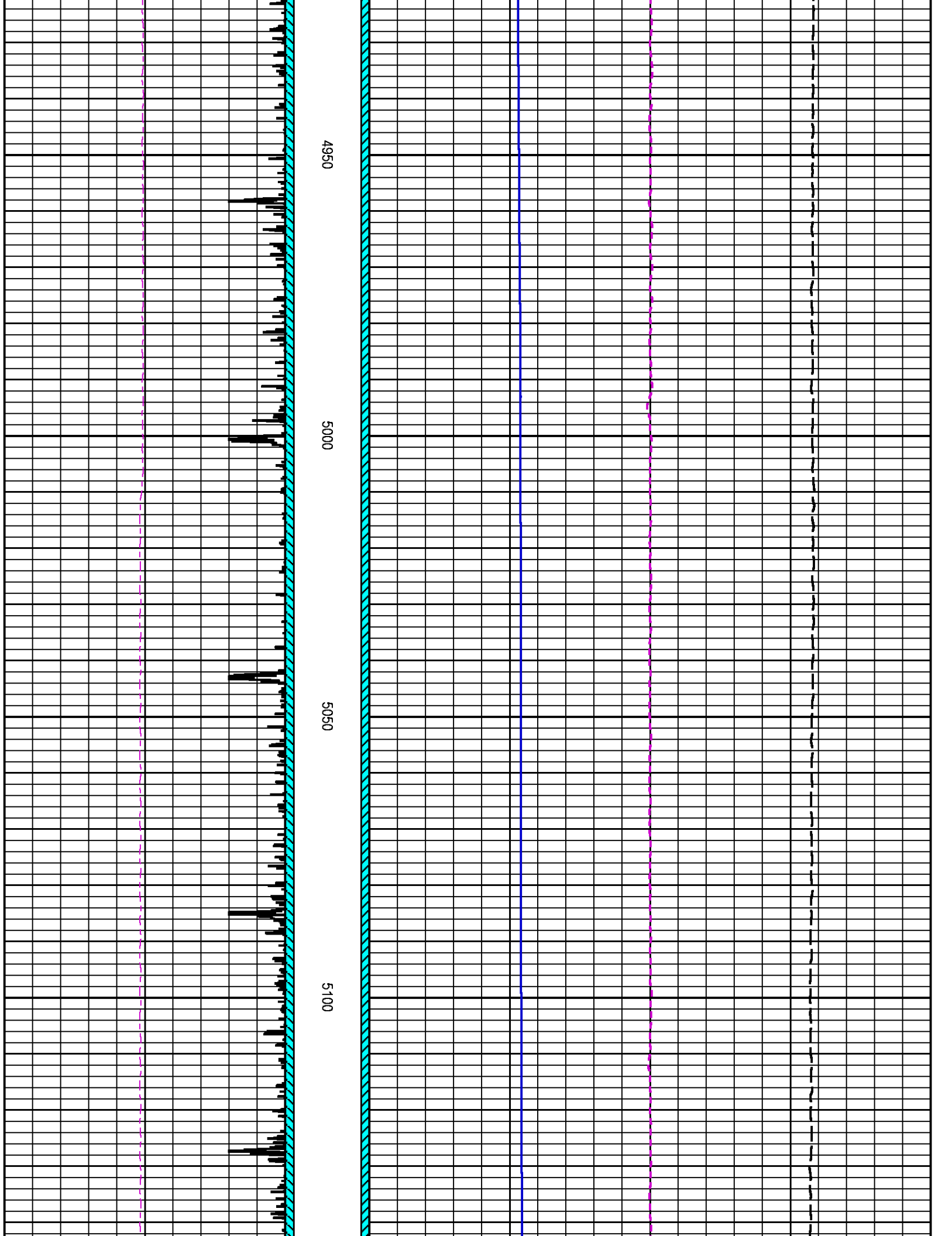


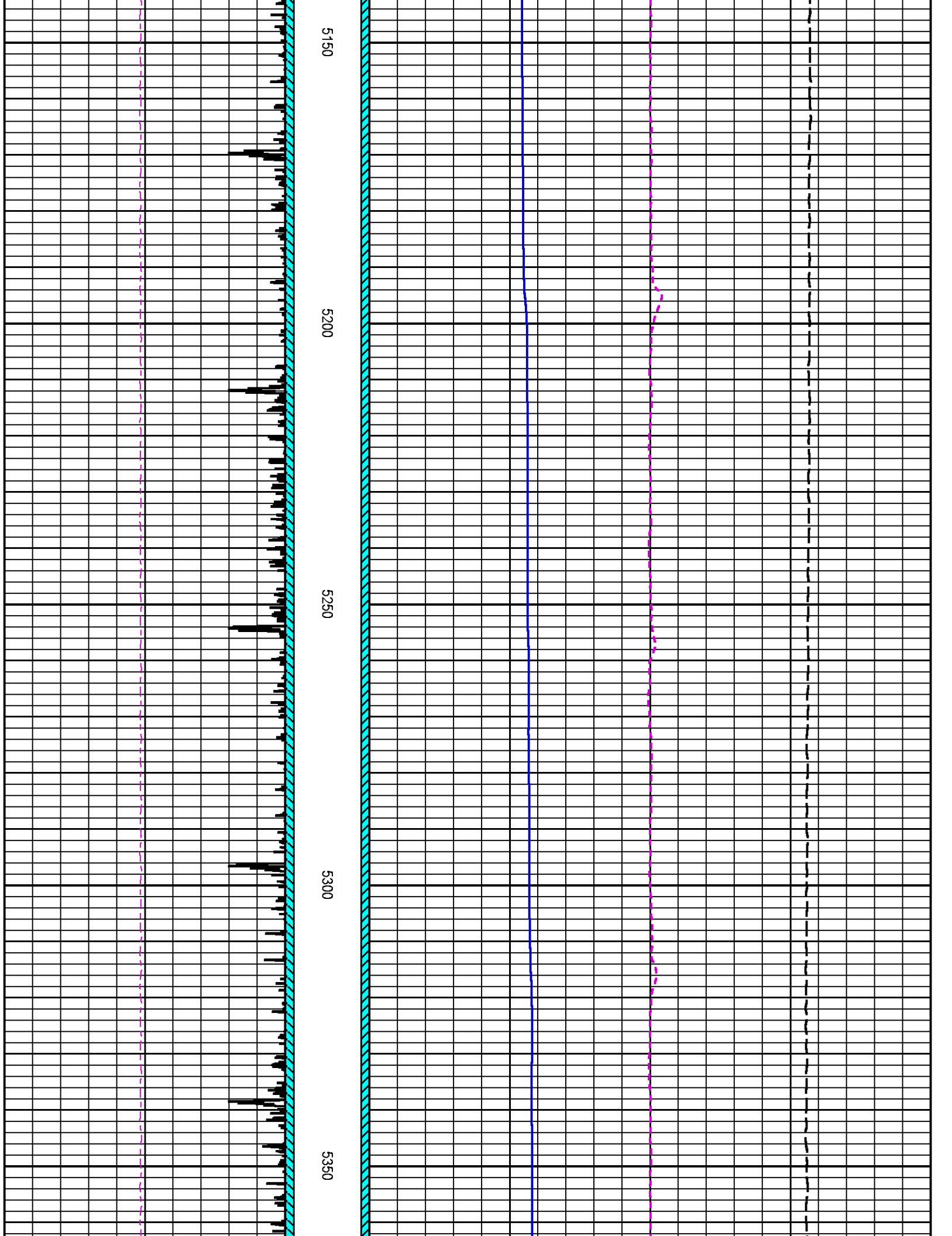


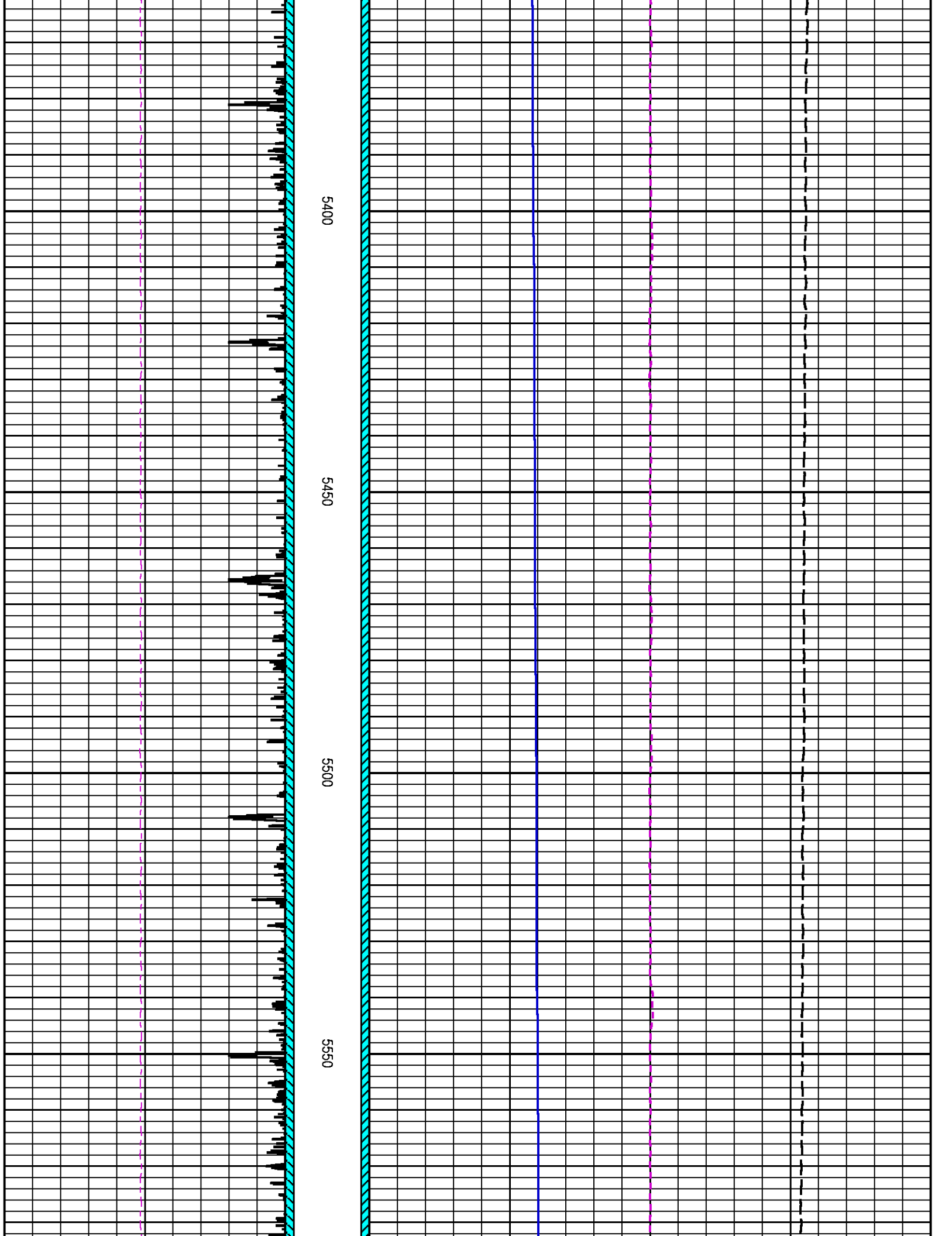


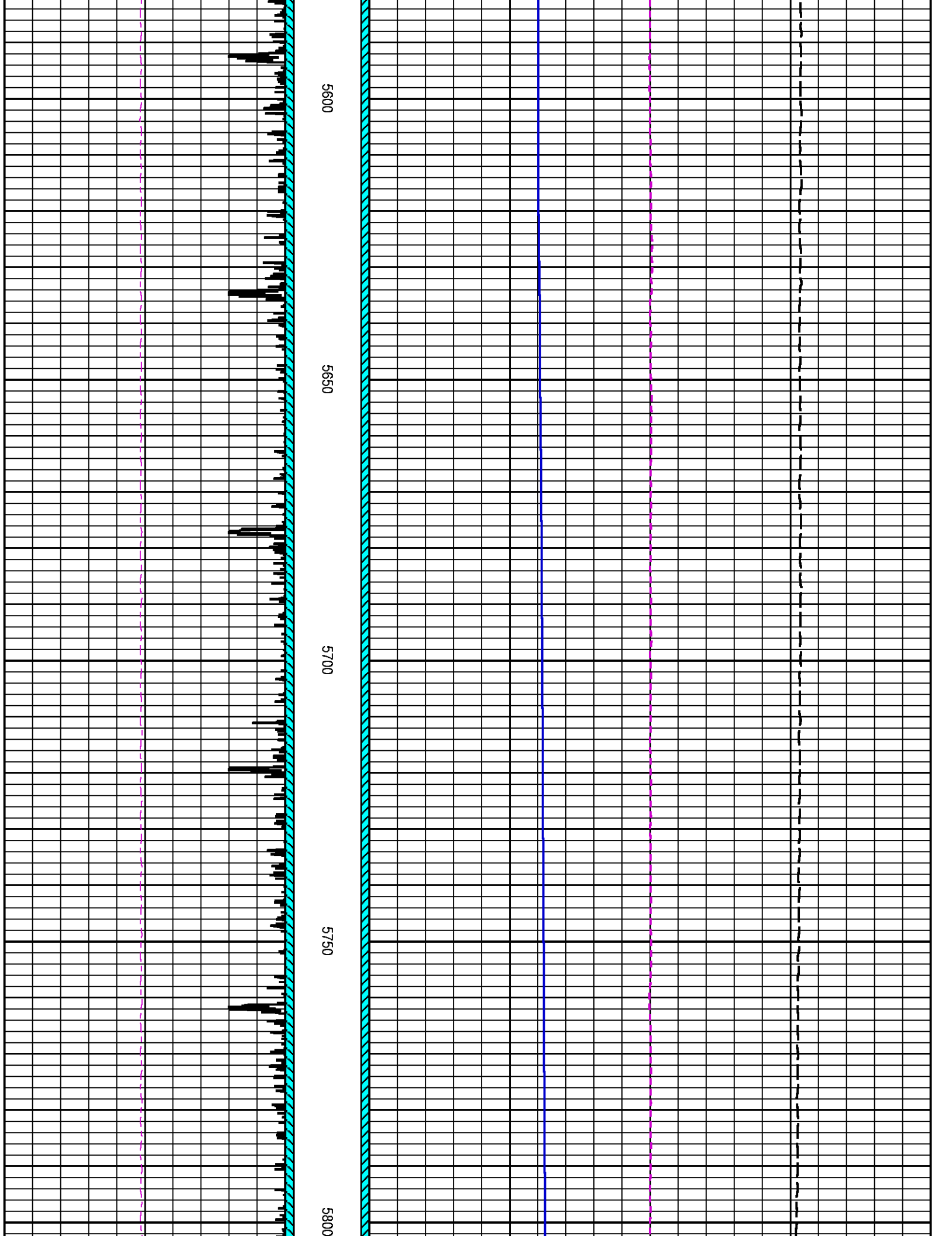


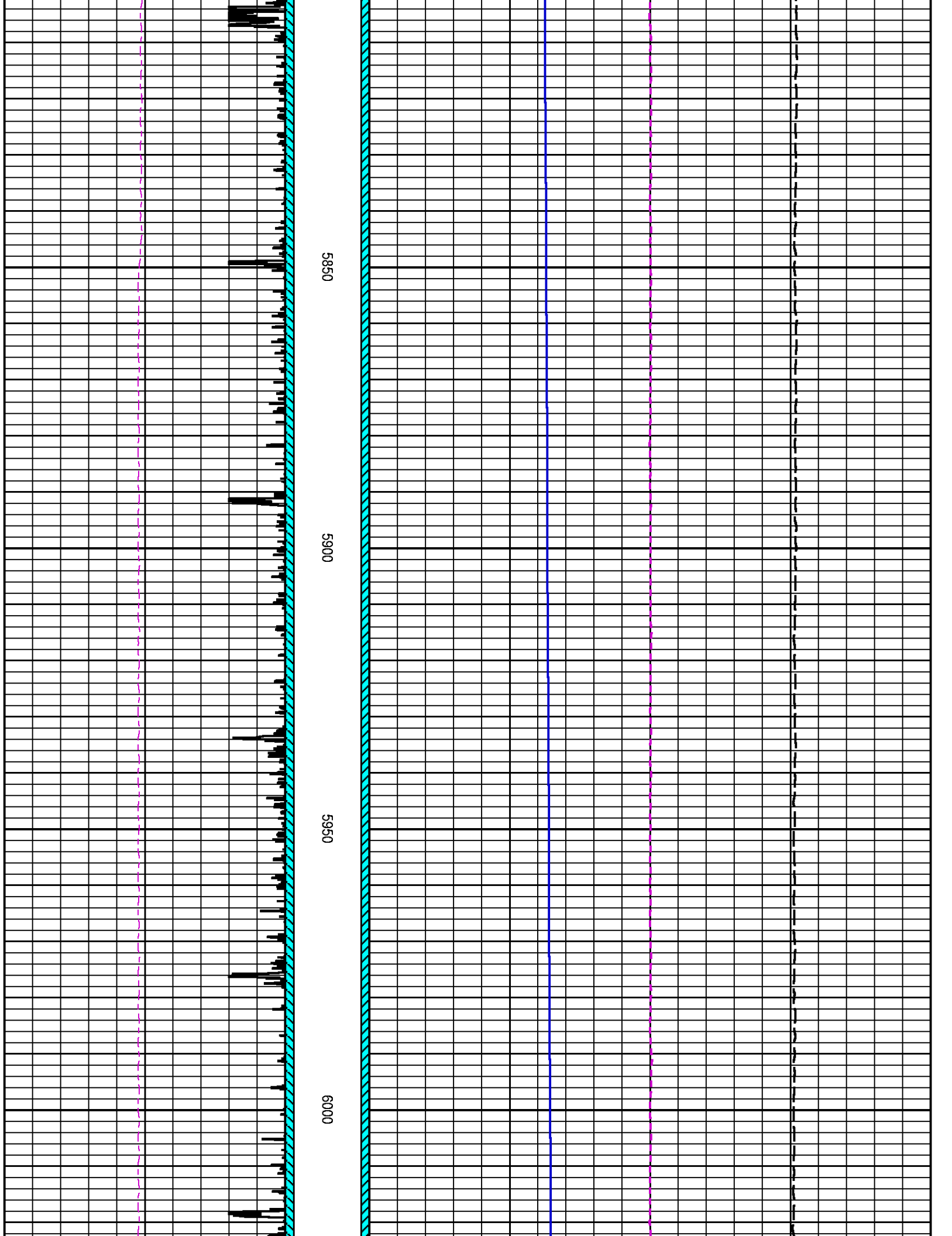


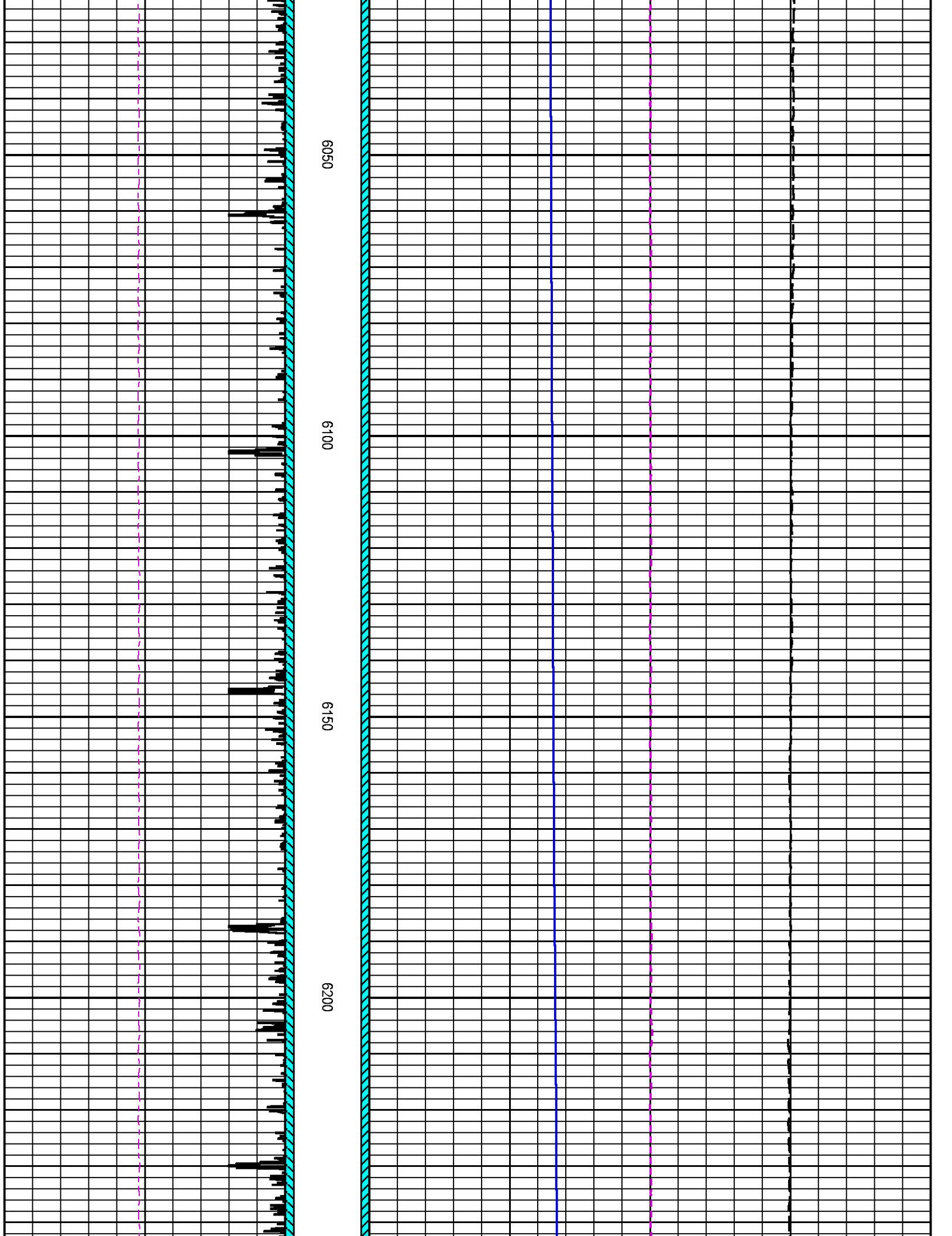












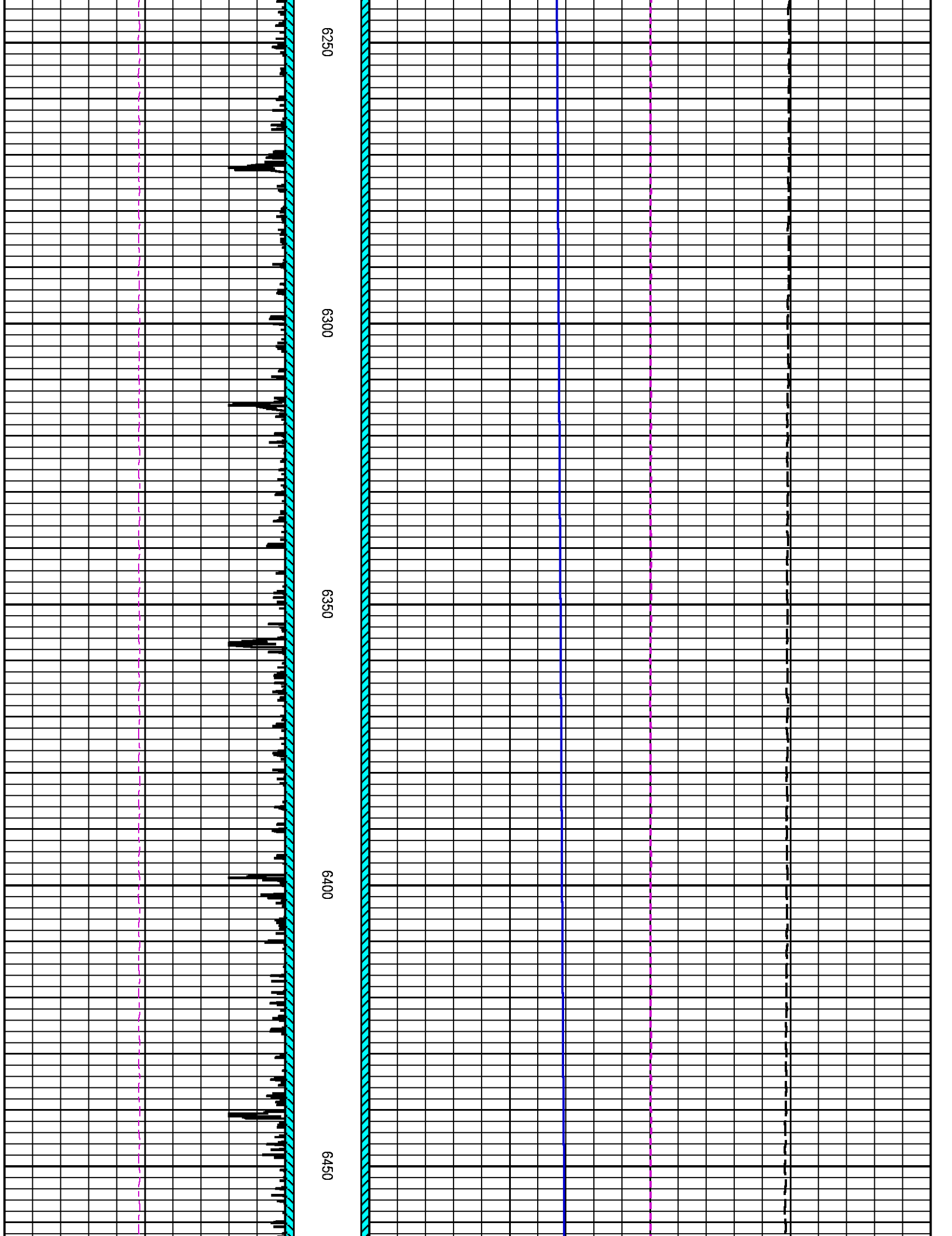
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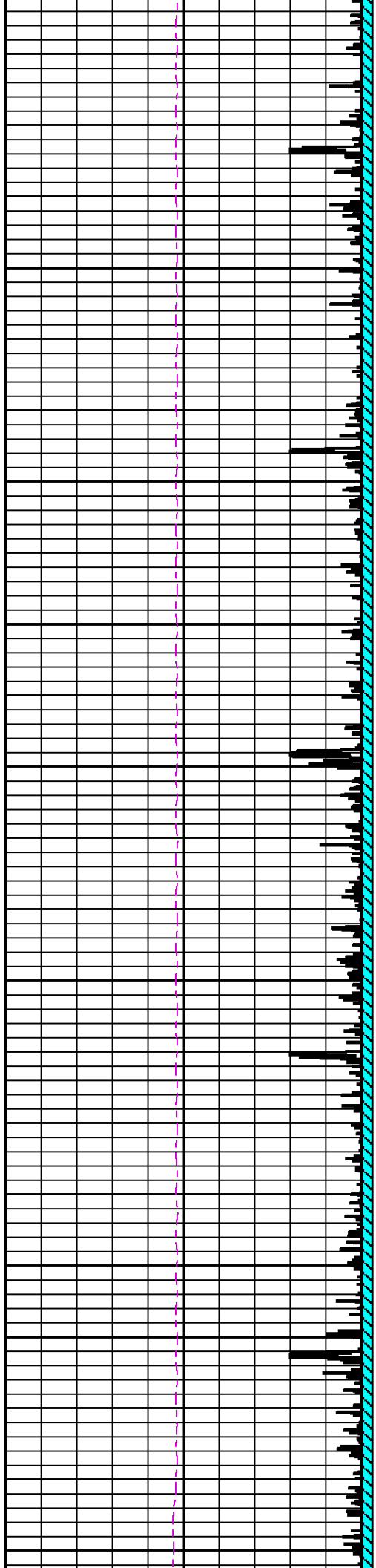
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6450



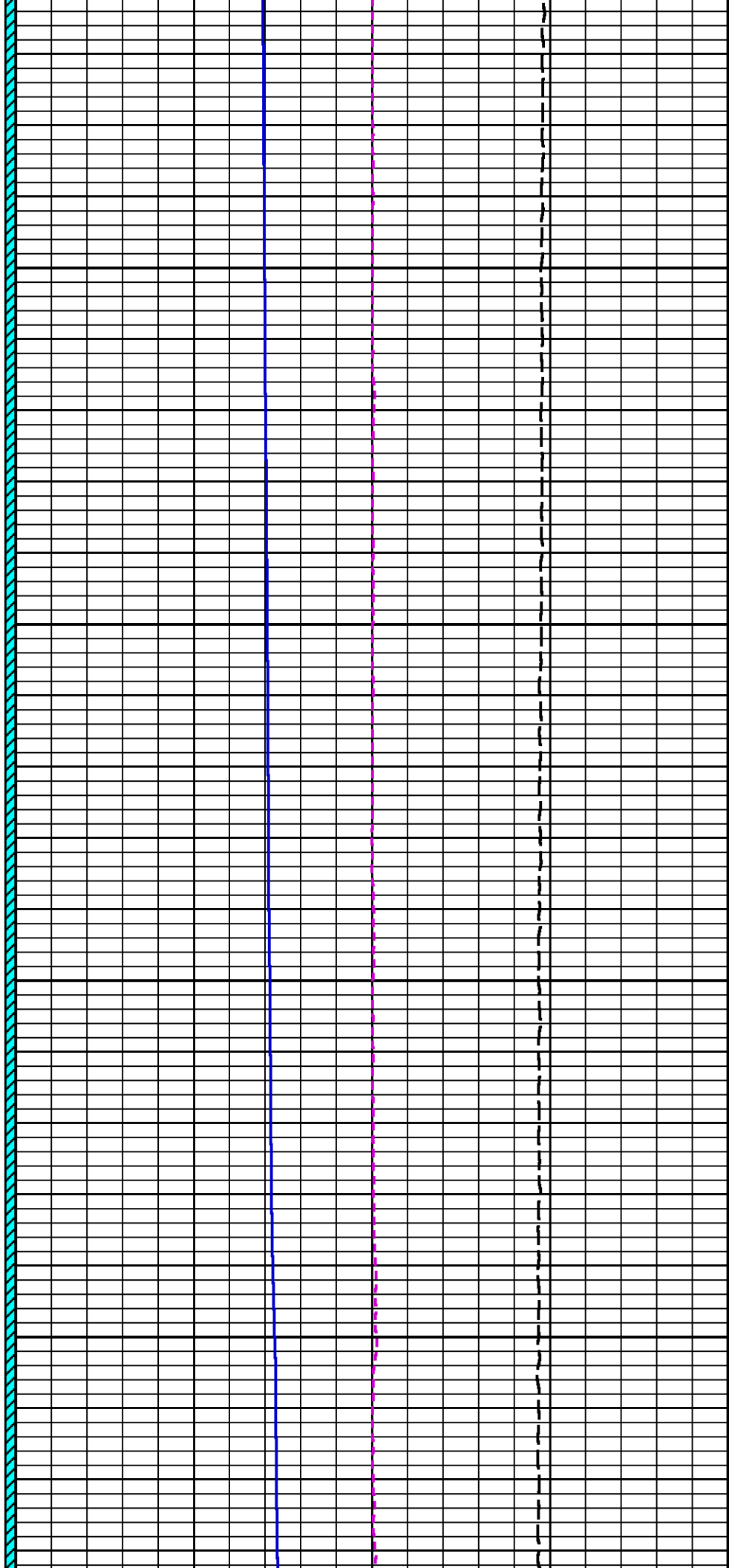


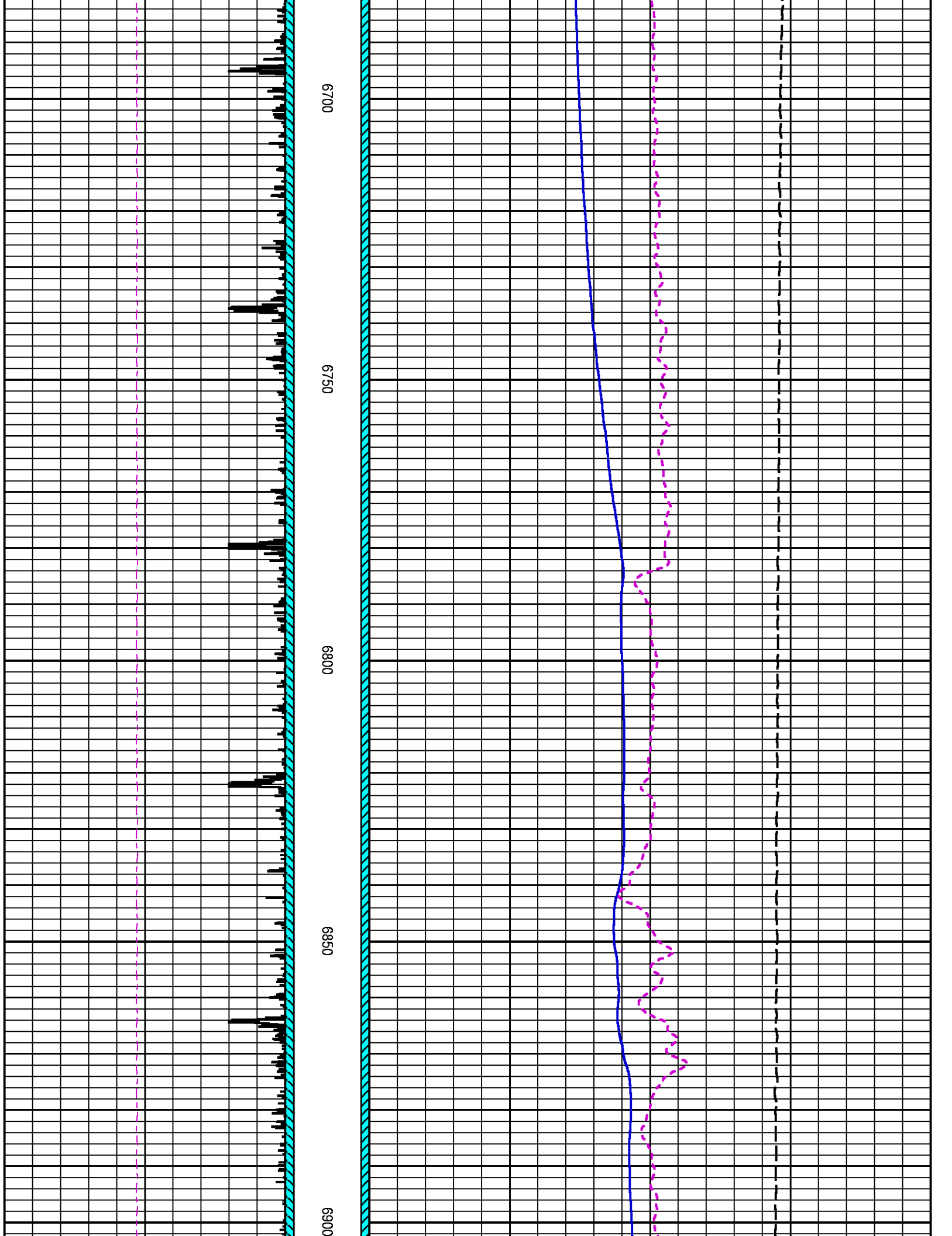
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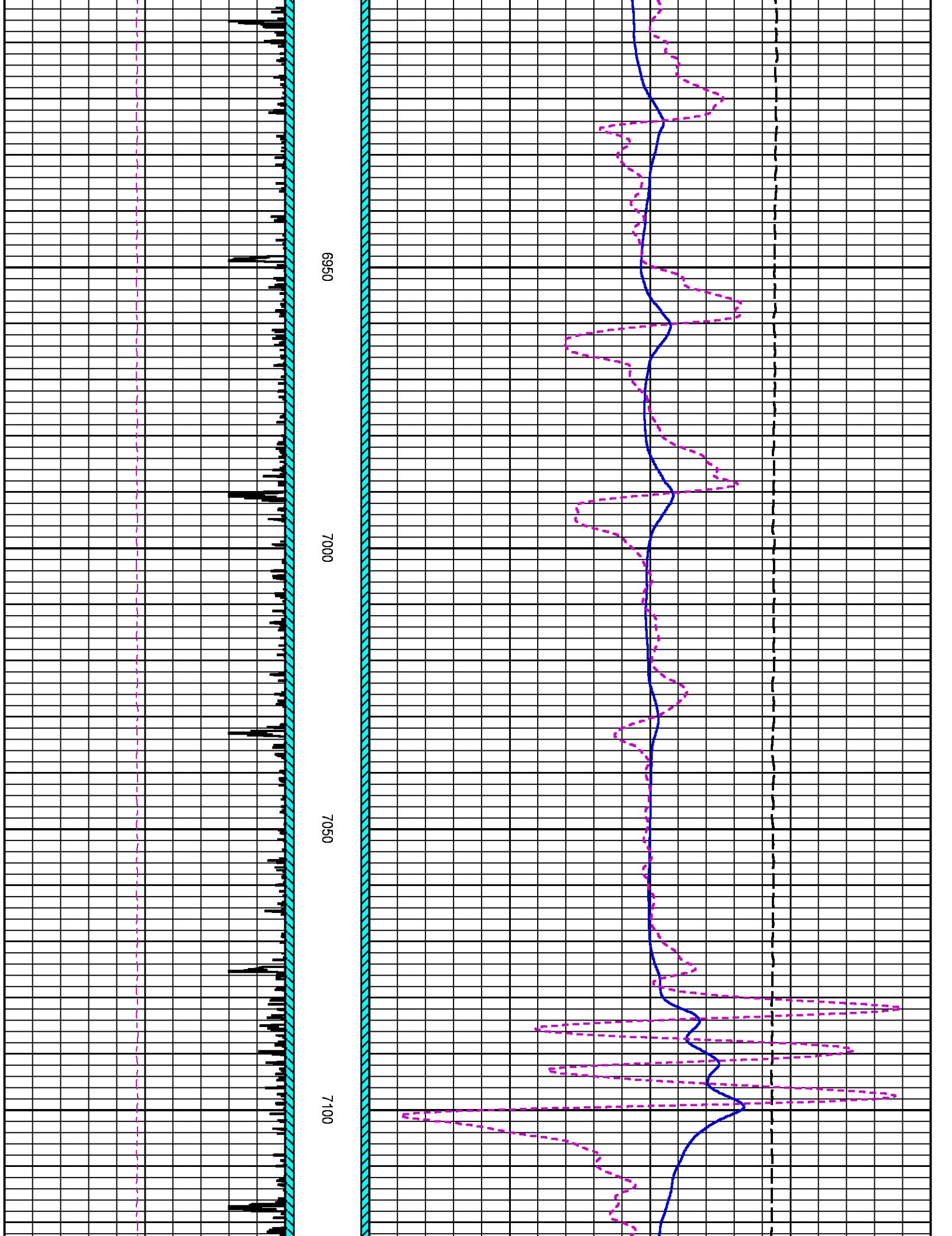
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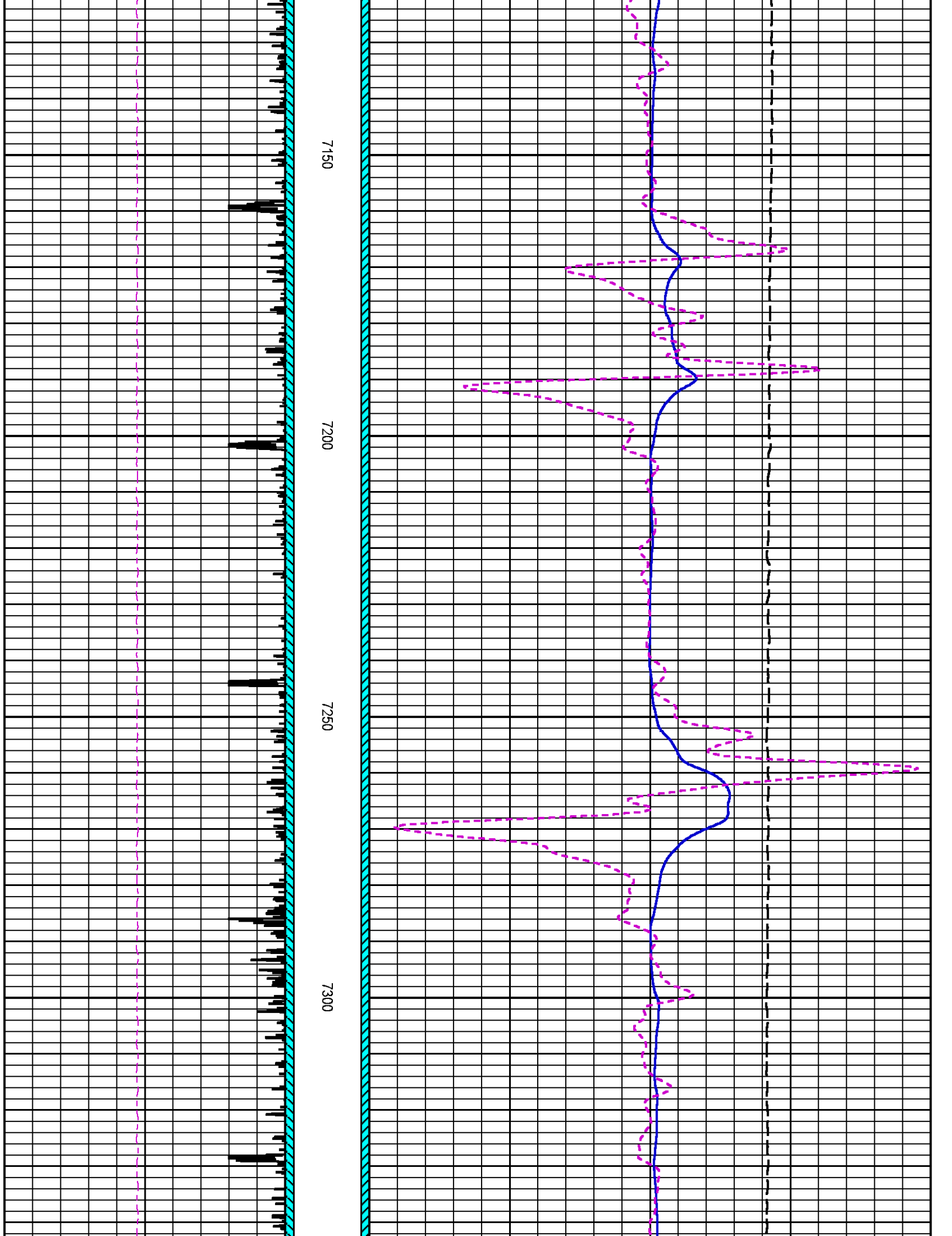


7150

7200

7250

7300



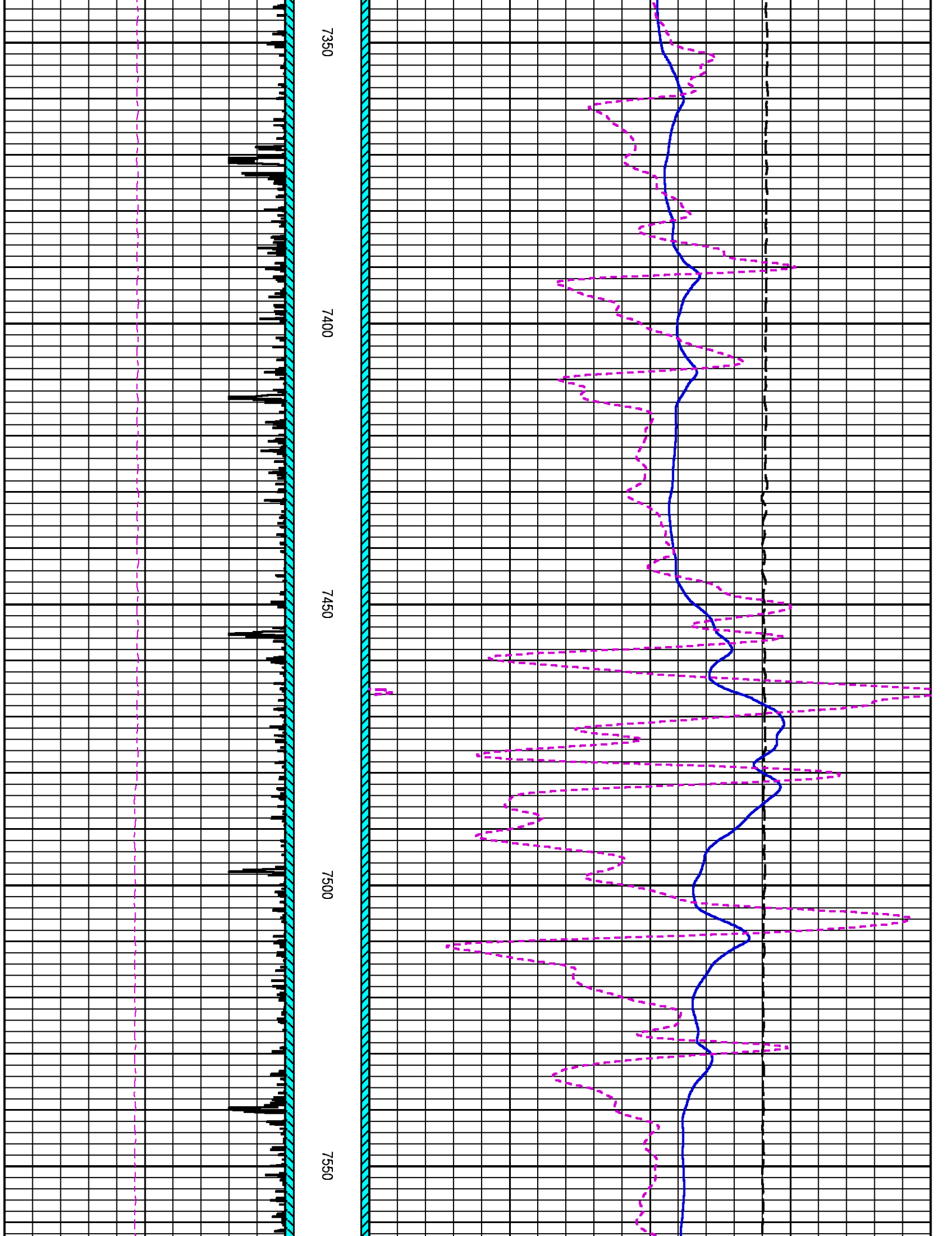
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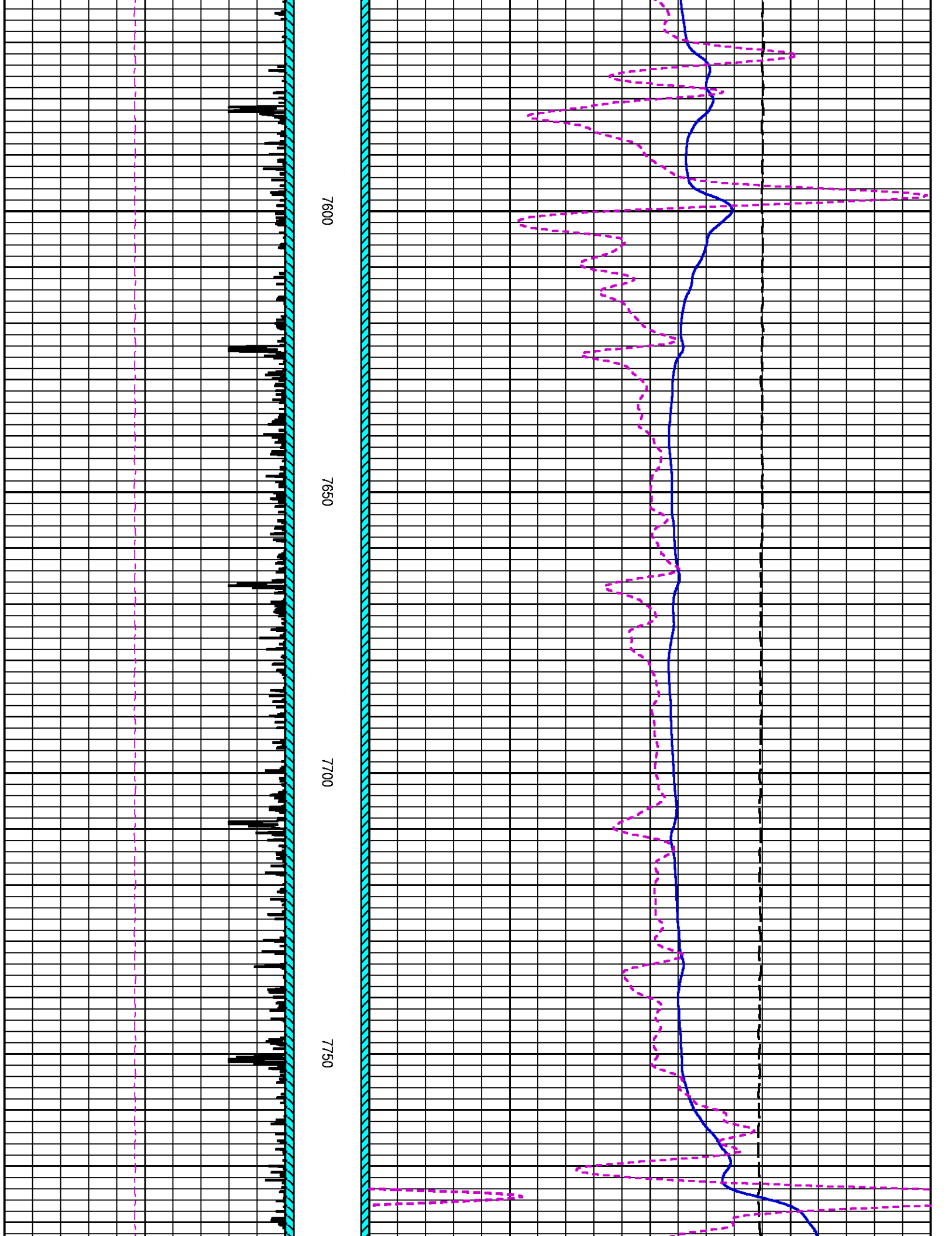
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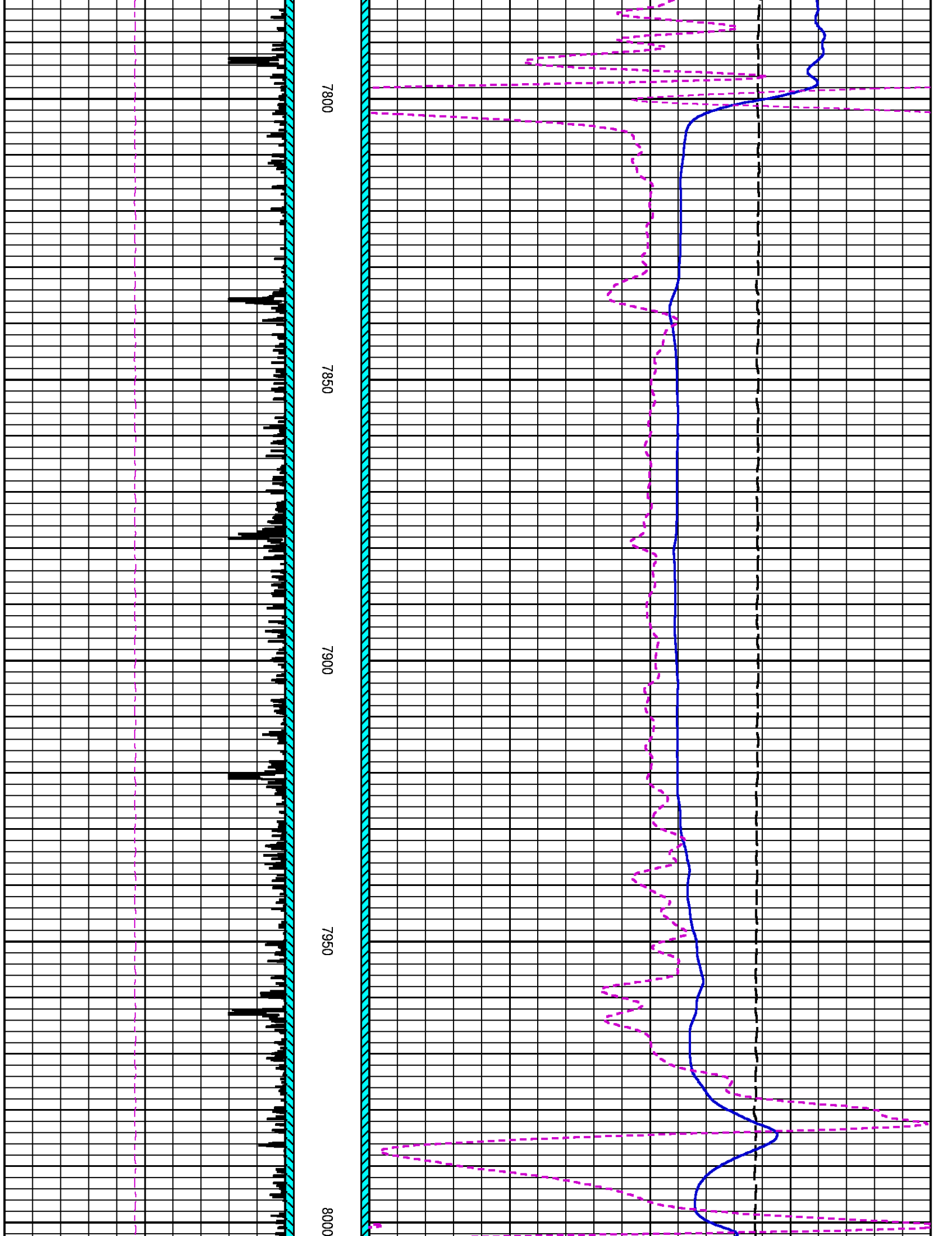
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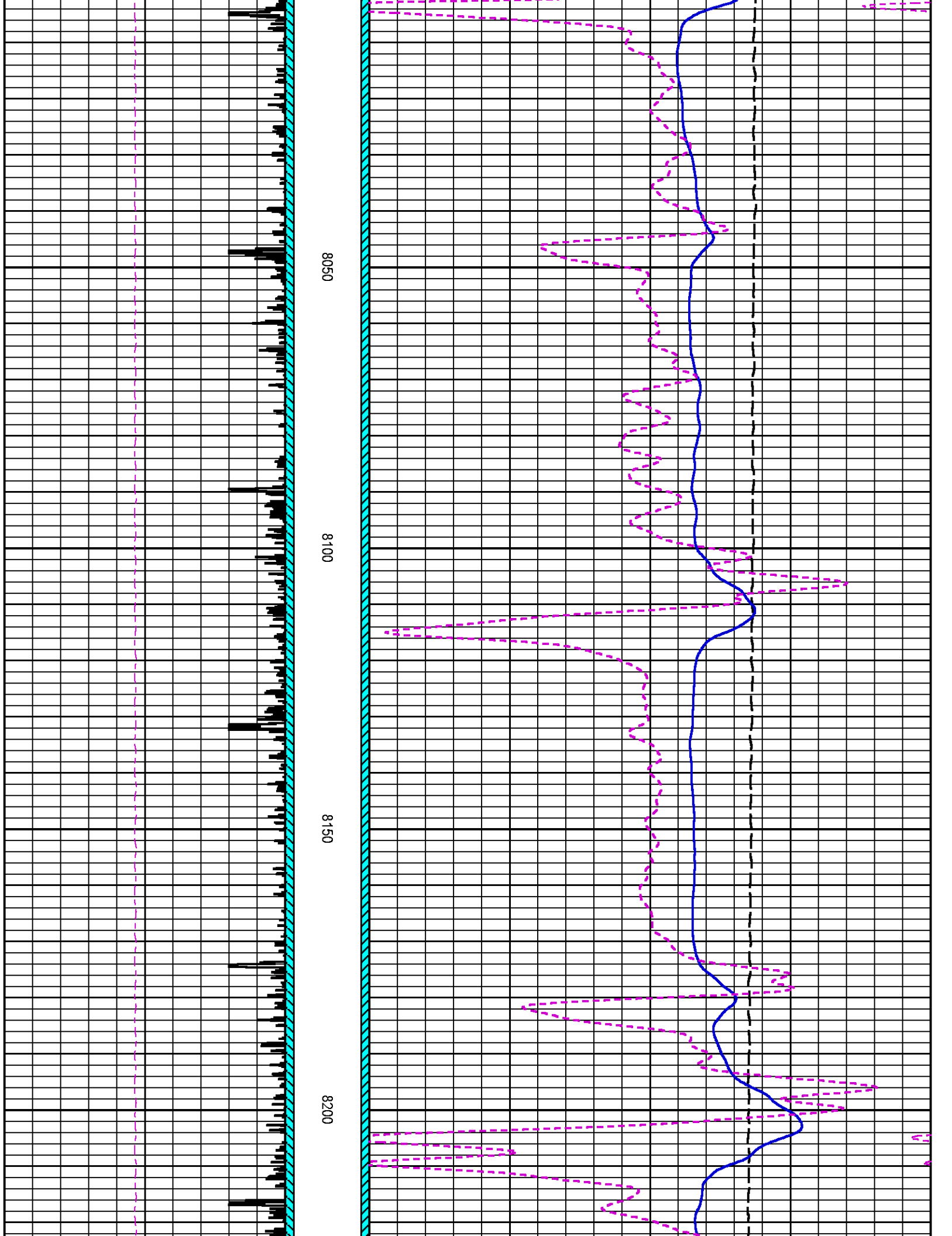
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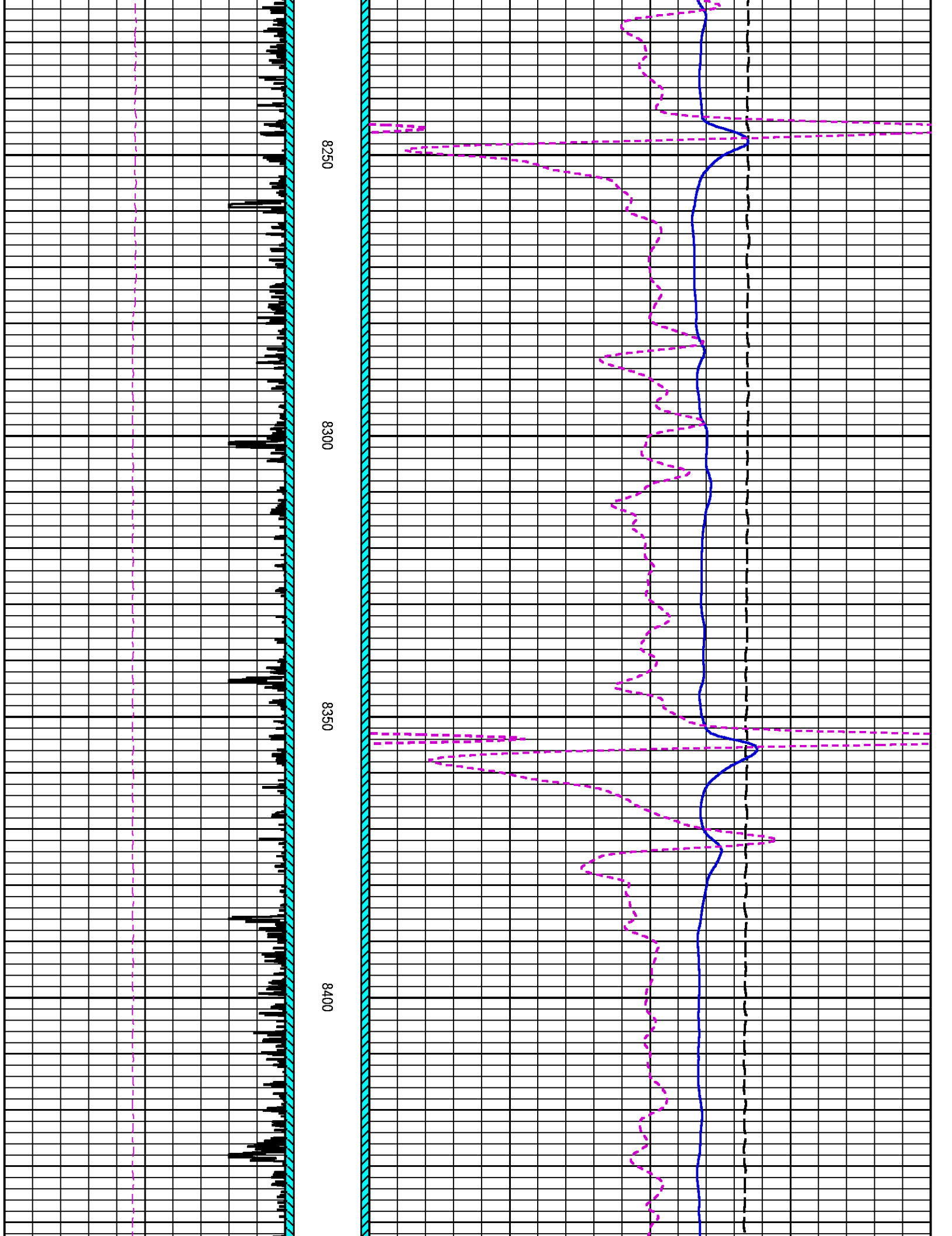
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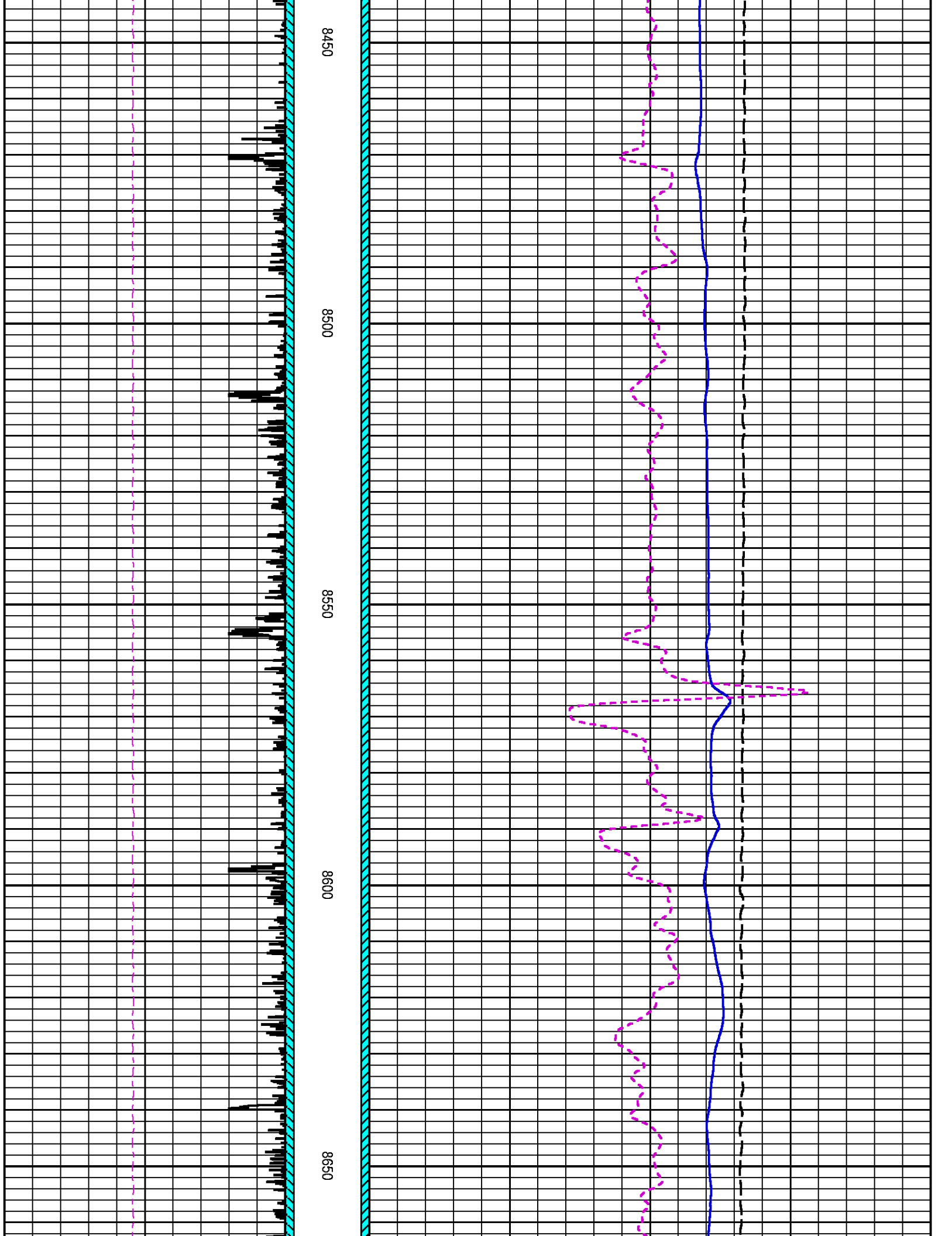
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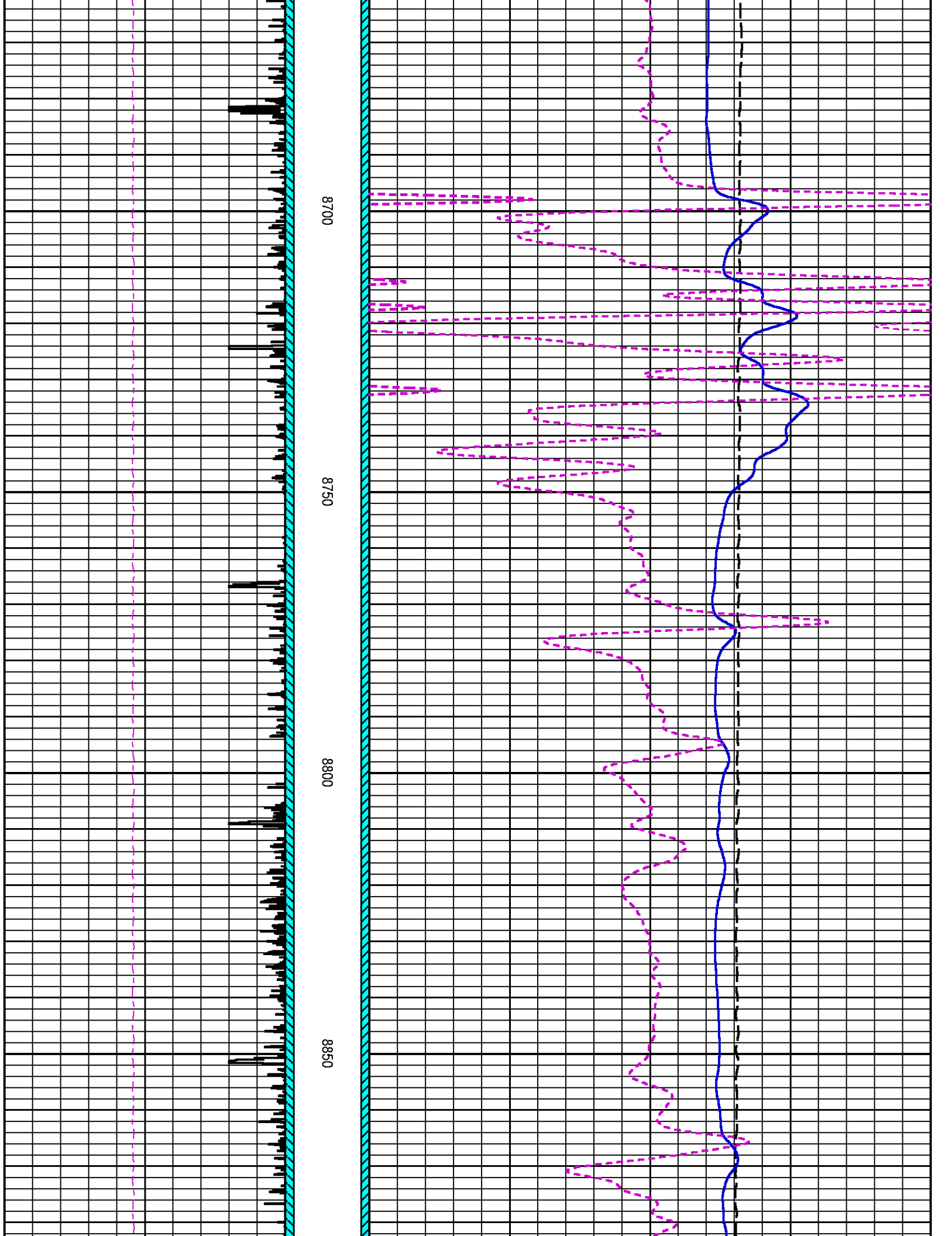
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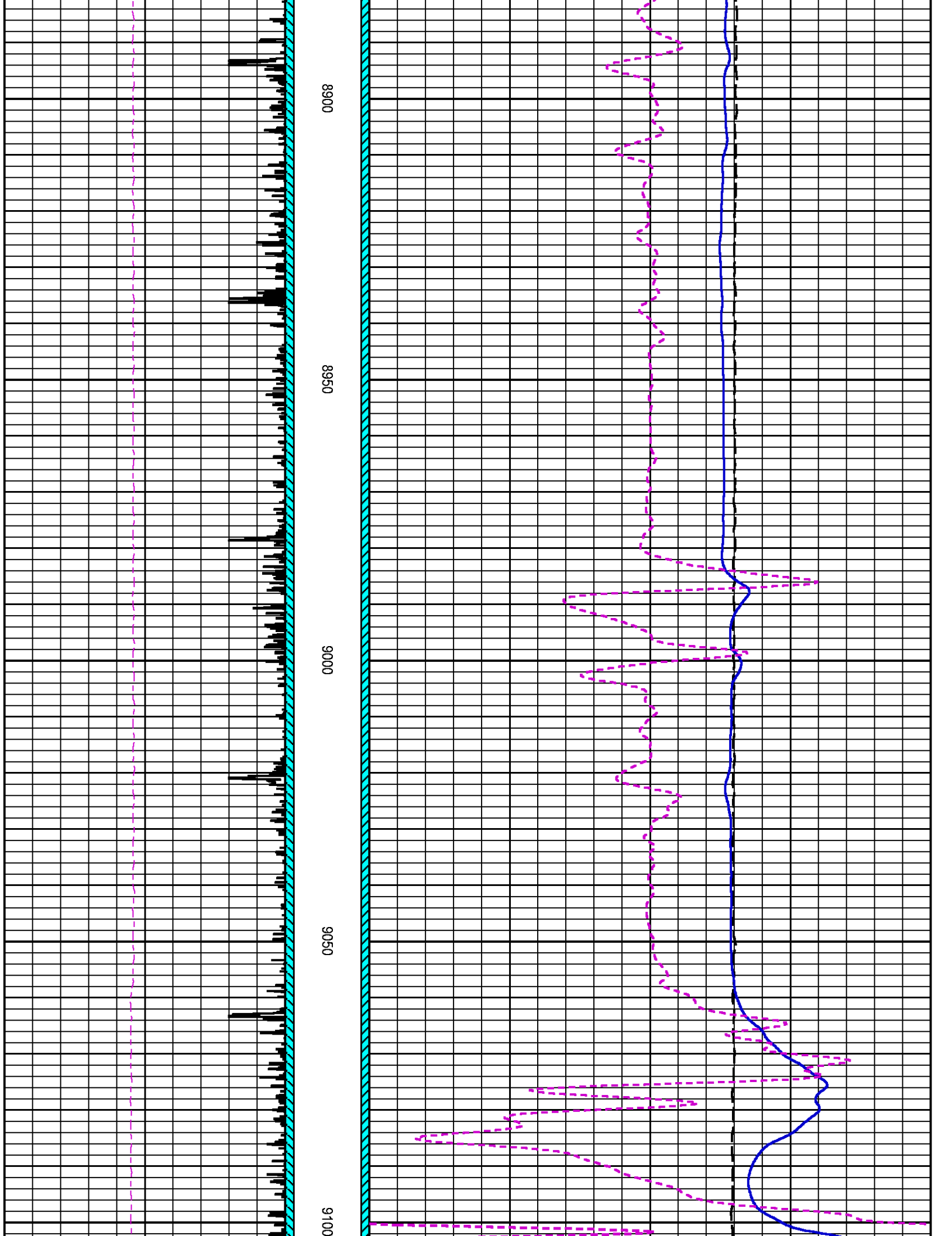
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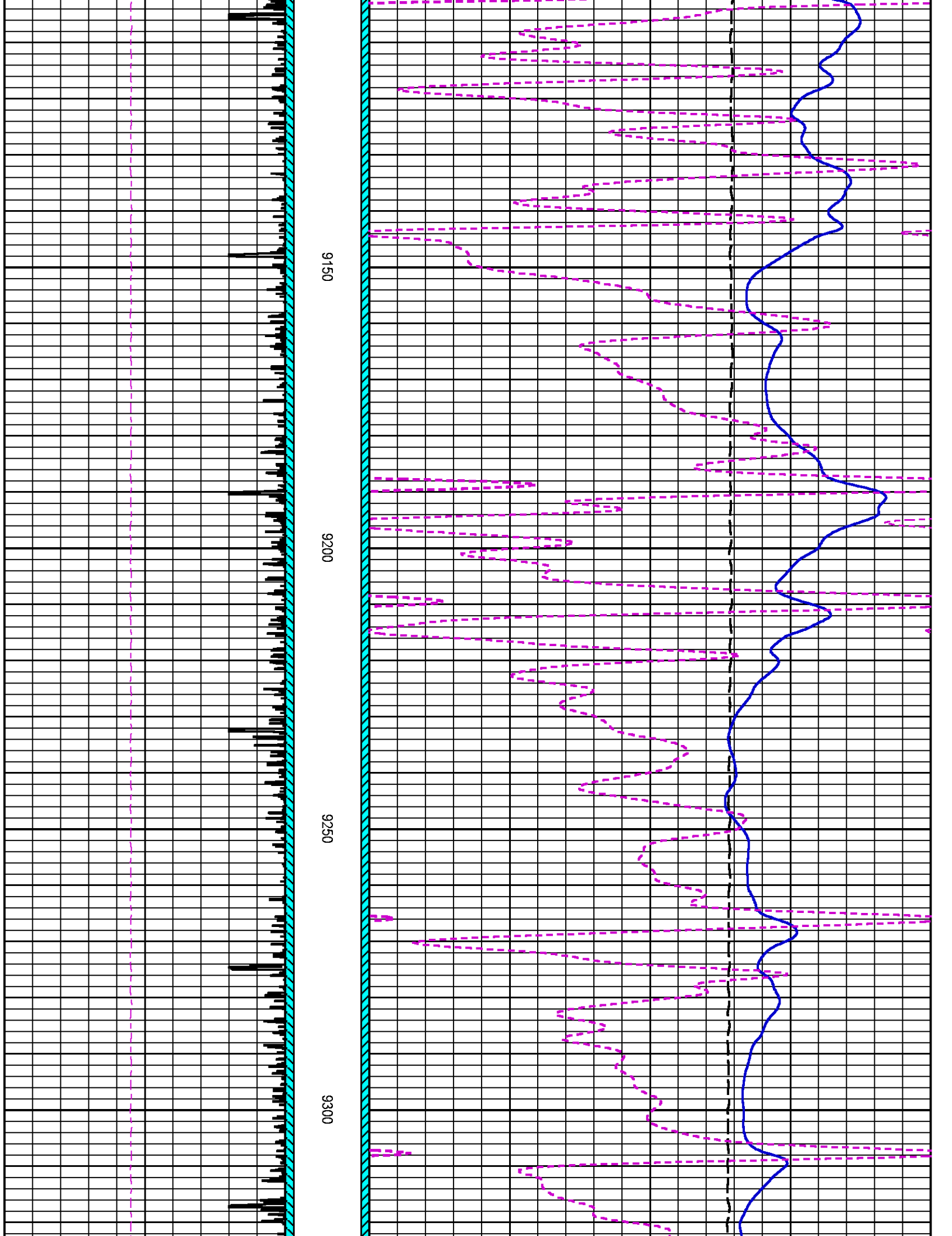
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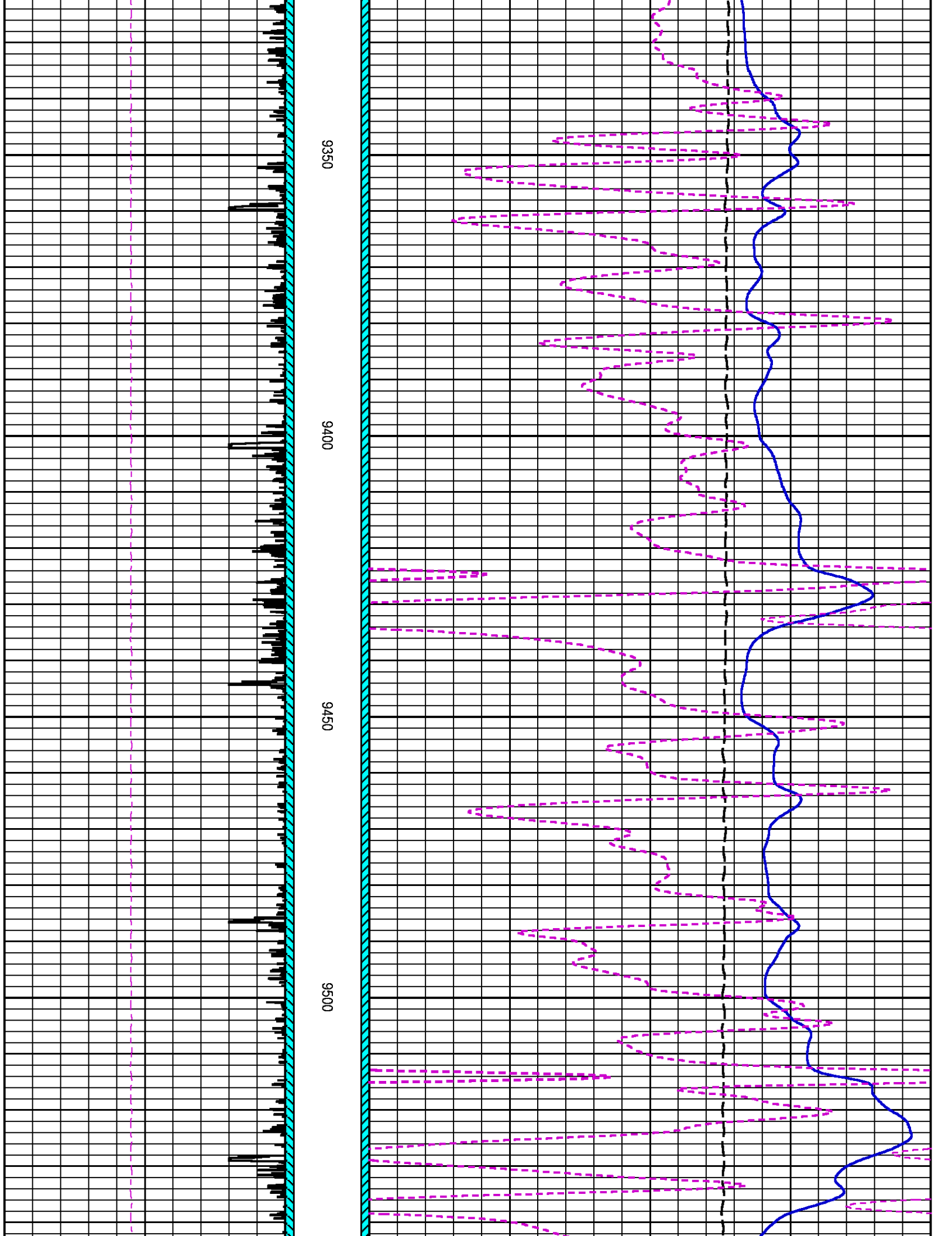
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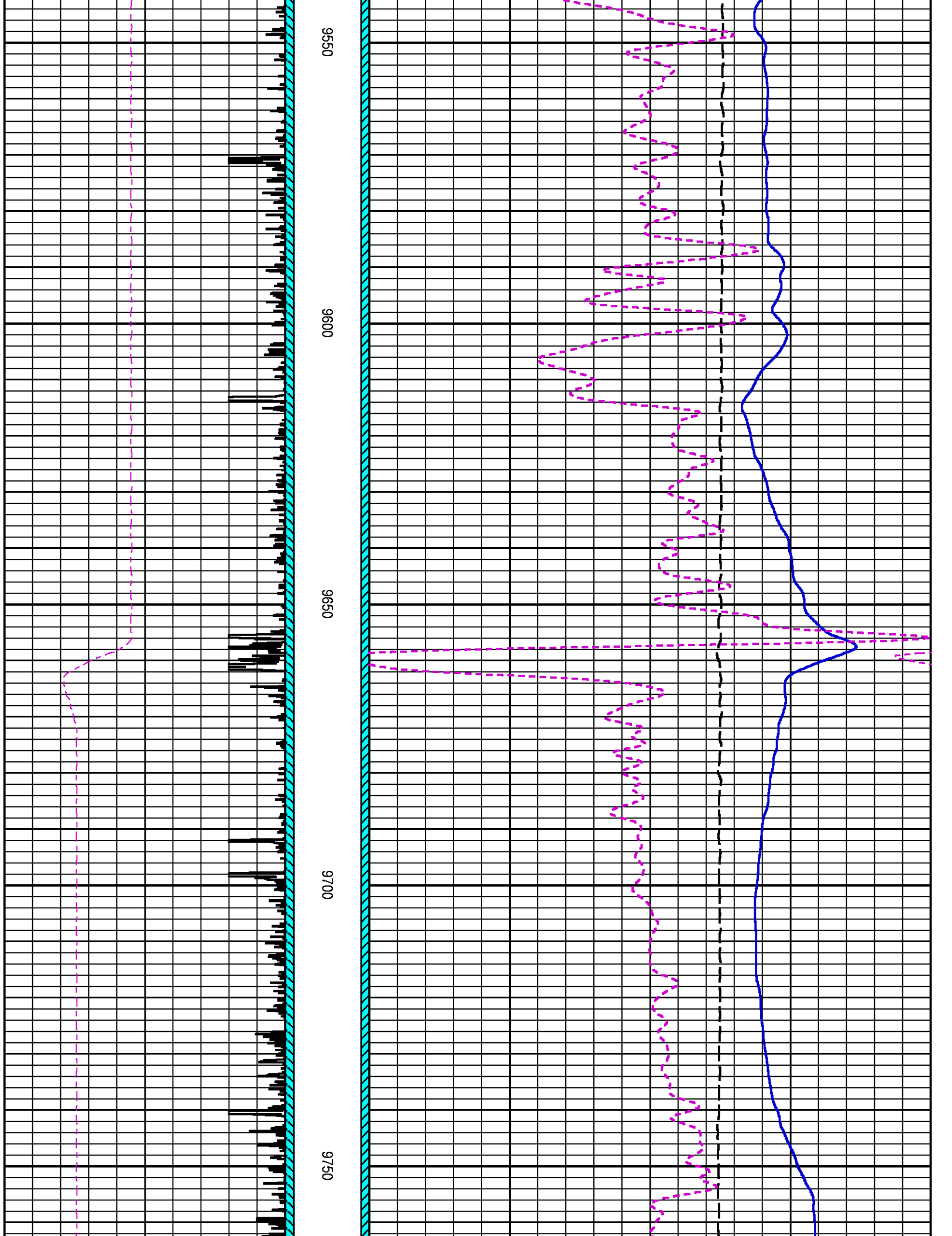


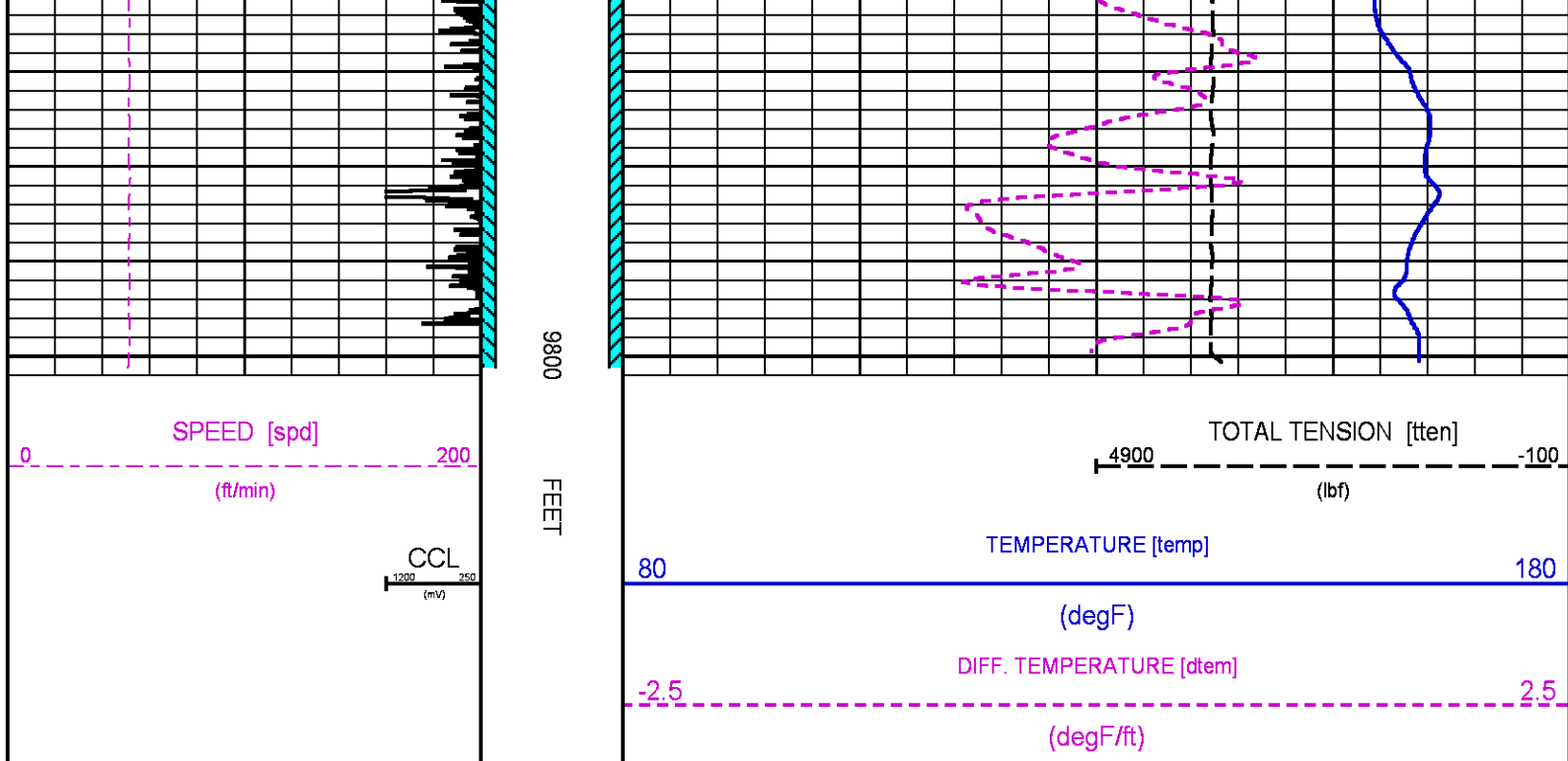












MAIN LOG 1"/100FT SCALE

ECLIPS 7.0i ECLIPS General Release Rel 7.0i Thu Jun 08 20:36:10 CDT 2017
Patches: 3

Plotted: Thu Jul 26 13:07:08 2018

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/md11798R11/p353bTEMP02.prm
LOGGING MODE: DEPTH DIRECTION: DOWN
TOP DEPTH: 29.984 ft BOTTOM DEPTH: 9792.000 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
SPEED	FILTER ()	medium (1)		TOP BOTTOM
TENSION	FILTER ()	medium (1)		" "
TEMP	FILTER ()	medium (1)		" "

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCLQH	N/A	CASING COLLAR LOCATOR
F1:DTEM	N/A	DIFFERENTIAL TEMPERATURE
F1:SPD	N/A	SPEED
F1:TEMP	N/A	TEMPERATURE
F1:TEN	N/A	TOTAL TENSION

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCLQH	-3.38	SPD	0.00	TEN	0.00		

DIEM

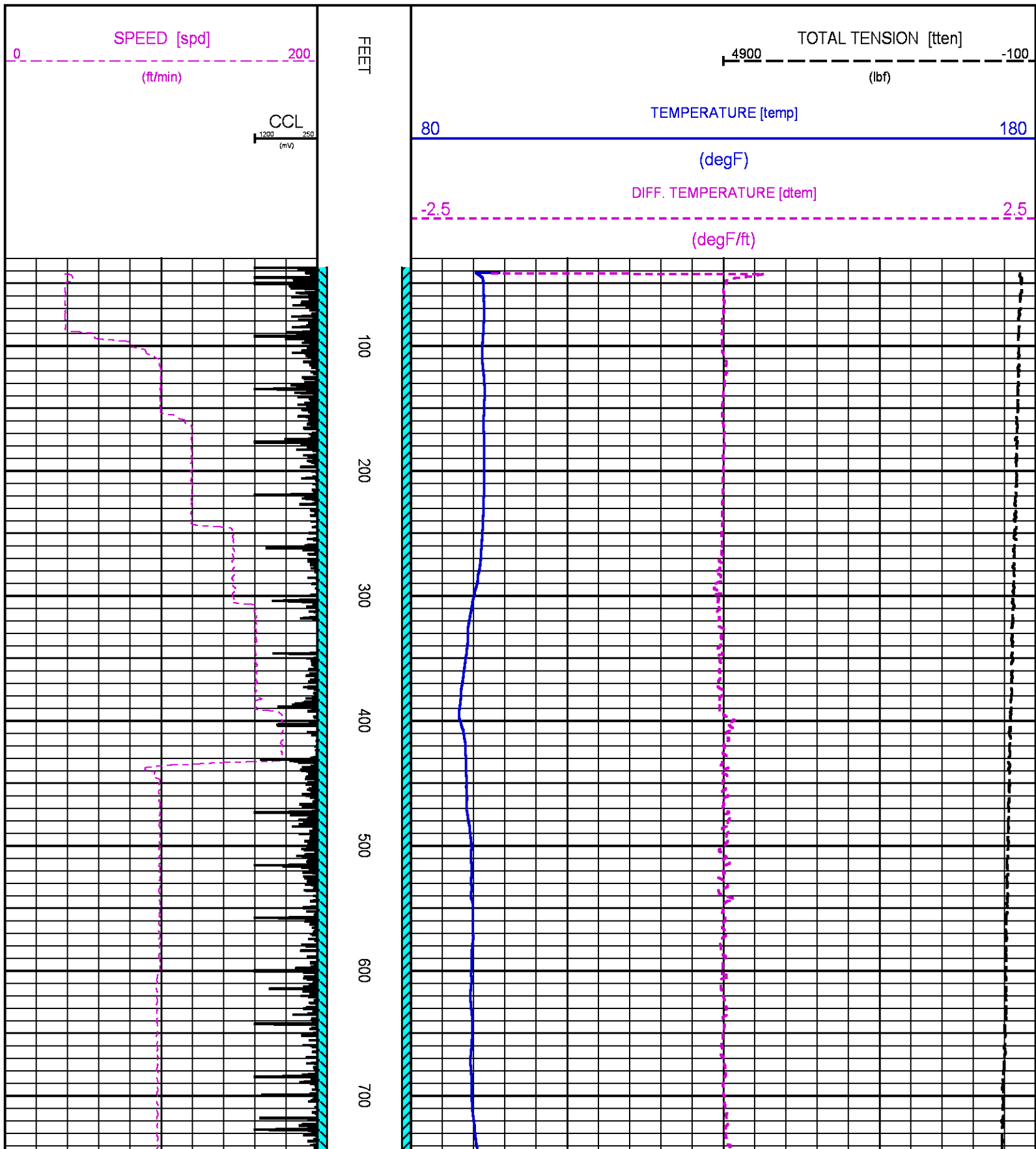
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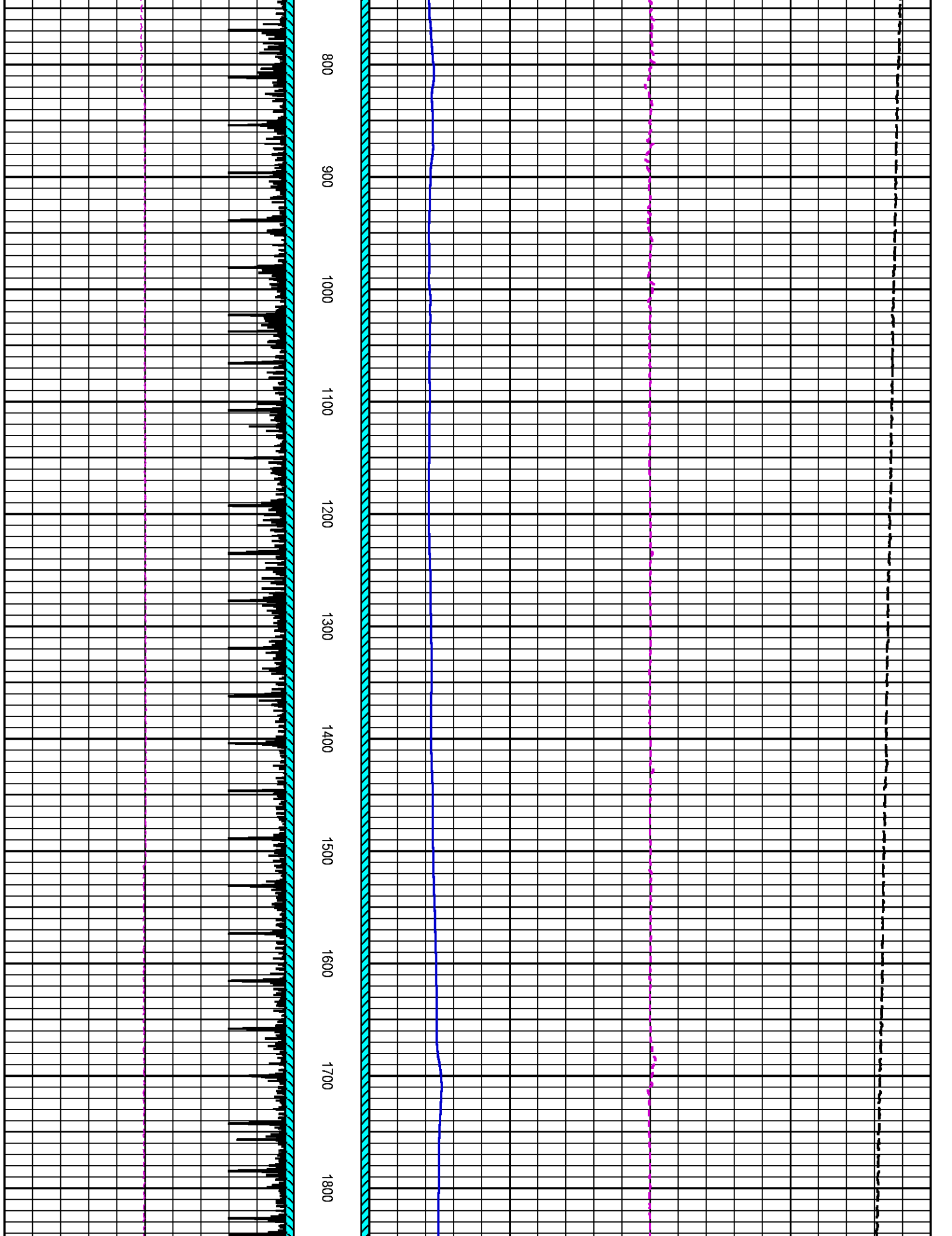
TEMP

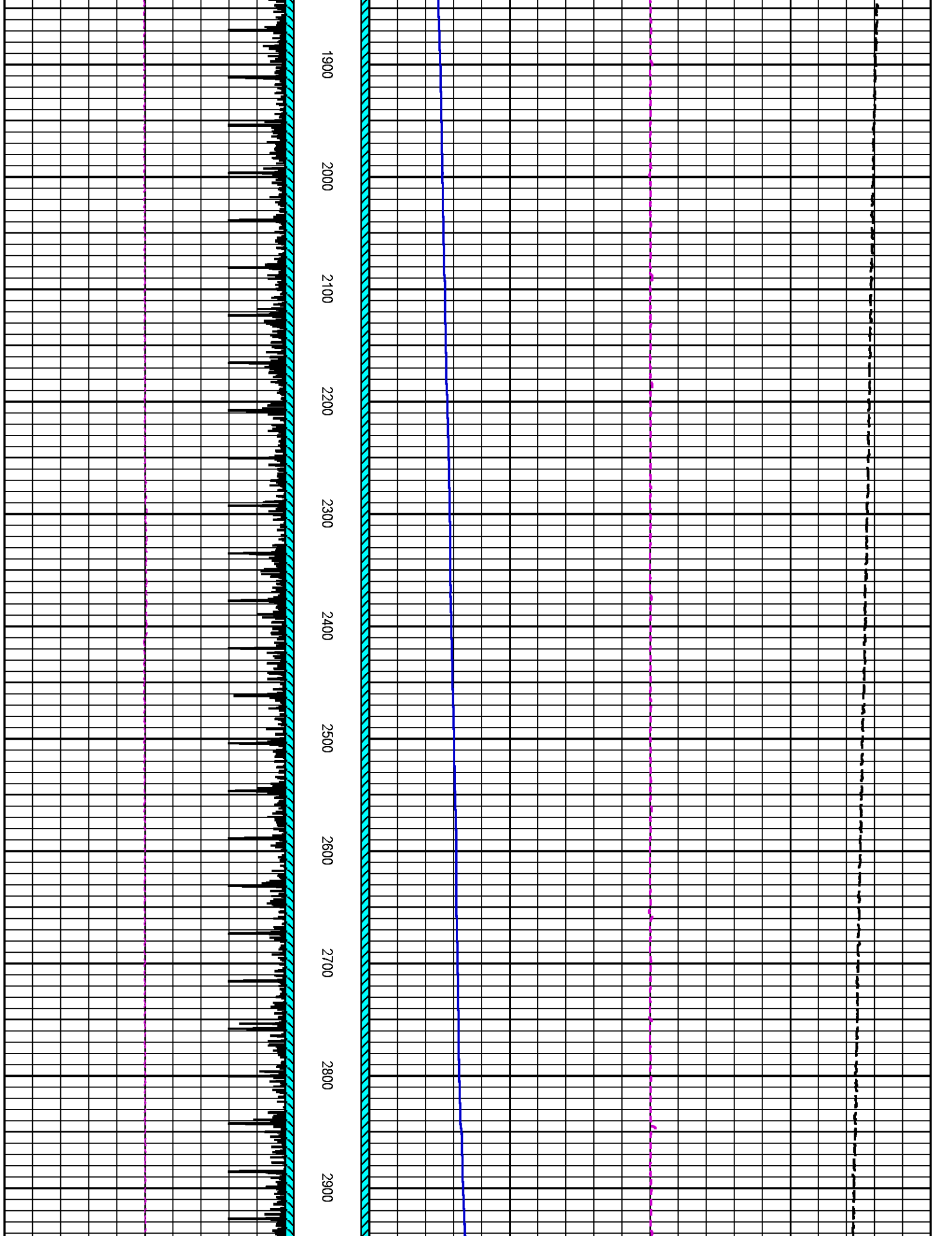
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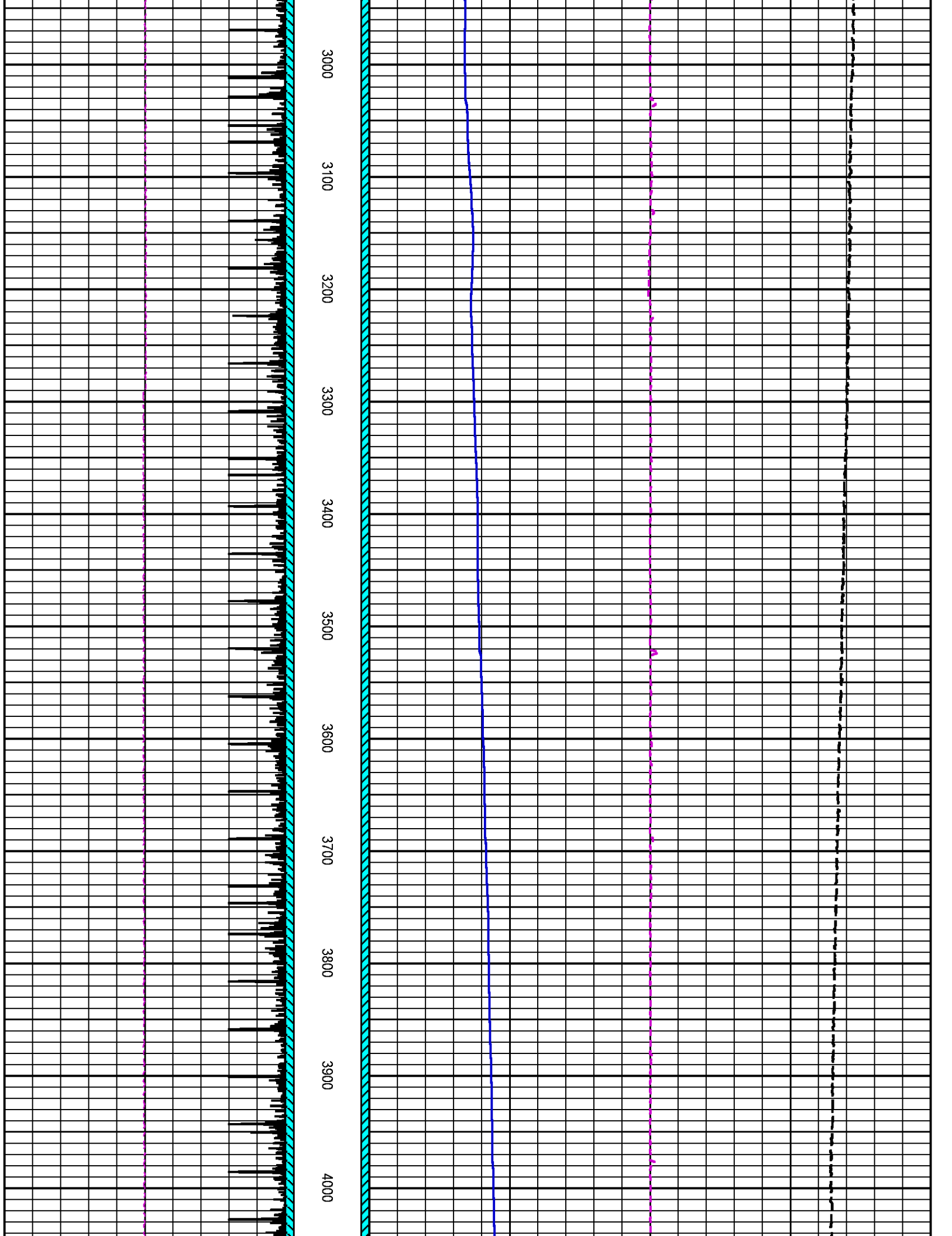
Presentation : SysA:/dat1a/md11798R11/gr-temp1in.fvpdf [1"/100" Scale]
Plot Interval : 37.25 - 9801.25 Feet

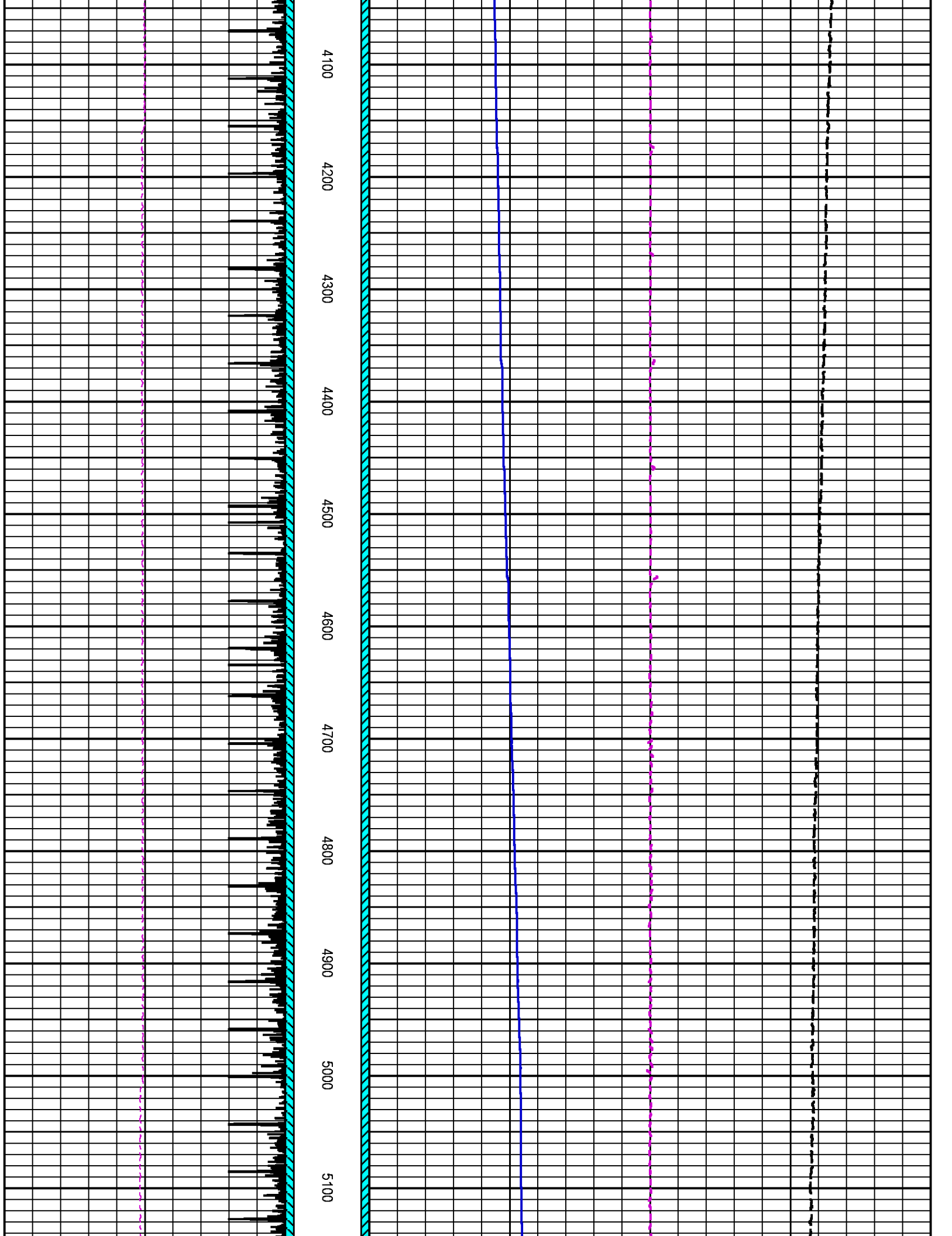
Data File 1 : F1 : SysA:/dat1a/md11798R11/TEMP.xtf
Created On : N/A
Company : HOLLY FRONTIER - NAVAJO
Well : NAVAJO REFINING WDW #4
Field : ARTESIA
File Interval : 37.25 - 9802.5 Feet
OCT : p353bTEM

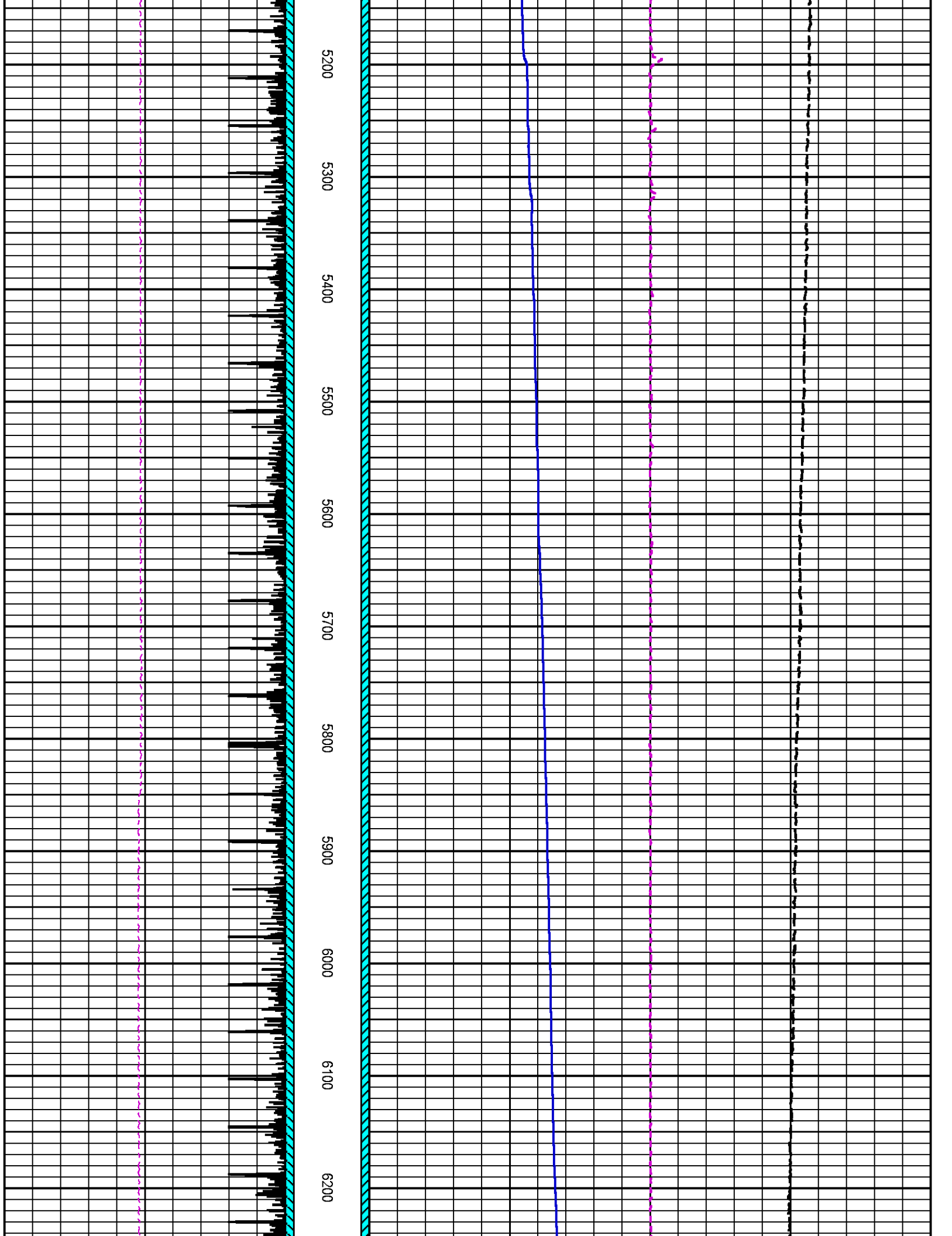


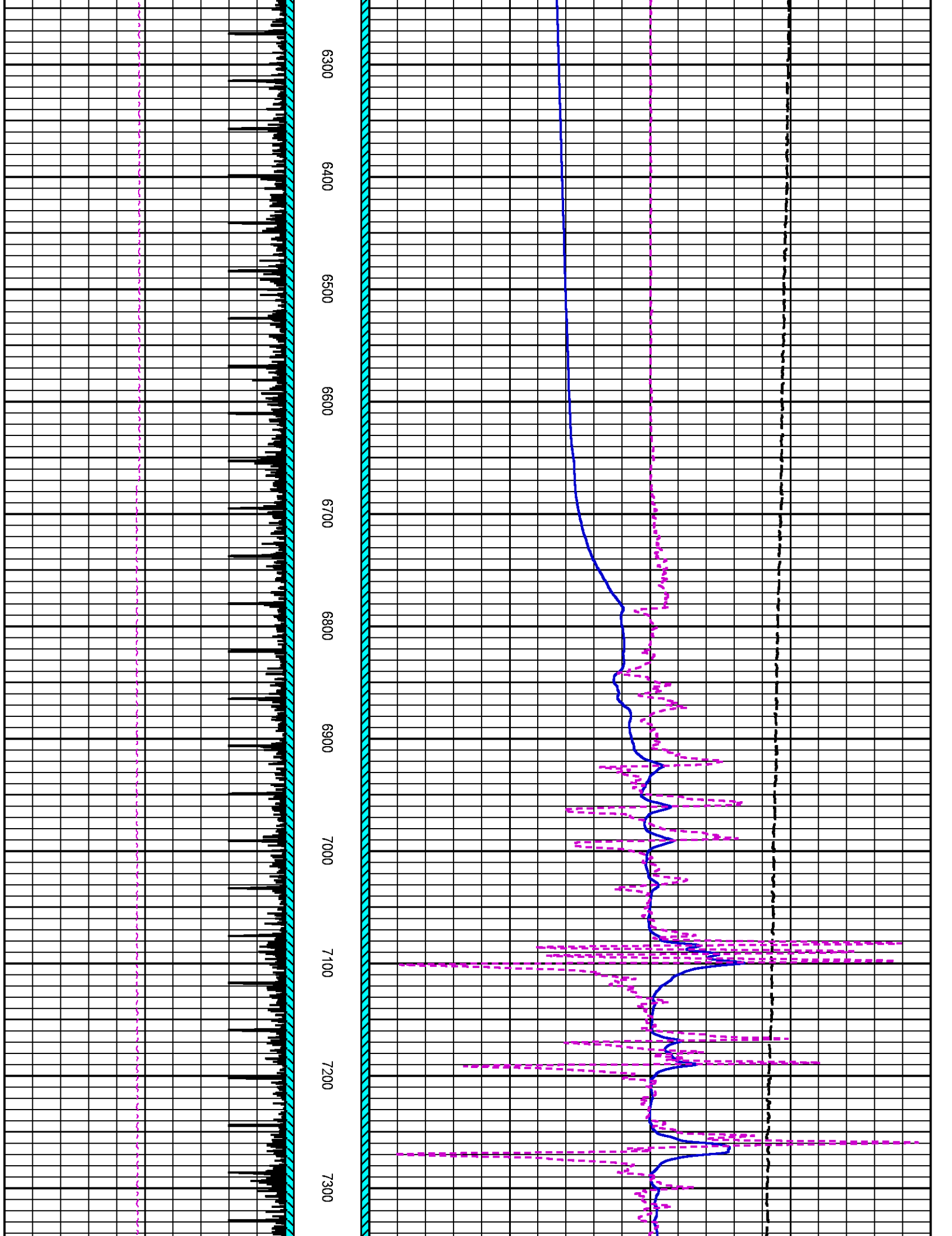


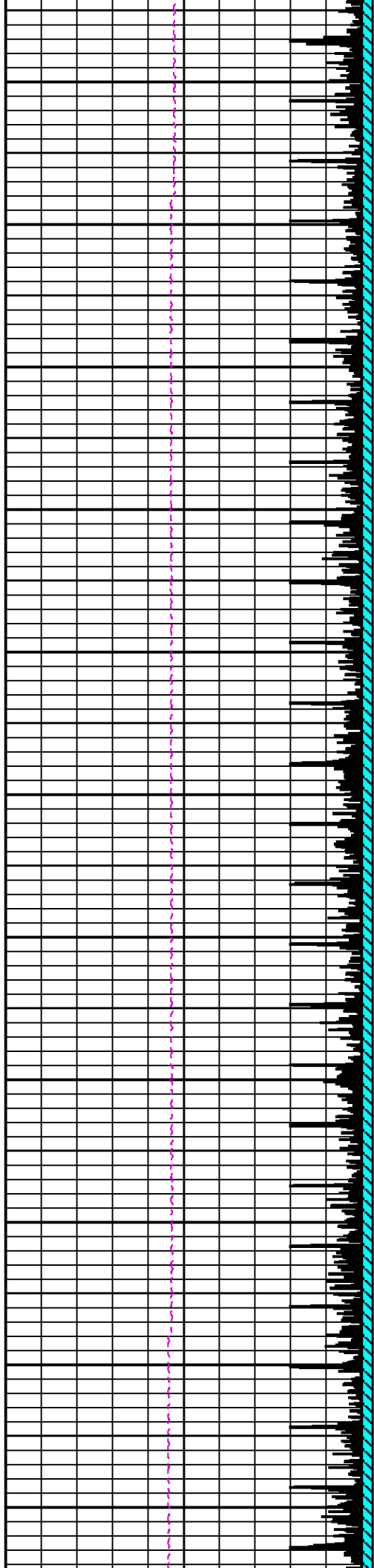
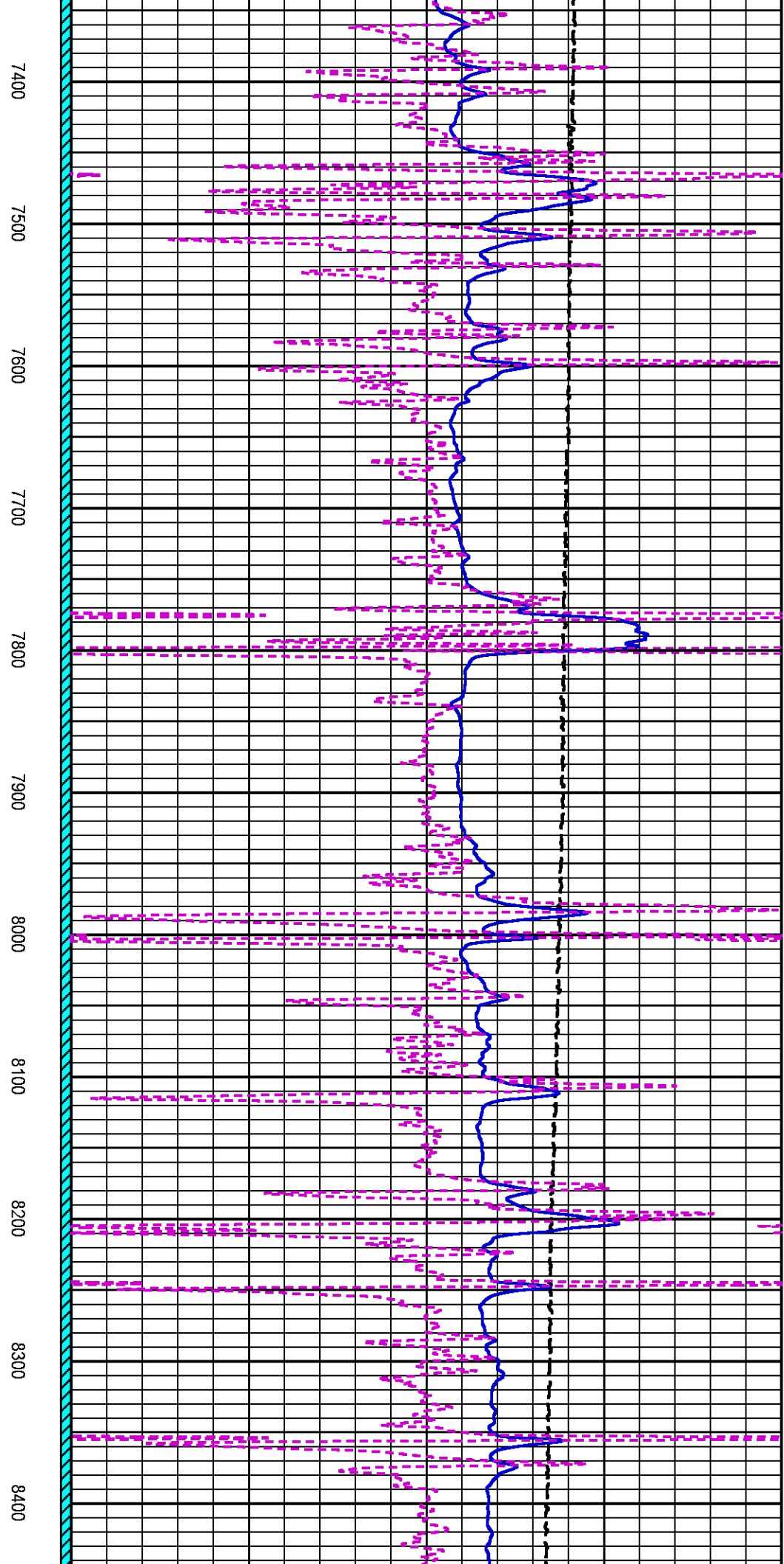


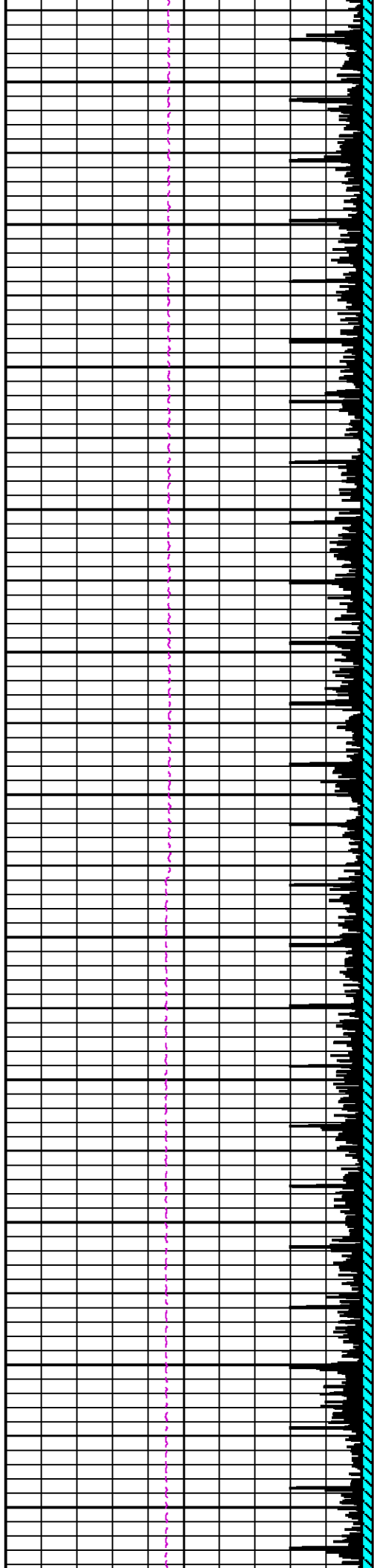
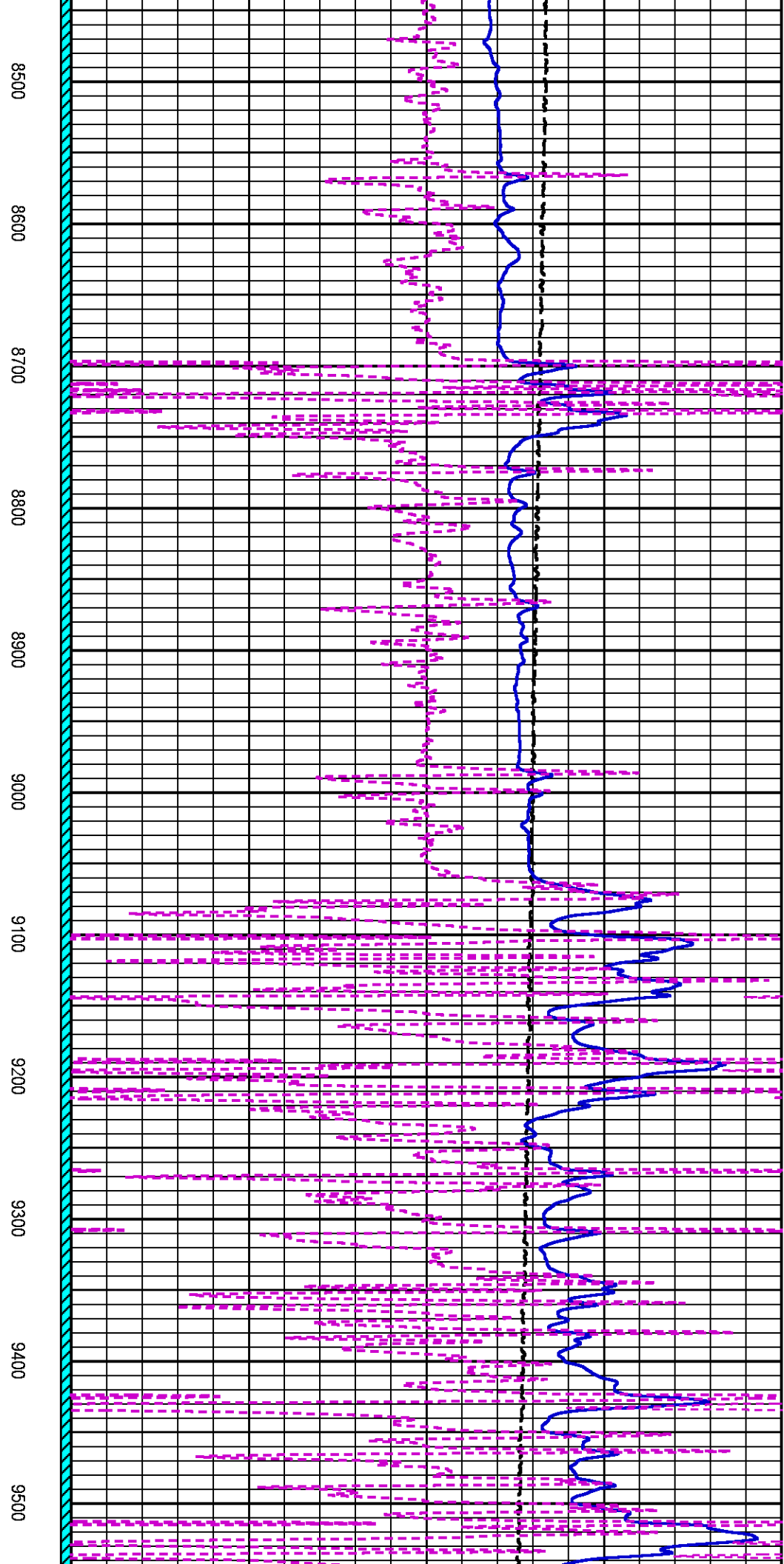


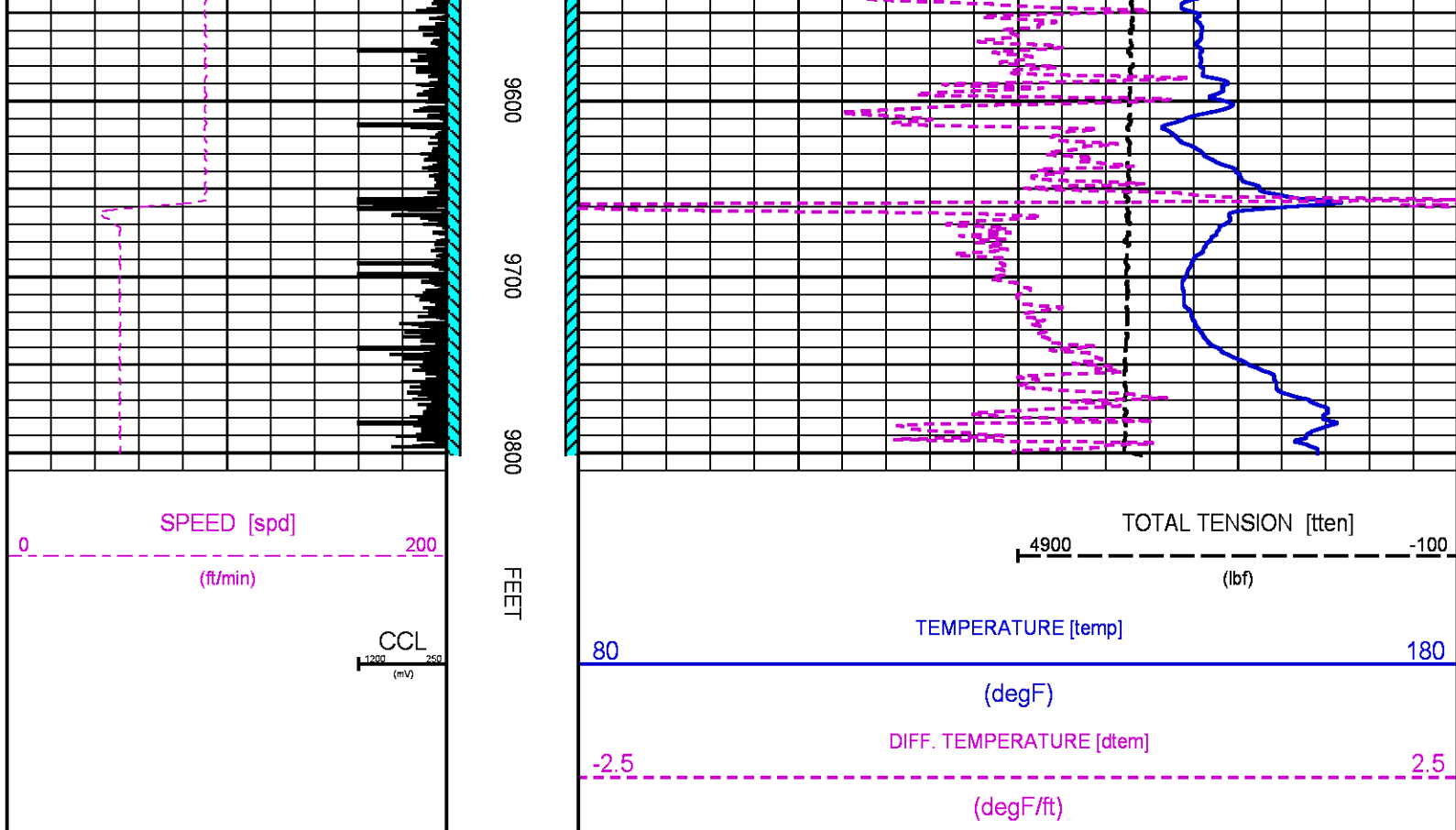












INSTRUMENT CONFIGURATION

Source File: /dat1a/md11798R11/p353bTEMP~TEMP-tdg

A3 CABLEHEAD

PCM POWER SUPPLY

Diameter : 1.70"
Length : 3.86'
Weight : 18 lbs
Series : 8250EA
Mnemonic : PCM

TELEMETRY / CCL

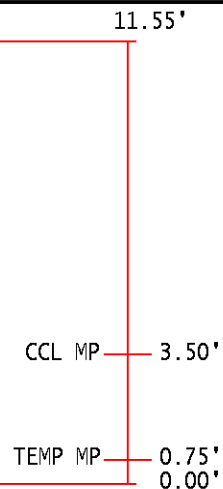
Diameter : 1.70"
Length : 4.46'
Weight : 20 lbs
Series : 8248ED
Mnemonic : PCM
Measure Point: 1.00': CCL MP

TEMPERATURE TOOL

Diameter : 1.70"
Length : 2.38'

BULL PLUG 1 11/16

TOTAL LENGTH: 11.55'
TOTAL WEIGHT: 53 lbs
MAX DIAMETER: 0'1.70"





FIELD	<u>ARTESIA</u>		API NO:	<u>30-015-44677</u>
COUNTY	<u>EDDY</u>	STATE	<u>NEW MEXICO</u>	
LOCATION: 1217' FSL & 2443' FWL SECTION 23, T17S, R27E N.M.P.M. SURVEY		ELEVATIONS:		
		KB 3585.8 FT DF 3584.8 FT GL 3565.8 FT		
		DATE		26-JUL-2018