



TEMPERATURE CCL LOG

FILE NO: MD11798 COMPANY WSP USA, INC.

API NO: 30-015-44677 WELL ARTESIA
FIELD EDDY STATE NEW MEXICO

Ver. 4.10 LOCATION: 1217' FSL & 2443' FWL OTHER SERVICES

SECTION 23, T17S, R27E
N.M.P.M. SURVEY

PERMANENT DATUM GL ELEVATION 3565.8 FT
LOG MEASURED FROM KB 20 FT ABOVE P.D.
DRILL. MEAS. FROM KB

ELEVATIONS:
KB 3565.8 FT
DF 3584.8 FT
GL 3565.8 FT

DATE	27-JUL-2018	
RUN	12	1
SERVICE ORDER	140643	
DEPTH DRILLER	10360 FT	
DEPTH LOGGER	5430 FT	
BOTTOM LOGGED INTERVAL	5430 FT	
TOP LOGGED INTERVAL	0 FT	
TIME STARTED	16:00	
TIME FINISHED	19:00	
OPERATOR RIG TIME	3 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	TEMP	
REFERENCE LOG DATE	7/26/18	
EQUIP. NO.	HL6845	MIDLAND, TX
RECORDED BY	k. fantroy	
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 12 TRIP 1: TIED INTO TEMP LOG
DATED 7/26/18

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

INSTRUMENT CONFIGURATION

A3 CABLEHEAD**SINKER BAR 1.69" - STEEL**

Diameter : 1.69"
Length : 5.00'
Weight : 50 lbs
Series : 3907NA
Mnemonic : SNKB

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: 16.55'
TOTAL WEIGHT: 103 lbs
MAX DIAMETER: 0'1.70"

CCL MP 3.50'

TEMP MP 0.75'
0.00'

MAIN LOG 5"/100FT SCALE

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

Patches: 3

Plotted: Fri Jul 27 17:25:29 2018

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/md11798R12/p353bTEMP01.prm
LOGGING MODE: DEPTH DIRECTION: DOWN
TOP DEPTH: 63.875 ft BOTTOM DEPTH: 5488.750 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

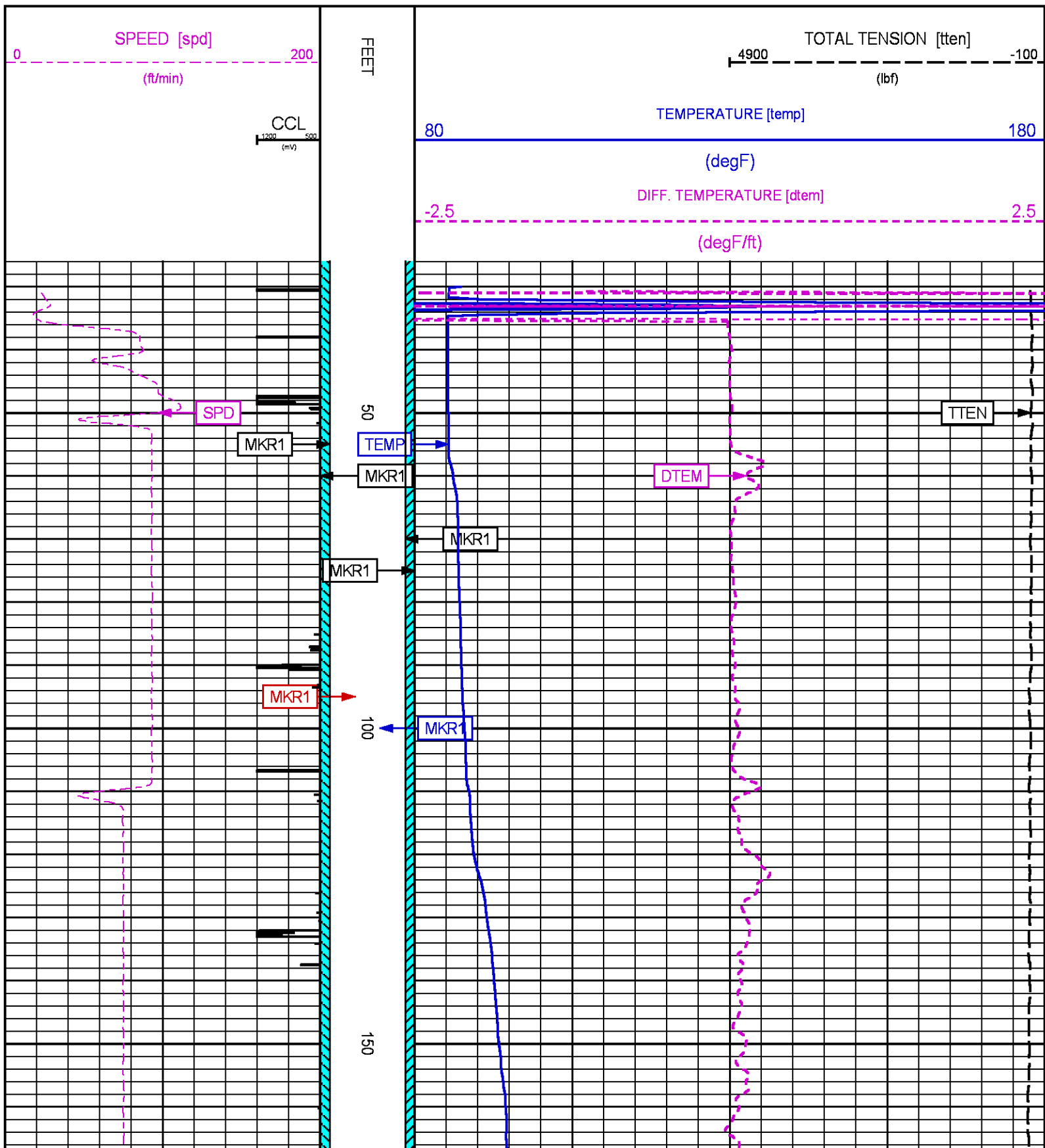
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
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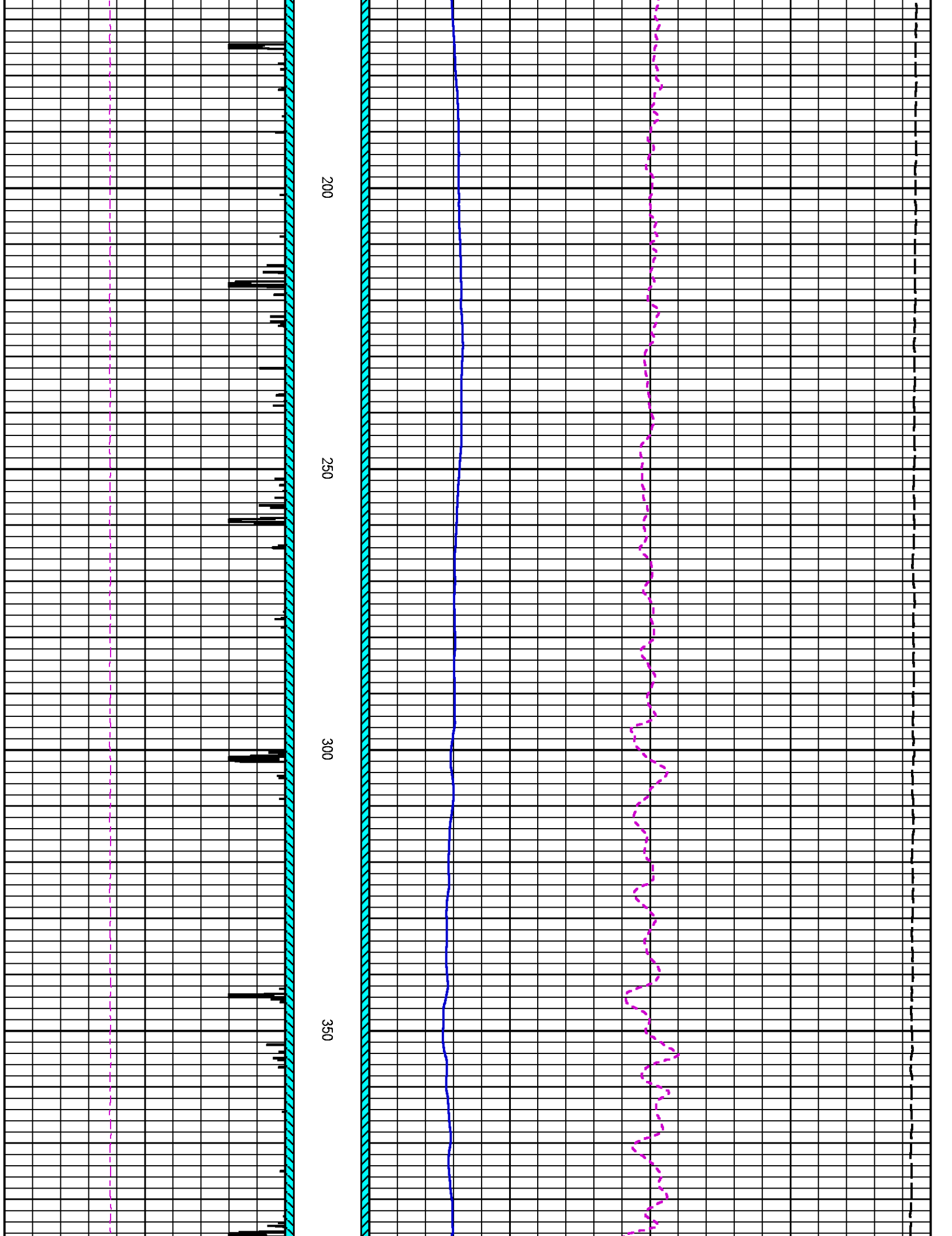
CCLQH 3.38 SPD 0.00 TTEM 0.00

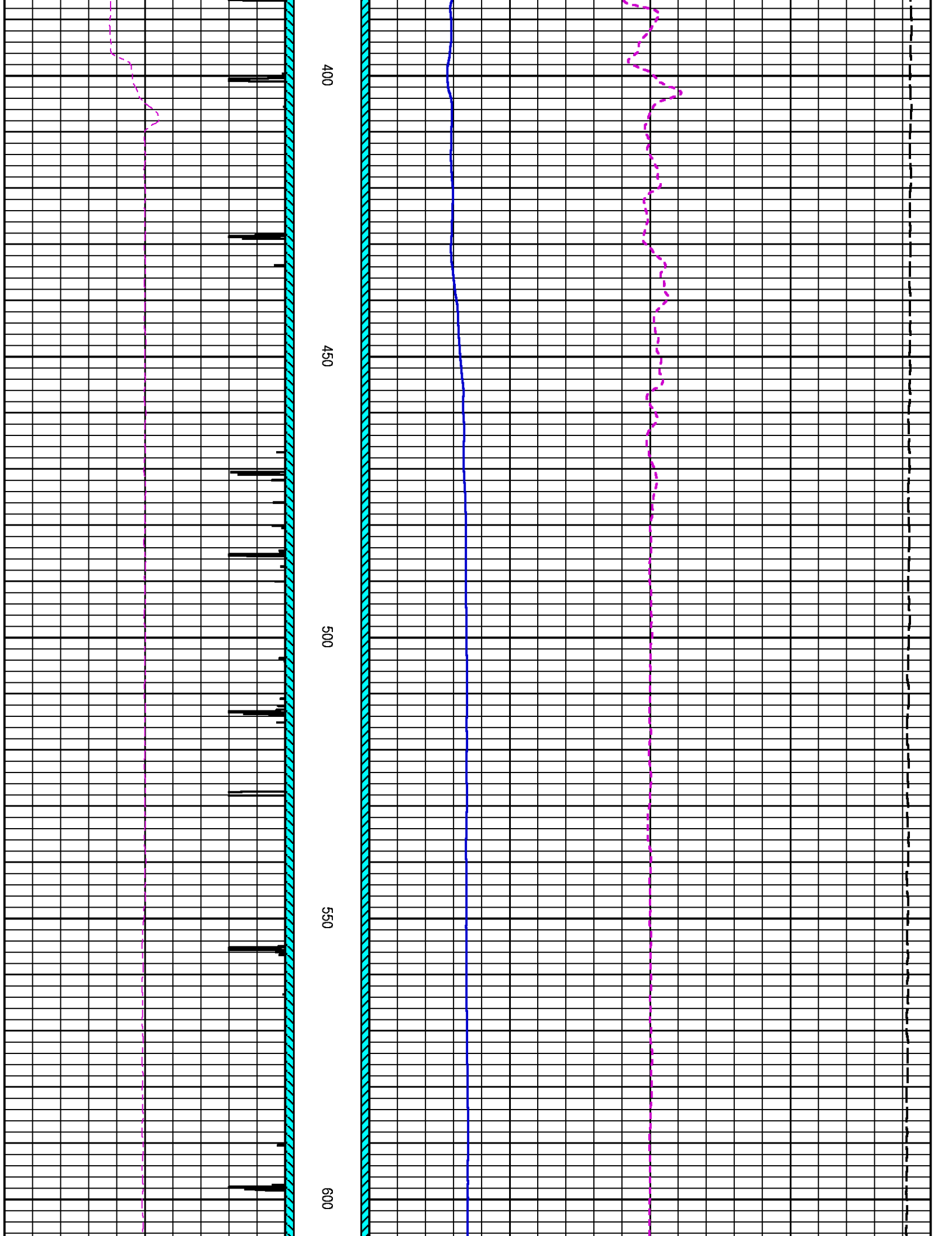
CCLQ1	SPD	TEN
DTEM	TEMP	
-0.75	-0.75	0.00

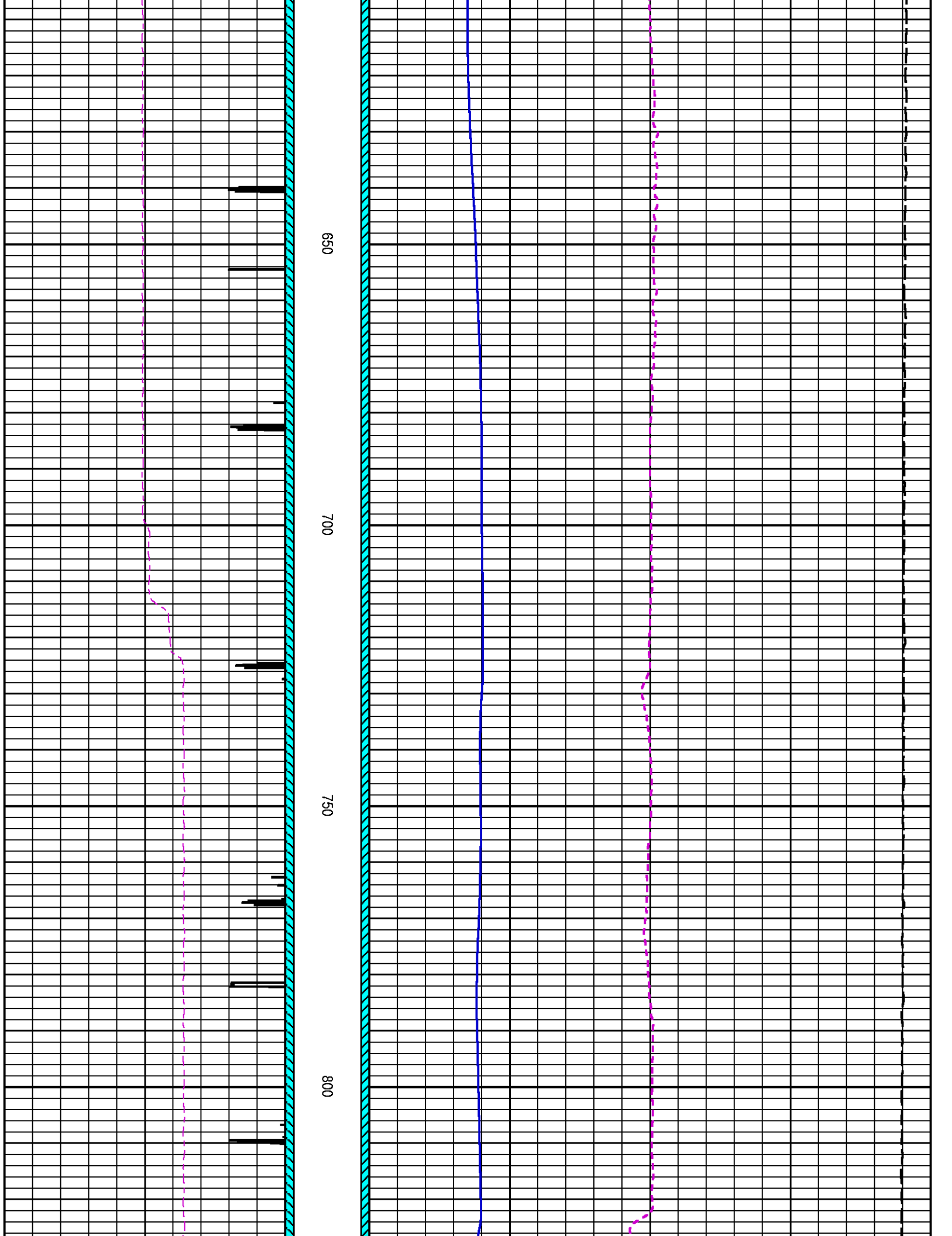
Presentation : SysA:/dat1a/md11798R12/gr-temp.fvpdf [5"/100' Scale]
Plot Interval : 26 - 5486 Feet

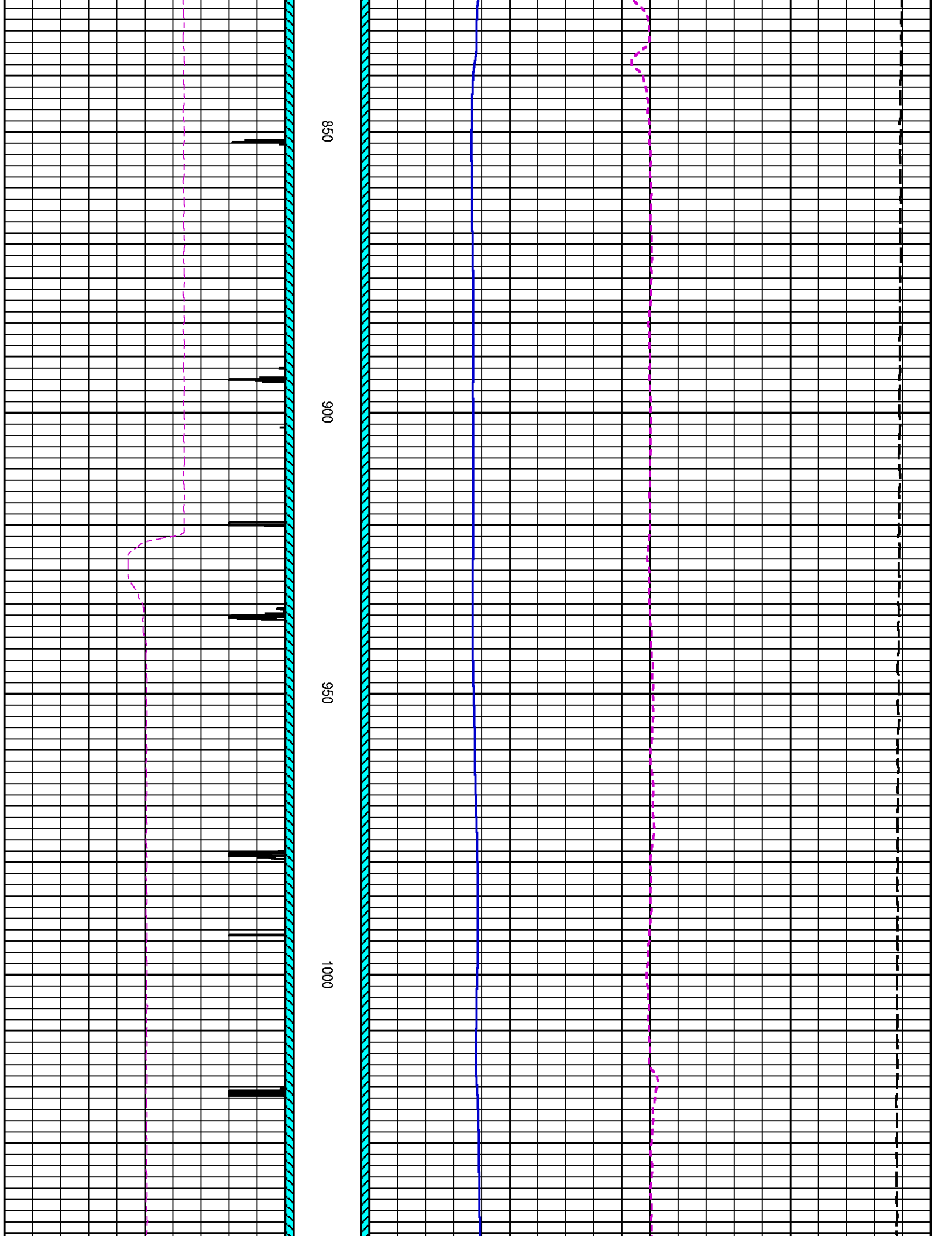
Data File 1 : F1 : SysA:/dat1a/md11798R12/p353bTEMP01.aff
Created On : N/A
Company : HOLLY FRONTIER - NAVAJO
Well : NAVAJO REFINING WDW #4
Field : ARTESIA
File Interval : 24.625 - 5488.75 Feet
OCT : p353bTEM

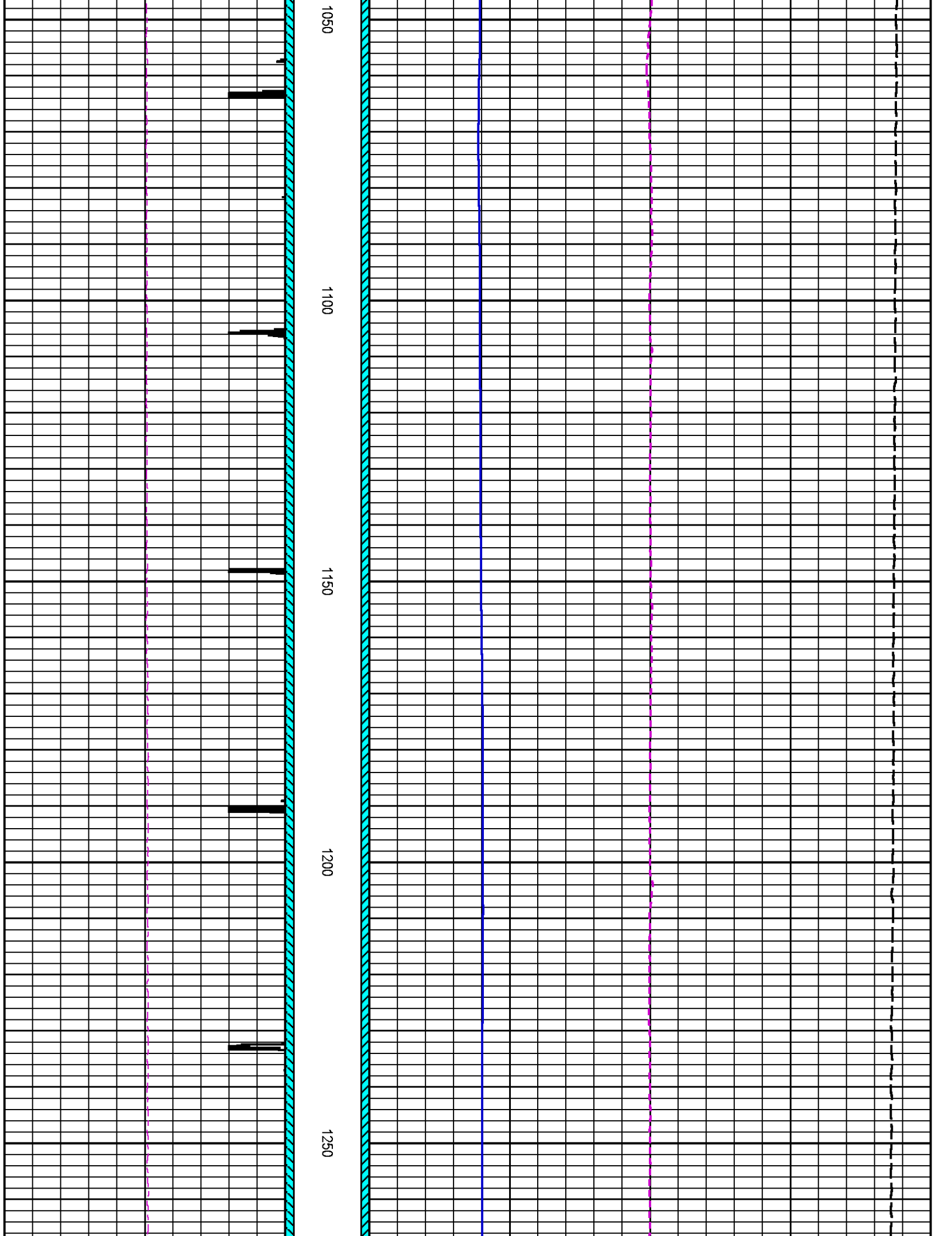


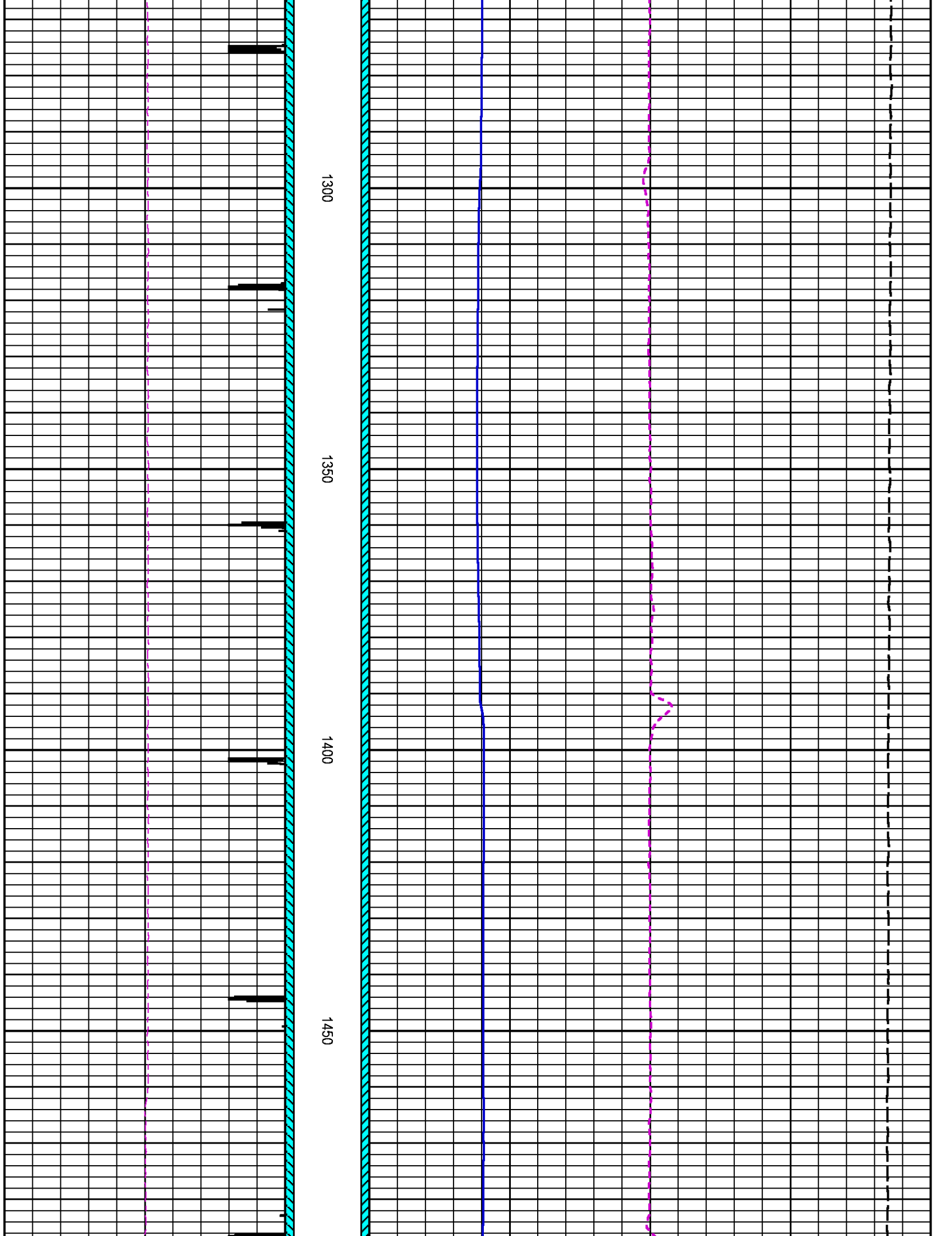


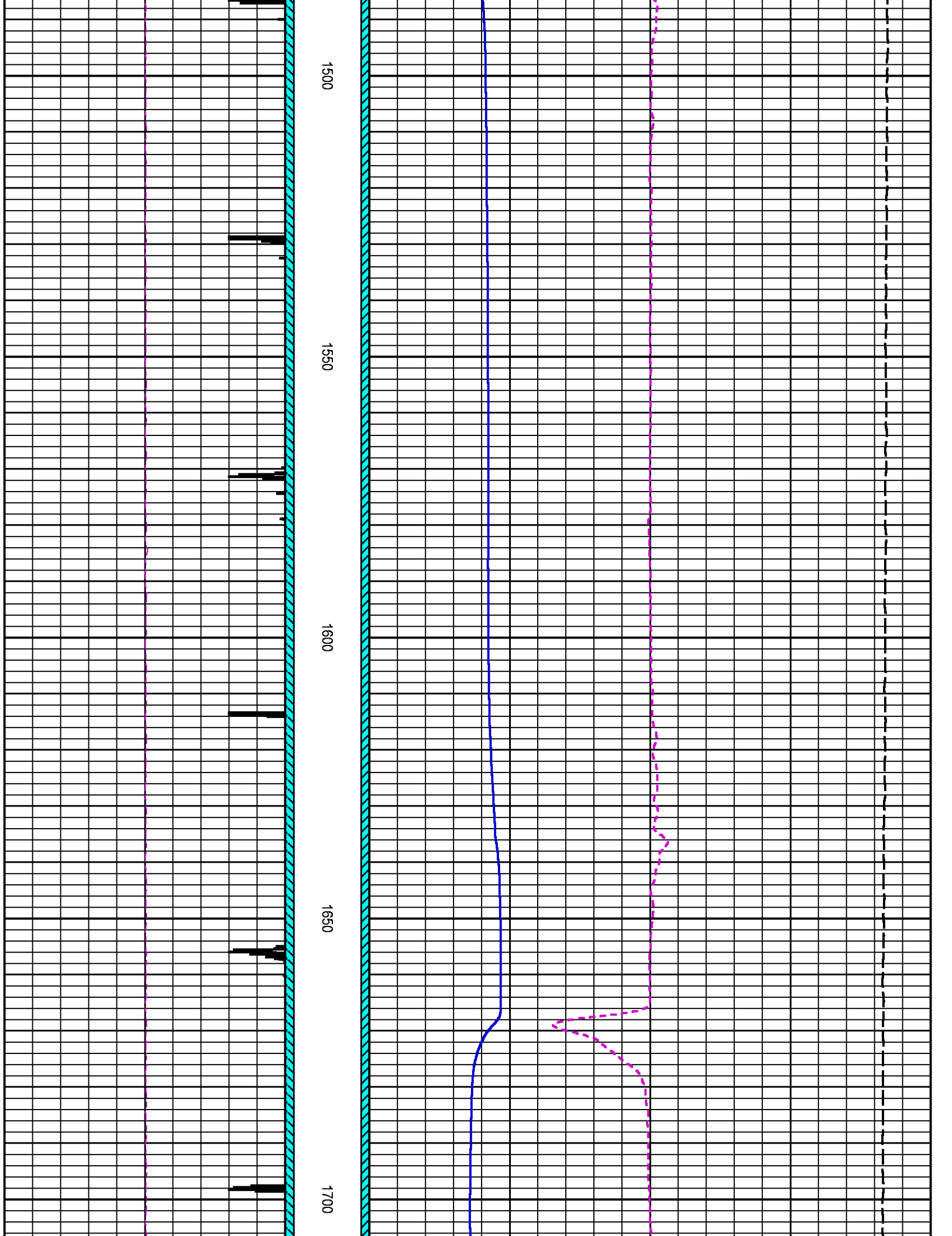


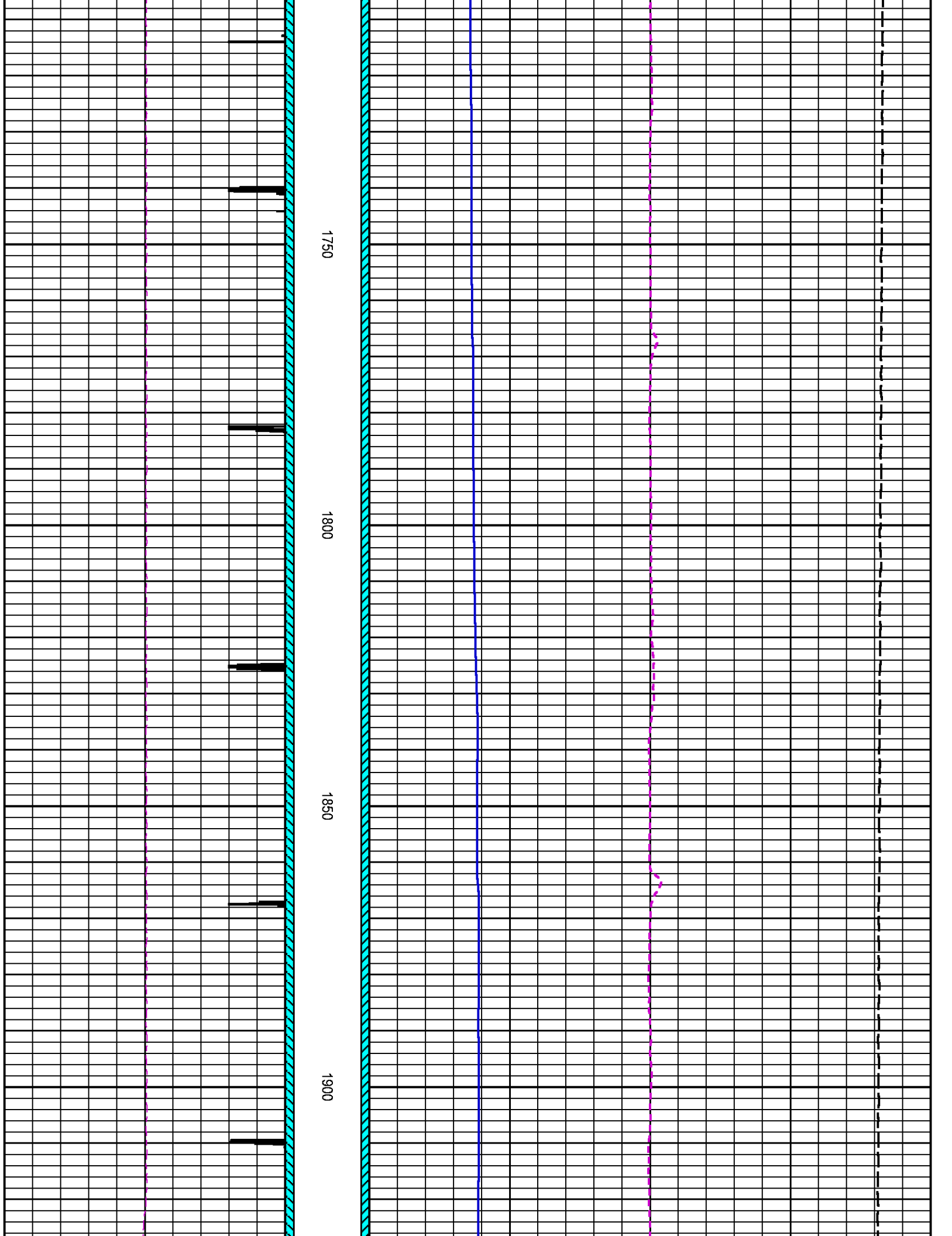


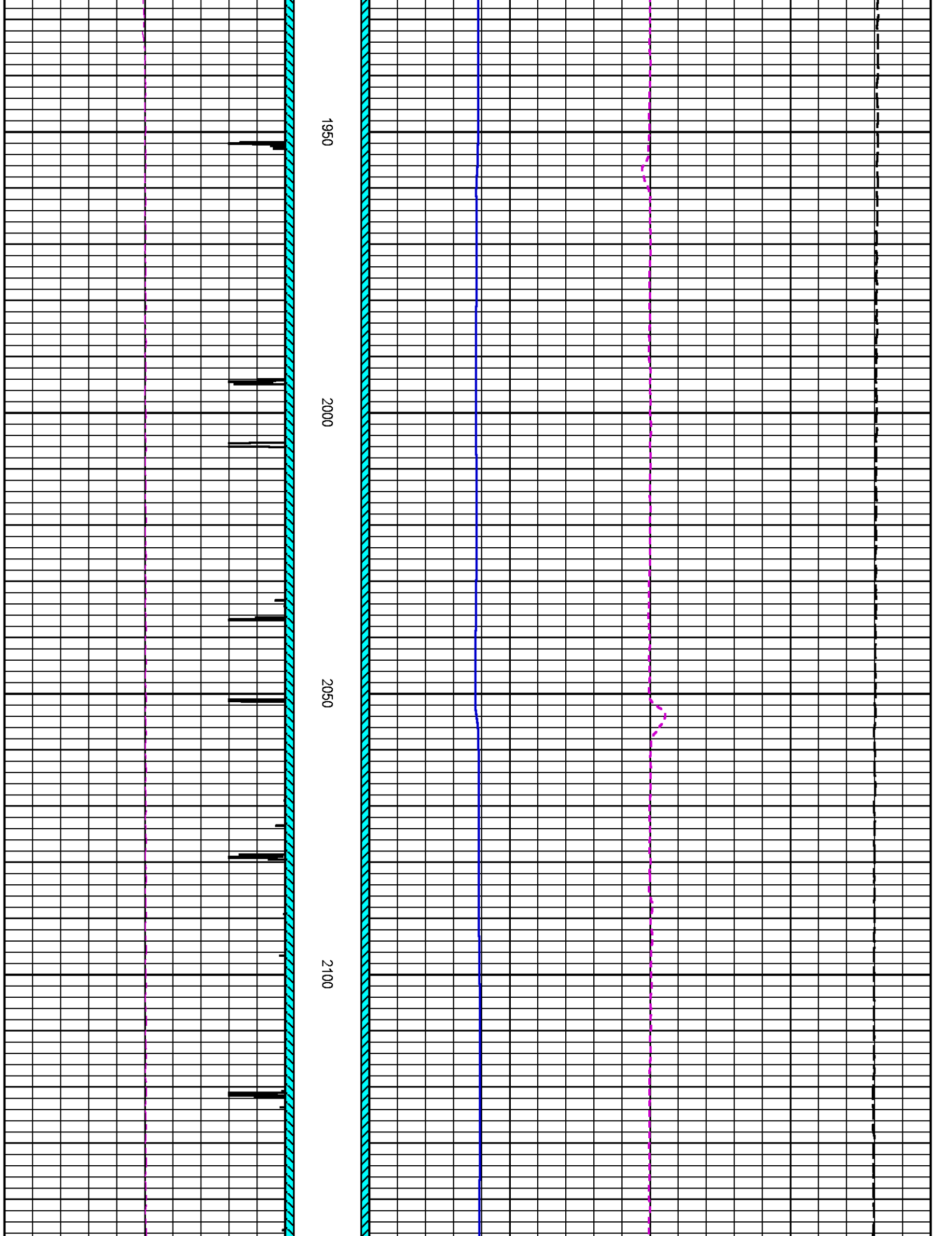


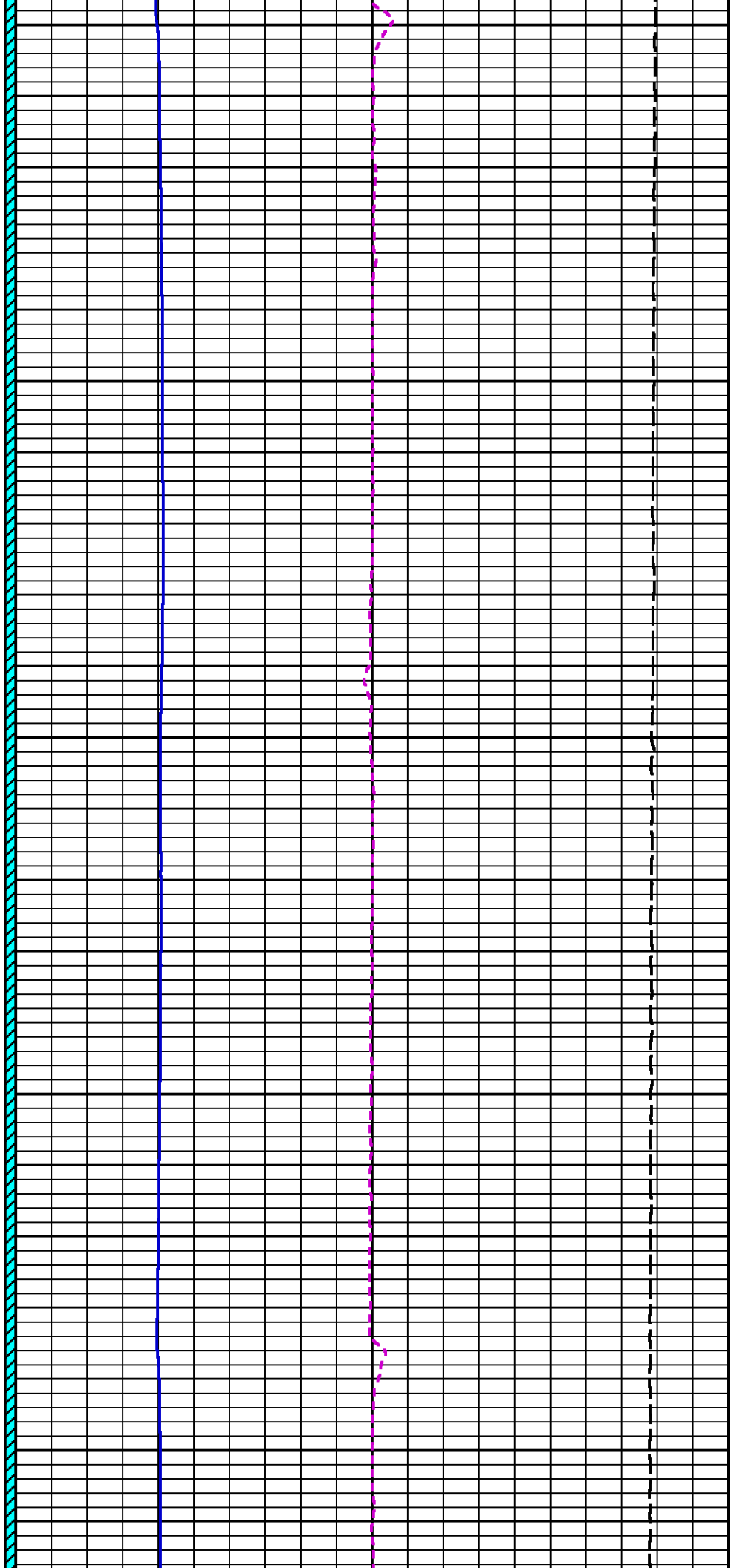












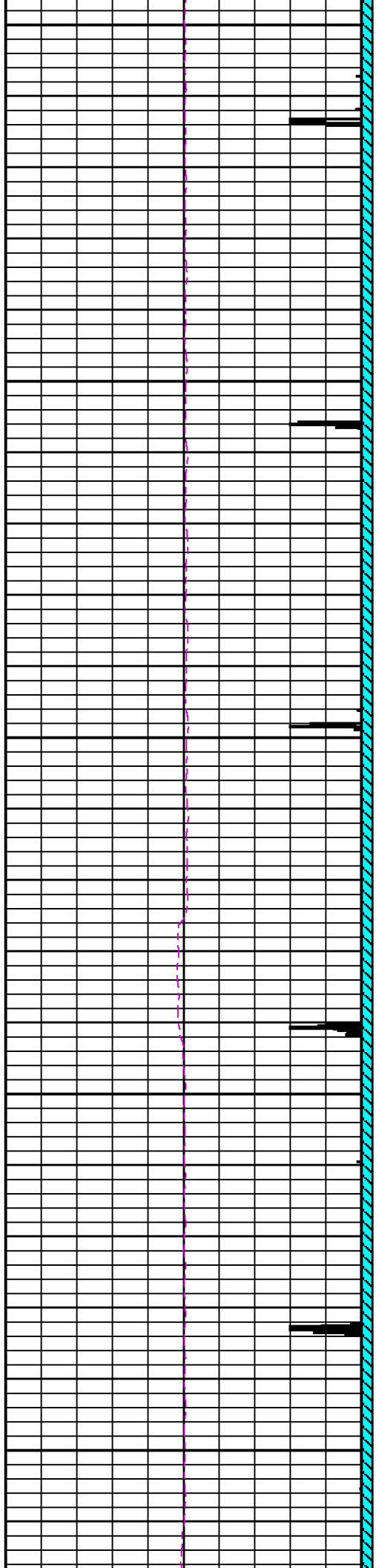
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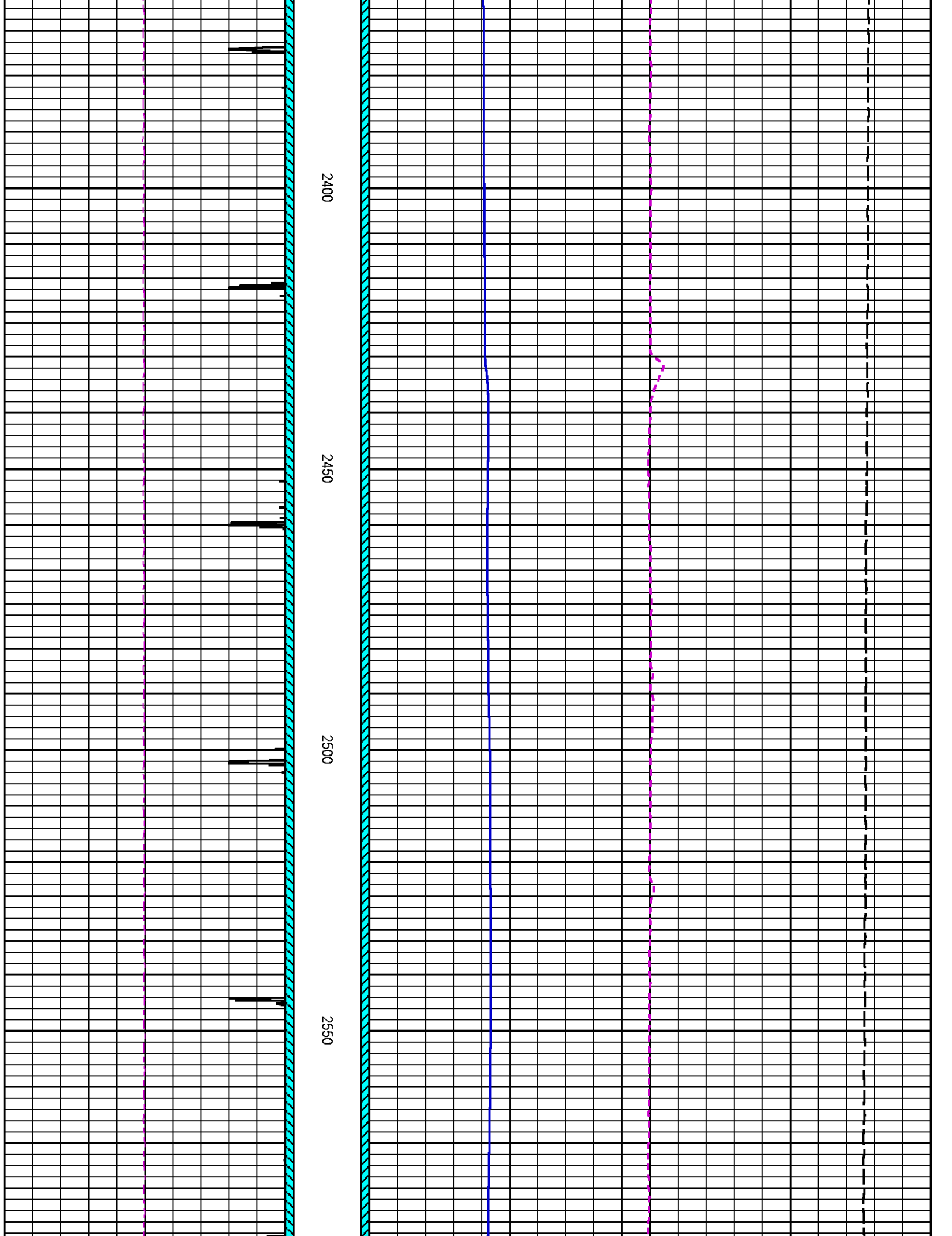
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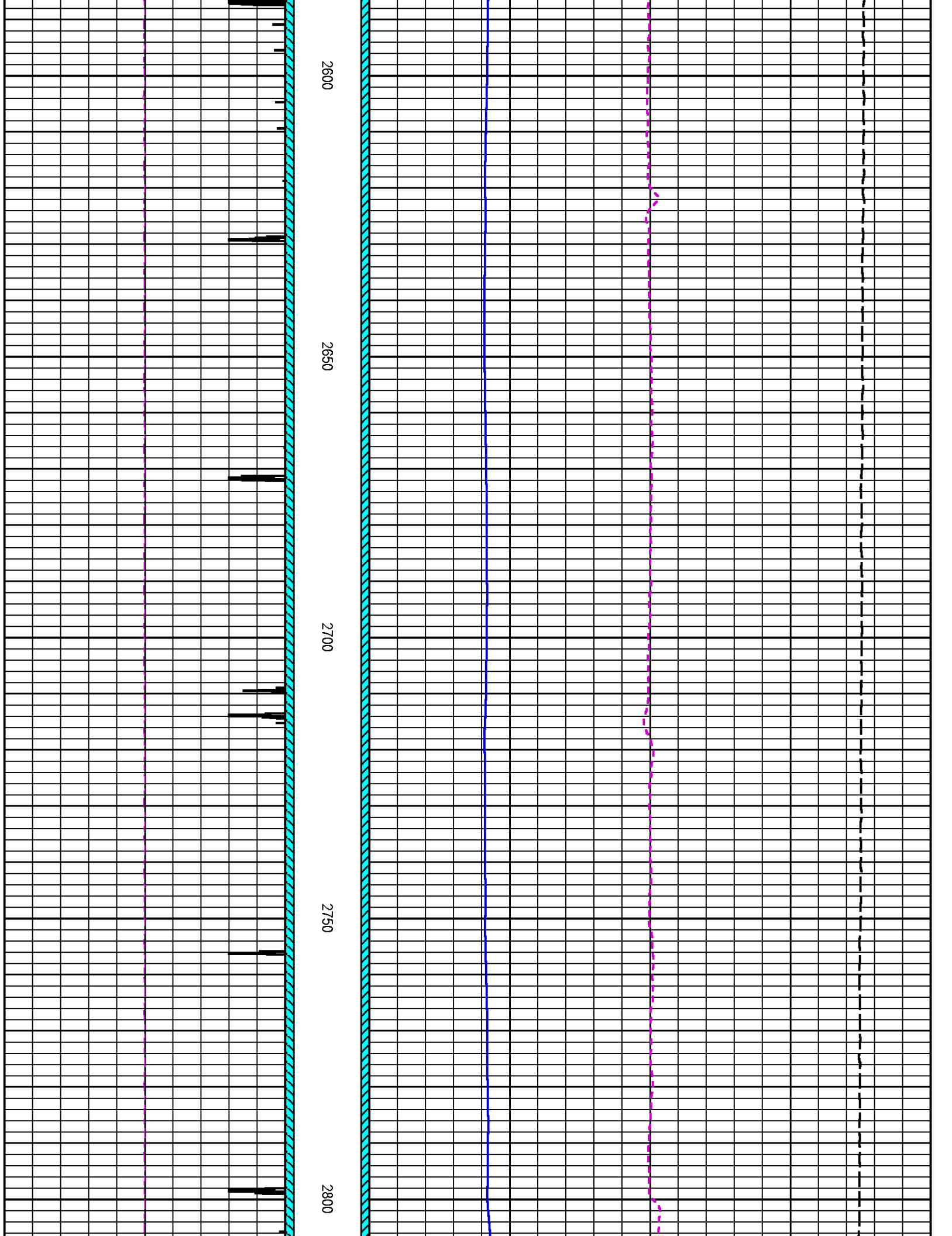
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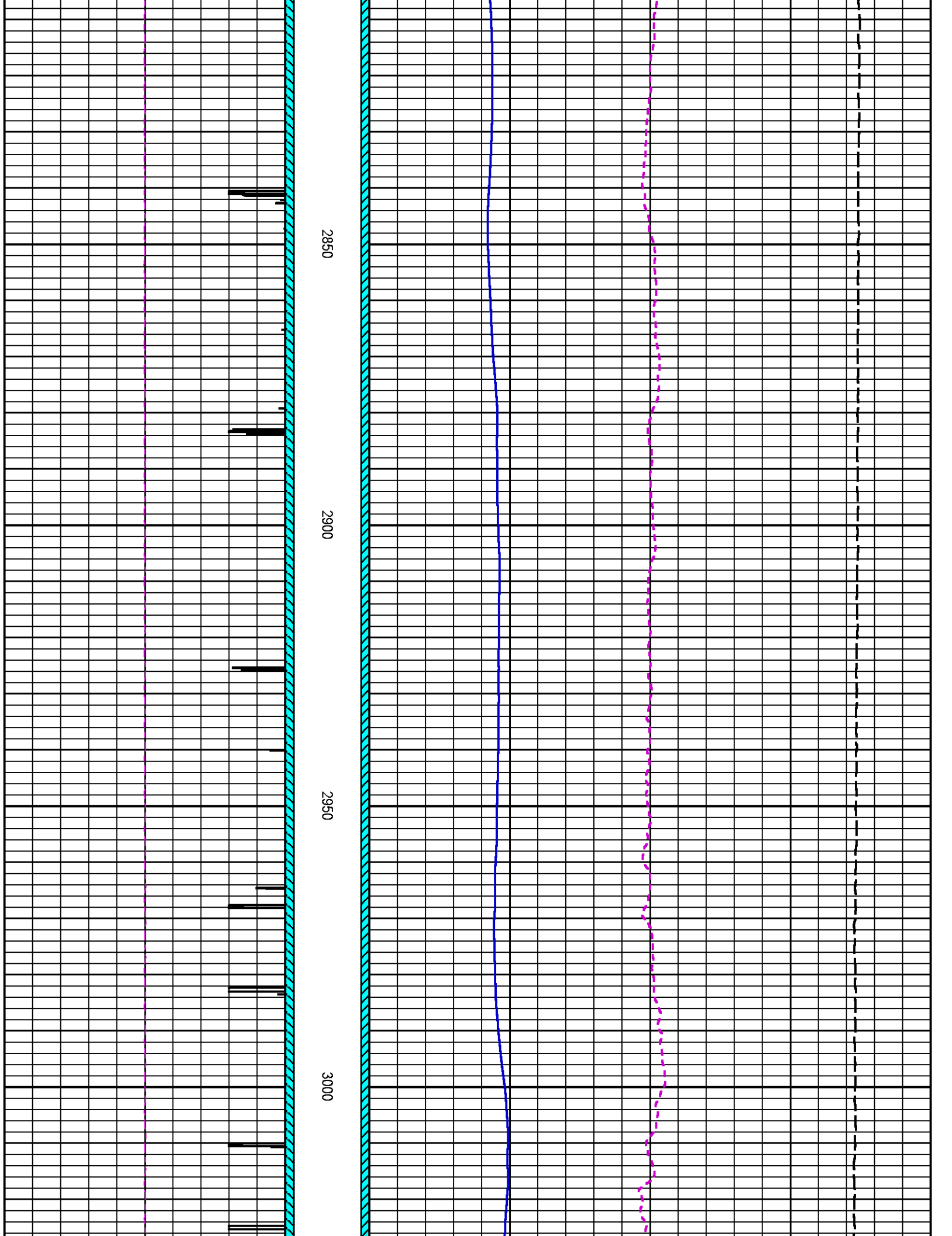
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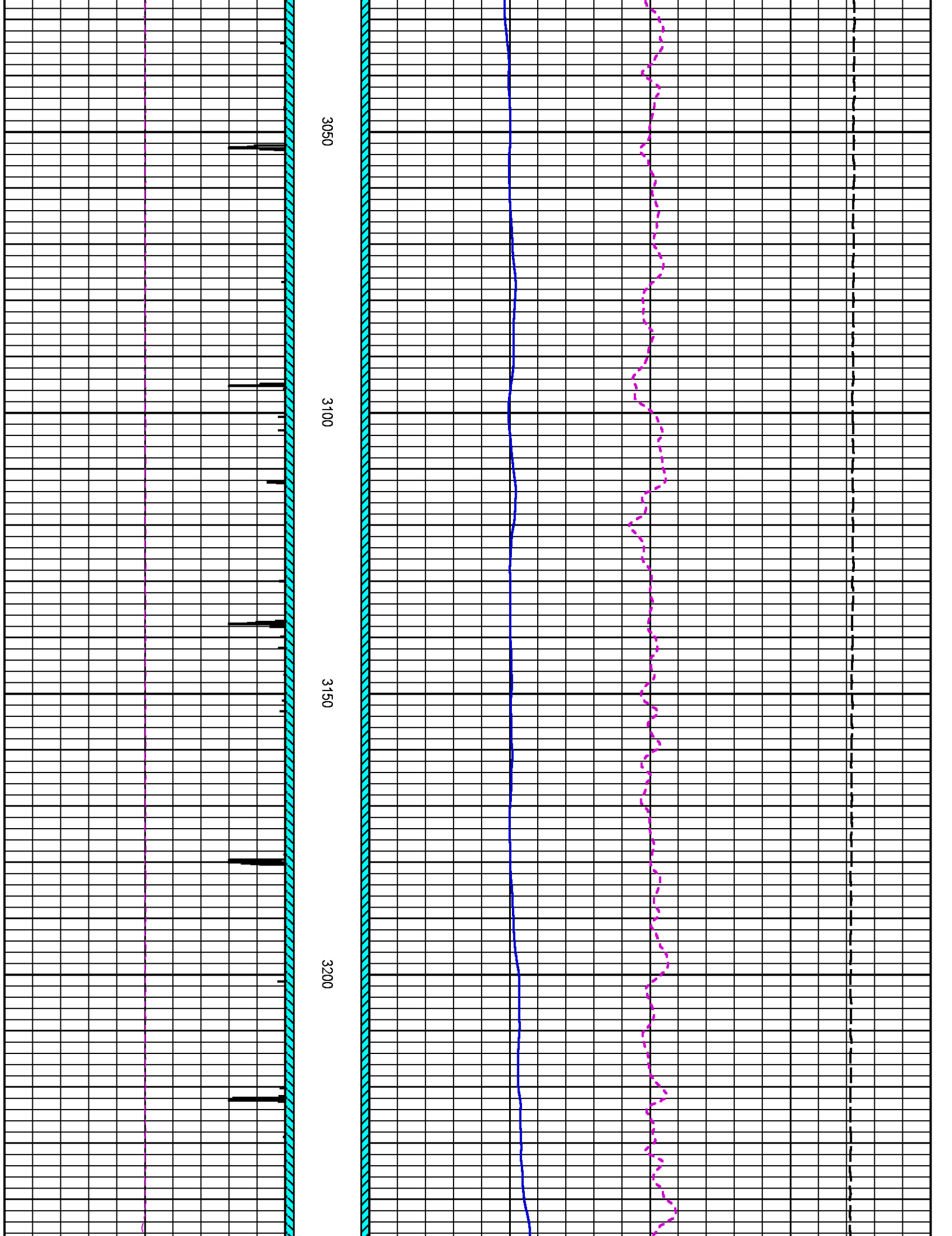
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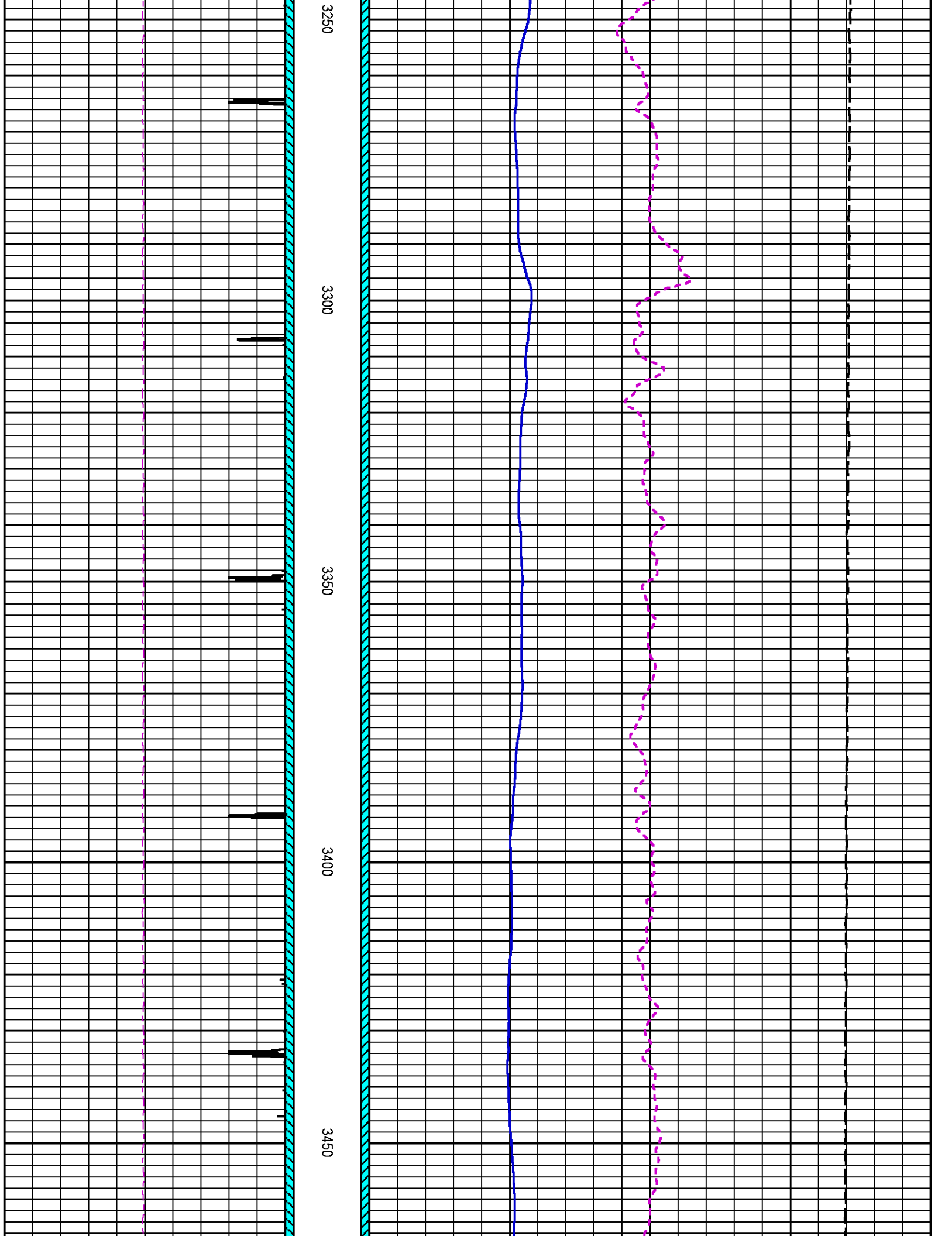


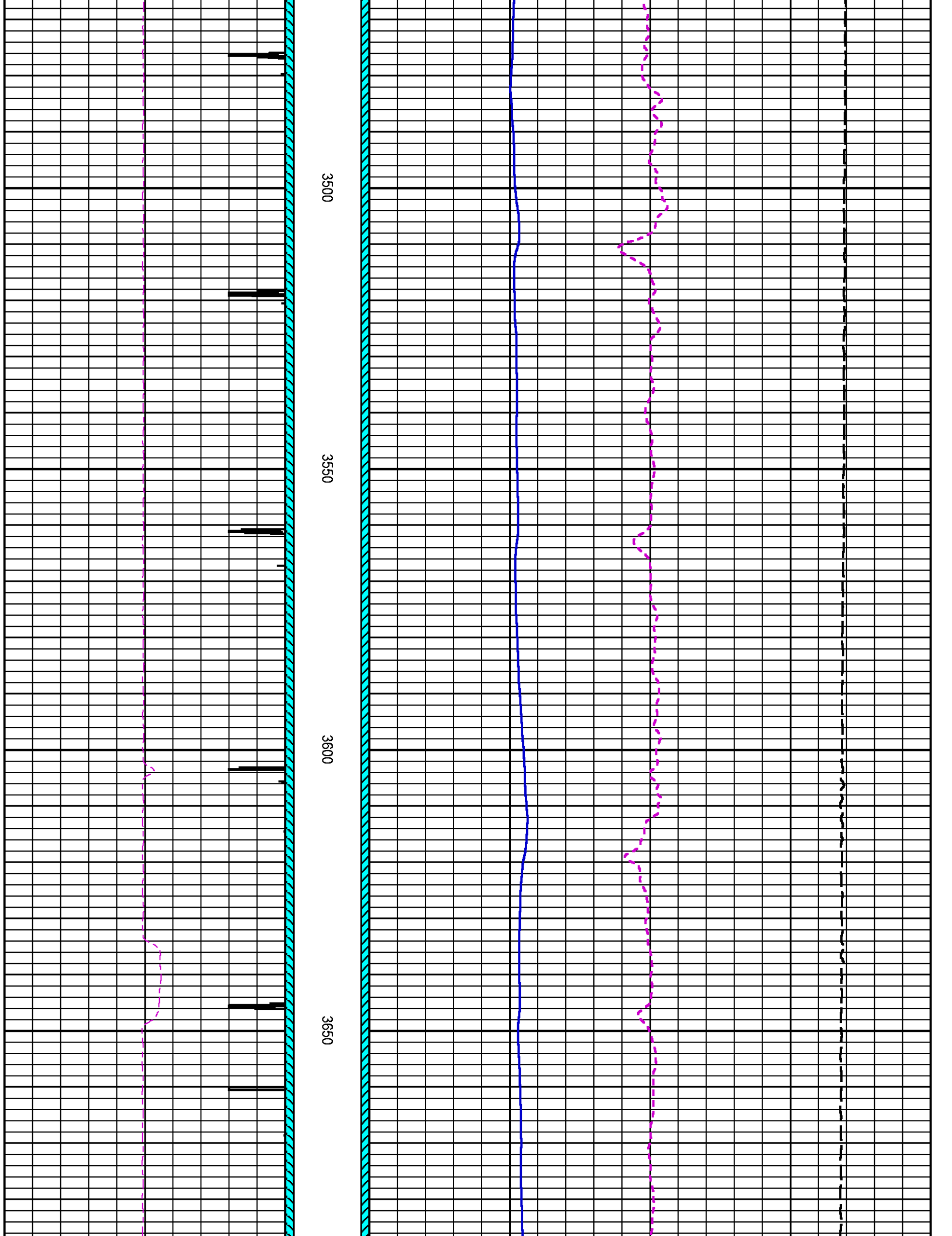


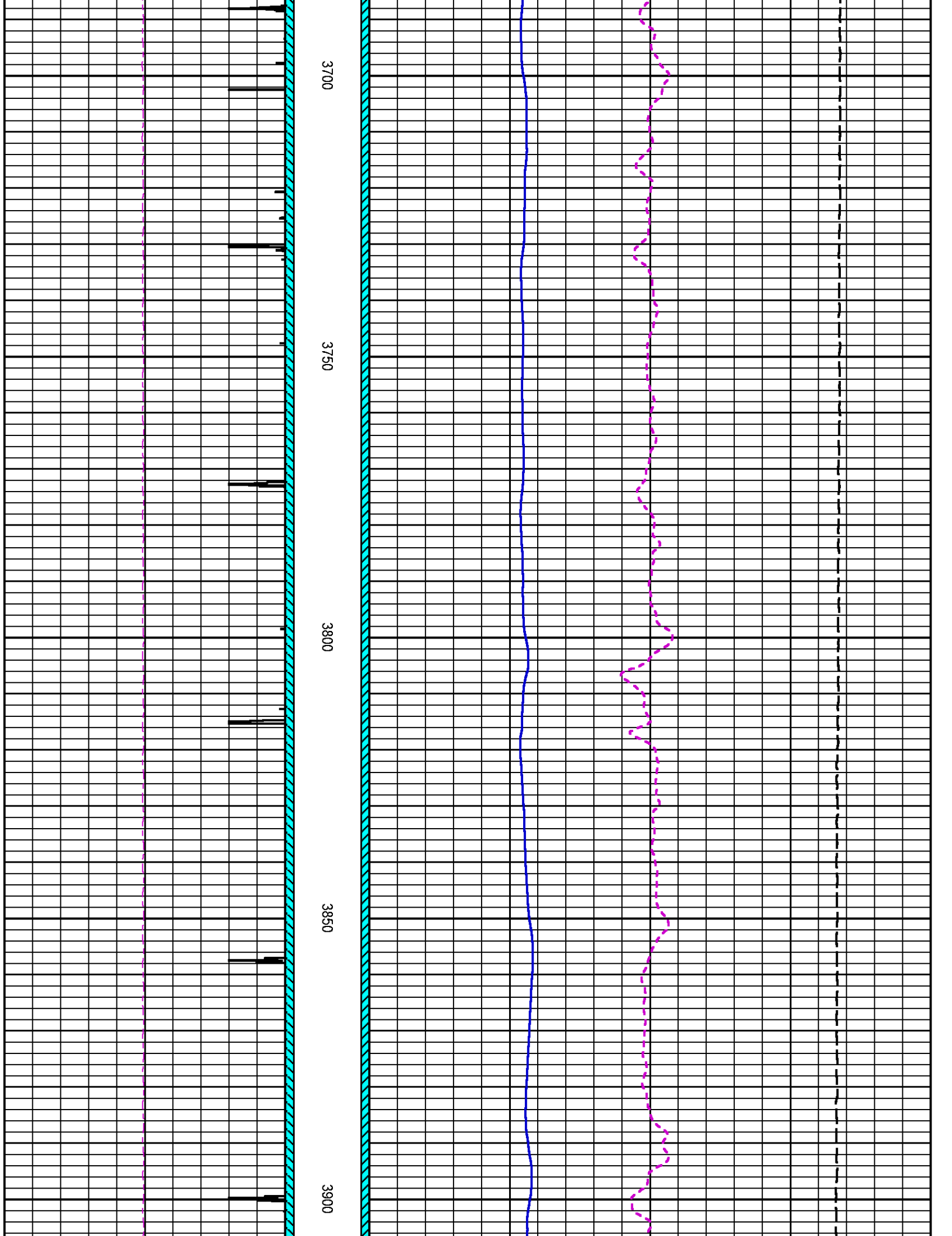


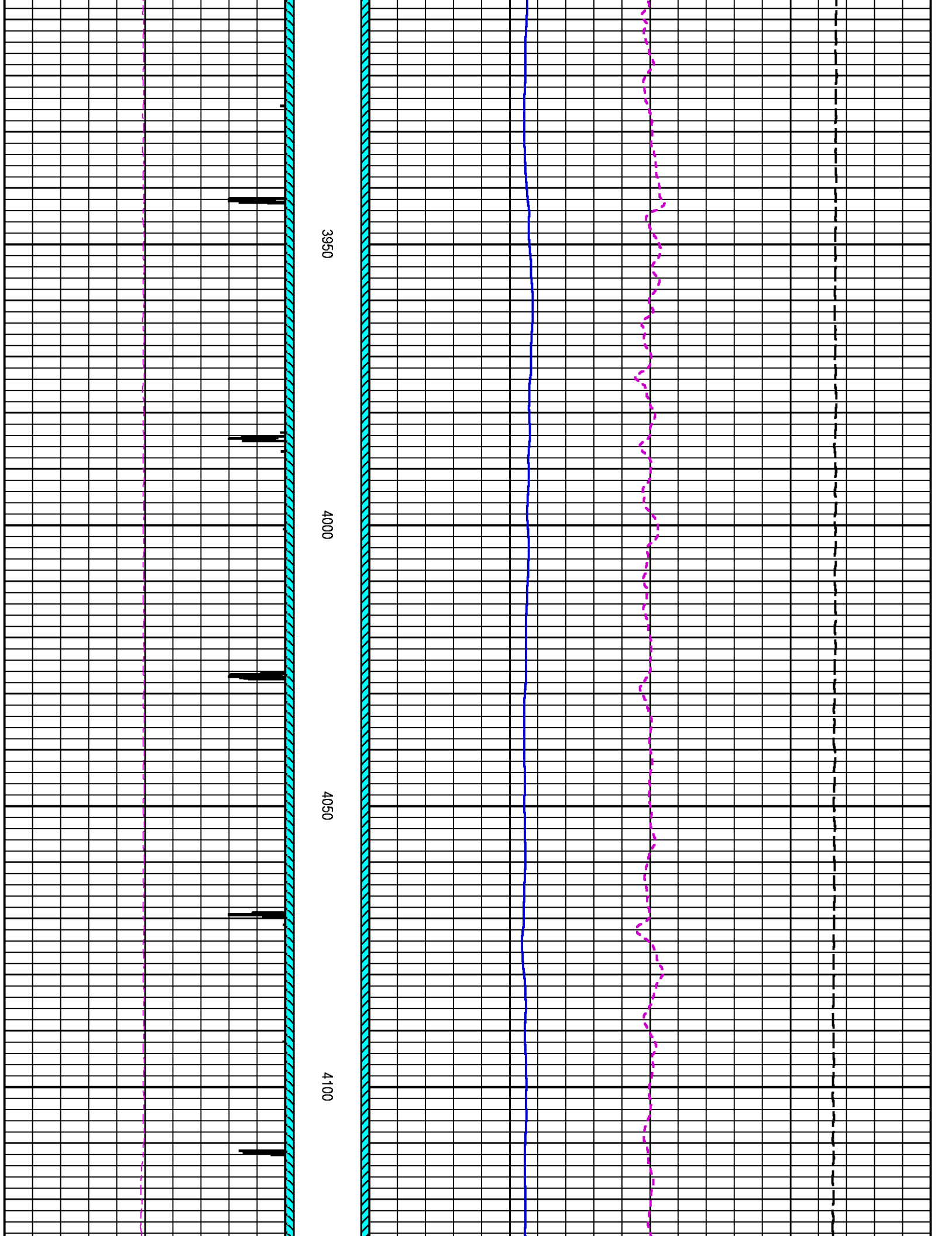


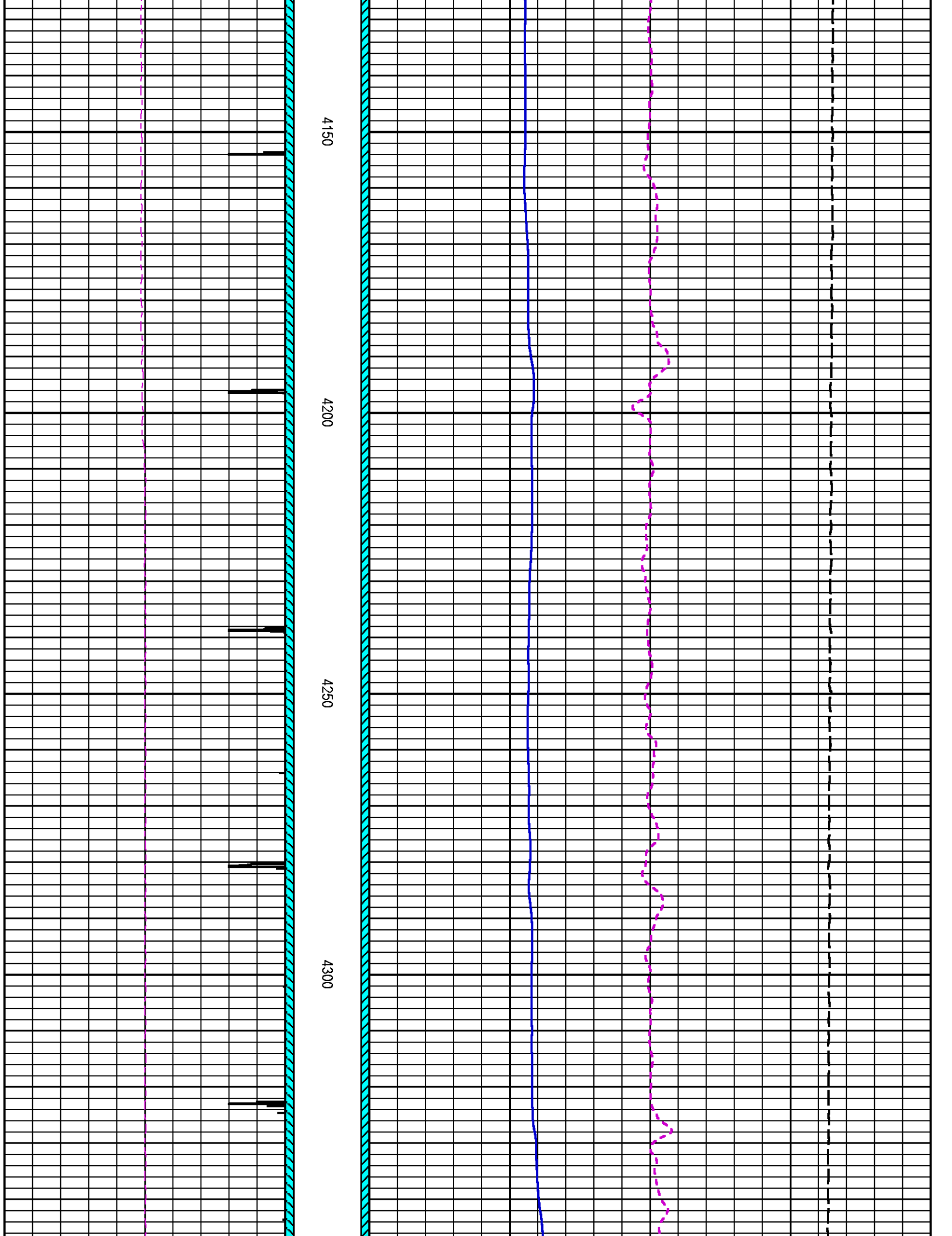












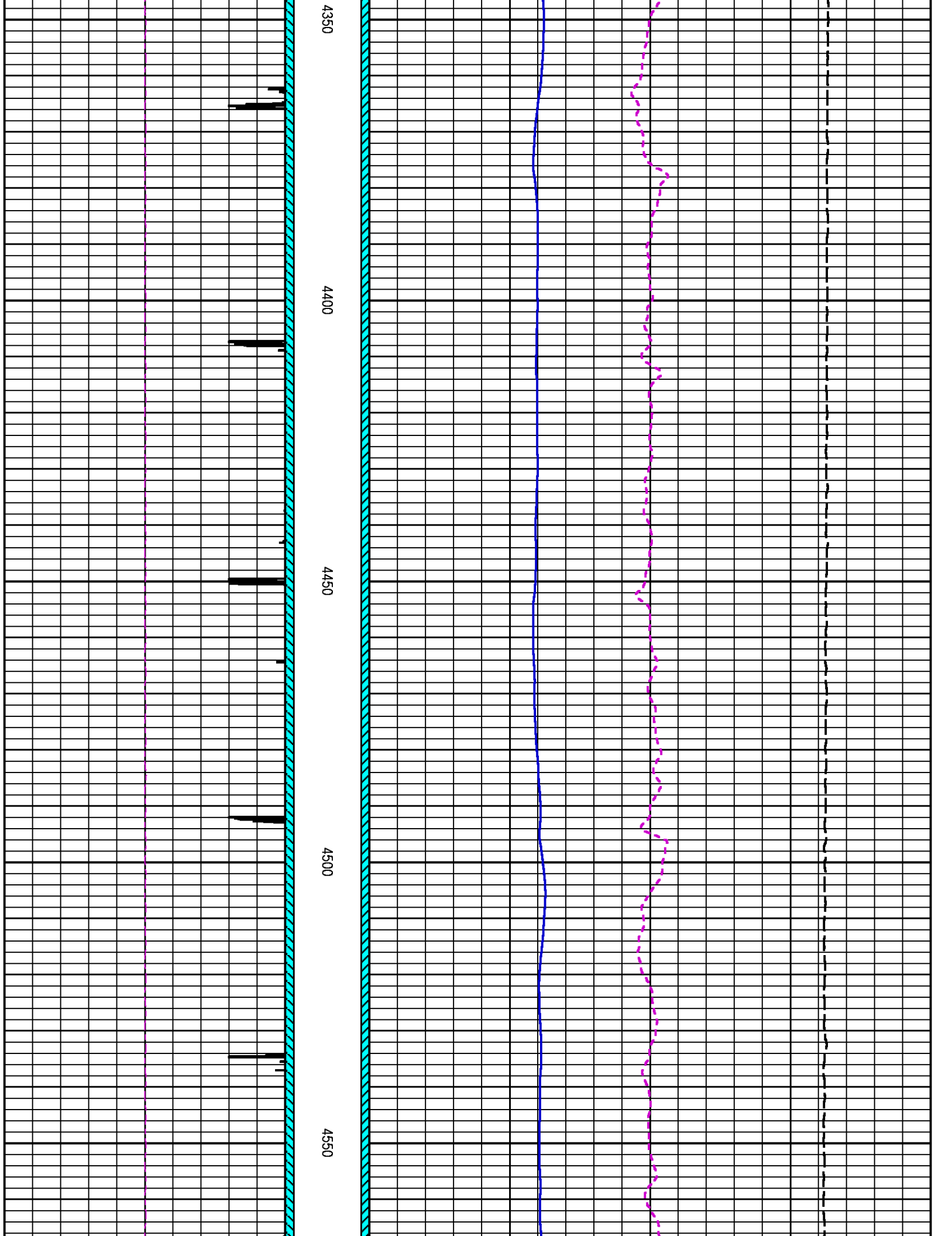
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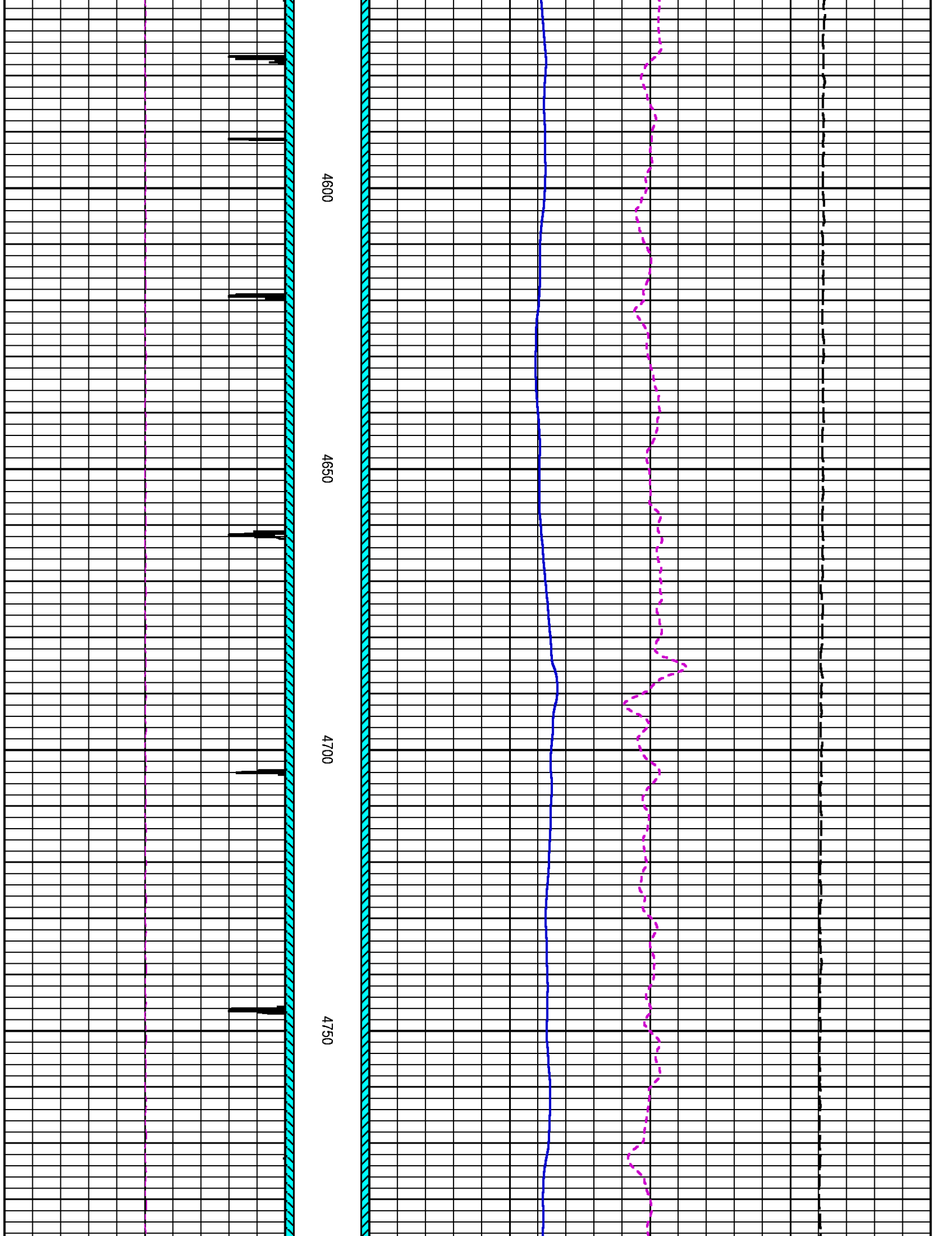
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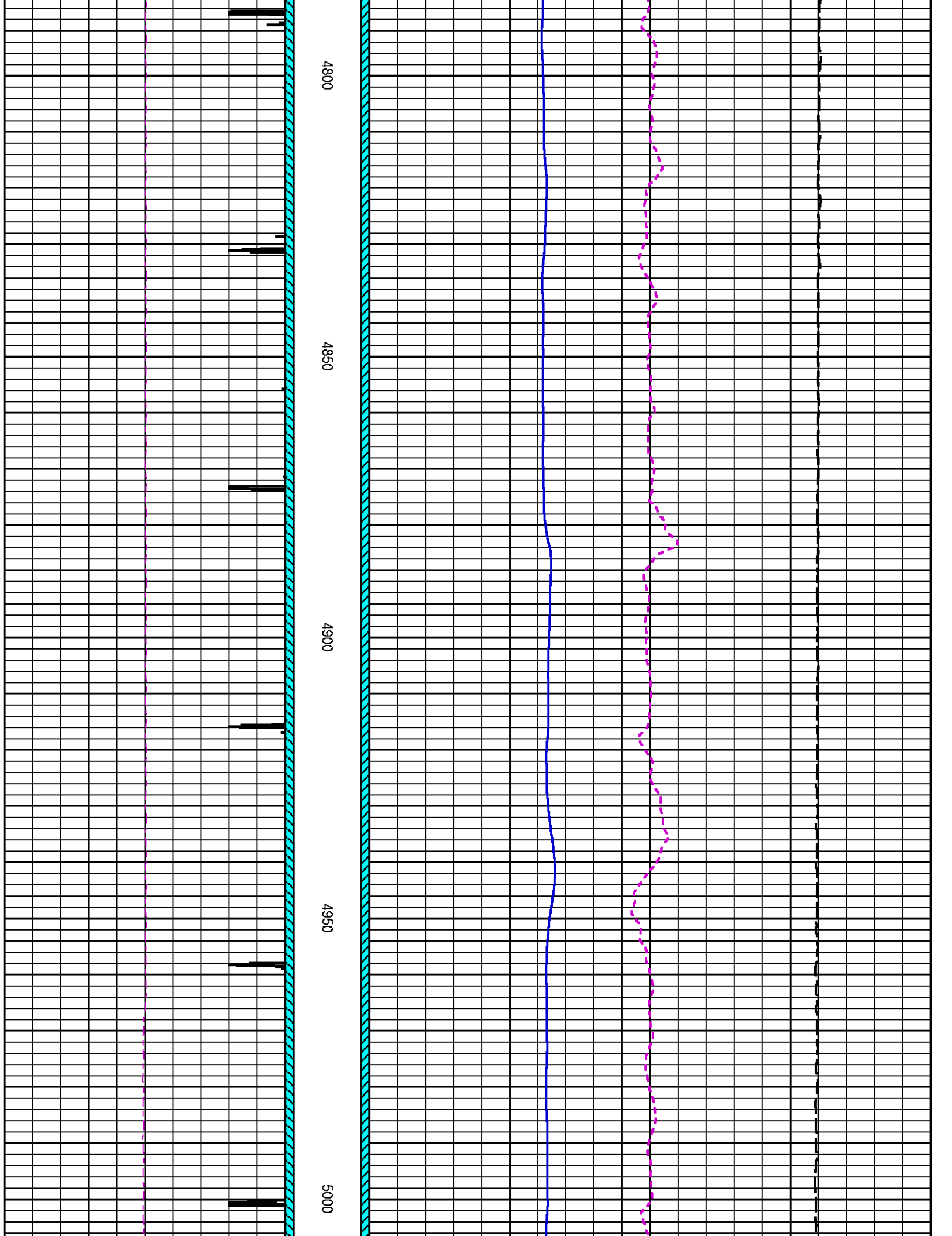
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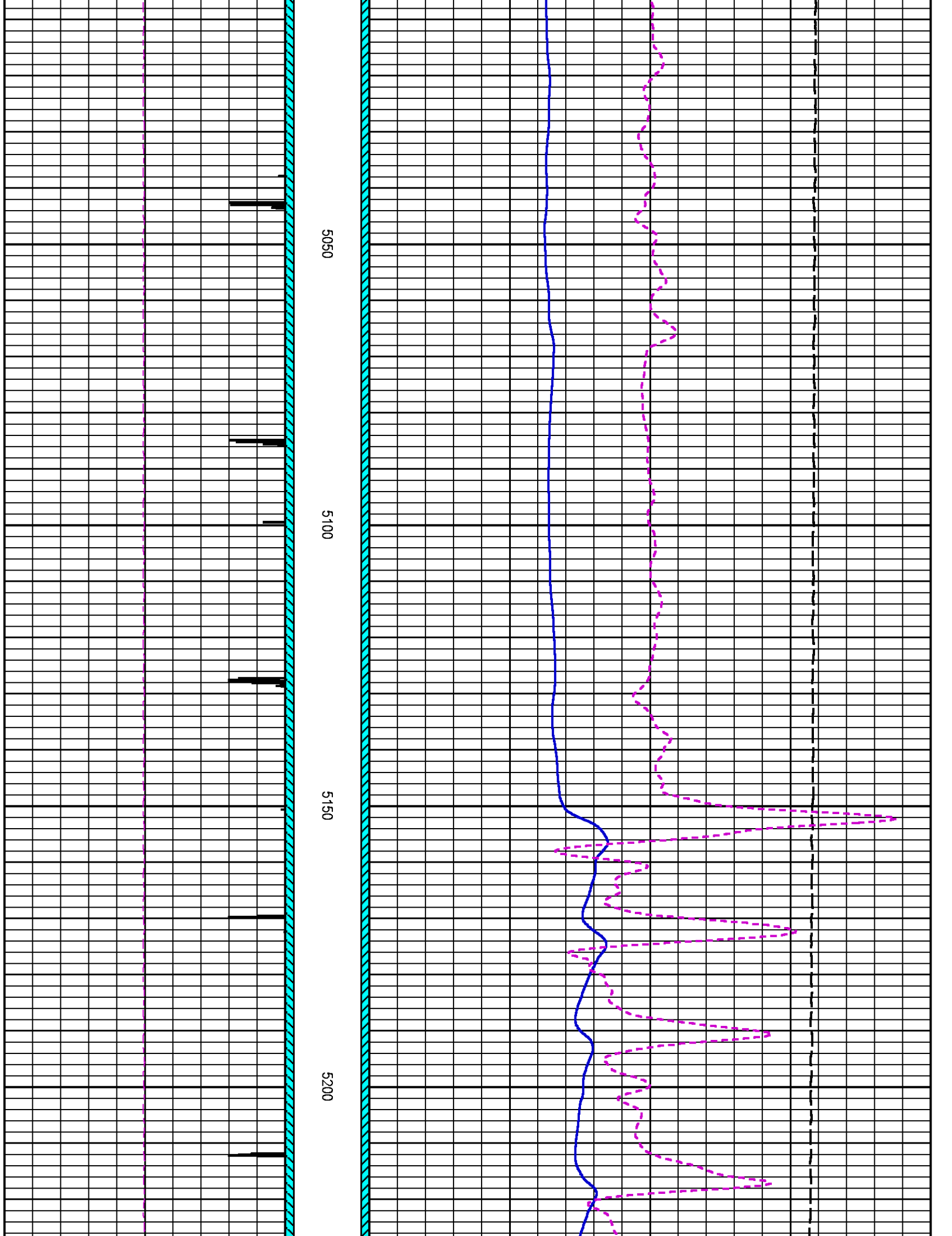
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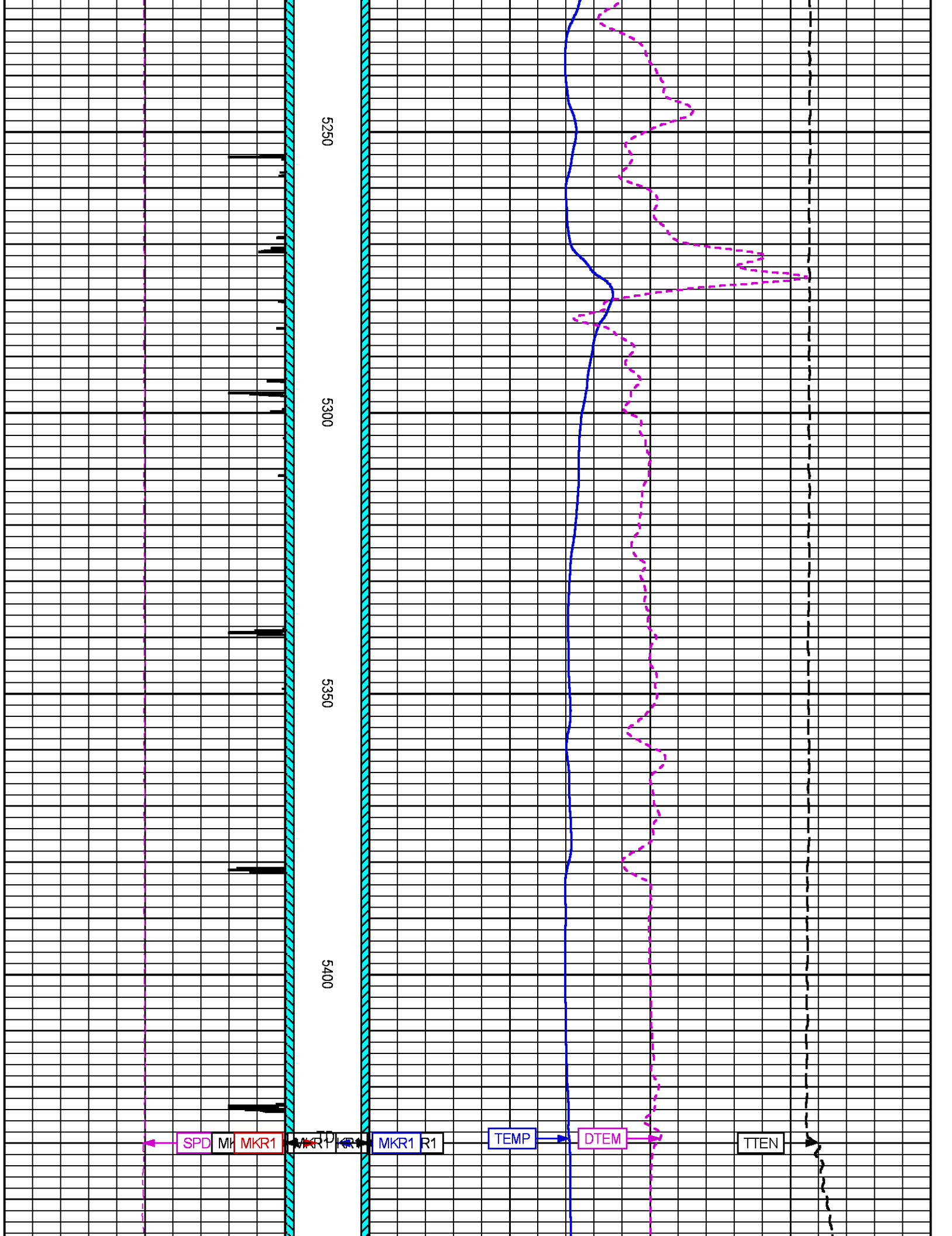
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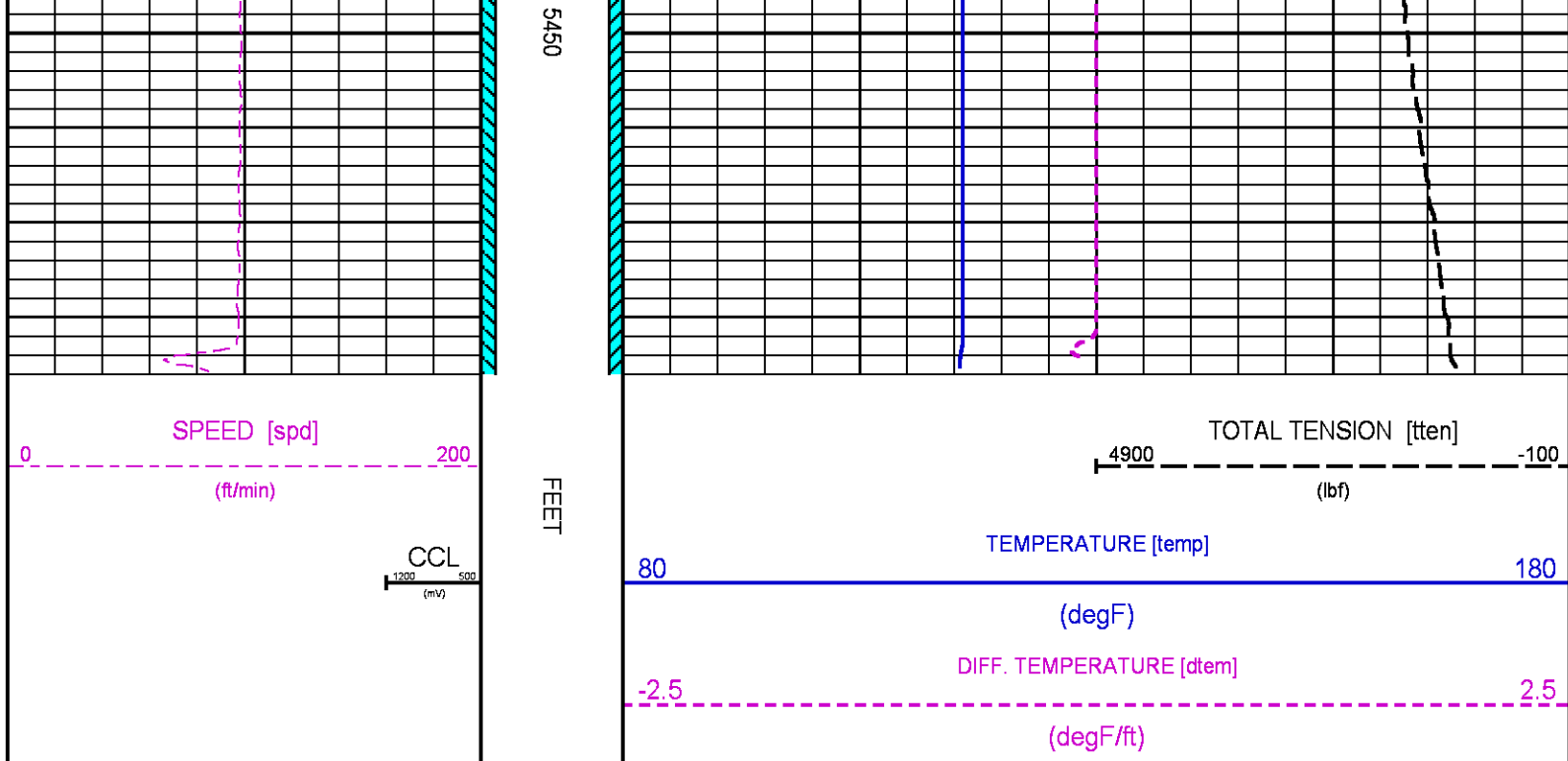












 	COMPANY <u>WSP USA, INC.</u>	FILE NO: <u>MD11798</u>
	WELL <u>NAVAJO REFINING WDW #4</u>	API NO: <u>30-015-44677</u>
	FIELD <u>ARTESIA</u>	
	COUNTY <u>EDDY</u> STATE <u>NEW MEXICO</u>	
LOCATION: 1217' FSL & 2443' FWL SECTION 23, T17S, R27E N.M.P.M. SURVEY	ELEVATIONS: KB 3585.8 FT DF 3584.8 FT GL 3565.8 FT	
	DATE <u>27-JUL-2018</u>	

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: Fri Jul 27 17:26:49 2018

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/md11798/R12/p353b/TEMP01.prm
LOGGING MODE: DEPTH DIRECTION: DOWN
TOP DEPTH: 63.675 ft BOTTOM DEPTH: 5486.750 ft

SYMMETRIC FILTER

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

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
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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/md11798/R12/gr-temp1in.fvpdf [1"/100' Scale]
Plot Interval : 25 - 5486 Feet

Data File 1 : F1 : SysA\data1a\md11798R12\p353bTEMP01.af
Created On : N/A
Company : HOLLY FRONTIER - NAVAJO
Well : NAVAJO REFINING WDW #4
Field : ARTESIA
File Interval : 24.625 - 5498.75 Feet
OCT : p353bTEM

