



TEMPERATURE LOG

FILE NO: MD11800	COMPANY HOLLY FRONTIER - NAVAJO
API NO: 30-015-44677	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 SBT
FINAL PRINT		

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	TRIP	11-May-2018	
RUN	1	1	
SERVICE ORDER	133677		
DEPTH DRILLER	1680 FT		
DEPTH LOGGER	1619 FT		
BOTTOM LOGGED INTERVAL	1619 FT		
TOP LOGGED INTERVAL	50 FT		
TIME STARTED	14:30		
TIME FINISHED	19:30		
OPERATOR RIG TIME	5 HRS		
TYPE OF FLUID IN HOLE	WBM		
FLUID DENSITY	9.5 LB/G		
FLUID SALINITY	NA		
FLUID LEVEL	0 FT		
LOGGED CEMENT TOP	70 FT		
WELLHEAD PRESSURE	0 PSI		
MAXIMUM HOLE DEVIATION	NL		
NOMINAL LOGGING SPEED	30 FMIN		
MAX. RECORDED TEMP.	105.9 DEGF		
REFERENCE LOG	SBT-VDL-GR-CCL		
REFERENCE LOG DATE	11-MAY-2018		
EQUIP. NO.	HL6845	MIDLAND, TX	
RECORDED BY	O. ROBLES / B. TELLER		
WITNESSED BY	K. COOK		

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.

BOREHOLE RECORD		
BIT SIZE	FROM	TO
17.5 IN	80 FT	1680 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
20 IN			0 FT	80 FT
13.375 IN	54.5 LB/F		0 FT	1680 FT

REMARKS

RUN 1 TRIP 1: CASING OD: 13.375 IN
CASING WEIGHT: 54.5 LBS/FT

LOG RUN WITH 0 PSI
LOG CORRELATED TO SBT/VDL/GR/CCL BAKER HUGHES LOG FROM 11-MAY-2018

RIG: PATRIOT #4
CREW: R. SANCHEZ

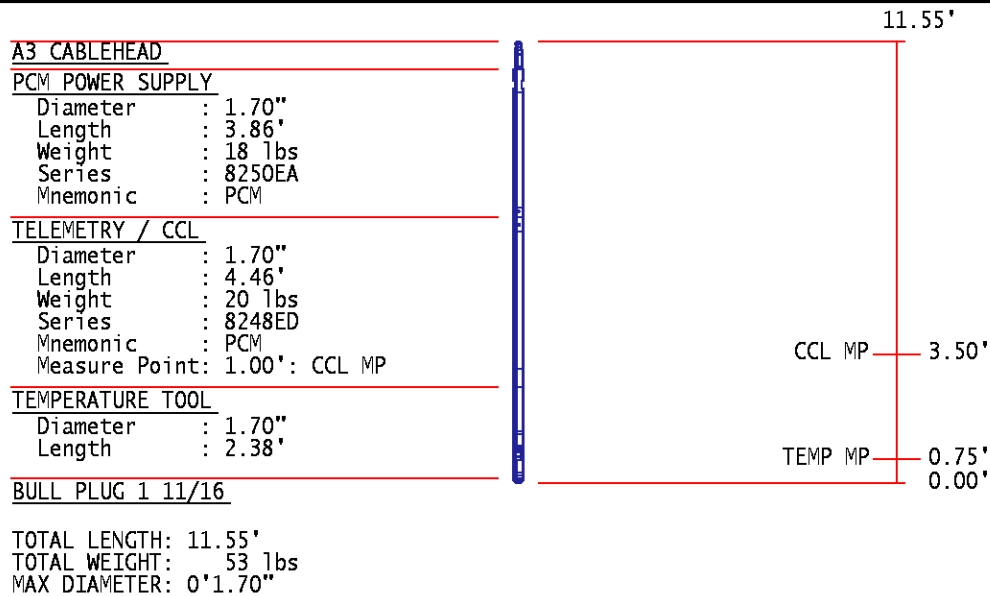
EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	PWR	8250EA	12545935	FREE
1	1	TELEVISION	8250EA	12545935	

1	1	TELEM	8248ED	12539398	FREE
1	1	TEMP	8221XA	095558	FREE

INSTRUMENT CONFIGURATION

Source File: /dat1a/md11800/p353b~TEMP-tdg



TEMPERATURE LOG

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

Updates: 32 Patches: 2

Plotted: Fri May 11 18:49:44 2018

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/md11800/p353b02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 27.882 ft BOTTOM DEPTH: 1610.131 ft

SYMMETRIC FILTER

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

CURVE DESCRIPTION REPORT

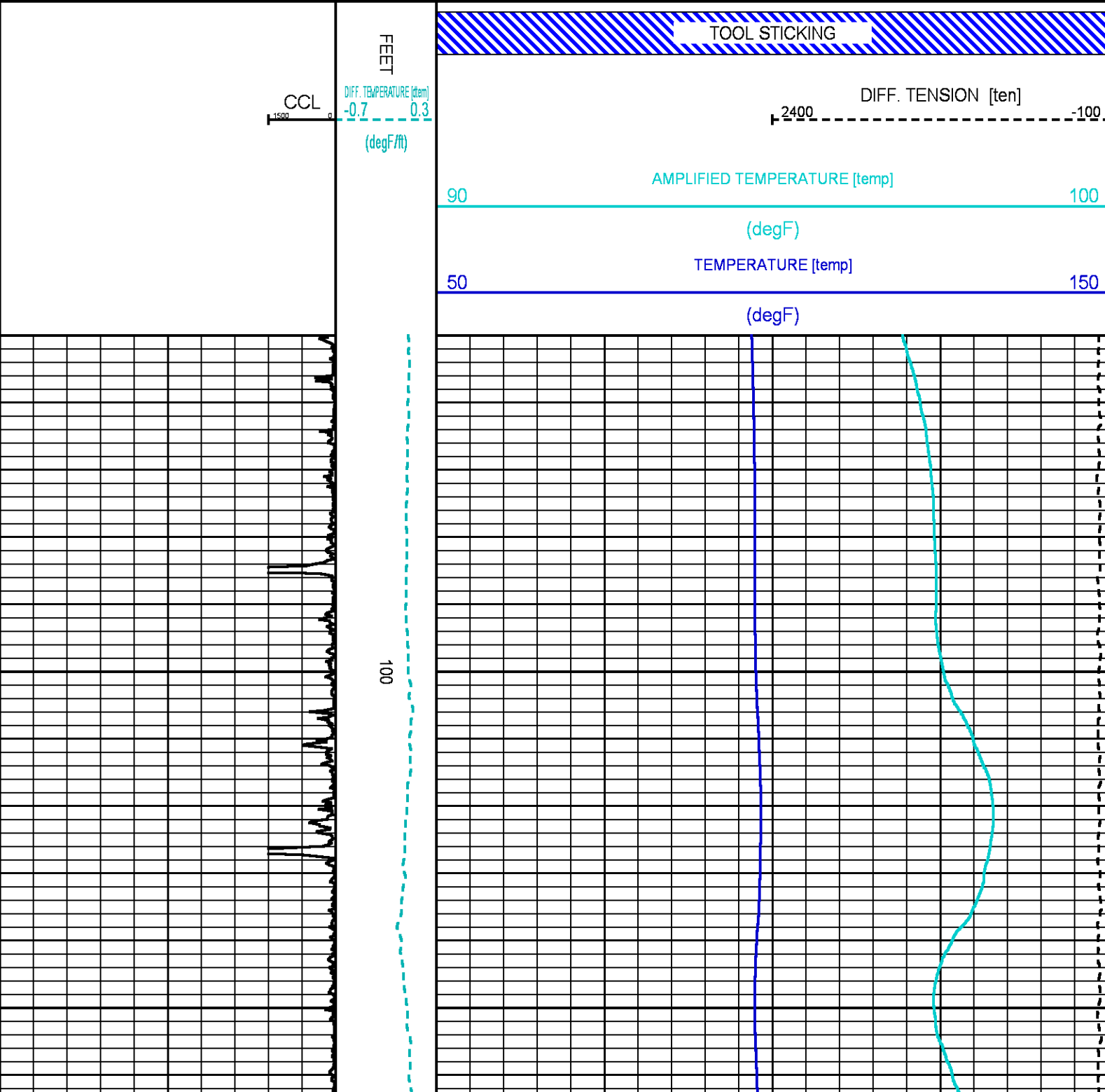
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	N/A	CASING COLLAR LOCATOR
F1:DTEM	N/A	DIFFERENTIAL TEMPERATURE
F1:TEMP	N/A	TEMPERATURE

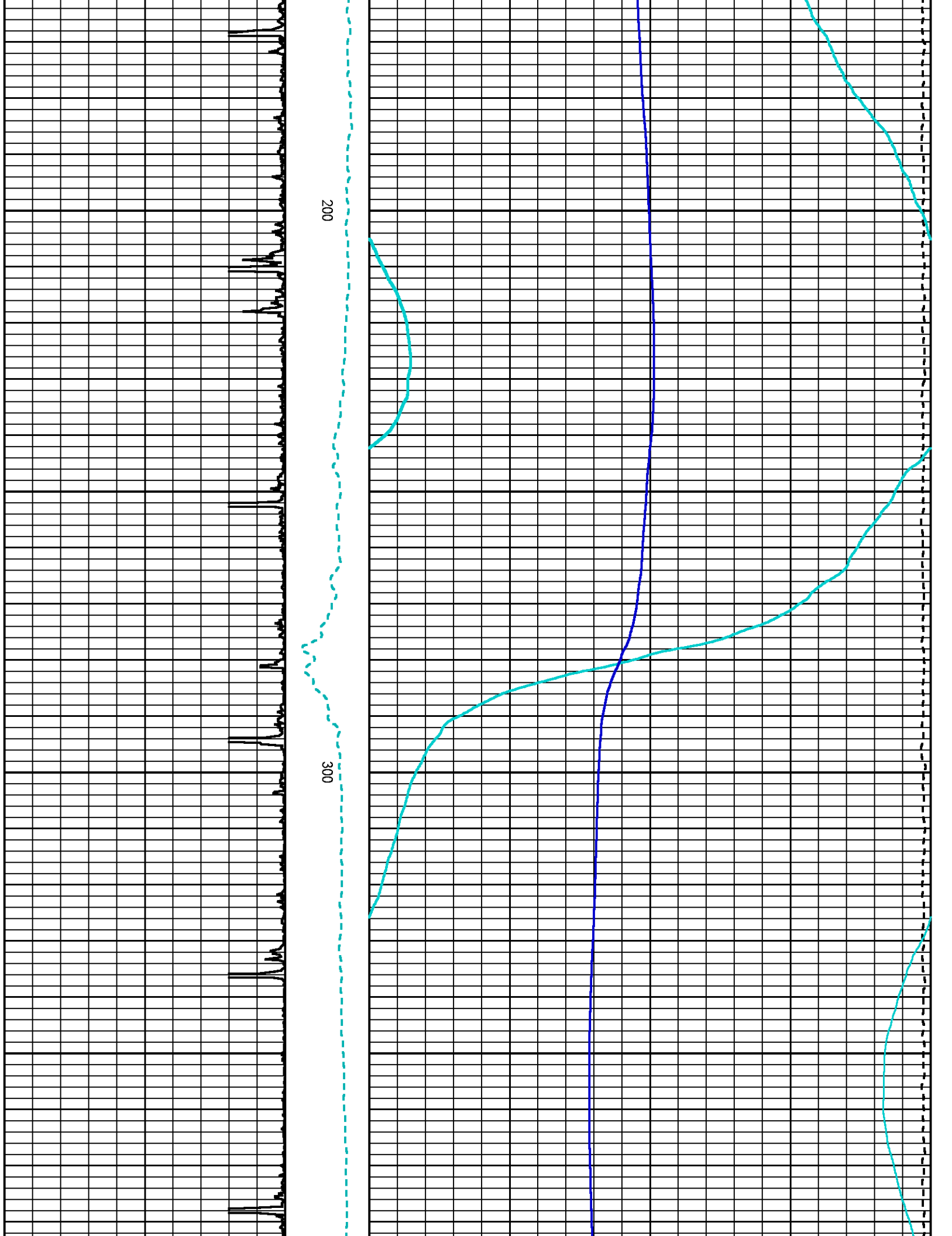
CURVE MEASURE POINT OFFSET

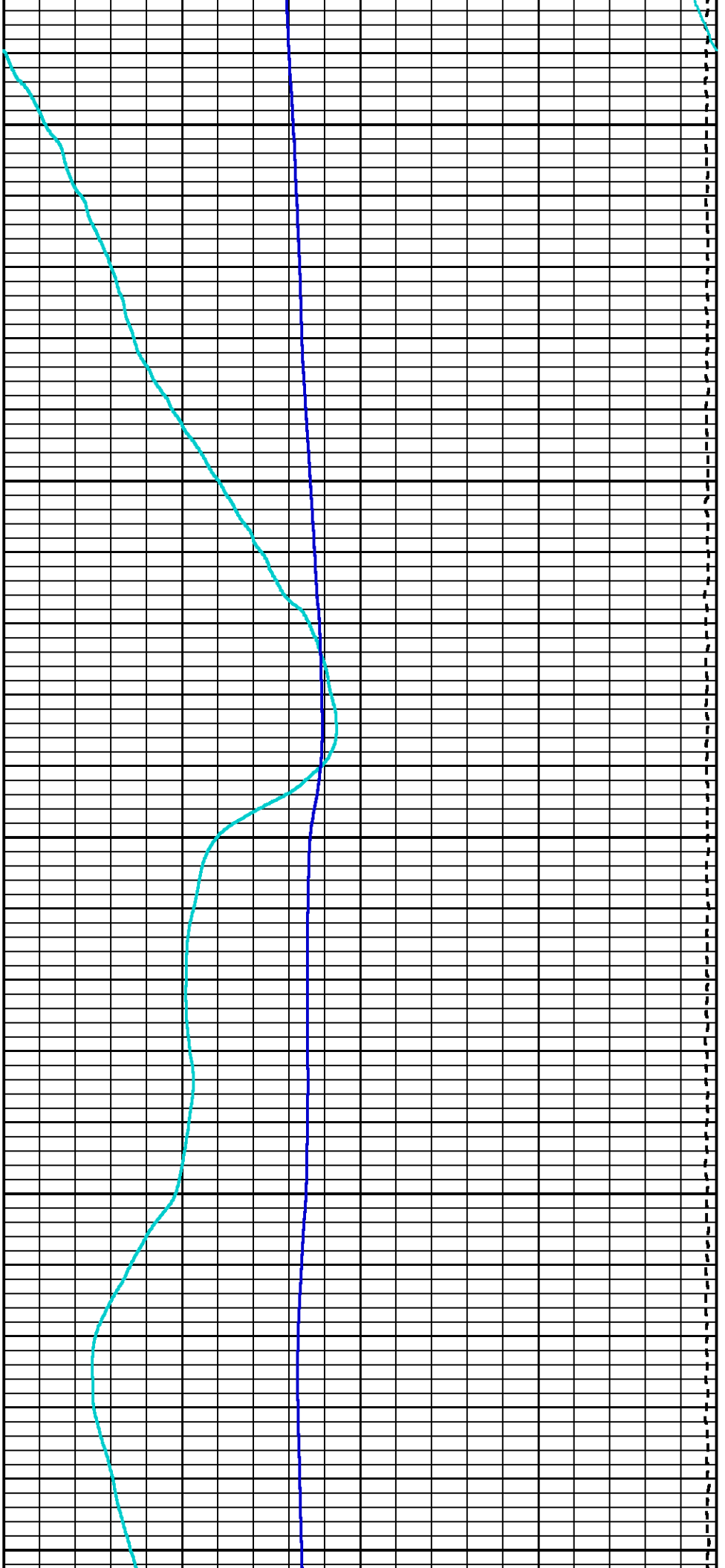
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	-3.50	DTEM	-0.75	TEMP	-0.75	TEN	0.00

Presentation : sys1:TEMP.fvpdf [5"/100' Scale]
Plot Interval : 50 - 1614.25 Feet

Data File 1 : F1 : sys1:/dat1a/md11800/TEMP.xtf
Created On : N/A
Company : HOLLY FRONTIER - NAVAJO
Well : NAVAJO REFINING WDW #4
Field : ARTESIA
File Interval : 28 - 1615.5 Feet
OCT : p353b



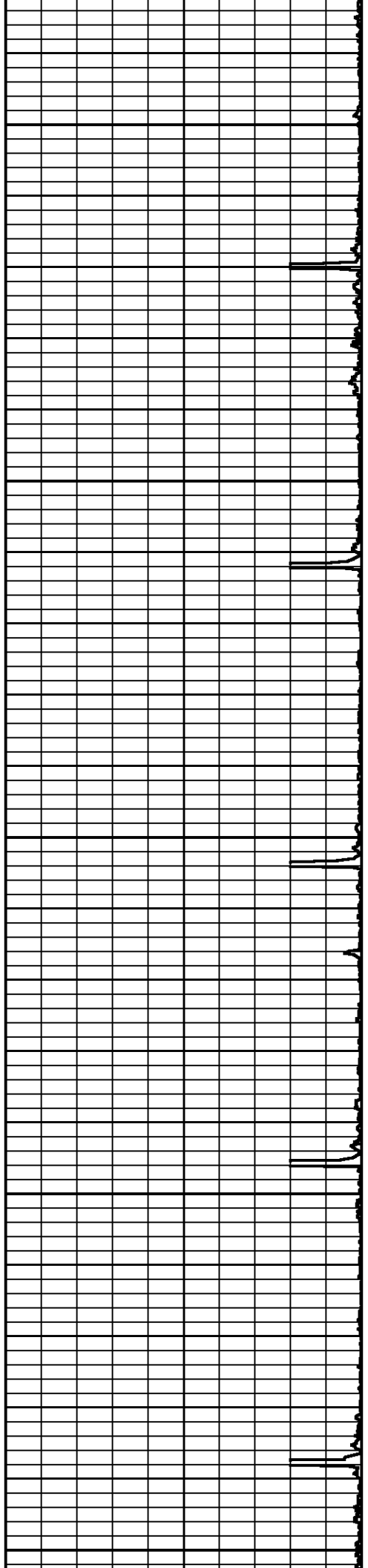


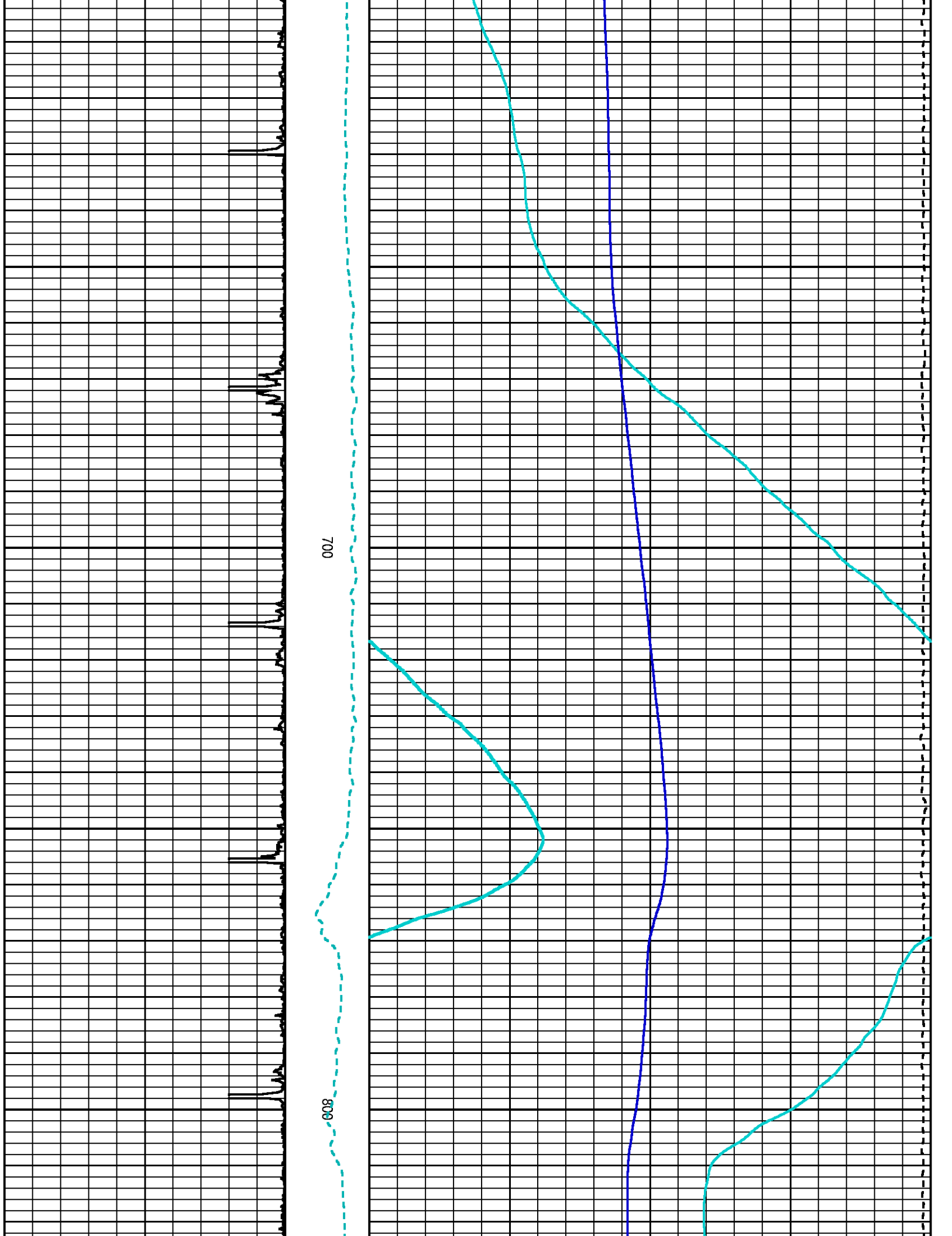


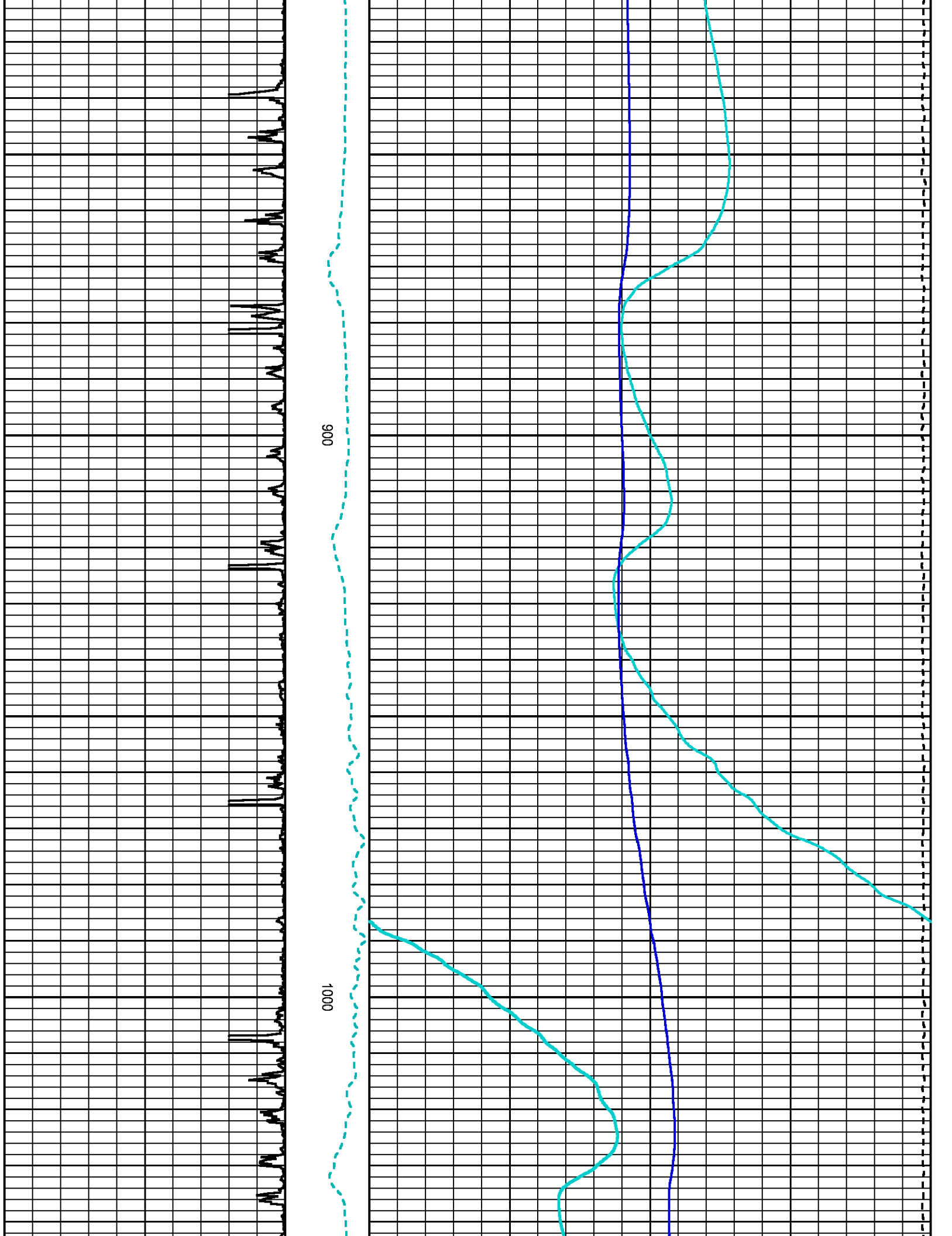
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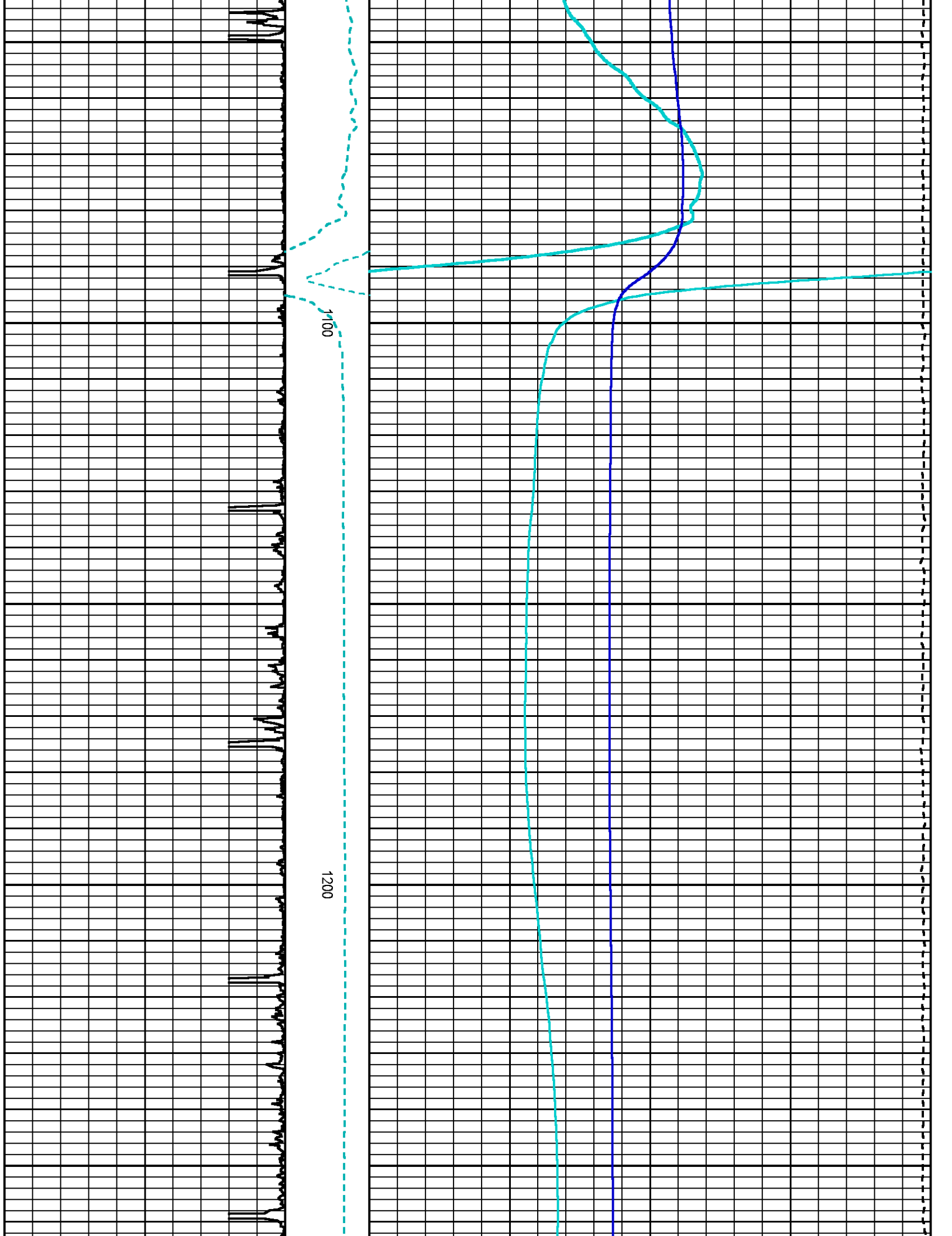
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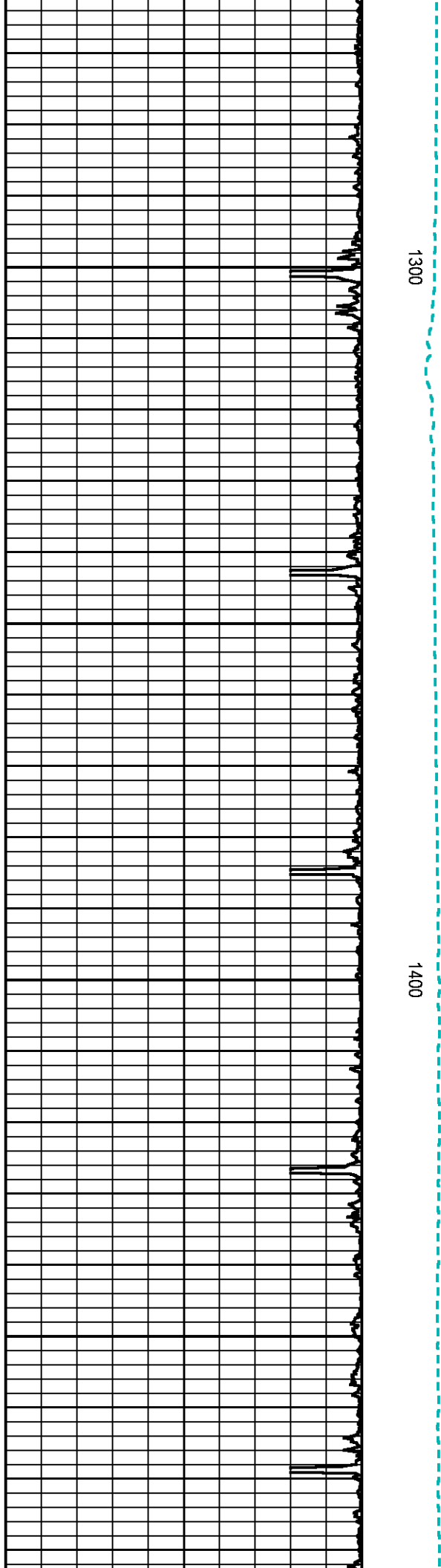
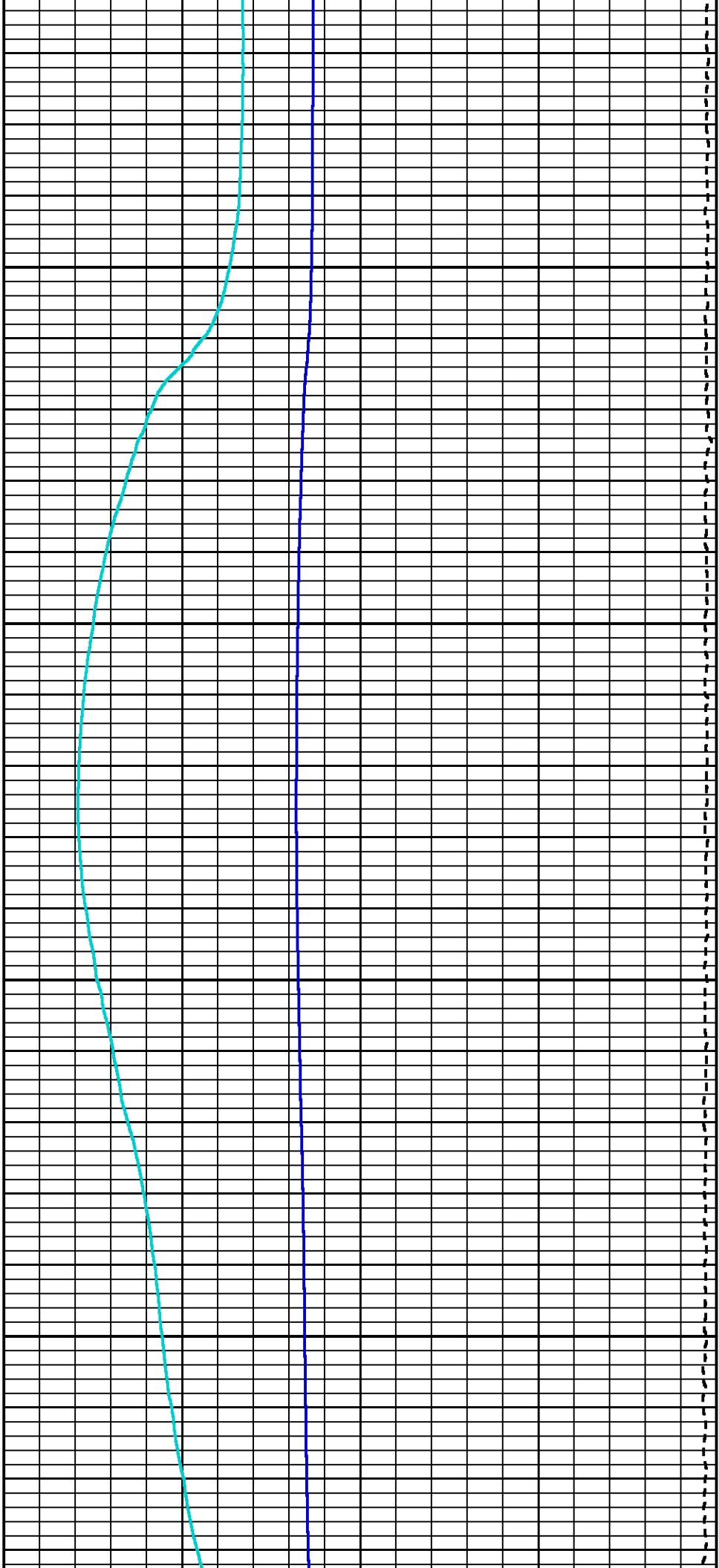
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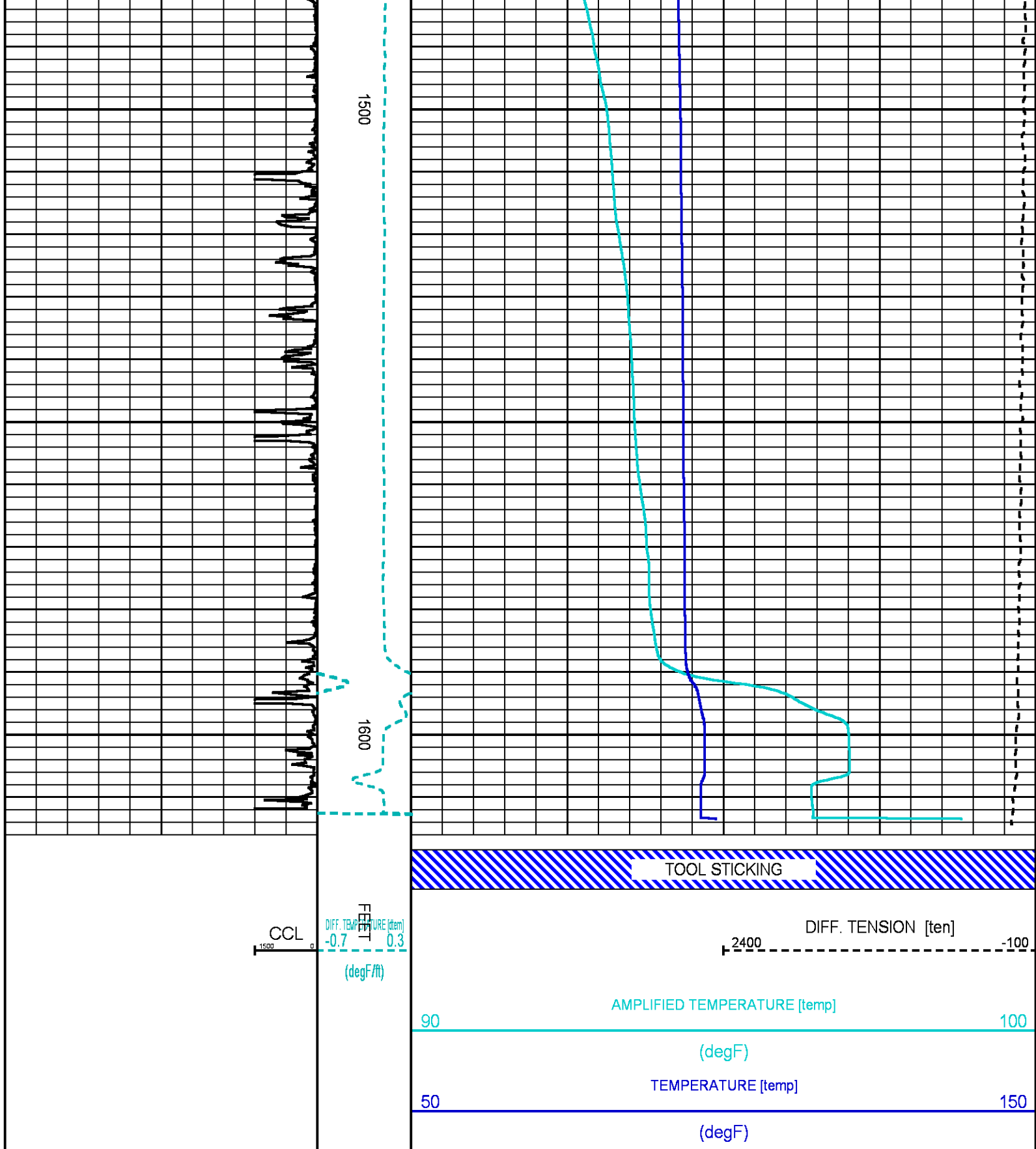












CALIBRATION / VERIFICATION SUMMARY

TEMP PRIMARY CALIBRATION SUMMARY				
TOOL #:		8221XA 095558		
		DATE/TIME PERFORMED: Fri May 11 10:04:11 2018		
		UNIT #: 3882TD HL6685		
	T(0)	T(1)	T(2)	T(3)
Corr Coeff for Temp	1.000000E-01	1.000000E-01	0.000000E+00	0.000000E+00

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		DATE 11-May-2018	