



# Baker Atlas

FILE NO:	COMPANY	NALCOR ENERGY INC.	
API NO:	WELL	NALCOR ET AL FINNEGAN #1	
	FIELD	FINNEGAN	
	PROVINCE	NEWFOUNDLAND AND LABRADOR	
Ver. 3.87	LOCATION:	OTHER SERVICES	
LICENSE: 2010-128-04	LAT 49.920 N LONG 63.330 W	HDIL-GR-CAL XMAC-GR-3CAL STAR-GR-3CAL RCOR / VSP CVL / DZDL-CN-GR	
PERMANENT DATUM	G.L. ELEVATION	ELEVATIONS:	
LOG MEASURED FROM	K.B. 6.25 M ABOVE P.D.	KB 125.00 M	
DRILL MEAS. FROM	KELLY BUSHING	DF GL 118.75 M	

DATE	02-NOV-2010
RUN	1
TRIP	1
SERVICE ORDER	CA208041
DEPTH DRILLER	2285.0 M
DEPTH LOGGER	NOT RECORDED
BOTTOM LOGGED INTERVAL	2062.5 M
TOP LOGGED INTERVAL	761.5 M
CASING DRILLER	339.7 MM
CASING LOGGER	NOT RECORDED
BIT SIZE	311.0 MM
TYPE OF FLUID IN HOLE	GELCHEM
DENSITY	1290.0 G/L
PH	9.0
FLUID LOSS	5.6 ML
SOURCE OF SAMPLE	TOOL MEASURED
RM AT MEAS. TEMP.	0.788 OHMM
RMF AT MEAS. TEMP.	0.669 OHMM
RMC AT MEAS. TEMP.	0.945 OHMM
SOURCE OF RMF	CALCULATED
RM AT BHT	0.662 OHMM
TIME SINCE CIRCULATION	43.0 HOURS
MAX. RECORDED TEMP.	48.8 DEGC
EQUIP. NO.	HL4291
LOCATION	OH NISKU
RECORDED BY	R.PERRY B.BARSS
WITNESSED BY	R.STRICKLAND/N.WATSON

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE 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
444.5 MM	0.0 M	570.0 M
311.0 MM	570.0 M	2285.0 M

## CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
339.7 MM	81.1 KG/M	K-55	0.0 M	570.0 M
244.5 MM				

## REMARKS

RUN 1 TRIP 1 : TIME STOPPED CIRCULATION: 02-NOV-2010 03:00 AM

ALL TESTS WERE NO SEAL OR TIGHT. TESTS AT DEPTH 1525.3 AND 1523.3 WERE DONE WITH THE STRADDLE PACKER FILES 19 AND 20

RIG: STONEHAM 11

CREW:

S.CREWE, B.BARSS, M.BAHAR, J.HENNESSEY, K.HASIUK, J.WOODS, J.JEWEL, R.PERRY.

# EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	DHPA	4430XB	10317581	FREE
1	1	SWIVAL	3944XA	73680	FREE
1	1	TMA	3981XB	10353512	FREE
1	1	COMM	3514XB	364213	FREE
1	1	GR	1329XA	179402	FREE
1	1	HYD SECTION	1970CB	154327	FREE
1	1	ELE SECTION	1970EB	369940	FREE
1	1	TANK SECTIO	1970WA	10037594	FREE
1	1	TANK 1	1976XA	10463677	FREE
1	1	TANK 2	1976XA	10463676	FREE
1	1	TANK 3	1976XA	10463670	FREE
1	1	TANK 4	1976XA	10463671	FREE
1	1	TANK 5	1976XA	10463679	FREE
1	1	SAMPLE VIEW	1970IB	370790	FREE
1	1	PUMP	1970RB	189189	FREE
1	1	PUMP	1970RB	10040381	FREE
1	1	DRAWDOWN	1970BB	183444	FREE
1	1	PACKER	1970MB	370897	FREE
1	1	STRADDLE	1970DB	11668903	FREE
1	1	CROSOVER	1972XA	10046800	FREE
1	1	POWER SUB	1970OB	370797	FREE
1	1	POWER SUB	1970OB	369555	FREE

## INSTRUMENT CONFIGURATION

Source File: /dat1a/pass/nalcor\_run1/rci-tdg

### CABLEHEAD

Diameter : 8.6 cm  
Length : 167.6 cm  
Weight : 10.9 kg  
Series : CABL338  
Mnemonic : CBLH

### SWIVEL

Diameter : 8.6 cm  
Length : 106.7 cm  
Weight : 30.9 kg  
Series : 3944XD

### DOWNHOLE POWER ADAPTER

Diameter : 9.2 cm  
Length : 160.5 cm  
Weight : 39.1 kg  
Series : 4430XB  
Mnemonic : DHPA

### TTRM SUB

Diameter : 9.2 cm  
Length : 116.8 cm  
Weight : 28.2 kg  
Series : 3981XA  
Mnemonic : TTRM

### WTS COMMON REMOTE

Diameter : 9.2 cm  
Length : 194.0 cm  
Weight : 57.3 kg  
Series : 3514XB  
Mnemonic : WTS



39.21 m

CABLEHEAD TOP 38.37 m

TEMP MP 34.11 m  
RM MP 34.04 m

#### DIGITAL SPECTRALOG

Diameter : 9.2 cm  
Length : 222.8 cm  
Weight : 59.1 kg  
Series : 1329XA  
Mnemonic : DSL

GR MP 30.01 m

#### RCI HYDRAULIC POWER SECTION (F. D.)

Diameter : 12.1 cm  
Length : 330.9 cm  
Weight : 113.8 kg  
Series : 1970CB  
Mnemonic : RCI

#### RCI ELECTRONICS SECTION

Diameter : 11.1 cm  
Length : 112.0 cm  
Weight : 45.5 kg  
Series : 1970EB  
Mnemonic : RCI

#### RCI SIX TANK SECTION WA W/TANKS

Diameter : 12.1 cm  
Length : 393.7 cm  
Weight : 180.9 kg  
Series : 1970WA  
Mnemonic : RCI

#### RCI FLUID CHARACTERIZATION WITH FLUOR

Diameter : 12.4 cm  
Length : 309.4 cm  
Weight : 90.9 kg  
Series : 1970IB  
Mnemonic : NIR

#### RCI AUX POWER SECTION

Diameter : 12.4 cm  
Length : 133.8 cm  
Weight : 61.8 kg  
Series : 1970OB  
Mnemonic : RCI

#### RCI SAMPLE PUMPTHRU SECTION (500 CC)

Diameter : 12.1 cm  
Length : 240.4 cm  
Weight : 113.8 kg

Series : 1970RB  
Mnemonic : RCI

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RCI SAMPLE PUMPTHRU SECTION (500 CC)

Diameter : 12.1 cm  
Length : 240.4 cm  
Weight : 113.6 kg  
Series : 1970RB  
Mnemonic : RCI

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RCI DRAW DOWN SECTION (56.7 CC)

Diameter : 12.1 cm  
Length : 233.7 cm  
Weight : 113.6 kg  
Series : 1970BB  
Mnemonic : RCI

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RCI AUX POWER SECTION

Diameter : 12.4 cm  
Length : 133.6 cm  
Weight : 61.8 kg  
Series : 19700B  
Mnemonic : RCI

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RCI SINGLE PACKER SECTION (STD)

Diameter : 12.1 cm  
Length : 290.7 cm  
Weight : 155.5 kg  
Series : 1970MB  
Mnemonic : RCI

PACKER MP 5.72 m

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RCI STRADDLE PACKER, (6.25")

Diameter : 15.9 cm  
Length : 485.0 cm  
Weight : 390.9 kg  
Series : 1970DB  
Mnemonic : RCI

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RCI WTS CROSSOVER SUB

Diameter : 12.1 cm

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BULL PLUG 3 3/8

0.00 m

TOTAL LENGTH: 39.21 m  
TOTAL WEIGHT: 1688.6 kg  
MAX DIAMETER: 15.9 cm

# REALTIME FTA PRESSURE TEST SUMMARY

Depth Range

MD 758.5 m – 2062.5 m

TVD 758.5 m – 2062.5 m

Company: NALCOR ENERGY

Field: FINNEGAN

Date/Time: 11/4/2010 8:12 AM

Well: NALCOR ET AL FINNEGAN 31

FTA Data File: fta.20101103.171046.BAK.bin

Test ID Lvl.I.Tst	File	Depth		Gauge Temp. (degC)	DD Vol. (cm3)	Flow Time (sec)	Minimum Pressure (kPa)	Final BU Pressure (kPa)	DD Mobility (mD/cP)	Hydro. Before (kPa)	Test Comment
		MD (m)	TVD (m)								
01.1.01	aBB02	1343.0	1343.0	42.6	N/A	N/A	N/A	N/A	N/A	17086.81	No Seal
02.1.01	aBB03	1345.0	1345.0	42.7	N/A	N/A	N/A	N/A	N/A	17120.84	No Seal
03.1.01	aBB04	1347.0	1347.0	42.6	N/A	N/A	N/A	N/A	N/A	17150.80	No Seal
04.1.01	aBB05	1351.0	1351.0	42.4	N/A	N/A	N/A	N/A	N/A	17210.70	No Seal
05.1.01	aBB06	1390.5	1390.5	42.4	N/A	N/A	N/A	N/A	N/A	17724.44	Tight Test
06.1.01	aBB07	1345.4	1345.4	42.6	N/A	N/A	N/A	N/A	N/A	17119.26	No Seal
07.1.01	aBB08	1343.5	1343.5	42.6	N/A	N/A	N/A	N/A	N/A	17082.78	No Seal
08.1.01	aBB09	1342.5	1342.5	42.6	N/A	N/A	N/A	N/A	N/A	17063.11	No Seal
10.1.01	aBB11	2062.5	2062.5	47.8	N/A	N/A	N/A	N/A	N/A	26209.39	No Seal
11.1.01	aBB12	2062.0	2062.0	48.2	N/A	N/A	N/A	N/A	N/A	26205.80	No Seal
12.1.01	aBB13	2058.5	2058.5	48.4	N/A	N/A	N/A	N/A	N/A	26143.71	No Seal
13.1.01	aBB14	2058.0	2058.0	48.6	N/A	N/A	N/A	N/A	N/A	26137.82	No Seal
14.1.01	aBB15	2057.5	2057.5	48.7	N/A	N/A	N/A	N/A	N/A	26128.86	No Seal
15.1.01	aBB16	1967.5	1967.5	48.8	N/A	N/A	N/A	N/A	N/A	25009.60	No Seal
16.1.01	aBB17	1525.5	1525.5	46.6	N/A	N/A	N/A	N/A	N/A	19411.42	No Seal
17.1.01	aBB18	1525.2	1525.2	46.0	N/A	N/A	N/A	N/A	N/A	19404.60	No Seal
20.1.01	aBB21	1303.0	1303.0	43.6	N/A	N/A	N/A	N/A	N/A	16590.76	No Seal
21.1.01	aBB22	1149.5	1149.5	42.7	N/A	N/A	N/A	N/A	N/A	14645.48	No Seal
22.1.01	aBB23	1150.5	1150.5	42.4	N/A	N/A	N/A	N/A	N/A	14669.46	No Seal
23.1.01	aBB24	989.0	989.0	41.2	N/A	N/A	N/A	N/A	N/A	12603.41	No Seal
24.1.01	aBB25	987.5	987.5	40.8	N/A	N/A	N/A	N/A	N/A	12581.32	No Seal
25.1.02	aBB26	796.0	796.0	39.5	4.7	0.2	7156.64	8039.26	29.2	10142.05	Tight Test
26.1.01	aBB27	789.0	789.0	38.9	N/A	N/A	N/A	N/A	N/A	10051.01	No Seal
27.1.01	aBB28	761.5	761.5	38.7	N/A	N/A	N/A	N/A	N/A	9703.14	No Seal
28.1.01	aBB29	758.5	758.5	38.3	N/A	N/A	N/A	N/A	N/A	9661.98	No Seal

## Summary Notes:

MD – Measured Depth

TVD – True Vertical Depth

A) Permeability can be calculated by multiplying mobility with fluid viscosity.

B) Drawdown Rate is calculated using maximum piston rate during drawdown.

C) Gauge temperature is the internal of the quartz gauge which is not intended to represent fluid or sample line fluid temperatures.

Pressure Test 1390.5 M

FILE: /data/pass/nalcor\_run1/m800aBB06.prm  
LOGGING MODE: TIME  
START TIME: 0.000 s      END TIME: 551.875 s

## SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (s)	
LMP	FILTER ( )	medium(1)		START	END
OD PRES	FILTER ( )	medium(1)		"	"
RTD	FILTER ( )	medium(1)		"	"

## RCI PROCESSING

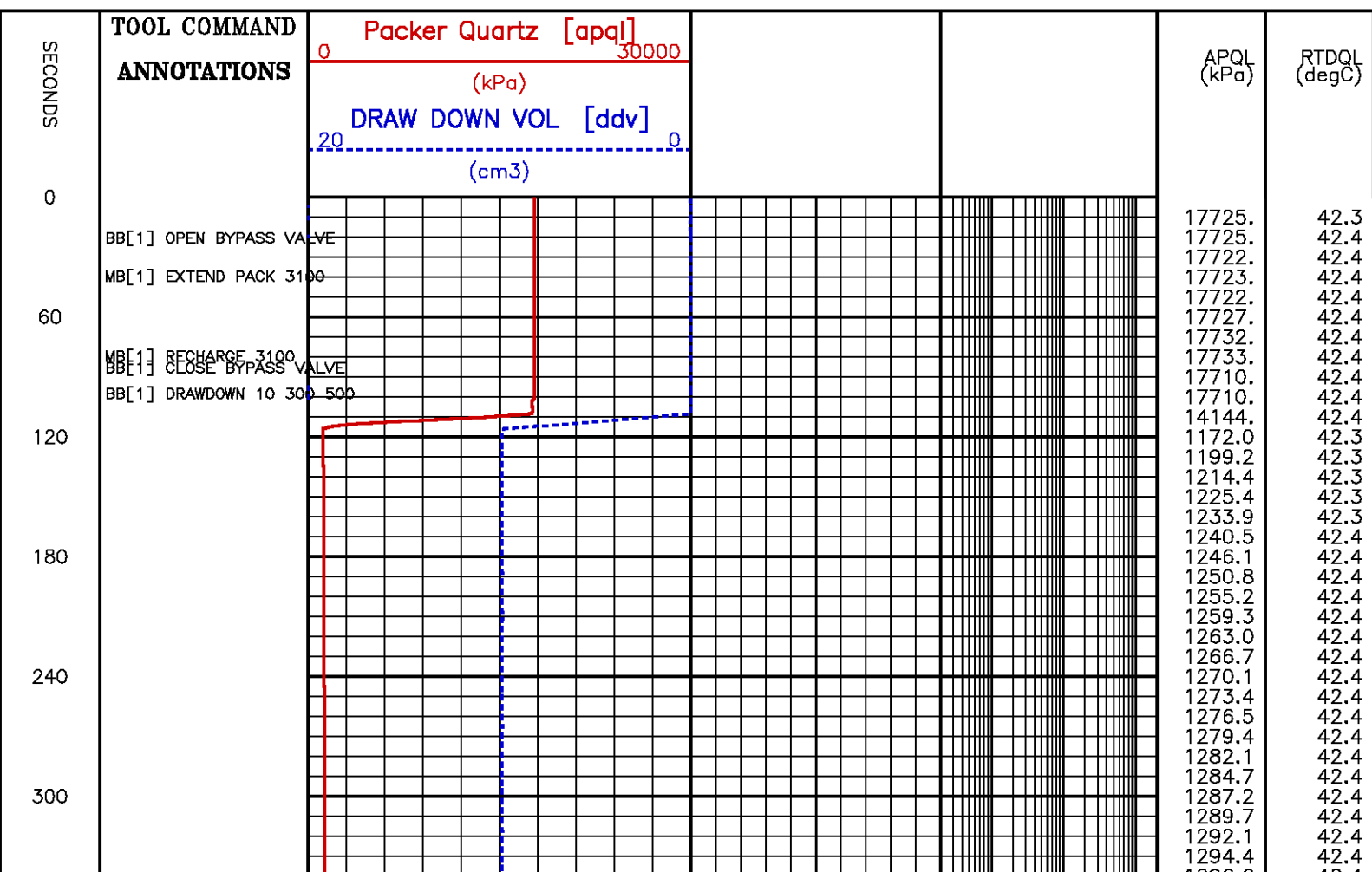
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (s)	
RCI VOLUME	Isolated VOL	51.0(56/36.2cc pump)		START	END
	Piston Area	445.8 (56 cc pump)		"	"
RCI DEPTH CORRECTED PRESSURE	Deviation Source	Use 4401		"	"
FTA INPUT	FTA Pressure Src (1)	Use 1970LB(MB)		"	"

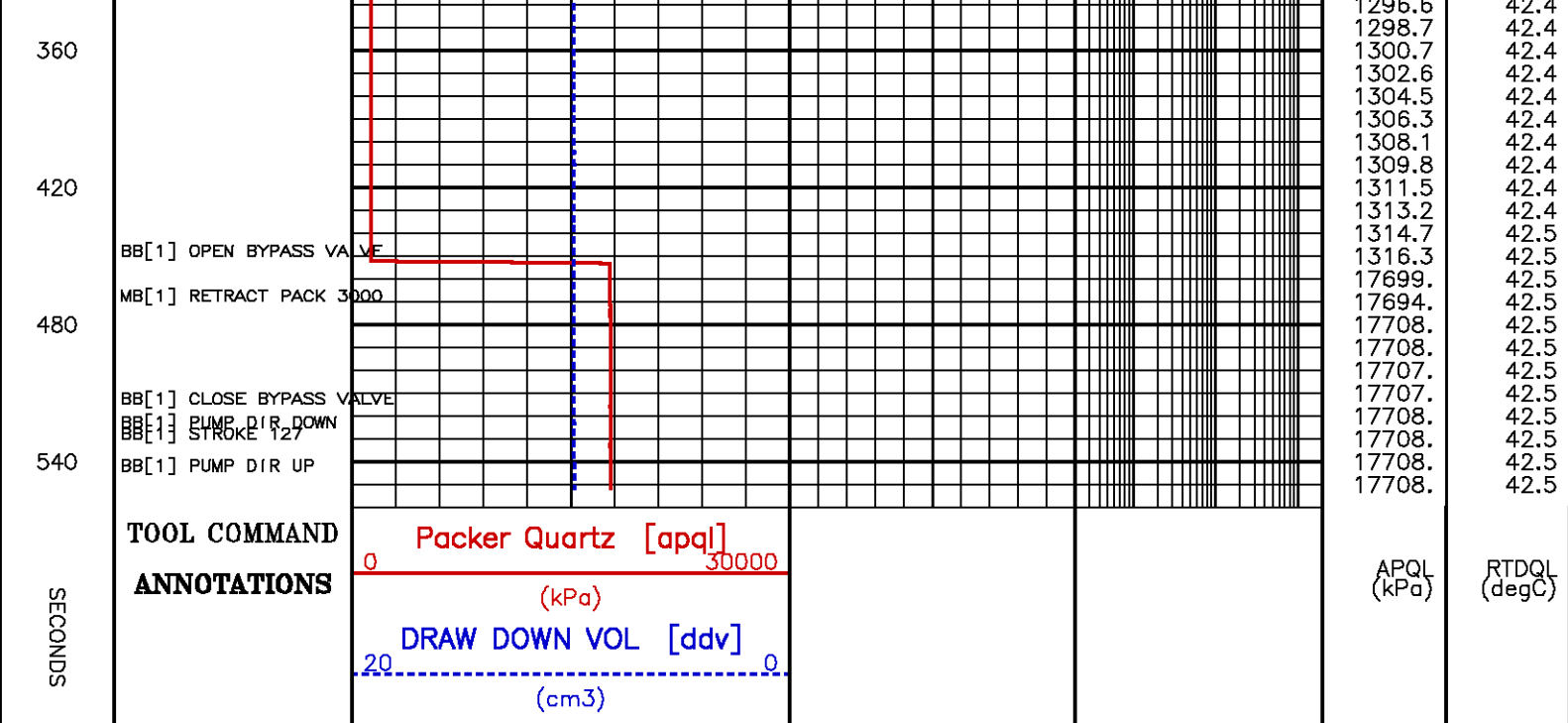
## CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:APQL	Nov 3 19:39:23 2010	1970LB QUARTZDYNE GAUGE PRESSURE
F1:DDV	Nov 3 19:39:23 2010	DRAWDOWN VOLUME
F1:RTDQL	Nov 3 19:39:23 2010	1970LA QUARTZDYNE PRESSURE GAUGE TEMPERATURE

Presentation : cpu1:/data/pass/nalcor\_run1/rci-13905.pdf [1:1000 Scale]  
Plot Interval : 0 - 552 Seconds

Data File 1 : F1 : cpu1:/data/pass/nalcor\_run1/m800aBB06.aff  
Created On : Nov 3 19:39:23 2010  
Company : NALCOR ENERGY  
Well : NALCOR ET AL FINNEGAN 31  
Field : FINNEGAN  
File Interval : 0 - 552 Seconds @ 1390.52 Meters  
Oct : m800aBB





## Straddle Packer Test 1525.3 M

ECLIPS 6.1i Aug 06, 2010  
Patches: 1

Thu Nov 4 08:45:31 2010

Pcrplt /main/62

Cplot

Pdf\_Cpp /main/16

Fileview 5.50

### PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/nalcor\_run1/m800aBB19.prm  
LOGGING MODE: TIME  
START TIME: 217.875 s END TIME: 9218.500 s

#### SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (s)	
LMP	FILTER ()	medium(1)		START	END
QD PRES	FILTER ()	medium(1)		"	"
RTD	FILTER ()	medium(1)		"	"

#### RCI PROCESSING

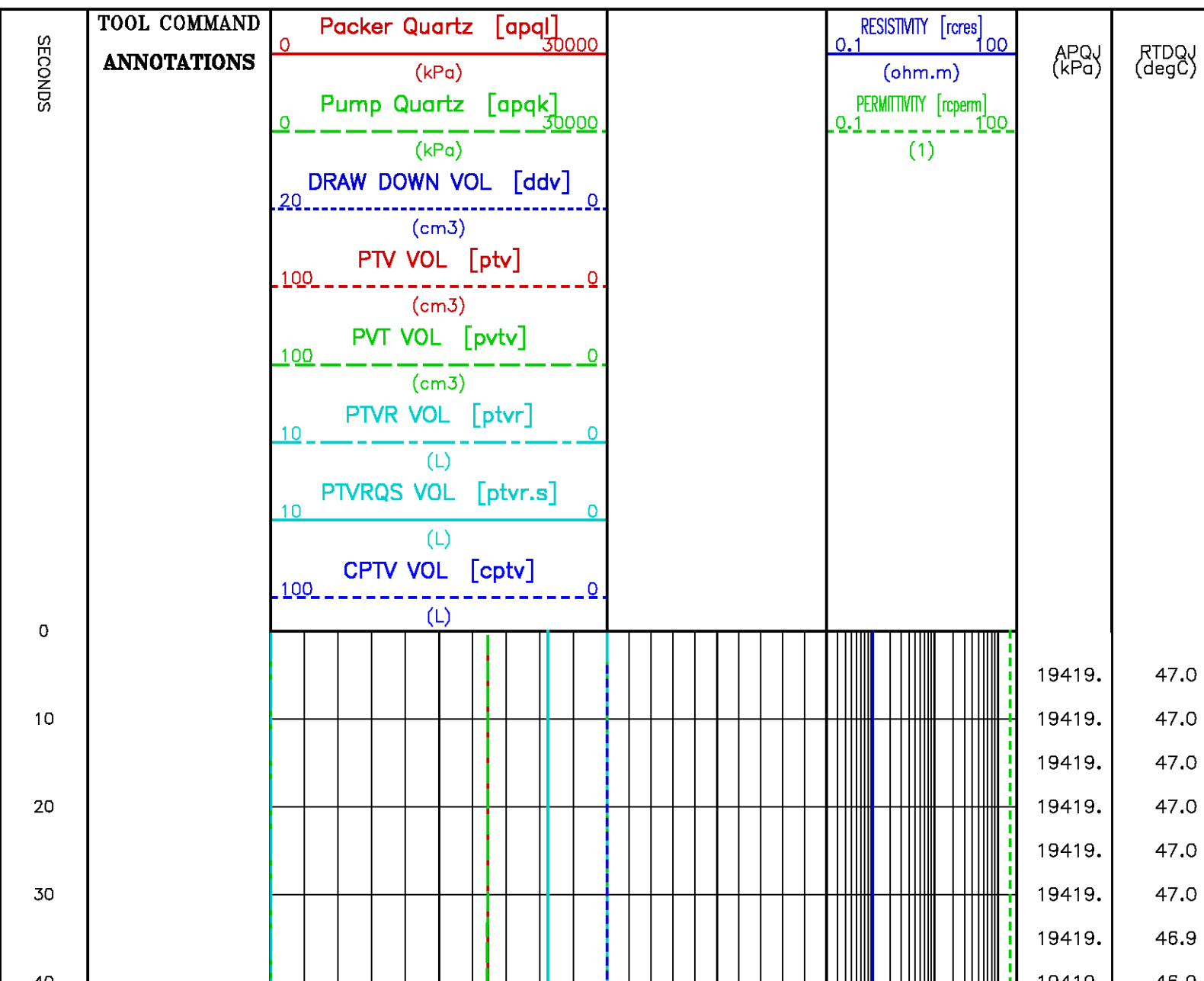
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (s)	
1970DB SPEP CORRECTION	Transducer Type	2.5 kpsi		START	END
RCI HARDWARE SELECT	Flowline Sensor (1970MB 1)	Auto		"	"
RCI PERMEABILITY	dP/dT Target	0.05	psi/min	"	"
RCI VOLUME	Isolated VOL	51.0(56/36.2cc pump)		"	"
	Piston Area	445.8 (56 cc pump)		"	"
RCI DEPTH CORRECTED PRESSURE	Deviation Source	Use 4401		"	"
	User Input Deviation	0.00	deg	"	"
FTA INPUT	FTA Pressure Src (1)	Use 1970LB(MB)		"	"
	cpvtf from ptvr	ON		"	"
	cpvtf from ptvrs	ON		"	"
	cpvtf from pti	ON		"	"
	cpvts from ptvr	ON		"	"
	cpvts from ptvrs	ON		"	"
	cpvts from pti	ON		"	"

## CURVE DESCRIPTION REPORT

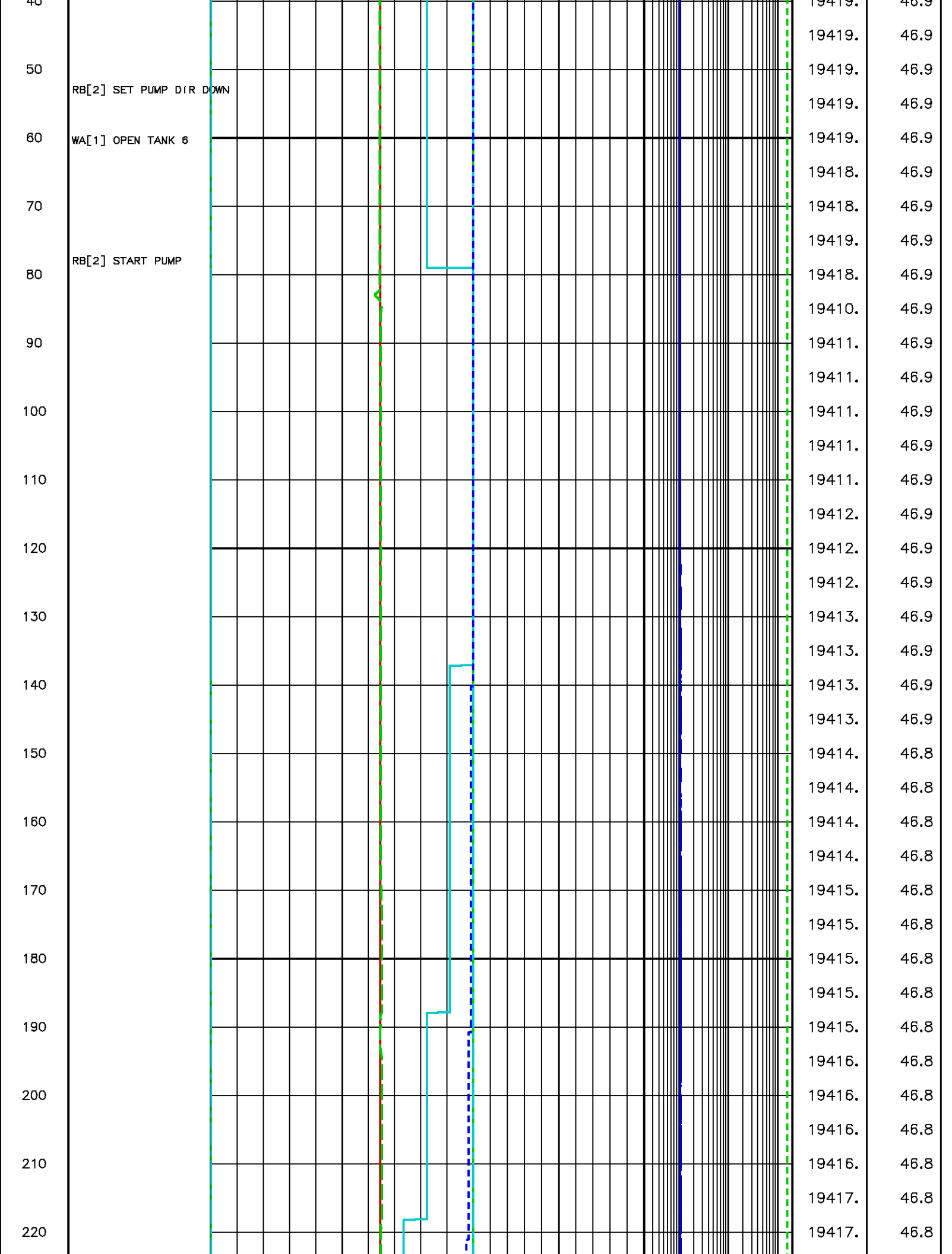
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:APQJ	Nov 3 21:43:10 2010	1970JB QUARTZDYNE GAUGE PRESSURE
F1:APQK	Nov 3 21:43:10 2010	1970KB QUARTZDYNE GAUGE PRESSURE
F1:APQL	Nov 3 21:43:10 2010	1970LB QUARTZDYNE GAUGE PRESSURE
F1:CPTV	Nov 3 21:43:10 2010	CUMULATIVE PUMP-THROUGH VOLUME
F1:DDV	Nov 3 21:43:10 2010	DRAWDOWN VOLUME
F1:PTV	Nov 3 21:43:10 2010	PUMP THROUGH VOLUME FOR RCI
F1:PTVR	Nov 3 21:43:10 2010	1970RB PUMPED VOLUME
F1:PVTV	Nov 3 21:43:10 2010	PVT VOLUME
F1:RCPERM	Nov 3 21:43:10 2010	DIELECTRIC CONSTANT OF FLUID IN R/C SENSOR
F1:RCRES	Nov 3 21:43:10 2010	RESISTIVITY OF FLUID IN R/C SENSOR
F1:RTDQJ	Nov 3 21:43:10 2010	1970JB QUARTZDYNE PRESSURE GAUGE TEMPERATURE

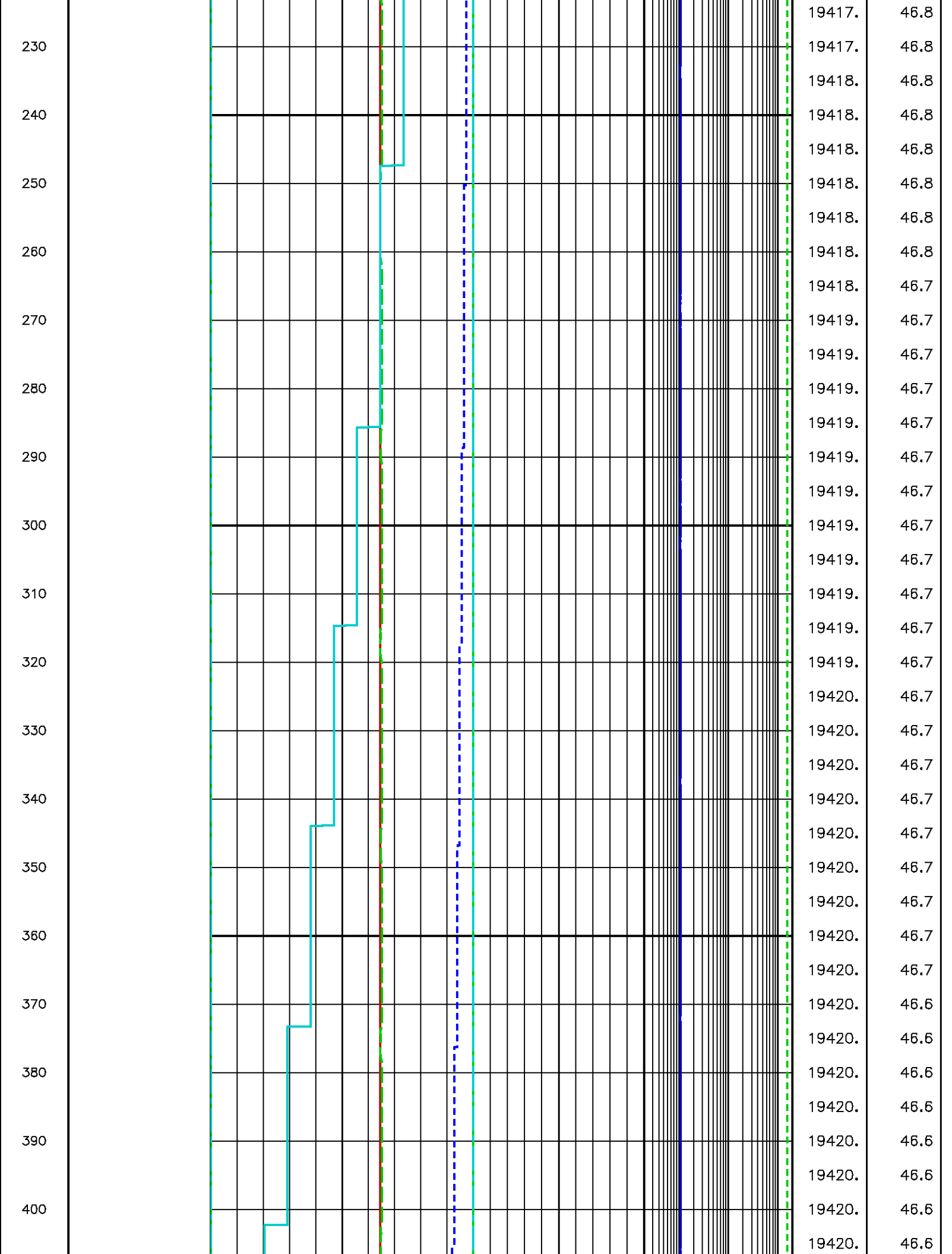
Presentation : cpu1:/data/pass/nalcor\_run1/rci-15253sp.pdf [1:200 Scale]  
 Plot Interval : 0 - 9218.75 Seconds

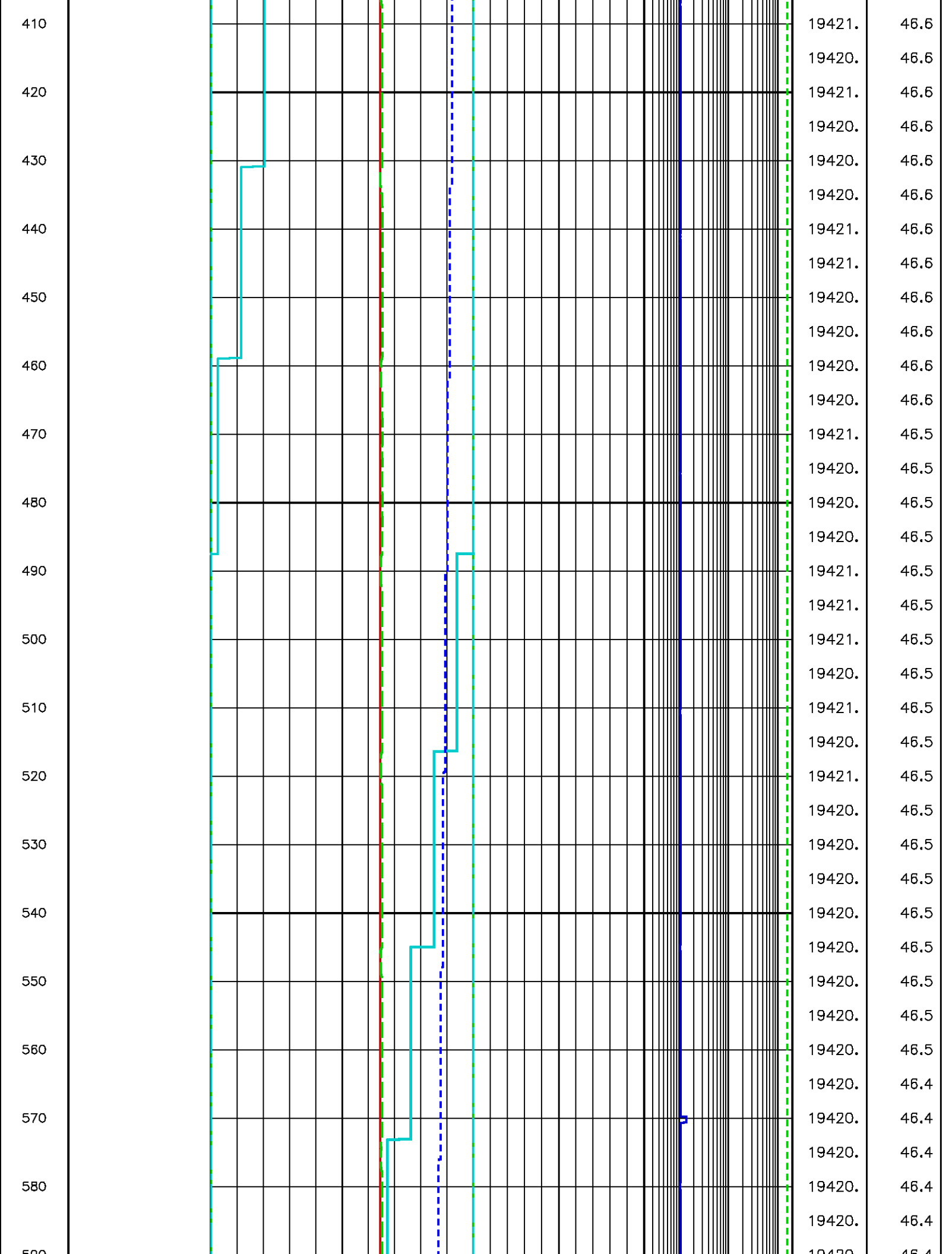
Data File 1 : F1 : cpu1:/data/pass/nalcor\_run1/m800aBB19.aff  
 Created On : Nov 3 21:43:10 2010  
 Company : NALCOR ENERGY  
 Well : NALCOR ET AL FINNEGAN 31  
 Field : FINNEGAN  
 File Interval : 0 - 9218.75 Seconds @ 1523.25 Meters  
 Oct : m800aBB

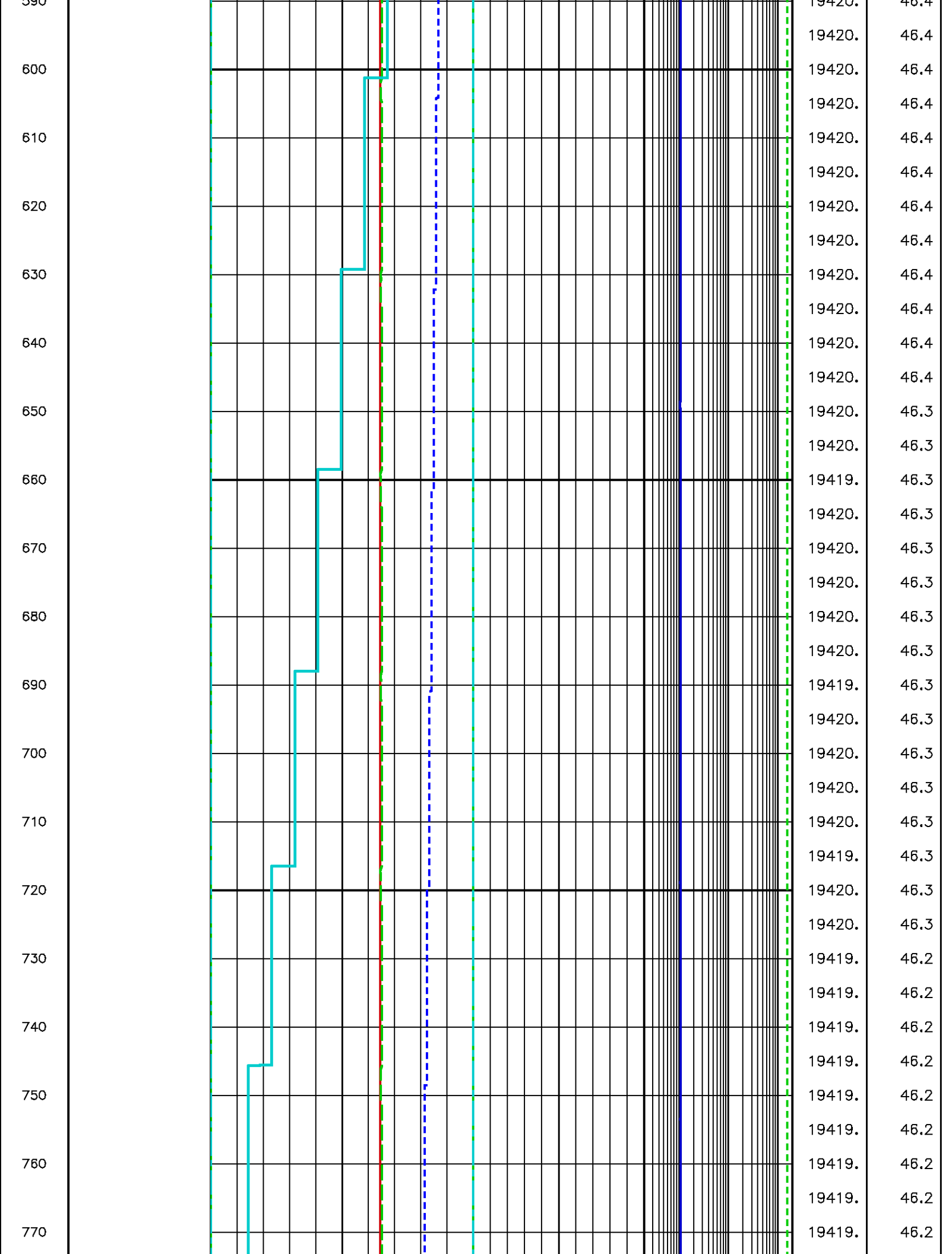


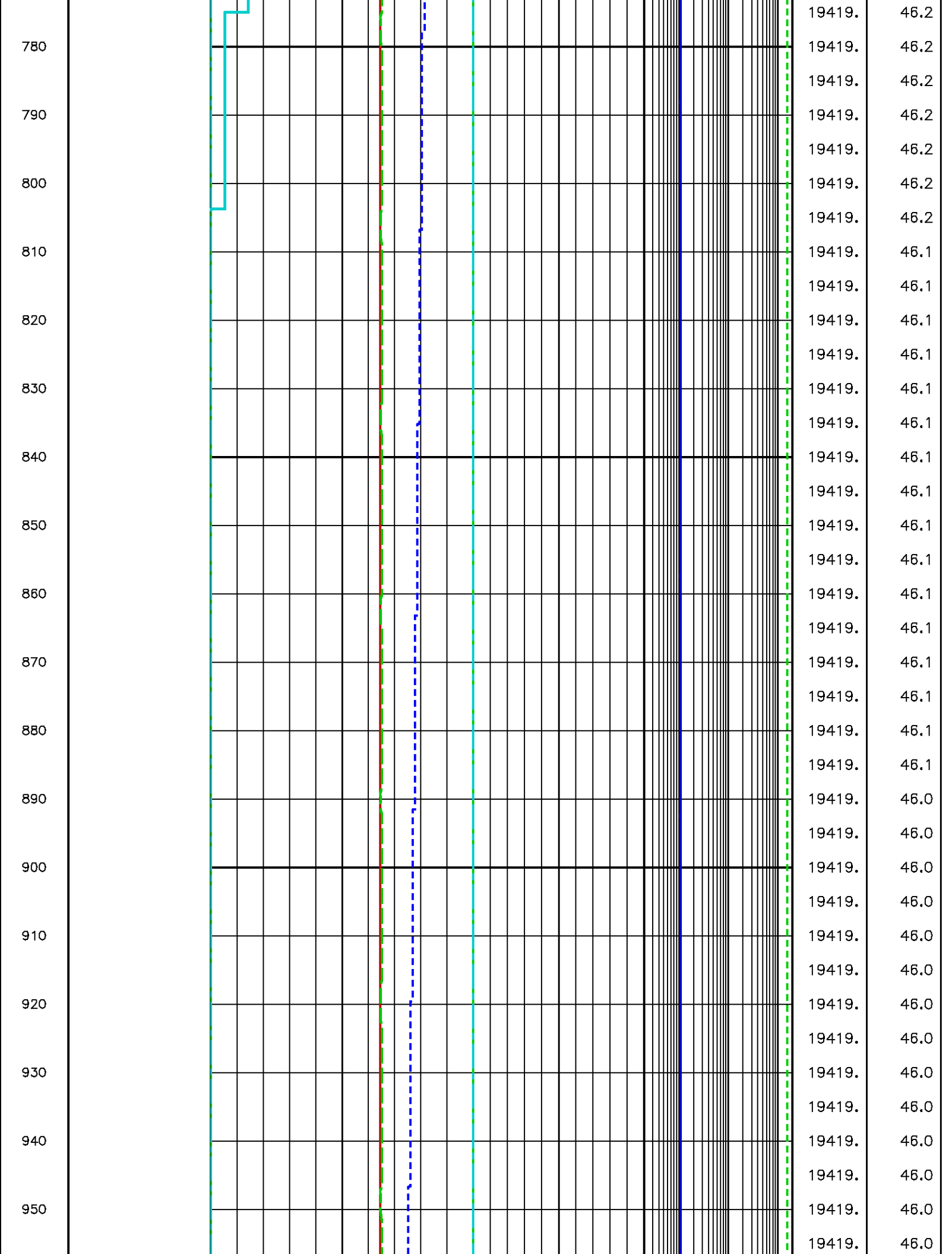


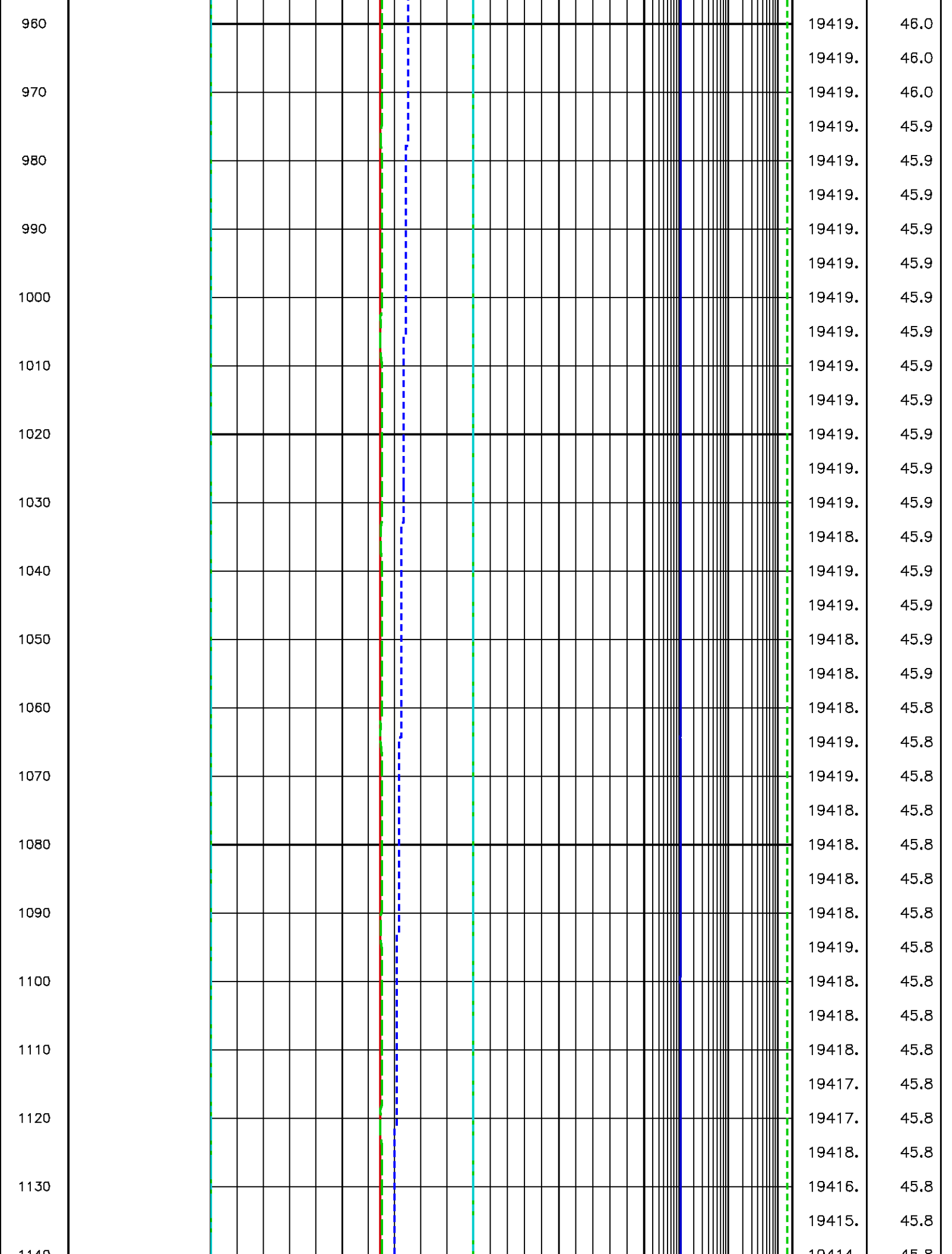


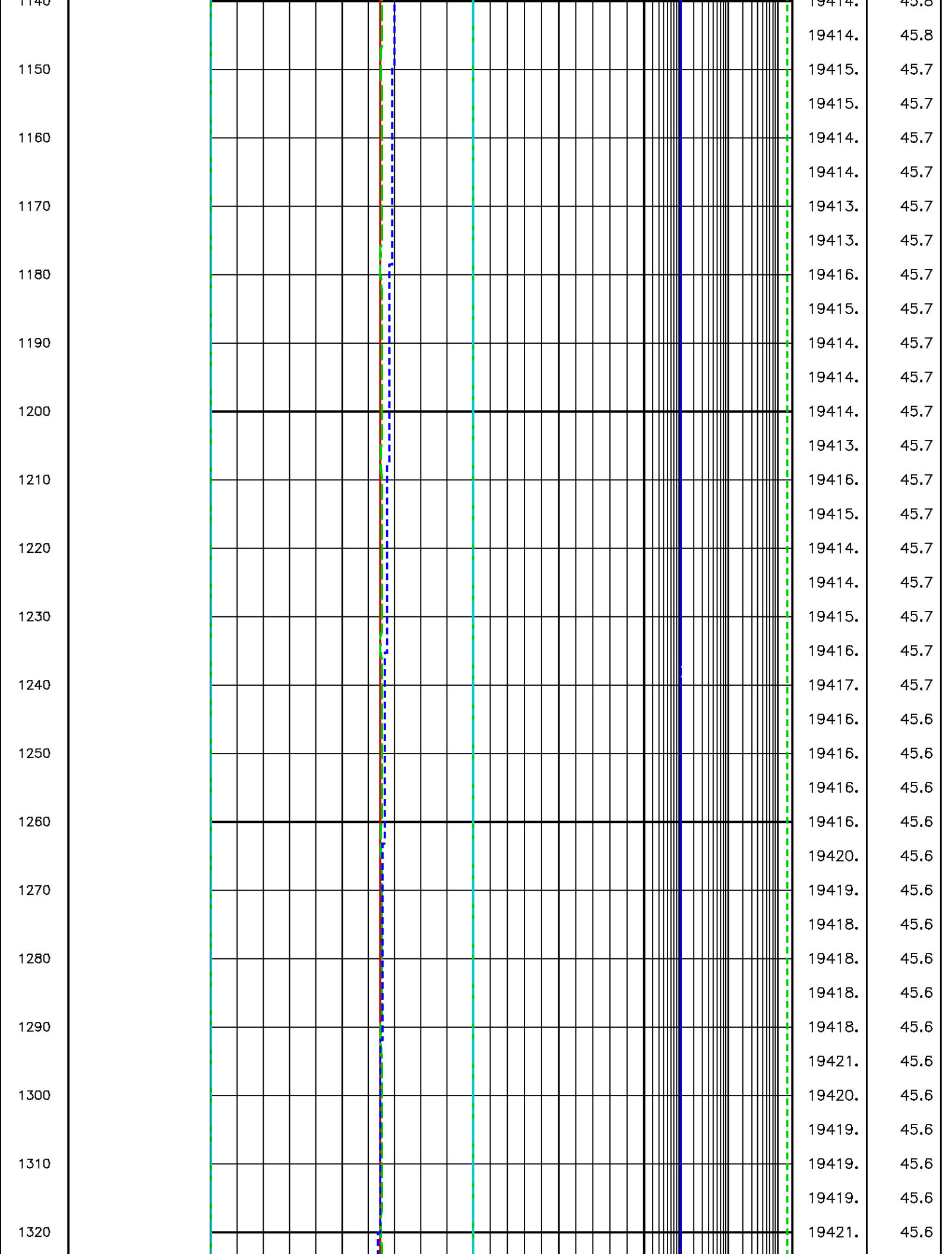


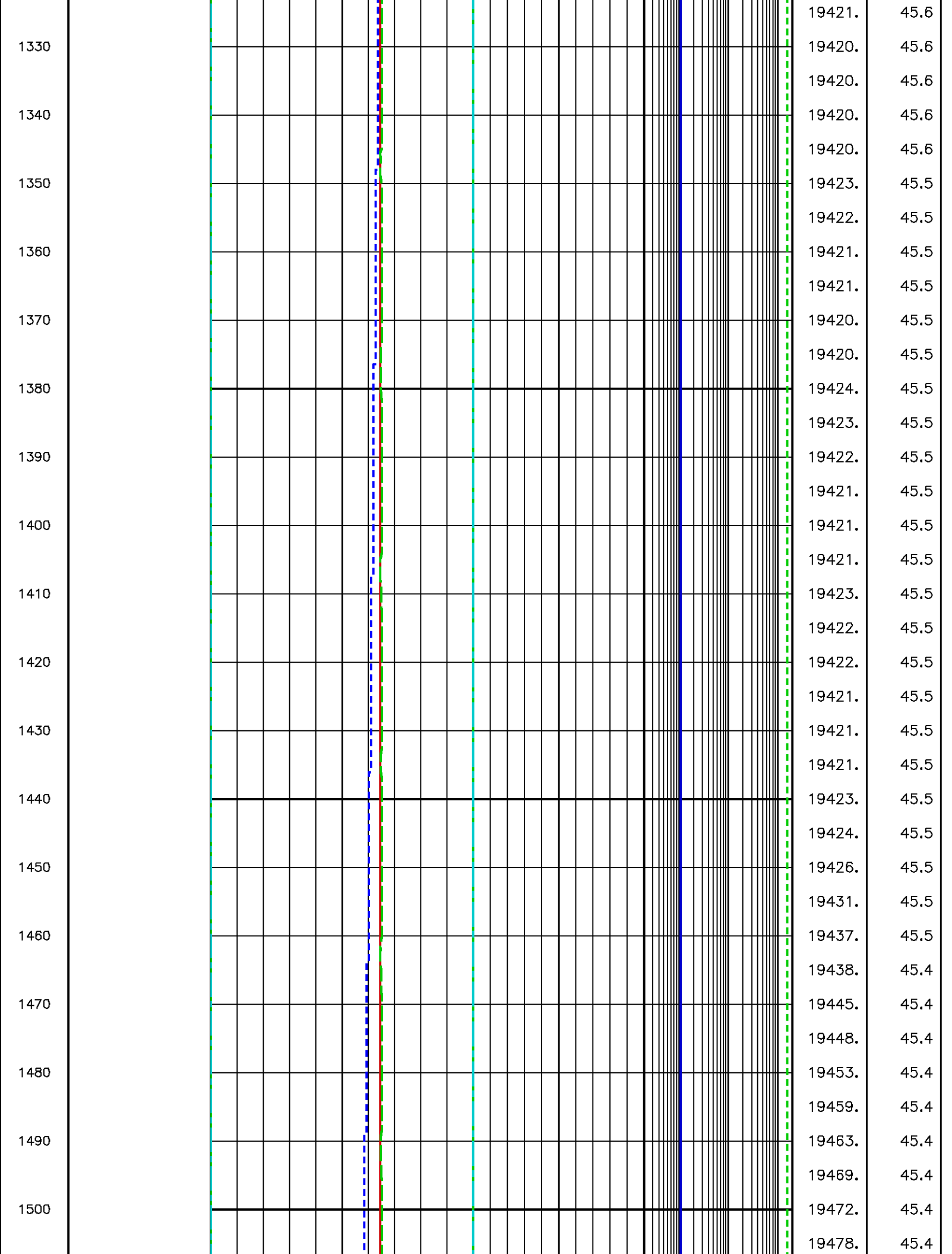




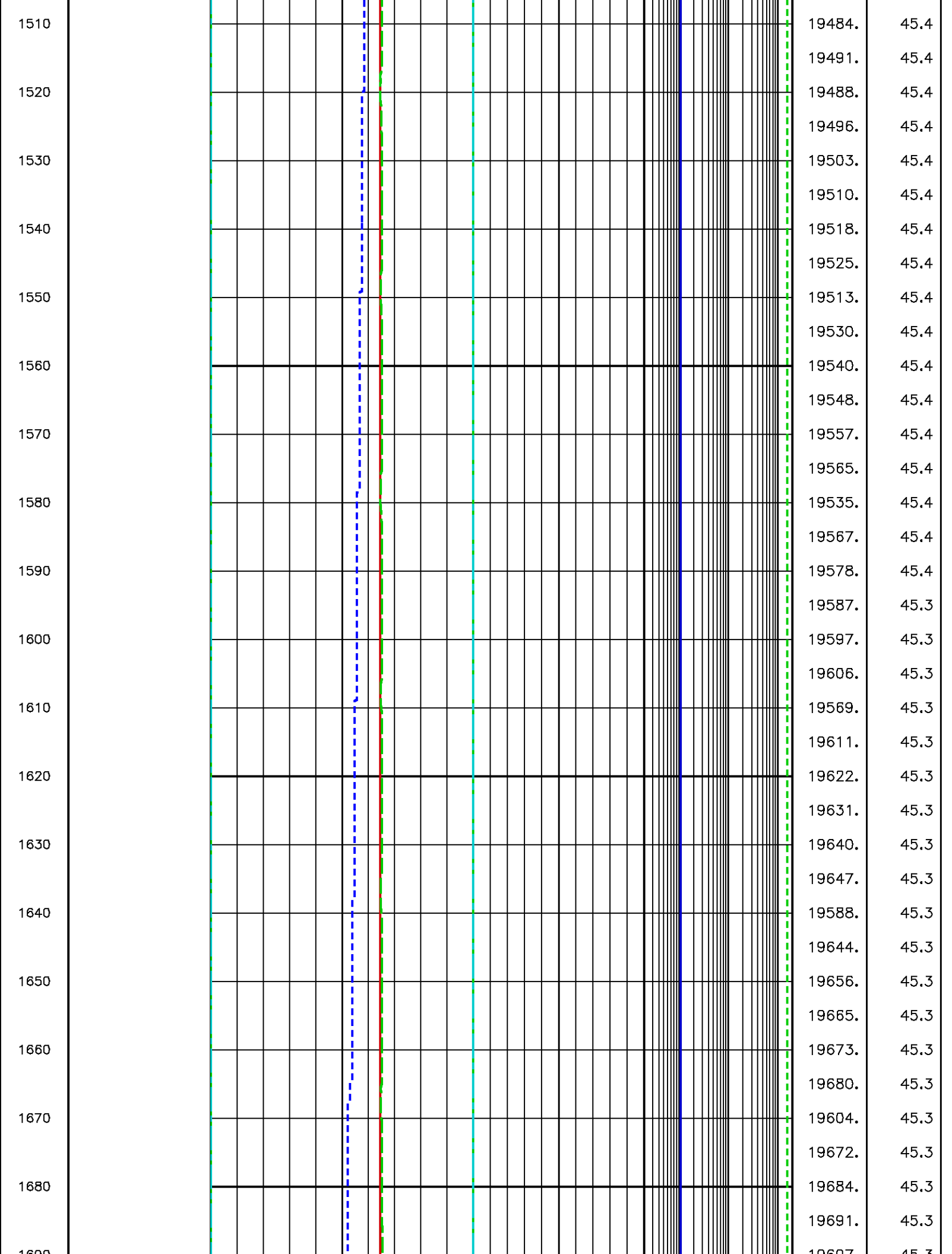


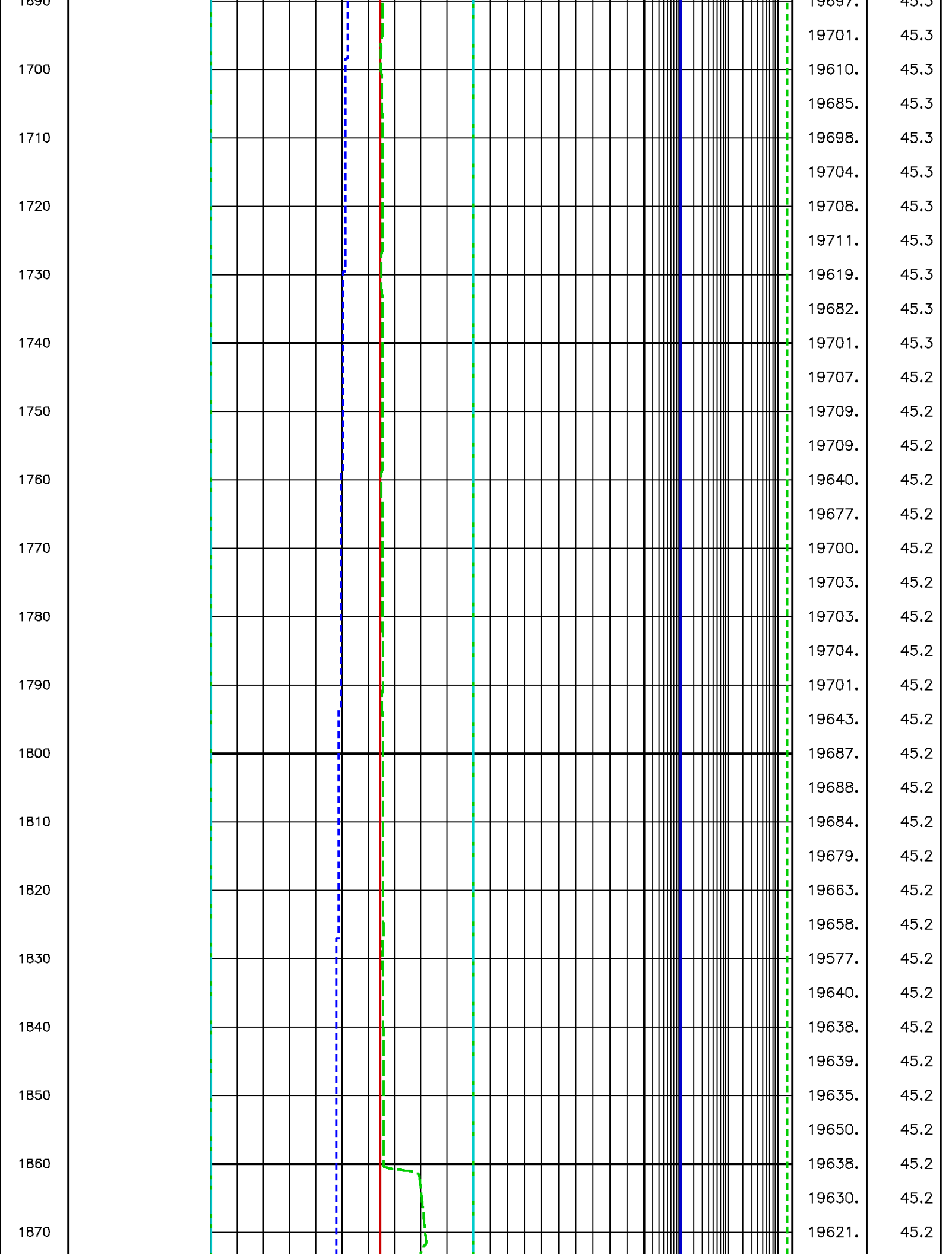


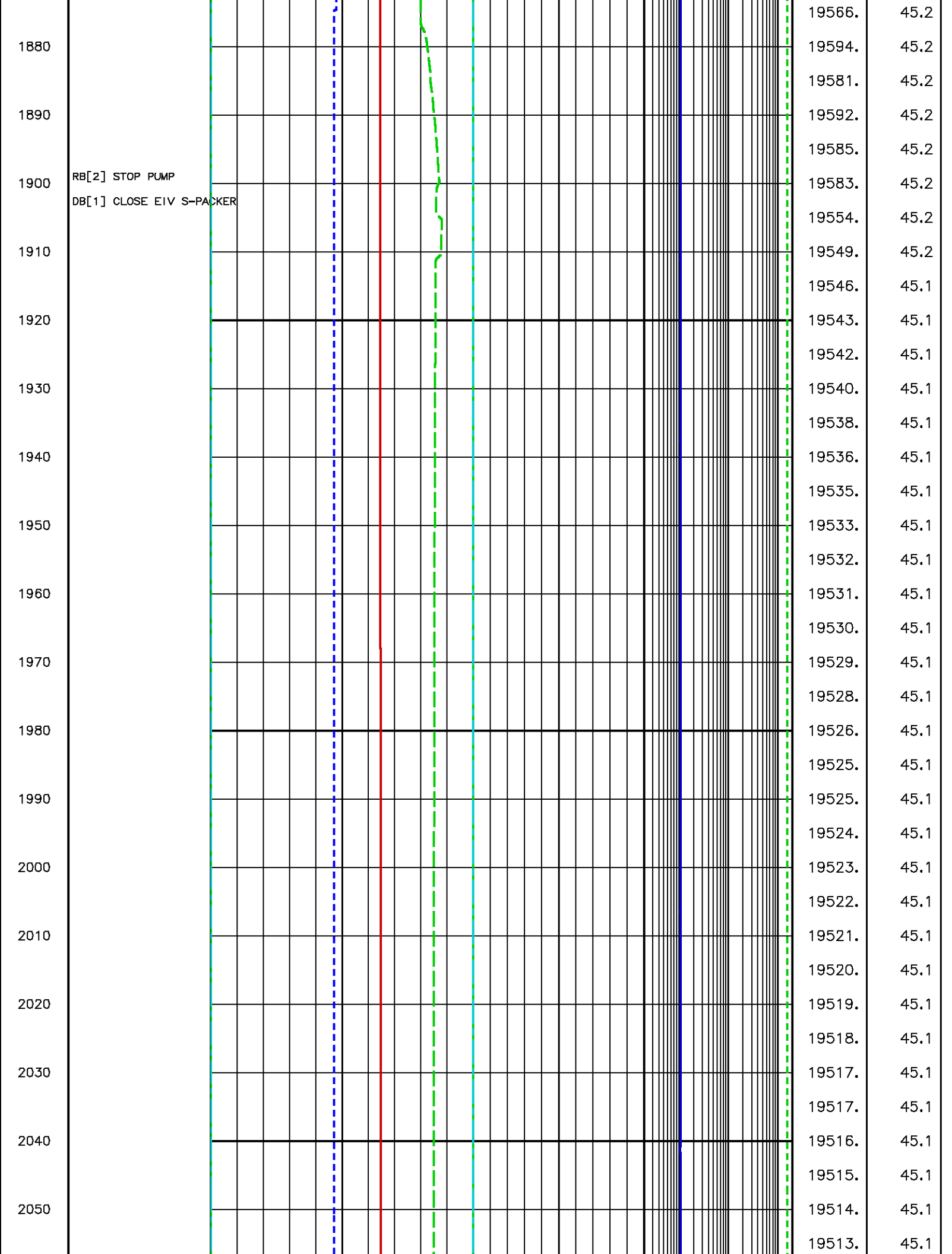


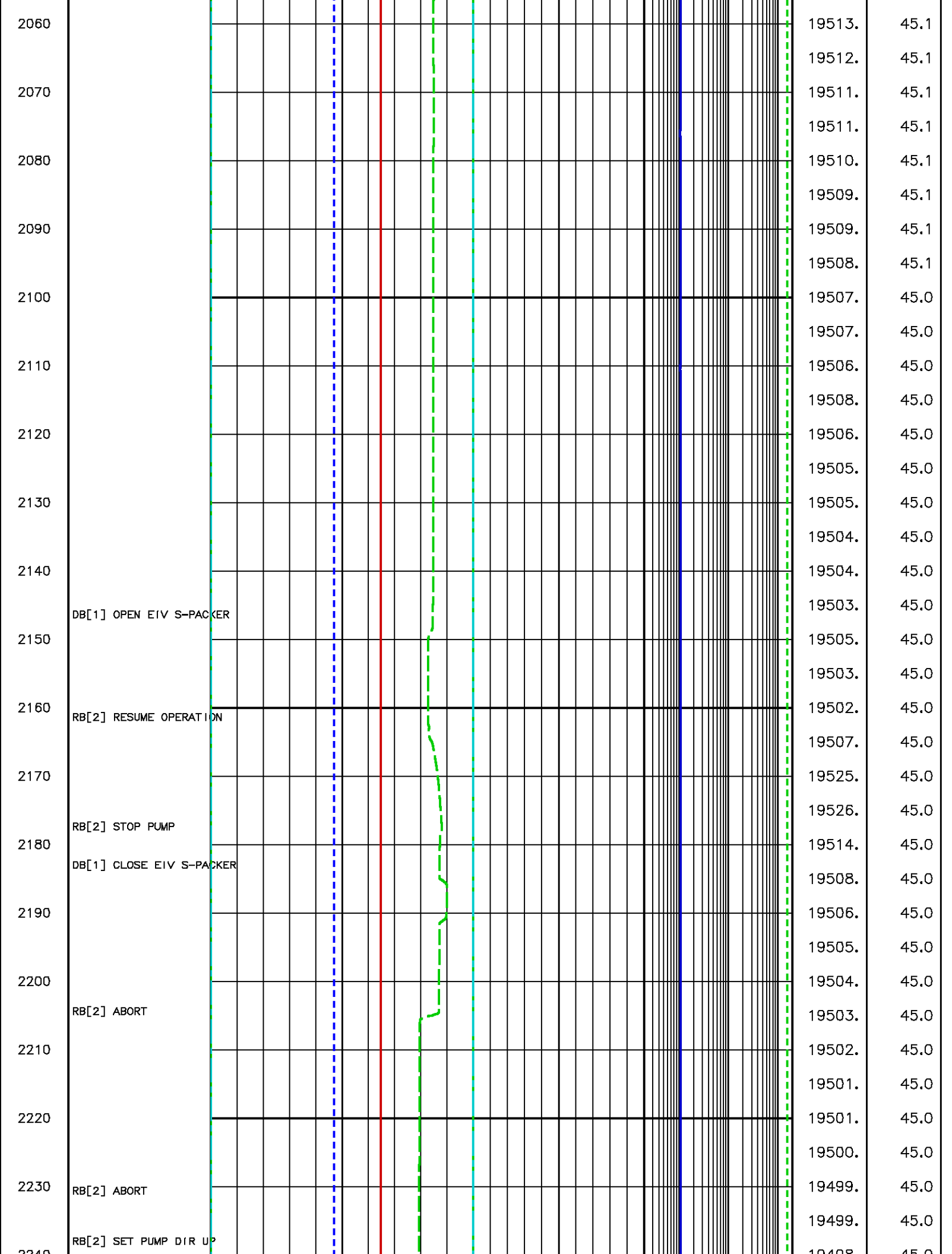


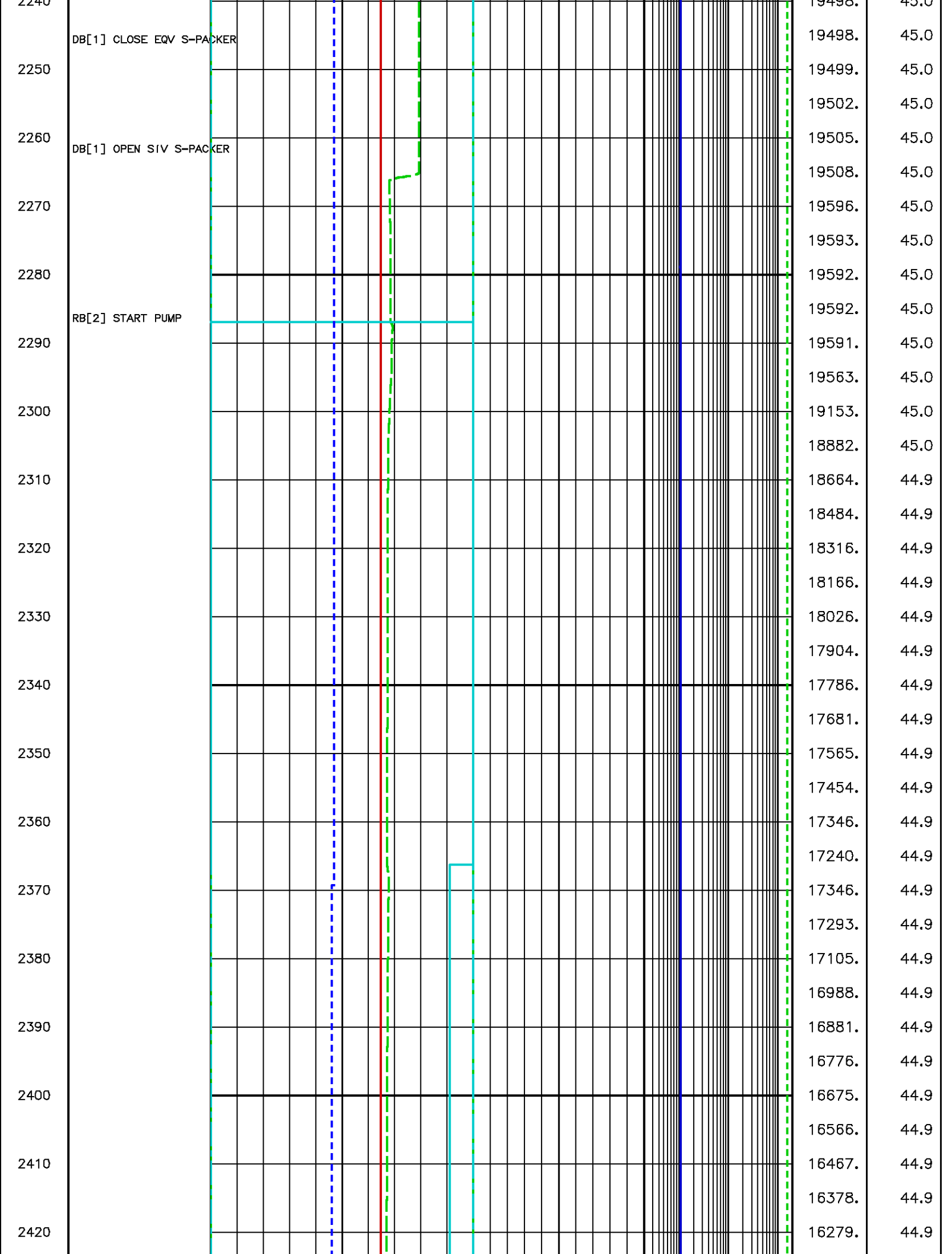


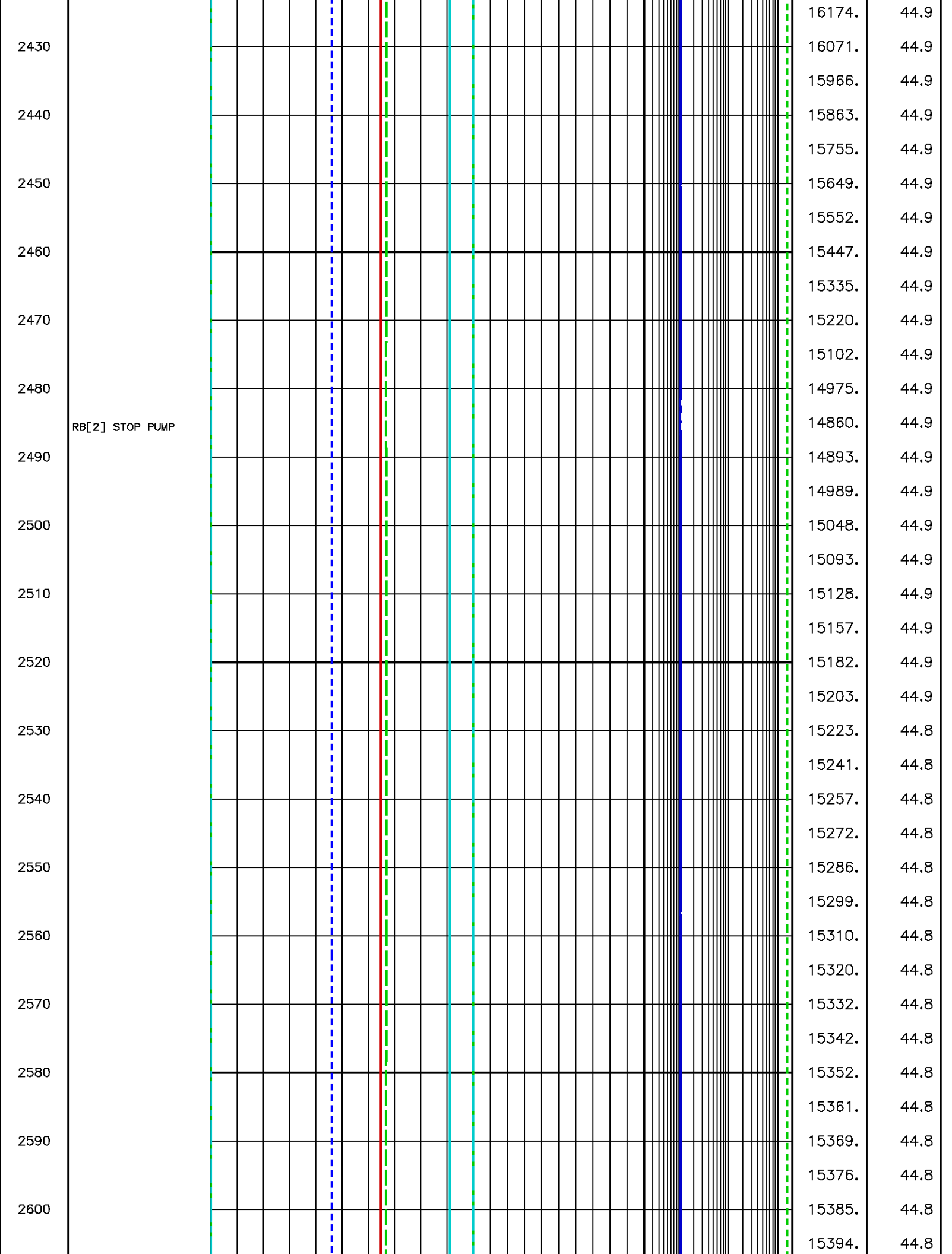












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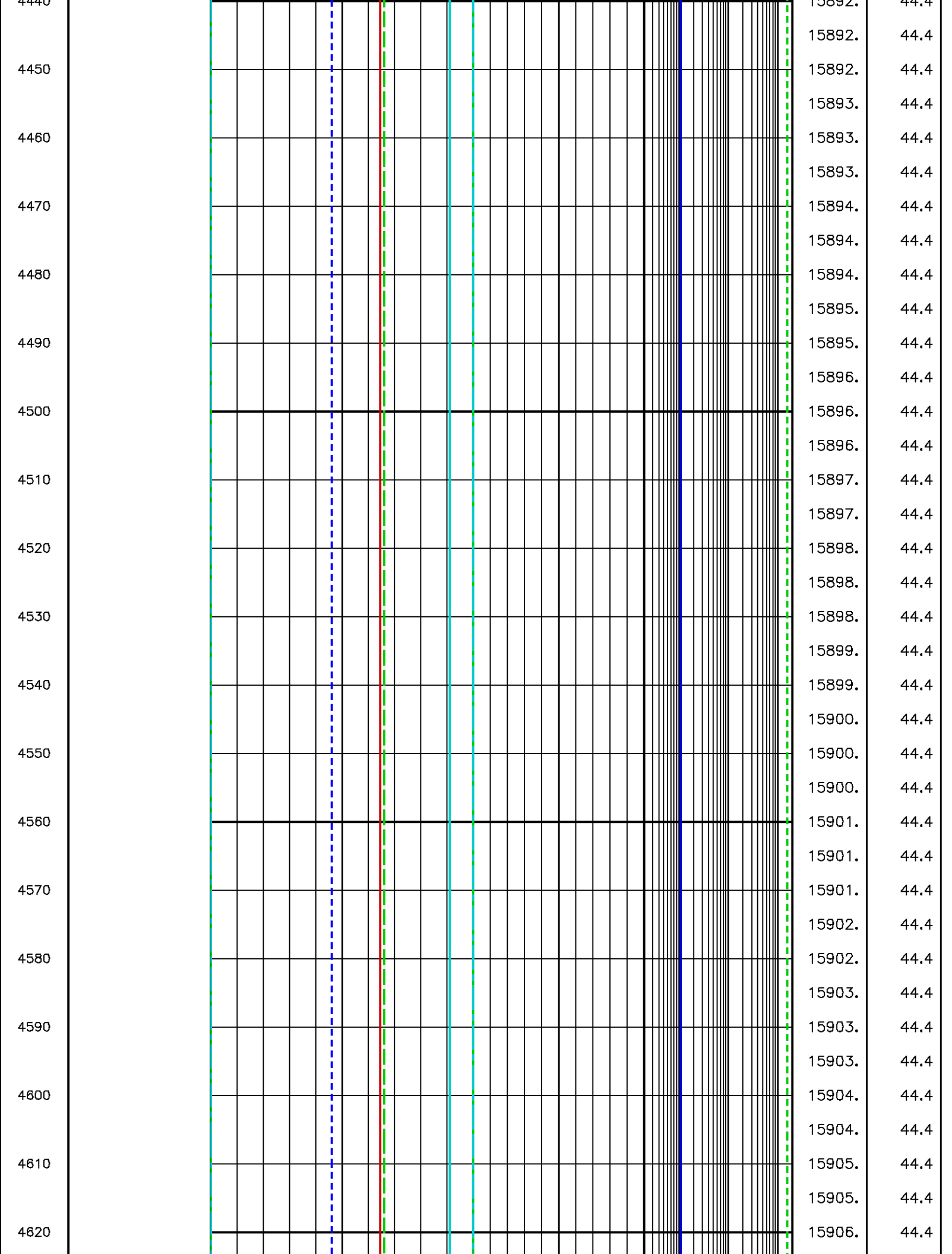
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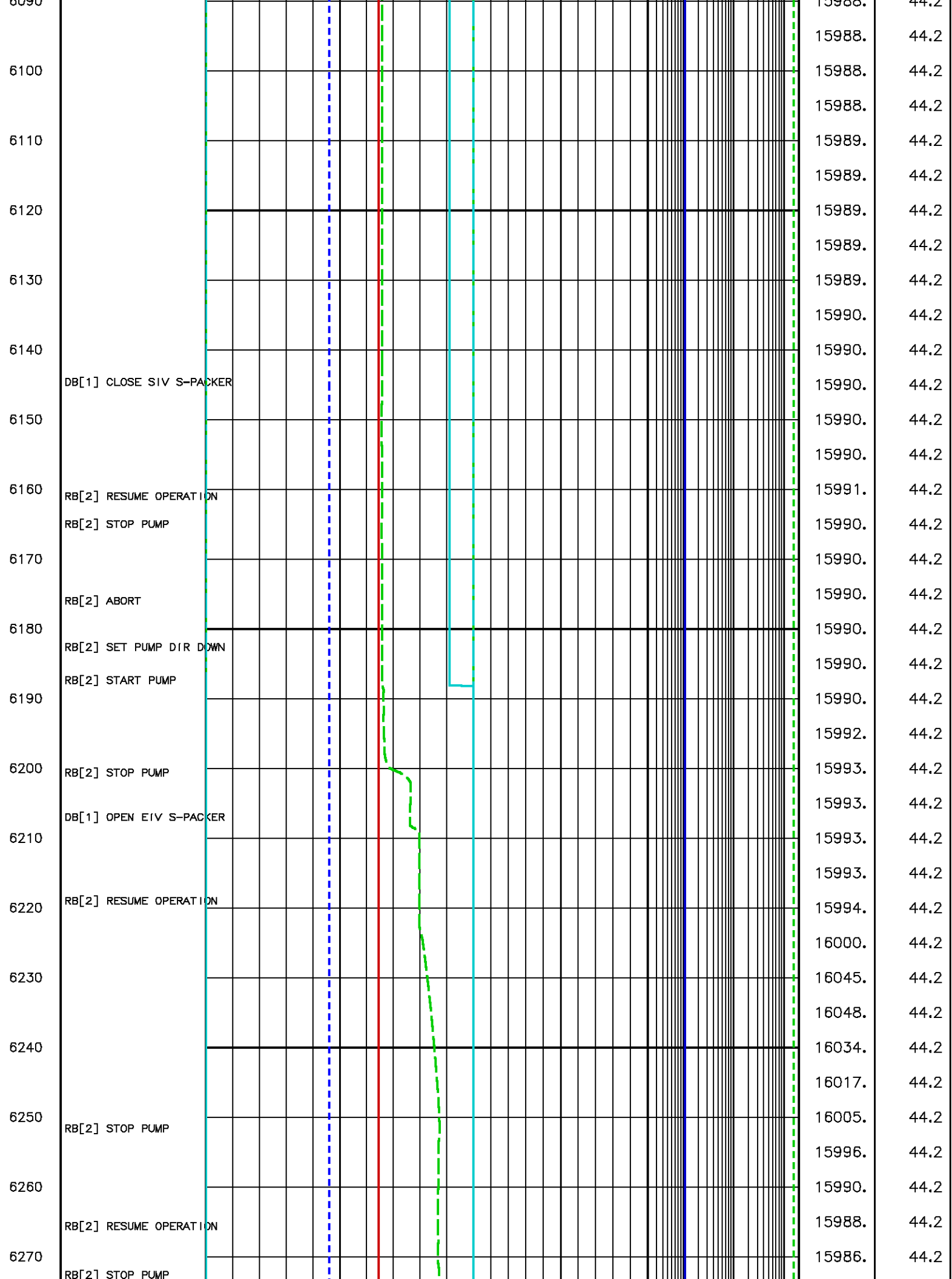
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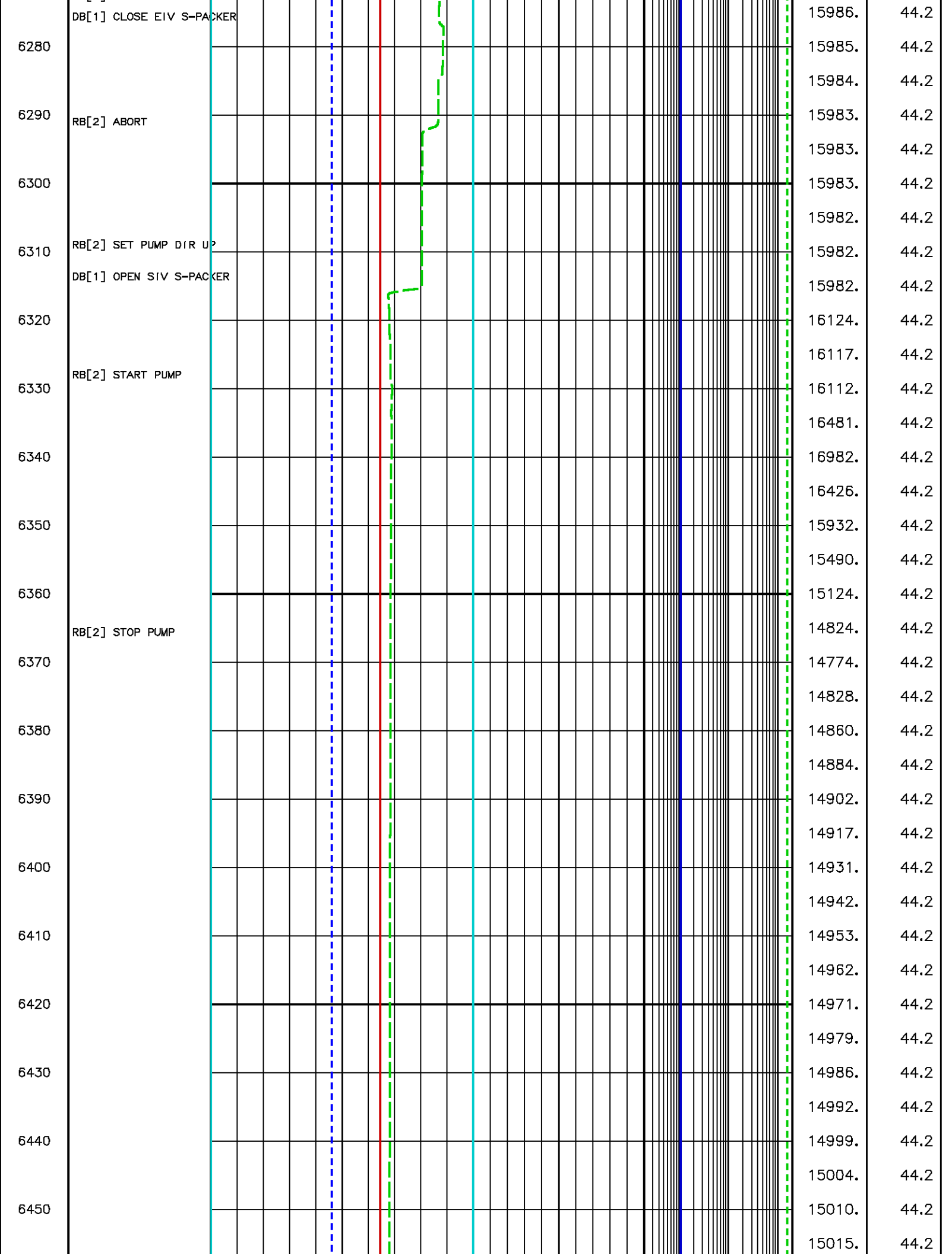
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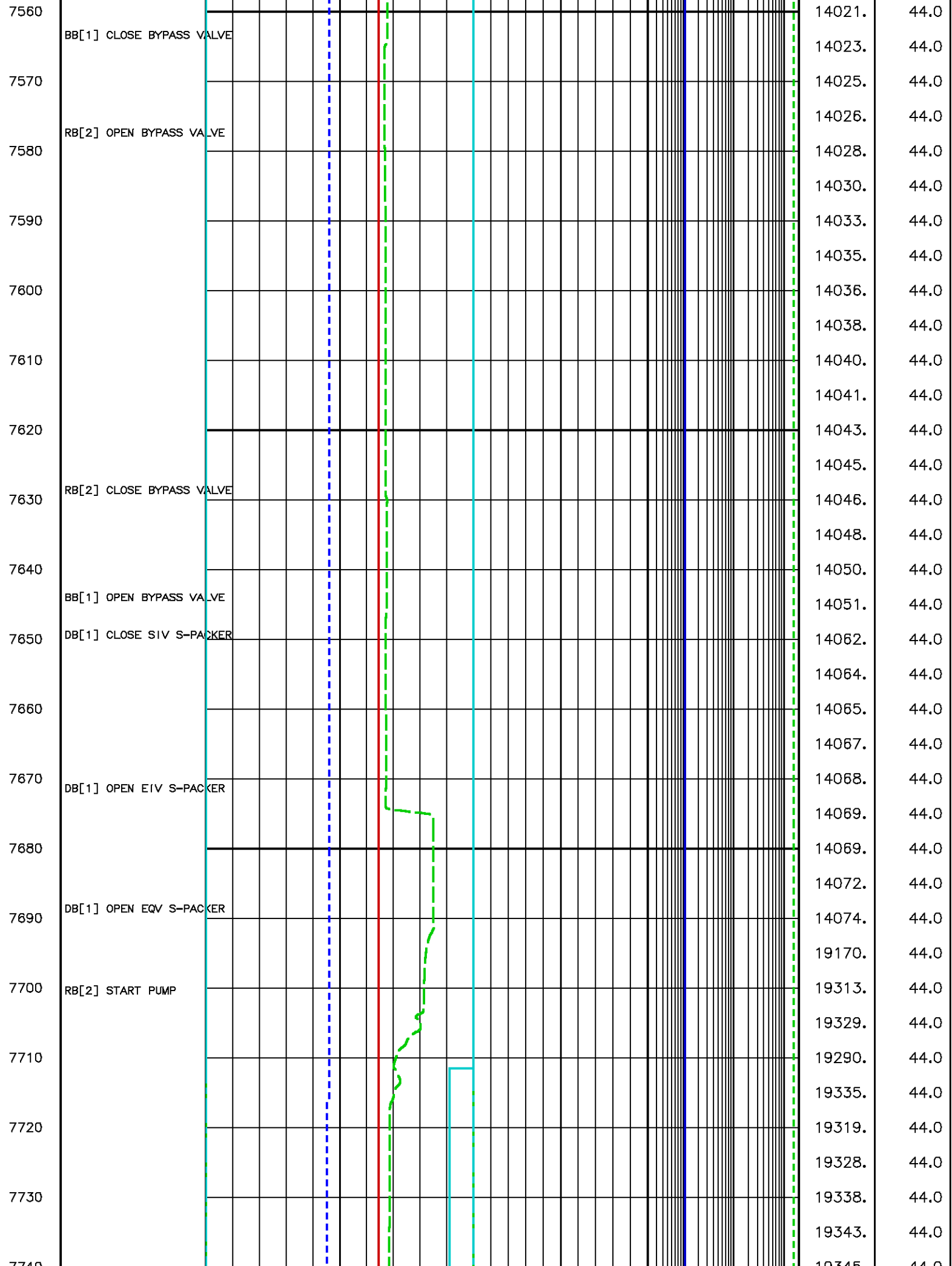
Address	Operation	Value	Unit
6830		15171.	44.1
		15172.	44.1
		15173.	44.1
6840		15174.	44.1
		15176.	44.1
6850		15177.	44.1
		15178.	44.1
6860		15179.	44.1
		15180.	44.1
6870		15181.	44.1
		15182.	44.1
6880		15183.	44.1
		15184.	44.1
6890		15185.	44.1
		15186.	44.1
6900		15187.	44.1
		15188.	44.1
6910		15189.	44.1
		15190.	44.1
6920		15191.	44.1
	RB[2] RESUME OPERATION	15192.	44.1
6930		15122.	44.1
		14650.	44.1
6940		14347.	44.1
	RB[2] STOP PUMP	14213.	44.1
6950		14295.	44.1
		14336.	44.1
6960		14363.	44.1
		14384.	44.1
6970		14401.	44.1
		14416.	44.1
6980		14429.	44.1
		14441.	44.1
6990		14451.	44.1
		14460.	44.1
7000		14469.	44.1
		14477.	44.1

Time (min)	Event	Flow (m³/s)	Water Level (m)
7010		14484.	44.1
		14491.	44.1
7020		14498.	44.1
		14504.	44.1
7030		14510.	44.1
		14515.	44.1
7040		14520.	44.1
		14525.	44.1
7050		14530.	44.1
		14535.	44.1
7060		14540.	44.1
	RB[2] START PUMP	14544.	44.1
7070		14548.	44.1
		14552.	44.1
7080	RB[2] START PUMP	14556.	44.1
		14560.	44.1
7090		14563.	44.1
		14567.	44.1
7100		14570.	44.1
	RB[2] RESUME OPERATION	14574.	44.1
7110		14543.	44.1
7120		14104.	44.1
		13831.	44.1
		13613.	44.1
7130	RB[2] STOP PUMP	13415.	44.1
		13460.	44.1
7140		13535.	44.1
		13580.	44.1
7150		13612.	44.1
		13638.	44.1
7160		13661.	44.1
		13679.	44.1
7170		13695.	44.1
		13710.	44.1
7180		13724.	44.1
		13736.	44.1
7190		13747.	44.1

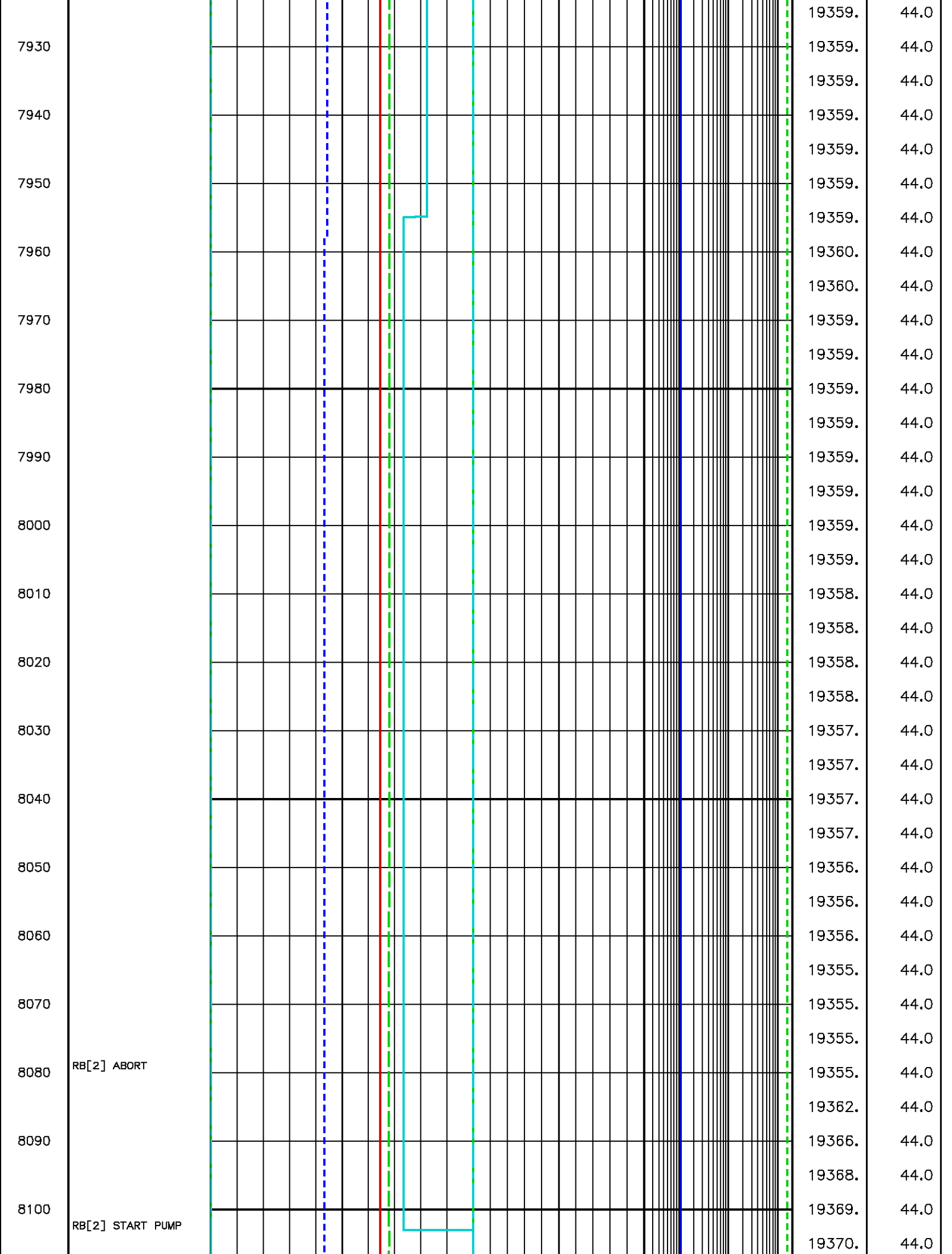
[illegible]

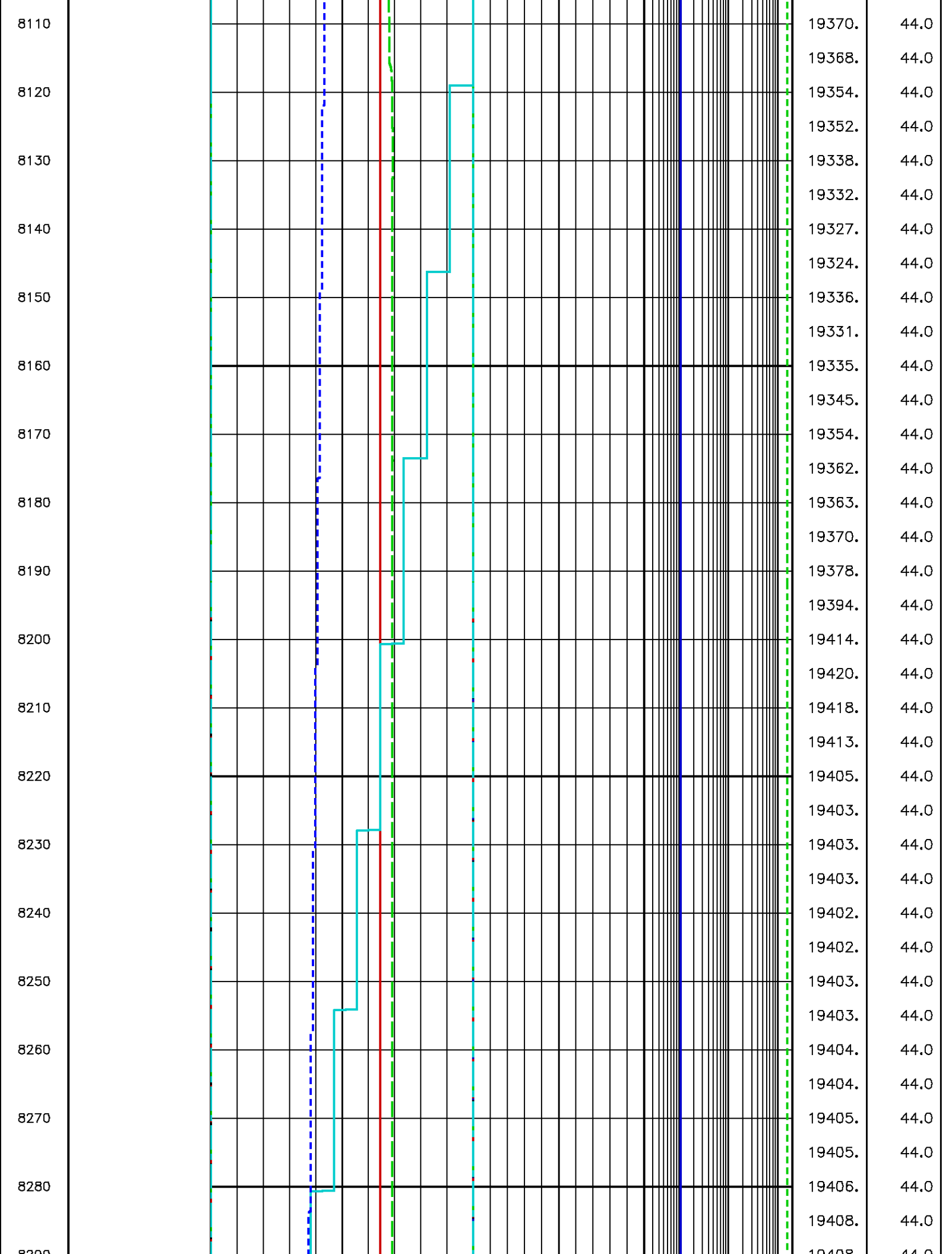


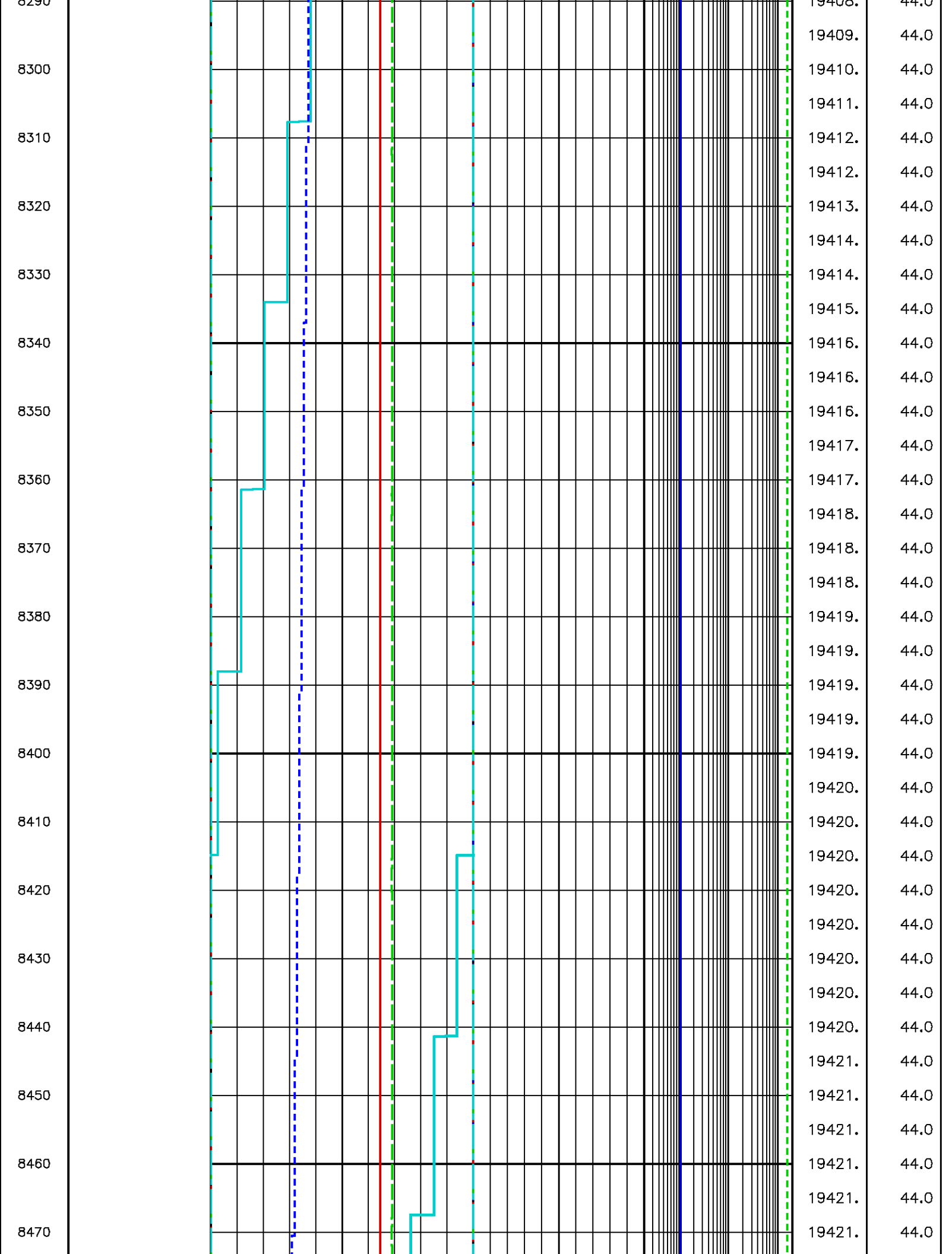
[illegible]

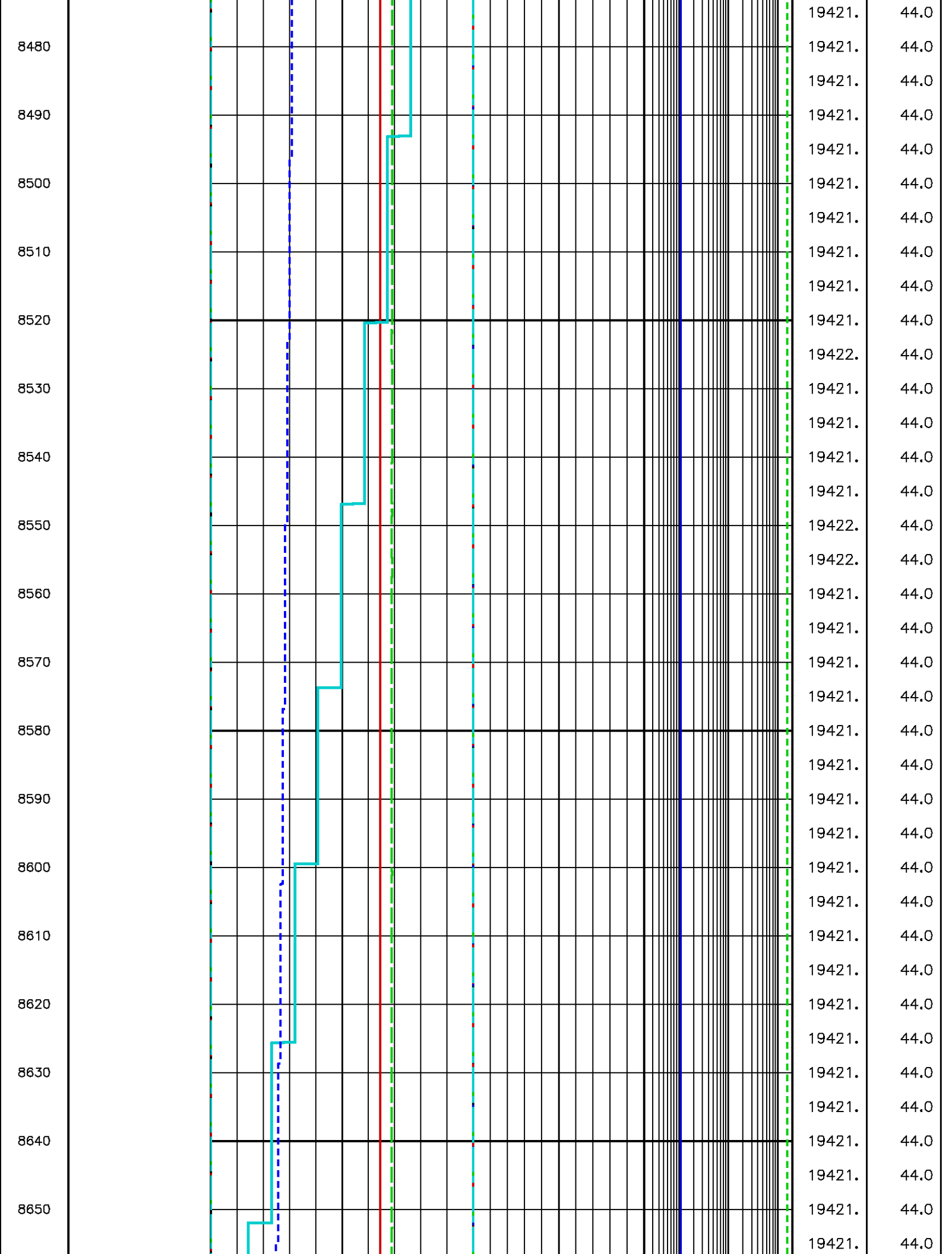


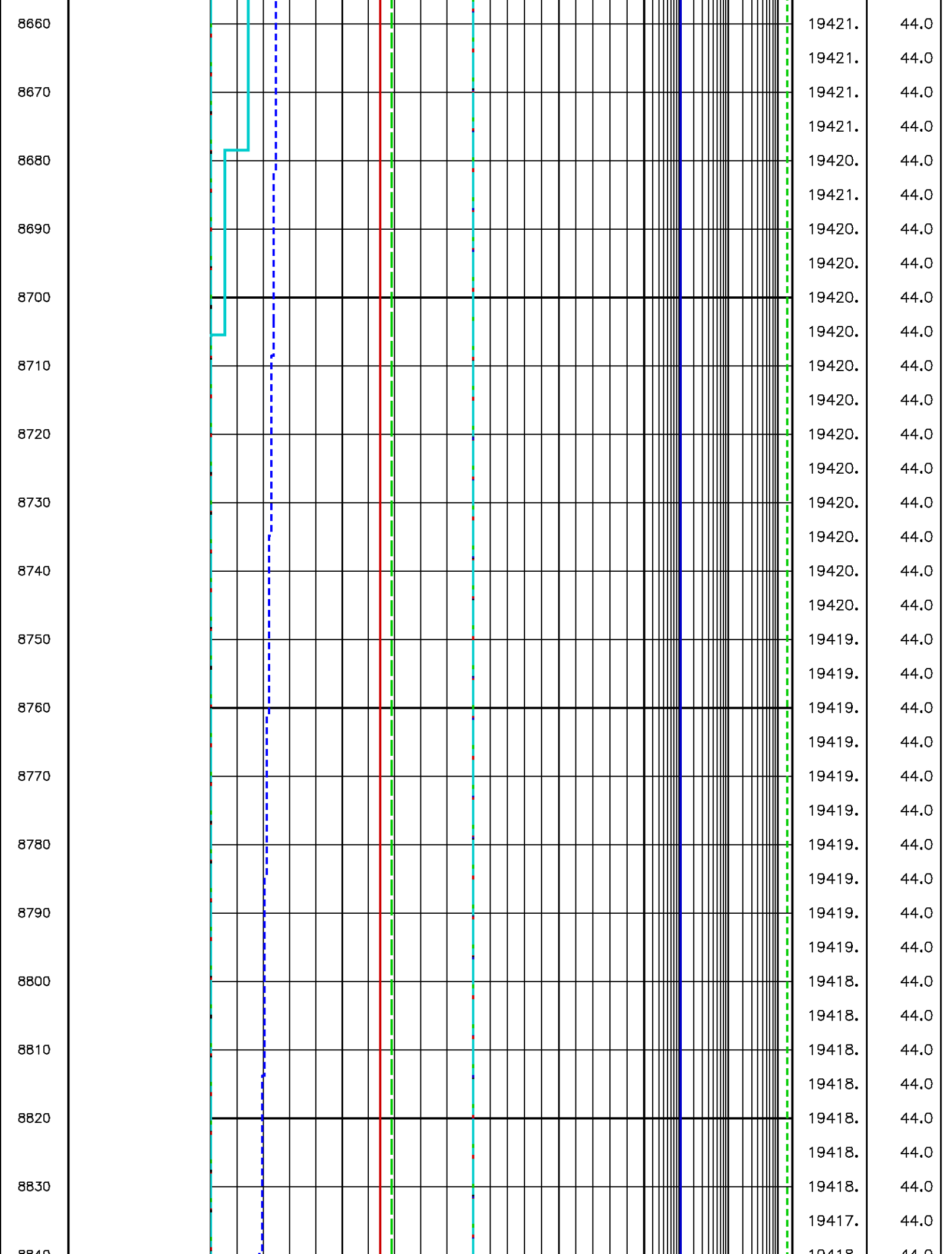
[illegible]





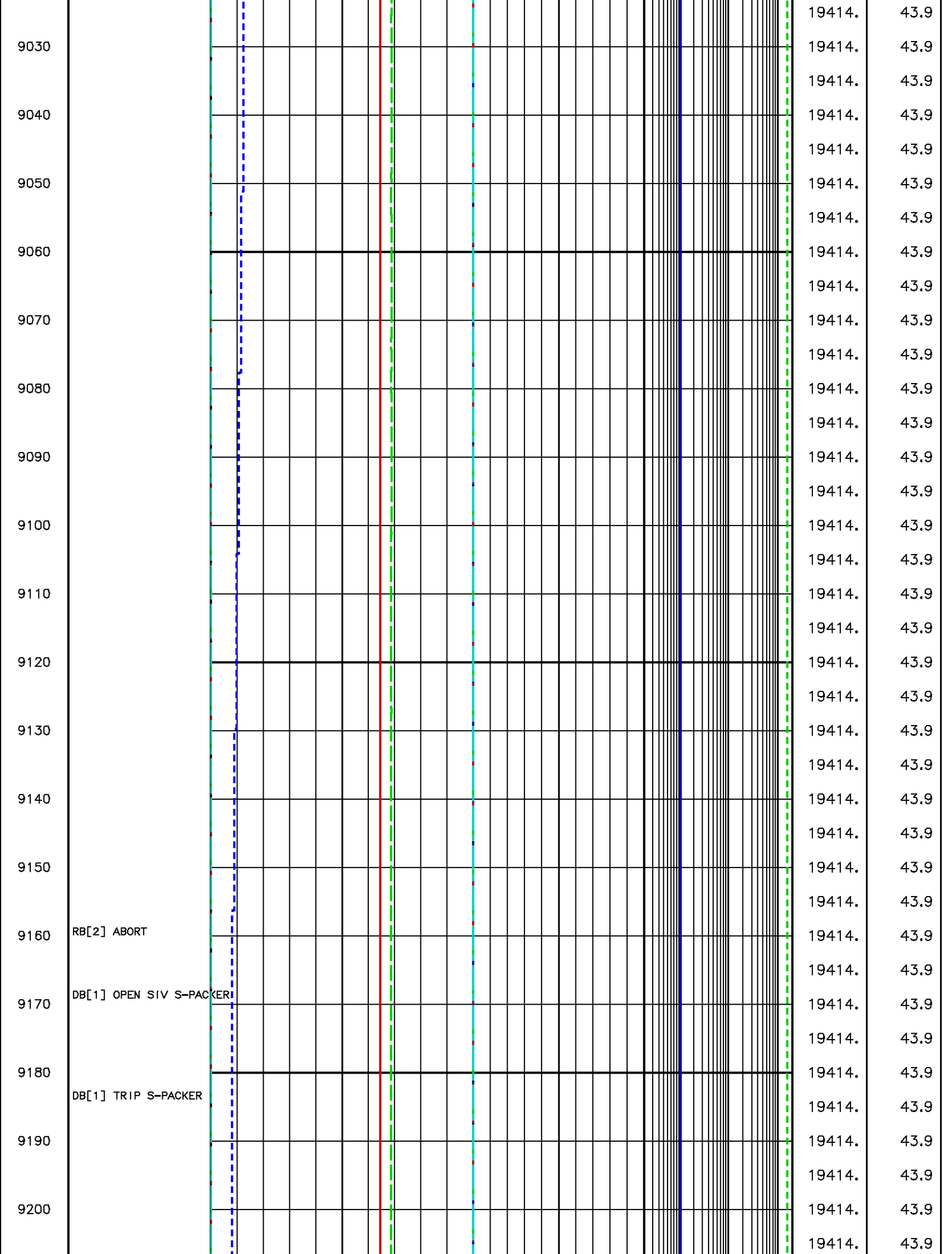








[illegible]



[illegible]

## Straddle Packer Test 1523.3 M

**ECLIPS 6.1i Aug 06, 2010**  
**Patches: 1**

Thu Nov 4 08:44:51 2010

Pcrplt /main/62

## Cplot

Pdf\_Cpp /main/16

### Fileview 5.50

## PARAMETER AND FILTER SUMMARY REPORT

```
FILE: /data/pass/nalcor_run1/m800aBB20.prm
LOGGING MODE: TIME
START TIME: 1018.125 s    END TIME: 9064.125 s
```

## SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (s)	
LMP	FILTER ()	medium(1)		START	END
QD PRES	FILTER ()	medium(1)		"	"
RTD	FILTER ()	medium(1)		"	"

## RCI PROCESSING

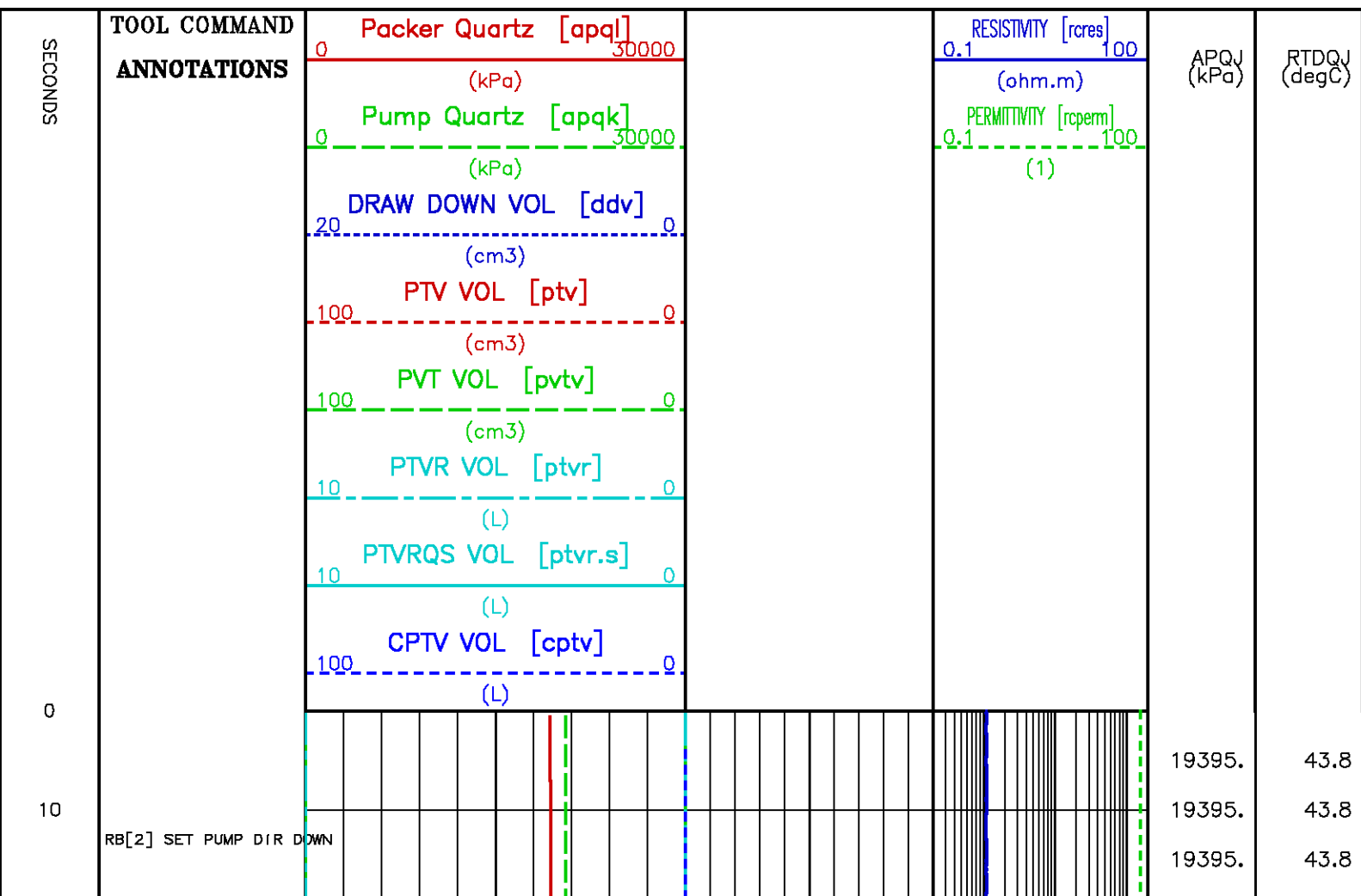
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (s)	
1970DB SPEE CORRECTION	Transducer Type	2.5	kpsl	START	END
RCI HARDWARE SELECT	Flowline Sensor (1970MB 1)	Auto		"	"
RCI PERMEABILITY	dP/dT Target	0.05	psi/min	"	"
RCI VOLUME	Isolated VOL	51.0(56/36.2cc pump)		"	"
	Piston Area	445.8 (56 cc pump)		"	"
RCI DEPTH CORRECTED PRESSURE	Regulation Source	Use 4431		"	"

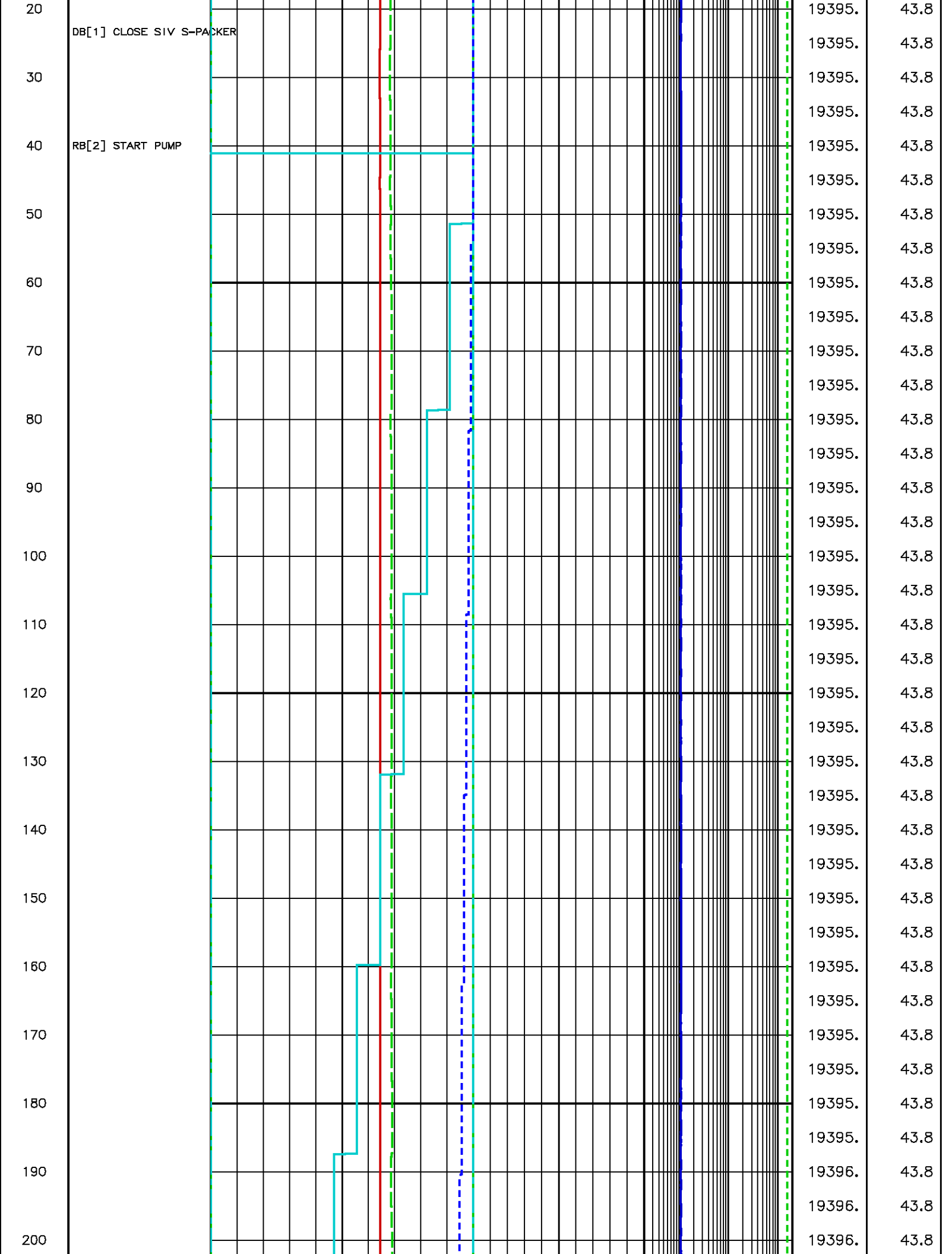
RCI DEPTH CORRECTED PRESSURE	Deviation Source	Use 4401	deg	''	''
FTA INPUT	User Input Deviation	0.00		''	''
	FTA Pressure Src (1)	Use 1970LB(MB)		''	''
	cptvf from ptvr	ON		''	''
	cptvf from ptvrs	ON		''	''
	cptvf from ptv	ON		''	''
	cptvs from ptvr	ON		''	''
	cptvs from ptvrs	ON		''	''
	cptvs from ptv	ON		''	''
RCI RB PUMP THROUGH	Volume per Stroke (1970RB 1)	Medium (500 cc)		''	''
	Volume per Stroke (1970RB 2)	Large (885 cc)		''	''

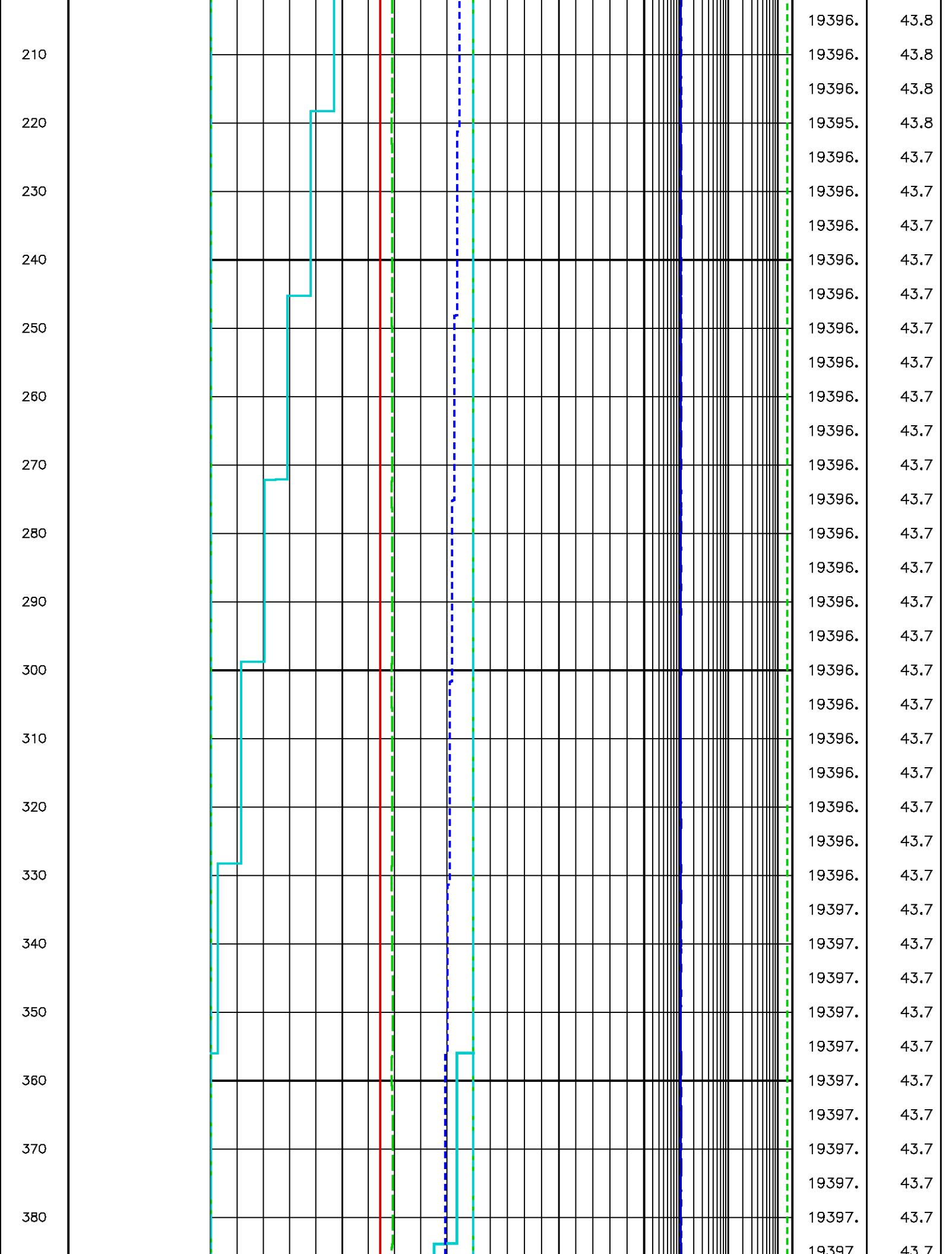
## CURVE DESCRIPTION REPORT

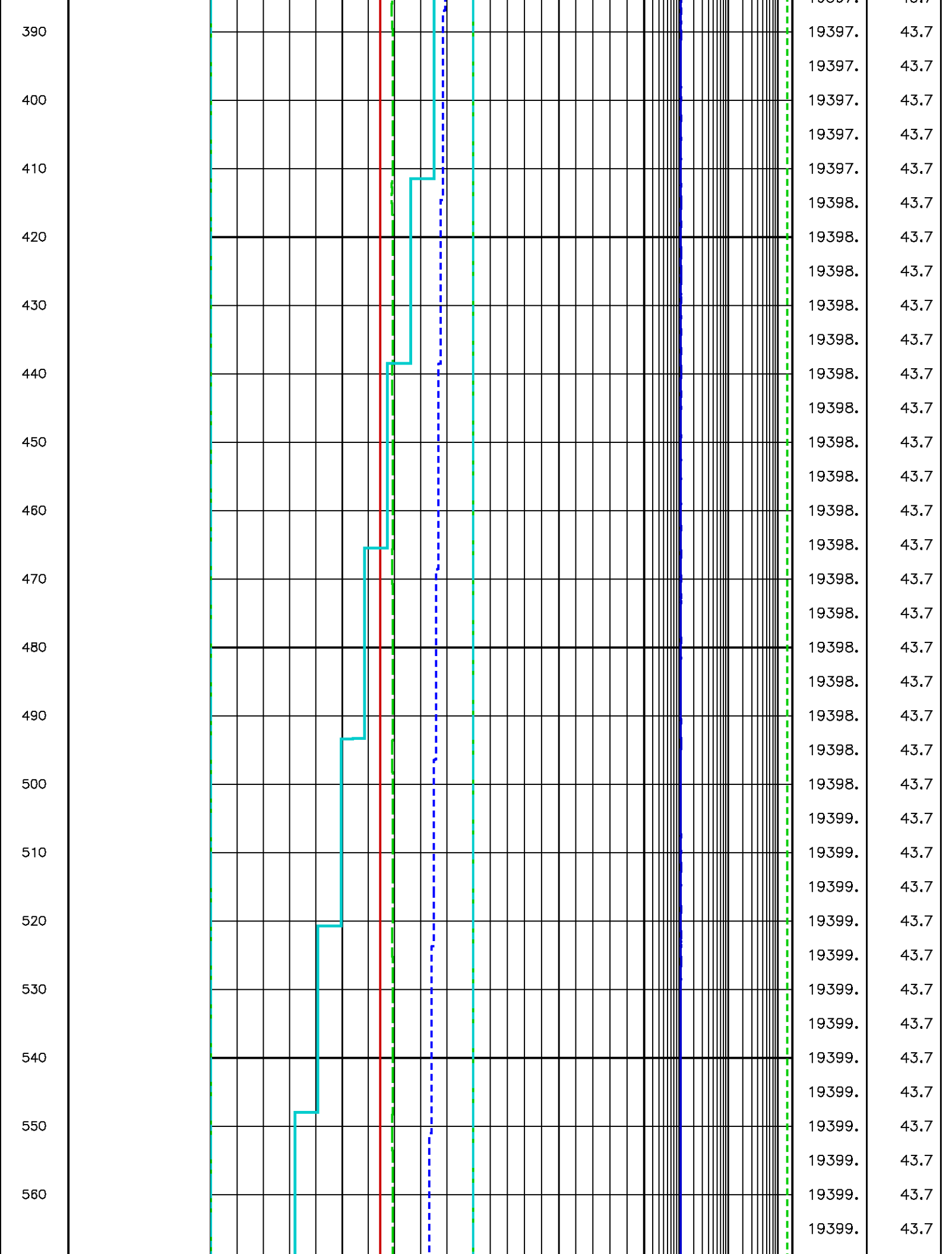
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:APQJ	Nov 4 00:33:52 2010	1970JB QUARTZDYNE GAUGE PRESSURE
F1:APQK	Nov 4 00:33:52 2010	1970KB QUARTZDYNE GAUGE PRESSURE
F1:APQL	Nov 4 00:33:52 2010	1970LB QUARTZDYNE GAUGE PRESSURE
F1:CPTV	Nov 4 00:33:52 2010	CUMULATIVE PUMP-THROUGH VOLUME
F1:DDV	Nov 4 00:33:52 2010	DRAWDOWN VOLUME
F1:PTV	Nov 4 00:33:52 2010	PUMP THROUGH VOLUME FOR RCI
F1:PTVR	Nov 4 00:33:52 2010	1970RB PUMPED VOLUME
F1:PVTV	Nov 4 00:33:52 2010	PVT VOLUME
F1:RCPERM	Nov 4 00:33:52 2010	DIELECTRIC CONSTANT OF FLUID IN R/C SENSOR
F1:RCRES	Nov 4 00:33:52 2010	RESISTIVITY OF FLUID IN R/C SENSOR
F1:RTDQJ	Nov 4 00:33:52 2010	1970JB QUARTZDYNE PRESSURE GAUGE TEMPERATURE

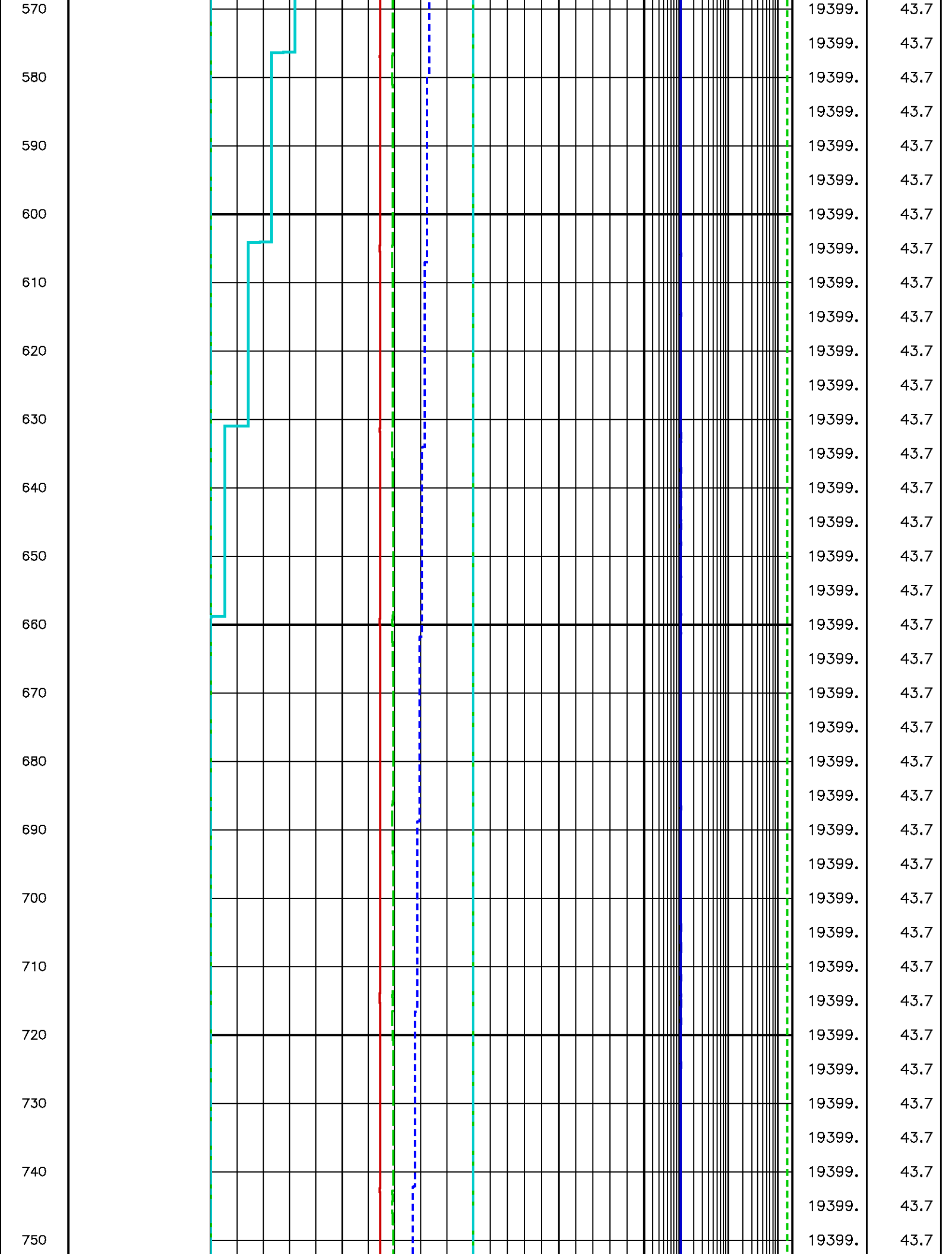
Presentation	: cpu1:/dat1a/pass/nalcors_run1/rci-15233sp.pdf [1:200 Scale]
Plot Interval	: 0 - 9064.75 Seconds
Data File 1	: F1 : cpu1:/dat1a/pass/nalcors_run1/m800aBB20.aff
Created On	: Nov 4 00:33:52 2010
Company	: NALCOR ENERGY
Well	: NALCOR ET AL FINNEGAN 31
Field	: FINNEGAN
File Interval	: 0 - 9064.75 Seconds @ 1521.32 Meters
Oct	: m800aBB



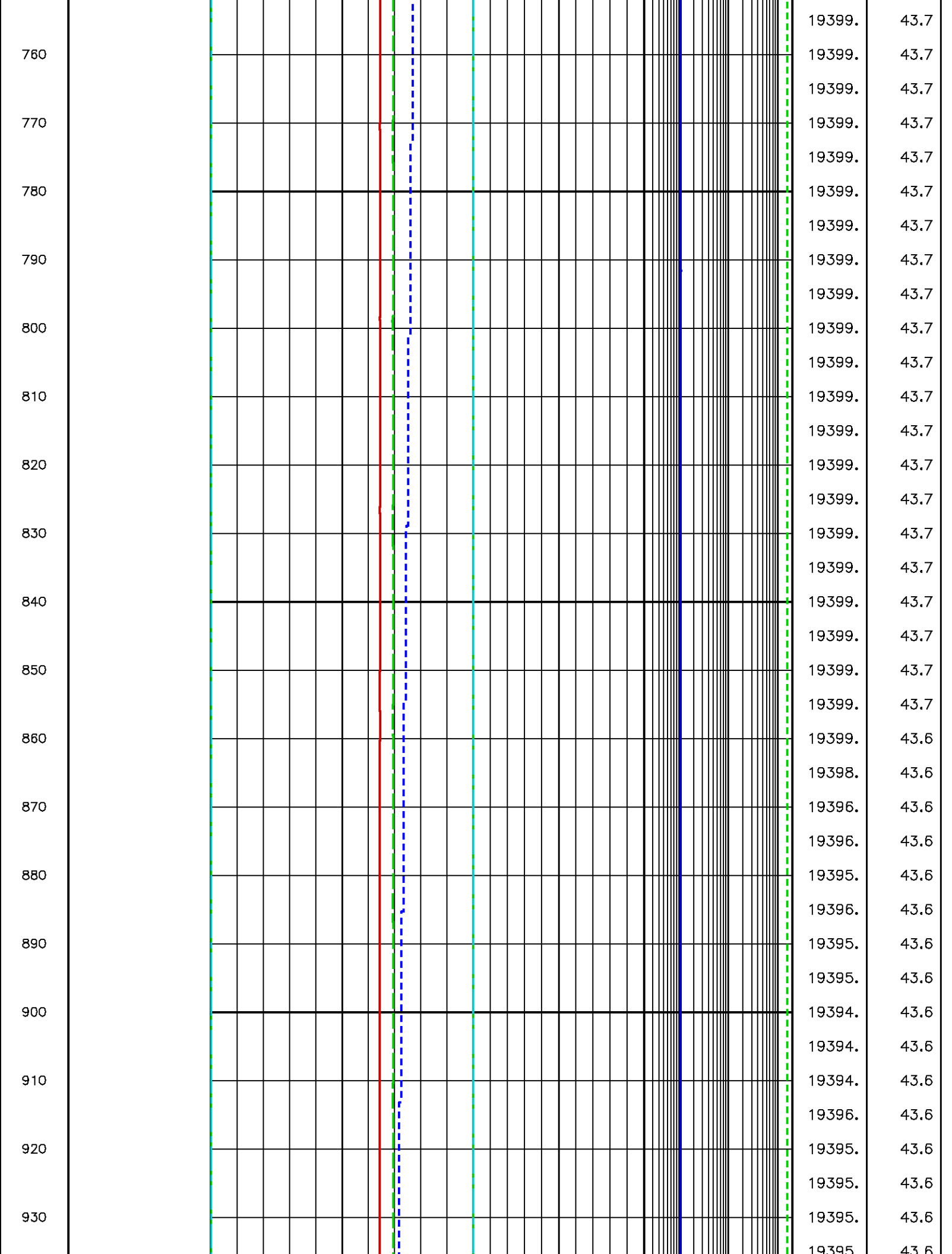


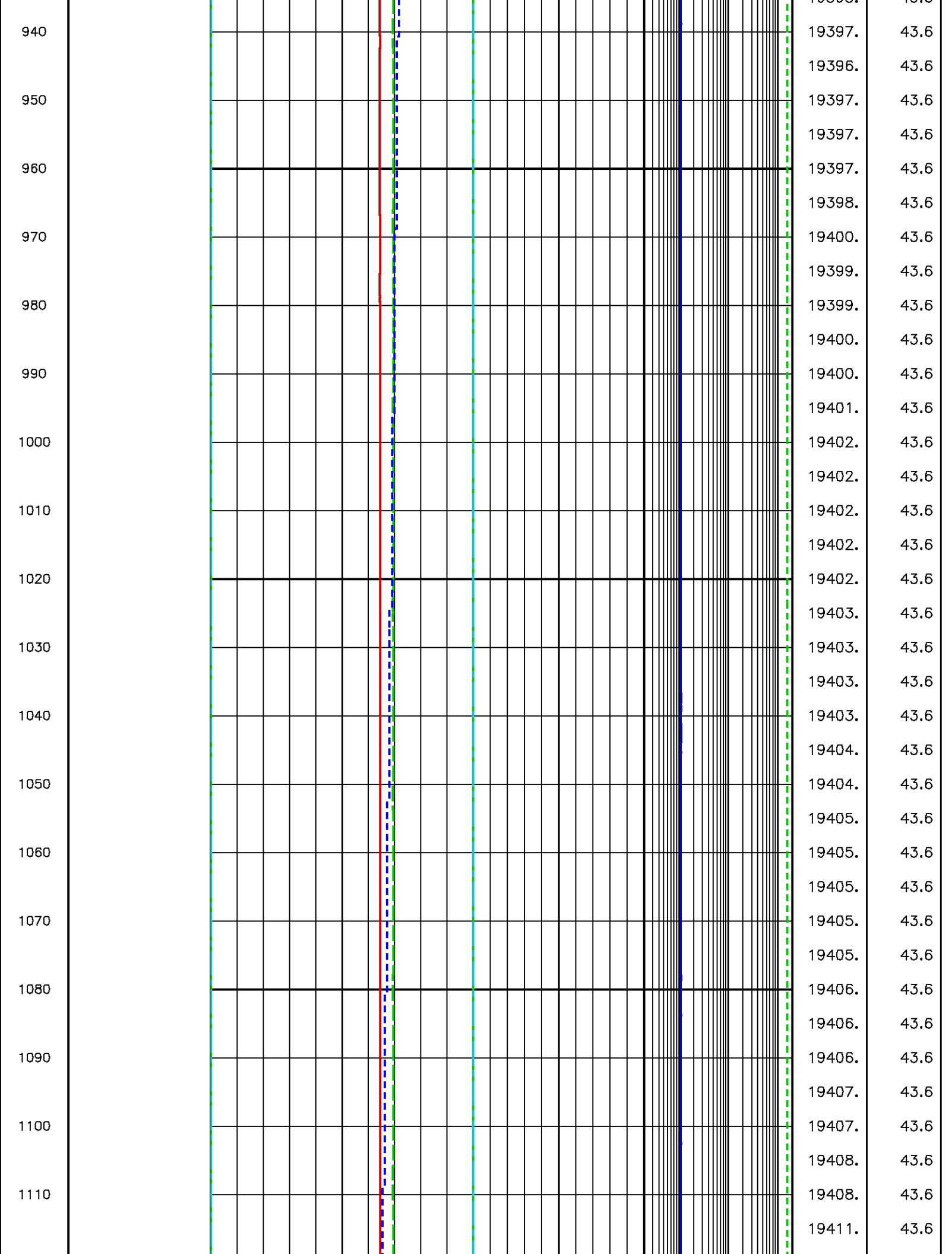


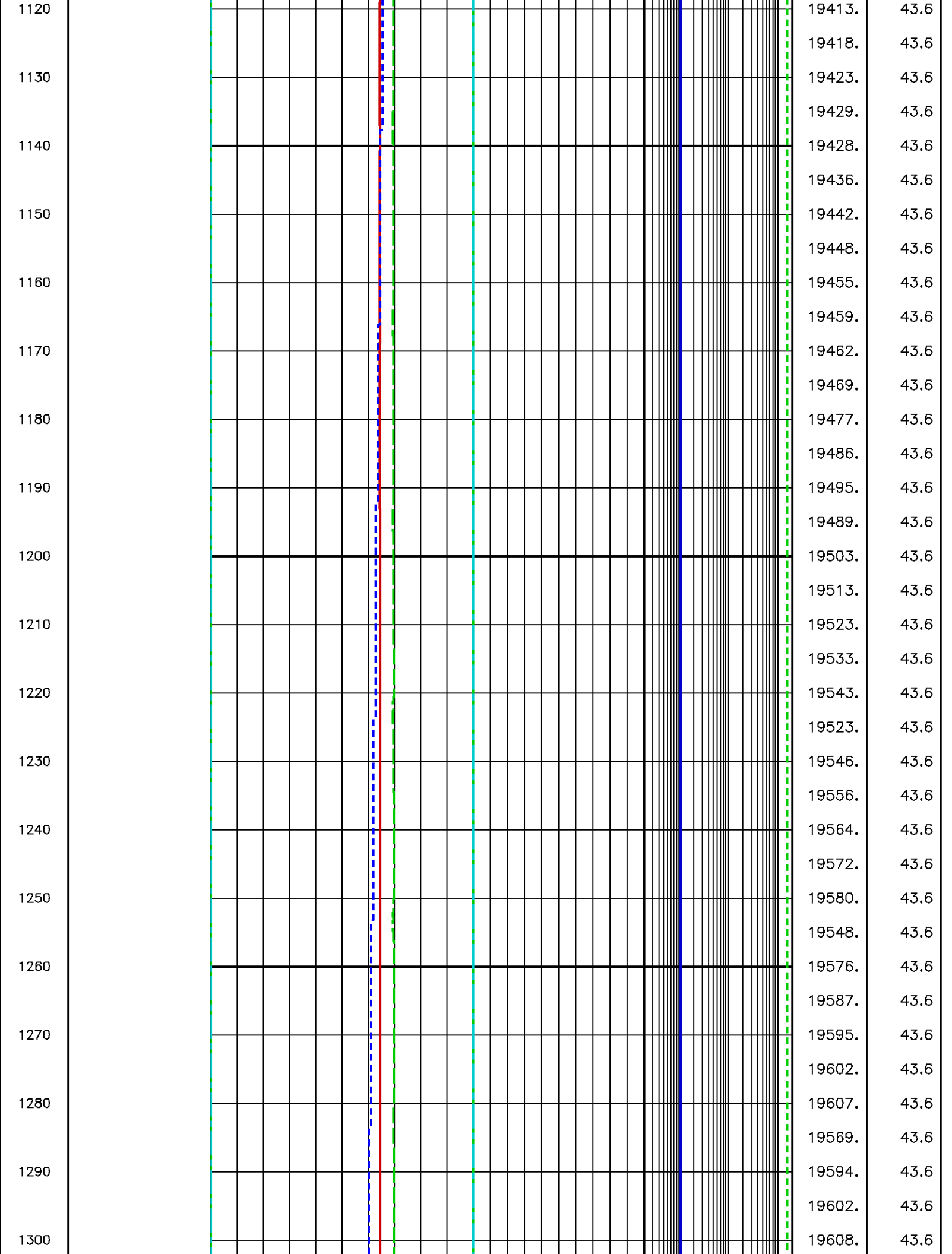


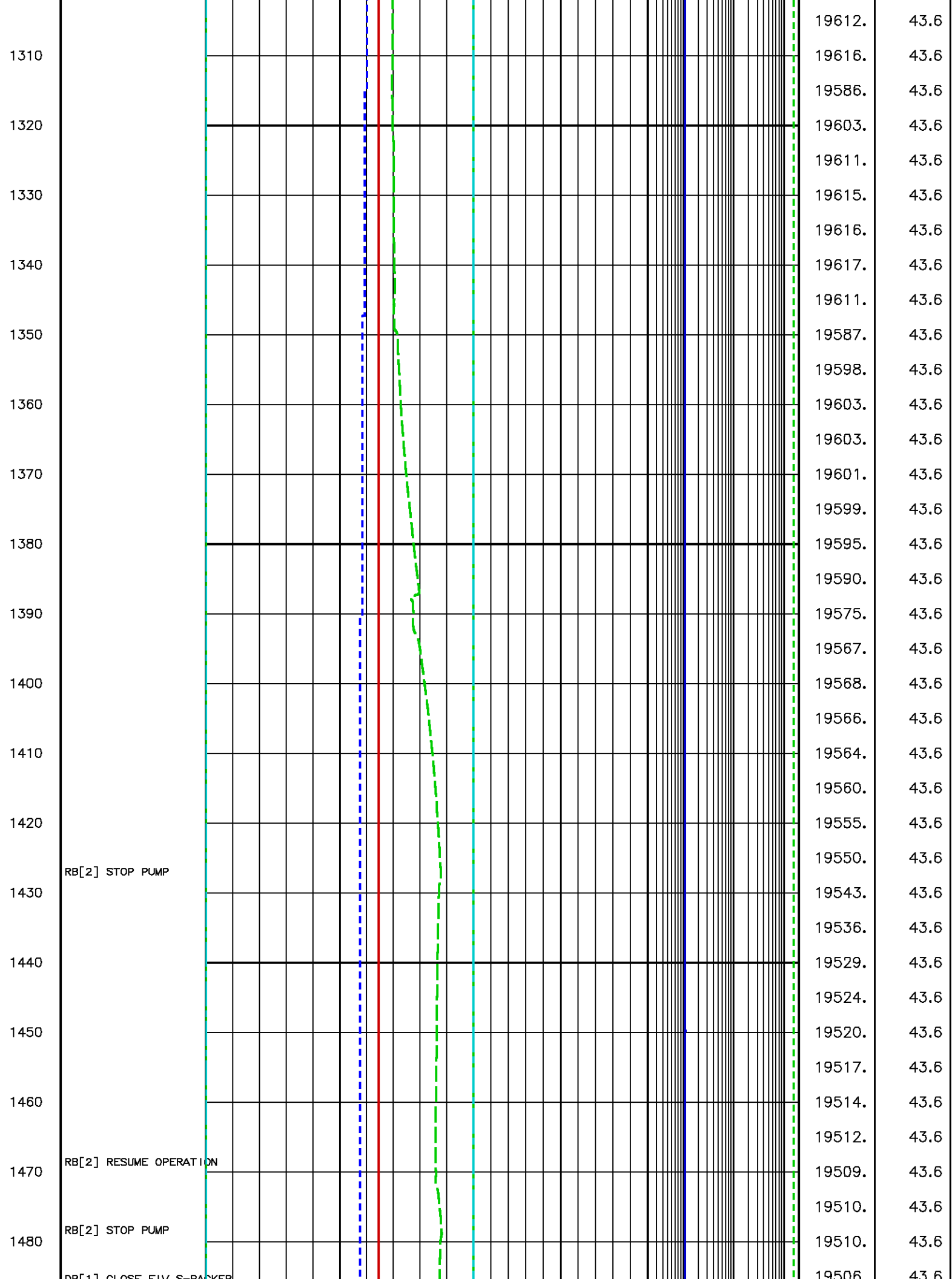


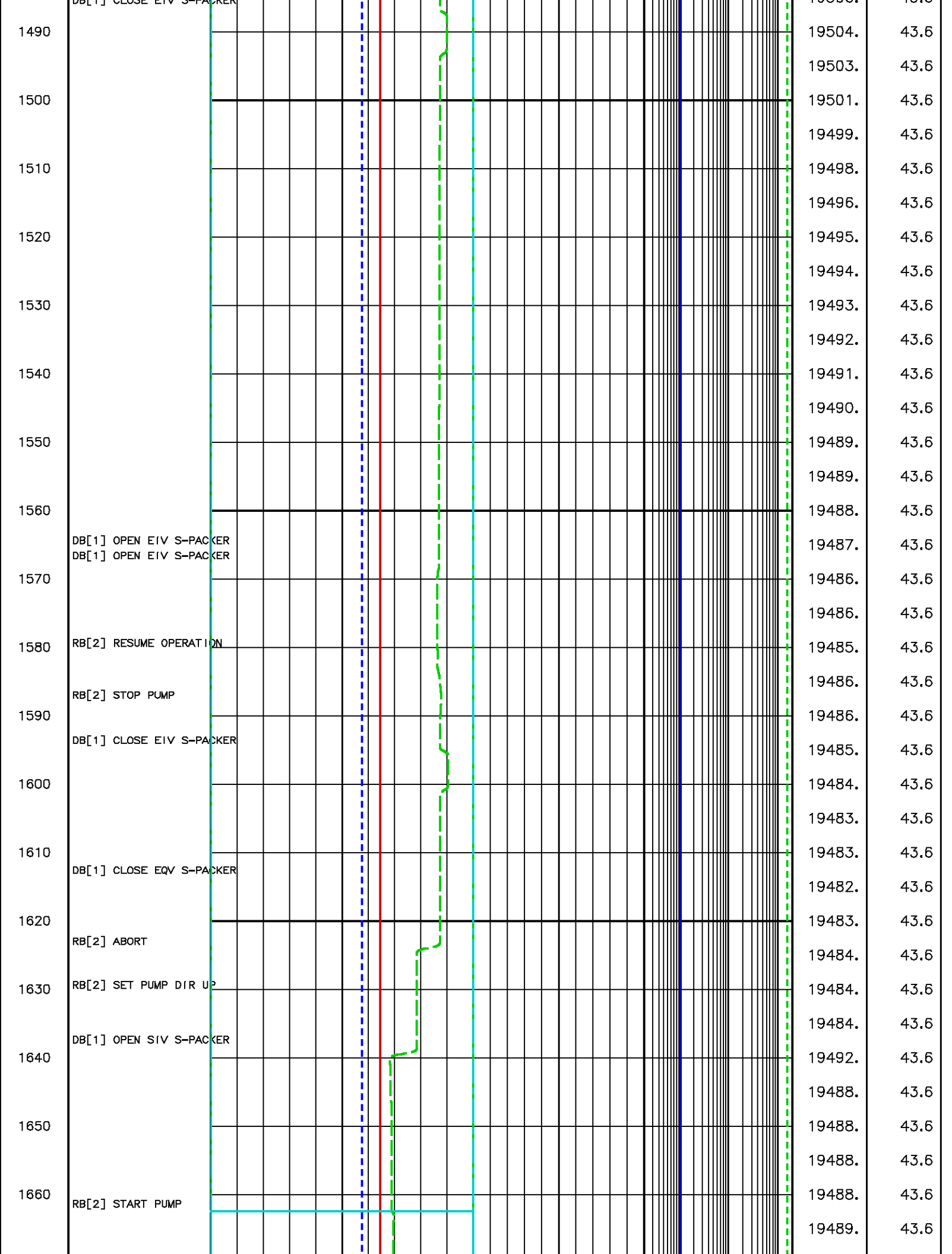


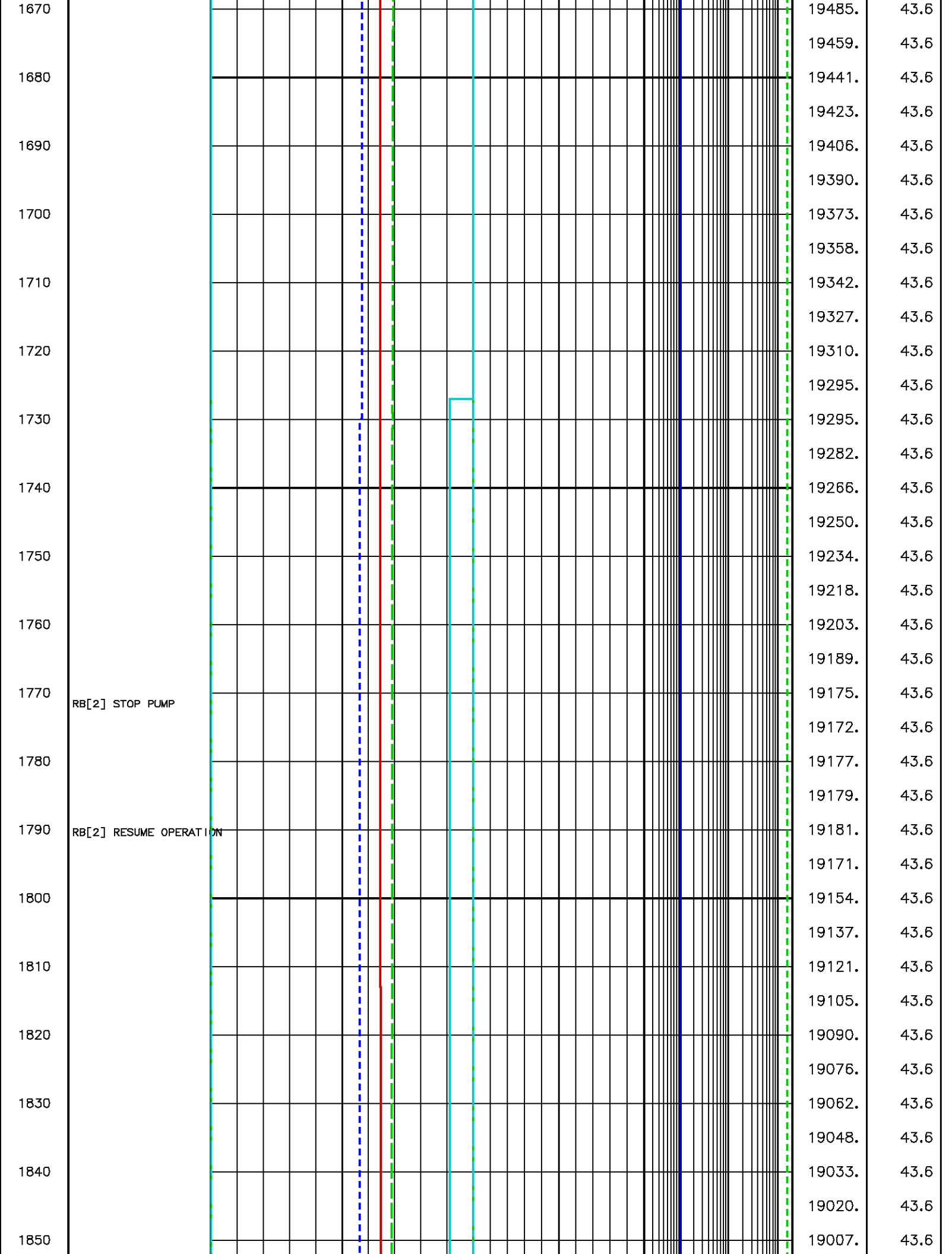


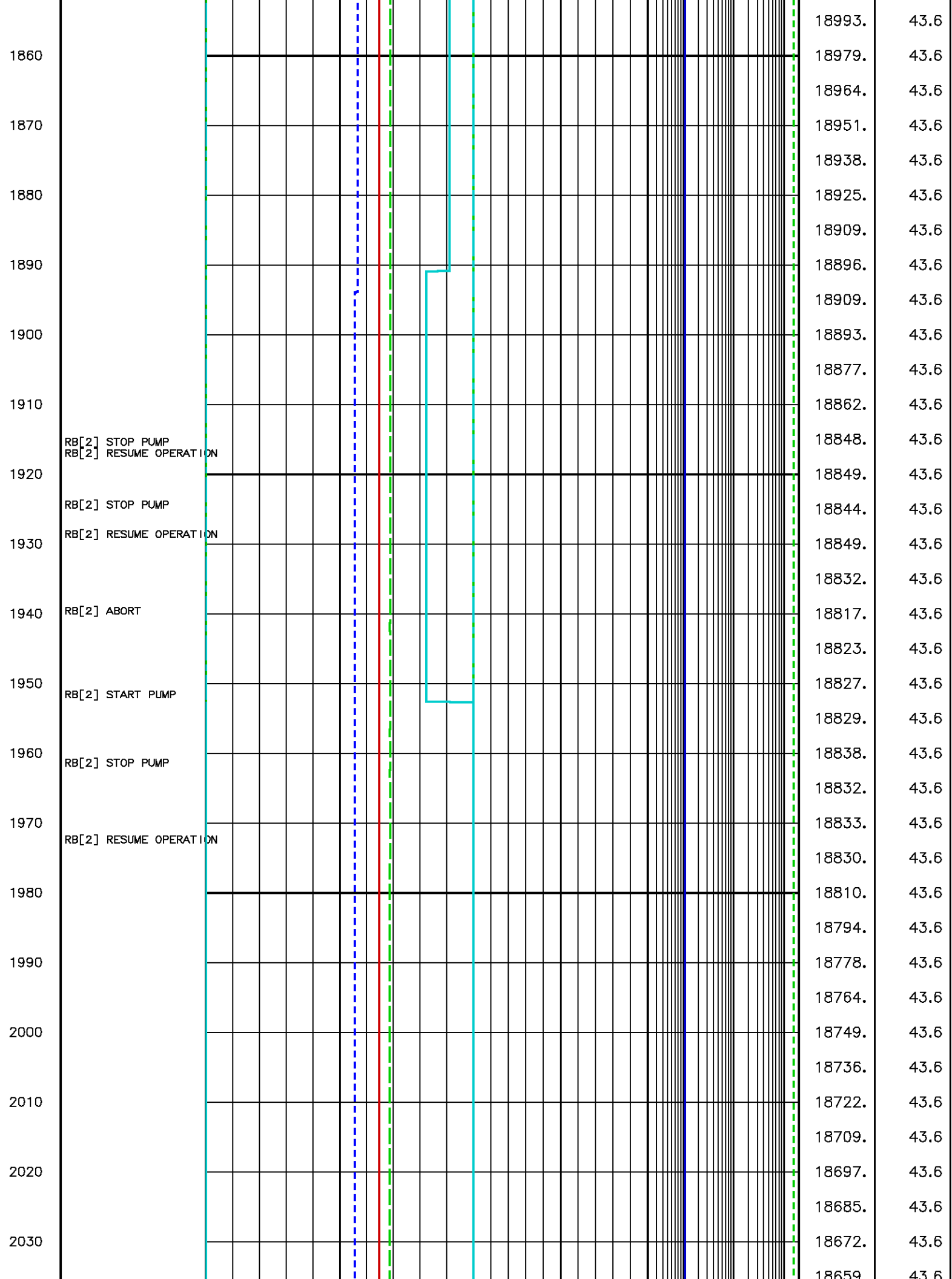


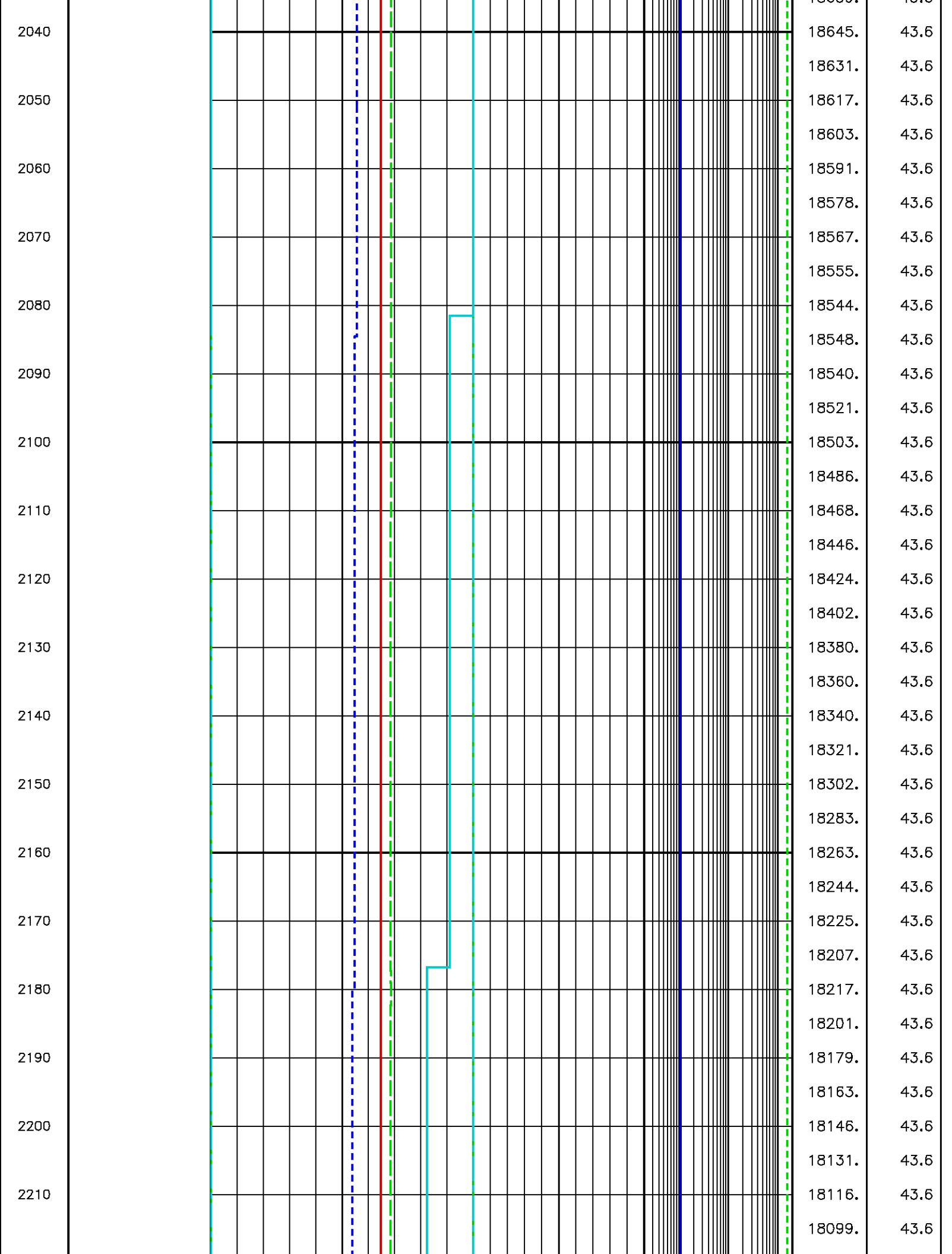




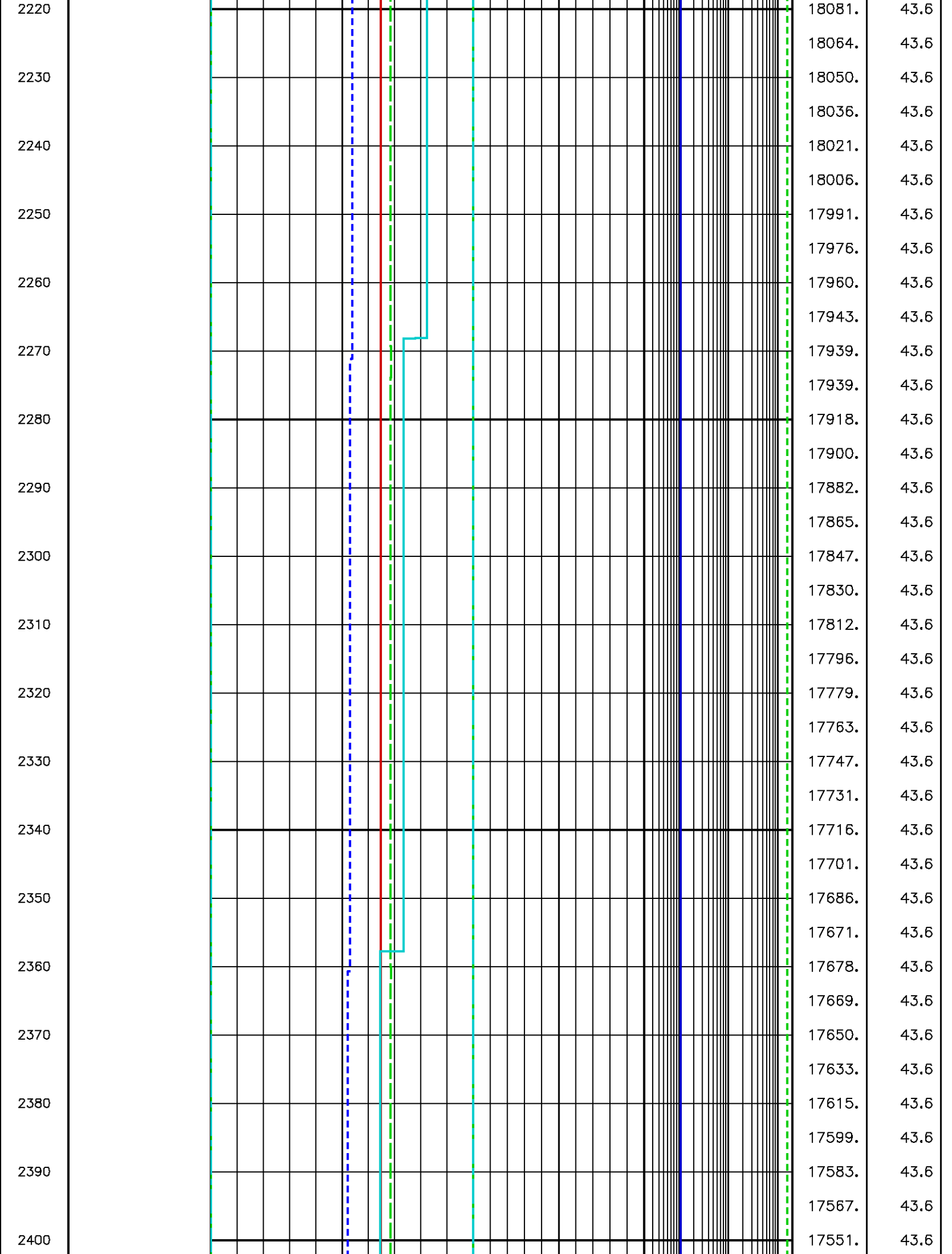


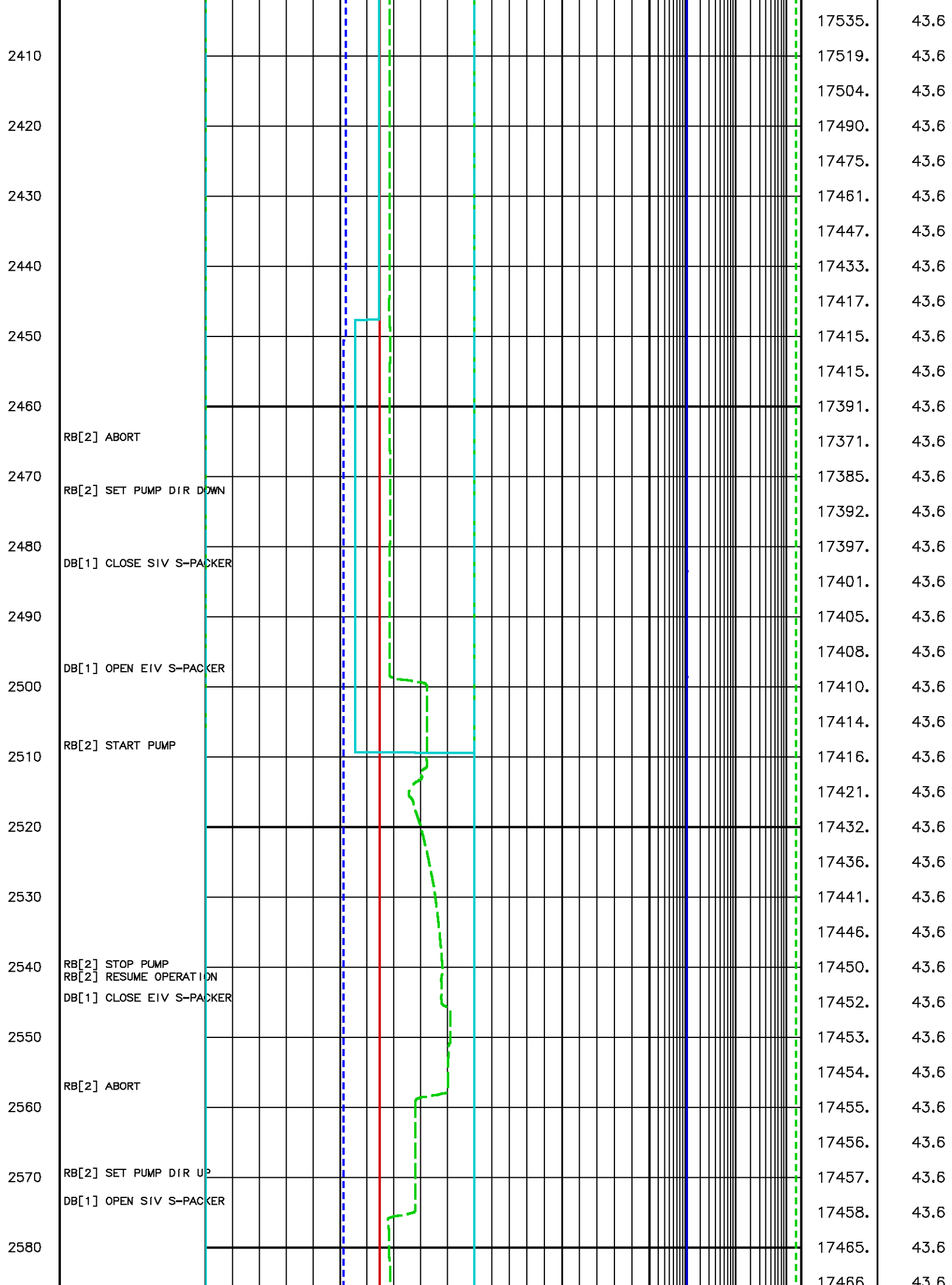


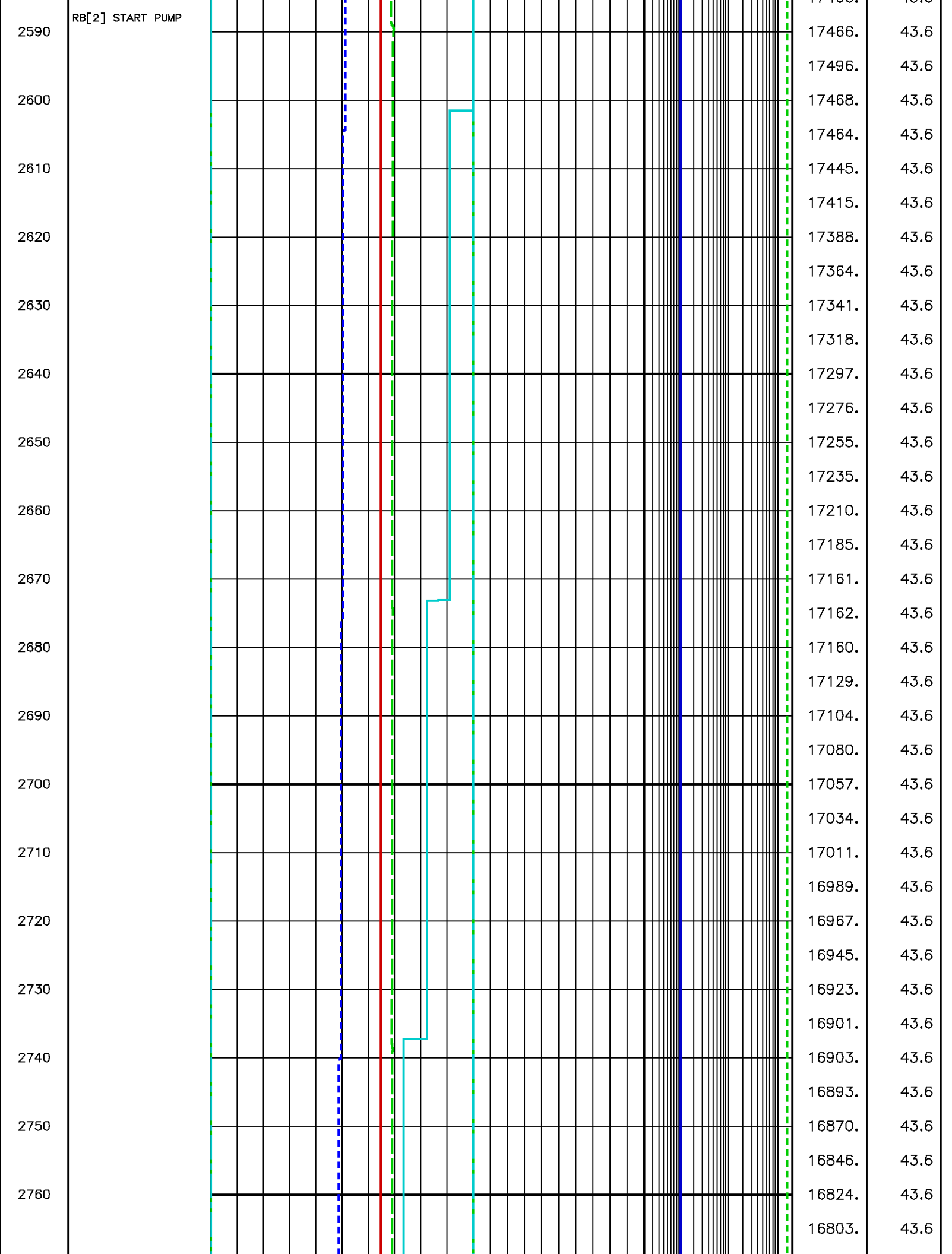


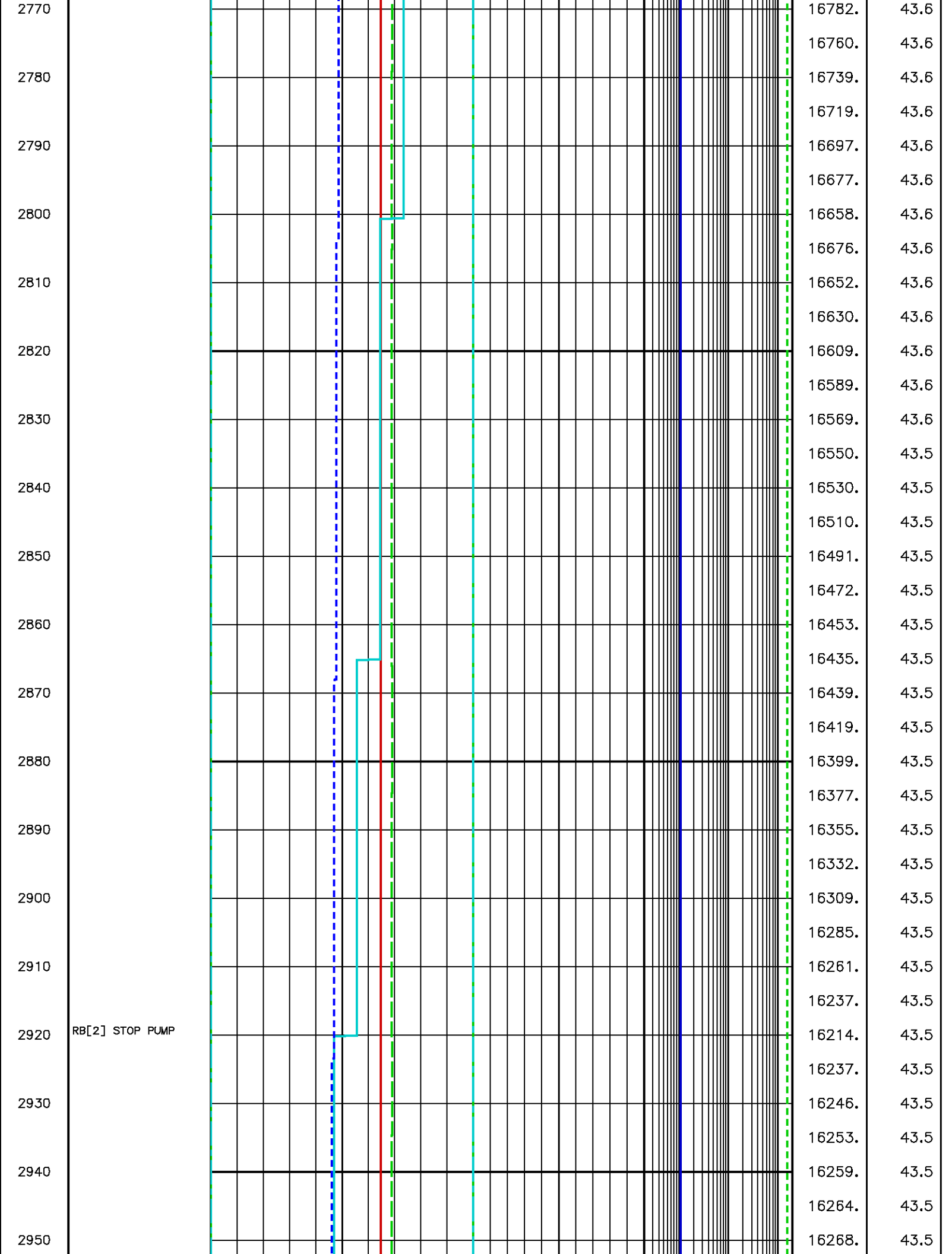


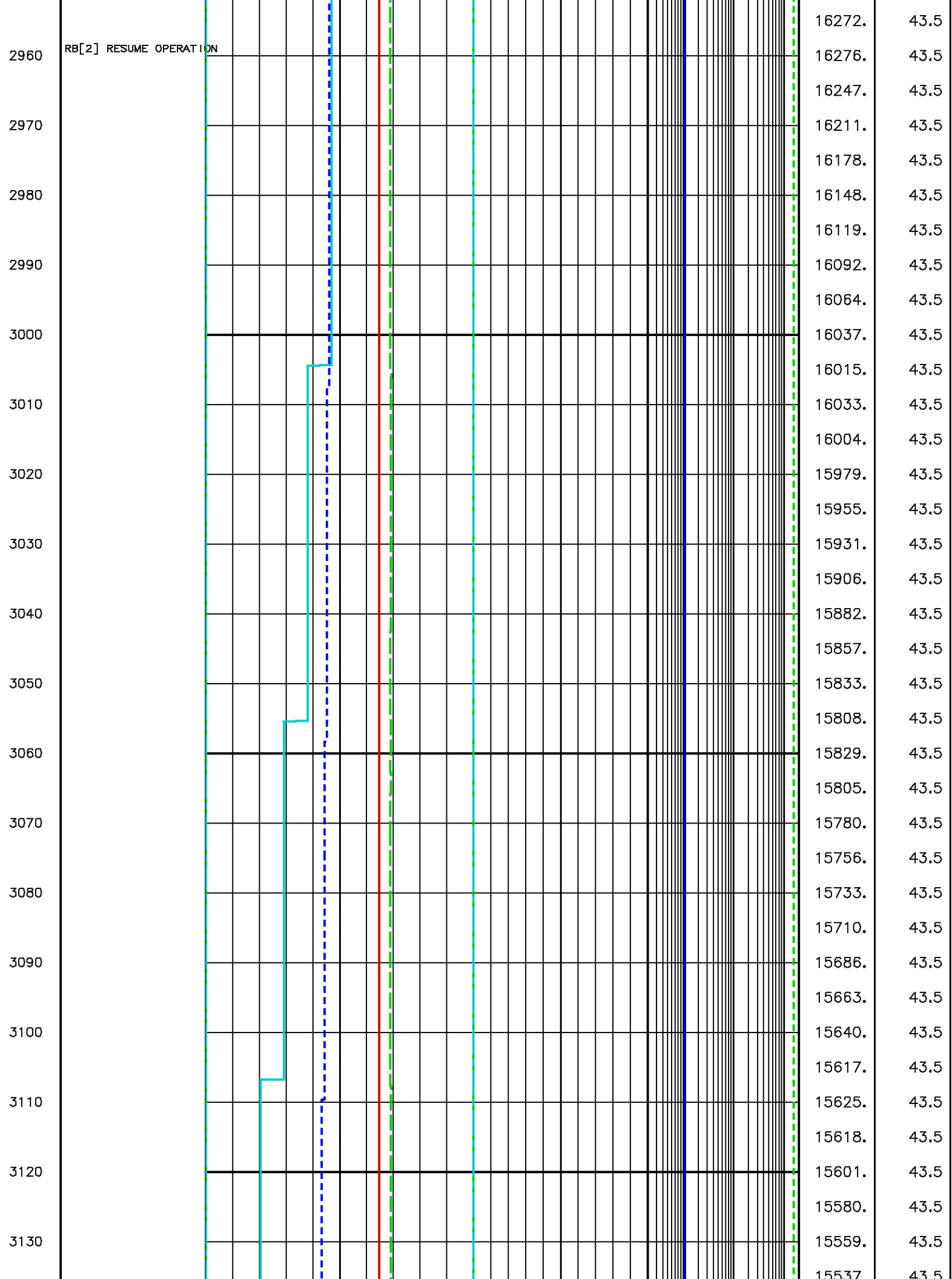


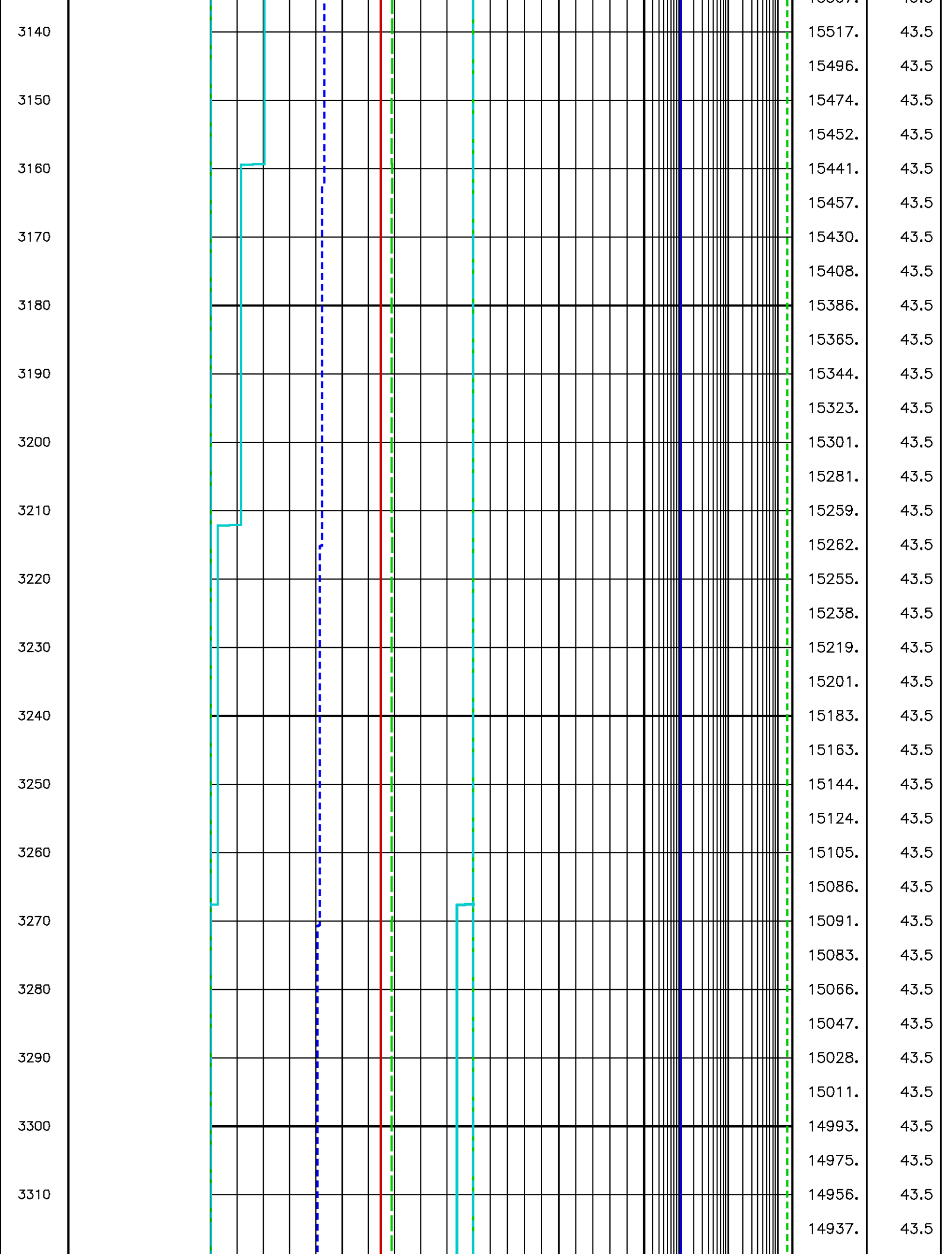


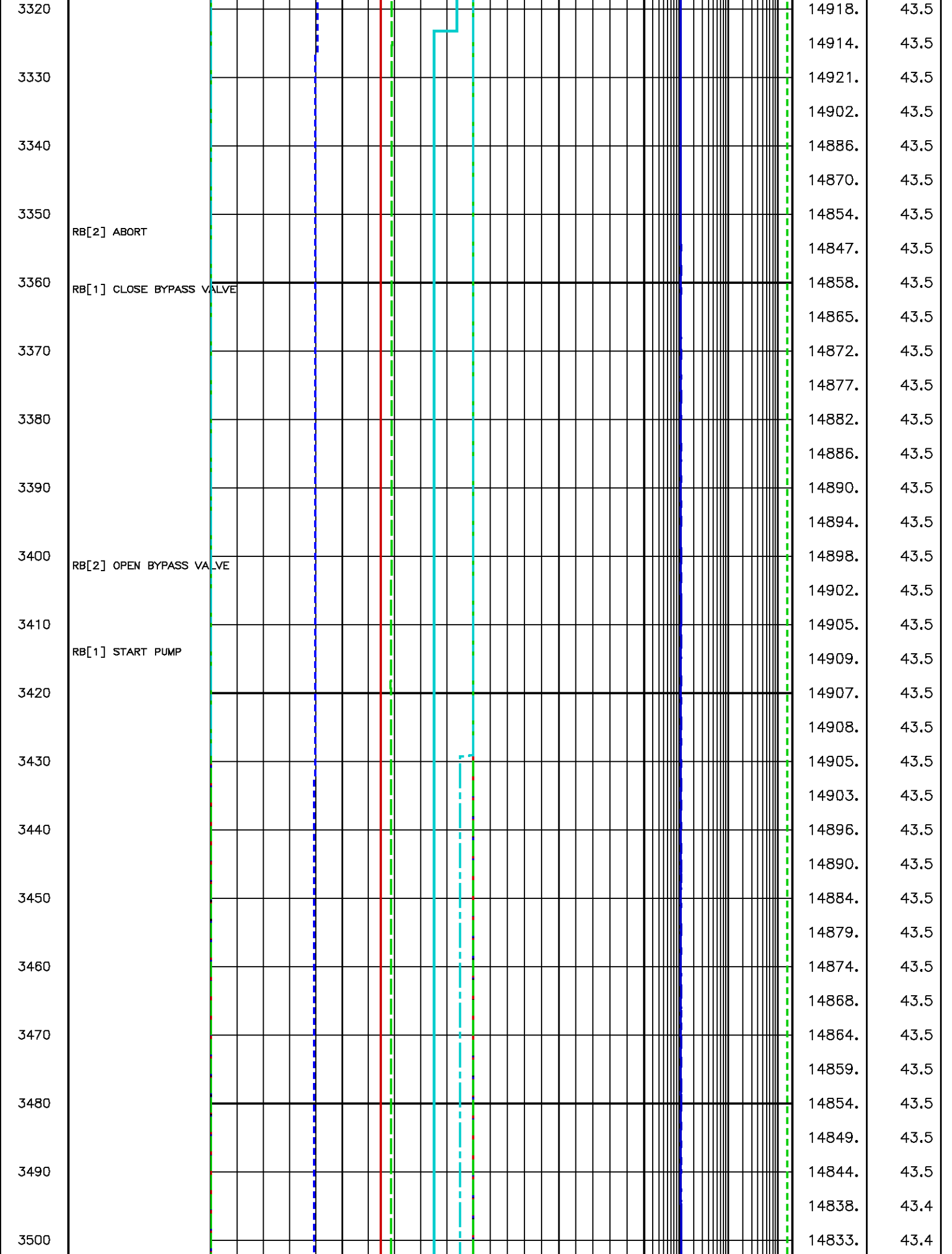


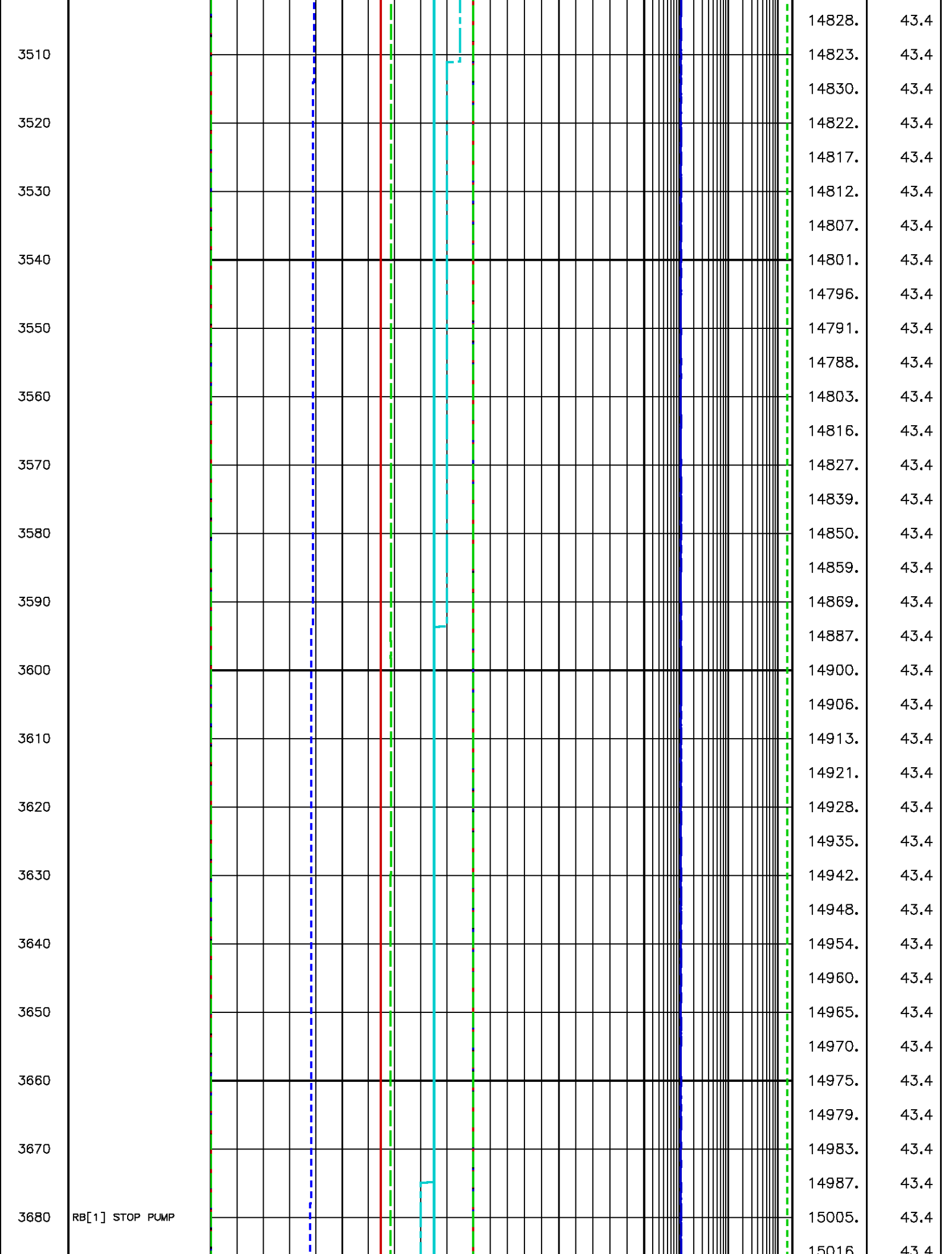




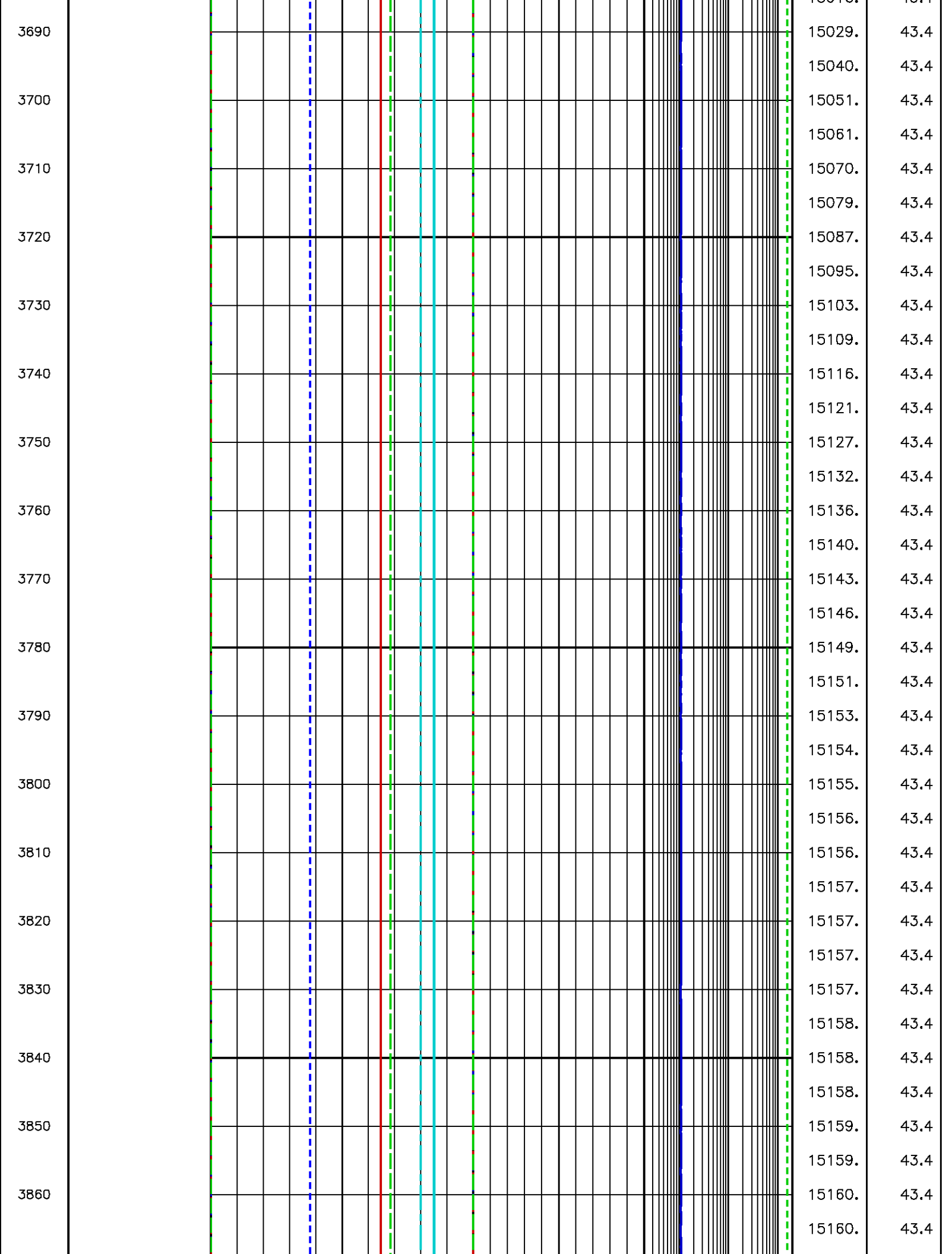


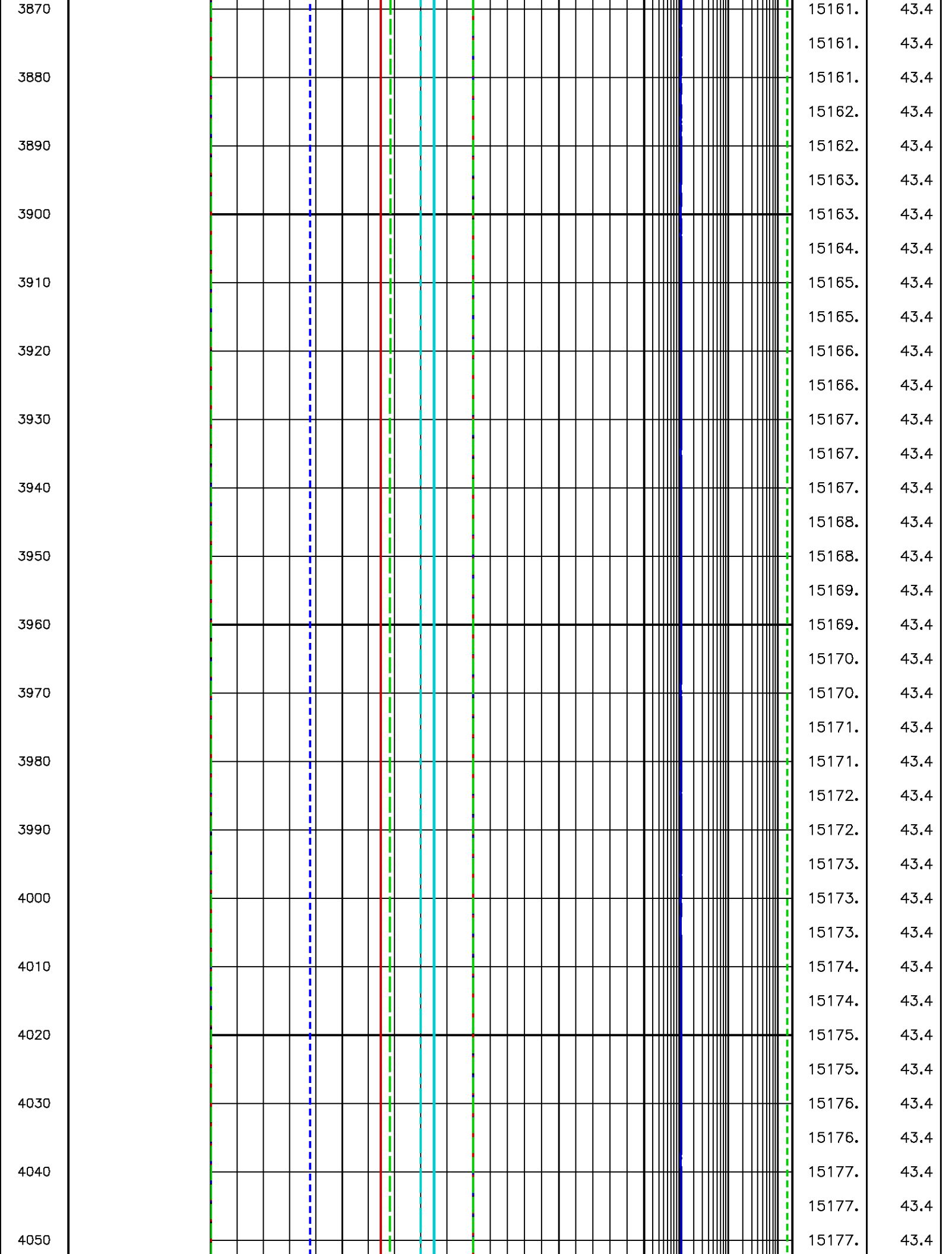


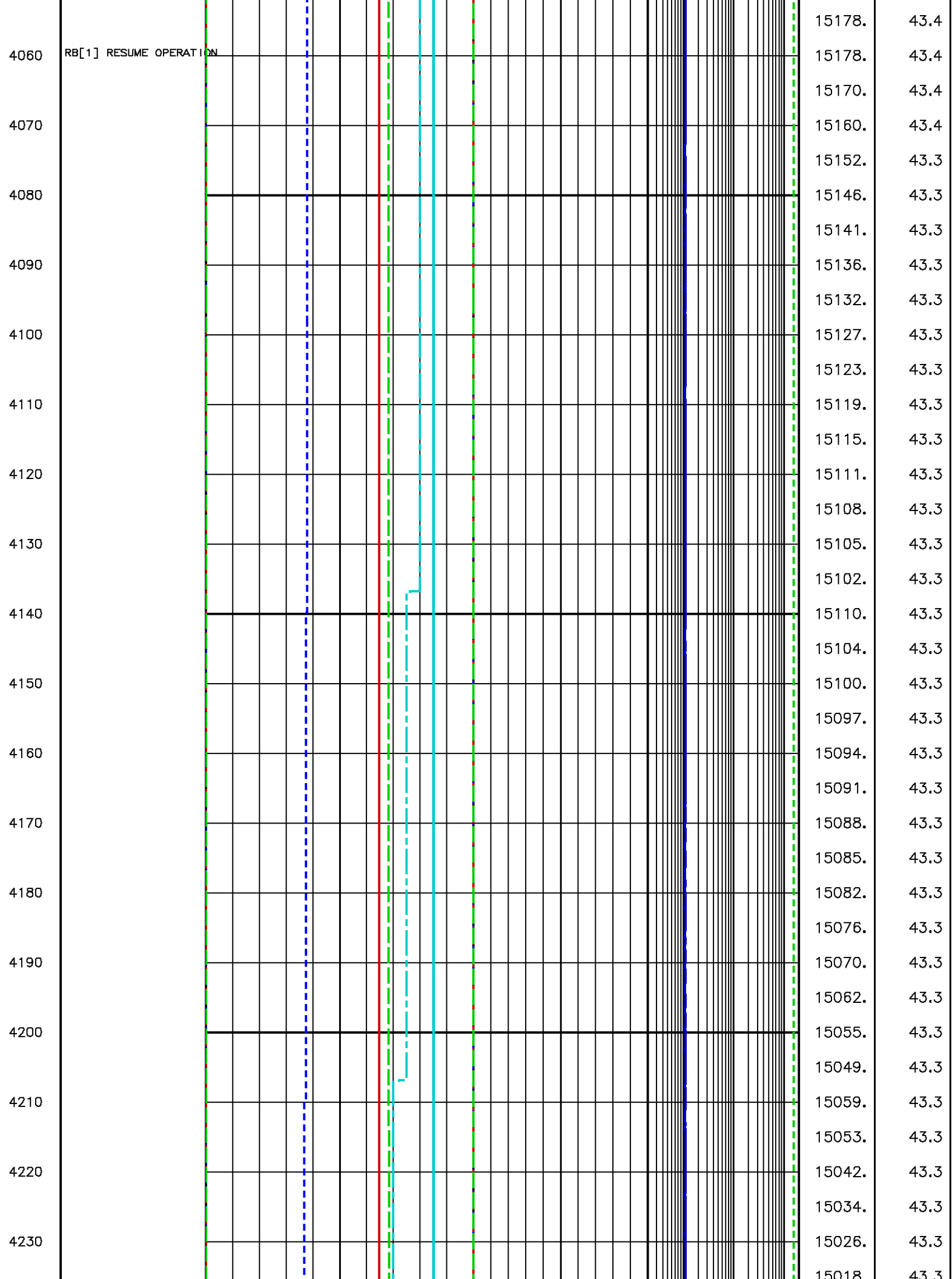


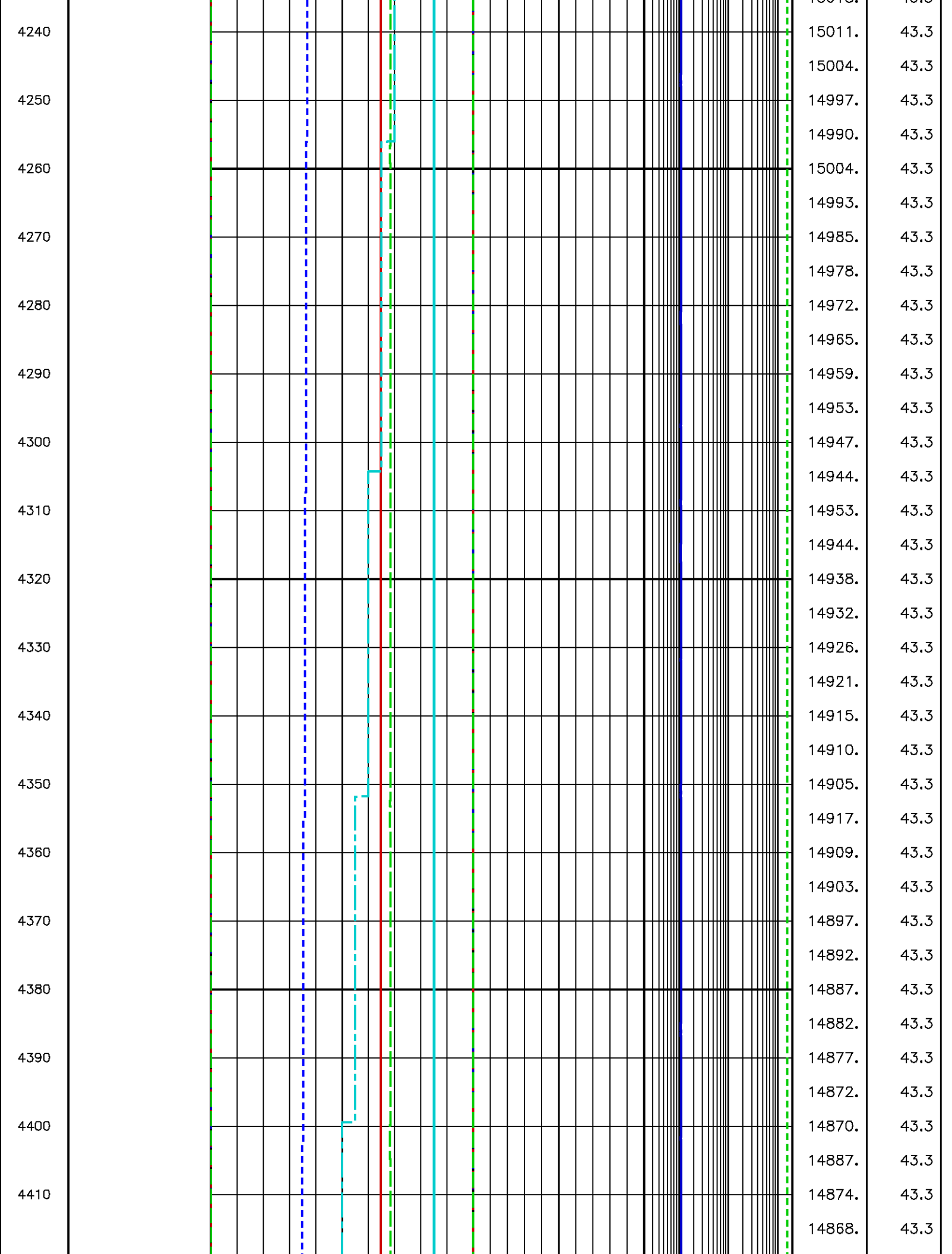


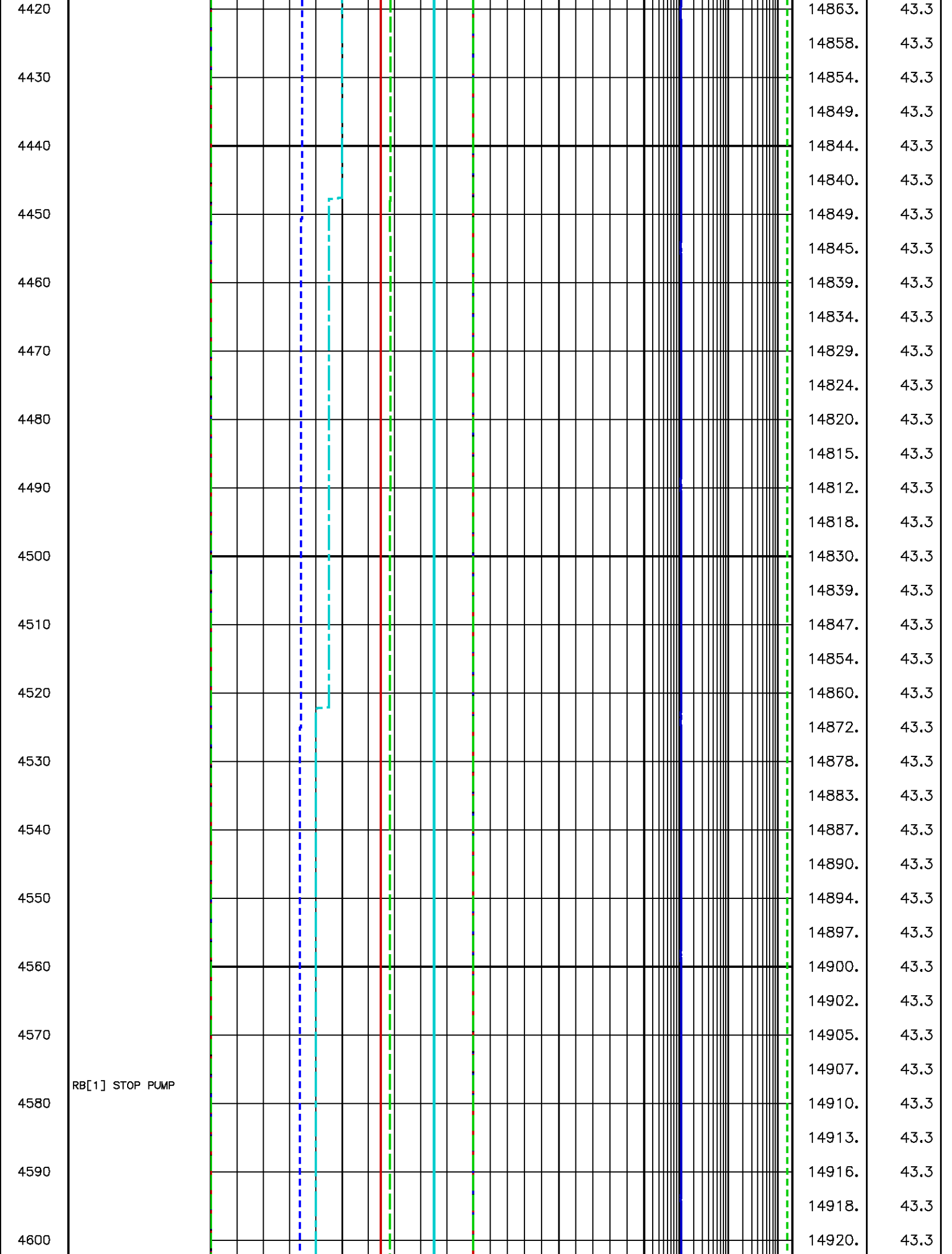


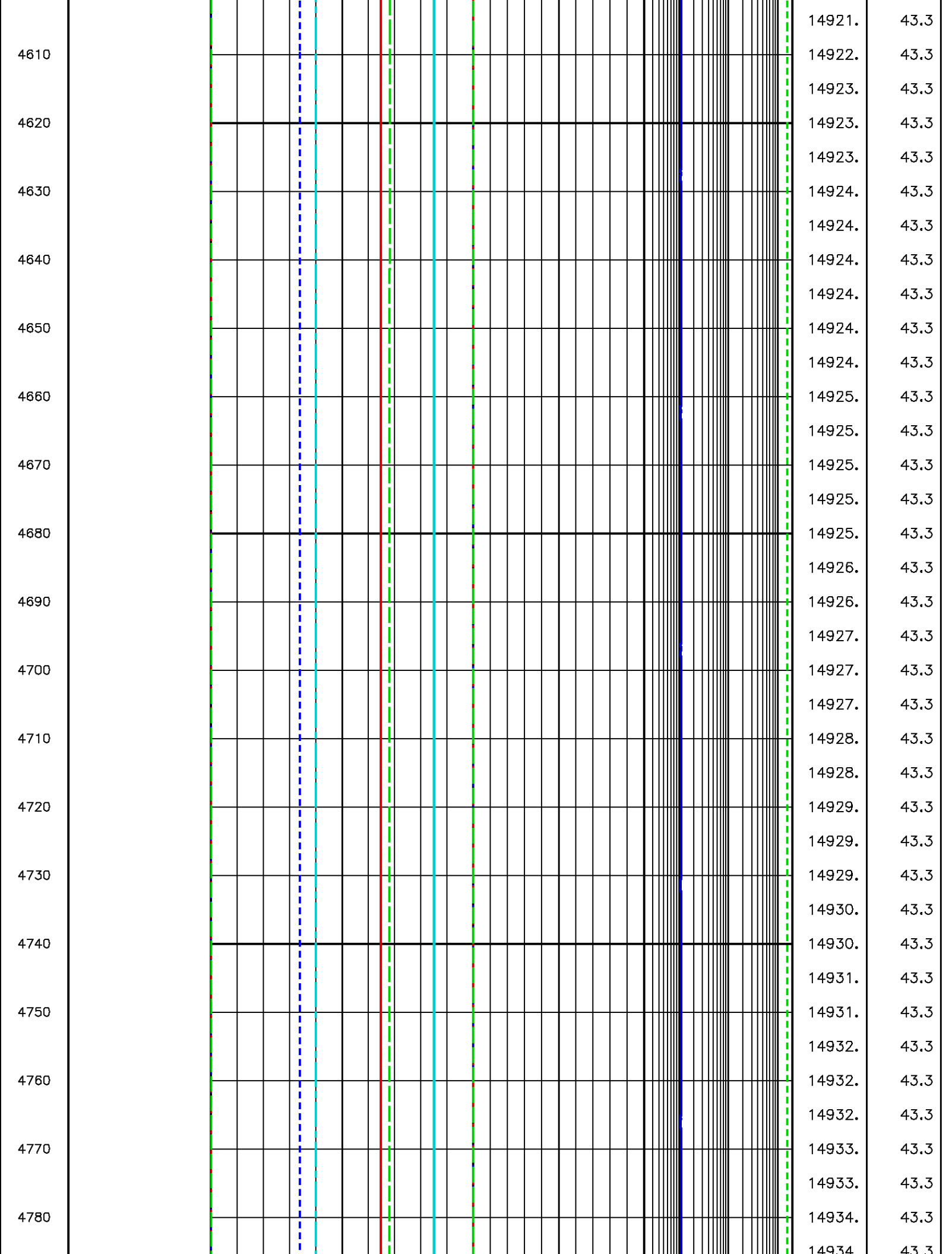


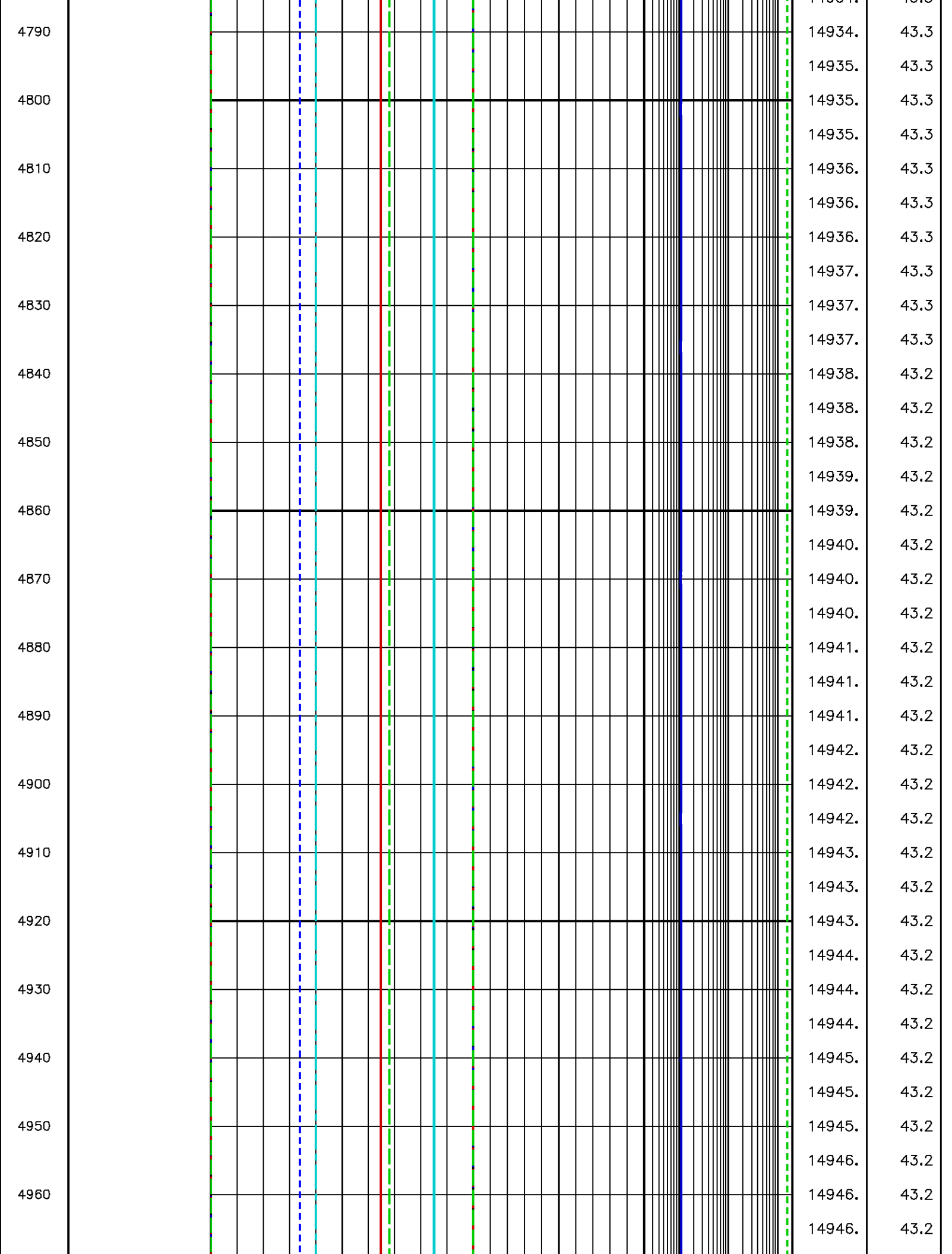


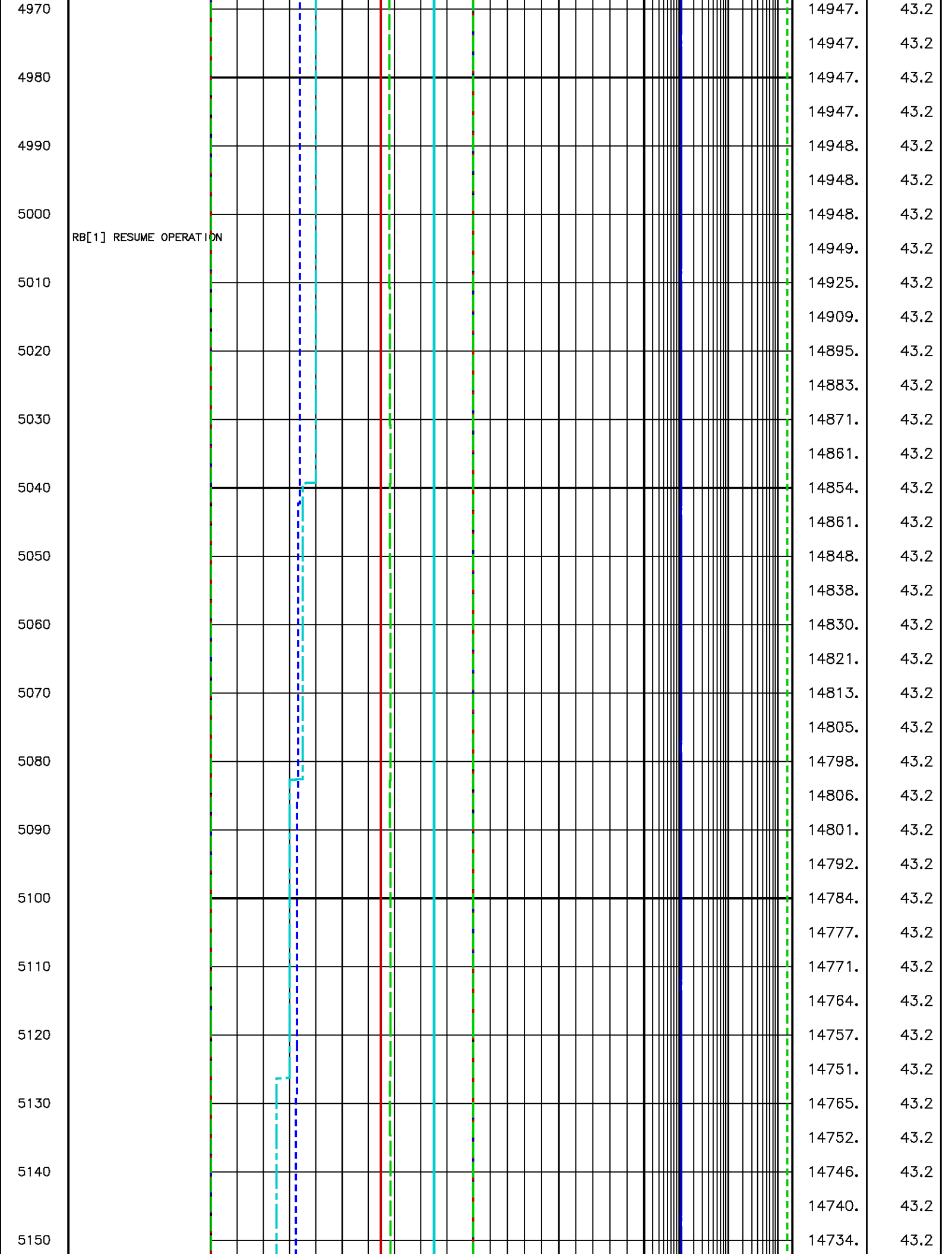




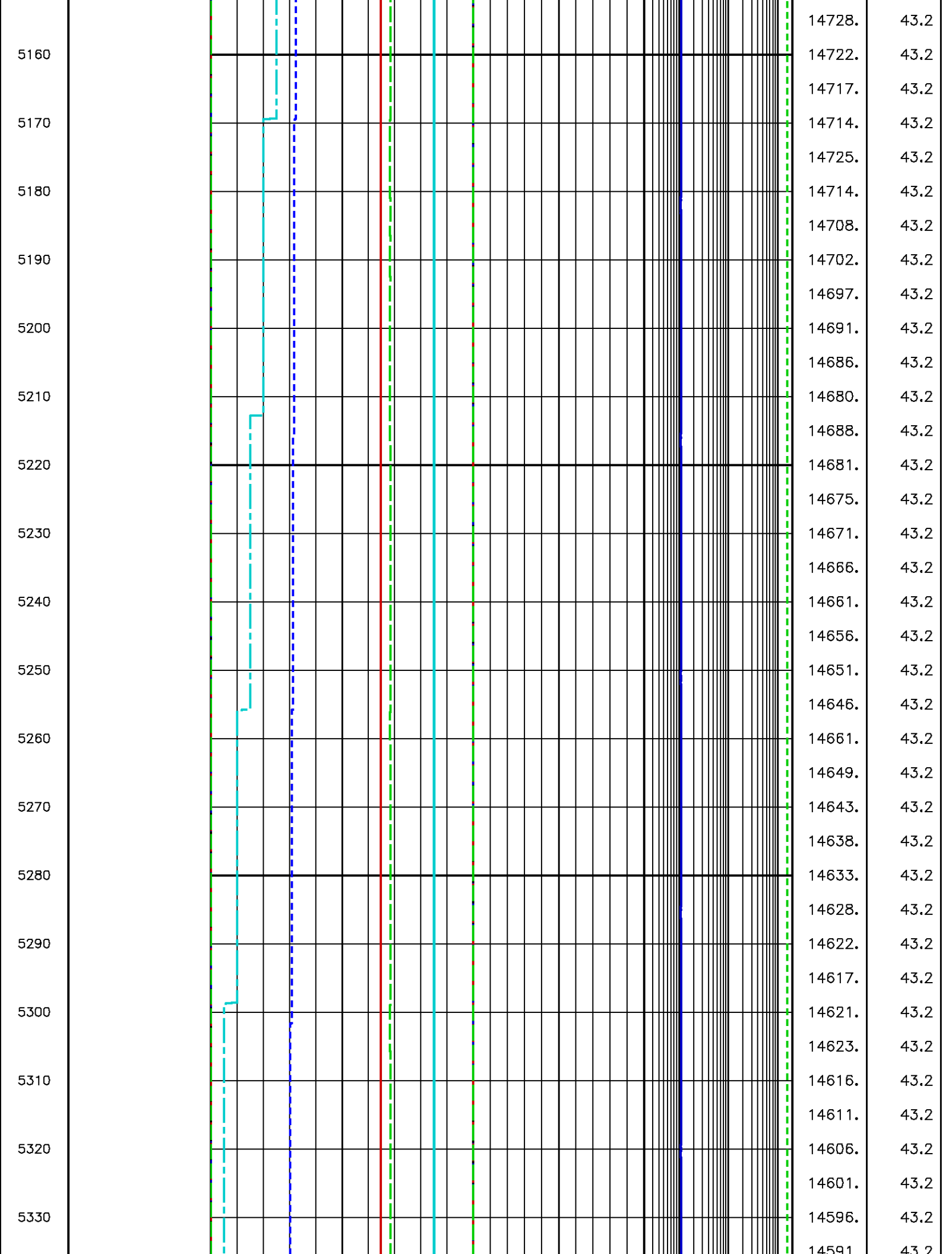


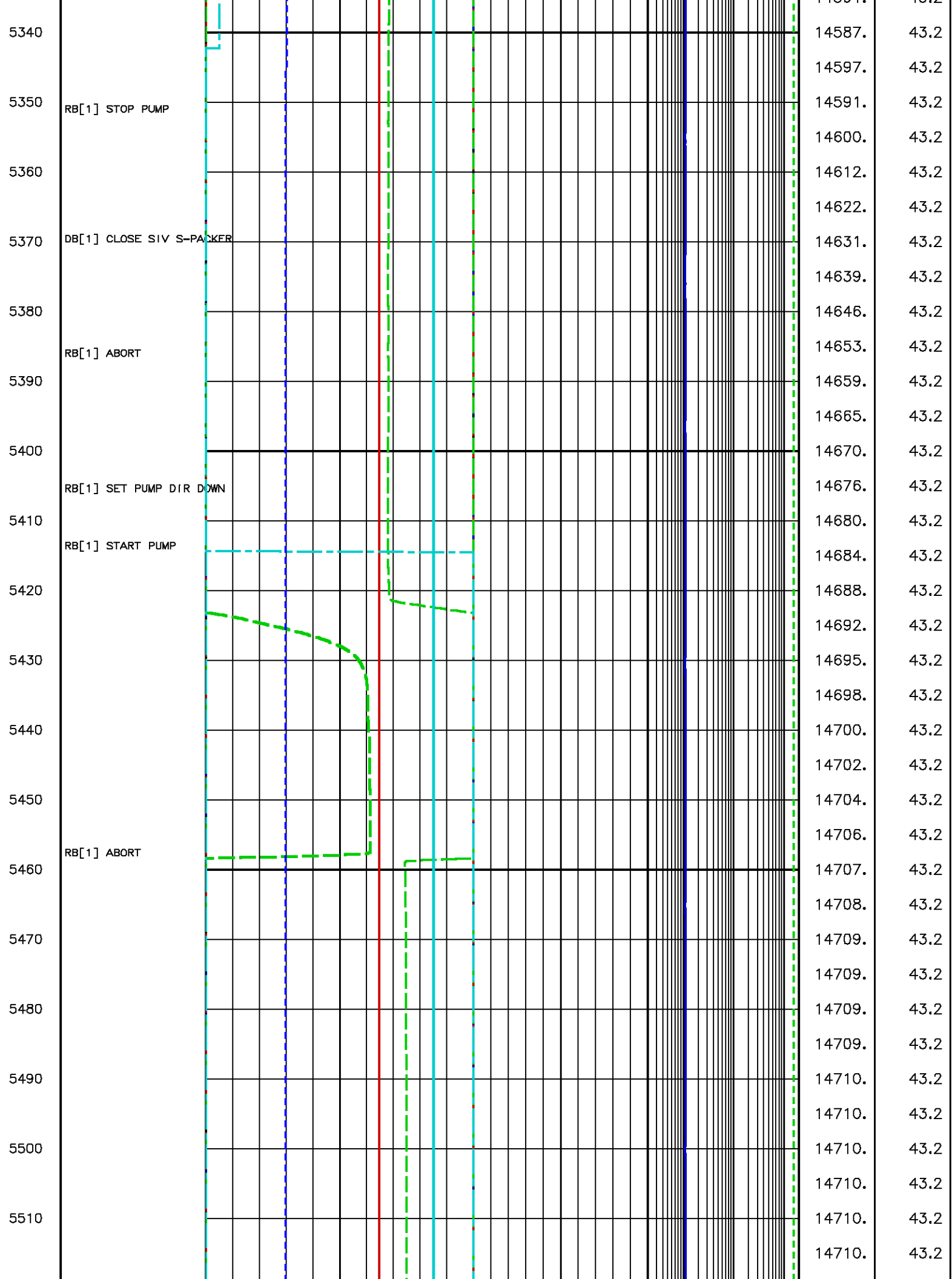


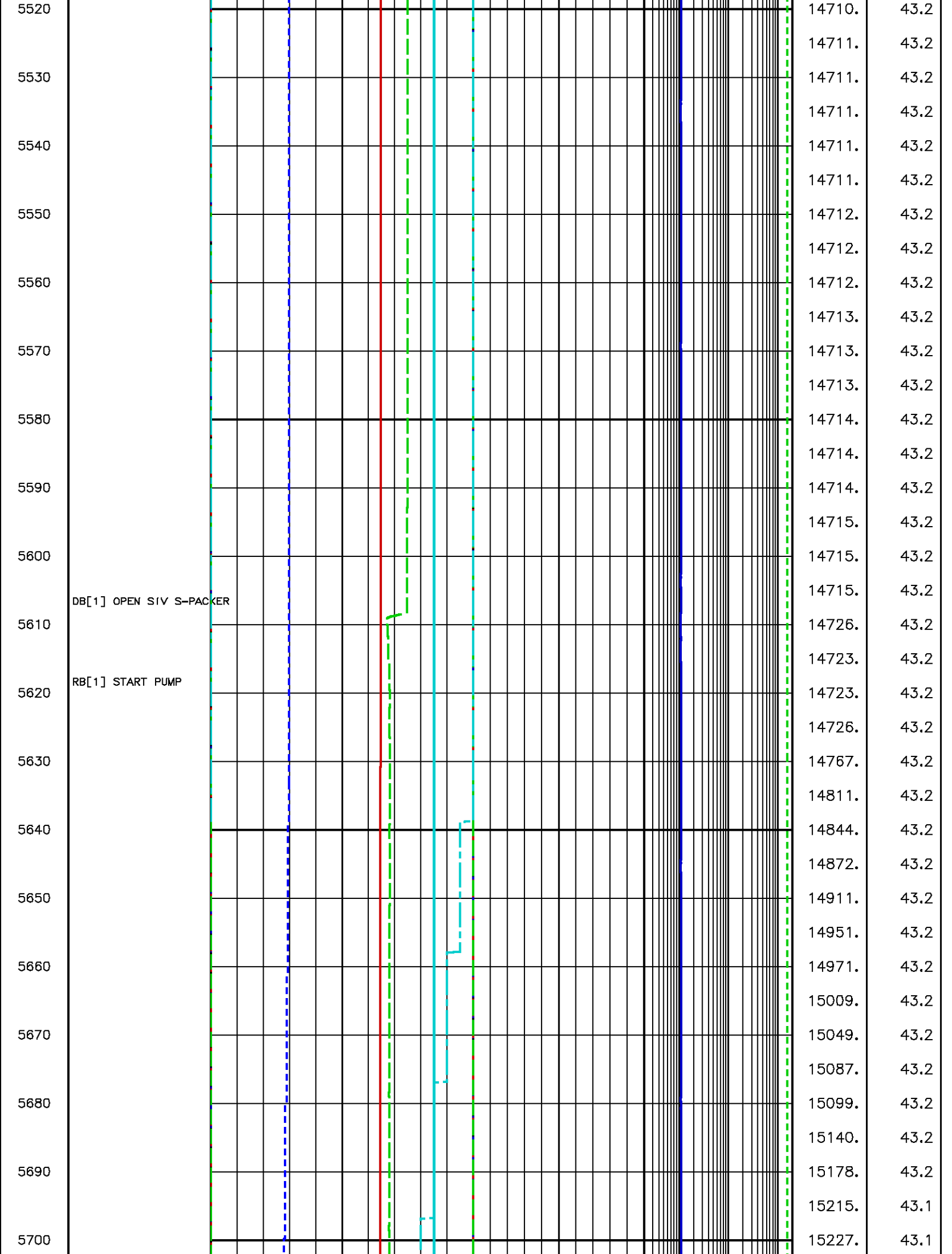


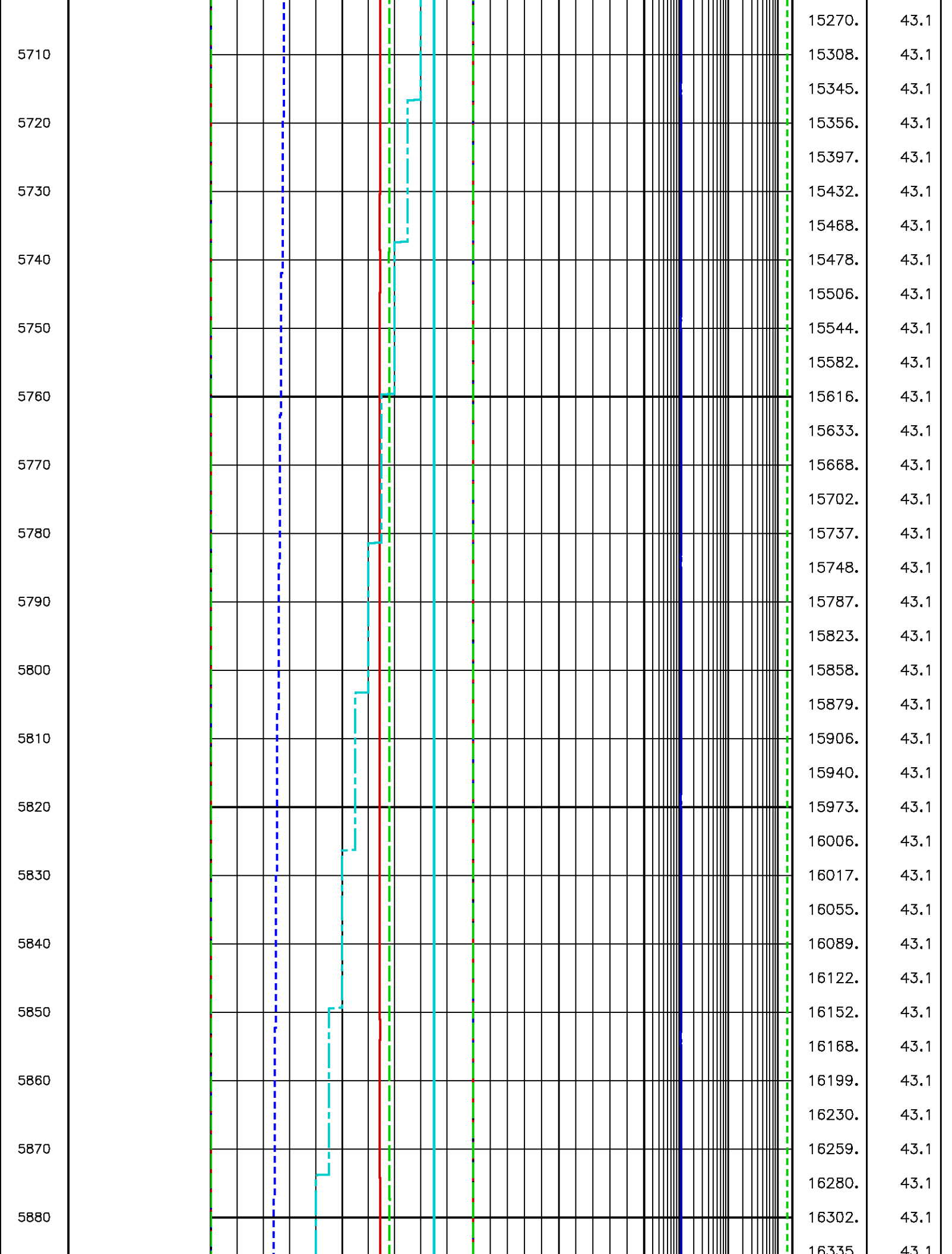


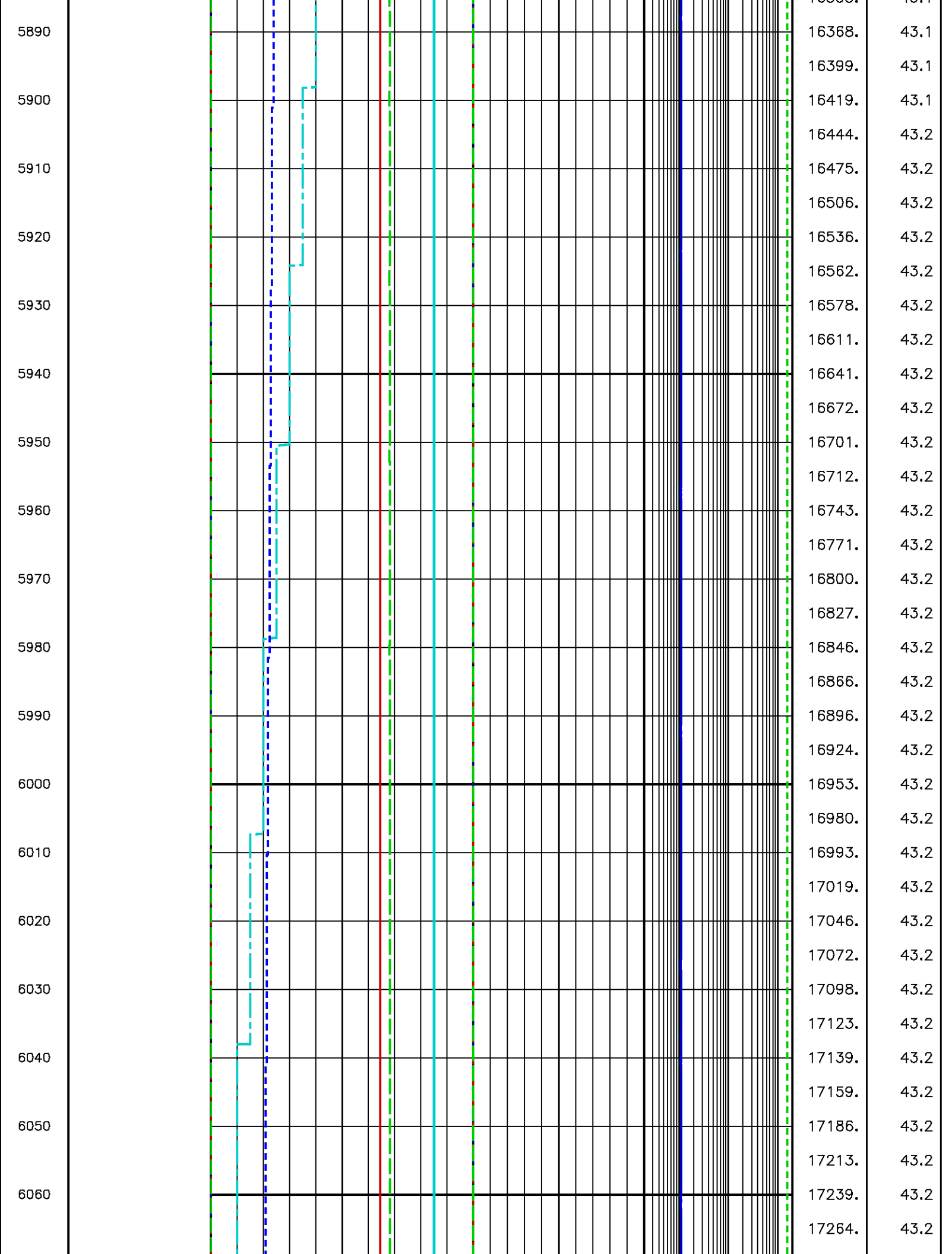


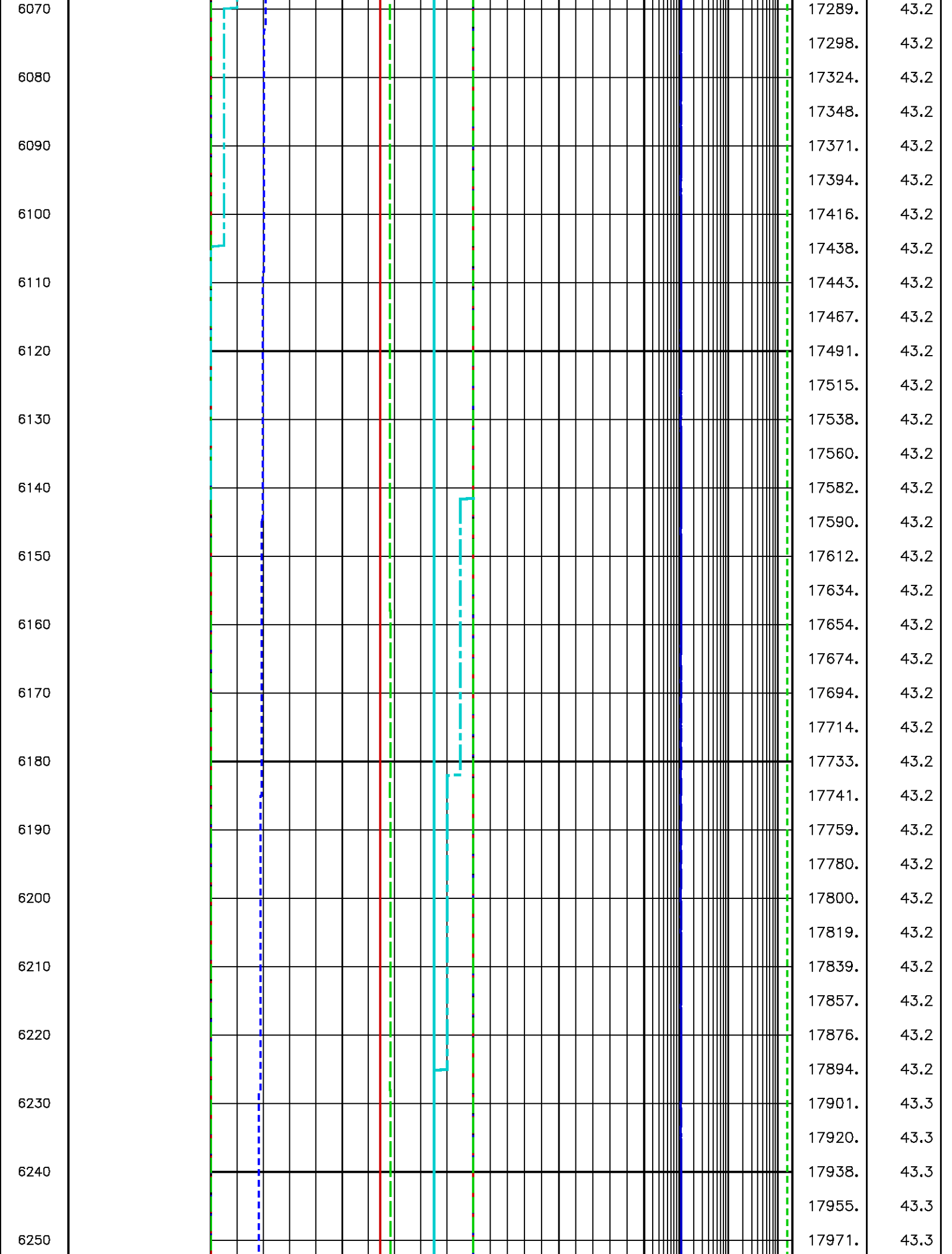


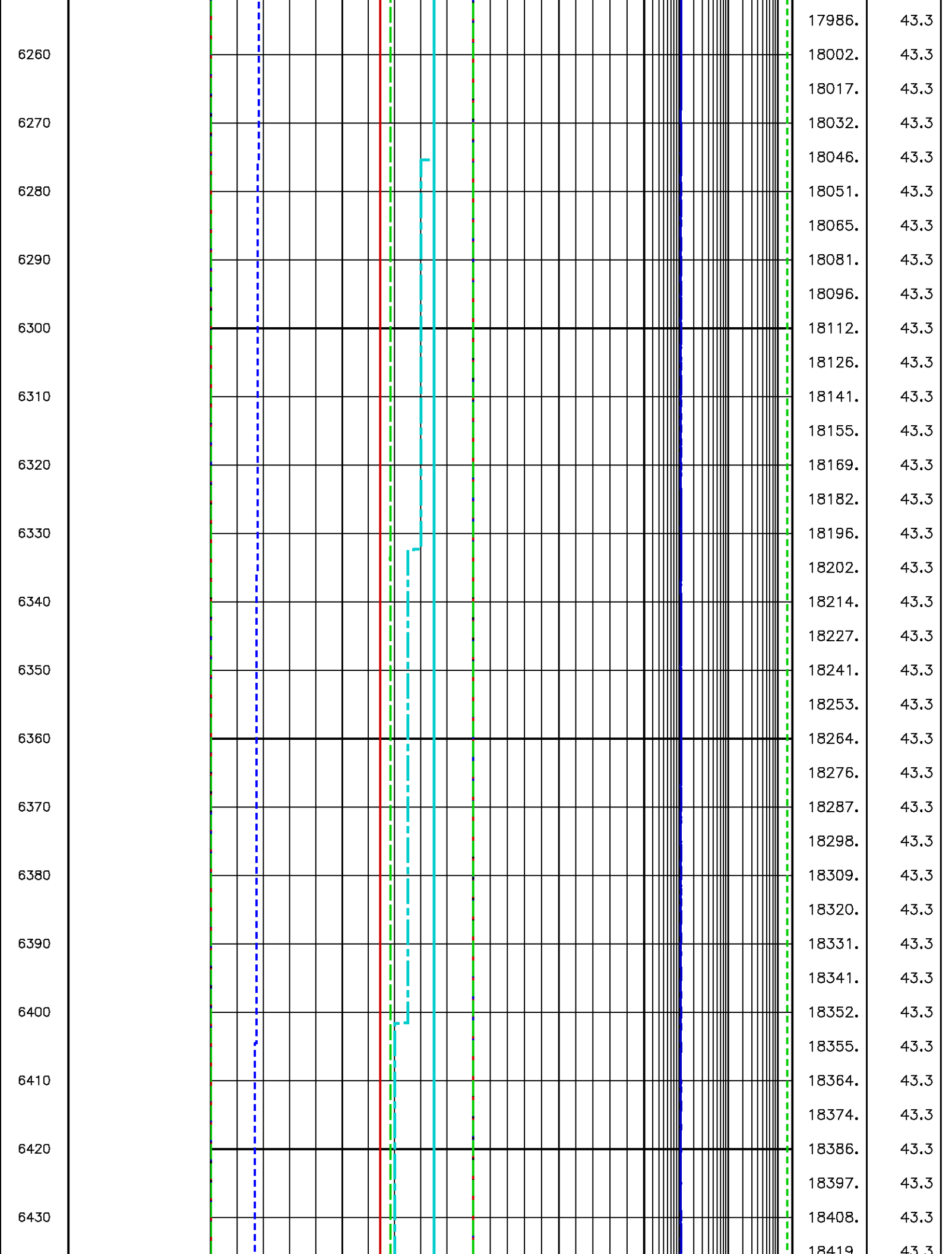


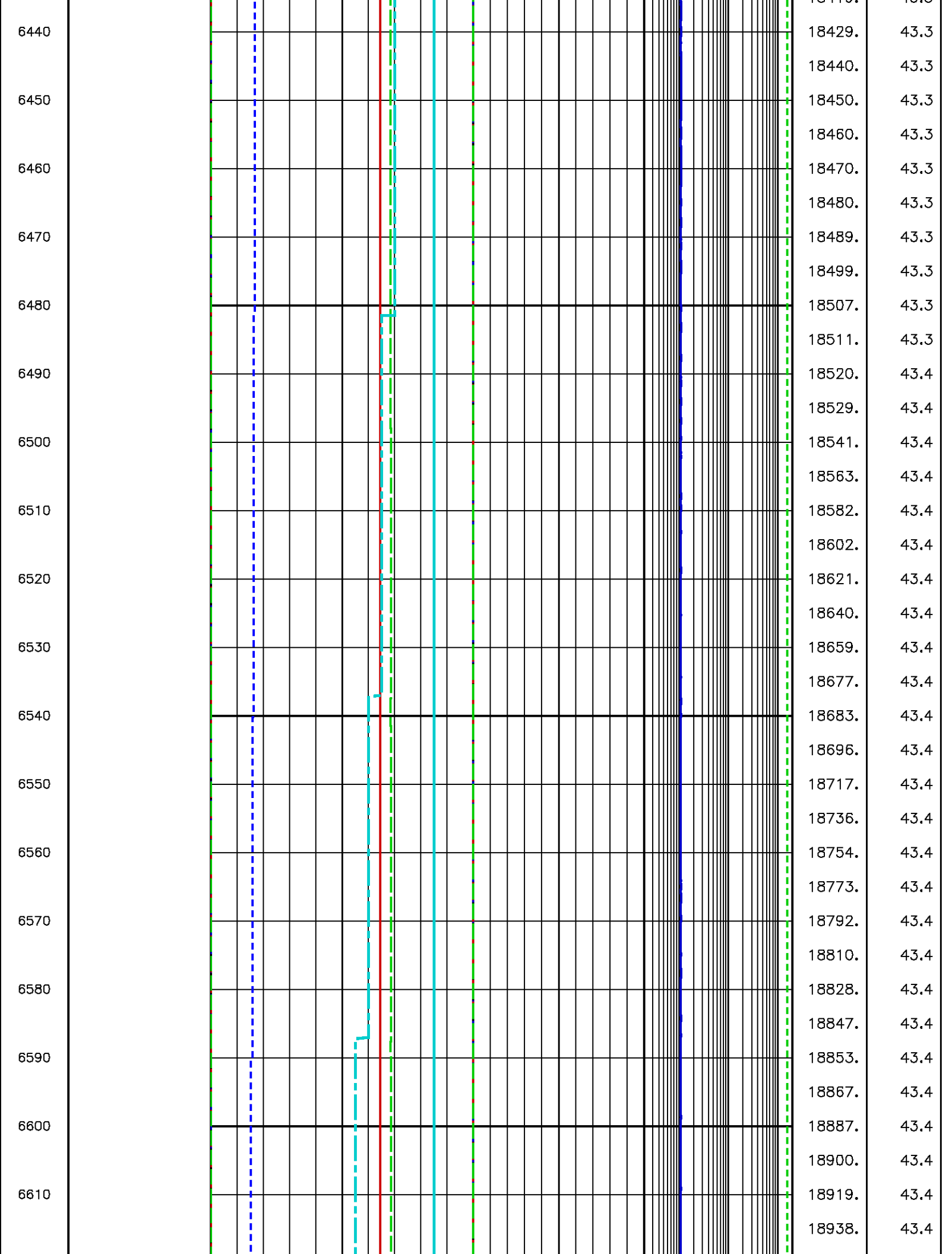




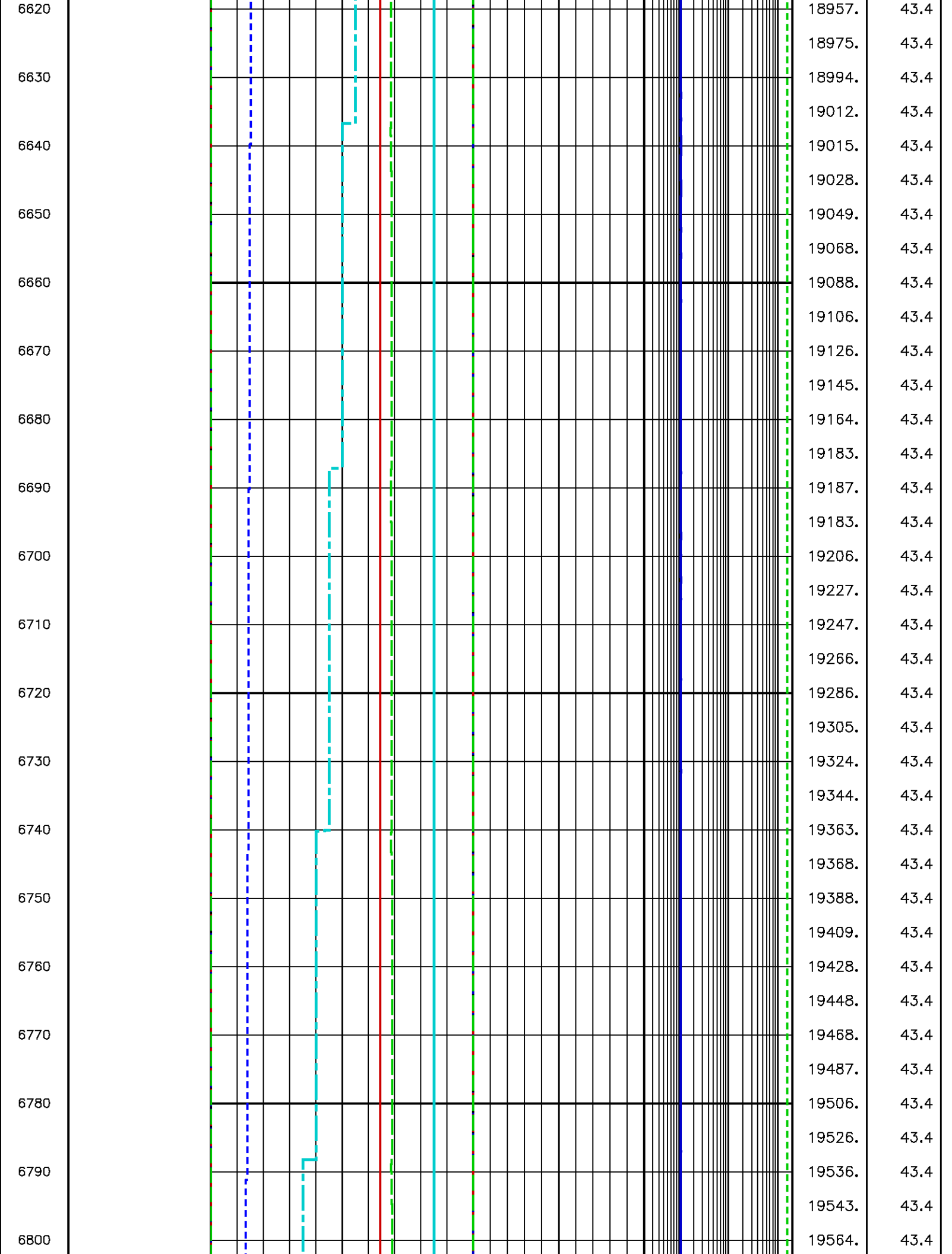


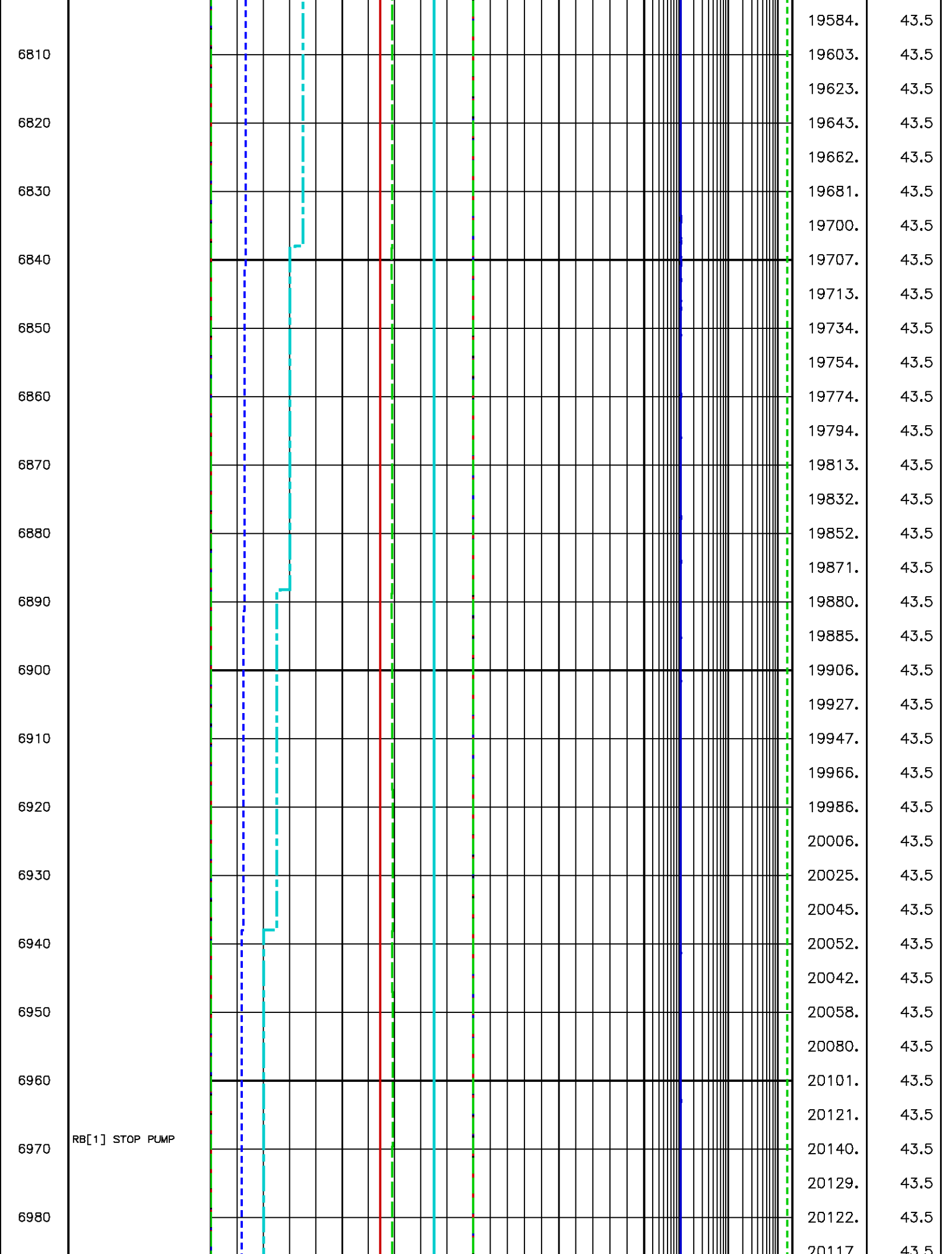




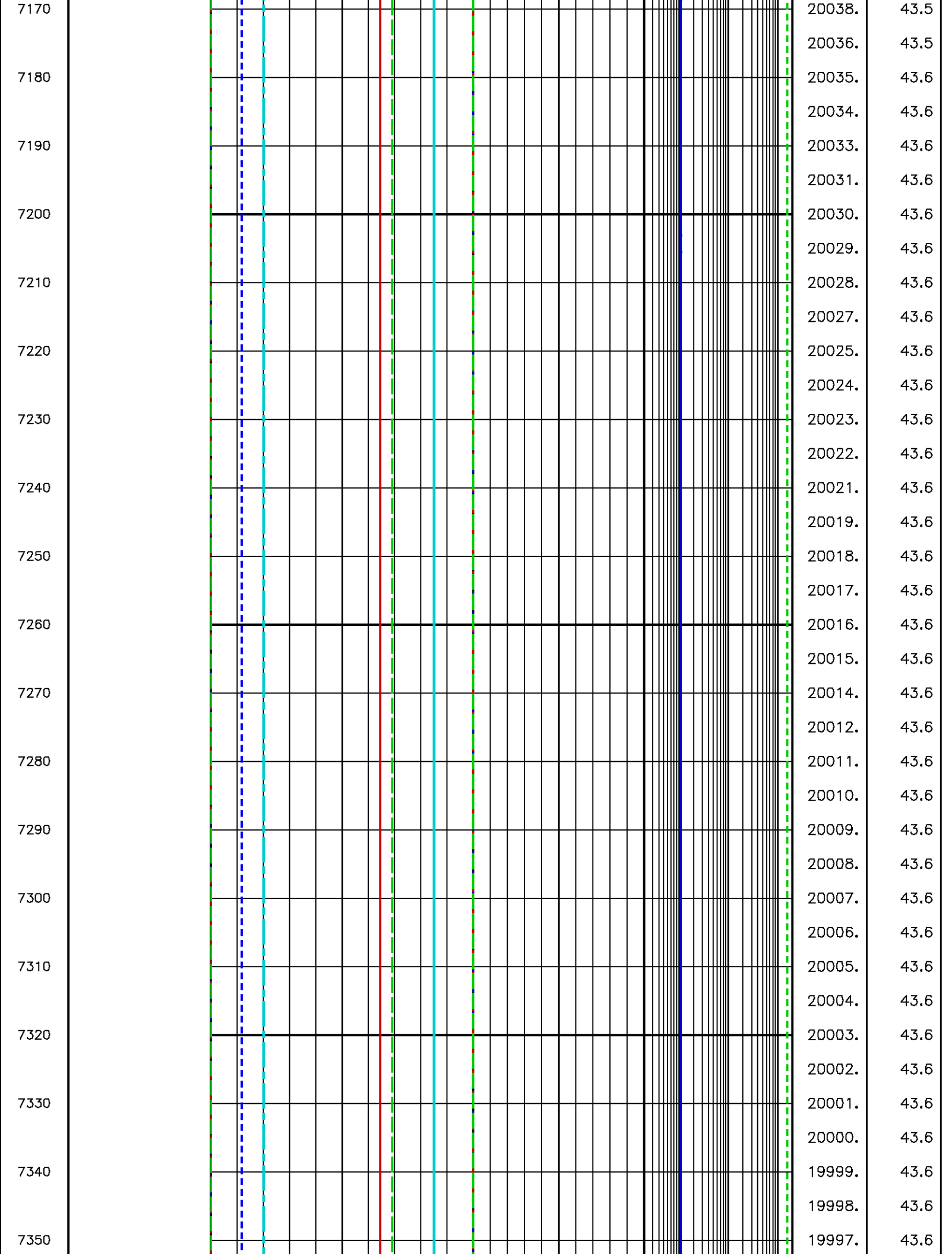


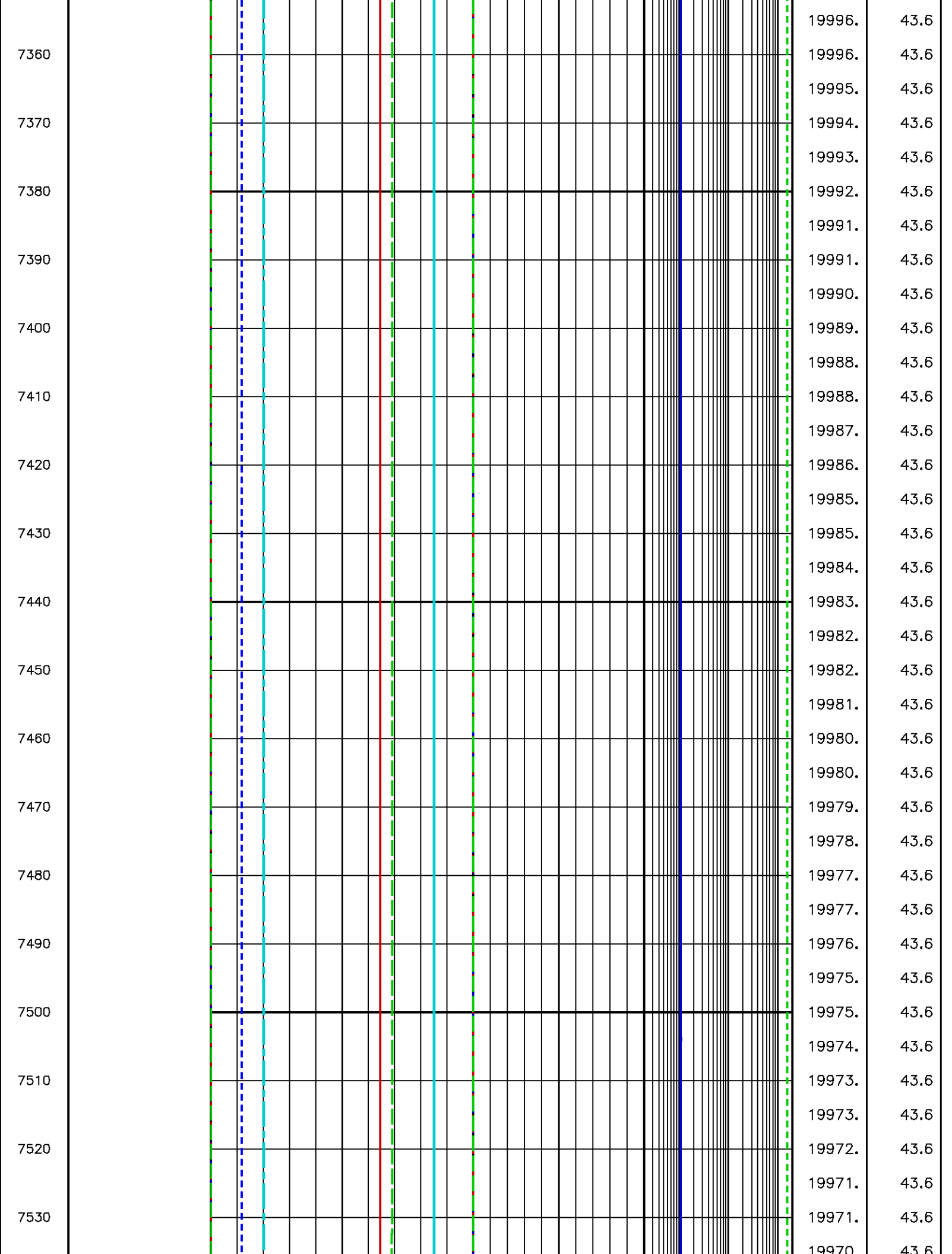


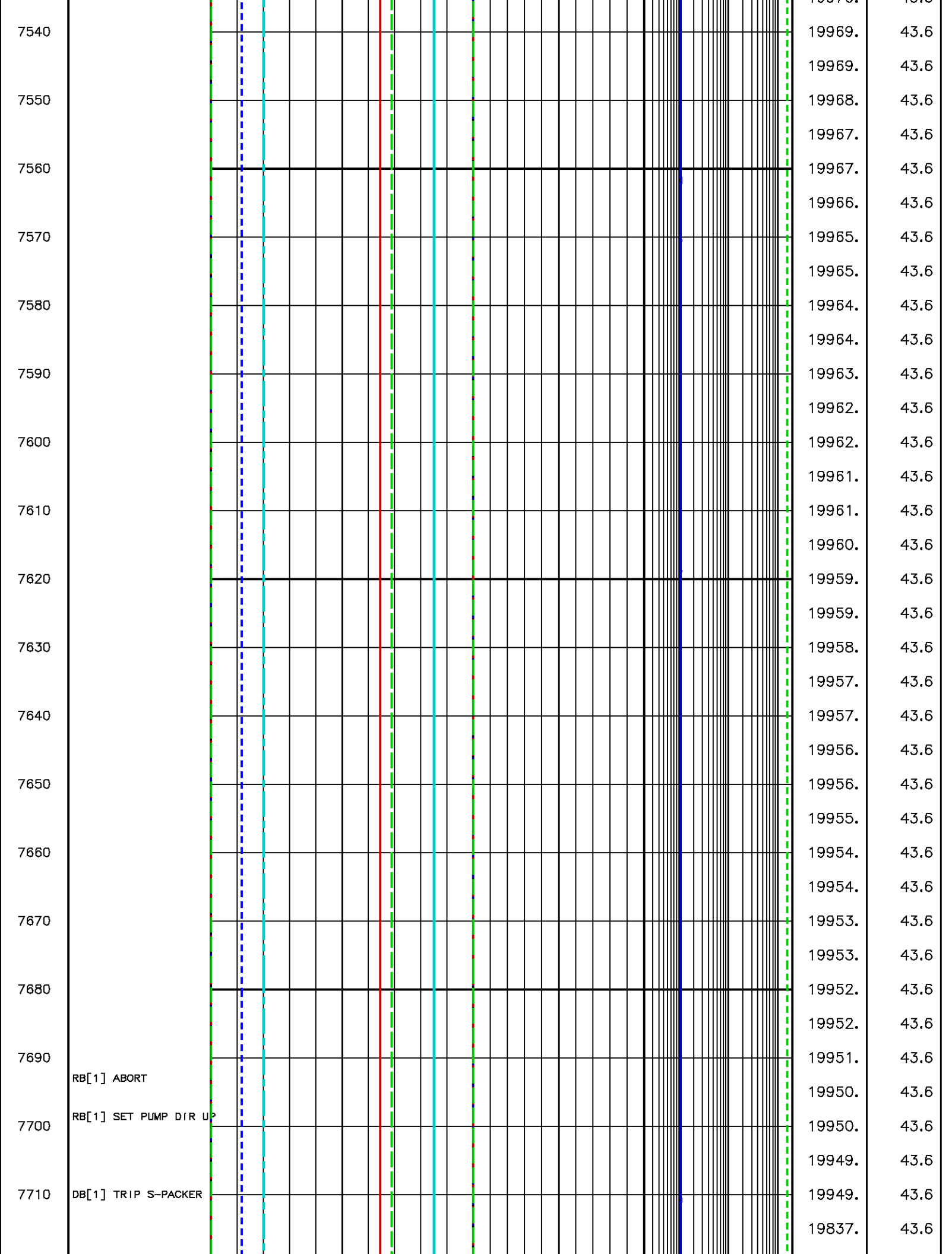


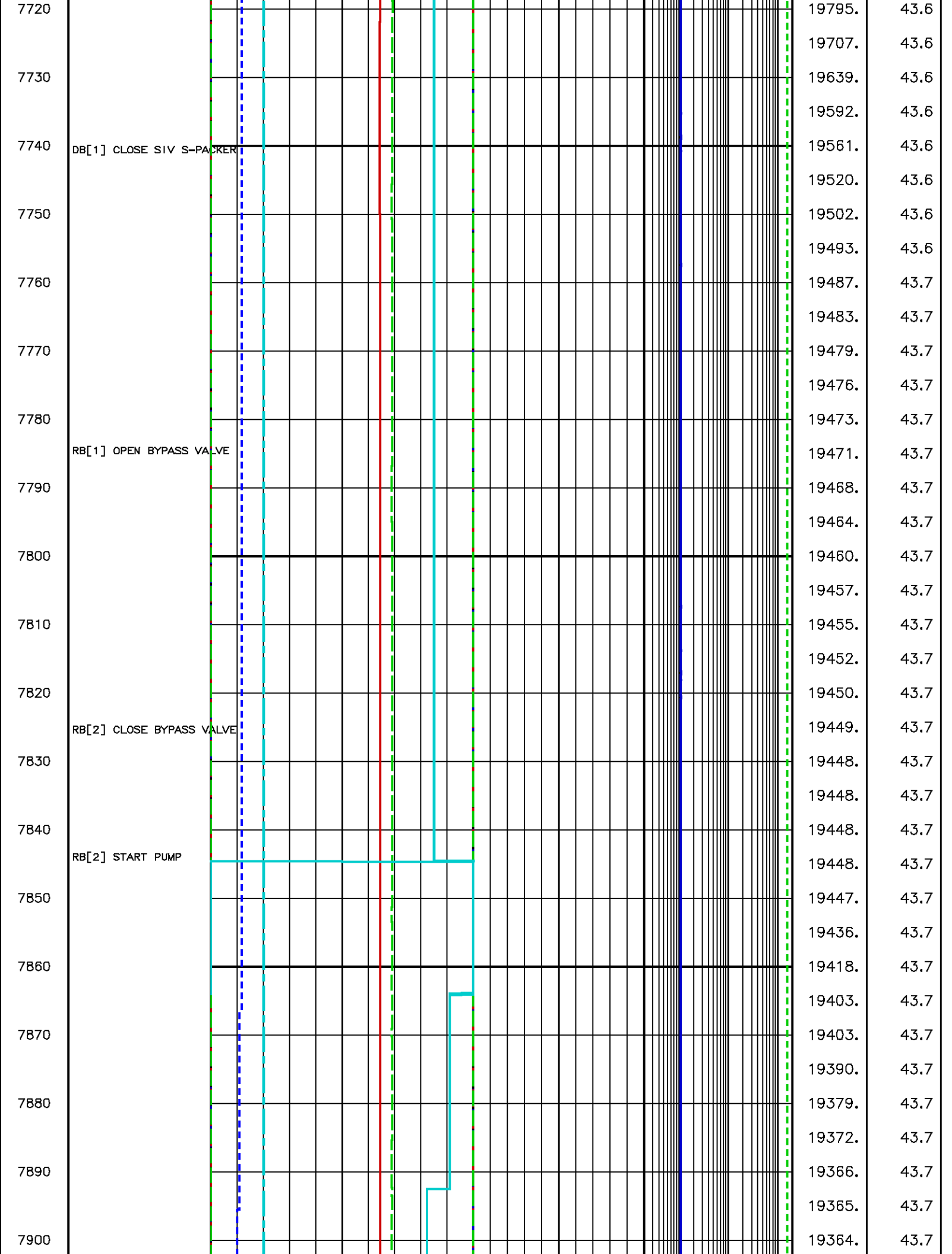


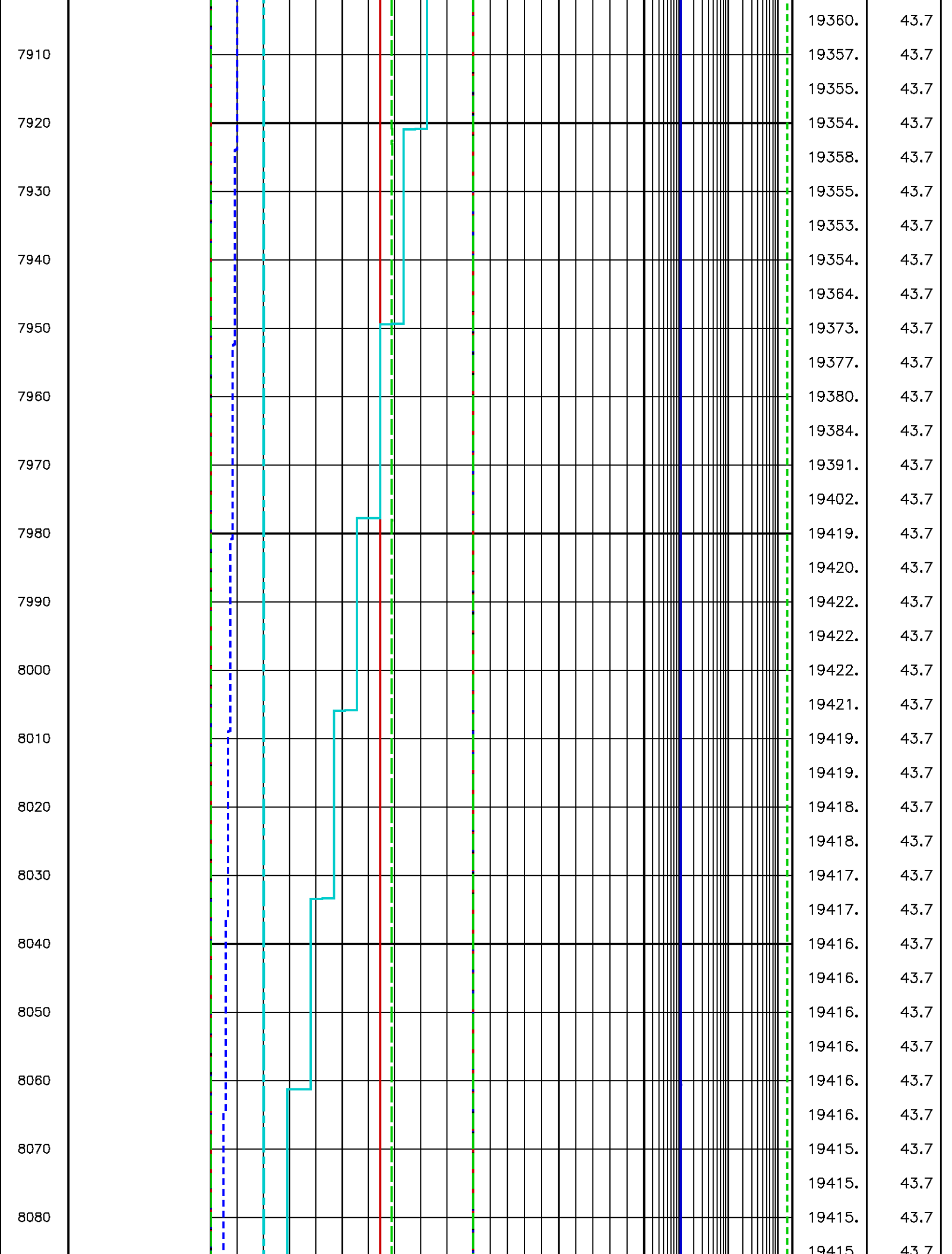
[illegible]



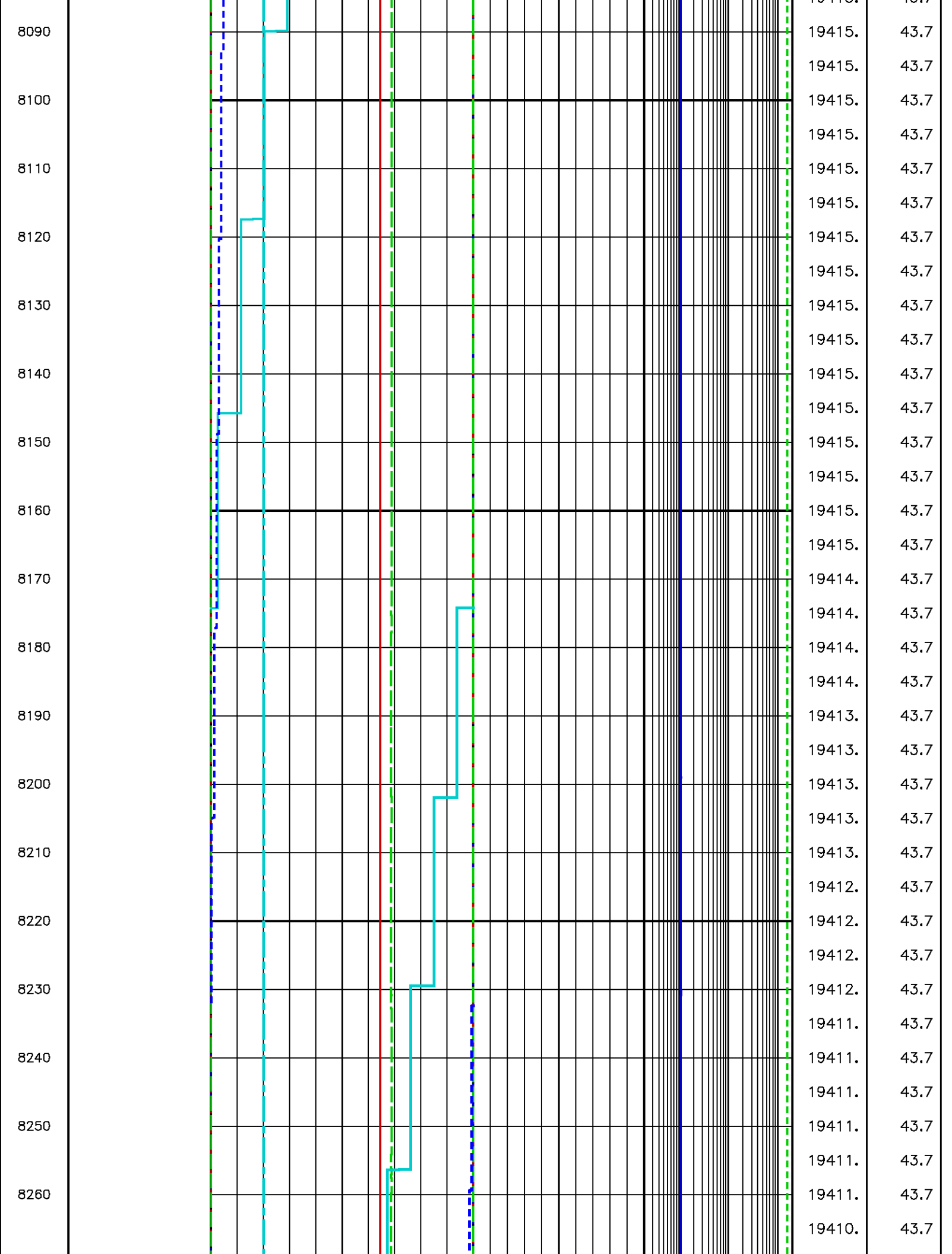


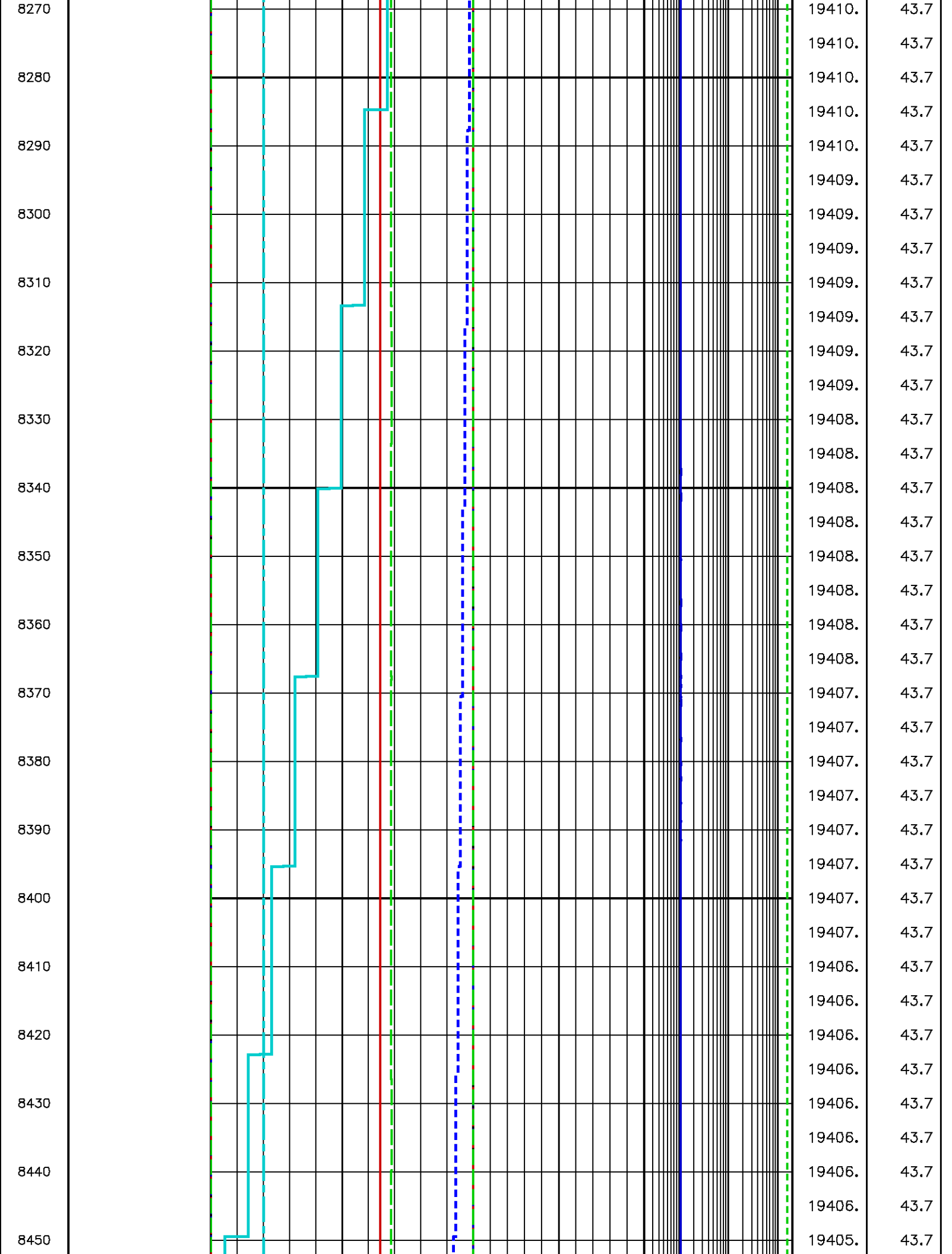


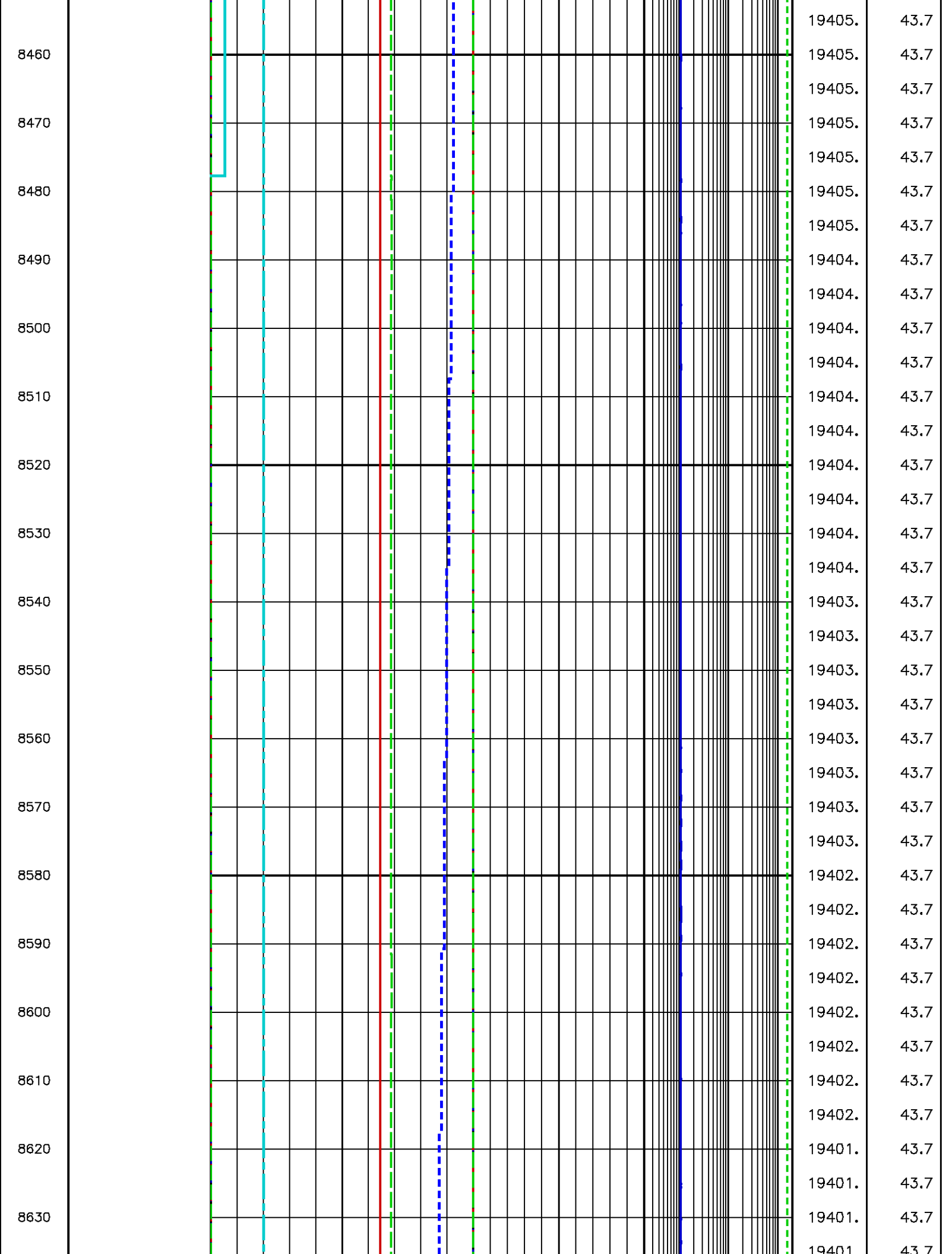


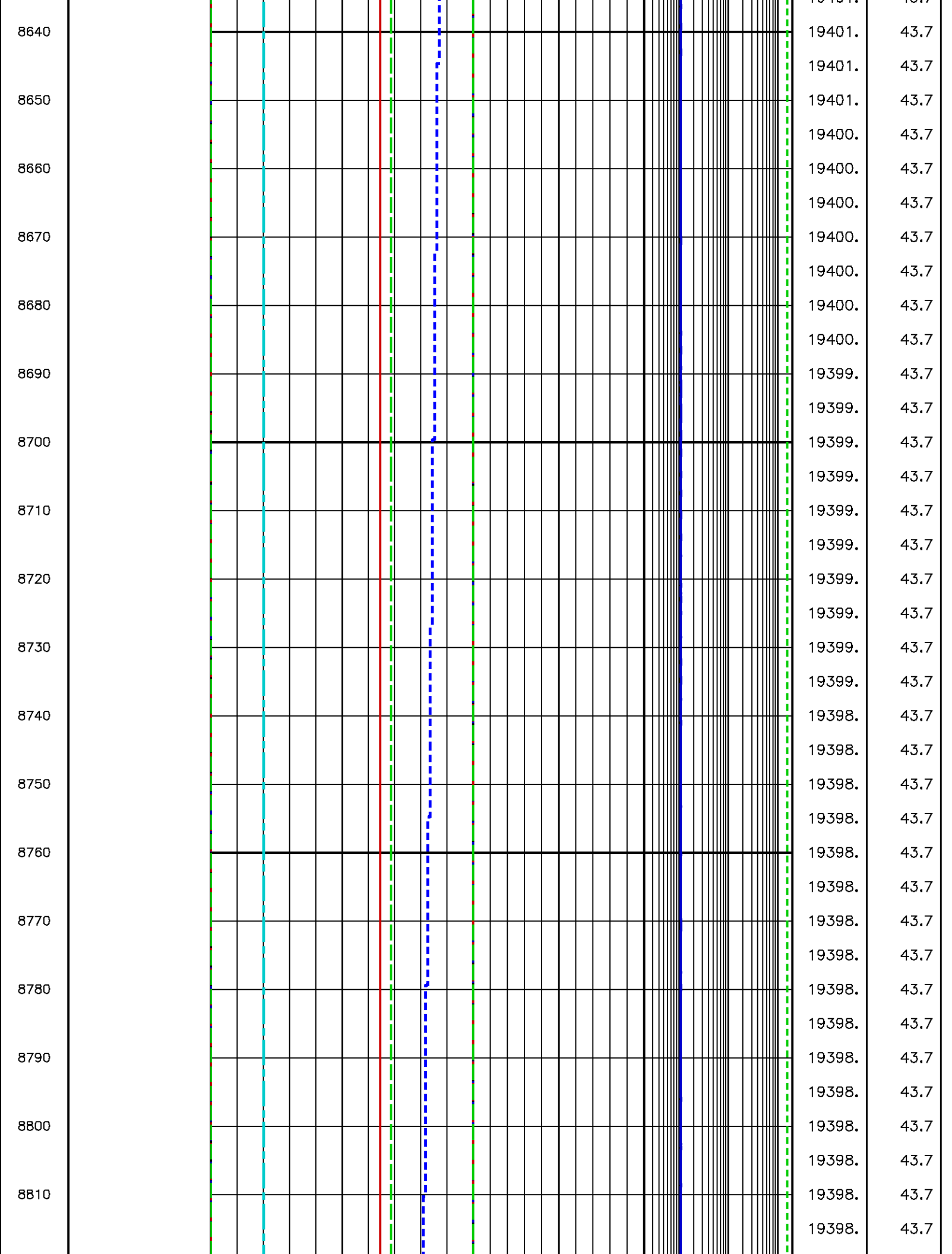


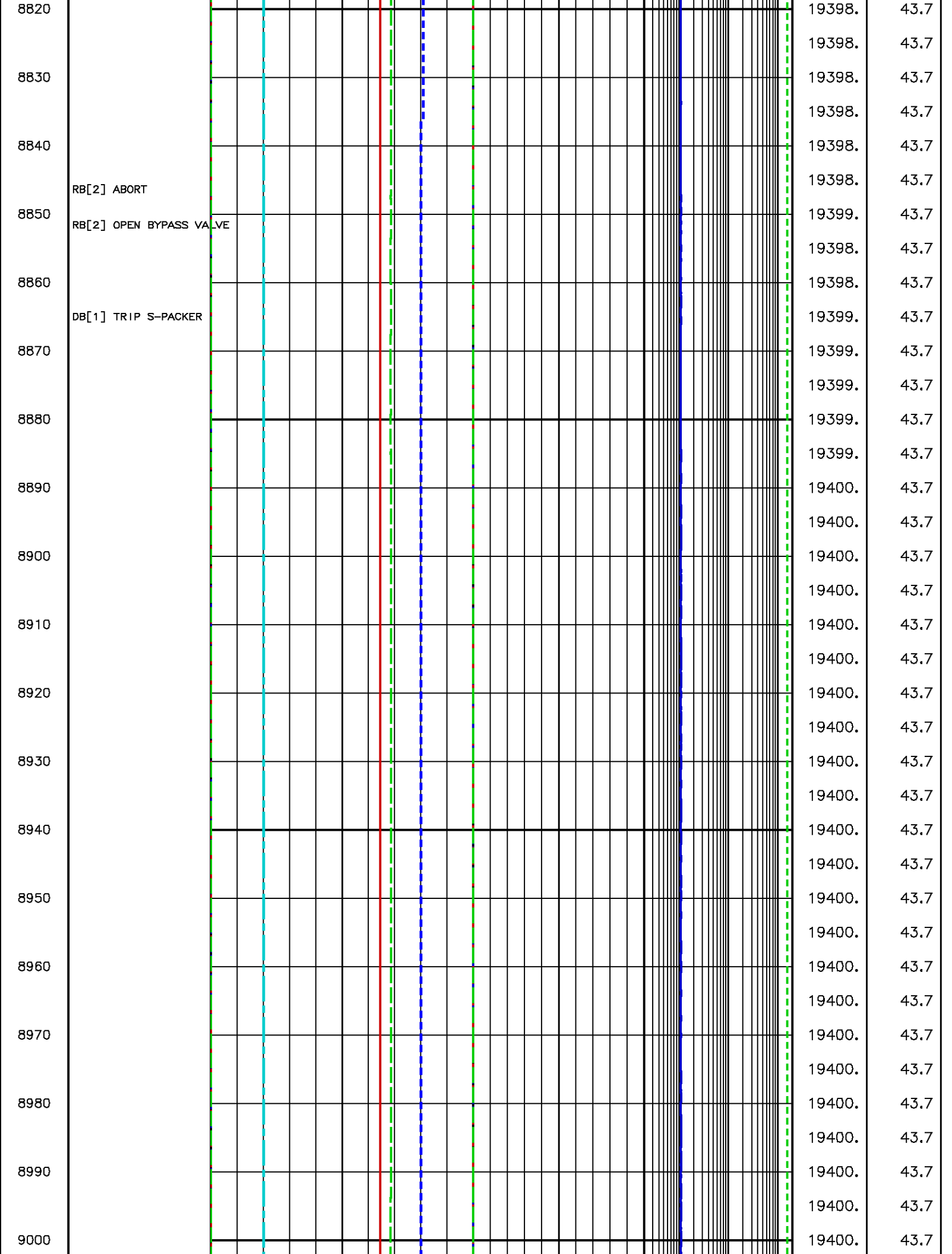














# PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/nalcor\_run1/m800aBB26.prm  
 LOGGING MODE: TIME  
 START TIME: 0.000 s END TIME: 838.875 s

## SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (s)	
LMP	FILTER ( )	medium(1)		START	END
QD PRES	FILTER ( )	medium(1)		"	"
RTD	FILTER ( )	medium(1)		"	"

## RCI PROCESSING

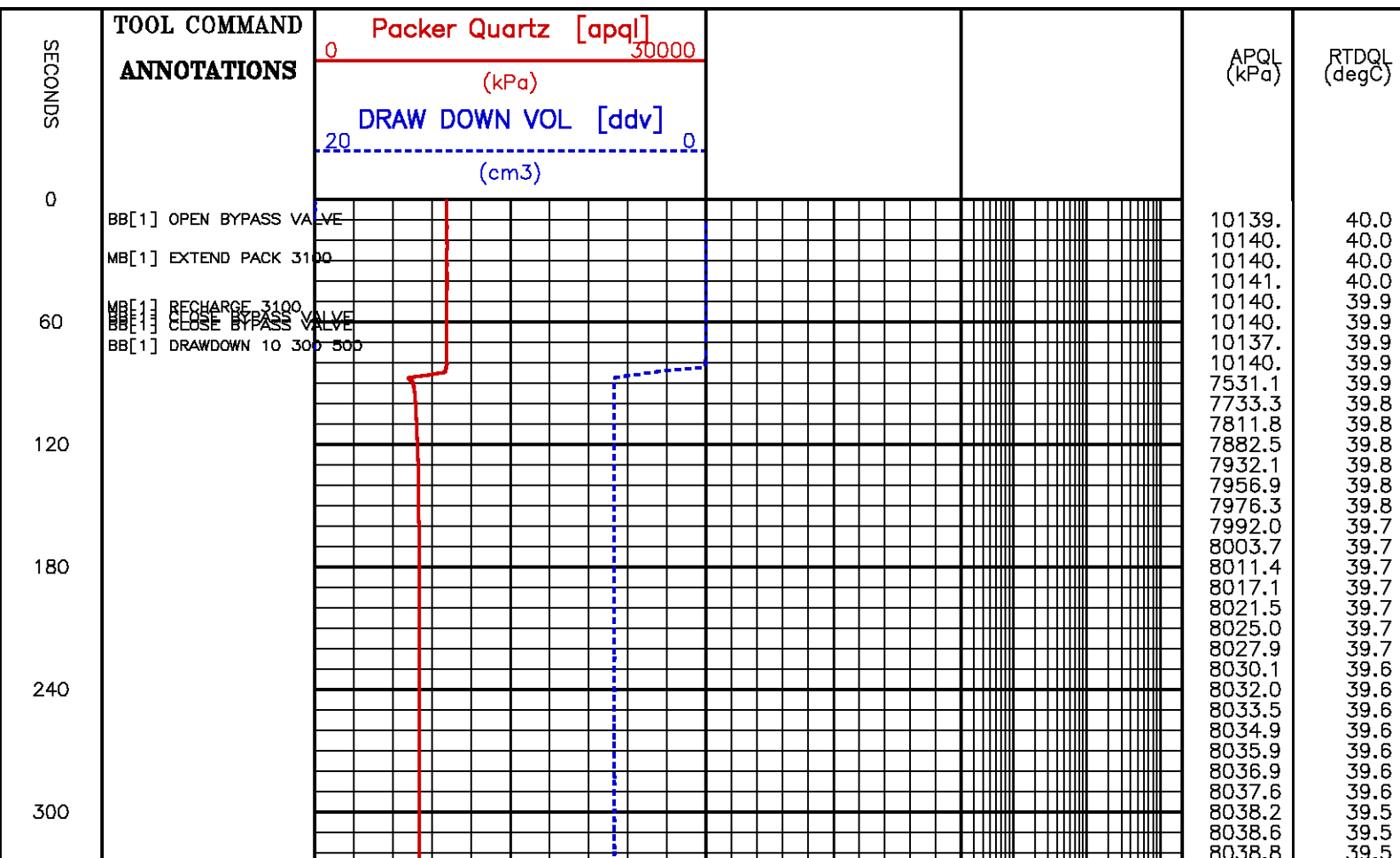
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (s)	
RCI VOLUME	Isolated VOL	51.0(56/36.2cc pump)		START	END
	Piston Area	445.8 (56 cc pump)		"	"
RCI DEPTH CORRECTED PRESSURE	Deviation Source	Use 4401		"	"
FTA INPUT	FTA Pressure Src (1)	Use 1970LB(MB)		"	"

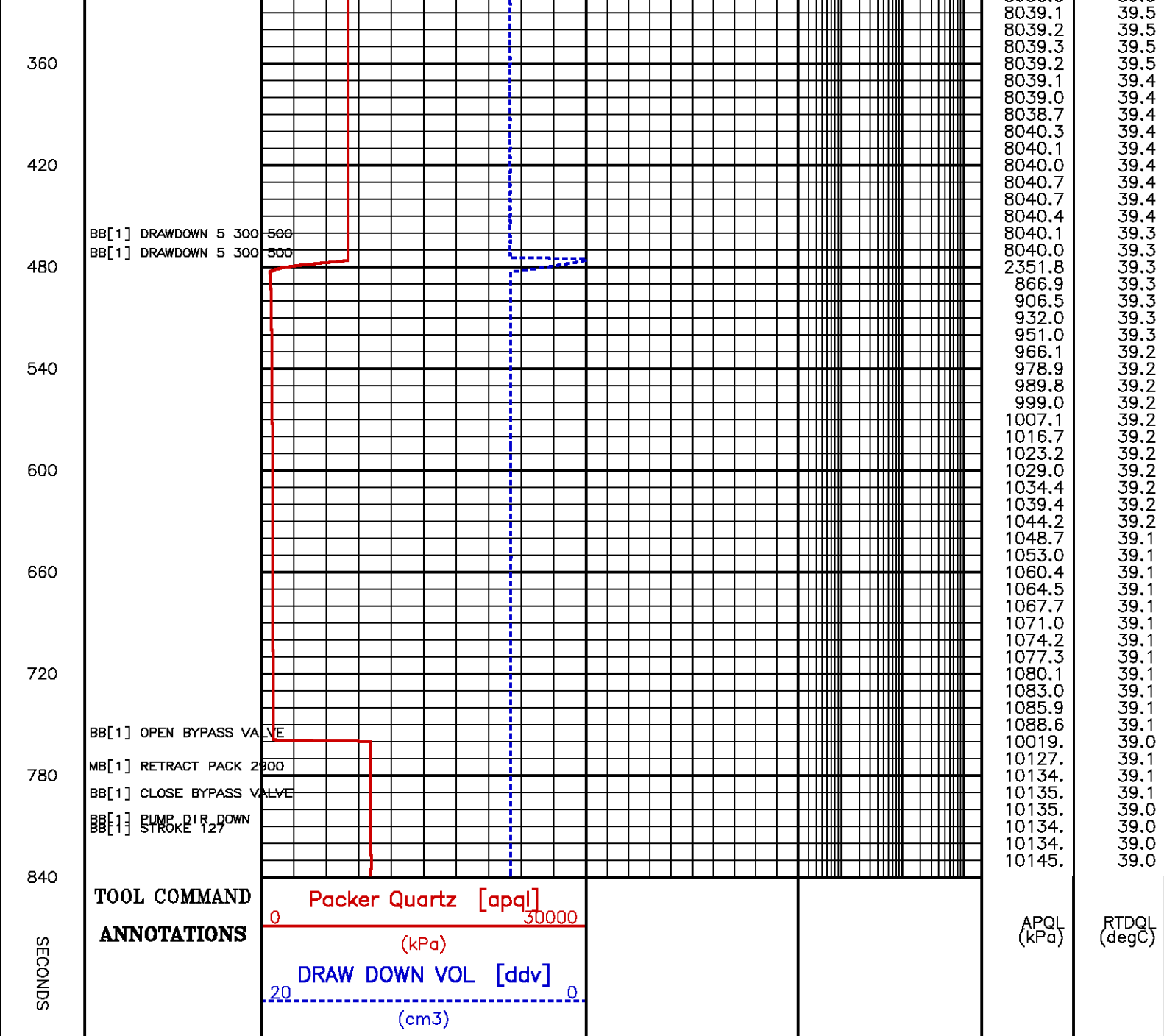
## CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION	
F1:APQL	Nov 4 04:23:10 2010	1970LB QUARTZDYNE GAUGE PRESSURE	
F1:DDV	Nov 4 04:23:10 2010	DRAWDOWN VOLUME	
F1:RTDQL	Nov 4 04:23:10 2010	1970LA QUARTZDYNE PRESSURE GAUGE TEMPERATURE	

Presentation : cpu1:/data/pass/nalcor\_run1/rci-7960.pdf [1:1000 Scale]  
 Plot Interval : 0 - 839.375 Seconds

Data File 1 : F1 : cpu1:/data/pass/nalcor\_run1/m800aBB26.aff  
 Created On : Nov 4 04:23:10 2010  
 Company : NALCOR ENERGY  
 Well : NALCOR ET AL FINNEGAN 31  
 Field : FINNEGAN  
 File Interval : 0 - 839.375 Seconds @ 796.027 Meters  
 Oct : m800aBB





GR TIE IN LOG

ECLIPS 6.1i Aug 06, 2010  
Patches: 1

Thu Nov 4 08:29:53 2010

Pcrplt /main/62

Cplot

Pdf\_Cpp /main/16

Fileview 5.50

## PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/pass/nalcor\_run1/m800aBB01.prm  
LOGGING MODE: DEPTH DIRECTION: UP  
TOP DEPTH: 1388.440 m BOTTOM DEPTH: 1425.406 m

SYMMETRIC FILTER



CHT	FILTER ( )	medium (1)	TOP	BOTTOM
SPEED	FILTER ( )	medium (1)	" "	" "
TENSION	FILTER ( )	medium (1)	" "	" "
GR	FILTER ( )	medium (1)	" "	" "

## CURVE DESCRIPTION REPORT

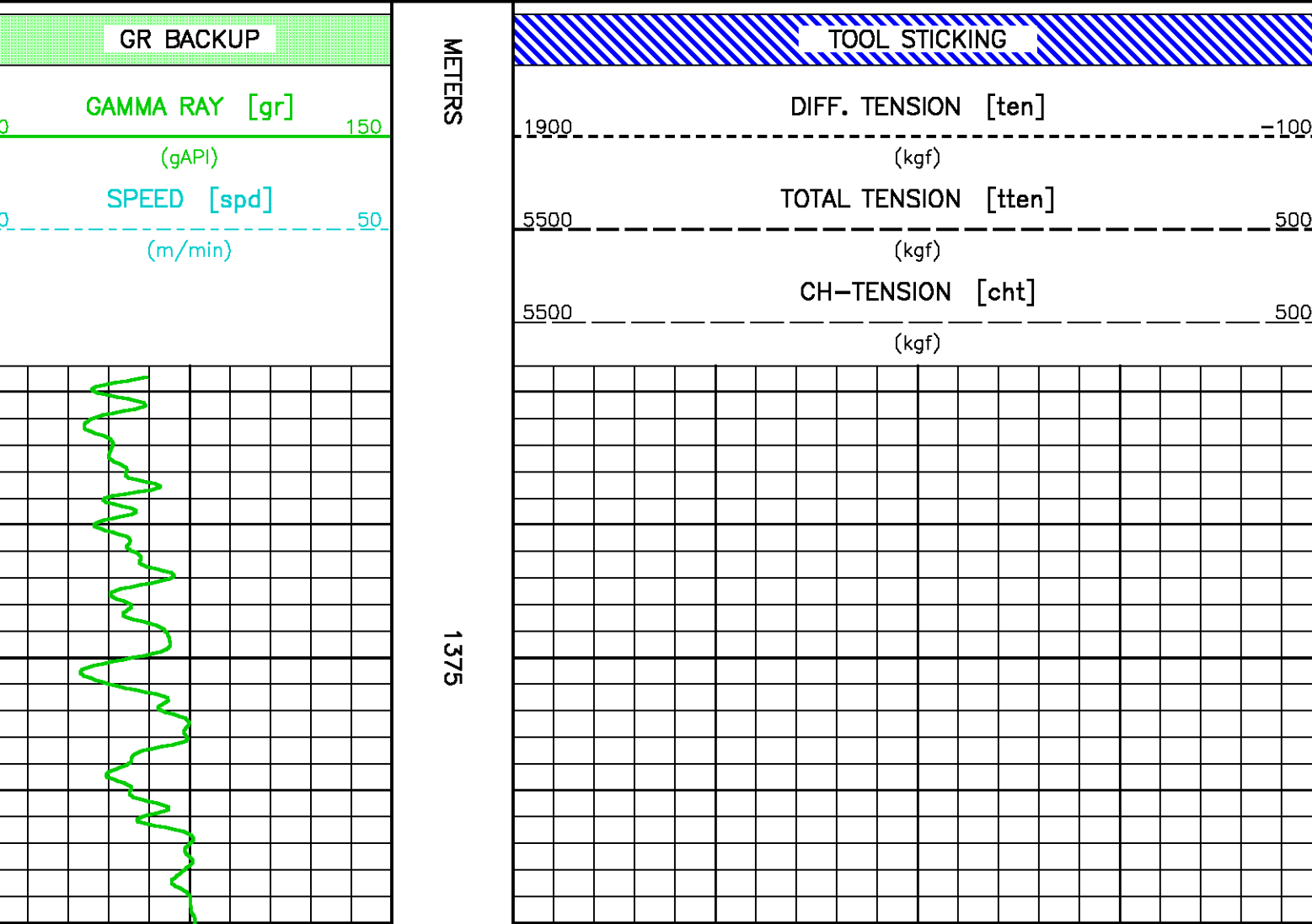
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CHT	Nov 3 18:49:48 2010	CABLE HEAD TENSION
F1:GR	Nov 3 18:49:48 2010	GAMMA RAY
F1:SPD	Nov 3 18:49:48 2010	SPEED
F1:TEN	Nov 3 18:49:48 2010	DIFFERENTIAL TENSION
F1:T TEN	Nov 3 18:49:48 2010	TOTAL TENSION

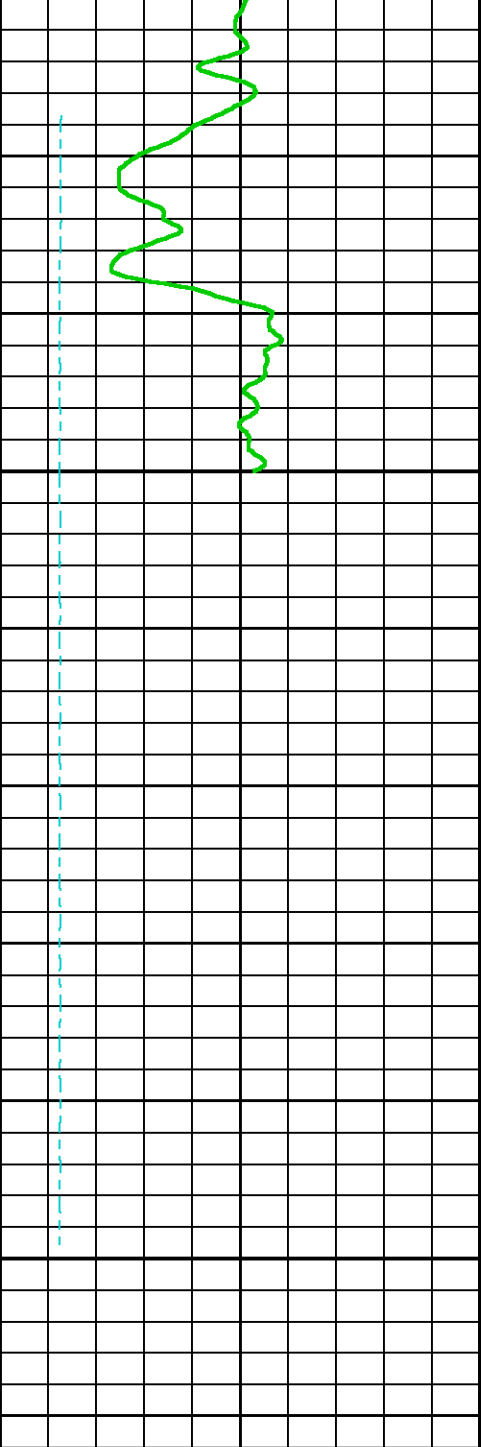
## CURVE MEASURE POINT OFFSET

CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
CHT	-5.64	SPD	0.00	TEN	-5.64		
GR	24.31	TEN	-5.64				

**Presentation** : cpu1:/dat1a/pass/nalcor\_run1/rc1-gr.pdf [1:240 Scale]  
**Plot Interval** : 1364.44 - 1430.27 Meters

Data File 1 : F1 : cpu1:/dat1a/pass/nalcor\_run1/m800aBB01.aff  
Created On : Nov 3 18:49:48 2010  
Company : NALCOR ENERGY  
Well : NALCOR ET AL FINNEGAN 31  
Field : FINNEGAN  
File Interval : 1359.94 - 1430.66 Meters  
Qct : m800aBB

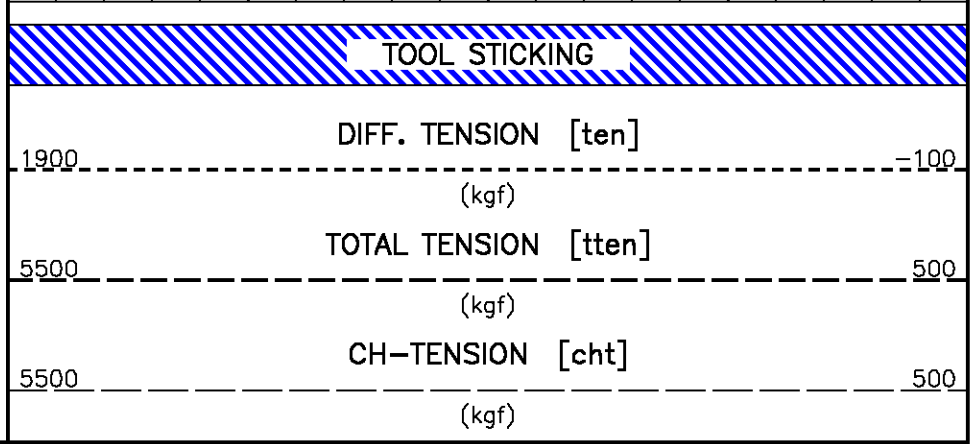
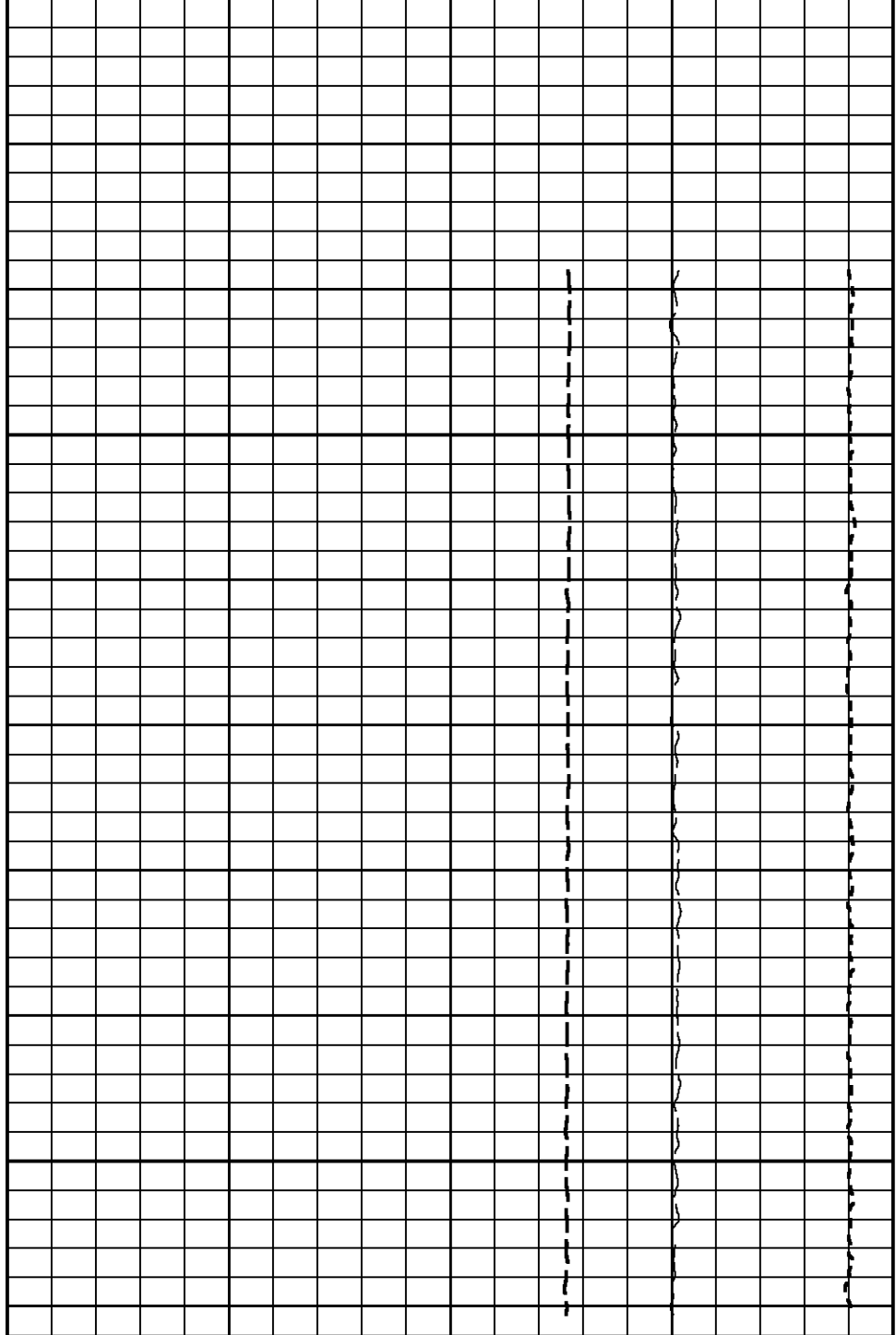
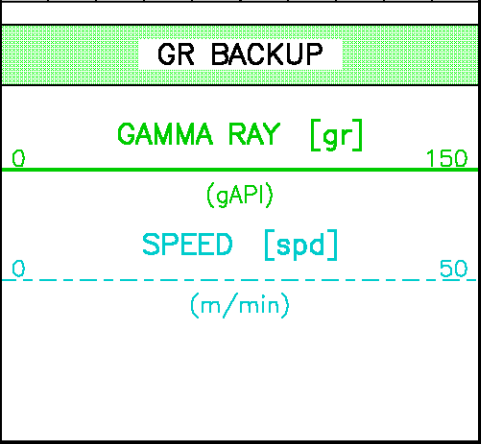




1400

1425

METERS



Source File: /data/pass/nalcor\_run1/m800aBB.ip1

## GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 179402

DATE/TIME PERFORMED: Wed Sep 22 15:45:10 2010

UNIT #: 3885TF 004291

CALB JIG #: 4702NK DA-479

	BACKGROUND (cts/s)	CALBTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBTR ON (gAPI)	CALBTR (gAPI)
GR	141.80	1066.11	924.3 830.0 960.0	0.162	23.01	173.01	150

## GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 179402

DATE/TIME PERFORMED: Wed Sep 22 15:50:40 2010

UNIT #: 3885TF 004291

VERI JIG #: 4702NK DA-479

	BACKGROUND (cts/s)	CALBTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBTR ON (gAPI)	DIFF. (gAPI)
GR	141.84	1087.40	0.162	23.02	176.47	153.45 140.00 180.00

## GR BEFORE LOG VERIFICATION SUMMARY

NOT DONE

## GR AFTER LOG VERIFICATION SUMMARY

NOT DONE

## RCICAL-L PRIMARY CALIBRATION SUMMARY

GAUGE #: 1970LB 164152

DATE/TIME PERFORMED: Wed Nov 3 17:25:18 2010

UNIT #: 3885TF 004291

GAUGE CAL DATE: 5 Mar 2010

	Coeff	A0	A1	A2	A3
Pres					
A	3.324520E+09	1.846611E+01	-5.696374E-01	-1.915926E-02	9.372051E-06
B	-1.723672E+07	4.170086E+01	-2.017492E-02	2.764942E-05	-4.758416E-08
C	-1.240837E+04	-1.993410E-03	5.999235E-06	-7.007269E-08	-3.300000E-11
D	1.468308E+02	0.583765E-07	1.303885E-08	2.084330E-10	3.001886E-13

D

E

FPO FT0 MP MT

Prescale A&M

	F(pres) (Hz)	F(temp) (Hz)	F(ref) (Hz)	DIFF(pres) (psl)	Pressure (psl)	Temp (degC)
Coeff Test	<input type="text" value="1.0"/>	<input type="text" value="1.0"/>	<input type="text" value="1.0"/>	<input type="text" value="1.00000"/>	<input type="text" value="-5316562032273585860"/>	<input type="text" value="66989312.00"/>

	Coeff	A0	A1	A2	A3
Temp					
G	<input type="text" value="-2.560178E+08"/>	<input type="text" value="2.302421E+01"/>	<input type="text" value="-7.320135E-01"/>	<input type="text" value="-8.570055E-04"/>	<input type="text" value="-6.889479E-07"/>
H	<input type="text" value="1.364755E+05"/>	<input type="text" value="7.769374E-05"/>	<input type="text" value="1.164001E-05"/>	<input type="text" value="1.394695E-07"/>	<input type="text" value="3.717720E-10"/>
I	<input type="text" value="-6.860045E+02"/>	<input type="text" value="-2.885584E-07"/>	<input type="text" value="-5.635824E-08"/>	<input type="text" value="-6.938091E-10"/>	<input type="text" value="-1.868842E-12"/>
J	<input type="text" value="9.433855E-01"/>	<input type="text" value="1.595555E-10"/>	<input type="text" value="7.208710E-11"/>	<input type="text" value="9.352502E-13"/>	<input type="text" value="2.570276E-15"/>

## RCICAL-J PRIMARY CALIBRATION SUMMARY

GAUGE #:  DATE/TIME PERFORMED:

UNIT #:  GAUGE CAL DATE:



	Coeff	A0	A1	A2	A3
Pres					
A	<input type="text" value="3.110422E+09"/>	<input type="text" value="1.360289E+01"/>	<input type="text" value="-5.367107E-01"/>	<input type="text" value="-1.844129E-02"/>	<input type="text" value="8.789102E-06"/>
B	<input type="text" value="-1.406349E+07"/>	<input type="text" value="4.097762E+01"/>	<input type="text" value="-1.980547E-02"/>	<input type="text" value="2.800206E-05"/>	<input type="text" value="-3.895971E-08"/>
C	<input type="text" value="-3.611859E+04"/>	<input type="text" value="-1.946020E-03"/>	<input type="text" value="5.444987E-06"/>	<input type="text" value="-8.651867E-08"/>	<input type="text" value="-9.785136E-11"/>
D	<input type="text" value="2.144730E+02"/>	<input type="text" value="8.763469E-07"/>	<input type="text" value="1.420430E-08"/>	<input type="text" value="2.612479E-10"/>	<input type="text" value="5.845689E-13"/>
E	<input type="text" value="-2.577413E-01"/>	<input type="text" value="-3.411885E-10"/>	<input type="text" value="-1.897558E-11"/>	<input type="text" value="-2.813084E-13"/>	<input type="text" value="-7.029577E-16"/>

FPO FT0 MP MT

Prescale A&M

	F(pres) (Hz)	F(temp) (Hz)	F(ref) (Hz)	DIFF(pres) (psl)	Pressure (psl)	Temp (degC)
Coeff Test	<input type="text" value="1.0"/>	<input type="text" value="1.0"/>	<input type="text" value="1.0"/>	<input type="text" value="1.00000"/>	<input type="text" value="-6763042146380424936"/>	<input type="text" value="5940537344.00"/>

	Coef f	A0	A1	A2	A3
Temp					
G	-2.398064E+08	2.345792E+01	-7.216634E-01	-8.267590E-04	-6.459957E-07
H	-2.159285E+04	2.122690E-05	-2.199738E-06	-2.407606E-08	-5.888462E-11
I	2.691181E+02	1.310190E-07	2.285880E-08	2.727198E-10	7.342801E-13
J	-5.806128E-01	-7.375871E-10	-5.154272E-11	-5.887059E-13	-1.584178E-15

 <b>Baker Atlas</b> 	COMPANY <u>NALCOR ENERGY INC.</u> WELL <u>NALCOR ET AL FINNEGAN #1</u> FIELD <u>FINNEGAN</u> PROVINCE <u>NEWFOUNDLAND AND LABRADOR</u>		FILE NO: _____ API NO: _____
	LOCATION:  LAT <u>49.920 N</u> LONG <u>63.330 W</u>	ELEVATIONS: KB <u>125.00 M</u> DF _____ GL <u>118.75 M</u>	LICENSE: <u>2010-128-04</u>
		DATE <u>02-NOV-2010</u>	