

Schlumberger

Company: IMPERIAL OIL RESOURCES

Well: IMP 12 NO2-10 COLD LK 3-36-66-3

Field: UNDEFINED

County: ALBERTA

State: **MD**

TEMPERATURE LOG

County: ALBERTA
Field: UNDEFINED
Location: 3-36-66-3W4
Well: IMP 12 NO2-10 COLD LK 3-36-66-3
Company: IMPERIAL OIL RESOURCES

LOCATION

3-36-66-3W4
10403606603W400

Elev.: K.B. 660.23 m
G.L. 645.00 m
D.F.

Permanent Datum: _____
Log Measured From: _____
Drilling Measured From: _____

GROUND LEVEL
KELLY BUSHING
KELLY BUSHING

Elev.: 645.00 m
5.23 m above Perm. Datum

API Serial No. 0446832
Section 03-36
Township 066
Range 03W4

Logging Date	9-Dec-2016			
Run Number	1			
Depth Driller	544 m			
Schlumberger Depth	529 m			
Bottom Log Interval	529 m			
Top Log Interval	5 m			
Casing Fluid Type	BOILER FEED			
Salinity				
Density				
Fluid Level	51.0 m			
BIT/CASING/TUBING STRING				
Bit Size	311,000 mm			
From	5.23 m			
To	544 m			
Casing/Tubing Size	73,000 mm			
Weight	9.67 kg/m			
Grade	J-55			
From	4.47 m			
To	544 m			
Maximum Recorded Temperatures	141 degC			
Logger On Bottom	9-Dec-2016	Time	11:40	
Unit Number	Location	15217	LL OYDMINSTER PS	
Recorded By	JON ATTIG			
Witnessed By	PETE KRAWIEC			

PVT DATA					Run 1	Run 2	Run
Oil Density							
Water Salinity							
Gas Gravity							
Bo							
Bw							
1/Bq							
Bubble Point Pressure							
Bubble Point Temperature							
Solution GOR							
Maximum Deviation							
CEMENTING DATA							
Primary/Squeeze		Primary					
Casing String No							
Lead Cement Type							
Volume							
Density							
Water Loss							
Additives							
Tail Cement Type							
Volume							
Density							
Water Loss							
Additives							
Expected Cement Top							
Logging Date							
Run Number							
Depth Driller							
Schlumberger Depth							
Bottom Log Interval							
Top Log Interval							
Casing Fluid Type							
Salinity							
Density							
Fluid Level							
BIT/CASING/TUBING STRING							
Bit Size							
From							
To							
Casing/Tubing Size							
Weight							
Grade							
From							
To							
Maximum Recorded Temperatures							
Logger On Bottom		Time					
Unit Number	Location						
Recorded By							
Witnessed By							

DEPTH SUMMARY LISTING

Date Created: 9-DEC-2016 12:01:36

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B Serial Number: 6398 Calibration Date: Calibrator Serial Number: 4 Calibration Cable Type: 1-33A-SLC Wheel Correction 1: -3 Wheel Correction 2: 0	Type: CMTD-B/A Serial Number: Calibration Date: 15-NOV-2016 Calibrator Serial Number: Number of Calibration Points: 10 Calibration RMS: Calibration Peak Error:	Type: 1-33A-SLC Serial Number: Length: 2500 M Conveyance Method: Wireline Rig Type: LAND

Depth Control Parameters

Log Sequence: First Log In the Well
Rig Up Length At Surface: 0.00 M
Rig Up Length At Bottom: 0.00 M
Rig Up Length Correction: 0.00 M
Stretch Correction:
Tool Zero Check At Surface:

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH CONTROL PROCEDURES FOLLOWED
2. IDW USED AS PRIMARY DEPTH CONTROL
3. Z-CHART USED AS SECONDARY DEPTH CONTROL
- 4.
- 5.
- 6.

DISCLAIMER

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OTHER SERVICES1

OS1: OCL/GR
OS2:
OS3:
OS4:
OS5:

OTHER SERVICES2

OS1:
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 1

LOGGED DOWN AT 9 M/MIN

FLUID LEVEL DERIVED FROM LOG @ 510 MKB






LAST FLUID MOVEMENT: 1-DEC-2016 (N2 PURGED)

MAX TEMP 141 DEGC AT 529 MKB

CLEARWATER TOP AT 513.2 MKB

BURST NIPPLE TOP AT 510.5 MKB

REMARKS: RUN NUMBER 2

PSN TOP AT 529.88 MKB							
FLUID SHOT:							
BEFORE SITP: 900 KPA, 54/54							
BEFORE SICP: 1100 KPA, 54/54							
AFTER SITP: 780 KPA							
AFTER SICP: 1050 KPA							
YOUR CREW TODAY: J.ATTIG, B.FAIRHURST							
<div> <div>RUN 1</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> <div> <div>DKRF-00024</div> <div>19C2-270</div> <div>510 m</div> </div> </div>			<div> <div>RUN 2</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> </div>				
LOGGED	INTERVAL	START	STOP	LOGGED	INTERVAL	START	STOP
EQUIPMENT DESCRIPTION							
RUN 1				RUN 2			
SURFACE EQUIPMENT							
WITM-A PSC_16MHZ							
DOWNHOLE EQUIPMENT							
MH-22 MH-22			7.61				
AH-38			7.13				
EQF-43 EQF-43			7.05				
EQF-43 EQF-43			5.22				
HBMS-B PSC-A	<div> <div>Detail MT</div> <div>TelStatus</div> <div>CTEM</div> </div> 		3.39				
			3.39				

HUDH-A
HSTC-A
HBMC-A
GR
CCL
HBMC
HTPS-A
HCQG_E_Mano
RTD_Thermometer

GR — 1.89

CCL — 1.16

HSTC ALK
HBMC ALK — 0.71

CQG Manom
Well_Temp — 0.28

Tension HV — 0.00

TOOL ZERO

MAXIMUM STRING DIAMETER 52 MM
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Schlumberger

DOWN PASS 9 M/MIN

MAXIS Field Log

Company: IMPERIAL OIL RESOURCES

Well: IMP 12 NO2-10 COLD LK 3-36-66-3

Input DLIS Files

DEFAULT Rip_HBMS_008LUP PRODUCER 09-Dec-2016 11:45 529.7 M -0.2 M

Output DLIS Files

DEFAULT HBMS_009PUP FN:7 PRODUCER 09-Dec-2016 11:45 531.1 M 1.2 M

OP System Version: 19C2-270

HBMS-B 19C2-270

PIP SUMMARY

☒ Time Mark Every 60 S

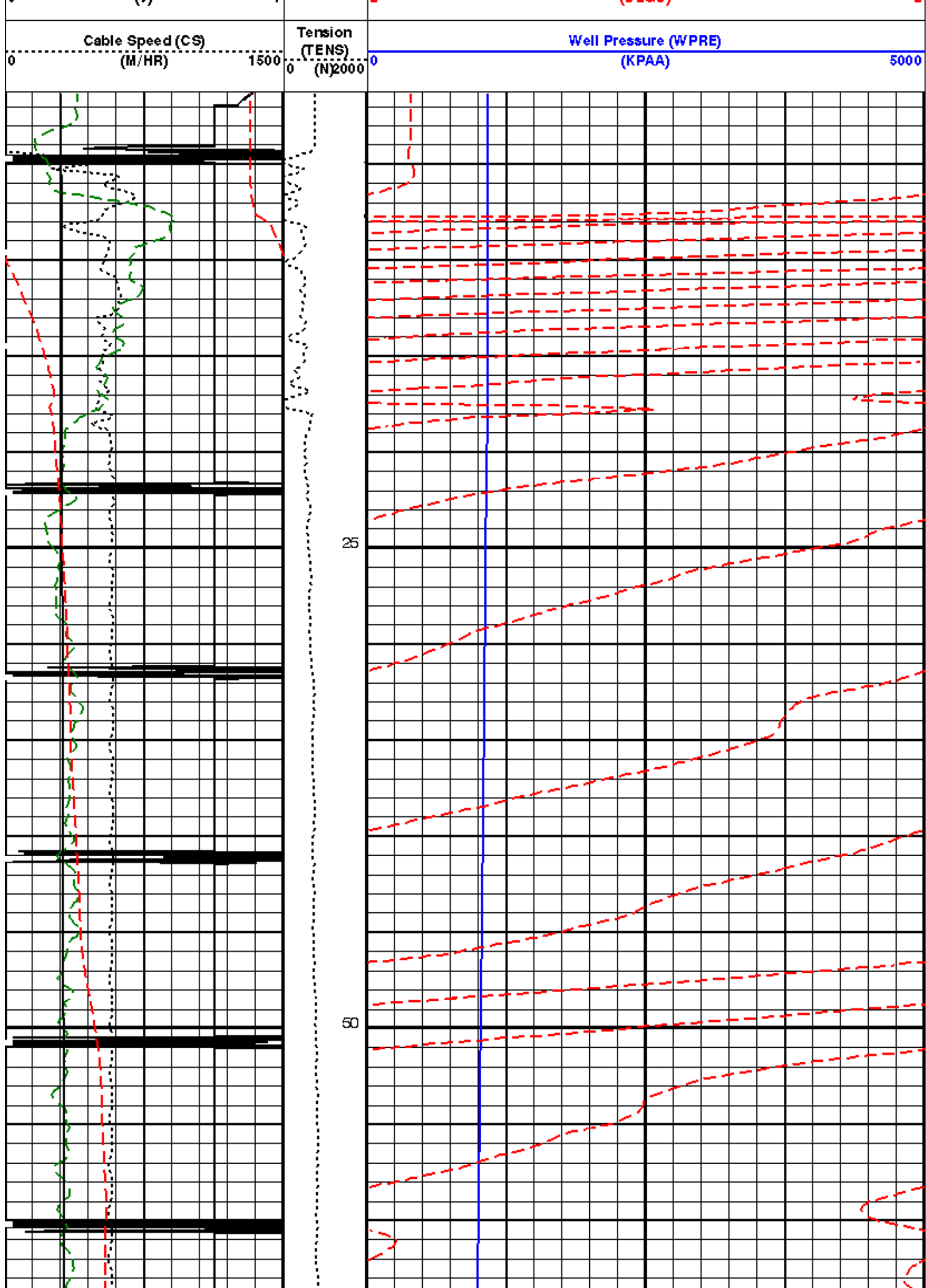
Well Temperature (WTEP)
(DEGC) 0 150

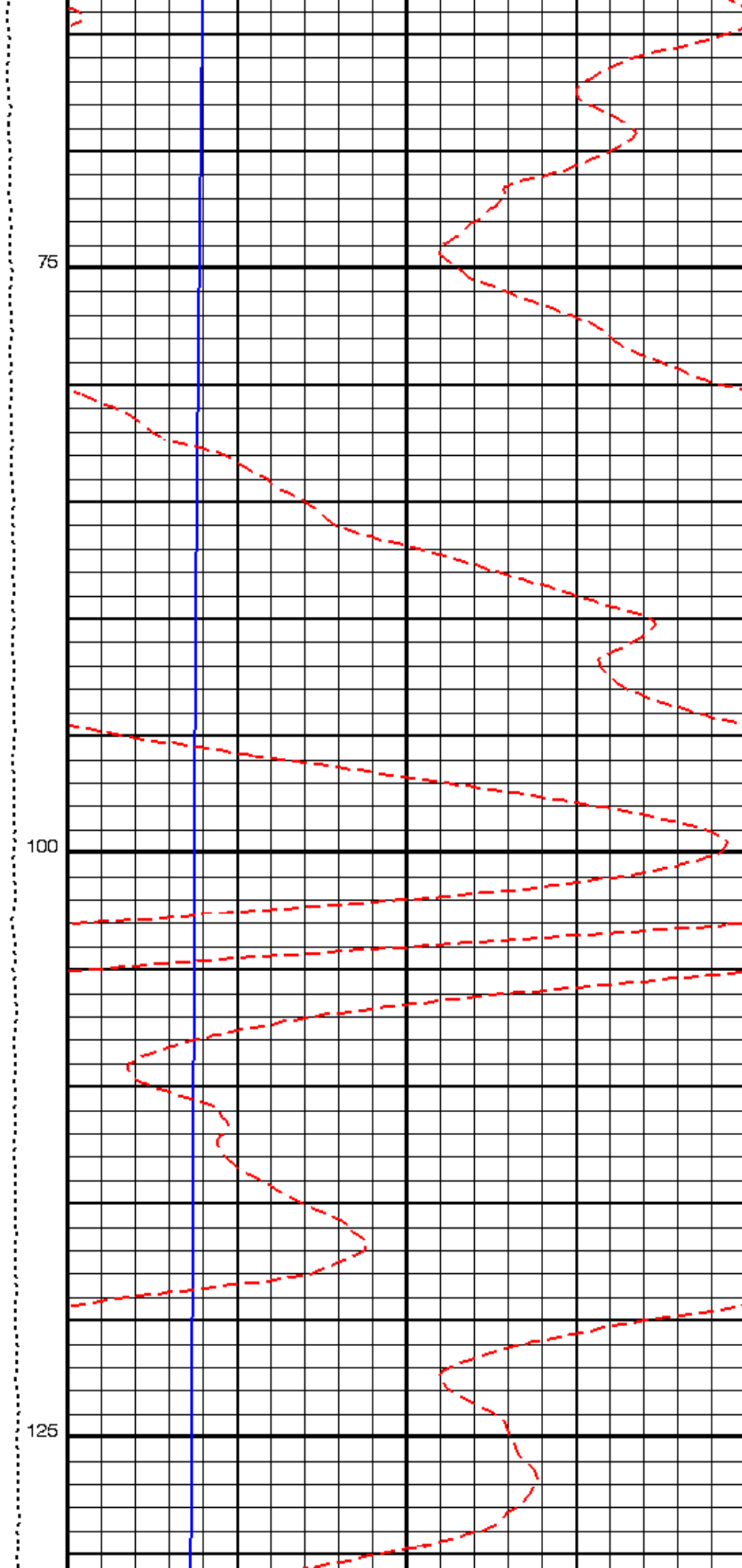
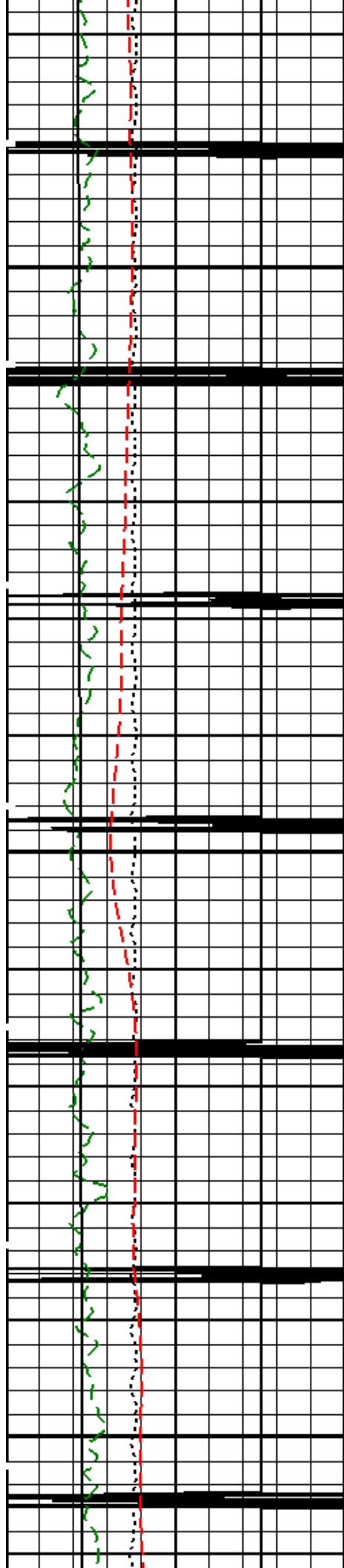
Temperature (TEMP)
(DEGC) 0 100

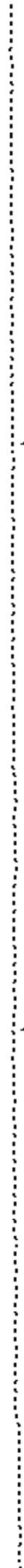
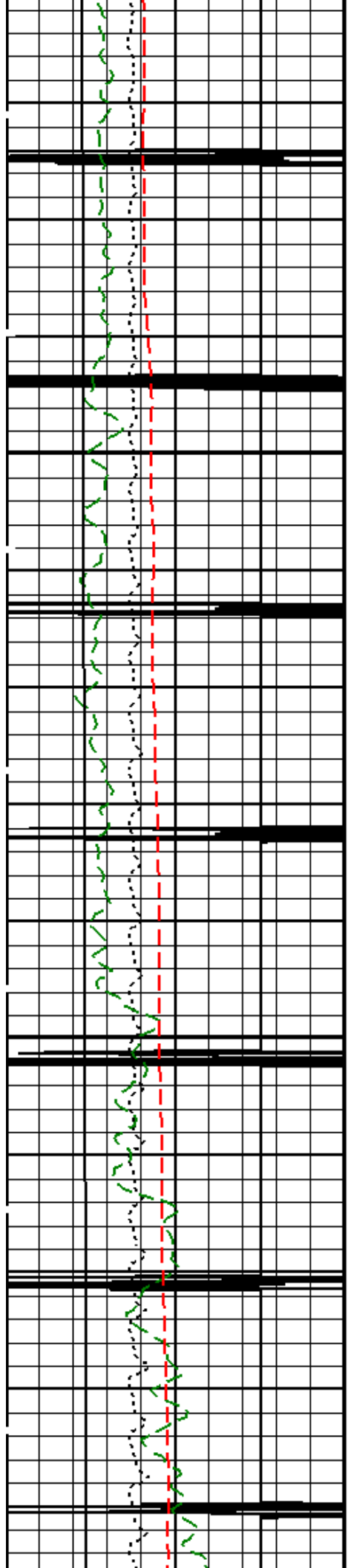
Gamma Ray (GR)
(GAPI) 0 100

Discriminated CCL (CCLD)
(M) 3 -1

Well Temperature (WTEP)
(DEGC) 2 -2

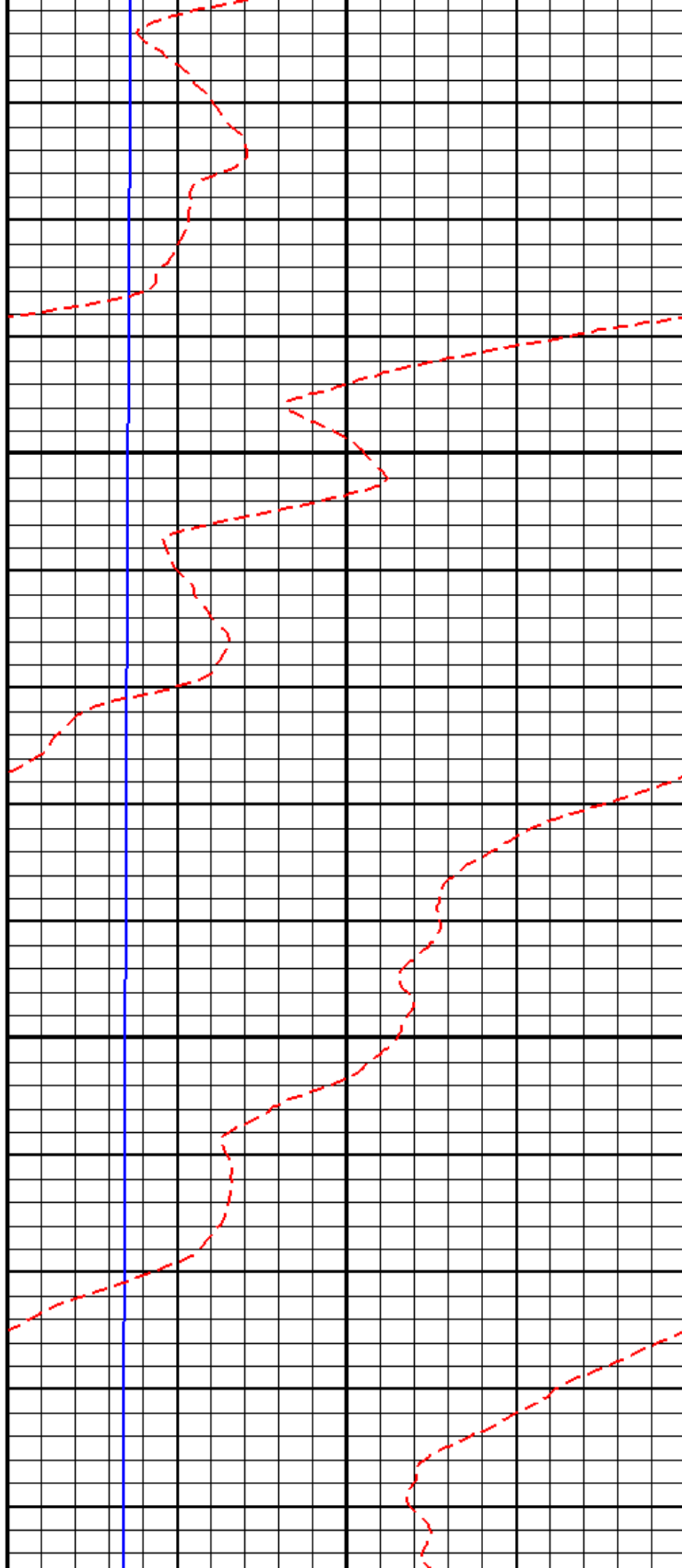


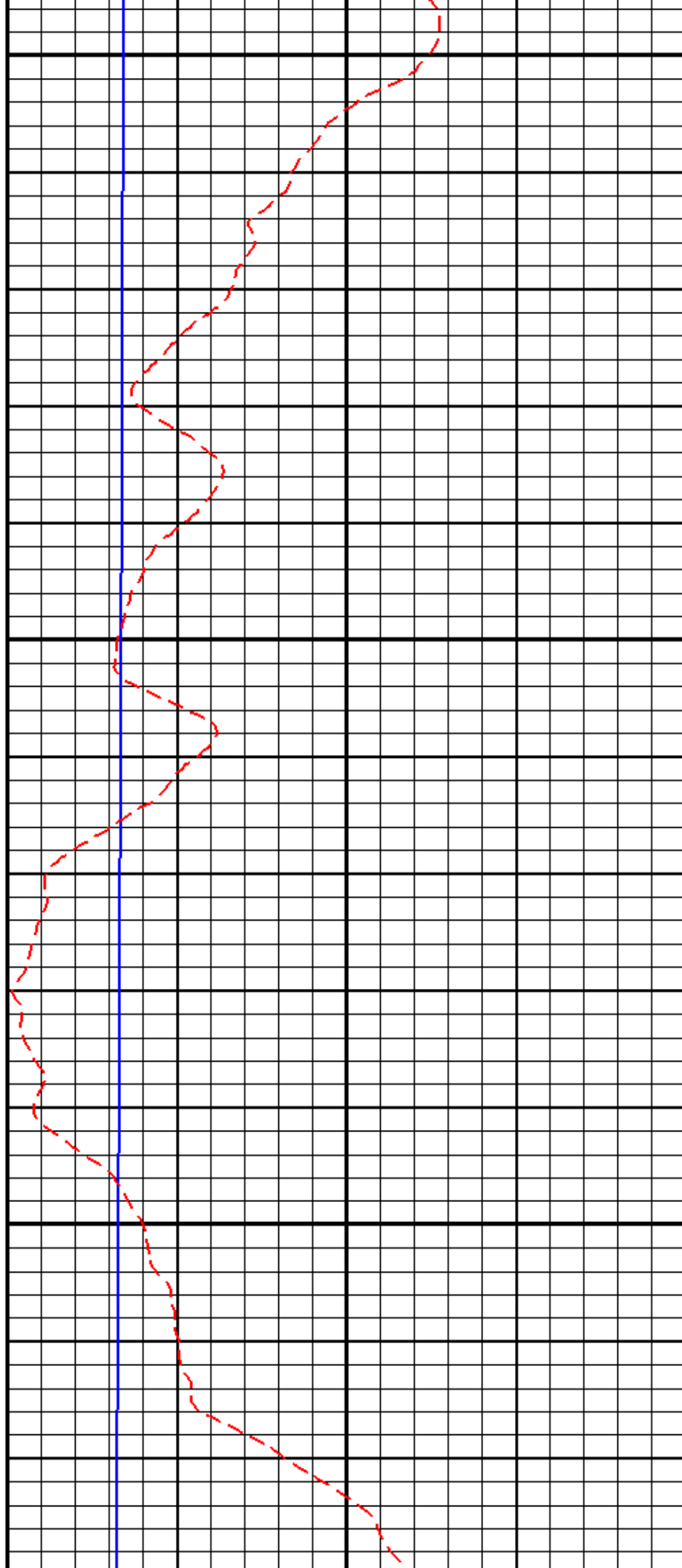
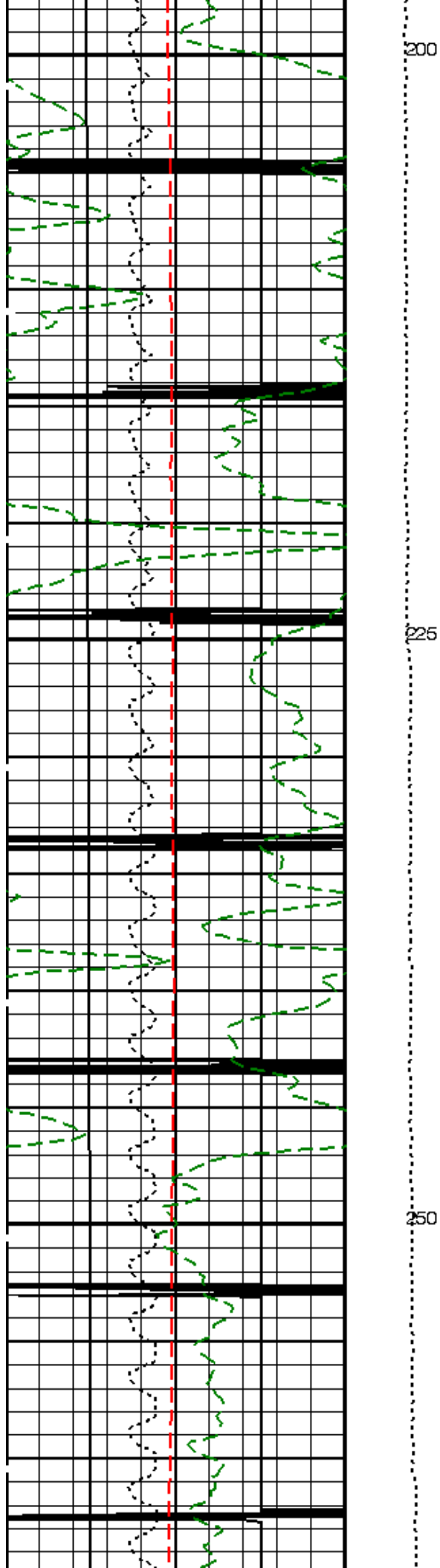


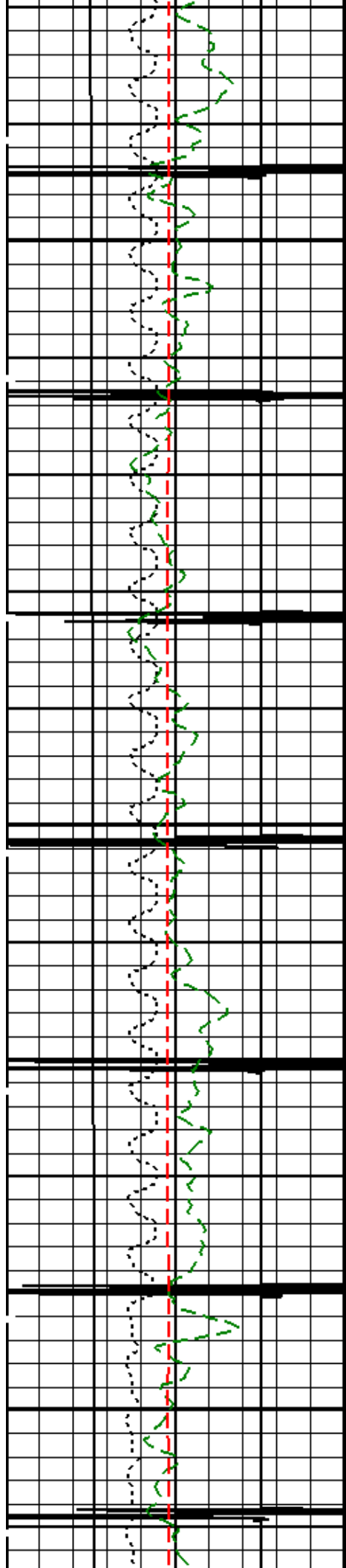


150

175



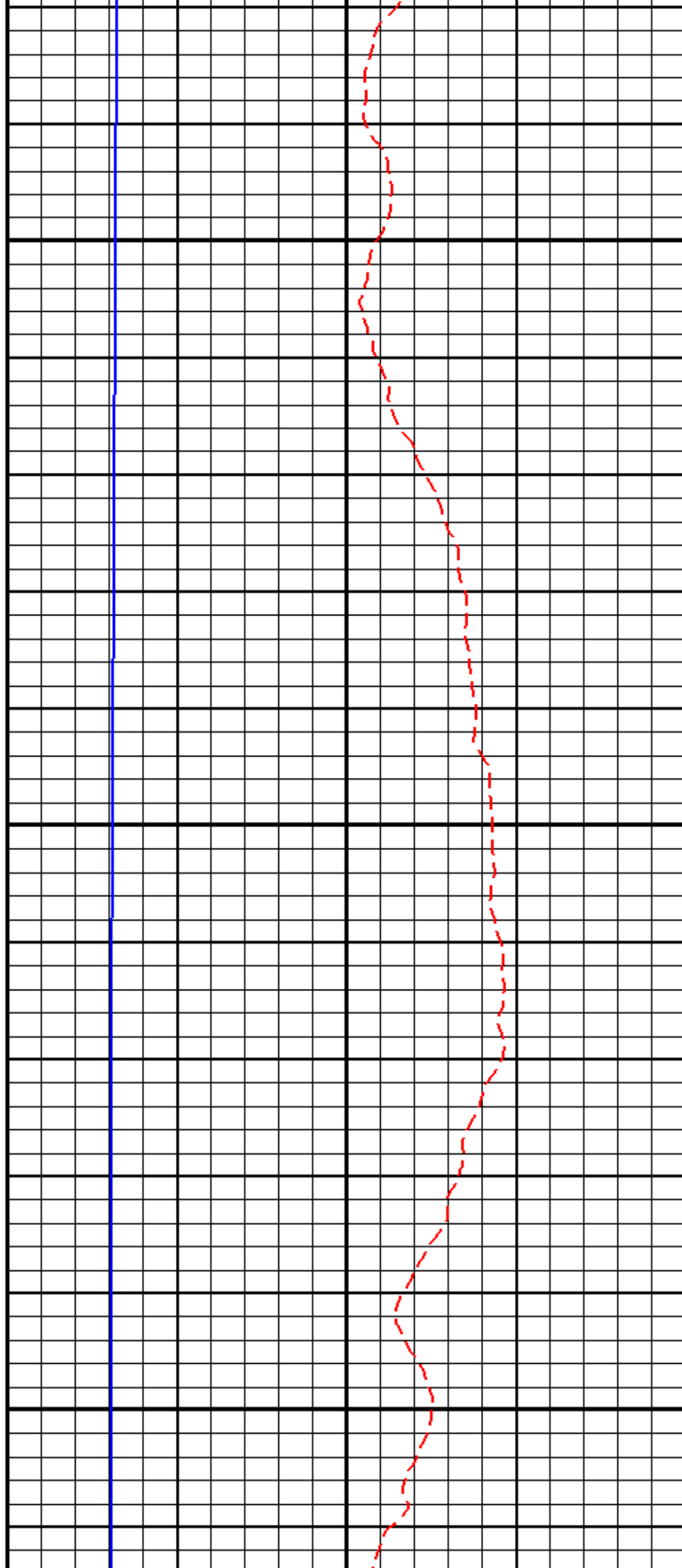


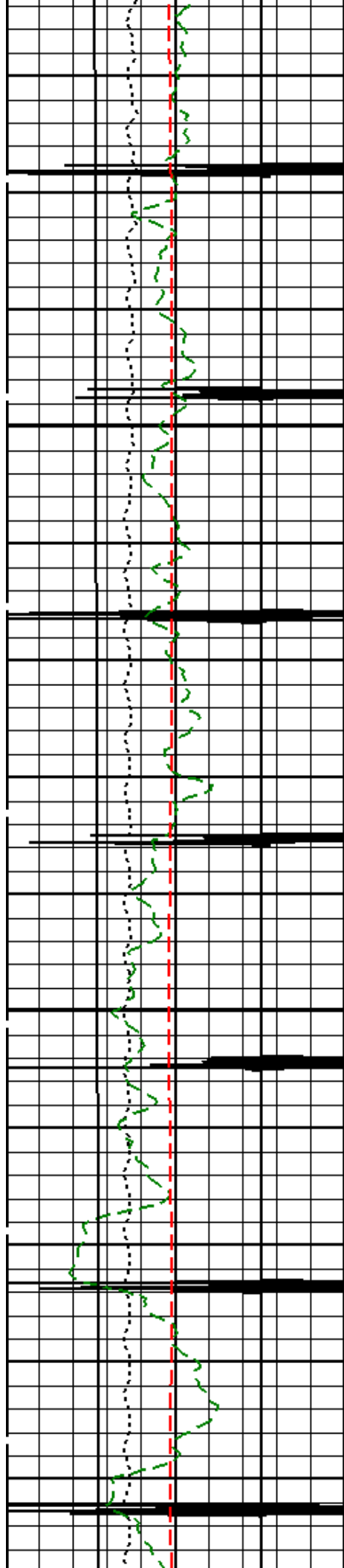


275

300

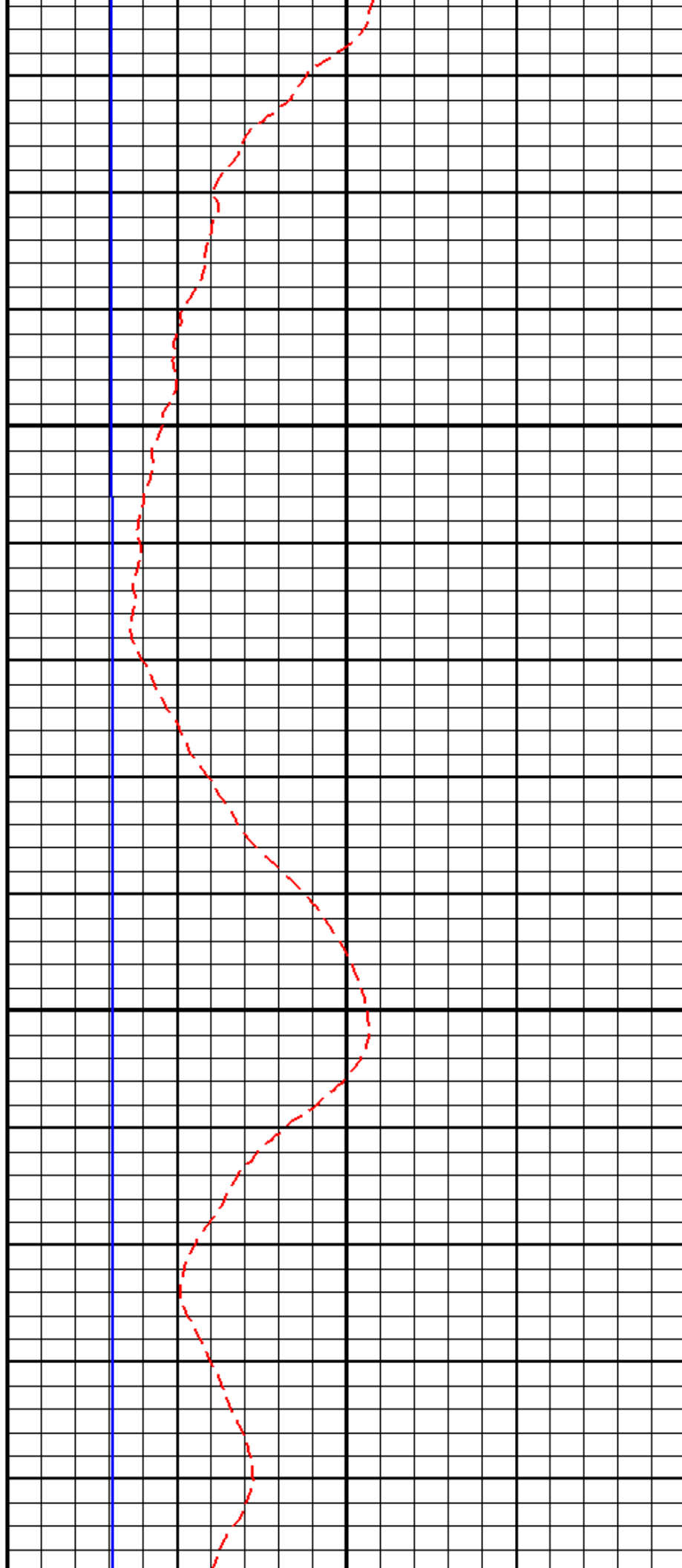
325

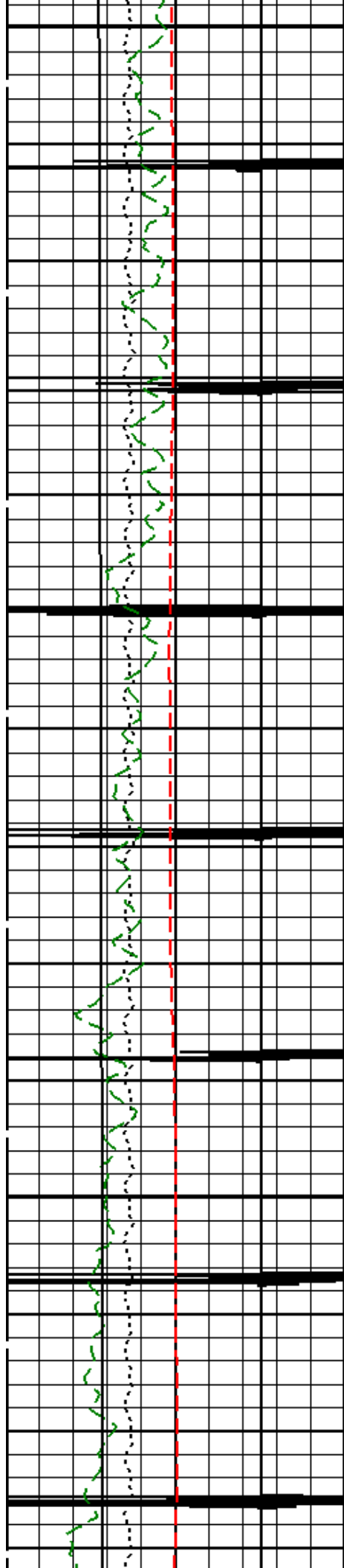




350

375

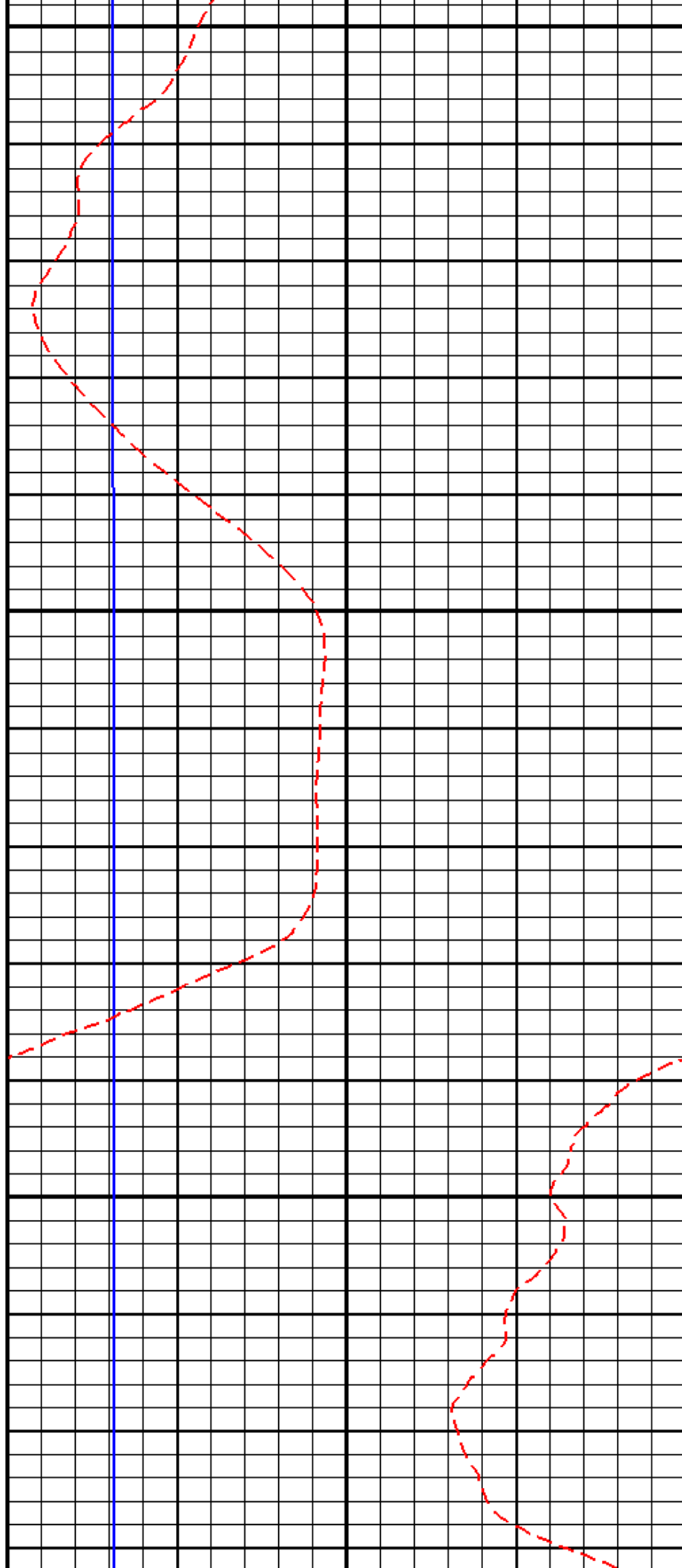


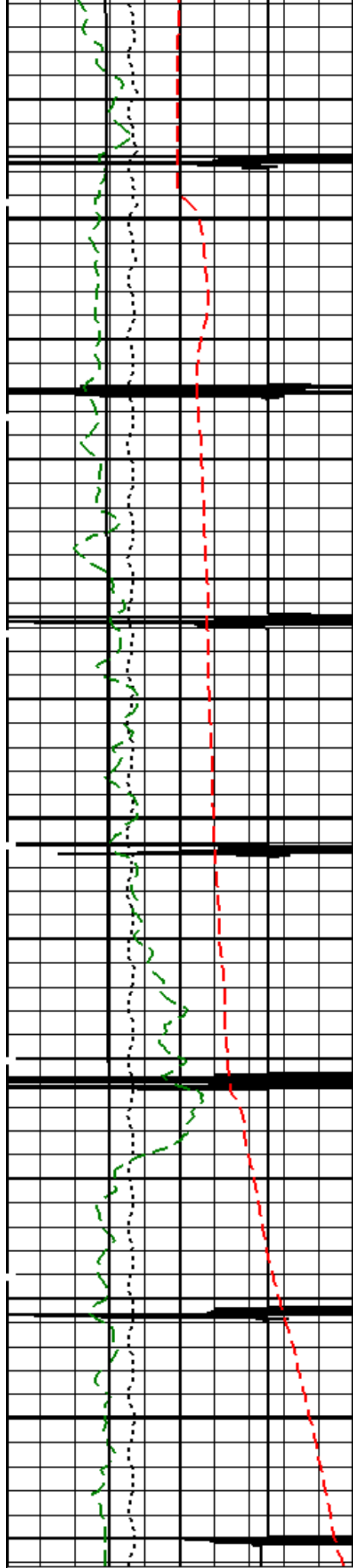


400

425

450

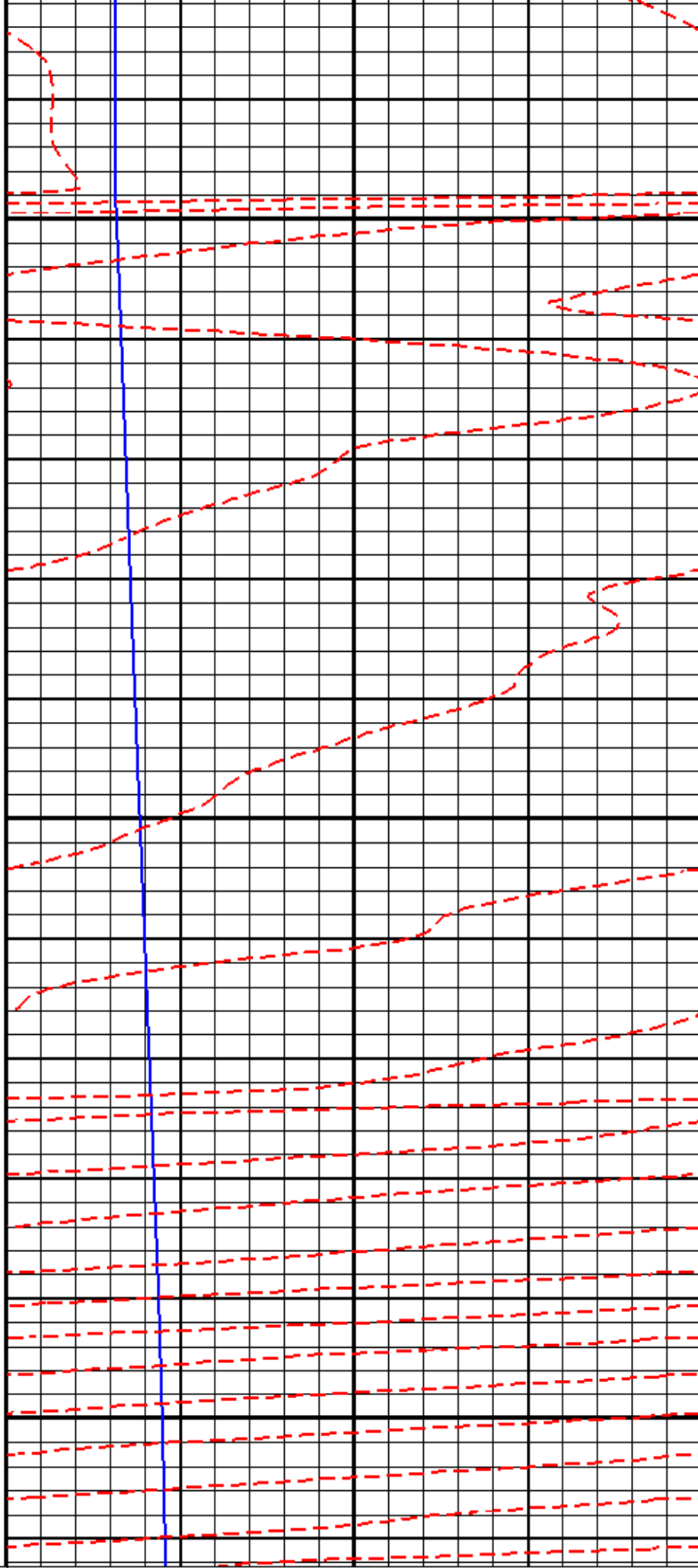




Cable Speed (CS)



Tension (TENS)



Well Pressure (WPRE)

0	(M/HR)	1500	0	(N)2000	0	(KPAA)	5000
Discriminated CCL (CCLD)							
3	(V)	-1	2	Well Temperature (WTEP) (DEGC)			-2
Gamma Ray (GR) (GAPI)							
0			100				
Temperature (TEMP)							
0	(DEGC)	100					
Well Temperature (WTEP) (DEGC)			0			150	

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:240

Graphics File Created: 09-Dec-2016 11:45

OP System Version: 19C2-270

HBMS-B 19C2-270

Parameters

DLIS Name	Description	Value	
HBMS-B: High Temperature PSP Basic Measurement Sonde			
BHT	Bottom Hole Temperature (used in calculations)	100	DEGC
GGRD	Geothermal Gradient	0.018227	DC/M
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	20	DEGC
RQL: RSTPro Reservoir Quick Look			
BHT	Bottom Hole Temperature (used in calculations)	100	DEGC
GGRD	Geothermal Gradient	0.018227	DC/M
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	20	DEGC
System and Miscellaneous			
DO	Depth Offset for Playback	1.4	M
PP	Playback Processing	NORMAL	
TD	Total Depth	-50000	M

Input DLIS Files

DEFAULT Rip_HBMS_008LUP PRODUCER 09-Dec-2016 11:45 529.7 M -0.2 M

Output DLIS Files

DEFAULT HBMS_009PUP FN:7 PRODUCER 09-Dec-2016 11:45

Schlumberger

UP PASS 9 M/MIN

MAXIS Field Log

Company: IMPERIAL OIL RESOURCES

Well: IMP 12 NO2-10 COLD LK 3-36-66-3

Input DLIS Files

DEFAULT HBMS_010LUP FN:8 PRODUCER 09-Dec-2016 11:49 529.9 M 429.9 M

Output DLIS Files

OP System Version: 19C2-270

HBMS-B

19C2-270

PIP SUMMARY

Time Mark Every 60 S

Well Temperature (WTEP)
(DEGC) 0 150

Temperature (TEMP)
(DEGC) 0 100

Gamma Ray (GR)
(GAPI) 0 100

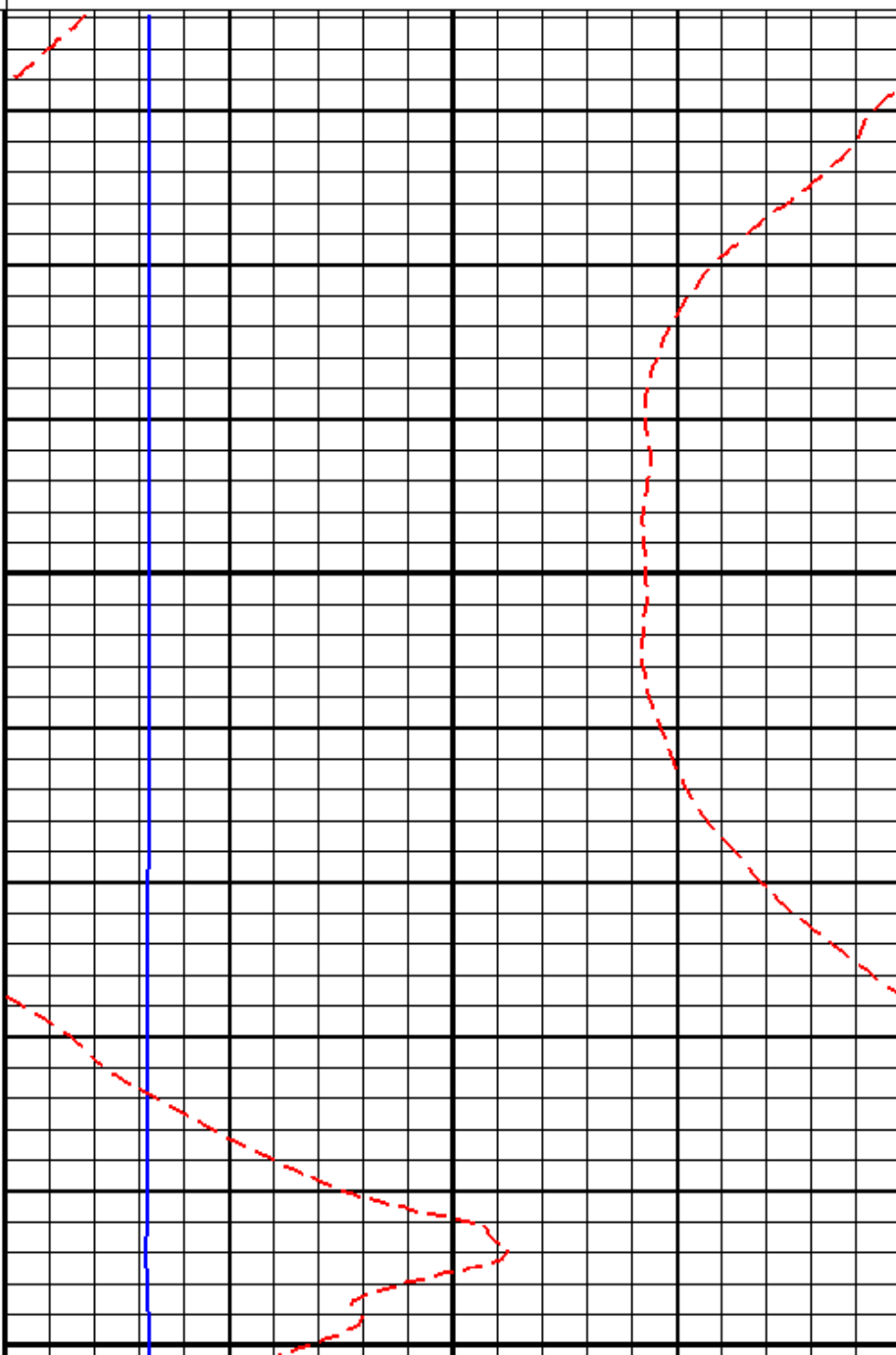
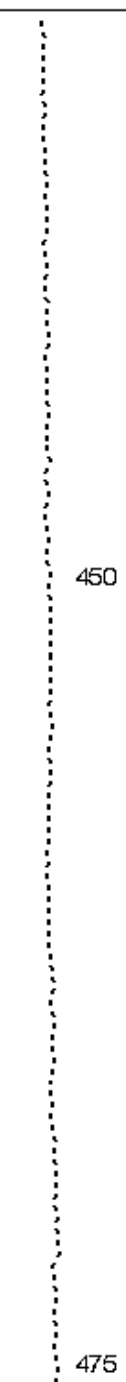
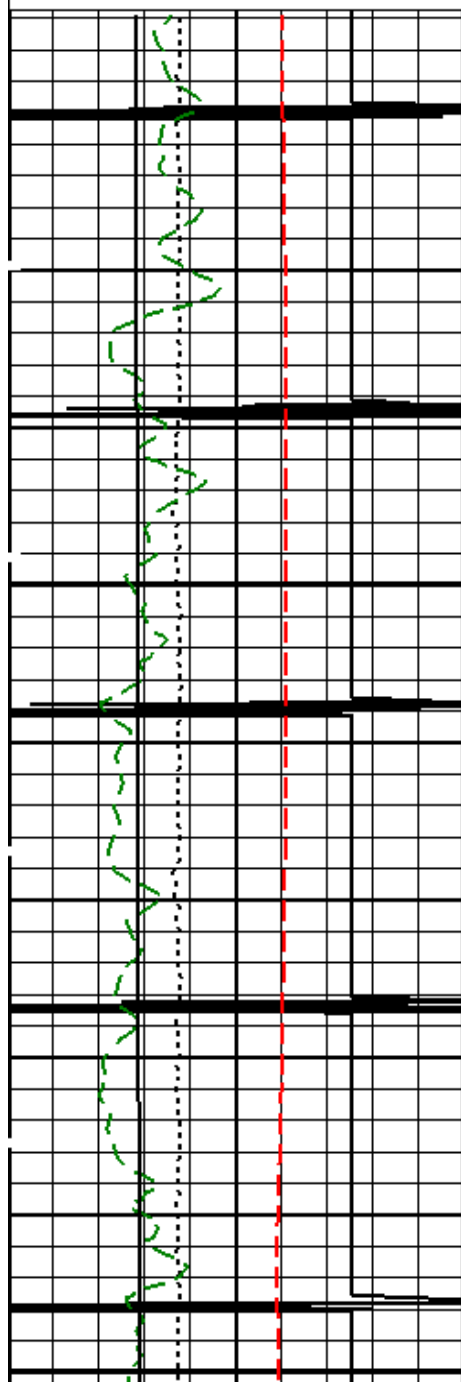
Discriminated CCL (CCLD)
(V) 3 -1

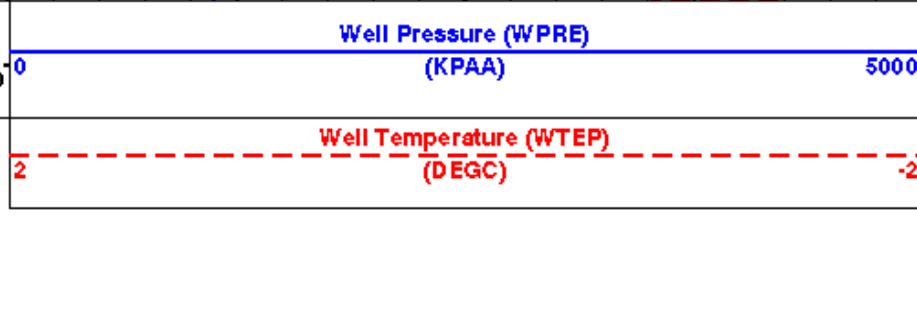
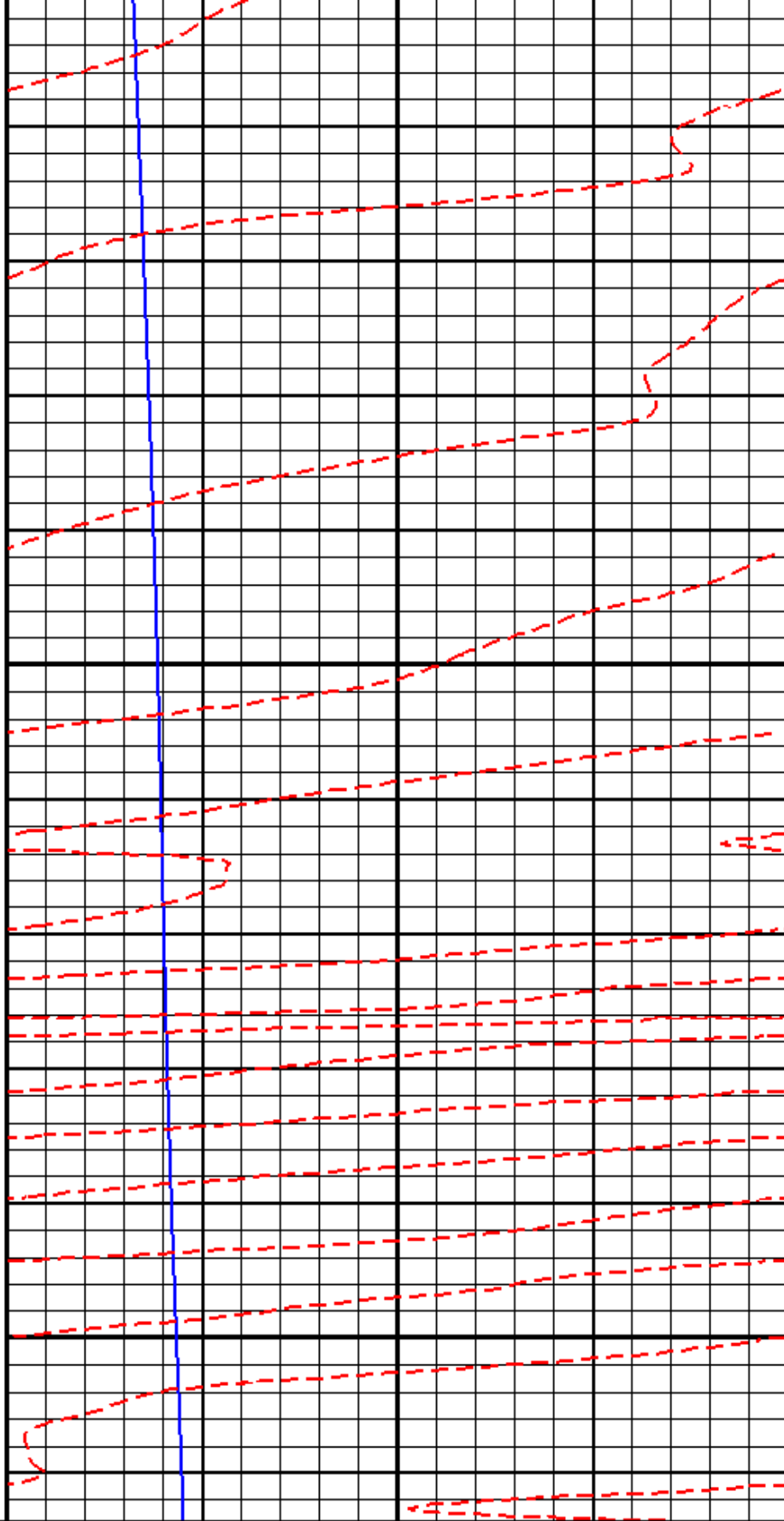
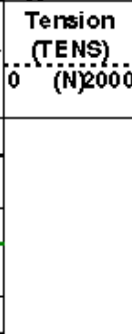
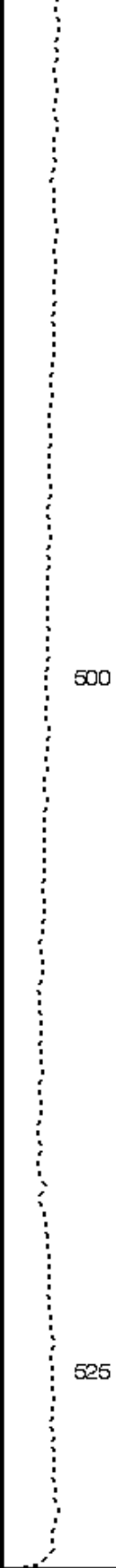
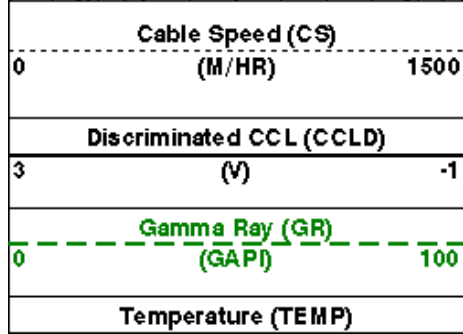
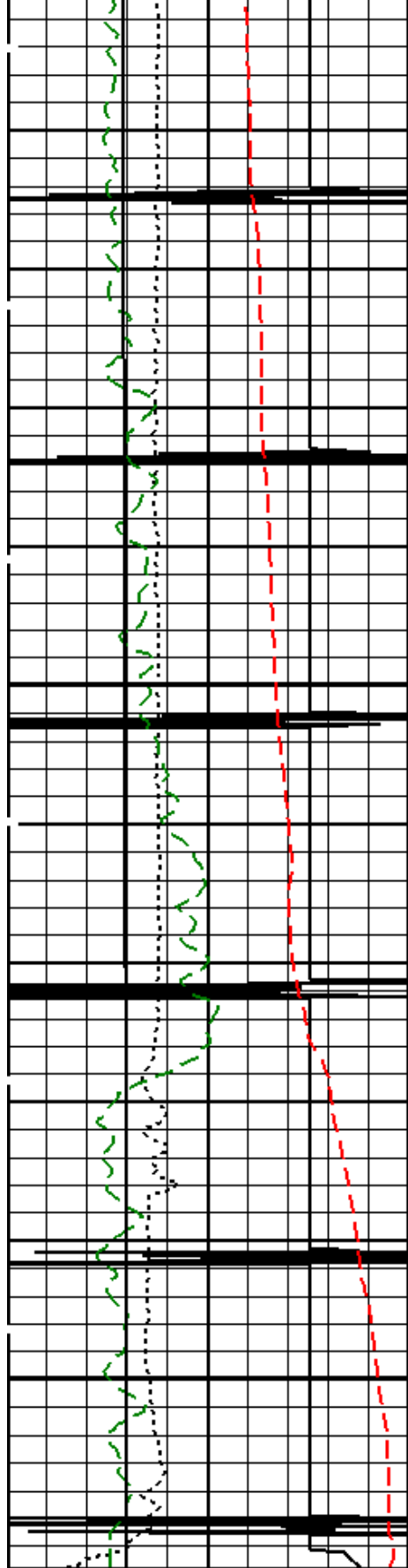
Cable Speed (CS)
(M/HR) 0 1500

Tension
(TENS)
(N) 0 2000

Well Temperature (WTEP)
(DEGC) 2 -2

Well Pressure (WPRE)
(KPAA) 0 5000





0	(DEGC)	100
Well Temperature (WTEP) (DEGC)		
0		150

PIP SUMMARY

Time Mark Every 60 S

Format: PSP_1 Vertical Scale: 1:240

Graphics File Created: 09-Dec-2016 12:04

OP System Version: 19C2-270

HBMS-B 19C2-270

Parameters

DLIS Name	Description	Value	
HBMS-B: High Temperature PSP Basic Measurement Sonde			
BHT	Bottom Hole Temperature (used in calculations)	100	DEGC
GGRD	Geothermal Gradient	0.018227	DC/M
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	20	DEGC
RQL: RSTPro Reservoir Quick Look			
BHT	Bottom Hole Temperature (used in calculations)	100	DEGC
GGRD	Geothermal Gradient	0.018227	DC/M
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	20	DEGC
System and Miscellaneous			
DO	Depth Offset for Playback	1.9	M
PP	Playback Processing	NORMAL	
TD	Total Depth	-50000	M

Input DLIS Files

DEFAULT HBMS_010LUP FN:8 PRODUCER 09-Dec-2016 11:49 529.9 M 429.9 M

Output DLIS Files

DEFAULT HBMS_011PUP FN:9 PRODUCER 09-Dec-2016 12:04

Company: IMPERIAL OIL RESOURCES

Schlumberger

Well: IMP 12 NO2-10 COLD LK 3-36-66-3

Field: UNDEFINED

County: ALBERTA

State: **MD**

TEMPERATURE LOG