



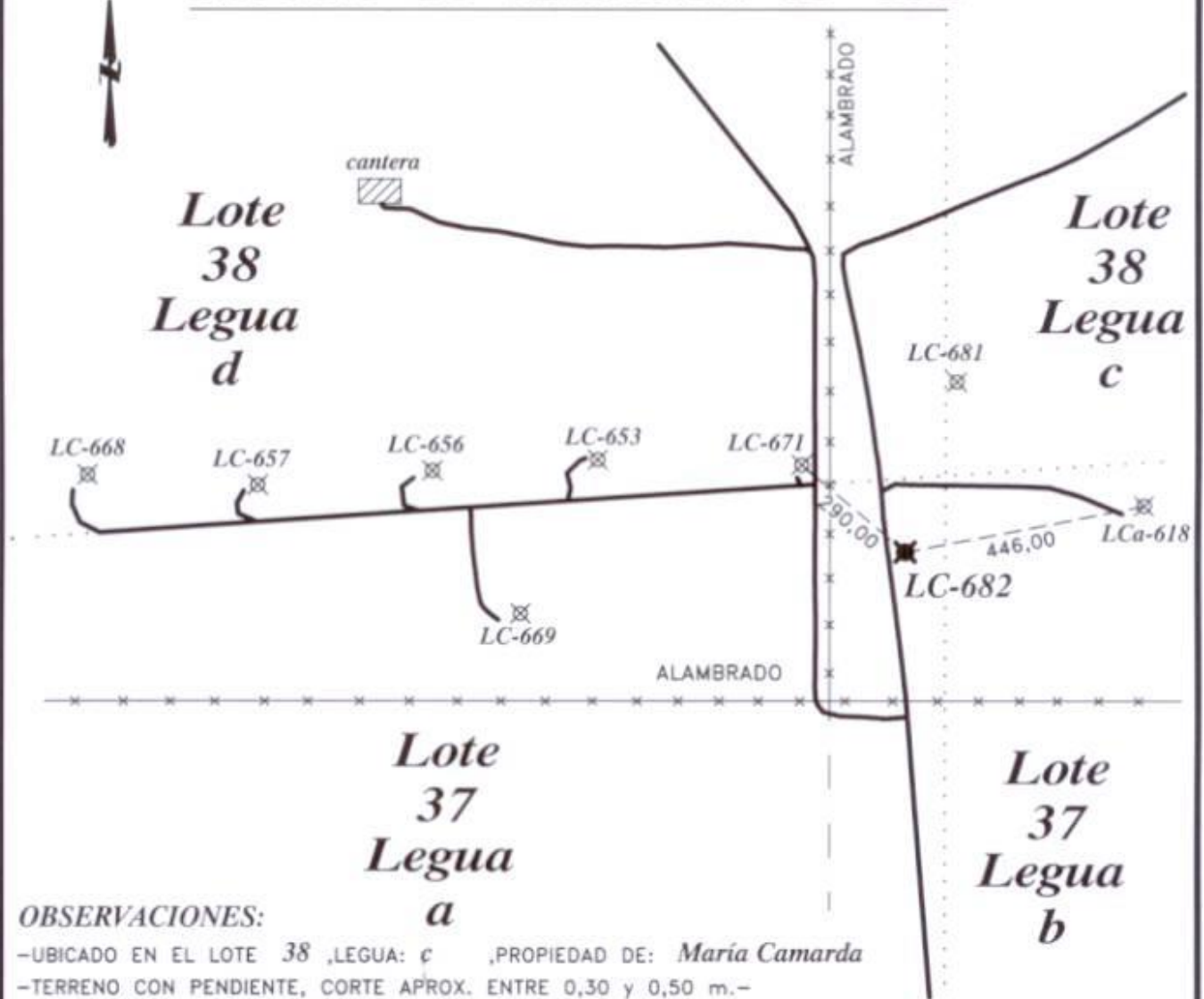
Legajos del Pozo LC-682

GUILLERMO D. SILVESTRE
 AGRIMENSOR
 Ameghino N° 1.101 - Tel/Fax: (0297)-4441220
 COMODORO RIVADAVIA

Schlumberger

COORDENADAS TEORICAS PROVISORIAS

CROQUIS DE UBICACION LC-682



OBSERVACIONES:

- UBICADO EN EL LOTE 38 ,LEGUA: c ,PROPIEDAD DE: *María Camarda*
- TERRENO CON PENDIENTE, CORTE APROX. ENTRE 0,30 y 0,50 m.-
- LAS MEDIDAS LINEALES ESTAN EXPRESADAS EN METROS.-

AZIMUT DE ARRANQUE

SE NAVEGO CON UN EQUIPO G.P.S. EN TIEMPO REAL, LAS COORDENADAS PROPUESTAS HASTA SU UBICACION EN EL TERRENO.-

COMPANIA:	REPSOL-YPF
SIGLA:	LC-682
BATERIA:	
FECHA:	17/ENERO/2006
SIST. GEODESICO:	PAMPA DEL CASTILLO
PROVINCIA:	CHUBUT
COORDENADA X:	4.946.267,00
COORDENADA Y:	2.573.388,00
COTA:	431,00 +/- 2,00 m.
OPERADOR:	<i>Guillermo D. Silvestre</i> Agrimensor

COMPANIA: YPF S.A.

POZO: YPF.Ch.LC-682

CAMPO: LA CAROLINA

PROVINCIA: CHUBUT

PAIS: ARGENTINA



ARREGLO INDUCTIVO

ESCALA : 1/1000

AIT-LDL-CNL-CAL
RFT

Elev.: B.V. 435.61 m
N.T. 431.06 m
M.R. 435.31 m

LOCACION

Ref. Permanente: NIVEL DEL TERRENO
Reg. Medido Desde: NIVEL DEL TERRENO
Perforacion Medida Desde: NIVEL DEL TERRENO

Elev.: 431.06 m
0.0 m sobre nivel ref.

UWI:
AR0100006826

Equipo
PI-245

Longitud
X: 4.946.270,33

Latitud
Y: 2.573.426,60

Fecha 14-May-2006

Corrida No. 1

Prof. Perforador 1300 m

Prof. Registro 1304 m

Primera Lectura 1301.1 m

Ultima Lectura 114.5 m

Fondo Tuberia Perforador 9.625 in @ 113.85 m

Fondo Tuberia Registro 114.5 m

Diametro Trepano 8.750 in

Tipo De Lodo IDCAP - YESO

Densidad 1.18 g/cm3 55 s

Perdidas PH 6 cm3 8

Fuente Muestra De Lodo PILETA

RM @ Temp. 1.500 ohm.m @ 13 degC

RMF @ Temp. 1.050 ohm.m @ 13 degC

RMG @ Temp. 2.020 ohm.m @ 13 degC

Fuente: RMF RMC PRENSA PRENSA

RM @ T. Fdo. RMF @ T. Fdo. 0.668 @ 56 0.465 @ 56

Temp. Maxima Medida 56 degC

Circulacion Final 14-May-2006 5:15

Registro Fondo 14-May-2006 12:30

Unidad No. 3122 ARCS

Registrado por: O. ETCHEVERRY / V. RODRIGUEZ

Testigo ANIBAL SILVEIRA

Run 1

Run 2

Run 3

Logging Date

Run Number

Depth Driller

Logger Depth

Bottom Log Interval

Top Log Interval

Casing Driller Size @ Depth

Casing Logger

Bit Size

Type Fluid In Hole

Density

Fluid Loss

Source Of Sample

RM @ Measured Temperature

RMF @ Measured Temperature

RMG @ Measured Temperature

Source RMF RMC

RM @ MRT RMF @ MRT

Maximum Recorded Temperatures

Circulation Stopped

Logger On Bottom

Unit Number

Recorded By

Witnessed By

DEPTH SUMMARY LISTING

Date Created: 15-MAY-2006 14:19:13

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B	Type: CMTD-B/A	Type: 7-42P-XS
Serial Number: 4810	Serial Number: 2193	Serial Number: 4127
Calibration Date: 6-Abril-2005	Calibration Date: 2-Mayo-2006	Length: 4799.99 M
Calibrator Serial Number: 31	Calibrator Serial Number: 1028	Conveyance Method: Wireline Rig Type: LAND
Calibration Cable Type: 7-42P-XS	Calibration Gain: 1.01	
Wheel Correction 1: -3	Calibration Offset: 582.00	
Wheel Correction 2: -4		

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: 1.00 M
Tool Zero Check At Surface: 0.10 M

Depth Control Remarks

1. Primera corrida en el pozo y perfil de referencia de profundidad.
2. Procedimiento Estandar de Control de Profundidad de Schlumberger aplicado a esta carrera.
3.
4.
5.
6.

LIMITACION DE RESPONSABILIDAD

LA UTILIZACION Y CONFIANZA EN LOS DATOS AQUI GRABADOS POR PARTE DE LA NOMBRADA COMPANIA (Y POR CUALQUIERA DE SUS SUBSIDIARIAS, AFILIADAS, REPRESENTANTES, AGENTES, CONSULTORES Y EMPLEADOS) ESTA SUJETA A LOS TERMINOS Y CONDICIONES ACORDADOS ENTRE SCHLUMBERGER Y LA COMPANIA, INCLUYENDO: (a) RESTRICCIONES EN EL USO DE LOS DATOS GRABADOS; (b) LIMITACION DE RESPONSABILIDAD Y REVOCACION DE GARANTIAS EN RELACION A LA UTILIZACION Y CONFIANZA EN LOS DATOS GRABADOS POR PARTE DE LA COMPANIA, Y (c) LA SOLA Y TOTAL RESPONSABILIDAD DEL CLIENTE POR CUALQUIER INTERPRETACION HECHA O DECISION BASADA EN EL USO DE ESTOS DATOS.

OTROS SERVICIOS # 1	OTROS SERVICIOS # 2
OS1: AIT-LDL-CNL-CAL	OS1:
OS2: RFT	OS2:
OS3:	OS3:
OS4:	OS4:
OS5: PI-245	OS5:

OBSERVACIONES: CORRIDA # 1	OBSERVACIONES: CORRIDA # 2
1. Primera corrida en el pozo y perfil de referencia de profundidad.	
2. Herramienta corrida segun diagrama. AIT descentralizado utilizando standoffs de 1.5 ".	
3. Esquema de pozo segun datos del perforador.	
4. Coordenadas definitivas.	
5. Maxima desviacion del pozo 1.5 deg, segun datos del perforador.	
6. Maxima temperatura registrada 56 degC tomada de termometro en punta de herramienta.	
7. Datos adicionales del lodo: Cl = 600 ppm. Ca= 600 ppm.	

8. Ultima circulacion termino el dia 14-Mayo-2006 a las 5:15 hs. y duro por 1 hr.

9. FPHI = DPHZ, FNUM = 0, 81 y FEXP = 2 utilizados para el calculo de RWA.

10. LDL y CNL corridos hasta 750 m. a pedido del cliente.

11. LDL y CNL afectados en zonas de mal caliper

CORRIDA #1			CORRIDA #2		
ORDEN DE SERVICIO:			ORDEN DE SERVICIO:		
VERSION DEL PROGRAMA:			VERSION DEL PROGRAMA:		
NIVEL DEL LODO:			NIVEL DEL LODO:		
13C0-300		0 m			
INTERVALO REGISTRADO	COMIENZO	FINAL	INTERVALO REGISTRADO	COMIENZO	FINAL

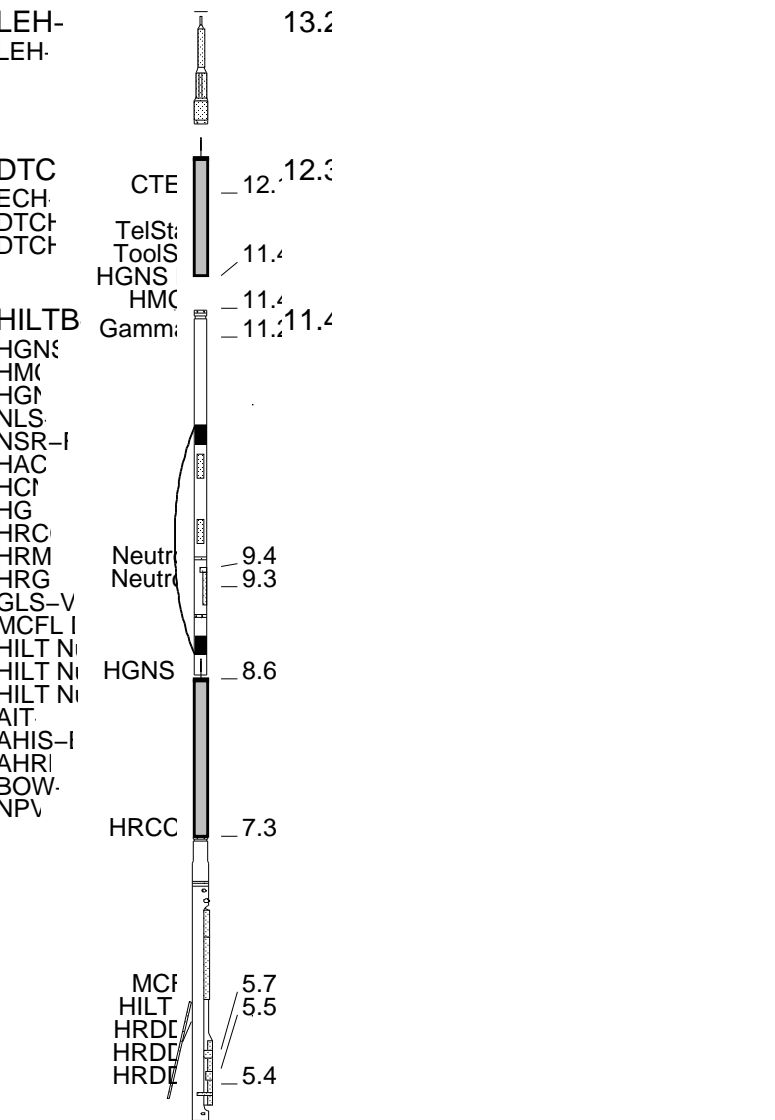
DESCRIPCION DEL EQUIPO

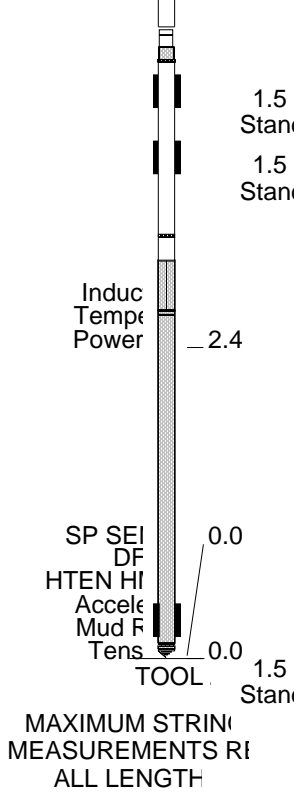
CORRIDA # 1CORRIDA # 2

SURFACE I
WITM (

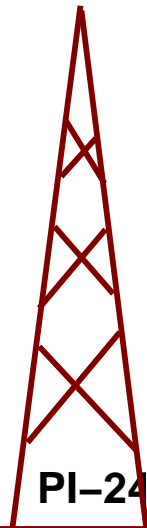
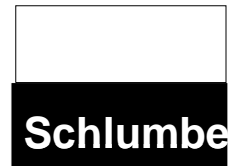
GSR-
NCT
CNB-
NCS

DOWNHOLE





YPF.Ch.LC



Altura Mesa: 4

Nivel Terr ←

Nivel Refere

Casing 9" 32.3 Lb/ft →

Zapato @ 113. →

Cota: 431,0

Trepano →
8 3/4" @

1300 r

Nivel M

Schlumberger

TRAMO PRINCIPAL

MAXIS Field Log

Input DLIS Files

DEFAULT	Main_014LUP	FN:16	PRODUCER	14-May-2006 19:04	1307.6 M	65.4 M
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_056PUP	FN:2	PRODUCER	15-May-2006 10:40	1307.6 M	105.0 M
CLIENT	AIT_TLD_MCFL_CNL_056PUC	FN:3	CUSTOMER	15-May-2006 10:40	1307.6 M	105.0 M

OP System Version: 13C0-300
MCM

HILTB-FTB	SRPC-2718-HILT	DTC-H	13C0-300
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Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
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SPDR

0 MV/M
0.035 MV/M
0 MV/M

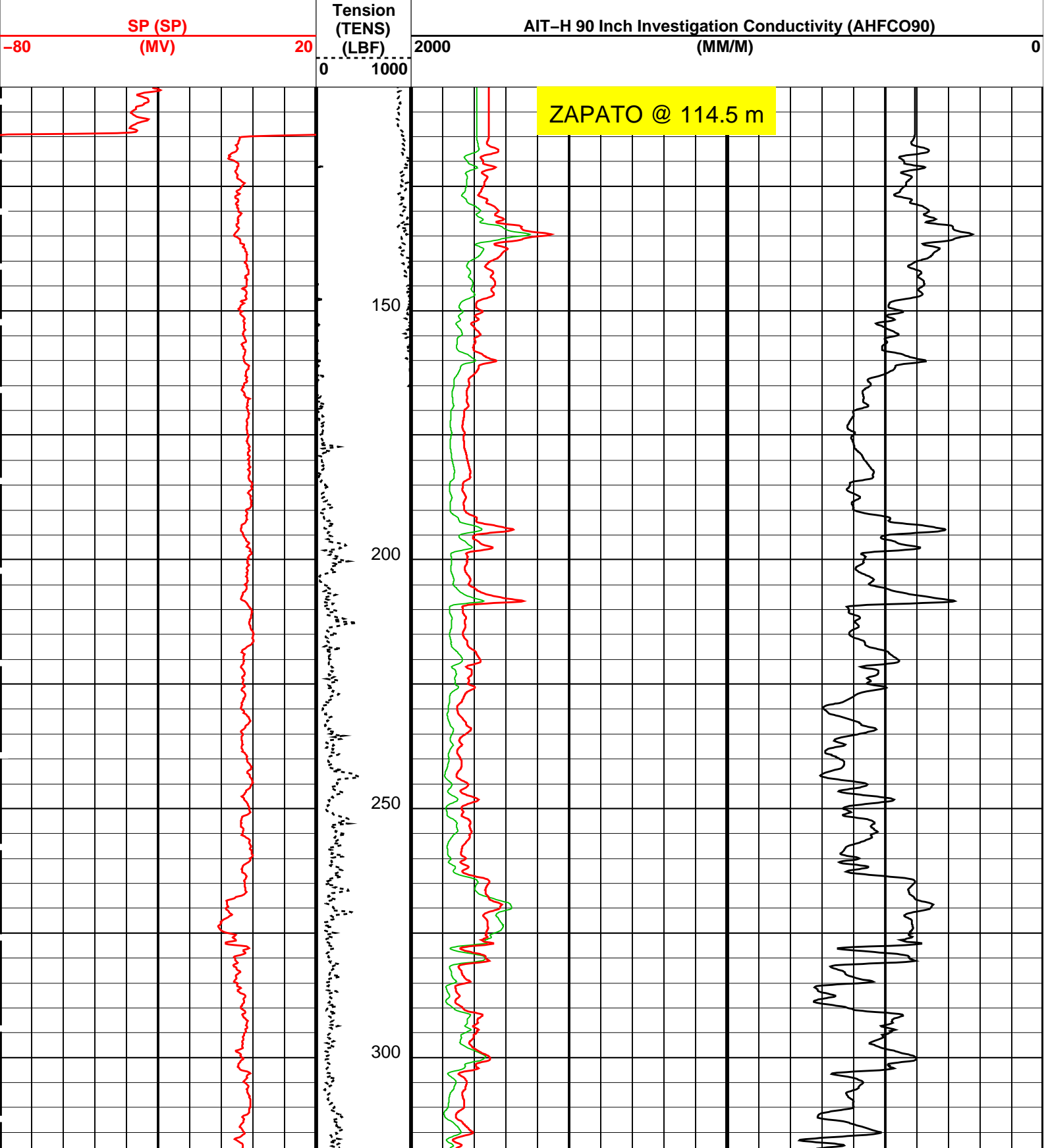
0 MV/M
0 MV/M
0.035 MV/M

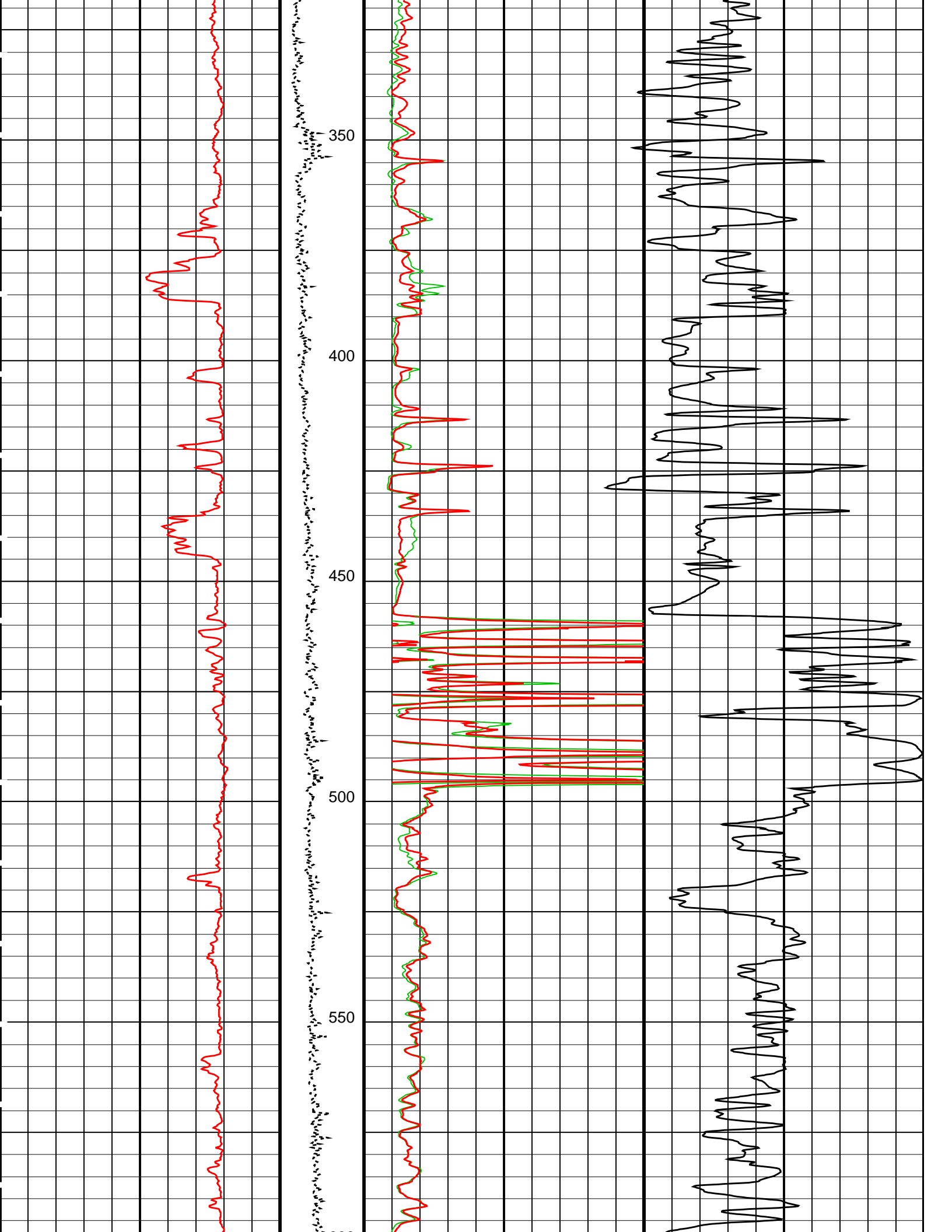
1307.6 10:40:34
949.9 10:41:12
874.9 10:41:20

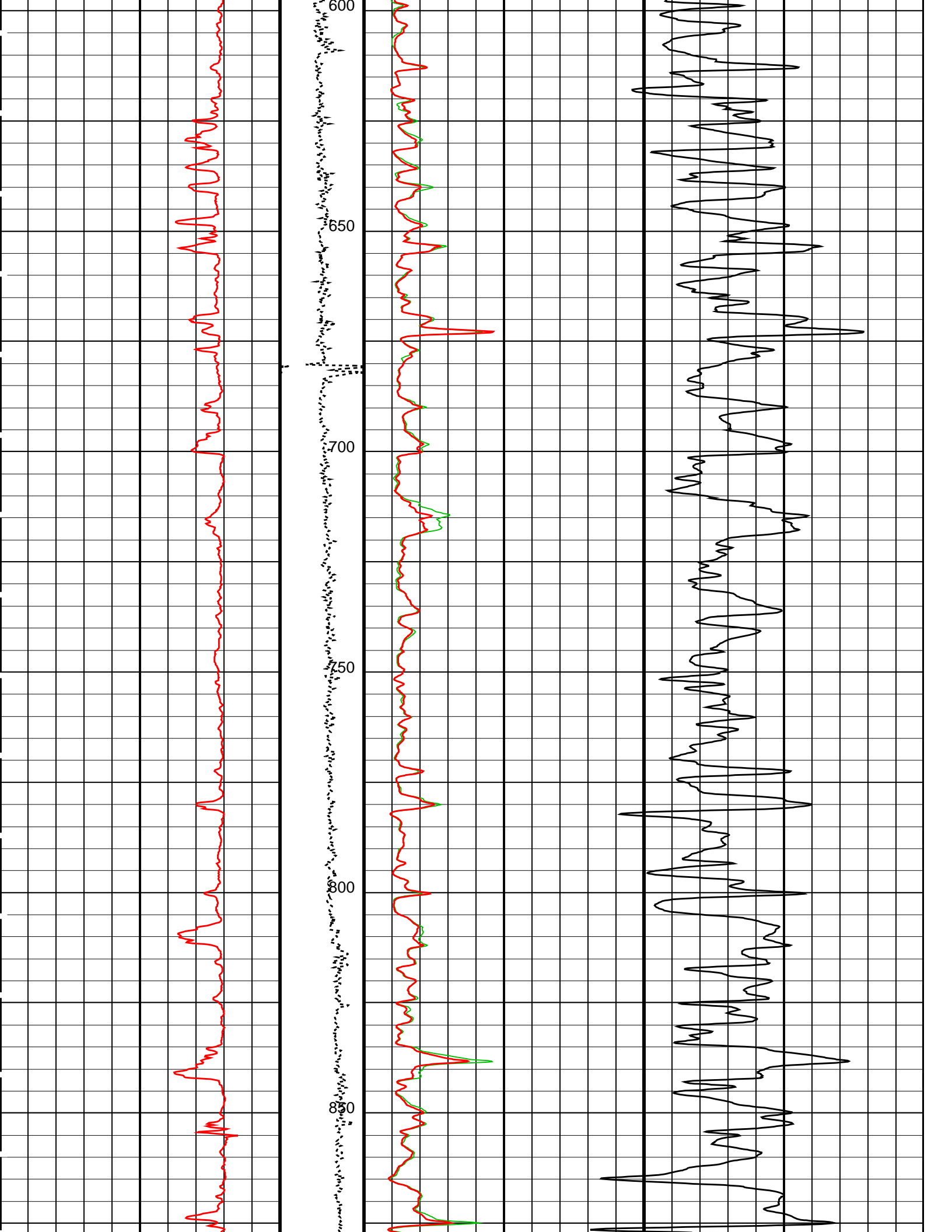
PIP SUMMARY

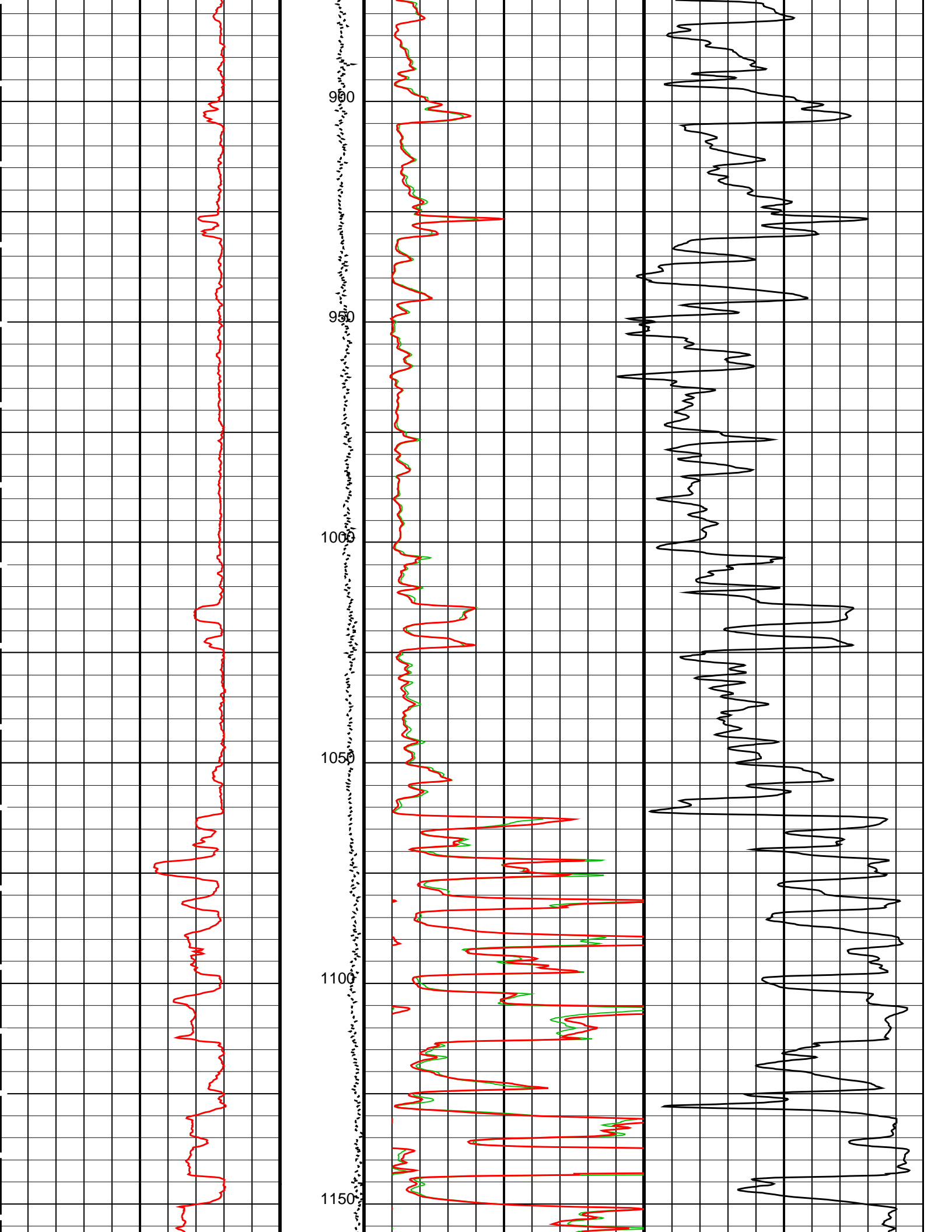
Time Mark Every 60 S

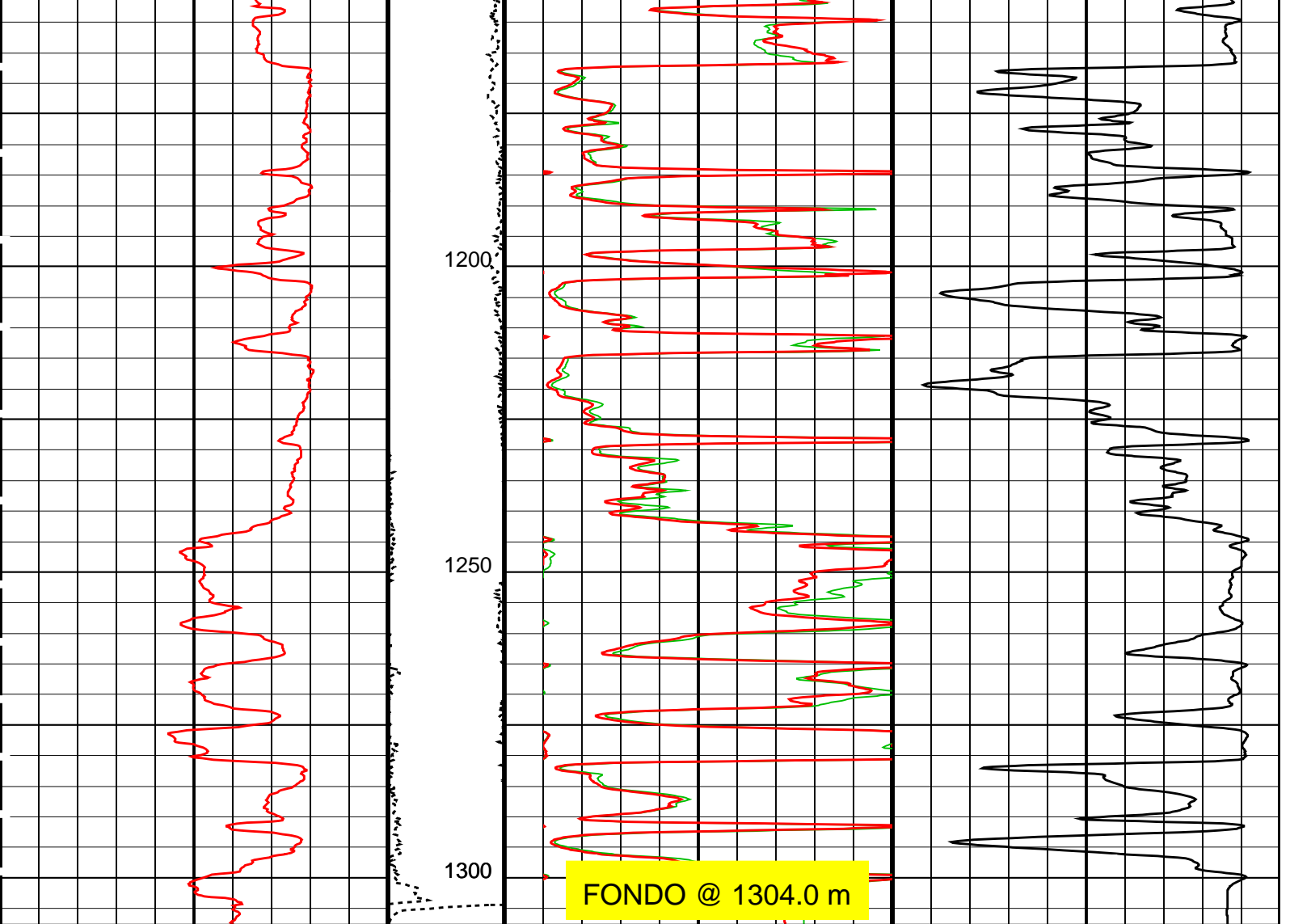
AIT-H 90 Inch Investigation (AHF90)		
0	(OHMM)	10
AIT-H 10 Inch Investigation (AHF10)		
0	(OHMM)	10











SP (SP) (MV)	Tension (TENS) (LBF)	AIT-H 90 Inch Investigation Conductivity (AHFCO90) (MM/M)
-80 20	2000 0 1000	2000 0

AIT-H 10 Inch Investigation (AHF10)	
0	10
(OHMM)	
AIT-H 90 Inch Investigation (AHF90)	
0	10
(OHMM)	

PIP SUMMARY

Time Mark Every 60 S

AIT-H Answer Product Processing Summary. Data taken with Tool # 379 (AHTNO)

...Acquired data from HILT/HAIT

***** Borehole Correction *****

Effective Tool Standoff computed. Borehole diameter and mud res. taken as input (see GCSE and GRSE parameters)

Tool is run in ECCENTERED mode with a tool stand-off of 1.50 IN. Bit Size is 8.75 IN.

***** Input Selections to AIT-H Answer Product Processing *****

Caliper (GCSE): HCAL Mud Resistivity (GRSE): AHMF Temperature (GTSE): HTEM Porosity (FPHI): DPHZ

***** Other Parameters used by AIT-H Answer Product Processing *****

Form Factor Exponent (FEXP) 2.000 Form Factor Numerator (FNUM) 0.810
Mud Filtrate Sample Resistivity (RMFS) 1.050 OHMM Mud Filtrate Sample Temperature (MFST) 12.800 DEGC
Resitivity Connate Water (RW) 1.000 OHMM

***** AIT-H Answer Product Processing Control Parameters *****

Playback Mode: NORMAL

Parameters

DLIS Name	Description	Value	
HILTB-FTB: High resolution Integrated Logging Tool-DTS			
AHBHM	Array Induction Borehole Correction Mode	2_ComputeStandoff	
AHBHV	Array Induction Borehole Correction Code Version Number	880	
AHBLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
AHBLV	Array Induction Basic Logs Code Version Number	108	
AHCDE	Array Induction Casing Detection Enable	Yes	
AHCEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
AHFRSV	Array Induction Response Set Version for Four ft Resolution	40.70.24.21	
AHMRF	Array Induction Mud Resistivity Factor	1	
AHORSV	Array Induction Response Set Version for One ft Resolution	40.70.24.21	
AHRFV	Array Induction Radial Profiling Code Version Number	700	
AHRPV	Array Induction Radial Parametrization Code Version Number	223	
AHSTA	Array Induction Tool Standoff	1.5	IN
AHTRSV	Array Induction Response Set Version for Two ft Resolution	40.70.24.21	
BHT	Bottom Hole Temperature (used in calculations)	56	DEGC
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	0.81	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	20	DEGC
SPDR	SP Drift	0	MV/M
SPNV	SP Next Value	-20	MV
RWA: Apparent Water Resistivity			
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	0.81	
HOLEV: Integrated Hole/Cement Volume			
BHT	Bottom Hole Temperature (used in calculations)	56	DEGC
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	20	DEGC
System and Miscellaneous			
BS	Bit Size	8.750	IN
DFD	Drilling Fluid Density	1.18	G/C3
DO	Depth Offset for Playback	0.0	M
MST	Mud Sample Temperature	13.00	DEGC
PP	Playback Processing	NORMAL	
TD	Total Depth	1304	M

Format: AITMIL Vertical Scale: 1:1000 Graphics File Created: 15-May-2006 10:40

OP System Version: 13C0-300

MCM

HILTB-FTB SRPC-2718-HILT DTC-H 13C0-300

Input DLIS Files

DEFAULT	Main_014LUP	FN:16	PRODUCER	14-May-2006 19:04	1307.6 M	65.4 M
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_056PUP	FN:2	PRODUCER	15-May-2006 10:40
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CLIENT	AIT_TLD_MCFL_CNL_056PUC	FN:3	CUSTOMER	15-May-2006 10:40
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COMPANIA: YPF S.A.

PRIMERA LECTURA	1301.1 m
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PROFUNDIDAD PERFIL	1304 m
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POZO: YPF.Ch.LC-682

PROF. PERFORADOR	1300 m
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CAMPO: LA CAROLINA

BUJE DE VASTAGO	435.61 m
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PROVINCIA: CHUBUT

MESA ROTATIVA	435.31 m
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PAIS: ARGENTINA

NIVEL TERRENO	431.06 m
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ARREGLO INDUCTIVO

COMPANIA: YPF S.A.

POZO: YPF.Ch.LC-682

CAMPO: LA CAROLINA

PROVINCIA: CHUBUT

PAIS: ARGENTINA



COMBINADA
ESCALA : 1/200

Campo: LA CAROLINA
Locacion: CAS
Pozo: YPF.Ch.LC-682
Compania: YPF S.A.

LOCACION		Elev.:	
AIT-LDL-CNL-CAL RFT		B.V. 435.61 m	
Ref. Permanente:	NIVEL DEL TERRENO	N.T. 431.06 m	
Reg. Medido Desde:	NIVEL DEL TERRENO	M.R. 435.31 m	
Perforacion Medida Desde:	NIVEL DEL TERRENO		
UWI: AR0100006826	Equipo PI-245	Longitud X: 4.946,270,33	Latitud Y: 2.573,426,60

Corrida No.	1		
Prof. Perforador	1300 m		
Prof. Registro	1304 m		
Primera Lectura	1301.1 m		
Ultima Lectura	114.5 m		
Fondo Tuberia Perforador	9.625 in	@	113.85 m
Fondo Tuberia Registro	114.5 m		
Diámetro Trepano	8.750 in		
IDCAP - YESO			
Viscosidad	1.18 g/cm3		55 s
PH	6 cm3		8
Fuente Muestra De Lodo	PILETA		
M @ Temp.	1.500 ohm.m	@	13 degC
LMF @ Temp.	1.050 ohm.m	@	13 degC
MMC @ Temp.	2.020 ohm.m	@	13 degC
Fuente: RMF	PRENSA		
M @ T. Fdo.	0.668 @ 56		0.465 @ 56
Temp. Maxima Medida	56 degC		
Circulacion Final	14-May-2006		5:15
Registro Fondo	14-May-2006		12:30
Unidad No.	3122	ARCS	
Registrado por:	O. ETCHEVERRY / V. RODRIGUEZ		
Apellido	ANIBAL SILVEIRA		

Logging Date	Run 1	Run 2	Run 3
Run Number			
Depth Driller			
Logger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth			
Casing Logger			
Bit Size			
Type Fluid In Hole			
Density			
Fluid Loss			
Source Of Sample			
RM @ Measured Temperature	@		
RMF @ Measured Temperature	@		
RMC @ Measured Temperature	@		
Source RMF	RMC		
RM @ MRT	RMF @ MRT	@	@
Maximum Recorded Temperatures			
Circulation Stopped	Time		
Logger On Bottom	Time		
Unit Number	Location		
Recorded By			
Witnessed By			

DEPTH SUMMARY LISTING

Date Created: 14-MAY-2006 18:27:56

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B	Type: CMTD-B/A	Type: 7-42P-XS
Serial Number: 4810	Serial Number: 2193	Serial Number: 4127
Calibration Date: 6-Abr-2005	Calibration Date: 2-May-2006	Length: 4600.04 M
Calibrator Serial Number: 31	Calibrator Serial Number: 1028	Conveyance Method: Wireline
Calibration Cable Type: 7-42P-XS	Calibration Gain: 1.01	Rig Type: LAND
Wheel Correction 1: -3	Calibration Offset: 582.00	
Wheel Correction 2: -4		

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	AIT-LDL-CNL-CAL
Reference Log Run Number:	1
Reference Log Date:	14-Mayo-2006

Depth Control Remarks

1. Perfil correlacionado con AIT-LDL-CNL-CALI del dia 14-Mayo-200
2. Procedimiento Estandar de Control de Profundidad de Schlumberger aplicado a esta carrera.
3.
4.
5.
6.

LIMITACION DE RESPONSABILIDAD

LA UTILIZACION Y CONFIANZA EN LOS DATOS AQUI GRABADOS POR PARTE DE LA NOMBRADA COMPANIA (Y POR CUALQUIERA DE SUS SUBSIDIARIAS, AFILIADAS, REPRESENTANTES, AGENTES, CONSULTORES Y EMPLEADOS) ESTA SUJETA A LOS TERMINOS Y CONDICIONES ACORDADOS ENTRE SCHLUMBERGER Y LA COMPANIA, INCLUYENDO: (a) RESTRICCIONES EN EL USO DE LOS DATOS GRABADOS; (b) LIMITACION DE RESPONSABILIDAD Y REVOCACION DE GARANTIAS EN RELACION A LA UTILIZACION Y CONFIANZA EN LOS DATOS GRABADOS POR PARTE DE LA COMPANIA, Y (c) LA SOLA Y TOTAL RESPONSABILIDAD DEL CLIENTE POR CUALQUIER INTERPRETACION HECHA O DECISION BASADA EN EL USO DE ESTOS DATOS.

OTROS SERVICIOS # 1	OTROS SERVICIOS # 2
OS1: AIT-LDL-CNL-CAL	OS1:
OS2: RFT	OS2:
OS3:	OS3:
OS4:	OS4:
OS5: PI-245	OS5:

OBSERVACIONES: CORRIDA # 1	OBSERVACIONES: CORRIDA # 2
1. Primera corrida en el pozo y perfil de referencia de profundidad.	
2. Herramienta corrida segun diagrama. AIT descentralizado utilizando standoffs de 1.5 ".	
3. Esquema de pozo segun datos del perforador.	
4. Coordenadas definitivas.	
5. Maxima desviacion del pozo 1.5 deg, segun datos del perforador.	
6. Maxima temperatura registrada 56 degC tomada de termometro en punta de herramienta.	
7. Datos adicionales del lodo: Cl = 600 ppm. Ca= 600 ppm.	
8. Ultima circulacion termino el dia 14-Mayo-2006 a las 5:15 hs. y duro por 1 hr.	
9. FPHI = DPHZ. FNUM = 0. 81 v FEXP = 2 utilizados para el calculo de RWA.	

10. LDL y CNL corridos hasta 750 m. a pedido del cliente.

11. LDL y CNL afectados en zonas de mal caliper.

CORRIDA #1

CORRIDA #2

ORDEN DE SERVICIO:
 VERSION DEL PROGRAMA: 13C0-300
 NIVEL DEL LODO: 0 m

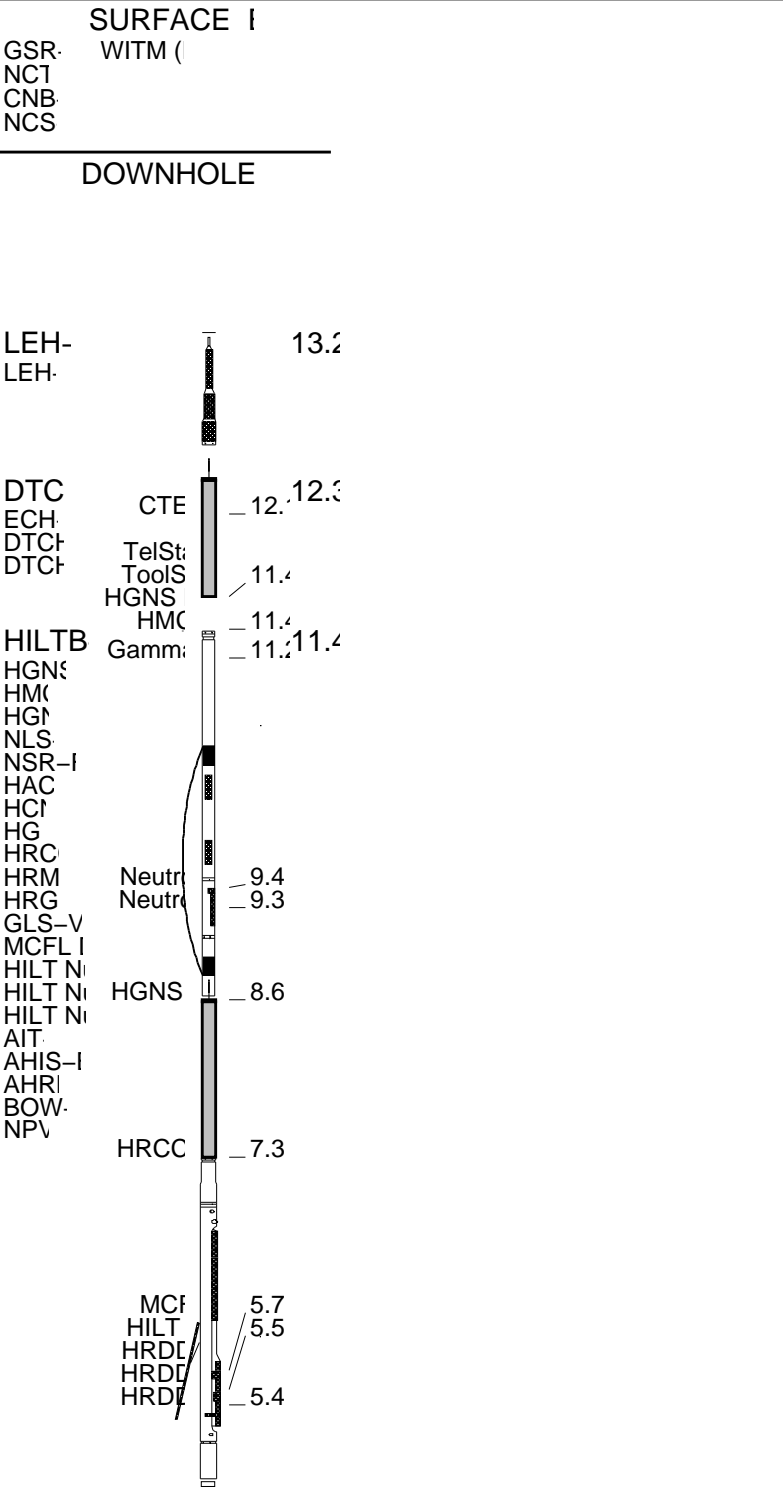
ORDEN DE SERVICIO:
 VERSION DEL PROGRAMA:
 NIVEL DEL LODO:

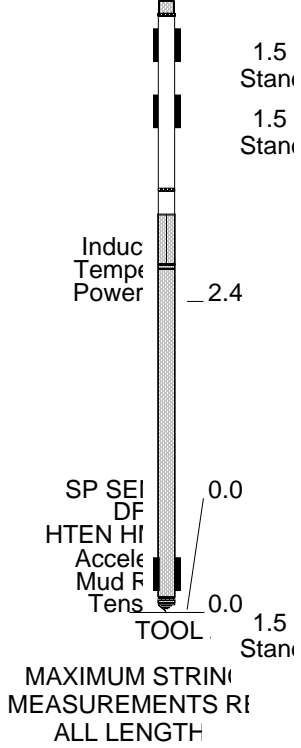
INTERVALO REGISTRADO	COMIENZO	FINAL	INTERVALO REGISTRADO	COMIENZO	FINAL

DESCRIPCION DEL EQUIPO

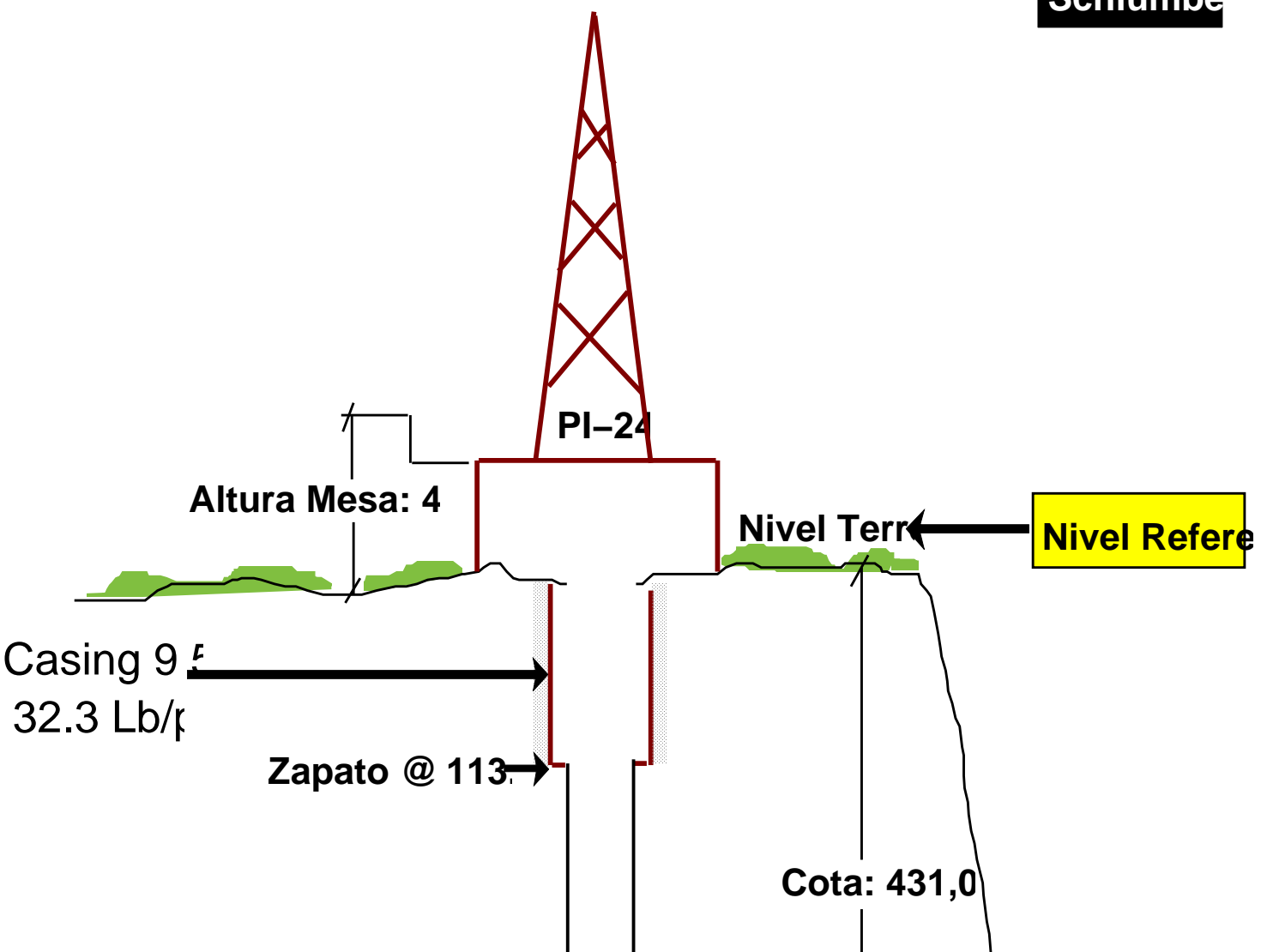
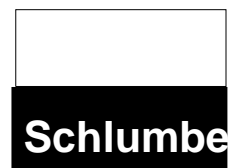
CORRIDA # 1

CORRIDA # 2

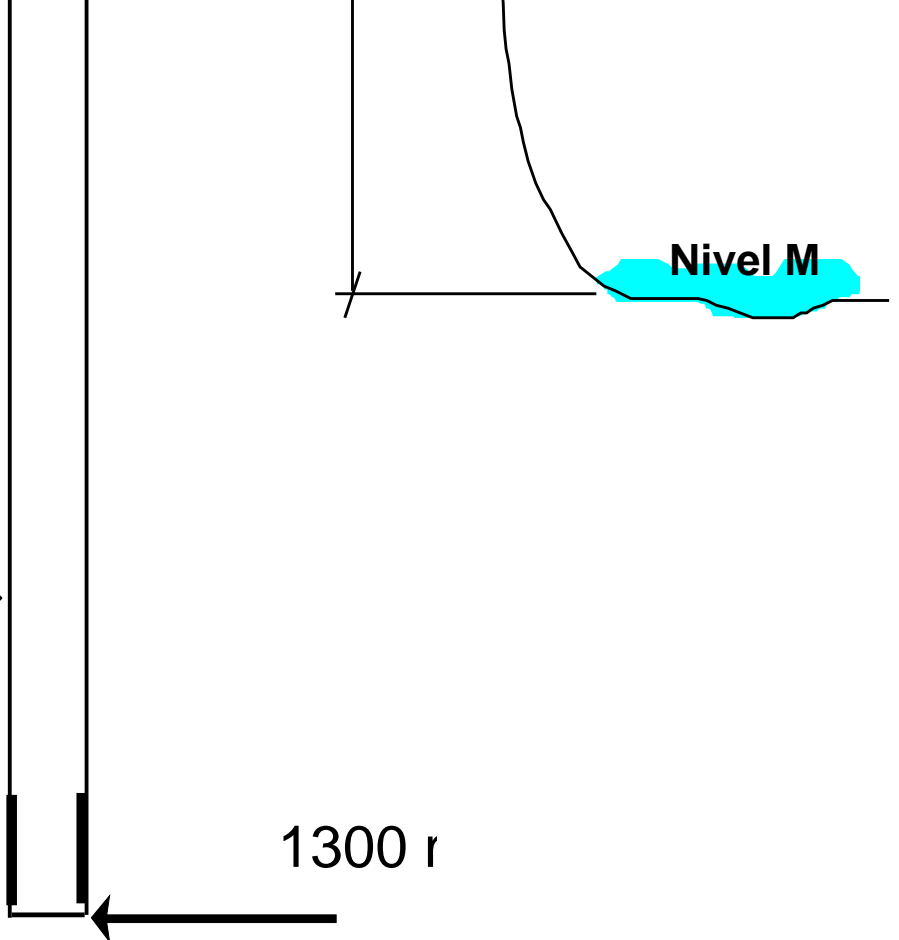




YPF.Ch.LC



Trepano
8 3/4" @



TRAMO PRINCIPAL

MAXIS Field Log

Input DLIS Files

DEFAULT	Main_014LUP	FN:16	PRODUCER	14-May-2006 19:04	1307.6 M	65.4 M
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_056PUP	FN:2	PRODUCER	15-May-2006 10:40	1307.6 M	105.0 M
CLIENT	AIT_TLD_MCFL_CNL_056PUC	FN:3	CUSTOMER	15-May-2006 10:40	1307.6 M	105.0 M

Integrated Hole/Cement Volume Summary

Hole Volume = 47.36 M3
 Cement Volume = 29.12 M3 (assuming 5.50 IN casing O.D.)
 Computed from 1303.9 M to 114.0 M using data channel(s) HCAL

Changed Parameter Summary

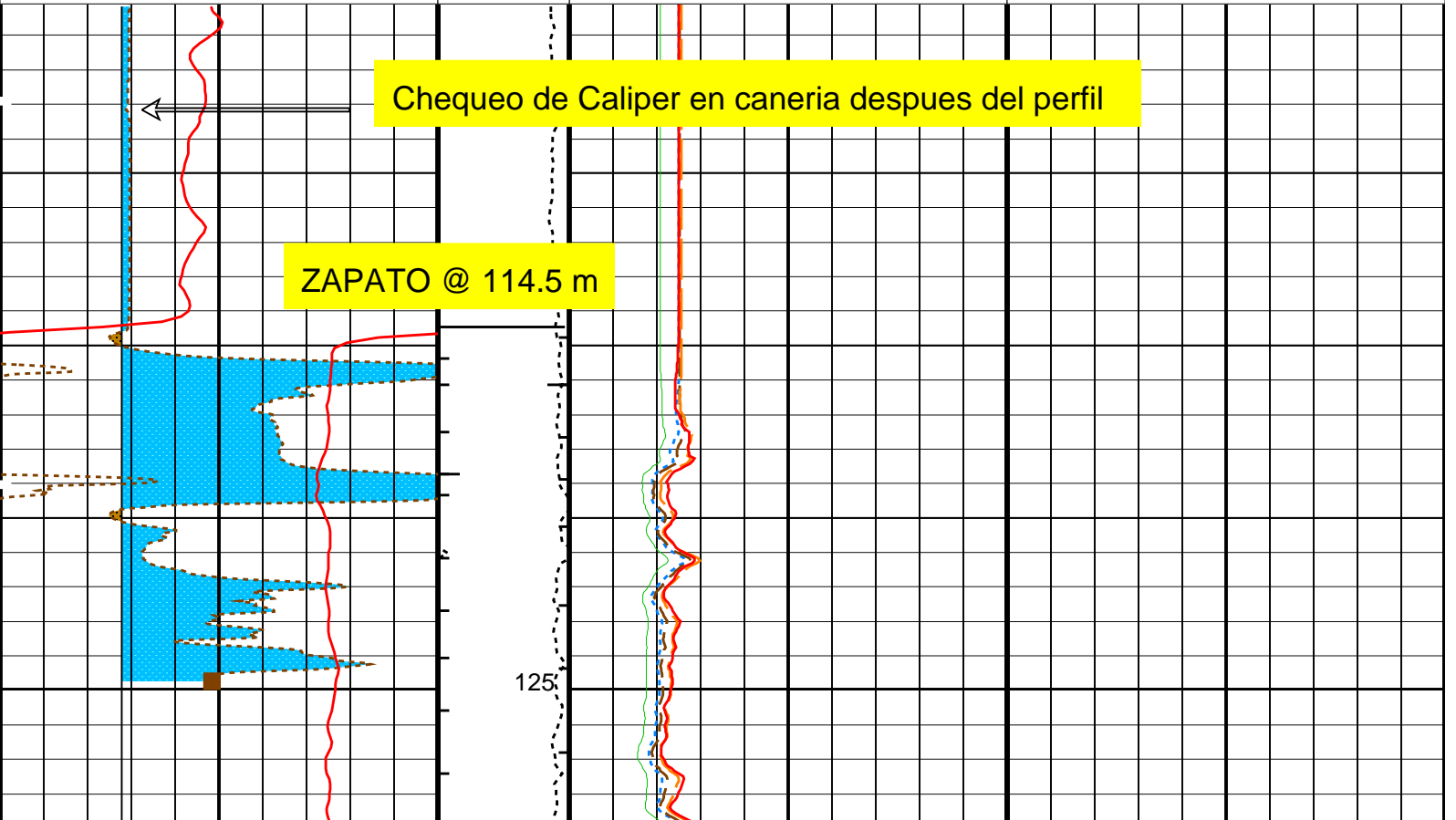
DLIS Name	New Value	Previous Value	Depth & Time
SPDR	0 MV/M	0 MV/M	1307.6 10:40:34
	0.035 MV/M	0 MV/M	949.9 10:41:12
	0 MV/M	0.035 MV/M	874.9 10:41:20

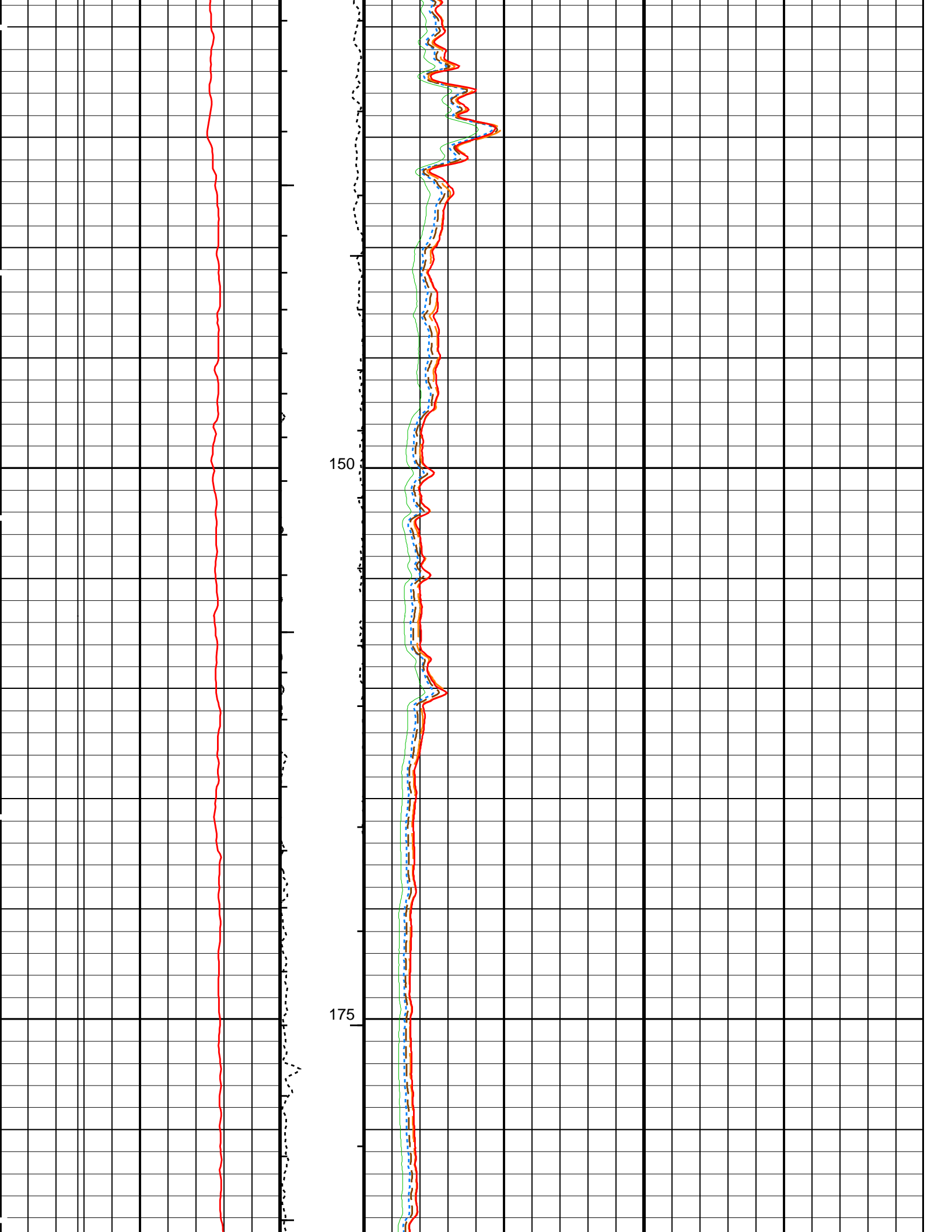
PIP SUMMARY

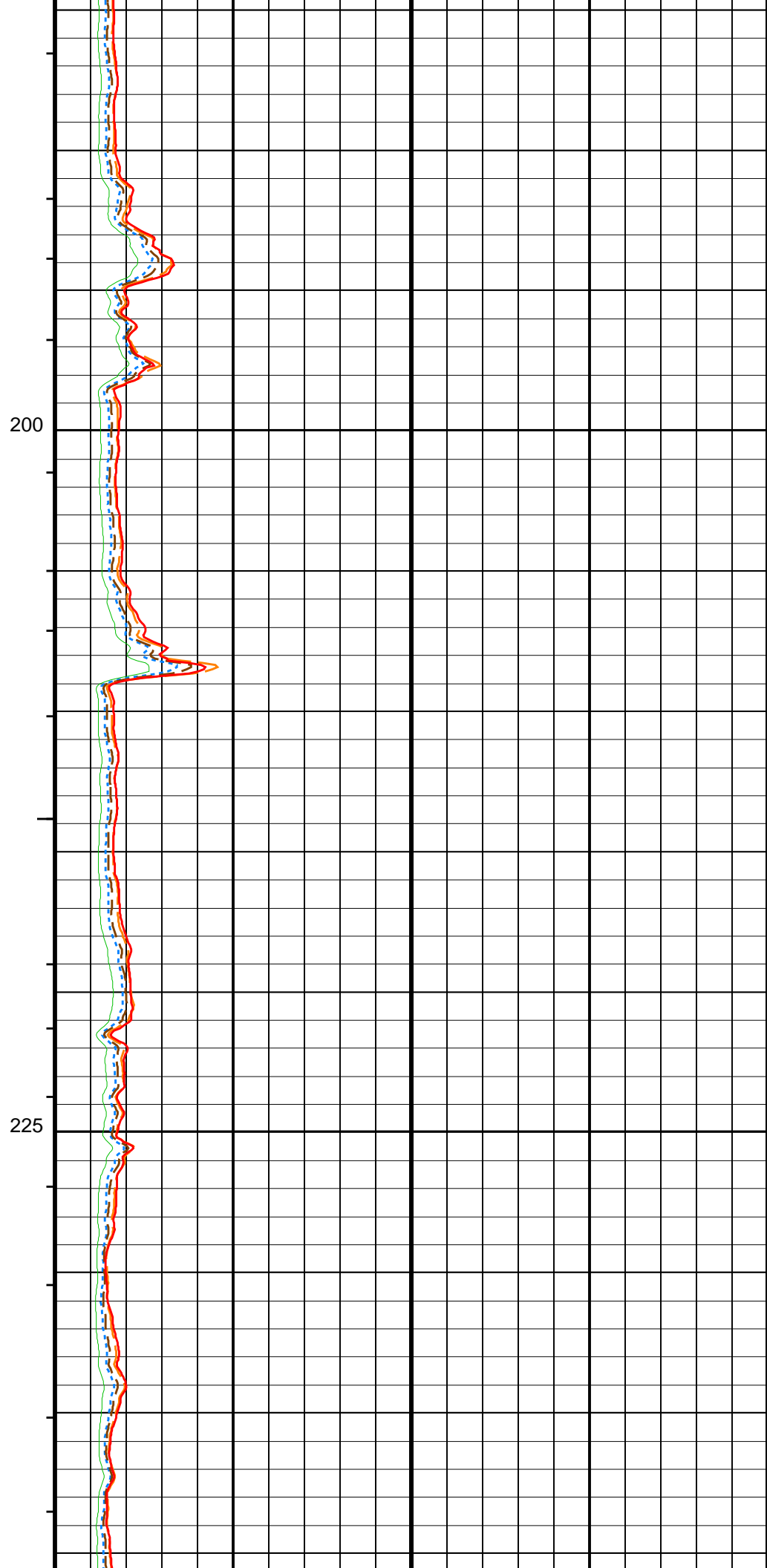
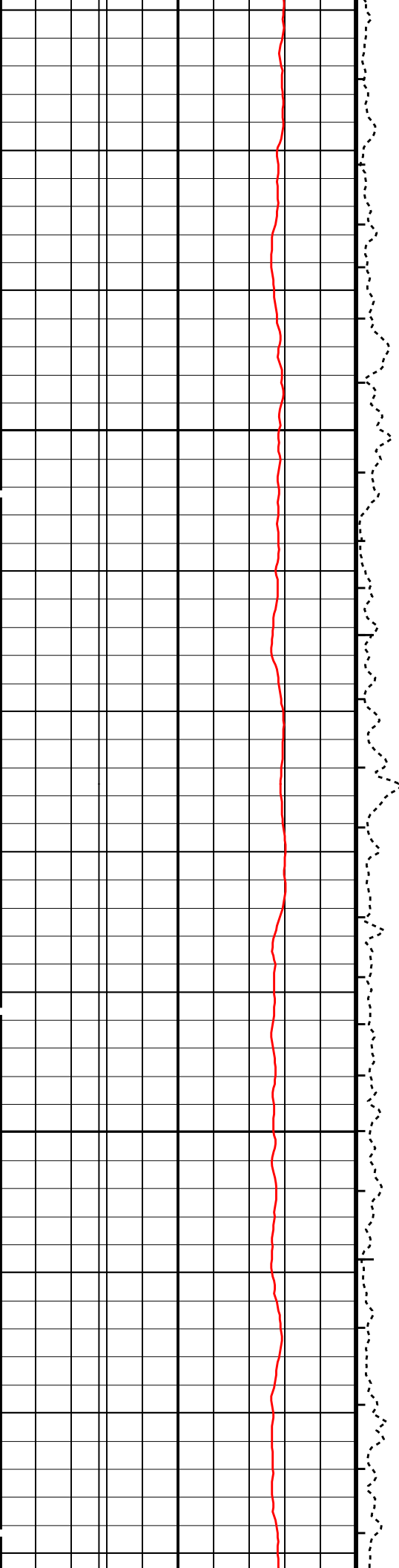
- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Cement Volume Minor Pip Every 0.1 M3
 - └ Integrated Cement Volume Major Pip Every 1 M3

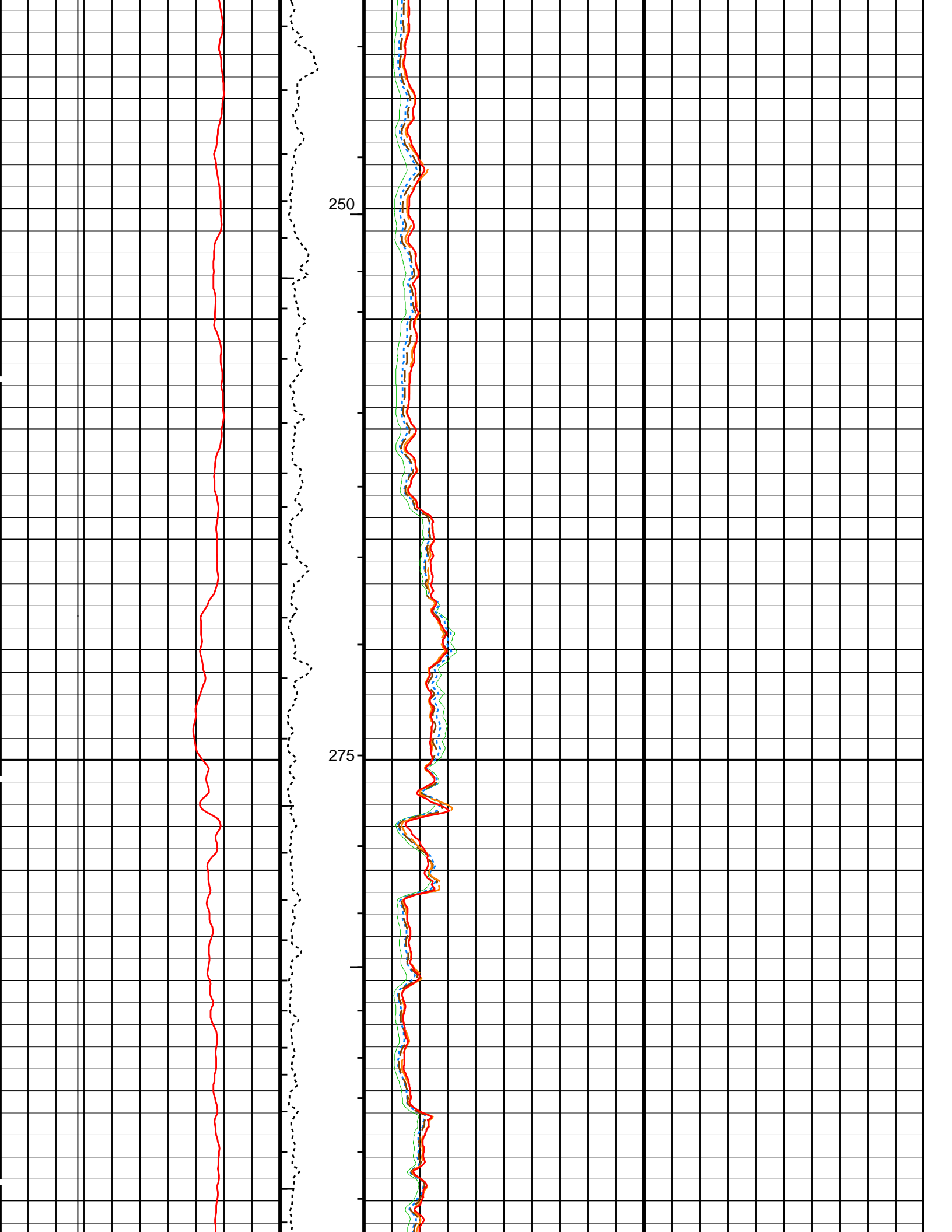
Time Mark Every 60 S

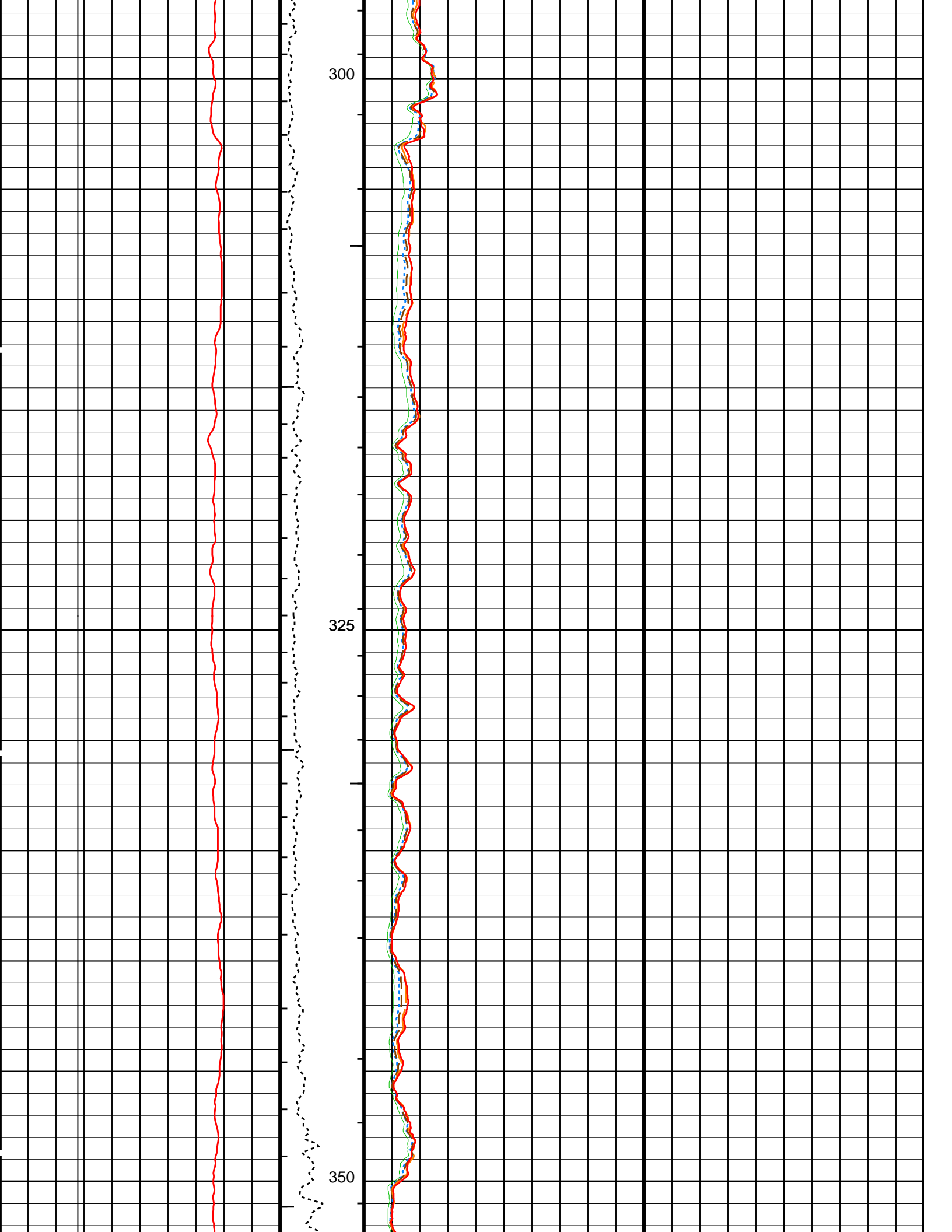
CAVERNA From BS to HCAL			
REVOQUE From HCAL to BS			
SP (SP) (MV)	-80	20	AIT-H 90 Inch Investigation (AHT90) (OHMM)
RWA (RWA) (OHMM)	0	1	AIT-H 60 Inch Investigation (AHT60) (OHMM)
Std. Res. Formation Pe (PEFZ) (----	0	5	AIT-H 30 Inch Investigation (AHT30) (OHMM)
Caliper (HCAL) (IN)	6	16	AIT-H 20 Inch Investigation (AHT20) (OHMM)
Bit Size (BS) (IN)	6	16	AIT-H 10 Inch Investigation (AHT10) (OHMM)
	Stuck Stretch (STIT) (M)	0 20	
	Tension (TENS) (LBF)	0 1000	
			Gas From DPHZ to TNPH
			Env.Corr.Thermal Neutron Porosity (TNPH) (V/V)
			Std. Res. Density Porosity (DPHZ) (V/V)

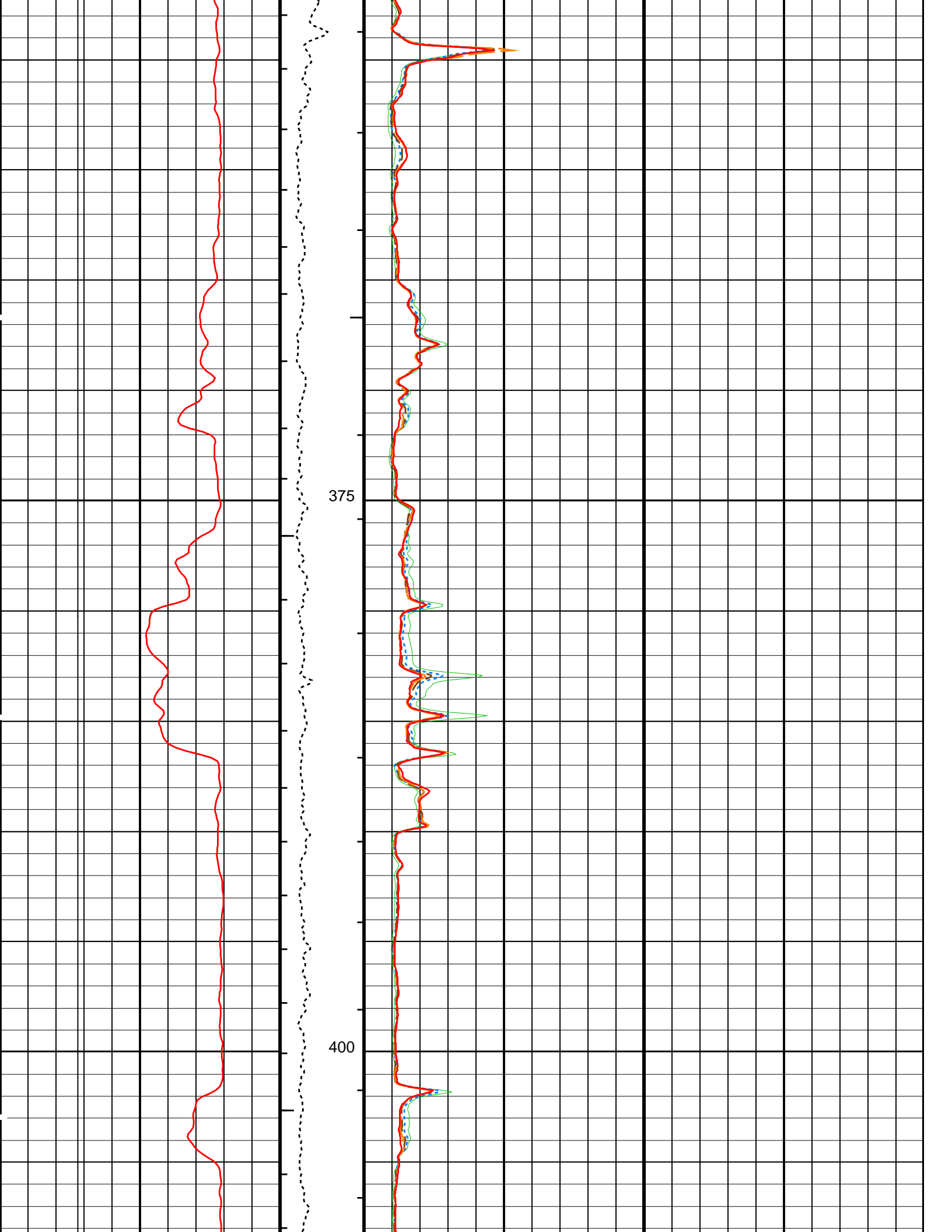


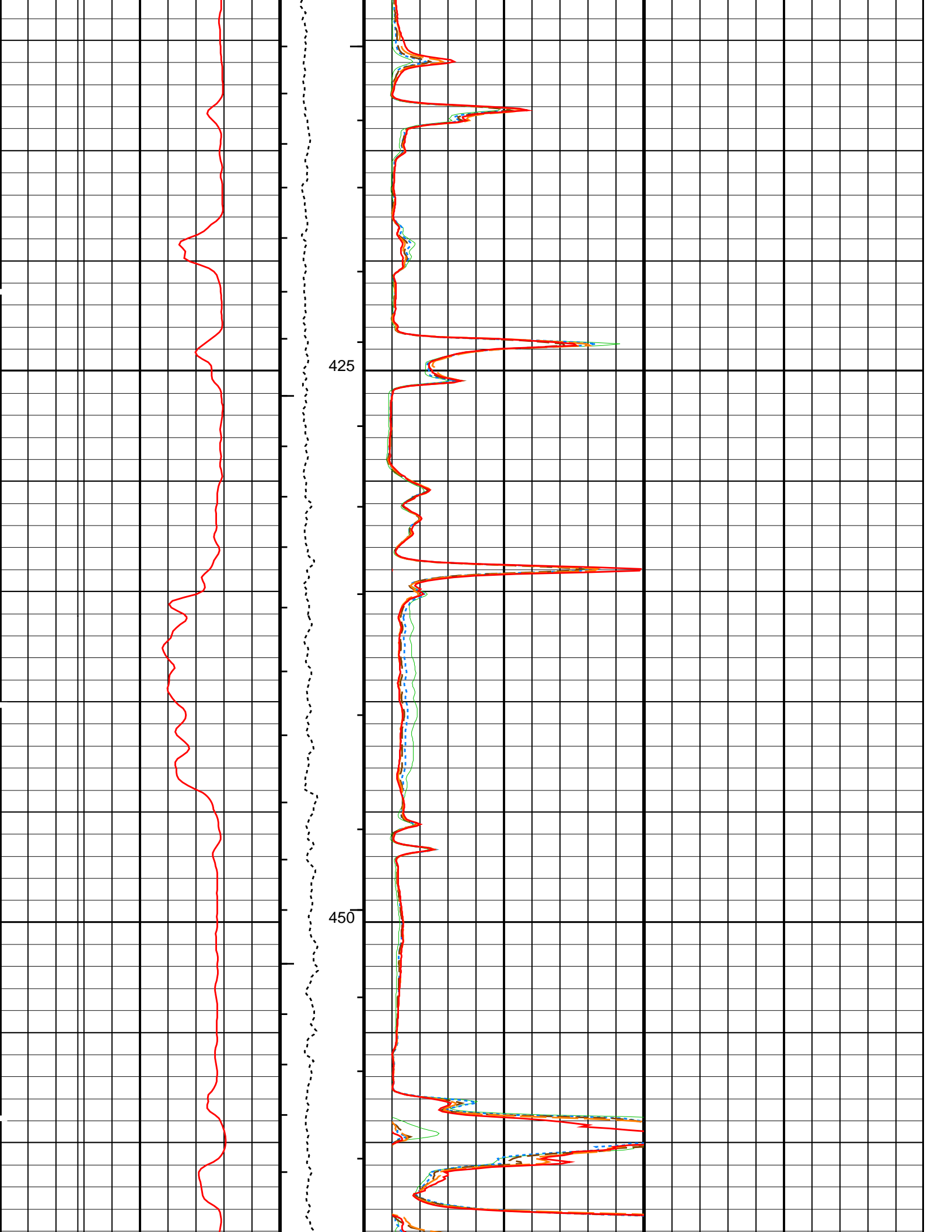


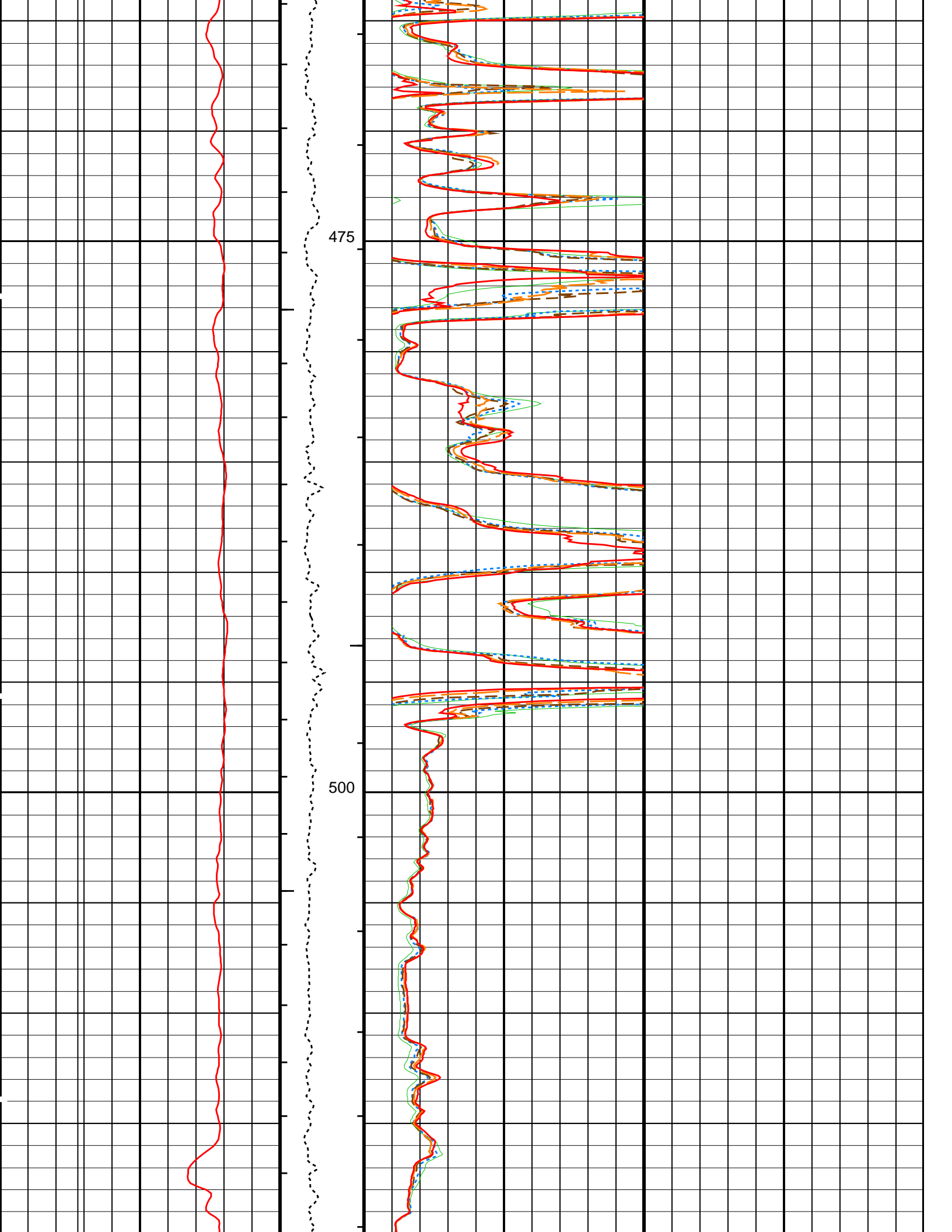


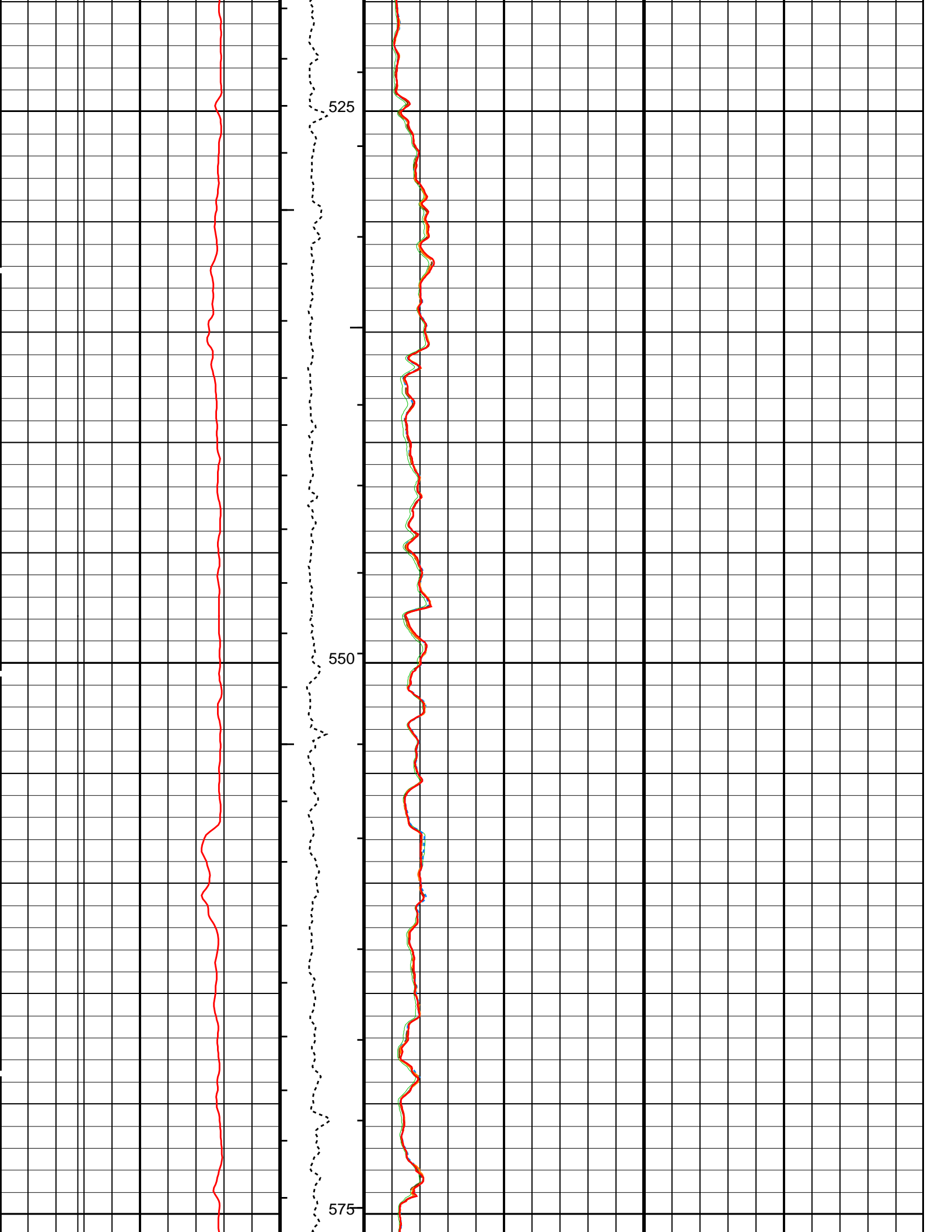


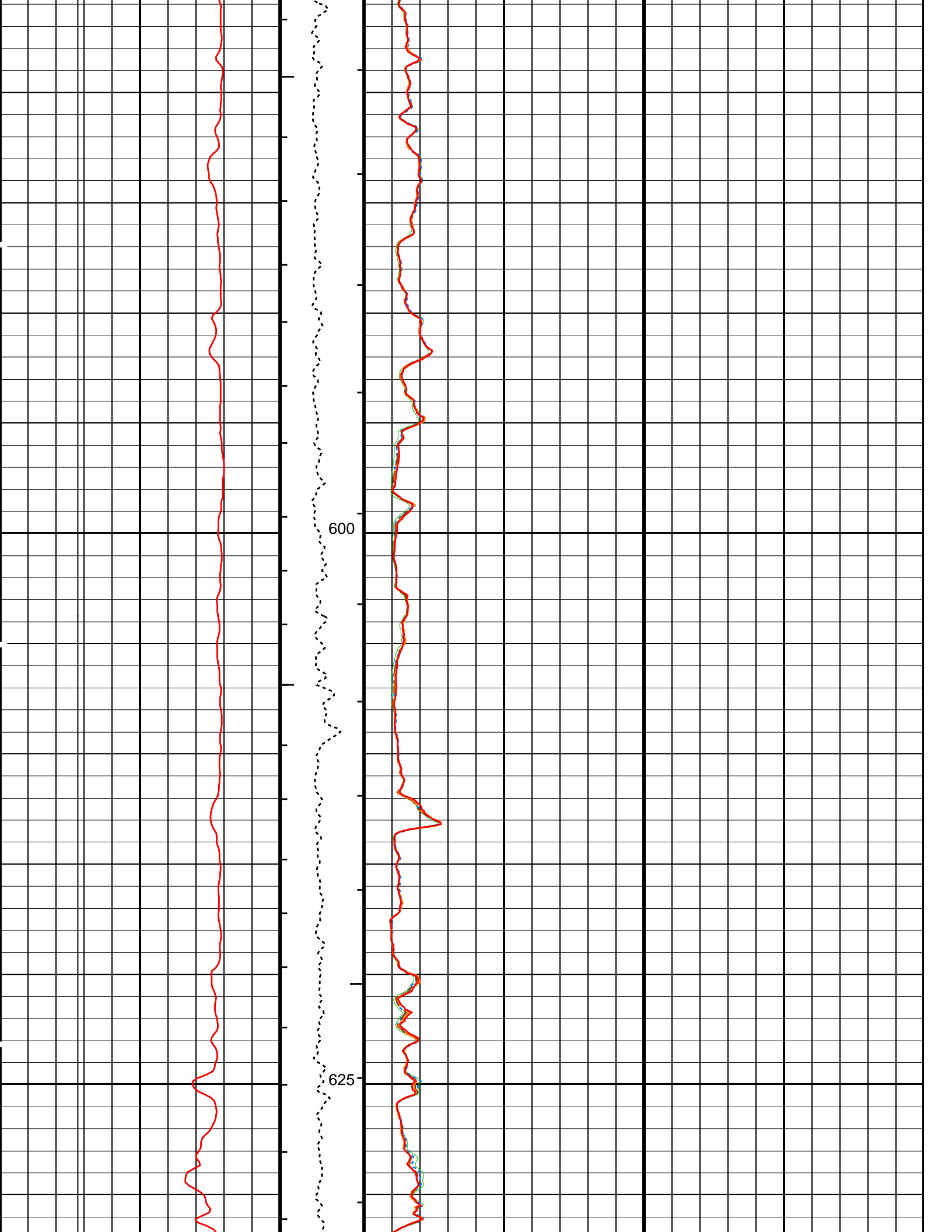


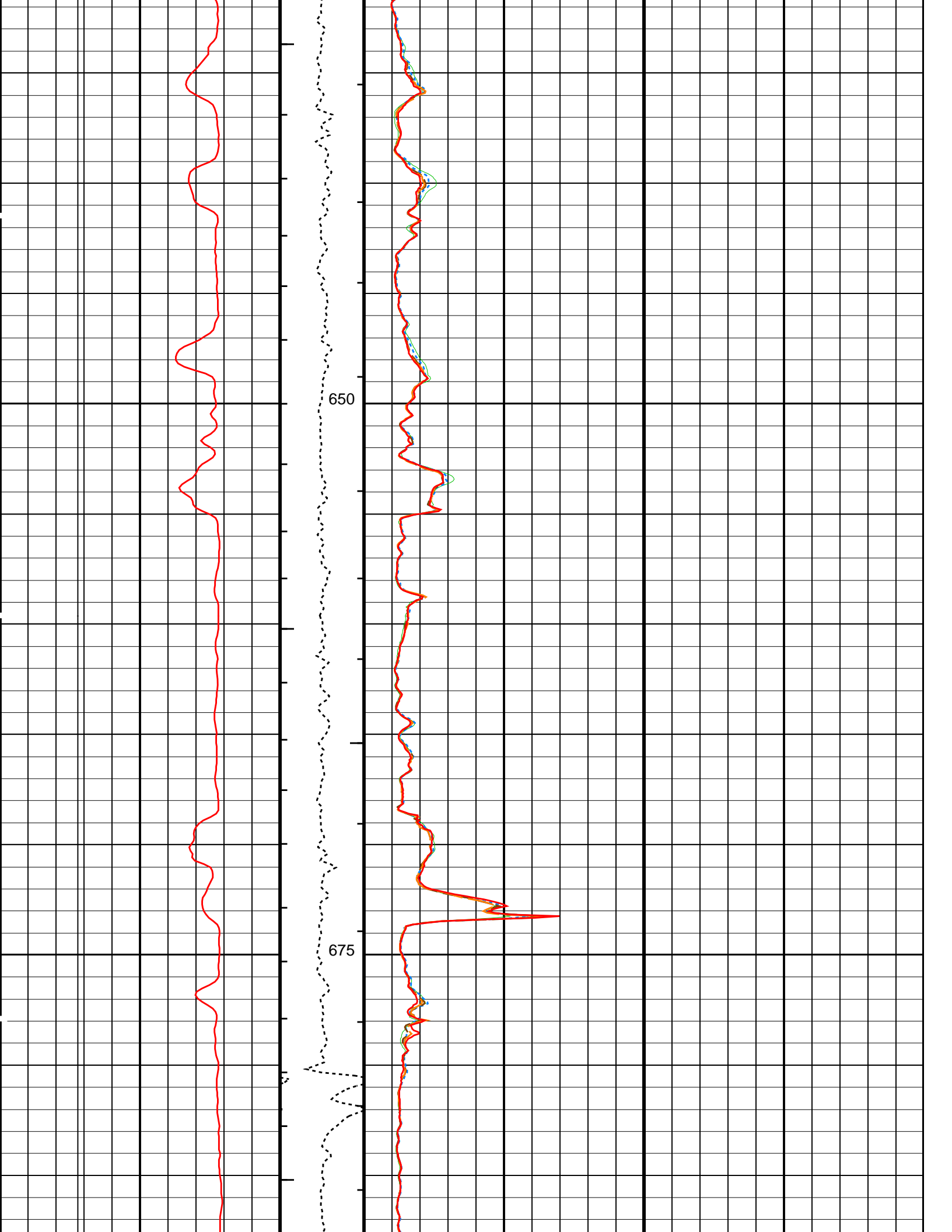


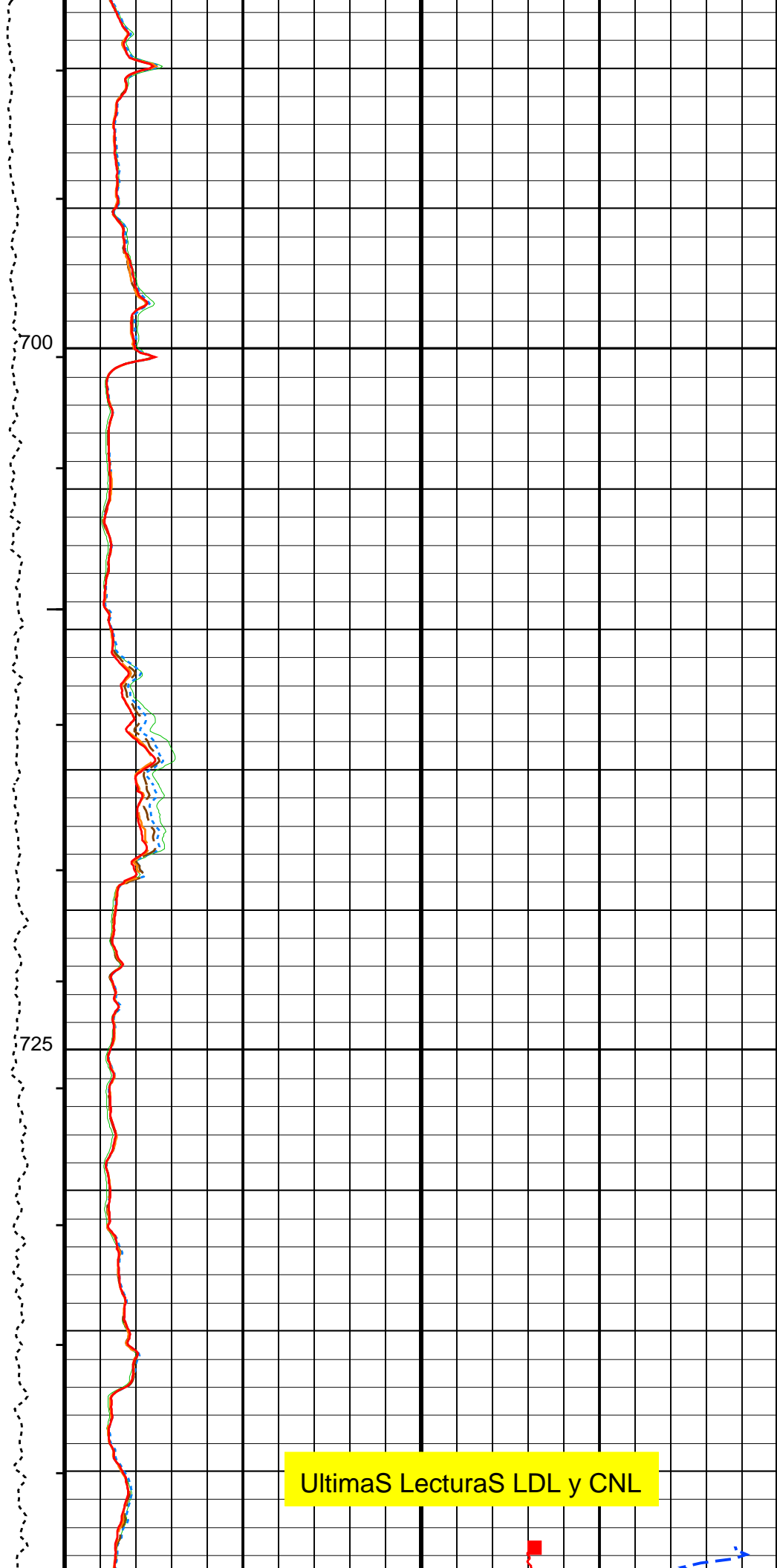
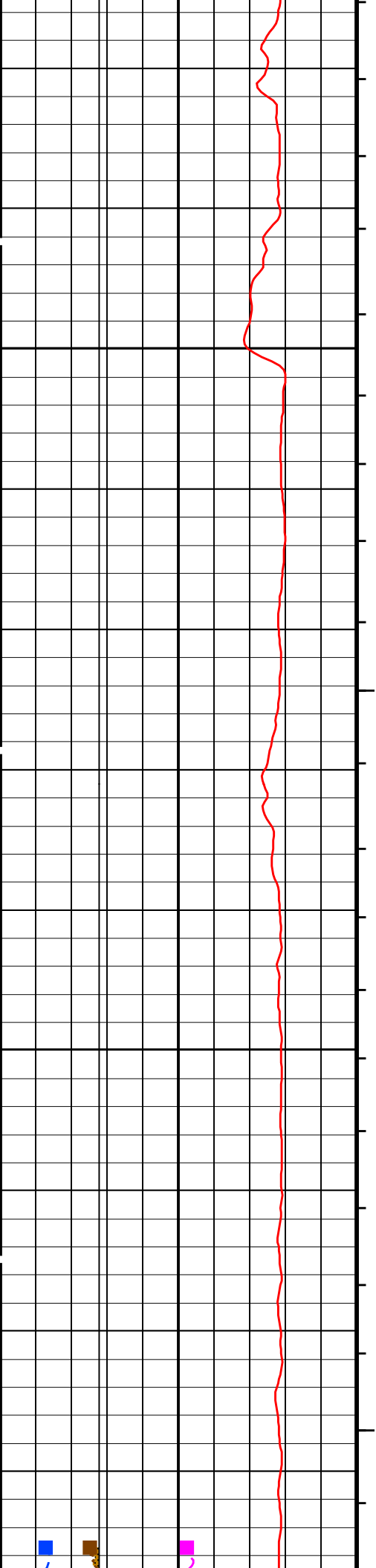










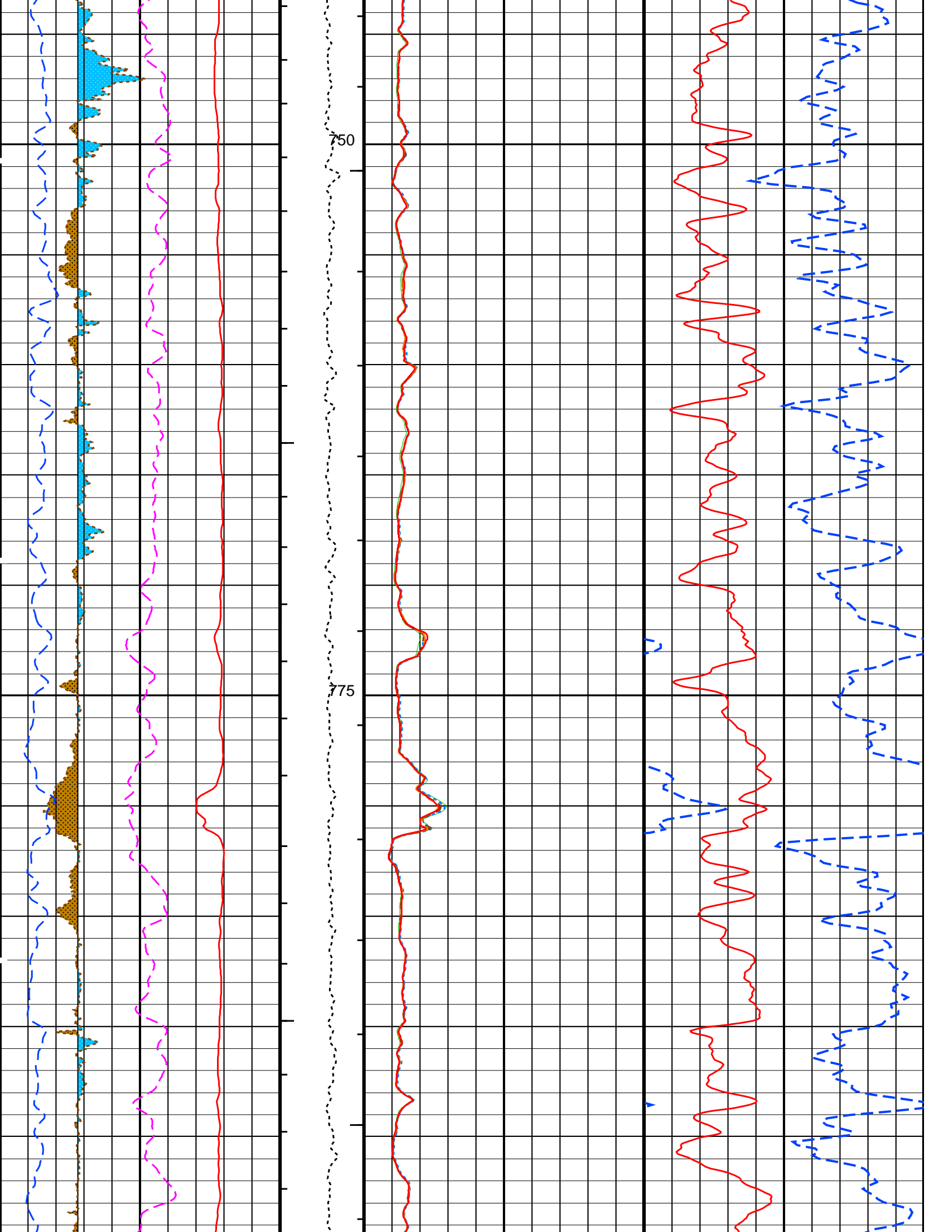


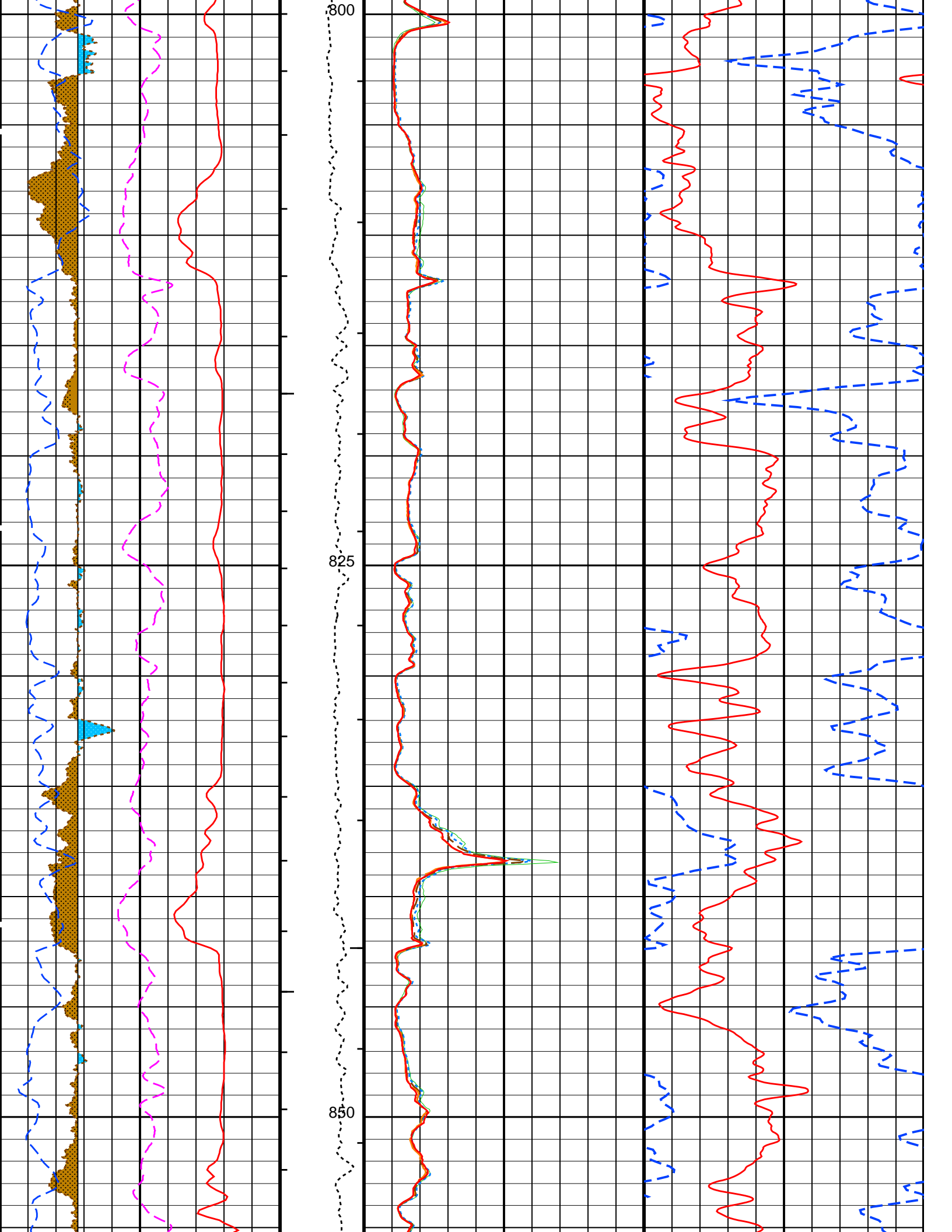
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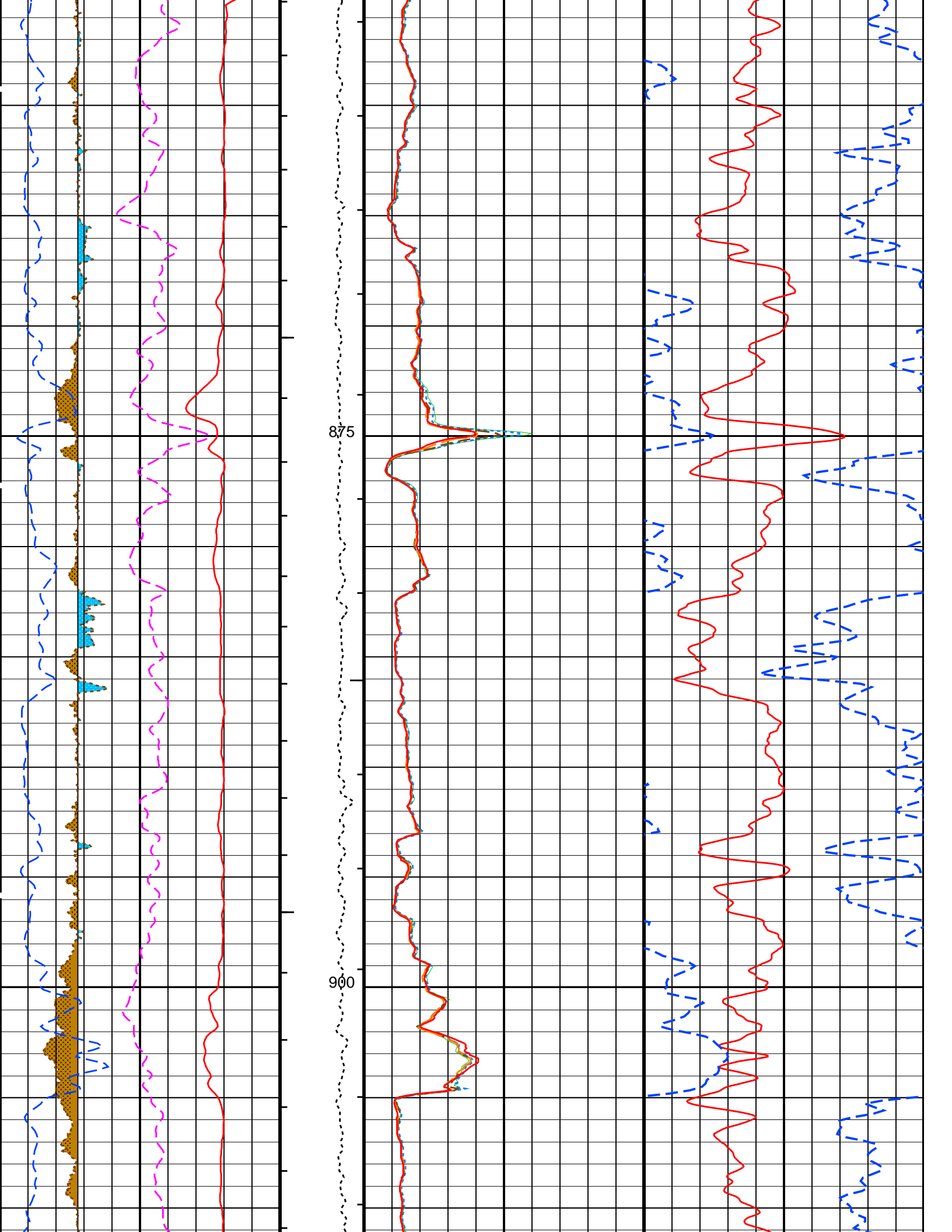
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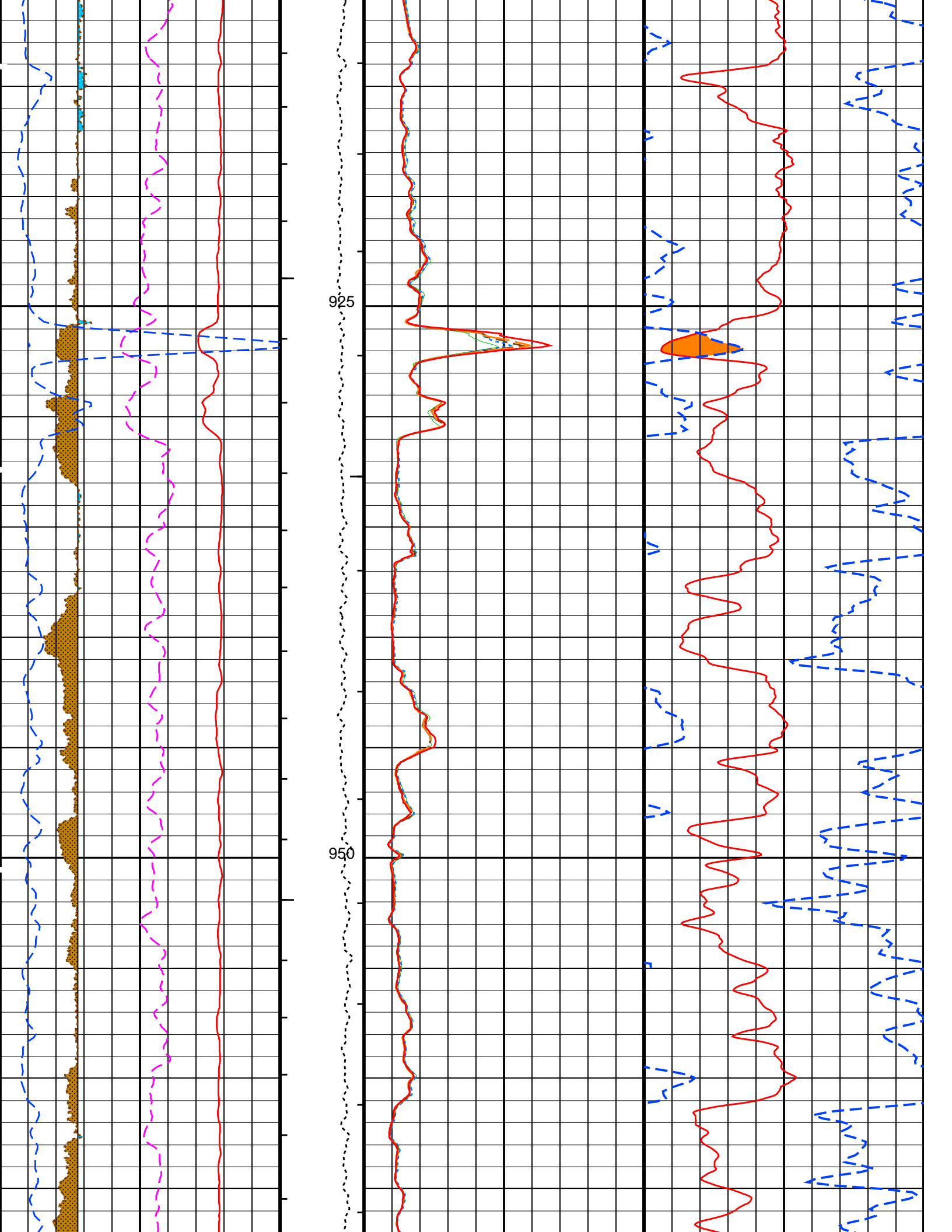
UltimaS LecturaS LDL y CNL

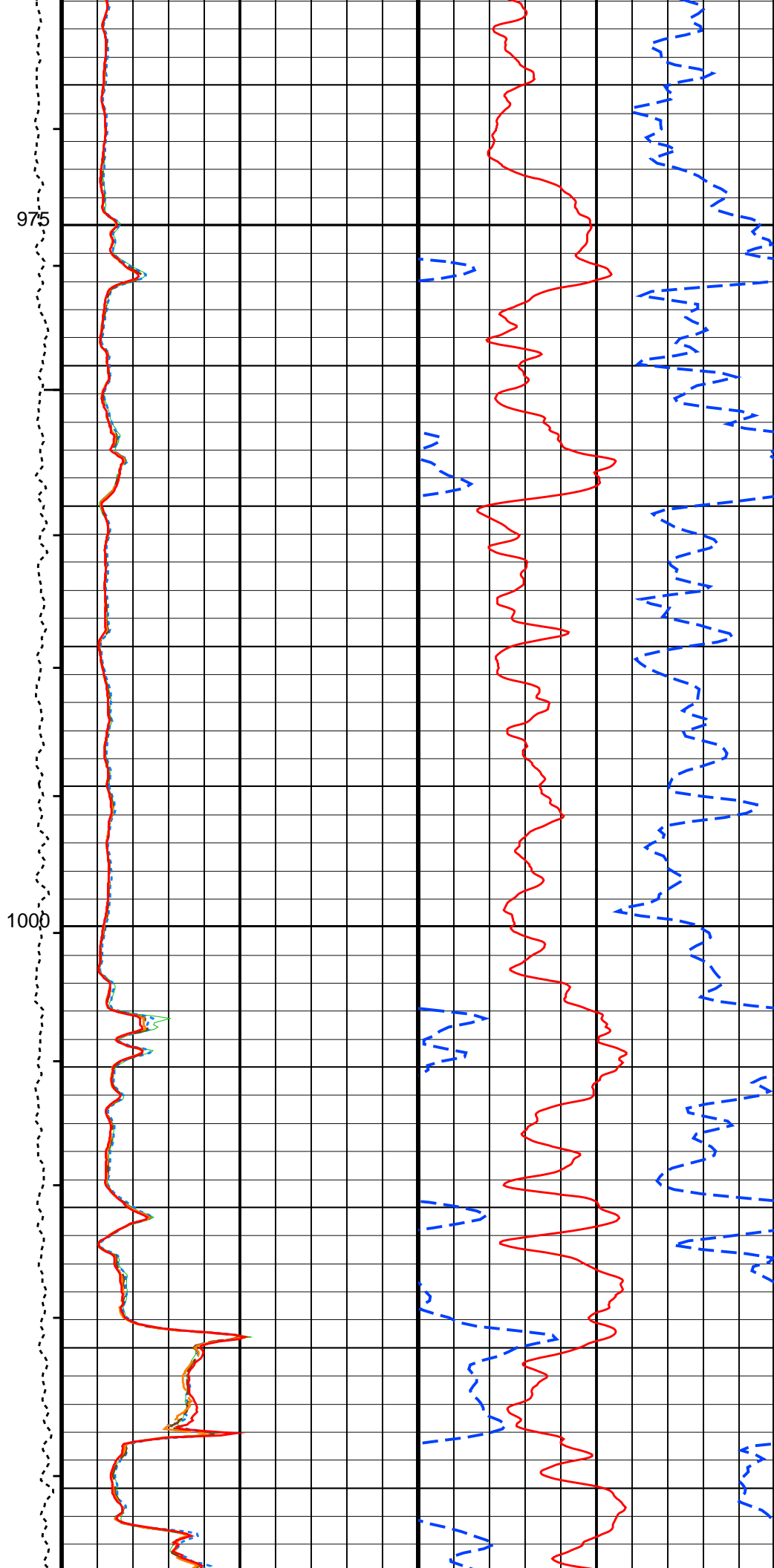
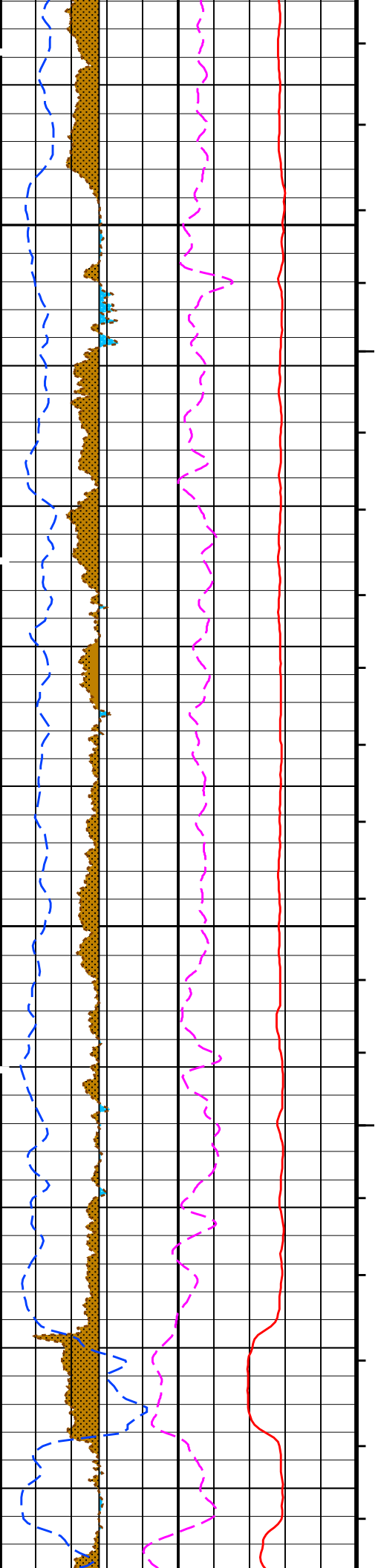


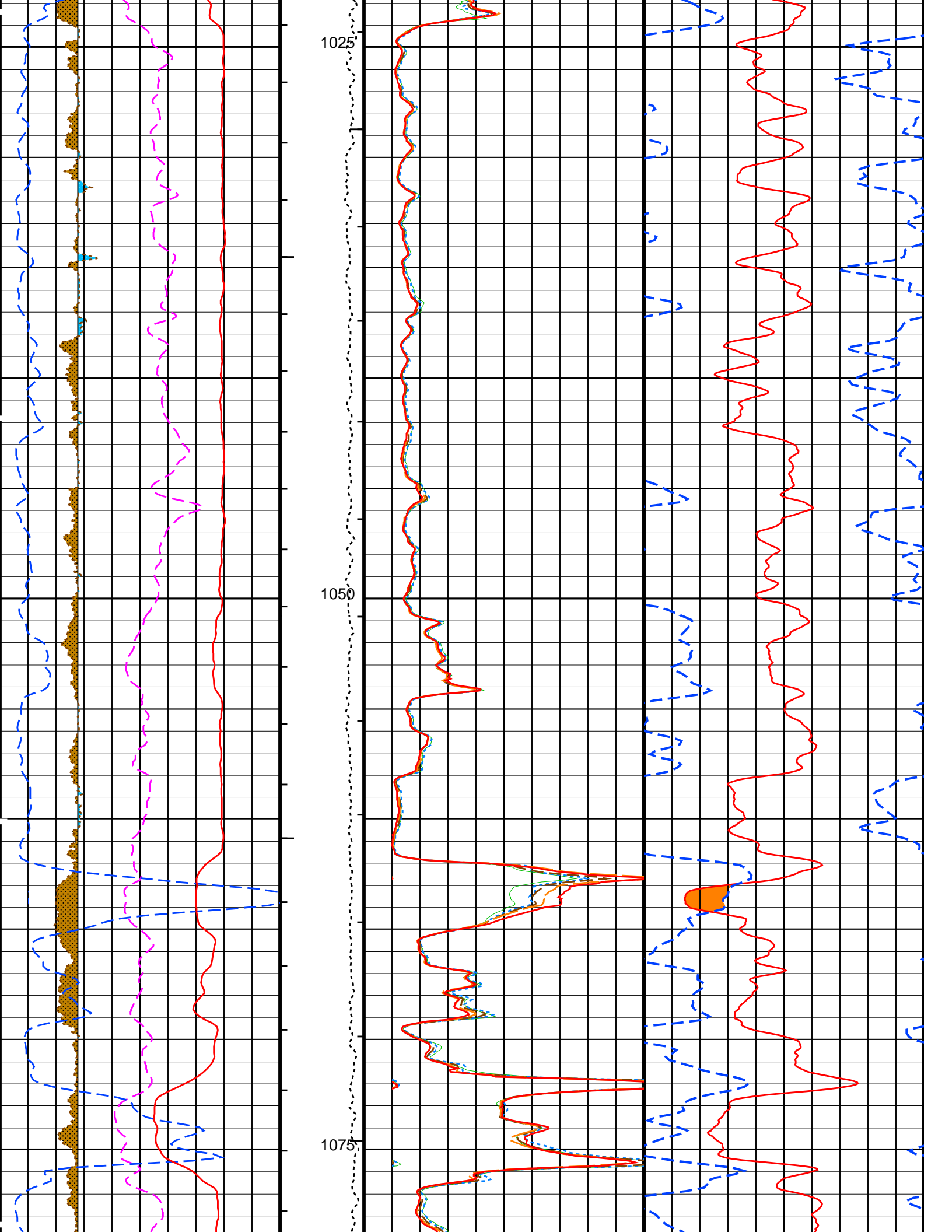


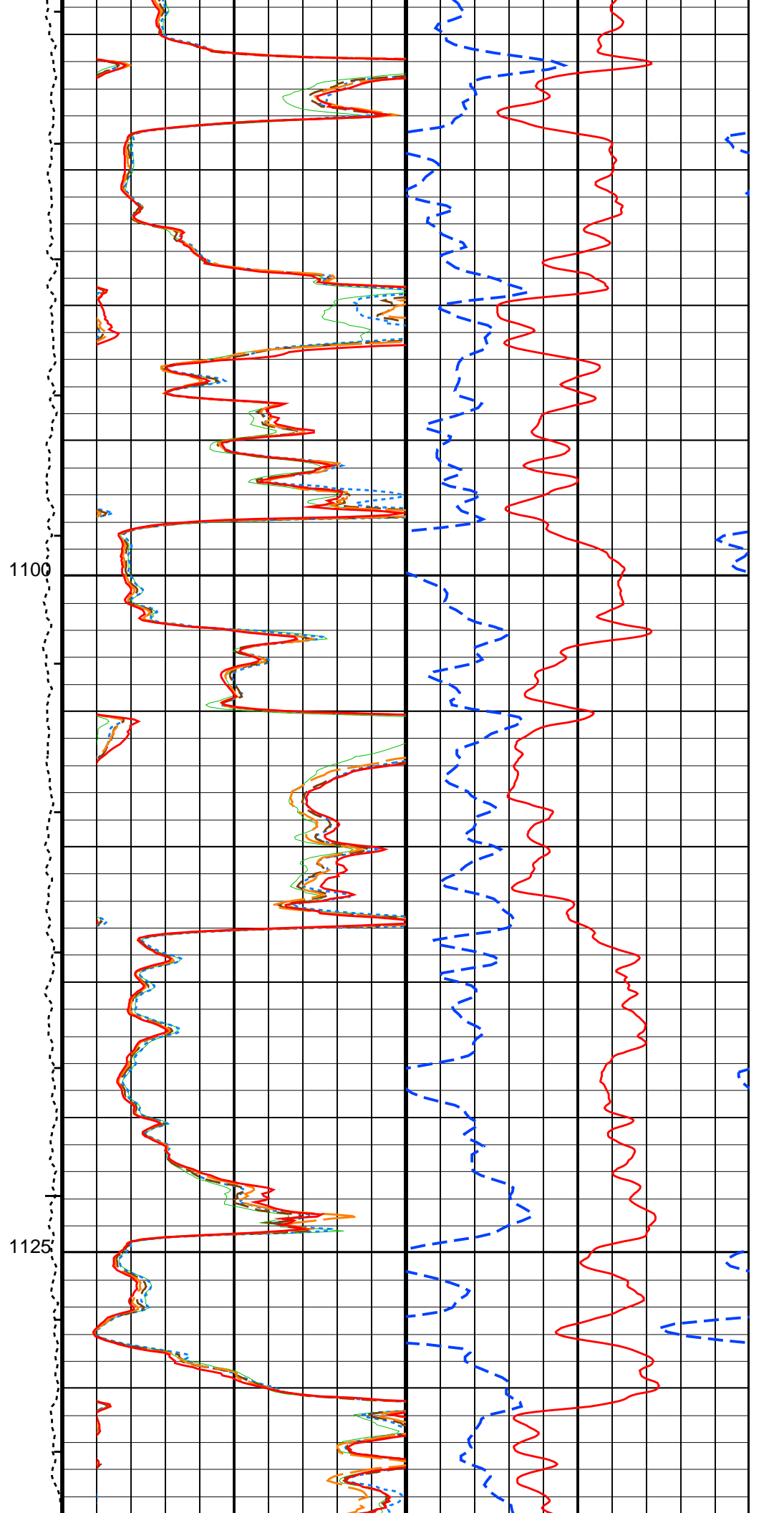
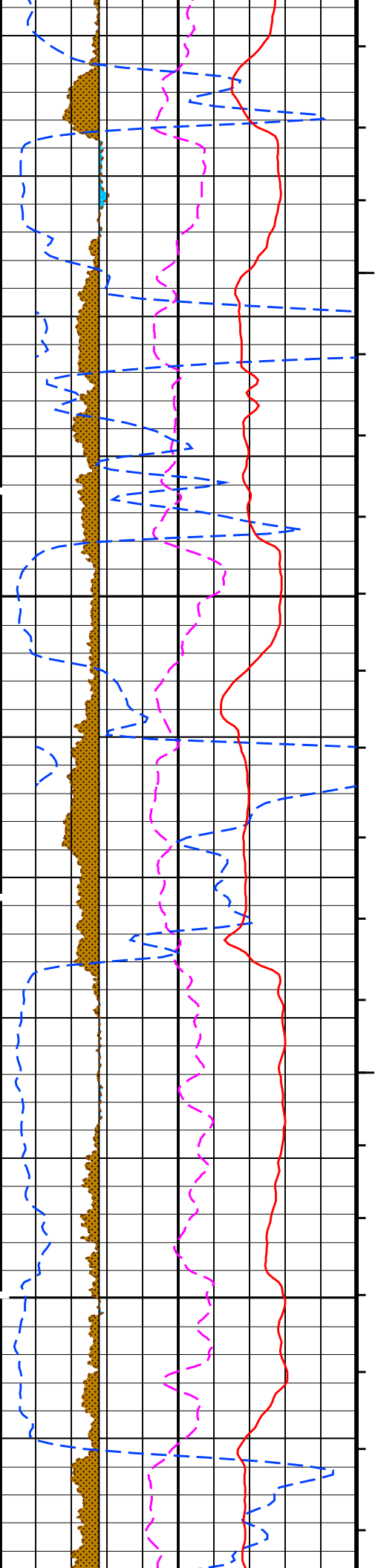


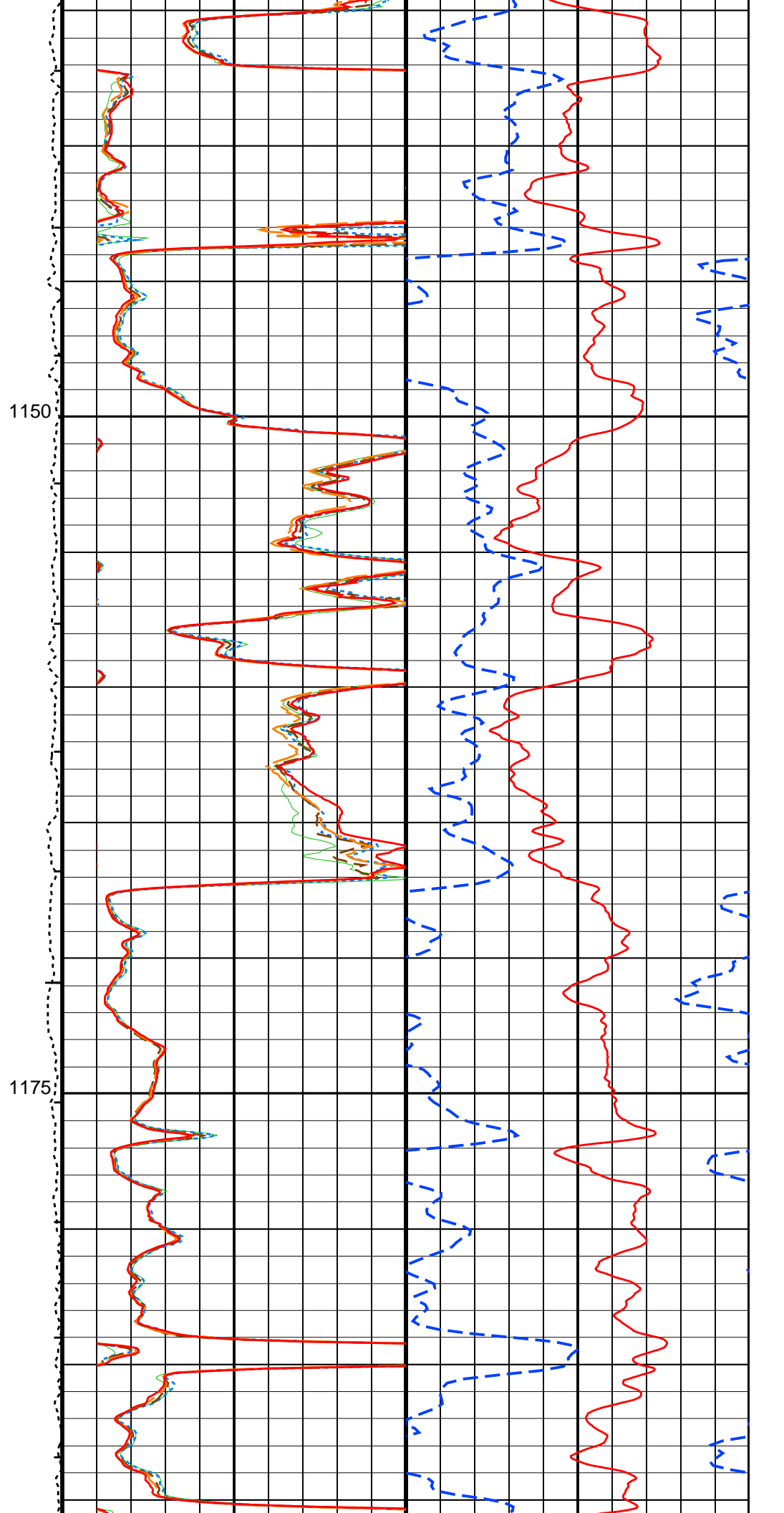
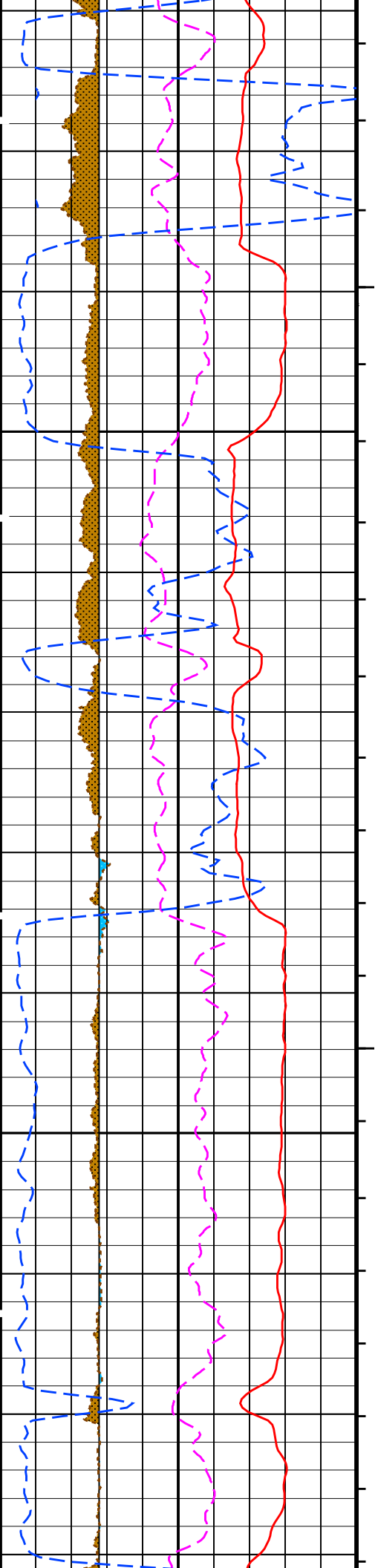


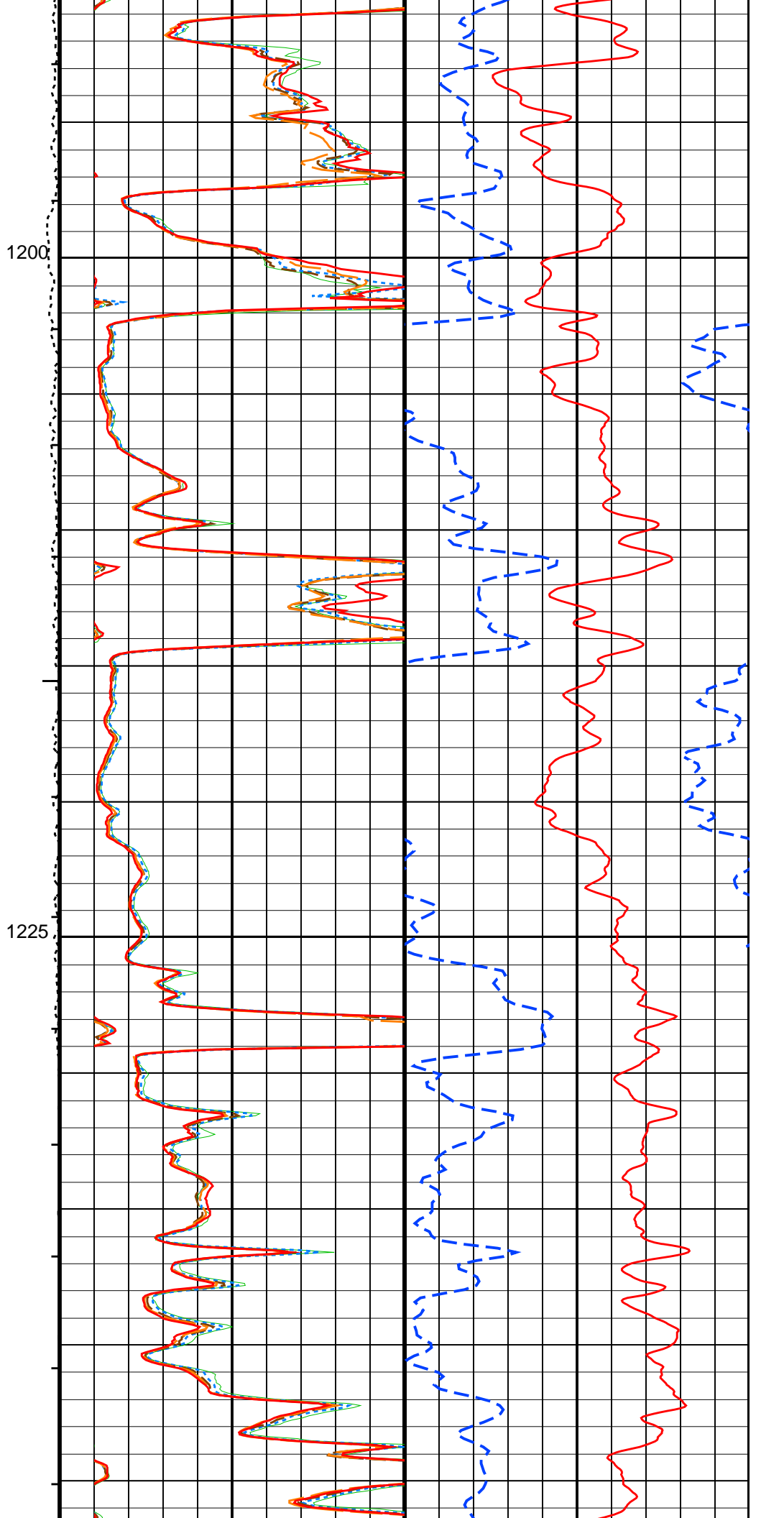
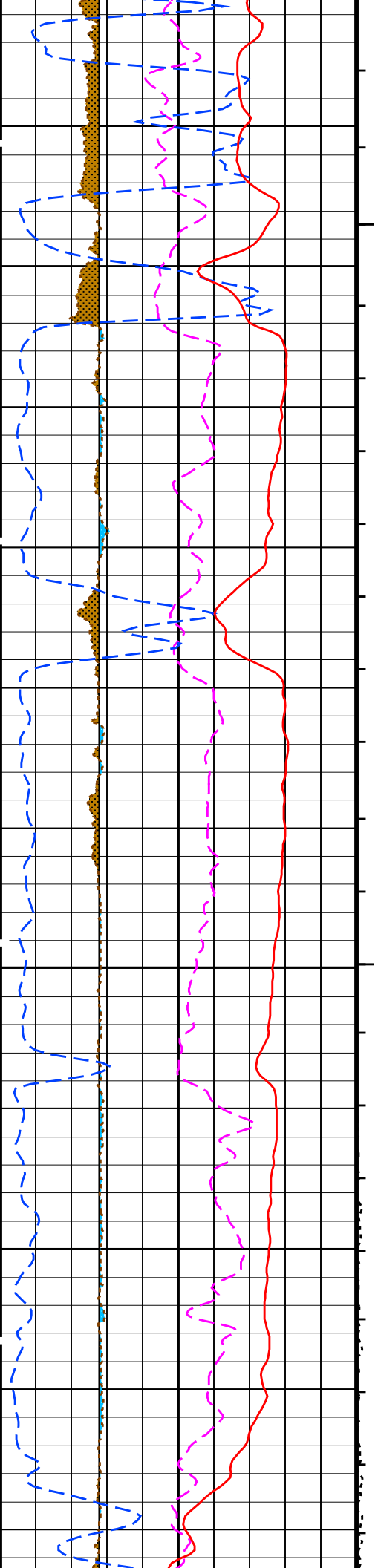


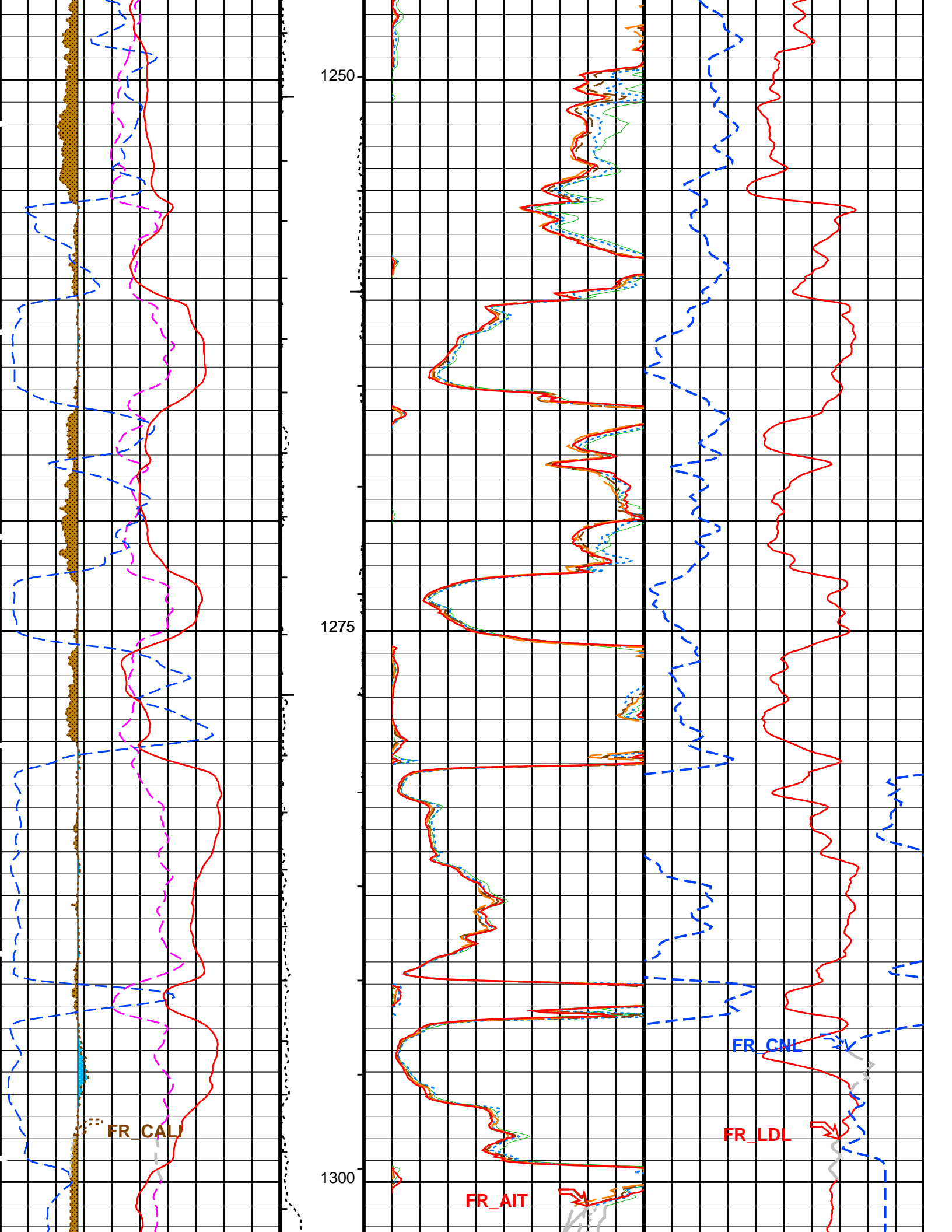


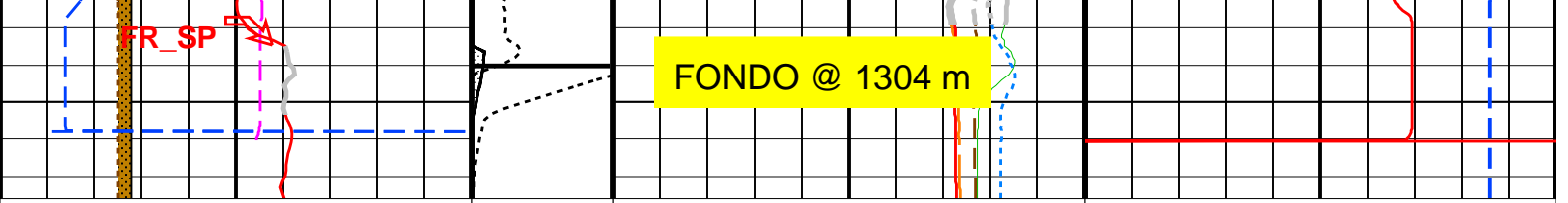












Bit Size (BS) (IN)	Tension (TENS) (LBF)	AIT-H 10 Inch Investigation (AHT10) (OHMM)	Std. Res. Density Porosity (DPHZ) (V/V)
6 16	0 1000	0 10	0.4 0
Caliper (HCAL) (IN)	Stuck Stretch (STIT) (M)	AIT-H 20 Inch Investigation (AHT20) (OHMM)	Env. Corr. Thermal Neutron Porosity (TNPH) (V/V)
6 16	0 20	0 10	0.4 0
Std. Res. Formation Pe (PEFZ) (---)		AIT-H 30 Inch Investigation (AHT30) (OHMM)	Gas From DPHZ to TNPH
0 5		0 10	
RWA (RWA) (OHMM)		0 1	
SP (SP) (MV)		AIT-H 60 Inch Investigation (AHT60) (OHMM)	
-80 20		0 10	
		AIT-H 90 Inch Investigation (AHT90) (OHMM)	
		0 10	
REVOQUE From HCAL to BS			
CAVERNA From BS to HCAL			

PIP SUMMARY

- ┆ Integrated Hole Volume Minor Pip Every 0.1 M3
- ┆ Integrated Hole Volume Major Pip Every 1 M3
 - ┆ Integrated Cement Volume Minor Pip Every 0.1 M3
 - ┆ Integrated Cement Volume Major Pip Every 1 M3

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HILTB-FTB: High resolution Integrated Logging Tool-DTS		
AHBHM	Array Induction Borehole Correction Mode	2_ComputeStandoff
AHBHV	Array Induction Borehole Correction Code Version Number	880
AHBLM	Array Induction Basic Logs Mode	6_One_Two_and_Four
AHBLV	Array Induction Basic Logs Code Version Number	108
AHCDE	Array Induction Casing Detection Enable	Yes
AHCEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered
AHFRSV	Array Induction Response Set Version for Four ft Resolution	40.70.24.21
AHMRF	Array Induction Mud Resistivity Factor	1
AHORSV	Array Induction Response Set Version for One ft Resolution	40.70.24.21
AHRFV	Array Induction Radial Profiling Code Version Number	700
AHRPV	Array Induction Radial Parametrization Code Version Number	223
AHSTA	Array Induction Tool Standoff	1.5 IN
AHTRSV	Array Induction Response Set Version for Two ft Resolution	40.70.24.21
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90
BHFL	Borehole Fluid Type	WATER
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	56 DEGC
BSCO	Borehole Salinity Correction Option	YES
CCCO	Casing & Cement Thickness Correction Option	NO
DFB	HILT Nuclear Mud Base	Water
DHC	Density Hole Correction	BS
FD	Fluid Density	1 G/C3
FEXP	Form Factor Exponent	2
FNUM	Form Factor Numerator	0.81
FPHI	Form Factor Porosity Source	DPHZ
FSAL	Formation Salinity	-50000 PPM
FSCO	Formation Salinity Correction Option	NO
GCSE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GRRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST
GTSE	Generalized Temperature Selection	HSTS_HTEM

HSCO	Hole Size Correction Option		YES	
MATR	Rock Matrix for Neutron Porosity Corrections		SANDSTONE	
MCCO	Mud Cake Correction Option		YES	
MCOR	Mud Correction		NATU	
MDEN	Matrix Density	2.65		G/C3
MWCO	Mud Weight Correction Option		YES	
NAAC	HRDD APS Activation Correction		OFF	
NMT	HILT Nuclear Mud Type		NOBARITE	
NPRM	HRDD Processing Mode		StdRes	
NSAR	HRDD Depth Sampling Rate	1		IN
PTCO	Pressure/Temperature Correction Option		YES	
RTCO	RTCO - Rt Invasion Correction		YES	
SDAT	Standoff Data Source		SOCN	
SHT	Surface Hole Temperature	20		DEGC
SOCN	Standoff Distance	0.125		IN
SOCO	Standoff Correction Option		YES	
SPDR	SP Drift	0		MV/M
SPNV	SP Next Value	-20		MV
RWA: Apparent Water Resistivity				
ARTS	AIT Rt Selection (for ALLRES computation)		AITH_TwoResA90	
FEXP	Form Factor Exponent	2		
FNUM	Form Factor Numerator	0.81		
FPHI	Form Factor Porosity Source		DPHZ	
RTCO	RTCO - Rt Invasion Correction		YES	
ALLRES: Basic Resistivity Transforms				
ARTS	AIT Rt Selection (for ALLRES computation)		AITH_TwoResA90	
RTCO	RTCO - Rt Invasion Correction		YES	
HOLEV: Integrated Hole/Cement Volume				
BHS	Borehole Status		OPEN	
BHT	Bottom Hole Temperature (used in calculations)	56		DEGC
FCD	Future Casing (Outer) Diameter	5.5		IN
GCSE	Generalized Caliper Selection		HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0		DEG
GGRD	Geothermal Gradient	0.018227		DC/M
GRSE	Generalized Mud Resistivity Selection		AITH_RESIST	
GTSE	Generalized Temperature Selection		HSTS_HTEM	
HVCS	Integrated Hole Volume Caliper Selection		HCAL	
MATR	Rock Matrix for Neutron Porosity Corrections		SANDSTONE	
SHT	Surface Hole Temperature	20		DEGC
STI: Stuck Tool Indicator				
LBFR	Trigger for MAXIS First Reading Label		STI	
STKT	STI Stuck Threshold	0.762		M
TDD	Total Depth - Driller	1300.00		M
TDL	Total Depth - Logger	1304.00		M
System and Miscellaneous				
BS	Bit Size	8.750		IN
BSAL	Borehole Salinity	600.00		PPM
CSIZ	Current Casing Size	9.625		IN
CWEI	Casing Weight	32.30		LB/F
DFD	Drilling Fluid Density	1.18		G/C3
DO	Depth Offset for Playback	0.0		M
MST	Mud Sample Temperature	13.00		DEGC
PP	Playback Processing		NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	1.0500		OHMM
RW	Resistivity of Connate Water	1.0000		OHMM
TD	Total Depth	1304		M
TWS	Temperature of Connate Water Sample	37.78		DEGC

Format: COMBINADA Vertical Scale: 1:200 Graphics File Created: 15-May-2006 10:40

OP System Version: 13C0-300
MCM

HILTB-FTB SRPC-2718-HILT DTC-H 13C0-300

Input DLIS Files

DEFAULT Main_014LUP FN:16 PRODUCER 14-May-2006 19:04 1307.6 M 65.4 M

Output DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_056PUP FN:2 PRODUCER 15-May-2006 10:40
CLIENT AIT_TLD_MCFL_CNL_056PUC FN:3 CUSTOMER 15-May-2006 10:40



TRAMO REPETIDO

Input DLIS Files

DEFAULT Repeat_013LUP FN:14 PRODUCER 14-May-2006 19:05 1309.4 M 1028.7 M

Output DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_061PUP FN:12 PRODUCER 15-May-2006 11:19 1245.0 M 1170.9 M
 CLIENT AIT_TLD_MCFL_CNL_061PUC FN:13 CUSTOMER 15-May-2006 11:19 1245.0 M 1170.9 M

Integrated Hole/Cement Volume Summary

Hole Volume = 2.84 M3
 Cement Volume = 1.70 M3 (assuming 5.50 IN casing O.D.)
 Computed from 1245.0 M to 1171.0 M using data channel(s) HCAL

OP System Version: 13C0-300

MCM

HILTB-FTB SRPC-2718-HILT DTC-H 13C0-300

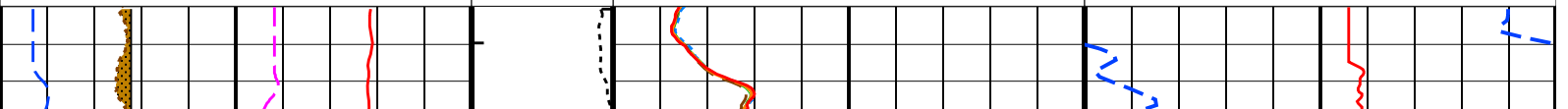
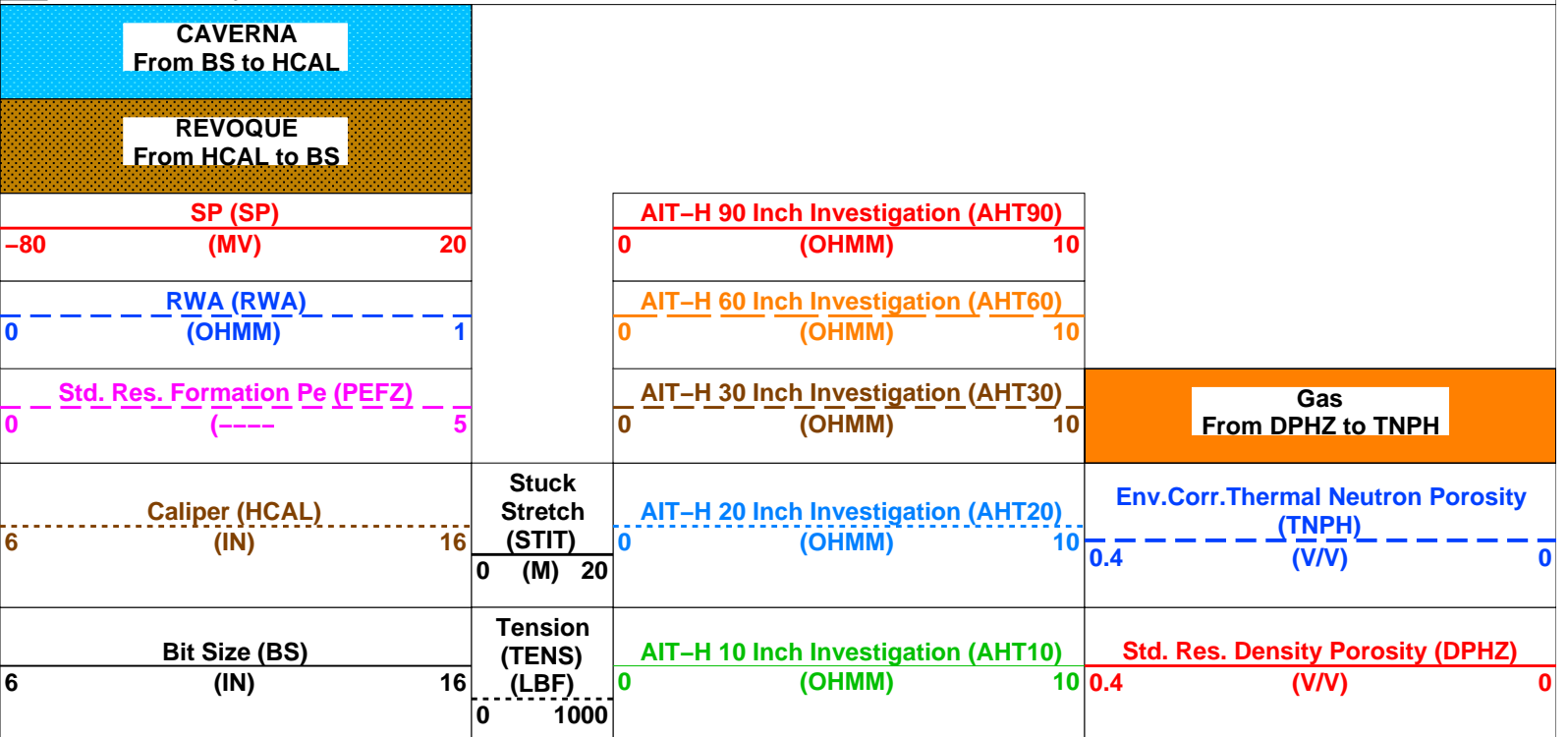
Changed Parameter Summary

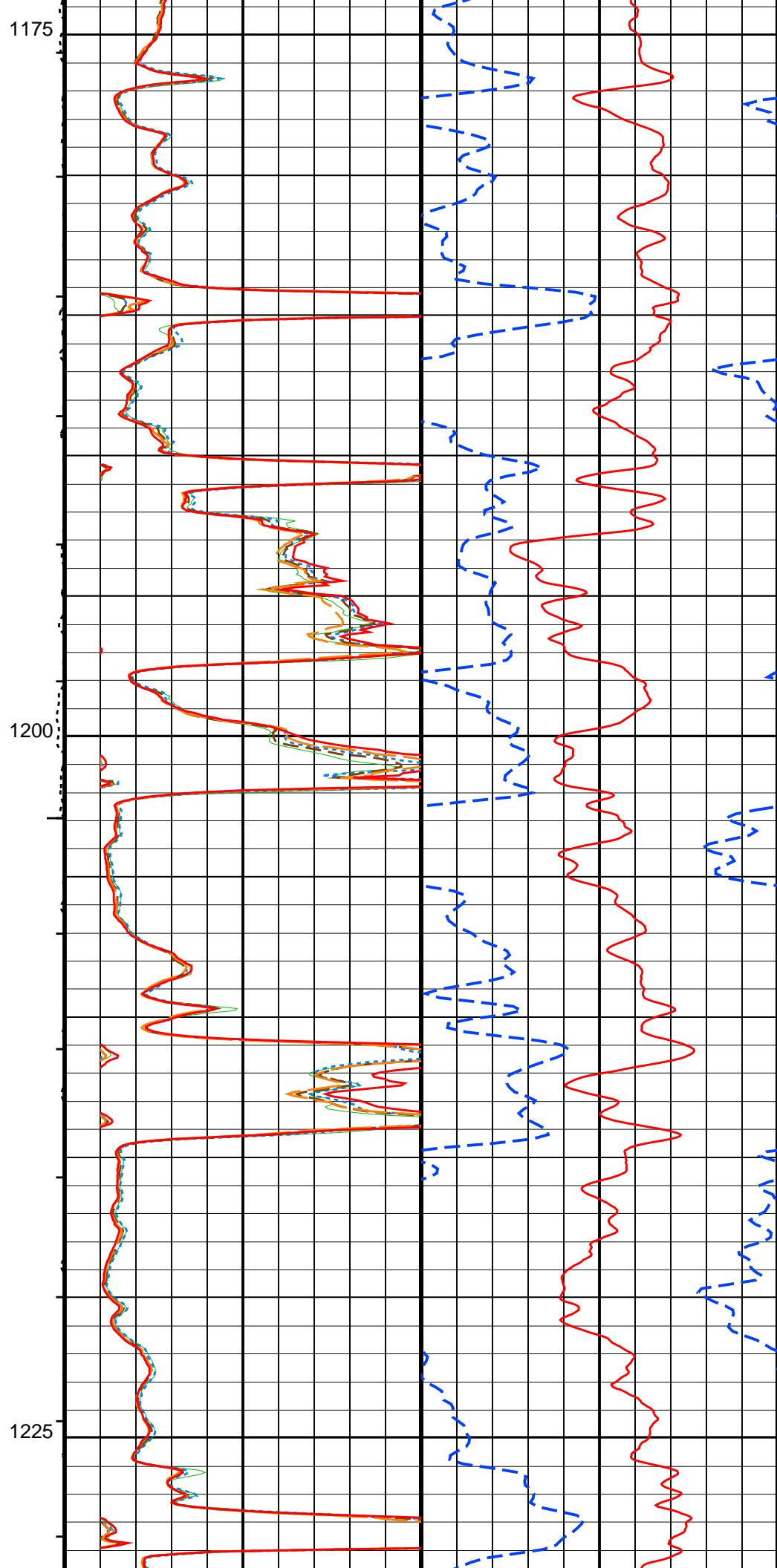
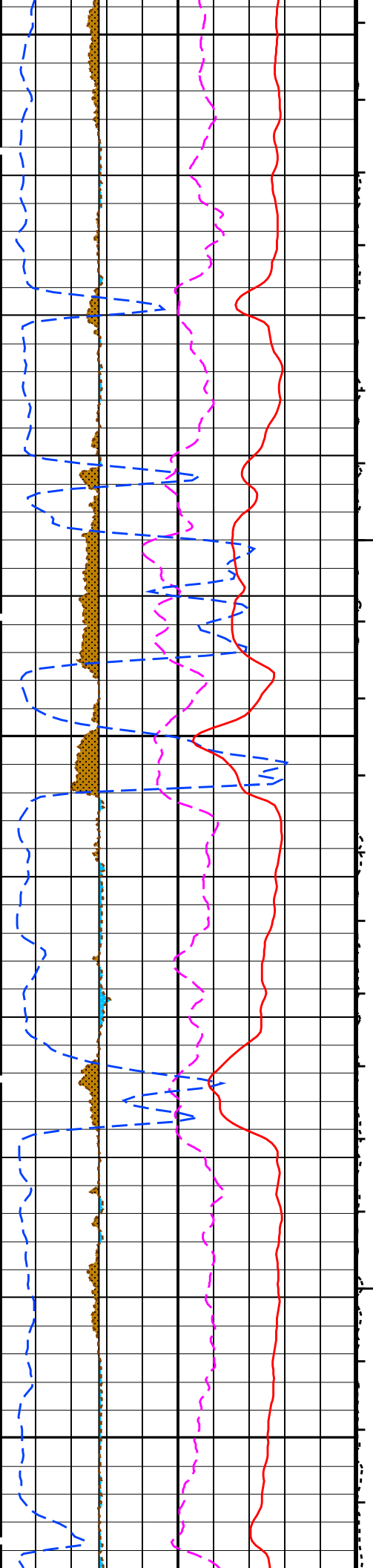
DLIS Name	New Value	Previous Value	Depth & Time
SPDR	0 MV/M	0 MV/M	1245.0 11:19:11

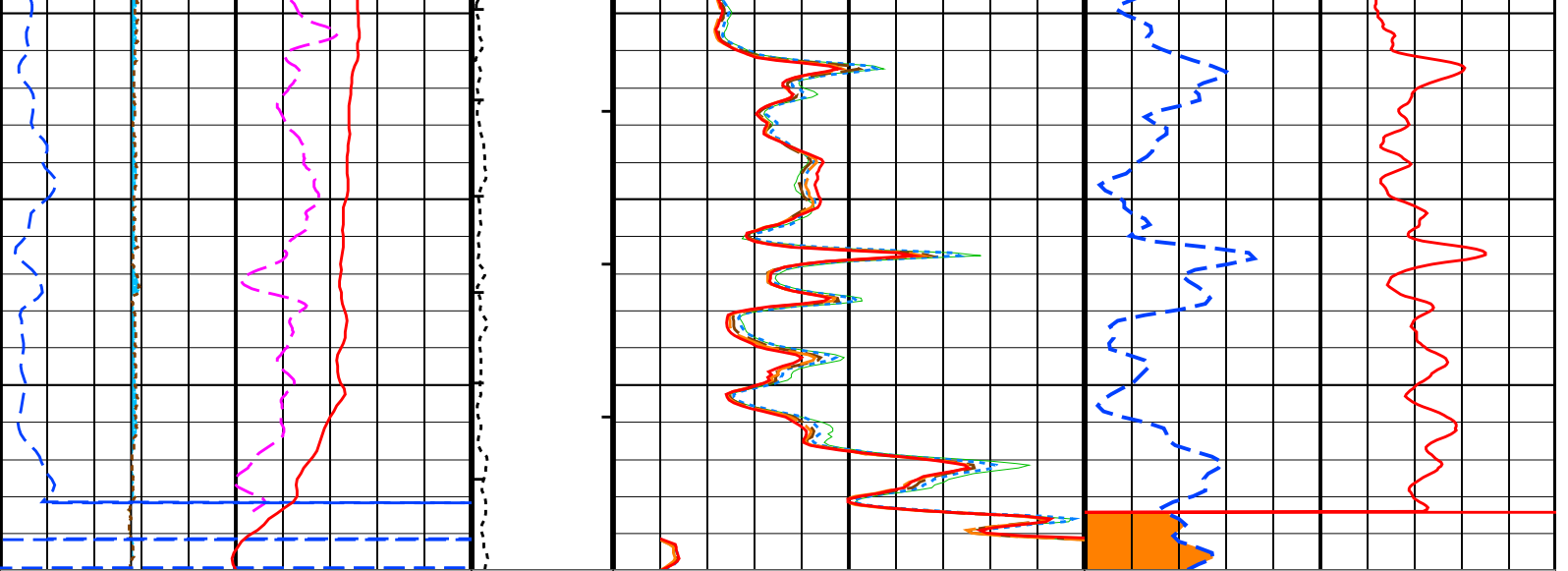
PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
- └ Integrated Cement Volume Minor Pip Every 0.1 M3
- └ Integrated Cement Volume Major Pip Every 1 M3

Time Mark Every 60 S







Bit Size (BS) (IN)	Tension (TENS) (LBF)	AIT-H 10 Inch Investigation (AHT10) (OHMM)	Std. Res. Density Porosity (DPHZ) (V/V)
6 16	0 1000	0 10	0.4 0
Caliper (HCAL) (IN)	Stuck Stretch (STIT) (M)	AIT-H 20 Inch Investigation (AHT20) (OHMM)	Env. Corr. Thermal Neutron Porosity (TNPH) (V/V)
6 16	0 20	0 10	0.4 0
Std. Res. Formation Pe (PEFZ) (----)	AIT-H 30 Inch Investigation (AHT30) (OHMM)	Gas From DPHZ to TNPH	
0 5	0 10		
RWA (RWA) (OHMM)	AIT-H 60 Inch Investigation (AHT60) (OHMM)		
0 1	0 10	AIT-H 90 Inch Investigation (AHT90) (OHMM)	
SP (SP) (MV)			
-80 20			
REVOQUE From HCAL to BS			
CAVERNA From BS to HCAL			

PIP SUMMARY

- ┆ Integrated Hole Volume Minor Pip Every 0.1 M3
- ┆ Integrated Hole Volume Major Pip Every 1 M3
 - ┆ Integrated Cement Volume Minor Pip Every 0.1 M3
 - ┆ Integrated Cement Volume Major Pip Every 1 M3

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HILTB-FTB: High resolution Integrated Logging Tool-DTS		
AHBHM	Array Induction Borehole Correction Mode	2 ComputeStandoff
AHBHV	Array Induction Borehole Correction Code Version Number	880
AHBLM	Array Induction Basic Logs Mode	6_One_Two_and_Four
AHBLV	Array Induction Basic Logs Code Version Number	108
AHCDE	Array Induction Casing Detection Enable	Yes
AHCEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered
AHFRSV	Array Induction Response Set Version for Four ft Resolution	40.70.24.21
AHMRF	Array Induction Mud Resistivity Factor	1
AHORSV	Array Induction Response Set Version for One ft Resolution	40.70.24.21
AHRFV	Array Induction Radial Profiling Code Version Number	700
AHRPV	Array Induction Radial Parametrization Code Version Number	223
AHSTA	Array Induction Tool Standoff	1.5 IN
AHTRSV	Array Induction Response Set Version for Two ft Resolution	40.70.24.21
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90
BHFL	Borehole Fluid Type	WATER
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	56 DEGC

BSCO	Borehole Salinity Correction Option	YES	
CCCC	Casing & Cement Thickness Correction Option	NO	
DFB	HILT Nuclear Mud Base	Water	
DHC	Density Hole Correction	BS	
FD	Fluid Density	1	G/C3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	0.81	
FPHI	Form Factor Porosity Source	DPHZ	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	YES	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.65	G/C3
MWCO	Mud Weight Correction Option	YES	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	StdRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PTCO	Pressure/Temperature Correction Option	YES	
RTCO	RTCO - Rt Invasion Correction	YES	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
SPDR	SP Drift	0	MV/M
SPNV	SP Next Value	-30	MV
RWA: Apparent Water Resistivity			
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	0.81	
FPHI	Form Factor Porosity Source	DPHZ	
RTCO	RTCO - Rt Invasion Correction	YES	
ALLRES: Basic Resistivity Transforms			
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90	
RTCO	RTCO - Rt Invasion Correction	YES	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	56	DEGC
FCD	Future Casing (Outer) Diameter	5.5	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HVCS	Integrated Hole Volume Caliper Selection	HCAL	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	0.762	M
TDD	Total Depth - Driller	1300.00	M
TDL	Total Depth - Logger	1304.00	M
System and Miscellaneous			
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	600.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	32.30	LB/F
DFD	Drilling Fluid Density	1.18	G/C3
DO	Depth Offset for Playback	1.1	M
DORL	Depth Offset for Repeat Analysis	0.0	M
MST	Mud Sample Temperature	13.00	DEGC
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	1.0500	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1304	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: COMBINADA Vertical Scale: 1:200 Graphics File Created: 15-May-2006 11:19

OP System Version: 13C0-300
MCM

HILTB-FTB

SRPC-2718-HILT

DTC-H

13C0-300

Input DLIS Files

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_061PUP	FN:12	PRODUCER	15-May-2006 11:19
CLIENT	AIT_TLD_MCFL_CNL_061PUC	FN:13	CUSTOMER	15-May-2006 11:19



ANALISIS DE REPETIBILIDAD

MAXIS Field Log

Input DLIS Files

DEFAULT	Repeat_013LUP	FN:14	PRODUCER	14-May-2006 19:05	1309.4 M	1028.7 M
DEFAULT	AIT_TLD_MCFL_CNL_056PUP	FN:2	PRODUCER	15-May-2006 10:40	1307.6 M	105.0 M

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_061PUP	FN:12	PRODUCER	15-May-2006 11:19	1245.0 M	1170.9 M
CLIENT	AIT_TLD_MCFL_CNL_061PUC	FN:13	CUSTOMER	15-May-2006 11:19	1245.0 M	1170.9 M

Integrated Hole/Cement Volume Summary

Hole Volume = 2.84 M3
 Cement Volume = 1.70 M3 (assuming 5.50 IN casing O.D.)
 Computed from 1245.0 M to 1171.0 M using data channel(s) HCAL

OP System Version: 13C0-300

MCM

HILTB-FTB	SRPC-2718-HILT	DTC-H	13C0-300
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Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
SPDR	0 MV/M	0 MV/M	1245.0 11:19:11

PIP SUMMARY

- ┌ Integrated Hole Volume Minor Pip Every 0.1 M3
- ┌ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Cement Volume Minor Pip Every 0.1 M3
 - └ Integrated Cement Volume Major Pip Every 1 M3

Time Mark Every 60 S

CAVERNA
From BS to HCAL

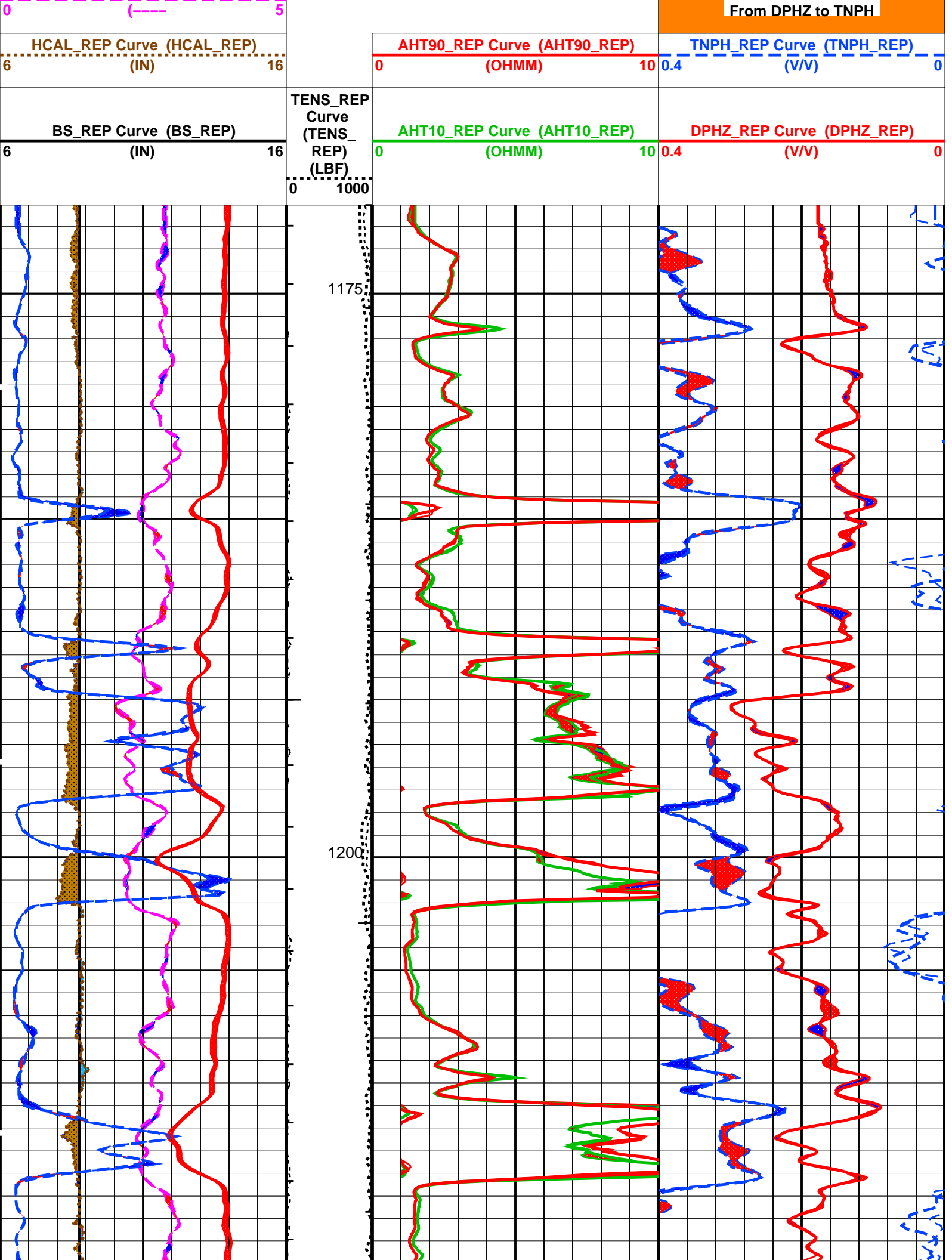
REVOQUE
From HCAL to BS

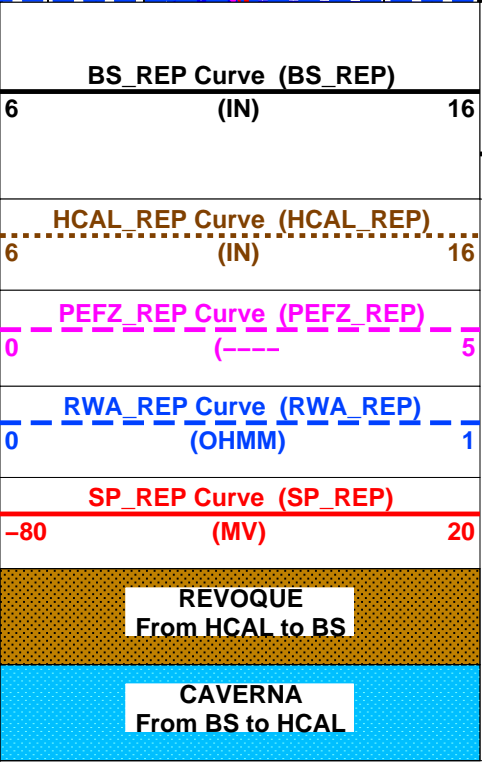
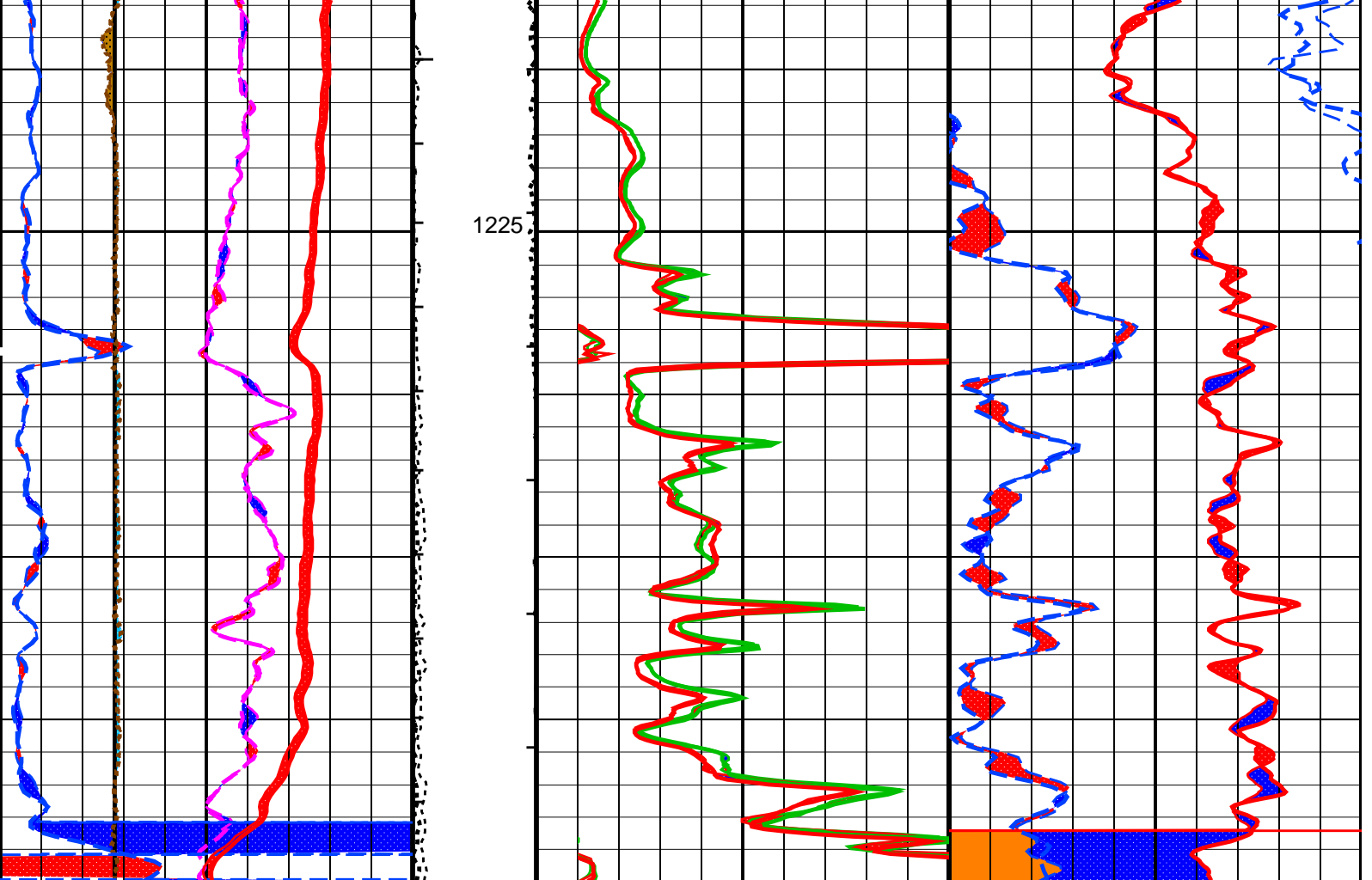
SP_REP Curve (SP_REP)
-80 (MV) 20

RWA_REP Curve (RWA_REP)
0 (OHMM) 1

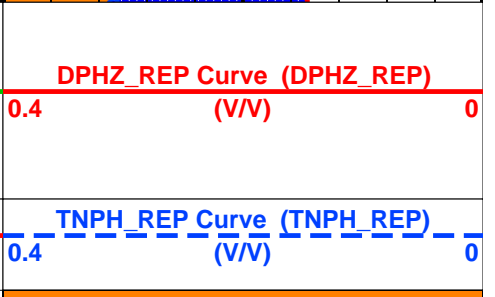
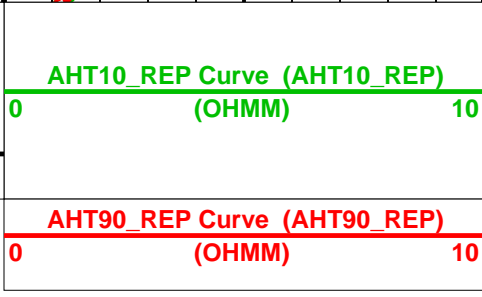
PEFZ_REP Curve (PEFZ_REP)

Gas





TENS_REP
Curve
(TENS_REP)
(LBF)



Gas
From DPHZ to TNPH

REVOQUE
From HCAL to BS

CAVERNA
From BS to HCAL

PIP SUMMARY

- ┌ Integrated Hole Volume Minor Pip Every 0.1 M3
- ┌ Integrated Hole Volume Major Pip Every 1 M3
- └ Integrated Cement Volume Minor Pip Every 0.1 M3
- └ Integrated Cement Volume Major Pip Every 1 M3

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
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HILTB-FTB: High resolution Integrated Logging Tool-DTS

AHBHM	Array Induction Borehole Correction Mode	2_ComputeStandoff	
AHBHV	Array Induction Borehole Correction Code Version Number	880	
AHBLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
AHBLV	Array Induction Basic Logs Code Version Number	108	
AHCDE	Array Induction Casing Detection Enable	Yes	
AHCEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
AHFRSV	Array Induction Response Set Version for Four ft Resolution	40.70.24.21	
AHMRF	Array Induction Mud Resistivity Factor	1	
AHORSV	Array Induction Response Set Version for One ft Resolution	40.70.24.21	
AHRFV	Array Induction Radial Profiling Code Version Number	700	
AHRPV	Array Induction Radial Parametrization Code Version Number	223	
AHSTA	Array Induction Tool Standoff	1.5	IN
AHTRSV	Array Induction Response Set Version for Two ft Resolution	40.70.24.21	
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90	
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	56	DEGC
BSCO	Borehole Salinity Correction Option	YES	
CCCO	Casing & Cement Thickness Correction Option	NO	
DFB	HILT Nuclear Mud Base	Water	
DHC	Density Hole Correction	BS	
FD	Fluid Density	1	G/C3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	0.81	
FPHI	Form Factor Porosity Source	DPHZ	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	YES	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.65	G/C3
MWCO	Mud Weight Correction Option	YES	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	StdRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PTCO	Pressure/Temperature Correction Option	YES	
RTCO	RTCO - Rt Invasion Correction	YES	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
SPDR	SP Drift	0	MV/M
SPNV	SP Next Value	-30	MV
	RWA: Apparent Water Resistivity		
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	0.81	
FPHI	Form Factor Porosity Source	DPHZ	
RTCO	RTCO - Rt Invasion Correction	YES	
	ALLRES: Basic Resistivity Transforms		
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90	
RTCO	RTCO - Rt Invasion Correction	YES	
	HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	56	DEGC
FCD	Future Casing (Outer) Diameter	5.5	IN
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HVCS	Integrated Hole Volume Caliper Selection	HCAL	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
	STI: Stuck Tool Indicator		
TDL	Total Depth - Logger	1304.00	M
	System and Miscellaneous		
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	600.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	32.30	LB/F
DFD	Drilling Fluid Density	1.18	G/C3
DO	Depth Offset for Playback	1.1	M
DORL	Depth Offset for Repeat Analysis	0.0	M
MST	Mud Sample Temperature	13.00	DEGC
PP	Playback Processing	NORMAL	
RMFC	Resistivity of Mud Filtrate Sample	1.0500	OHMM

RMFS	Resistivity of Mud Filtrate Sample	1.0500	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1304	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: COMBINADA_REP Vertical Scale: 1:200 Graphics File Created: 15-May-2006 11:19

OP System Version: 13C0-300
MCM

HILTB-FTB SRPC-2718-HILT DTC-H 13C0-300

Input DLIS Files

DEFAULT	Repeat_013LUP	FN:14	PRODUCER	14-May-2006 19:05	1309.4 M	1028.7 M
DEFAULT	AIT_TLD_MCFL_CNL_056PUP	FN:2	PRODUCER	15-May-2006 10:40	1307.6 M	105.0 M

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_061PUP	FN:12	PRODUCER	15-May-2006 11:19		
CLIENT	AIT_TLD_MCFL_CNL_061PUC	FN:13	CUSTOMER	15-May-2006 11:19		



CHEQUEO EN CAÑERIA



Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_070PUP	FN:30	PRODUCER	15-May-2006 11:37	131.1 M	103.0 M
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_073PUP	FN:35	PRODUCER	15-May-2006 11:41	131.1 M	104.4 M
CLIENT	AIT_TLD_MCFL_CNL_073PUC	FN:36	CUSTOMER	15-May-2006 11:41	131.1 M	104.4 M

Integrated Hole/Cement Volume Summary

Hole Volume = 1.09 M3
 Cement Volume = 0.83 M3 (assuming 5.50 IN casing O.D.)
 Computed from 131.1 M to 114.0 M using data channel(s) HCAL

OP System Version: 13C0-300
MCM

HILTB-FTB SRPC-2718-HILT DTC-H 13C0-300

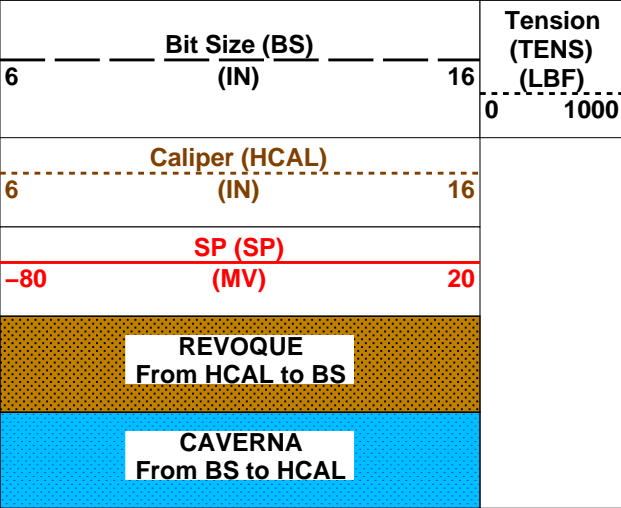
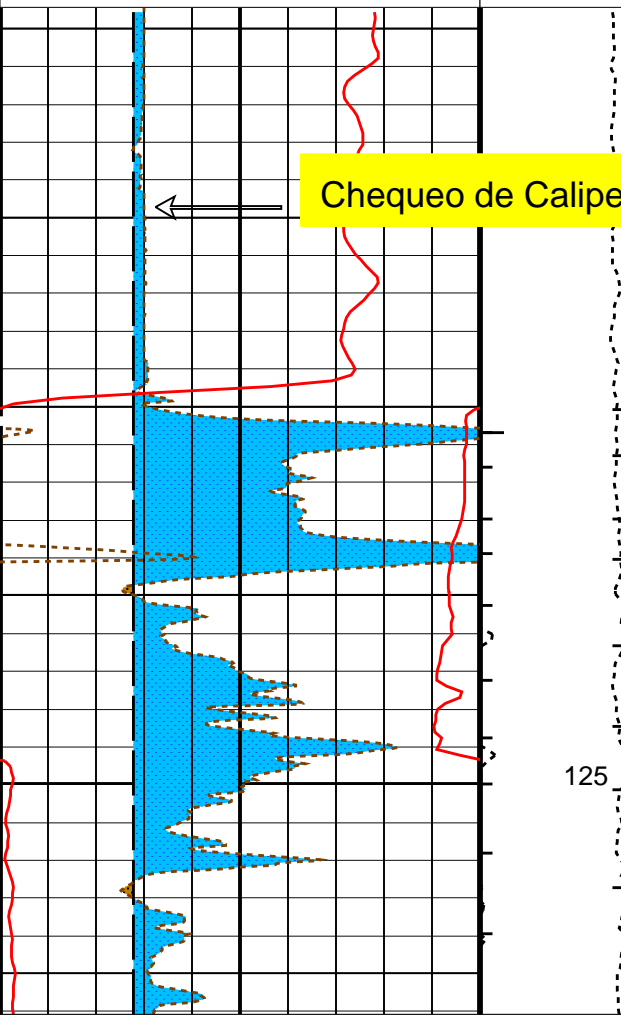
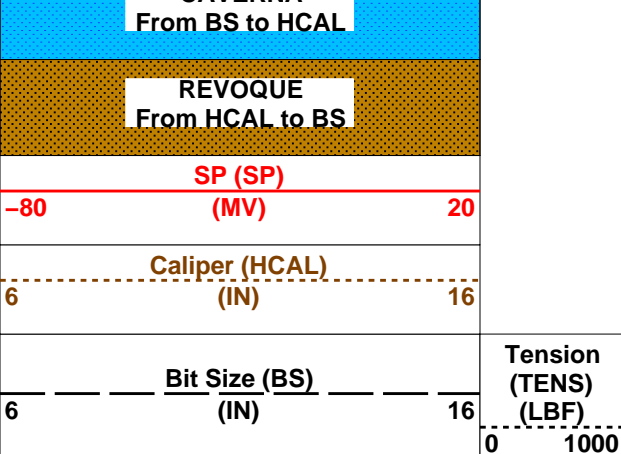
Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
SPDR	0 MV/M	0 MV/M	131.1 11:41:04

PIP SUMMARY

- ┆ Integrated Hole Volume Minor Pip Every 0.1 M3
- ┆ Integrated Hole Volume Major Pip Every 1 M3
- ┆ Integrated Cement Volume Minor Pip Every 0.1 M3
- ┆ Integrated Cement Volume Major Pip Every 1 M3

Time Mark Every 60 S



PIP SUMMARY

- ┌ Integrated Hole Volume Minor Pip Every 0.1 M3
- ┌ Integrated Hole Volume Major Pip Every 1 M3
- ┌ Integrated Cement Volume Minor Pip Every 0.1 M3

Parameters

DLIS Name	Description	Value
	HILTB-FTB: High resolution Integrated Logging Tool-DTS	
SPDR	SP Drift	0 MV/M
SPNV	SP Next Value	-30 MV
	HOLEV: Integrated Hole/Cement Volume	
FCD	Future Casing (Outer) Diameter	5.5 IN
HVCS	Integrated Hole Volume Caliper Selection	HCAL
	System and Miscellaneous	
BS	Bit Size	8.750 IN
DO	Depth Offset for Playback	0.0 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	NORMAL
TD	Total Depth	1304 M

Format: CALIPER Vertical Scale: 1:200

Graphics File Created: 15-May-2006 11:41

OP System Version: 13C0-300

MCM

HILTB-FTB SRPC-2718-HILT DTC-H 13C0-300

Input DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_070PUP FN:30 PRODUCER 15-May-2006 11:37 131.1 M 103.0 M

Output DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_073PUP FN:35 PRODUCER 15-May-2006 11:41
 CLIENT AIT_TLD_MCFL_CNL_073PUC FN:36 CUSTOMER 15-May-2006 11:41

Input DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_070PUP FN:30 PRODUCER 15-May-2006 11:37 131.1 M 103.0 M
 DEFAULT AIT_TLD_MCFL_CNL_056PUP FN:2 PRODUCER 15-May-2006 10:40 1307.6 M 105.0 M

Output DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_073PUP FN:35 PRODUCER 15-May-2006 11:41 131.1 M 104.4 M
 CLIENT AIT_TLD_MCFL_CNL_073PUC FN:36 CUSTOMER 15-May-2006 11:41 131.1 M 104.4 M

Integrated Hole/Cement Volume Summary

Hole Volume = 1.09 M3
 Cement Volume = 0.83 M3 (assuming 5.50 IN casing O.D.)
 Computed from 131.1 M to 114.0 M using data channel(s) HCAL

OP System Version: 13C0-300

MCM

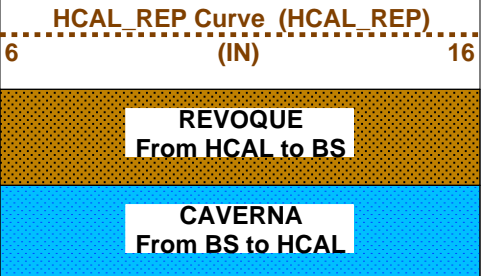
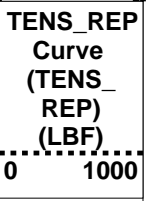
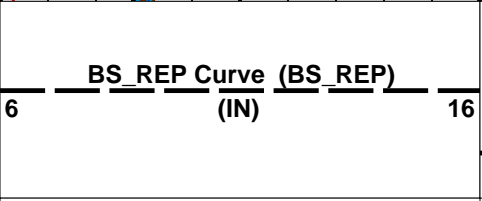
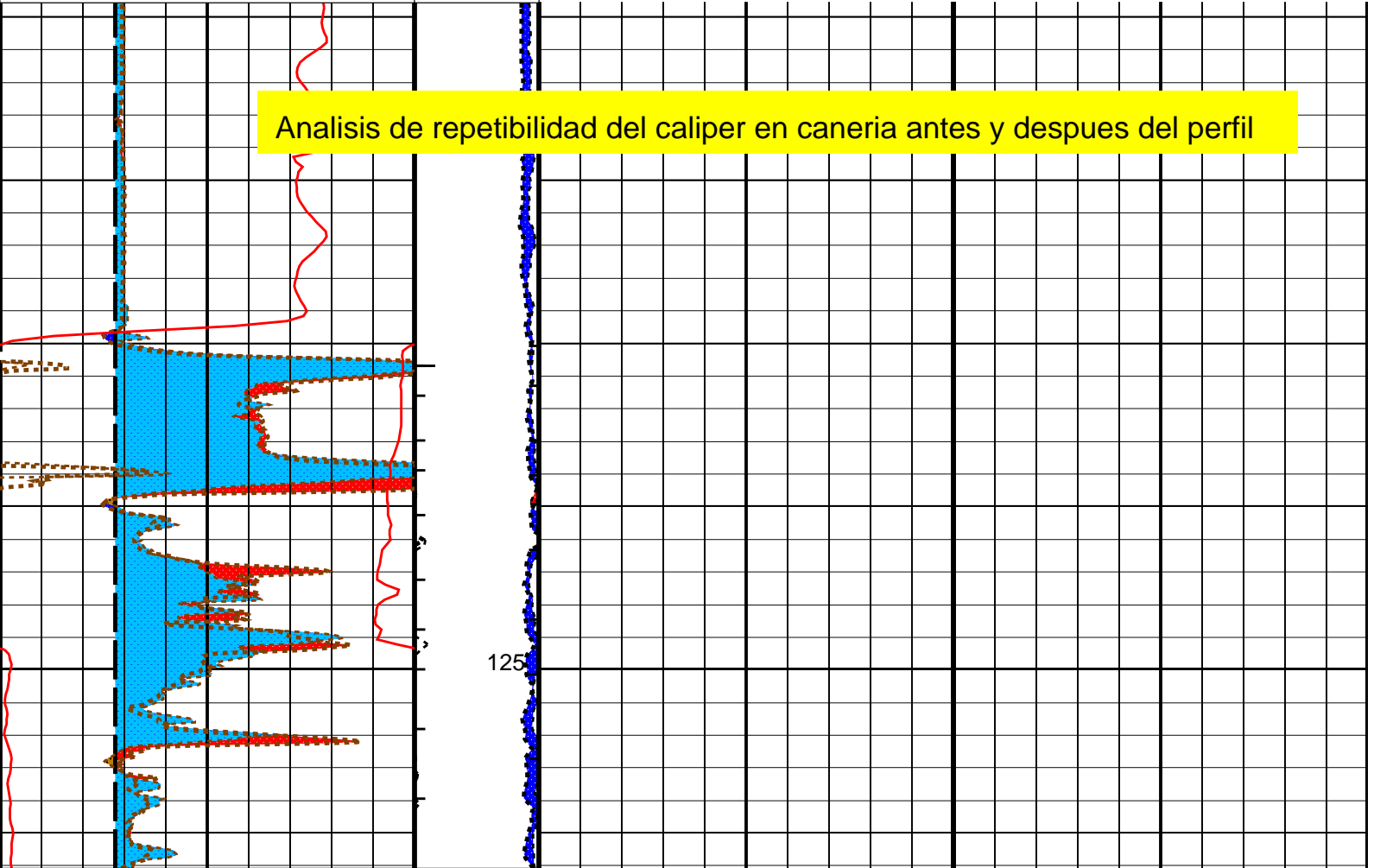
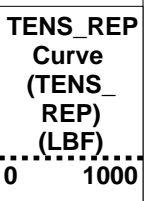
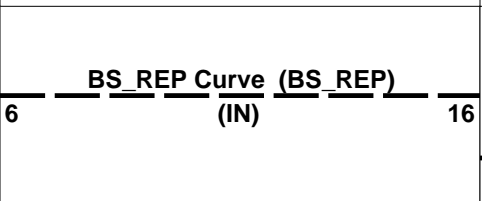
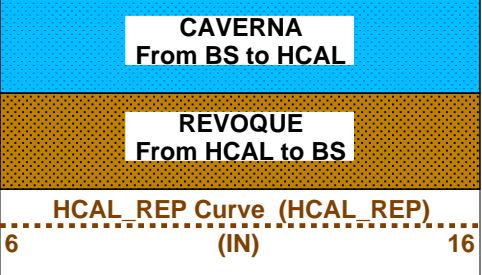
HILTB-FTB SRPC-2718-HILT DTC-H 13C0-300

Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
SPDR	0 MV/M	0 MV/M	131.1 11:41:04

PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Cement Volume Minor Pip Every 0.1 M3
 - └ Integrated Cement Volume Major Pip Every 1 M3



PIP SUMMARY

- ┆ Integrated Hole Volume Minor Pip Every 0.1 M3
- ┆ Integrated Hole Volume Major Pip Every 1 M3
- ┆ Integrated Cement Volume Minor Pip Every 0.1 M3
- ┆ Integrated Cement Volume Major Pip Every 1 M3

Parameters

DLIS Name	Description	Value
HILTB-FTB: High resolution Integrated Logging Tool-DTS		
SPDR	SP Drift	0 MV/M
SPNV	SP Next Value	-30 MV
HOLEV: Integrated Hole/Cement Volume		
FCD	Future Casing (Outer) Diameter	5.5 IN
HVCS	Integrated Hole Volume Caliper Selection	HCAL
System and Miscellaneous		
BS	Bit Size	8.750 IN
DO	Depth Offset for Playback	0.0 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	NORMAL
TD	Total Depth	1304 M

Format: CALIPER_REP Vertical Scale: 1:200 Graphics File Created: 15-May-2006 11:41

OP System Version: 13C0-300

MCM

HILTB-FTB SRPC-2718-HILT DTC-H 13C0-300

Input DLIS Files

DLIS Name	File Name	FN	Producer	Date	Size	Volume
DEFAULT	AIT_TLD_MCFL_CNL_070PUP	FN:30	PRODUCER	15-May-2006 11:37	131.1 M	103.0 M
DEFAULT	AIT_TLD_MCFL_CNL_056PUP	FN:2	PRODUCER	15-May-2006 10:40	1307.6 M	105.0 M

Output DLIS Files

DLIS Name	File Name	FN	Producer	Date
DEFAULT	AIT_TLD_MCFL_CNL_073PUP	FN:35	PRODUCER	15-May-2006 11:41
CLIENT	AIT_TLD_MCFL_CNL_073PUC	FN:36	CUSTOMER	15-May-2006 11:41



CALIBRACIONES

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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High resolution Integrated Logging Tool-DTS Wellsite Calibration - Electronics Calibration Check - Thru Cal Mag. & Phase

Master: 23-Mar-2006 18:58 Before: 14-May-2006 8:56

Thru Cal Magnitude - 0	0	0.6245	0.6266	N/A	N/A	N/A	V
Thru Cal Magnitude - 1	0	1.280	1.285	N/A	N/A	N/A	V
Thru Cal Magnitude - 2	0	0.6347	0.6370	N/A	N/A	N/A	V
Thru Cal Magnitude - 3	0	0.7178	0.7204	N/A	N/A	N/A	V
Thru Cal Magnitude - 4	0	1.343	1.348	N/A	N/A	N/A	V
Thru Cal Magnitude - 5	0	1.939	1.947	N/A	N/A	N/A	V
Thru Cal Magnitude - 6	0	1.936	1.944	N/A	N/A	N/A	V
Thru Cal Magnitude - 7	0	1.369	1.377	N/A	N/A	N/A	V
Phase - 0	0	62.23	63.07	N/A	N/A	N/A	DEG
Phase - 1	0	61.23	62.08	N/A	N/A	N/A	DEG
Phase - 2	0	57.04	57.91	N/A	N/A	N/A	DEG
Phase - 3	0	56.17	57.04	N/A	N/A	N/A	DEG
Phase - 4	0	49.23	50.14	N/A	N/A	N/A	DEG
Phase - 5	0	47.15	48.09	N/A	N/A	N/A	DEG
Phase - 6	0	47.18	48.11	N/A	N/A	N/A	DEG
Phase - 7	0	42.25	43.41	N/A	N/A	N/A	DEG

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Electronics Calibration Check – Auxilliary

Master: 23–Mar–2006 18:58 Before: 14–May–2006 8:56

Array Induction SPA Plus	990.5	990.3	990.9	N/A	N/A	N/A	MV
Array Induction SPA Zero	0	-0.2245	-0.2063	N/A	N/A	N/A	MV
Array Induction Temperature PI	0.9150	0.9169	0.9175	N/A	N/A	N/A	V
Array Induction Temperature Ze	0	-0.0002196	-0.0002039	N/A	N/A	N/A	V

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Test Loop Gain Correction

Master: 23–Mar–2006 18:58

Test Loop Gain Magnitude – 0	0	1.025	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 1	0	1.014	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 2	0	1.013	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 3	0	1.014	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 4	0	0.9949	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 5	0	1.010	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 6	0	1.020	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 7	0	1.031	N/A	N/A	N/A	N/A	V
Phase – 0	0	0.4089	N/A	N/A	N/A	N/A	DEG
Phase – 1	0	0.4331	N/A	N/A	N/A	N/A	DEG
Phase – 2	0	-0.009325	N/A	N/A	N/A	N/A	DEG
Phase – 3	0	0.001994	N/A	N/A	N/A	N/A	DEG
Phase – 4	0	-0.06843	N/A	N/A	N/A	N/A	DEG
Phase – 5	0	-0.2029	N/A	N/A	N/A	N/A	DEG
Phase – 6	0	0.1273	N/A	N/A	N/A	N/A	DEG
Phase – 7	0	-0.3357	N/A	N/A	N/A	N/A	DEG

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Sonde Error Correction

Master: 23–Mar–2006 18:58

R Sonde Error Correction – 0	0	-125.4	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 1	0	161.1	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 2	0	109.1	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 3	0	53.86	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 4	0	26.25	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 5	0	11.20	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 6	0	8.958	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 7	0	-0.7185	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 0	0	65.37	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 1	0	-177.0	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 2	0	-119.7	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 3	0	112.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 4	0	1.011	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 5	0	8.280	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 6	0	0.9439	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 7	0	1.044	N/A	N/A	N/A	N/A	MM/M

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Mud Gain Correction

Master: 23–Mar–2006 18:58

Coarse – Mag, Real, Imag – 0	0	1.163	N/A	N/A	N/A	N/A
Coarse – Mag, Real, Imag – 1	0	1.163	N/A	N/A	N/A	N/A
Coarse – Mag, Real, Imag – 2	0	1.163	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 0	0	1.156	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 1	0	1.156	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 2	0	1.156	N/A	N/A	N/A	N/A

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Stab Measurement Summary

Before: 14–May–2006 9:03

BS Window Ratio	0.7110	N/A	0.7111	N/A	N/A	N/A
BS Window Sum	11350	N/A	11310	N/A	N/A	N/A
SS Window Ratio	0.4774	N/A	0.4776	N/A	N/A	N/A
SS Window Sum	11280	N/A	11280	N/A	N/A	N/A
LS Window Ratio	0.2969	N/A	0.2979	N/A	N/A	N/A
LS Window Sum	1256	N/A	1248	N/A	N/A	N/A

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Photo–multiplier High Voltages Calibrations

Before: 14–May–2006 9:03

BS PM High Voltage (Command)	1678	N/A	1694	N/A	N/A	N/A
SS PM High Voltage (Command)	1822	N/A	1816	N/A	N/A	N/A
LS PM High Voltage (Command)	1313	N/A	1329	N/A	N/A	N/A

High resolution Integrated Logging Tool–DTS Wellsite Calibration – Crystal Quality Resolutions Calibration

Before: 14–May–2006 9:03

BS Crystal Resolution	12.68	N/A	12.81	N/A	N/A	N/A
SS Crystal Resolution	10.07	N/A	9.999	N/A	N/A	N/A
LS Crystal Resolution	9.260	N/A	9.541	N/A	N/A	N/A

High resolution Integrated Logging Tool–DTS Wellsite Calibration – MCFL Calibration

Before: 14–May–2006 8:57

Raw B0 Resistivity	3875	N/A	3909	N/A	N/A	N/A
Raw B1 Resistivity	3830	N/A	3836	N/A	N/A	N/A
Raw B2 Resistivity	3830	N/A	3833	N/A	N/A	N/A

High resolution Integrated Logging Tool-DTS Wellsite Calibration – HILT Caliper Calibration

Before: 14-May-2006 8:59

HILT Caliper Zero Measurement	8.000	N/A	8.032	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	12.00	N/A	11.94	N/A	N/A	N/A	IN

High resolution Integrated Logging Tool-DTS Wellsite Calibration – Detector Calibration

Before: 14-May-2006 9:04

Gamma Ray Background	30.00	N/A	26.16	N/A	N/A	N/A	GAPI
Gamma Ray (Jig – Bkg)	180.2	N/A	180.2	N/A	N/A	16.38	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

High resolution Integrated Logging Tool-DTS Wellsite Calibration – Zero Measurement

Master: 28-Apr-2006 10:21 Before: 14-May-2006 8:56

CNTC Background	25.95	25.95	26.11	N/A	N/A	3.893	CPS
CFTC Background	25.65	25.65	24.54	N/A	N/A	3.848	CPS

High resolution Integrated Logging Tool-DTS Wellsite Calibration – Ratio Measurement

Master: 28-Apr-2006 10:21

Thermal Near Corr. (Tank)	6031	5526	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2793	2374	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.328	N/A	N/A	N/A	N/A	

High resolution Integrated Logging Tool-DTS Wellsite Calibration – Accelerometer Calibration

Before: 14-May-2006 9:02

Z-Axis Acceleration	9.810	N/A	9.807	N/A	N/A	N/A	M/S2
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High resolution Integrated Logging Tool-DTS Master Calibration – Inversion results

Master: 27-Apr-2006 16:48

Rho Aluminum	2.596	2.601	--	--	--	--	G/C3
Rho Magnesium	1.686	1.685	--	--	--	--	G/C3
Pe Aluminum	2.570	2.553	--	--	--	--	
Pe Magnesium	2.650	2.634	--	--	--	--	

High resolution Integrated Logging Tool-DTS Master Calibration – Deviation Summary

Master: 27-Apr-2006 16:48

BS Average Deviation	0	0.4555	--	--	--	--	%
BS Max Deviation	0	1.070	--	--	--	--	%
SS Average Deviation	0	0.2381	--	--	--	--	%
SS Max Deviation	0	0.7607	--	--	--	--	%
LS Average Deviation	0	0.5361	--	--	--	--	%
LS Max Deviation	0	1.149	--	--	--	--	%

The GLS-VJ source activity is acceptable.

The HGNS Neutron Master Calibration was done with the following parameters :

NCT-B Water Temperature 15.0 DEGC.
 Thermal Housing Size 3.371 IN.
 NSR-F serial number 5045

High resolution Integrated Logging Tool-DTS / Equipment Identification

Primary Equipment:

Array Induction Tool – H	AIT – H	
Rm/SP Bottom Nose	AHRM – A	
Array Induction Sonde	AHIS – BA	379
HILT high-Resolution Mechanical Sonde	HRMS – B	1876
HILT Rxo Gamma-ray Device	HRGD – B	1773
HILT Micro Cylindrically Focused Log Dev	MCFL –	
GR Logging Source	GLS – VJ	5065
HILT High Res. Control Cartridge	HRCC – B	1863

Auxiliary Equipment:

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Electronics Calibration Check – Thru Cal Mag. & Phase

Idx	Phase	Value	Thru Cal Magnitude V	Nominal	Value	Phase DEG	Nominal
0	Master	0.6245		0.6050	62.23		71.00
	Before	0.6266			63.07		

1	Master	1.280		1.270	61.23		70.00
	Before	1.285			62.08		
2	Master	0.6347		0.6230	57.04		66.00
	Before	0.6370			57.91		
3	Master	0.7178		0.7040	56.17		65.00
	Before	0.7204			57.04		
4	Master	1.343		1.337	49.23		59.00
	Before	1.348			50.14		
5	Master	1.939		1.955	47.15		57.00
	Before	1.947			48.09		
6	Master	1.936		1.955	47.18		57.00
	Before	1.944			48.11		
7	Master	1.369		1.415	42.25		53.00
	Before	1.377			43.41		
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -60.00 (Minimum)	(Nominal)	Nom + 60.00 (Maximum)
Master: 23-Mar-2006 18:58				Before: 14-May-2006 8:56			

High resolution Integrated Logging Tool-DTS Wellsite Calibration						
Electronics Calibration Check - Auxilliary						
Phase	Array Induction SPA Plus MV	Value	Phase	Array Induction SPA Zero MV	Value	
Master		990.3	Master		-0.2245	
Before		990.9	Before		-0.2063	
	941.0 (Minimum)	990.5 (Nominal)	1040 (Maximum)	-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)
Phase	Array Induction Temperature Plus V	Value	Phase	Array Induction Temperature Zero V	Value	
Master		0.9169	Master		-0.0002196	
Before		0.9175	Before		-0.0002039	
	0.8700 (Minimum)	0.9150 (Nominal)	0.9600 (Maximum)	-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)
Master: 23-Mar-2006 18:58			Before: 14-May-2006 8:56			

High resolution Integrated Logging Tool-DTS Wellsite Calibration							
Test Loop Gain Correction							
Idx	Value	Test Loop Gain Magnitude V	Value	Phase DEG			
0	1.025		0.4089				
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
1	1.014		0.4331				
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
2	1.013		-0.009325				
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
3	1.014		0.001994				
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
4	0.9949		-0.06843				
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
5	1.010		-0.2029				
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
6	1.020		0.1273				
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
7	1.031		-0.3357				
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)

High resolution Integrated Logging Tool-DTS Wellsite Calibration								
Sonde Error Correction								
Idx	Value	R Sonde Error Correction MM/M			Value	X Sonde Error Correction MM/M		
0	-125.4				65.37			
		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)		-2250 (Minimum)	0 (Nominal)	2250 (Maximum)
1	161.1				-177.0			
		114.0 (Minimum)	159.0 (Nominal)	204.0 (Maximum)		-625.0 (Minimum)	0 (Nominal)	625.0 (Maximum)
2	109.1				-119.7			
		66.00 (Minimum)	111.0 (Nominal)	156.0 (Maximum)		-350.0 (Minimum)	0 (Nominal)	350.0 (Maximum)
3	53.86				112.3			
		39.00 (Minimum)	64.00 (Nominal)	89.00 (Maximum)		-250.0 (Minimum)	0 (Nominal)	250.0 (Maximum)
4	26.25				1.011			
		15.00 (Minimum)	25.00 (Nominal)	35.00 (Maximum)		-63.00 (Minimum)	0 (Nominal)	63.00 (Maximum)
5	11.20				8.280			
		4.000 (Minimum)	14.00 (Nominal)	24.00 (Maximum)		-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)
6	8.958				0.9439			
		5.000 (Minimum)	10.00 (Nominal)	15.00 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)
7	-0.7185				1.044			
		-5.000 (Minimum)	0 (Nominal)	5.000 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)

High resolution Integrated Logging Tool-DTS Wellsite Calibration								
Mud Gain Correction								
Idx	Value	Coarse - Mag, Real, Imag			Value	Fine - Mag, Real, Imag		
0	1.163				1.156			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
1	1.163				1.156			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
2	1.163				1.156			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)

High resolution Integrated Logging Tool-DTS Wellsite Calibration														
Stab Measurement Summary														
Phase	BS Window Ratio			Value	Phase	SS Window Ratio			Value	Phase	LS Window Ratio			Value
Before				0.7111	Before				0.4776	Before				0.2979
	0.6754 (Minimum)	0.7110 (Nominal)	0.7465 (Maximum)			0.4535 (Minimum)	0.4774 (Nominal)	0.5013 (Maximum)			0.2821 (Minimum)	0.2969 (Nominal)	0.3118 (Maximum)	
Phase	BS Window Sum CPS			Value	Phase	SS Window Sum CPS			Value	Phase	LS Window Sum CPS			Value
Before				11310	Before				11280	Before				1248
	10780 (Minimum)	11350 (Nominal)	11920 (Maximum)			10720 (Minimum)	11280 (Nominal)	11850 (Maximum)			1193 (Minimum)	1256 (Nominal)	1319 (Maximum)	

High resolution Integrated Logging Tool-DTS Wellsite Calibration														
Photo-multiplier High Voltages Calibrations														
Phase	BS PM High Voltage (Command) V			Value	Phase	SS PM High Voltage (Command) V			Value	Phase	LS PM High Voltage (Command) V			Value
Before				1694	Before				1816	Before				1329
	1578 (Minimum)	1678 (Nominal)	1778 (Maximum)			1722 (Minimum)	1822 (Nominal)	1922 (Maximum)			1213 (Minimum)	1313 (Nominal)	1413 (Maximum)	

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Crystal Quality Resolutions Calibration

Phase	BS Crystal Resolution %	Value	Phase	SS Crystal Resolution %	Value	Phase	LS Crystal Resolution %	Value
Before		12.81	Before		9.999	Before		9.541
	11.68 (Minimum) 12.68 (Nominal) 13.68 (Maximum)			9.073 (Minimum) 10.07 (Nominal) 11.07 (Maximum)			8.260 (Minimum) 9.260 (Nominal) 10.26 (Maximum)	

Before: 14-May-2006 9:03

High resolution Integrated Logging Tool-DTS Wellsite Calibration

MCFL Calibration

Phase	Raw B0 Resistivity OHMM	Value	Phase	Raw B1 Resistivity OHMM	Value	Phase	Raw B2 Resistivity OHMM	Value
Before		3909	Before		3836	Before		3833
	3565 (Minimum) 3875 (Nominal) 4185 (Maximum)			3524 (Minimum) 3830 (Nominal) 4136 (Maximum)			3524 (Minimum) 3830 (Nominal) 4136 (Maximum)	

Before: 14-May-2006 8:57

High resolution Integrated Logging Tool-DTS Wellsite Calibration

HILT Caliper Calibration

Phase	HILT Caliper Zero Measurement IN	Value	Phase	HILT Caliper Plus Measurement IN	Value
Before		8.032	Before		11.94
	6.000 (Minimum) 8.000 (Nominal) 10.00 (Maximum)			9.000 (Minimum) 12.00 (Nominal) 15.00 (Maximum)	

Before: 14-May-2006 8:59

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		26.16	Before		180.2	Before		165.0
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			163.8 (Minimum) 180.2 (Nominal) 196.6 (Maximum)			150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)	

Before: 14-May-2006 9:04

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Zero Measurement

Phase	CNTC Background CPS	Value	Phase	CFTC Background CPS	Value
Master		25.95	Master		25.65
Before		26.11	Before		24.54
	5.000 (Minimum) 25.95 (Nominal) 40.00 (Maximum)			5.000 (Minimum) 25.65 (Nominal) 40.00 (Maximum)	

Master: 28-Apr-2006 10:21

Before: 14-May-2006 8:56

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Ratio Measurement

Phase	Thermal Near Corr. (Tank) CPS	Value	Phase	Thermal Far Corr. (Tank) CPS	Value	Phase	CNTC/CFTC (Tank)	Value
Master		5526	Master		2374	Master		2.328
	5000 (Minimum) 6031 (Nominal) 7200 (Maximum)			2075 (Minimum) 2793 (Nominal) 3125 (Maximum)			2.120 (Minimum) 2.159 (Nominal) 2.540 (Maximum)	

Master: 28-Apr-2006 10:21

High resolution Integrated Logging Tool-DTS Wellsite Calibration

Accelerometer Calibration

Phase	Z-Axis Acceleration M/S2	Value
Before		9.807
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	

Before: 14-May-2006 9:02

High resolution Integrated Logging Tool-DTS Master Calibration

Electronics Calibration Check - Thru Cal Mag. & Phase

Idx	Phase	Value	Thru Cal Magnitude V	Nominal	Value	Phase DEG	Nominal
0	Master	0.6245		0.6050	62.23		71.00
1	Master	1.280		1.270	61.23		70.00
2	Master	0.6347		0.6230	57.04		66.00

3	Master	0.7178		0.7040	56.17		65.00	
4	Master	1.343		1.337	49.23		59.00	
5	Master	1.939		1.955	47.15		57.00	
6	Master	1.936		1.955	47.18		57.00	
7	Master	1.369		1.415	42.25		53.00	
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -60.00 (Minimum)		(Nominal)	Nom + 60.00 (Maximum)

Master: 23-Mar-2006 18:58

High resolution Integrated Logging Tool-DTS Master Calibration						
Electronics Calibration Check - Auxilliary						
Phase	Array Induction SPA Plus MV	Value	Phase	Array Induction SPA Zero MV	Value	
Master		990.3	Master		-0.2245	
		941.0 (Minimum)	990.5 (Nominal)	1040 (Maximum)		
			-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)	
Phase	Array Induction Temperature Plus V	Value	Phase	Array Induction Temperature Zero V	Value	
Master		0.9169	Master		-0.0002196	
		0.8700 (Minimum)	0.9150 (Nominal)	0.9600 (Maximum)		
			-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)	

Master: 23-Mar-2006 18:58


High resolution Integrated Logging Tool-DTS Master Calibration						
Test Loop Gain Correction						
Idx	Value	Test Loop Gain Magnitude V	Value	Phase DEG		
0	1.025		0.4089			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		
			-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
1	1.014		0.4331			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		
			-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
2	1.013		-0.009325			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		
			-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
3	1.014		0.001994			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		
			-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
4	0.9949		-0.06843			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		
			-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
5	1.010		-0.2029			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		
			-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
6	1.020		0.1273			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		
			-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	
7	1.031		-0.3357			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		
			-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)	

Master: 23-Mar-2006 18:58

High resolution Integrated Logging Tool-DTS Master Calibration						
Sonde Error Correction						
Idx	Value	R Sonde Error Correction MM/M	Value	X Sonde Error Correction MM/M		
0	-125.4		65.37			
		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)		
			-2250 (Minimum)	0 (Nominal)	2250 (Maximum)	
1	161.1		-177.0			
		114.0 (Minimum)	159.0 (Nominal)	204.0 (Maximum)		
			-625.0 (Minimum)	0 (Nominal)	625.0 (Maximum)	
2	109.1		-119.7			
		66.00 (Minimum)	111.0 (Nominal)	156.0 (Maximum)		
			-350.0 (Minimum)	0 (Nominal)	350.0 (Maximum)	
3	53.86		112.3			

Master		5526	Master		2374	Master		2.328
5000 (Minimum)	6031 (Nominal)	7200 (Maximum)	2075 (Minimum)	2793 (Nominal)	3125 (Maximum)	2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)

Master: 28-Apr-2006 10:21

COMPANIA: YPF S.A. POZO: YPF.Ch.LC-682 CAMPO: LA CAROLINA PROVINCIA: CHUBUT PAIS: ARGENTINA	PRIMERA LECTURA	1301.1 m
	PROFUNDIDAD PERFIL	1304 m
	PROF. PERFORADOR	1300 m
	BUJE DE VASTAGO	435.61 m
	MESA ROTATIVA	435.31 m
	NIVEL TERRENO	431.06 m
 COMBINADA ESCALA : 1/200		

Archivo N° Legajo

Schlumberger

Compania: **YPF S.A.**

Pozo: **YPF.Ch.LC-682**

Campo: **LA CAROLINA**

Provincia: **CHUBUT**

Pais: **ARGENTINA**

CONTROL DE CEMENTO

CBL VDL CNL CCL

1/200

Provincia: CHUBUT
 Campo: LA CAROLINA
 Locacion: CAS
 Pozo: YPF.Ch.LC-682
 Compania: YPF S.A.

LOCACION
 CAS
 X:4.946.270,33
 Y:2.573.426,60
 Elev.: B.V. 435.61 m
 N.T. 431.06 m
 M.R. 435.31 m

Ref. Permanente: NIVEL DE TERRENO Elev.: 431.06 m
 Reg. Medido Desde: NIVEL DE TERRENO 0.0 m sobre Ref. Permanente
 Perforacion Medida Desde: NIVEL DE TERRENO

Equipo	Desviacion Maxima del Hoyo	Longitud	Latitud
		X:4.946.270,33	Y:2.573.426,60

Fecha de Registro	24-May-2006		
Corrida Numero	1		
Prof. Perforador	1300 m		
Prof. Schlumberger	1278.6 m		
Primera Lectura	1278.6 m		
Ultima Lectura	750 m		
Tipo de Fluido en la Caneria	AGUA		
Salinidad			
Densidad	1.01 g/cm3		
Nivel del Fluido	0 m		
BROCA/CANERIA/TUBERIA			
Broca	8.750 in		
Desde	0 m		
Hasta	114.5 m		
Caneria / Tuberia	5.500 in		
Peso	14 lbm/ft		
Grado			
Desde	0 m		
Hasta	1300 m		
Temperaturas Maximias Medidas	63 degC		
Registro en Fondo	Hora	24-May-2006	13:01
Unidad Numero	Locacion	8116	CAS
Registrado por	D.PEROTTI		
Testigo			

DATOS PVT

Densidad del Crudo
Salinidad del Agua
Gravedad del Gas
Bo
Bw
1/Bg
Presion del Punto c
Temperatura del P
GOR en Solucion
Desviacion Maxima
DATOS DE CEMI
Primaria/Reparacion
Sarta de la Caneria
Tipo de Cemento P
Volumen
Densidad
Perdida de Agua
Aditivos
Tipo de Cemento C
Volumen
Densidad
Perdidad de Agua
Aditivos
Topo de Cemento E
Fecha de Registro
Corrida Numero
Prof. Perforador
Prof. Schlumberger
Primera Lectura
Ultima Lectura
Tipo de Fluido en la
Salinidad
Densidad
Nivel del Fluido
BROCA/CANERIA/
Broca
Desde
Hasta
Caneria / Tuberia
Peso
Grado
Desde
Hasta
Temperaturas Maxim
Registro en Fondo
Unidad Numero
Registrado por
Testigo

Reference Log Name: Combinada
 Reference Log Run Number: 14-May-2006
 Reference Log Date: 14-May-2006

Depth Control Remarks

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

LIMITACION DE RESPONSABILIDAD
 LA UTILIZACION Y CONFIANZA EN LOS DATOS AQUI GRABADOS POR PARTE DE LA NOMBRADA COMPANIA (Y POR CUALQUIERA DE SUS SUBSIDIARIAS, AFILIADAS, REPRESENTANTES, AGENTES, CONSULTORES Y EMPLEADOS) ESTA SUJETA A LOS TERMINOS Y CONDICIONES ACORDADOS ENTRE SCHLUMBERGER Y LA COMPANIA, INCLUYENDO: (a) RESTRICCIONES EN EL USO DE LOS DATOS GRABADOS; (b) LIMITACION DE RESPONSABILIDAD Y REVOCACION DE GARANTIAS EN RELACION A LA UTILIZACION Y CONFIANZA EN LOS DATOS GRABADOS POR PARTE DE LA COMPANIA, Y (c) LA SOLA Y TOTAL RESPONSABILIDAD DEL CLIENTE POR CUALQUIER INTERPRETACION HECHA O DECISION BASADA EN EL USO DE ESTOS DATOS.

OTROS SERVICIOS #1
 OS1: MASTIL
 OS2: PUNZADO 4"
 OS3:
 OS4:
 OS5: MASTIL

OTROS SERVICIOS #2
 OS1:
 OS2:
 OS3:
 OS4:
 OS5:

OBSERVACIONES: CORRIDA #1

- Perfil de correlacion de cia Schlumberger del dia 14-May-2006
- Herramienta corrida segun diagrama.
- Sonico centralizado con tres gemcos de 5.5"
- Primer tramo de registro sin correccion de profundidad
- Se registra Neutron de correlacion
- Lectura de Cbl en caneria libre 71 mv (+ - 10mv)
- Trabajo con mastil de cia Schlumberger

OBSERVACIONES: CORRIDA #2



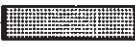



ORDEN DE SERVICIO:
 VERSION DEL PROGRAMA: 14CO-302

CORRIDA #1

CORRIDA #2

ORDEN DE SERVICIO:
 VERSION DEL PROGRAMA:

VERSION DEL TROCENRAMA: NIVEL DEL FLUIDO:		VERSION DEL TROCENRAMA: NIVEL DEL FLUIDO:	
INTERVALO REGISTRADO	COMIENZO	COMIENZO	FINAL
			0 m

DESCRIPCION DEL EQUIPO		CORRIDA #1		CORRIDA #2	
SURFACE EQUIPMENT WITM (CTS)-A					
DOWNHOLE EQUIPMENT					
PEH-A PEH-A 8116		12.80			
AH-64 AH-64 8116		12.26			
CAL-Y CAL-Y 1074	CCL 	11.85	11.61		
TCC-B ECH-KC 2552 TCC-B		10.78			
CNT-H CND-NA NLS-KL NSR-F CNC-HA CND-A 2021 NPV-N	TeIStatus CTEM 	9.87	9.87		
SDT-C SDC-CB ECH-KR 2259 SLS-WA 1208		7.66	8.52 8.37		



U-N
U-F VDL

2.63
2.32

L-F
L-N

1.49
1.18

BNS-CCS

Tension HV

0.00

0.14

TOOL ZERO

MAXIMUM STRING DIAMETER 3.38 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Schlumberger

Tramo Principal

MAXIS Field Log

Company: YPF S.A.

Well: YPF.Ch.LC-682

Output DLIS Files

DEFAULT SONIC_CNL_007LUP

FN:6 PRODUCER 24-May-2006 12:50

OP System Version: 14C0-302
MCM

SDT-C 14C0-302

CNT-H 14C0-302

PIP SUMMARY

Time Mark Every 60 S

Transit Time (Sliding Gate) (TTSL) 200
400 (US)

Fluid Compensated CBL Amplitude (CBLF) 10 (MV)
0

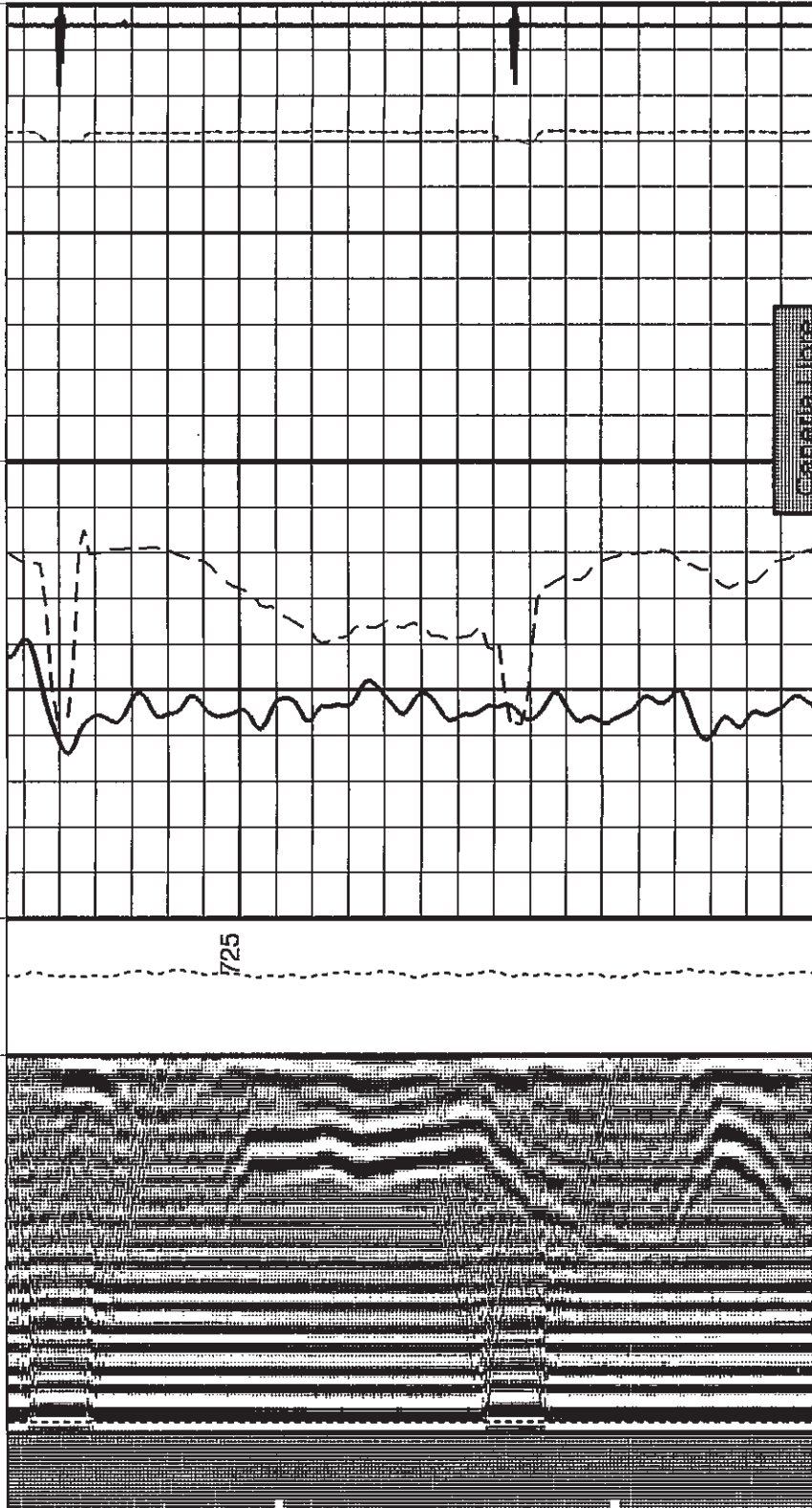
Transit Time (TT) 200 (US)
400

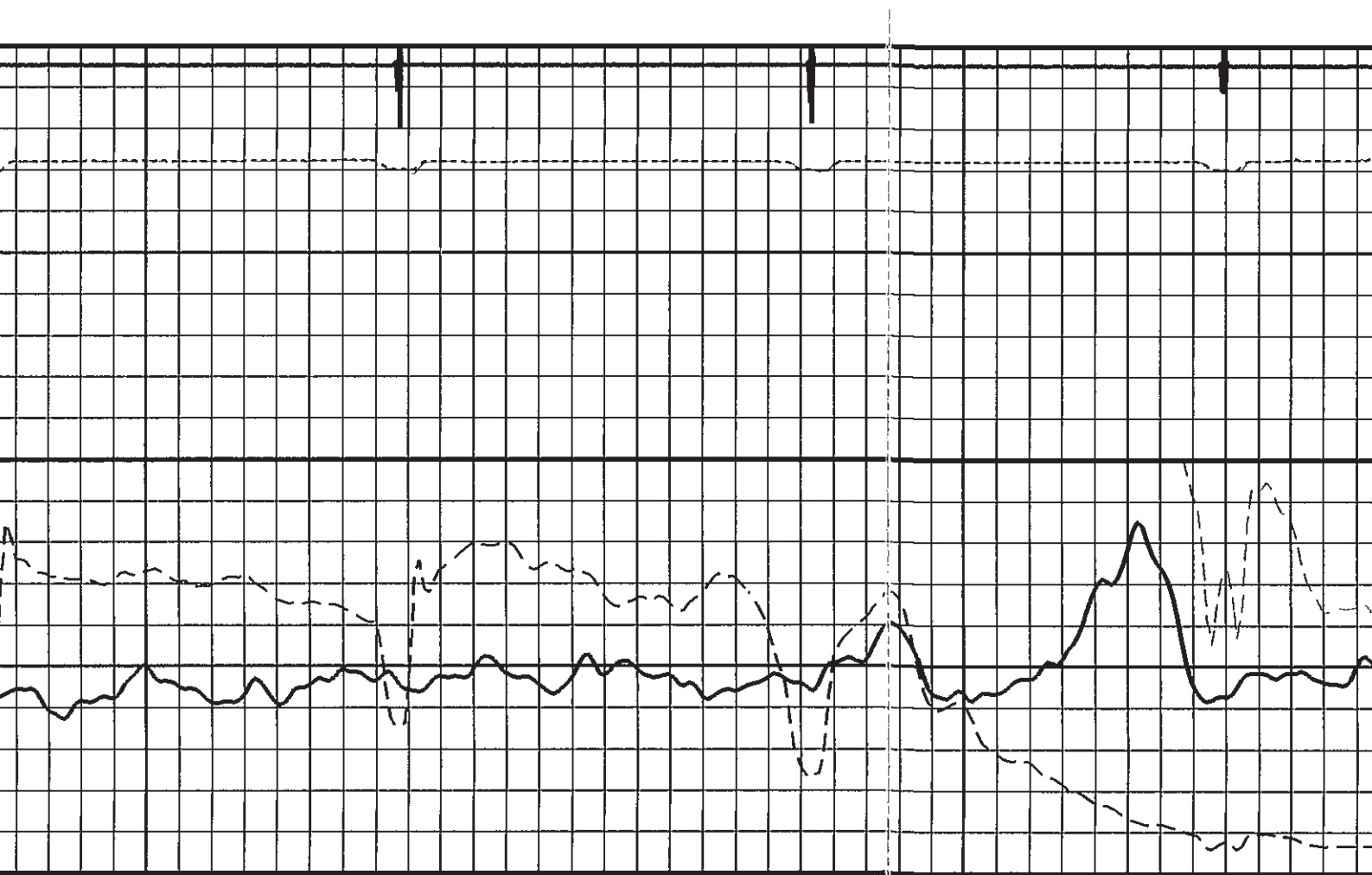
Far Thermal Counts (CFTC) 1500 (CPS)
0

Fluid Compensated CBL Amplitude (CBLF) 100 (MV)
0

Casing Collar Locator (CCL) 1 (---)
-19

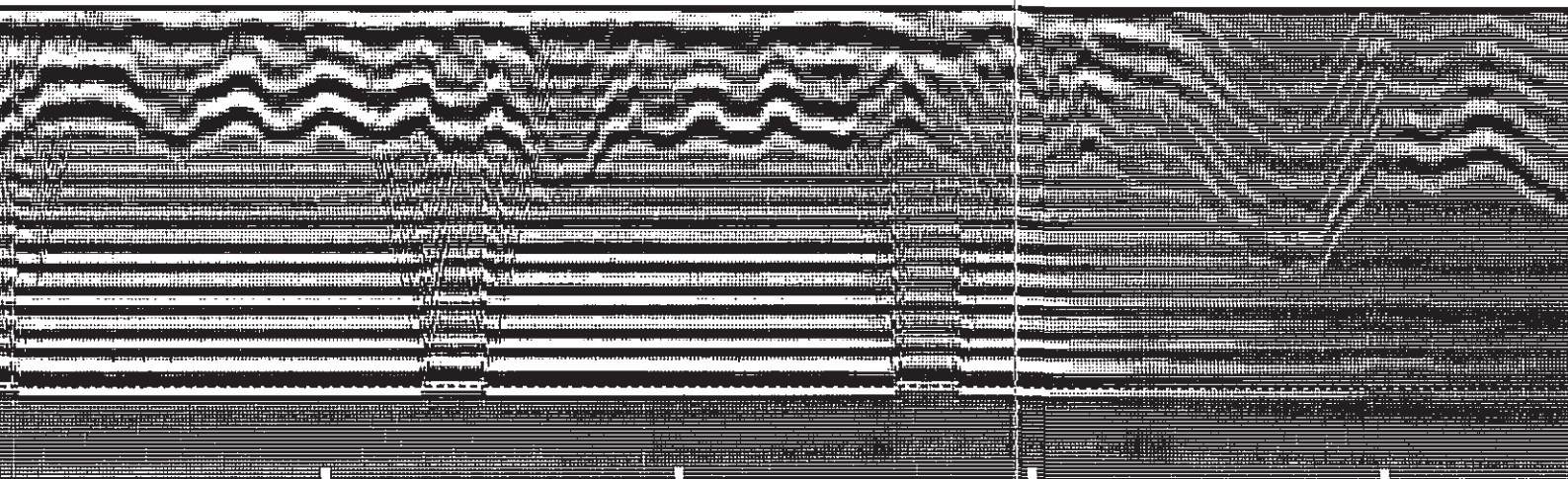
Tension (TENS) 1000 (LBF)
725

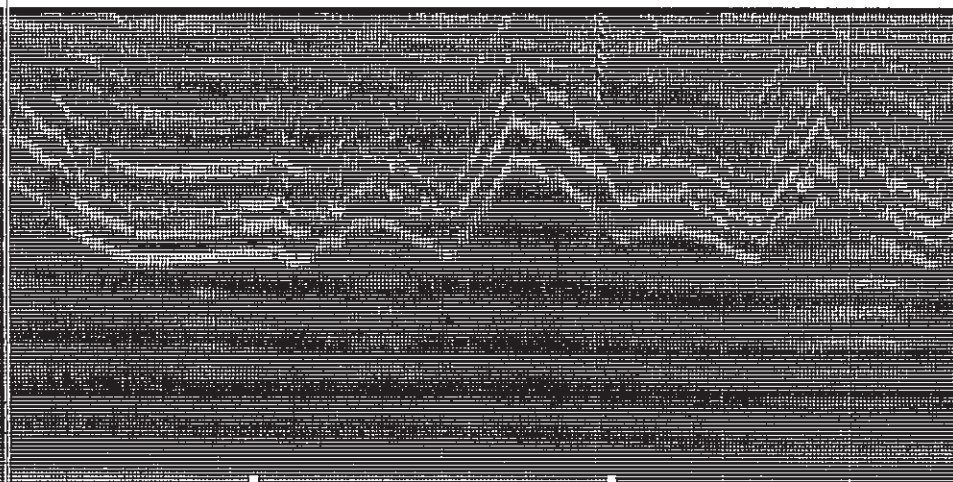
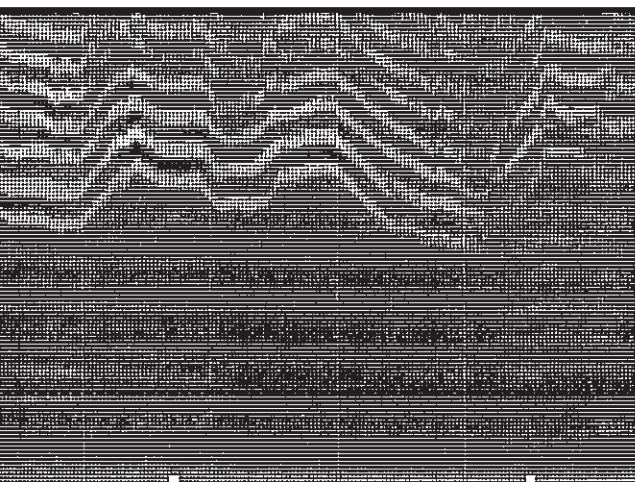
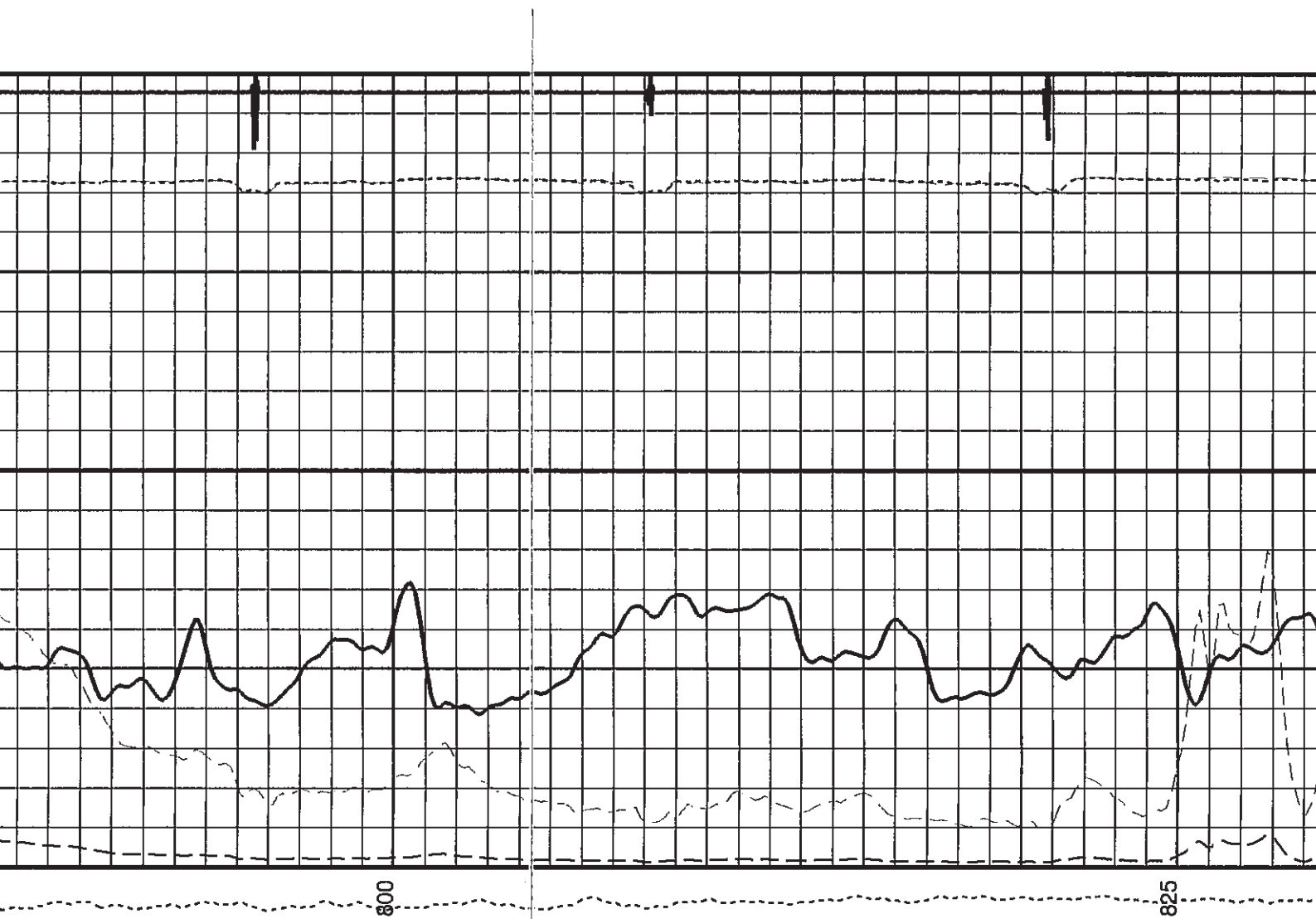


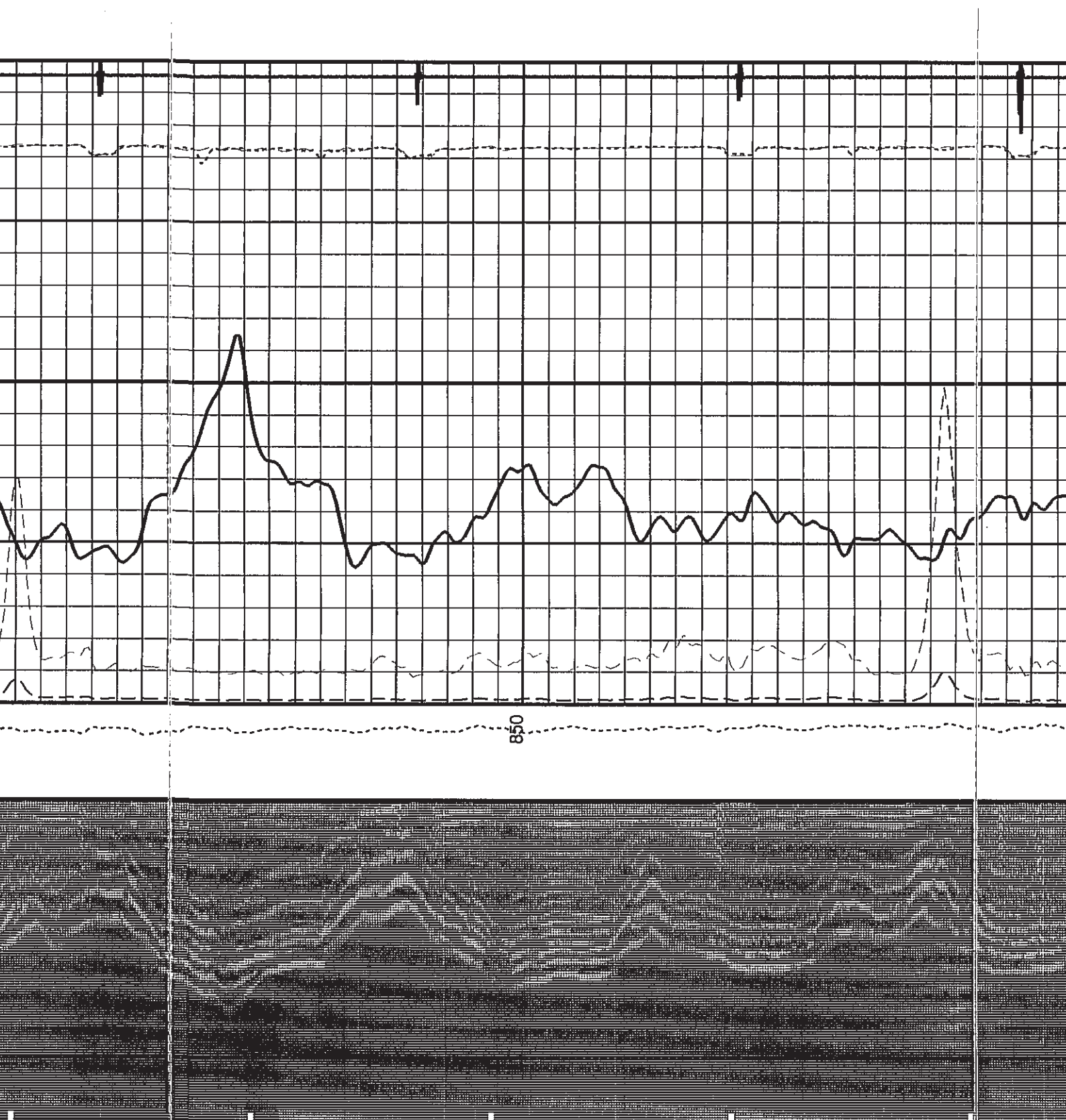


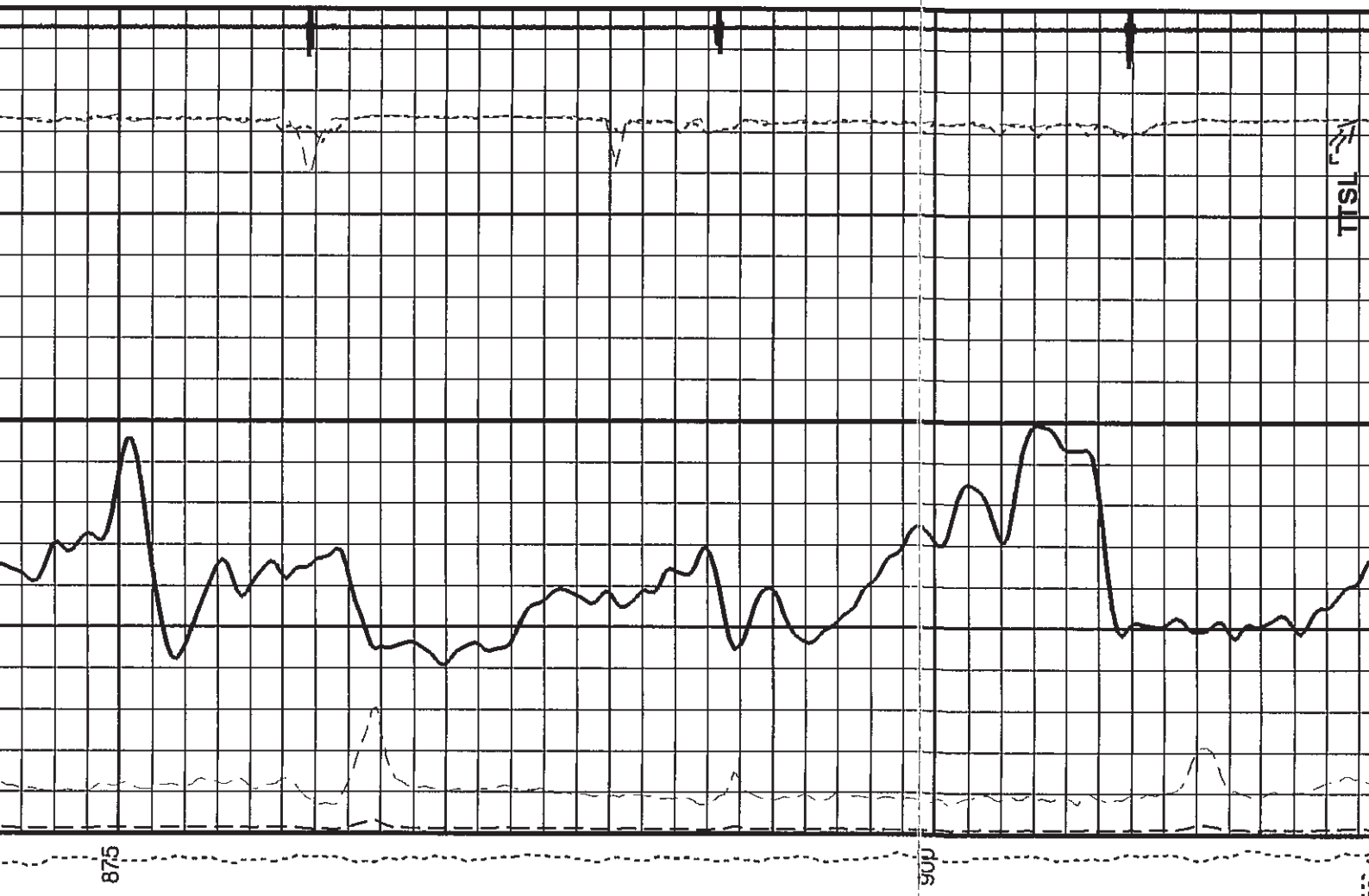
750

775



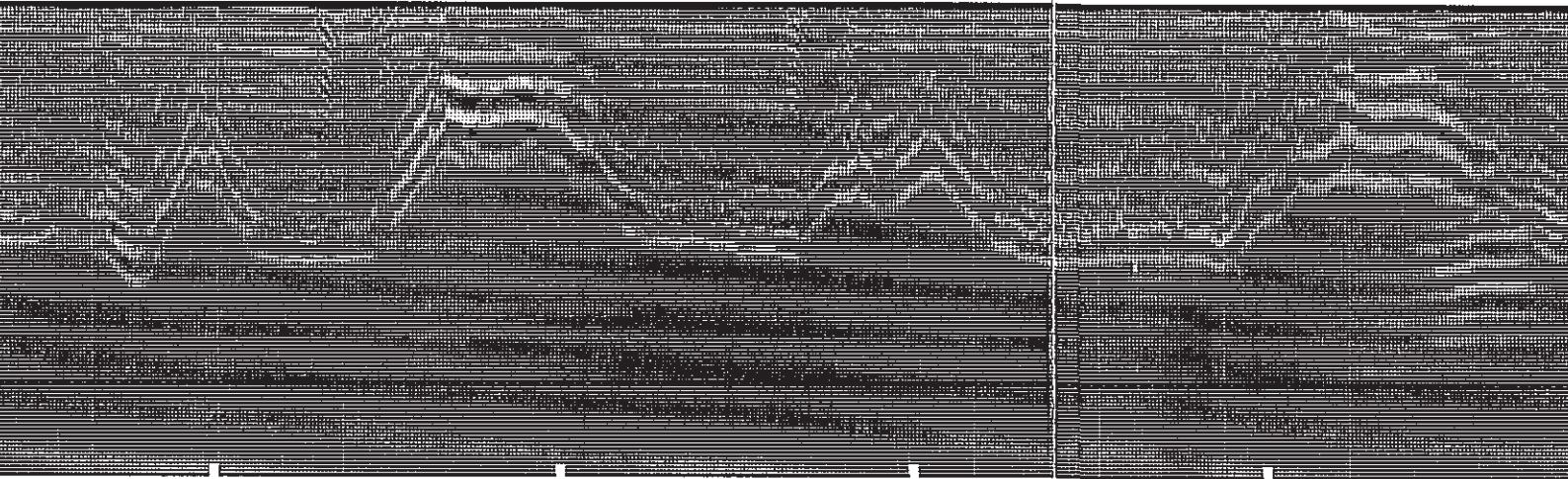


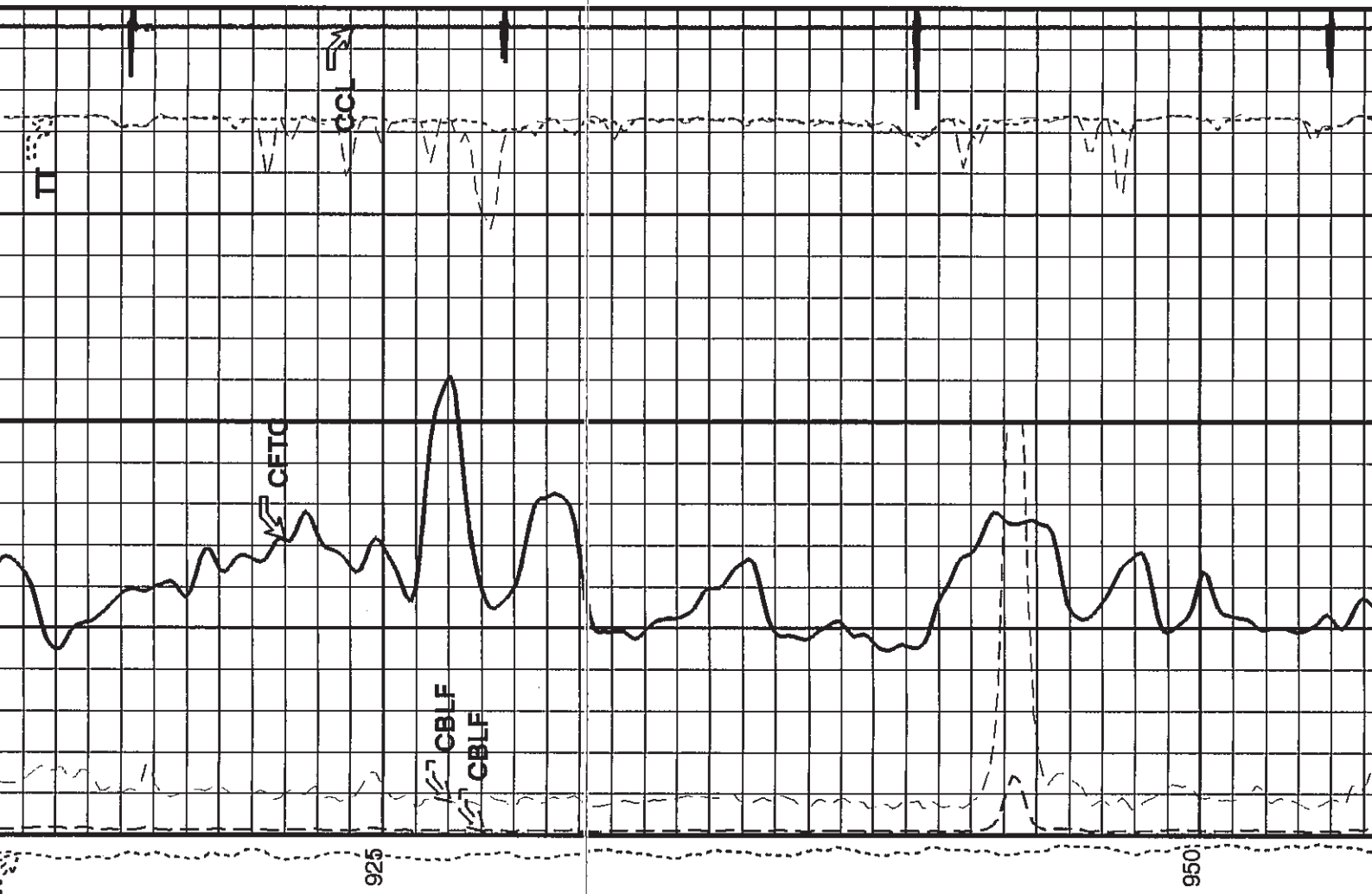




875

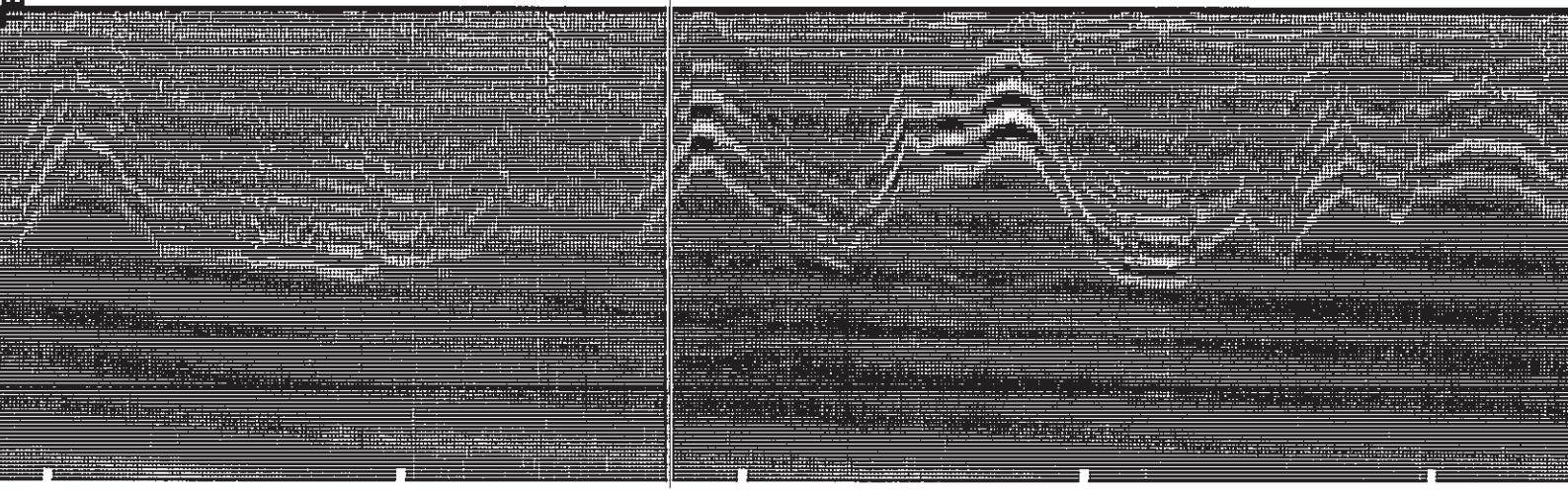
900

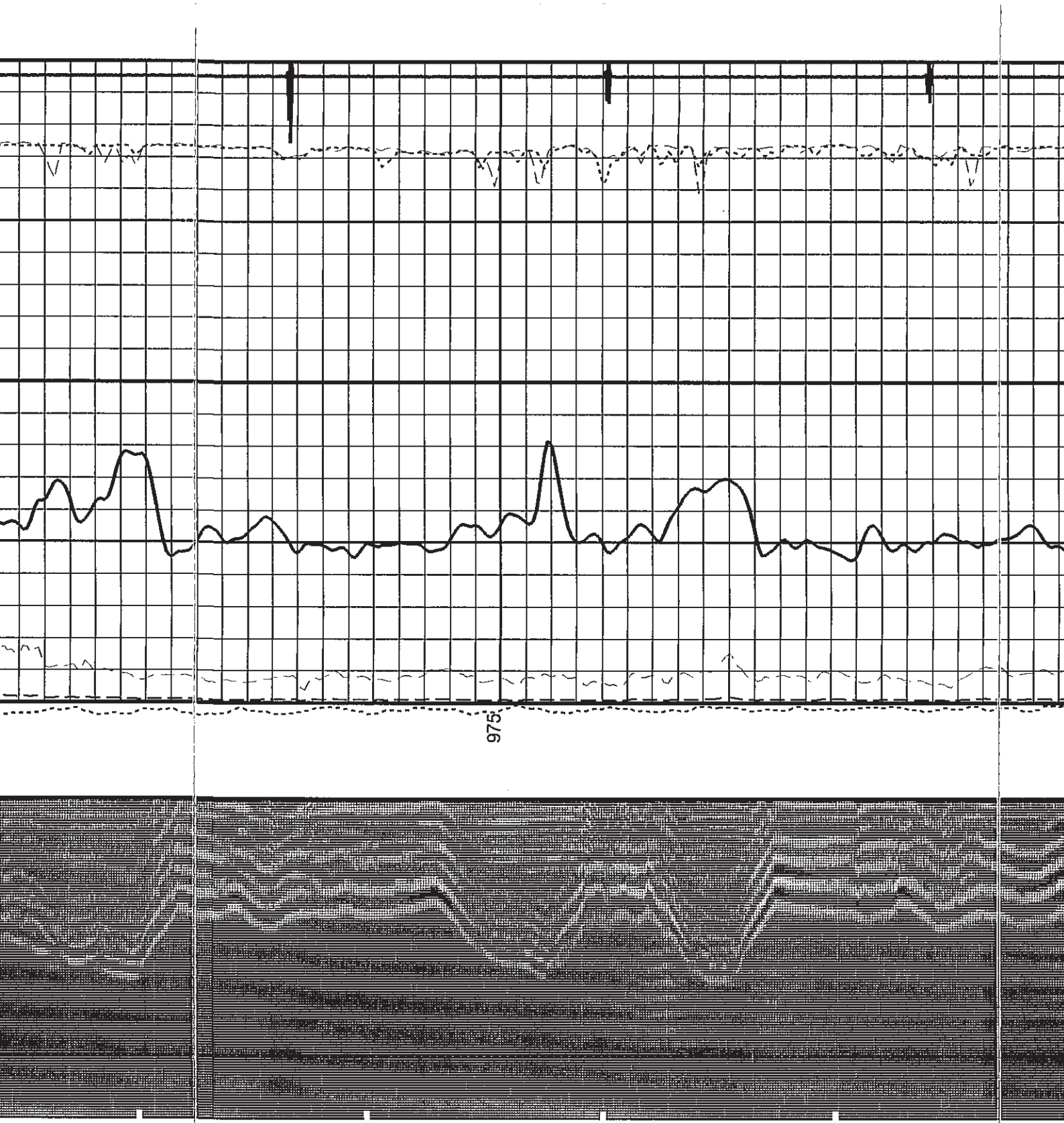




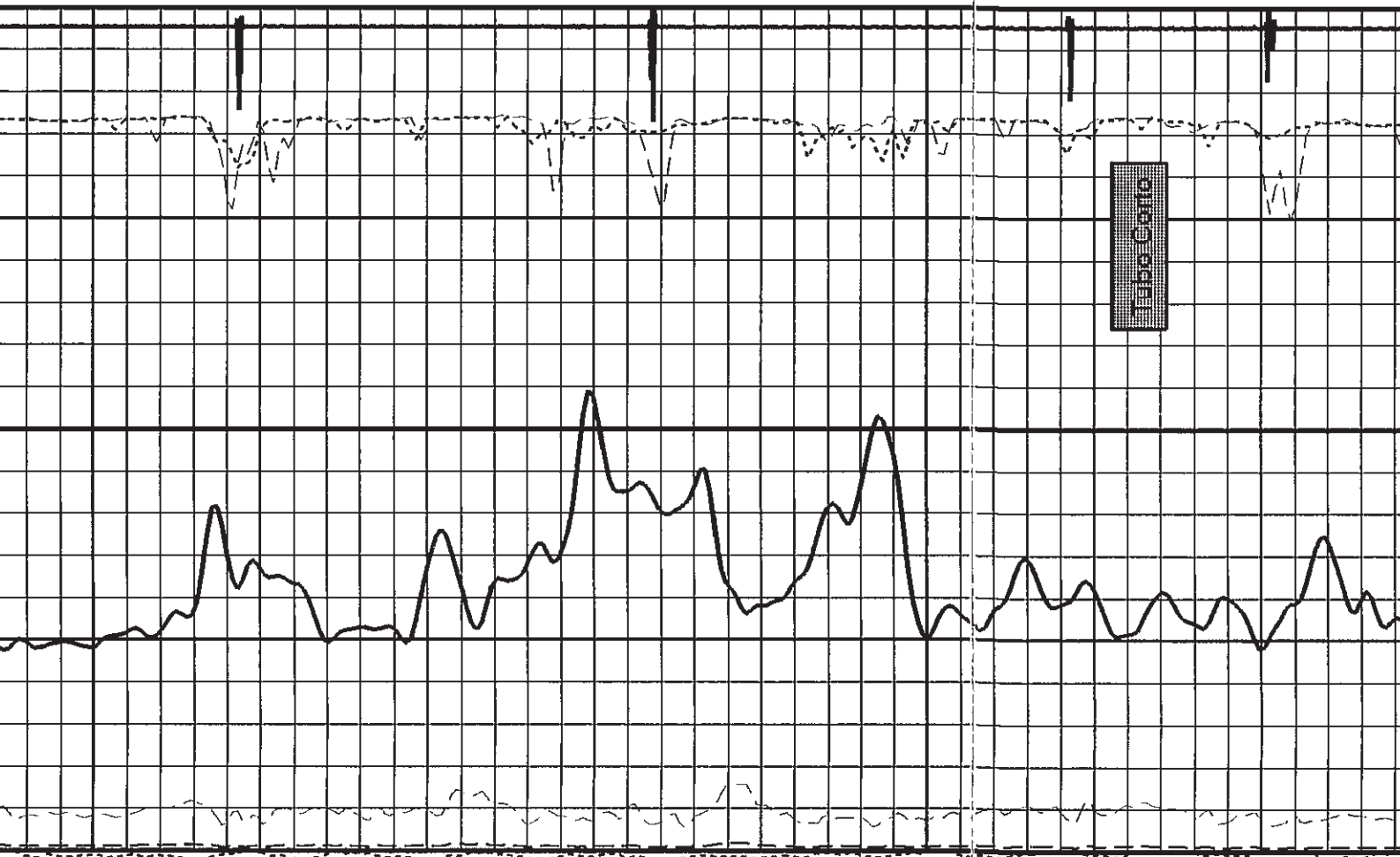
925 950

ENS





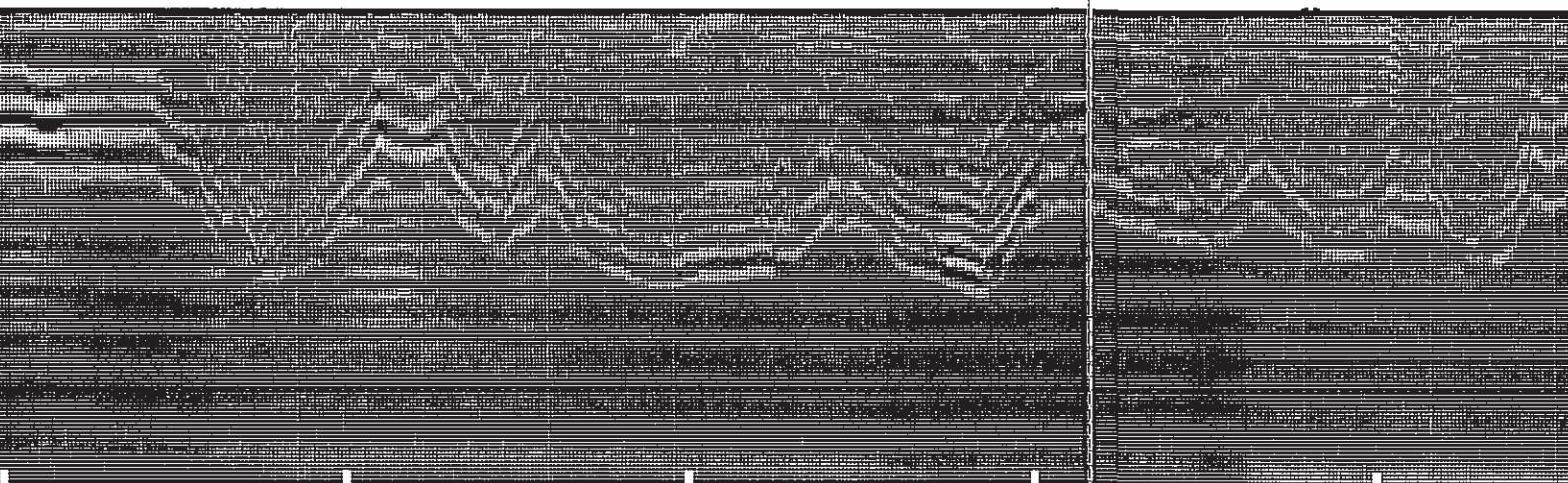
975

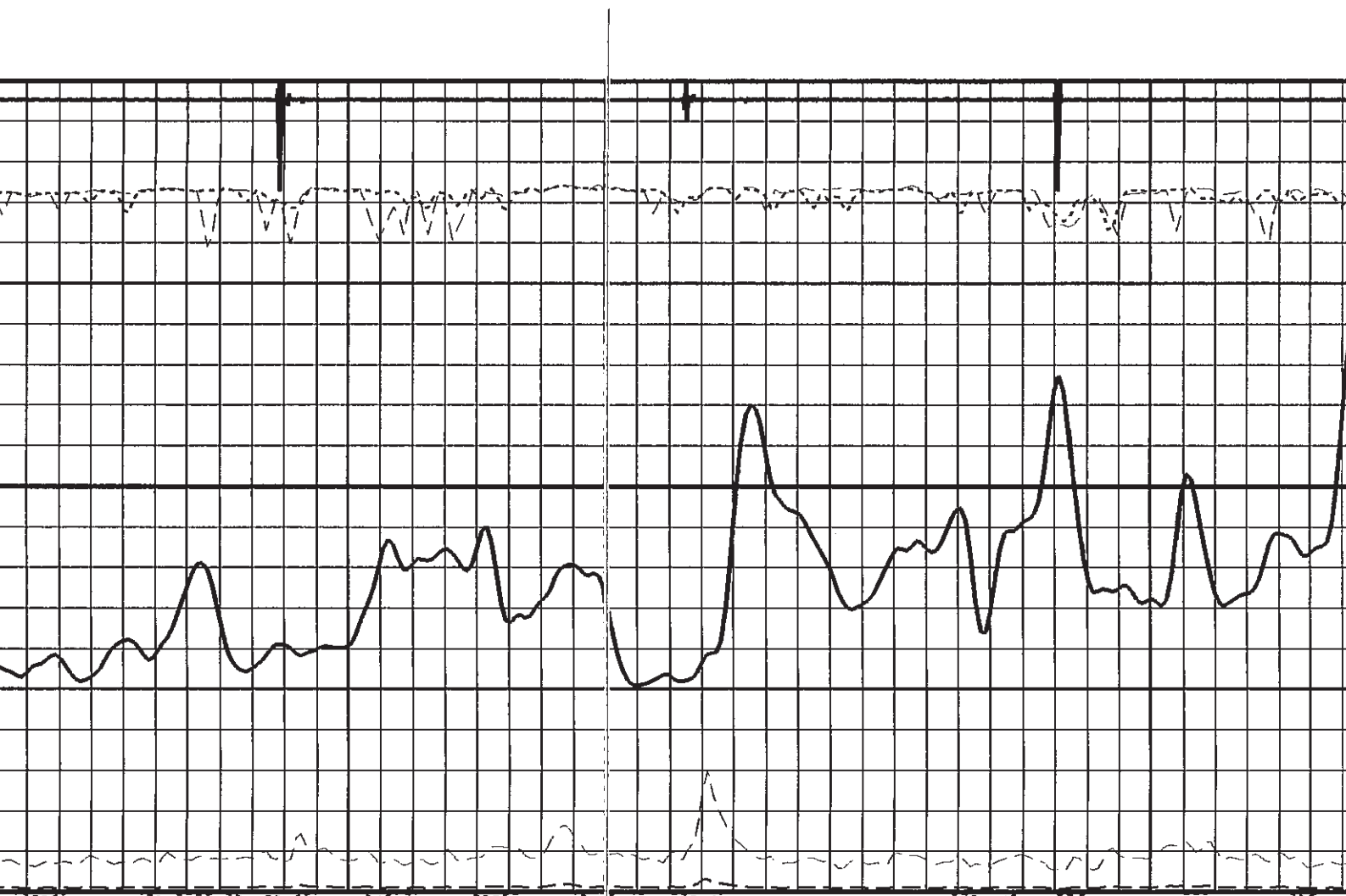


111100010

1000

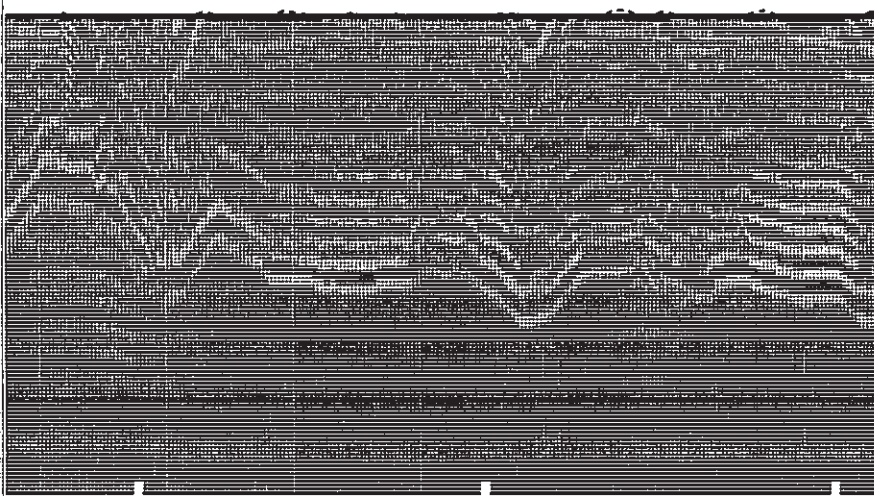
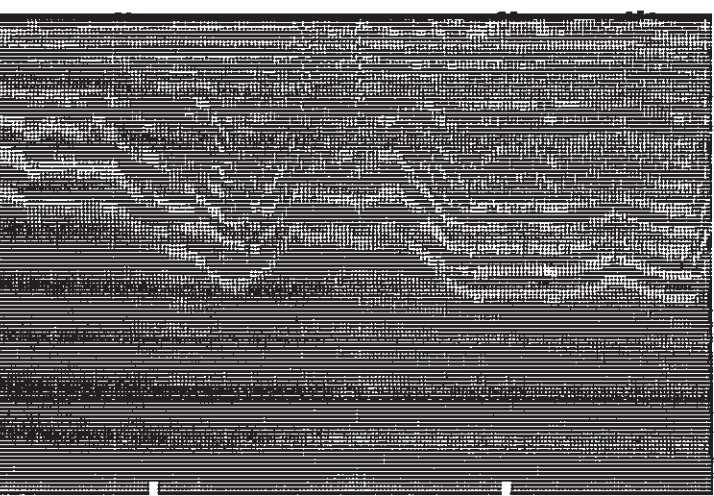
1025

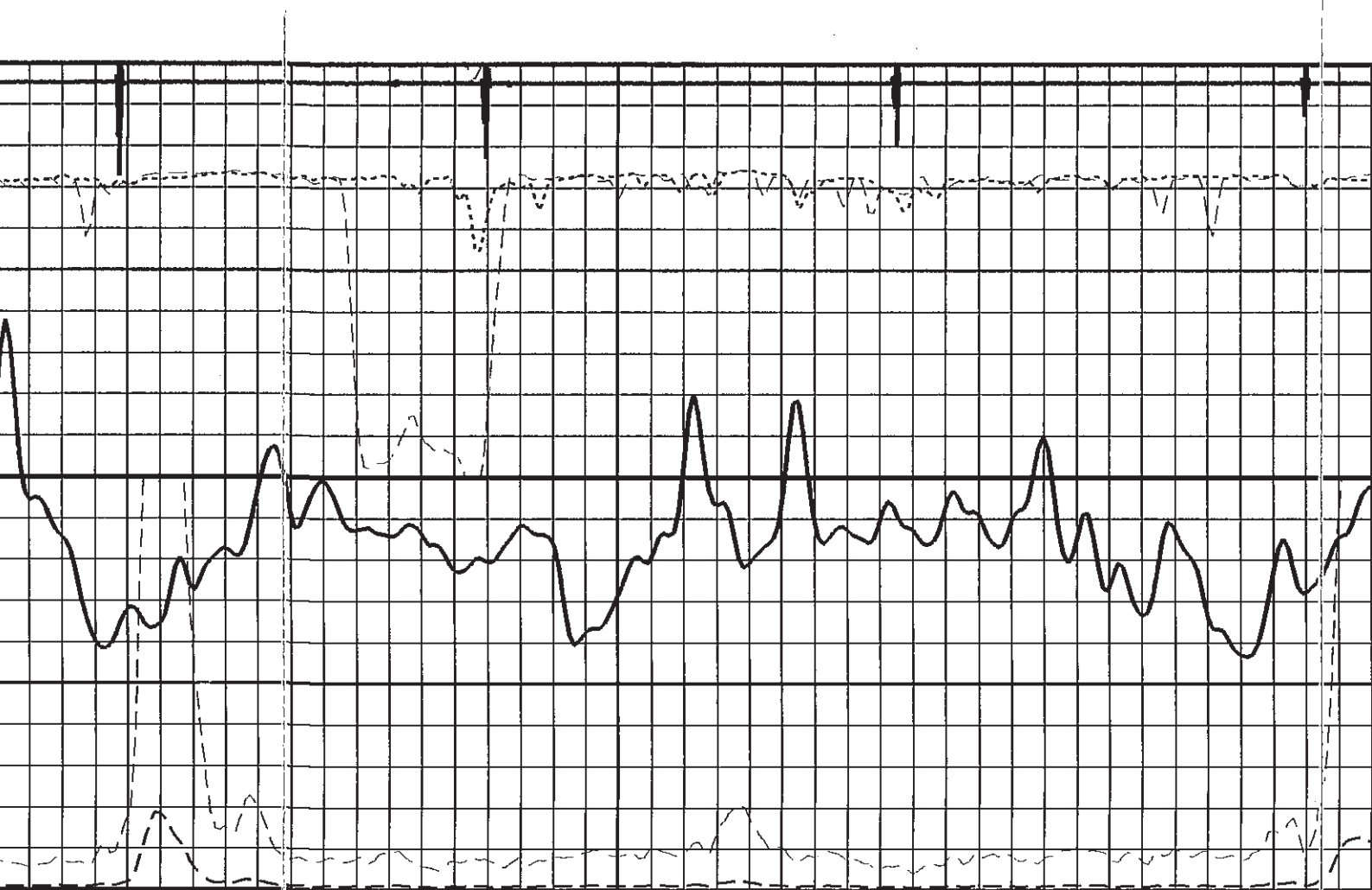




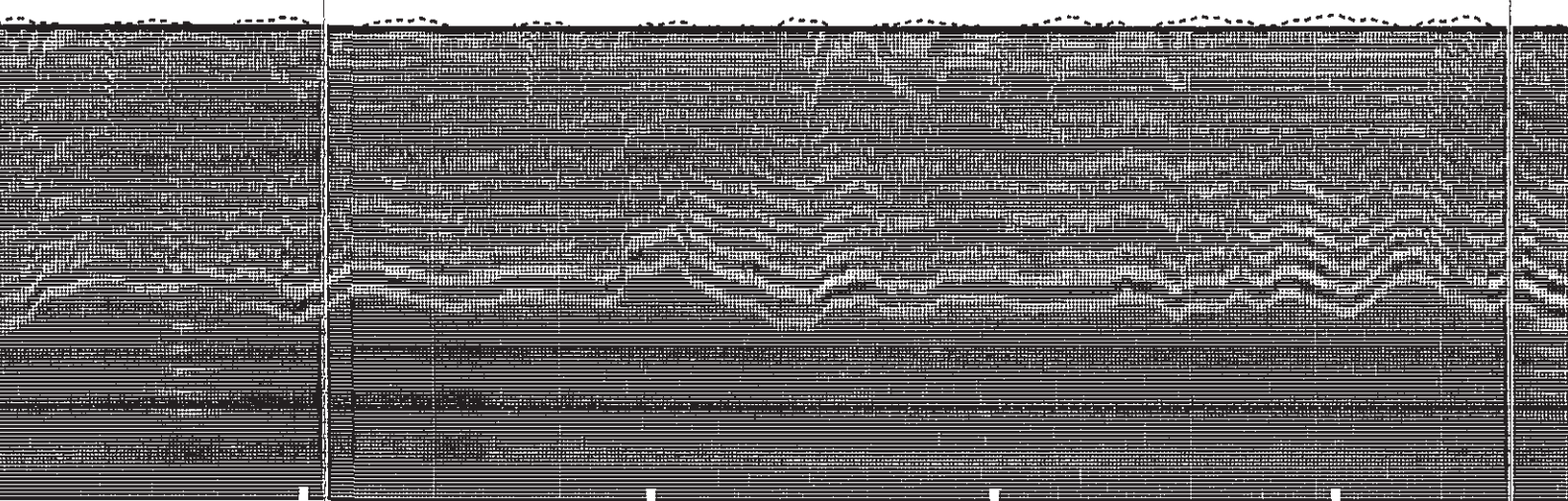
1050

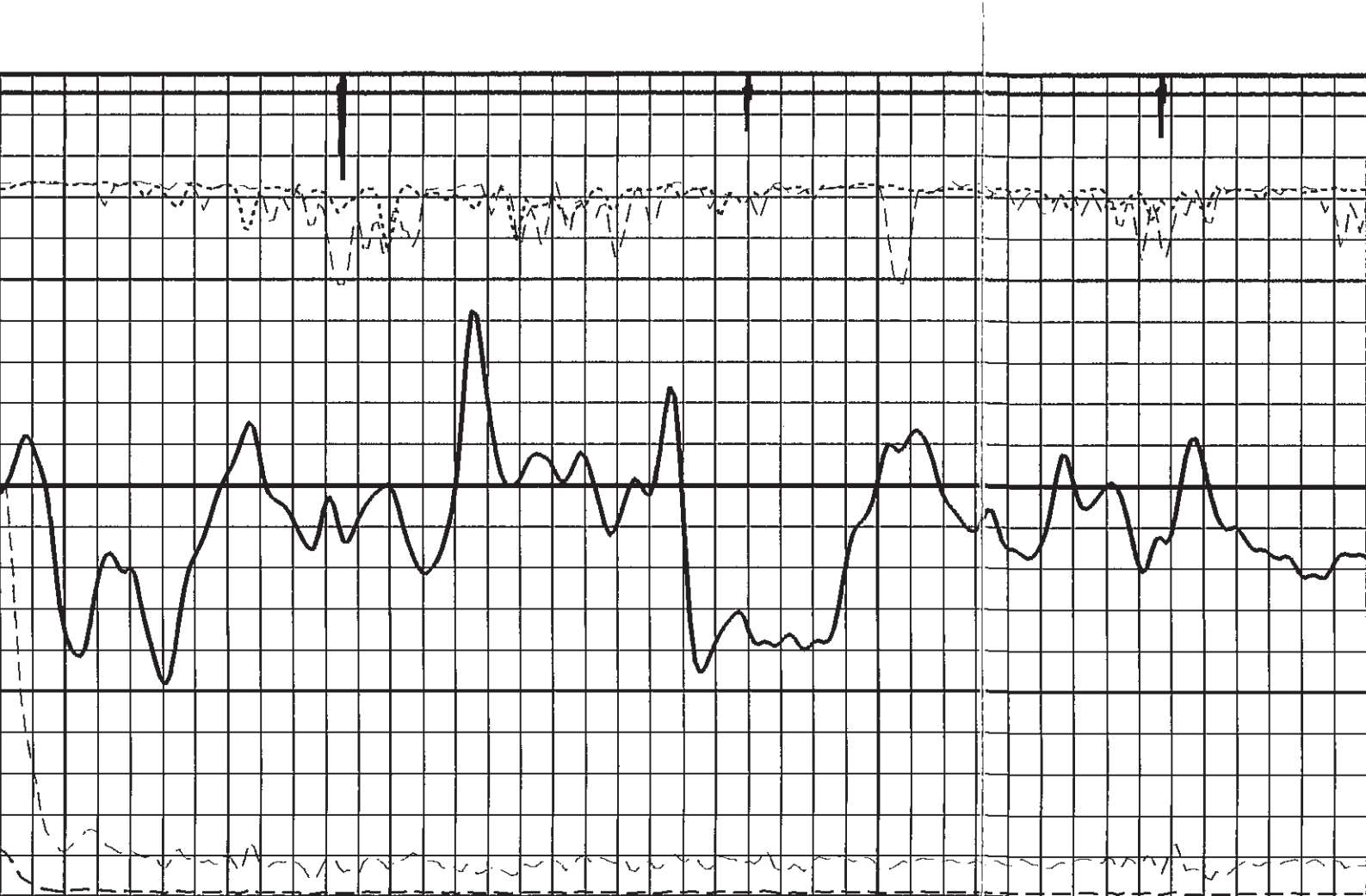
1075





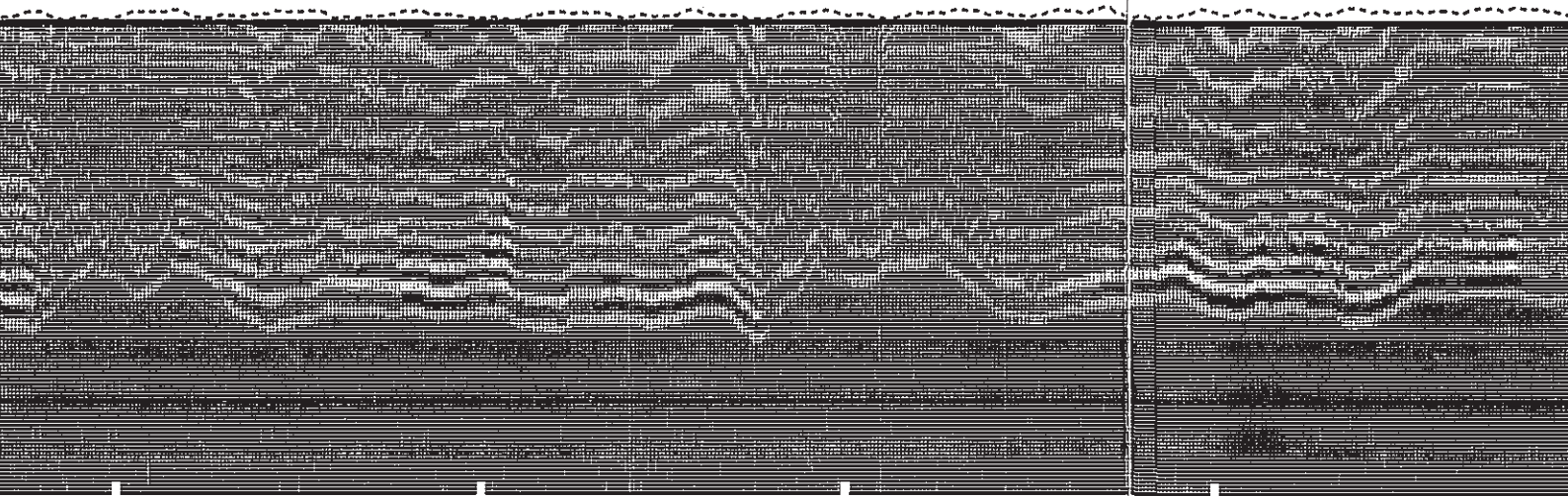
1100

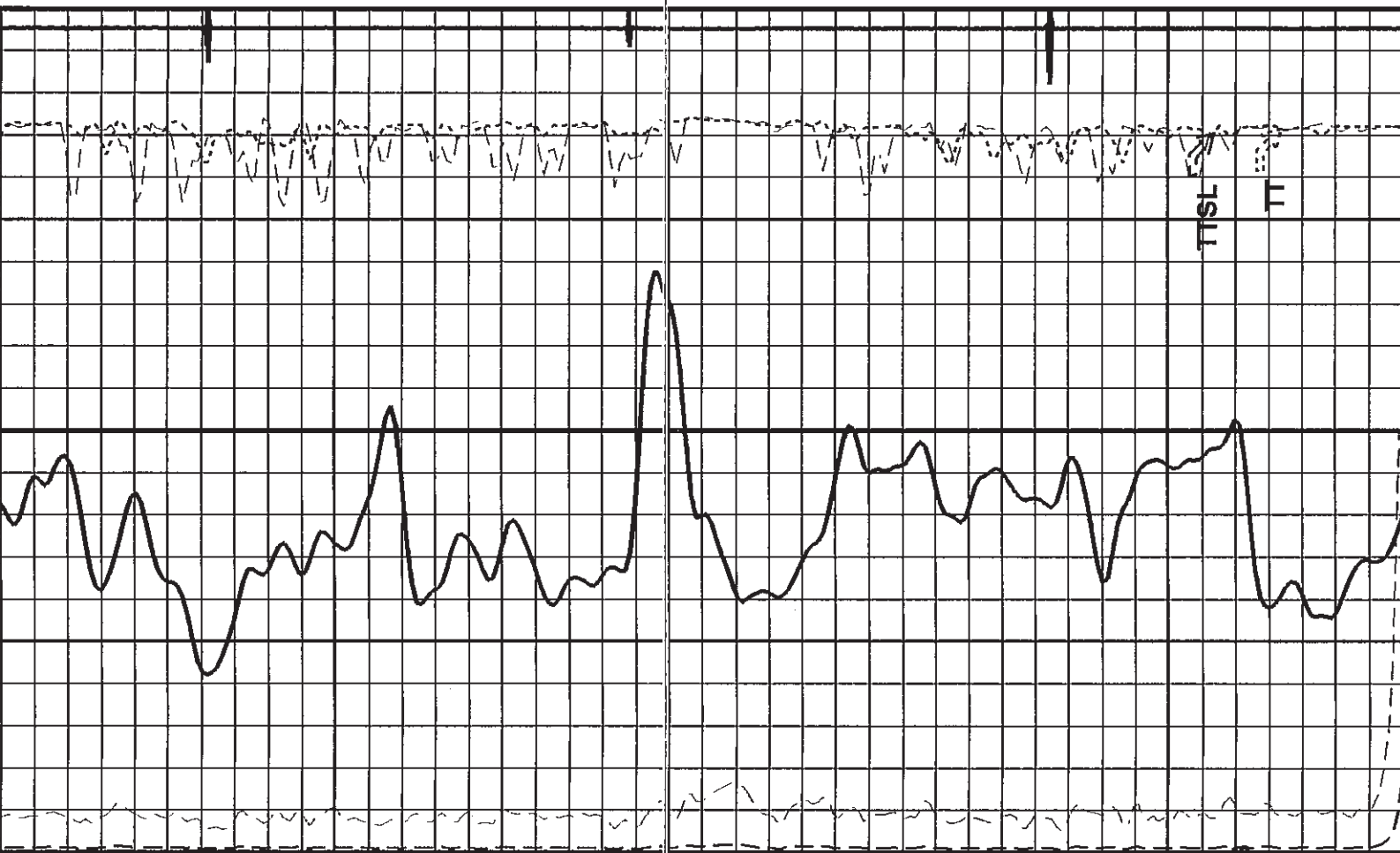




1125

1150

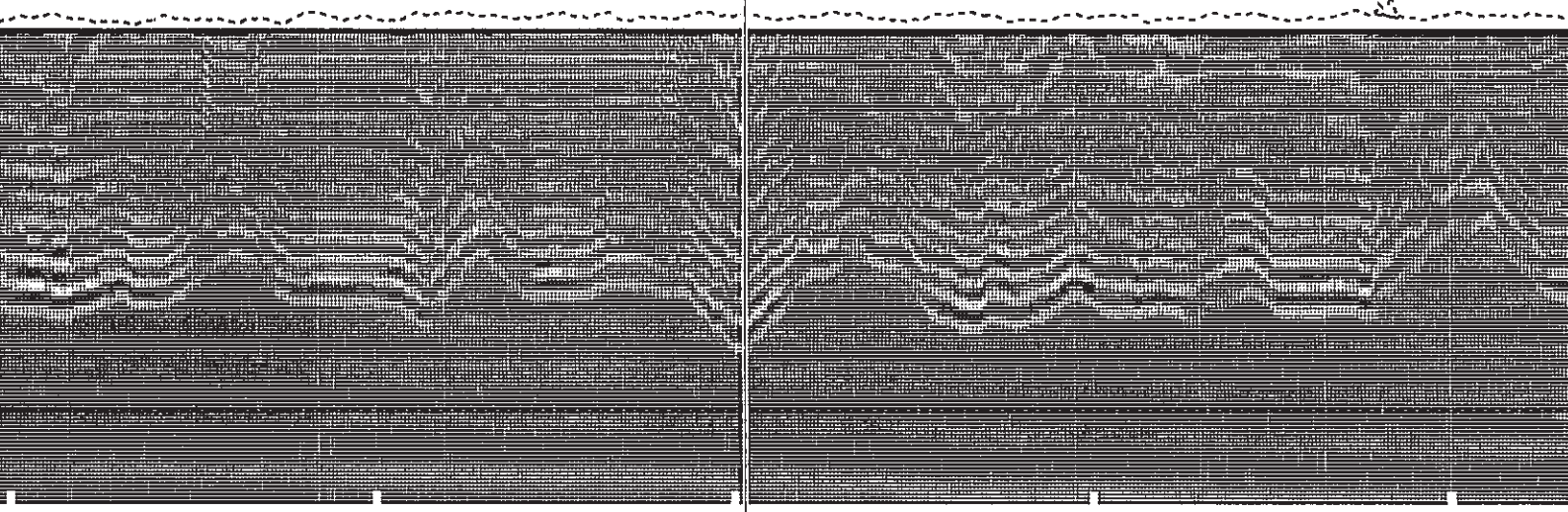


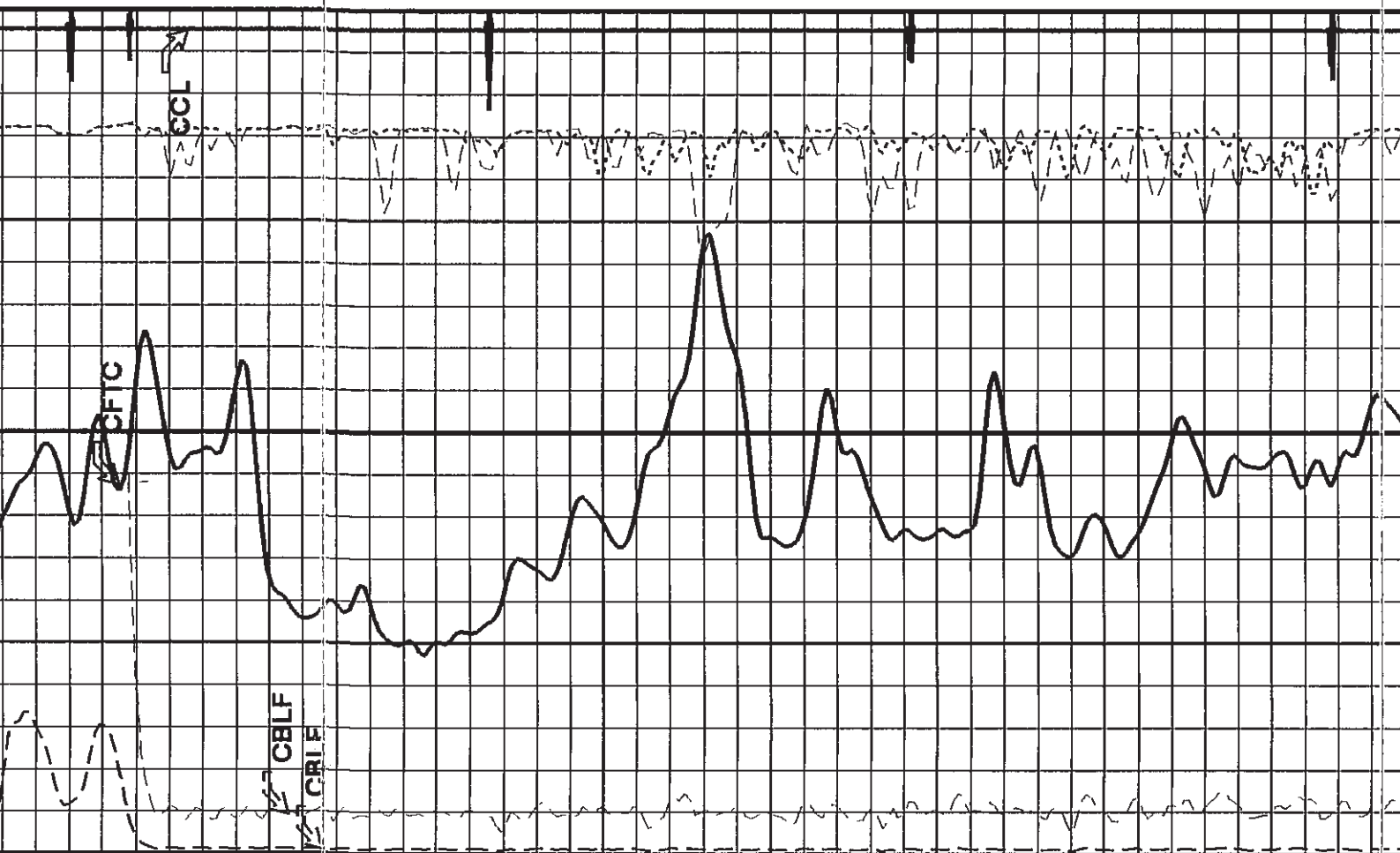


1175

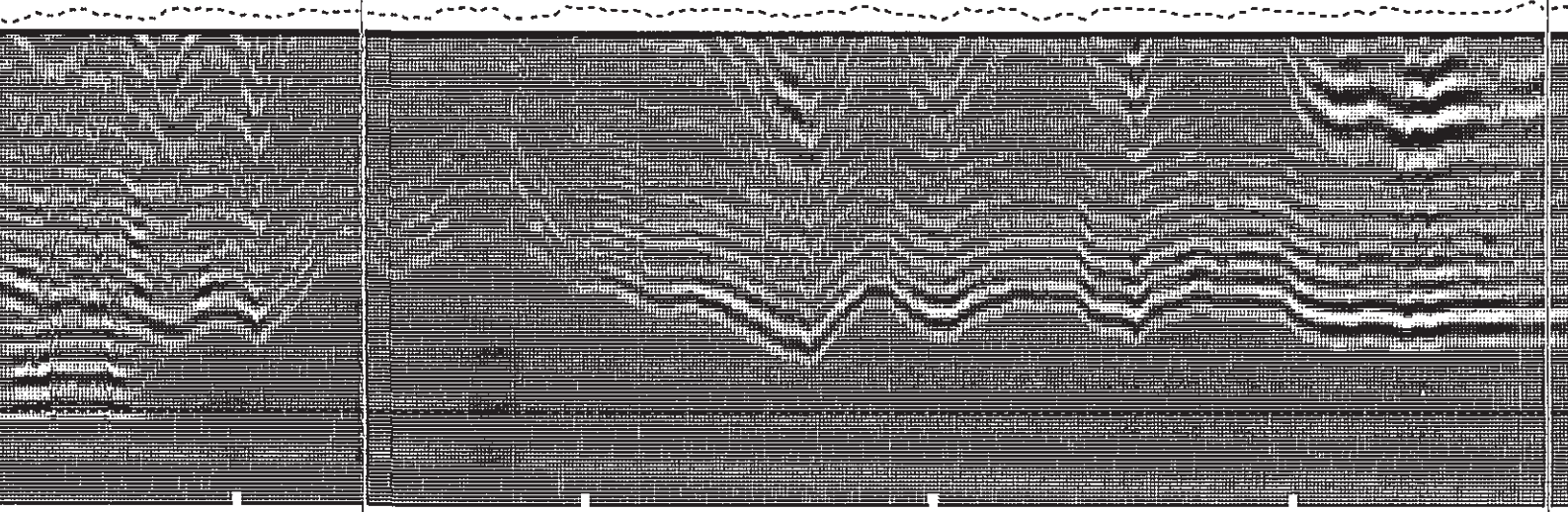
1200

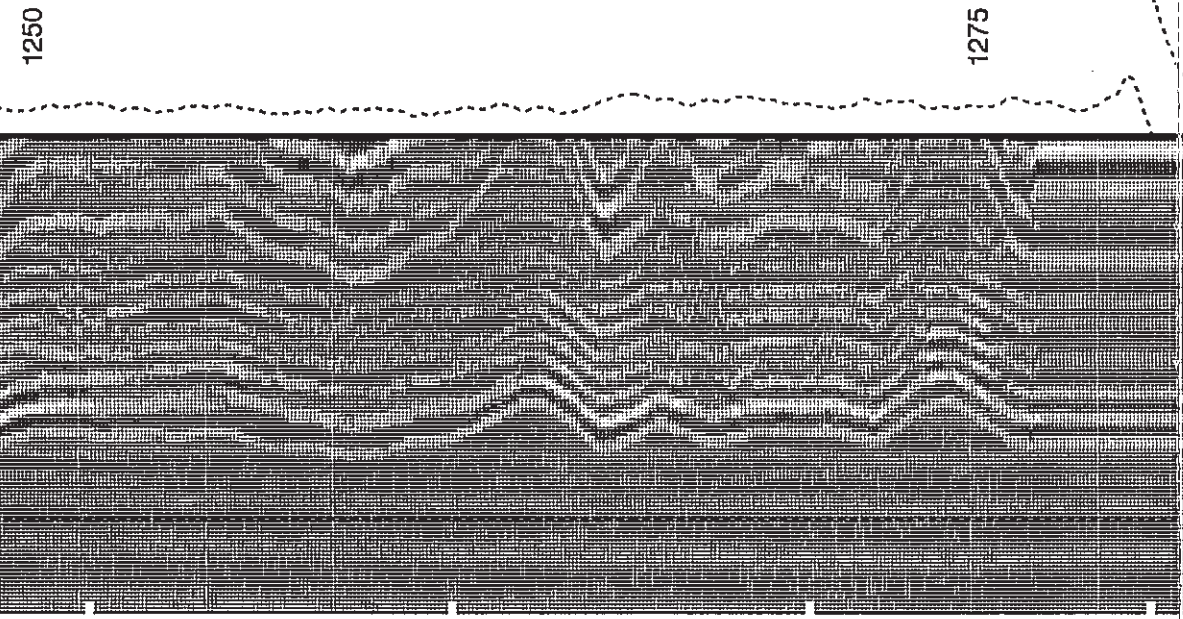
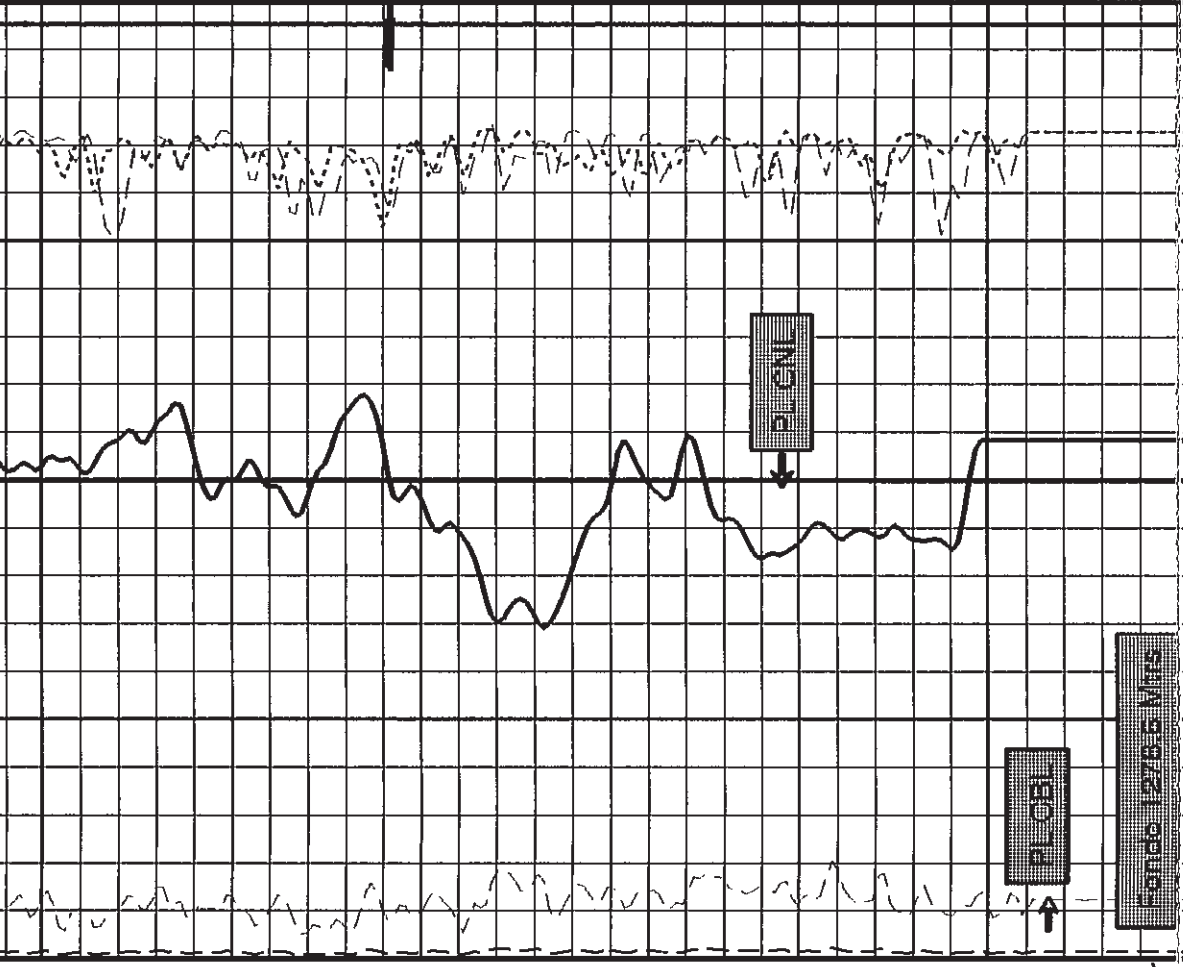
TENS





1225





Min	Amplitude	Max	Tension (TENS) (LBF)	Fluid Compensated CBL Amplitude (CBLF) (MV)	Casing Collar Locator (CCL) (---)	Far Thermal Counts (CFTC) (CPS)	Fluid Compensated CBL Amplitude (CBLF) (MV)	Transit Time (TT) (US)
200		1200.0	1000	0	1	0	0	200
				100		1500	-19	400

Transit Time (Sliding Gate) (TTSL) 200
 400 (US)

PIP SUMMARY

Time Mark Every 60 S
 Format: CBL_Fluid_Compensated Vertical Scale: 1:200 Graphics File Created: 24-May-2006 12:50

OP System Version: 14C0-302
 MCM

SDT-C	14C0-302	CNT-H	14C0-302
TCC-B	14C0-302	CAL-Y	14C0-302

Output DLIS Files

DEFAULT SONIC_CNL_007LUP FN:6 PRODUCER 24-May-2006 12:50



Company: YPF S.A. Well: YPF.Ch.LC-682

Output DLIS Files

DEFAULT SONIC_CNL_009LUP FN:8 PRODUCER 24-May-2006 13:51 825.6 M 713.8 M

OP System Version: 14C0-302
 MCM

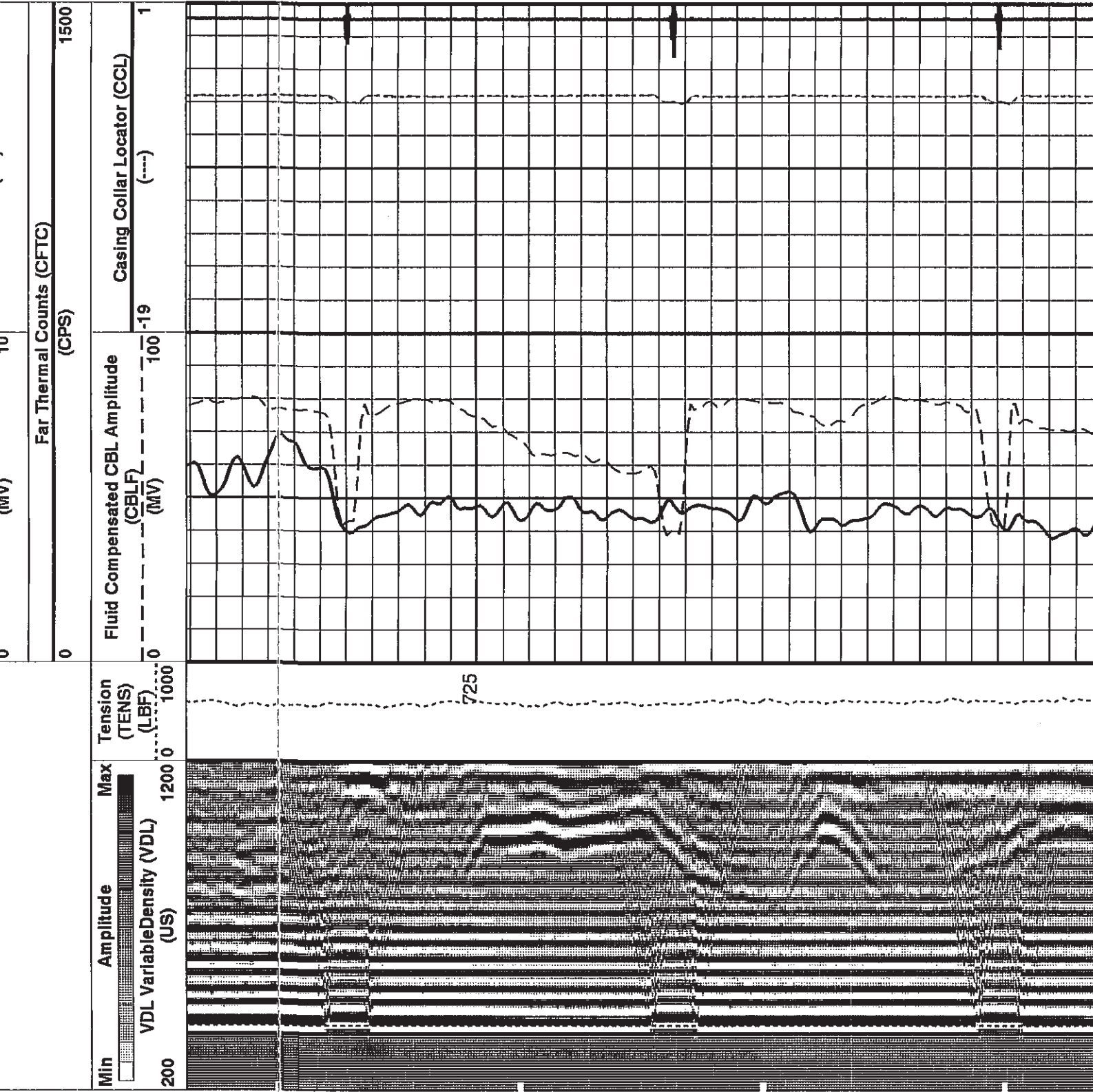
SDT-C	14C0-302	CNT-H	14C0-302
TCC-B	14C0-302	CAL-Y	14C0-302

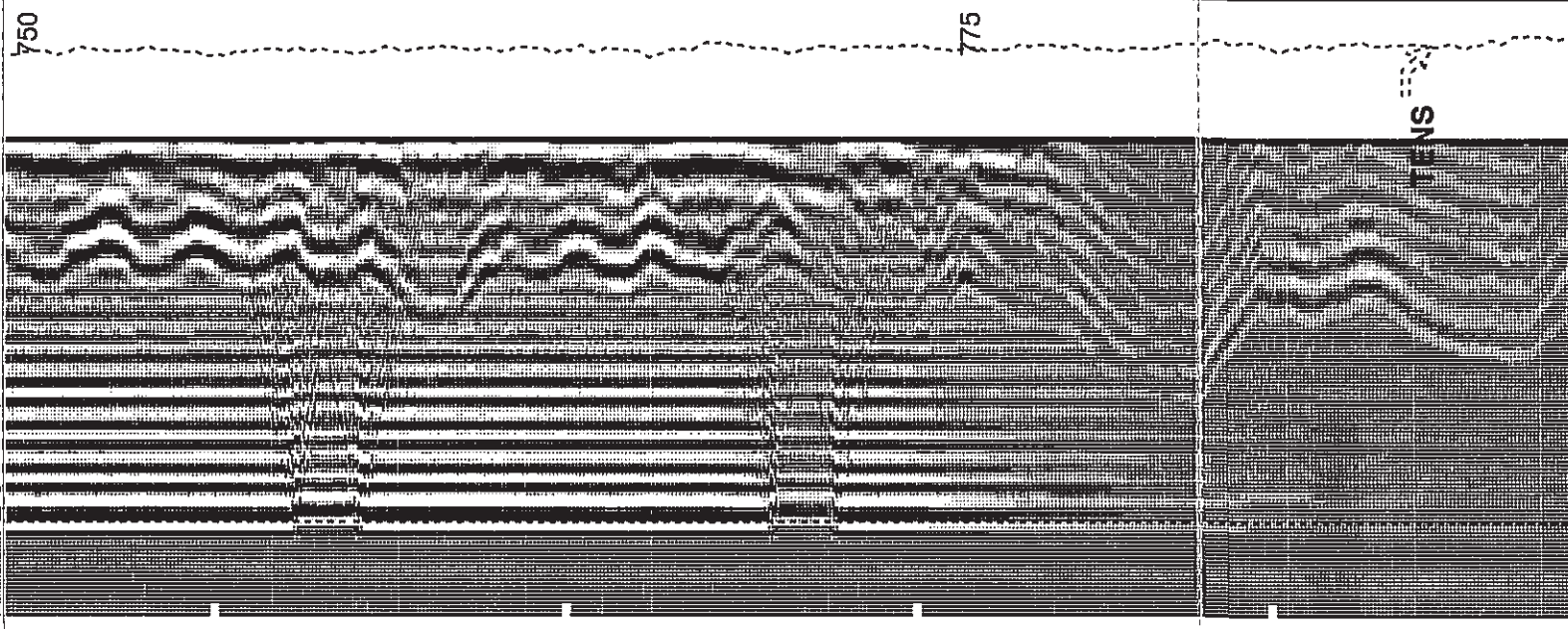
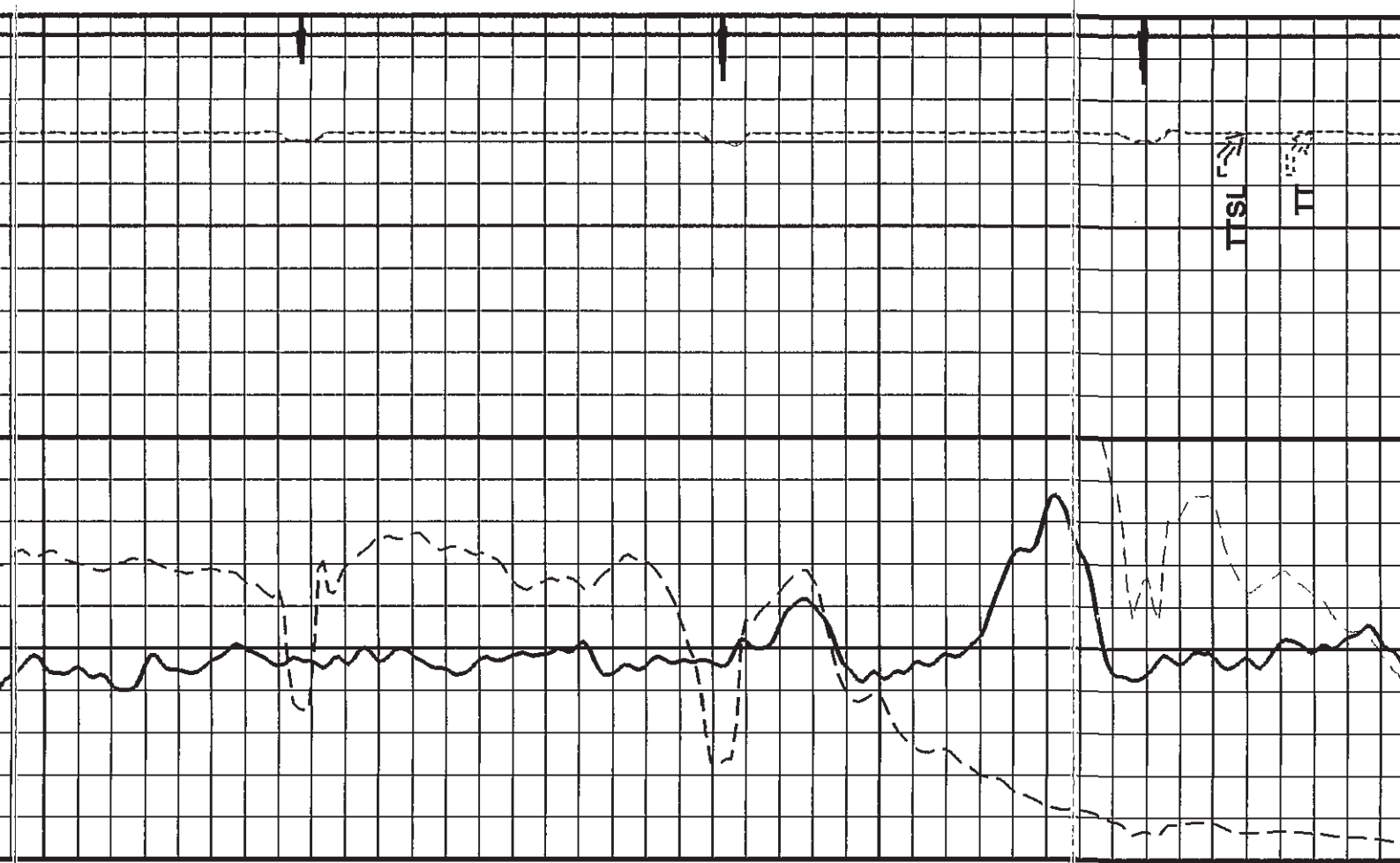
PIP SUMMARY

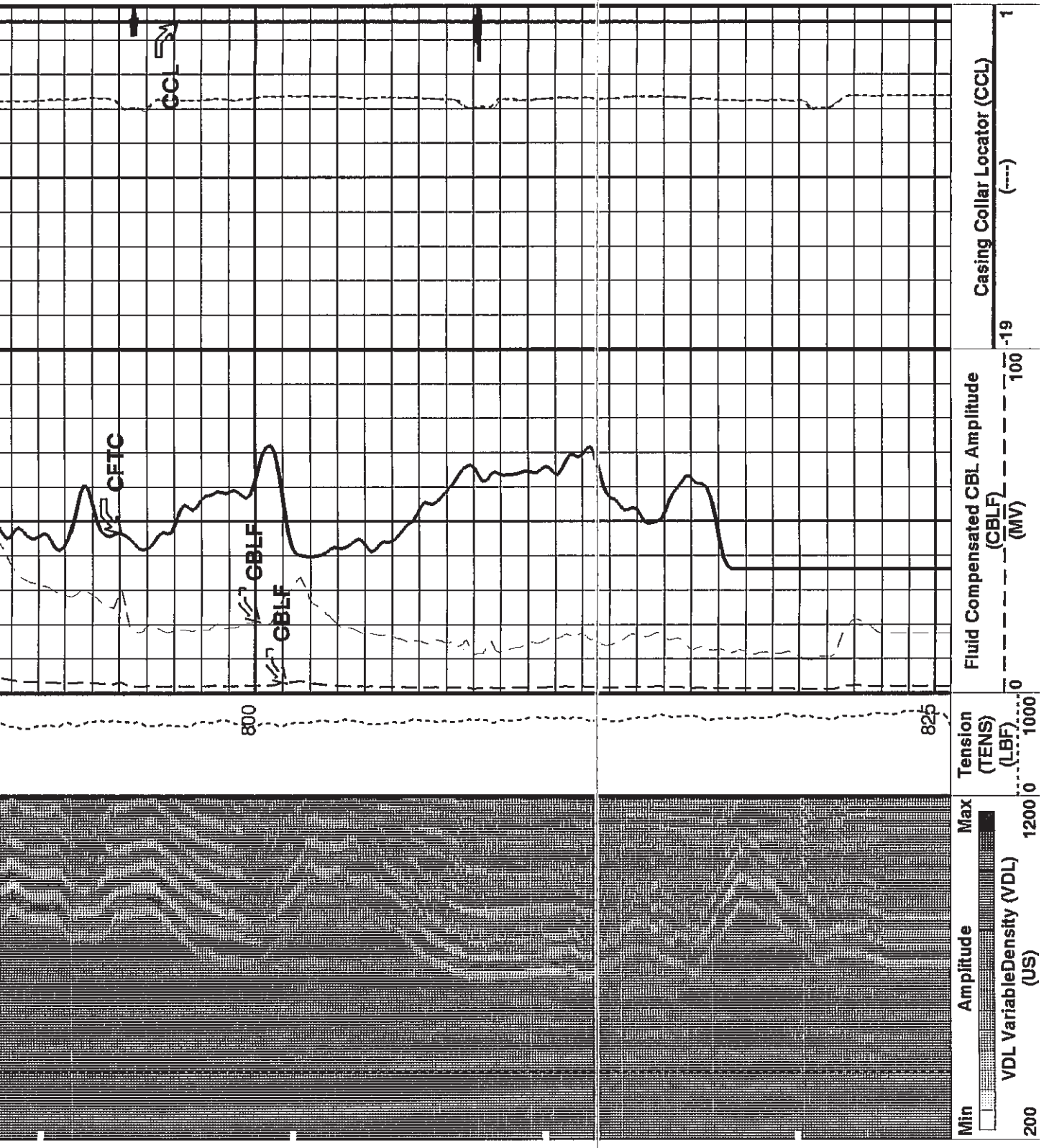
Time Mark Every 60 S

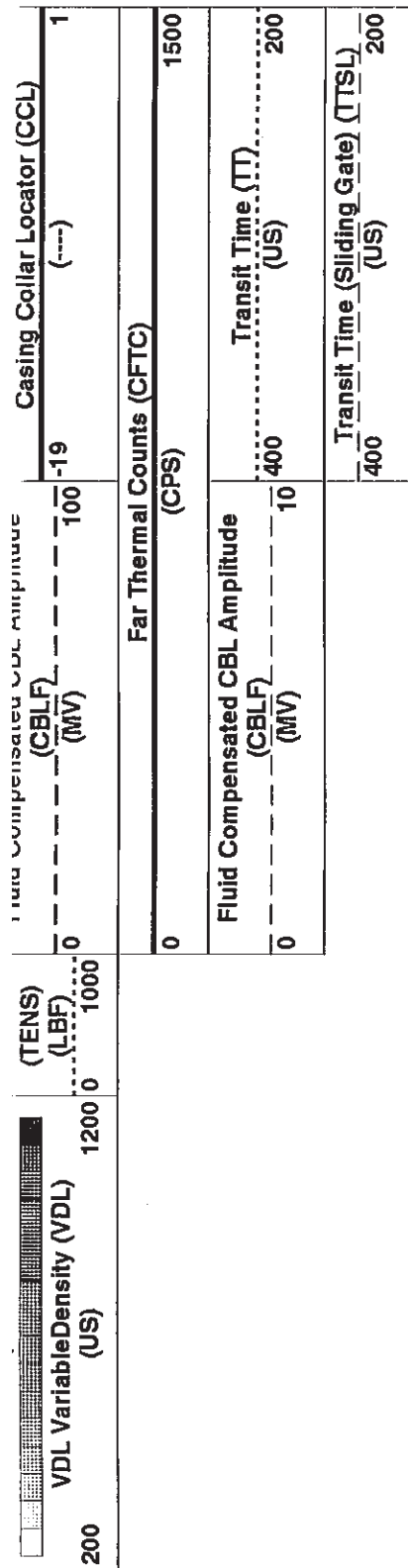
Transit Time (Sliding Gate) (TTSL) 200
 400 (US)

Fluid Compensated CBL Amplitude (CBLF) 200
 Transit Time (TT) 200
 400 (US)









Time Mark Every 60 S

PIP SUMMARY

Format: CBL_Fluid_Compensated Vertical Scale: 1:200 Graphics File Created: 24-May-2006 13:51

OP System Version: 14CO-302

SDT-C 14CO-302 CNT-H 14CO-302

TCC-B 14CO-302 CAL-Y 14CO-302

MCM

Output DLIS Files

DEFAULT SONIC_CNL_009LUP FN:8 PRODUCER 24-May-2006 13:51

Schlumberger

Analisis de Repetibilidad

MAXIS Field Log

Company: YPF S.A. Well: YPF.Ch.C-682

Input DLIS Files

DEFAULT SONIC_CNL_007LUP FN:6 PRODUCER 24-May-2006 12:50 1282.8 M 718.6 M

Output DLIS Files

DEFAULT SONIC_CNL_009LUP FN:8 PRODUCER 24-May-2006 13:51

OP System Version: 14C0-302

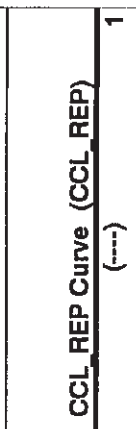
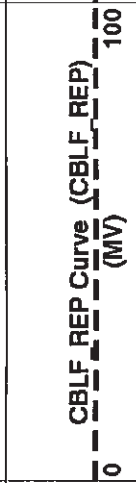
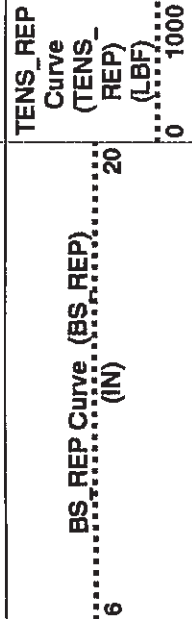
MCM

SDT-C 14C0-302
TCC-B 14C0-302

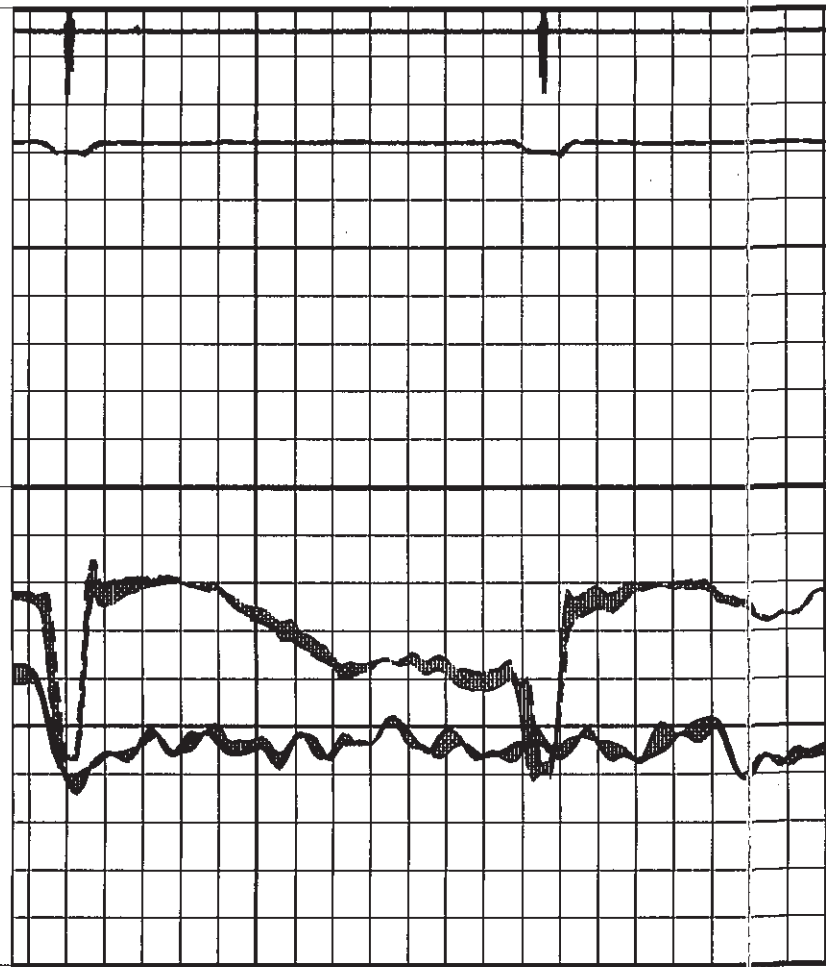
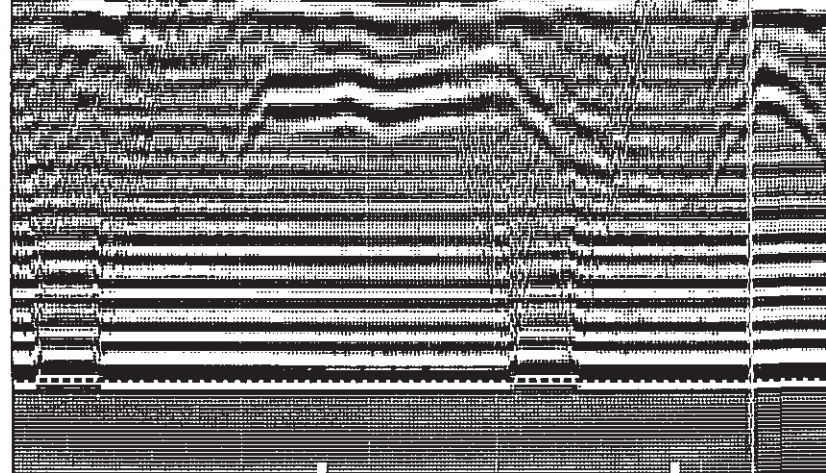
CNT-H 14C0-302
CAL-Y 14C0-302

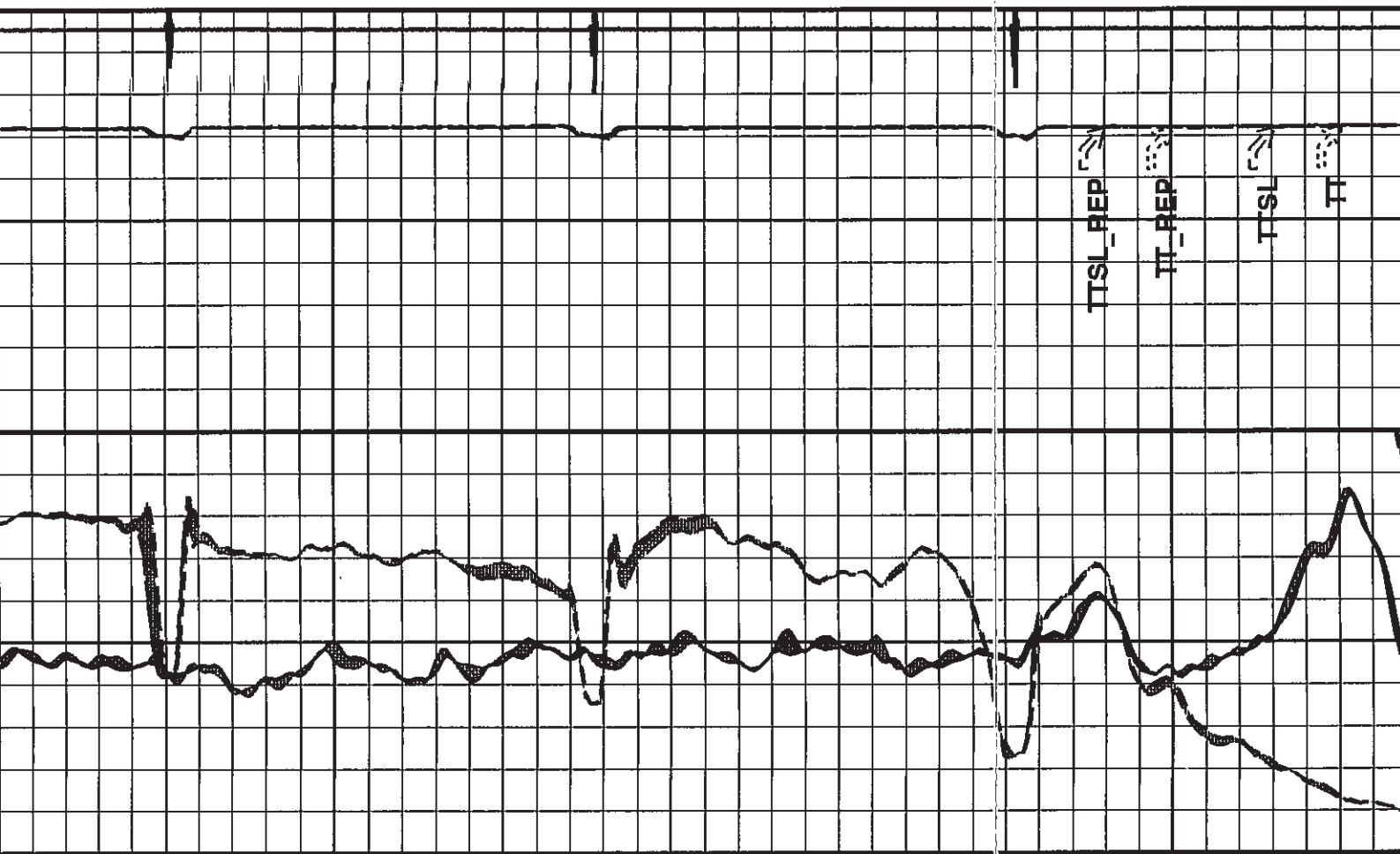
PIP SUMMARY

Time Mark Every 60 S



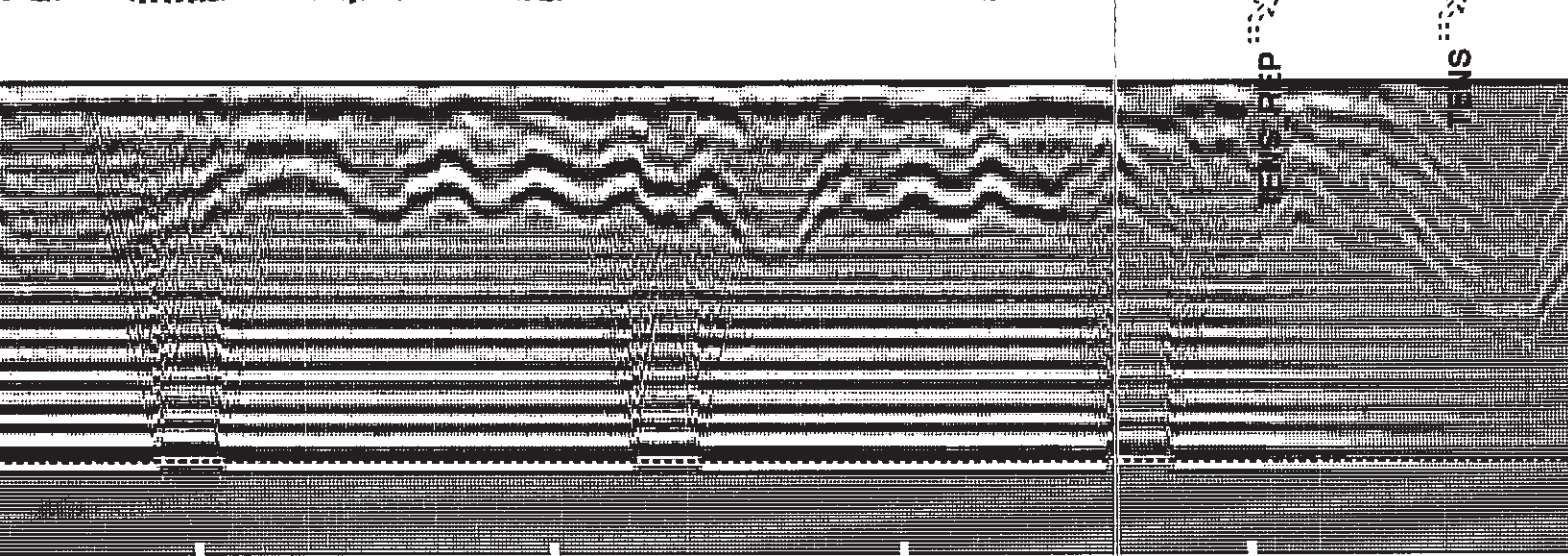
TENS_REP Curve (TENS REP) (LBF)



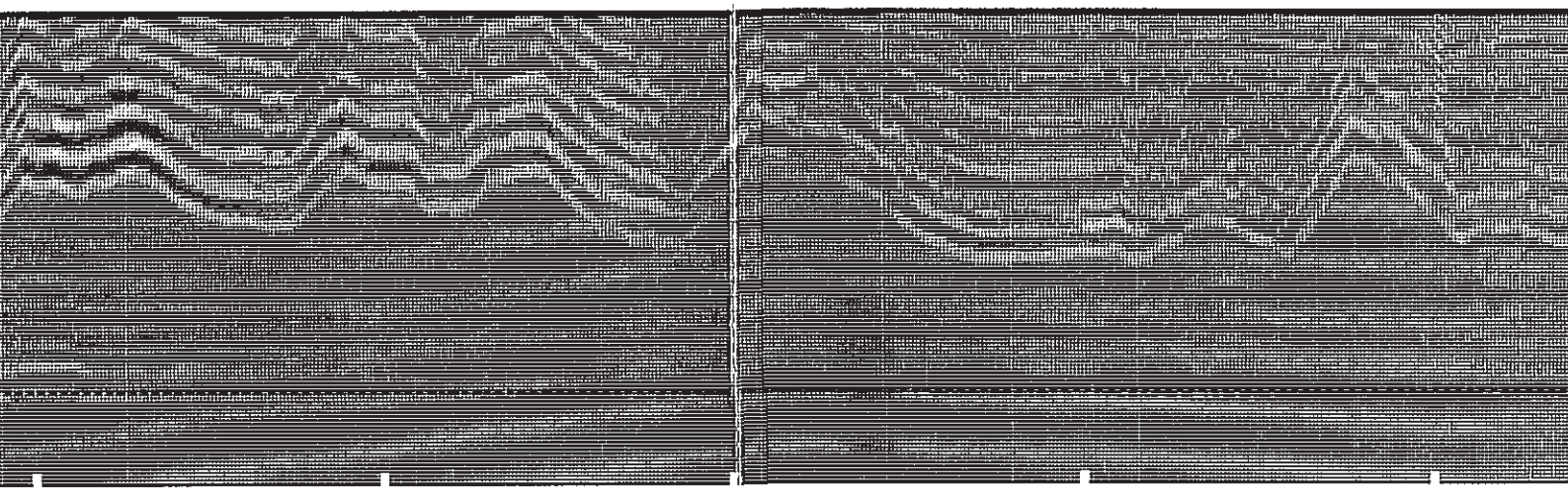
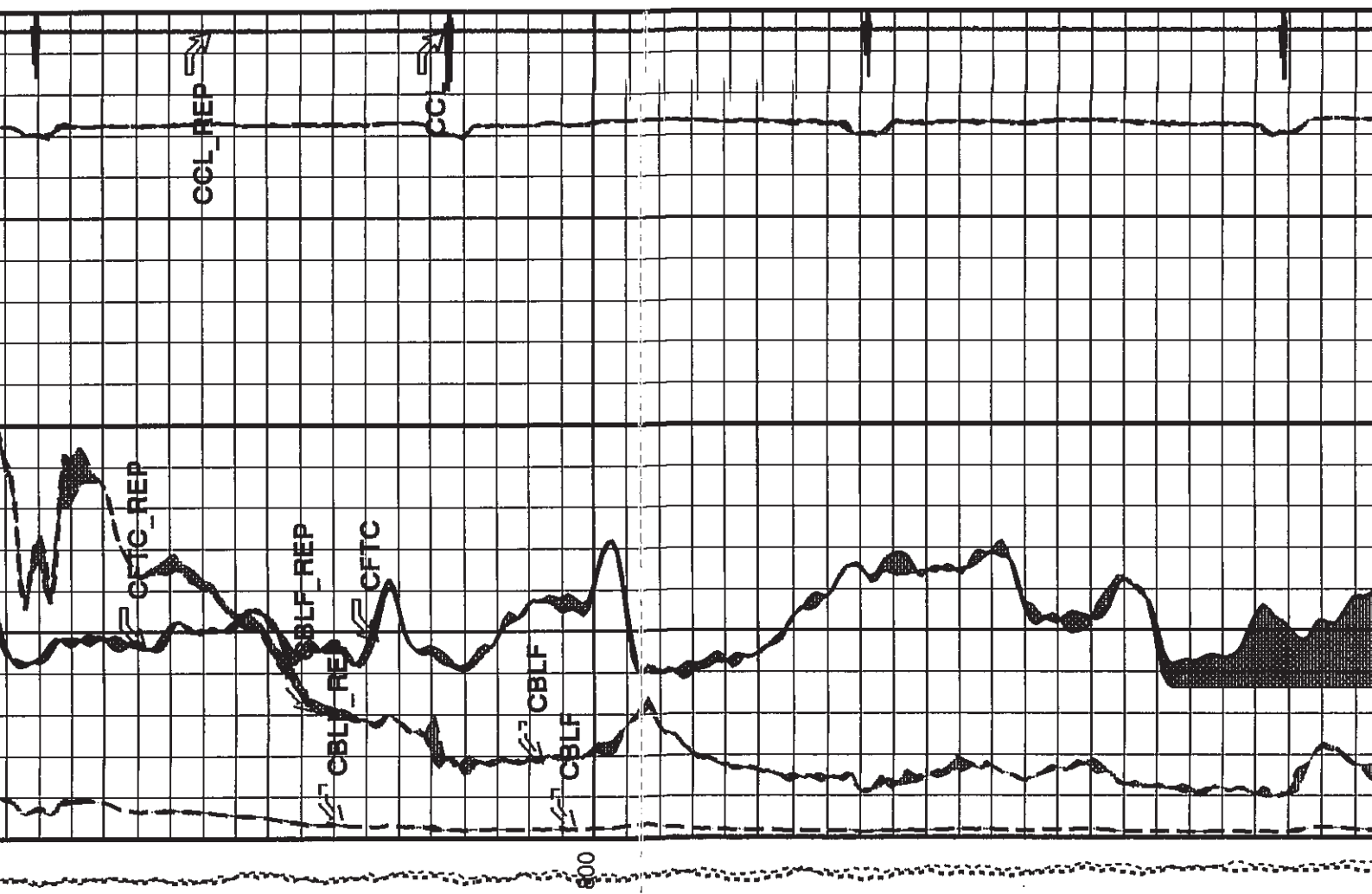


TTSL_REP
TT_REP
TTSL
TT

750 75



TTSL_REP
TT_REP
TTSL
TT





82.6

TENS_REP Curve (TENS_REP) (LBF) 0 1000

BS REP Curve (BS REP) (IN) 6 20



VDL Variable Density (VDL) (US) 200 1200

CBLF REP Curve (CBLF REP) (MV) 100 -19

CCL REP Curve (CCL REP) (----) 1

CBLF2 REP Curve (CBLF2 REP) (MV) 10 400

TT REP Curve (TT REP) (US) 200

CFTC REP Curve (CFTC REP) (CPS) 0 1500

TTSL REP Curve (TTSL REP) (US) 400 200

PIP SUMMARY

Time Mark Every 60 S
 Format: CBL_Fluid_Compensated_REP Vertical Scale: 1:200 Graphics File Created: 24-May-2006 13:51

OP System Version: 14C0-302 MCM

SDT-C 14C0-302 CNT-H 14C0-302
 TCC-B 14C0-302 CAL-Y 14C0-302

Input DLIS Files

DEFAULT SONIC_CNL_007LUP FN:6 PRODUCER 24-May-2006 12:50 1282.8 M 718.6 M

Output DLIS Files

DEFAULT SONIC_CNL_009LUP FN:8 PRODUCER 24-May-2006 13:51

Schlumberger

Tramo Sin Correccion de Profundidad

Company: Well:

Output DLIS Files

DEFAULT SONIC_CNL_003LUP FN:2 PRODUCER 24-May-2006 12:39 1281.1 M 1218.0 M


OP System Version: 14CO-302 MCM

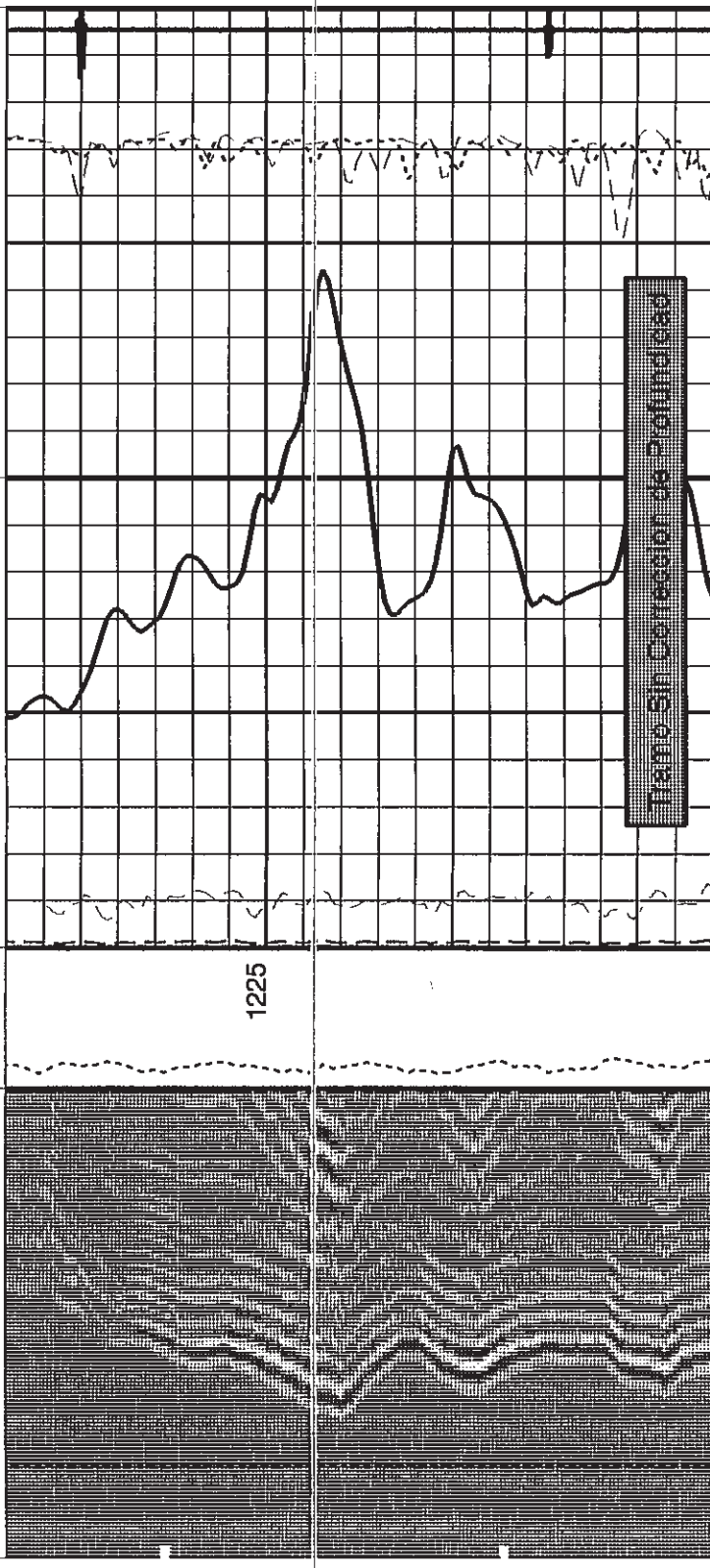
SDT-C 14CO-302 CNT-H 14CO-302
TCC-B 14CO-302 CAL-Y 14CO-302

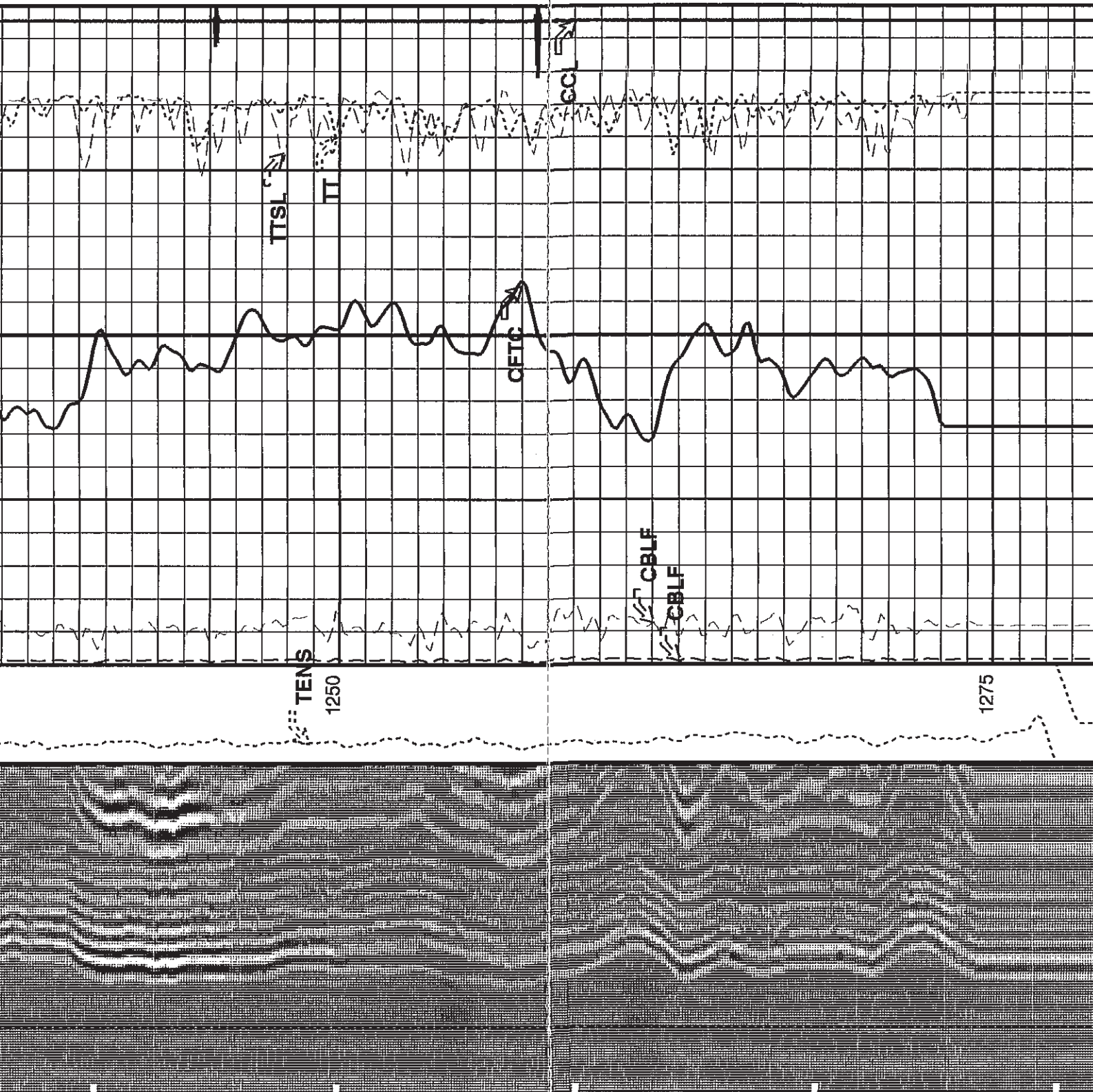
PIP SUMMARY

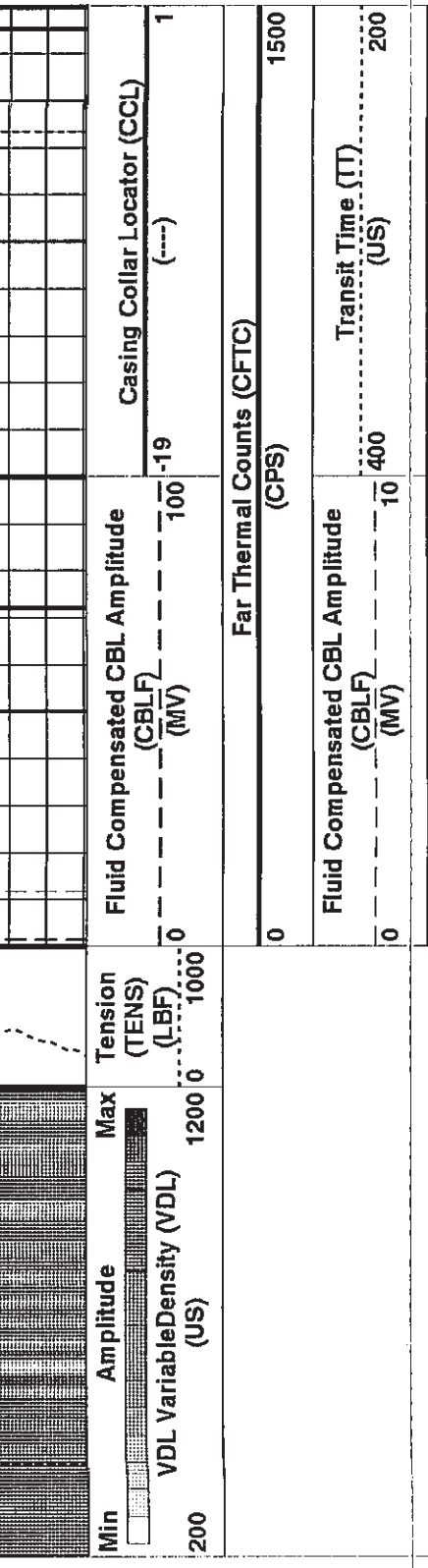
Time Mark Every 60 S

Transit Time (Sliding Gate) (TSL)		400	200
Fluid Compensated CBL Amplitude (CBLF) (MV)		10	200
Transit Time (TT) (US)		400	200
Far Thermal Counts (CFIC) (CPS)		0	1500

Min	Amplitude	Max	Tension (TENS) (LBF)	Fluid Compensated CBL Amplitude (CBLF) (MV)	Casing Collar Locator (CCL) (---)
200		1200	0	0	1
	VDL Variable Density (VDL) (US)	1200	1000	100	-19







Time Mark Every 60 S
 Format: CBL_Fluid_Compensated Vertical Scale: 1:200 Graphics File Created: 24-May-2006 12:39

PIP SUMMARY

OP System Version: 14C0-302
 MCM

SDT-C	14C0-302	CNT-H	14C0-302
TCC-B	14C0-302	CAL-Y	14C0-302

Output DLIS Files

DEFAULT	SONIC_CNL_003LUP	FN:2	PRODUCER	24-May-2006 12:39
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Analisis de Repetibilidad en Tramo Sin Correccion de Profundidad

MAXIS Field Log

Company: _____ Well: _____

Input DLIS Files

DEFAULT	SONIC_CNL_006PUP	FN:5	PRODUCER	24-May-2006 12:48	1282.6 M	1220.6 M
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Output DLIS Files

DEFAULT SONIC_CNL_007LUP FN:6 PRODUCER 24-May-2006 12:50

OP System Version: 14C0-302

SDT-C 14C0-302
 TCC-B 14C0-302
 MCM
 CNT-H 14C0-302
 CAL-Y 14C0-302

PIP SUMMARY

Time Mark Every 60 S

TTSL REP Curve (TTSL REP) (US) 200
 400

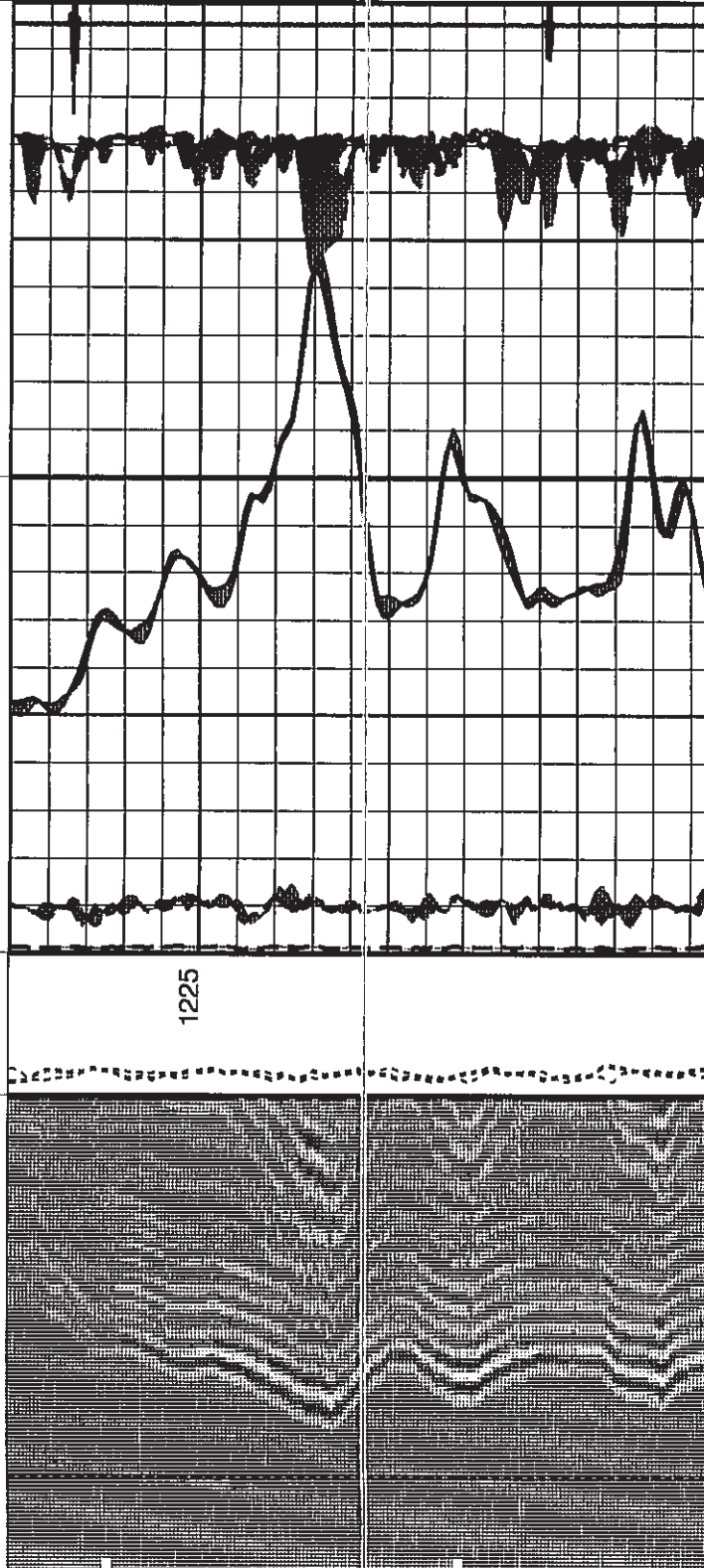
CFTC REP Curve (CFTC REP) (CPS) 1500
 0

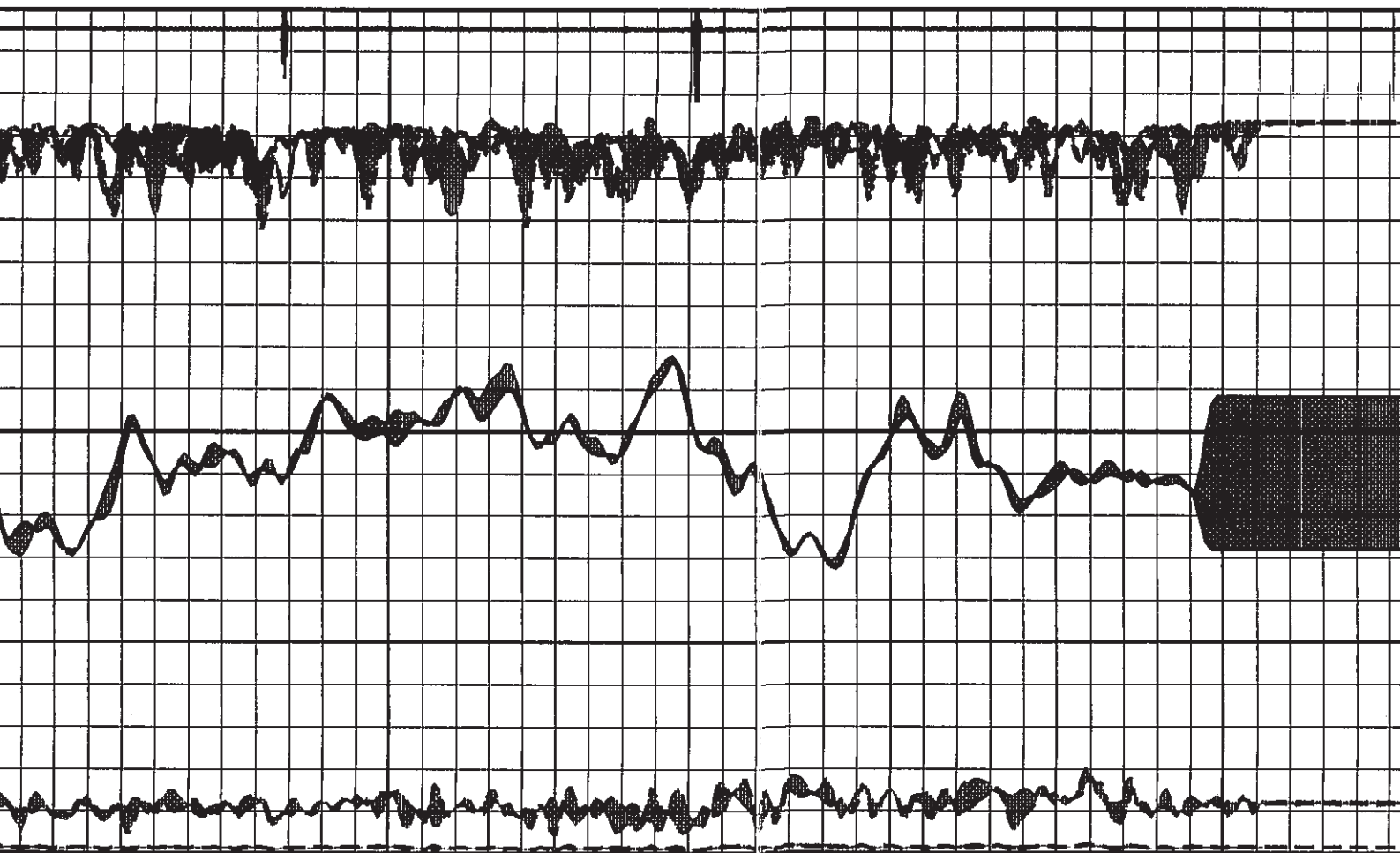


CBLF2 REP Curve (CBLF REP) (MV) 10 400
 TT REP Curve (TT REP) (US) 200
 0

TENS_REP Curve (TENS_REP) (LBF) 1000
 BS REP Curve (BS REP) (IN) 20
 6

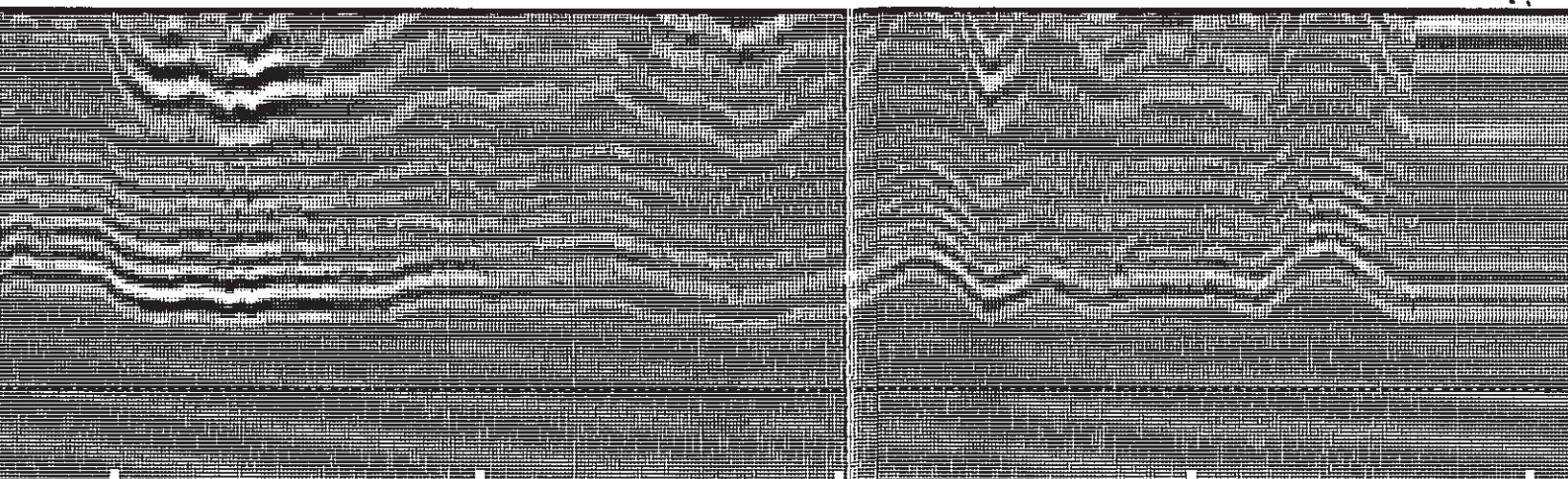
CBLF REP Curve (CBLF REP) (MV) 100 -19
 CCL REP Curve (CCL REP) (----) 1
 0

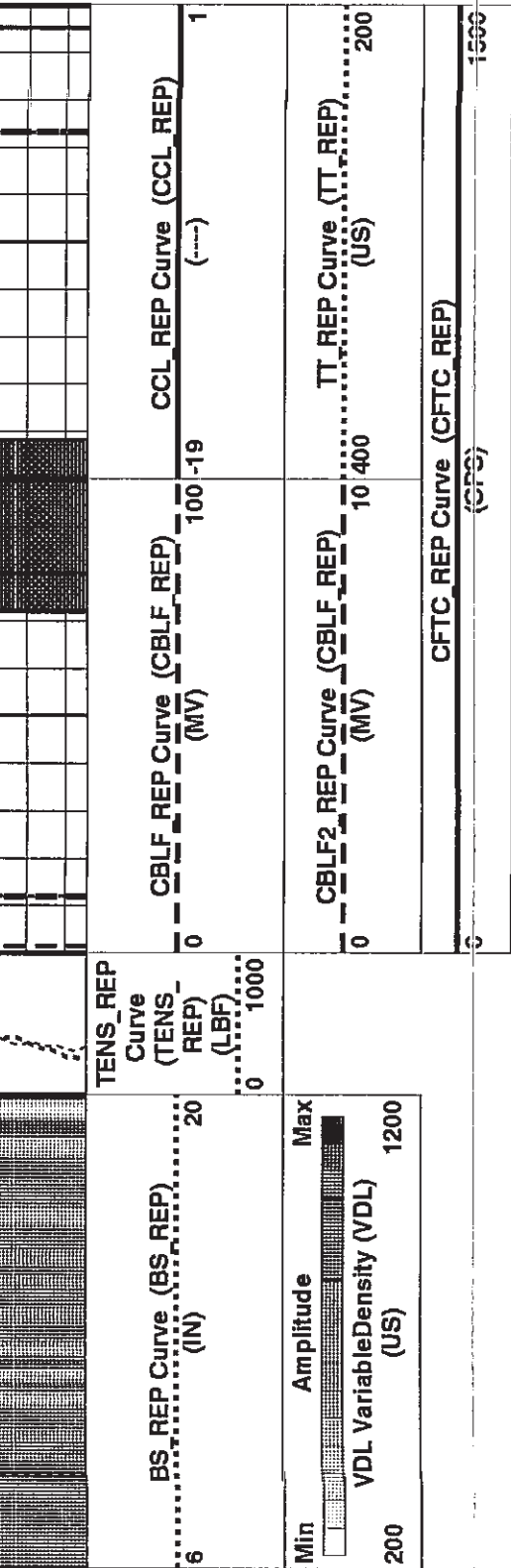




1250

1275





PIP SUMMARY

Time Mark Every 60 S

Format: CBL_Fluid_Compensated_REP Vertical Scale: 1:200

Graphics File Created: 24-May-2006 12:50

OP System Version: 14C0-302
MCM

SDT-C 14C0-302
TCC-B 14C0-302

CNT-H 14C0-302
CAL-Y 14C0-302

Input DLIS Files

DEFAULT SONIC_CNL_006PUP

FN:5 PRODUCER 24-May-2006 12:48 1282.6 M

1220.0 M

Output DLIS Files

DEFAULT SONIC_CNL_007LUP

FN:6 PRODUCER 24-May-2006 12:50

Schlumberger

Calibracion

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Compensated Neutron - H Wellsite Calibration - Zero Measurement							
Master: 15-May-2006 11:30	Before: 24-May-2006 12:05						
CNTC Background	1.000	0.5391	0.5300	N/A	N/A	N/A	CPS
CFTC Background	0	1.044	2.649	N/A	N/A	N/A	CPS
Compensated Neutron - H Wellsite Calibration - Jig Measurement							
Master: 15-May-2006 11:45	Before: 24-May-2006 12:11						
CNTC Jig	2782	2782	2772	N/A	N/A	N/A	GPS
CFTC Jig	1195	1195	1178	N/A	N/A	N/A	GPS
CNTC/CFTC (Jig)	2.327	2.327	2.354	N/A	N/A	N/A	

The CNT Master Calibration Was Done With The Following Parameters :

NCT-B Water Temperature 19.0 DEGC.
Thermal Housing Size 3.365 IN.

Compensated Neutron - H / Equipment Identification

Primary Equipment:	
Compensated Neutron Cartridge	CNC - HA 212
Neutron Logging Source	NLS - KL
Neutron Source Radioactive	NSR - F 2112
Compensated Neutron Box	CNB - AB
Neutron Detector without Alpha Source	CND - NA
Compensated Neutron Box	CNB - AB
Auxiliary Equipment:	
Compensated Neutron Housing	CNH - A 2021
Neutron Calibration Tank	NCT - B

Compensated Neutron - H Wellsite Calibration

Zero Measurement			
Phase	CNTC Background CPS	Value	Phase
Master		0.5391	Master
Before		0.5300	Before
		5.000 (Maximum)	
		1.000 (Nominal)	
		-0.010000 (Minimum)	
Master: 15-May-2006 11:30			Before: 24-May-2006 12:05

Compensated Neutron - H Wellsite Calibration

Jig Measurement			
Phase	CNTC Jig CPS	Value	Phase
Master		2782	Master
Before		2772	Before
		5.000 (Maximum)	
		1.000 (Nominal)	
		-0.010000 (Minimum)	
Master: 15-May-2006 11:45			Before: 24-May-2006 12:11

Master	2782	Master	1195	Master	2327
Before	2772	Before	1178	Before	2354
2643 (Minimum)	2782 (Nominal)	2921 (Maximum)	1136 (Minimum)	1195 (Nominal)	1255 (Maximum)
Master: 15-May-2006 11:45	Before: 24-May-2006 12:11				2327 (Nominal)
				2287 (Minimum)	2357 (Maximum)

Compania: YPF S.A.

Pozo: YPF.Ch.LC-682

Campo: LA CAROLINA

Provincia: CHUBUT

Pais: ARGENTINA

Schlumberger

CONTROL DE CEMENTO

CBL VDL CNL CCL

1/200



DIVISION REGIONAL SUR
UNIDAD ECONOMICA CHUBUT - C.S.



EQUIPO: PI-222 POZO: LC-682
 DISTRITO N°: MANANTIALRES BHER CIA DE CABLE: Schlumberger
 PROYECTO : DRILL 150 CIA DE FRACTURA: Schlumberger

ESQUEMA DE TERMINACIÓN

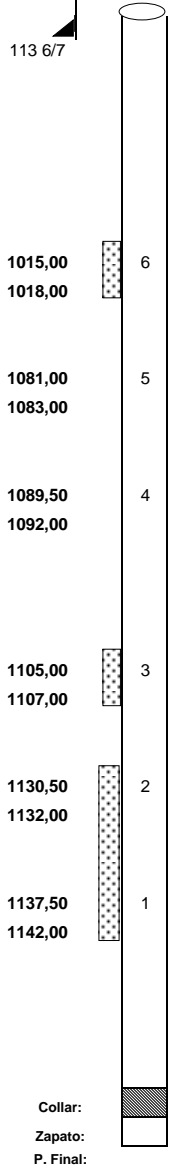
PEP: PEP RS1EC.6E03.53.P0002

OBJETIVO: Poner en Producción

INICIO: 29-may-06
 TERMINO: 05-jun-06

ACTUAL: Baja Instalación final C/bomba
 Proximos DTM al Pozo M-629

CASING: 5 1/2"
 9-5/8" 14 #
 113 6/7



CAUDAL	FLUIDO	NIVEL	ANALISIS				SAL	Hs Ensayo	QB	QN
			I-T	DEN	Temp	A/SEP				
3000	Ag s/rast.	500			25		4.6/PH-7			
C/arena en copas ensayó Tapón c/resultado positivo										
Cementó en cjto. C/30 Bls. PI: 920 ; PF: 1510 ; PF: 2100 psi - Ensasyó Hermeticidad c/resultado positivo										
	S/E									
1100	Pet.	905	12	0.880	26	10	4.0/PH-7	7,25	26,40	23,76
C/arena en copas constató 1 m de arena sobre tapón										
Reensayó : c/igual resultado anterior) p/comprobar punzado abierto)										
1100	Pet.	905	45	0.880	26	45%	4.0/PH-7	5,5		
Bajando										
3000	Ag.C/ GAS	700			25		5.8/PH-8	8,5		
Cementó en cjto. C/15 Bls. PI: 1400 ; PF: 1620										
3000	Ag. S/rast.	758			25		2.9/PH-8	6		
Cementó en cjto. C/30 Bls. PI: 1100 ; PF: 2300 ; PC: 2540 psi - Ensasyó Hermeticidad c/resultado positivo										
En Conjunto con zona N° 3										
1100	Ag. C/R. De gas	951			28		5.8/PH-7	7,5		

26,40 | 23,76

