



Legajos del Pozo LC-668

COMPANIA: YPF S.A.

POZO: YPF.Ch.LC-668

CAMPO: LA CAROLINA

PROVINCIA: CHUBUT

PAIS: ARGENTINA



COMBINADA

ESCALA: 1/200

AIT-LDL-CNL-CAL
RFT

Elev.: B.V. 434.61 m
N.T. 430.06 m
M.R. 434.31 m

LOCACION

Ref. Permanente: NIVEL TERRENO Elev.: 430.06 m
Reg. Medido Desde: NIVEL TERRENO 0.0 m sobre nivel ref.
Perforacion Medida Desde: NIVEL TERRENO

UWI: AR0100006442

Equipo PI-245

Longitud X: 4.946.409,71

Latitud Y: 2.571.899,61

Fecha: 26-Jun-2005

Prof. Perforador: 1

Prof. Registro: 1250 m

Primera Lectura: 1252.1 m

Ultima Lectura: 1249.4 m

Orificio: 114 m

Orificio Tuberia Perforador: 9.625 in @ 113.64 m

Orificio Tuberia Registro: 114 m

Orificio Tuberia Registro: 8.750 in

Orificio Tuberia Registro: 114 m

Orificio Tuberia Registro: 114 m

Orificio Tuberia Registro: 114 m

Orificio Tuberia Registro: 114 m

Orificio Tuberia Registro: 114 m

Orificio Tuberia Registro: 114 m

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			
RMC @ Measured Temperature			
Source RMF			
RM @ MRT			
RMF @ MRT			
Maximum Recorded Temperatures			
Circulation Stopped			
Logger On Bottom			
Unit Number			
Recorded By			
Witnessed By			

DEPTH SUMMARY LISTING

Date Created: 27-JUN-2005 12:06:19

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: 06-Apr-2005	Calibration Date: 03-Feb-2005	Length: 4810.05 M
Calibrator Serial Number: 5969	Calibrator Serial Number: 1028	Conveyance Method: Wireline
Calibration Cable Type: 7-42P-XS	Calibration Gain: 1.02	Rig Type: LAND
Wheel Correction 1: -3	Calibration Offset: -13.00	
Wheel Correction 2: -4		

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	59.50 M
Rig Up Length At Bottom:	59.50 M
Rig Up Length Correction:	0.00 M
Stretch Correction:	1.20 M
Tool Zero Check At Surface:	0.10 M

Depth Control Remarks

1. Primera carrera en el pozo y perfil de referencia de profundidad.
2. Control estandar de profundidad de Schlumberger aplicado a esta carrera.
3. Correccion por estiramiento del cable entre perfil subiendo y bajando = 1.2 m.
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
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1. Primera carrera en el pozo y perfil de referencia de profundidad.
2. Herramienta corrida segun diagrama.
3. Diagrama del pozo segun datos del perforador.
4. AIT corrida eccentralizada con standoffs de 1,5".
5. Ultima circulacion termino el 26-Jun-2005 a las 2:00 hs y duro 2:45 hs.
6. Coordenadas definitivas.
7. Datos adicionales del lodo: Cl = 700 ppm, Ca = 460 ppm.
8. Maxima desviacion del pozo segun datos del perforador: 2-1/4 grados.
9. Maxima temperatura registrada de 54 degC desde termometro en la punta de la herramienta

9. Maxima temperatura registrada de 34 degC desde termometro en la punta de la herramienta.

10. FPHI=DPHZ, FNUM=0.81y FEXP=2 utilizados para el calculo de RWA.

11. Lecturas de LDL y CNL afectadas en zonas de mal caliper.

12. CALI, LDL y CNL corridos hasta 750 m a pedido del cliente.

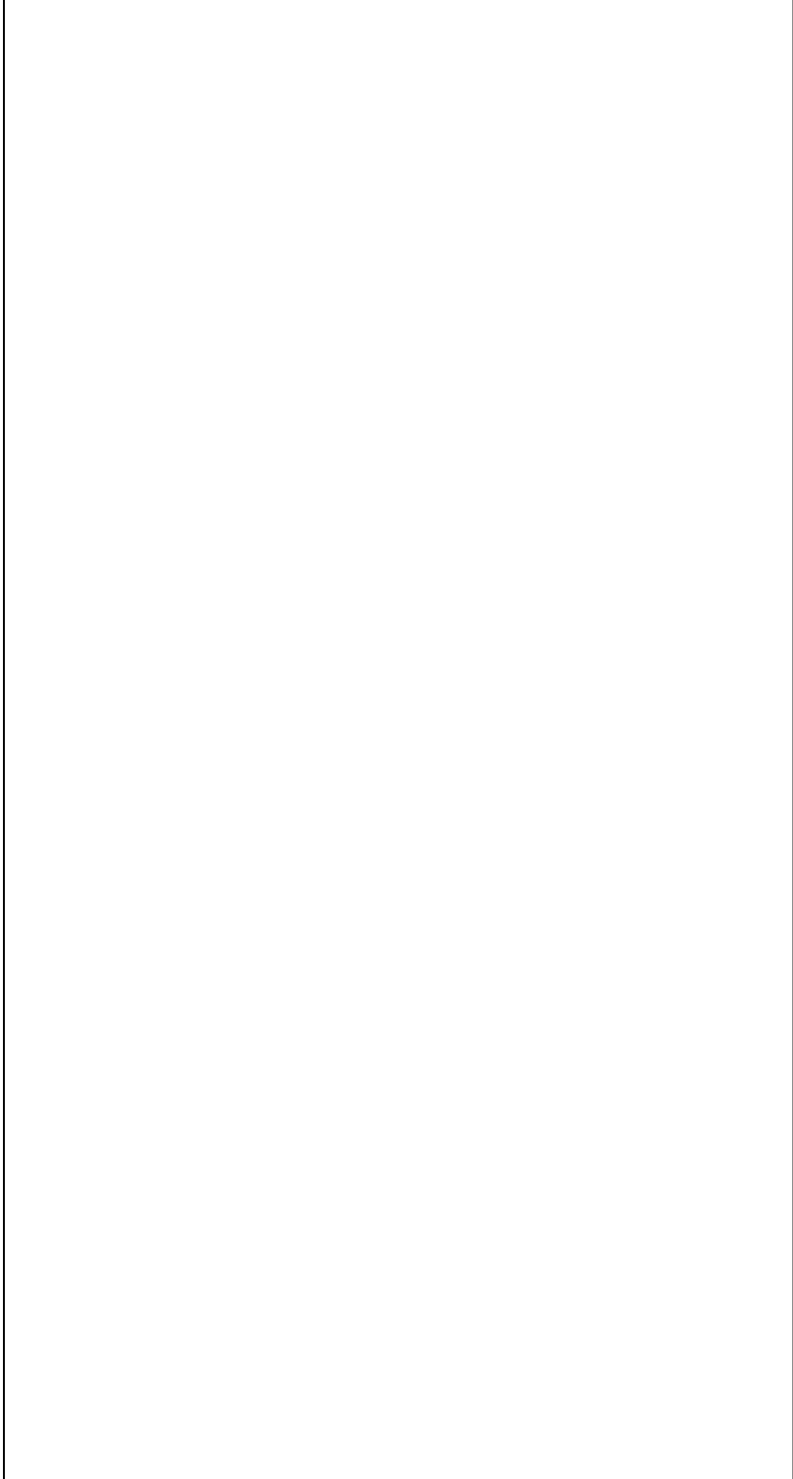
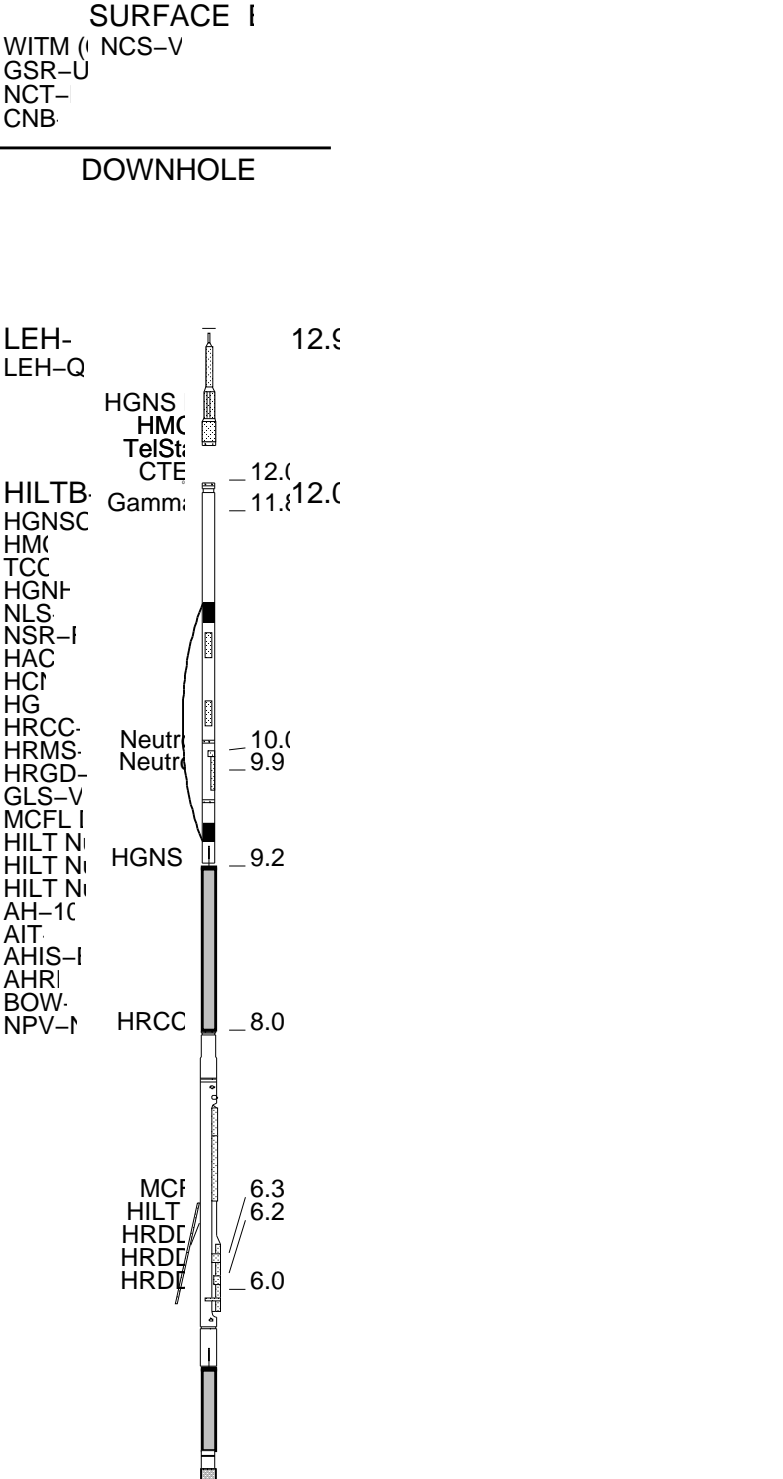
13. Trepano de 8-3/4" desde fondo hasta zapato.

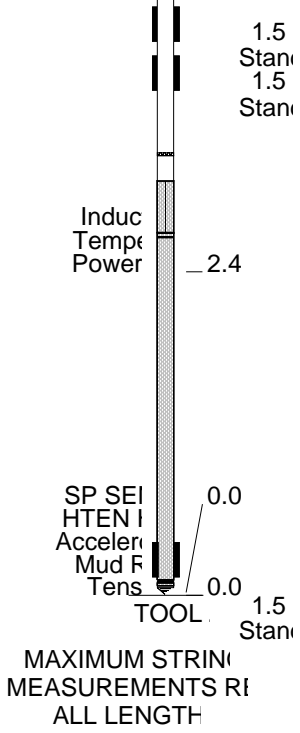
CORRIDA #1			CORRIDA #2		
ORDEN DE SERVICIO:			ORDEN DE SERVICIO:		
VERSION DEL PROGRAMA:			VERSION DEL PROGRAMA:		
NIVEL DEL LODO:			NIVEL DEL LODO:		
13C0-300			0 m		
INTERVALO REGISTRADO	COMIENZO	FINAL	INTERVALO REGISTRADO	COMIENZO	FINAL

DESCRIPCION DEL EQUIPO

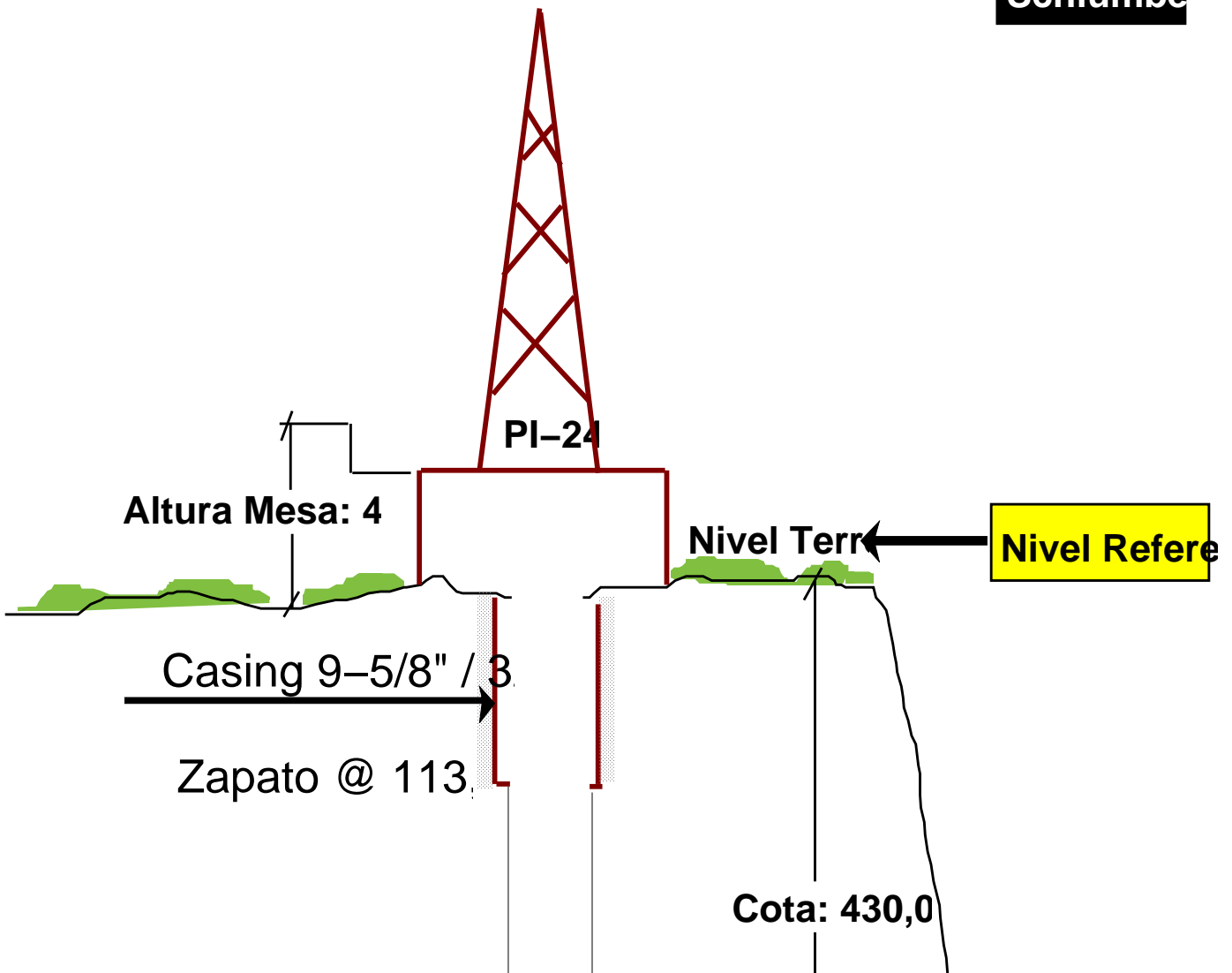
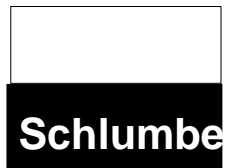
CORRIDA # 1

CORRIDA # 2

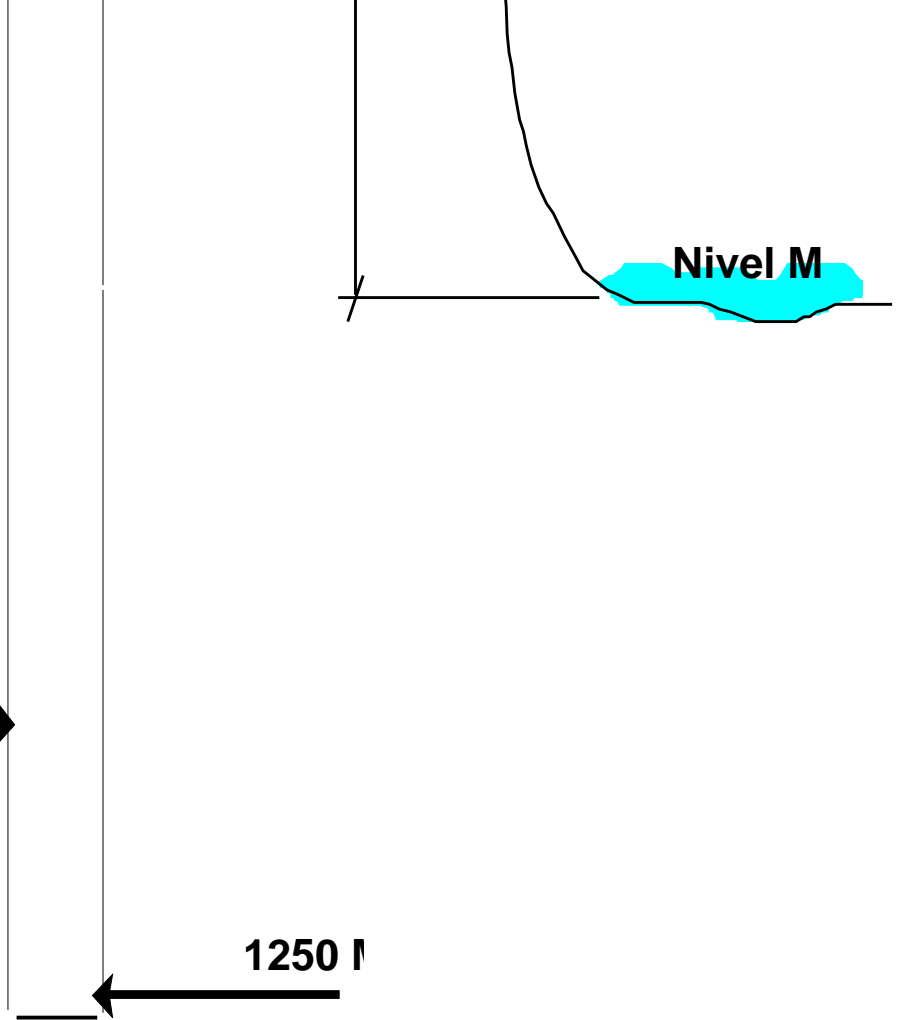




YPF.Ch.LC.



Trepano 8-3/4"



1250 M

Schlumberger

TRAMO PRINCIPAL

MAXIS Field Log

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_071PUP	FN:102	PRODUCER	27-Jun-2005 12:14	1258.4 M	43.3 M
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_072PUP	FN:103	PRODUCER	27-Jun-2005 12:24	1258.4 M	100.1 M
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Integrated Hole/Cement Volume Summary

Hole Volume = 62.70 M3

Cement Volume = 45.26 M3 (assuming 5.50 IN casing O.D.)

Computed from 1252.0 M to 114.1 M using data channel(s) HCAL

OP System Version: 13C0-300

MCM

Changed Parameter Summary

DLIS Name

New Value

Previous Value

Depth & Time

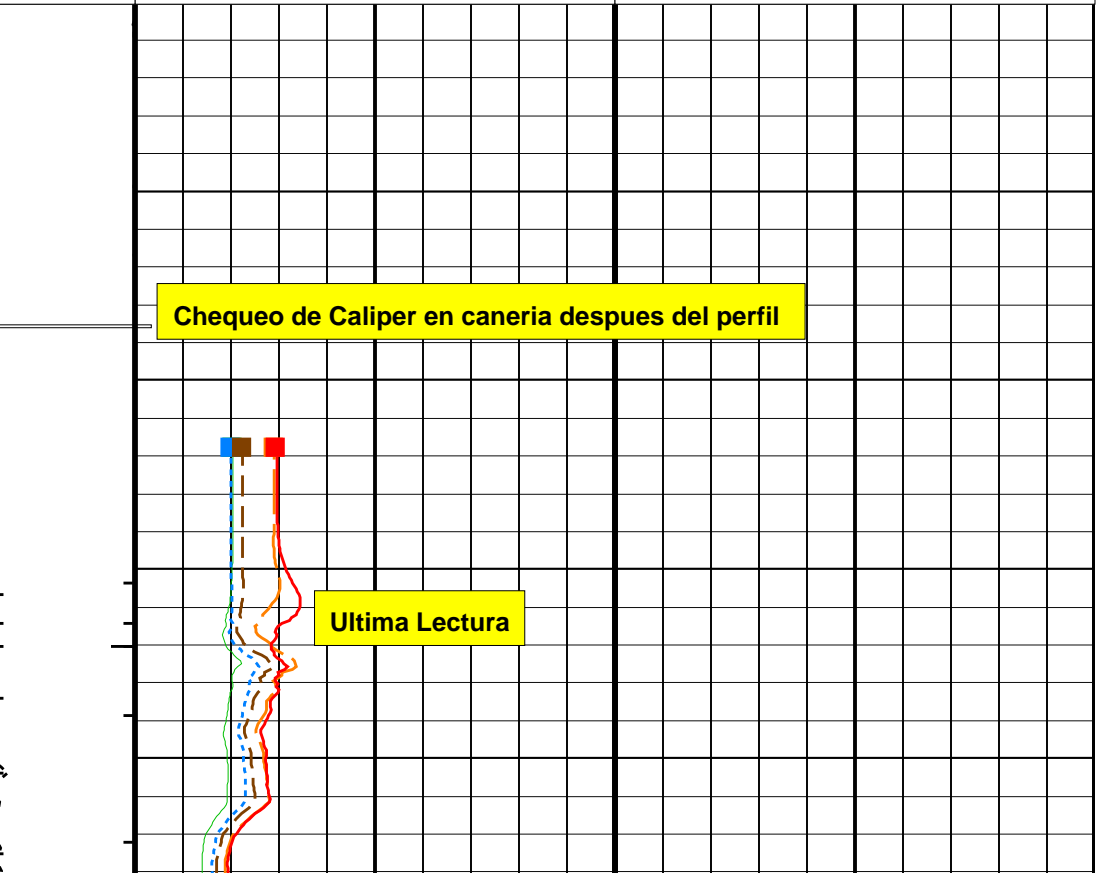
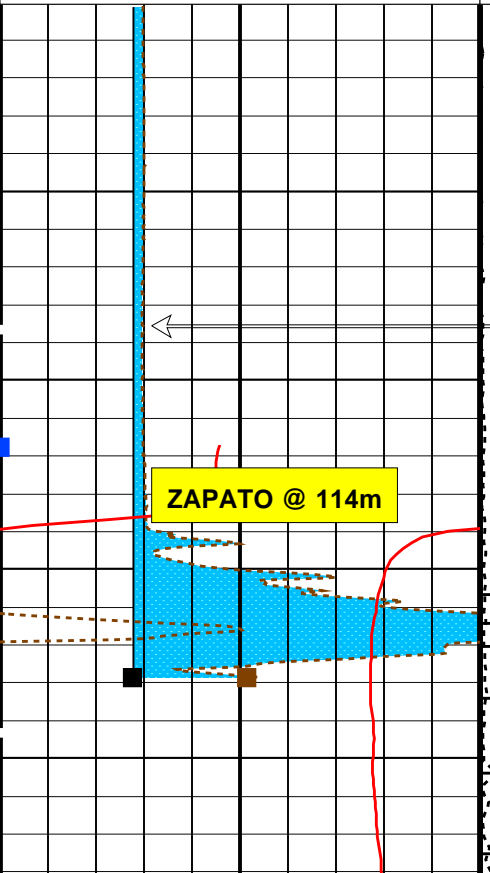
DLIS Name	No	Yes	Depth & Time
AHCDE	-0.21 MV/M	0 MV/M	746.0 12:27:52
SPDR	0.23 MV/M	-0.21 MV/M	1189.9 12:24:09
	0 MV/M	0.23 MV/M	1170.9 12:24:11
	0.25 MV/M	0 MV/M	1149.9 12:24:13
	0 MV/M	0.25 MV/M	892.9 12:24:40
	0 MV/M	0.25 MV/M	872.9 12:24:42

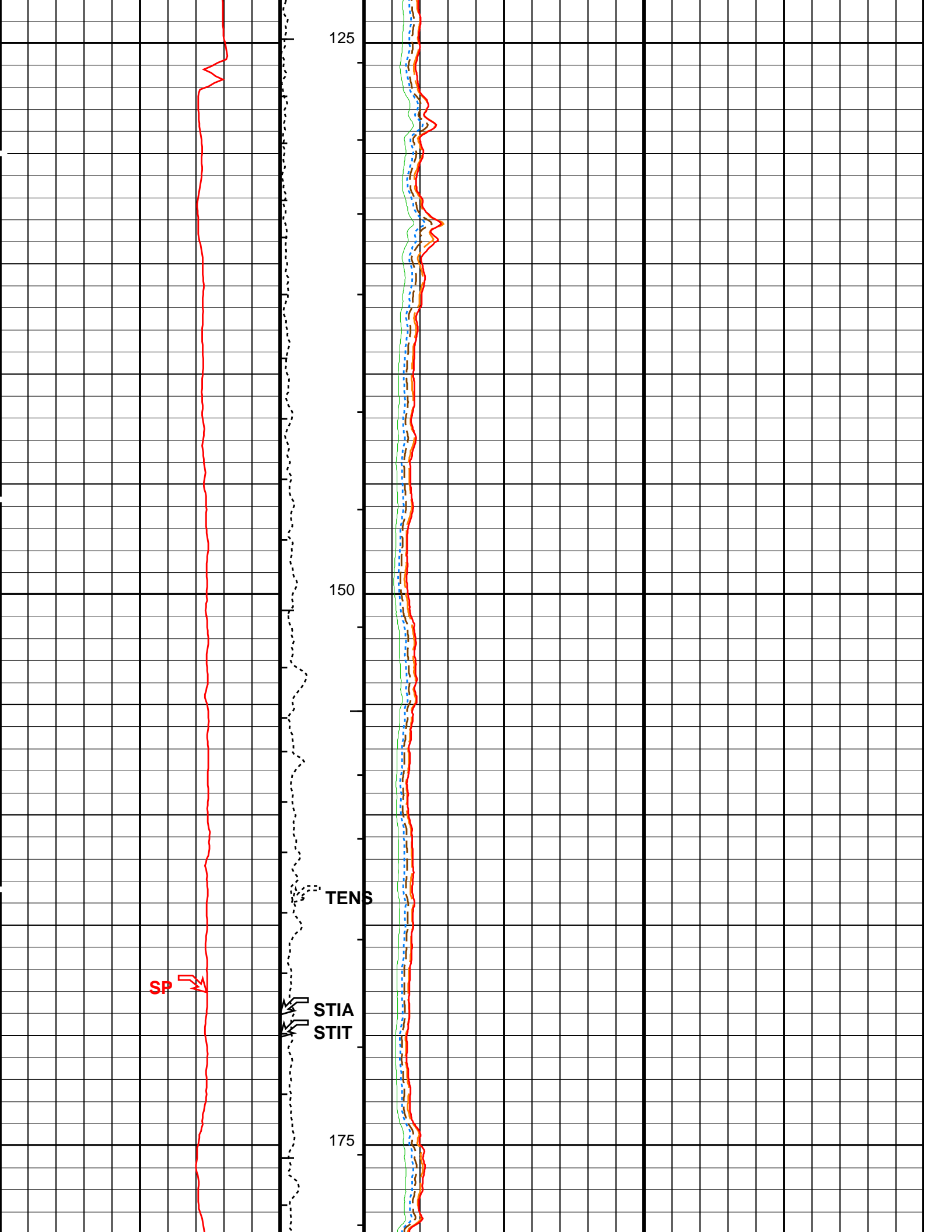
PIP SUMMARY

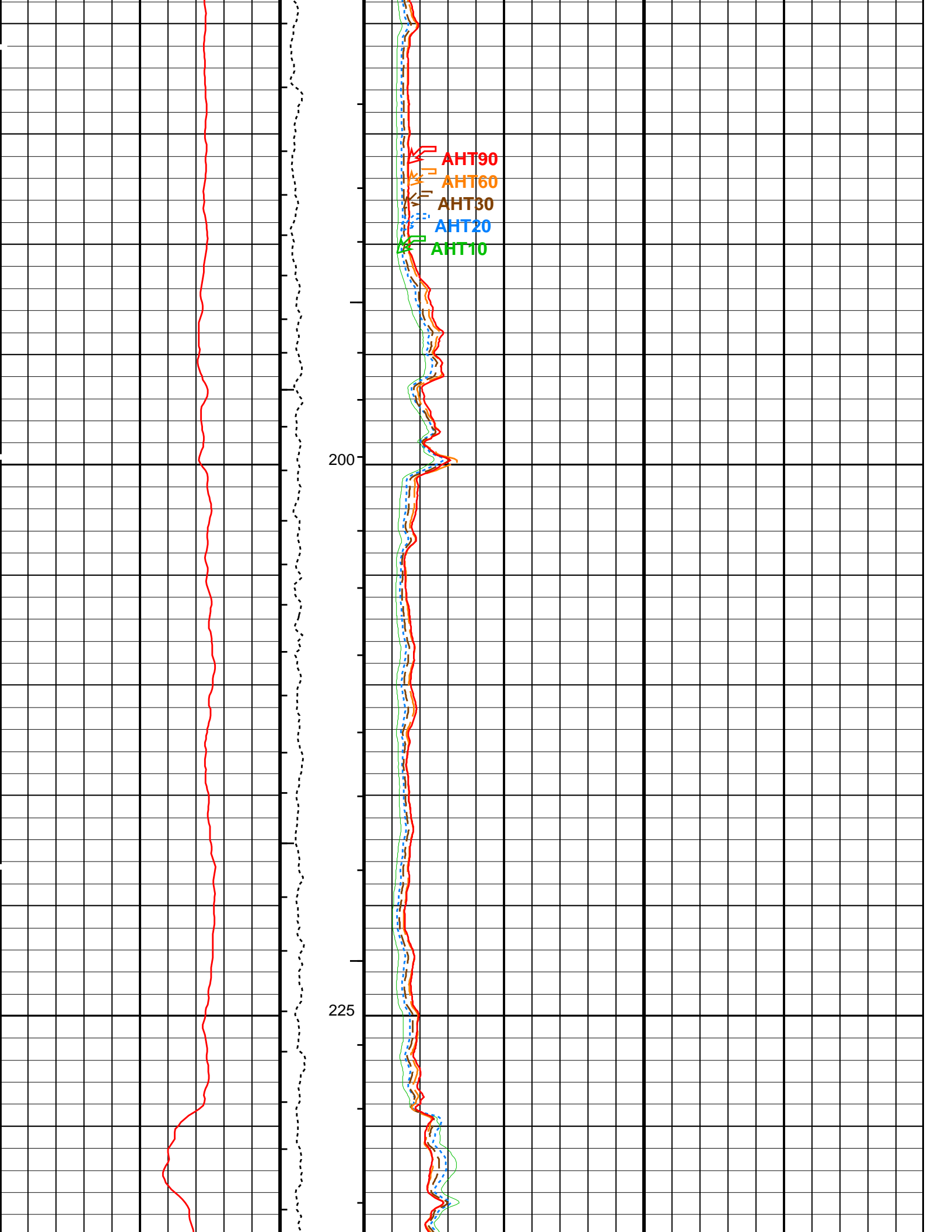
- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Cement Volume Minor Pip Every 0.1 M3
 - └ Integrated Cement Volume Major Pip Every 1 M3

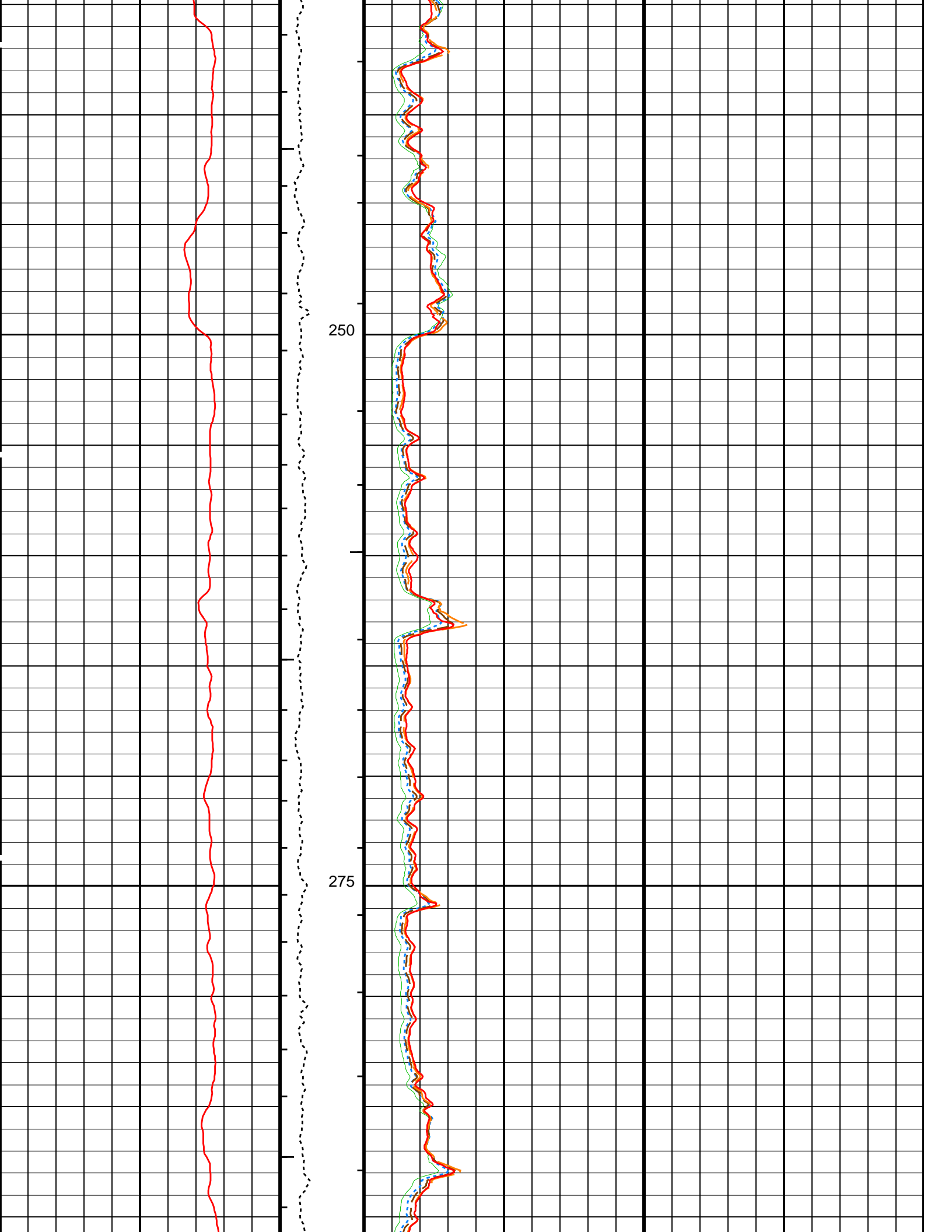
Time Mark Every 60 S

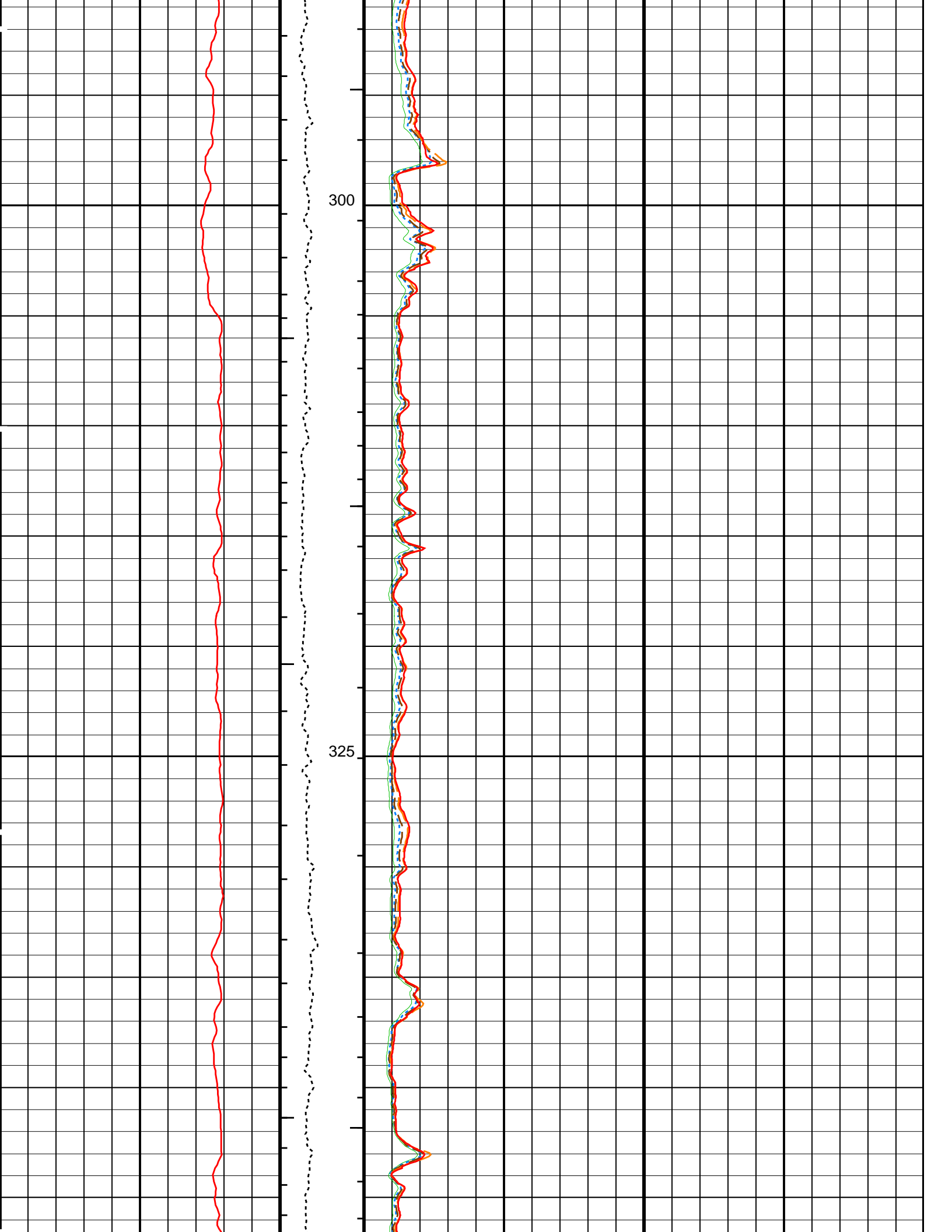
CAVERNA From BS to HCAL			
REVOQUE From HCAL to BS			
SP (SP) (MV)	-80	20	
RWA (RWA) (OHMM)	0	1	
Std. Res. Formation Pe (PEFZ) (----)	0	5	
Caliper (HCAL) (IN)	6	16	
Bit Size (BS) (IN)	6	16	
Stuck Stretch (STIT) (M)	0	20	
Tension (TENS) (LBF)	0	1000	
AIT-H 90 Inch Investigation (AHT90) (OHMM)	0	10	
AIT-H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

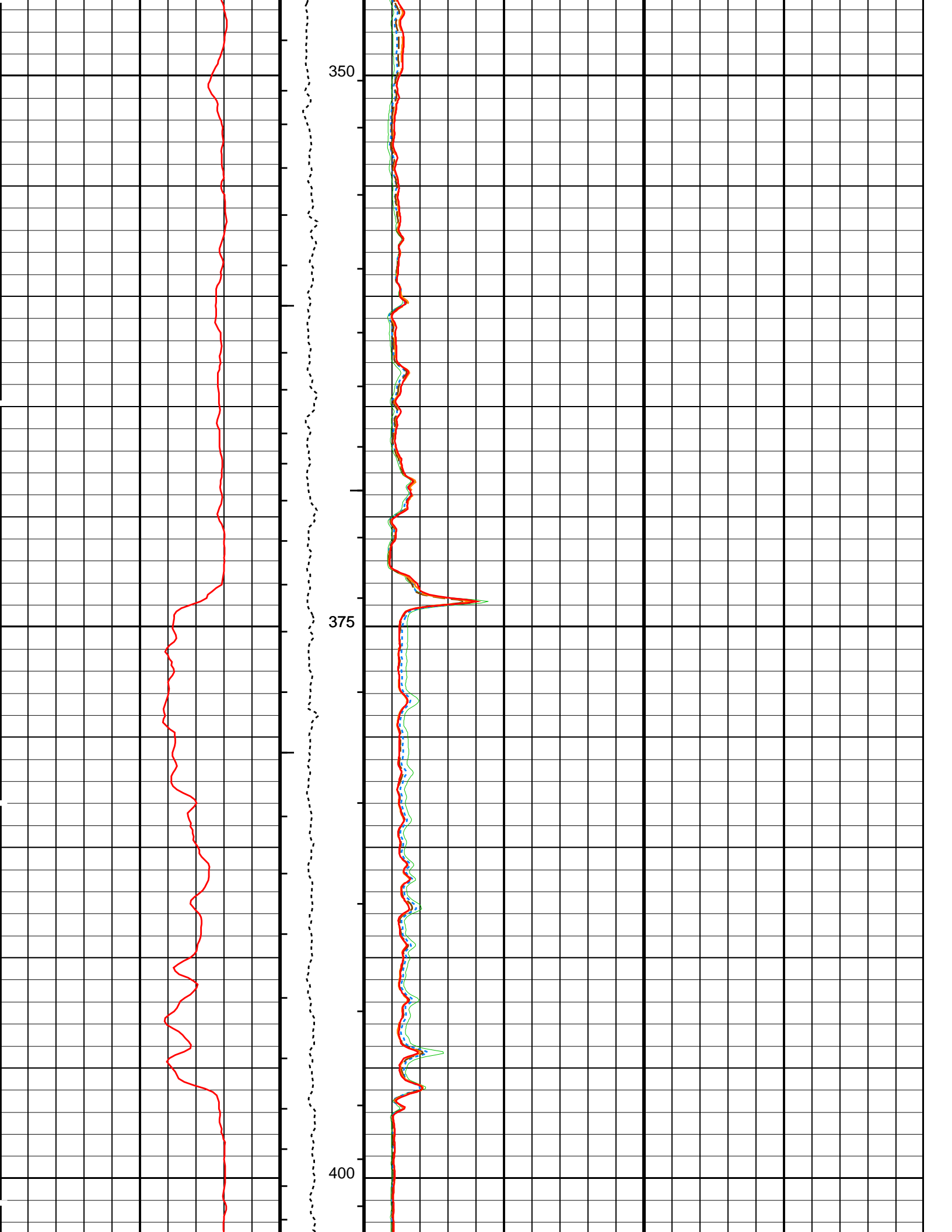


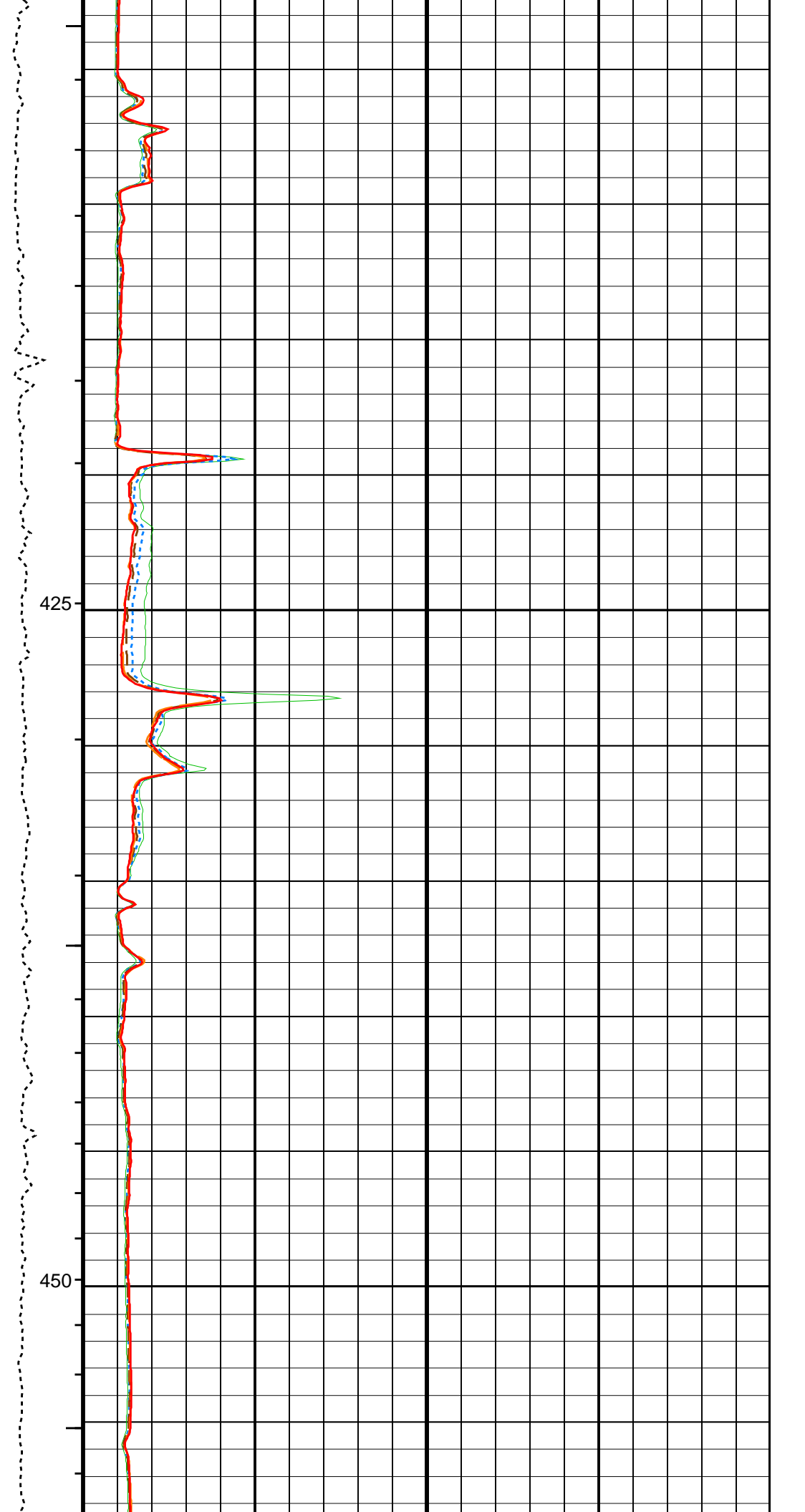
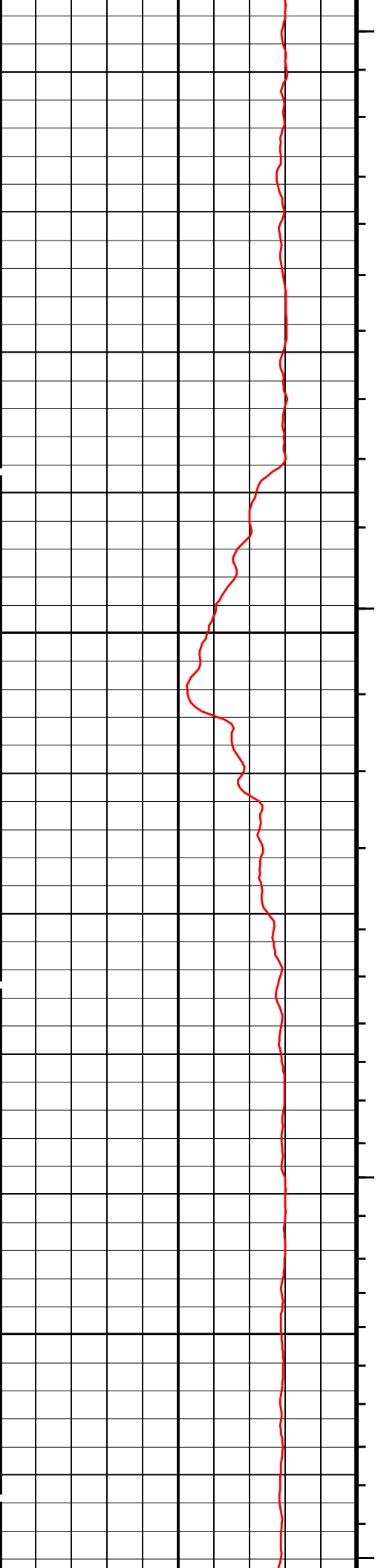


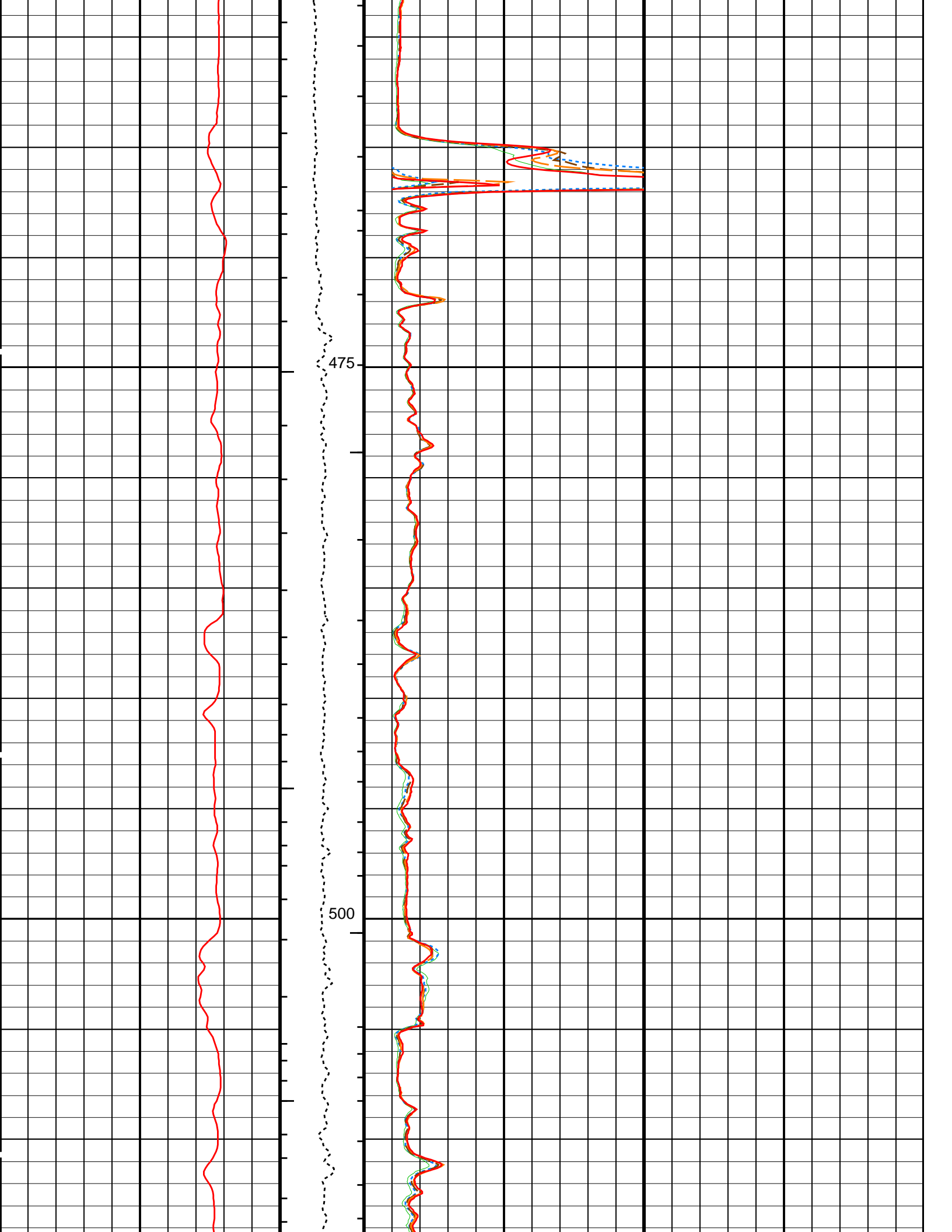


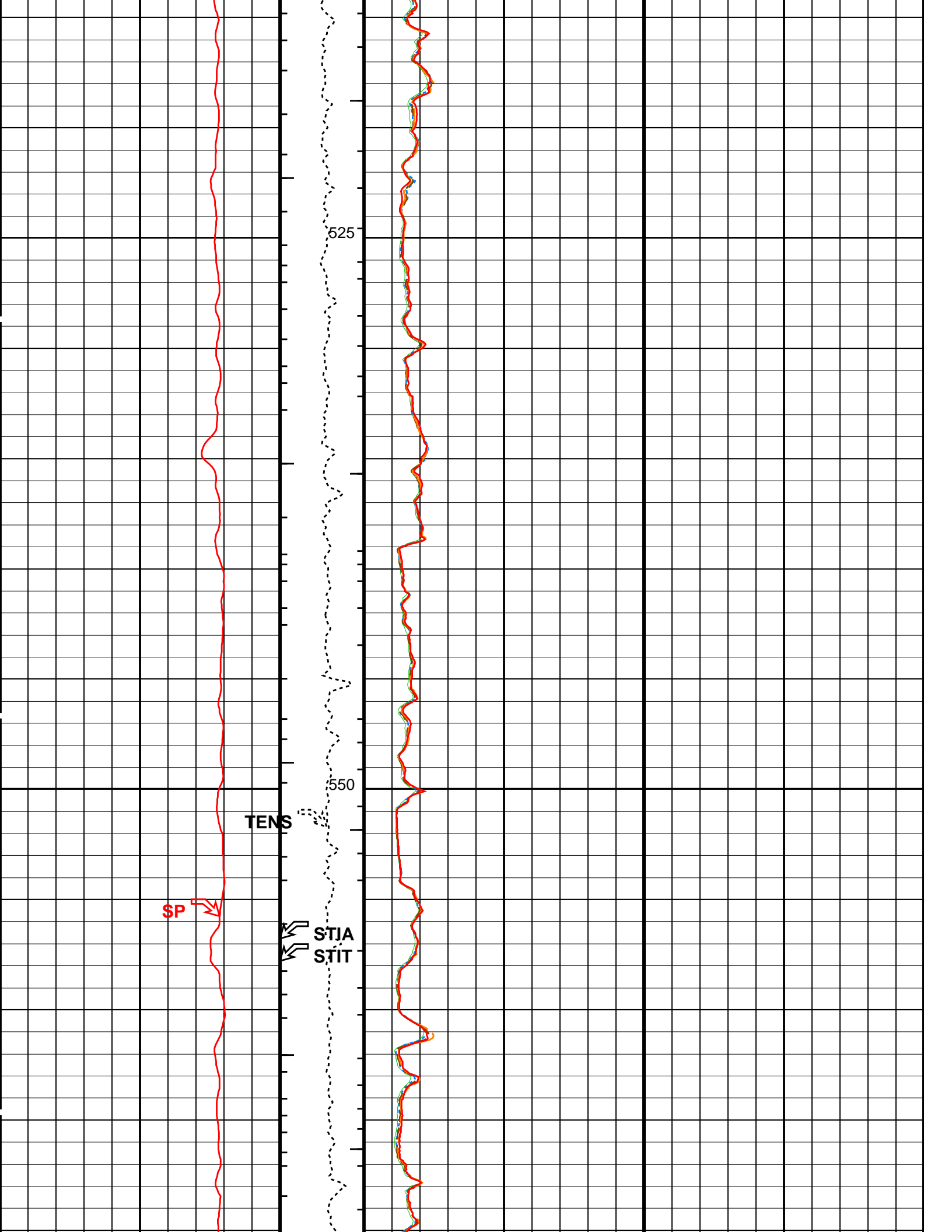


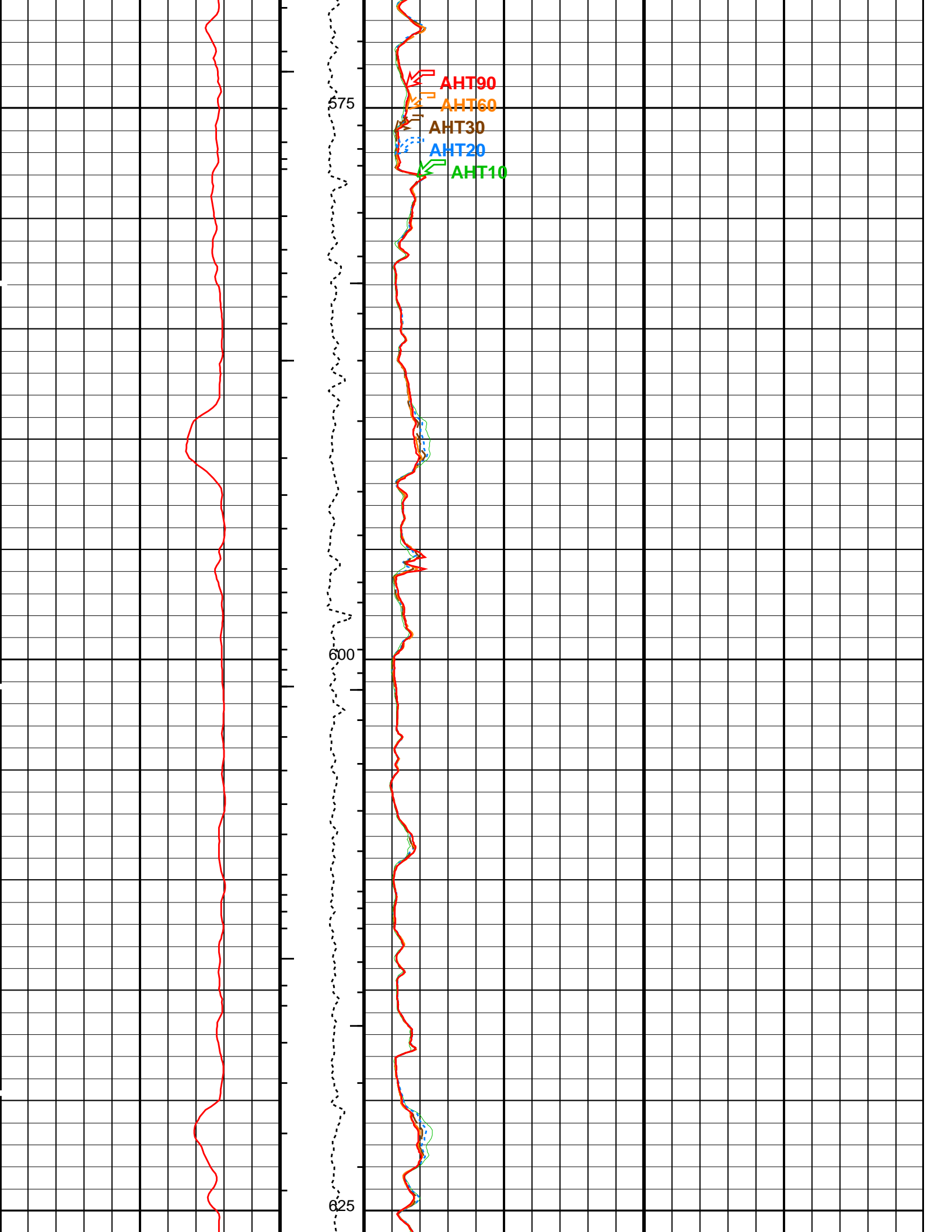


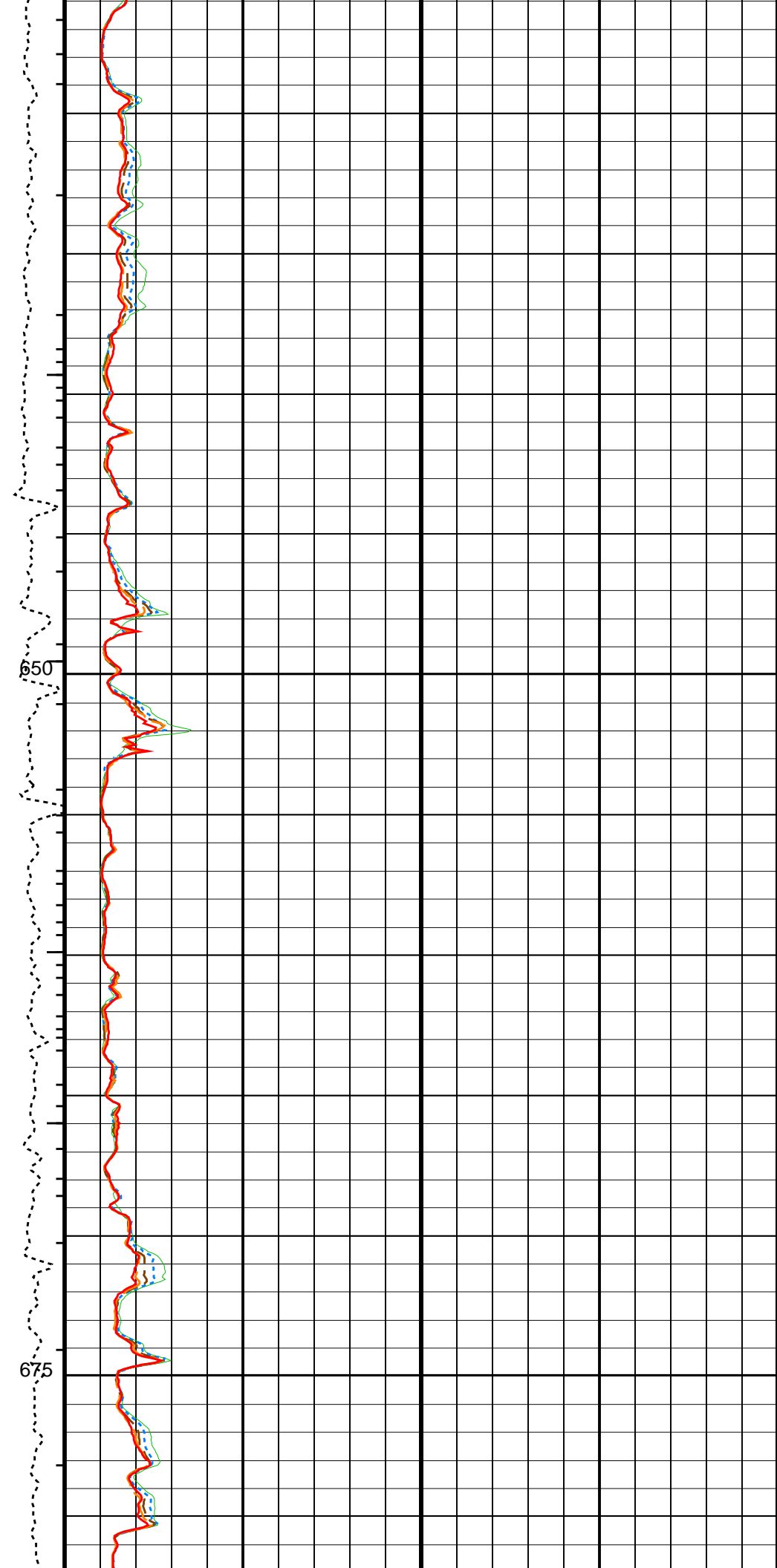
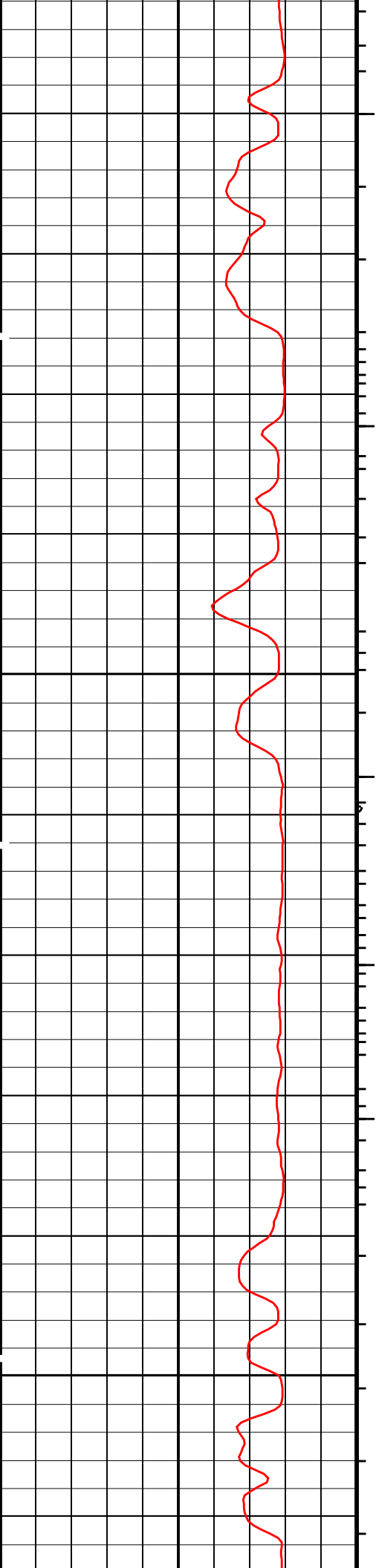


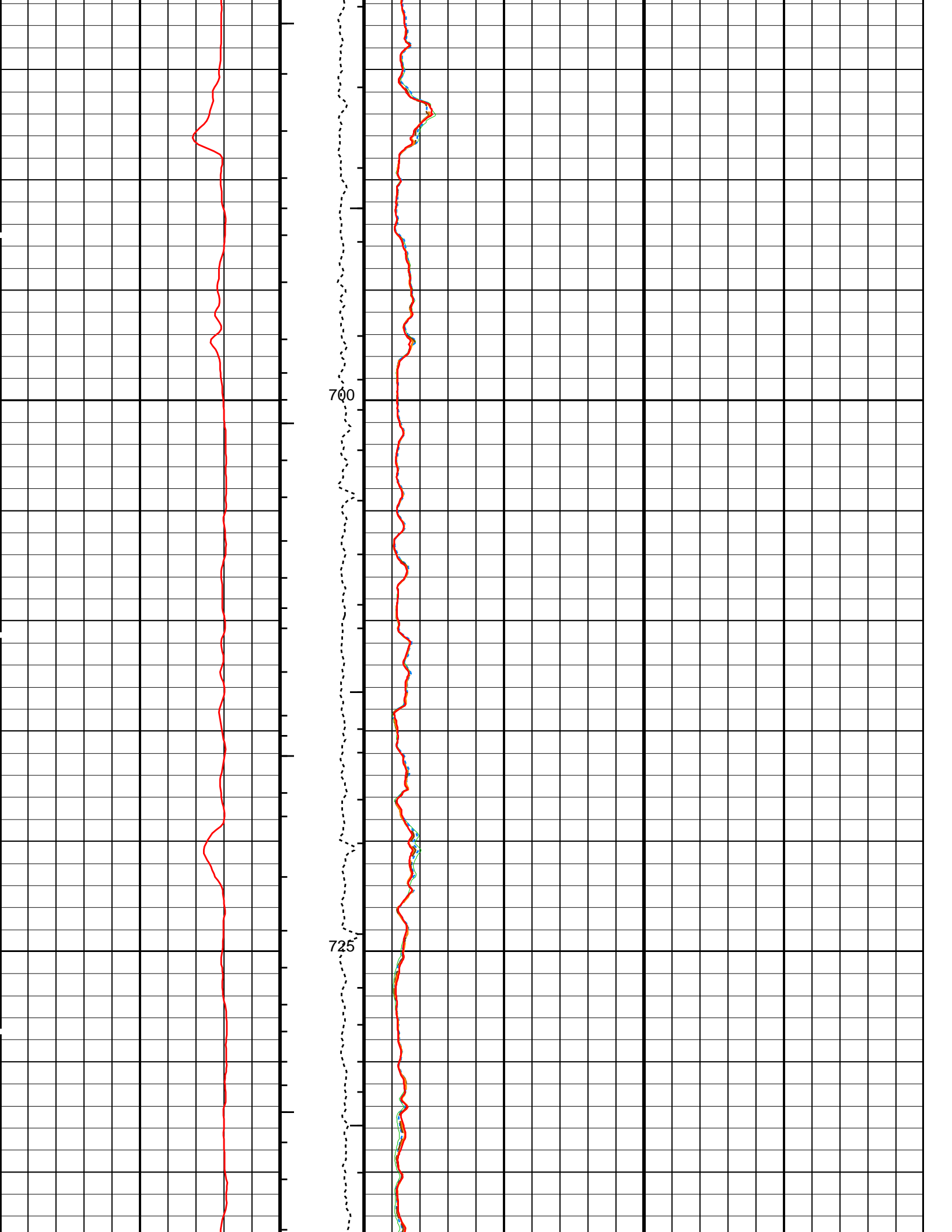


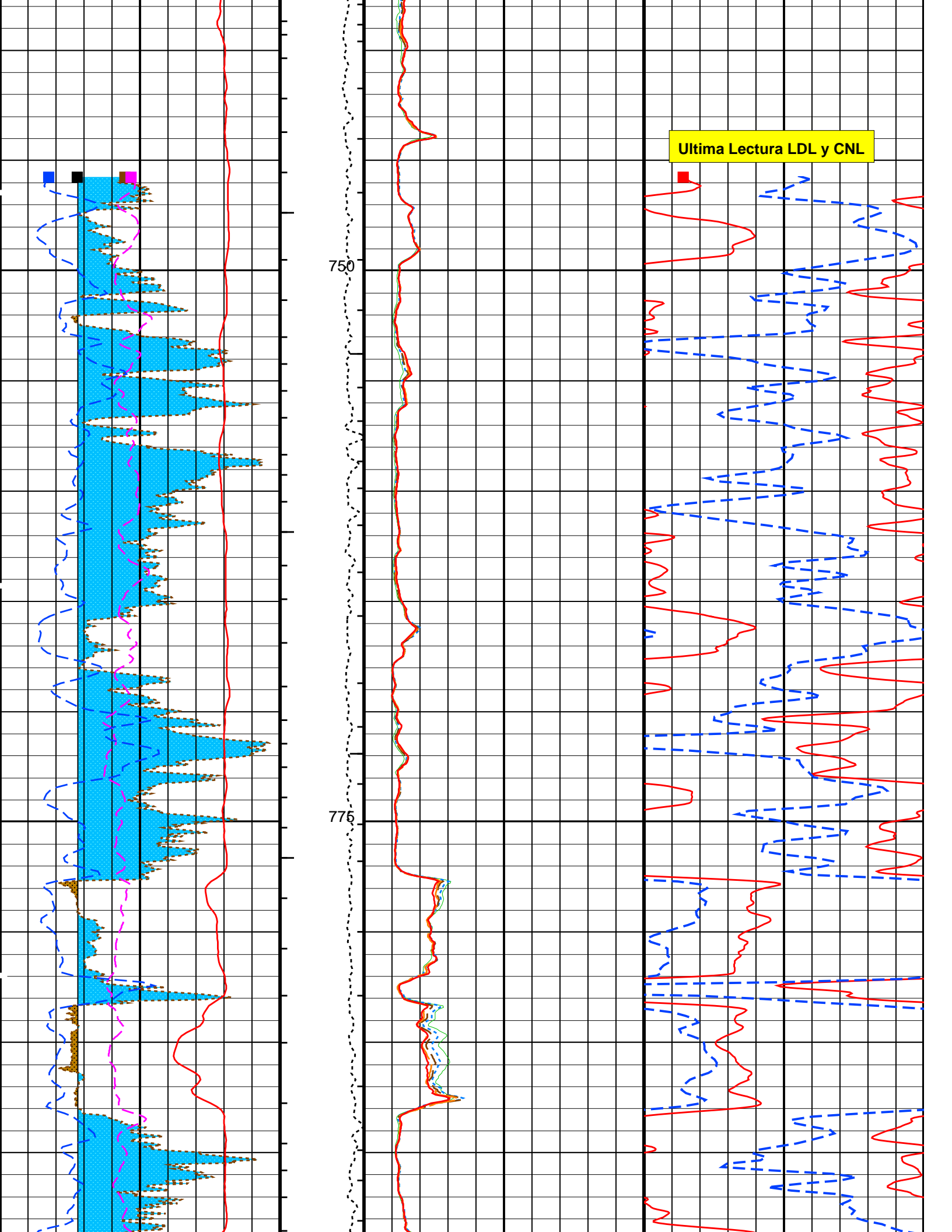


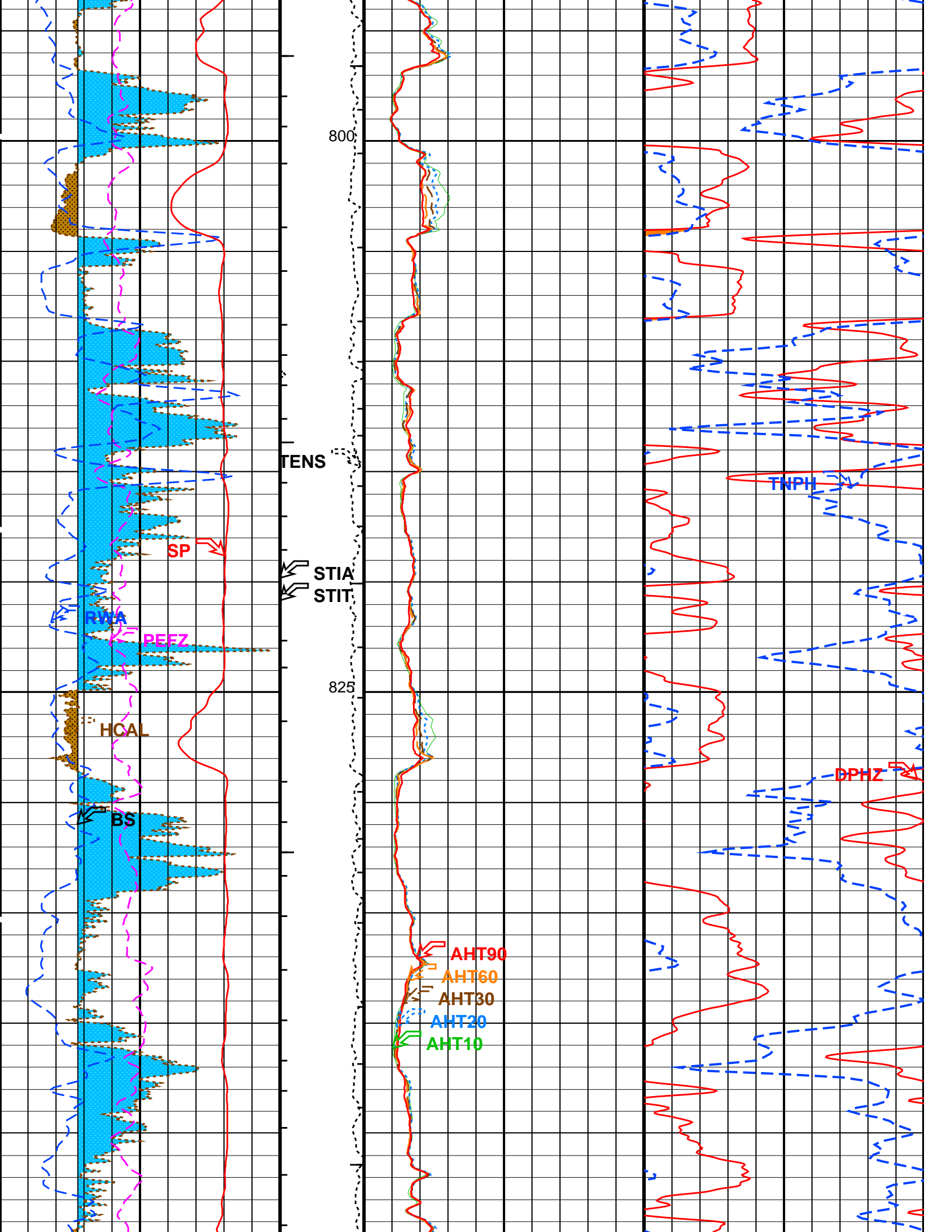


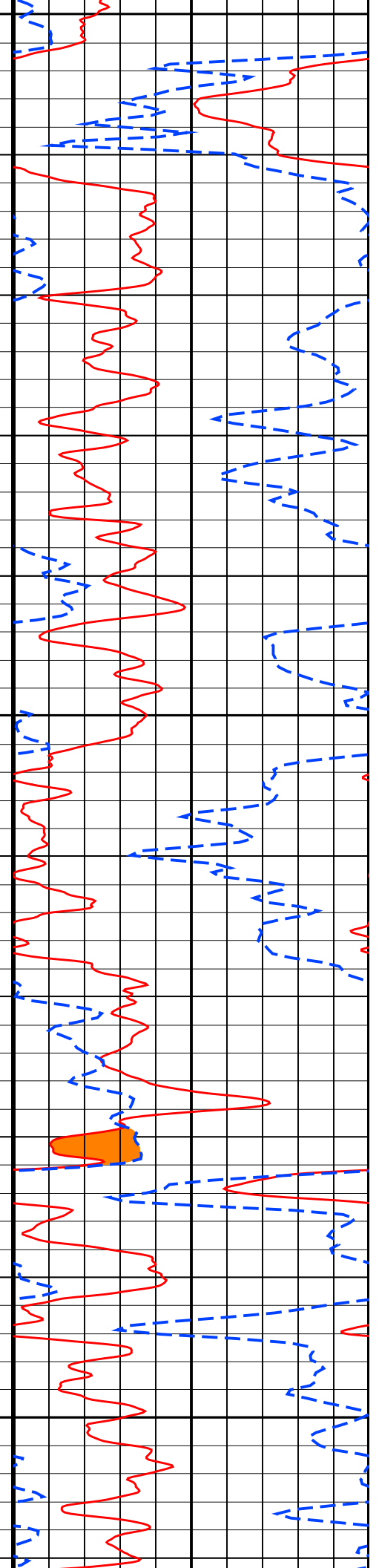
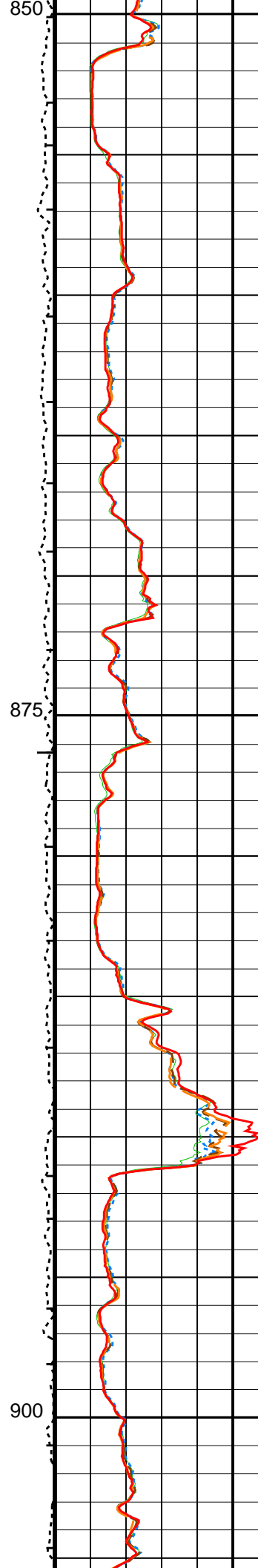
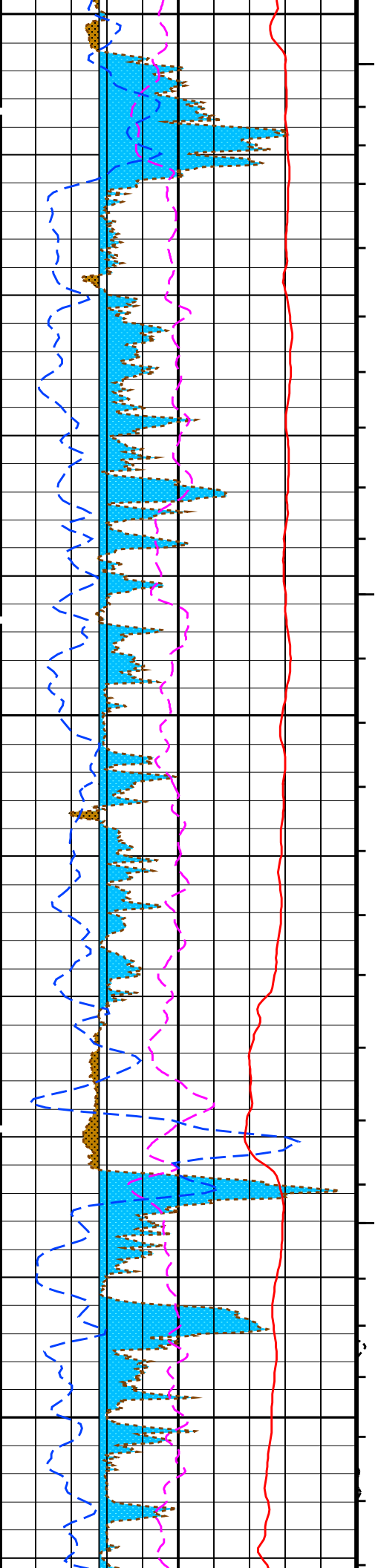


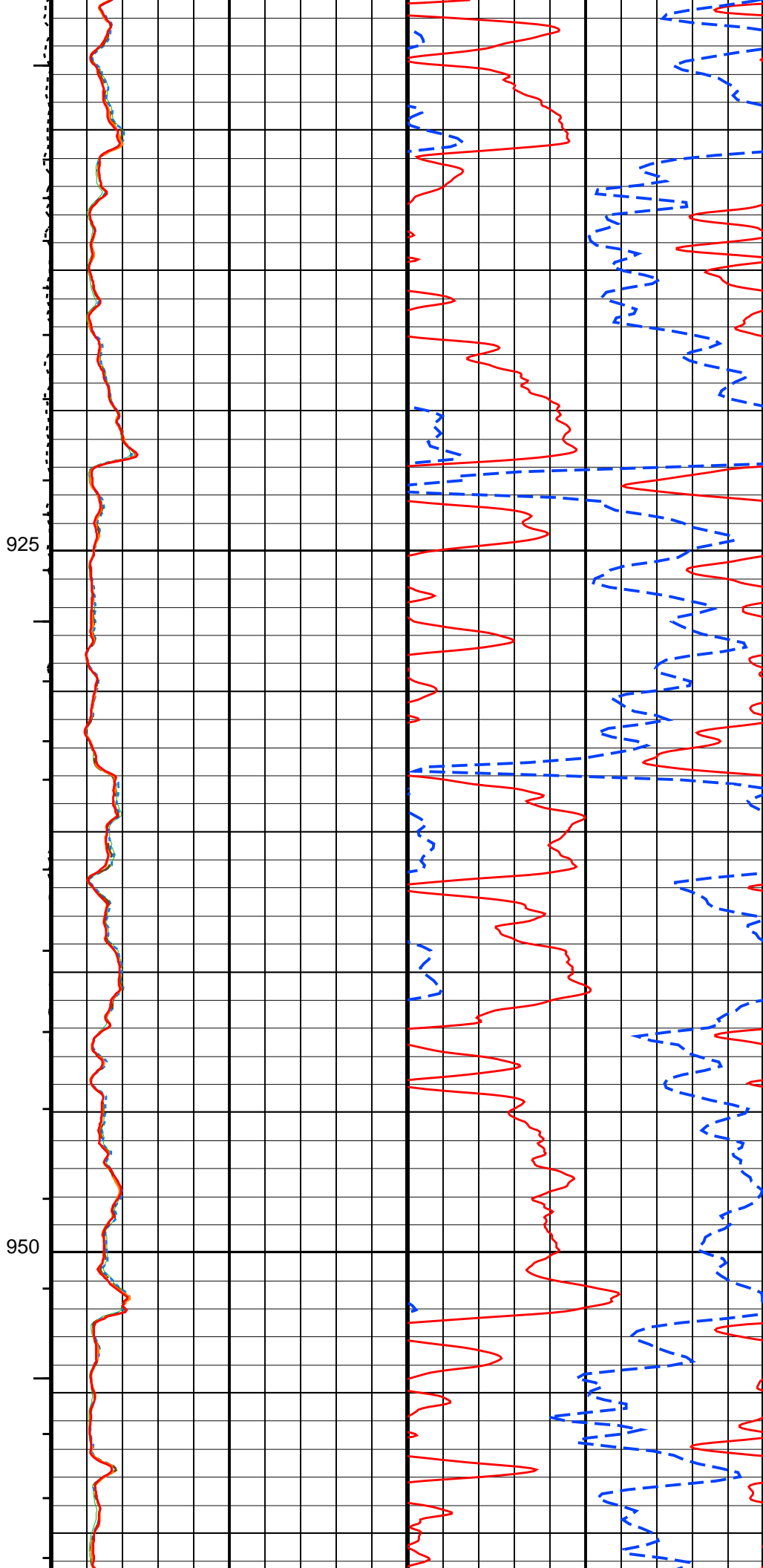
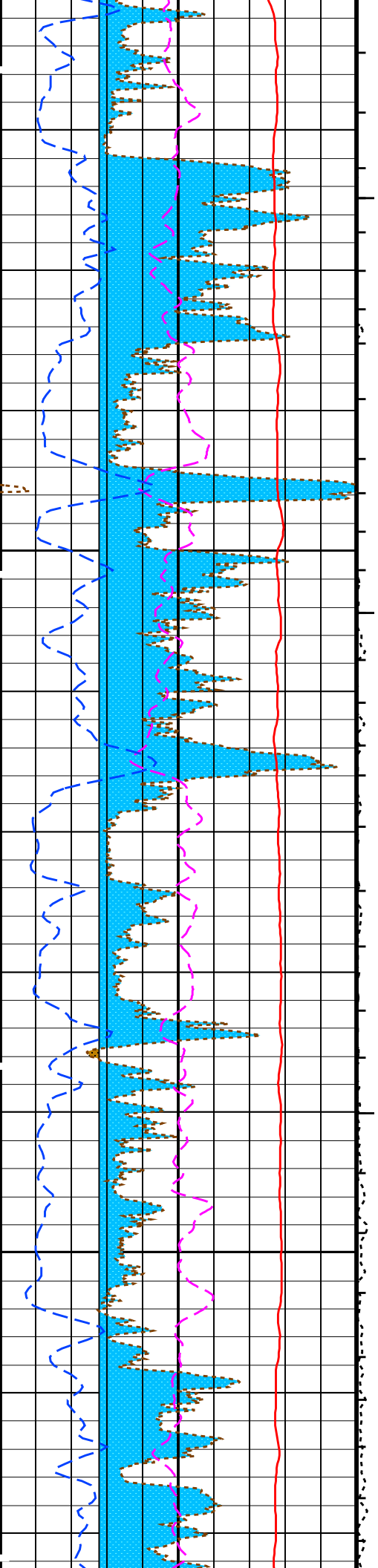






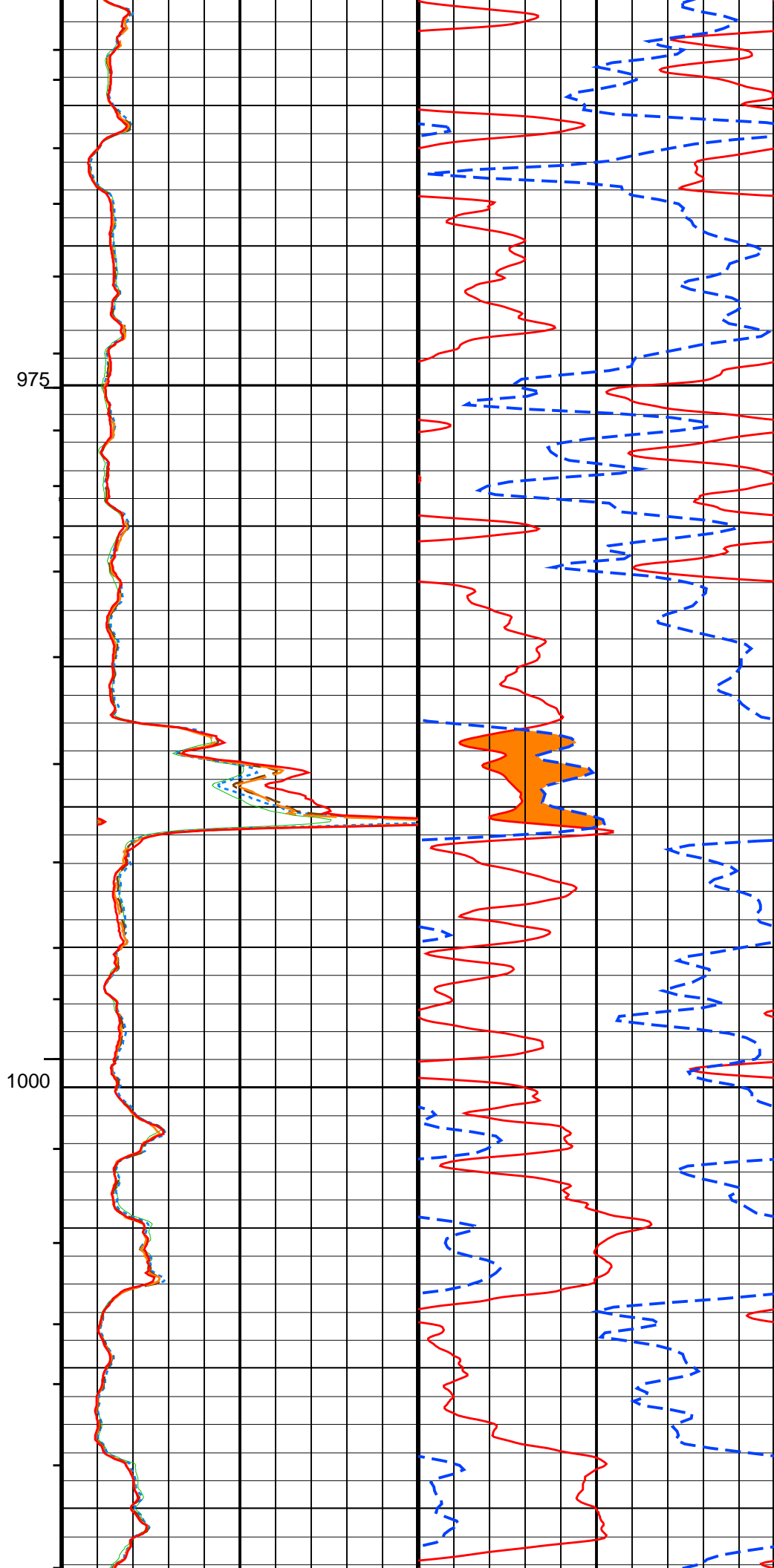
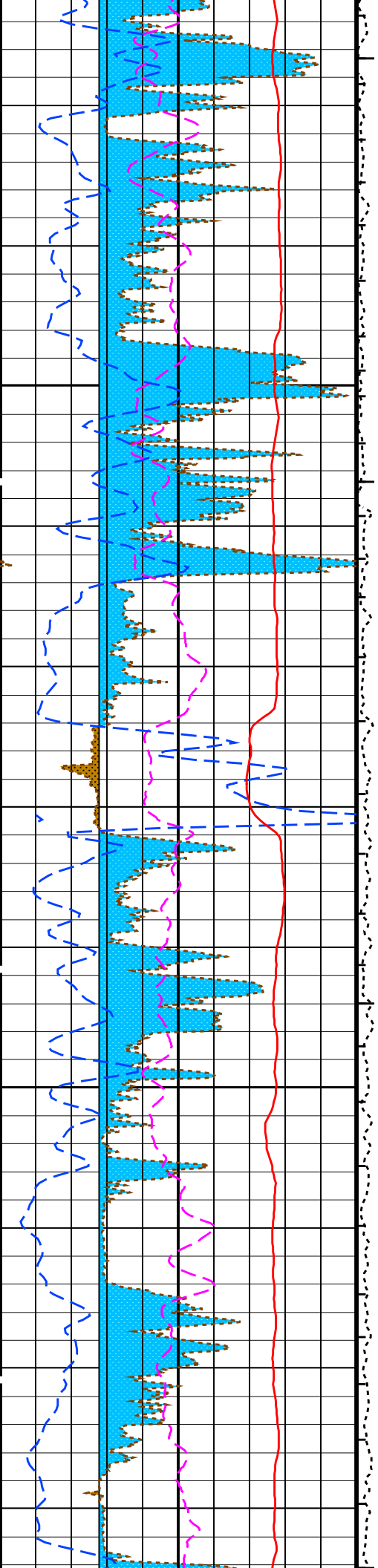


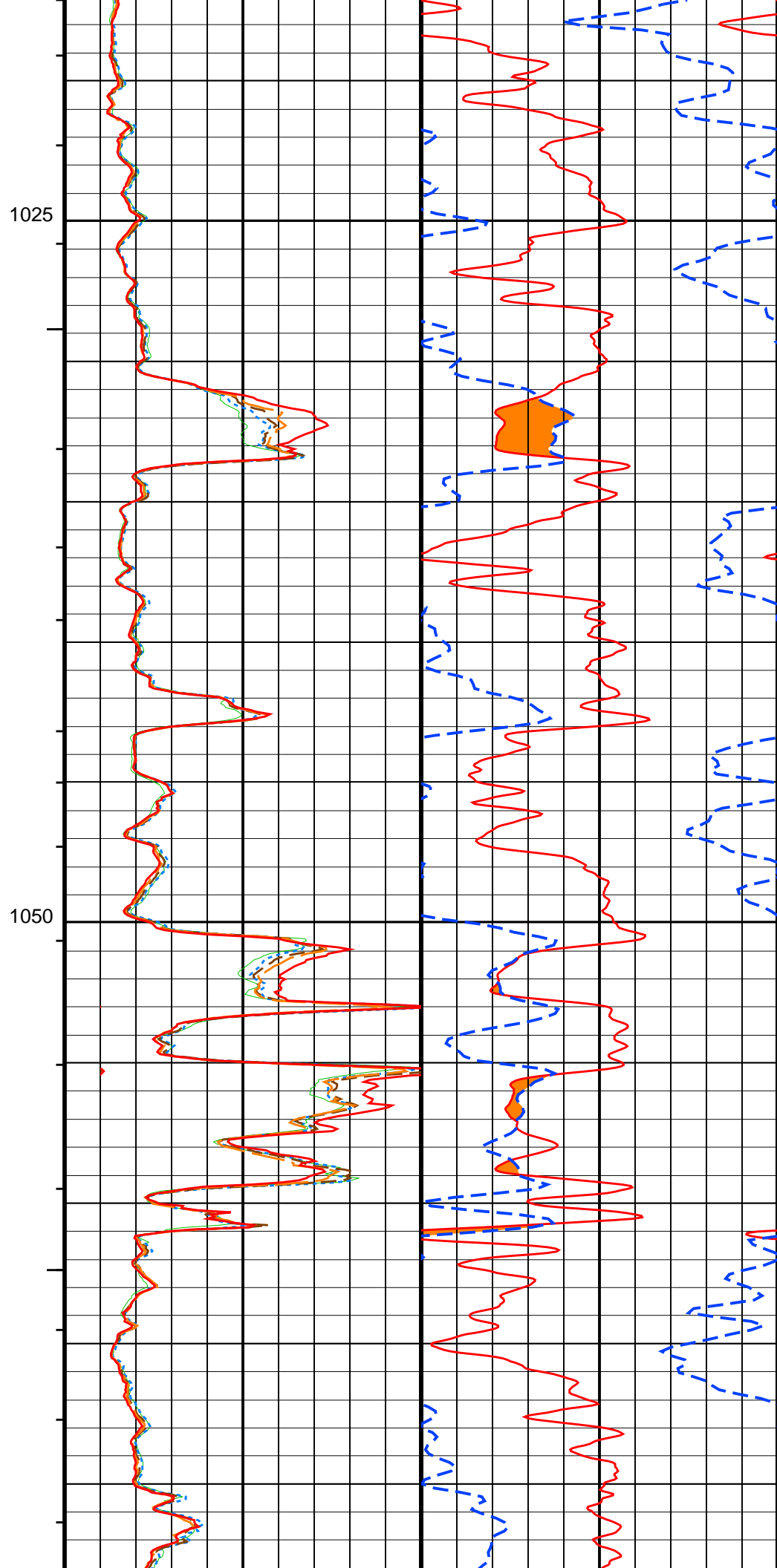
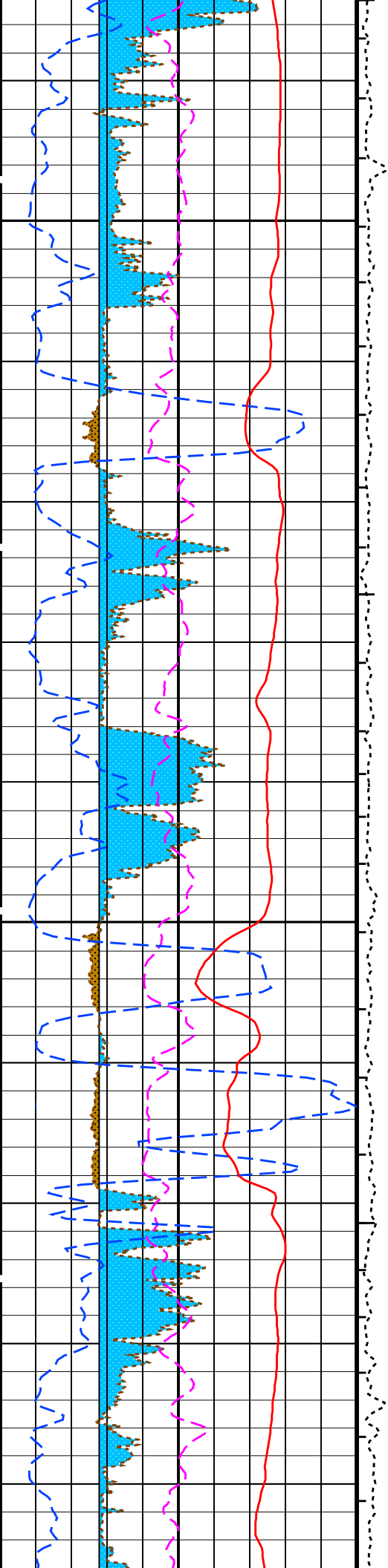




925

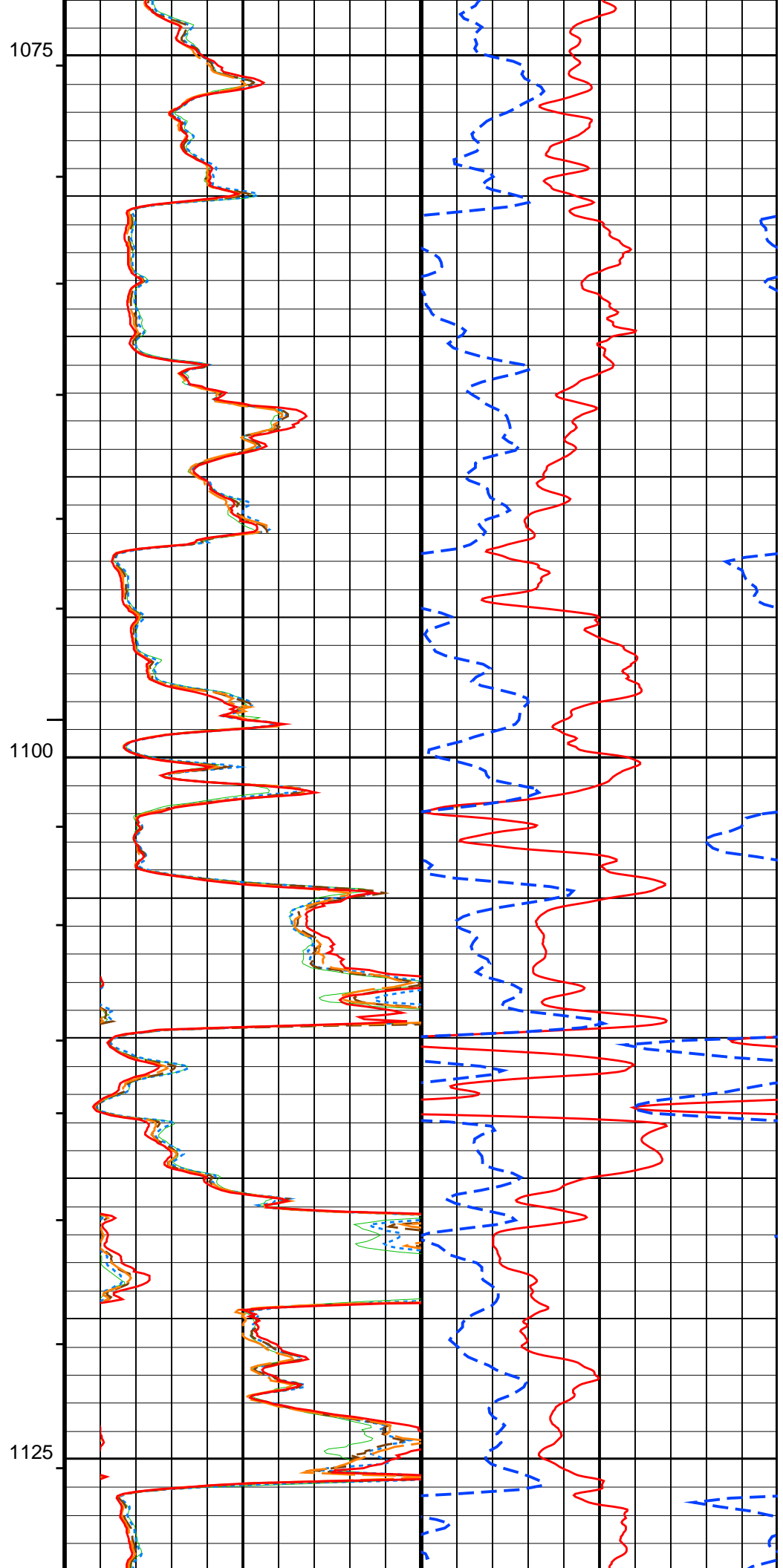
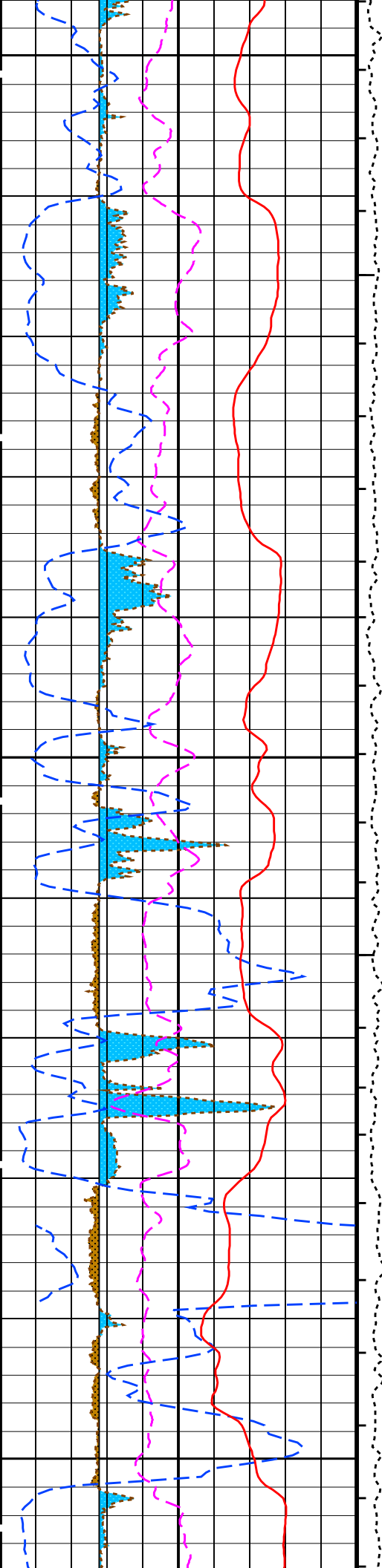
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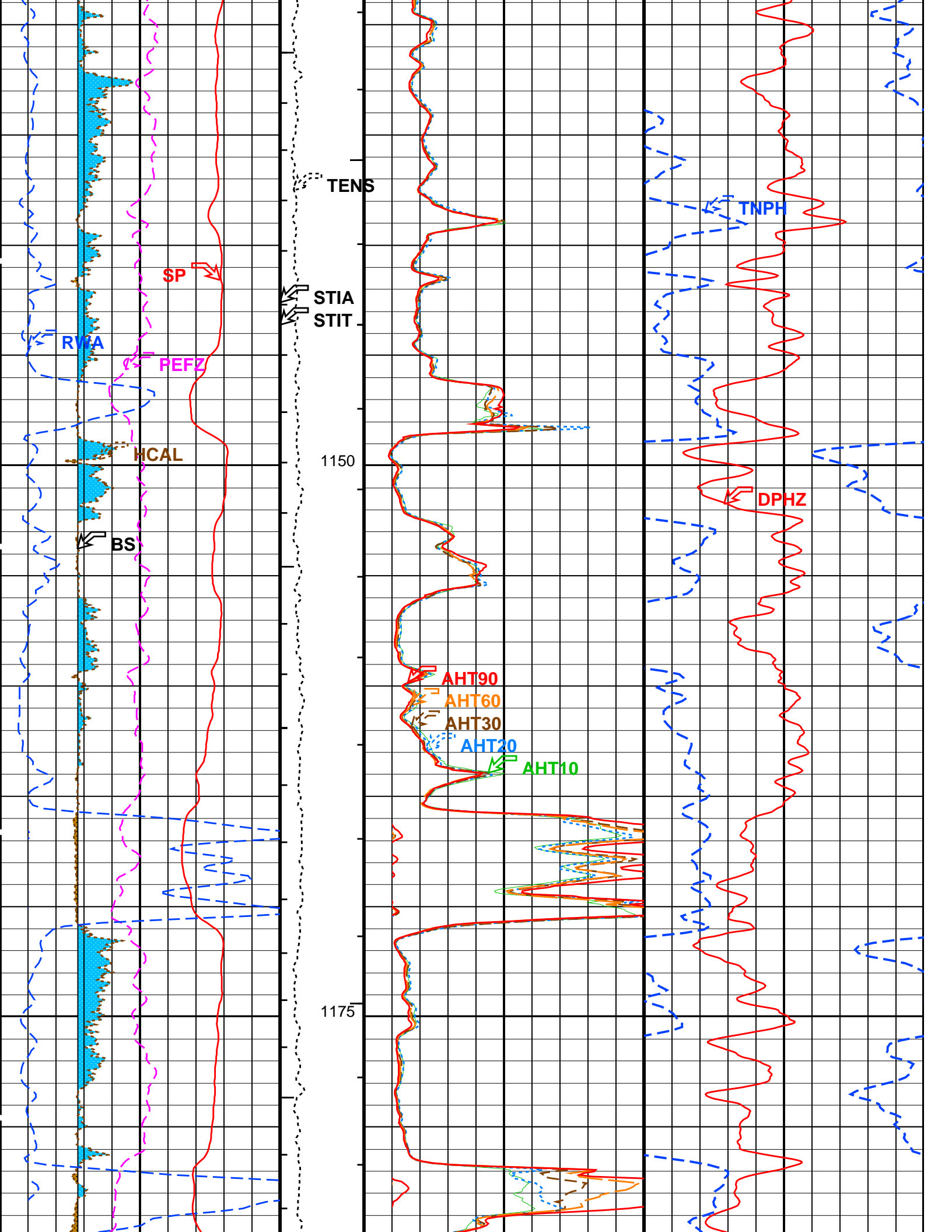


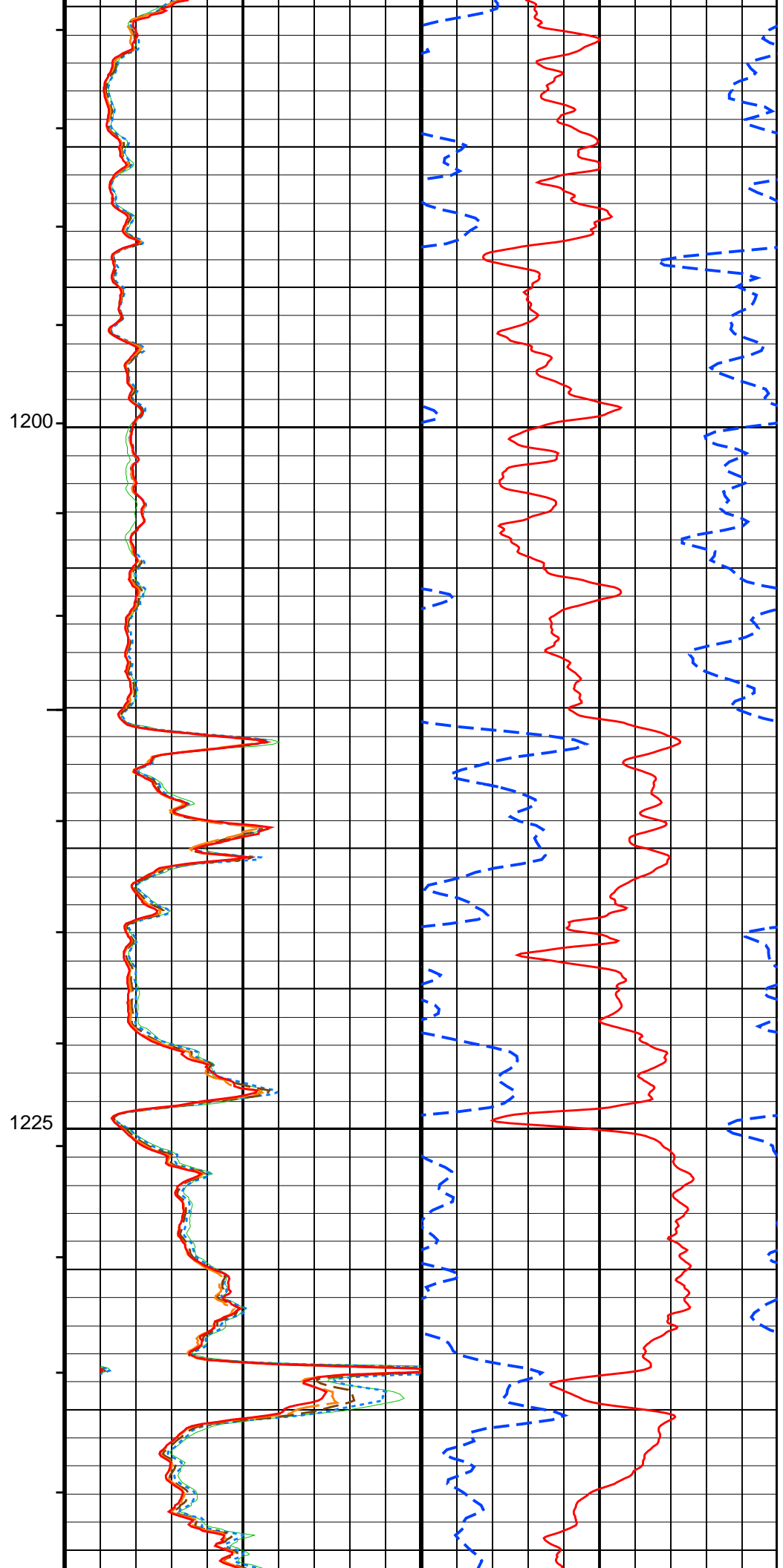
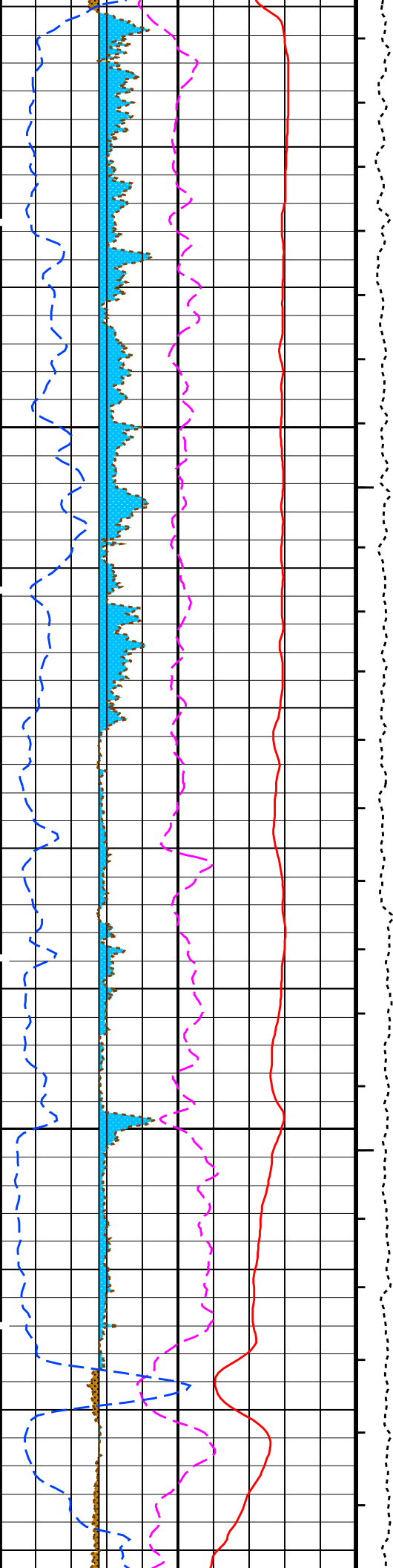


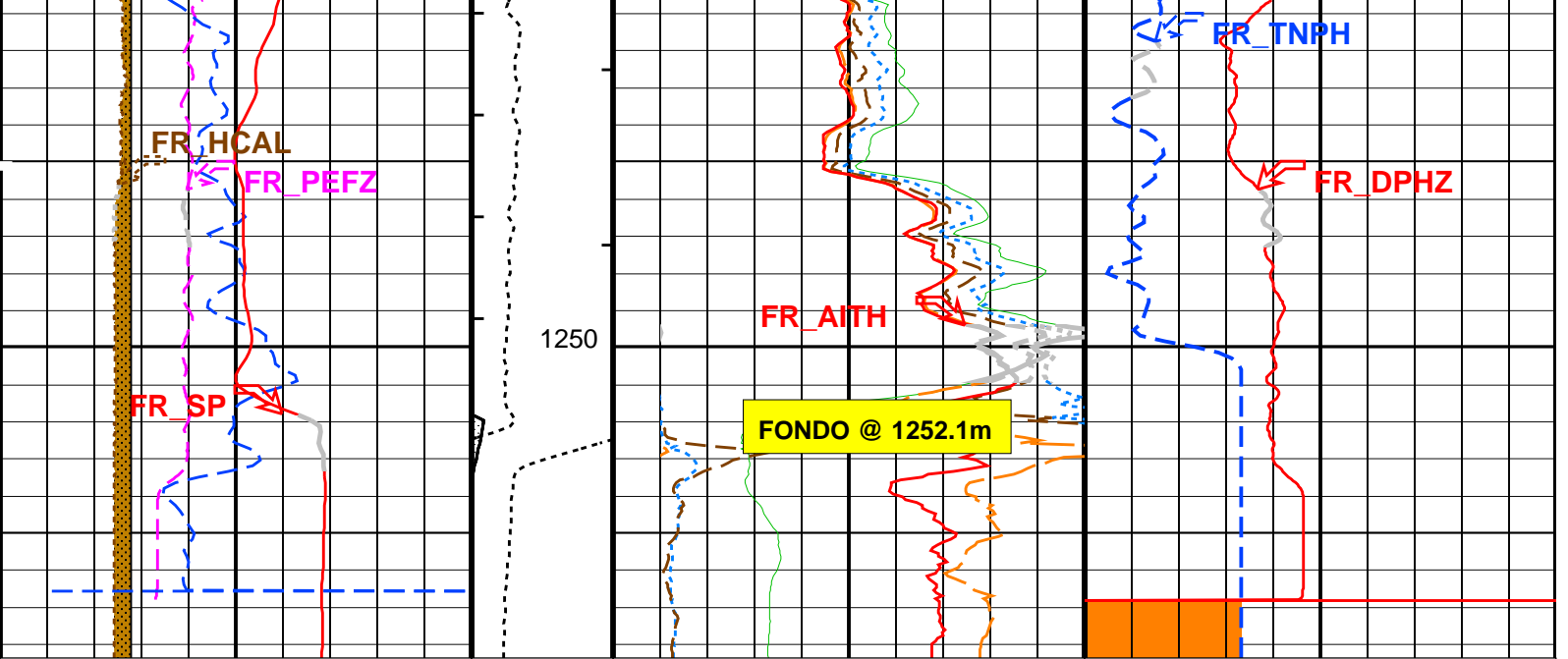
1025

1050









Bit Size (BS) (IN)	6	16	Tension (TENS) (LBF)	0	1000	AIT-H 10 Inch Investigation (AHT10) (OHMM)	0	10	Std. Res. Density Porosity (DPHZ) (V/V)	0.4	0
Caliper (HCAL) (IN)	6	16	Stuck Stretch (STIT) (M)	0	20	AIT-H 20 Inch Investigation (AHT20) (OHMM)	0	10	Env. Corr. Thermal Neutron Porosity (TNPH) (V/V)	0.4	0
Std. Res. Formation Pe (PEFZ) (-----)	0	5				AIT-H 30 Inch Investigation (AHT30) (OHMM)	0	10	Gas From DPHZ to TNPH		
RWA (RWA) (OHMM)	0	1				AIT-H 60 Inch Investigation (AHT60) (OHMM)	0	10			
SP (SP) (MV)	-80	20				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-CTS: High resolution Integrated Logging Tool-CTS		
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)	54	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	0	DEGC
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
SPDR	SP Drift	0	MV/M
SPNV	SP Next Value	-12	MV
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	0.762	M
TDD	Total Depth - Driller	1250.00	M
TDL	Total Depth - Logger	1252.10	M
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	54	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	0	DEGC
ALLRES: Basic Resistivity Transforms			
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90	
RTCO	RTCO - Rt Invasion Correction	YES	
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	
System and Miscellaneous			
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	700.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	32.30	LB/F
DFD	Drilling Fluid Density	1.19	G/C3
DO	Depth Offset for Playback	0.0	M
MST	Mud Sample Temperature	4.20	DEGC
PP	Playback Processing	OFF	
RMFS	Resistivity of Mud Filtrate Sample	1.2200	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1252.1	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: COMBINADA

Vertical Scale: 1:200

Graphics File Created: 27-Jun-2005 12:24

OP System Version: 13C0-300

MCM

HILTB-CTS

SRPC-2718-HILT

Input DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_071PUP FN:102 PRODUCER 27-Jun-2005 12:14 1258.4 M 43.3 M

Output DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_072PUP FN:103 PRODUCER 27-Jun-2005 12:24



TRAMO REPETIDO

MAXIS Field Log

Input DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_075PUP FN:106 PRODUCER 27-Jun-2005 12:36 1259.4 M 1045.3 M

Output DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_076PUP FN:107 PRODUCER 27-Jun-2005 12:39 1230.0 M 1161.0 M

Integrated Hole/Cement Volume Summary

Hole Volume = 8.65 M3
 Cement Volume = 5.48 M3 (assuming 5.50 IN casing O.D.)
 Computed from 1252.0 M to 1045.5 M using data channel(s) HCAL

OP System Version: 13C0-300 MCM

HILTB-CTS SRPC-2718-HILT

Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
SPDR	-0.21 MV/M	0 MV/M	1189.9 12:40:03
	0.23 MV/M	-0.21 MV/M	1170.9 12:40:05

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)
-80 (MV) 20

RWA (RWA)
0 (OHMM) 1

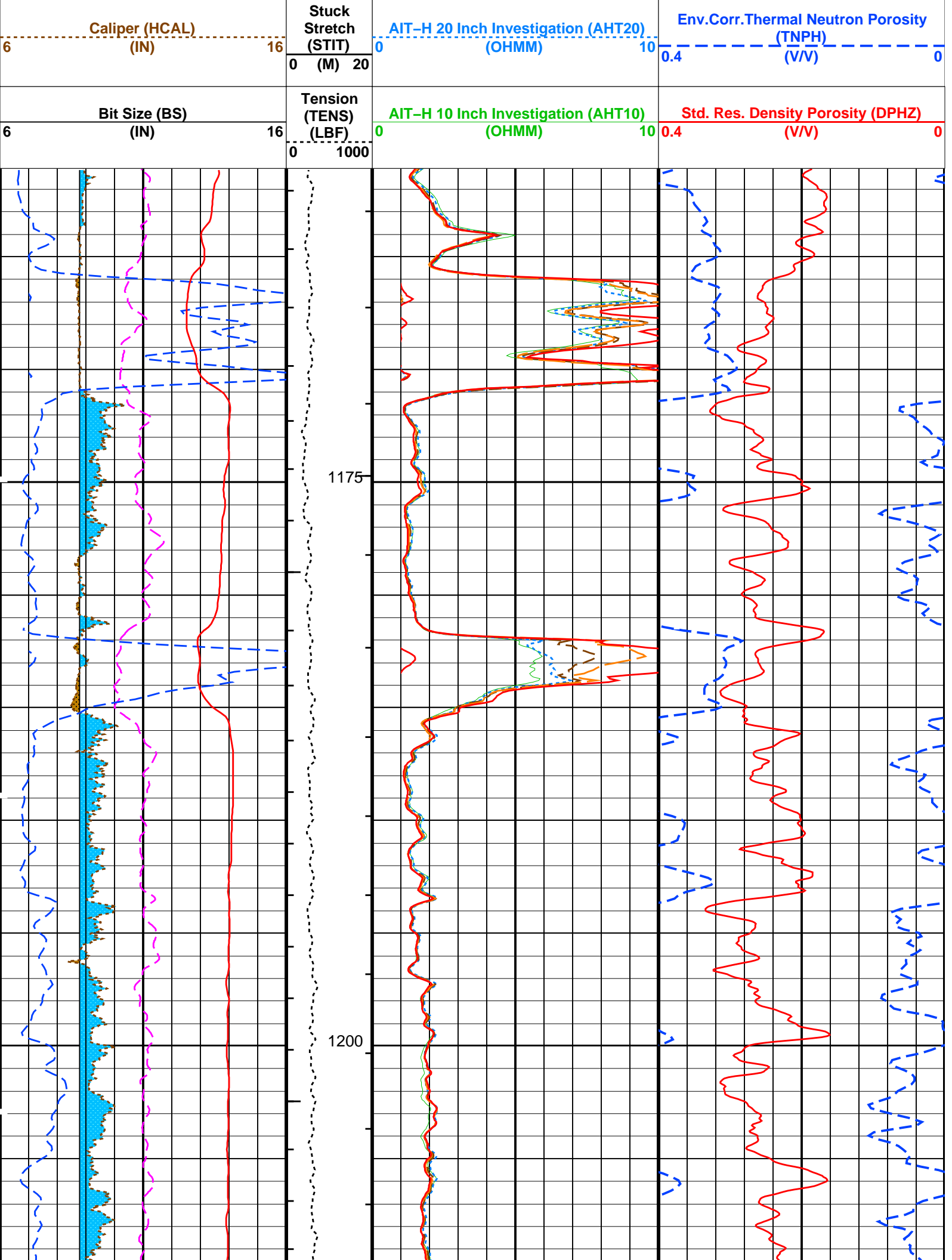
Std. Res. Formation Pe (PEFZ)
0 (----) 5

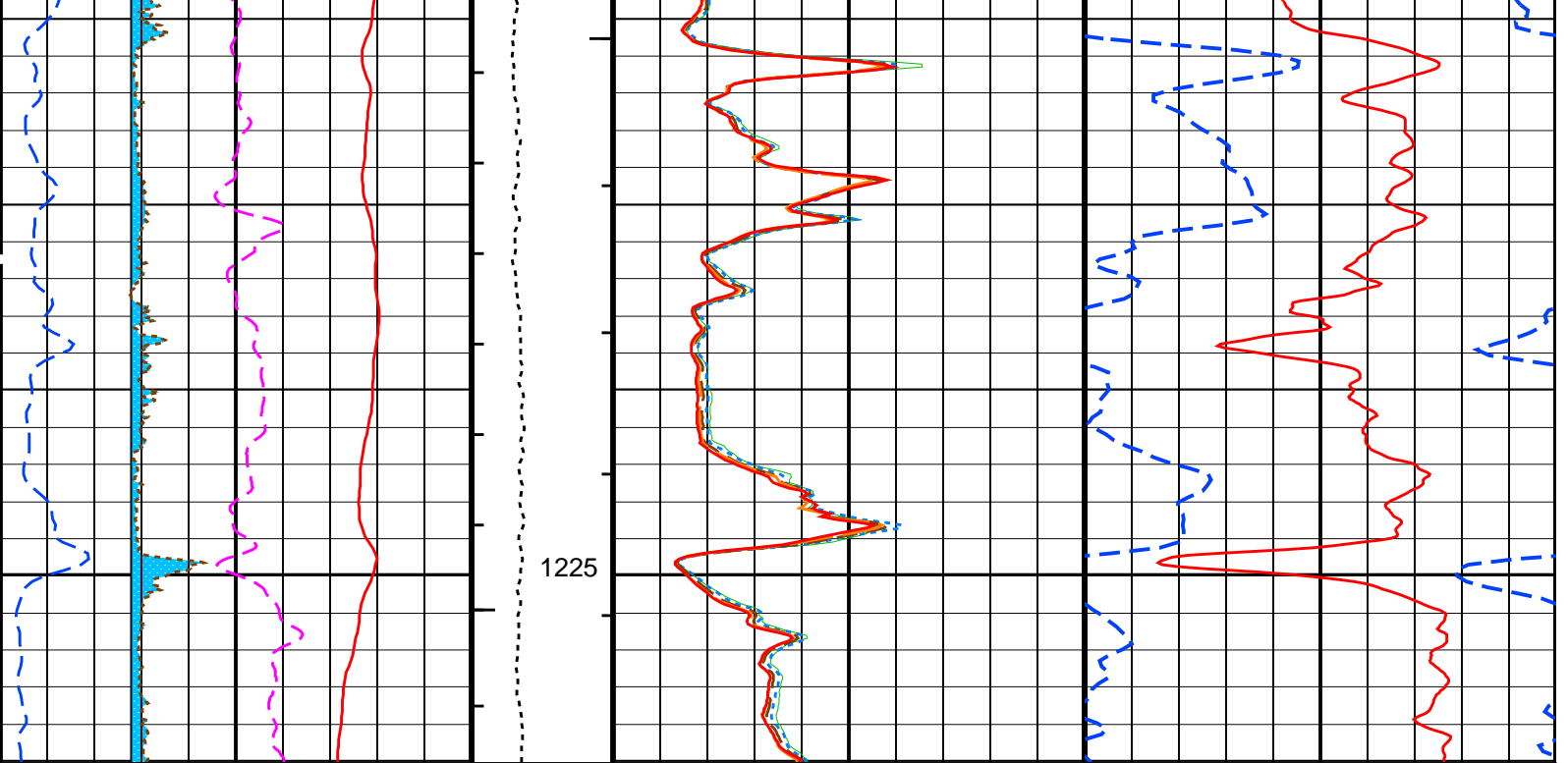
AIT-H 90 Inch Investigation (AHT90)
0 (OHMM) 10

AIT-H 60 Inch Investigation (AHT60)
0 (OHMM) 10

AIT-H 30 Inch Investigation (AHT30)
0 (OHMM) 10

Gas
From DPHZ to TNPH





Bit Size (BS) (IN)	6 16	Tension (TENS) (LBF)	0 1000	AIT-H 10 Inch Investigation (AHT10) (OHMM)	0 10	Std. Res. Density Porosity (DPHZ) (V/V)	0.4 0
Caliper (HCAL) (IN)	6 16	Stuck Stretch (STIT) (M)	0 20	AIT-H 20 Inch Investigation (AHT20) (OHMM)	0 10	Env. Corr. Thermal Neutron Porosity (TNPH) (V/V)	0.4 0
Std. Res. Formation Pe (PEFZ) (----)	0 5			AIT-H 30 Inch Investigation (AHT30) (OHMM)	0 10	Gas From DPHZ to TNPH	
RWA (RWA) (OHMM)	0 1			AIT-H 60 Inch Investigation (AHT60) (OHMM)	0 10		
SP (SP) (MV)	-80 20			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-CTS: High resolution Integrated Logging Tool-CTS		
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	No
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)	54	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	0	DEGC
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
SPDR	SP Drift	0	MV/M
SPNV	SP Next Value	-16	MV
	STI: Stuck Tool Indicator		
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	0.762	M
TDD	Total Depth - Driller	1250.00	M
TDL	Total Depth - Logger	1252.10	M
	HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	54	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	0	DEGC
	ALLRES: Basic Resistivity Transforms		
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90	
RTCO	RTCO - Rt Invasion Correction	YES	
	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	
	System and Miscellaneous		
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	700.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	32.30	LB/F
DFD	Drilling Fluid Density	1.19	G/C3
DO	Depth Offset for Playback	0.0	M
DORL	Depth Offset for Repeat Analysis	0.0	M
MST	Mud Sample Temperature	4.20	DEGC
PP	Playback Processing	OFF	
RMFS	Resistivity of Mud Filtrate Sample	1.2200	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1252.1	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

HILTB-CTS SRPC-2718-HILT

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_075PUP	FN:106	PRODUCER	27-Jun-2005 12:36	1259.4 M	1045.3 M
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_076PUP	FN:107	PRODUCER	27-Jun-2005 12:39		
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MAXIS Field Log

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_075PUP	FN:106	PRODUCER	27-Jun-2005 12:36	1259.4 M	1045.3 M
DEFAULT	AIT_TLD_MCFL_CNL_071PUP	FN:102	PRODUCER	27-Jun-2005 12:14	1258.4 M	43.3 M

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_076PUP	FN:107	PRODUCER	27-Jun-2005 12:39	1230.0 M	1161.0 M
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Integrated Hole/Cement Volume Summary

Hole Volume = 8.65 M3
 Cement Volume = 5.48 M3 (assuming 5.50 IN casing O.D.)
 Computed from 1252.0 M to 1045.5 M using data channel(s) HCAL

OP System Version: 13C0-300

MCM

HILTB-CTS SRPC-2718-HILT

Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
SPDR	-0.21 MV/M	0 MV/M	1189.9 12:40:03
	0.23 MV/M	-0.21 MV/M	1170.9 12:40:05

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

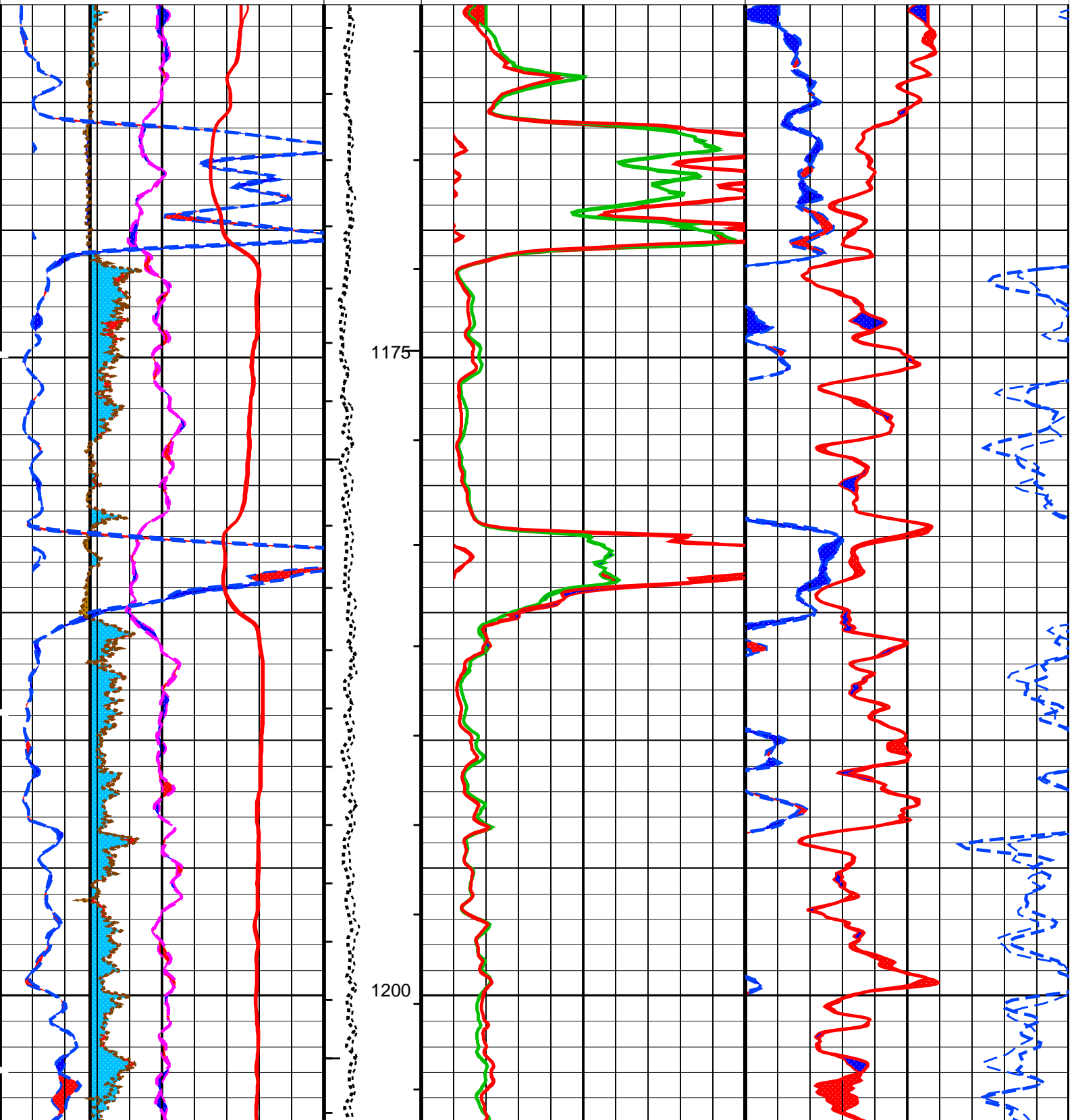
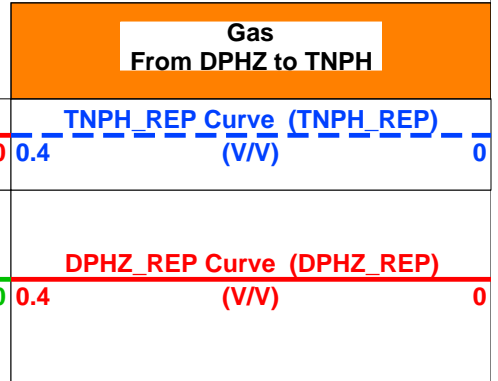
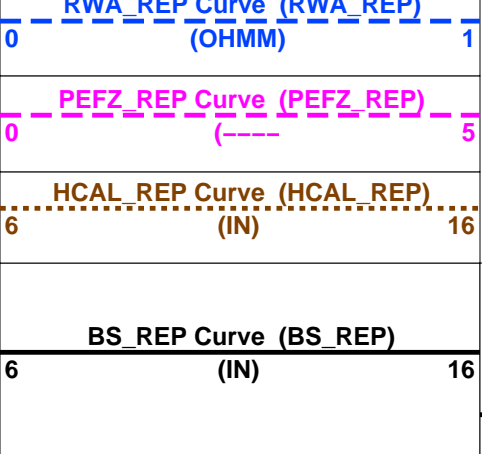
Time Mark Every 60 S

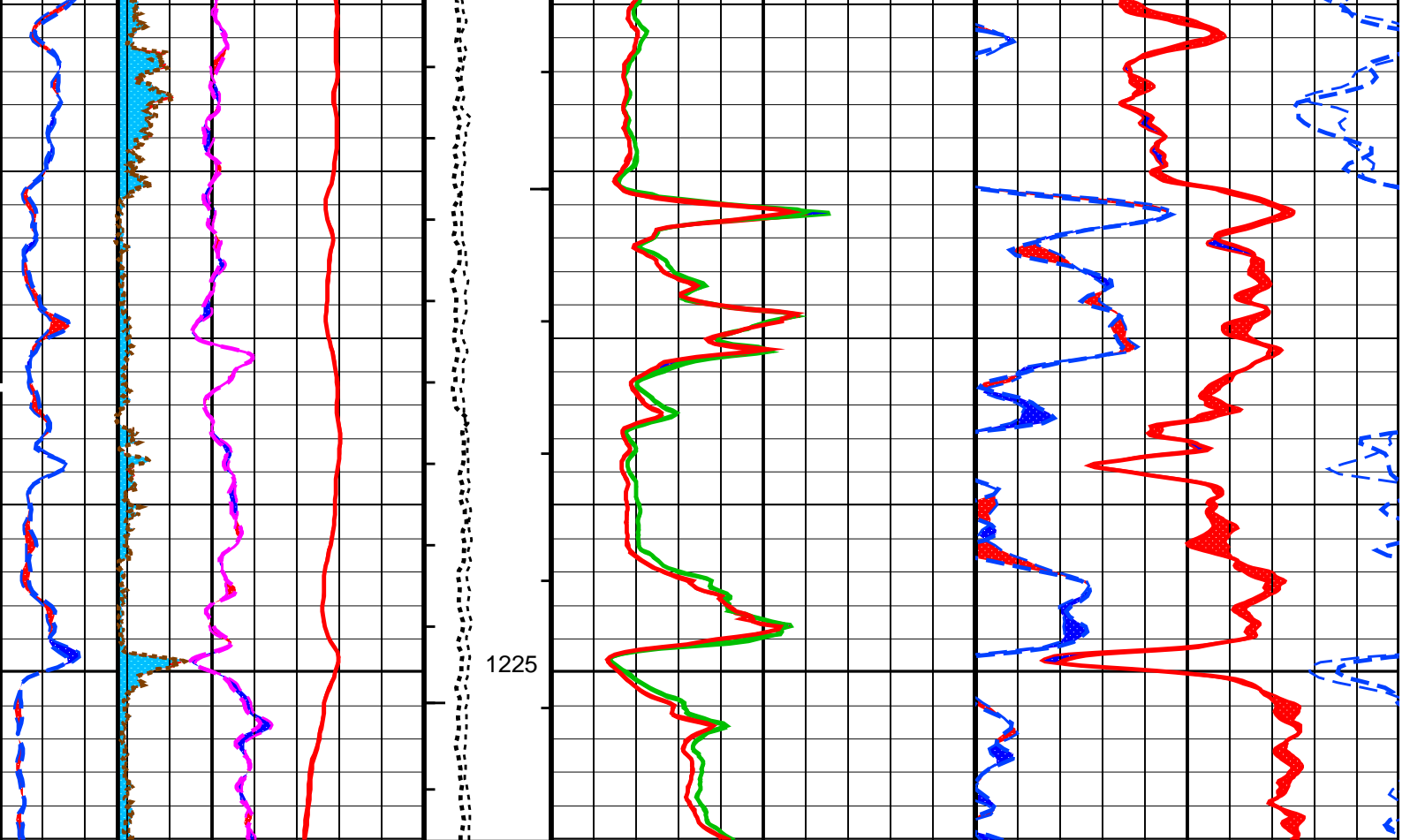
CAVERNA
From BS to HCAL

REVOQUE
From HCAL to BS

SP_REP Curve (SP_REP)
-80 (MV) 20

BWA_REP Curve (BWA_REP)





<p>BS_REP Curve (BS_REP) (IN) 6 16</p>	<p>TENS_REP Curve (TENS_REP) (LBF) 0 1000</p>	<p>AHT10_REP Curve (AHT10_REP) (OHMM) 0 10</p>	<p>DPHZ_REP Curve (DPHZ_REP) (V/V) 0.4 0</p>
<p>HCAL_REP Curve (HCAL_REP) (IN) 6 16</p>	<p>AHT90_REP Curve (AHT90_REP) (OHMM) 0 10</p>		<p>TNPH_REP Curve (TNPH_REP) (V/V) 0.4 0</p>
<p>PEFZ_REP Curve (PEFZ_REP) (---) 0 5</p>	<p style="text-align: center;">Gas From DPHZ to TNPH</p>		
<p>RWA_REP Curve (RWA_REP) (OHMM) 0 1</p>			
<p>SP_REP Curve (SP_REP) (MV) -80 20</p>			
<p style="text-align: center;">REVOQUE From HCAL to BS</p>			
<p style="text-align: center;">CAVERNA From BS to HCAL</p>			

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-CTS	High resolution Integrated Logging Tool-CTS	
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	No	
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)	54	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	0	DEGC
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
SPDR	SP Drift	0	MV/M
SPNV	SP Next Value	-16	MV
	STI: Stuck Tool Indicator		
TDL	Total Depth - Logger	1252.10	M
	HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	54	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	0	DEGC
	ALLRES: Basic Resistivity Transforms		
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90	
RTCO	RTCO - Rt Invasion Correction	YES	
	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	
	System and Miscellaneous		
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	700.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	32.30	LB/F
DFD	Drilling Fluid Density	1.19	G/C3
DO	Depth Offset for Playback	0.0	M
DORL	Depth Offset for Repeat Analysis	0.0	M
MST	Mud Sample Temperature	4.20	DEGC
PP	Playback Processing	OFF	
RMFS	Resistivity of Mud Filtrate Sample	1.2200	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1252.10	M
TWC	Temperature of Connate Water Sample	83.30	DEGC

OP System Version: 13C0-300
MCM

HILTB-CTS SRPC-2718-HILT

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_075PUP	FN:106	PRODUCER	27-Jun-2005 12:36	1259.4 M	1045.3 M
DEFAULT	AIT_TLD_MCFL_CNL_071PUP	FN:102	PRODUCER	27-Jun-2005 12:14	1258.4 M	43.3 M

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_076PUP	FN:107	PRODUCER	27-Jun-2005 12:39		
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CHEQUEO EN CAÑERIA

MAXIS Field Log

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_012LUP	FN:11	PRODUCER	26-Jun-2005 06:41	129.8 M	53.0 M
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_082PUP	FN:113	PRODUCER	27-Jun-2005 12:48	119.9 M	100.0 M
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Integrated Hole/Cement Volume Summary

Hole Volume = 0.47 M3
 Cement Volume = 0.38 M3 (assuming 5.50 IN casing O.D.)
 Computed from 119.9 M to 114.1 M using data channel(s) HCAL

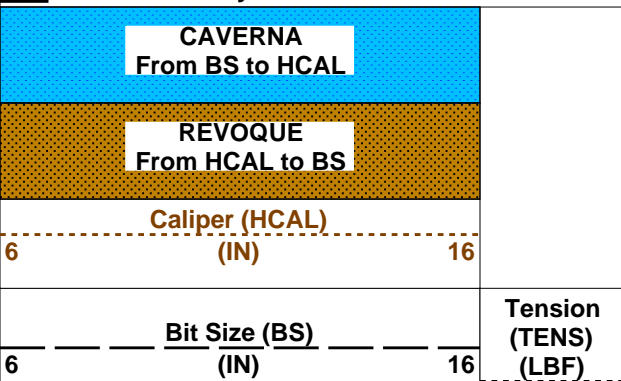
OP System Version: 13C0-300
MCM

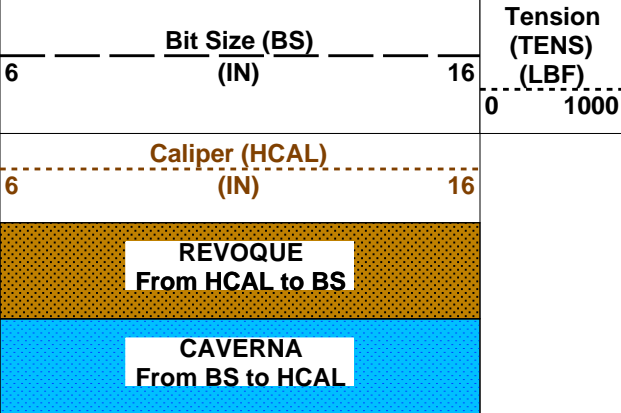
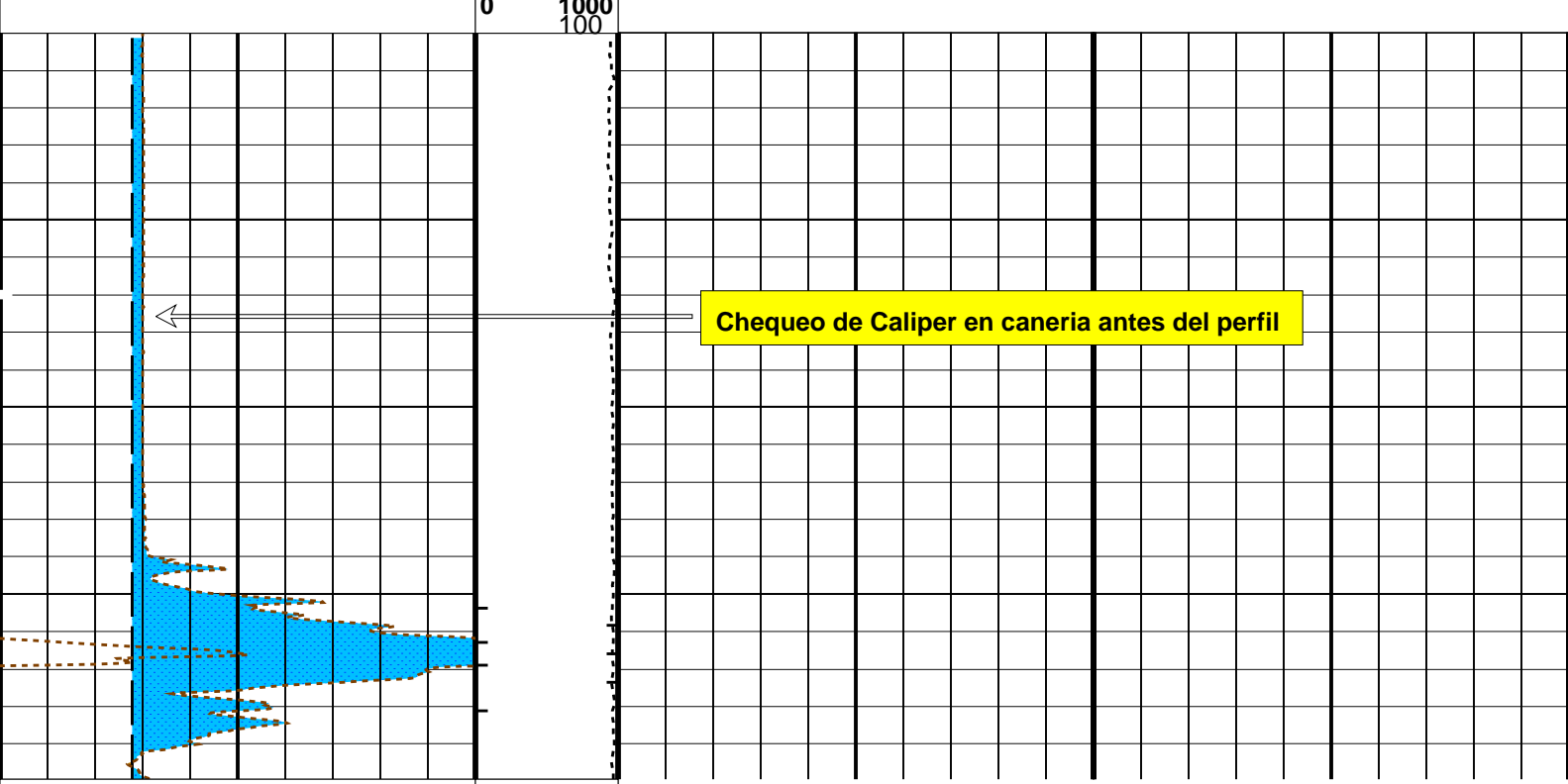
HILTB-CTS SRPC-2718-HILT

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
 - ┆ Integrated Cement Volume Major Pip Every 1 M3

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
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	0.4 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	RECOMPUTE
TD	Total Depth	1252.1 M

Format: CALIPER Vertical Scale: 1:200

Graphics File Created: 27-Jun-2005 12:48

OP System Version: 13C0-300
MCM

HILTB-CTS SRPC-2718-HILT

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_012LUP	FN:11	PRODUCER	26-Jun-2005 06:41	129.8 M	53.0 M
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Output DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_082PUP FN:113 PRODUCER 27-Jun-2005 12:48

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_012LUP	FN:11	PRODUCER	26-Jun-2005 06:41	129.8 M	53.0 M
DEFAULT	AIT_TLD_MCFL_CNL_071PUP	FN:102	PRODUCER	27-Jun-2005 12:14	1258.4 M	43.3 M

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_082PUP	FN:113	PRODUCER	27-Jun-2005 12:48	119.9 M	100.0 M
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Integrated Hole/Cement Volume Summary

Hole Volume = 0.47 M3
 Cement Volume = 0.38 M3 (assuming 5.50 IN casing O.D.)
 Computed from 119.9 M to 114.1 M using data channel(s) HCAL

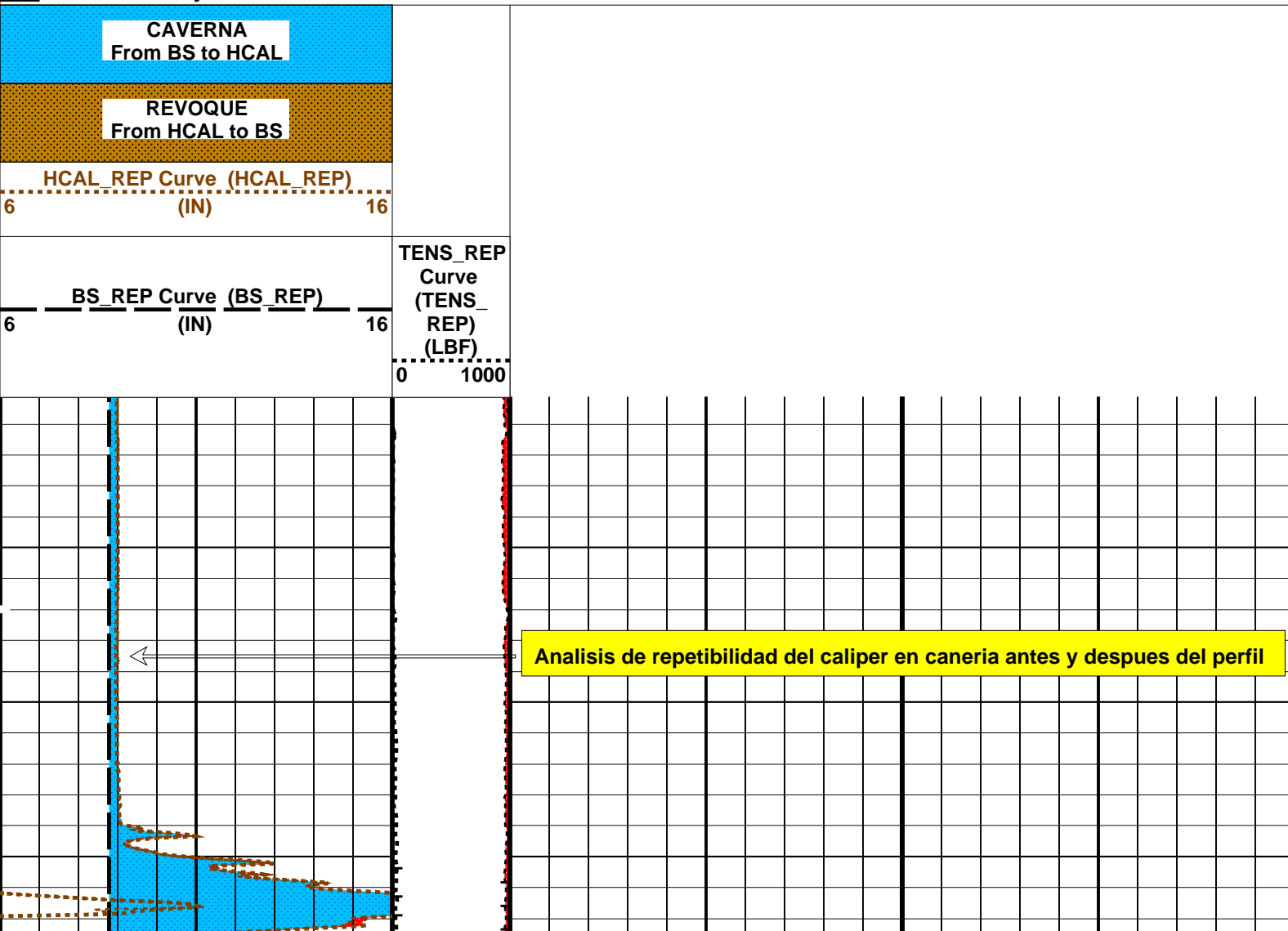
OP System Version: 13C0-300 MCM

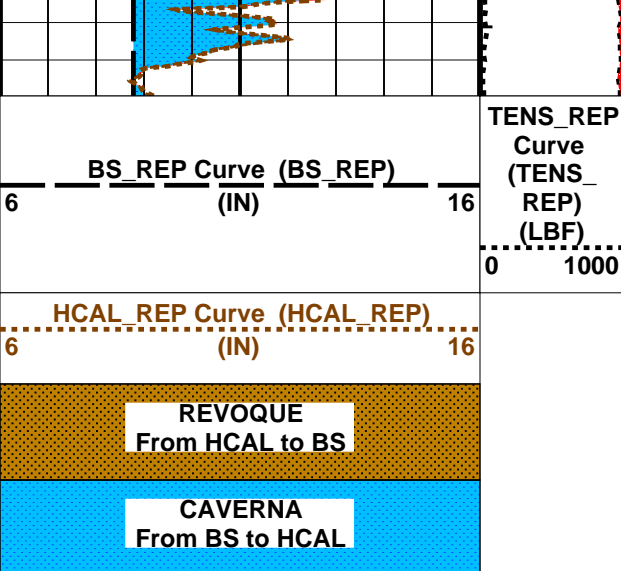
HILTB-CTS SRPC-2718-HILT

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





TENS_REP
Curve
(TENS_
REP)
(LBF)
0 1000

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
	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	0.4 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	RECOMPUTE
TD	Total Depth	1252.1 M

Format: CALIPER_REP Vertical Scale: 1:200 Graphics File Created: 27-Jun-2005 12:48

OP System Version: 13C0-300
MCM

HILTB-CTS SRPC-2718-HILT

Input DLIS Files

DLIS Name	File Name	FN	Producer	Date	Size	Volume
DEFAULT	AIT_TLD_MCFL_CNL_012LUP	FN:11	PRODUCER	26-Jun-2005 06:41	129.8 M	53.0 M
DEFAULT	AIT_TLD_MCFL_CNL_071PUP	FN:102	PRODUCER	27-Jun-2005 12:14	1258.4 M	43.3 M

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_082PUP	FN:113	PRODUCER	27-Jun-2005 12:48
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CALIBRACIONES

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
High resolution Integrated Logging Tool-CTS Wellsite Calibration – Electronics Calibration Check – Thru Cal Mag. & Phase							
Master: 15-Jun-2005 13:54 Before: 26-Jun-2005 7:24							
Thru Cal Magnitude – 0	0	0.6250	0.6297	N/A	N/A	N/A	V
Thru Cal Magnitude – 1	0	1.282	1.291	N/A	N/A	N/A	V
Thru Cal Magnitude – 2	0	0.6353	0.6402	N/A	N/A	N/A	V
Thru Cal Magnitude – 3	0	0.7185	0.7239	N/A	N/A	N/A	V
Thru Cal Magnitude – 4	0	1.344	1.354	N/A	N/A	N/A	V
Thru Cal Magnitude – 5	0	1.942	1.957	N/A	N/A	N/A	V
Thru Cal Magnitude – 6	0	1.939	1.953	N/A	N/A	N/A	V
Thru Cal Magnitude – 7	0	1.374	1.386	N/A	N/A	N/A	V
Phase – 0	0	63.02	63.82	N/A	N/A	N/A	DEG
Phase – 1	0	62.02	62.83	N/A	N/A	N/A	DEG
Phase – 2	0	57.87	58.68	N/A	N/A	N/A	DEG
Phase – 3	0	57.00	57.81	N/A	N/A	N/A	DEG
Phase – 4	0	50.11	50.93	N/A	N/A	N/A	DEG
Phase – 5	0	48.07	48.89	N/A	N/A	N/A	DEG
Phase – 6	0	48.09	48.92	N/A	N/A	N/A	DEG
Phase – 7	0	43.46	44.34	N/A	N/A	N/A	DEG
High resolution Integrated Logging Tool-CTS Wellsite Calibration – Electronics Calibration Check – Auxilliary							
Master: 15-Jun-2005 13:54 Before: 26-Jun-2005 7:24							
Array Induction SPA Plus	990.5	990.5	991.2	N/A	N/A	N/A	MV
Array Induction SPA Zero	0	-0.2366	-0.2160	N/A	N/A	N/A	MV
Array Induction Temperature PI	0.9150	0.9172	0.9179	N/A	N/A	N/A	V
Array Induction Temperature Ze	0	-0.0002293	-0.0002093	N/A	N/A	N/A	V
High resolution Integrated Logging Tool-CTS Wellsite Calibration – Test Loop Gain Correction							
Master: 15-Jun-2005 13:54							
Test Loop Gain Magnitude – 0	0	1.012	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	1.012	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	0.9963	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 5	0	1.006	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 6	0	1.016	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 7	0	1.027	N/A	N/A	N/A	N/A	V
Phase – 0	0	0.4956	N/A	N/A	N/A	N/A	DEG
Phase – 1	0	-0.6404	N/A	N/A	N/A	N/A	DEG
Phase – 2	0	-0.05543	N/A	N/A	N/A	N/A	DEG
Phase – 3	0	0.1479	N/A	N/A	N/A	N/A	DEG
Phase – 4	0	0.01085	N/A	N/A	N/A	N/A	DEG
Phase – 5	0	-0.1539	N/A	N/A	N/A	N/A	DEG
Phase – 6	0	0.1657	N/A	N/A	N/A	N/A	DEG
Phase – 7	0	-0.3211	N/A	N/A	N/A	N/A	DEG
High resolution Integrated Logging Tool-CTS Wellsite Calibration – Sonde Error Correction							
Master: 15-Jun-2005 13:54							
R Sonde Error Correction – 0	0	-123.1	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 1	0	159.9	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 2	0	110.2	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 3	0	54.67	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 4	0	26.76	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 5	0	11.12	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 6	0	9.035	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 7	0	-0.7777	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 0	0	106.6	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 1	0	-147.3	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 2	0	-106.5	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 3	0	108.2	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 4	0	2.783	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 5	0	10.38	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 6	0	1.634	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction – 7	0	1.304	N/A	N/A	N/A	N/A	MM/M
High resolution Integrated Logging Tool-CTS Wellsite Calibration – Mud Gain Correction							
Master: 15-Jun-2005 13:54							
Coarse – Mag, Real, Imag – 0	0	1.011	N/A	N/A	N/A	N/A	N/A
Coarse – Mag, Real, Imag – 1	0	1.011	N/A	N/A	N/A	N/A	N/A
Coarse – Mag, Real, Imag – 2	0	1.011	N/A	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 0	0	1.004	N/A	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 1	0	1.004	N/A	N/A	N/A	N/A	N/A
Fine – Mag, Real, Imag – 2	0	1.004	N/A	N/A	N/A	N/A	N/A
High resolution Integrated Logging Tool-CTS Wellsite Calibration – Stab Measurement Summary							
Before: 26-Jun-2005 7:29							
BS Window Ratio	0.7379	N/A	0.7337	N/A	N/A	N/A	N/A

BS Window Sum	11450	N/A	11480	N/A	N/A	N/A	CPS
SS Window Ratio	0.4801	N/A	0.4813	N/A	N/A	N/A	
SS Window Sum	11360	N/A	11330	N/A	N/A	N/A	CPS
LS Window Ratio	0.2946	N/A	0.2981	N/A	N/A	N/A	
LS Window Sum	1202	N/A	1201	N/A	N/A	N/A	CPS

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

Before: 26–Jun–2005 7:29

BS PM High Voltage (Command)	1748	N/A	1785	N/A	N/A	N/A	V
SS PM High Voltage (Command)	2176	N/A	2130	N/A	N/A	N/A	V
LS PM High Voltage (Command)	1634	N/A	1622	N/A	N/A	N/A	V

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

Before: 26–Jun–2005 7:29

BS Crystal Resolution	12.45	N/A	12.40	N/A	N/A	N/A	%
SS Crystal Resolution	11.62	N/A	11.07	N/A	N/A	N/A	%
LS Crystal Resolution	9.432	N/A	9.488	N/A	N/A	N/A	%

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

Before: 26–Jun–2005 7:30

Raw B0 Resistivity	3875	N/A	3845	N/A	N/A	N/A	OHMM
Raw B1 Resistivity	3830	N/A	3831	N/A	N/A	N/A	OHMM
Raw B2 Resistivity	3830	N/A	3840	N/A	N/A	N/A	OHMM

High resolution Integrated Logging Tool–CTS Wellsite Calibration – HILT Caliper Calibration

Before: 26–Jun–2005 7:25

HILT Caliper Zero Measurement	8.000	N/A	7.890	N/A	N/A	N/A	IN
HILT Caliper Plus Measurement	12.00	N/A	12.27	N/A	N/A	N/A	IN

High resolution Integrated Logging Tool–CTS Wellsite Calibration – Detector Calibration

Before: 26–Jun–2005 7:23

Gamma Ray Background	30.00	N/A	61.09	N/A	N/A	N/A	GAPI
Gamma Ray (Jig – Bkg)	159.3	N/A	159.3	N/A	N/A	14.48	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

High resolution Integrated Logging Tool–CTS Wellsite Calibration – Zero Measurement

Master: 6–Apr–2005 20:01 Before: 26–Jun–2005 7:24

CNTC Background	31.86	31.86	32.06	N/A	N/A	4.779	CPS
CFTC Background	32.87	32.87	33.11	N/A	N/A	4.931	CPS

High resolution Integrated Logging Tool–CTS Wellsite Calibration – Ratio Measurement

Master: 6–Apr–2005 20:01

Thermal Near Corr. (Tank)	6031	5394	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2793	2313	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.332	N/A	N/A	N/A	N/A	

High resolution Integrated Logging Tool–CTS Wellsite Calibration – Accelerometer Calibration

Before: 26–Jun–2005 7:27

Z–Axis Acceleration	9.810	N/A	9.798	N/A	N/A	N/A	M/S2
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High resolution Integrated Logging Tool–CTS Master Calibration – Inversion results

Master: 12–Jun–2005 12:57

Rho Aluminum	2.596	2.594	--	--	--	--	G/C3
Rho Magnesium	1.686	1.687	--	--	--	--	G/C3
Pe Aluminum	2.570	2.563	--	--	--	--	
Pe Magnesium	2.650	2.633	--	--	--	--	

High resolution Integrated Logging Tool–CTS Master Calibration – Deviation Summary

Master: 12–Jun–2005 12:57

BS Average Deviation	0	0.5357	--	--	--	--	%
BS Max Deviation	0	1.283	--	--	--	--	%
SS Average Deviation	0	0.5178	--	--	--	--	%
SS Max Deviation	0	1.315	--	--	--	--	%
LS Average Deviation	0	0.8568	--	--	--	--	%
LS Max Deviation	0	1.811	--	--	--	--	%

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 3.363 IN.
 NSR–F serial number 1089

High resolution Integrated Logging Tool-CTS / Equipment Identification

Primary Equipment:

Array Induction Tool – H

Rm/SP Bottom Nose

Array Induction Sonde

HILT high-Resolution Mechanical Sonde

HILT Rxo Gamma-ray Device

HILT Micro Cylindrically Focused Log Dev

GR Logging Source

HILT High Res. Control Cartridge

AIT – H

AHRM – A

AHIS – BA

HRMS – B

HRGD – B

MCFL –

GLS – VJ

HRCC – B

379

704

1886

3766

704

Auxiliary Equipment:

High resolution Integrated Logging Tool-CTS Wellsite Calibration							
Electronics Calibration Check – Thru Cal Mag. & Phase							
Idx	Phase	Value	Thru Cal Magnitude V	Nominal	Value	Phase DEG	Nominal
0	Master	0.6250		0.6050	63.02		71.00
	Before	0.6297			63.82		
1	Master	1.282		1.270	62.02		70.00
	Before	1.291			62.83		
2	Master	0.6353		0.6230	57.87		66.00
	Before	0.6402			58.68		
3	Master	0.7185		0.7040	57.00		65.00
	Before	0.7239			57.81		
4	Master	1.344		1.337	50.11		59.00
	Before	1.354			50.93		
5	Master	1.942		1.955	48.07		57.00
	Before	1.957			48.89		
6	Master	1.939		1.955	48.09		57.00
	Before	1.953			48.92		
7	Master	1.374		1.415	43.46		53.00
	Before	1.386			44.34		
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom -60.00 (Minimum)	(Nominal)	Nom + 60.00 (Maximum)
Master: 15-Jun-2005 13:54				Before: 26-Jun-2005 7:24			

High resolution Integrated Logging Tool-CTS Wellsite Calibration						
Electronics Calibration Check – Auxilliary						
Phase	Array Induction SPA Plus MV	Value	Phase	Array Induction SPA Zero MV	Value	
Master		990.5	Master		-0.2366	
Before		991.2	Before		-0.2160	
		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		0.9172	Master		-0.0002293	
Before		0.9179	Before		-0.0002093	
		0.8700 (Minimum)	0.9150 (Nominal)	0.9600 (Maximum)		
				-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)
Master: 15-Jun-2005 13:54			Before: 26-Jun-2005 7:24			

High resolution Integrated Logging Tool-CTS Wellsite Calibration						
Test Loop Gain Correction						
Idx	Value	Test Loop Gain Magnitude V	Value	Phase DEG		
0	1.012		0.4956			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		
				-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
1	1.014		-0.6404			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		
				-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)

		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
2	1.012					-0.05543		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
3	1.014					0.1479		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
4	0.9963					0.01085		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
5	1.006					-0.1539		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
6	1.016					0.1657		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
7	1.027					-0.3211		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)

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High resolution Integrated Logging Tool-CTS Wellsite Calibration								
Sonde Error Correction								
Idx	Value	R Sonde Error Correction MM/M			Value	X Sonde Error Correction MM/M		
0	-123.1				106.6			
		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)		-2250 (Minimum)	0 (Nominal)	2250 (Maximum)
1	159.9				-147.3			
		114.0 (Minimum)	159.0 (Nominal)	204.0 (Maximum)		-625.0 (Minimum)	0 (Nominal)	625.0 (Maximum)
2	110.2				-106.5			
		66.00 (Minimum)	111.0 (Nominal)	156.0 (Maximum)		-350.0 (Minimum)	0 (Nominal)	350.0 (Maximum)
3	54.67				108.2			
		39.00 (Minimum)	64.00 (Nominal)	89.00 (Maximum)		-250.0 (Minimum)	0 (Nominal)	250.0 (Maximum)
4	26.76				2.783			
		15.00 (Minimum)	25.00 (Nominal)	35.00 (Maximum)		-63.00 (Minimum)	0 (Nominal)	63.00 (Maximum)
5	11.12				10.38			
		4.000 (Minimum)	14.00 (Nominal)	24.00 (Maximum)		-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)
6	9.035				1.634			
		5.000 (Minimum)	10.00 (Nominal)	15.00 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)
7	-0.7777				1.304			
		-5.000 (Minimum)	0 (Nominal)	5.000 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)

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High resolution Integrated Logging Tool-CTS Wellsite Calibration								
Mud Gain Correction								
Idx	Value	Coarse - Mag, Real, Imag			Value	Fine - Mag, Real, Imag		
0	1.011				1.004			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
1	1.011				1.004			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
2	1.011				1.004			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)

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Calibration Summary

BS Window Ratio			Value	SS Window Ratio			Value	LS Window Ratio			Value
Before		0.7337	Before		0.4813	Before		0.2981			
0.7010 (Minimum)	0.7379 (Nominal)	0.7748 (Maximum)		0.4561 (Minimum)	0.4801 (Nominal)	0.5041 (Maximum)		0.2798 (Minimum)	0.2946 (Nominal)	0.3093 (Maximum)	
BS Window Sum CPS			Value	SS Window Sum CPS			Value	LS Window Sum CPS			Value
Before		11480	Before		11330	Before		1201			
10880 (Minimum)	11450 (Nominal)	12020 (Maximum)		10790 (Minimum)	11360 (Nominal)	11930 (Maximum)		1142 (Minimum)	1202 (Nominal)	1262 (Maximum)	

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High resolution Integrated Logging Tool-CTS Wellsite Calibration

Photo-multiplier High Voltages Calibrations

BS PM High Voltage (Command) V			Value	SS PM High Voltage (Command) V			Value	LS PM High Voltage (Command) V			Value
Before		1785	Before		2130	Before		1622			
1648 (Minimum)	1748 (Nominal)	1848 (Maximum)		2076 (Minimum)	2176 (Nominal)	2276 (Maximum)		1534 (Minimum)	1634 (Nominal)	1734 (Maximum)	

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High resolution Integrated Logging Tool-CTS Wellsite Calibration

Crystal Quality Resolutions Calibration

BS Crystal Resolution %			Value	SS Crystal Resolution %			Value	LS Crystal Resolution %			Value
Before		12.40	Before		11.07	Before		9.488			
11.45 (Minimum)	12.45 (Nominal)	13.45 (Maximum)		10.62 (Minimum)	11.62 (Nominal)	12.62 (Maximum)		8.432 (Minimum)	9.432 (Nominal)	10.43 (Maximum)	

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High resolution Integrated Logging Tool-CTS Wellsite Calibration

MCFL Calibration

Raw B0 Resistivity OHMM			Value	Raw B1 Resistivity OHMM			Value	Raw B2 Resistivity OHMM			Value
Before		3845	Before		3831	Before		3840			
3565 (Minimum)	3875 (Nominal)	4185 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)		3524 (Minimum)	3830 (Nominal)	4136 (Maximum)	

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High resolution Integrated Logging Tool-CTS Wellsite Calibration

HILT Caliper Calibration

HILT Caliper Zero Measurement IN			Value	HILT Caliper Plus Measurement IN			Value
Before		7.890	Before		12.27		
6.000 (Minimum)	8.000 (Nominal)	10.00 (Maximum)		9.000 (Minimum)	12.00 (Nominal)	15.00 (Maximum)	

Before: 26-Jun-2005 7:25

High resolution Integrated Logging Tool-CTS Wellsite Calibration

Detector Calibration

Gamma Ray Background GAPI			Value	Gamma Ray (Jig - Bkg) GAPI			Value	Gamma Ray (Calibrated) GAPI			Value
Before		61.09	Before		159.3	Before		165.0			
0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		144.8 (Minimum)	159.3 (Nominal)	173.7 (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)	

Before: 26-Jun-2005 7:23

High resolution Integrated Logging Tool-CTS Wellsite Calibration

Zero Measurement

CNTC Background CPS			Value	CFTC Background CPS			Value
Master		31.86	Master		32.87		
Before		32.06	Before		33.11		
5.000 (Minimum)	31.86 (Nominal)	40.00 (Maximum)		5.000 (Minimum)	32.87 (Nominal)	40.00 (Maximum)	

Master: 6-Apr-2005 20:01

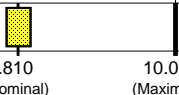
Before: 26-Jun-2005 7:24

High resolution Integrated Logging Tool-CTS Wellsite Calibration









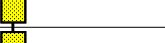
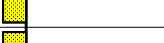
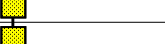
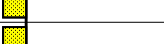




Ratio Measurement

Thermal Near Corr. (Tank) CPS			Value	Thermal Far Corr. (Tank) CPS			Value	CNTC/CFTC (Tank)			Value
Master		5394	Master		2313	Master		2.332			
5000 (Minimum)	6031 (Nominal)	7200 (Maximum)		2075 (Minimum)	2793 (Nominal)	3125 (Maximum)		2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)	

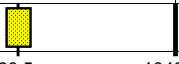
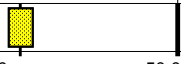


Master: 6-Apr-2005 20:01

High resolution Integrated Logging Tool-CTS Wellsite Calibration			
Accelerometer Calibration			
Phase	Z-Axis Acceleration M/S2		Value
Before			9.798
	9.610 (Minimum)	9.810 (Nominal)	10.01 (Maximum)















Before: 26-Jun-2005 7:27

High resolution Integrated Logging Tool-CTS Master Calibration									
Electronics Calibration Check - Thru Cal Mag. & Phase									
Idx	Phase	Value	Thru Cal Magnitude V		Nominal	Value	Phase DEG	Nominal	
0	Master	0.6250			0.6050	63.02		71.00	
1	Master	1.282			1.270	62.02		70.00	
2	Master	0.6353			0.6230	57.87		66.00	
3	Master	0.7185			0.7040	57.00		65.00	
4	Master	1.344			1.337	50.11		59.00	
5	Master	1.942			1.955	48.07		57.00	
6	Master	1.939			1.955	48.09		57.00	
7	Master	1.374			1.415	43.46		53.00	
			60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)		Nom -60.00 (Minimum)	(Nominal)	Nom + 60.00 (Maximum)

Master: 15-Jun-2005 13:54

High resolution Integrated Logging Tool-CTS Master Calibration							
Electronics Calibration Check - Auxilliary							
Phase	Array Induction SPA Plus MV		Value	Phase	Array Induction SPA Zero MV		Value
Master			990.5	Master			-0.2366
	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			0.9172	Master			-0.0002293
	0.8700 (Minimum)	0.9150 (Nominal)	0.9600 (Maximum)		-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)

Master: 15-Jun-2005 13:54

High resolution Integrated Logging Tool-CTS Master Calibration								
Test Loop Gain Correction								
Idx	Value	Test Loop Gain Magnitude V			Value	Phase DEG		
0	1.012				0.4956			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
1	1.014				-0.6404			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
2	1.012				-0.05543			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
3	1.014				0.1479			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
4	0.9963				0.01085			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
5	1.006				-0.1539			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
6	1.016				0.1657			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)

Phase	BS Max Deviation %	Value	Phase	SS Max Deviation %	Value	Phase	LS Max Deviation %	Value
Master		1.283	Master		1.315	Master		1.811
	-1.600 (Minimum) 0 (Nominal) 1.600 (Maximum)			-2.500 (Minimum) 0 (Nominal) 2.500 (Maximum)			-3.500 (Minimum) 0 (Nominal) 3.500 (Maximum)	

Master: 12-Jun-2005 12:57

High resolution Integrated Logging Tool-CTS Master Calibration					
Zero Measurement					
Phase	CNTC Background CPS	Value	Phase	CFTC Background CPS	Value
Master		31.86	Master		32.87
	5.000 (Minimum) 31.86 (Nominal) 40.00 (Maximum)			5.000 (Minimum) 32.87 (Nominal) 40.00 (Maximum)	

Master: 6-Apr-2005 20:01

High resolution Integrated Logging Tool-CTS Master Calibration								
Tank Measurement								
Phase	Thermal Near Corr. (Tank) CPS	Value	Phase	Thermal Far Corr. (Tank) CPS	Value	Phase	CNTC/CFTC (Tank)	Value
Master		5394	Master		2313	Master		2.332
	5000 (Minimum) 6031 (Nominal) 7200 (Maximum)			2075 (Minimum) 2793 (Nominal) 3125 (Maximum)			2.120 (Minimum) 2.159 (Nominal) 2.540 (Maximum)	

Master: 6-Apr-2005 20:01

COMPANIA: YPF S.A. POZO: YPF.Ch.LC-668 CAMPO: LA CAROLINA PROVINCIA: CHUBUT PAIS: ARGENTINA	PRIMERA LECTURA	1249.4 m
	PROFUNDIDAD PERFIL	1252.1 m
	PROF. PERFORADOR	1250 m
	BUJE DE VASTAGO	434.61 m
	MESA ROTATIVA	434.31 m
	NIVEL TERRENO	430.06 m
COMBINADA ESCALA: 1/200		

Schlumberger

Compania: **YPF S.A.**

Pozo: **YPF.Ch.LC-668**

Campo: **LA CAROLINA**

Provincia: **CHUBUT**

País: **ARGENTINA**

CONTROL DE CEMENTO CBL VDL CNL CCL 1/200

Localidad: LA CAROLINA
 Locacion: CAS
 Pozo: YPF.Ch.LC-668
 Compania: YPF S.A.

LOCACION		Elev.:	
CAS		B.V.	434,61 m
X:4.946,409,71		N.T.	430,06 m
Y:2.571,899,61		M.R.	434,31 m
Ref. Permanente:	NIVEL DE TERRENO	Elev.:	430,06 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:4.946,409,71	Y:2.571,899,61

Fecha de Registro	30-Jun-2005
Corrida Numero	1
Prof. Perforador	1250 m
Prof. Schlumberger	1230 m
Primera Lectura	1230 m
Ultima Lectura	725 m
Tipo de Fluido en la Caneria	AGUA
Salinidad	
Densidad	1 g/cm3
Nivel del Fluido	0 m
BROCA/CANERIA/TUBERIA	
Broca	8.500 in
Desde	0 m
Hasta	114 m
Caneria / Tuberia	5.500 in
Paso	14 lbn/ft
Grado	
Desde	0 m
Hasta	1250 m
Temperaturas Maximias Medidas	63 degC
Registro en Fondo	30-Jun-2005
Unidad Numero	8116
Registrado por	D.PEROTTI
Testigo	E.GONZALEZ

DATOS PVT

	Corrida 1	Corrida 2	Corrida 3
Densidad del Crudo			
Salinidad del Agua			
Gravedad del Gas			
Bo			
Bw			
1/Bg			
Presion del Punto de Burbuja			
Temperatura del Punto de Burbuja			
GOR en Solucion			
Desviacion Maxima			
DATOS DE CEMENTACION			
Primaria/Reparacion	Primary		
Sarta de la Caneria No.			
Tipo de Cemento Primario			
Volumen			
Densidad			
Perdida de Agua			
Aditivos			
Tipo de Cemento Cola			
Volumen			
Densidad			
Perdida de Agua			
Aditivos			
Tope de Cemento Esperado			
Fecha de Registro			
Corrida Numero			
Prof. Perforador			
Prof. Schlumberger			
Primera Lectura			
Ultima Lectura			
Tipo de Fluido en la Caneria			
Salinidad			
Densidad			
Nivel del Fluido			
BROCA/CANERIA/TUBERIA			
Broca			
Desde			
Hasta			
Caneria / Tuberia			
Paso			
Grado			
Desde			
Hasta			
Temperaturas Maximias Medidas			
Registro en Fondo			
Unidad Numero			
Registrado por			
Testigo			

DEPTH SUMMARY LISTING

Date Created: 25-APR-2004 15:28:43

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B Serial Number: 824 Calibration Date: Calibrator Serial Number: Calibration Cable Type: 7-46P Wheel Correction 1: -2 Wheel Correction 2: -2	Type: CMTD-B/A Serial Number: 1689 Calibration Date: 3-Ene-2004 Calibrator Serial Number: 1077 Calibration Gain: 1.00 Calibration Offset: 0.00	Type: 7-46P Serial Number: 77353 Length: 6985.10 M <hr/> Conveyance Method: Wireline Rig Type: LAND

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	Combinada
Reference Log Run Number:	1
Reference Log Date:	26-Jun-2005

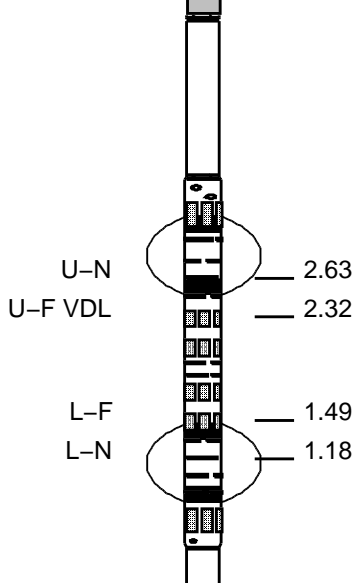
Depth Control Remarks

1. IDW usado como sistema de profundidad primario.	
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.

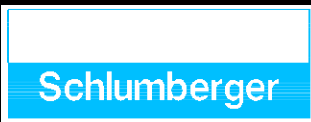
OTROS SERVICIOS #1	OTROS SERVICIOS #2
OS1: PUNZADO 4"	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5: P.INT-246	OS5:
OBSERVACIONES: CORRIDA #1	OBSERVACIONES: CORRIDA #2
-Perfil de correlacion de cia.Schlumberger	
-Herramienta corrida segun diagrama	
-Sonico centralizado con tres gemcos de 5.5"	
-Primer tramo de registro sin correccion de profundidad	
-Lectura de Cbl en caneria libre 70 Mv(+ -) 10 Mv	
-Lectura de TT afectada por buen cemento	
-Fondo constatado 1230 Mtrs	



BNS-CCS Tension HV 0.00 0.14
 TOOL ZERO

MAXIMUM STRING DIAMETER 7.50 IN
 MEASUREMENTS RELATIVE TO TOOL ZERO
 ALL LENGTHS IN METERS

PROVINCIA: **NEUQUEN**
 MAXIS EXPRESS



TRAMO PRINCIPAL

Company: YPF S.A. Well: YPF.Ch.LC-668

Output DLIS Files

DEFAULT SONIC_CNL_004LUP FN:3 PRODUCER 30-Jun-2005 21:26 1232.5 M 722.4 M

OP System Version: 11C0-305
 MCM

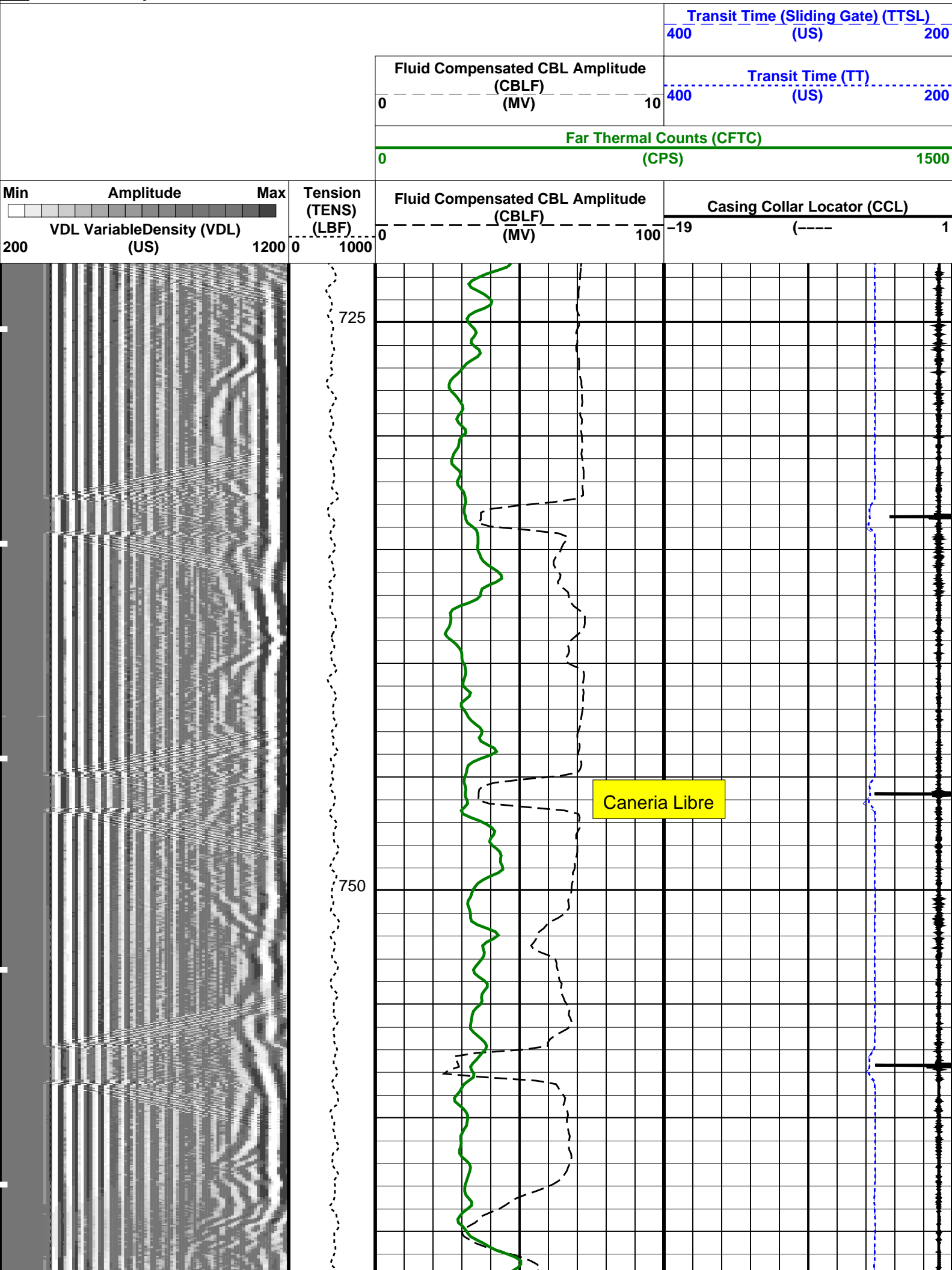
SDT-C	11C0-305	CNT-H	11C0-305
TCC-B	11C0-305	CAL-Y	11C0-305

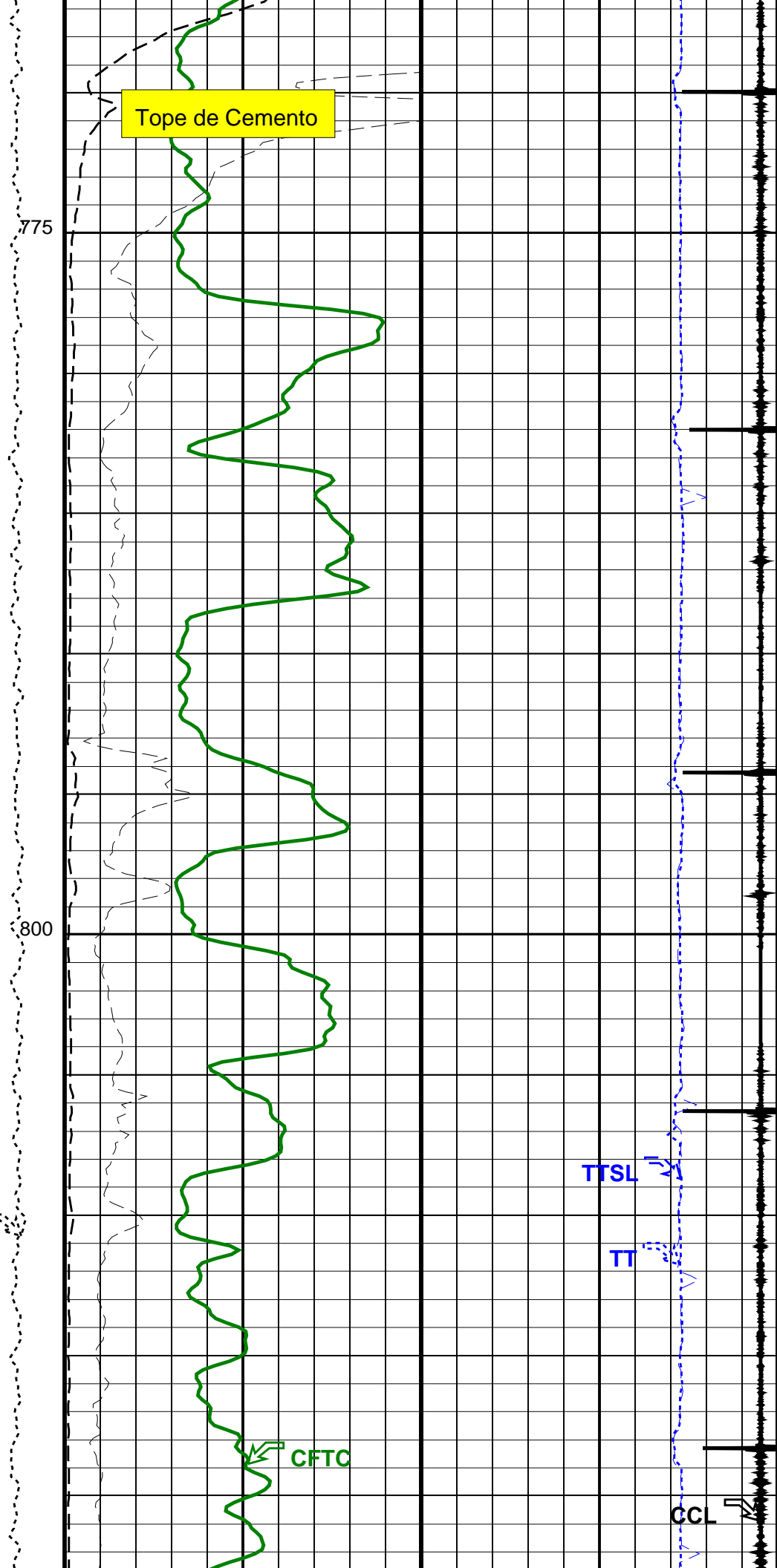
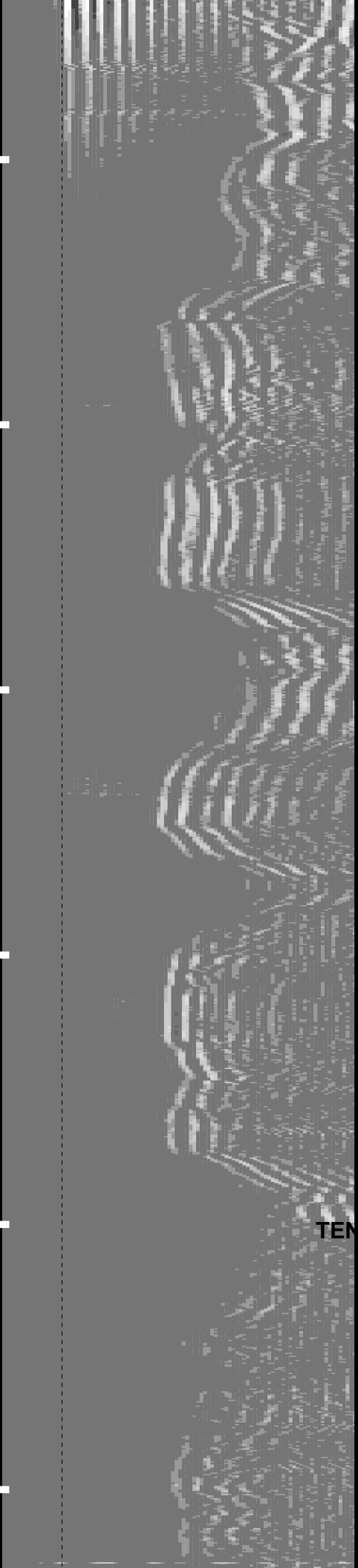
Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
BS	8.500 IN	8.500 IN	1054.5 21:45:45
BSAL	-50000.00 PPM	-50000.00 PPM	1051.3 21:46:06
CSIZ	5.500 IN	5.500 IN	1053.7 21:45:50
CWEI	14.00 LB/F	14.00 LB/F	1052.8 21:45:56
DFD	1.00 G/C3	1.00 G/C3	1052.0 21:46:01
	1.00 G/C3	1.00 G/C3	1052.0 21:46:01
	1.00 G/C3	1.00 G/C3	1051.5 21:46:04
TDD	1250.00 M	-50000.00 M	1058.6 21:45:19
TDL	1230.00 M	-50000.00 M	1058.3 21:45:21

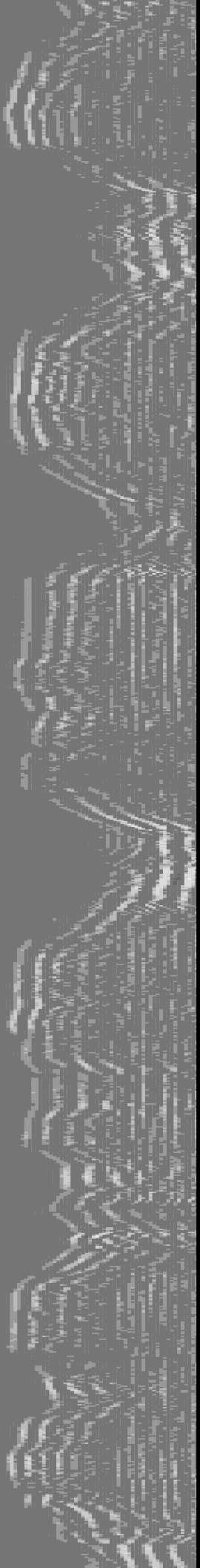
PIP SUMMARY

Time Mark Every 60 S





BS

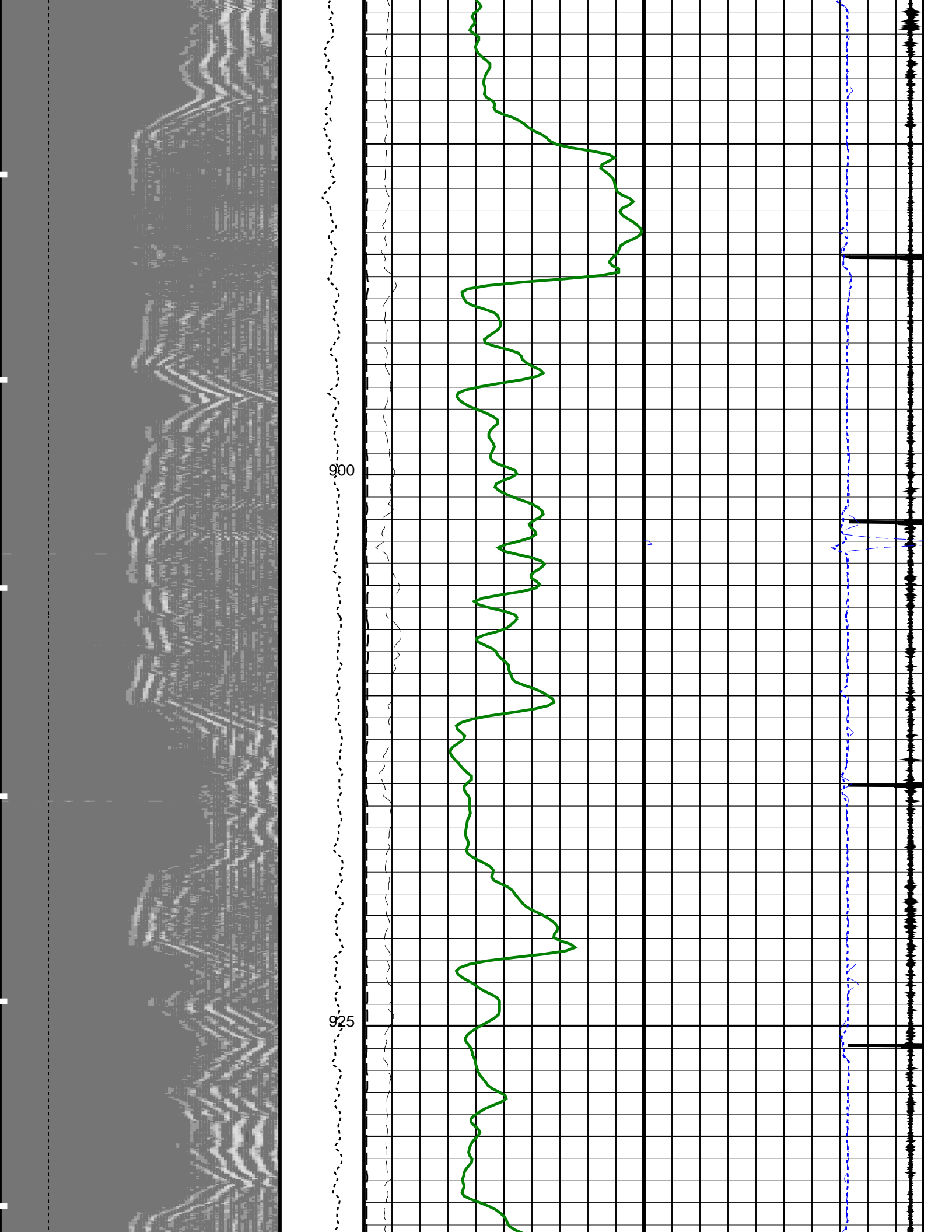


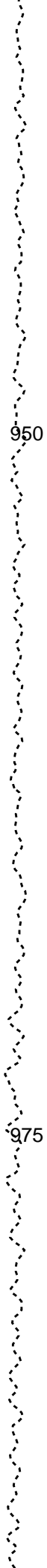
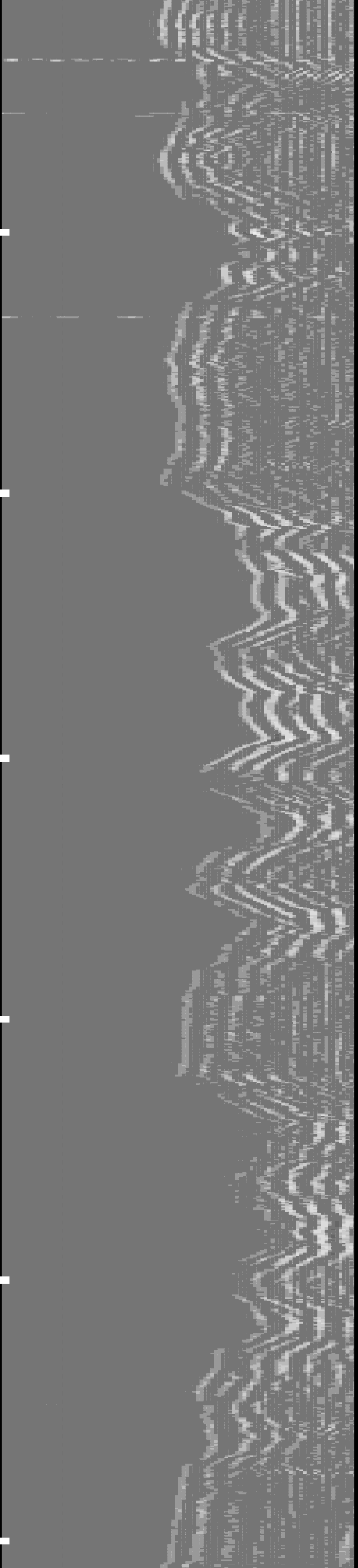
825

850

875

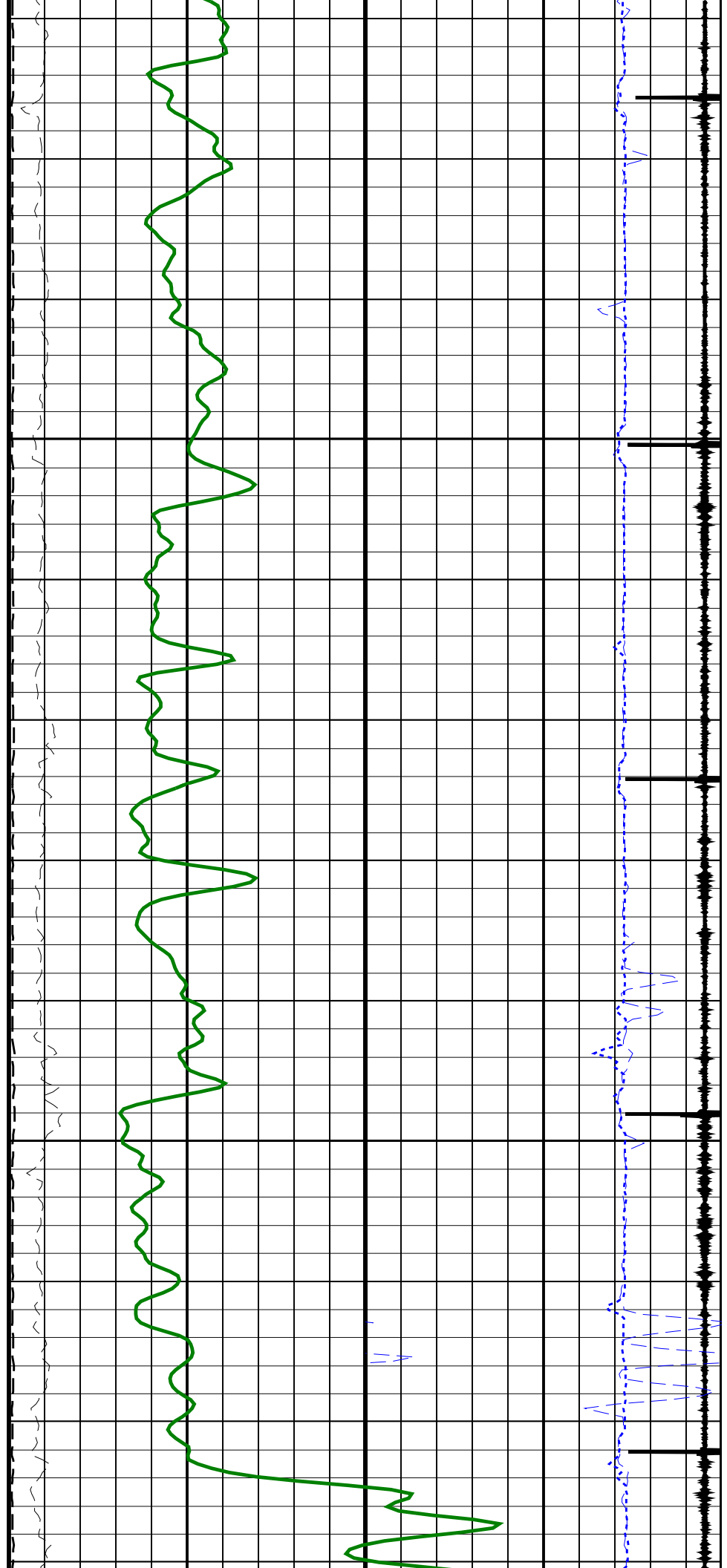


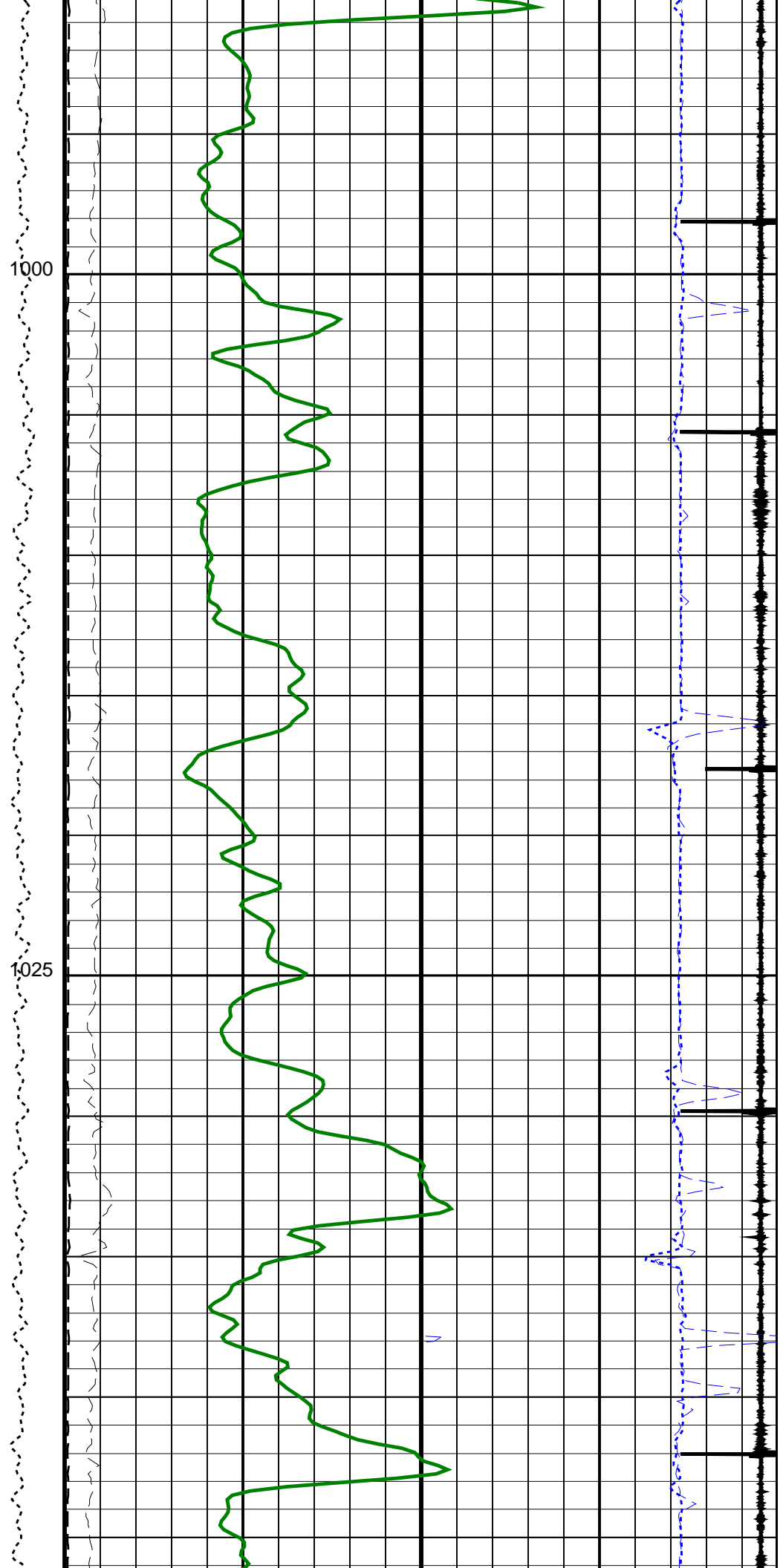
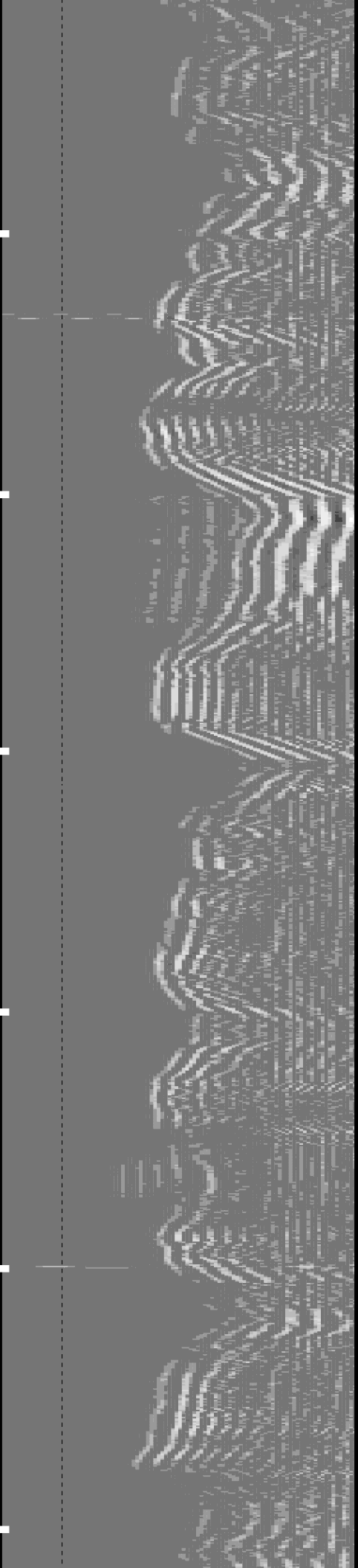


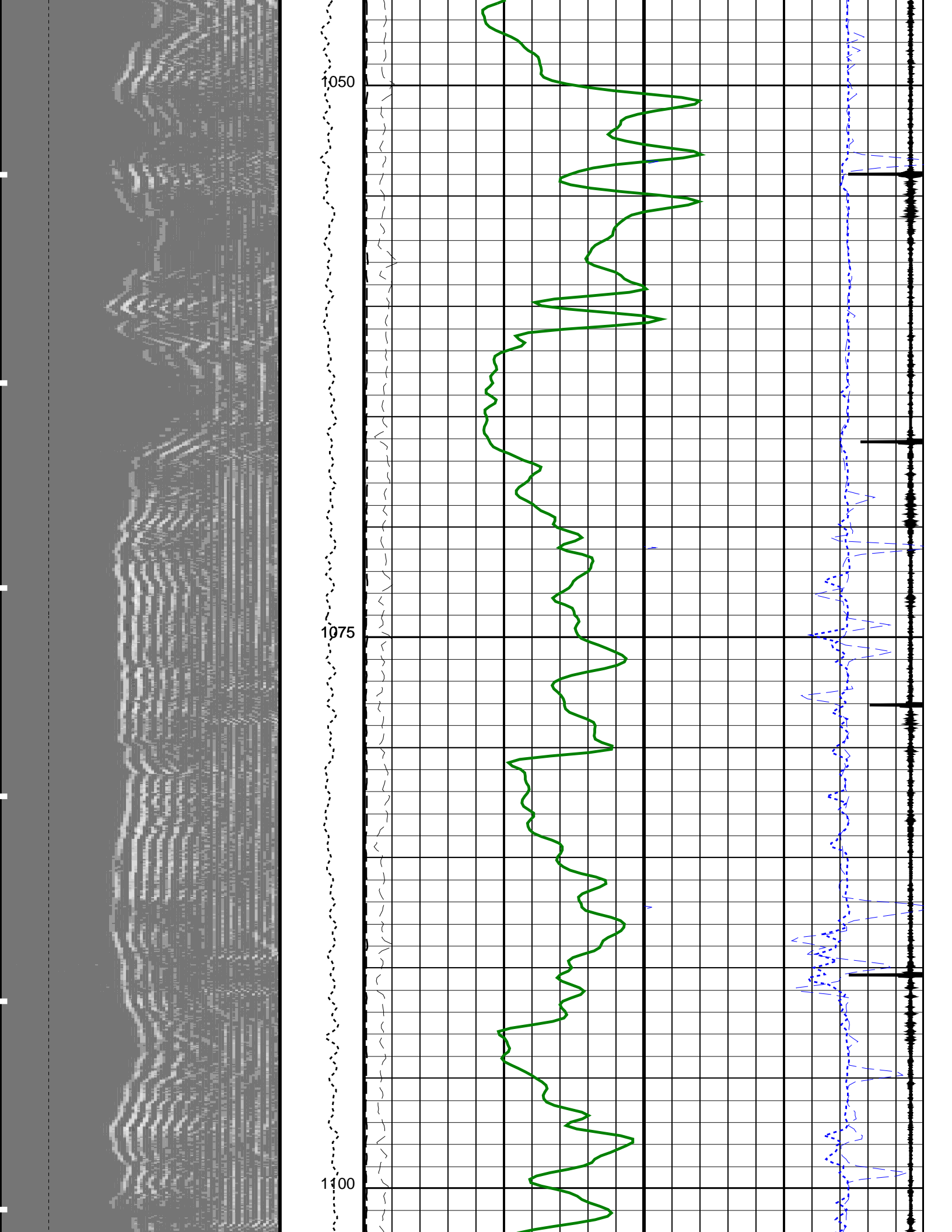


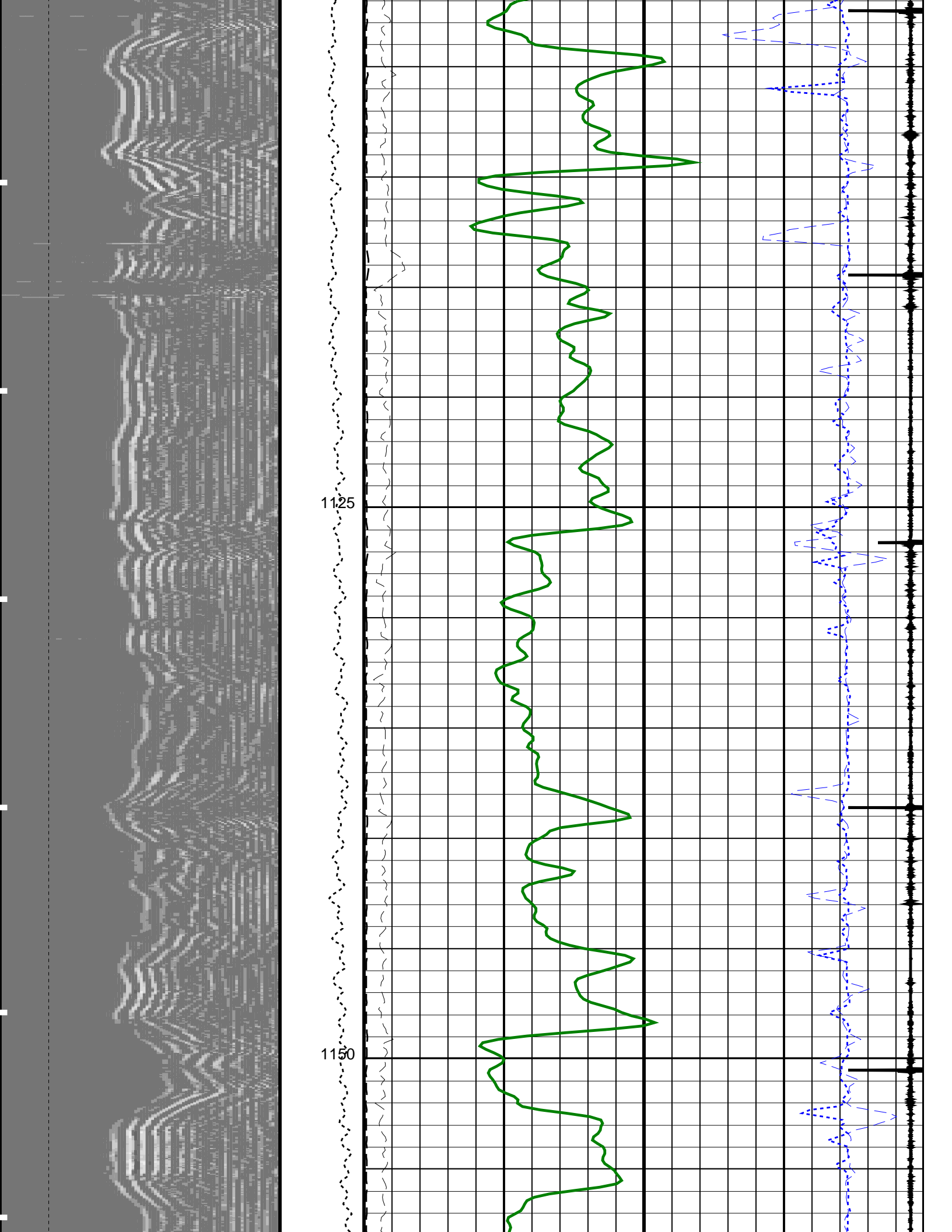
950

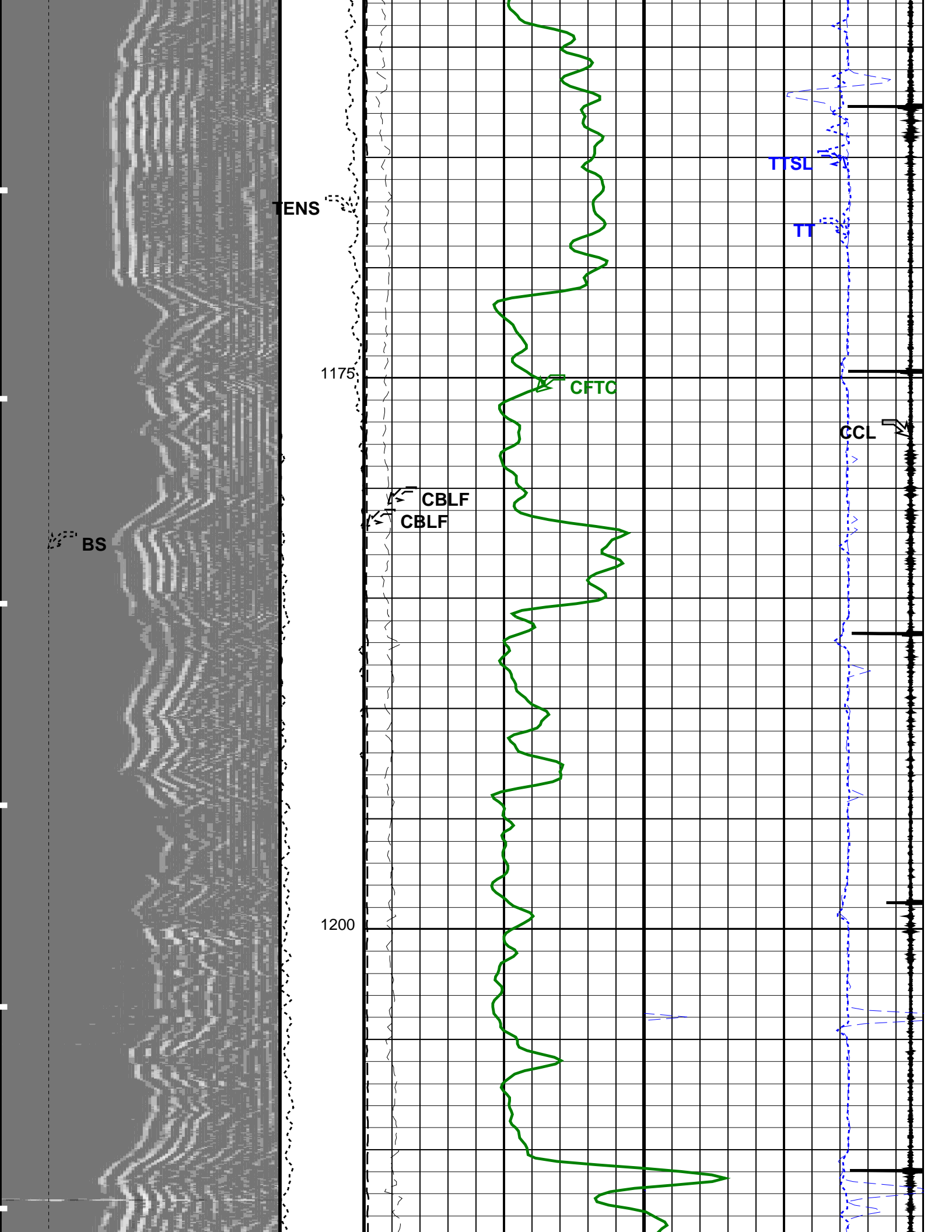
975

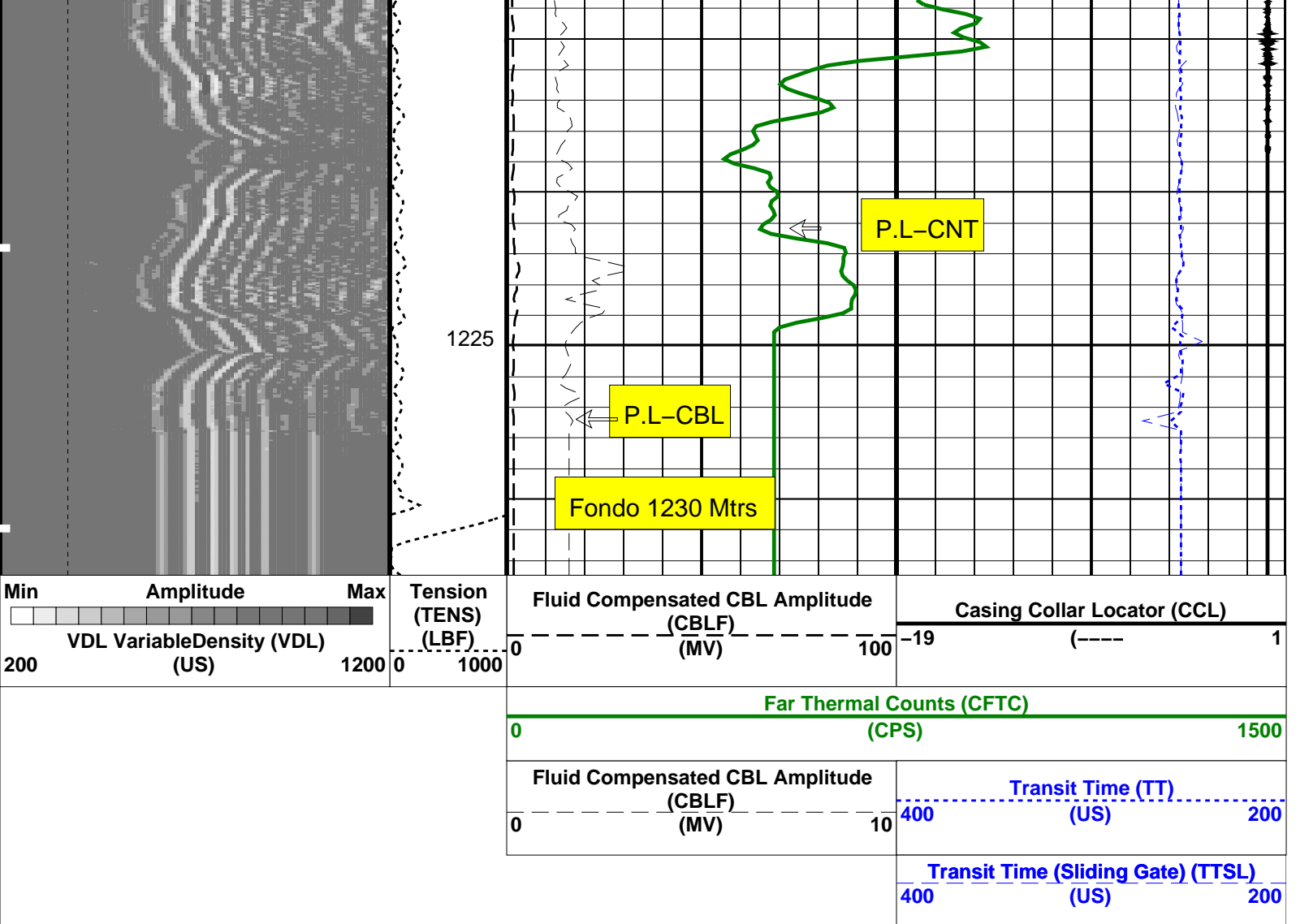












PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
SDT-C: Sonic Digital - C		
AGC	Automatic Gain Control	ON
AMSG	Auxilliary Minimum Sliding Gate	140 US
ASGL	Auxilliary Minimum Sliding Gate Width	100 US
BILI	Bond Index Level for Zone Isolation	0.8
CBLG	CBL Gate Width	40 US
CDDEL	Digitizing Delay (Acq Monitor Checked)	200 US
CDSIN	Digitizer Sample Interval (Acq Monitor Checked)	DS10
CDTS	C-Delta-T Shale	100 US/F
CDWCO	Digitizer Word Count (Acq Monitor Checked)	500
CRMOD	Receiver Mode (Acq Monitor Checked)	B
CSTR	Compressive Strength of Cement	13789.5 KPAA
CVDLM	VDL Firing Mode (Acq Monitor Checked)	UTFR
CWMOD	Waveform Firing Mode (Acq Monitor Checked)	NONE
DDE0	Digitizing Delay 0	200 US
DDEL	Digitizing Delay	200 US
DDMG	Downhole Differential Multi-Gain	10
DETE	Detection	E1
DSI0	Digitizer Sample Interval 0	10 US
DSIN	Digitizer Sample Interval	DS10
DTCM	Delta-T Computation Mode	FULL
DTF	Delta-T Fluid	189 US/F
DTM	Delta-T Matrix	56 US/F
DWCO	Digitizer Word Count 0	500
DWCO	Digitizer Word Count	500
FCF	CBL Fluid Compensation Factor	0.9
GAI	Manual Gain	40
GOBO	Good Bond	2 MV
ITTS	Integrated Transit Time Source	DT
MCI	Minimum Cemented Interval for Isolation	1.4478 M

MGAI	Maximum Gain	3500	
MODE	Firing Mode	CBL	
MSA	Minimum Sonic Amplitude	0.643961	MV
NMSG	Near Minimum Sliding Gate	248	US
RATE	Firing Rate	R15	
RMOD	Receiver Mode	B	
SFAF	Sonic Formation Attenuation Factor	0	DB/M
SGAD	Sliding Gate	ON	
SGDT	Sliding Gate Delta-T	50	US/F
SGW	Sliding Gate Width	80	US
SLEV	Signal Level for AGC	5000	MV
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DT	
SWW	Sonic Window Width	13	MS
T0CA	T0 Correction	ON	
TSIG	Test Signal	OFF	
VDLG	VDL Manual Gain	5	
VDLM	VDL Firing Mode	UTFR	
WAGC	Waveform AGC	ON	
WGAJ	Waveform Manual Gain WGAJ	20	
WGDT	Waveform Gain Delta-T	240	US/F
WGIN	Waveform Gain Interval	4800	US
WMOD	Waveform Firing Mode	NONE	
CNT-H: Compensated Neutron - H			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	100	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	YES	
DPPM	Density Porosity Processing Mode	STAN	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	15	DEGC
SOCN	Standoff Distance	0.5	IN
SOCO	Standoff Correction Option	NO	
CAL-Y: Casing Anomaly Locator - Y			
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	0.3	V
System and Miscellaneous			
ALTDCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	8.500	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	14.00	LB/F
DFD	Drilling Fluid Density	1.00	G/C3
DORL	Depth Offset for Repeat Analysis	0.0	M
MST	Mud Sample Temperature	-50000.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	-50000	M
TDD	Total Depth - Driller	-50000.00	M
TDL	Total Depth - Logger	-50000.00	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: CBL_Fluid_Compensated Vertical Scale: 1:200 Graphics File Created: 30-Jun-2005 21:26

OP System Version: 11C0-305

MCM

SDT-C	11C0-305	CNT-H	11C0-305
TCC-B	11C0-305	CAL-Y	11C0-305

Output DLIS Files

DEFAULT	SONIC_CNL_004LUP	FN:3	PRODUCER	30-Jun-2005 21:26
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TRAMO REPETIDO

Company: YPF S.A.

Well: YPF.Ch.LC-668

Output DLIS Files

DEFAULT SONIC_CNL_006LUP FN:5 PRODUCER 30-Jun-2005 22:24 811.1 M 721.5 M

OP System Version: 11C0-305

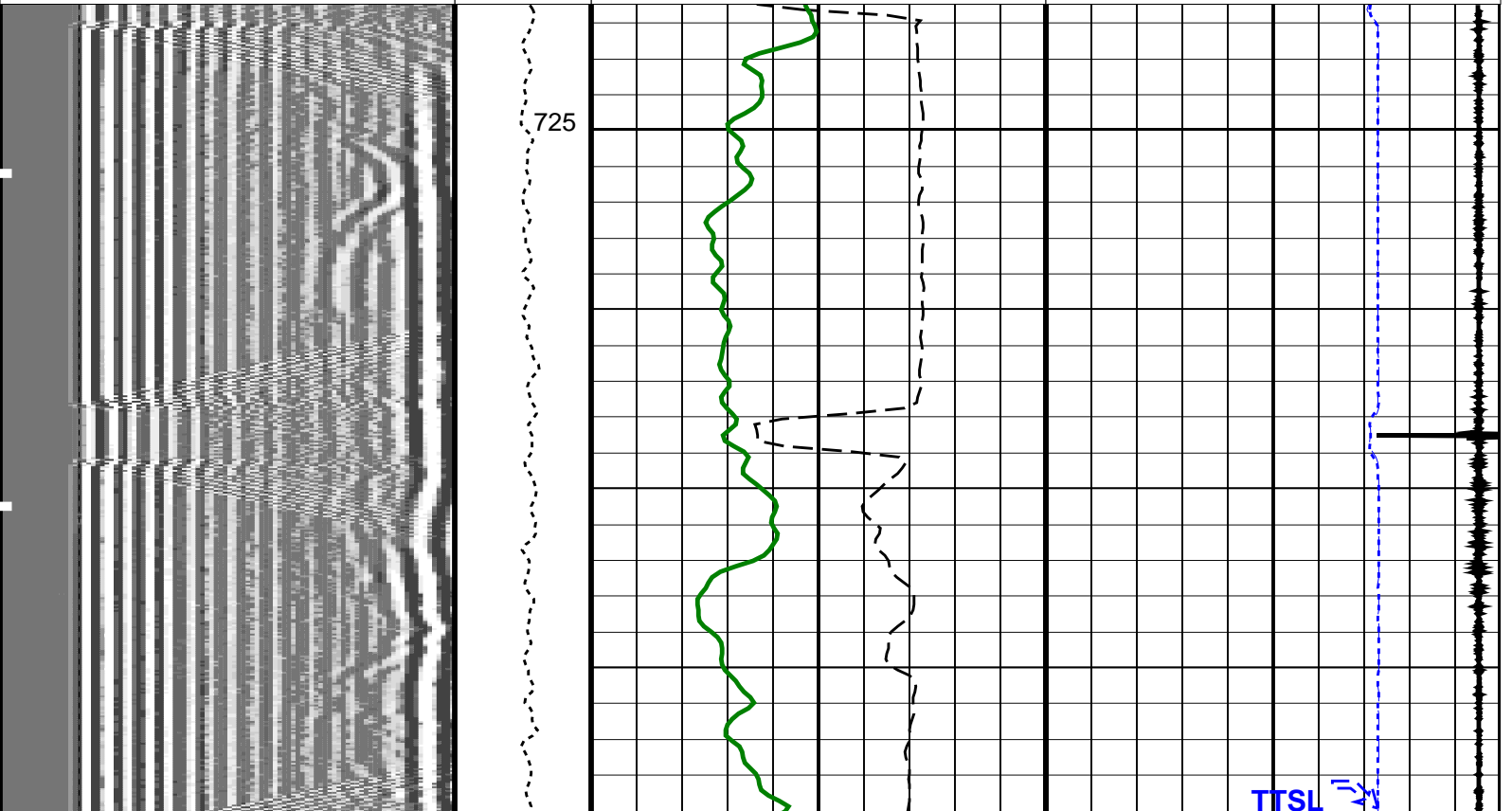
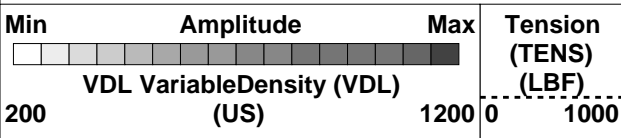
MCM

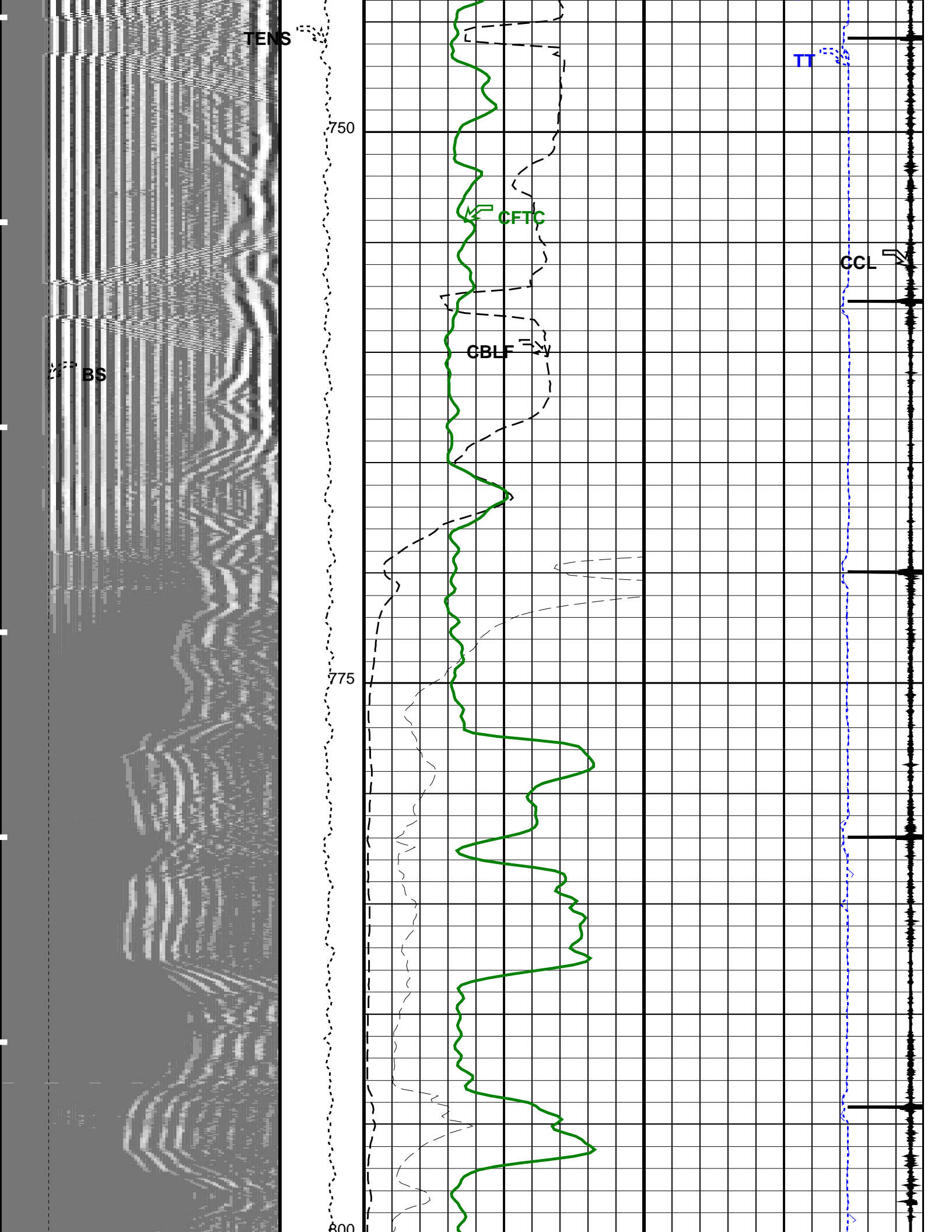
SDT-C 11C0-305 CNT-H 11C0-305
 TCC-B 11C0-305 CAL-Y 11C0-305

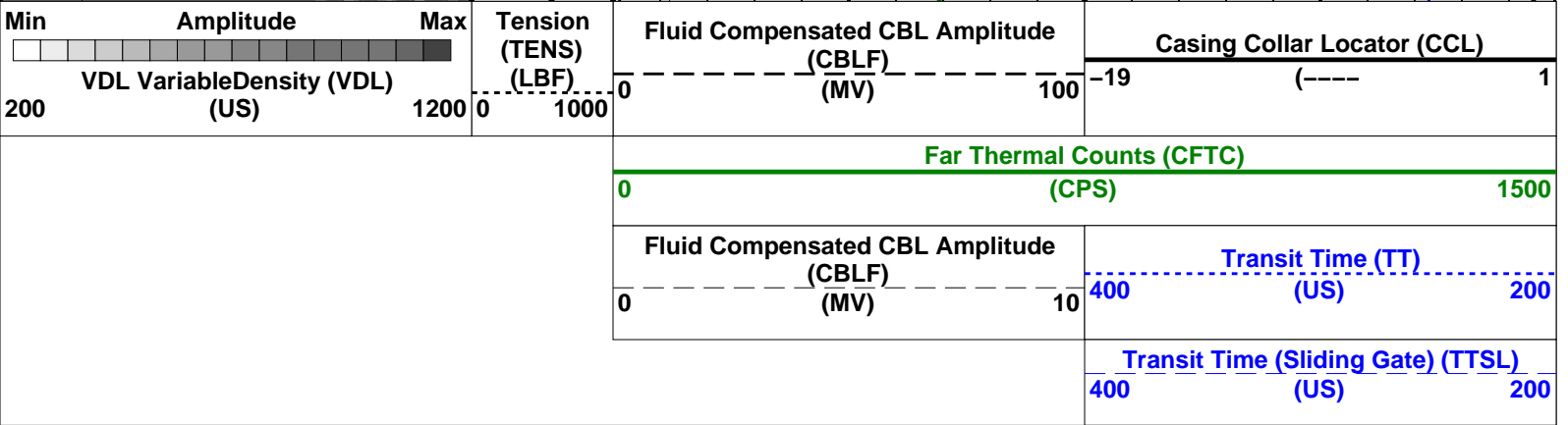
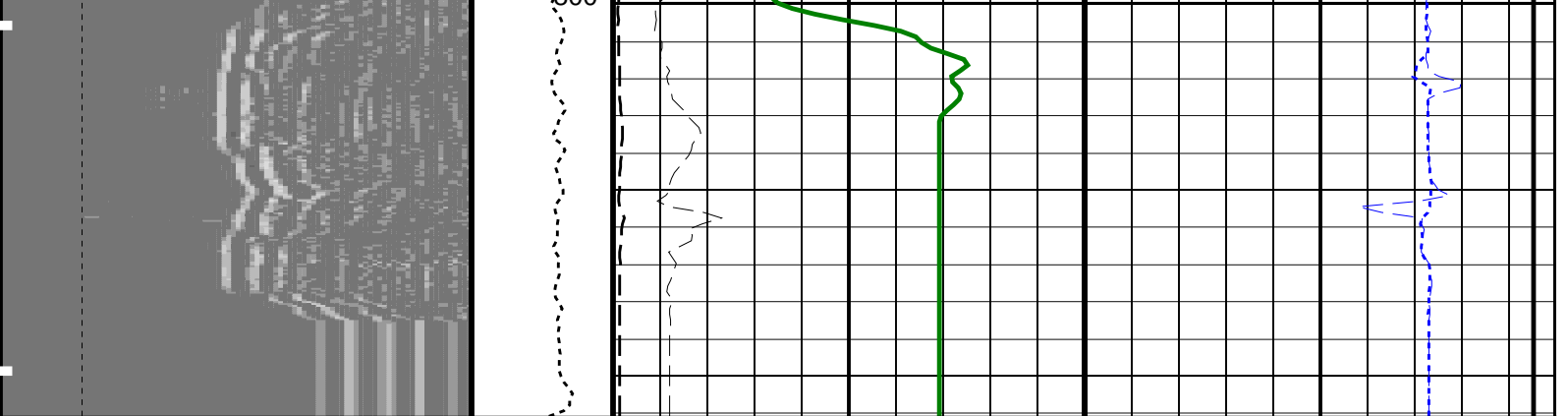
PIP SUMMARY

Time Mark Every 60 S

		Transit Time (Sliding Gate) (TTSL)	
		400	200
		(US)	
Fluid Compensated CBL Amplitude (CBLF)		Transit Time (TT)	
(MV)		(US)	
0	10	400	200
Far Thermal Counts (CFTC)			
		1500	
		(CPS)	
0			
1000			
Fluid Compensated CBL Amplitude (CBLF)		Casing Collar Locator (CCL)	
(MV)		(----)	
0	100	-19	1







PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
SDT-C: Sonic Digital - C		
AGC	Automatic Gain Control	ON
AMSG	Auxilliary Minimum Sliding Gate	140 US
ASGL	Auxilliary Minimum Sliding Gate Width	100 US
BILI	Bond Index Level for Zone Isolation	0.8
CBLG	CBL Gate Width	40 US
CDDEL	Digitizing Delay (Acq Monitor Checked)	200 US
CDSIN	Digitizer Sample Interval (Acq Monitor Checked)	DS10
CDSIN	C-Delta-T Shale	100 US/F
CDWCO	Digitizer Word Count (Acq Monitor Checked)	500
CRMOD	Receiver Mode (Acq Monitor Checked)	B
CSTR	Compressive Strength of Cement	13789.5 KPA
CVDLM	VDL Firing Mode (Acq Monitor Checked)	UTFR
CWMOD	Waveform Firing Mode (Acq Monitor Checked)	NONE
DDE0	Digitizing Delay 0	200 US
DDEL	Digitizing Delay	200 US
DDMG	Downhole Differential Multi-Gain	10
DETE	Detection	E1
DSI0	Digitizer Sample Interval 0	10 US
DSIN	Digitizer Sample Interval	DS10
DTCM	Delta-T Computation Mode	FULL
DTF	Delta-T Fluid	189 US/F
DTM	Delta-T Matrix	56 US/F
DWC0	Digitizer Word Count 0	500
DWCO	Digitizer Word Count	500
FCF	CBL Fluid Compensation Factor	0.9
GAI	Manual Gain	40
GOBO	Good Bond	2 MV
ITTS	Integrated Transit Time Source	DT
MCI	Minimum Cemented Interval for Isolation	1.4478 M
MGAI	Maximum Gain	3500
MODE	Firing Mode	CBL
MSA	Minimum Sonic Amplitude	0.643961 MV
NMSG	Near Minimum Sliding Gate	248 US
RATE	Firing Rate	R15
RMOD	Receiver Mode	B
SFAF	Sonic Formation Attenuation Factor	0 DB/M
SGAD	Sliding Gate	ON
SGDT	Sliding Gate Delta-T	50 US/F
SGW	Sliding Gate Width	80 US
SLEV	Signal Level for AGC	5000 MV
SPEF	Sonic Porosity Formula	PAYMER HUNT

SPSO	Sonic Porosity Formula	RATIMER_TONT	DT	
SWW	Sonic Porosity Source		13	MS
TOCA	T0 Correction		ON	
TSIG	Test Signal		OFF	
VDLG	VDL Manual Gain		5	
VDLM	VDL Firing Mode		UTFR	
WAGC	Waveform AGC		ON	
WGAI	Waveform Manual Gain WGAI		20	
WGDT	Waveform Gain Delta-T		240	US/F
WGIN	Waveform Gain Interval		4800	US
WMOD	Waveform Firing Mode		NONE	
CNT-H: Compensated Neutron - H				
BHFL	Borehole Fluid Type		WATER	
BHS	Borehole Status		CASED	
BHT	Bottom Hole Temperature (used in calculations)		100	DEGC
BSCO	Borehole Salinity Correction Option		NO	
CCCO	Casing & Cement Thickness Correction Option		YES	
DPPM	Density Porosity Processing Mode		STAN	
FSAL	Formation Salinity		-50000	PPM
FSCO	Formation Salinity Correction Option		NO	
GCSE	Generalized Caliper Selection		BS	
GDEV	Average Angular Deviation of Borehole from Normal		0	DEG
GGRD	Geothermal Gradient		0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection		CHART_GEN 9	
GTSE	Generalized Temperature Selection		LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option		YES	
MATR	Rock Matrix for Neutron Porosity Corrections		SANDSTONE	
MCCO	Mud Cake Correction Option		NO	
MCOR	Mud Correction		NATU	
MWCO	Mud Weight Correction Option		NO	
PTCO	Pressure/Temperature Correction Option		NO	
SDAT	Standoff Data Source		SOCN	
SHT	Surface Hole Temperature		15	DEGC
SOCN	Standoff Distance		0.5	IN
SOCO	Standoff Correction Option		NO	
CAL-Y: Casing Anomaly Locator - Y				
CCLD	CCL reset delay		12	IN
CCLT	CCL Detection Level		0.3	V
System and Miscellaneous				
ALDTPCHAN	Name of alternate depth channel	SpeedCorrectedDepth		
BS	Bit Size		8.500	IN
BSAL	Borehole Salinity		-50000.00	PPM
CSIZ	Current Casing Size		5.500	IN
CWEI	Casing Weight		14.00	LB/F
DFD	Drilling Fluid Density		1.00	G/C3
DORL	Depth Offset for Repeat Analysis		0.0	M
MST	Mud Sample Temperature		-50000.00	DEGC
PBVSADP	Use alternate depth channel for playback		NO	
RMFS	Resistivity of Mud Filtrate Sample		-50000.0000	OHMM
RW	Resistivity of Connate Water		1.0000	OHMM
TD	Total Depth		-50000	M
TDD	Total Depth - Driller		1250.00	M
TDL	Total Depth - Logger		1230.00	M
TWS	Temperature of Connate Water Sample		37.78	DEGC

Format: CBL_Fluid_Compensated Vertical Scale: 1:200 Graphics File Created: 30-Jun-2005 22:24

OP System Version: 11C0-305
MCM

SDT-C	11C0-305	CNT-H	11C0-305
TCC-B	11C0-305	CAL-Y	11C0-305

Output DLIS Files

DEFAULT	SONIC_CNL_006LUP	FN:5	PRODUCER	30-Jun-2005 22:24
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Company: YPF S.A.

Well: YPF.Ch.LC-668

Input DLIS Files

DEFAULT SONIC_CNL_004LUP FN:3 PRODUCER 30-Jun-2005 21:26 1232.5 M 722.4 M

Output DLIS Files

DEFAULT SONIC_CNL_006LUP FN:5 PRODUCER 30-Jun-2005 22:24

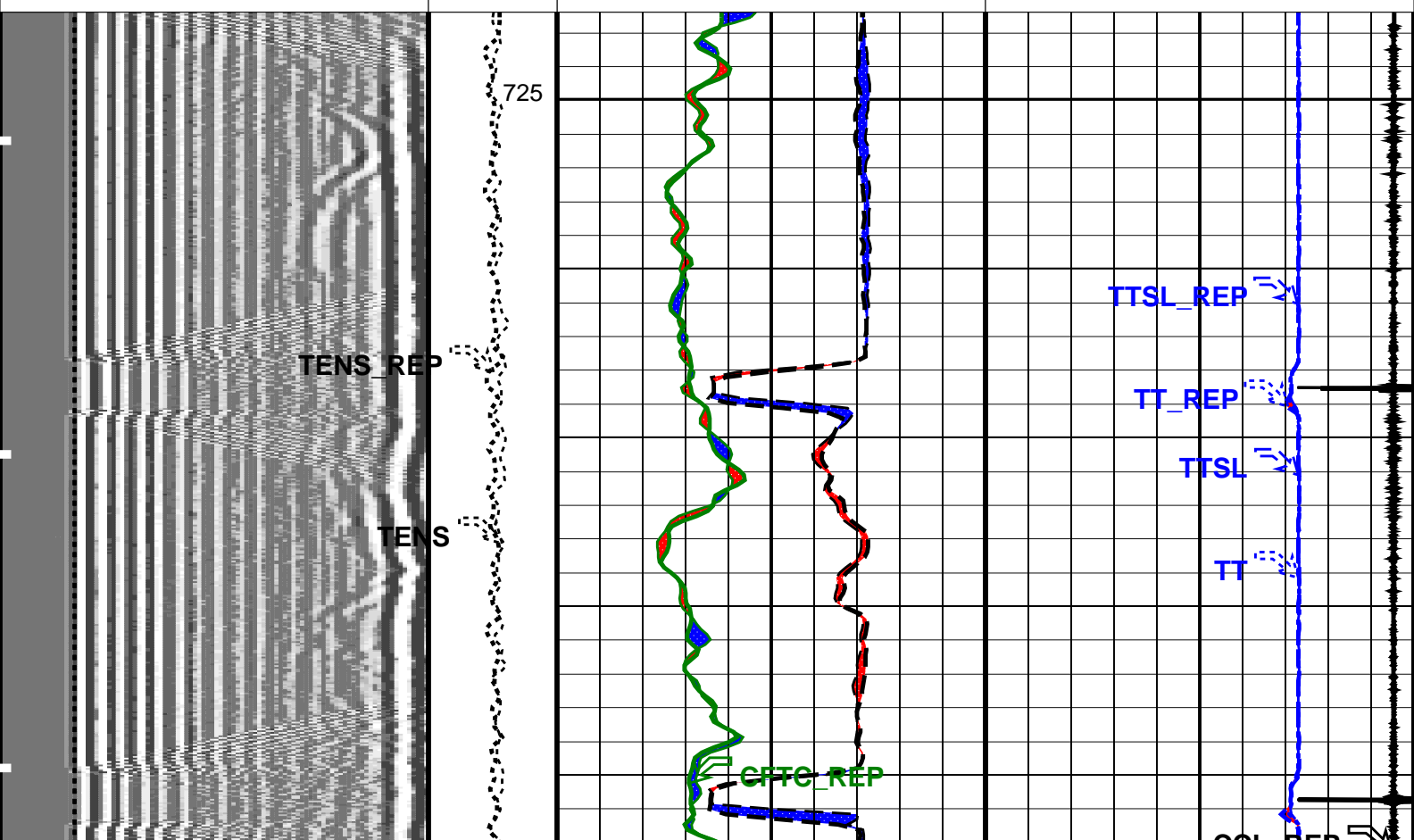
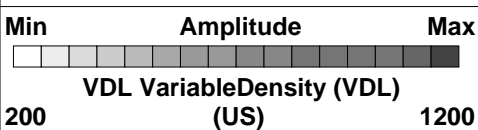
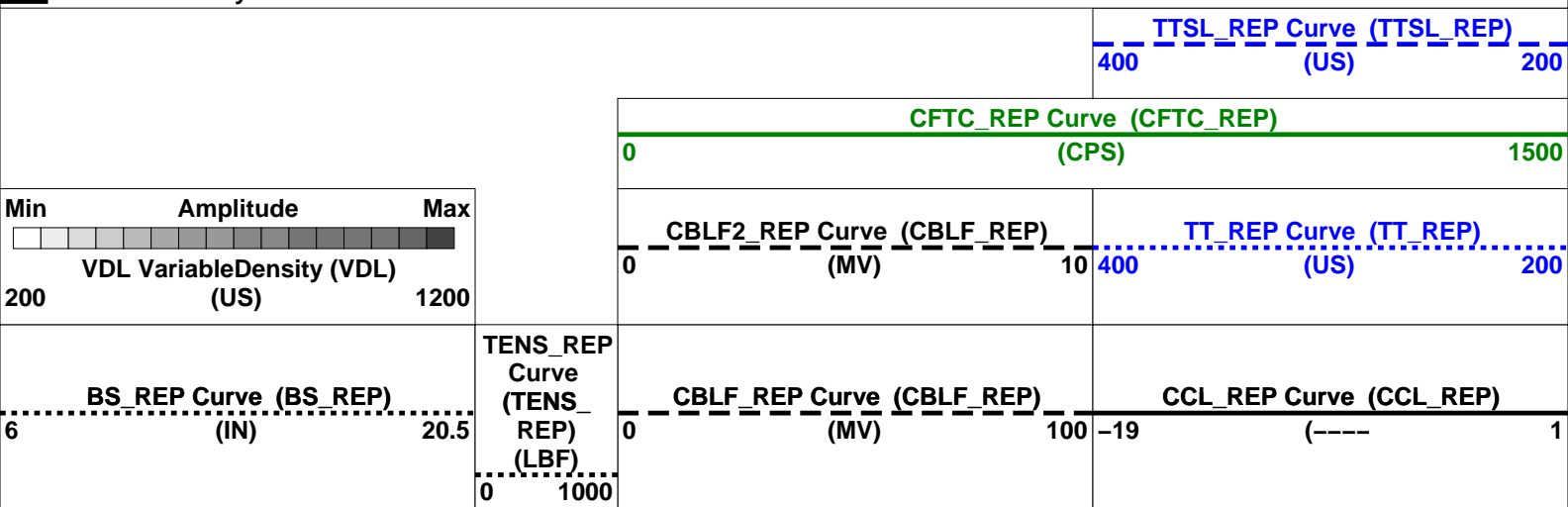
OP System Version: 11C0-305

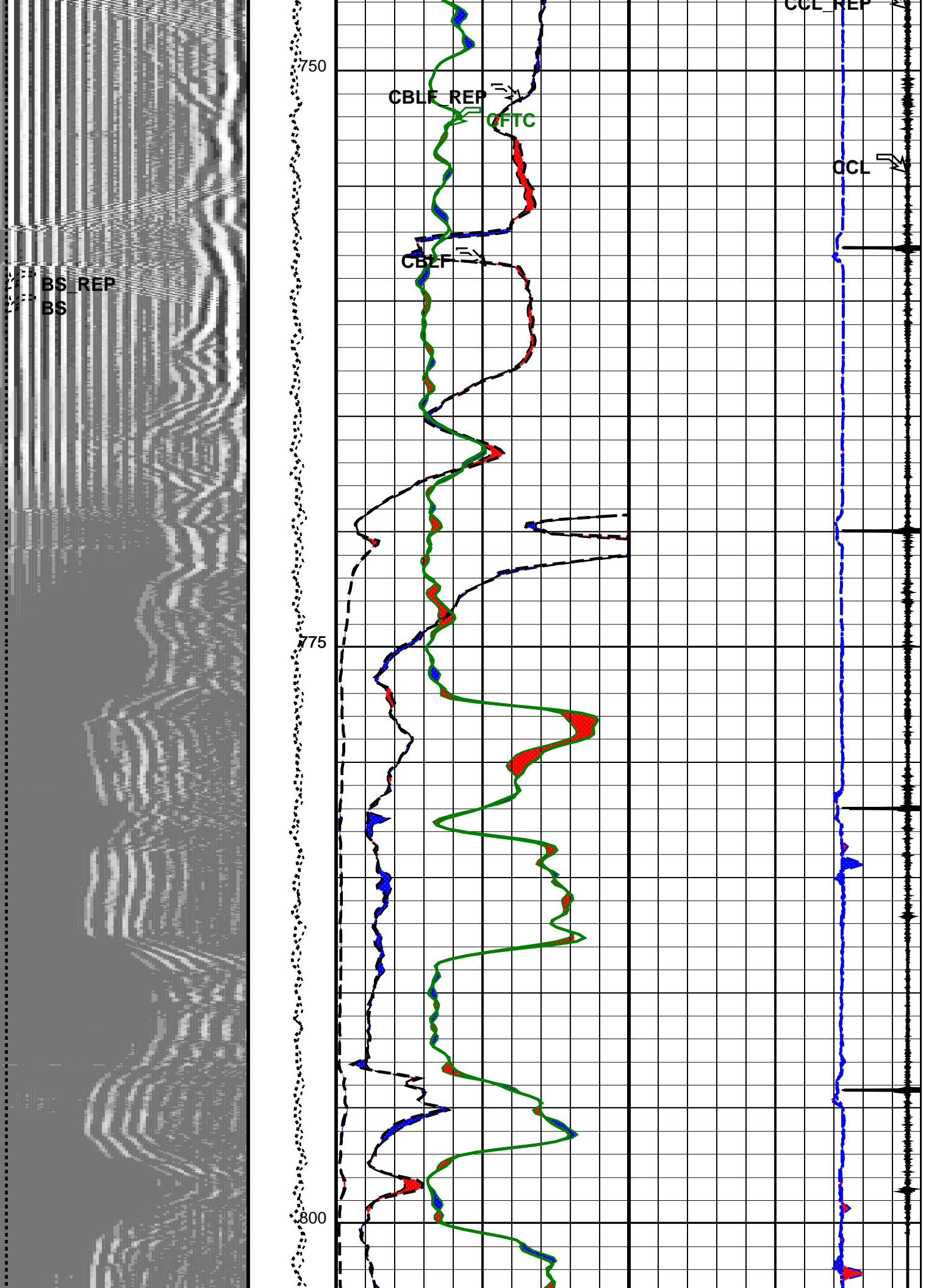
MCM

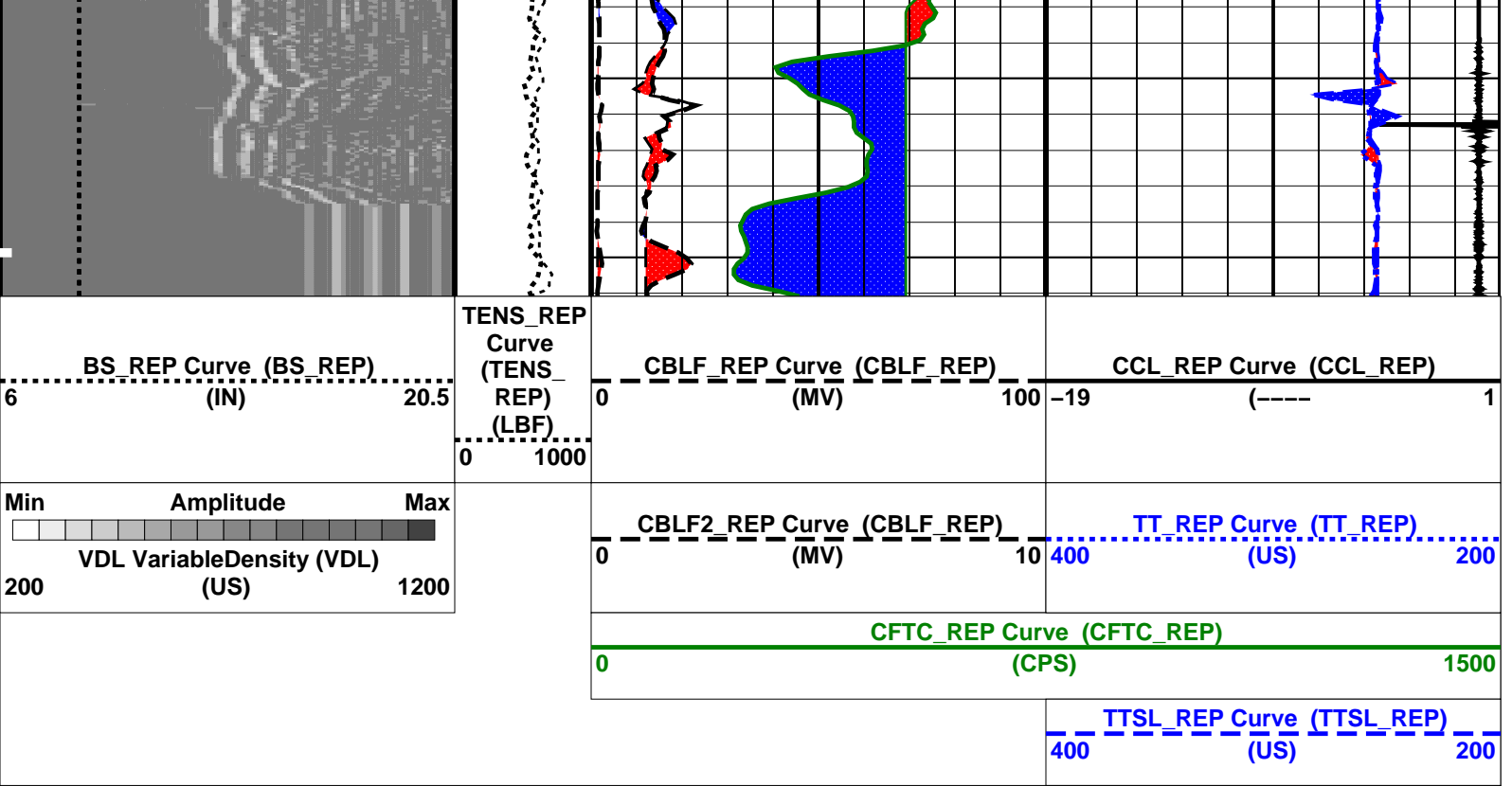
SDT-C 11C0-305 CNT-H 11C0-305
TCC-B 11C0-305 CAL-Y 11C0-305

PIP SUMMARY

Time Mark Every 60 S







PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
SDT-C: Sonic Digital - C		
AGC	Automatic Gain Control	ON
AMSG	Auxilliary Minimum Sliding Gate	140 US
ASGL	Auxilliary Minimum Sliding Gate Width	100 US
BILI	Bond Index Level for Zone Isolation	0.8
CBLG	CBL Gate Width	40 US
CDDEL	Digitizing Delay (Acq Monitor Checked)	200 US
CDSIN	Digitizer Sample Interval (Acq Monitor Checked)	DS10
CDTS	C-Delta-T Shale	100 US/F
CDWCO	Digitizer Word Count (Acq Monitor Checked)	500
CRMOD	Receiver Mode (Acq Monitor Checked)	B
CSTR	Compressive Strength of Cement	13789.5 KPAA
CVDLM	VDL Firing Mode (Acq Monitor Checked)	UTFR
CWMOD	Waveform Firing Mode (Acq Monitor Checked)	NONE
DDE0	Digitizing Delay 0	200 US
DDEL	Digitizing Delay	200 US
DDMG	Downhole Differential Multi-Gain	10
DETE	Detection	E1
DSI0	Digitizer Sample Interval 0	10 US
DSIN	Digitizer Sample Interval	DS10
DTCM	Delta-T Computation Mode	FULL
DTF	Delta-T Fluid	189 US/F
DTM	Delta-T Matrix	56 US/F
DWCO	Digitizer Word Count 0	500
DWCO	Digitizer Word Count	500
FCF	CBL Fluid Compensation Factor	0.9
GAI	Manual Gain	40
GOBO	Good Bond	2 MV
ITTS	Integrated Transit Time Source	DT
MCI	Minimum Cemented Interval for Isolation	1.4478 M
MGAI	Maximum Gain	3500
MODE	Firing Mode	CBL
MSA	Minimum Sonic Amplitude	0.643961 MV
NMSG	Near Minimum Sliding Gate	248 US
RATE	Firing Rate	R15
RMOD	Receiver Mode	B
SFAF	Sonic Formation Attenuation Factor	0 DB/M
SGAD	Sliding Gate	ON
SGDT	Sliding Gate Delta-T	50 US/F
SGW	Sliding Gate Width	80 US
SLEV	Signal Level for AGC	5000 MV
SPFS	Sonic Porosity Formula	RAYMER_HUNT
SPSO	Sonic Porosity Source	DT

SPCO	Sonic Porosity Source	21	
SWW	Sonic Window Width	13	MS
T0CA	T0 Correction	ON	
TSIG	Test Signal	OFF	
VDLG	VDL Manual Gain	5	
VDLM	VDL Firing Mode	UTFR	
WAGC	Waveform AGC	ON	
WGAI	Waveform Manual Gain WGAI	20	
WGDT	Waveform Gain Delta-T	240	US/F
WGIN	Waveform Gain Interval	4800	US
WMOD	Waveform Firing Mode	NONE	
CNT-H: Compensated Neutron - H			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	100	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	YES	
DPPM	Density Porosity Processing Mode	STAN	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	15	DEGC
SOCN	Standoff Distance	0.5	IN
SOCO	Standoff Correction Option	NO	
CAL-Y: Casing Anomaly Locator - Y			
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	0.3	V
System and Miscellaneous			
ALTDPCN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	8.500	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	14.00	LB/F
DFD	Drilling Fluid Density	1.00	G/C3
DORL	Depth Offset for Repeat Analysis	0.0	M
MST	Mud Sample Temperature	-50000.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	-50000	M
TDD	Total Depth - Driller	1250.00	M
TDL	Total Depth - Logger	1230.00	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: CBL_Fluid_Compensated_REP Vertical Scale: 1:200 Graphics File Created: 30-Jun-2005 22:24

OP System Version: 11C0-305

MCM

SDT-C	11C0-305	CNT-H	11C0-305
TCC-B	11C0-305	CAL-Y	11C0-305

Input DLIS Files

DEFAULT	SONIC_CNL_004LUP	FN:3	PRODUCER	30-Jun-2005 21:26	1232.5 M	722.4 M
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Output DLIS Files

DEFAULT	SONIC_CNL_006LUP	FN:5	PRODUCER	30-Jun-2005 22:24
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Company: _____ Well: _____

Output DLIS Files

DEFAULT SONIC_CNL_002LUP FN:1 PRODUCER 30-Jun-2005 21:18

OP System Version: 11C0-305

MCM

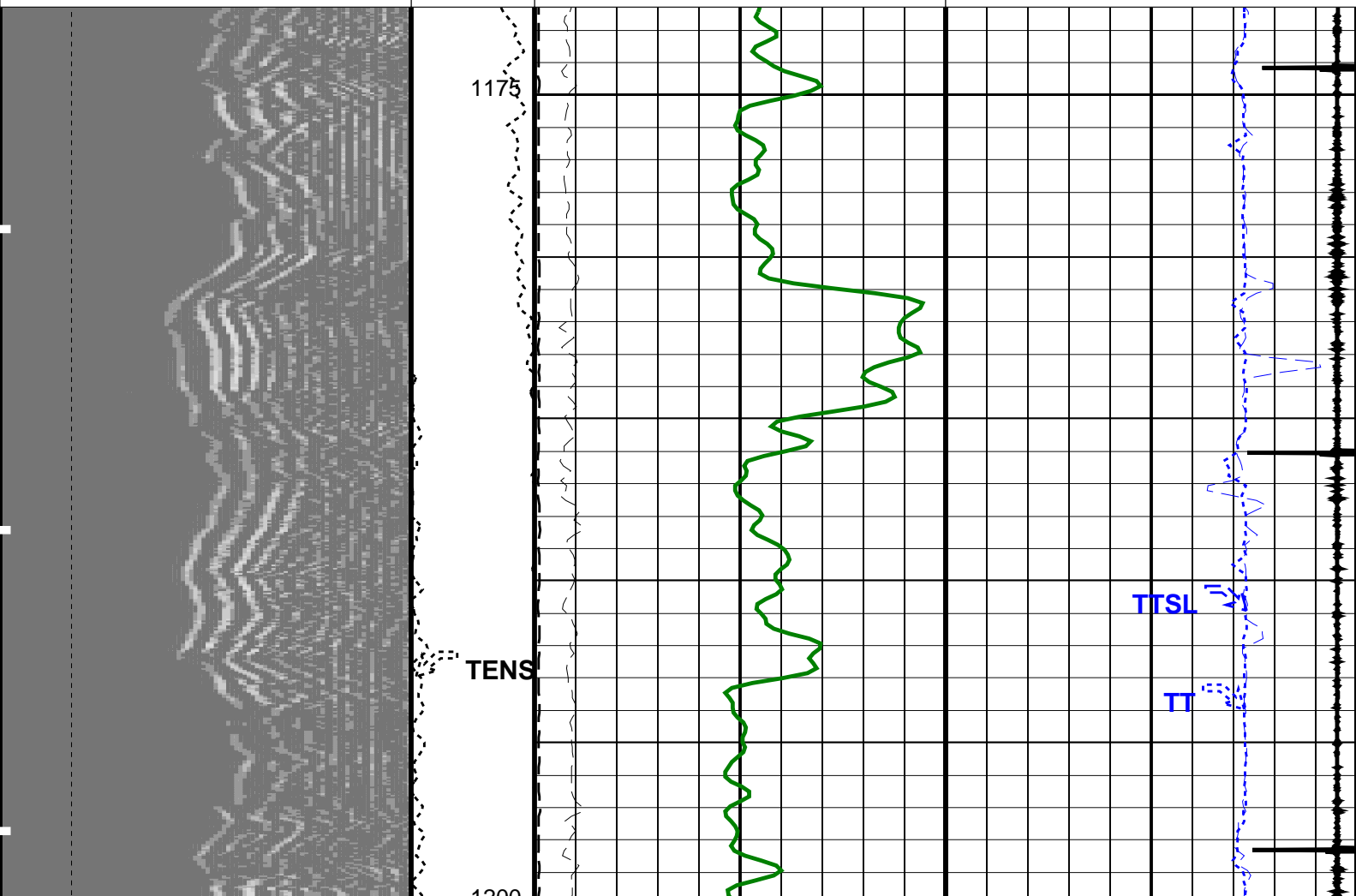
SDT-C 11C0-305 CNT-H 11C0-305
 TCC-B 11C0-305 CAL-Y 11C0-305

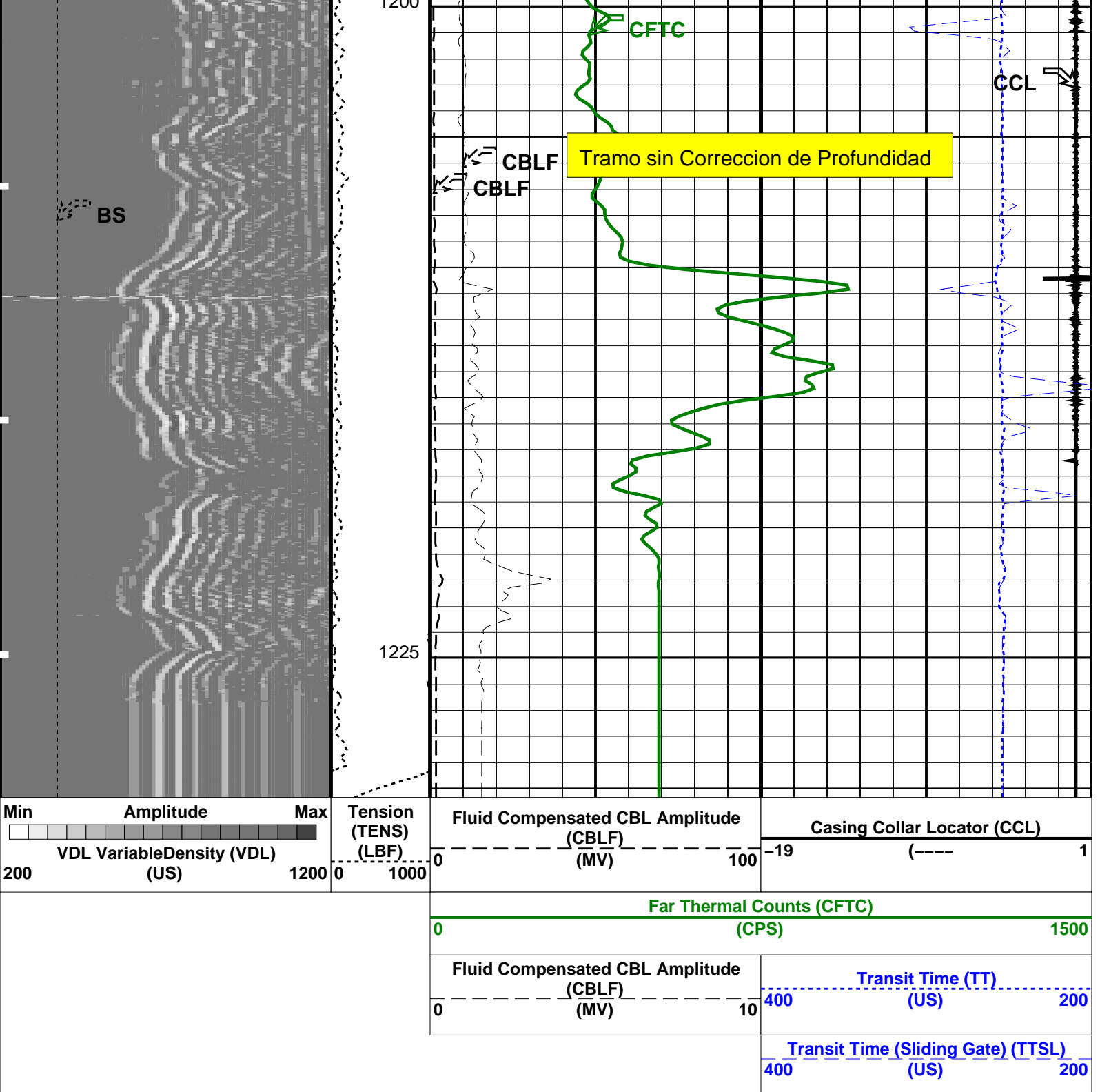
PIP SUMMARY

Time Mark Every 60 S

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

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





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
SDT-C: Sonic Digital - C		
AGC	Automatic Gain Control	ON
AMSG	Auxilliary Minimum Sliding Gate	140 US
ASGL	Auxilliary Minimum Sliding Gate Width	100 US
BILI	Bond Index Level for Zone Isolation	0.8
CBLG	CBL Gate Width	40 US
CDDEL	Digitizing Delay (Acq Monitor Checked)	200 US
CDSIN	Digitizer Sample Interval (Acq Monitor Checked)	DS10
CDSIN	Digitizer Sample Interval (Acq Monitor Checked)	DS10
CDSIN	Digitizer Sample Interval (Acq Monitor Checked)	DS10
CDSIN	Digitizer Sample Interval (Acq Monitor Checked)	DS10
CDT	C-Delta-T Shale	100 US/F
CDWCO	Digitizer Word Count (Acq Monitor Checked)	500
CRMOD	Receiver Mode (Acq Monitor Checked)	B
CSTR	Compressive Strength of Cement	13789.5 KPA

CVDLM	VDL Firing Mode (Acq Monitor Checked)	UTFR	
CWDMOD	Waveform Firing Mode (Acq Monitor Checked)	NONE	
DDE0	Digitizing Delay 0	200	US
DDEL	Digitizing Delay	200	US
DDMG	Downhole Differential Multi-Gain	10	
DETE	Detection	E1	
DSI0	Digitizer Sample Interval 0	10	US
DSIN	Digitizer Sample Interval	DS10	
DTCM	Delta-T Computation Mode	FULL	
DTF	Delta-T Fluid	189	US/F
DTM	Delta-T Matrix	56	US/F
DWCO	Digitizer Word Count 0	500	
DWCO	Digitizer Word Count	500	
FCF	CBL Fluid Compensation Factor	0.9	
GAI	Manual Gain	40	
GOBO	Good Bond	2	MV
ITTS	Integrated Transit Time Source	DT	
MCI	Minimum Cemented Interval for Isolation	1.4478	M
MGAI	Maximum Gain	3500	
MODE	Firing Mode	CBL	
MSA	Minimum Sonic Amplitude	0.643961	MV
NMSG	Near Minimum Sliding Gate	248	US
RATE	Firing Rate	R15	
RMOD	Receiver Mode	B	
SFAF	Sonic Formation Attenuation Factor	0	DB/M
SGAD	Sliding Gate	ON	
SGDT	Sliding Gate Delta-T	50	US/F
SGW	Sliding Gate Width	80	US
SLEV	Signal Level for AGC	5000	MV
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DT	
SWW	Sonic Window Width	13	MS
T0CA	T0 Correction	ON	
TSIG	Test Signal	OFF	
VDLG	VDL Manual Gain	5	
VDLM	VDL Firing Mode	UTFR	
WAGC	Waveform AGC	ON	
WGAI	Waveform Manual Gain WGAI	20	
WGDT	Waveform Gain Delta-T	240	US/F
WGIN	Waveform Gain Interval	4800	US
WMOD	Waveform Firing Mode	NONE	
CNT-H: Compensated Neutron - H			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	100	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	YES	
DPPM	Density Porosity Processing Mode	STAN	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	15	DEGC
SOCN	Standoff Distance	0.5	IN
SOCO	Standoff Correction Option	NO	
CAL-Y: Casing Anomaly Locator - Y			
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	0.3	V
System and Miscellaneous			
ALDTPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	8.500	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	14.00	LB/F
DFD	Drilling Fluid Density	1.00	G/C3
MST	Mud Sample Temperature	-50000.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	-50000	M
TDD	Total Depth - Driller	-50000.00	M
TDL	Total Depth - Logger	-50000.00	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

OP System Version: 11C0-305

MCM

SDT-C	11C0-305	CNT-H	11C0-305
TCC-B	11C0-305	CAL-Y	11C0-305

Output DLIS Files

DEFAULT	SONIC_CNL_002LUP	FN:1	PRODUCER	30-Jun-2005 21:18
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MAXIS EXPRESS

Schlumberger

Analisis de Repetibilidad en Tramo sin Correccion

Company: Well:

Input DLIS Files

DEFAULT	SONIC_CNL_003PUP	FN:2	PRODUCER	30-Jun-2005 21:25	1230.8 M	1173.2 M
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Output DLIS Files

DEFAULT	SONIC_CNL_004LUP	FN:3	PRODUCER	30-Jun-2005 21:26
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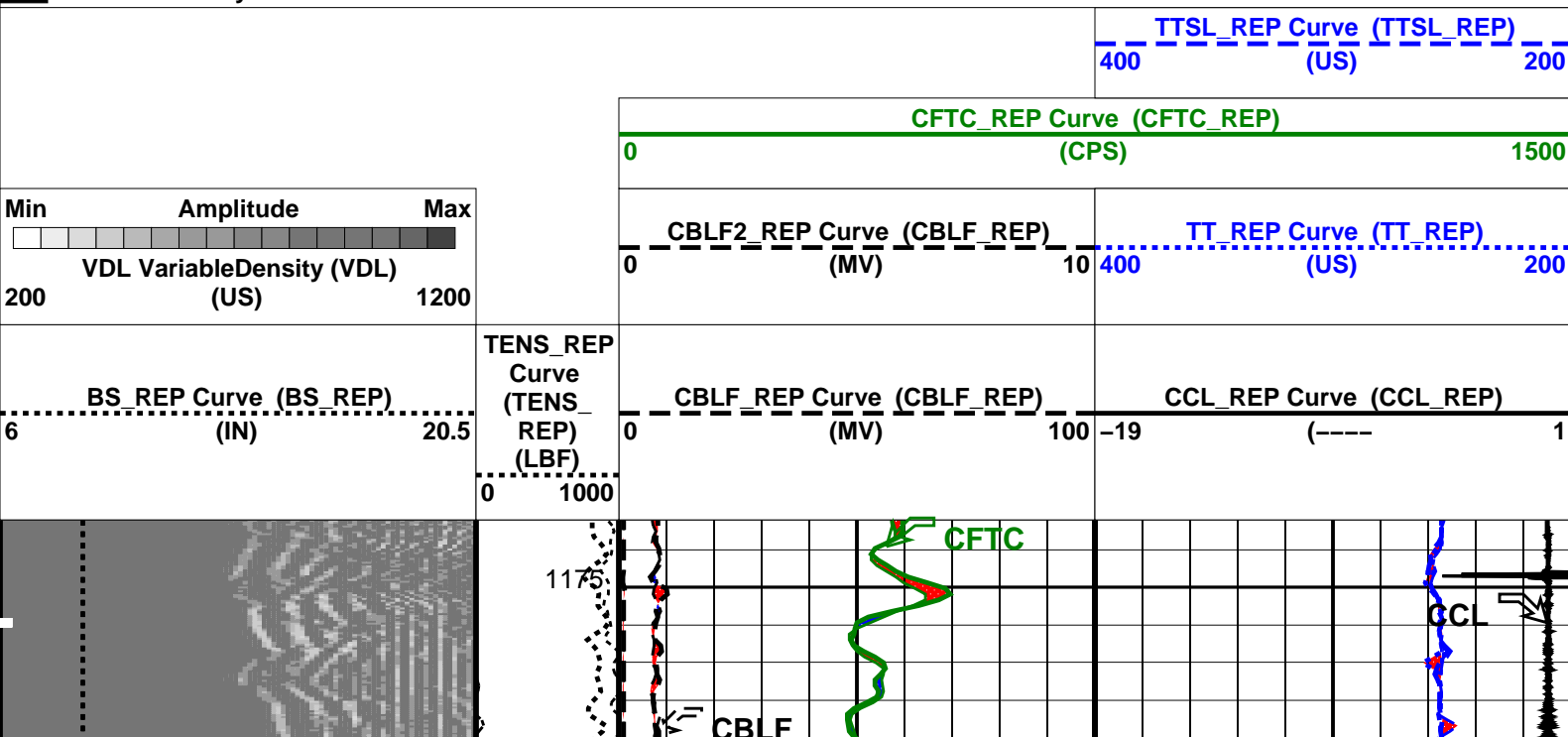
OP System Version: 11C0-305

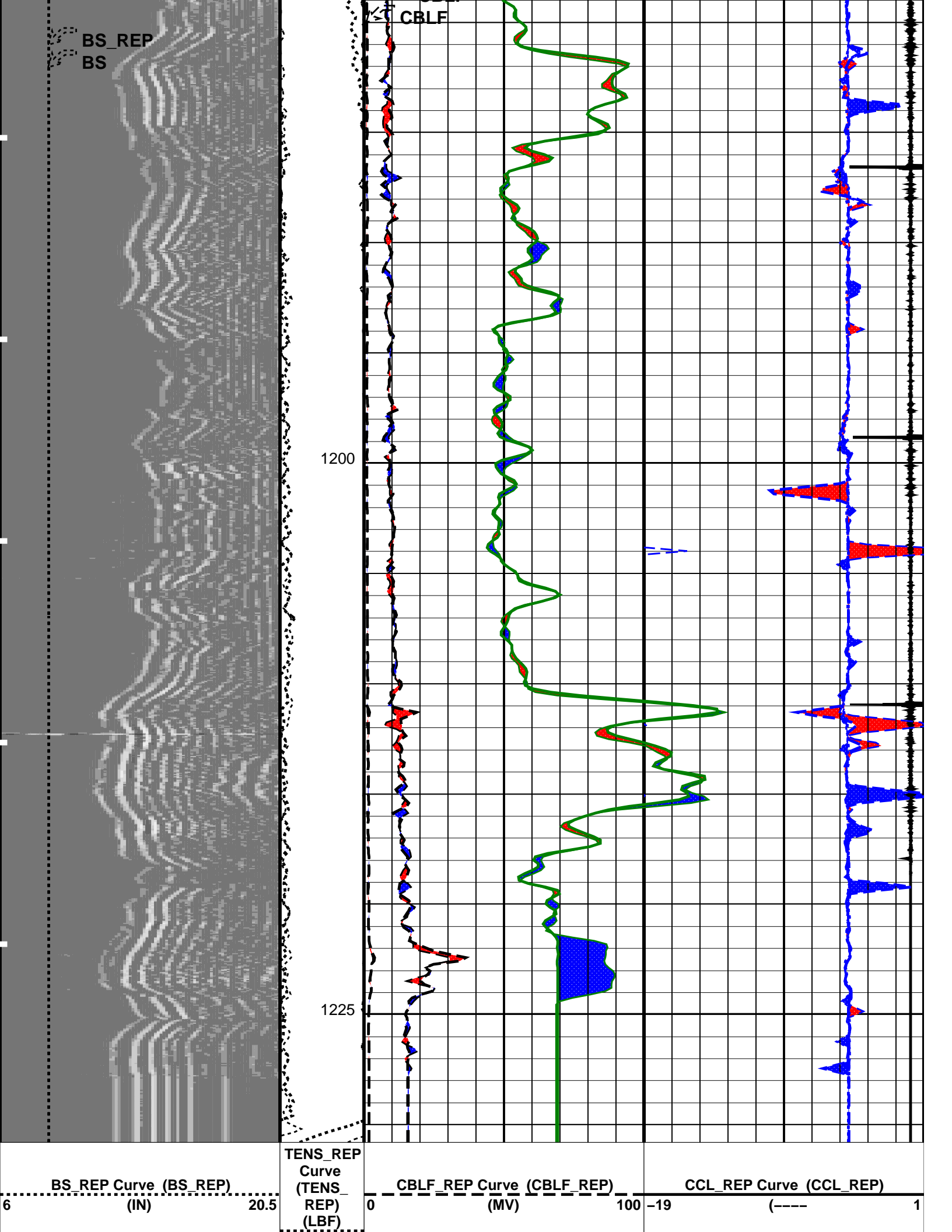
MCM

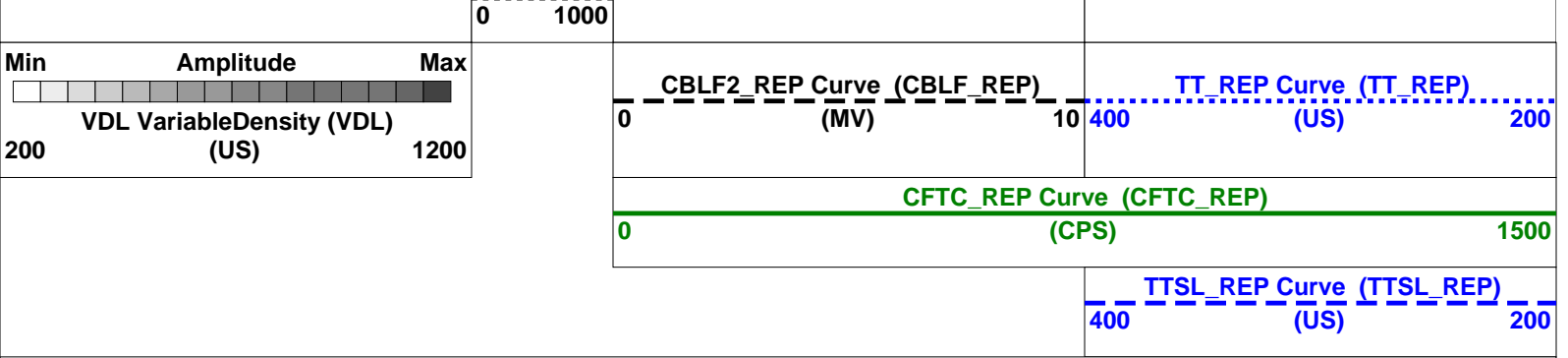
SDT-C	11C0-305	CNT-H	11C0-305
TCC-B	11C0-305	CAL-Y	11C0-305

PIP SUMMARY

Time Mark Every 60 S







PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
SDT-C: Sonic Digital - C		
AGC	Automatic Gain Control	ON
AMSG	Auxilliary Minimum Sliding Gate	140 US
ASGL	Auxilliary Minimum Sliding Gate Width	100 US
BILI	Bond Index Level for Zone Isolation	0.8
CBLG	CBL Gate Width	40 US
CDDEL	Digitizing Delay (Acq Monitor Checked)	200 US
CDSIN	Digitizer Sample Interval (Acq Monitor Checked)	DS10
CDS	C-Delta-T Shale	100 US/F
CDWCO	Digitizer Word Count (Acq Monitor Checked)	500
CRMOD	Receiver Mode (Acq Monitor Checked)	B
CSTR	Compressive Strength of Cement	13789.5 KPAA
CVDLM	VDL Firing Mode (Acq Monitor Checked)	UTFR
CWMOD	Waveform Firing Mode (Acq Monitor Checked)	NONE
DDE0	Digitizing Delay 0	200 US
DDEL	Digitizing Delay	200 US
DDMG	Downhole Differential Multi-Gain	10
DETE	Detection	E1
DSIO	Digitizer Sample Interval 0	10 US
DSIN	Digitizer Sample Interval	DS10
DTCM	Delta-T Computation Mode	FULL
DTF	Delta-T Fluid	189 US/F
DTM	Delta-T Matrix	56 US/F
DWCO	Digitizer Word Count 0	500
DWCO	Digitizer Word Count	500
FCF	CBL Fluid Compensation Factor	0.9
GAI	Manual Gain	40
GOBO	Good Bond	2 MV
ITTS	Integrated Transit Time Source	DT
MCI	Minimum Cemented Interval for Isolation	1.4478 M
MGAI	Maximum Gain	3500
MODE	Firing Mode	CBL
MSA	Minimum Sonic Amplitude	0.643961 MV
NMSG	Near Minimum Sliding Gate	248 US
RATE	Firing Rate	R15
RMOD	Receiver Mode	B
SFAF	Sonic Formation Attenuation Factor	0 DB/M
SGAD	Sliding Gate	ON
SGDT	Sliding Gate Delta-T	50 US/F
SGW	Sliding Gate Width	80 US
SLEV	Signal Level for AGC	5000 MV
SPFS	Sonic Porosity Formula	RAYMER_HUNT
SPSO	Sonic Porosity Source	DT
SWW	Sonic Window Width	13 MS
T0CA	T0 Correction	ON
TSIG	Test Signal	OFF
VDLG	VDL Manual Gain	5
VDLM	VDL Firing Mode	UTFR
WAGC	Waveform AGC	ON
WGAI	Waveform Manual Gain WGAI	20
WGDT	Waveform Gain Delta-T	240 US/F
WGIN	Waveform Gain Interval	4800 US
WMOD	Waveform Firing Mode	NONE
CNT-H: Compensated Neutron - H		
BHFL	Borehole Fluid Type	WATER
BHS	Borehole Status	CASED
BHT	Bottom Hole Temperature (used in calculations)	100 DEGC
BSCO	Borehole Salinity Correction Option	NO
CCCO	Casing & Cement Thickness Correction Option	YES
DPPM	Density Porosity Processing Mode	STAN
FSAL	Formation Salinity	-5000 PPM
FSOC	Formation Salinity Correction Option	NO

FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	15	DEGC
SOCN	Standoff Distance	0.5	IN
SOCO	Standoff Correction Option	NO	
CAL-Y: Casing Anomaly Locator - Y			
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	0.3	V
System and Miscellaneous			
ALTDPC	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	8.500	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	14.00	LB/F
DFD	Drilling Fluid Density	1.00	G/C3
DORL	Depth Offset for Repeat Analysis	0.0	M
MST	Mud Sample Temperature	-50000.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	-50000	M
TDD	Total Depth - Driller	-50000.00	M
TDL	Total Depth - Logger	-50000.00	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: CBL_Fluid_Compensated_REP Vertical Scale: 1:200 Graphics File Created: 30-Jun-2005 21:26

OP System Version: 11C0-305
MCM

SDT-C	11C0-305	CNT-H	11C0-305
TCC-B	11C0-305	CAL-Y	11C0-305

Input DLIS Files

DEFAULT	SONIC_CNL_003PUP	FN:2	PRODUCER	30-Jun-2005 21:25	1230.8 M	1173.2 M
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Output DLIS Files

DEFAULT	SONIC_CNL_004LUP	FN:3	PRODUCER	30-Jun-2005 21:26
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MAXIS EXPRESS



CALIBRACION

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Compensated Neutron - H Wellsite Calibration - Zero Measurement							
Master: 31-Mar-2005 11:43 Before: 29-Jun-2005 19:09							

CNTC Background	1.000	0	0.5509	N/A	N/A	N/A	CPS
CFTC Background	0	0	3.598	N/A	N/A	N/A	CPS

Compensated Neutron – H Wellsite Calibration – Jig Measurement

Master: 31-Mar-2005 11:58 Before: 29-Jun-2005 19:14

CNTC Jig	2821	2821	2790	N/A	N/A	N/A	CPS
CFTC Jig	1169	1169	1171	N/A	N/A	N/A	CPS
CNTC/CFTC (Jig)	2.412	2.412	2.382	N/A	N/A	N/A	

The CNT Master Calibration Was Done With The Following Parameters :

NCT-B Water Temperature 15.0 DEGC.
Thermal Housing Size 3.375 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	3625
Neutron Detector without Alpha Source	CND – NA	
Compensated Neutron Box	CNB – AB	3625

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	CFTC Background CPS	Value
Master		0	Master		0
Before		0.5509	Before		3.598
	-0.010000 (Minimum) 1.000 (Nominal) 5.000 (Maximum)			-0.010000 (Minimum) 0 (Nominal) 5.000 (Maximum)	
Master: 31-Mar-2005 11:43			Before: 29-Jun-2005 19:09		

Compensated Neutron – H Wellsite Calibration

Jig Measurement

Phase	CNTC Jig CPS	Value	Phase	CFTC Jig CPS	Value	Phase	CNTC/CFTC (Jig)	Value
Master		2821	Master		1169	Master		2.412
Before		2790	Before		1171	Before		2.382
	2679 (Minimum) 2821 (Nominal) 2962 (Maximum)			1111 (Minimum) 1169 (Nominal) 1228 (Maximum)			2.372 (Minimum) 2.412 (Nominal) 2.452 (Maximum)	
Master: 31-Mar-2005 11:58			Before: 29-Jun-2005 19:14					

Compania: **YPF S.A.**

Schlumberger

Pozo: **YPF.Ch.LC-668**

Campo: **LA CAROLINA**

Provincia: **CHUBUT**

Pais: **ARGENTINA**

CONTROL DE CEMENTO

POZO: LC-668

ZONA: La Carolina

AREA: M. BEHR

FECHA: 01/07/2005

EQUIPO PI-246

OBJETIVO:

BAJAR INSTALACION DE PRODUCCION (PCP)

Fondo Pozo: 1234

DISEÑO A BAJAR:

TBG

1 BAR COLLAR 2 7/8" a +- 1 TBG FILTRO 2 7/8" 1 TBG LISO 2 7/8"	1180 mts
1 ANCLA DE TORQUE 2.7/8X5.1/2" 1 NIPLE DE PARO 1 ESTATOR GEREMIA 28-35-300	1160 mts 1155 mts
1 TBG LISO 2 7/8" 1 CAMISA DE CIRCULACIÓN AOS 1 TBG LISO 2 7/8" 1 NIPLE ASIEN TO BHD 2 7/8"	1145 mts 1135
119 TBG 2. 7/8"	

B/B

- 1 ROTOR GEREMIA 28-35-300 (PROVEE WEATHERFORD)
- 152 BARRAS DE BOMBEO 7/8" (GRADO D)
TROZOS 1"
- 1 VASTAGO BOMBEO 1.1/4" x 10'

NOTA

**ANTES DE BAJAR DISEÑO CALIBRAR ROTOR PCP EN CAMISA DE CIRCULACIÓN Y BHD
PEDIR CON 2 hs ANTICIPACION PERSONAL WEATHERFORD P/ AJUSTE MEDIDA**

CABEZAL

**"VÁLVULA DE 2" Y NIPLE DE 2" REALIZAR RESERVA Y RETIRAR DE ALMACENES MB"
"VÁLVULA DE 1/2" Y NIPLE DE 1/2" REALIZAR RESERVA Y RETIRAR DE ALMACENES MB"
M2 (PROVEE WEATHERFORD)
VASTAGO PROVEE WEATHERFORD
LA BOMBA SERA ENVIADA POR WEATHERFORD AL POZO
ARRANCAR A 100 RPM**

MOTOR

**20 HP
1000 V**



P.E.P.	
ORDEN INTERNA:	
PRESUPUESTO IAP US\$:	
PRESUPUESTO WO US\$:	
ACTUAL US\$:	

PROYECTO :		AREA:	MANANTIALES BEHR
ESTADO ACTUAL :		Yacimiento:	LA CAROLINA
OBJETIVO :	TERMINACIÓN	POZO:	LC-668
FECHA INICIO :	30 de Junio 2005	Equipo :	PRIDE INTERNAT.-246
FECHA FINAL :	03 de Julio 2005	Coordenadas X:	4.946.409,00
RESULTADO :	PRODUCTOR DE PETROLEO	Coordenadas Y:	2.571.899,00
ESTADO FINAL :		Cota:	427,00

Coordenadas Pampa del Castillo (Faja 2)

Pozo Comprometido del Proyecto					Estimación de Caudal Inicial	Qbruto (m3/día):	34,20
Pozo Tipo [m3]	Éxito	Ql Oil [m3/d]	Ql con risk [m3/d]	Responsable Propuesta		Qneto (m3/día):	18,07
					% AGUA:	47	

FLUIDO DE TERMINACIÓN: Agua Dulce con MARCAT 0,4 % (MARBAR)

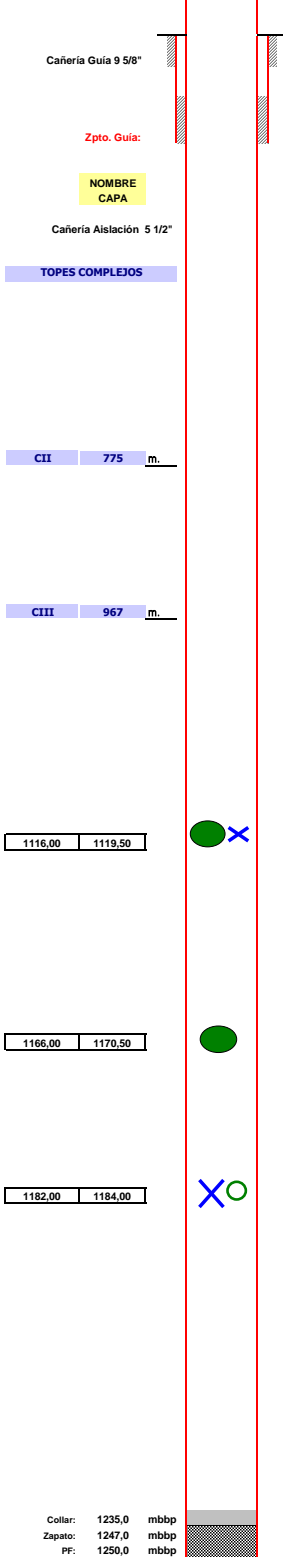
Plan de Trabajos:
 Montar equipo de RTP de acuerdo a procedimientos
 Sacar instalación de producción
 Calibrar con fresa de superficie hasta fondo de pozo (Collar).
 Punzar según se indica en programa
 Ensayar por pistoneo las capas con el orden establecido arriba.
 Si resulta sin entrada probar admisión y reensayar
 Extraer muestras de hidrocarburo o agua de todos los ensayos para análisis geoquímico
 En caso de ser gas y/o petróleo surgente medir presiones por distintos orificios a determinar por Ing. De Producción y tomar muestra.
 Bajar instalación de producción según diseño proporcionado por Ing. De Producción. Bajar solamente instalación de tubing (varillas de bombeo se desmontan)
 Desmontar equipo

COMPANIAS	
Cable	
Cementación	
Punzado	
Fractura	
Acido	
Motor Fondo	
Pasca	
Goles	
Densificantes	
Inhibidores	
Neutrón	
Filtrado	
Cuerda explos.	
Fresas	
Trepamos	

Prof. Inducción	Total
PUNZADOS	0
Tope	Base

Secuencia Ensayos

Petrofísica				Ensayos de capa				Análisis de Fluido					QBr	QNet	
Hu [m]	Swi %	Øeff %	Presión [kg/cm2]	% PN	CAUDAL [lts/hs]	FLUIDO	Nivel [m]	Horas Fm	I.T. %	DEN [gr/cm3]	Temp [°C]	% AGUA SEP	SAL [gr/lts]	[m3/día]	[m3/día]
1116,00					3000	PCA	850	6	47,0	0,815	25,0	47,0	3,0	21,60	11,45
					5 carr/hr	Sumerg	266								
1166,00					1150	PCA	957	6	20,0	0,890	28,0	19,0	4,0	8,28	6,62
					2 carr/hr	Sumerg	209								
1182,00					600	ASFcRP visc	978	8	100,0	SD	26,0	100,0	4,2	4,32	0,00
					1 carr/hr	Sumerg	204								
					Agua de formacion con leve rastro de pileo viscoso										
														34,20	18,07



Instalación Final:

Collar: 1235,0 mbbp
 Zapato: 1247,0 mbbp
 PF: 1250,0 mbbp

Responsable de los datos cargados

LABORATORIO
BASE CHUBUT



EPSILON S.R.L.
LABORATORIO INDUSTRIAL

Ruta 3 Km. 1838, Bo. Gral. Mosconi - (9005) C. Rivadavia - Chubut, Argentina - Tel/Fax: (0297)- 4550825/4559365

Muestra de: Producción

Lugar de Muestreo: LC-668

Zona: S/D

Extraída por: Cliente.

Fecha de Extracción: S/D

Fecha de Recepción: 30/08/2012

Solicitado por : YPF -Sosa Marcelo.

Objetivo del Control: Análisis completo de petróleo

PROTOCOLO Nº: 5132-12CR

Fecha Informe: 07/09/2012

Pag. 1/1

INFORME DE ENSAYO

PETROLEO HIDRATADO

DETERMINACION	NORMA	UNIDAD	VALOR
%AT (%AL+D4007)	S/N	% v/v	61
%Agua Libre			53
IMPUREZA TOTAL	ASTM D-4007 Mod según acuerdo con cliente	% v/v	18
ARENA Y BARRO			0
AGUA SEPARADA			10
EMULSION			8
AGUA EXACTA			18
DENSIDAD DE PETROLEO A 15°C	ASTM D-5002	grs/cm3	0,9498
PUNTO DE ESCURRIMIENTO	ASTM D-97	° C	3

PETROLEO DESHIDRATADO

DETERMINACION	NORMA	UNIDAD	VALOR
DENSIDAD DE PETROLEO A 15°C	ASTM D-5002	grs/cm3	0,9377
% PARAFINA	UOP-86 mod	% v/v	8
% ASFALTENO	SPE-23810	% v/v	14

VISCOSIDAD 300RPM

TEMPERATURA		POR REOMETRO	Cp	
	30°C			3913
	40°C			2040
	50°C			1137

Analista: R.D. / L.G / B.M.

OBSERVACIONES:

.....
Mario Faibiscob
Rep.Tec.Epsilon SRL

Interpretación Petrofísica

Company	YPF S.A.
Well Name	YPF.Ch.LC-668
Field	LA CAROLINA-Manantiales Behr
Country	ARGENTINA
Location	State CHUBUT

Interpretó: René E. Hudecek
Terminación Junio 2005

Petrophysical Zone Averages Report

Reservoir Summary

Zn #	Zone Name	Top	Bottom	Gross	Net	N/G	Av Phi	Av Sw	Av Vcl Ari	Phi*H	PhiSo*H
1	Pet+Ag	1116.00	1119.50	3.50	3.50	1.000	0.251	0.493	0.100	0.88	0.44
2	Pet	1166.00	1170.50	4.50	4.50	1.000	0.220	0.653	0.150	0.99	0.34
3	AgcRP	1182.00	1184.00	2.00	2.00	1.000	0.229	0.596	0.133	0.46	0.19
All Zones		1116.00	1184.00	10.00	10.00	1.000	0.233	0.582	0.129	2.33	0.97

Pay Summary

Zn #	Zone Name	Top	Bottom	Gross	Net	N/G	Av Phi	Av Sw	Av Vcl Ari	Phi*H	PhiSo*H
1	Pet+Ag	1116.00	1119.50	3.50	2.90	0.827	0.262	0.454	0.090	0.76	0.41
2	Pet	1166.00	1170.50	4.50	2.28	0.506	0.227	0.598	0.131	0.52	0.21
3	AgcRP	1182.00	1184.00	2.00	1.68	0.838	0.234	0.564	0.122	0.39	0.17
All Zones		1116.00	1184.00	10.00	6.85	0.685	0.243	0.524	0.111	1.67	0.79

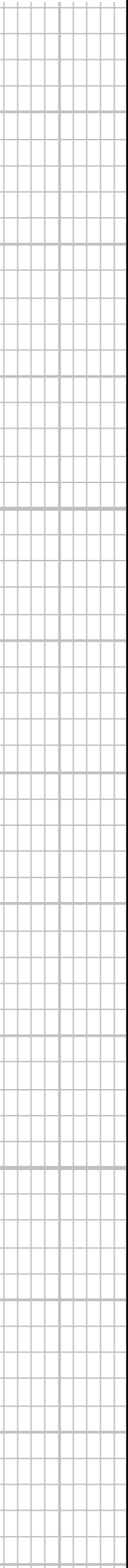
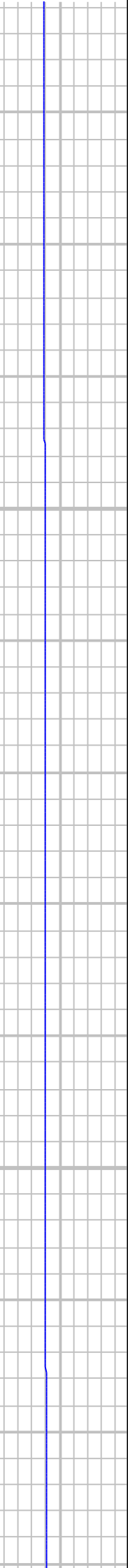
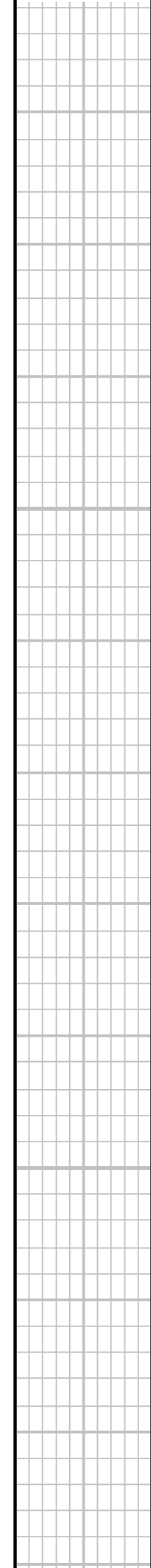
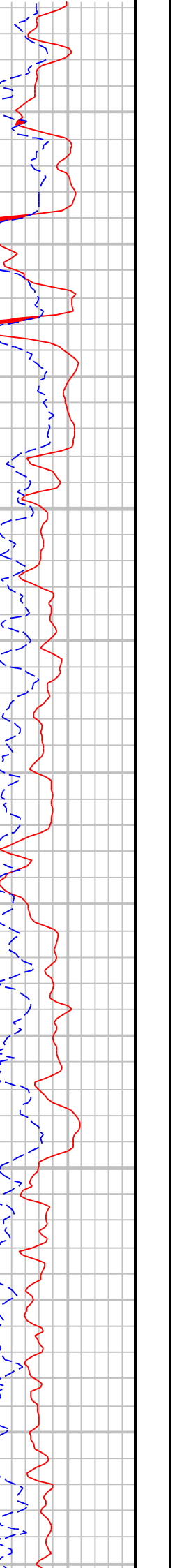
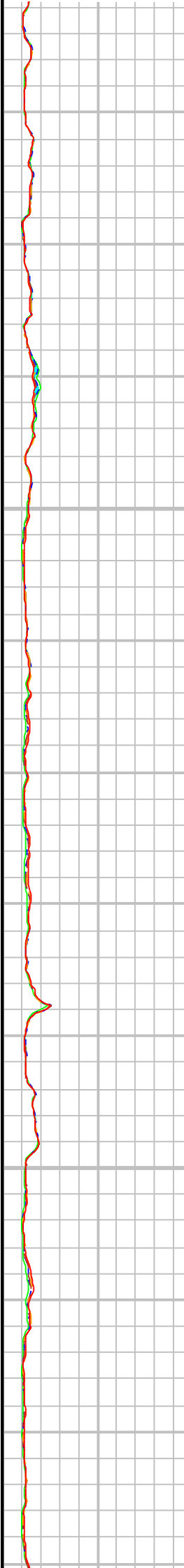
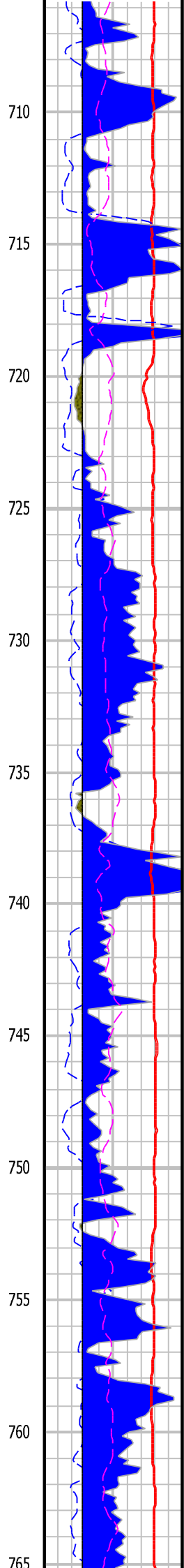
Cutoffs Used

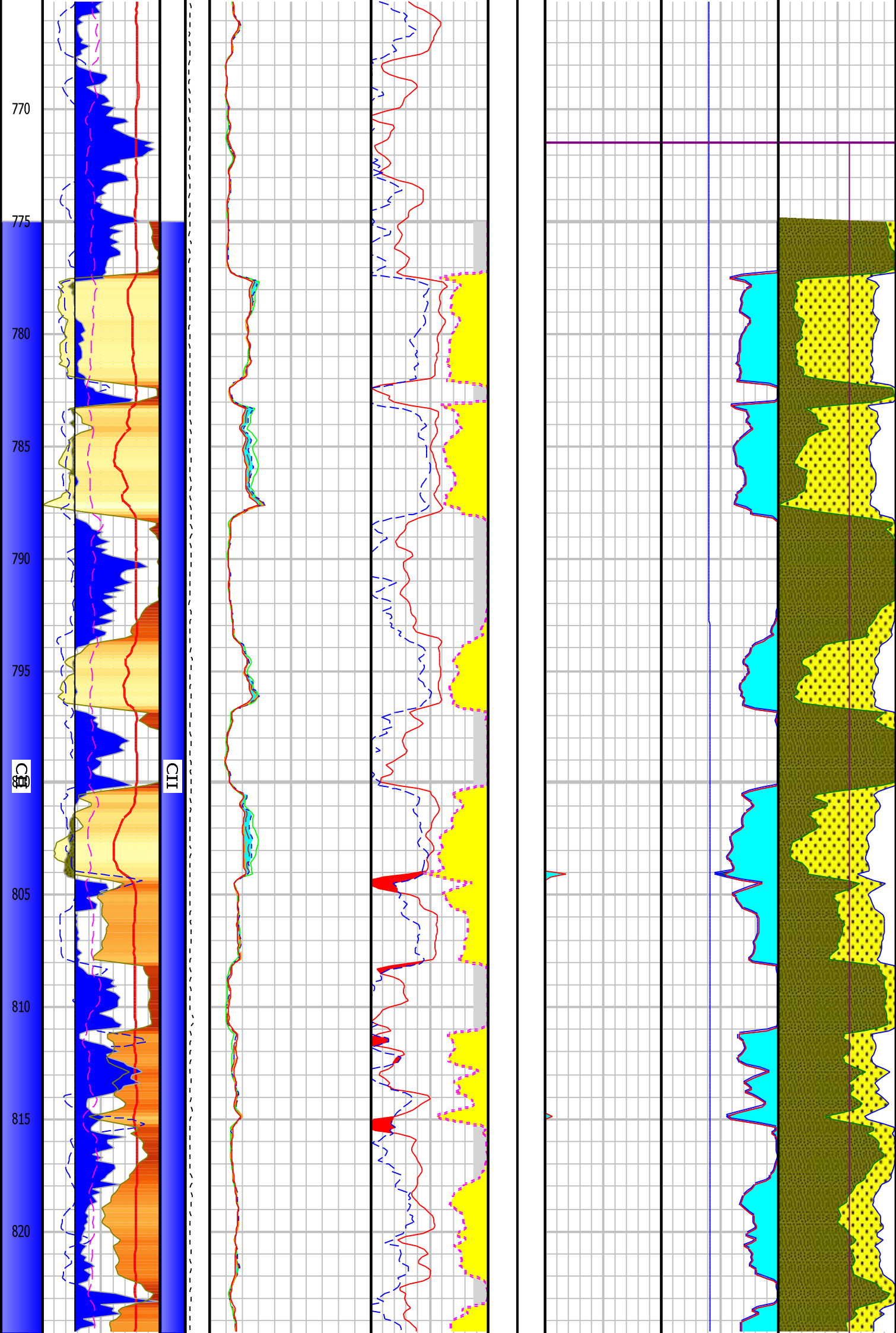
Zn #	Zone Name	Top	Bottom	Min. Height	Phi INTERP:PHIE	Sw INTERP:SW	Vcl INTERP:VCL
Reservoir							
1	Pet+Ag	1116.00	1119.50	0	>= 0.08		<= 0.3
2	Pet	1166.00	1170.50	0	>= 0.08		<= 0.3
3	AgcRP	1182.00	1184.00	0	>= 0.08		<= 0.3
Pay							
1	Pet+Ag	1116.00	1119.50	0	>= 0.08	<= 0.65	<= 0.3
2	Pet	1166.00	1170.50	0	>= 0.08	<= 0.65	<= 0.3
3	AgcRP	1182.00	1184.00	0	>= 0.08	<= 0.65	<= 0.3

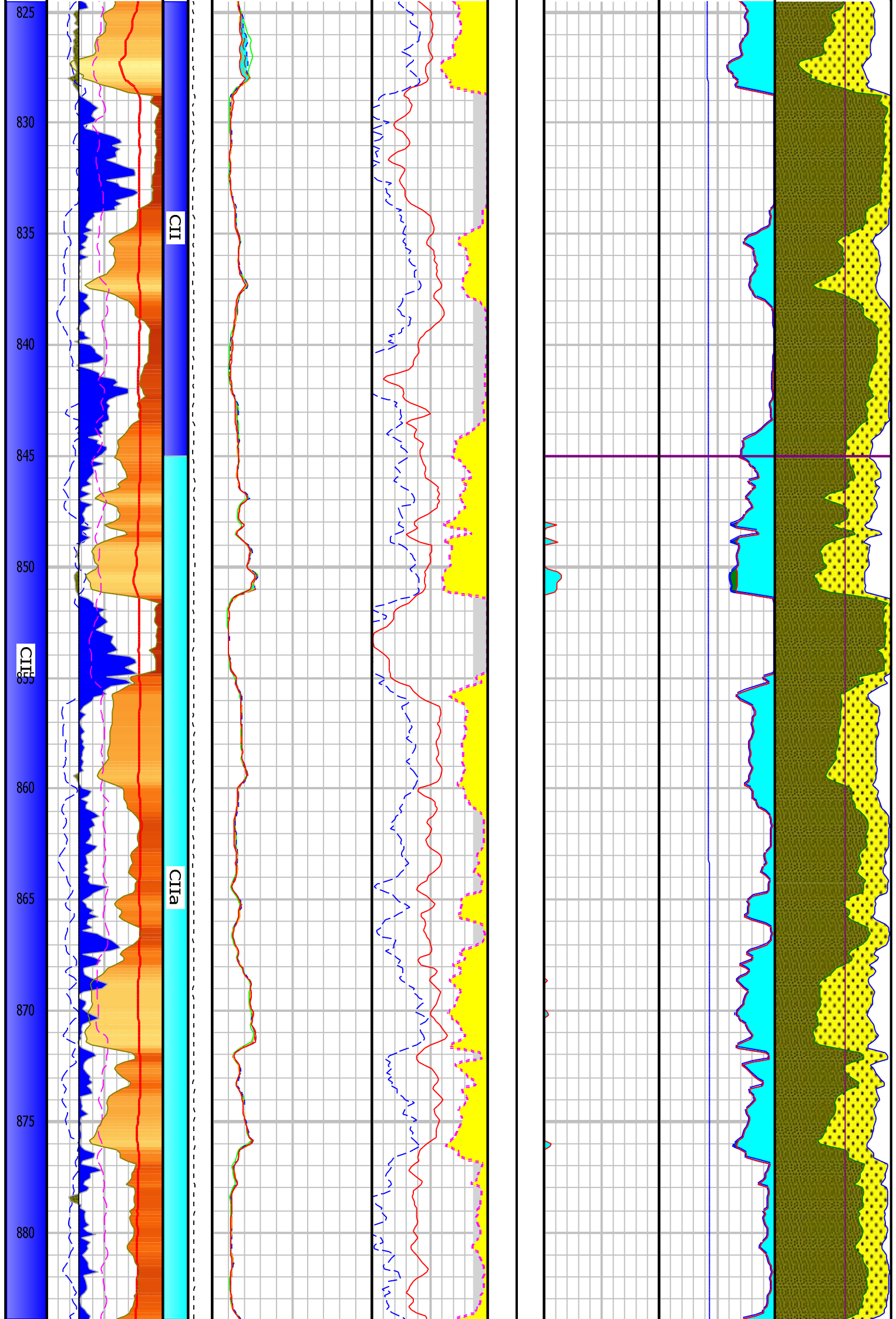
Depth Units : m

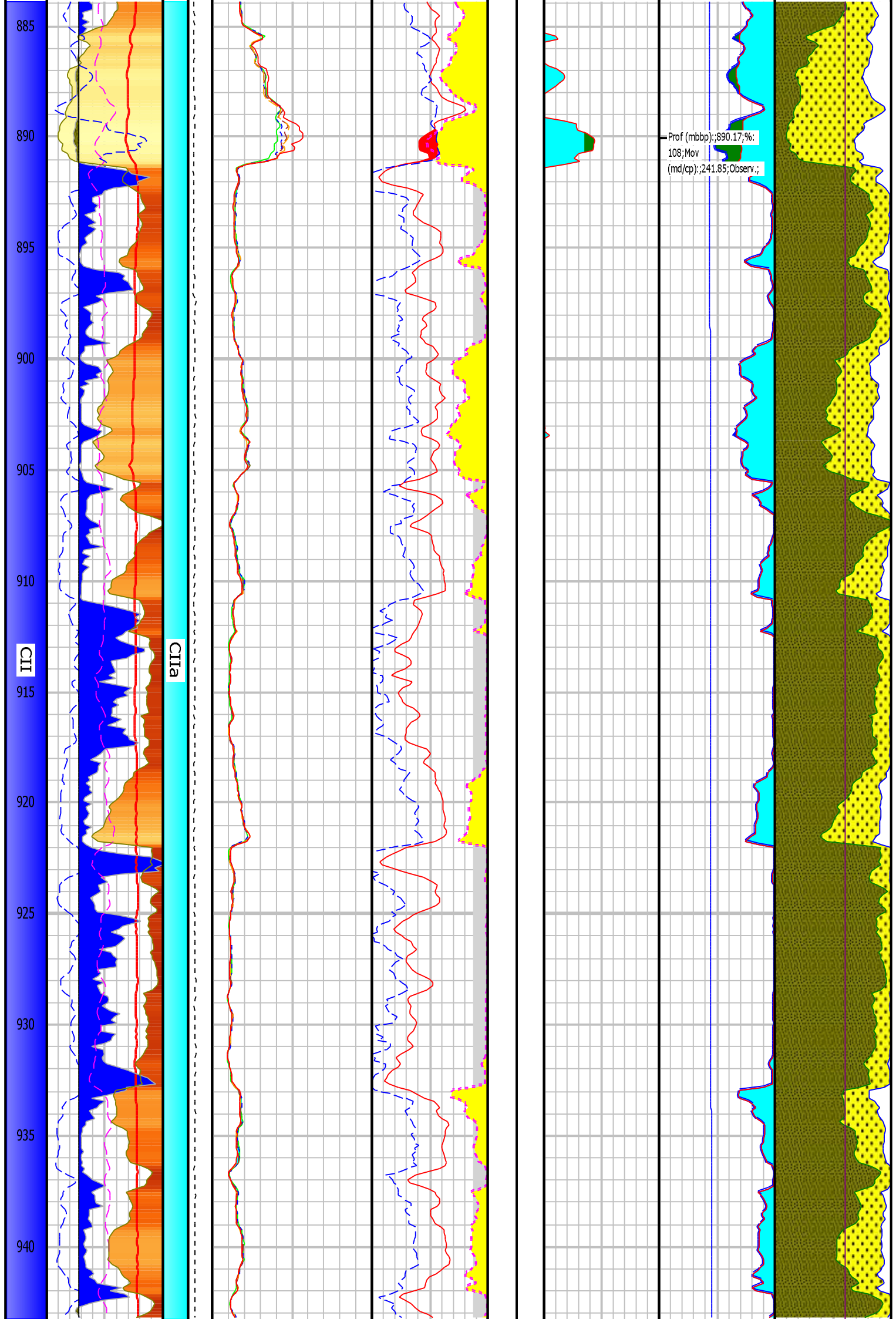
CLAY VOLUME PARAMETERS

Top	SP Clean	Res Clean
Bottom	SP Clay	Res Clay
775	-21	2.96
845	1	1.26
845	-12	7.06
970	1	1.15
967	-15	13.9
1037.84	1	1.39
1037.84	-25	29
1195.88	1	1.29
1195.88	-23.3	11.6
1254.1	1	1.54







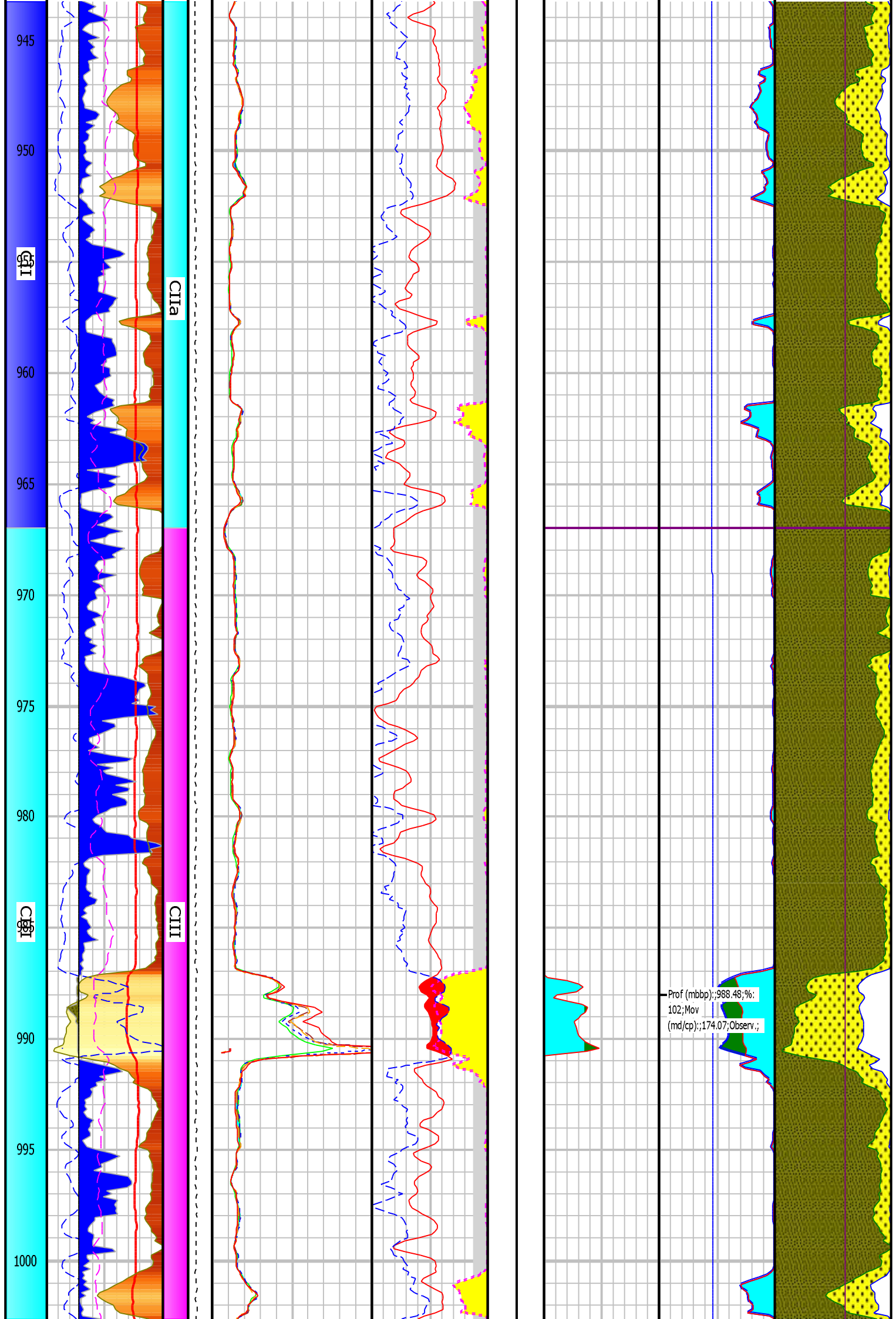


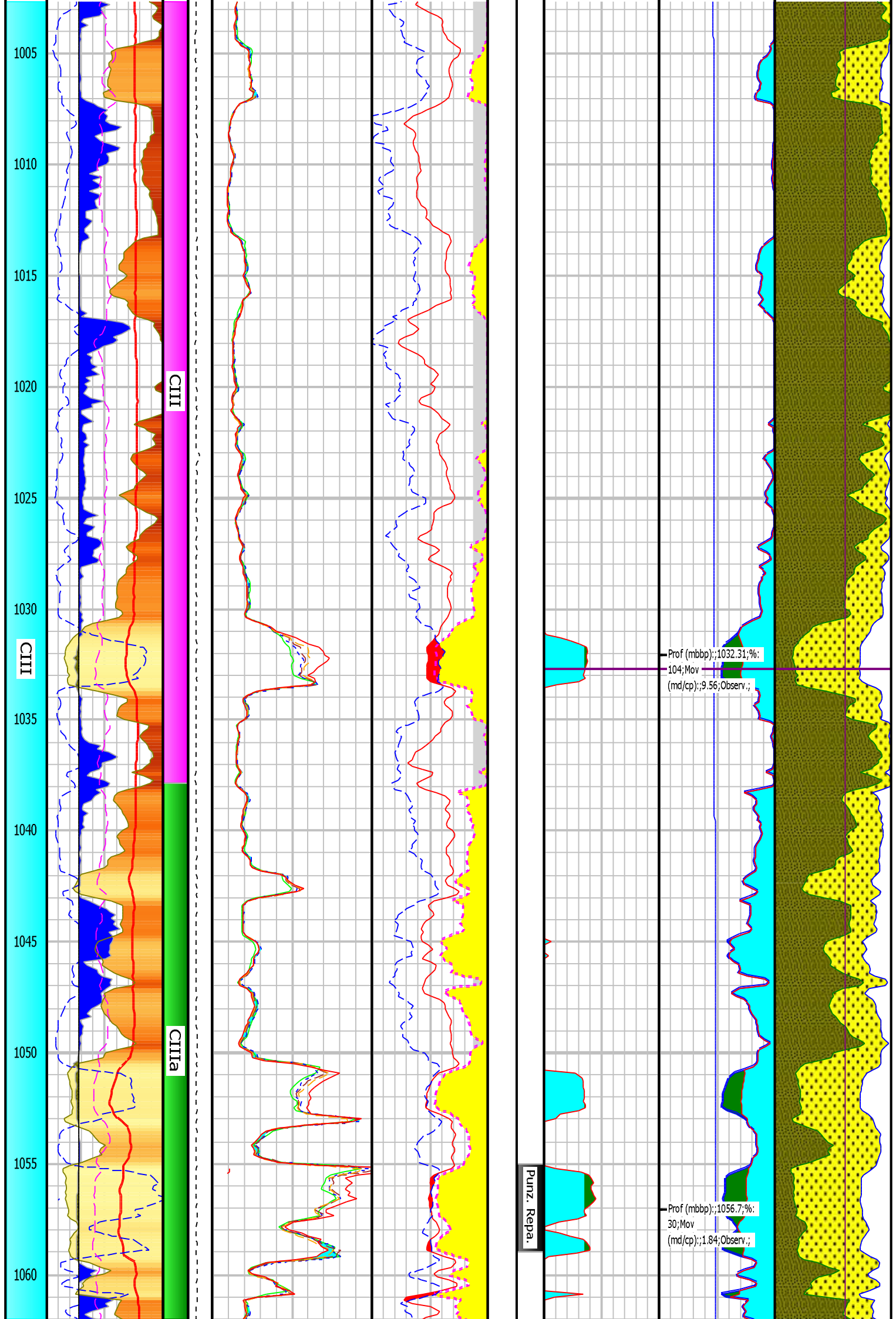
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890
895
900
905
910
915
920
925
930
935
940

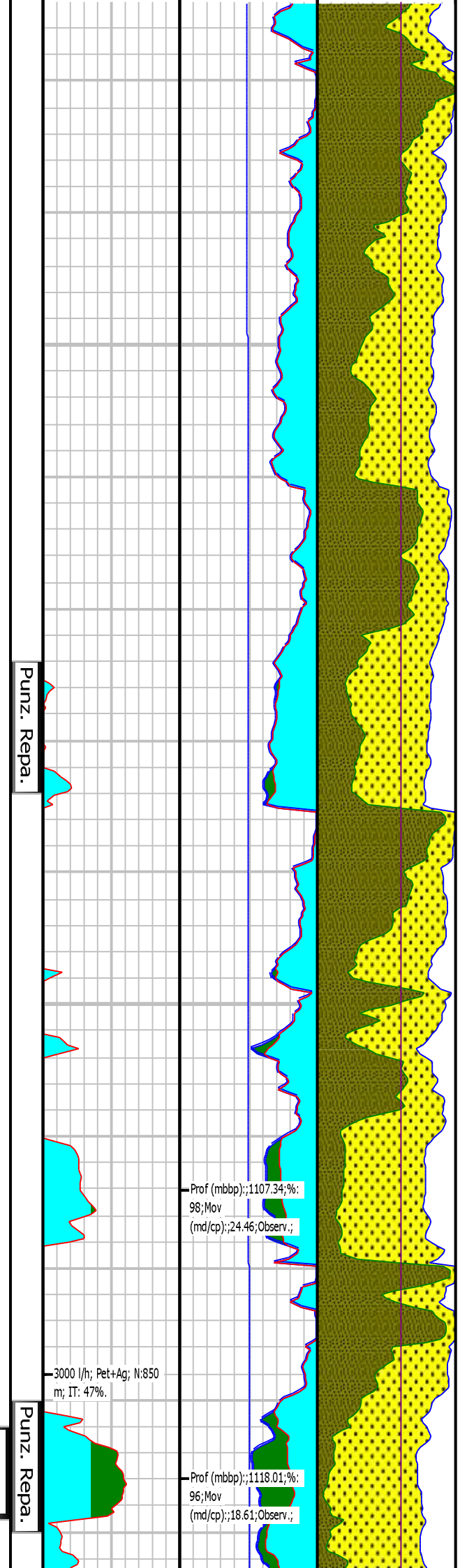
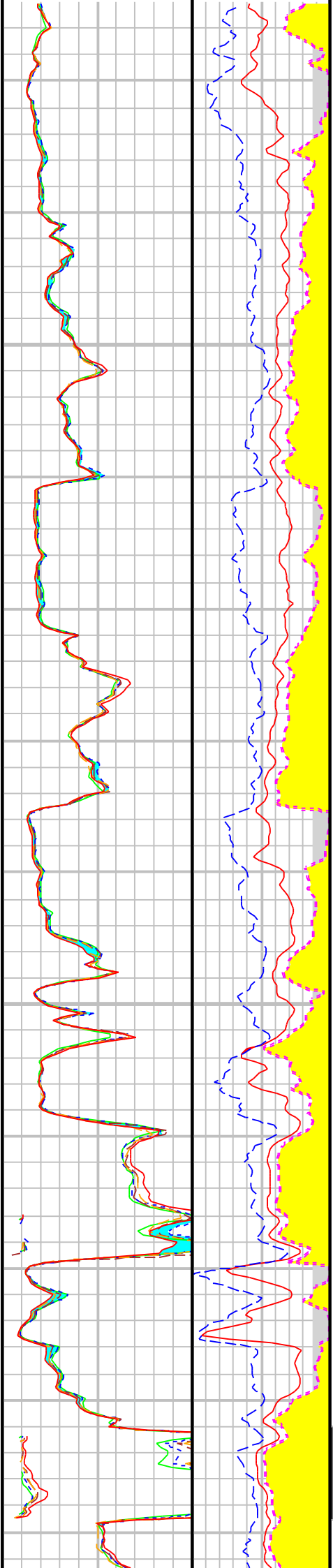
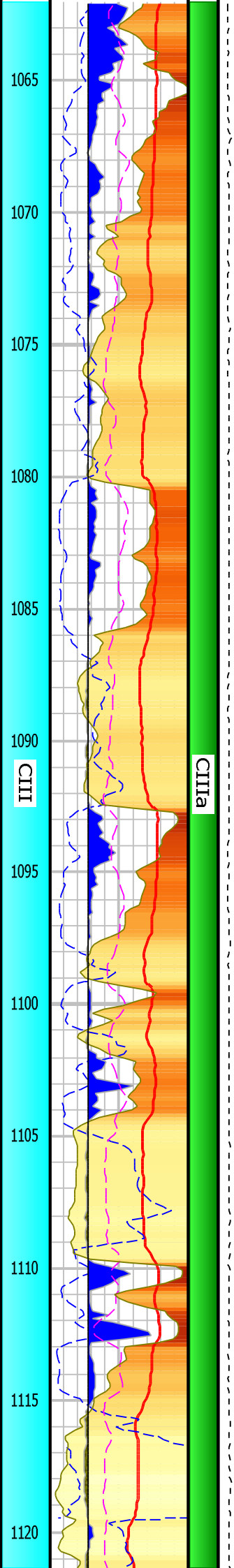
CII

CIIa

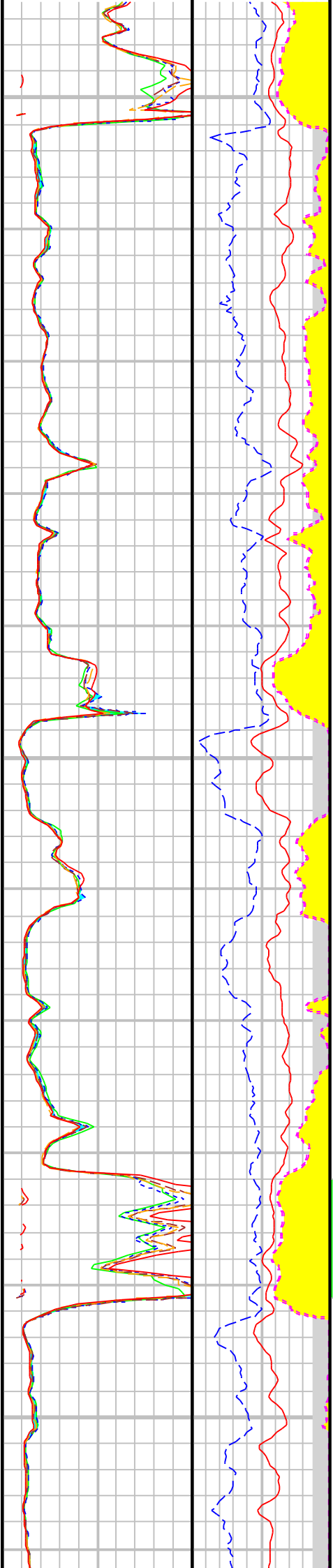
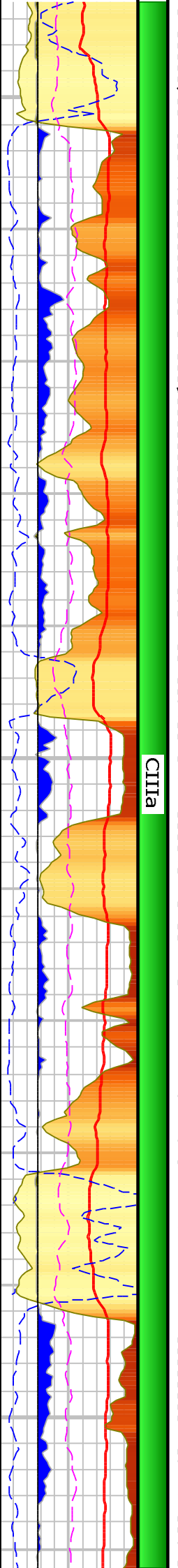
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108;Mov
(md/cp);;241.85;Observ;,







1125
1130
1135
1140
1145
1150
1155
1160
1165
1170
1175
1180



Punz. Repra.

Pet
Punz. Repra.

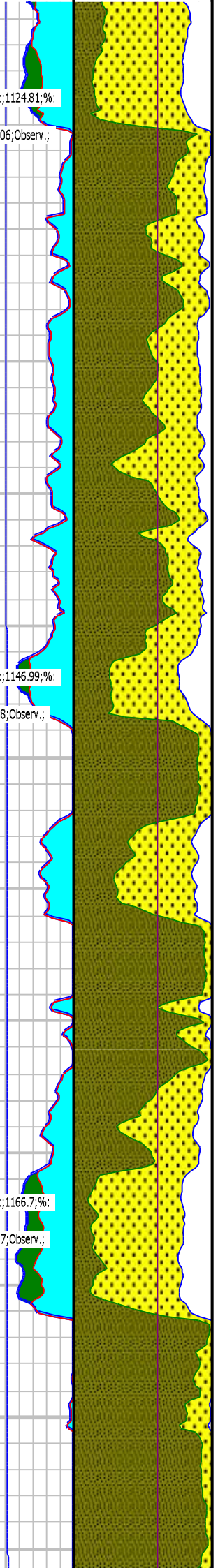
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120;Mov
(md/cp);;1.68;Observ.;

1150 l/h; Pet+Ag; N: 957
m; IT: 20%.

Prof (mbbp);;1166.7;%:
96;Mov
(md/cp);;42.7;Observ.;

600 l/h; ASFcLRP; N: 978



Petrophysical Zone Averages Report

Well : YPF.Ch.LC-668

Date : 09/09/2014 17:28:31

Reservoir Summary

Zn #	Zone Name	Top	Bottom	Gross	Net	N/G	Av Phi	Av Sw	Av Vcl Ari	Phi*H	PhiSo*H	
	1 Punz. Repa.		1055	1059	4	4	1	0,235	0,674	0,189	0,94	0,31
	2 Punz. Repa.		1087	1092	5	3,93	0,787	0,189	0,947	0,251	0,74	0,04
	3 Punz. Repa.		1115	1120	5	4,66	0,932	0,244	0,574	0,126	1,14	0,49
	4 Punz. Repa.		1122	1126	4	3,86	0,964	0,197	0,782	0,173	0,76	0,17
	5 Punz. Repa.		1166	1170,5	4,5	4,5	1	0,22	0,653	0,15	0,99	0,34
	All Zones		1055	1170,5	22,5	20,95	0,931	0,218	0,707	0,175	4,57	1,34

Pay Summary

Zn #	Zone Name	Top	Bottom	Gross	Net	N/G	Av Phi	Av Sw	Av Vcl Ari	Phi*H	PhiSo*H	
	1 Punz. Repa.		1055	1059	4	2,44	0,61	0,257	0,598	0,174	0,63	0,25
	2 Punz. Repa.		1087	1092	5	0	0	---	---	---	---	---
	3 Punz. Repa.		1115	1120	5	2,9	0,579	0,262	0,454	0,09	0,76	0,41
	4 Punz. Repa.		1122	1126	4	0,61	0,152	0,222	0,632	0,141	0,14	0,05
	5 Punz. Repa.		1166	1170,5	4,5	2,28	0,506	0,227	0,598	0,131	0,52	0,21
	All Zones		1055	1170,5	22,5	8,22	0,365	0,248	0,547	0,13	2,04	0,92

Cutoffs Used

Zn #	Zone Name	Top	Bottom	Min. Height	Phi INTERP:PHIE	Sw INTERP:SW	Vcl INTERP:VCL
Reservoir							
	1 Punz. Repa.		1055	1059	0 >= 0.08		<= 0.3
	2 Punz. Repa.		1087	1092	0 >= 0.08		<= 0.3
	3 Punz. Repa.		1115	1120	0 >= 0.08		<= 0.3
	4 Punz. Repa.		1122	1126	0 >= 0.08		<= 0.3
	5 Punz. Repa.		1166	1170,5	0 >= 0.08		<= 0.3
Pay							
	1 Punz. Repa.		1055	1059	0 >= 0.08	<= 0.65	<= 0.3
	2 Punz. Repa.		1087	1092	0 >= 0.08	<= 0.65	<= 0.3
	3 Punz. Repa.		1115	1120	0 >= 0.08	<= 0.65	<= 0.3
	4 Punz. Repa.		1122	1126	0 >= 0.08	<= 0.65	<= 0.3
	5 Punz. Repa.		1166	1170,5	0 >= 0.08	<= 0.65	<= 0.3

Depth Units : m

Capas
"Capas" Zones

Well: YPF.Ch.LC-668
Date: 09/10/2014 11:08:43

Zone_Name	Top	Bottom
B190	1050	1053.3
B210	1069.1	1080
B230	1085	1093
B260	1113.3	1119.3
B266	1120	1126
B310	1163.2	1173
B320	1179.6	1185

CLAY VOLUME PARAMETERS

Well : YPF.Ch.LC-668

Date : 09/10/2014 11:07:22

Input Curves

SP : CRUDAS:SPedit Resistivity : CRUDAS:R90

Output Curves

VClay SP : INTERP:VCLSP VClay Resistivity : INTERP:VCLR
VClay minimum : INTERP:VCL VClay average : INTERP:VCLAV
VClay mixed : INTERP:VCLmix

Zone number 1 CII Top : 775.00 Bottom : 845.00

SP Use : Yes SP Clean : -21 SP Clay : 1
Res Use : Yes Res Clean : 2.96 Res Clay : 1.26
Link PhiSw Clay : No Vcl Av Method : Mean Vcl Mix Method : Minimum

Zone number 2 CIIa Top : 845.00 Bottom : 970.00

SP Use : Yes SP Clean : -12 SP Clay : 1
Res Use : Yes Res Clean : 7.06 Res Clay : 1.15
Link PhiSw Clay : No Vcl Av Method : Mean Vcl Mix Method : Minimum

Zone number 3 CIII Top : 967.00 Bottom : 1037.84

SP Use : Yes SP Clean : -15 SP Clay : 1
Res Use : Yes Res Clean : 13.9 Res Clay : 1.39
Link PhiSw Clay : No Vcl Av Method : Mean Vcl Mix Method : Minimum

Zone number 4 CIIIa Top : 1037.84 Bottom : 1195.88

SP Use : Yes SP Clean : -25 SP Clay : 1
Res Use : Yes Res Clean : 29 Res Clay : 1.29
Link PhiSw Clay : No Vcl Av Method : Mean Vcl Mix Method : Minimum

Zone number 5 CIIIb Top : 1195.88 Bottom : 1254.10

SP Use : Yes SP Clean : -23.3 SP Clay : 1
Res Use : Yes Res Clean : 11.6 Res Clay : 1.54
Link PhiSw Clay : No Vcl Av Method : Mean Vcl Mix Method : Minimum

Petrophysical Zone Averages Report

Well : YPF.Ch.LC-668

Date : 09/10/2014 10:29:39

Reservoir Summary

Zn #	Zone Name	Top	Bottom	Gross	Net	N/G	Av Phi	Av Sw	Av Vcl Ari	Phi*H	PhiSo*H
1	Pet+Ag	1116	1119,5	3,5	3,5	1	0,251	0,493	0,1	0,88	0,44
2	Pet	1166	1170,5	4,5	4,5	1	0,22	0,653	0,15	0,99	0,34
3	AgcRP	1182	1184	2	2	1	0,229	0,596	0,133	0,46	0,19
	All Zones	1116	1184	10	10	1	0,233	0,582	0,129	2,33	0,97

Pay Summary

Zn #	Zone Name	Top	Bottom	Gross	Net	N/G	Av Phi	Av Sw	Av Vcl Ari	Phi*H	PhiSo*H
1	Pet+Ag	1116	1119,5	3,5	2,9	0,827	0,262	0,454	0,09	0,76	0,41
2	Pet	1166	1170,5	4,5	2,28	0,506	0,227	0,598	0,131	0,52	0,21
3	AgcRP	1182	1184	2	1,68	0,838	0,234	0,564	0,122	0,39	0,17
	All Zones	1116	1184	10	6,85	0,685	0,243	0,524	0,111	1,67	0,79

Cutoffs Used

Zn #	Zone Name	Top	Bottom	Min. Height	Phi INTERP:PHIE	Sw INTERP:SW	Vcl INTERP:VCL
Reservoir							
1	Pet+Ag	1116	1119,5	0	>= 0.08		<= 0.3
2	Pet	1166	1170,5	0	>= 0.08		<= 0.3
3	AgcRP	1182	1184	0	>= 0.08		<= 0.3
Pay							
1	Pet+Ag	1116	1119,5	0	>= 0.08	<= 0.65	<= 0.3
2	Pet	1166	1170,5	0	>= 0.08	<= 0.65	<= 0.3
3	AgcRP	1182	1184	0	>= 0.08	<= 0.65	<= 0.3

Depth Units : m

Reservorio y Neto

Company	YPF S.A.	
Well Name	YPF.Ch.LC-668	
Field	LA CAROLINA-Manantiales Behr	
Country	ARGENTINA	State CHUBUT
Location		

Petrophysical Zone Averages Report

Reservoir Summary

Zn #	Zone Name	Top	Bottom	Gross	Net	N/G	Av Phi	Av Sw	Av Vcl Ari	Phi*H	PhiSo*H
1	Pet+Ag	1116.00	1119.50	3.50	3.50	1.000	0.251	0.493	0.100	0.88	0.44
2	Pet	1166.00	1170.50	4.50	4.50	1.000	0.220	0.653	0.150	0.99	0.34
3	AgcRP	1182.00	1184.00	2.00	2.00	1.000	0.229	0.596	0.133	0.46	0.19
All Zones		1116.00	1184.00	10.00	10.00	1.000	0.233	0.582	0.129	2.33	0.97

Pay Summary

Zn #	Zone Name	Top	Bottom	Gross	Net	N/G	Av Phi	Av Sw	Av Vcl Ari	Phi*H	PhiSo*H
1	Pet+Ag	1116.00	1119.50	3.50	2.90	0.827	0.262	0.454	0.090	0.76	0.41
2	Pet	1166.00	1170.50	4.50	2.28	0.506	0.227	0.598	0.131	0.52	0.21
3	AgcRP	1182.00	1184.00	2.00	1.68	0.838	0.234	0.564	0.122	0.39	0.17
All Zones		1116.00	1184.00	10.00	6.85	0.685	0.243	0.524	0.111	1.67	0.79

Cutoffs Used

Zn #	Zone Name	Top	Bottom	Min. Height	Phi INTERP:PHIE	Sw INTERP:SW	Vcl INTERP:VCL
Reservoir							
1	Pet+Ag	1116.00	1119.50	0	>= 0.08		<= 0.3
2	Pet	1166.00	1170.50	0	>= 0.08		<= 0.3
3	AgcRP	1182.00	1184.00	0	>= 0.08		<= 0.3
Pay							
1	Pet+Ag	1116.00	1119.50	0	>= 0.08	<= 0.65	<= 0.3
2	Pet	1166.00	1170.50	0	>= 0.08	<= 0.65	<= 0.3
3	AgcRP	1182.00	1184.00	0	>= 0.08	<= 0.65	<= 0.3

Depth Units : m

CLAY VOLUME PARAMETERS

Top Bottom	SP Clean SP Clay	Res Clean Res Clay
775	-21	2.96
845	1	1.26
845	-12	7.06
970	1	1.15
967	-15	13.9
1037.84	1	1.39
1037.84	-25	29
1195.88	1	1.29
1195.88	-23.3	11.6
1254.1	1	1.54

POROSITY WATER SATURATION PARAMETERS

Top	Phi Model	Rw	Rmf	"m"	"a"	Rho HC	Rho Fluid	Rwb	Rh Dry Cly
Bottom	Sw eq.	Rw temp.	Rmf temp.	"n"	OBM ?	Rho Mat	Rho Clay	Rwb temp.	PhiT Clay
771.47	Density	0.345	1.22	1.7	1	0.92	Calc.	0.081	2.323
845	Dual water	CALC:Temp	4	1.91	No	2.6	2.19	CALC:Temp	
845	Density	0.336	1.22	1.7	1	0.92	Calc.	0.079	2.431
967	Dual water	CALC:Temp	4	1.91	No	2.6	2.27	CALC:Temp	
967	Density	0.354	1.22	1.95	1	0.9	Calc.	0.074	2.489
1032.73	Dual water	CALC:Temp	4	1.9	No	2.61	2.334	CALC:Temp	
1032.73	Density	0.345	1.22	1.95	1	0.9	Calc.	0.069	2.515
1196.04	Dual water	CALC:Temp	4	1.9	No	2.61	2.383	CALC:Temp	
1196.04	Density	0.376	1.22	1.95	1	0.9	Calc.	0.066	2.52
1254	Dual water	CALC:Temp	4	1.9	No	2.61	2.394	CALC:Temp	

CRUDAS:SP : Spontaneous Potential
 INTERP:PHIE : Effective Porosity
 INTERP:SW : Water Saturation
 INTERP:VCL : Clay Volume

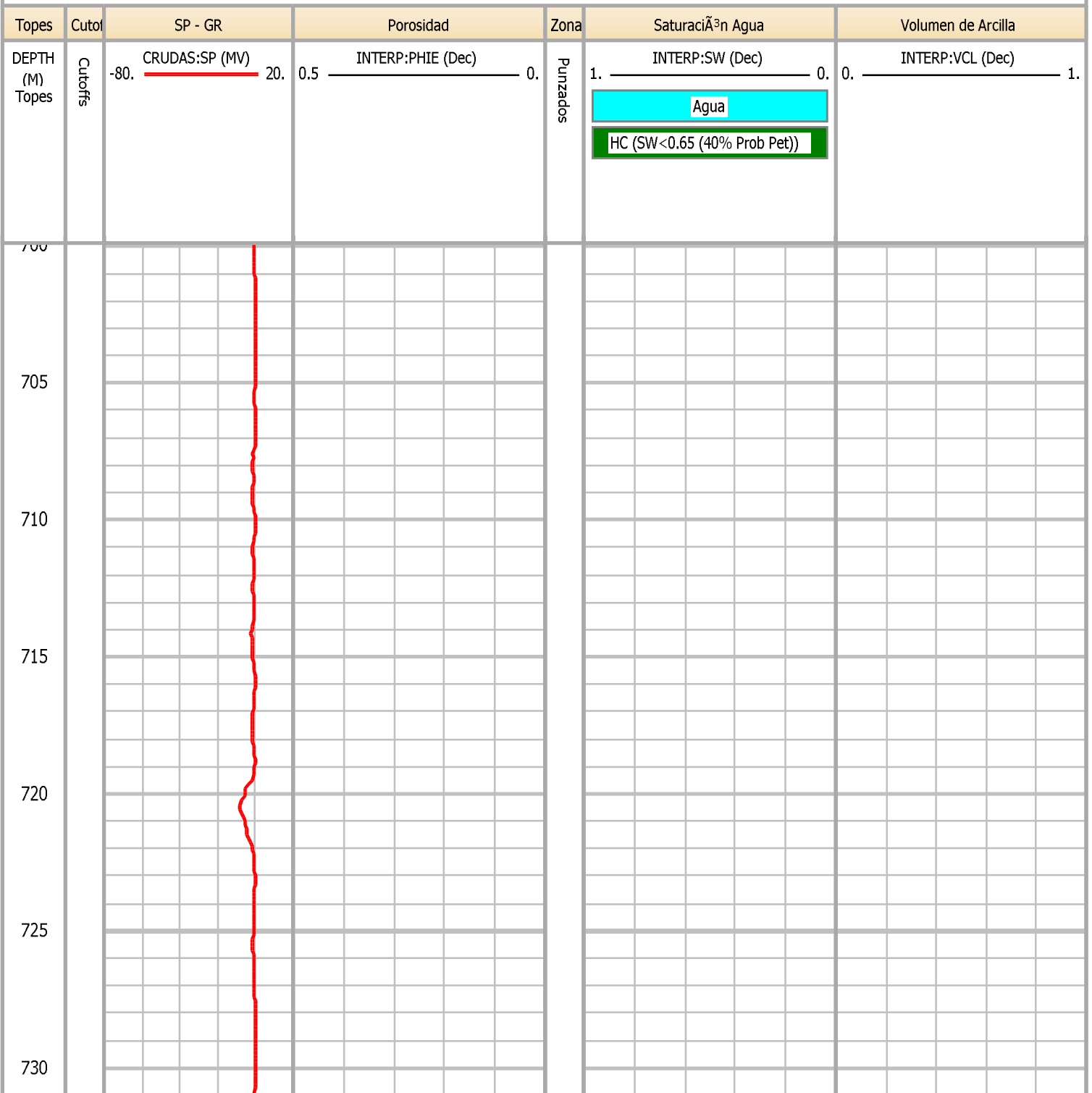
Scale : 1 : 200

YPF.Ch.LC-668

DB : Petrofísica LA CAROLINA SOMERA (7)

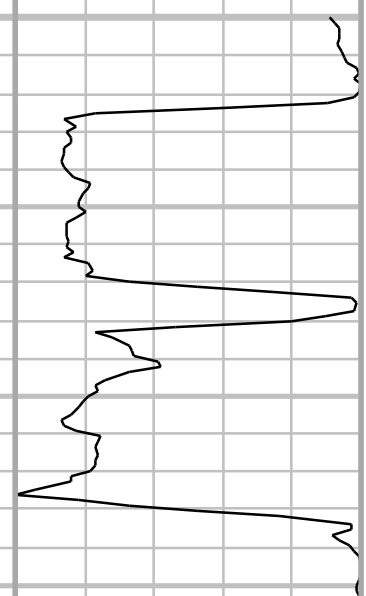
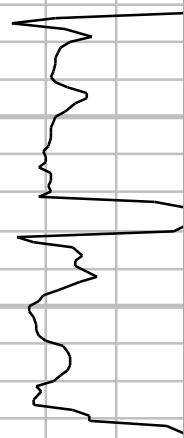
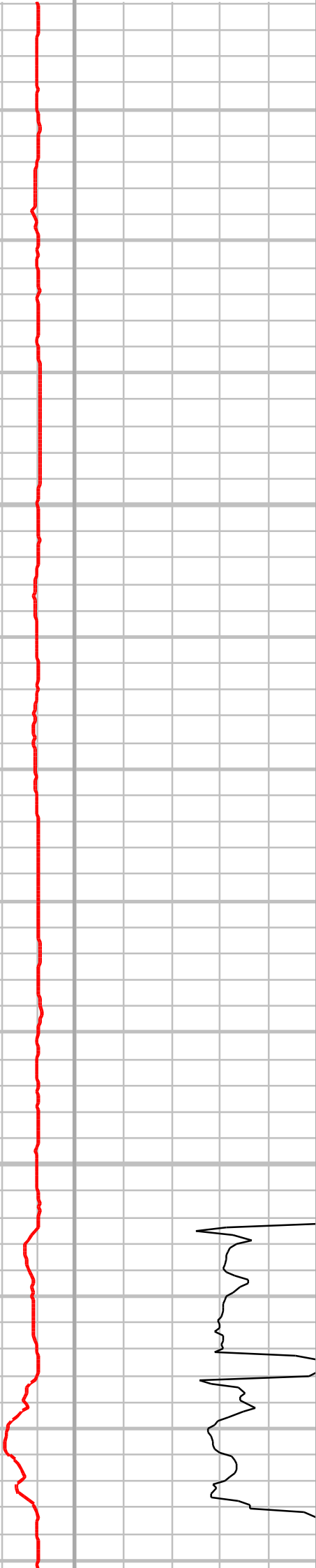
DEPTH (699.97M - 1224.99M)

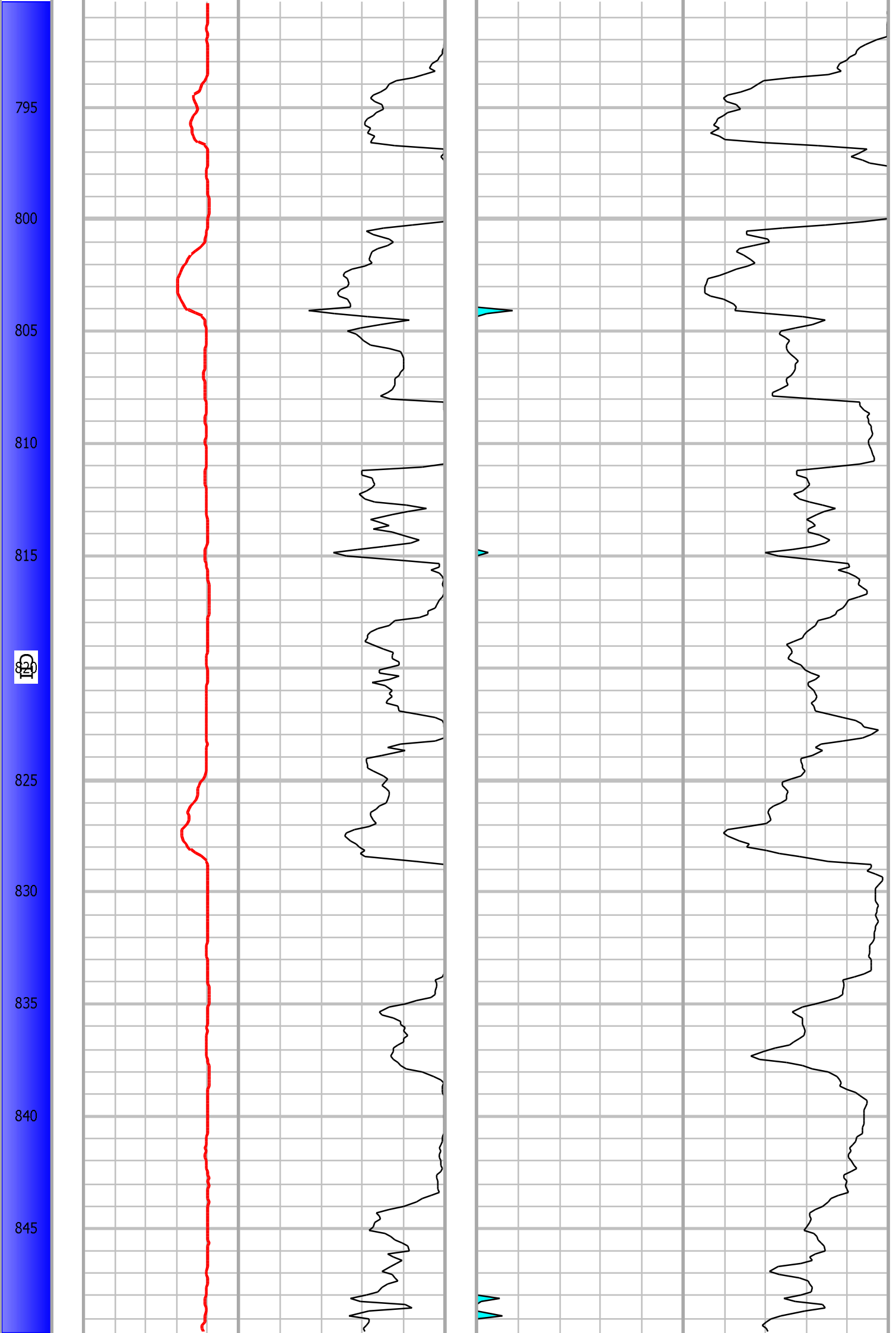
09/10/2014 10:28



735
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790

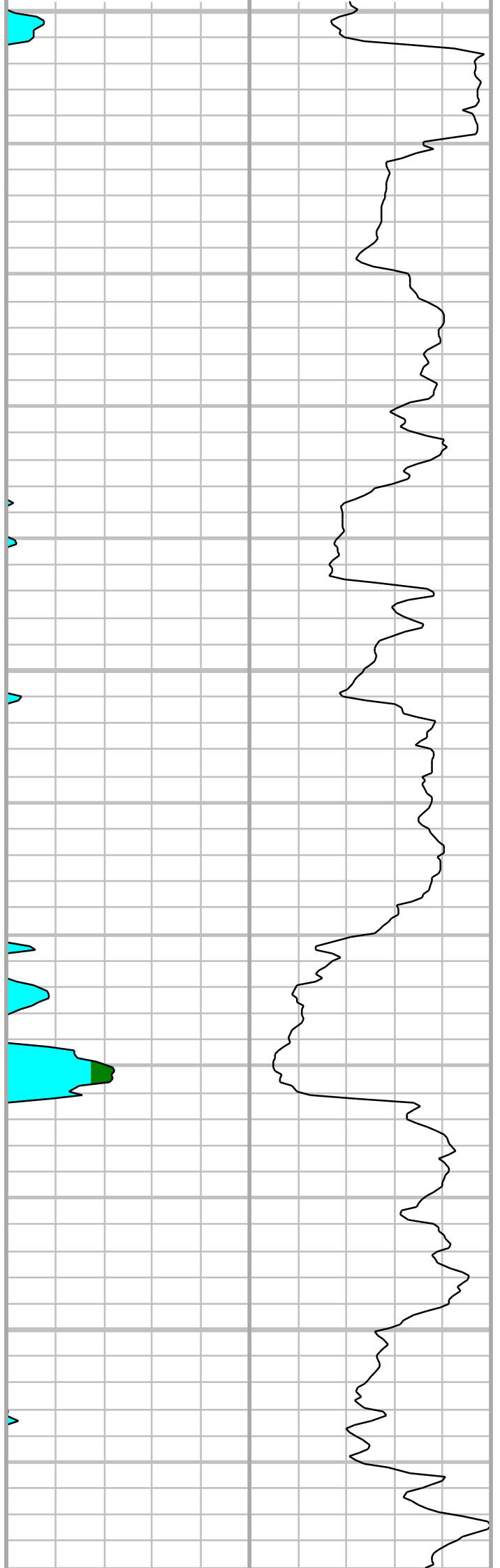
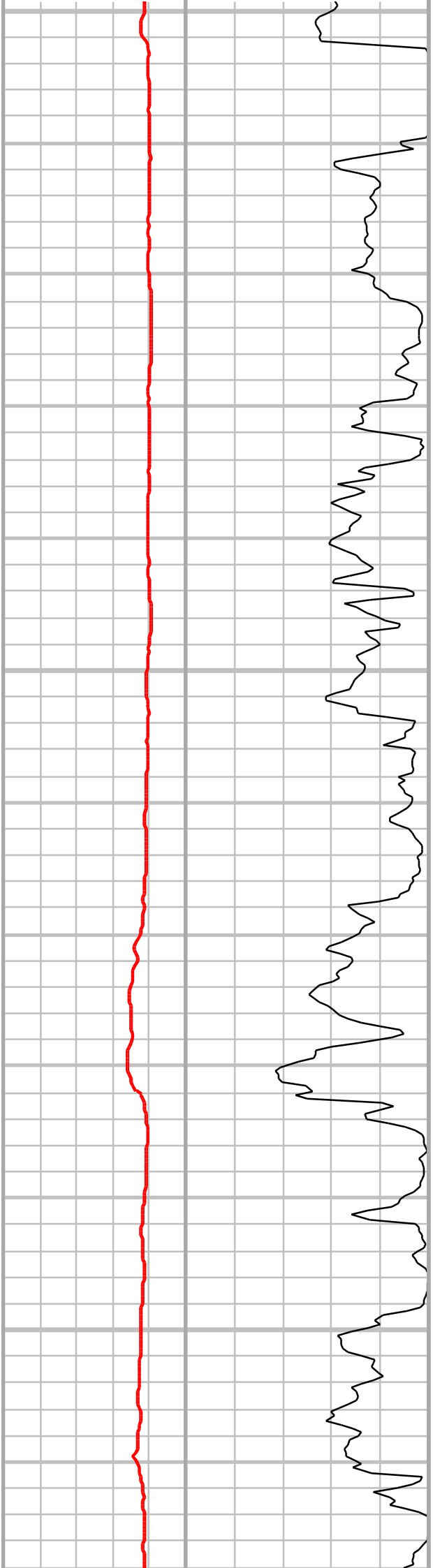
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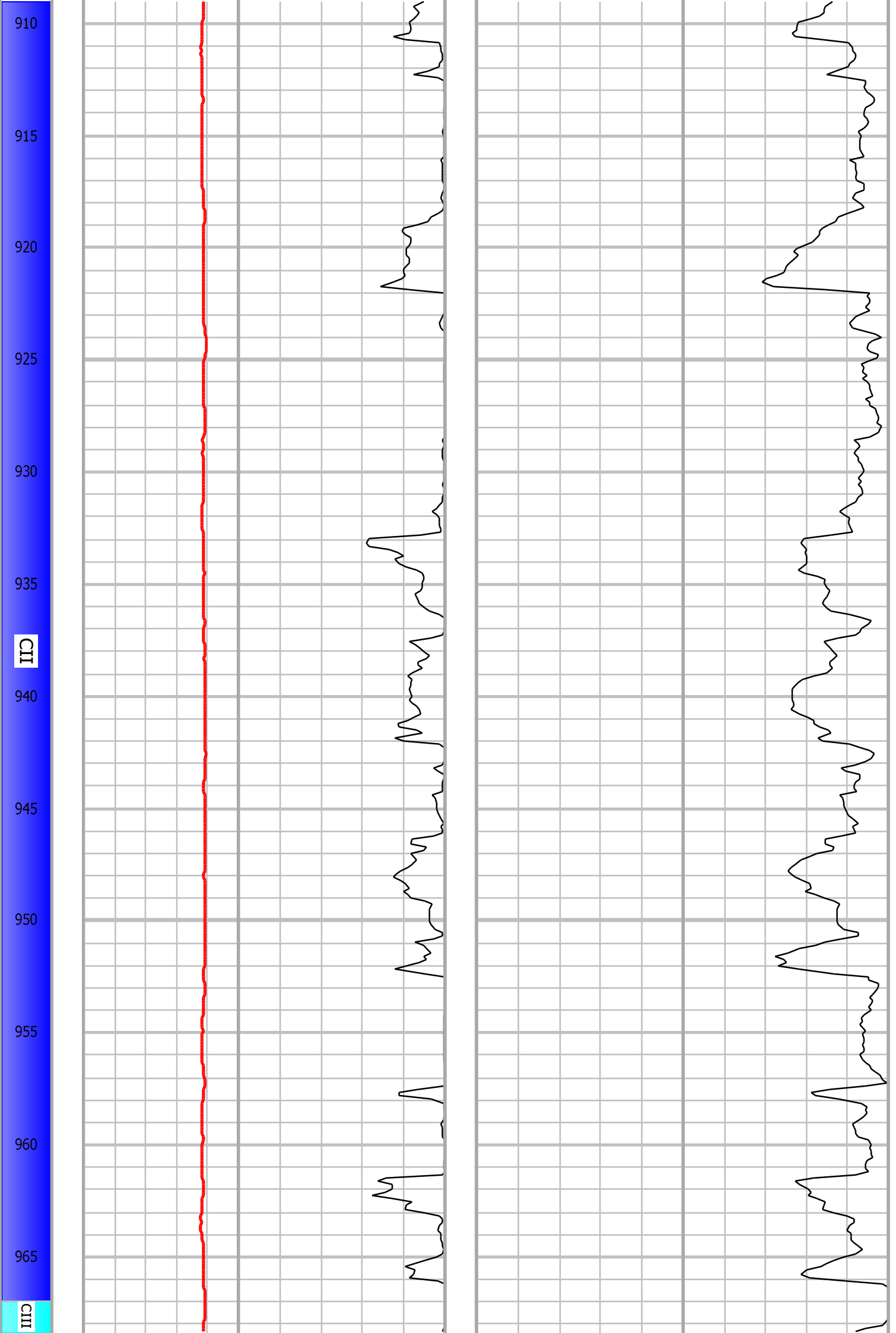


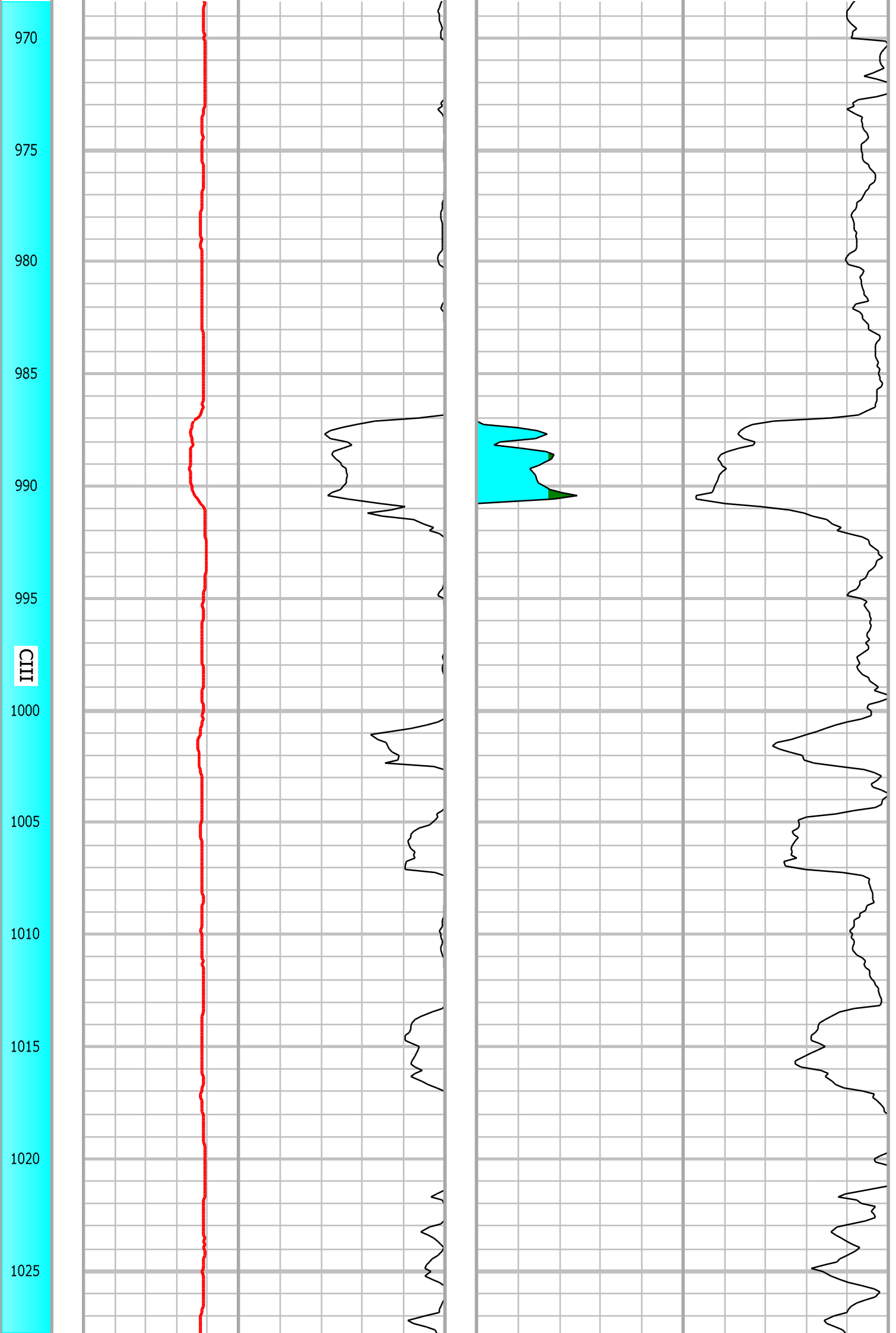


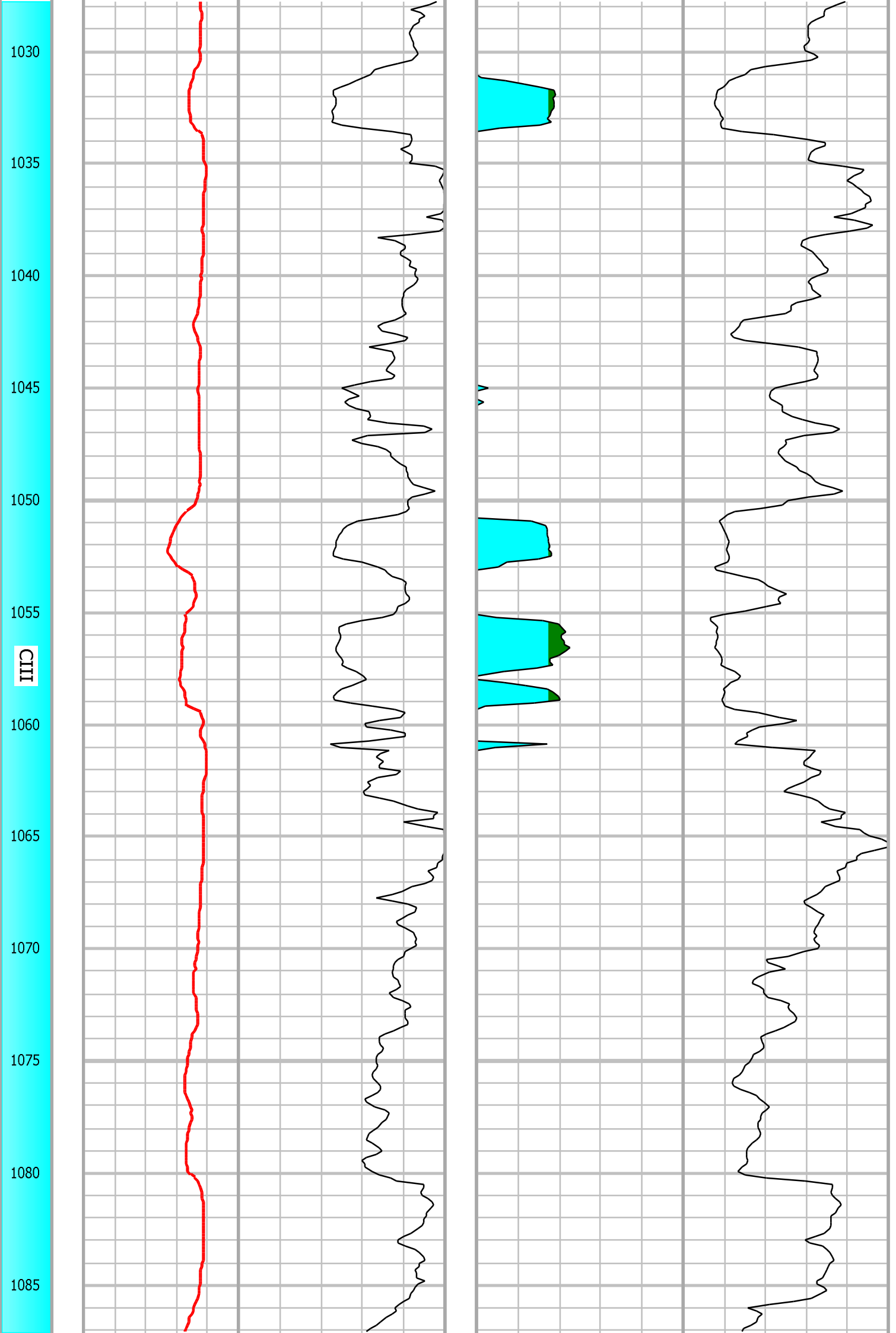
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870
875
880
885
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895
900
905

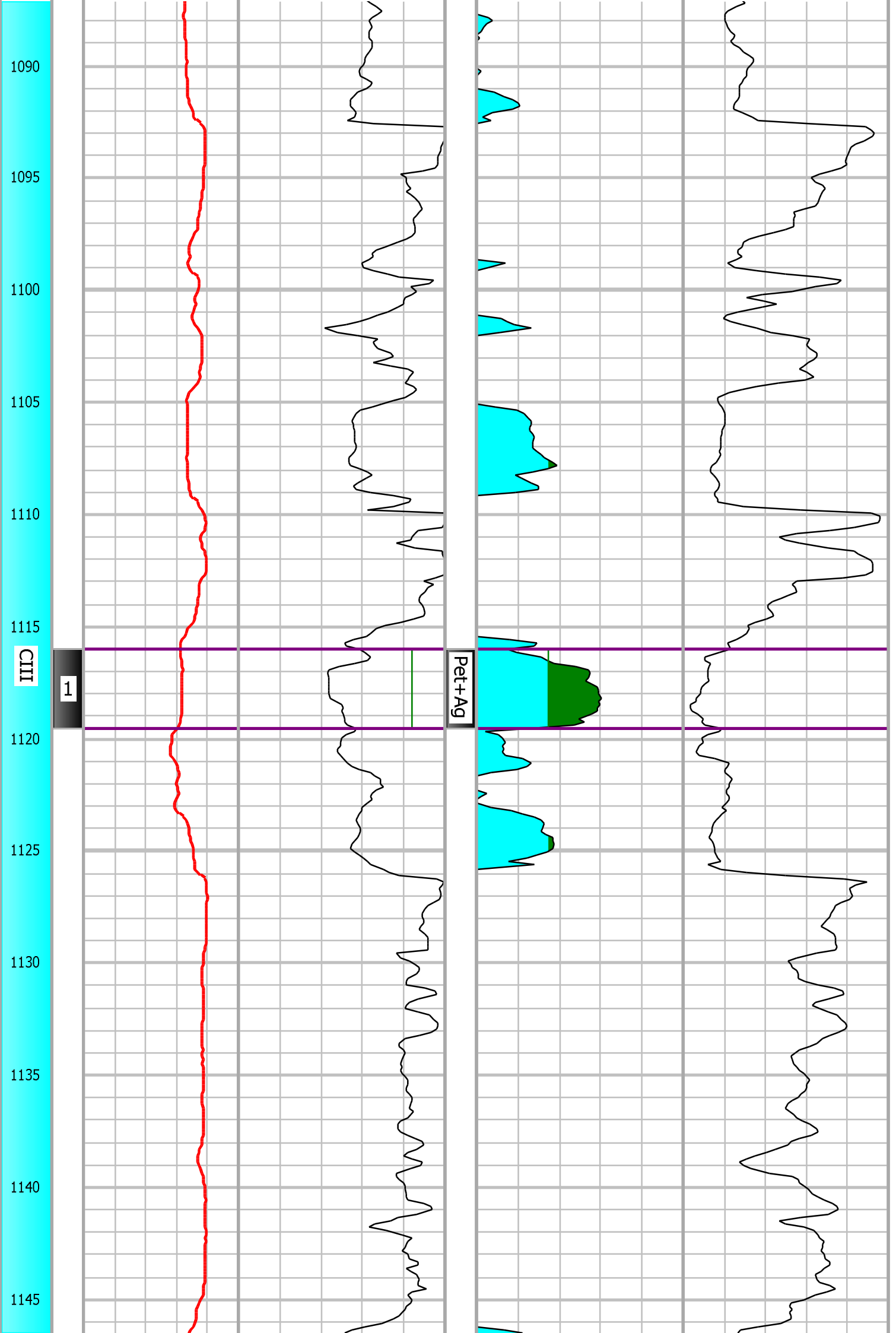
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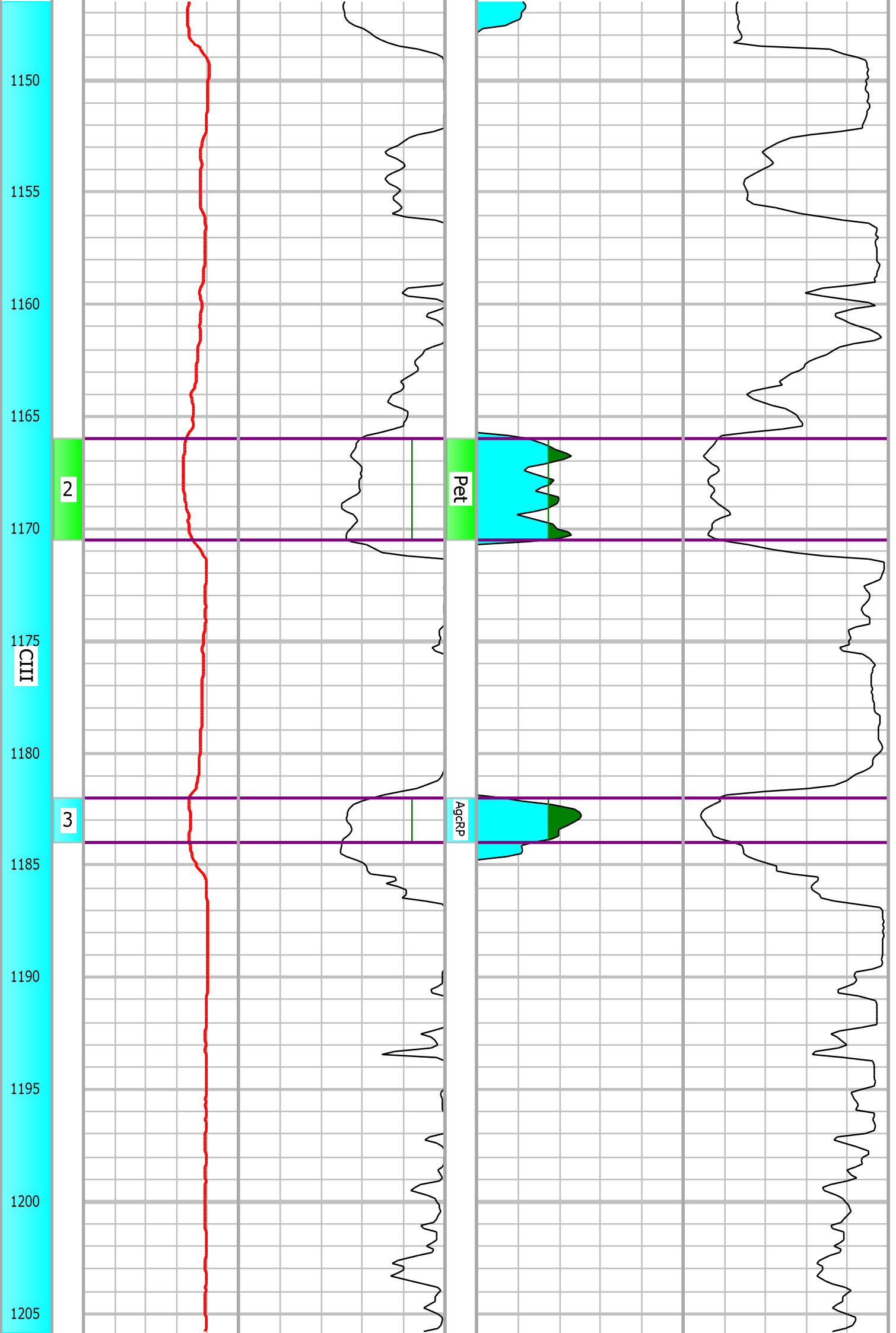


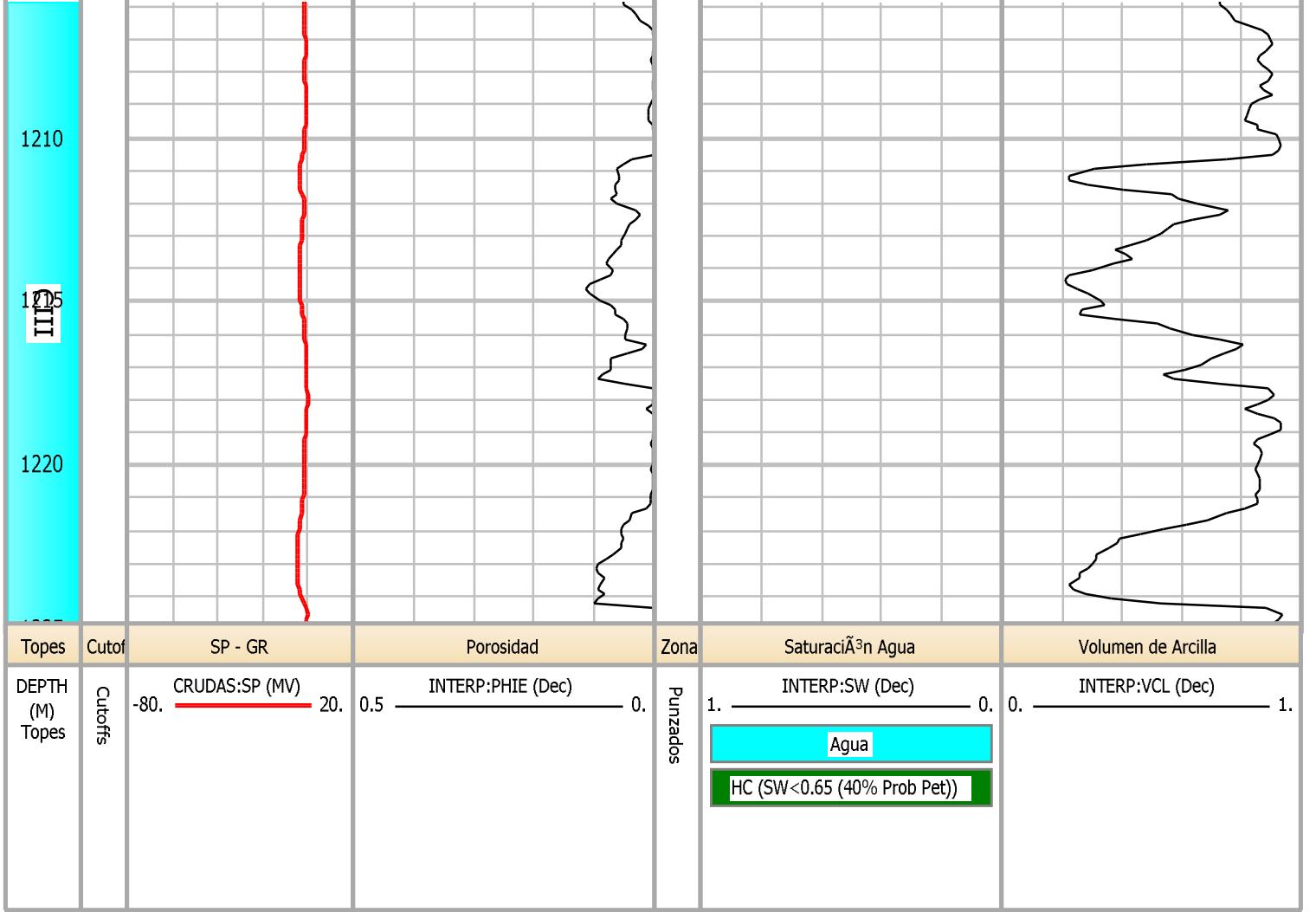












POROSITY WATER SATURATION PARAMETERS

Well : YPF.Ch.LC-668

Date : 09/10/2014 11:07:41

Input Curves

Neutron : CALC:Phi_Neu Density : CRUDAS:RHOD
 PEF : CRUDAS:PEF Clay Volume : INTERP:VCL
 Rt : CRUDAS:R90 Temperature : CALC:Temp
 Bad hole : CALC:Bad Hole

Output Curves

Phi Total : INTERP:PHIT Phi effective : INTERP:PHIE
 Sw : INTERP:SW Sw unlimited : INTERP:SWU
 Sw total : INTERP:SWT Sw total unlim : INTERP:SWTU
 Sxo total : INTERP:SXOT Sxo total unlim : INTERP:SXOTU
 Bulk vol water : INTERP:BVW Wet clay volume : INTERP:VWCL
 Dry Clay volume : INTERP:VDCL Bound water sat : INTERP:SWB
 Volume silt : INTERP:VSILT Logic flag : INTERP:PHIFLAG
 Matrix density : INTERP:RHOMA Coal Volume : INTERP:VCOAL
 Salt volume : INTERP:VSALT Anhydrite volume : INTERP:VANHY
 Hydrocarbon den : INTERP:RHOHY Kill Anal. Flag : INTERP:KillFlag
 Grain Density : INTERP:GrainDen

Zone number 1 CII Top : 771.47 Bottom : 845.00

Rw : 0.345 Rw Temp : CALC:Temp Rmf : 1.22
 Rmf Temp : 4 Rw bound : 0.081 Rwb Temp : CALC:Temp
 Rmf bound : 0.081 Rmfb Temp : CALC:Temp Rho Sxo zone :
 Rho Wet Clay : 2.19 Rho Dry Clay : 2.323 Hc Den : 0.92
 Hc Den Min : 0.1 Den Hc app : GD source : Param
 Rho GD : 2.6 Porosity Method : Density OBM ? : No
 Phi max : 0.3 Delta Phi max : 0.15 m vari wth Vcl : No
 Vcl cutoff : 0.6 Bad Hole Disc ? : No Sat Equation : Dual water
 a factor : 1 m exponent : 1.7 n exponent : 1.91
 Invasion factor : 2 Sxo Method : Inv Fac m source : Param
 n source : Param Coal Logic : No Salt Logic : No
 PhiT Clay : Phie Sw Limit : 0 Phie Limit : 0
 Vcl Limit : 1 Kill Logic : No Swi Limit : 0
 Anhydrite Logic : No Den Hyd model : Modified Clay Shale Rati : 1

Zone number 2 CIIa Top : 845.00 Bottom : 967.00

Rw : 0.336 Rw Temp : CALC:Temp Rmf : 1.22
 Rmf Temp : 4 Rw bound : 0.079 Rwb Temp : CALC:Temp
 Rmf bound : 0.079 Rmfb Temp : CALC:Temp Rho Sxo zone :
 Rho Wet Clay : 2.27 Rho Dry Clay : 2.431 Hc Den : 0.92
 Hc Den Min : 0.1 Den Hc app : GD source : Param
 Rho GD : 2.6 Porosity Method : Density OBM ? : No
 Phi max : 0.3 Delta Phi max : 0.15 m vari wth Vcl : No
 Vcl cutoff : 0.6 Bad Hole Disc ? : No Sat Equation : Dual water
 a factor : 1 m exponent : 1.7 n exponent : 1.91
 Invasion factor : 2 Sxo Method : Inv Fac m source : Param
 n source : Param Coal Logic : No Salt Logic : No
 PhiT Clay : Phie Sw Limit : 0 Phie Limit : 0
 Vcl Limit : 1 Kill Logic : No Swi Limit : 0
 Anhydrite Logic : No Den Hyd model : Modified Clay Shale Rati : 1

Zone number 3 CIII Top : 967.00 Bottom : 1032.73

Rw : 0.354 Rw Temp : CALC:Temp Rmf : 1.22
 Rmf Temp : 4 Rw bound : 0.074 Rwb Temp : CALC:Temp
 Rmf bound : 0.074 Rmfb Temp : CALC:Temp Rho Sxo zone :
 Rho Wet Clay : 2.334 Rho Dry Clay : 2.489 Hc Den : 0.9

Hc Den Min : 0.1 Den Hc app : GD source : Param
Rho GD : 2.61 Porosity Method : Density OBM ? : No
Phi max : 0.3 Delta Phi max : 0.15 m vari wth Vcl : No
Vcl cutoff : 0.6 Bad Hole Disc ? : No Sat Equation : Dual water
a factor : 1 m exponent : 1.95 n exponent : 1.9
Invasion factor : 2 Sxo Method : Inv Fac m source : Param
n source : Param Coal Logic : No Salt Logic : No
PhiT Clay : Phie Sw Limit : 0 Phie Limit : 0
Vcl Limit : 1 Kill Logic : No Swi Limit : 0
Anhydrite Logic : No Den Hyd model : Modified Clay Shale Rati : 1

Zone number 4 CIIa Top : 1032.73 Bottom : 1196.04

Rw : 0.345 Rw Temp : CALC:Temp Rmf : 1.22
Rmf Temp : 4 Rw bound : 0.069 Rwb Temp : CALC:Temp
Rmf bound : 0.069 Rmfb Temp : CALC:Temp Rho Sxo zone :
Rho Wet Clay : 2.383 Rho Dry Clay : 2.515 Hc Den : 0.9
Hc Den Min : 0.1 Den Hc app : GD source : Param
Rho GD : 2.61 Porosity Method : Density OBM ? : No
Phi max : 0.3 Delta Phi max : 0.15 m vari wth Vcl : No
Vcl cutoff : 0.6 Bad Hole Disc ? : No Sat Equation : Dual water
a factor : 1 m exponent : 1.95 n exponent : 1.9
Invasion factor : 2 Sxo Method : Inv Fac m source : Param
n source : Param Coal Logic : No Salt Logic : No
PhiT Clay : Phie Sw Limit : 0 Phie Limit : 0
Vcl Limit : 1 Kill Logic : No Swi Limit : 0
Anhydrite Logic : No Den Hyd model : Modified Clay Shale Rati : 1

Zone number 5 CIIb Top : 1196.04 Bottom : 1254.00

Rw : 0.376 Rw Temp : CALC:Temp Rmf : 1.22
Rmf Temp : 4 Rw bound : 0.066 Rwb Temp : CALC:Temp
Rmf bound : 0.066 Rmfb Temp : CALC:Temp Rho Sxo zone :
Rho Wet Clay : 2.394 Rho Dry Clay : 2.52 Hc Den : 0.9
Hc Den Min : 0.1 Den Hc app : GD source : Param
Rho GD : 2.61 Porosity Method : Density OBM ? : No
Phi max : 0.3 Delta Phi max : 0.15 m vari wth Vcl : No
Vcl cutoff : 0.6 Bad Hole Disc ? : No Sat Equation : Dual water
a factor : 1 m exponent : 1.95 n exponent : 1.9
Invasion factor : 2 Sxo Method : Inv Fac m source : Param
n source : Param Coal Logic : No Salt Logic : No
PhiT Clay : Phie Sw Limit : 0 Phie Limit : 0
Vcl Limit : 1 Kill Logic : No Swi Limit : 0
Anhydrite Logic : No Den Hyd model : Modified Clay Shale Rati : 1

Punz. Repa.
"Punz. Repa." Zones

Well: YPF.Ch.LC-668
Date: 09/10/2014 11:08:53

Zone_Name	Top	Bottom
Punz. Repa.	1055	1059
Punz. Repa.	1087	1092
Punz. Repa.	1115	1120
Punz. Repa.	1122	1126
Punz. Repa.	1166	1170.5

Punzados
"Punzados" Zones

Well: YPF.Ch.LC-668
Date: 09/10/2014 11:09:02

Zone_Name	Top	Bottom
Pet+Ag	1116	1119.5
Pet	1166	1170.5
AgCRP	1182	1184

Wellname : YPF.Ch.LC-668
Date : 09/10/2014 11:08:24

CALC:DEPTH	CALC:Temp				
M	C				
100.1268	21.6099	110.9472	21.9142	122.0724	22.227
100.2792	21.6142	111.0996	21.9184	122.2248	22.2313
100.4316	21.6185	111.252	21.9227	122.3772	22.2355
100.584	21.6228	111.4044	21.927	122.5296	22.2398
100.7364	21.6271	111.5568	21.9313	122.682	22.2441
100.8888	21.6314	111.7092	21.9356	122.8344	22.2484
101.0412	21.6356	111.8616	21.9399	122.9868	22.2527
101.1936	21.6399	112.014	21.9442	123.1392	22.257
101.346	21.6442	112.1664	21.9484	123.2916	22.2613
101.4984	21.6485	112.3188	21.9527	123.444	22.2655
101.6508	21.6528	112.4712	21.957	123.5964	22.2698
101.8032	21.6571	112.6236	21.9613	123.7488	22.2741
101.9556	21.6613	112.776	21.9656	123.9012	22.2784
102.108	21.6656	112.9284	21.9699	124.0536	22.2827
102.2604	21.6699	113.0808	21.9742	124.206	22.287
102.4128	21.6742	113.2332	21.9784	124.3584	22.2912
102.5652	21.6785	113.3856	21.9827	124.5108	22.2955
102.7176	21.6828	113.538	21.987	124.6632	22.2998
102.87	21.6871	113.6904	21.9913	124.8156	22.3041
103.0224	21.6913	113.8428	21.9956	124.968	22.3084
103.1748	21.6956	113.9952	21.9999	125.1204	22.3127
103.3272	21.6999	114.1476	22.0042	125.2728	22.317
103.4796	21.7042	114.3	22.0084	125.4252	22.3212
103.632	21.7085	114.4524	22.0127	125.5776	22.3255
103.7844	21.7128	114.6048	22.017	125.73	22.3298
103.9368	21.7171	114.7572	22.0213	125.8824	22.3341
104.0892	21.7213	114.9096	22.0256	126.0348	22.3384
104.2416	21.7256	115.062	22.0299	126.1872	22.3427
104.394	21.7299	115.2144	22.0341	126.3396	22.347
104.5464	21.7342	115.3668	22.0384	126.492	22.3512
104.6988	21.7385	115.5192	22.0427	126.6444	22.3555
104.8512	21.7428	115.6716	22.047	126.7968	22.3598
105.0036	21.747	115.824	22.0513	126.9492	22.3641
105.156	21.7513	115.9764	22.0556	127.1016	22.3684
105.3084	21.7556	116.1288	22.0599	127.254	22.3727
105.4608	21.7599	116.2812	22.0641	127.4064	22.3769
105.6132	21.7642	116.4336	22.0684	127.5588	22.3812
105.7656	21.7685	116.586	22.0727	127.7112	22.3855
105.918	21.7728	116.7384	22.077	127.8636	22.3898
106.0704	21.777	116.8908	22.0813	128.016	22.3941
106.2228	21.7813	117.0432	22.0856	128.1684	22.3984
106.3752	21.7856	117.1956	22.0899	128.3208	22.4027
106.5276	21.7899	117.348	22.0941	128.4732	22.4069
106.68	21.7942	117.5004	22.0984	128.6256	22.4112
106.8324	21.7985	117.6528	22.1027	128.778	22.4155
106.9848	21.8028	117.8052	22.107	128.9304	22.4198
107.1372	21.807	117.9576	22.1113	129.0828	22.4241
107.2896	21.8113	118.11	22.1156	129.2352	22.4284
107.442	21.8156	118.2624	22.1198	129.3876	22.4327
107.5944	21.8199	118.4148	22.1241	129.54	22.4369
107.7468	21.8242	118.5672	22.1284	129.6924	22.4412
107.8992	21.8285	118.7196	22.1327	129.8448	22.4455
108.0516	21.8327	118.872	22.137	129.9972	22.4498
108.204	21.837	119.0244	22.1413	130.1496	22.4541
108.3564	21.8413	119.1768	22.1456	130.302	22.4584
108.5088	21.8456	119.3292	22.1498	130.4544	22.4626
108.6612	21.8499	119.4816	22.1541	130.6068	22.4669
108.8136	21.8542	119.634	22.1584	130.7592	22.4712
108.966	21.8585	119.7864	22.1627	130.9116	22.4755
109.1184	21.8627	119.9388	22.167	131.064	22.4798
109.2708	21.867	120.0912	22.1713	131.2164	22.4841
109.4232	21.8713	120.2436	22.1756	131.3688	22.4884
109.5756	21.8756	120.396	22.1798	131.5212	22.4926
109.728	21.8799	120.5484	22.1841	131.6736	22.4969
109.8804	21.8842	120.7008	22.1884	131.826	22.5012
110.0328	21.8885	120.8532	22.1927	131.9784	22.5055
110.1852	21.8927	121.0056	22.197	132.1308	22.5098
110.3376	21.897	121.158	22.2013	132.2832	22.5141
110.49	21.9013	121.3104	22.2055	132.4356	22.5184
110.6424	21.9056	121.4628	22.2098	132.588	22.5226
110.7948	21.9099	121.6152	22.2141	132.7404	22.5269
		121.7676	22.2184	132.8928	22.5312
		121.92	22.2227	133.0452	22.5355

133.1976	22.5398	144.9324	22.8697	156.6672	23.1997
133.35	22.5441	145.0848	22.874	156.8196	23.204
133.5024	22.5483	145.2372	22.8783	156.972	23.2082
133.6548	22.5526	145.3896	22.8826	157.1244	23.2125
133.8072	22.5569	145.542	22.8869	157.2768	23.2168
133.9596	22.5612	145.6944	22.8912	157.4292	23.2211
134.112	22.5655	145.8468	22.8954	157.5816	23.2254
134.2644	22.5698	145.9992	22.8997	157.734	23.2297
134.4168	22.5741	146.1516	22.904	157.8864	23.234
134.5692	22.5783	146.304	22.9083	158.0388	23.2382
134.7216	22.5826	146.4564	22.9126	158.1912	23.2425
134.874	22.5869	146.6088	22.9169	158.3436	23.2468
135.0264	22.5912	146.7612	22.9211	158.496	23.2511
135.1788	22.5955	146.9136	22.9254	158.6484	23.2554
135.3312	22.5998	147.066	22.9297	158.8008	23.2597
135.4836	22.6041	147.2184	22.934	158.9532	23.264
135.636	22.6083	147.3708	22.9383	159.1056	23.2682
135.7884	22.6126	147.5232	22.9426	159.258	23.2725
135.9408	22.6169	147.6756	22.9469	159.4104	23.2768
136.0932	22.6212	147.828	22.9511	159.5628	23.2811
136.2456	22.6255	147.9804	22.9554	159.7152	23.2854
136.398	22.6298	148.1328	22.9597	159.8676	23.2897
136.5504	22.6341	148.2852	22.964	160.02	23.2939
136.7028	22.6383	148.4376	22.9683	160.1724	23.2982
136.8552	22.6426	148.59	22.9726	160.3248	23.3025
137.0076	22.6469	148.7424	22.9769	160.4772	23.3068
137.16	22.6512	148.8948	22.9811	160.6296	23.3111
137.3124	22.6555	149.0472	22.9854	160.782	23.3154
137.4648	22.6598	149.1996	22.9897	160.9344	23.3197
137.6172	22.664	149.352	22.994	161.0868	23.3239
137.7696	22.6683	149.5044	22.9983	161.2392	23.3282
137.922	22.6726	149.6568	23.0026	161.3916	23.3325
138.0744	22.6769	149.8092	23.0068	161.544	23.3368
138.2268	22.6812	149.9616	23.0111	161.6964	23.3411
138.3792	22.6855	150.114	23.0154	161.8488	23.3454
138.5316	22.6898	150.2664	23.0197	162.0012	23.3497
138.684	22.694	150.4188	23.024	162.1536	23.3539
138.8364	22.6983	150.5712	23.0283	162.306	23.3582
138.9888	22.7026	150.7236	23.0326	162.4584	23.3625
139.1412	22.7069	150.876	23.0368	162.6108	23.3668
139.2936	22.7112	151.0284	23.0411	162.7632	23.3711
139.446	22.7155	151.1808	23.0454	162.9156	23.3754
139.5984	22.7198	151.3332	23.0497	163.068	23.3796
139.7508	22.724	151.4856	23.054	163.2204	23.3839
139.9032	22.7283	151.638	23.0583	163.3728	23.3882
140.0556	22.7326	151.7904	23.0626	163.5252	23.3925
140.208	22.7369	151.9428	23.0668	163.6776	23.3968
140.3604	22.7412	152.0952	23.0711	163.83	23.4011
140.5128	22.7455	152.2476	23.0754	163.9824	23.4054
140.6652	22.7497	152.4	23.0797	164.1348	23.4096
140.8176	22.754	152.5524	23.084	164.2872	23.4139
140.97	22.7583	152.7048	23.0883	164.4396	23.4182
141.1224	22.7626	152.8572	23.0925	164.592	23.4225
141.2748	22.7669	153.0096	23.0968	164.7444	23.4268
141.4272	22.7712	153.162	23.1011	164.8968	23.4311
141.5796	22.7755	153.3144	23.1054	165.0492	23.4354
141.732	22.7797	153.4668	23.1097	165.2016	23.4396
141.8844	22.784	153.6192	23.114	165.354	23.4439
142.0368	22.7883	153.7716	23.1183	165.5064	23.4482
142.1892	22.7926	153.924	23.1225	165.6588	23.4525
142.3416	22.7969	154.0764	23.1268	165.8112	23.4568
142.494	22.8012	154.2288	23.1311	165.9636	23.4611
142.6464	22.8055	154.3812	23.1354	166.116	23.4653
142.7988	22.8097	154.5336	23.1397	166.2684	23.4696
142.9512	22.814	154.686	23.144	166.4208	23.4739
143.1036	22.8183	154.8384	23.1483	166.5732	23.4782
143.256	22.8226	154.9908	23.1525	166.7256	23.4825
143.4084	22.8269	155.1432	23.1568	166.878	23.4868
143.5608	22.8312	155.2956	23.1611	167.0304	23.4911
143.7132	22.8354	155.448	23.1654	167.1828	23.4953
143.8656	22.8397	155.6004	23.1697	167.3352	23.4996
144.018	22.844	155.7528	23.174	167.4876	23.5039
144.1704	22.8483	155.9052	23.1782	167.64	23.5082
144.3228	22.8526	156.0576	23.1825	167.7924	23.5125
144.4752	22.8569	156.21	23.1868	167.9448	23.5168
144.6276	22.8612	156.3624	23.1911	168.0972	23.5211
144.78	22.8654	156.5148	23.1954	168.2496	23.5253

168.402	23.5296	180.1368	23.8596	191.8716	24.1895
168.5544	23.5339	180.2892	23.8639	192.024	24.1938
168.7068	23.5382	180.4416	23.8681	192.1764	24.1981
168.8592	23.5425	180.594	23.8724	192.3288	24.2024
169.0116	23.5468	180.7464	23.8767	192.4812	24.2067
169.164	23.551	180.8988	23.881	192.6336	24.2109
169.3164	23.5553	181.0512	23.8853	192.786	24.2152
169.4688	23.5596	181.2036	23.8896	192.9384	24.2195
169.6212	23.5639	181.356	23.8939	193.0908	24.2238
169.7736	23.5682	181.5084	23.8981	193.2432	24.2281
169.926	23.5725	181.6608	23.9024	193.3956	24.2324
170.0784	23.5768	181.8132	23.9067	193.548	24.2367
170.2308	23.581	181.9656	23.911	193.7004	24.2409
170.3832	23.5853	182.118	23.9153	193.8528	24.2452
170.5356	23.5896	182.2704	23.9196	194.0052	24.2495
170.688	23.5939	182.4228	23.9238	194.1576	24.2538
170.8404	23.5982	182.5752	23.9281	194.31	24.2581
170.9928	23.6025	182.7276	23.9324	194.4624	24.2624
171.1452	23.6068	182.88	23.9367	194.6148	24.2666
171.2976	23.611	183.0324	23.941	194.7672	24.2709
171.45	23.6153	183.1848	23.9453	194.9196	24.2752
171.6024	23.6196	183.3372	23.9496	195.072	24.2795
171.7548	23.6239	183.4896	23.9538	195.2244	24.2838
171.9072	23.6282	183.642	23.9581	195.3768	24.2881
172.0596	23.6325	183.7944	23.9624	195.5292	24.2924
172.212	23.6367	183.9468	23.9667	195.6816	24.2966
172.3644	23.641	184.0992	23.971	195.834	24.3009
172.5168	23.6453	184.2516	23.9753	195.9864	24.3052
172.6692	23.6496	184.404	23.9796	196.1388	24.3095
172.8216	23.6539	184.5564	23.9838	196.2912	24.3138
172.974	23.6582	184.7088	23.9881	196.4436	24.3181
173.1264	23.6625	184.8612	23.9924	196.596	24.3224
173.2788	23.6667	185.0136	23.9967	196.7484	24.3266
173.4312	23.671	185.166	24.001	196.9008	24.3309
173.5836	23.6753	185.3184	24.0053	197.0532	24.3352
173.736	23.6796	185.4708	24.0095	197.2056	24.3395
173.8884	23.6839	185.6232	24.0138	197.358	24.3438
174.0408	23.6882	185.7756	24.0181	197.5104	24.3481
174.1932	23.6925	185.928	24.0224	197.6628	24.3524
174.3456	23.6967	186.0804	24.0267	197.8152	24.3566
174.498	23.701	186.2328	24.031	197.9676	24.3609
174.6504	23.7053	186.3852	24.0353	198.12	24.3652
174.8028	23.7096	186.5376	24.0395	198.2724	24.3695
174.9552	23.7139	186.69	24.0438	198.4248	24.3738
175.1076	23.7182	186.8424	24.0481	198.5772	24.3781
175.26	23.7225	186.9948	24.0524	198.7296	24.3823
175.4124	23.7267	187.1472	24.0567	198.882	24.3866
175.5648	23.731	187.2996	24.061	199.0344	24.3909
175.7172	23.7353	187.452	24.0653	199.1868	24.3952
175.8696	23.7396	187.6044	24.0695	199.3392	24.3995
176.022	23.7439	187.7568	24.0738	199.4916	24.4038
176.1744	23.7482	187.9092	24.0781	199.644	24.4081
176.3268	23.7524	188.0616	24.0824	199.7964	24.4123
176.4792	23.7567	188.214	24.0867	199.9488	24.4166
176.6316	23.761	188.3664	24.091	200.1012	24.4209
176.784	23.7653	188.5188	24.0952	200.2536	24.4252
176.9364	23.7696	188.6712	24.0995	200.406	24.4295
177.0888	23.7739	188.8236	24.1038	200.5584	24.4338
177.2412	23.7782	188.976	24.1081	200.7108	24.4381
177.3936	23.7824	189.1284	24.1124	200.8632	24.4423
177.546	23.7867	189.2808	24.1167	201.0156	24.4466
177.6984	23.791	189.4332	24.121	201.168	24.4509
177.8508	23.7953	189.5856	24.1252	201.3204	24.4552
178.0032	23.7996	189.738	24.1295	201.4728	24.4595
178.1556	23.8039	189.8904	24.1338	201.6252	24.4638
178.308	23.8082	190.0428	24.1381	201.7776	24.468
178.4604	23.8124	190.1952	24.1424	201.93	24.4723
178.6128	23.8167	190.3476	24.1467	202.0824	24.4766
178.7652	23.821	190.5	24.151	202.2348	24.4809
178.9176	23.8253	190.6524	24.1552	202.3872	24.4852
179.07	23.8296	190.8048	24.1595	202.5396	24.4895
179.2224	23.8339	190.9572	24.1638	202.692	24.4938
179.3748	23.8381	191.1096	24.1681	202.8444	24.498
179.5272	23.8424	191.262	24.1724	202.9968	24.5023
179.6796	23.8467	191.4144	24.1767	203.1492	24.5066
179.832	23.851	191.5668	24.1809	203.3016	24.5109
179.9844	23.8553	191.7192	24.1852	203.454	24.5152

203.6064	24.5195	215.3412	24.8494	227.076	25.1794
203.7588	24.5238	215.4936	24.8537	227.2284	25.1836
203.9112	24.528	215.646	24.858	227.3808	25.1879
204.0636	24.5323	215.7984	24.8623	227.5332	25.1922
204.216	24.5366	215.9508	24.8666	227.6856	25.1965
204.3684	24.5409	216.1032	24.8708	227.838	25.2008
204.5208	24.5452	216.2556	24.8751	227.9904	25.2051
204.6732	24.5495	216.408	24.8794	228.1428	25.2094
204.8256	24.5537	216.5604	24.8837	228.2952	25.2136
204.978	24.558	216.7128	24.888	228.4476	25.2179
205.1304	24.5623	216.8652	24.8923	228.6	25.2222
205.2828	24.5666	217.0176	24.8965	228.7524	25.2265
205.4352	24.5709	217.17	24.9008	228.9048	25.2308
205.5876	24.5752	217.3224	24.9051	229.0572	25.2351
205.74	24.5795	217.4748	24.9094	229.2096	25.2394
205.8924	24.5837	217.6272	24.9137	229.362	25.2436
206.0448	24.588	217.7796	24.918	229.5144	25.2479
206.1972	24.5923	217.932	24.9223	229.6668	25.2522
206.3496	24.5966	218.0844	24.9265	229.8192	25.2565
206.502	24.6009	218.2368	24.9308	229.9716	25.2608
206.6544	24.6052	218.3892	24.9351	230.124	25.2651
206.8068	24.6095	218.5416	24.9394	230.2764	25.2693
206.9592	24.6137	218.694	24.9437	230.4288	25.2736
207.1116	24.618	218.8464	24.948	230.5812	25.2779
207.264	24.6223	218.9988	24.9523	230.7336	25.2822
207.4164	24.6266	219.1512	24.9565	230.886	25.2865
207.5688	24.6309	219.3036	24.9608	231.0384	25.2908
207.7212	24.6352	219.456	24.9651	231.1908	25.2951
207.8736	24.6394	219.6084	24.9694	231.3432	25.2993
208.026	24.6437	219.7608	24.9737	231.4956	25.3036
208.1784	24.648	219.9132	24.978	231.648	25.3079
208.3308	24.6523	220.0656	24.9823	231.8004	25.3122
208.4832	24.6566	220.218	24.9865	231.9528	25.3165
208.6356	24.6609	220.3704	24.9908	232.1052	25.3208
208.788	24.6652	220.5228	24.9951	232.2576	25.3251
208.9404	24.6694	220.6752	24.9994	232.41	25.3293
209.0928	24.6737	220.8276	25.0037	232.5624	25.3336
209.2452	24.678	220.98	25.008	232.7148	25.3379
209.3976	24.6823	221.1324	25.0122	232.8672	25.3422
209.55	24.6866	221.2848	25.0165	233.0196	25.3465
209.7024	24.6909	221.4372	25.0208	233.172	25.3508
209.8548	24.6952	221.5896	25.0251	233.3244	25.355
210.0072	24.6994	221.742	25.0294	233.4768	25.3593
210.1596	24.7037	221.8944	25.0337	233.6292	25.3636
210.312	24.708	222.0468	25.038	233.7816	25.3679
210.4644	24.7123	222.1992	25.0422	233.934	25.3722
210.6168	24.7166	222.3516	25.0465	234.0864	25.3765
210.7692	24.7209	222.504	25.0508	234.2388	25.3808
210.9216	24.7251	222.6564	25.0551	234.3912	25.385
211.074	24.7294	222.8088	25.0594	234.5436	25.3893
211.2264	24.7337	222.9612	25.0637	234.696	25.3936
211.3788	24.738	223.1136	25.068	234.8484	25.3979
211.5312	24.7423	223.266	25.0722	235.0008	25.4022
211.6836	24.7466	223.4184	25.0765	235.1532	25.4065
211.836	24.7509	223.5708	25.0808	235.3056	25.4108
211.9884	24.7551	223.7232	25.0851	235.458	25.415
212.1408	24.7594	223.8756	25.0894	235.6104	25.4193
212.2932	24.7637	224.028	25.0937	235.7628	25.4236
212.4456	24.768	224.1804	25.0979	235.9152	25.4279
212.598	24.7723	224.3328	25.1022	236.0676	25.4322
212.7504	24.7766	224.4852	25.1065	236.22	25.4365
212.9028	24.7809	224.6376	25.1108	236.3724	25.4408
213.0552	24.7851	224.79	25.1151	236.5248	25.445
213.2076	24.7894	224.9424	25.1194	236.6772	25.4493
213.36	24.7937	225.0948	25.1237	236.8296	25.4536
213.5124	24.798	225.2472	25.1279	236.982	25.4579
213.6648	24.8023	225.3996	25.1322	237.1344	25.4622
213.8172	24.8066	225.552	25.1365	237.2868	25.4665
213.9696	24.8108	225.7044	25.1408	237.4392	25.4707
214.122	24.8151	225.8568	25.1451	237.5916	25.475
214.2744	24.8194	226.0092	25.1494	237.744	25.4793
214.4268	24.8237	226.1616	25.1537	237.8964	25.4836
214.5792	24.828	226.314	25.1579	238.0488	25.4879
214.7316	24.8323	226.4664	25.1622	238.2012	25.4922
214.884	24.8366	226.6188	25.1665	238.3536	25.4965
215.0364	24.8408	226.7712	25.1708	238.506	25.5007
215.1888	24.8451	226.9236	25.1751	238.6584	25.505

238.8108	25.5093	250.5456	25.8393	262.2804	26.1692
238.9632	25.5136	250.698	25.8435	262.4328	26.1735
239.1156	25.5179	250.8504	25.8478	262.5852	26.1778
239.268	25.5222	251.0028	25.8521	262.7376	26.1821
239.4204	25.5264	251.1552	25.8564	262.89	26.1863
239.5728	25.5307	251.3076	25.8607	263.0424	26.1906
239.7252	25.535	251.46	25.865	263.1948	26.1949
239.8776	25.5393	251.6124	25.8693	263.3472	26.1992
240.03	25.5436	251.7648	25.8735	263.4996	26.2035
240.1824	25.5479	251.9172	25.8778	263.652	26.2078
240.3348	25.5522	252.0696	25.8821	263.8044	26.2121
240.4872	25.5564	252.222	25.8864	263.9568	26.2163
240.6396	25.5607	252.3744	25.8907	264.1092	26.2206
240.792	25.565	252.5268	25.895	264.2616	26.2249
240.9444	25.5693	252.6792	25.8992	264.414	26.2292
241.0968	25.5736	252.8316	25.9035	264.5664	26.2335
241.2492	25.5779	252.984	25.9078	264.7188	26.2378
241.4016	25.5822	253.1364	25.9121	264.8712	26.2421
241.554	25.5864	253.2888	25.9164	265.0236	26.2463
241.7064	25.5907	253.4412	25.9207	265.176	26.2506
241.8588	25.595	253.5936	25.925	265.3284	26.2549
242.0112	25.5993	253.746	25.9292	265.4808	26.2592
242.1636	25.6036	253.8984	25.9335	265.6332	26.2635
242.316	25.6079	254.0508	25.9378	265.7856	26.2678
242.4684	25.6122	254.2032	25.9421	265.938	26.2721
242.6208	25.6164	254.3556	25.9464	266.0904	26.2763
242.7732	25.6207	254.508	25.9507	266.2428	26.2806
242.9256	25.625	254.6604	25.955	266.3952	26.2849
243.078	25.6293	254.8128	25.9592	266.5476	26.2892
243.2304	25.6336	254.9652	25.9635	266.7	26.2935
243.3828	25.6379	255.1176	25.9678	266.8524	26.2978
243.5352	25.6421	255.27	25.9721	267.0048	26.3021
243.6876	25.6464	255.4224	25.9764	267.1572	26.3063
243.84	25.6507	255.5748	25.9807	267.3096	26.3106
243.9924	25.655	255.7272	25.9849	267.462	26.3149
244.1448	25.6593	255.8796	25.9892	267.6144	26.3192
244.2972	25.6636	256.032	25.9935	267.7668	26.3235
244.4496	25.6679	256.1844	25.9978	267.9192	26.3278
244.602	25.6721	256.3368	26.0021	268.0716	26.3321
244.7544	25.6764	256.4892	26.0064	268.224	26.3363
244.9068	25.6807	256.6416	26.0107	268.3764	26.3406
245.0592	25.685	256.794	26.0149	268.5288	26.3449
245.2116	25.6893	256.9464	26.0192	268.6812	26.3492
245.364	25.6936	257.0988	26.0235	268.8336	26.3535
245.5164	25.6979	257.2512	26.0278	268.986	26.3577
245.6688	25.7021	257.4036	26.0321	269.1384	26.362
245.8212	25.7064	257.556	26.0364	269.2908	26.3663
245.9736	25.7107	257.7084	26.0407	269.4432	26.3706
246.126	25.715	257.8608	26.0449	269.5956	26.3749
246.2784	25.7193	258.0132	26.0492	269.748	26.3792
246.4308	25.7236	258.1656	26.0535	269.9004	26.3835
246.5832	25.7278	258.318	26.0578	270.0528	26.3877
246.7356	25.7321	258.4704	26.0621	270.2052	26.392
246.888	25.7364	258.6228	26.0664	270.3576	26.3963
247.0404	25.7407	258.7752	26.0707	270.51	26.4006
247.1928	25.745	258.9276	26.0749	270.6624	26.4049
247.3452	25.7493	259.08	26.0792	270.8148	26.4092
247.4976	25.7536	259.2324	26.0835	270.9672	26.4135
247.65	25.7578	259.3848	26.0878	271.1196	26.4177
247.8024	25.7621	259.5372	26.0921	271.272	26.422
247.9548	25.7664	259.6896	26.0964	271.4244	26.4263
248.1072	25.7707	259.842	26.1006	271.5768	26.4306
248.2596	25.775	259.9944	26.1049	271.7292	26.4349
248.412	25.7793	260.1468	26.1092	271.8816	26.4392
248.5644	25.7836	260.2992	26.1135	272.034	26.4434
248.7168	25.7878	260.4516	26.1178	272.1864	26.4477
248.8692	25.7921	260.604	26.1221	272.3388	26.452
249.0216	25.7964	260.7564	26.1264	272.4912	26.4563
249.174	25.8007	260.9088	26.1306	272.6436	26.4606
249.3264	25.805	261.0612	26.1349	272.796	26.4649
249.4788	25.8093	261.2136	26.1392	272.9484	26.4692
249.6312	25.8135	261.366	26.1435	273.1008	26.4734
249.7836	25.8178	261.5184	26.1478	273.2532	26.4777
249.936	25.8221	261.6708	26.1521	273.4056	26.482
250.0884	25.8264	261.8232	26.1564	273.558	26.4863
250.2408	25.8307	261.9756	26.1606	273.7104	26.4906
250.3932	25.835	262.128	26.1649	273.8628	26.4949

274.0152	26.4992	285.75	26.8291	297.4848	27.159
274.1676	26.5034	285.9024	26.8334	297.6372	27.1633
274.32	26.5077	286.0548	26.8377	297.7896	27.1676
274.4724	26.512	286.2072	26.842	297.942	27.1719
274.6248	26.5163	286.3596	26.8462	298.0944	27.1762
274.7772	26.5206	286.512	26.8505	298.2468	27.1805
274.9296	26.5249	286.6644	26.8548	298.3992	27.1848
275.082	26.5291	286.8168	26.8591	298.5516	27.189
275.2344	26.5334	286.9692	26.8634	298.704	27.1933
275.3868	26.5377	287.1216	26.8677	298.8564	27.1976
275.5392	26.542	287.274	26.872	299.0088	27.2019
275.6916	26.5463	287.4264	26.8762	299.1612	27.2062
275.844	26.5506	287.5788	26.8805	299.3136	27.2105
275.9964	26.5549	287.7312	26.8848	299.466	27.2148
276.1488	26.5591	287.8836	26.8891	299.6184	27.219
276.3012	26.5634	288.036	26.8934	299.7708	27.2233
276.4536	26.5677	288.1884	26.8977	299.9232	27.2276
276.606	26.572	288.3408	26.9019	300.0756	27.2319
276.7584	26.5763	288.4932	26.9062	300.228	27.2362
276.9108	26.5806	288.6456	26.9105	300.3804	27.2405
277.0632	26.5849	288.798	26.9148	300.5328	27.2448
277.2156	26.5891	288.9504	26.9191	300.6852	27.249
277.368	26.5934	289.1028	26.9234	300.8376	27.2533
277.5204	26.5977	289.2552	26.9277	300.99	27.2576
277.6728	26.602	289.4076	26.9319	301.1424	27.2619
277.8252	26.6063	289.56	26.9362	301.2948	27.2662
277.9776	26.6106	289.7124	26.9405	301.4472	27.2705
278.13	26.6148	289.8648	26.9448	301.5996	27.2747
278.2824	26.6191	290.0172	26.9491	301.752	27.279
278.4348	26.6234	290.1696	26.9534	301.9044	27.2833
278.5872	26.6277	290.322	26.9577	302.0568	27.2876
278.7396	26.632	290.4744	26.9619	302.2092	27.2919
278.892	26.6363	290.6268	26.9662	302.3616	27.2962
279.0444	26.6406	290.7792	26.9705	302.514	27.3005
279.1968	26.6448	290.9316	26.9748	302.6664	27.3047
279.3492	26.6491	291.084	26.9791	302.8188	27.309
279.5016	26.6534	291.2364	26.9834	302.9712	27.3133
279.654	26.6577	291.3888	26.9876	303.1236	27.3176
279.8064	26.662	291.5412	26.9919	303.276	27.3219
279.9588	26.6663	291.6936	26.9962	303.4284	27.3262
280.1112	26.6706	291.846	27.0005	303.5808	27.3305
280.2636	26.6748	291.9984	27.0048	303.7332	27.3347
280.416	26.6791	292.1508	27.0091	303.8856	27.339
280.5684	26.6834	292.3032	27.0134	304.038	27.3433
280.7208	26.6877	292.4556	27.0176	304.1904	27.3476
280.8732	26.692	292.608	27.0219	304.3428	27.3519
281.0256	26.6963	292.7604	27.0262	304.4952	27.3562
281.178	26.7006	292.9128	27.0305	304.6476	27.3604
281.3304	26.7048	293.0652	27.0348	304.8	27.3647
281.4828	26.7091	293.2176	27.0391	304.9524	27.369
281.6352	26.7134	293.37	27.0434	305.1048	27.3733
281.7876	26.7177	293.5224	27.0476	305.2572	27.3776
281.94	26.722	293.6748	27.0519	305.4096	27.3819
282.0924	26.7263	293.8272	27.0562	305.562	27.3862
282.2448	26.7305	293.9796	27.0605	305.7144	27.3904
282.3972	26.7348	294.132	27.0648	305.8668	27.3947
282.5496	26.7391	294.2844	27.0691	306.0192	27.399
282.702	26.7434	294.4368	27.0733	306.1716	27.4033
282.8544	26.7477	294.5892	27.0776	306.324	27.4076
283.0068	26.752	294.7416	27.0819	306.4764	27.4119
283.1592	26.7563	294.894	27.0862	306.6288	27.4162
283.3116	26.7605	295.0464	27.0905	306.7812	27.4204
283.464	26.7648	295.1988	27.0948	306.9336	27.4247
283.6164	26.7691	295.3512	27.0991	307.086	27.429
283.7688	26.7734	295.5036	27.1033	307.2384	27.4333
283.9212	26.7777	295.656	27.1076	307.3908	27.4376
284.0736	26.782	295.8084	27.1119	307.5432	27.4419
284.226	26.7863	295.9608	27.1162	307.6956	27.4461
284.3784	26.7905	296.1132	27.1205	307.848	27.4504
284.5308	26.7948	296.2656	27.1248	308.0004	27.4547
284.6832	26.7991	296.418	27.1291	308.1528	27.459
284.8356	26.8034	296.5704	27.1333	308.3052	27.4633
284.988	26.8077	296.7228	27.1376	308.4576	27.4676
285.1404	26.812	296.8752	27.1419	308.61	27.4719
285.2928	26.8162	297.0276	27.1462	308.7624	27.4761
285.4452	26.8205	297.18	27.1505	308.9148	27.4804
285.5976	26.8248	297.3324	27.1548	309.0672	27.4847

309.2196	27.489	320.9544	27.8189	332.6892	28.1489
309.372	27.4933	321.1068	27.8232	332.8416	28.1532
309.5244	27.4976	321.2592	27.8275	332.994	28.1575
309.6768	27.5019	321.4116	27.8318	333.1464	28.1617
309.8292	27.5061	321.564	27.8361	333.2988	28.166
309.9816	27.5104	321.7164	27.8404	333.4512	28.1703
310.134	27.5147	321.8688	27.8447	333.6036	28.1746
310.2864	27.519	322.0212	27.8489	333.756	28.1789
310.4388	27.5233	322.1736	27.8532	333.9084	28.1832
310.5912	27.5276	322.326	27.8575	334.0608	28.1875
310.7436	27.5318	322.4784	27.8618	334.2132	28.1917
310.896	27.5361	322.6308	27.8661	334.3656	28.196
311.0484	27.5404	322.7832	27.8704	334.518	28.2003
311.2008	27.5447	322.9356	27.8747	334.6704	28.2046
311.3532	27.549	323.088	27.8789	334.8228	28.2089
311.5056	27.5533	323.2404	27.8832	334.9752	28.2132
311.658	27.5576	323.3928	27.8875	335.1276	28.2175
311.8104	27.5618	323.5452	27.8918	335.28	28.2217
311.9628	27.5661	323.6976	27.8961	335.4324	28.226
312.1152	27.5704	323.85	27.9004	335.5848	28.2303
312.2676	27.5747	324.0024	27.9046	335.7372	28.2346
312.42	27.579	324.1548	27.9089	335.8896	28.2389
312.5724	27.5833	324.3072	27.9132	336.042	28.2432
312.7248	27.5876	324.4596	27.9175	336.1944	28.2474
312.8772	27.5918	324.612	27.9218	336.3468	28.2517
313.0296	27.5961	324.7644	27.9261	336.4992	28.256
313.182	27.6004	324.9168	27.9304	336.6516	28.2603
313.3344	27.6047	325.0692	27.9346	336.804	28.2646
313.4868	27.609	325.2216	27.9389	336.9564	28.2689
313.6392	27.6133	325.374	27.9432	337.1088	28.2732
313.7916	27.6175	325.5264	27.9475	337.2612	28.2774
313.944	27.6218	325.6788	27.9518	337.4136	28.2817
314.0964	27.6261	325.8312	27.9561	337.566	28.286
314.2488	27.6304	325.9836	27.9604	337.7184	28.2903
314.4012	27.6347	326.136	27.9646	337.8708	28.2946
314.5536	27.639	326.2884	27.9689	338.0232	28.2989
314.706	27.6433	326.4408	27.9732	338.1756	28.3032
314.8584	27.6475	326.5932	27.9775	338.328	28.3074
315.0108	27.6518	326.7456	27.9818	338.4804	28.3117
315.1632	27.6561	326.898	27.9861	338.6328	28.316
315.3156	27.6604	327.0504	27.9903	338.7852	28.3203
315.468	27.6647	327.2028	27.9946	338.9376	28.3246
315.6204	27.669	327.3552	27.9989	339.09	28.3289
315.7728	27.6733	327.5076	28.0032	339.2424	28.3331
315.9252	27.6775	327.66	28.0075	339.3948	28.3374
316.0776	27.6818	327.8124	28.0118	339.5472	28.3417
316.23	27.6861	327.9648	28.0161	339.6996	28.346
316.3824	27.6904	328.1172	28.0203	339.852	28.3503
316.5348	27.6947	328.2696	28.0246	340.0044	28.3546
316.6872	27.699	328.422	28.0289	340.1568	28.3589
316.8396	27.7032	328.5744	28.0332	340.3092	28.3631
316.992	27.7075	328.7268	28.0375	340.4616	28.3674
317.1444	27.7118	328.8792	28.0418	340.614	28.3717
317.2968	27.7161	329.0316	28.0461	340.7664	28.376
317.4492	27.7204	329.184	28.0503	340.9188	28.3803
317.6016	27.7247	329.3364	28.0546	341.0712	28.3846
317.754	27.729	329.4888	28.0589	341.2236	28.3889
317.9064	27.7332	329.6412	28.0632	341.376	28.3931
318.0588	27.7375	329.7936	28.0675	341.5284	28.3974
318.2112	27.7418	329.946	28.0718	341.6808	28.4017
318.3636	27.7461	330.0984	28.076	341.8332	28.406
318.516	27.7504	330.2508	28.0803	341.9856	28.4103
318.6684	27.7547	330.4032	28.0846	342.138	28.4146
318.8208	27.759	330.5556	28.0889	342.2904	28.4188
318.9732	27.7632	330.708	28.0932	342.4428	28.4231
319.1256	27.7675	330.8604	28.0975	342.5952	28.4274
319.278	27.7718	331.0128	28.1018	342.7476	28.4317
319.4304	27.7761	331.1652	28.106	342.9	28.436
319.5828	27.7804	331.3176	28.1103	343.0524	28.4403
319.7352	27.7847	331.47	28.1146	343.2048	28.4446
319.8876	27.7889	331.6224	28.1189	343.3572	28.4488
320.04	27.7932	331.7748	28.1232	343.5096	28.4531
320.1924	27.7975	331.9272	28.1275	343.662	28.4574
320.3448	27.8018	332.0796	28.1318	343.8144	28.4617
320.4972	27.8061	332.232	28.136	343.9668	28.466
320.6496	27.8104	332.3844	28.1403	344.1192	28.4703
320.802	27.8147	332.5368	28.1446	344.2716	28.4746

344.424	28.4788	356.1588	28.8088	367.8936	29.1387
344.5764	28.4831	356.3112	28.8131	368.046	29.143
344.7288	28.4874	356.4636	28.8174	368.1984	29.1473
344.8812	28.4917	356.616	28.8216	368.3508	29.1516
345.0336	28.496	356.7684	28.8259	368.5032	29.1559
345.186	28.5003	356.9208	28.8302	368.6556	29.1602
345.3384	28.5046	357.0732	28.8345	368.808	29.1644
345.4908	28.5088	357.2256	28.8388	368.9604	29.1687
345.6432	28.5131	357.378	28.8431	369.1128	29.173
345.7956	28.5174	357.5304	28.8474	369.2652	29.1773
345.948	28.5217	357.6828	28.8516	369.4176	29.1816
346.1004	28.526	357.8352	28.8559	369.57	29.1859
346.2528	28.5303	357.9876	28.8602	369.7224	29.1902
346.4052	28.5345	358.14	28.8645	369.8748	29.1944
346.5576	28.5388	358.2924	28.8688	370.0272	29.1987
346.71	28.5431	358.4448	28.8731	370.1796	29.203
346.8624	28.5474	358.5972	28.8773	370.332	29.2073
347.0148	28.5517	358.7496	28.8816	370.4844	29.2116
347.1672	28.556	358.902	28.8859	370.6368	29.2159
347.3196	28.5603	359.0544	28.8902	370.7892	29.2202
347.472	28.5645	359.2068	28.8945	370.9416	29.2244
347.6244	28.5688	359.3592	28.8988	371.094	29.2287
347.7768	28.5731	359.5116	28.9031	371.2464	29.233
347.9292	28.5774	359.664	28.9073	371.3988	29.2373
348.0816	28.5817	359.8164	28.9116	371.5512	29.2416
348.234	28.586	359.9688	28.9159	371.7036	29.2459
348.3864	28.5903	360.1212	28.9202	371.856	29.2501
348.5388	28.5945	360.2736	28.9245	372.0084	29.2544
348.6912	28.5988	360.426	28.9288	372.1608	29.2587
348.8436	28.6031	360.5784	28.9331	372.3132	29.263
348.996	28.6074	360.7308	28.9373	372.4656	29.2673
349.1484	28.6117	360.8832	28.9416	372.618	29.2716
349.3008	28.616	361.0356	28.9459	372.7704	29.2759
349.4532	28.6202	361.188	28.9502	372.9228	29.2801
349.6056	28.6245	361.3404	28.9545	373.0752	29.2844
349.758	28.6288	361.4928	28.9588	373.2276	29.2887
349.9104	28.6331	361.6452	28.963	373.38	29.293
350.0628	28.6374	361.7976	28.9673	373.5324	29.2973
350.2152	28.6417	361.95	28.9716	373.6848	29.3016
350.3676	28.646	362.1024	28.9759	373.8372	29.3059
350.52	28.6502	362.2548	28.9802	373.9896	29.3101
350.6724	28.6545	362.4072	28.9845	374.142	29.3144
350.8248	28.6588	362.5596	28.9888	374.2944	29.3187
350.9772	28.6631	362.712	28.993	374.4468	29.323
351.1296	28.6674	362.8644	28.9973	374.5992	29.3273
351.282	28.6717	363.0168	29.0016	374.7516	29.3316
351.4344	28.676	363.1692	29.0059	374.904	29.3358
351.5868	28.6802	363.3216	29.0102	375.0564	29.3401
351.7392	28.6845	363.474	29.0145	375.2088	29.3444
351.8916	28.6888	363.6264	29.0188	375.3612	29.3487
352.044	28.6931	363.7788	29.023	375.5136	29.353
352.1964	28.6974	363.9312	29.0273	375.666	29.3573
352.3488	28.7017	364.0836	29.0316	375.8184	29.3616
352.5012	28.7059	364.236	29.0359	375.9708	29.3658
352.6536	28.7102	364.3884	29.0402	376.1232	29.3701
352.806	28.7145	364.5408	29.0445	376.2756	29.3744
352.9584	28.7188	364.6932	29.0487	376.428	29.3787
353.1108	28.7231	364.8456	29.053	376.5804	29.383
353.2632	28.7274	364.998	29.0573	376.7328	29.3873
353.4156	28.7317	365.1504	29.0616	376.8852	29.3916
353.568	28.7359	365.3028	29.0659	377.0376	29.3958
353.7204	28.7402	365.4552	29.0702	377.19	29.4001
353.8728	28.7445	365.6076	29.0745	377.3424	29.4044
354.0252	28.7488	365.76	29.0787	377.4948	29.4087
354.1776	28.7531	365.9124	29.083	377.6472	29.413
354.33	28.7574	366.0648	29.0873	377.7996	29.4173
354.4824	28.7617	366.2172	29.0916	377.952	29.4215
354.6348	28.7659	366.3696	29.0959	378.1044	29.4258
354.7872	28.7702	366.522	29.1002	378.2568	29.4301
354.9396	28.7745	366.6744	29.1045	378.4092	29.4344
355.092	28.7788	366.8268	29.1087	378.5616	29.4387
355.2444	28.7831	366.9792	29.113	378.714	29.443
355.3968	28.7874	367.1316	29.1173	378.8664	29.4473
355.5492	28.7916	367.284	29.1216	379.0188	29.4515
355.7016	28.7959	367.4364	29.1259	379.1712	29.4558
355.854	28.8002	367.5888	29.1302	379.3236	29.4601
356.0064	28.8045	367.7412	29.1345	379.476	29.4644

379.6284	29.4687	391.3632	29.7986	403.098	30.1286
379.7808	29.473	391.5156	29.8029	403.2504	30.1329
379.9332	29.4773	391.668	29.8072	403.4028	30.1371
380.0856	29.4815	391.8204	29.8115	403.5552	30.1414
380.238	29.4858	391.9728	29.8158	403.7076	30.1457
380.3904	29.4901	392.1252	29.8201	403.86	30.15
380.5428	29.4944	392.2776	29.8243	404.0124	30.1543
380.6952	29.4987	392.43	29.8286	404.1648	30.1586
380.8476	29.503	392.5824	29.8329	404.3172	30.1629
381	29.5072	392.7348	29.8372	404.4696	30.1671
381.1524	29.5115	392.8872	29.8415	404.622	30.1714
381.3048	29.5158	393.0396	29.8458	404.7744	30.1757
381.4572	29.5201	393.192	29.8501	404.9268	30.18
381.6096	29.5244	393.3444	29.8543	405.0792	30.1843
381.762	29.5287	393.4968	29.8586	405.2316	30.1886
381.9144	29.533	393.6492	29.8629	405.384	30.1929
382.0668	29.5372	393.8016	29.8672	405.5364	30.1971
382.2192	29.5415	393.954	29.8715	405.6888	30.2014
382.3716	29.5458	394.1064	29.8758	405.8412	30.2057
382.524	29.5501	394.2588	29.88	405.9936	30.21
382.6764	29.5544	394.4112	29.8843	406.146	30.2143
382.8288	29.5587	394.5636	29.8886	406.2984	30.2186
382.9812	29.563	394.716	29.8929	406.4508	30.2229
383.1336	29.5672	394.8684	29.8972	406.6032	30.2271
383.286	29.5715	395.0208	29.9015	406.7556	30.2314
383.4384	29.5758	395.1732	29.9058	406.908	30.2357
383.5908	29.5801	395.3256	29.91	407.0604	30.24
383.7432	29.5844	395.478	29.9143	407.2128	30.2443
383.8956	29.5887	395.6304	29.9186	407.3652	30.2486
384.048	29.5929	395.7828	29.9229	407.5176	30.2528
384.2004	29.5972	395.9352	29.9272	407.67	30.2571
384.3528	29.6015	396.0876	29.9315	407.8224	30.2614
384.5052	29.6058	396.24	29.9358	407.9748	30.2657
384.6576	29.6101	396.3924	29.94	408.1272	30.27
384.81	29.6144	396.5448	29.9443	408.2796	30.2743
384.9624	29.6187	396.6972	29.9486	408.432	30.2786
385.1148	29.6229	396.8496	29.9529	408.5844	30.2828
385.2672	29.6272	397.002	29.9572	408.7368	30.2871
385.4196	29.6315	397.1544	29.9615	408.8892	30.2914
385.572	29.6358	397.3068	29.9657	409.0416	30.2957
385.7244	29.6401	397.4592	29.97	409.194	30.3
385.8768	29.6444	397.6116	29.9743	409.3464	30.3043
386.0292	29.6487	397.764	29.9786	409.4988	30.3086
386.1816	29.6529	397.9164	29.9829	409.6512	30.3128
386.334	29.6572	398.0688	29.9872	409.8036	30.3171
386.4864	29.6615	398.2212	29.9915	409.956	30.3214
386.6388	29.6658	398.3736	29.9957	410.1084	30.3257
386.7912	29.6701	398.526	30	410.2608	30.33
386.9436	29.6744	398.6784	30.0043	410.4132	30.3343
387.096	29.6786	398.8308	30.0086	410.5656	30.3385
387.2484	29.6829	398.9832	30.0129	410.718	30.3428
387.4008	29.6872	399.1356	30.0172	410.8704	30.3471
387.5532	29.6915	399.288	30.0215	411.0228	30.3514
387.7056	29.6958	399.4404	30.0257	411.1752	30.3557
387.858	29.7001	399.5928	30.03	411.3276	30.36
388.0104	29.7044	399.7452	30.0343	411.48	30.3643
388.1628	29.7086	399.8976	30.0386	411.6324	30.3685
388.3152	29.7129	400.05	30.0429	411.7848	30.3728
388.4676	29.7172	400.2024	30.0472	411.9372	30.3771
388.62	29.7215	400.3548	30.0514	412.0896	30.3814
388.7724	29.7258	400.5072	30.0557	412.242	30.3857
388.9248	29.7301	400.6596	30.06	412.3944	30.39
389.0772	29.7344	400.812	30.0643	412.5468	30.3943
389.2296	29.7386	400.9644	30.0686	412.6992	30.3985
389.382	29.7429	401.1168	30.0729	412.8516	30.4028
389.5344	29.7472	401.2692	30.0772	413.004	30.4071
389.6868	29.7515	401.4216	30.0814	413.1564	30.4114
389.8392	29.7558	401.574	30.0857	413.3088	30.4157
389.9916	29.7601	401.7264	30.09	413.4612	30.42
390.144	29.7644	401.8788	30.0943	413.6136	30.4242
390.2964	29.7686	402.0312	30.0986	413.766	30.4285
390.4488	29.7729	402.1836	30.1029	413.9184	30.4328
390.6012	29.7772	402.336	30.1072	414.0708	30.4371
390.7536	29.7815	402.4884	30.1114	414.2232	30.4414
390.906	29.7858	402.6408	30.1157	414.3756	30.4457
391.0584	29.7901	402.7932	30.12	414.528	30.45
391.2108	29.7943	402.9456	30.1243	414.6804	30.4542

414.8328	30.4585	426.5676	30.7885	438.3024	31.1184
414.9852	30.4628	426.72	30.7928	438.4548	31.1227
415.1376	30.4671	426.8724	30.797	438.6072	31.127
415.29	30.4714	427.0248	30.8013	438.7596	31.1313
415.4424	30.4757	427.1772	30.8056	438.912	31.1356
415.5948	30.48	427.3296	30.8099	439.0644	31.1398
415.7472	30.4842	427.482	30.8142	439.2168	31.1441
415.8996	30.4885	427.6344	30.8185	439.3692	31.1484
416.052	30.4928	427.7868	30.8228	439.5216	31.1527
416.2044	30.4971	427.9392	30.827	439.674	31.157
416.3568	30.5014	428.0916	30.8313	439.8264	31.1613
416.5092	30.5057	428.244	30.8356	439.9788	31.1656
416.6616	30.5099	428.3964	30.8399	440.1312	31.1698
416.814	30.5142	428.5488	30.8442	440.2836	31.1741
416.9664	30.5185	428.7012	30.8485	440.436	31.1784
417.1188	30.5228	428.8536	30.8528	440.5884	31.1827
417.2712	30.5271	429.006	30.857	440.7408	31.187
417.4236	30.5314	429.1584	30.8613	440.8932	31.1913
417.576	30.5357	429.3108	30.8656	441.0456	31.1956
417.7284	30.5399	429.4632	30.8699	441.198	31.1998
417.8808	30.5442	429.6156	30.8742	441.3504	31.2041
418.0332	30.5485	429.768	30.8785	441.5028	31.2084
418.1856	30.5528	429.9204	30.8827	441.6552	31.2127
418.338	30.5571	430.0728	30.887	441.8076	31.217
418.4904	30.5614	430.2252	30.8913	441.96	31.2213
418.6428	30.5657	430.3776	30.8956	442.1124	31.2255
418.7952	30.5699	430.53	30.8999	442.2648	31.2298
418.9476	30.5742	430.6824	30.9042	442.4172	31.2341
419.1	30.5785	430.8348	30.9085	442.5696	31.2384
419.2524	30.5828	430.9872	30.9127	442.722	31.2427
419.4048	30.5871	431.1396	30.917	442.8744	31.247
419.5572	30.5914	431.292	30.9213	443.0268	31.2513
419.7096	30.5956	431.4444	30.9256	443.1792	31.2555
419.862	30.5999	431.5968	30.9299	443.3316	31.2598
420.0144	30.6042	431.7492	30.9342	443.484	31.2641
420.1668	30.6085	431.9016	30.9385	443.6364	31.2684
420.3192	30.6128	432.054	30.9427	443.7888	31.2727
420.4716	30.6171	432.2064	30.947	443.9412	31.277
420.624	30.6214	432.3588	30.9513	444.0936	31.2813
420.7764	30.6256	432.5112	30.9556	444.246	31.2855
420.9288	30.6299	432.6636	30.9599	444.3984	31.2898
421.0812	30.6342	432.816	30.9642	444.5508	31.2941
421.2336	30.6385	432.9684	30.9684	444.7032	31.2984
421.386	30.6428	433.1208	30.9727	444.8556	31.3027
421.5384	30.6471	433.2732	30.977	445.008	31.307
421.6908	30.6514	433.4256	30.9813	445.1604	31.3112
421.8432	30.6556	433.578	30.9856	445.3128	31.3155
421.9956	30.6599	433.7304	30.9899	445.4652	31.3198
422.148	30.6642	433.8828	30.9942	445.6176	31.3241
422.3004	30.6685	434.0352	30.9984	445.77	31.3284
422.4528	30.6728	434.1876	31.0027	445.9224	31.3327
422.6052	30.6771	434.34	31.007	446.0748	31.337
422.7576	30.6813	434.4924	31.0113	446.2272	31.3412
422.91	30.6856	434.6448	31.0156	446.3796	31.3455
423.0624	30.6899	434.7972	31.0199	446.532	31.3498
423.2148	30.6942	434.9496	31.0242	446.6844	31.3541
423.3672	30.6985	435.102	31.0284	446.8368	31.3584
423.5196	30.7028	435.2544	31.0327	446.9892	31.3627
423.672	30.7071	435.4068	31.037	447.1416	31.367
423.8244	30.7113	435.5592	31.0413	447.294	31.3712
423.9768	30.7156	435.7116	31.0456	447.4464	31.3755
424.1292	30.7199	435.864	31.0499	447.5988	31.3798
424.2816	30.7242	436.0164	31.0541	447.7512	31.3841
424.434	30.7285	436.1688	31.0584	447.9036	31.3884
424.5864	30.7328	436.3212	31.0627	448.056	31.3927
424.7388	30.7371	436.4736	31.067	448.2084	31.3969
424.8912	30.7413	436.626	31.0713	448.3608	31.4012
425.0436	30.7456	436.7784	31.0756	448.5132	31.4055
425.196	30.7499	436.9308	31.0799	448.6656	31.4098
425.3484	30.7542	437.0832	31.0841	448.818	31.4141
425.5008	30.7585	437.2356	31.0884	448.9704	31.4184
425.6532	30.7628	437.388	31.0927	449.1228	31.4227
425.8056	30.767	437.5404	31.097	449.2752	31.4269
425.958	30.7713	437.6928	31.1013	449.4276	31.4312
426.1104	30.7756	437.8452	31.1056	449.58	31.4355
426.2628	30.7799	437.9976	31.1099	449.7324	31.4398
426.4152	30.7842	438.15	31.1141	449.8848	31.4441

450.0372	31.4484	461.772	31.7783	473.5068	32.1083
450.1896	31.4527	461.9244	31.7826	473.6592	32.1126
450.342	31.4569	462.0768	31.7869	473.8116	32.1168
450.4944	31.4612	462.2292	31.7912	473.964	32.1211
450.6468	31.4655	462.3816	31.7955	474.1164	32.1254
450.7992	31.4698	462.534	31.7997	474.2688	32.1297
450.9516	31.4741	462.6864	31.804	474.4212	32.134
451.104	31.4784	462.8388	31.8083	474.5736	32.1383
451.2564	31.4827	462.9912	31.8126	474.726	32.1425
451.4088	31.4869	463.1436	31.8169	474.8784	32.1468
451.5612	31.4912	463.296	31.8212	475.0308	32.1511
451.7136	31.4955	463.4484	31.8255	475.1832	32.1554
451.866	31.4998	463.6008	31.8297	475.3356	32.1597
452.0184	31.5041	463.7532	31.834	475.488	32.164
452.1708	31.5084	463.9056	31.8383	475.6404	32.1683
452.3232	31.5126	464.058	31.8426	475.7928	32.1725
452.4756	31.5169	464.2104	31.8469	475.9452	32.1768
452.628	31.5212	464.3628	31.8512	476.0976	32.1811
452.7804	31.5255	464.5152	31.8554	476.25	32.1854
452.9328	31.5298	464.6676	31.8597	476.4024	32.1897
453.0852	31.5341	464.82	31.864	476.5548	32.194
453.2376	31.5384	464.9724	31.8683	476.7072	32.1983
453.39	31.5426	465.1248	31.8726	476.8596	32.2025
453.5424	31.5469	465.2772	31.8769	477.012	32.2068
453.6948	31.5512	465.4296	31.8812	477.1644	32.2111
453.8472	31.5555	465.582	31.8854	477.3168	32.2154
453.9996	31.5598	465.7344	31.8897	477.4692	32.2197
454.152	31.5641	465.8868	31.894	477.6216	32.224
454.3044	31.5684	466.0392	31.8983	477.774	32.2282
454.4568	31.5726	466.1916	31.9026	477.9264	32.2325
454.6092	31.5769	466.344	31.9069	478.0788	32.2368
454.7616	31.5812	466.4964	31.9112	478.2312	32.2411
454.914	31.5855	466.6488	31.9154	478.3836	32.2454
455.0664	31.5898	466.8012	31.9197	478.536	32.2497
455.2188	31.5941	466.9536	31.924	478.6884	32.254
455.3712	31.5983	467.106	31.9283	478.8408	32.2582
455.5236	31.6026	467.2584	31.9326	478.9932	32.2625
455.676	31.6069	467.4108	31.9369	479.1456	32.2668
455.8284	31.6112	467.5632	31.9412	479.298	32.2711
455.9808	31.6155	467.7156	31.9454	479.4504	32.2754
456.1332	31.6198	467.868	31.9497	479.6028	32.2797
456.2856	31.6241	468.0204	31.954	479.7552	32.284
456.438	31.6283	468.1728	31.9583	479.9076	32.2882
456.5904	31.6326	468.3252	31.9626	480.06	32.2925
456.7428	31.6369	468.4776	31.9669	480.2124	32.2968
456.8952	31.6412	468.63	31.9711	480.3648	32.3011
457.0476	31.6455	468.7824	31.9754	480.5172	32.3054
457.2	31.6498	468.9348	31.9797	480.6696	32.3097
457.3524	31.6541	469.0872	31.984	480.822	32.3139
457.5048	31.6583	469.2396	31.9883	480.9744	32.3182
457.6572	31.6626	469.392	31.9926	481.1268	32.3225
457.8096	31.6669	469.5444	31.9969	481.2792	32.3268
457.962	31.6712	469.6968	32.0011	481.4316	32.3311
458.1144	31.6755	469.8492	32.0054	481.584	32.3354
458.2668	31.6798	470.0016	32.0097	481.7364	32.3397
458.4192	31.684	470.154	32.014	481.8888	32.3439
458.5716	31.6883	470.3064	32.0183	482.0412	32.3482
458.724	31.6926	470.4588	32.0226	482.1936	32.3525
458.8764	31.6969	470.6112	32.0269	482.346	32.3568
459.0288	31.7012	470.7636	32.0311	482.4984	32.3611
459.1812	31.7055	470.916	32.0354	482.6508	32.3654
459.3336	31.7098	471.0684	32.0397	482.8032	32.3697
459.486	31.714	471.2208	32.044	482.9556	32.3739
459.6384	31.7183	471.3732	32.0483	483.108	32.3782
459.7908	31.7226	471.5256	32.0526	483.2604	32.3825
459.9432	31.7269	471.678	32.0568	483.4128	32.3868
460.0956	31.7312	471.8304	32.0611	483.5652	32.3911
460.248	31.7355	471.9828	32.0654	483.7176	32.3954
460.4004	31.7398	472.1352	32.0697	483.87	32.3997
460.5528	31.744	472.2876	32.074	484.0224	32.4039
460.7052	31.7483	472.44	32.0783	484.1748	32.4082
460.8576	31.7526	472.5924	32.0826	484.3272	32.4125
461.01	31.7569	472.7448	32.0868	484.4796	32.4168
461.1624	31.7612	472.8972	32.0911	484.632	32.4211
461.3148	31.7655	473.0496	32.0954	484.7844	32.4254
461.4672	31.7697	473.202	32.0997	484.9368	32.4296
461.6196	31.774	473.3544	32.104	485.0892	32.4339

485.2416	32.4382	496.9764	32.7682	508.7112	33.0981
485.394	32.4425	497.1288	32.7724	508.8636	33.1024
485.5464	32.4468	497.2812	32.7767	509.016	33.1067
485.6988	32.4511	497.4336	32.781	509.1684	33.111
485.8512	32.4554	497.586	32.7853	509.3208	33.1152
486.0036	32.4596	497.7384	32.7896	509.4732	33.1195
486.156	32.4639	497.8908	32.7939	509.6256	33.1238
486.3084	32.4682	498.0432	32.7982	509.778	33.1281
486.4608	32.4725	498.1956	32.8024	509.9304	33.1324
486.6132	32.4768	498.348	32.8067	510.0828	33.1367
486.7656	32.4811	498.5004	32.811	510.2352	33.141
486.918	32.4854	498.6528	32.8153	510.3876	33.1452
487.0704	32.4896	498.8052	32.8196	510.54	33.1495
487.2228	32.4939	498.9576	32.8239	510.6924	33.1538
487.3752	32.4982	499.11	32.8282	510.8448	33.1581
487.5276	32.5025	499.2624	32.8324	510.9972	33.1624
487.68	32.5068	499.4148	32.8367	511.1496	33.1667
487.8324	32.5111	499.5672	32.841	511.302	33.171
487.9848	32.5153	499.7196	32.8453	511.4544	33.1752
488.1372	32.5196	499.872	32.8496	511.6068	33.1795
488.2896	32.5239	500.0244	32.8539	511.7592	33.1838
488.442	32.5282	500.1768	32.8581	511.9116	33.1881
488.5944	32.5325	500.3292	32.8624	512.064	33.1924
488.7468	32.5368	500.4816	32.8667	512.2164	33.1967
488.8992	32.5411	500.634	32.871	512.3688	33.201
489.0516	32.5453	500.7864	32.8753	512.5212	33.2052
489.204	32.5496	500.9388	32.8796	512.6736	33.2095
489.3564	32.5539	501.0912	32.8839	512.826	33.2138
489.5088	32.5582	501.2436	32.8881	512.9784	33.2181
489.6612	32.5625	501.396	32.8924	513.1308	33.2224
489.8136	32.5668	501.5484	32.8967	513.2832	33.2267
489.966	32.5711	501.7008	32.901	513.4356	33.2309
490.1184	32.5753	501.8532	32.9053	513.588	33.2352
490.2708	32.5796	502.0056	32.9096	513.7404	33.2395
490.4232	32.5839	502.158	32.9139	513.8928	33.2438
490.5756	32.5882	502.3104	32.9181	514.0452	33.2481
490.728	32.5925	502.4628	32.9224	514.1976	33.2524
490.8804	32.5968	502.6152	32.9267	514.35	33.2567
491.0328	32.601	502.7676	32.931	514.5024	33.2609
491.1852	32.6053	502.92	32.9353	514.6548	33.2652
491.3376	32.6096	503.0724	32.9396	514.8072	33.2695
491.49	32.6139	503.2248	32.9438	514.9596	33.2738
491.6424	32.6182	503.3772	32.9481	515.112	33.2781
491.7948	32.6225	503.5296	32.9524	515.2644	33.2824
491.9472	32.6268	503.682	32.9567	515.4168	33.2867
492.0996	32.631	503.8344	32.961	515.5692	33.2909
492.252	32.6353	503.9868	32.9653	515.7216	33.2952
492.4044	32.6396	504.1392	32.9696	515.874	33.2995
492.5568	32.6439	504.2916	32.9738	516.0264	33.3038
492.7092	32.6482	504.444	32.9781	516.1788	33.3081
492.8616	32.6525	504.5964	32.9824	516.3312	33.3124
493.014	32.6568	504.7488	32.9867	516.4836	33.3166
493.1664	32.661	504.9012	32.991	516.636	33.3209
493.3188	32.6653	505.0536	32.9953	516.7884	33.3252
493.4712	32.6696	505.206	32.9996	516.9408	33.3295
493.6236	32.6739	505.3584	33.0038	517.0932	33.3338
493.776	32.6782	505.5108	33.0081	517.2456	33.3381
493.9284	32.6825	505.6632	33.0124	517.398	33.3424
494.0808	32.6867	505.8156	33.0167	517.5504	33.3466
494.2332	32.691	505.968	33.021	517.7028	33.3509
494.3856	32.6953	506.1204	33.0253	517.8552	33.3552
494.538	32.6996	506.2728	33.0295	518.0076	33.3595
494.6904	32.7039	506.4252	33.0338	518.16	33.3638
494.8428	32.7082	506.5776	33.0381	518.3124	33.3681
494.9952	32.7125	506.73	33.0424	518.4648	33.3724
495.1476	32.7167	506.8824	33.0467	518.6172	33.3766
495.3	32.721	507.0348	33.051	518.7696	33.3809
495.4524	32.7253	507.1872	33.0553	518.922	33.3852
495.6048	32.7296	507.3396	33.0595	519.0744	33.3895
495.7572	32.7339	507.492	33.0638	519.2268	33.3938
495.9096	32.7382	507.6444	33.0681	519.3792	33.3981
496.062	32.7425	507.7968	33.0724	519.5316	33.4023
496.2144	32.7467	507.9492	33.0767	519.684	33.4066
496.3668	32.751	508.1016	33.081	519.8364	33.4109
496.5192	32.7553	508.254	33.0853	519.9888	33.4152
496.6716	32.7596	508.4064	33.0895	520.1412	33.4195
496.824	32.7639	508.5588	33.0938	520.2936	33.4238

520.446	33.4281	532.1808	33.758	543.9156	34.088
520.5984	33.4323	532.3332	33.7623	544.068	34.0922
520.7508	33.4366	532.4856	33.7666	544.2204	34.0965
520.9032	33.4409	532.638	33.7709	544.3728	34.1008
521.0556	33.4452	532.7904	33.7751	544.5252	34.1051
521.208	33.4495	532.9428	33.7794	544.6776	34.1094
521.3604	33.4538	533.0952	33.7837	544.83	34.1137
521.5128	33.4581	533.2476	33.788	544.9824	34.118
521.6652	33.4623	533.4	33.7923	545.1348	34.1222
521.8176	33.4666	533.5524	33.7966	545.2872	34.1265
521.97	33.4709	533.7048	33.8009	545.4396	34.1308
522.1224	33.4752	533.8572	33.8051	545.592	34.1351
522.2748	33.4795	534.0096	33.8094	545.7444	34.1394
522.4272	33.4838	534.162	33.8137	545.8968	34.1437
522.5796	33.488	534.3144	33.818	546.0492	34.1479
522.732	33.4923	534.4668	33.8223	546.2016	34.1522
522.8844	33.4966	534.6192	33.8266	546.354	34.1565
523.0368	33.5009	534.7716	33.8309	546.5064	34.1608
523.1892	33.5052	534.924	33.8351	546.6588	34.1651
523.3416	33.5095	535.0764	33.8394	546.8112	34.1694
523.494	33.5138	535.2288	33.8437	546.9636	34.1737
523.6464	33.518	535.3812	33.848	547.116	34.1779
523.7988	33.5223	535.5336	33.8523	547.2684	34.1822
523.9512	33.5266	535.686	33.8566	547.4208	34.1865
524.1036	33.5309	535.8384	33.8608	547.5732	34.1908
524.256	33.5352	535.9908	33.8651	547.7256	34.1951
524.4084	33.5395	536.1432	33.8694	547.878	34.1994
524.5608	33.5438	536.2956	33.8737	548.0304	34.2036
524.7132	33.548	536.448	33.878	548.1828	34.2079
524.8656	33.5523	536.6004	33.8823	548.3352	34.2122
525.018	33.5566	536.7528	33.8866	548.4876	34.2165
525.1704	33.5609	536.9052	33.8908	548.64	34.2208
525.3228	33.5652	537.0576	33.8951	548.7924	34.2251
525.4752	33.5695	537.21	33.8994	548.9448	34.2294
525.6276	33.5737	537.3624	33.9037	549.0972	34.2336
525.78	33.578	537.5148	33.908	549.2496	34.2379
525.9324	33.5823	537.6672	33.9123	549.402	34.2422
526.0848	33.5866	537.8196	33.9165	549.5544	34.2465
526.2372	33.5909	537.972	33.9208	549.7068	34.2508
526.3896	33.5952	538.1244	33.9251	549.8592	34.2551
526.542	33.5995	538.2768	33.9294	550.0116	34.2594
526.6944	33.6037	538.4292	33.9337	550.164	34.2636
526.8468	33.608	538.5816	33.938	550.3164	34.2679
526.9992	33.6123	538.734	33.9423	550.4688	34.2722
527.1516	33.6166	538.8864	33.9465	550.6212	34.2765
527.304	33.6209	539.0388	33.9508	550.7736	34.2808
527.4564	33.6252	539.1912	33.9551	550.926	34.2851
527.6088	33.6295	539.3436	33.9594	551.0784	34.2894
527.7612	33.6337	539.496	33.9637	551.2308	34.2936
527.9136	33.638	539.6484	33.968	551.3832	34.2979
528.066	33.6423	539.8008	33.9723	551.5356	34.3022
528.2184	33.6466	539.9532	33.9765	551.688	34.3065
528.3708	33.6509	540.1056	33.9808	551.8404	34.3108
528.5232	33.6552	540.258	33.9851	551.9928	34.3151
528.6756	33.6595	540.4104	33.9894	552.1452	34.3193
528.828	33.6637	540.5628	33.9937	552.2976	34.3236
528.9804	33.668	540.7152	33.998	552.45	34.3279
529.1328	33.6723	540.8676	34.0023	552.6024	34.3322
529.2852	33.6766	541.02	34.0065	552.7548	34.3365
529.4376	33.6809	541.1724	34.0108	552.9072	34.3408
529.59	33.6852	541.3248	34.0151	553.0596	34.3451
529.7424	33.6894	541.4772	34.0194	553.212	34.3493
529.8948	33.6937	541.6296	34.0237	553.3644	34.3536
530.0472	33.698	541.782	34.028	553.5168	34.3579
530.1996	33.7023	541.9344	34.0322	553.6692	34.3622
530.352	33.7066	542.0868	34.0365	553.8216	34.3665
530.5044	33.7109	542.2392	34.0408	553.974	34.3708
530.6568	33.7152	542.3916	34.0451	554.1264	34.375
530.8092	33.7194	542.544	34.0494	554.2788	34.3793
530.9616	33.7237	542.6964	34.0537	554.4312	34.3836
531.114	33.728	542.8488	34.058	554.5836	34.3879
531.2664	33.7323	543.0012	34.0622	554.736	34.3922
531.4188	33.7366	543.1536	34.0665	554.8884	34.3965
531.5712	33.7409	543.306	34.0708	555.0408	34.4008
531.7236	33.7451	543.4584	34.0751	555.1932	34.405
531.876	33.7494	543.6108	34.0794	555.3456	34.4093
532.0284	33.7537	543.7632	34.0837	555.498	34.4136

555.6504	34.4179	567.3852	34.7478	579.12	35.0778
555.8028	34.4222	567.5376	34.7521	579.2724	35.0821
555.9552	34.4265	567.69	34.7564	579.4248	35.0864
556.1076	34.4308	567.8424	34.7607	579.5772	35.0907
556.26	34.435	567.9948	34.765	579.7296	35.0949
556.4124	34.4393	568.1472	34.7693	579.882	35.0992
556.5648	34.4436	568.2996	34.7736	580.0344	35.1035
556.7172	34.4479	568.452	34.7778	580.1868	35.1078
556.8696	34.4522	568.6044	34.7821	580.3392	35.1121
557.022	34.4565	568.7568	34.7864	580.4916	35.1164
557.1744	34.4608	568.9092	34.7907	580.644	35.1206
557.3268	34.465	569.0616	34.795	580.7964	35.1249
557.4792	34.4693	569.214	34.7993	580.9488	35.1292
557.6316	34.4736	569.3664	34.8036	581.1012	35.1335
557.784	34.4779	569.5188	34.8078	581.2536	35.1378
557.9364	34.4822	569.6712	34.8121	581.406	35.1421
558.0888	34.4865	569.8236	34.8164	581.5584	35.1464
558.2412	34.4907	569.976	34.8207	581.7108	35.1506
558.3936	34.495	570.1284	34.825	581.8632	35.1549
558.546	34.4993	570.2808	34.8293	582.0156	35.1592
558.6984	34.5036	570.4332	34.8335	582.168	35.1635
558.8508	34.5079	570.5856	34.8378	582.3204	35.1678
559.0032	34.5122	570.738	34.8421	582.4728	35.1721
559.1556	34.5165	570.8904	34.8464	582.6252	35.1764
559.308	34.5207	571.0428	34.8507	582.7776	35.1806
559.4604	34.525	571.1952	34.855	582.93	35.1849
559.6128	34.5293	571.3476	34.8593	583.0824	35.1892
559.7652	34.5336	571.5	34.8635	583.2348	35.1935
559.9176	34.5379	571.6524	34.8678	583.3872	35.1978
560.07	34.5422	571.8048	34.8721	583.5396	35.2021
560.2224	34.5465	571.9572	34.8764	583.692	35.2063
560.3748	34.5507	572.1096	34.8807	583.8444	35.2106
560.5272	34.555	572.262	34.885	583.9968	35.2149
560.6796	34.5593	572.4144	34.8893	584.1492	35.2192
560.832	34.5636	572.5668	34.8935	584.3016	35.2235
560.9844	34.5679	572.7192	34.8978	584.454	35.2278
561.1368	34.5722	572.8716	34.9021	584.6064	35.2321
561.2892	34.5764	573.024	34.9064	584.7588	35.2363
561.4416	34.5807	573.1764	34.9107	584.9112	35.2406
561.594	34.585	573.3288	34.915	585.0636	35.2449
561.7464	34.5893	573.4812	34.9193	585.216	35.2492
561.8988	34.5936	573.6336	34.9235	585.3684	35.2535
562.0512	34.5979	573.786	34.9278	585.5208	35.2578
562.2036	34.6022	573.9384	34.9321	585.6732	35.2621
562.356	34.6064	574.0908	34.9364	585.8256	35.2663
562.5084	34.6107	574.2432	34.9407	585.978	35.2706
562.6608	34.615	574.3956	34.945	586.1304	35.2749
562.8132	34.6193	574.548	34.9492	586.2828	35.2792
562.9656	34.6236	574.7004	34.9535	586.4352	35.2835
563.118	34.6279	574.8528	34.9578	586.5876	35.2878
563.2704	34.6322	575.0052	34.9621	586.74	35.292
563.4228	34.6364	575.1576	34.9664	586.8924	35.2963
563.5752	34.6407	575.31	34.9707	587.0448	35.3006
563.7276	34.645	575.4624	34.975	587.1972	35.3049
563.88	34.6493	575.6148	34.9792	587.3496	35.3092
564.0324	34.6536	575.7672	34.9835	587.502	35.3135
564.1848	34.6579	575.9196	34.9878	587.6544	35.3178
564.3372	34.6621	576.072	34.9921	587.8068	35.322
564.4896	34.6664	576.2244	34.9964	587.9592	35.3263
564.642	34.6707	576.3768	35.0007	588.1116	35.3306
564.7944	34.675	576.5292	35.005	588.264	35.3349
564.9468	34.6793	576.6816	35.0092	588.4164	35.3392
565.0992	34.6836	576.834	35.0135	588.5688	35.3435
565.2516	34.6879	576.9864	35.0178	588.7212	35.3478
565.404	34.6921	577.1388	35.0221	588.8736	35.352
565.5564	34.6964	577.2912	35.0264	589.026	35.3563
565.7088	34.7007	577.4436	35.0307	589.1784	35.3606
565.8612	34.705	577.596	35.0349	589.3308	35.3649
566.0136	34.7093	577.7484	35.0392	589.4832	35.3692
566.166	34.7136	577.9008	35.0435	589.6356	35.3735
566.3184	34.7179	578.0532	35.0478	589.788	35.3778
566.4708	34.7221	578.2056	35.0521	589.9404	35.382
566.6232	34.7264	578.358	35.0564	590.0928	35.3863
566.7756	34.7307	578.5104	35.0607	590.2452	35.3906
566.928	34.735	578.6628	35.0649	590.3976	35.3949
567.0804	34.7393	578.8152	35.0692	590.55	35.3992
567.2328	34.7436	578.9676	35.0735	590.7024	35.4035

590.8548	35.4077	602.5896	35.7377	614.3244	36.0676
591.0072	35.412	602.742	35.742	614.4768	36.0719
591.1596	35.4163	602.8944	35.7463	614.6292	36.0762
591.312	35.4206	603.0468	35.7505	614.7816	36.0805
591.4644	35.4249	603.1992	35.7548	614.934	36.0848
591.6168	35.4292	603.3516	35.7591	615.0864	36.0891
591.7692	35.4335	603.504	35.7634	615.2388	36.0933
591.9216	35.4377	603.6564	35.7677	615.3912	36.0976
592.074	35.442	603.8088	35.772	615.5436	36.1019
592.2264	35.4463	603.9612	35.7763	615.696	36.1062
592.3788	35.4506	604.1136	35.7805	615.8484	36.1105
592.5312	35.4549	604.266	35.7848	616.0008	36.1148
592.6836	35.4592	604.4184	35.7891	616.1532	36.1191
592.836	35.4634	604.5708	35.7934	616.3056	36.1233
592.9884	35.4677	604.7232	35.7977	616.458	36.1276
593.1408	35.472	604.8756	35.802	616.6104	36.1319
593.2932	35.4763	605.028	35.8063	616.7628	36.1362
593.4456	35.4806	605.1804	35.8105	616.9152	36.1405
593.598	35.4849	605.3328	35.8148	617.0676	36.1448
593.7504	35.4892	605.4852	35.8191	617.22	36.1491
593.9028	35.4934	605.6376	35.8234	617.3724	36.1533
594.0552	35.4977	605.79	35.8277	617.5248	36.1576
594.2076	35.502	605.9424	35.832	617.6772	36.1619
594.36	35.5063	606.0948	35.8362	617.8296	36.1662
594.5124	35.5106	606.2472	35.8405	617.982	36.1705
594.6648	35.5149	606.3996	35.8448	618.1344	36.1748
594.8172	35.5192	606.552	35.8491	618.2868	36.1791
594.9696	35.5234	606.7044	35.8534	618.4392	36.1833
595.122	35.5277	606.8568	35.8577	618.5916	36.1876
595.2744	35.532	607.0092	35.862	618.744	36.1919
595.4268	35.5363	607.1616	35.8662	618.8964	36.1962
595.5792	35.5406	607.314	35.8705	619.0488	36.2005
595.7316	35.5449	607.4664	35.8748	619.2012	36.2048
595.884	35.5491	607.6188	35.8791	619.3536	36.209
596.0364	35.5534	607.7712	35.8834	619.506	36.2133
596.1888	35.5577	607.9236	35.8877	619.6584	36.2176
596.3412	35.562	608.076	35.892	619.8108	36.2219
596.4936	35.5663	608.2284	35.8962	619.9632	36.2262
596.646	35.5706	608.3808	35.9005	620.1156	36.2305
596.7984	35.5749	608.5332	35.9048	620.268	36.2348
596.9508	35.5791	608.6856	35.9091	620.4204	36.239
597.1032	35.5834	608.838	35.9134	620.5728	36.2433
597.2556	35.5877	608.9904	35.9177	620.7252	36.2476
597.408	35.592	609.1428	35.922	620.8776	36.2519
597.5604	35.5963	609.2952	35.9262	621.03	36.2562
597.7128	35.6006	609.4476	35.9305	621.1824	36.2605
597.8652	35.6049	609.6	35.9348	621.3348	36.2648
598.0176	35.6091	609.7524	35.9391	621.4872	36.269
598.17	35.6134	609.9048	35.9434	621.6396	36.2733
598.3224	35.6177	610.0572	35.9477	621.792	36.2776
598.4748	35.622	610.2096	35.9519	621.9444	36.2819
598.6272	35.6263	610.362	35.9562	622.0968	36.2862
598.7796	35.6306	610.5144	35.9605	622.2492	36.2905
598.932	35.6348	610.6668	35.9648	622.4016	36.2947
599.0844	35.6391	610.8192	35.9691	622.554	36.299
599.2368	35.6434	610.9716	35.9734	622.7064	36.3033
599.3892	35.6477	611.124	35.9777	622.8588	36.3076
599.5416	35.652	611.2764	35.9819	623.0112	36.3119
599.694	35.6563	611.4288	35.9862	623.1636	36.3162
599.8464	35.6606	611.5812	35.9905	623.316	36.3205
599.9988	35.6648	611.7336	35.9948	623.4684	36.3247
600.1512	35.6691	611.886	35.9991	623.6208	36.329
600.3036	35.6734	612.0384	36.0034	623.7732	36.3333
600.456	35.6777	612.1908	36.0076	623.9256	36.3376
600.6084	35.682	612.3432	36.0119	624.078	36.3419
600.7608	35.6863	612.4956	36.0162	624.2304	36.3462
600.9132	35.6906	612.648	36.0205	624.3828	36.3505
601.0656	35.6948	612.8004	36.0248	624.5352	36.3547
601.218	35.6991	612.9528	36.0291	624.6876	36.359
601.3704	35.7034	613.1052	36.0334	624.84	36.3633
601.5228	35.7077	613.2576	36.0376	624.9924	36.3676
601.6752	35.712	613.41	36.0419	625.1448	36.3719
601.8276	35.7163	613.5624	36.0462	625.2972	36.3762
601.98	35.7206	613.7148	36.0505	625.4496	36.3804
602.1324	35.7248	613.8672	36.0548	625.602	36.3847
602.2848	35.7291	614.0196	36.0591	625.7544	36.389
602.4372	35.7334	614.172	36.0634	625.9068	36.3933

626.0592	36.3976	637.794	36.7275	649.5288	37.0575
626.2116	36.4019	637.9464	36.7318	649.6812	37.0618
626.364	36.4062	638.0988	36.7361	649.8336	37.0661
626.5164	36.4104	638.2512	36.7404	649.986	37.0703
626.6688	36.4147	638.4036	36.7447	650.1384	37.0746
626.8212	36.419	638.556	36.749	650.2908	37.0789
626.9736	36.4233	638.7084	36.7532	650.4432	37.0832
627.126	36.4276	638.8608	36.7575	650.5956	37.0875
627.2784	36.4319	639.0132	36.7618	650.748	37.0918
627.4308	36.4362	639.1656	36.7661	650.9004	37.096
627.5832	36.4404	639.318	36.7704	651.0528	37.1003
627.7356	36.4447	639.4704	36.7747	651.2052	37.1046
627.888	36.449	639.6228	36.779	651.3576	37.1089
628.0404	36.4533	639.7752	36.7832	651.51	37.1132
628.1928	36.4576	639.9276	36.7875	651.6624	37.1175
628.3452	36.4619	640.08	36.7918	651.8148	37.1218
628.4976	36.4661	640.2324	36.7961	651.9672	37.126
628.65	36.4704	640.3848	36.8004	652.1196	37.1303
628.8024	36.4747	640.5372	36.8047	652.272	37.1346
628.9548	36.479	640.6896	36.809	652.4244	37.1389
629.1072	36.4833	640.842	36.8132	652.5768	37.1432
629.2596	36.4876	640.9944	36.8175	652.7292	37.1475
629.412	36.4919	641.1468	36.8218	652.8816	37.1518
629.5644	36.4961	641.2992	36.8261	653.034	37.156
629.7168	36.5004	641.4516	36.8304	653.1864	37.1603
629.8692	36.5047	641.604	36.8347	653.3388	37.1646
630.0216	36.509	641.7564	36.8389	653.4912	37.1689
630.174	36.5133	641.9088	36.8432	653.6436	37.1732
630.3264	36.5176	642.0612	36.8475	653.796	37.1775
630.4788	36.5219	642.2136	36.8518	653.9484	37.1818
630.6312	36.5261	642.366	36.8561	654.1008	37.186
630.7836	36.5304	642.5184	36.8604	654.2532	37.1903
630.936	36.5347	642.6708	36.8647	654.4056	37.1946
631.0884	36.539	642.8232	36.8689	654.558	37.1989
631.2408	36.5433	642.9756	36.8732	654.7104	37.2032
631.3932	36.5476	643.128	36.8775	654.8628	37.2075
631.5456	36.5518	643.2804	36.8818	655.0152	37.2117
631.698	36.5561	643.4328	36.8861	655.1676	37.216
631.8504	36.5604	643.5852	36.8904	655.32	37.2203
632.0028	36.5647	643.7376	36.8947	655.4724	37.2246
632.1552	36.569	643.89	36.8989	655.6248	37.2289
632.3076	36.5733	644.0424	36.9032	655.7772	37.2332
632.46	36.5776	644.1948	36.9075	655.9296	37.2375
632.6124	36.5818	644.3472	36.9118	656.082	37.2417
632.7648	36.5861	644.4996	36.9161	656.2344	37.246
632.9172	36.5904	644.652	36.9204	656.3868	37.2503
633.0696	36.5947	644.8044	36.9246	656.5392	37.2546
633.222	36.599	644.9568	36.9289	656.6916	37.2589
633.3744	36.6033	645.1092	36.9332	656.844	37.2632
633.5268	36.6076	645.2616	36.9375	656.9964	37.2674
633.6792	36.6118	645.414	36.9418	657.1488	37.2717
633.8316	36.6161	645.5664	36.9461	657.3012	37.276
633.984	36.6204	645.7188	36.9504	657.4536	37.2803
634.1364	36.6247	645.8712	36.9546	657.606	37.2846
634.2888	36.629	646.0236	36.9589	657.7584	37.2889
634.4412	36.6333	646.176	36.9632	657.9108	37.2932
634.5936	36.6376	646.3284	36.9675	658.0632	37.2974
634.746	36.6418	646.4808	36.9718	658.2156	37.3017
634.8984	36.6461	646.6332	36.9761	658.368	37.306
635.0508	36.6504	646.7856	36.9804	658.5204	37.3103
635.2032	36.6547	646.938	36.9846	658.6728	37.3146
635.3556	36.659	647.0904	36.9889	658.8252	37.3189
635.508	36.6633	647.2428	36.9932	658.9776	37.3232
635.6604	36.6675	647.3952	36.9975	659.13	37.3274
635.8128	36.6718	647.5476	37.0018	659.2824	37.3317
635.9652	36.6761	647.7	37.0061	659.4348	37.336
636.1176	36.6804	647.8524	37.0103	659.5872	37.3403
636.27	36.6847	648.0048	37.0146	659.7396	37.3446
636.4224	36.689	648.1572	37.0189	659.892	37.3489
636.5748	36.6933	648.3096	37.0232	660.0444	37.3531
636.7272	36.6975	648.462	37.0275	660.1968	37.3574
636.8796	36.7018	648.6144	37.0318	660.3492	37.3617
637.032	36.7061	648.7668	37.0361	660.5016	37.366
637.1844	36.7104	648.9192	37.0403	660.654	37.3703
637.3368	36.7147	649.0716	37.0446	660.8064	37.3746
637.4892	36.719	649.224	37.0489	660.9588	37.3789
637.6416	36.7233	649.3764	37.0532	661.1112	37.3831

661.2636	37.3874	672.9984	37.7174	684.7332	38.0473
661.416	37.3917	673.1508	37.7217	684.8856	38.0516
661.5684	37.396	673.3032	37.726	685.038	38.0559
661.7208	37.4003	673.4556	37.7302	685.1904	38.0602
661.8732	37.4046	673.608	37.7345	685.3428	38.0645
662.0256	37.4089	673.7604	37.7388	685.4952	38.0688
662.178	37.4131	673.9128	37.7431	685.6476	38.073
662.3304	37.4174	674.0652	37.7474	685.8	38.0773
662.4828	37.4217	674.2176	37.7517	685.9524	38.0816
662.6352	37.426	674.37	37.7559	686.1048	38.0859
662.7876	37.4303	674.5224	37.7602	686.2572	38.0902
662.94	37.4346	674.6748	37.7645	686.4096	38.0945
663.0924	37.4389	674.8272	37.7688	686.562	38.0987
663.2448	37.4431	674.9796	37.7731	686.7144	38.103
663.3972	37.4474	675.132	37.7774	686.8668	38.1073
663.5496	37.4517	675.2844	37.7817	687.0192	38.1116
663.702	37.456	675.4368	37.7859	687.1716	38.1159
663.8544	37.4603	675.5892	37.7902	687.324	38.1202
664.0068	37.4646	675.7416	37.7945	687.4764	38.1245
664.1592	37.4688	675.894	37.7988	687.6288	38.1287
664.3116	37.4731	676.0464	37.8031	687.7812	38.133
664.464	37.4774	676.1988	37.8074	687.9336	38.1373
664.6164	37.4817	676.3512	37.8116	688.086	38.1416
664.7688	37.486	676.5036	37.8159	688.2384	38.1459
664.9212	37.4903	676.656	37.8202	688.3908	38.1502
665.0736	37.4946	676.8084	37.8245	688.5432	38.1545
665.226	37.4988	676.9608	37.8288	688.6956	38.1587
665.3784	37.5031	677.1132	37.8331	688.848	38.163
665.5308	37.5074	677.2656	37.8374	689.0004	38.1673
665.6832	37.5117	677.418	37.8416	689.1528	38.1716
665.8356	37.516	677.5704	37.8459	689.3052	38.1759
665.988	37.5203	677.7228	37.8502	689.4576	38.1802
666.1404	37.5246	677.8752	37.8545	689.61	38.1844
666.2928	37.5288	678.0276	37.8588	689.7624	38.1887
666.4452	37.5331	678.18	37.8631	689.9148	38.193
666.5976	37.5374	678.3324	37.8674	690.0672	38.1973
666.75	37.5417	678.4848	37.8716	690.2196	38.2016
666.9024	37.546	678.6372	37.8759	690.372	38.2059
667.0548	37.5503	678.7896	37.8802	690.5244	38.2102
667.2072	37.5546	678.942	37.8845	690.6768	38.2144
667.3596	37.5588	679.0944	37.8888	690.8292	38.2187
667.512	37.5631	679.2468	37.8931	690.9816	38.223
667.6644	37.5674	679.3992	37.8974	691.134	38.2273
667.8168	37.5717	679.5516	37.9016	691.2864	38.2316
667.9692	37.576	679.704	37.9059	691.4388	38.2359
668.1216	37.5803	679.8564	37.9102	691.5912	38.2402
668.274	37.5845	680.0088	37.9145	691.7436	38.2444
668.4264	37.5888	680.1612	37.9188	691.896	38.2487
668.5788	37.5931	680.3136	37.9231	692.0484	38.253
668.7312	37.5974	680.466	37.9273	692.2008	38.2573
668.8836	37.6017	680.6184	37.9316	692.3532	38.2616
669.036	37.606	680.7708	37.9359	692.5056	38.2659
669.1884	37.6103	680.9232	37.9402	692.658	38.2701
669.3408	37.6145	681.0756	37.9445	692.8104	38.2744
669.4932	37.6188	681.228	37.9488	692.9628	38.2787
669.6456	37.6231	681.3804	37.9531	693.1152	38.283
669.798	37.6274	681.5328	37.9573	693.2676	38.2873
669.9504	37.6317	681.6852	37.9616	693.42	38.2916
670.1028	37.636	681.8376	37.9659	693.5724	38.2959
670.2552	37.6402	681.99	37.9702	693.7248	38.3001
670.4076	37.6445	682.1424	37.9745	693.8772	38.3044
670.56	37.6488	682.2948	37.9788	694.0296	38.3087
670.7124	37.6531	682.4472	37.9831	694.182	38.313
670.8648	37.6574	682.5996	37.9873	694.3344	38.3173
671.0172	37.6617	682.752	37.9916	694.4868	38.3216
671.1696	37.666	682.9044	37.9959	694.6392	38.3259
671.322	37.6702	683.0568	38.0002	694.7916	38.3301
671.4744	37.6745	683.2092	38.0045	694.944	38.3344
671.6268	37.6788	683.3616	38.0088	695.0964	38.3387
671.7792	37.6831	683.514	38.013	695.2488	38.343
671.9316	37.6874	683.6664	38.0173	695.4012	38.3473
672.084	37.6917	683.8188	38.0216	695.5536	38.3516
672.2364	37.696	683.9712	38.0259	695.706	38.3559
672.3888	37.7002	684.1236	38.0302	695.8584	38.3601
672.5412	37.7045	684.276	38.0345	696.0108	38.3644
672.6936	37.7088	684.4284	38.0388	696.1632	38.3687
672.846	37.7131	684.5808	38.043	696.3156	38.373

696.468	38.3773	708.2028	38.7072	719.9376	39.0372
696.6204	38.3816	708.3552	38.7115	720.09	39.0415
696.7728	38.3858	708.5076	38.7158	720.2424	39.0457
696.9252	38.3901	708.66	38.7201	720.3948	39.05
697.0776	38.3944	708.8124	38.7244	720.5472	39.0543
697.23	38.3987	708.9648	38.7286	720.6996	39.0586
697.3824	38.403	709.1172	38.7329	720.852	39.0629
697.5348	38.4073	709.2696	38.7372	721.0044	39.0672
697.6872	38.4116	709.422	38.7415	721.1568	39.0714
697.8396	38.4158	709.5744	38.7458	721.3092	39.0757
697.992	38.4201	709.7268	38.7501	721.4616	39.08
698.1444	38.4244	709.8792	38.7544	721.614	39.0843
698.2968	38.4287	710.0316	38.7586	721.7664	39.0886
698.4492	38.433	710.184	38.7629	721.9188	39.0929
698.6016	38.4373	710.3364	38.7672	722.0712	39.0972
698.754	38.4416	710.4888	38.7715	722.2236	39.1014
698.9064	38.4458	710.6412	38.7758	722.376	39.1057
699.0588	38.4501	710.7936	38.7801	722.5284	39.11
699.2112	38.4544	710.946	38.7844	722.6808	39.1143
699.3636	38.4587	711.0984	38.7886	722.8332	39.1186
699.516	38.463	711.2508	38.7929	722.9856	39.1229
699.6684	38.4673	711.4032	38.7972	723.138	39.1272
699.8208	38.4715	711.5556	38.8015	723.2904	39.1314
699.9732	38.4758	711.708	38.8058	723.4428	39.1357
700.1256	38.4801	711.8604	38.8101	723.5952	39.14
700.278	38.4844	712.0128	38.8143	723.7476	39.1443
700.4304	38.4887	712.1652	38.8186	723.9	39.1486
700.5828	38.493	712.3176	38.8229	724.0524	39.1529
700.7352	38.4973	712.47	38.8272	724.2048	39.1572
700.8876	38.5015	712.6224	38.8315	724.3572	39.1614
701.04	38.5058	712.7748	38.8358	724.5096	39.1657
701.1924	38.5101	712.9272	38.8401	724.662	39.17
701.3448	38.5144	713.0796	38.8443	724.8144	39.1743
701.4972	38.5187	713.232	38.8486	724.9668	39.1786
701.6496	38.523	713.3844	38.8529	725.1192	39.1829
701.802	38.5273	713.5368	38.8572	725.2716	39.1871
701.9544	38.5315	713.6892	38.8615	725.424	39.1914
702.1068	38.5358	713.8416	38.8658	725.5764	39.1957
702.2592	38.5401	713.994	38.8701	725.7288	39.2
702.4116	38.5444	714.1464	38.8743	725.8812	39.2043
702.564	38.5487	714.2988	38.8786	726.0336	39.2086
702.7164	38.553	714.4512	38.8829	726.186	39.2129
702.8688	38.5572	714.6036	38.8872	726.3384	39.2171
703.0212	38.5615	714.756	38.8915	726.4908	39.2214
703.1736	38.5658	714.9084	38.8958	726.6432	39.2257
703.326	38.5701	715.0608	38.9	726.7956	39.23
703.4784	38.5744	715.2132	38.9043	726.948	39.2343
703.6308	38.5787	715.3656	38.9086	727.1004	39.2386
703.7832	38.583	715.518	38.9129	727.2528	39.2429
703.9356	38.5872	715.6704	38.9172	727.4052	39.2471
704.088	38.5915	715.8228	38.9215	727.5576	39.2514
704.2404	38.5958	715.9752	38.9258	727.71	39.2557
704.3928	38.6001	716.1276	38.93	727.8624	39.26
704.5452	38.6044	716.28	38.9343	728.0148	39.2643
704.6976	38.6087	716.4324	38.9386	728.1672	39.2686
704.85	38.613	716.5848	38.9429	728.3196	39.2728
705.0024	38.6172	716.7372	38.9472	728.472	39.2771
705.1548	38.6215	716.8896	38.9515	728.6244	39.2814
705.3072	38.6258	717.042	38.9558	728.7768	39.2857
705.4596	38.6301	717.1944	38.96	728.9292	39.29
705.612	38.6344	717.3468	38.9643	729.0816	39.2943
705.7644	38.6387	717.4992	38.9686	729.234	39.2986
705.9168	38.6429	717.6516	38.9729	729.3864	39.3028
706.0692	38.6472	717.804	38.9772	729.5388	39.3071
706.2216	38.6515	717.9564	38.9815	729.6912	39.3114
706.374	38.6558	718.1088	38.9857	729.8436	39.3157
706.5264	38.6601	718.2612	38.99	729.996	39.32
706.6788	38.6644	718.4136	38.9943	730.1484	39.3243
706.8312	38.6687	718.566	38.9986	730.3008	39.3286
706.9836	38.6729	718.7184	39.0029	730.4532	39.3328
707.136	38.6772	718.8708	39.0072	730.6056	39.3371
707.2884	38.6815	719.0232	39.0115	730.758	39.3414
707.4408	38.6858	719.1756	39.0157	730.9104	39.3457
707.5932	38.6901	719.328	39.02	731.0628	39.35
707.7456	38.6944	719.4804	39.0243	731.2152	39.3543
707.898	38.6987	719.6328	39.0286	731.3676	39.3586
708.0504	38.7029	719.7852	39.0329	731.52	39.3628

731.6724	39.3671	743.4072	39.6971	755.142	40.027
731.8248	39.3714	743.5596	39.7014	755.2944	40.0313
731.9772	39.3757	743.712	39.7056	755.4468	40.0356
732.1296	39.38	743.8644	39.7099	755.5992	40.0399
732.282	39.3843	744.0168	39.7142	755.7516	40.0442
732.4344	39.3885	744.1692	39.7185	755.904	40.0484
732.5868	39.3928	744.3216	39.7228	756.0564	40.0527
732.7392	39.3971	744.474	39.7271	756.2088	40.057
732.8916	39.4014	744.6264	39.7313	756.3612	40.0613
733.044	39.4057	744.7788	39.7356	756.5136	40.0656
733.1964	39.41	744.9312	39.7399	756.666	40.0699
733.3488	39.4143	745.0836	39.7442	756.8184	40.0742
733.5012	39.4185	745.236	39.7485	756.9708	40.0784
733.6536	39.4228	745.3884	39.7528	757.1232	40.0827
733.806	39.4271	745.5408	39.7571	757.2756	40.087
733.9584	39.4314	745.6932	39.7613	757.428	40.0913
734.1108	39.4357	745.8456	39.7656	757.5804	40.0956
734.2632	39.44	745.998	39.7699	757.7328	40.0999
734.4156	39.4442	746.1504	39.7742	757.8852	40.1041
734.568	39.4485	746.3028	39.7785	758.0376	40.1084
734.7204	39.4528	746.4552	39.7828	758.19	40.1127
734.8728	39.4571	746.6076	39.7871	758.3424	40.117
735.0252	39.4614	746.76	39.7913	758.4948	40.1213
735.1776	39.4657	746.9124	39.7956	758.6472	40.1256
735.33	39.47	747.0648	39.7999	758.7996	40.1299
735.4824	39.4742	747.2172	39.8042	758.952	40.1341
735.6348	39.4785	747.3696	39.8085	759.1044	40.1384
735.7872	39.4828	747.522	39.8128	759.2568	40.1427
735.9396	39.4871	747.6744	39.817	759.4092	40.147
736.092	39.4914	747.8268	39.8213	759.5616	40.1513
736.2444	39.4957	747.9792	39.8256	759.714	40.1556
736.3968	39.5	748.1316	39.8299	759.8664	40.1599
736.5492	39.5042	748.284	39.8342	760.0188	40.1641
736.7016	39.5085	748.4364	39.8385	760.1712	40.1684
736.854	39.5128	748.5888	39.8428	760.3236	40.1727
737.0064	39.5171	748.7412	39.847	760.476	40.177
737.1588	39.5214	748.8936	39.8513	760.6284	40.1813
737.3112	39.5257	749.046	39.8556	760.7808	40.1856
737.4636	39.53	749.1984	39.8599	760.9332	40.1898
737.616	39.5342	749.3508	39.8642	761.0856	40.1941
737.7684	39.5385	749.5032	39.8685	761.238	40.1984
737.9208	39.5428	749.6556	39.8727	761.3904	40.2027
738.0732	39.5471	749.808	39.877	761.5428	40.207
738.2256	39.5514	749.9604	39.8813	761.6952	40.2113
738.378	39.5557	750.1128	39.8856	761.8476	40.2156
738.5304	39.5599	750.2652	39.8899	762	40.2198
738.6828	39.5642	750.4176	39.8942	762.1524	40.2241
738.8352	39.5685	750.57	39.8985	762.3048	40.2284
738.9876	39.5728	750.7224	39.9027	762.4572	40.2327
739.14	39.5771	750.8748	39.907	762.6096	40.237
739.2924	39.5814	751.0272	39.9113	762.762	40.2413
739.4448	39.5857	751.1796	39.9156	762.9144	40.2456
739.5972	39.5899	751.332	39.9199	763.0668	40.2498
739.7496	39.5942	751.4844	39.9242	763.2192	40.2541
739.902	39.5985	751.6368	39.9285	763.3716	40.2584
740.0544	39.6028	751.7892	39.9327	763.524	40.2627
740.2068	39.6071	751.9416	39.937	763.6764	40.267
740.3592	39.6114	752.094	39.9413	763.8288	40.2713
740.5116	39.6157	752.2464	39.9456	763.9812	40.2755
740.664	39.6199	752.3988	39.9499	764.1336	40.2798
740.8164	39.6242	752.5512	39.9542	764.286	40.2841
740.9688	39.6285	752.7036	39.9585	764.4384	40.2884
741.1212	39.6328	752.856	39.9627	764.5908	40.2927
741.2736	39.6371	753.0084	39.967	764.7432	40.297
741.426	39.6414	753.1608	39.9713	764.8956	40.3013
741.5784	39.6456	753.3132	39.9756	765.048	40.3055
741.7308	39.6499	753.4656	39.9799	765.2004	40.3098
741.8832	39.6542	753.618	39.9842	765.3528	40.3141
742.0356	39.6585	753.7704	39.9884	765.5052	40.3184
742.188	39.6628	753.9228	39.9927	765.6576	40.3227
742.3404	39.6671	754.0752	39.997	765.81	40.327
742.4928	39.6714	754.2276	40.0013	765.9624	40.3313
742.6452	39.6756	754.38	40.0056	766.1148	40.3355
742.7976	39.6799	754.5324	40.0099	766.2672	40.3398
742.95	39.6842	754.6848	40.0142	766.4196	40.3441
743.1024	39.6885	754.8372	40.0184	766.572	40.3484
743.2548	39.6928	754.9896	40.0227	766.7244	40.3527

766.8768	40.357	778.6116	40.6869	790.3464	41.0169
767.0292	40.3612	778.764	40.6912	790.4988	41.0211
767.1816	40.3655	778.9164	40.6955	790.6512	41.0254
767.334	40.3698	779.0688	40.6998	790.8036	41.0297
767.4864	40.3741	779.2212	40.704	790.956	41.034
767.6388	40.3784	779.3736	40.7083	791.1084	41.0383
767.7912	40.3827	779.526	40.7126	791.2608	41.0426
767.9436	40.387	779.6784	40.7169	791.4132	41.0469
768.096	40.3912	779.8308	40.7212	791.5656	41.0511
768.2484	40.3955	779.9832	40.7255	791.718	41.0554
768.4008	40.3998	780.1356	40.7298	791.8704	41.0597
768.5532	40.4041	780.288	40.734	792.0228	41.064
768.7056	40.4084	780.4404	40.7383	792.1752	41.0683
768.858	40.4127	780.5928	40.7426	792.3276	41.0726
769.0104	40.417	780.7452	40.7469	792.48	41.0768
769.1628	40.4212	780.8976	40.7512	792.6324	41.0811
769.3152	40.4255	781.05	40.7555	792.7848	41.0854
769.4676	40.4298	781.2024	40.7598	792.9372	41.0897
769.62	40.4341	781.3548	40.764	793.0896	41.094
769.7724	40.4384	781.5072	40.7683	793.242	41.0983
769.9248	40.4427	781.6596	40.7726	793.3944	41.1026
770.0772	40.4469	781.812	40.7769	793.5468	41.1068
770.2296	40.4512	781.9644	40.7812	793.6992	41.1111
770.382	40.4555	782.1168	40.7855	793.8516	41.1154
770.5344	40.4598	782.2692	40.7897	794.004	41.1197
770.6868	40.4641	782.4216	40.794	794.1564	41.124
770.8392	40.4684	782.574	40.7983	794.3088	41.1283
770.9916	40.4727	782.7264	40.8026	794.4612	41.1326
771.144	40.4769	782.8788	40.8069	794.6136	41.1368
771.2964	40.4812	783.0312	40.8112	794.766	41.1411
771.4488	40.4855	783.1836	40.8155	794.9184	41.1454
771.6012	40.4898	783.336	40.8197	795.0708	41.1497
771.7536	40.4941	783.4884	40.824	795.2232	41.154
771.906	40.4984	783.6408	40.8283	795.3756	41.1583
772.0584	40.5027	783.7932	40.8326	795.528	41.1625
772.2108	40.5069	783.9456	40.8369	795.6804	41.1668
772.3632	40.5112	784.098	40.8412	795.8328	41.1711
772.5156	40.5155	784.2504	40.8455	795.9852	41.1754
772.668	40.5198	784.4028	40.8497	796.1376	41.1797
772.8204	40.5241	784.5552	40.854	796.29	41.184
772.9728	40.5284	784.7076	40.8583	796.4424	41.1883
773.1252	40.5326	784.86	40.8626	796.5948	41.1925
773.2776	40.5369	785.0124	40.8669	796.7472	41.1968
773.43	40.5412	785.1648	40.8712	796.8996	41.2011
773.5824	40.5455	785.3172	40.8755	797.052	41.2054
773.7348	40.5498	785.4696	40.8797	797.2044	41.2097
773.8872	40.5541	785.622	40.884	797.3568	41.214
774.0396	40.5584	785.7744	40.8883	797.5092	41.2183
774.192	40.5626	785.9268	40.8926	797.6616	41.2225
774.3444	40.5669	786.0792	40.8969	797.814	41.2268
774.4968	40.5712	786.2316	40.9012	797.9664	41.2311
774.6492	40.5755	786.384	40.9054	798.1188	41.2354
774.8016	40.5798	786.5364	40.9097	798.2712	41.2397
774.954	40.5841	786.6888	40.914	798.4236	41.244
775.1064	40.5884	786.8412	40.9183	798.576	41.2482
775.2588	40.5926	786.9936	40.9226	798.7284	41.2525
775.4112	40.5969	787.146	40.9269	798.8808	41.2568
775.5636	40.6012	787.2984	40.9312	799.0332	41.2611
775.716	40.6055	787.4508	40.9354	799.1856	41.2654
775.8684	40.6098	787.6032	40.9397	799.338	41.2697
776.0208	40.6141	787.7556	40.944	799.4904	41.274
776.1732	40.6183	787.908	40.9483	799.6428	41.2782
776.3256	40.6226	788.0604	40.9526	799.7952	41.2825
776.478	40.6269	788.2128	40.9569	799.9476	41.2868
776.6304	40.6312	788.3652	40.9612	800.1	41.2911
776.7828	40.6355	788.5176	40.9654	800.2524	41.2954
776.9352	40.6398	788.67	40.9697	800.4048	41.2997
777.0876	40.6441	788.8224	40.974	800.5572	41.304
777.24	40.6483	788.9748	40.9783	800.7096	41.3082
777.3924	40.6526	789.1272	40.9826	800.862	41.3125
777.5448	40.6569	789.2796	40.9869	801.0144	41.3168
777.6972	40.6612	789.432	40.9911	801.1668	41.3211
777.8496	40.6655	789.5844	40.9954	801.3192	41.3254
778.002	40.6698	789.7368	40.9997	801.4716	41.3297
778.1544	40.6741	789.8892	41.004	801.624	41.334
778.3068	40.6783	790.0416	41.0083	801.7764	41.3382
778.4592	40.6826	790.194	41.0126	801.9288	41.3425

802.0812	41.3468	813.816	41.6768	825.5508	42.0067
802.2336	41.3511	813.9684	41.681	825.7032	42.011
802.386	41.3554	814.1208	41.6853	825.8556	42.0153
802.5384	41.3597	814.2732	41.6896	826.008	42.0196
802.6908	41.3639	814.4256	41.6939	826.1604	42.0238
802.8432	41.3682	814.578	41.6982	826.3128	42.0281
802.9956	41.3725	814.7304	41.7025	826.4652	42.0324
803.148	41.3768	814.8828	41.7067	826.6176	42.0367
803.3004	41.3811	815.0352	41.711	826.77	42.041
803.4528	41.3854	815.1876	41.7153	826.9224	42.0453
803.6052	41.3897	815.34	41.7196	827.0748	42.0496
803.7576	41.3939	815.4924	41.7239	827.2272	42.0538
803.91	41.3982	815.6448	41.7282	827.3796	42.0581
804.0624	41.4025	815.7972	41.7325	827.532	42.0624
804.2148	41.4068	815.9496	41.7367	827.6844	42.0667
804.3672	41.4111	816.102	41.741	827.8368	42.071
804.5196	41.4154	816.2544	41.7453	827.9892	42.0753
804.672	41.4197	816.4068	41.7496	828.1416	42.0795
804.8244	41.4239	816.5592	41.7539	828.294	42.0838
804.9768	41.4282	816.7116	41.7582	828.4464	42.0881
805.1292	41.4325	816.864	41.7625	828.5988	42.0924
805.2816	41.4368	817.0164	41.7667	828.7512	42.0967
805.434	41.4411	817.1688	41.771	828.9036	42.101
805.5864	41.4454	817.3212	41.7753	829.056	42.1053
805.7388	41.4496	817.4736	41.7796	829.2084	42.1095
805.8912	41.4539	817.626	41.7839	829.3608	42.1138
806.0436	41.4582	817.7784	41.7882	829.5132	42.1181
806.196	41.4625	817.9308	41.7924	829.6656	42.1224
806.3484	41.4668	818.0832	41.7967	829.818	42.1267
806.5008	41.4711	818.2356	41.801	829.9704	42.131
806.6532	41.4754	818.388	41.8053	830.1228	42.1353
806.8056	41.4796	818.5404	41.8096	830.2752	42.1395
806.958	41.4839	818.6928	41.8139	830.4276	42.1438
807.1104	41.4882	818.8452	41.8182	830.58	42.1481
807.2628	41.4925	818.9976	41.8224	830.7324	42.1524
807.4152	41.4968	819.15	41.8267	830.8848	42.1567
807.5676	41.5011	819.3024	41.831	831.0372	42.161
807.72	41.5053	819.4548	41.8353	831.1896	42.1652
807.8724	41.5096	819.6072	41.8396	831.342	42.1695
808.0248	41.5139	819.7596	41.8439	831.4944	42.1738
808.1772	41.5182	819.912	41.8482	831.6468	42.1781
808.3296	41.5225	820.0644	41.8524	831.7992	42.1824
808.482	41.5268	820.2168	41.8567	831.9516	42.1867
808.6344	41.5311	820.3692	41.861	832.104	42.191
808.7868	41.5353	820.5216	41.8653	832.2564	42.1952
808.9392	41.5396	820.674	41.8696	832.4088	42.1995
809.0916	41.5439	820.8264	41.8739	832.5612	42.2038
809.244	41.5482	820.9788	41.8782	832.7136	42.2081
809.3964	41.5525	821.1312	41.8824	832.866	42.2124
809.5488	41.5568	821.2836	41.8867	833.0184	42.2167
809.7012	41.5611	821.436	41.891	833.1708	42.221
809.8536	41.5653	821.5884	41.8953	833.3232	42.2252
810.006	41.5696	821.7408	41.8996	833.4756	42.2295
810.1584	41.5739	821.8932	41.9039	833.628	42.2338
810.3108	41.5782	822.0456	41.9081	833.7804	42.2381
810.4632	41.5825	822.198	41.9124	833.9328	42.2424
810.6156	41.5868	822.3504	41.9167	834.0852	42.2467
810.768	41.5911	822.5028	41.921	834.2376	42.2509
810.9204	41.5953	822.6552	41.9253	834.39	42.2552
811.0728	41.5996	822.8076	41.9296	834.5424	42.2595
811.2252	41.6039	822.96	41.9339	834.6948	42.2638
811.3776	41.6082	823.1124	41.9381	834.8472	42.2681
811.53	41.6125	823.2648	41.9424	834.9996	42.2724
811.6824	41.6168	823.4172	41.9467	835.152	42.2767
811.8348	41.621	823.5696	41.951	835.3044	42.2809
811.9872	41.6253	823.722	41.9553	835.4568	42.2852
812.1396	41.6296	823.8744	41.9596	835.6092	42.2895
812.292	41.6339	824.0268	41.9639	835.7616	42.2938
812.4444	41.6382	824.1792	41.9681	835.914	42.2981
812.5968	41.6425	824.3316	41.9724	836.0664	42.3024
812.7492	41.6468	824.484	41.9767	836.2188	42.3067
812.9016	41.651	824.6364	41.981	836.3712	42.3109
813.054	41.6553	824.7888	41.9853	836.5236	42.3152
813.2064	41.6596	824.9412	41.9896	836.676	42.3195
813.3588	41.6639	825.0936	41.9938	836.8284	42.3238
813.5112	41.6682	825.246	41.9981	836.9808	42.3281
813.6636	41.6725	825.3984	42.0024	837.1332	42.3324

837.2856	42.3366	849.0204	42.6666	860.7552	42.9965
837.438	42.3409	849.1728	42.6709	860.9076	43.0008
837.5904	42.3452	849.3252	42.6752	861.06	43.0051
837.7428	42.3495	849.4776	42.6795	861.2124	43.0094
837.8952	42.3538	849.63	42.6837	861.3648	43.0137
838.0476	42.3581	849.7824	42.688	861.5172	43.018
838.2	42.3624	849.9348	42.6923	861.6696	43.0223
838.3524	42.3666	850.0872	42.6966	861.822	43.0265
838.5048	42.3709	850.2396	42.7009	861.9744	43.0308
838.6572	42.3752	850.392	42.7052	862.1268	43.0351
838.8096	42.3795	850.5444	42.7094	862.2792	43.0394
838.962	42.3838	850.6968	42.7137	862.4316	43.0437
839.1144	42.3881	850.8492	42.718	862.584	43.048
839.2668	42.3924	851.0016	42.7223	862.7364	43.0522
839.4192	42.3966	851.154	42.7266	862.8888	43.0565
839.5716	42.4009	851.3064	42.7309	863.0412	43.0608
839.724	42.4052	851.4588	42.7352	863.1936	43.0651
839.8764	42.4095	851.6112	42.7394	863.346	43.0694
840.0288	42.4138	851.7636	42.7437	863.4984	43.0737
840.1812	42.4181	851.916	42.748	863.6508	43.078
840.3336	42.4223	852.0684	42.7523	863.8032	43.0822
840.486	42.4266	852.2208	42.7566	863.9556	43.0865
840.6384	42.4309	852.3732	42.7609	864.108	43.0908
840.7908	42.4352	852.5256	42.7652	864.2604	43.0951
840.9432	42.4395	852.678	42.7694	864.4128	43.0994
841.0956	42.4438	852.8304	42.7737	864.5652	43.1037
841.248	42.4481	852.9828	42.778	864.7176	43.108
841.4004	42.4523	853.1352	42.7823	864.87	43.1122
841.5528	42.4566	853.2876	42.7866	865.0224	43.1165
841.7052	42.4609	853.44	42.7909	865.1748	43.1208
841.8576	42.4652	853.5924	42.7951	865.3272	43.1251
842.01	42.4695	853.7448	42.7994	865.4796	43.1294
842.1624	42.4738	853.8972	42.8037	865.632	43.1337
842.3148	42.4781	854.0496	42.808	865.7844	43.138
842.4672	42.4823	854.202	42.8123	865.9368	43.1422
842.6196	42.4866	854.3544	42.8166	866.0892	43.1465
842.772	42.4909	854.5068	42.8209	866.2416	43.1508
842.9244	42.4952	854.6592	42.8251	866.394	43.1551
843.0768	42.4995	854.8116	42.8294	866.5464	43.1594
843.2292	42.5038	854.964	42.8337	866.6988	43.1637
843.3816	42.508	855.1164	42.838	866.8512	43.1679
843.534	42.5123	855.2688	42.8423	867.0036	43.1722
843.6864	42.5166	855.4212	42.8466	867.156	43.1765
843.8388	42.5209	855.5736	42.8509	867.3084	43.1808
843.9912	42.5252	855.726	42.8551	867.4608	43.1851
844.1436	42.5295	855.8784	42.8594	867.6132	43.1894
844.296	42.5338	856.0308	42.8637	867.7656	43.1937
844.4484	42.538	856.1832	42.868	867.918	43.1979
844.6008	42.5423	856.3356	42.8723	868.0704	43.2022
844.7532	42.5466	856.488	42.8766	868.2228	43.2065
844.9056	42.5509	856.6404	42.8808	868.3752	43.2108
845.058	42.5552	856.7928	42.8851	868.5276	43.2151
845.2104	42.5595	856.9452	42.8894	868.68	43.2194
845.3628	42.5638	857.0976	42.8937	868.8324	43.2237
845.5152	42.568	857.25	42.898	868.9848	43.2279
845.6676	42.5723	857.4024	42.9023	869.1372	43.2322
845.82	42.5766	857.5548	42.9066	869.2896	43.2365
845.9724	42.5809	857.7072	42.9108	869.442	43.2408
846.1248	42.5852	857.8596	42.9151	869.5944	43.2451
846.2772	42.5895	858.012	42.9194	869.7468	43.2494
846.4296	42.5938	858.1644	42.9237	869.8992	43.2536
846.582	42.598	858.3168	42.928	870.0516	43.2579
846.7344	42.6023	858.4692	42.9323	870.204	43.2622
846.8868	42.6066	858.6216	42.9366	870.3564	43.2665
847.0392	42.6109	858.774	42.9408	870.5088	43.2708
847.1916	42.6152	858.9264	42.9451	870.6612	43.2751
847.344	42.6195	859.0788	42.9494	870.8136	43.2794
847.4964	42.6237	859.2312	42.9537	870.966	43.2836
847.6488	42.628	859.3836	42.958	871.1184	43.2879
847.8012	42.6323	859.536	42.9623	871.2708	43.2922
847.9536	42.6366	859.6884	42.9665	871.4232	43.2965
848.106	42.6409	859.8408	42.9708	871.5756	43.3008
848.2584	42.6452	859.9932	42.9751	871.728	43.3051
848.4108	42.6495	860.1456	42.9794	871.8804	43.3093
848.5632	42.6537	860.298	42.9837	872.0328	43.3136
848.7156	42.658	860.4504	42.988	872.1852	43.3179
848.868	42.6623	860.6028	42.9923	872.3376	43.3222

872.49	43.3265	884.2248	43.6564	895.9596	43.9864
872.6424	43.3308	884.3772	43.6607	896.112	43.9907
872.7948	43.3351	884.5296	43.665	896.2644	43.995
872.9472	43.3393	884.682	43.6693	896.4168	43.9992
873.0996	43.3436	884.8344	43.6736	896.5692	44.0035
873.252	43.3479	884.9868	43.6779	896.7216	44.0078
873.4044	43.3522	885.1392	43.6822	896.874	44.0121
873.5568	43.3565	885.2916	43.6864	897.0264	44.0164
873.7092	43.3608	885.444	43.6907	897.1788	44.0207
873.8616	43.3651	885.5964	43.695	897.3312	44.025
874.014	43.3693	885.7488	43.6993	897.4836	44.0292
874.1664	43.3736	885.9012	43.7036	897.636	44.0335
874.3188	43.3779	886.0536	43.7079	897.7884	44.0378
874.4712	43.3822	886.206	43.7121	897.9408	44.0421
874.6236	43.3865	886.3584	43.7164	898.0932	44.0464
874.776	43.3908	886.5108	43.7207	898.2456	44.0507
874.9284	43.3951	886.6632	43.725	898.398	44.0549
875.0808	43.3993	886.8156	43.7293	898.5504	44.0592
875.2332	43.4036	886.968	43.7336	898.7028	44.0635
875.3856	43.4079	887.1204	43.7379	898.8552	44.0678
875.538	43.4122	887.2728	43.7421	899.0076	44.0721
875.6904	43.4165	887.4252	43.7464	899.16	44.0764
875.8428	43.4208	887.5776	43.7507	899.3124	44.0807
875.9952	43.425	887.73	43.755	899.4648	44.0849
876.1476	43.4293	887.8824	43.7593	899.6172	44.0892
876.3	43.4336	888.0348	43.7636	899.7696	44.0935
876.4524	43.4379	888.1872	43.7679	899.922	44.0978
876.6048	43.4422	888.3396	43.7721	900.0744	44.1021
876.7572	43.4465	888.492	43.7764	900.2268	44.1064
876.9096	43.4508	888.6444	43.7807	900.3792	44.1107
877.062	43.455	888.7968	43.785	900.5316	44.1149
877.2144	43.4593	888.9492	43.7893	900.684	44.1192
877.3668	43.4636	889.1016	43.7936	900.8364	44.1235
877.5192	43.4679	889.254	43.7978	900.9888	44.1278
877.6716	43.4722	889.4064	43.8021	901.1412	44.1321
877.824	43.4765	889.5588	43.8064	901.2936	44.1364
877.9764	43.4808	889.7112	43.8107	901.446	44.1406
878.1288	43.485	889.8636	43.815	901.5984	44.1449
878.2812	43.4893	890.016	43.8193	901.7508	44.1492
878.4336	43.4936	890.1684	43.8236	901.9032	44.1535
878.586	43.4979	890.3208	43.8278	902.0556	44.1578
878.7384	43.5022	890.4732	43.8321	902.208	44.1621
878.8908	43.5065	890.6256	43.8364	902.3604	44.1664
879.0432	43.5107	890.778	43.8407	902.5128	44.1706
879.1956	43.515	890.9304	43.845	902.6652	44.1749
879.348	43.5193	891.0828	43.8493	902.8176	44.1792
879.5004	43.5236	891.2352	43.8536	902.97	44.1835
879.6528	43.5279	891.3876	43.8578	903.1224	44.1878
879.8052	43.5322	891.54	43.8621	903.2748	44.1921
879.9576	43.5365	891.6924	43.8664	903.4272	44.1964
880.11	43.5407	891.8448	43.8707	903.5796	44.2006
880.2624	43.545	891.9972	43.875	903.732	44.2049
880.4148	43.5493	892.1496	43.8793	903.8844	44.2092
880.5672	43.5536	892.302	43.8835	904.0368	44.2135
880.7196	43.5579	892.4544	43.8878	904.1892	44.2178
880.872	43.5622	892.6068	43.8921	904.3416	44.2221
881.0244	43.5665	892.7592	43.8964	904.494	44.2263
881.1768	43.5707	892.9116	43.9007	904.6464	44.2306
881.3292	43.575	893.064	43.905	904.7988	44.2349
881.4816	43.5793	893.2164	43.9093	904.9512	44.2392
881.634	43.5836	893.3688	43.9135	905.1036	44.2435
881.7864	43.5879	893.5212	43.9178	905.256	44.2478
881.9388	43.5922	893.6736	43.9221	905.4084	44.2521
882.0912	43.5965	893.826	43.9264	905.5608	44.2563
882.2436	43.6007	893.9784	43.9307	905.7132	44.2606
882.396	43.605	894.1308	43.935	905.8656	44.2649
882.5484	43.6093	894.2832	43.9393	906.018	44.2692
882.7008	43.6136	894.4356	43.9435	906.1704	44.2735
882.8532	43.6179	894.588	43.9478	906.3228	44.2778
883.0056	43.6222	894.7404	43.9521	906.4752	44.2821
883.158	43.6264	894.8928	43.9564	906.6276	44.2863
883.3104	43.6307	895.0452	43.9607	906.78	44.2906
883.4628	43.635	895.1976	43.965	906.9324	44.2949
883.6152	43.6393	895.35	43.9692	907.0848	44.2992
883.7676	43.6436	895.5024	43.9735	907.2372	44.3035
883.92	43.6479	895.6548	43.9778	907.3896	44.3078
884.0724	43.6522	895.8072	43.9821	907.542	44.312

907.6944	44.3163	919.4292	44.6463	931.164	44.9762
907.8468	44.3206	919.5816	44.6506	931.3164	44.9805
907.9992	44.3249	919.734	44.6549	931.4688	44.9848
908.1516	44.3292	919.8864	44.6591	931.6212	44.9891
908.304	44.3335	920.0388	44.6634	931.7736	44.9934
908.4564	44.3378	920.1912	44.6677	931.926	44.9977
908.6088	44.342	920.3436	44.672	932.0784	45.0019
908.7612	44.3463	920.496	44.6763	932.2308	45.0062
908.9136	44.3506	920.6484	44.6806	932.3832	45.0105
909.066	44.3549	920.8008	44.6848	932.5356	45.0148
909.2184	44.3592	920.9532	44.6891	932.688	45.0191
909.3708	44.3635	921.1056	44.6934	932.8404	45.0234
909.5232	44.3678	921.258	44.6977	932.9928	45.0276
909.6756	44.372	921.4104	44.702	933.1452	45.0319
909.828	44.3763	921.5628	44.7063	933.2976	45.0362
909.9804	44.3806	921.7152	44.7106	933.45	45.0405
910.1328	44.3849	921.8676	44.7148	933.6024	45.0448
910.2852	44.3892	922.02	44.7191	933.7548	45.0491
910.4376	44.3935	922.1724	44.7234	933.9072	45.0534
910.59	44.3978	922.3248	44.7277	934.0596	45.0576
910.7424	44.402	922.4772	44.732	934.212	45.0619
910.8948	44.4063	922.6296	44.7363	934.3644	45.0662
911.0472	44.4106	922.782	44.7406	934.5168	45.0705
911.1996	44.4149	922.9344	44.7448	934.6692	45.0748
911.352	44.4192	923.0868	44.7491	934.8216	45.0791
911.5044	44.4235	923.2392	44.7534	934.974	45.0834
911.6568	44.4277	923.3916	44.7577	935.1264	45.0876
911.8092	44.432	923.544	44.762	935.2788	45.0919
911.9616	44.4363	923.6964	44.7663	935.4312	45.0962
912.114	44.4406	923.8488	44.7705	935.5836	45.1005
912.2664	44.4449	924.0012	44.7748	935.736	45.1048
912.4188	44.4492	924.1536	44.7791	935.8884	45.1091
912.5712	44.4535	924.306	44.7834	936.0408	45.1133
912.7236	44.4577	924.4584	44.7877	936.1932	45.1176
912.876	44.462	924.6108	44.792	936.3456	45.1219
913.0284	44.4663	924.7632	44.7963	936.498	45.1262
913.1808	44.4706	924.9156	44.8005	936.6504	45.1305
913.3332	44.4749	925.068	44.8048	936.8028	45.1348
913.4856	44.4792	925.2204	44.8091	936.9552	45.1391
913.638	44.4835	925.3728	44.8134	937.1076	45.1433
913.7904	44.4877	925.5252	44.8177	937.26	45.1476
913.9428	44.492	925.6776	44.822	937.4124	45.1519
914.0952	44.4963	925.83	44.8263	937.5648	45.1562
914.2476	44.5006	925.9824	44.8305	937.7172	45.1605
914.4	44.5049	926.1348	44.8348	937.8696	45.1648
914.5524	44.5092	926.2872	44.8391	938.022	45.1691
914.7048	44.5134	926.4396	44.8434	938.1744	45.1733
914.8572	44.5177	926.592	44.8477	938.3268	45.1776
915.0096	44.522	926.7444	44.852	938.4792	45.1819
915.162	44.5263	926.8968	44.8562	938.6316	45.1862
915.3144	44.5306	927.0492	44.8605	938.784	45.1905
915.4668	44.5349	927.2016	44.8648	938.9364	45.1948
915.6192	44.5392	927.354	44.8691	939.0888	45.1991
915.7716	44.5434	927.5064	44.8734	939.2412	45.2033
915.924	44.5477	927.6588	44.8777	939.3936	45.2076
916.0764	44.552	927.8112	44.882	939.546	45.2119
916.2288	44.5563	927.9636	44.8862	939.6984	45.2162
916.3812	44.5606	928.116	44.8905	939.8508	45.2205
916.5336	44.5649	928.2684	44.8948	940.0032	45.2248
916.686	44.5692	928.4208	44.8991	940.1556	45.229
916.8384	44.5734	928.5732	44.9034	940.308	45.2333
916.9908	44.5777	928.7256	44.9077	940.4604	45.2376
917.1432	44.582	928.878	44.912	940.6128	45.2419
917.2956	44.5863	929.0304	44.9162	940.7652	45.2462
917.448	44.5906	929.1828	44.9205	940.9176	45.2505
917.6004	44.5949	929.3352	44.9248	941.07	45.2548
917.7528	44.5991	929.4876	44.9291	941.2224	45.259
917.9052	44.6034	929.64	44.9334	941.3748	45.2633
918.0576	44.6077	929.7924	44.9377	941.5272	45.2676
918.21	44.612	929.9448	44.942	941.6796	45.2719
918.3624	44.6163	930.0972	44.9462	941.832	45.2762
918.5148	44.6206	930.2496	44.9505	941.9844	45.2805
918.6672	44.6249	930.402	44.9548	942.1368	45.2848
918.8196	44.6291	930.5544	44.9591	942.2892	45.289
918.972	44.6334	930.7068	44.9634	942.4416	45.2933
919.1244	44.6377	930.8592	44.9677	942.594	45.2976
919.2768	44.642	931.0116	44.9719	942.7464	45.3019

942.8988	45.3062	954.6336	45.6361	966.3684	45.9661
943.0512	45.3105	954.786	45.6404	966.5208	45.9704
943.2036	45.3148	954.9384	45.6447	966.6732	45.9746
943.356	45.319	955.0908	45.649	966.8256	45.9789
943.5084	45.3233	955.2432	45.6533	966.978	45.9832
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943.8132	45.3319	955.548	45.6618	967.2828	45.9918
943.9656	45.3362	955.7004	45.6661	967.4352	45.9961
944.118	45.3405	955.8528	45.6704	967.5876	46.0004
944.2704	45.3447	956.0052	45.6747	967.74	46.0046
944.4228	45.349	956.1576	45.679	967.8924	46.0089
944.5752	45.3533	956.31	45.6833	968.0448	46.0132
944.7276	45.3576	956.4624	45.6875	968.1972	46.0175
944.88	45.3619	956.6148	45.6918	968.3496	46.0218
945.0324	45.3662	956.7672	45.6961	968.502	46.0261
945.1848	45.3705	956.9196	45.7004	968.6544	46.0303
945.3372	45.3747	957.072	45.7047	968.8068	46.0346
945.4896	45.379	957.2244	45.709	968.9592	46.0389
945.642	45.3833	957.3768	45.7133	969.1116	46.0432
945.7944	45.3876	957.5292	45.7175	969.264	46.0475
945.9468	45.3919	957.6816	45.7218	969.4164	46.0518
946.0992	45.3962	957.834	45.7261	969.5688	46.0561
946.2516	45.4005	957.9864	45.7304	969.7212	46.0603
946.404	45.4047	958.1388	45.7347	969.8736	46.0646
946.5564	45.409	958.2912	45.739	970.026	46.0689
946.7088	45.4133	958.4436	45.7433	970.1784	46.0732
946.8612	45.4176	958.596	45.7475	970.3308	46.0775
947.0136	45.4219	958.7484	45.7518	970.4832	46.0818
947.166	45.4262	958.9008	45.7561	970.6356	46.0861
947.3184	45.4304	959.0532	45.7604	970.788	46.0903
947.4708	45.4347	959.2056	45.7647	970.9404	46.0946
947.6232	45.439	959.358	45.769	971.0928	46.0989
947.7756	45.4433	959.5104	45.7732	971.2452	46.1032
947.928	45.4476	959.6628	45.7775	971.3976	46.1075
948.0804	45.4519	959.8152	45.7818	971.55	46.1118
948.2328	45.4562	959.9676	45.7861	971.7024	46.1161
948.3852	45.4604	960.12	45.7904	971.8548	46.1203
948.5376	45.4647	960.2724	45.7947	972.0072	46.1246
948.69	45.469	960.4248	45.799	972.1596	46.1289
948.8424	45.4733	960.5772	45.8032	972.312	46.1332
948.9948	45.4776	960.7296	45.8075	972.4644	46.1375
949.1472	45.4819	960.882	45.8118	972.6168	46.1418
949.2996	45.4862	961.0344	45.8161	972.7692	46.146
949.452	45.4904	961.1868	45.8204	972.9216	46.1503
949.6044	45.4947	961.3392	45.8247	973.074	46.1546
949.7568	45.499	961.4916	45.829	973.2264	46.1589
949.9092	45.5033	961.644	45.8332	973.3788	46.1632
950.0616	45.5076	961.7964	45.8375	973.5312	46.1675
950.214	45.5119	961.9488	45.8418	973.6836	46.1718
950.3664	45.5161	962.1012	45.8461	973.836	46.176
950.5188	45.5204	962.2536	45.8504	973.9884	46.1803
950.6712	45.5247	962.406	45.8547	974.1408	46.1846
950.8236	45.529	962.5584	45.8589	974.2932	46.1889
950.976	45.5333	962.7108	45.8632	974.4456	46.1932
951.1284	45.5376	962.8632	45.8675	974.598	46.1975
951.2808	45.5419	963.0156	45.8718	974.7504	46.2018
951.4332	45.5461	963.168	45.8761	974.9028	46.206
951.5856	45.5504	963.3204	45.8804	975.0552	46.2103
951.738	45.5547	963.4728	45.8847	975.2076	46.2146
951.8904	45.559	963.6252	45.8889	975.36	46.2189
952.0428	45.5633	963.7776	45.8932	975.5124	46.2232
952.1952	45.5676	963.93	45.8975	975.6648	46.2275
952.3476	45.5719	964.0824	45.9018	975.8172	46.2317
952.5	45.5761	964.2348	45.9061	975.9696	46.236
952.6524	45.5804	964.3872	45.9104	976.122	46.2403
952.8048	45.5847	964.5396	45.9147	976.2744	46.2446
952.9572	45.589	964.692	45.9189	976.4268	46.2489
953.1096	45.5933	964.8444	45.9232	976.5792	46.2532
953.262	45.5976	964.9968	45.9275	976.7316	46.2575
953.4144	45.6018	965.1492	45.9318	976.884	46.2617
953.5668	45.6061	965.3016	45.9361	977.0364	46.266
953.7192	45.6104	965.454	45.9404	977.1888	46.2703
953.8716	45.6147	965.6064	45.9446	977.3412	46.2746
954.024	45.619	965.7588	45.9489	977.4936	46.2789
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979.3224	46.3303	991.0572	46.6602	1002.792	46.9902
979.4748	46.3346	991.2096	46.6645	1002.9444	46.9945
979.6272	46.3389	991.362	46.6688	1003.0968	46.9988
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980.3892	46.3603	992.124	46.6902	1003.8588	47.0202
980.5416	46.3646	992.2764	46.6945	1004.0112	47.0245
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981.1512	46.3817	992.886	46.7117	1004.6208	47.0416
981.3036	46.386	993.0384	46.716	1004.7732	47.0459
981.456	46.3903	993.1908	46.7202	1004.9256	47.0502
981.6084	46.3946	993.3432	46.7245	1005.078	47.0545
981.7608	46.3989	993.4956	46.7288	1005.2304	47.0588
981.9132	46.4031	993.648	46.7331	1005.3828	47.063
982.0656	46.4074	993.8004	46.7374	1005.5352	47.0673
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982.5228	46.4203	994.2576	46.7502	1005.9924	47.0802
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983.4372	46.446	995.172	46.7759	1006.9068	47.1059
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984.0468	46.4631	995.7816	46.7931	1007.5164	47.123
984.1992	46.4674	995.934	46.7974	1007.6688	47.1273
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986.9424	46.5446	998.6772	46.8745	1010.412	47.2045
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987.2472	46.5531	998.982	46.8831	1010.7168	47.213
987.3996	46.5574	999.1344	46.8874	1010.8692	47.2173
987.552	46.5617	999.2868	46.8916	1011.0216	47.2216
987.7044	46.566	999.4392	46.8959	1011.174	47.2259
987.8568	46.5703	999.5916	46.9002	1011.3264	47.2302
988.0092	46.5746	999.744	46.9045	1011.4788	47.2344
988.1616	46.5788	999.8964	46.9088	1011.6312	47.2387
988.314	46.5831	1000.0488	46.9131	1011.7836	47.243
988.4664	46.5874	1000.2012	46.9174	1011.936	47.2473
988.6188	46.5917	1000.3536	46.9216	1012.0884	47.2516
988.7712	46.596	1000.506	46.9259	1012.2408	47.2559
988.9236	46.6003	1000.6584	46.9302	1012.3932	47.2602
989.076	46.6045	1000.8108	46.9345	1012.5456	47.2644
989.2284	46.6088	1000.9632	46.9388	1012.698	47.2687
989.3808	46.6131	1001.1156	46.9431	1012.8504	47.273
989.5332	46.6174	1001.268	46.9473	1013.0028	47.2773
989.6856	46.6217	1001.4204	46.9516	1013.1552	47.2816

1013.3076	47.2859	1025.0424	47.6158	1036.7772	47.9458
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1013.6124	47.2944	1025.3472	47.6244	1037.082	47.9543
1013.7648	47.2987	1025.4996	47.6287	1037.2344	47.9586
1013.9172	47.303	1025.652	47.633	1037.3868	47.9629
1014.0696	47.3073	1025.8044	47.6372	1037.5392	47.9672
1014.222	47.3116	1025.9568	47.6415	1037.6917	47.9715
1014.3744	47.3159	1026.1093	47.6458	1037.844	47.9758
1014.5268	47.3201	1026.2616	47.6501	1037.9965	47.98
1014.6792	47.3244	1026.4139	47.6544	1038.1488	47.9843
1014.8316	47.3287	1026.5664	47.6587	1038.3011	47.9886
1014.984	47.333	1026.7188	47.6629	1038.4536	47.9929
1015.1364	47.3373	1026.8712	47.6672	1038.606	47.9972
1015.2888	47.3416	1027.0236	47.6715	1038.7584	48.0015
1015.4412	47.3459	1027.176	47.6758	1038.9108	48.0058
1015.5936	47.3501	1027.3284	47.6801	1039.0632	48.01
1015.746	47.3544	1027.4808	47.6844	1039.2156	48.0143
1015.8984	47.3587	1027.6332	47.6887	1039.368	48.0186
1016.0508	47.363	1027.7856	47.6929	1039.5204	48.0229
1016.2032	47.3673	1027.938	47.6972	1039.6729	48.0272
1016.3556	47.3716	1028.0905	47.7015	1039.8252	48.0315
1016.508	47.3759	1028.2428	47.7058	1039.9775	48.0357
1016.6604	47.3801	1028.3951	47.7101	1040.13	48.04
1016.8128	47.3844	1028.5476	47.7144	1040.2823	48.0443
1016.9652	47.3887	1028.7	47.7187	1040.4348	48.0486
1017.1176	47.393	1028.8524	47.7229	1040.5872	48.0529
1017.27	47.3973	1029.0048	47.7272	1040.7396	48.0572
1017.4224	47.4016	1029.1572	47.7315	1040.892	48.0615
1017.5748	47.4058	1029.3096	47.7358	1041.0444	48.0657
1017.7272	47.4101	1029.462	47.7401	1041.1968	48.07
1017.8796	47.4144	1029.6144	47.7444	1041.3492	48.0743
1018.032	47.4187	1029.7668	47.7486	1041.5016	48.0786
1018.1844	47.423	1029.9192	47.7529	1041.6541	48.0829
1018.3368	47.4273	1030.0717	47.7572	1041.8064	48.0872
1018.4892	47.4316	1030.224	47.7615	1041.9587	48.0915
1018.6416	47.4358	1030.3763	47.7658	1042.1112	48.0957
1018.794	47.4401	1030.5288	47.7701	1042.2635	48.1
1018.9464	47.4444	1030.6812	47.7744	1042.416	48.1043
1019.0988	47.4487	1030.8336	47.7786	1042.5684	48.1086
1019.2512	47.453	1030.986	47.7829	1042.7208	48.1129
1019.4036	47.4573	1031.1384	47.7872	1042.8732	48.1172
1019.556	47.4616	1031.2908	47.7915	1043.0256	48.1214
1019.7084	47.4658	1031.4432	47.7958	1043.178	48.1257
1019.8608	47.4701	1031.5956	47.8001	1043.3304	48.13
1020.0132	47.4744	1031.748	47.8044	1043.4828	48.1343
1020.1656	47.4787	1031.9004	47.8086	1043.6353	48.1386
1020.318	47.483	1032.0529	47.8129	1043.7876	48.1429
1020.4704	47.4873	1032.2052	47.8172	1043.9399	48.1472
1020.6228	47.4915	1032.3575	47.8215	1044.0924	48.1514
1020.7752	47.4958	1032.51	47.8258	1044.2448	48.1557
1020.9276	47.5001	1032.6624	47.8301	1044.3972	48.16
1021.08	47.5044	1032.8148	47.8344	1044.5496	48.1643
1021.2324	47.5087	1032.9672	47.8386	1044.702	48.1686
1021.3848	47.513	1033.1196	47.8429	1044.8544	48.1729
1021.5372	47.5173	1033.272	47.8472	1045.0068	48.1772
1021.6896	47.5215	1033.4244	47.8515	1045.1592	48.1814
1021.842	47.5258	1033.5768	47.8558	1045.3116	48.1857
1021.9944	47.5301	1033.7292	47.8601	1045.464	48.19
1022.1468	47.5344	1033.8816	47.8643	1045.6165	48.1943
1022.2992	47.5387	1034.0341	47.8686	1045.7688	48.1986
1022.4516	47.543	1034.1864	47.8729	1045.9211	48.2029
1022.604	47.5473	1034.3387	47.8772	1046.0736	48.2071
1022.7564	47.5515	1034.4912	47.8815	1046.226	48.2114
1022.9088	47.5558	1034.6436	47.8858	1046.3784	48.2157
1023.0612	47.5601	1034.796	47.8901	1046.5308	48.22
1023.2136	47.5644	1034.9484	47.8943	1046.6832	48.2243
1023.366	47.5687	1035.1008	47.8986	1046.8356	48.2286
1023.5184	47.573	1035.2532	47.9029	1046.988	48.2329
1023.6708	47.5772	1035.4056	47.9072	1047.1404	48.2371
1023.8232	47.5815	1035.558	47.9115	1047.2928	48.2414
1023.9756	47.5858	1035.7104	47.9158	1047.4452	48.2457
1024.1281	47.5901	1035.8628	47.9201	1047.5977	48.25
1024.2804	47.5944	1036.0153	47.9243	1047.75	48.2543
1024.4327	47.5987	1036.1676	47.9286	1047.9023	48.2586
1024.5852	47.603	1036.3199	47.9329	1048.0548	48.2629
1024.7375	47.6072	1036.4724	47.9372	1048.2072	48.2671
1024.89	47.6115	1036.6248	47.9415	1048.3596	48.2714

1048.512	48.2757	1060.2468	48.6057	1071.9816	48.9356
1048.6644	48.28	1060.3992	48.6099	1072.134	48.9399
1048.8168	48.2843	1060.5516	48.6142	1072.2864	48.9442
1048.9692	48.2886	1060.704	48.6185	1072.4388	48.9485
1049.1216	48.2928	1060.8564	48.6228	1072.5912	48.9527
1049.274	48.2971	1061.0088	48.6271	1072.7437	48.957
1049.4264	48.3014	1061.1613	48.6314	1072.896	48.9613
1049.5789	48.3057	1061.3136	48.6357	1073.0483	48.9656
1049.7312	48.31	1061.4659	48.6399	1073.2008	48.9699
1049.8835	48.3143	1061.6184	48.6442	1073.3531	48.9742
1050.036	48.3186	1061.7708	48.6485	1073.5056	48.9785
1050.1884	48.3228	1061.9232	48.6528	1073.658	48.9827
1050.3408	48.3271	1062.0756	48.6571	1073.8104	48.987
1050.4932	48.3314	1062.228	48.6614	1073.9628	48.9913
1050.6456	48.3357	1062.3804	48.6656	1074.1152	48.9956
1050.798	48.34	1062.5328	48.6699	1074.2676	48.9999
1050.9504	48.3443	1062.6852	48.6742	1074.42	49.0042
1051.1028	48.3486	1062.8376	48.6785	1074.5724	49.0084
1051.2552	48.3528	1062.99	48.6828	1074.7249	49.0127
1051.4076	48.3571	1063.1425	48.6871	1074.8772	49.017
1051.5601	48.3614	1063.2948	48.6914	1075.0295	49.0213
1051.7124	48.3657	1063.4471	48.6956	1075.182	49.0256
1051.8647	48.37	1063.5996	48.6999	1075.3344	49.0299
1052.0172	48.3743	1063.752	48.7042	1075.4868	49.0342
1052.1696	48.3785	1063.9044	48.7085	1075.6392	49.0384
1052.322	48.3828	1064.0568	48.7128	1075.7916	49.0427
1052.4744	48.3871	1064.2092	48.7171	1075.944	49.047
1052.6268	48.3914	1064.3616	48.7214	1076.0964	49.0513
1052.7792	48.3957	1064.514	48.7256	1076.2488	49.0556
1052.9316	48.4	1064.6664	48.7299	1076.4012	49.0599
1053.084	48.4043	1064.8188	48.7342	1076.5536	49.0642
1053.2365	48.4085	1064.9712	48.7385	1076.7061	49.0684
1053.3888	48.4128	1065.1237	48.7428	1076.8584	49.0727
1053.5413	48.4171	1065.276	48.7471	1077.0107	49.077
1053.6936	48.4214	1065.4283	48.7513	1077.1632	49.0813
1053.8459	48.4257	1065.5808	48.7556	1077.3156	49.0856
1053.9984	48.43	1065.7332	48.7599	1077.468	49.0899
1054.1508	48.4343	1065.8856	48.7642	1077.6204	49.0942
1054.3032	48.4385	1066.038	48.7685	1077.7728	49.0984
1054.4556	48.4428	1066.1904	48.7728	1077.9252	49.1027
1054.608	48.4471	1066.3428	48.7771	1078.0776	49.107
1054.7604	48.4514	1066.4952	48.7813	1078.23	49.1113
1054.9128	48.4557	1066.6476	48.7856	1078.3824	49.1156
1055.0652	48.46	1066.8	48.7899	1078.5348	49.1199
1055.2177	48.4643	1066.9524	48.7942	1078.6873	49.1241
1055.37	48.4685	1067.1049	48.7985	1078.8396	49.1284
1055.5225	48.4728	1067.2572	48.8028	1078.9919	49.1327
1055.6748	48.4771	1067.4095	48.8071	1079.1444	49.137
1055.8271	48.4814	1067.562	48.8113	1079.2968	49.1413
1055.9796	48.4857	1067.7144	48.8156	1079.4492	49.1456
1056.132	48.49	1067.8668	48.8199	1079.6016	49.1499
1056.2844	48.4942	1068.0192	48.8242	1079.754	49.1541
1056.4368	48.4985	1068.1716	48.8285	1079.9064	49.1584
1056.5892	48.5028	1068.324	48.8328	1080.0588	49.1627
1056.7416	48.5071	1068.4764	48.8371	1080.2112	49.167
1056.894	48.5114	1068.6288	48.8413	1080.3636	49.1713
1057.0464	48.5157	1068.7813	48.8456	1080.516	49.1756
1057.1989	48.52	1068.9336	48.8499	1080.6685	49.1799
1057.3512	48.5242	1069.0861	48.8542	1080.8208	49.1841
1057.5035	48.5285	1069.2384	48.8585	1080.9731	49.1884
1057.656	48.5328	1069.3907	48.8628	1081.1256	49.1927
1057.8083	48.5371	1069.5432	48.867	1081.278	49.197
1057.9608	48.5414	1069.6956	48.8713	1081.4304	49.2013
1058.1132	48.5457	1069.848	48.8756	1081.5828	49.2056
1058.2656	48.5499	1070.0004	48.8799	1081.7352	49.2098
1058.418	48.5542	1070.1528	48.8842	1081.8876	49.2141
1058.5704	48.5585	1070.3052	48.8885	1082.04	49.2184
1058.7228	48.5628	1070.4576	48.8928	1082.1924	49.2227
1058.8752	48.5671	1070.61	48.897	1082.3448	49.227
1059.0276	48.5714	1070.7625	48.9013	1082.4972	49.2313
1059.1801	48.5757	1070.9148	48.9056	1082.6497	49.2356
1059.3324	48.5799	1071.0673	48.9099	1082.802	49.2398
1059.4847	48.5842	1071.2196	48.9142	1082.9543	49.2441
1059.6372	48.5885	1071.3719	48.9185	1083.1068	49.2484
1059.7896	48.5928	1071.5244	48.9228	1083.2592	49.2527
1059.942	48.5971	1071.6768	48.927	1083.4116	49.257
1060.0944	48.6014	1071.8292	48.9313	1083.564	49.2613

1083.7164	49.2656	1095.4512	49.5955	1107.186	49.9254
1083.8688	49.2698	1095.6036	49.5998	1107.3384	49.9297
1084.0212	49.2741	1095.756	49.6041	1107.4908	49.934
1084.1736	49.2784	1095.9084	49.6084	1107.6432	49.9383
1084.326	49.2827	1096.0608	49.6126	1107.7957	49.9426
1084.4784	49.287	1096.2133	49.6169	1107.948	49.9469
1084.6309	49.2913	1096.3656	49.6212	1108.1003	49.9512
1084.7832	49.2955	1096.5179	49.6255	1108.2528	49.9554
1084.9355	49.2998	1096.6704	49.6298	1108.4052	49.9597
1085.088	49.3041	1096.8228	49.6341	1108.5576	49.964
1085.2404	49.3084	1096.9752	49.6384	1108.71	49.9683
1085.3928	49.3127	1097.1276	49.6426	1108.8624	49.9726
1085.5452	49.317	1097.28	49.6469	1109.0148	49.9769
1085.6976	49.3213	1097.4324	49.6512	1109.1672	49.9812
1085.85	49.3255	1097.5848	49.6555	1109.3196	49.9854
1086.0024	49.3298	1097.7372	49.6598	1109.472	49.9897
1086.1548	49.3341	1097.8896	49.6641	1109.6244	49.994
1086.3073	49.3384	1098.042	49.6683	1109.7769	49.9983
1086.4596	49.3427	1098.1945	49.6726	1109.9292	50.0026
1086.6121	49.347	1098.3468	49.6769	1110.0815	50.0069
1086.7644	49.3513	1098.4991	49.6812	1110.234	50.0111
1086.9167	49.3555	1098.6516	49.6855	1110.3864	50.0154
1087.0692	49.3598	1098.804	49.6898	1110.5388	50.0197
1087.2216	49.3641	1098.9564	49.6941	1110.6912	50.024
1087.374	49.3684	1099.1088	49.6983	1110.8436	50.0283
1087.5264	49.3727	1099.2612	49.7026	1110.996	50.0326
1087.6788	49.377	1099.4136	49.7069	1111.1484	50.0369
1087.8312	49.3812	1099.566	49.7112	1111.3008	50.0411
1087.9836	49.3855	1099.7184	49.7155	1111.4532	50.0454
1088.136	49.3898	1099.8708	49.7198	1111.6056	50.0497
1088.2885	49.3941	1100.0232	49.7241	1111.7581	50.054
1088.4408	49.3984	1100.1757	49.7283	1111.9104	50.0583
1088.5931	49.4027	1100.328	49.7326	1112.0627	50.0626
1088.7456	49.407	1100.4803	49.7369	1112.2152	50.0669
1088.8979	49.4112	1100.6328	49.7412	1112.3676	50.0711
1089.0504	49.4155	1100.7852	49.7455	1112.52	50.0754
1089.2028	49.4198	1100.9376	49.7498	1112.6724	50.0797
1089.3552	49.4241	1101.09	49.754	1112.8248	50.084
1089.5076	49.4284	1101.2424	49.7583	1112.9772	50.0883
1089.66	49.4327	1101.3948	49.7626	1113.1296	50.0926
1089.8124	49.437	1101.5472	49.7669	1113.282	50.0968
1089.9648	49.4412	1101.6996	49.7712	1113.4344	50.1011
1090.1172	49.4455	1101.8521	49.7755	1113.5868	50.1054
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1090.422	49.4541	1102.1569	49.784	1113.8916	50.114
1090.5743	49.4584	1102.3092	49.7883	1114.0439	50.1183
1090.7268	49.4627	1102.4615	49.7926	1114.1964	50.1226
1090.8792	49.4669	1102.614	49.7969	1114.3488	50.1268
1091.0316	49.4712	1102.7664	49.8012	1114.5012	50.1311
1091.184	49.4755	1102.9188	49.8055	1114.6536	50.1354
1091.3364	49.4798	1103.0712	49.8098	1114.806	50.1397
1091.4888	49.4841	1103.2236	49.814	1114.9584	50.144
1091.6412	49.4884	1103.376	49.8183	1115.1108	50.1483
1091.7936	49.4927	1103.5284	49.8226	1115.2632	50.1526
1091.946	49.4969	1103.6808	49.8269	1115.4156	50.1568
1092.0984	49.5012	1103.8333	49.8312	1115.568	50.1611
1092.2509	49.5055	1103.9856	49.8355	1115.7205	50.1654
1092.4032	49.5098	1104.1379	49.8397	1115.8728	50.1697
1092.5555	49.5141	1104.2904	49.844	1116.0251	50.174
1092.708	49.5184	1104.4427	49.8483	1116.1776	50.1783
1092.8604	49.5227	1104.5952	49.8526	1116.33	50.1825
1093.0128	49.5269	1104.7476	49.8569	1116.4824	50.1868
1093.1652	49.5312	1104.9	49.8612	1116.6348	50.1911
1093.3176	49.5355	1105.0524	49.8655	1116.7872	50.1954
1093.47	49.5398	1105.2048	49.8697	1116.9396	50.1997
1093.6224	49.5441	1105.3572	49.874	1117.092	50.204
1093.7748	49.5484	1105.5096	49.8783	1117.2444	50.2083
1093.9272	49.5527	1105.662	49.8826	1117.3969	50.2125
1094.0796	49.5569	1105.8145	49.8869	1117.5492	50.2168
1094.2321	49.5612	1105.9668	49.8912	1117.7017	50.2211
1094.3844	49.5655	1106.1191	49.8955	1117.854	50.2254
1094.5367	49.5698	1106.2716	49.8997	1118.0063	50.2297
1094.6892	49.5741	1106.424	49.904	1118.1588	50.234
1094.8416	49.5784	1106.5764	49.9083	1118.3112	50.2383
1094.994	49.5826	1106.7288	49.9126	1118.4636	50.2425
1095.1464	49.5869	1106.8812	49.9169	1118.616	50.2468
1095.2988	49.5912	1107.0336	49.9212	1118.7684	50.2511

1118.9208	50.2554	1130.6556	50.5853	1142.3904	50.9153
1119.0732	50.2597	1130.808	50.5896	1142.5428	50.9196
1119.2256	50.264	1130.9604	50.5939	1142.6952	50.9239
1119.3781	50.2683	1131.1128	50.5982	1142.8477	50.9281
1119.5304	50.2725	1131.2653	50.6025	1143	50.9324
1119.6827	50.2768	1131.4176	50.6068	1143.1523	50.9367
1119.8352	50.2811	1131.5699	50.6111	1143.3048	50.941
1119.9875	50.2854	1131.7224	50.6153	1143.4572	50.9453
1120.14	50.2897	1131.8748	50.6196	1143.6096	50.9496
1120.2924	50.294	1132.0272	50.6239	1143.762	50.9539
1120.4448	50.2982	1132.1796	50.6282	1143.9144	50.9581
1120.5972	50.3025	1132.332	50.6325	1144.0668	50.9624
1120.7496	50.3068	1132.4844	50.6368	1144.2192	50.9667
1120.902	50.3111	1132.6368	50.6411	1144.3716	50.971
1121.0544	50.3154	1132.7892	50.6453	1144.524	50.9753
1121.2068	50.3197	1132.9417	50.6496	1144.6764	50.9796
1121.3593	50.324	1133.094	50.6539	1144.8289	50.9839
1121.5116	50.3282	1133.2465	50.6582	1144.9812	50.9881
1121.6639	50.3325	1133.3988	50.6625	1145.1335	50.9924
1121.8164	50.3368	1133.5511	50.6668	1145.286	50.9967
1121.9688	50.3411	1133.7036	50.671	1145.4384	51.001
1122.1212	50.3454	1133.856	50.6753	1145.5908	51.0053
1122.2736	50.3497	1134.0084	50.6796	1145.7432	51.0096
1122.426	50.354	1134.1608	50.6839	1145.8956	51.0138
1122.5784	50.3582	1134.3132	50.6882	1146.048	51.0181
1122.7308	50.3625	1134.4656	50.6925	1146.2004	51.0224
1122.8832	50.3668	1134.618	50.6968	1146.3528	51.0267
1123.0356	50.3711	1134.7704	50.701	1146.5052	51.031
1123.188	50.3754	1134.9229	50.7053	1146.6576	51.0353
1123.3405	50.3797	1135.0752	50.7096	1146.8101	51.0396
1123.4928	50.3839	1135.2275	50.7139	1146.9624	51.0438
1123.6451	50.3882	1135.38	50.7182	1147.1147	51.0481
1123.7976	50.3925	1135.5323	50.7225	1147.2672	51.0524
1123.95	50.3968	1135.6848	50.7268	1147.4196	51.0567
1124.1024	50.4011	1135.8372	50.731	1147.572	51.061
1124.2548	50.4054	1135.9896	50.7353	1147.7244	51.0653
1124.4072	50.4097	1136.142	50.7396	1147.8768	51.0696
1124.5596	50.4139	1136.2944	50.7439	1148.0292	51.0738
1124.712	50.4182	1136.4468	50.7482	1148.1816	51.0781
1124.8644	50.4225	1136.5992	50.7525	1148.334	51.0824
1125.0168	50.4268	1136.7516	50.7567	1148.4865	51.0867
1125.1692	50.4311	1136.9041	50.761	1148.6388	51.091
1125.3217	50.4354	1137.0564	50.7653	1148.7913	51.0953
1125.474	50.4397	1137.2087	50.7696	1148.9436	51.0995
1125.6263	50.4439	1137.3612	50.7739	1149.0959	51.1038
1125.7788	50.4482	1137.5135	50.7782	1149.2484	51.1081
1125.9312	50.4525	1137.666	50.7825	1149.4008	51.1124
1126.0836	50.4568	1137.8184	50.7867	1149.5532	51.1167
1126.236	50.4611	1137.9708	50.791	1149.7056	51.121
1126.3884	50.4654	1138.1232	50.7953	1149.858	51.1253
1126.5408	50.4696	1138.2756	50.7996	1150.0104	51.1295
1126.6932	50.4739	1138.428	50.8039	1150.1628	51.1338
1126.8456	50.4782	1138.5804	50.8082	1150.3152	51.1381
1126.998	50.4825	1138.7328	50.8125	1150.4677	51.1424
1127.1504	50.4868	1138.8853	50.8167	1150.62	51.1467
1127.3029	50.4911	1139.0376	50.821	1150.7725	51.151
1127.4552	50.4954	1139.1899	50.8253	1150.9248	51.1553
1127.6075	50.4996	1139.3424	50.8296	1151.0771	51.1595
1127.76	50.5039	1139.4948	50.8339	1151.2296	51.1638
1127.9124	50.5082	1139.6472	50.8382	1151.382	51.1681
1128.0648	50.5125	1139.7996	50.8424	1151.5344	51.1724
1128.2172	50.5168	1139.952	50.8467	1151.6868	51.1767
1128.3696	50.5211	1140.1044	50.851	1151.8392	51.181
1128.522	50.5254	1140.2568	50.8553	1151.9916	51.1852
1128.6744	50.5296	1140.4092	50.8596	1152.144	51.1895
1128.8268	50.5339	1140.5616	50.8639	1152.2964	51.1938
1128.9792	50.5382	1140.714	50.8682	1152.4489	51.1981
1129.1316	50.5425	1140.8665	50.8724	1152.6012	51.2024
1129.2841	50.5468	1141.0188	50.8767	1152.7535	51.2067
1129.4364	50.5511	1141.1711	50.881	1152.906	51.211
1129.5887	50.5553	1141.3236	50.8853	1153.0583	51.2152
1129.7412	50.5596	1141.476	50.8896	1153.2108	51.2195
1129.8936	50.5639	1141.6284	50.8939	1153.3632	51.2238
1130.046	50.5682	1141.7808	50.8982	1153.5156	51.2281
1130.1984	50.5725	1141.9332	50.9024	1153.668	51.2324
1130.3508	50.5768	1142.0856	50.9067	1153.8204	51.2367
1130.5032	50.5811	1142.238	50.911	1153.9728	51.241

1154.1252	51.2452	1165.86	51.5752	1177.5948	51.9051
1154.2776	51.2495	1166.0125	51.5795	1177.7472	51.9094
1154.4301	51.2538	1166.1648	51.5838	1177.8997	51.9137
1154.5824	51.2581	1166.3173	51.5881	1178.052	51.918
1154.7347	51.2624	1166.4696	51.5923	1178.2043	51.9223
1154.8872	51.2667	1166.6219	51.5966	1178.3568	51.9266
1155.0396	51.271	1166.7744	51.6009	1178.5092	51.9308
1155.192	51.2752	1166.9268	51.6052	1178.6616	51.9351
1155.3444	51.2795	1167.0792	51.6095	1178.814	51.9394
1155.4968	51.2838	1167.2316	51.6138	1178.9664	51.9437
1155.6492	51.2881	1167.384	51.618	1179.1188	51.948
1155.8016	51.2924	1167.5364	51.6223	1179.2712	51.9523
1155.954	51.2967	1167.6888	51.6266	1179.4236	51.9566
1156.1064	51.3009	1167.8412	51.6309	1179.576	51.9608
1156.2588	51.3052	1167.9937	51.6352	1179.7284	51.9651
1156.4113	51.3095	1168.146	51.6395	1179.8809	51.9694
1156.5636	51.3138	1168.2983	51.6437	1180.0332	51.9737
1156.7159	51.3181	1168.4508	51.648	1180.1855	51.978
1156.8684	51.3224	1168.6031	51.6523	1180.338	51.9823
1157.0208	51.3267	1168.7556	51.6566	1180.4904	51.9865
1157.1732	51.3309	1168.908	51.6609	1180.6428	51.9908
1157.3256	51.3352	1169.0604	51.6652	1180.7952	51.9951
1157.478	51.3395	1169.2128	51.6695	1180.9476	51.9994
1157.6304	51.3438	1169.3652	51.6737	1181.1	52.0037
1157.7828	51.3481	1169.5176	51.678	1181.2524	52.008
1157.9352	51.3524	1169.67	51.6823	1181.4048	52.0123
1158.0876	51.3567	1169.8224	51.6866	1181.5573	52.0165
1158.24	51.3609	1169.9749	51.6909	1181.7096	52.0208
1158.3925	51.3652	1170.1272	51.6952	1181.8621	52.0251
1158.5448	51.3695	1170.2795	51.6995	1182.0144	52.0294
1158.6971	51.3738	1170.432	51.7037	1182.1667	52.0337
1158.8496	51.3781	1170.5844	51.708	1182.3192	52.038
1159.002	51.3824	1170.7368	51.7123	1182.4716	52.0423
1159.1544	51.3866	1170.8892	51.7166	1182.624	52.0465
1159.3068	51.3909	1171.0416	51.7209	1182.7764	52.0508
1159.4592	51.3952	1171.194	51.7252	1182.9288	52.0551
1159.6116	51.3995	1171.3464	51.7295	1183.0812	52.0594
1159.764	51.4038	1171.4988	51.7337	1183.2336	52.0637
1159.9164	51.4081	1171.6512	51.738	1183.386	52.068
1160.0688	51.4124	1171.8036	51.7423	1183.5385	52.0723
1160.2212	51.4166	1171.9561	51.7466	1183.6908	52.0765
1160.3737	51.4209	1172.1084	51.7509	1183.8431	52.0808
1160.526	51.4252	1172.2607	51.7552	1183.9956	52.0851
1160.6783	51.4295	1172.4132	51.7594	1184.1479	52.0894
1160.8308	51.4338	1172.5656	51.7637	1184.3004	52.0937
1160.9832	51.4381	1172.718	51.768	1184.4528	52.098
1161.1356	51.4424	1172.8704	51.7723	1184.6052	52.1022
1161.288	51.4466	1173.0228	51.7766	1184.7576	52.1065
1161.4404	51.4509	1173.1752	51.7809	1184.91	52.1108
1161.5928	51.4552	1173.3276	51.7852	1185.0624	52.1151
1161.7452	51.4595	1173.48	51.7894	1185.2148	52.1194
1161.8976	51.4638	1173.6324	51.7937	1185.3672	52.1237
1162.05	51.4681	1173.7848	51.798	1185.5197	52.128
1162.2024	51.4723	1173.9373	51.8023	1185.672	52.1322
1162.3549	51.4766	1174.0896	51.8066	1185.8243	52.1365
1162.5072	51.4809	1174.2419	51.8109	1185.9768	52.1408
1162.6595	51.4852	1174.3944	51.8151	1186.1292	52.1451
1162.812	51.4895	1174.5468	51.8194	1186.2816	52.1494
1162.9644	51.4938	1174.6992	51.8237	1186.434	52.1537
1163.1168	51.4981	1174.8516	51.828	1186.5864	52.158
1163.2692	51.5023	1175.004	51.8323	1186.7388	52.1622
1163.4216	51.5066	1175.1564	51.8366	1186.8912	52.1665
1163.574	51.5109	1175.3088	51.8409	1187.0436	52.1708
1163.7264	51.5152	1175.4612	51.8451	1187.196	52.1751
1163.8788	51.5195	1175.6136	51.8494	1187.3484	52.1794
1164.0313	51.5238	1175.766	51.8537	1187.5009	52.1837
1164.1836	51.5281	1175.9185	51.858	1187.6532	52.188
1164.3361	51.5323	1176.0708	51.8623	1187.8055	52.1922
1164.4884	51.5366	1176.2231	51.8666	1187.958	52.1965
1164.6407	51.5409	1176.3756	51.8709	1188.1104	52.2008
1164.7932	51.5452	1176.528	51.8751	1188.2628	52.2051
1164.9456	51.5495	1176.6804	51.8794	1188.4152	52.2094
1165.098	51.5538	1176.8328	51.8837	1188.5676	52.2137
1165.2504	51.558	1176.9852	51.888	1188.72	52.2179
1165.4028	51.5623	1177.1376	51.8923	1188.8724	52.2222
1165.5552	51.5666	1177.29	51.8966	1189.0248	52.2265
1165.7076	51.5709	1177.4424	51.9008	1189.1772	52.2308

1189.3296	52.2351	1201.0645	52.565	1212.7992	52.895
1189.4821	52.2394	1201.2168	52.5693	1212.9517	52.8993
1189.6344	52.2437	1201.3691	52.5736	1213.104	52.9035
1189.7867	52.2479	1201.5216	52.5779	1213.2563	52.9078
1189.9392	52.2522	1201.674	52.5822	1213.4088	52.9121
1190.0916	52.2565	1201.8264	52.5865	1213.5612	52.9164
1190.244	52.2608	1201.9788	52.5907	1213.7136	52.9207
1190.3964	52.2651	1202.1312	52.595	1213.866	52.925
1190.5488	52.2694	1202.2836	52.5993	1214.0184	52.9293
1190.7012	52.2736	1202.436	52.6036	1214.1708	52.9335
1190.8536	52.2779	1202.5884	52.6079	1214.3232	52.9378
1191.006	52.2822	1202.7408	52.6122	1214.4756	52.9421
1191.1584	52.2865	1202.8932	52.6165	1214.6281	52.9464
1191.3108	52.2908	1203.0457	52.6207	1214.7804	52.9507
1191.4633	52.2951	1203.198	52.625	1214.9327	52.955
1191.6156	52.2994	1203.3503	52.6293	1215.0852	52.9593
1191.7679	52.3036	1203.5028	52.6336	1215.2375	52.9635
1191.9204	52.3079	1203.6552	52.6379	1215.39	52.9678
1192.0728	52.3122	1203.8076	52.6422	1215.5424	52.9721
1192.2252	52.3165	1203.96	52.6464	1215.6948	52.9764
1192.3776	52.3208	1204.1124	52.6507	1215.8472	52.9807
1192.53	52.3251	1204.2648	52.655	1215.9996	52.985
1192.6824	52.3294	1204.4172	52.6593	1216.152	52.9893
1192.8348	52.3336	1204.5696	52.6636	1216.3044	52.9935
1192.9872	52.3379	1204.722	52.6679	1216.4568	52.9978
1193.1396	52.3422	1204.8744	52.6722	1216.6093	53.0021
1193.292	52.3465	1205.0269	52.6764	1216.7616	53.0064
1193.4445	52.3508	1205.1792	52.6807	1216.9139	53.0107
1193.5968	52.3551	1205.3315	52.685	1217.0664	53.015
1193.7491	52.3593	1205.484	52.6893	1217.2188	53.0192
1193.9016	52.3636	1205.6364	52.6936	1217.3712	53.0235
1194.054	52.3679	1205.7888	52.6979	1217.5236	53.0278
1194.2064	52.3722	1205.9412	52.7021	1217.676	53.0321
1194.3588	52.3765	1206.0936	52.7064	1217.8284	53.0364
1194.5112	52.3808	1206.246	52.7107	1217.9808	53.0407
1194.6636	52.3851	1206.3984	52.715	1218.1332	53.045
1194.816	52.3893	1206.5508	52.7193	1218.2856	53.0492
1194.9684	52.3936	1206.7032	52.7236	1218.438	53.0535
1195.1208	52.3979	1206.8556	52.7279	1218.5905	53.0578
1195.2732	52.4022	1207.0081	52.7321	1218.7428	53.0621
1195.4257	52.4065	1207.1604	52.7364	1218.8951	53.0664
1195.578	52.4108	1207.3127	52.7407	1219.0476	53.0707
1195.7303	52.4151	1207.4652	52.745	1219.2	53.075
1195.8828	52.4193	1207.6176	52.7493	1219.3524	53.0792
1196.0352	52.4236	1207.77	52.7536	1219.5048	53.0835
1196.1876	52.4279	1207.9224	52.7579	1219.6572	53.0878
1196.34	52.4322	1208.0748	52.7621	1219.8096	53.0921
1196.4924	52.4365	1208.2272	52.7664	1219.962	53.0964
1196.6448	52.4408	1208.3796	52.7707	1220.1144	53.1007
1196.7972	52.4451	1208.532	52.775	1220.2668	53.1049
1196.9496	52.4493	1208.6844	52.7793	1220.4192	53.1092
1197.1021	52.4536	1208.8368	52.7836	1220.5717	53.1135
1197.2544	52.4579	1208.9893	52.7879	1220.724	53.1178
1197.4069	52.4622	1209.1416	52.7921	1220.8763	53.1221
1197.5592	52.4665	1209.2939	52.7964	1221.0288	53.1264
1197.7115	52.4708	1209.4464	52.8007	1221.1812	53.1307
1197.864	52.475	1209.5988	52.805	1221.3336	53.1349
1198.0164	52.4793	1209.7512	52.8093	1221.486	53.1392
1198.1688	52.4836	1209.9036	52.8136	1221.6384	53.1435
1198.3212	52.4879	1210.056	52.8178	1221.7908	53.1478
1198.4736	52.4922	1210.2084	52.8221	1221.9432	53.1521
1198.626	52.4965	1210.3608	52.8264	1222.0956	53.1564
1198.7784	52.5008	1210.5132	52.8307	1222.248	53.1607
1198.9308	52.505	1210.6656	52.835	1222.4004	53.1649
1199.0833	52.5093	1210.818	52.8393	1222.5529	53.1692
1199.2356	52.5136	1210.9705	52.8436	1222.7052	53.1735
1199.3879	52.5179	1211.1228	52.8478	1222.8575	53.1778
1199.5404	52.5222	1211.2751	52.8521	1223.01	53.1821
1199.6927	52.5265	1211.4276	52.8564	1223.1624	53.1864
1199.8452	52.5308	1211.58	52.8607	1223.3148	53.1906
1199.9976	52.535	1211.7324	52.865	1223.4672	53.1949
1200.15	52.5393	1211.8848	52.8693	1223.6196	53.1992
1200.3024	52.5436	1212.0372	52.8736	1223.772	53.2035
1200.4548	52.5479	1212.1896	52.8778	1223.9244	53.2078
1200.6072	52.5522	1212.342	52.8821	1224.0768	53.2121
1200.7596	52.5565	1212.4944	52.8864	1224.2292	53.2164
1200.912	52.5607	1212.6469	52.8907	1224.3816	53.2206

1224.5341	53.2249	1236.2688	53.5549	1248.0035	53.8848
1224.6864	53.2292	1236.4211	53.5592	1248.156	53.8891
1224.8387	53.2335	1236.5736	53.5634	1248.3083	53.8934
1224.9912	53.2378	1236.726	53.5677	1248.4608	53.8977
1225.1436	53.2421	1236.8784	53.572	1248.6132	53.902
1225.296	53.2464	1237.0308	53.5763	1248.7656	53.9063
1225.4484	53.2506	1237.1832	53.5806	1248.918	53.9105
1225.6008	53.2549	1237.3356	53.5849	1249.0704	53.9148
1225.7532	53.2592	1237.488	53.5892	1249.2228	53.9191
1225.9056	53.2635	1237.6404	53.5934	1249.3752	53.9234
1226.058	53.2678	1237.7928	53.5977	1249.5276	53.9277
1226.2104	53.2721	1237.9452	53.602	1249.6801	53.932
1226.3628	53.2763	1238.0977	53.6063	1249.8324	53.9362
1226.5153	53.2806	1238.25	53.6106	1249.9847	53.9405
1226.6676	53.2849	1238.4023	53.6149	1250.1372	53.9448
1226.8199	53.2892	1238.5548	53.6191	1250.2896	53.9491
1226.9724	53.2935	1238.7072	53.6234	1250.442	53.9534
1227.1248	53.2978	1238.8596	53.6277	1250.5944	53.9577
1227.2772	53.3021	1239.012	53.632	1250.7468	53.962
1227.4296	53.3063	1239.1644	53.6363	1250.8992	53.9662
1227.582	53.3106	1239.3168	53.6406	1251.0516	53.9705
1227.7344	53.3149	1239.4692	53.6449	1251.204	53.9748
1227.8868	53.3192	1239.6216	53.6491	1251.3564	53.9791
1228.0392	53.3235	1239.774	53.6534	1251.5088	53.9834
1228.1917	53.3278	1239.9264	53.6577	1251.6613	53.9877
1228.344	53.3321	1240.0789	53.662	1251.8136	53.9919
1228.4965	53.3363	1240.2312	53.6663	1251.9659	53.9962
1228.6488	53.3406	1240.3835	53.6706	1252.1184	54.0005
1228.8011	53.3449	1240.536	53.6749	1252.2708	54.0048
1228.9536	53.3492	1240.6884	53.6791	1252.4232	54.0091
1229.106	53.3535	1240.8408	53.6834	1252.5756	54.0134
1229.2584	53.3578	1240.9932	53.6877	1252.728	54.0177
1229.4108	53.362	1241.1456	53.692	1252.8804	54.0219
1229.5632	53.3663	1241.298	53.6963	1253.0328	54.0262
1229.7156	53.3706	1241.4504	53.7006	1253.1852	54.0305
1229.868	53.3749	1241.6028	53.7048	1253.3376	54.0348
1230.0204	53.3792	1241.7552	53.7091	1253.49	54.0391
1230.1729	53.3835	1241.9076	53.7134	1253.6425	54.0434
1230.3252	53.3878	1242.0601	53.7177	1253.7948	54.0477
1230.4775	53.392	1242.2124	53.722	1253.9471	54.0519
1230.63	53.3963	1242.3647	53.7263	1254.0996	54.0562
1230.7823	53.4006	1242.5172	53.7306	1254.252	54.0605
1230.9348	53.4049	1242.6696	53.7348	1254.4044	54.0648
1231.0872	53.4092	1242.822	53.7391	1254.5568	54.0691
1231.2396	53.4135	1242.9744	53.7434	1254.7092	54.0734
1231.392	53.4178	1243.1268	53.7477	1254.8616	54.0776
1231.5444	53.422	1243.2792	53.752	1255.014	54.0819
1231.6968	53.4263	1243.4316	53.7563	1255.1664	54.0862
1231.8492	53.4306	1243.584	53.7606	1255.3188	54.0905
1232.0016	53.4349	1243.7365	53.7648	1255.4712	54.0948
1232.1541	53.4392	1243.8888	53.7691	1255.6237	54.0991
1232.3064	53.4435	1244.0413	53.7734	1255.776	54.1034
1232.4587	53.4477	1244.1936	53.7777	1255.9283	54.1076
1232.6112	53.452	1244.3459	53.782	1256.0808	54.1119
1232.7635	53.4563	1244.4984	53.7863	1256.2332	54.1162
1232.916	53.4606	1244.6508	53.7906	1256.3856	54.1205
1233.0684	53.4649	1244.8032	53.7948	1256.538	54.1248
1233.2208	53.4692	1244.9556	53.7991	1256.6904	54.1291
1233.3732	53.4735	1245.108	53.8034	1256.8428	54.1334
1233.5256	53.4777	1245.2604	53.8077	1256.9952	54.1376
1233.678	53.482	1245.4128	53.812	1257.1476	54.1419
1233.8304	53.4863	1245.5652	53.8163	1257.3	54.1462
1233.9828	53.4906	1245.7177	53.8205	1257.4524	54.1505
1234.1353	53.4949	1245.87	53.8248	1257.6049	54.1548
1234.2876	53.4992	1246.0225	53.8291	1257.7572	54.1591
1234.4399	53.5035	1246.1748	53.8334	1257.9095	54.1633
1234.5924	53.5077	1246.3271	53.8377	1258.062	54.1676
1234.7448	53.512	1246.4796	53.842	1258.2144	54.1719
1234.8972	53.5163	1246.632	53.8463	1258.3668	54.1762
1235.0496	53.5206	1246.7844	53.8505		
1235.202	53.5249	1246.9368	53.8548		
1235.3544	53.5292	1247.0892	53.8591		
1235.5068	53.5334	1247.2416	53.8634		
1235.6592	53.5377	1247.394	53.8677		
1235.8116	53.542	1247.5464	53.872		
1235.964	53.5463	1247.6989	53.8763		
1236.1165	53.5506	1247.8512	53.8805		

Topes
"Topes" Zones

Well: YPF.Ch.LC-668
Date: 09/10/2014 11:09:28

Zone_Name	Top	Bottom
CII	775	967
CIII	967	1252.1

Zonas
"Zonas" Zones

Well: YPF.Ch.LC-668

Date: 09/10/2014 11:09:20

Zone_Name	Top	Bottom
CII	775	845
CIIa	845	970
CIII	967	1037.844
CIIIa	1037.844	1196.035
CIIIb	1196.035	1254.1