

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
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	0.47
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	1.05764 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			
ALTDPCCHAN	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	15.50	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	2107.00	M
TDL	Total Depth - Logger	2090.50	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: CBL_Fluid_Compensated_REP Vertical Scale: 1:200 Graphics File Created: 03-Apr-2005 00:02

OP System Version: 11C0-305

MCM

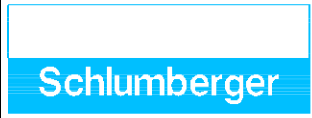
SDT-C	11C0-305	CNT-H	OP11-KP1
TCC-B	OP11-KP1	CAL-Y	11C0-305

Input DLIS Files

DEFAULT	SONIC_CNL_004LUP	FN:3	PRODUCER	02-Apr-2005 21:51	2094.3 M	732.4 M
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Output DLIS Files

DEFAULT	SONIC_CNL_006LUP	FN:5	PRODUCER	03-Apr-2005 00:02
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TRAMO SIN CORRECCION DE PROFUNDIDAD

Company: _____ Well: _____

Output DLIS Files

DEFAULT SONIC_CNL_003LUP FN:2 PRODUCER 02-Apr-2005 21:42 2091.1 M 2018.2 M

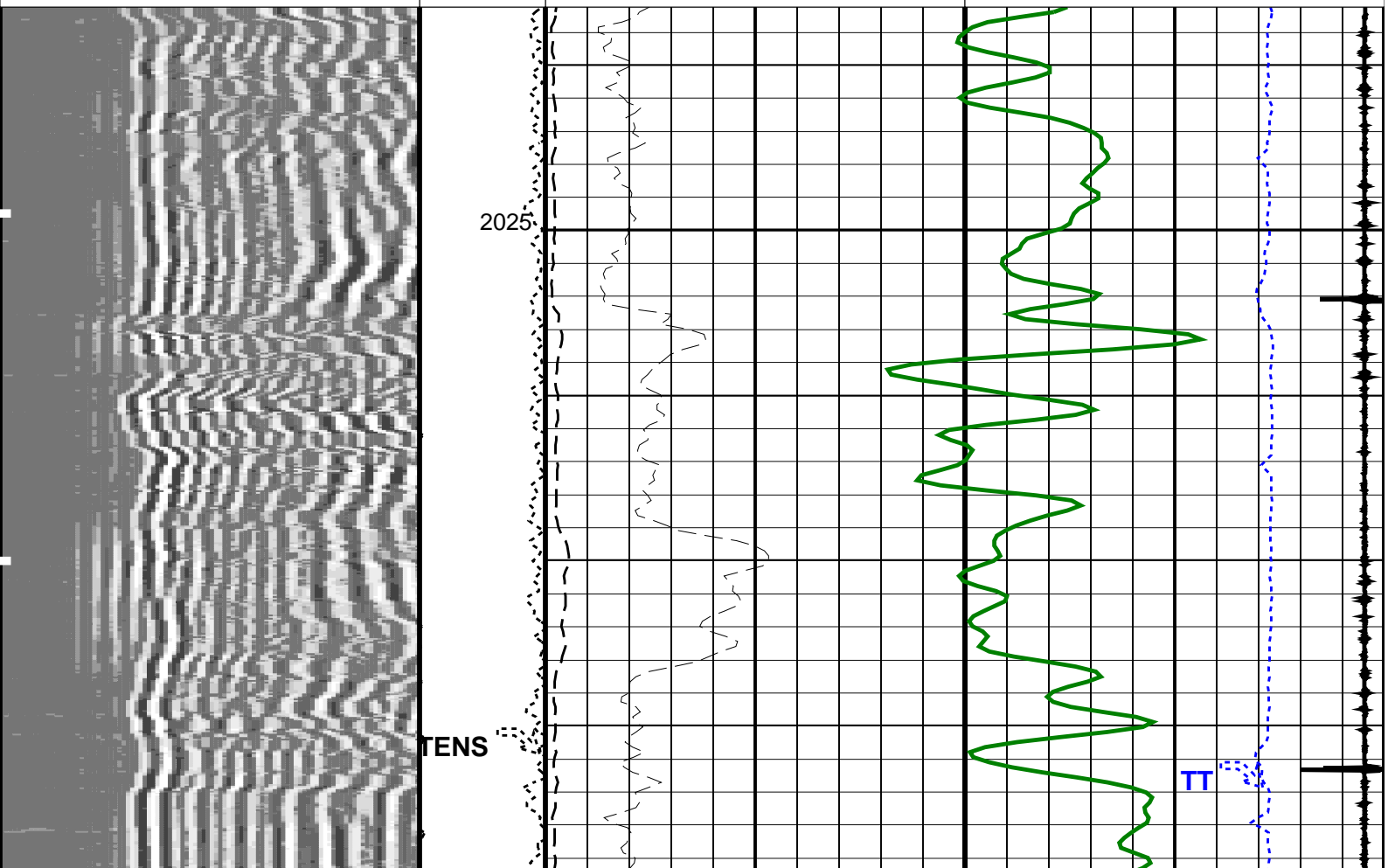
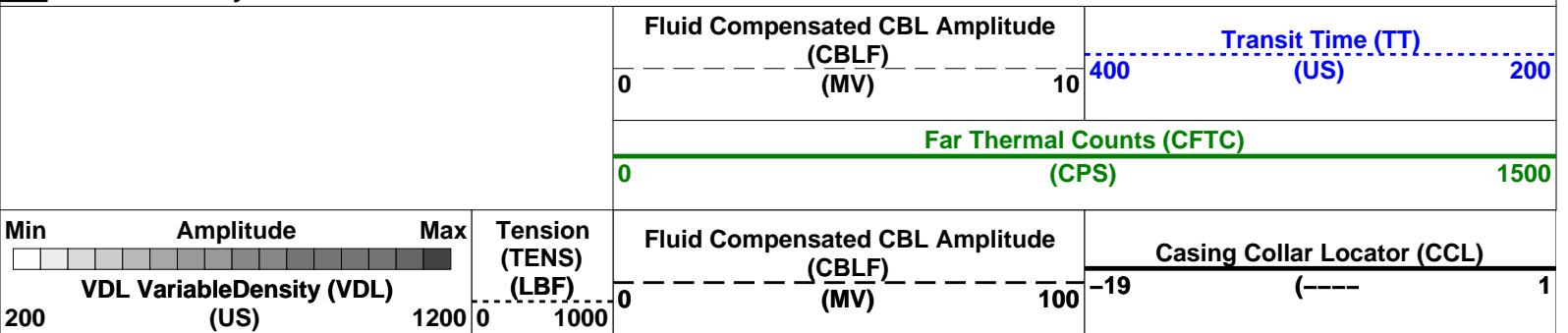
OP System Version: 11C0-305

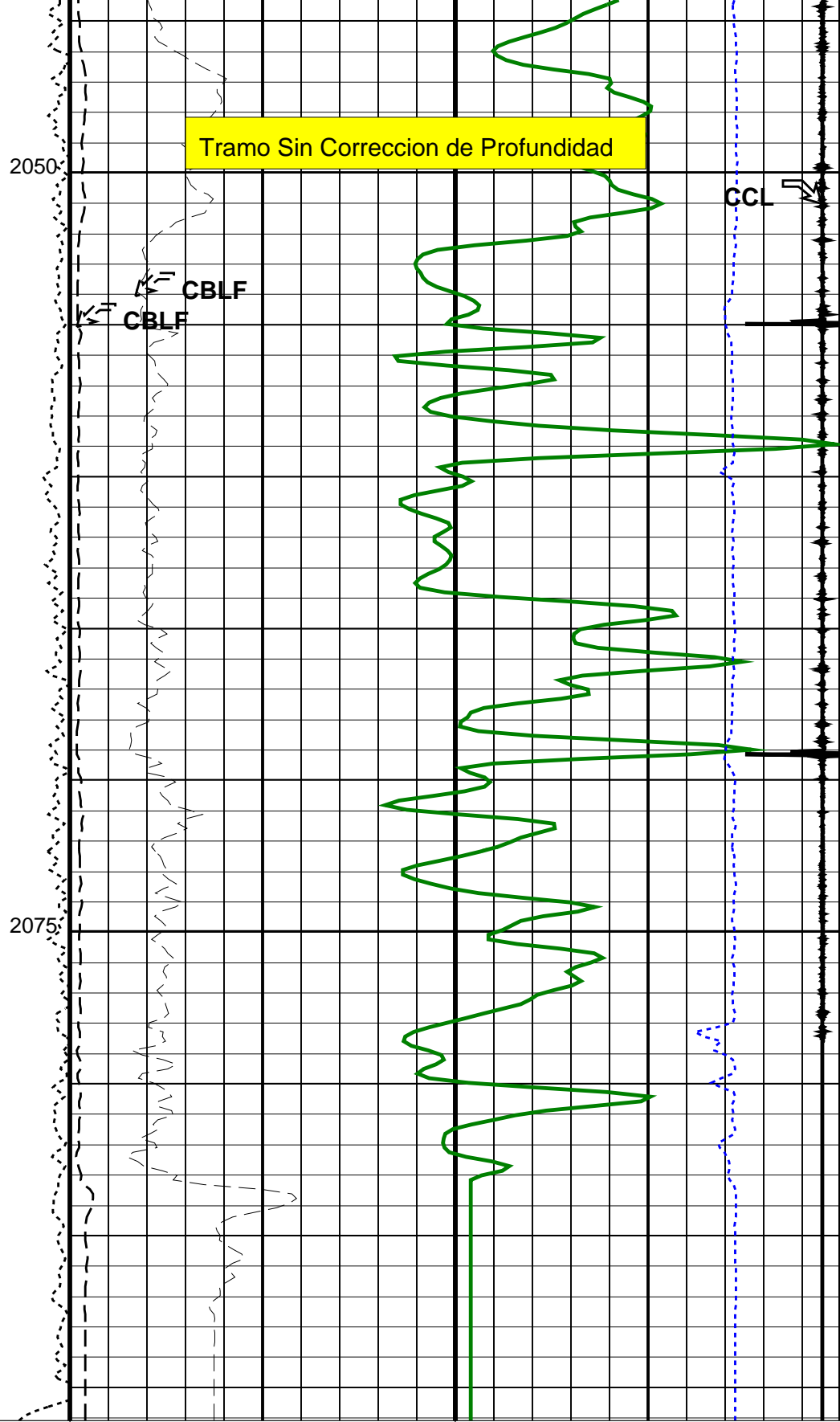
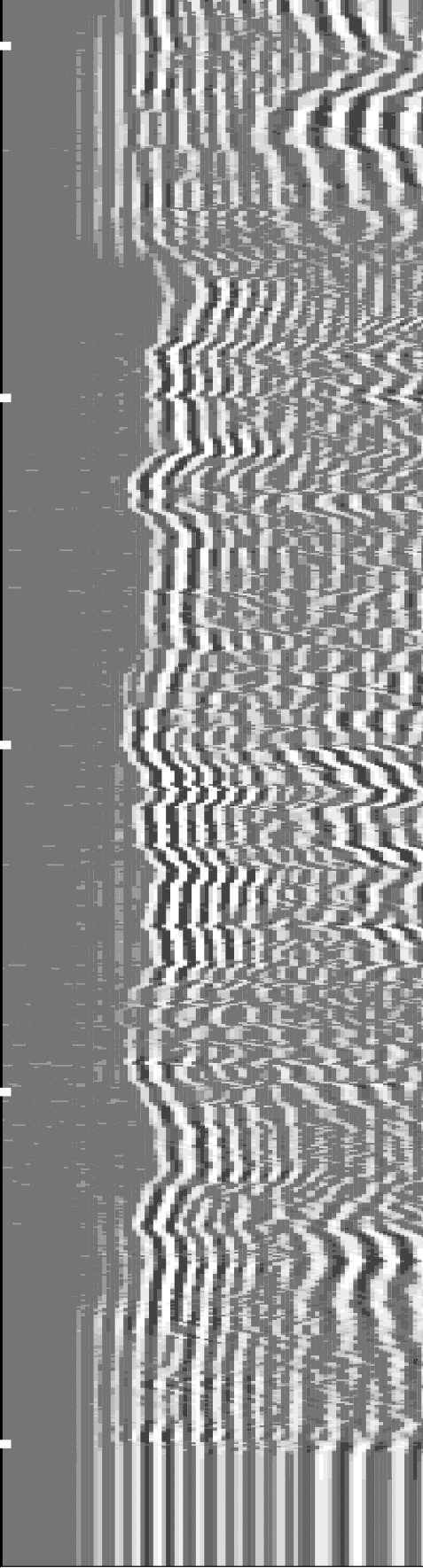
MCM

SDT-C 11C0-305 CNT-H OP11-KP1
 TCC-B OP11-KP1 CAL-Y 11C0-305

PIP SUMMARY

Time Mark Every 60 S



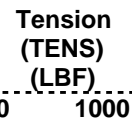
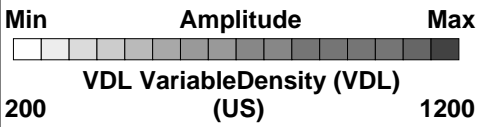


Tramo Sin Correccion de Profundidad

CBLF
CBLF

CCL

2075



Fluid Compensated CBL Amplitude (CBLF) (MV)

Casing Collar Locator (CCL) (----)

Far Thermal Counts (CFTC) (CPS)

Fluid Compensated CBL Amplitude (CBLF) (MV)

Transit Time (TT) (US)

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	0.47	
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	1.05764	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				
ALTDPCCHAN	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		15.50	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

Format: CBL_Fluid_Compensated Vertical Scale: 1:200 Graphics File Created: 02-Apr-2005 21:42

OP System Version: 11C0-305

MCM

SDT-C	11C0-305	CNT-H	OP11-KP1
TCC-B	OP11-KP1	CAL-Y	11C0-305

Output DLIS Files

DEFAULT	SONIC_CNL_003LUP	FN:2	PRODUCER	02-Apr-2005 21:42
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NEUQUEN
 MAXIS EXPRESS

Análisis de Repetibilidad en Tramo sin Corrección

Company: _____ Well: _____

Input DLIS Files

DEFAULT	SONIC_CNL_003LUP	FN:2	PRODUCER	02-Apr-2005 21:42	2091.1 M	2018.2 M
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Output DLIS Files

DEFAULT	SONIC_CNL_004LUP	FN:3	PRODUCER	02-Apr-2005 21:51
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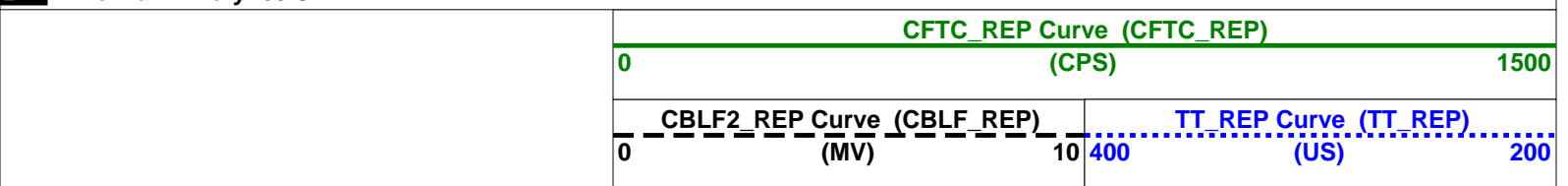
OP System Version: 11C0-305

MCM

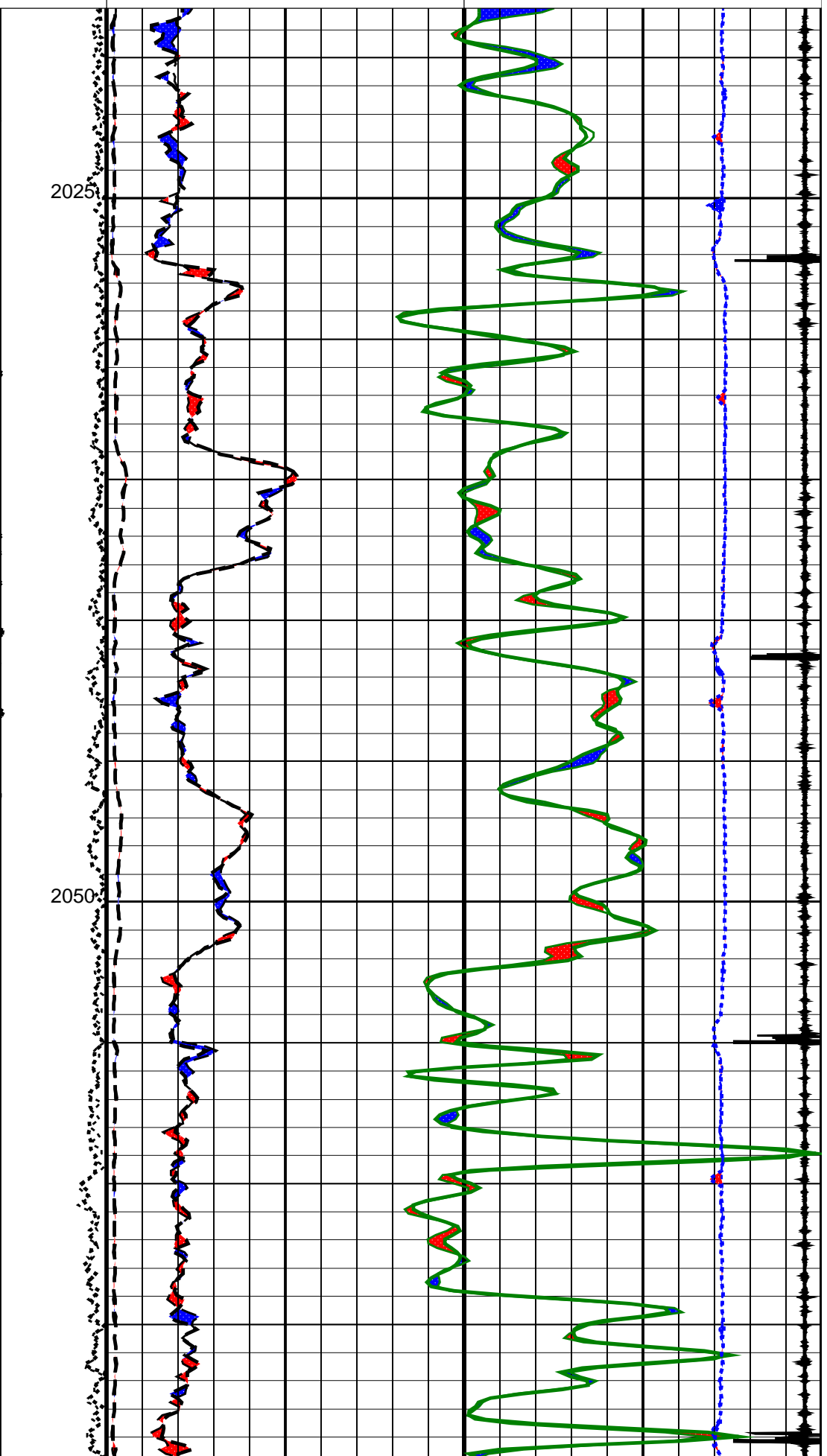
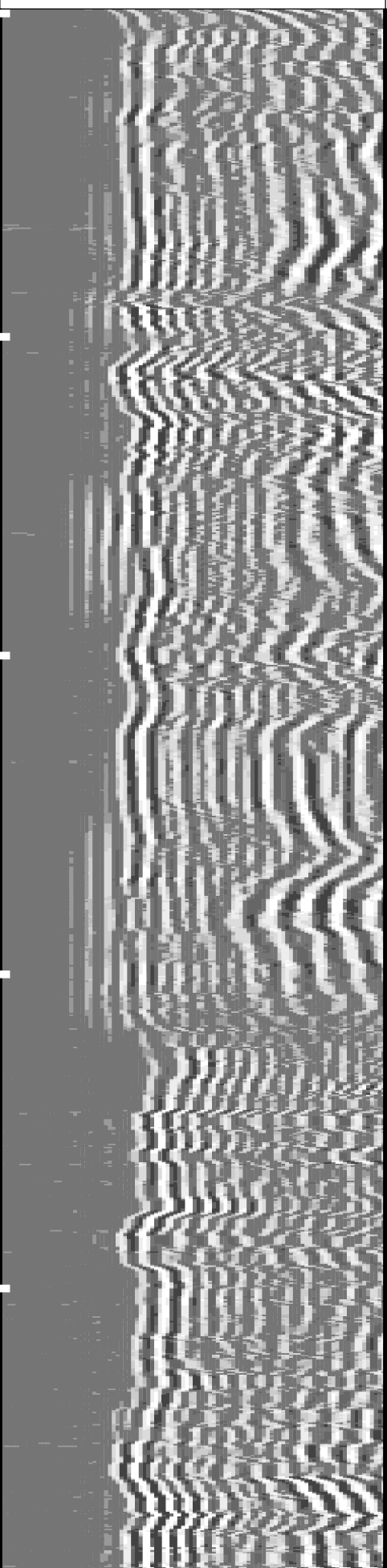
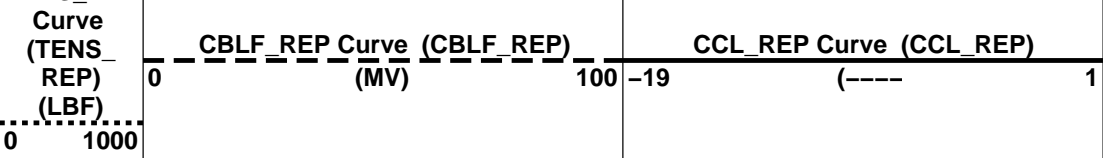
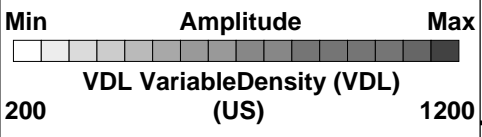
SDT-C	11C0-305	CNT-H	OP11-KP1
TCC-B	OP11-KP1	CAL-Y	11C0-305

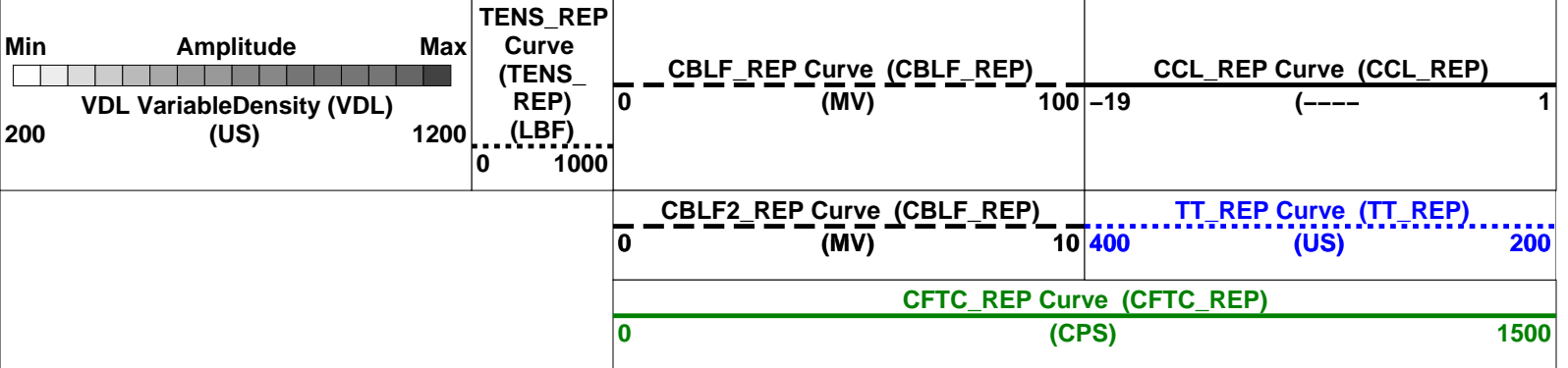
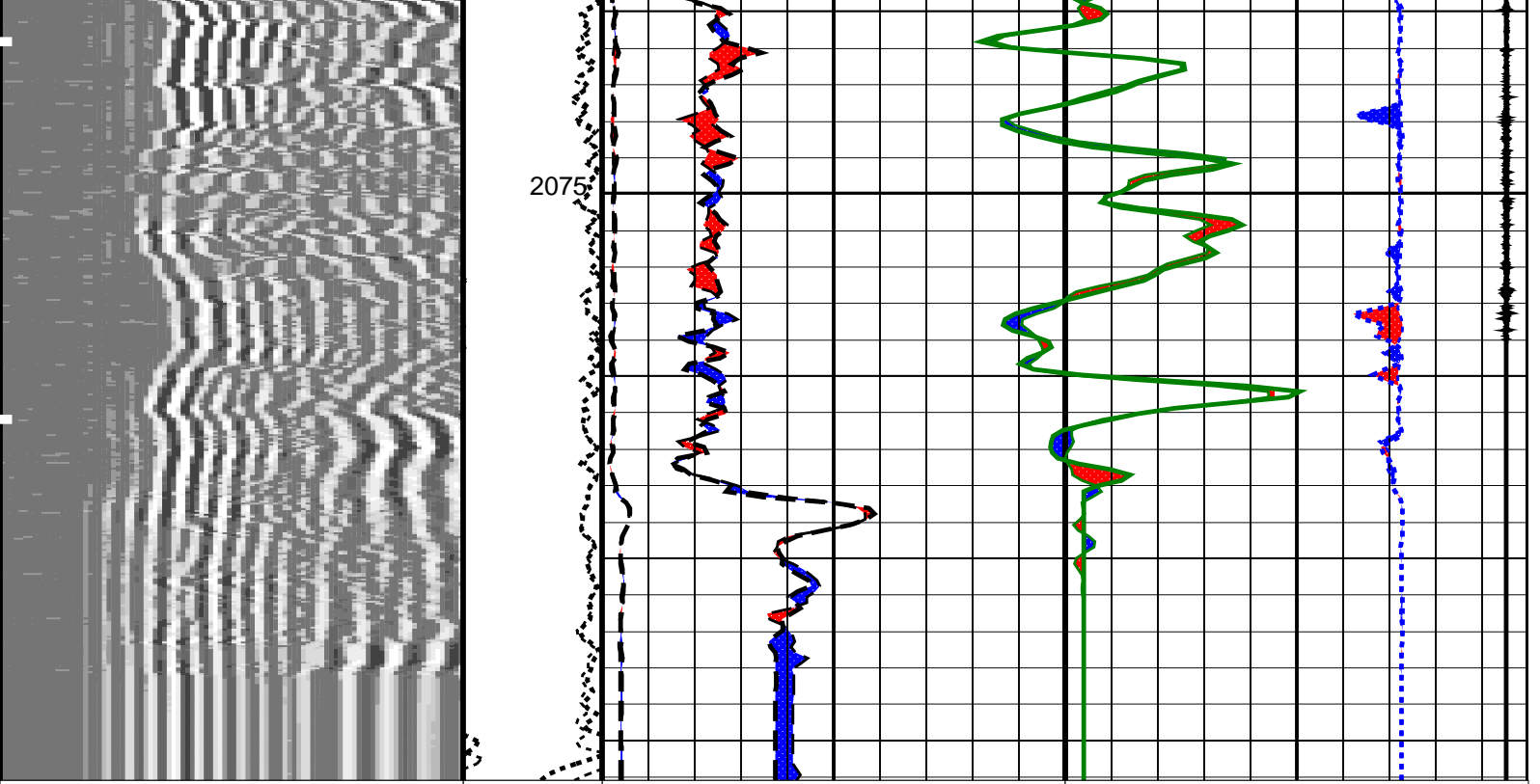
PIP SUMMARY

Time Mark Every 60 S



TENS REP





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
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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	
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MSA	Minimum Sonic Amplitude	1.05764	MV
NMSG	Near Minimum Sliding Gate	248	US
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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	
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GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
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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			
ALTDPCCHAN	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	15.50	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: 02-Apr-2005 21:51

OP System Version: 11C0-305

MCM

SDT-C	11C0-305	CNT-H	OP11-KP1
TCC-B	OP11-KP1	CAL-Y	11C0-305

Input DLIS Files

DEFAULT	SONIC_CNL_003LUP	FN:2	PRODUCER	02-Apr-2005 21:42	2091.1 M	2018.2 M
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Output DLIS Files

MAXIS EXPRESS



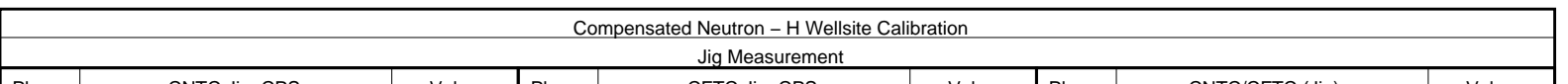
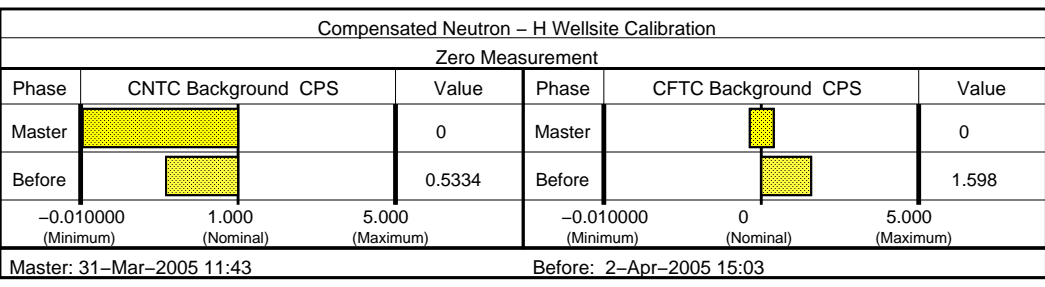
CALIBRACION

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: 2-Apr-2005 15:03							
CNTC Background	1.000	0	0.5334	N/A	N/A	N/A	CPS
CFTC Background	0	0	1.598	N/A	N/A	N/A	CPS
Compensated Neutron – H Wellsite Calibration – Jig Measurement							
Master: 31-Mar-2005 11:58 Before: 2-Apr-2005 15:01							
CNTC Jig	2821	2821	2804	N/A	N/A	N/A	CPS
CFTC Jig	1169	1169	1181	N/A	N/A	N/A	CPS
CNTC/CFTC (Jig)	2.412	2.412	2.374	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	



Phase	CNTC Jig CPS	Value	Phase	CFIC Jig CPS	Value	Phase	CNTC/CFIC (Jig)	Value	
Master		2821	Master		1169	Master		2.412	
Before		2804	Before		1181	Before		2.374	
	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: 2-Apr-2005 15:01						

Compania: **YPF S.A.**

Schlumberger

Pozo: **YPF.Ch.EA-670**

Campo: **EL ALBA**

Provincia: **CHUBUT**

Pais: **ARGENTINA**

CONTROL DE CEMENTO

CBL VDL CNL CCL

1/200

LABORATORIO
BASE CHUBUT



EPSILON SRL
LABORATORIO INDUSTRIAL

Ruta 3, Km.1838, B°Gral. Mosconi - (9005) C. Rivadavia -Chubut, Arg. * Tel/Fax: (0297)-4550825 / 4559365

Muestra de: Petróleo
Lugar de Muestreo: Pozo: EA-670
Fecha de Extracción: 30/05/05
Fecha de Recepción: 30/05/05
Solicitado Por: REPSOL - YPF SA. Sr. Rogelio Marquez
Objetivo del Análisis: Control de calidad.

PROTOCOLO N°: 2310-05CR

Fecha Informe: 02/06/05

Pag. 1/1

ITEM N° =									
CANTIDAD =									

Distrito N° =
N° Orden =

INFORME DE ENSAYO

PETROLEO HIDRATADO

DETERMINACION	NORMA	UNIDAD	VALORES ENCONTRADOS
% AT(%AL+D4007)	S/N	% V/V	28.0
% Agua Libre	Procedimiento REPSOL YPF	% V/V	0.0
Impureza Total	ASTM D-4007 Mod.	% V/V	28.0
Arena y Barro		% V/V	0.0
Agua Separada		% V/V	12.0
Emulsión		% V/V	16.0
Agua Exacta		% V/V	28.0
Densidad a 15°C de petróleo	ASTM D-5002	g/cm ³	0.9579
Punto de escurrimiento	ASTM D-97	°C	-4

VISCOSIDAD (MU) Y ESFUERZO DE CORTE (TAU) x REOMETRO

TEMP.	100 RPM		300 RPM		600 RPM	
	MU (cp)	TAU (Pas)	MU (cp)	TAU (Pas)	MU (cp)	TAU (Pas)
30°C	3825	509	3811	1411	3778	2685
40°C	2681	385	2671	954	2648	1806
50°C	1879	243	1872	644	1856	1215

PETROLEO DESHIDRATADO

DETERMINACION	NORMA	UNIDAD	VALORES ENCONTRADOS
% de parafina	UOP-86	% P/p	7.9
% de Asfalteno	SPE 23810	% P/p	4.5

Analista: AG

.....
Ing. Miguel LIZZANO
Rep. Tec. Por EPSILON S.R.L.





LABORATORIO CAÑADON SECO

Epsilon S.R.L. Cañadon Seco (C.P. 9013) Tel/Fax 0297-4850216

Procedente de:	Pozo EA-670	Zona:	M. Behr	Protocolo N°:	01443-05CS
Solicitado por:	Ruth Kim	Pozo:		Fecha de Extracción:	06/04/2005
Extraído por:	Terceros	Bateria:		Fecha de Recepción:	11/04/2005
Capa:				Fecha de Análisis:	11/04/2005

Análisis de Cromatografía Gaseosa Extendida

COMPONENTES	% MOLAR	Propiedades Físicas	
N2	7,07	PM (Kg/Kmol)	18,873
O2	2,05	Vm (m3/Kmol)	23,650
CO2	3,00	Densidad (abs)	0,798
CH4	84,70	Densidad (rel)	0,652
C2H6	2,19	PCs (Kcal/m3)	8309,192
C3H8	0,27	PCi (Kcal/m3)	7491,347
iC4H10	0,21	Compresib Z	0,997
nC4H10	0,11	°T Critica (°K)	190,441
iC5H12	0,06	Presion Critica (Atm)	44,766
nC5H12	0,07		
C6H14	0,10		
nC7H16	0,09		
nC8H18	0,06		
nC9H20	0,02		
Total	100		

Observaciones

Zona 961,5/63,5 mts Eq PI-222-Protocolo N° 1439-05CR

Analista: Gomez Marcelo Javir

Por Lab. Epsilon S.R.L.

Los resultados consignados fueron obtenidos dentro de un sistema de calidad y son representativos de la muestra analizada



LABORATORIO CAÑADON SECO

Epsilon S.R.L. Cañadon Seco (C.P. 9013) Tel/Fax 0297-4850216

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Analista: Gomez Marcelo Javir

Por Lab. Epsilon S.R.L.

Los resultados consignados fueron obtenidos dentro de un sistema de calidad y son representativos de la muestra analizada

A: Aguilera
DE: Vahnovan



DISTRITO. M. BEHR / R. ALI

POZO: EA-670

ZONA: ALBA 2

FECHA: 30/03/2005

PROGRAMA:

CUENTA:

EQUIPO:

DISEÑO:

CAÑOS

1 BAR COLLAR 2.7/8	1970
1 TBG FILTRO	
1 BHD	1960,35
207 TUBING LISO 2.7/8"	

B/B

BBA 25-175-RHBC 24 4' DE BOLLAND

14 B/B 1.1/2"	Grado D Nuevas
92 'B/B 3/4"	Grado D Nuevas
80 'B/B 7/8"	Grado D Nuevas
± 72 B/B 1"	Grado D Nuevas
TROZOS 1"	Grado D Nuevas
VASTAGO CROMADO 1 1/2" x 22'	

Transportar: Dispositivo Leutert, Espaciadores, Valvula de 2" y niple de 2" sch 80 Tee prensa, Rattigan de 2.7/8", Cupla de vastago, valvula de 1" con niple, cruceta

AIB

SIAM M-640-305-144 en locación VH-82

CARRERA 144

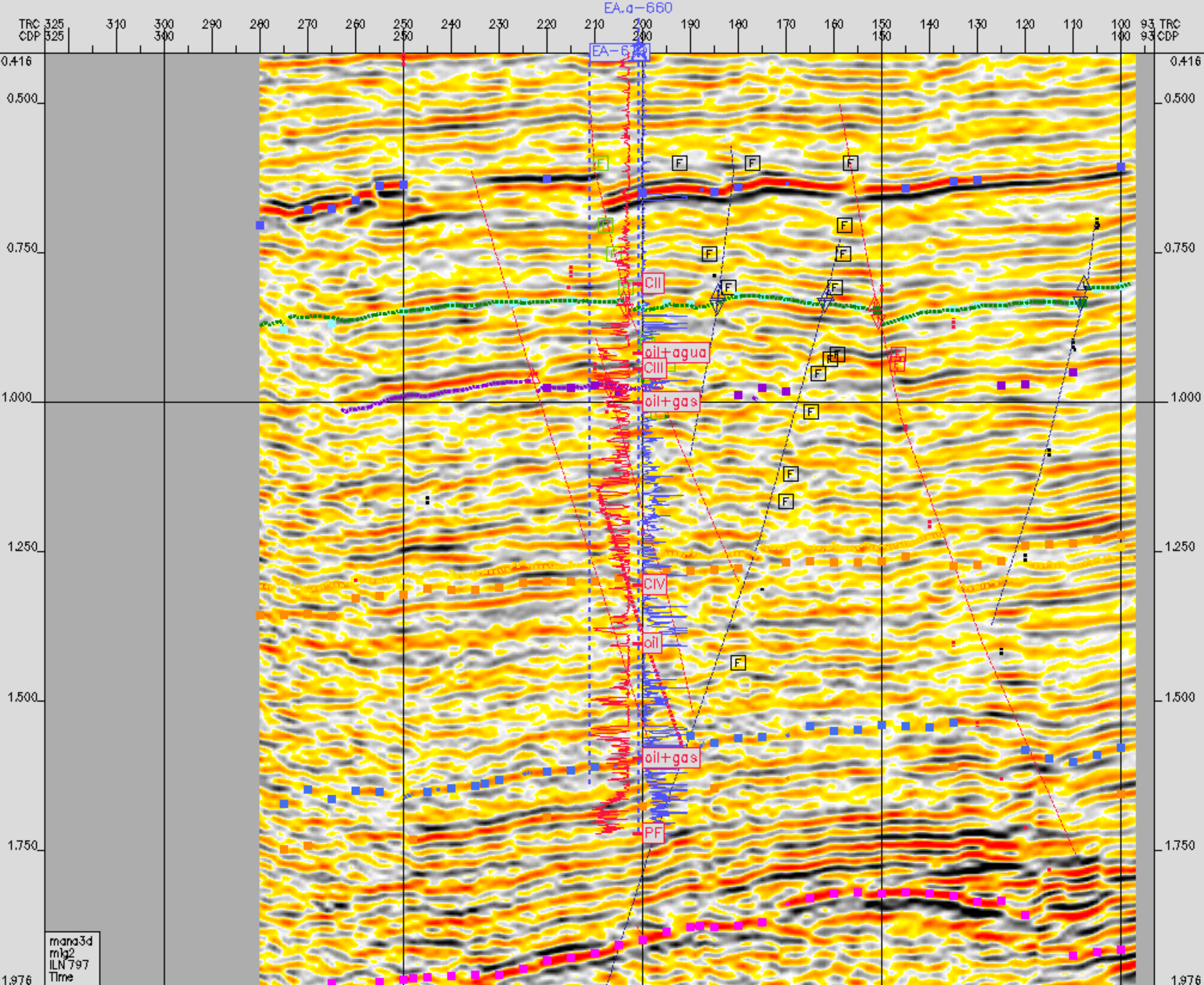
REGIMEN 6 GPM

INSTALACIÓN ELÉCTRICA

MOTOR

100 HP

Bba 25-175 valvulas VM=VF=Ctitanio piston 4' c/ 10 anillos luz 0.07 Con dispositivo para Gas Mecánico; Sello arena



TRC 325
CDP 325

310

300
340

290

280

270

260

250
250

240

230

220

210

200
200

190

180

170

160

150

140

130

120

110

100

93

TRC
CDP

93

TRC
CDP

0.416

0.500

0.750

1.000

1.250

1.500

1.750

1.976

0.416

0.500

0.750

1.000

1.250

1.500

1.750

1.976

mana3d
mkg2
ILN 797
Time



RESUMEN DE LA OPERACION

MAXIS Field Log

Client: YPF S. A.
Field: EL ALBA
Well: EA-609
Run date: 2-Nov-2008

Tool: XPT-BA
Probe Type: Conventional probe
Gauge: CP_SAP
Gauge Resolution: 0.010 psi

Test	File	Depth M	TVD M	Drawdown Mobility MD/CP	Mud Pressure		Last read build-up Pres PSIA	Formation Pressure PSIA	Test Type
					Before PSIA	After PSIA			
2	39	1000.01	1000.01		1727.70	1712.96	140.35	140.35	Dry Test
3	40	999.70	999.70		1712.34	1713.15	131.27	131.27	Dry Test
4	41	1036.01	1036.01		1785.57	1769.94		982.97	Lost Seal
5	42	1035.91	1035.91		1772.06	1772.05		432.77	Lost Seal
6	43	1075.50	1075.50		1857.17	1844.83	135.62	135.62	Dry Test
8	49	1408.49	1408.49	3.99	2406.23	2394.75	1176.99	1176.99	Volumetric Limited draw-down
11	50	1509.00	1509.00	6.26	2624.14	2592.14	1302.33	1302.33	Volumetric Limited draw-down
12	51	1540.30	1540.30		2668.52	2645.35		765.76	Lost Seal
14	52	1540.60	1540.60		2647.18	2632.66	133.45	133.45	Dry Test
15	53	1550.50	1550.50		2668.37	2647.15	85.55	85.55	Dry Test
16	54	1557.00	1557.00	0.20	2677.87	2646.74	1546.14	1546.14	Volumetric Limited draw-down
17	55	1573.50	1573.50		2718.78	2676.01	148.38	148.38	Dry Test
18	56	1573.00	1573.00		2680.59	2669.34	114.89	114.89	Dry Test
-1	58	1587.50	1587.50		2726.72	2715.41			Lost Seal
22	59	1658.99	1658.99	16.31	2886.49	2852.95	1355.91	1355.91	Volumetric Limited draw-down
25	60	1595.80	1595.80	6.82	2718.33	2717.04	1475.45	1475.45	Volumetric Limited draw-down
27	61	1640.50	1640.50	2.73	2819.65	2809.92	1565.24	1565.24	Volumetric Limited draw-down
29	63	1672.00	1672.00		2886.08	2863.95		1727.92	Lost Seal
31	67	1765.01	1765.01	0.73	3056.43	3033.38	1760.12	1760.12	Volumetric Limited draw-down

EQUIPO: A DESIGNAR

REPARACION DE PRIMARIA

POZO:EA-670

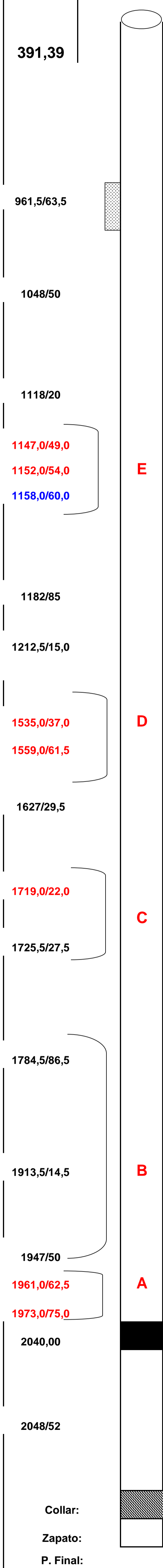


PEP:

ESQUEMA DE POZO

OBJETIVO: Abrir Capas nuevas/Evaluar estado actual de producción
 ESTADO: En Producción

CASING: 5 1/2" 14 #



CAUDAL	FLUIDO	NIVEL	I-T
	Gas seco p/ 50mm PD: 7Kg/cm2 ; p/25mm PD: 9 Kg/cm2 ; p/13mm 12Kg/cm2 PE: 19 Kgcm2 Est. en 15'		
Ctó			
1600	Pet.	855	12
300	Pet.	998	6
	Aporta gas c/Pet. Muy viscoso no se puede pistonear, por semi surgencia, y ahogarse		
400	Ag S/R	1040	
S/E			
250	Pet. Visc.	1520	6
380	Petróleo	1582	20
1000	Pet. Viscoso	1610	7
350	Agua S/R	1785	
1600	Pet. Viscoso	1750	69
	Tapón "N" con D. Bayler		
2400	Agua S/R	1850	

Programa Operativo

- A. Montar Equipo de RTP de acuerdo a procedimientos.
- Ultimo Control: #####
- Neta: 4,40
 Bruta: 8,00
 %Agua: 50,00
- 1° Montar Equipo RTP según procedimientos
 Calibrar hasta 2040 mbbp(tapon)
- 2° Si existe buena aislación, punzar las siguientes capas 4TPP: 0-90°; 32 grs
- | Capas | Carga | Fase | Profundidad Neutrón |
|-------------|-------|--------|---------------------|
| 1973,0/75,0 | 32gr. | 0°-90° | |
| 1961,0/62,5 | 32gr. | 0°-90° | |
| 1719,0/22,0 | 32gr. | 0°-90° | |
| 1559,0/61,5 | 32gr. | 0°-90° | |
| 1535,0/37,0 | 32gr. | 0°-90° | |
| 1158,0/60,0 | 22gr. | 0°-90° | |
| 1152,0/54,0 | 32gr. | 0°-90° | |
| 1147,0/49,0 | 32gr. | 0°-90° | |
- 3° Ensayar hasta estabilizar nivel, caudal y análisis, según esquema A) hasta E)
- 4° Si resultase SE probar admisión y reensayar.
- 5° En caso de extraer hidrocarburo tomar muestras para análisis y enviar a Epsilon.
- 6° En caso de ser gas medir presiones, tomar muestra y medir caudal.
- 7° De acuerdo a los resultados consultar pasos a seguir.

Prever estimulación con Gas-Oil a capas:
 1147,0/49,0
 1152,0/54,0
 1158,0/60,0

8° Bajar Instalación de Producción

NOTA: CAPAS CON PORCENTAJES DE AGUA MAYORES A 50%:
 CONSULTAR ANTES DE DAR POR FINALIZADO ENSAYO

EN CAPAS QUE APORTEN UN CAUDAL IMPORTANTE
 (Mayor de 500l/h) DE AGUA Y/O HIDROCARBUROS, TOMAR
 UNA MUESTRA Y ENVIARLA A EPSILON PARA EFECTUARLE UN
 UN ANALISIS COMPLETO Y RESISTIVIDAD.

Prep: Genini/Cameselle
 Geología Mbehr

Petrofísica	
SW	Pronostico
50	Pet
68	Agua c/R
66	Agua c/R o S/E
58	Pet+Agua
68	Agua c/R
50	Pet
45	Pet
58	Pet

DATOS A LLENAR				
			CARGAR DATOS	
	POZO		EA-670	
	BATERIA		Myburg	
	EQUIPO		KEY-08	
	FECHA		20/11/2009	
	RUBRO		Aumentar Producción	
	COSTO OBJETIVO		124.669,00	
	NOMBRE DEL PROYECTO		Reparaciones de Primaria 2009	
	N°DE GRAFO			
	PEP		RSIEC.10Y4.58.R0006	
	ZONA		Myburg	
	FLUIDO DE TRABAJO		AGUA DULCE CON MARCAT 0,1% (MARBAR)	
	FINALIZO PERFORACION		29 de marzo de 2005	
	ULTIMA INTERVENCION		28 de agosto de 2009	
COORDENADAS				
	X		4.949.430,15	
	Y		2.582.170,82	
	Z		650,00	
COMPANIAS DE SERVICIO				
	TORRE		KEY ENERGY SERVICES	
	CEMENTACION		SAI	
	ESTIMULACION		SLB	
	MOTOR DE FONDO		CHRISTENSEN	
	COILED TUBING		-	
	CABLE		GEOLOG	
PARA PUNZAR				
	CAÑÓN Ø		Cañón Ø 4"	4" ó 5"
	TIROS POR PIE		4 TxP 32 Grs	4
CASING				Ejemplos
	EN BOCA DE POZO Ø Y mts.		5 1/2"	7" a 23
	DIAMETRO Y LIBRAJE		5 1/2" 14-15,5-17#	5-1/2" 15,5
5 1/2"	12,42	15,5	2.095,16	
6 5/8"	18,54	0,0		
7"	20,60	0,0		
9 5/8"	39,40	15,4	390,99	
Total de m³+5			← NO TOCAR "PARA USO DEL BACTERICIDA"	107,83
	COLLAR DIFERENCIAL		2.095,16	
	ZAPATO		2.103,18	
	PROFUNDIDAD FINAL		2110,2	
INSTALACION FINAL				
	DEL POZO		Adjunta en "Instalación"	
MATERIAL DE BOMBEO				
	DEL POZO		Adjunta en "Instalación"	
HERRAMIENTA A BAJAR				
	COLOCAR TIPO DE HTA.Y Ø		Fresa 120 mm	
	CALIBRAR HASTA		2040	
	HERMETICIDAD DEL CSG DESDE			



ZONA M. BEHR
 UNIDAD DE NEGOCIOS ARGENTINA SUR
 UNIDAD ECONOMICA CHUBUT - CAÑADON SECO
 AREA MANANTIALES BEHR

20/11/2009

PROGRAMA OPERATIVO del POZO : **EA-670**

SUBREGION : **CH** ZONA : **Myburg** BAT: **Myburg**

RUBRO:

PROYECTO: **Reparaciones de Primaria 2009**

COSTO OBJETIVO: **U\$S** **124.669**

COSTO ESTIMADO: **U\$S** **94.893**

DIAS ESTIMADOS: **8,3**

FLUIDO DE REPARACION: **AGUA DULCE CON MARCAT 0,1% (MARBAR)**

EQUIPO : **KEY-08** CANTIDAD: **30,9** m³

PEP RS1EC.10Y4.58.R0006

COMPAÑIAS ASIGNADAS:

CABLE:	GEOLOG
TORRE:	KEY ENERGY SERVICES
CEMENTACION:	SAI
ESTIMULACION:	SLB
MOTOR DE FONDO:	CHRISTENSEN
COILED TUBING:	-

FINALIZO PERFORACION : **29 de marzo de 2005**

ULTIMA INTERVENCION: **28 de agosto de 2009**

OBSERVACIONES:

COORDENADAS:

X: 4.949.430,15

Y: 2.582.170,82

COTA: **Z: 650,00**

Altura mesa Rotary: 3,5 m

Elevación mesa Rotary: - m



RESERVA N°:

M. BEHR 20/11/2009
PEP RS1EC.10Y4.58.R0006

UNIDAD ECONOMICA CHUBUT-CDON. SECO
DISTRITO ZONA CENTRAL

X: 4.949.430,15 Z: 650,00
Y: 2.582.170,82

PROGRAMA OPERATIVO : **Reparaciones de Primaria 2009**

POZO : **EA-670** ZONA : **Myburg** SUBREGION : **CH** BAT: **Myburg**

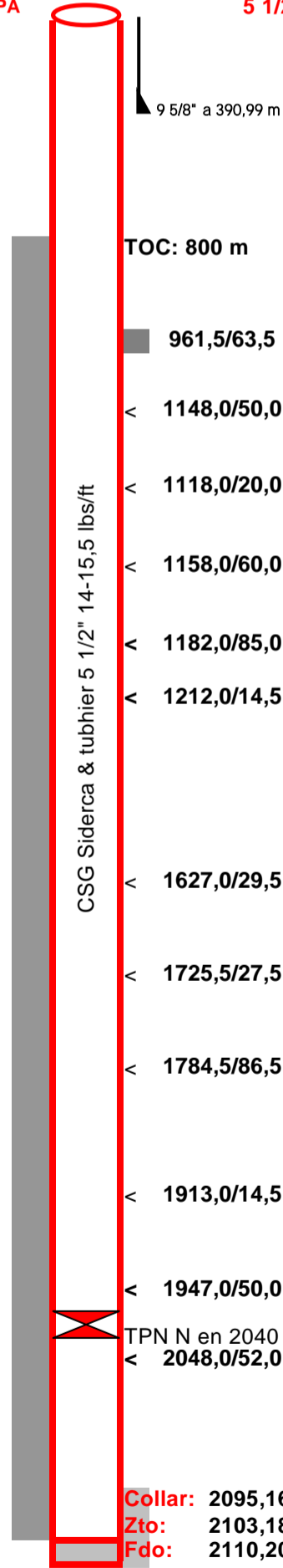
FLUIDO DE REPARACION: **AGUA DULCE CON MARCAT 0,1% (MARBAR)** CANTIDAD: **30,9 m³**

INSTALACION FINAL: **Adjunta en "Instalación"**

INSTALACION BBEO: **Adjunta en "Instalación"**

EQUIPO: **KEY-08** COMPAÑIA WIRE LINE: **GEOLOG**

N° CAPA 5 1/2" 14-15,5-17#
5 1/2"



PROGRAMA OPERATIVO

Nota: Referente MARBAR - Raúl Campoy 154-046003 - MARCAT (1 Lts x m3)
Tope de cemento: 800 m . Fondo WL: 2090,5 m. **Buen cemento** en la zona registrada.

- 1º) Montar Equipo y realizar check list.
Antes de montar controlar presiones estaticas de directa e inversa.
- 2º) Retirar instalación existente especificada en solapa "Instalación"
Sacar varillas desarmando y revisando el estado
Sacar TBG. Si los mismos estan en buen estado, consultar reemplazo. Si no se reemplazan sacar a la torre. Caso contrario sacar desarmando.
- 3º) Bajar cañería y calibrar con fresa Ø 120 mm hasta 2040 m.
Circular una capacidad de CSG.
- 4º) Punzar con cañón 4" 0-90° 32gr previa correlación con neutrón las siguientes capas:

	Capa	Carga	TPP	Fase	Esp (m)
	Punzar	1973,0/75,0	32 gr	4 0-90°	2
	Punzar	1961,0/62,5	32 gr	4 0-90°	1,5
	Punzar	1719,0/22,0	32 gr	4 0-90°	3
	Punzar	1559,0/61,5	32 gr	4 0-90°	2,5
	Punzar	1535,0/37,0	32 gr	4 0-90°	2
	Repunzar	1158,0/60,0	22 gr	2 0-90°	2
	Punzar	1152,0/54,0	32 gr	4 0-90°	2
	Punzar	1147,0/49,0	32 gr	4 0-90°	2
- 5º) Bajar TPN y PKR, y ensayar por pistoneo las capas de la siguiente manera **A), B), C), D) y E)** como se indica en la solapa "Esquema"
En capas que resulten SE, probar admisión y luego reensayar.
En caso de ser gas medir presiones y tomar muestra.
En caso de extraer hidrocarburo tomar muestra para análisis y enviar a Epsilon.
- 6º) Bajar instalación final, a definir por Ing de producción
Guardia de Ing Manantiales Behr: 155934862.
- 7º) Desmontar equipo completo.

Nota: Preever cementación.

Referencias		
Ingeniero del pozo	Gialleonardo, Lucas	155940281
Geologo del pozo	Baigorria, Gabriel	154776148
Ing de producción	Donascimento, Fernando	155934862

ADJUNTAR AL BALANCE DEL POZO EL BALANCE DE MATERIALES CON SUS RESP. FIRMAS.
COMPLETAR DIARIAMENTE LA PLANILLA DE BALANCE DE AGUA ENTREGADA POR EL COMPANY MAN.
REGISTRARLA EN EL ULTIMO PARTE DEL DAILY DRILLING LA ADMISIÓN TOTAL

Collar: 2095,16
Zto: 2103,18
Fdo: 2110,20

NO REALIZAR RESERVAS DE SOLICITUD NI DEVOLUCIÓN DE MATERIALES
Solicitar las necesidades de materiales al geólogo operativo de turno con copia a Claudio Gordillo

RECOMENDACIONES:

AL FINALIZAR EL POZO DEBERÁN PRESENTAR EL ESQUEMA DE LA INSTALACIÓN FINAL (SKETCHIT) SIENDO REQUISITO PARA CERTIFICAR, LA NO PRESENTACIÓN DEL MISMO SE TENDRÁ EN CUENTA PARA LA EVALUACIÓN CORRESPONDIENTE.-

CUANDO OCURRA CUALQUIER TIPO DE ACCIDENTE SE DEBE COMUNICAR EN FORMA INMEDIATA (Telefónicamente) AL JEFE DE DISTRITO, DONDE OCURRA EL MISMO.

DURANTE LA ETAPA DE TRANSPORTE DEL EQUIPO PROCEDER: EN CASO DE EXISTIR LINEAS ELECTRICAS EN EL RECORRIDO CUALQUIERA SEA LA ALTURA DE LAS MISMAS DAR AVISO AL SECTOR ENERGIA DE REPSOL-YPF POR INTERMEDIO DE COORDINACION DE PRODUCCION TELEF: 346000

QUEDA TERMINANTEMENTE PROHIBIDO EL USO DE LLAVES STILSON PARA REALIZAR AJUSTES DE ENROSQUES Y DESENROSQUES DE TUBULARES EN BOCA DE POZO LOS MISMOS SE HARAN CON LLAVES DE POTENCIA.-

SE LES RECUERDA QUE TODA PAG (SIMPLE O DOBLE) USADA O NUEVA DEBERA CONTAR CON NIPLES DE ALTA PRESION - ESPESOR ENTRE 8 y 9 mm CON ROSCA Ø 2" LP DE 11,5 FILETES POR PULG. DE NO CONTAR CON ESTOS ELEMENTOS NO ARMAR LAS MISMAS.-

NOTA: TOMAR PRECAUCIONES PARA EVITAR DERRAMES DE FLUIDOS. AVISAR URGENTE A LA INSPECCION. ADEMAS SE INDICA QUE SE DEBE COMUNICAR A LA MAYOR BREVEDAD POSIBLE TODAS LAS NOVEDADES QUE REVISTAN EL CARACTER DE ACCIDENTES DE PERSONAL.-

ORDEN: DE TODOS LOS ENSAYOS CON INSTALACION FINAL SE DEBERA TOMAR UNA MUESTRA, DE LA ULTIMA HORA DE ENSAYO, DE TRES LITROS Y ENVIARLA DEBIDAMENTE IDENTIFICADA AL LABORATORIO EPSILON Km3, A EFECTOS DE REALIZAR EL ENSAYO DE VISCOSIDAD A TRES TEMPERATURAS, PUNTO DE ESCURRIMIENTO Y TENOR PARAFINICO.-

TRANSCRIPCION DE: **MEMORANDUM**

A: COMPAÑIAS DE SERVICIOS

DE: JEFE DE AREA DE OPERACIONES DE PRODUCCION REG. CDRO. RVDA.

SE RECUERDA A ESA COMPAÑIA QUE EN VIRTUD DE LO DISPUESTO POR LAS RESOLUCIONES S.E Nº 105/92 Y 252/93 QUEDA EXPRESAMENTE PROHIBIDO DESCARGAR CRUDO O DERIVADOS DE DE HIDROCARBUROS A LAS PILETAS NATURALES DE LOS POZOS. CUANDO UNA EMERGENCIA OPERATIVA GENERE LA CONTAMINACION DE UNA PILETA, ESA COMPAÑIA DEBERA SUBSANAR EL PROBLEMA A LA BREVEDAD.-

LA NO OBSERVANCIA DE ESTAS NORMAS, GENERARA LA INTERVENCION DE YPF S.A. PARA REPARAR LA CONTAMINACION CON CARGO ESA CIA. Y LA APLICACION DE LAS MULTAS CORRESPONDIENTES.-

RESPONSABLE

TERMINACION / REPARACIÓN DE POZOS

Gerencia Manantiales Behr

Tipo de intervención Repa. Prim.

POZO EA-670

ESQUEMA	
9-5/8"	
14 #	
5 1/2" 14#	
Collar:	2095 m
Zapato:	2105 m
P. Final:	2110 m

PROGNOSIS DE Repa. Prim.	
Cementar patagoniano	no
Reparar Casing	no
Recuperar pesca	no
Rotar tapón	no
Reentubado	no
Csg suplementario	no
Profundidad pozo	2110 m
CBL - VDL metros a registrar	0 m
Intervalos punzados	8
Metros Punzados	17 m
Etapas de punzado	1
Cantidad de Ensayos	5
Horas de ensayo por intervalo	8 Hs
Cantidad de Cementaciones Normales	1
Cantidad de Cementaciones Correctivas	0
Cantidad de Estim. Matriciales	0
Horas de cierre acuohumectante	0 Hs
Horas Ensayo Estimulación Matricial	0 Hs
Cantidad de Fracturas	0
Control de arena	no
Gravel pack	no
Hs. De Fragüe arena recinada	0 Hs
Horas ensayo de fractura	0 Hs
Ensayo TST	0
Muestra PVT	0

PROGRAMA DE Repa. Prim.	
DTM y Montar equipo	18,0 hs
Acondicionar el Pozo	30,4 hs
Perfilar a pozo entubado	0,0 hs
Cemento normal	44,0 hs
Cemento correctivo	0,0 hs
Punzar formación	9,1 hs
Estimular	0,0 hs
Fracturar	0,0 hs
Controlar Arena	0,0 hs
Ensayar	63,4 hs
Bajar instalación final	20,5 hs
NPT	13,0 hs

COSTO DE LAS ETAPAS	
DTM y Montar equipo	\$ 9.475
Acondicionar el Pozo	\$ 8.808
Perfilar pozo	\$ -
Cemento normal	\$ 5.000
Cemento correctivo	\$ -
Punzar formación	\$ 11.540
Estimular	\$ -
Fracturar	\$ -
Controlar Arena	\$ -
Ensayar	\$ 19.378
Bajar instalación final	\$ 5.947
NPT	\$ 2.830
Transp. Cargas	\$ 9.467
Cargas sociales	\$ 3.664
Inspección	\$ 1.653
Trailer y piletas	\$ 788

RESUMEN DEL PRESUPUESTO	
TIEMPO DE TERMINACIÓN	8,3 días
COSTO DE TERMINACIÓN	\$ 94.893
TIEMPO DRILLING ABC	12,8 días
COSTO DRILLING ABC	\$ 124.669

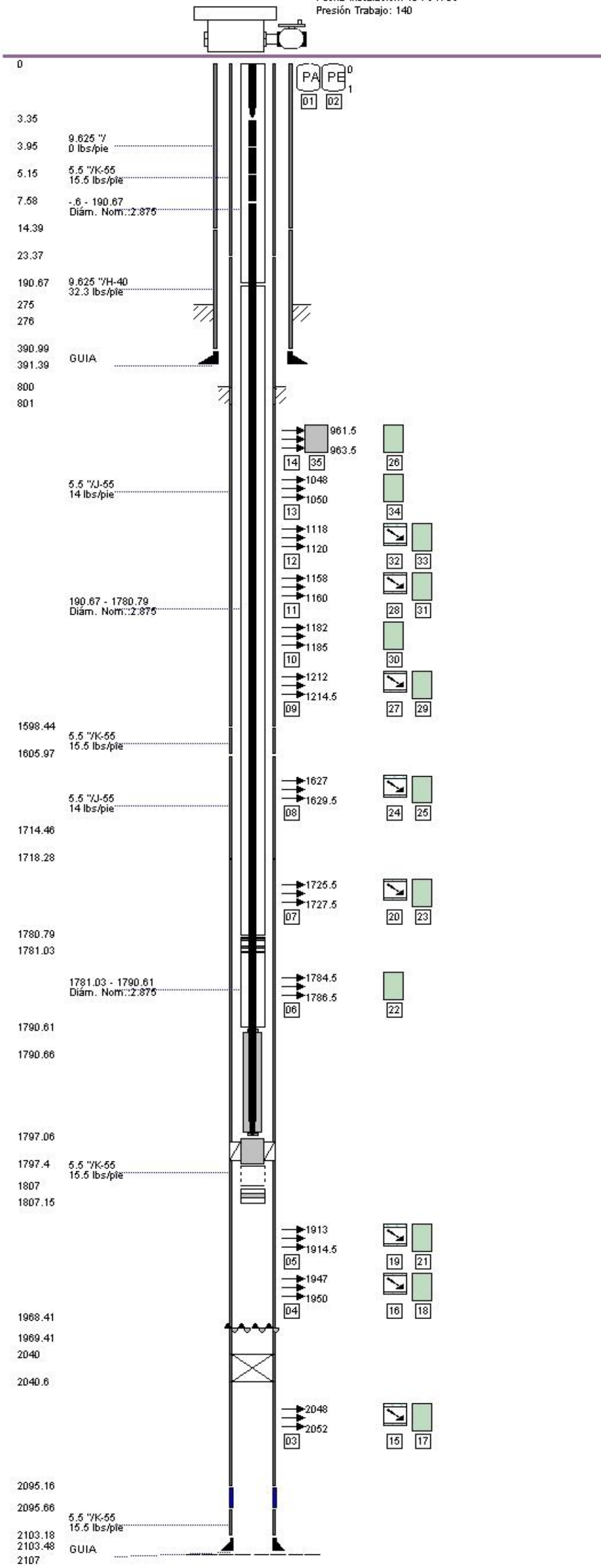
DESGLOSE DE COSTOS DE Repa. Prim.			
DTM y Montar equipo	18,0 hs	0,8 días	\$ 9.475
Acondicionar el Pozo	30,4 hs	1,3 días	\$ 8.808
Perfilar a pozo	0,0 hs	0,0 días	\$ -
Cemento normal	44,0 hs	1,8 días	\$ 12.742
Cemento correctivo	0,0 hs	0,0 días	\$ -
Punzar formación	9,1 hs	0,4 días	\$ 2.374
Estimular	0,0 hs	0,0 días	\$ -
Fracturar	0,0 hs	0,0 días	\$ -
Controlar Arena	0,0 hs	0,0 días	\$ -
Ensayos individuales	63,4 hs	2,6 días	\$ 18.378
Ensayar fractura / estimulación	0,0 hs	0,0 días	\$ -
Ensayo TST	0,0 hs	0,0 días	\$ -
Tomar Muestra PVT	0,0 hs	0,0 días	\$ -
Bajar instalación final	20,5 hs	0,9 días	\$ 5.947
Espera condiciones necesarias	13,0 hs	0,5 días	\$ 2.830
Remunerativos SUMEX+PEET	198,4 hs	8,3 días	\$ 3.664
COSTO DE EQUIPO DE TORRE		8,3 días	\$ 64.218
Camión chupa [usd/día]	1.200	1,0 días	\$ 1.200
Supervisor advisor [usd/mes]	0	8,3 días	\$ -
Insp. Terminación [usd/mes]	6000	8,3 días	\$ 1.653
Pick UP 4x4 [usd/mes]	0	8,3 días	\$ -
Transporte cargas sólidas [usd/mes]	15000	8,3 días	\$ 4.134
Transporte cargas Líquidas [usd/mes]	15000	8,3 días	\$ 4.134
Perfilar pozo	5,0		\$ -
Cementar	5.000		\$ 5.000
Punzar formación	9.166	1	\$ 9.166
Fracturar	25.000	1	\$ -
Controlar Arena	0	1	\$ -
Fluido de Terminación	1.000	1	\$ 1.000
Estimular	10.000	0	\$ -
Fresa	600	1	\$ 600
Alquiler de Motor de Fondo	3.000	1	\$ 3.000
Adicional alquiler de trailer	3939	8,3 días	\$ 543
Scio pileta ecológica	30	8,3 días	\$ 245
COSTO DE SERVICIOS			\$ 30.675
COSTO DE LA Repa. Prim.			\$ 94.893

TARIFARIO DE EQUIPO	
Hora Operativa normal	290
Hs. Stand by con personal	261
Hs. Stand by sin personal	87
Hs. Stand by con personal Clima/mantenim	218
Desmontaje Transporte y Montaje	9475
3a. Exceso de transporte (Km)	42
Tprte de pileta ecológica	174
Servicio de alquiler de trailer	3939
Servicio de pileta ecológica	24
Pago Mensual PEET	4585
Pago Mensual SUMEX	8712
Equipo de referencia	Venver

Tipo de Cambio U\$/ \$ 0,26315

Clase	Código	SubCod	Descripción	Monto en U\$S	Monto en \$	
Ter	IEQ	100	TTE. Y MONTAJE DE EQUIPO	2287	27314	1
Ter	IEQ	120	HS. OPERATIVA NORMAL	11084	132211	9474,7
Ter	IEQ	130	HS. STAND BY C/PERSONAL	573	6843	45874,9
Ter	IEQ	141	PARADO P/FACTOR CLIMATICO	688	8139	2374,1
Ter	IEQ	150	TTE. CARGAS LIQUIDAS	0	20269	2829,7
Ter	IEQ	165	TTE. CARGAS SÓLIDAS (GLOBAL)	0	15708	5333,7
Ter	ILG	110	SUPERVISIÓN	0	6283	4133,7
Ter	ILG	130	ALOJAMIENTO INSPECCION	131	1565	1653,5
Ter	ISV	190	CEMENTO SERVICIO	3500	0	542,8
Ter	ISV	200	CEMENTO MATERIALES	1500	0	3500,0
Ter	IMH	200	ADITIVOS VARIOS	1000	0	1500,0
Ter	ISV	230	PUNZADO SERVICIO	9166,33476	0	1000,0
Ter	ISV	305	PILETA ECOLOGICA	59	708	9166,3
Ter	ISV	310	MOTOR DE FONDO ALQUILER	3000	0	245,1
Ter	ISV	350	ALQUILER FRESAS	600	0	3000,0
Ter	ISV	400	SERVICIOS VARIOS	3664	0	600,0
Totales				37252	219040	3664,4
Total en U\$S				94.893		1

Tipo: PRODUCTOR PETROLEO
 Proveedor: ABB VETCO GREY ARGENTINA S.A.
 Fecha Instalación: 10-APR-05
 Presión Trabajo: 140



YPF	POZO: <u>EA-670</u> EQUIPO: <u>KEY-08</u>	OBJETO: <u>Aumentar Producción</u> PEP: <u>RS1EC.10Y4.58.R0006</u>	
Est.Actual:		OI:	
PROYECTO: Reparaciones de Primaria 2009		COSTO DRILLING ABC US\$: 124.669,00	
CABLE Cta FRAC Acido M.Fdo.		PRESUPUESTO US\$: 94.892,74	
GEOLOG SAI SLB SLB CHRISTENSE		ACTUAL US\$: 48.093,00	
FLUIDO: AGUA DULCE CON MARCAT 0,1% (MARBAR)			

Inicio: 20/11/2009 Terminó: 29/11/2009	Casing	Transporte equipo desde el pozo EN-634, sobre 25 Km. Monto equipo completo. Saco Instalacion de Producción (Varillas en single. Tbg a la torre) Bajo Fresa 120 mm hasta 1938 m. Lavo relleno hasta 2040 m Tpn N. Saco hta. Cia Geolog punzo con cañon 4" - 4 TPP - 32 Gr. 1973,0/75,0 - 1961,0/62,0 - 1719,0/22,0 - 1559,0/61,0 - 1535,0/37,0 - 1158,0/60,0 - 1152,0/54,0 - 1147,0/49,0 Bajo Tpn y Pkr, ensaya por pistoneo según se indica con las letras: (A) - (B) - (C) - (D) - (E) - (F) Saca PKR para cambiar y baja nuevamente Cia SAI cementa capa 1719,0/22,0 con 20 bls. Baja fresa + MDF rota cemento desde 1685 m hasta 1722 m Baja packer realiza hermeticidad de capa cementada 1719,0/22,0. OK Baja instalacion estator + tubing Baja rotor + varillas. Desmonta equipo
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Prox: Stand By (EA-48)	
------------------------	--

	Factor 30,0%
--	---------------------

Hs de Formación	Datos		Q	Bruta Estimada	Neta Estimada
	Q	IT			
6					
4					
6	2400	100%	57,60	17,28	
5	600	100%	14,40	4,32	
3	156	100%	3,74	1,12	
Total			75,744	22,723	0,000

Nota: Instalación del pozo: C. Dent. + filtro + 2 tbg + ancla + estator + 1 tbg + BHD + 187 tbg Rotor + 234 Var. 7/8" + 3 trozos 1" + Vastago 1,25"	
--	--

Collar: 2.095,16 Zap.: 2.103,18 PF: 2110,20	REFERENCIAS Tapón Fijo CSG Roto
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- o) Montar Equipo y realizar check list.
Antes de montar controlar presiones estaticas de directa e inversa.
- o) Retirar instalación existente especificada en solapa "Instalación"
Sacar varillas desarmando y revisando el estado
Sacar TBG. Si los mismos estan en buen estado, consultar reemplazo. Si no se reemplazan sacar a la torre. Caso contrario sacar desarmando.
- o) Bajar cañería y calibrar con fresa Ø 120 mm hasta 2040 m.
Circular una capacidad de CSG.

- o) Punzar con cañón 4" 0-90° 32gr previa correlación con neutrón las siguientes capas:

	Capa	Carga	TPP	Fase	Esp (m)
Punzar	1973,0/75,0	32 gr		4 0-90°	2
Punzar	1961,0/62,5	32 gr		4 0-90°	1,5
Punzar	1719,0/22,0	32 gr		4 0-90°	3
Punzar	1559,0/61,5	32 gr		4 0-90°	2,5
Punzar	1535,0/37,0	32 gr		4 0-90°	2
Repunzar	1158,0/60,0	22 gr		2 0-90°	2
Punzar	1152,0/54,0	32 gr		4 0-90°	2
Punzar	1147,0/49,0	32 gr		4 0-90°	2

- o) Bajar TPN y PKR, y ensayar por pistoneo las capas de la siguiente manera **A), B), C), D) y E)** como se indica en la solapa "Esquema"
En capas que resulten SE, probar admisión y luego reensayar.
En caso de ser gas medir presiones y tomar muestra.
En caso de extraer hidrocarburo tomar muestra para análisis y enviar a Epsilon.

- o) Bajar instalación final, a definir por Ing de producción
Guardia de Ing Manantiales Behr: 155934862.

- o) Desmontar equipo completo.

EQUIPO: PI-222

POZO: EA-670

DISTRITO N°: 6
PROYECTO : DRILL 150

BAT: CIA DE CABLE: Schlumberger
CIA DE FRACTURA: Schlumberger

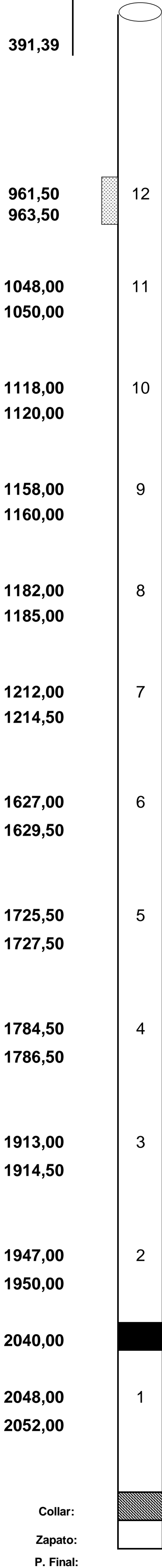
ESQUEMA DE TERMINACIÓN

OBJETIVO: Poner en Producción
ESTADO: Productivo

INICIO: 03-abr-05
TERMINO: 11-abr-05

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

ACTUAL: DTM al pozo Gra-627



CAUDAL	FLUIDO	NIVEL	ANALISIS				SAL	Hs Ensayo	QB	QN
			I-T	DEN	Temp	A/SEP				
Posible fractura p/control de arena										
								4		
Gas seco p/ 50mm PD: 7Kg/cm2 ; p/25mm PD: 9 Kg/cm2 ; p/13mm 12Kg/cm2 PE: 19 Kgcm2 Est. en 15'										
Ctó c/25 Bls. PI: 500 ; PF: 950 ; PC: 15600 PSI Hermeticidad positiva										
1600	Pet.	855	12	0,937	34	12	5.8 /PH 9	5	11,52	10,14
300	Pet.	998	6	0,921	20	5	4.6 /PH-9	5,5	2,16	2,03
RF c/1800 psi										
Aporta gas c/Pet. Muy viscoso no sepuede pistonear, por semi surgencia, y ahogarse										
Circula con agua caliente ensaya con el mismo resultado anterior										
400	Ag S/R	1040			25		3.5/ PH-8		2,88	0
RF c/1800 psi										
	S/E							2,5		
250	Pet. Visc.	1520	6	0,969	30	5	4.6 PH-11	6	1,80	1,69
RF c/1900 psi										
380	Petróleo	1582	20	0,950	30	18	4,09/PH:9	6	2,74	2,19
1000	Pet. Viscoso	1610	7	0,950	30	8	4,6/PH:9	6	7,20	6,70
RF c/2800 psi										
350	Agua S/R	1785			35		2,9/9	6,5	2,52	0
RF c/2200 psi										
1600	Pet. Viscoso	1750	69	0,948	15	68	4,09/9	7	11,52	3,57
Tapón "N" con D. Bayler										
RF c/2800 psi										
2400	Agua S/R	1850			35		3,5/8	6	17,28	0

Collar: 2095,66
Zapato: 2103,48
P. Final: 2110,20

59,62 26,32

COMPANIA: YPF S.A.

POZO: YPF.Ch.EA-695

CAMPO: EL ALBA

PROVINCIA: CHUBUT

PAIS: ARGENTINA



COMBINADA

ESCALA: 1/200

AIT-LDL-CNL-CAL
MDT

Elev.: B.V. 666.45 m
N.T. 661.9 m
M.R. 666.15 m

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

UWI: AR0100006830
Equipo PI-245
Longitud X: 4.949.913,10
Latitud Y: 2.584.937,96

Profundidad No. 28-Jun-2006

Prof. Perforador 1

Prof. Registro 1800 m

Prof. Lectura 1801.3 m

Prof. Lectura 1798.9 m

Prof. Lectura 349.7 m

Prof. Lectura 9.625 in @ 350.44 m

Prof. Lectura 349.7 m

Prof. Lectura 8.750 in

Prof. Lectura PHPA

Prof. Lectura 1.17 g/cm3

Prof. Lectura 6.5 cm3

Prof. Lectura 55 s

Prof. Lectura 8.5

Prof. Lectura PILETA

Prof. Lectura 4.690 ohm.m @ 7 degC

Prof. Lectura 3.880 ohm.m @ 7 degC

Prof. Lectura 6.700 ohm.m @ 7 degC

Prof. Lectura PRENSA

Prof. Lectura PRENSA

Prof. Lectura 1.472 @ 70

Prof. Lectura 70 degC

Prof. Lectura 28-Jun-2006

Prof. Lectura 28-Jun-2006

Prof. Lectura 23:00

Prof. Lectura 8116 ARCS

Prof. Lectura A. AMID / D. ICHAZU

Prof. Lectura ANIBAL SILVEIRA

Prof. Lectura

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: 30-JUN-2006 10:19:37

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B Serial Number: 4858 Calibration Date: 12-Nov-2004 Calibrator Serial Number: 31 Calibration Cable Type: 7-46P Wheel Correction 1: -4 Wheel Correction 2: -4	Type: CMTD-B/A Serial Number: 1689 Calibration Date: 14-Feb-2006 Calibrator Serial Number: 1028 Calibration Gain: 1.28 Calibration Offset: 41.00	Type: 7-46P Serial Number: 77353 Length: 3000.15 M <hr/> Conveyance Method: Wireline Rig Type: LAND

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	71.00 M
Rig Up Length At Bottom:	71.00 M
Rig Up Length Correction:	0.00 M
Stretch Correction:	2.10 M
Tool Zero Check At Surface:	0.00 M

Depth Control Remarks

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

LIMITACION DE RESPONSABILIDAD

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

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

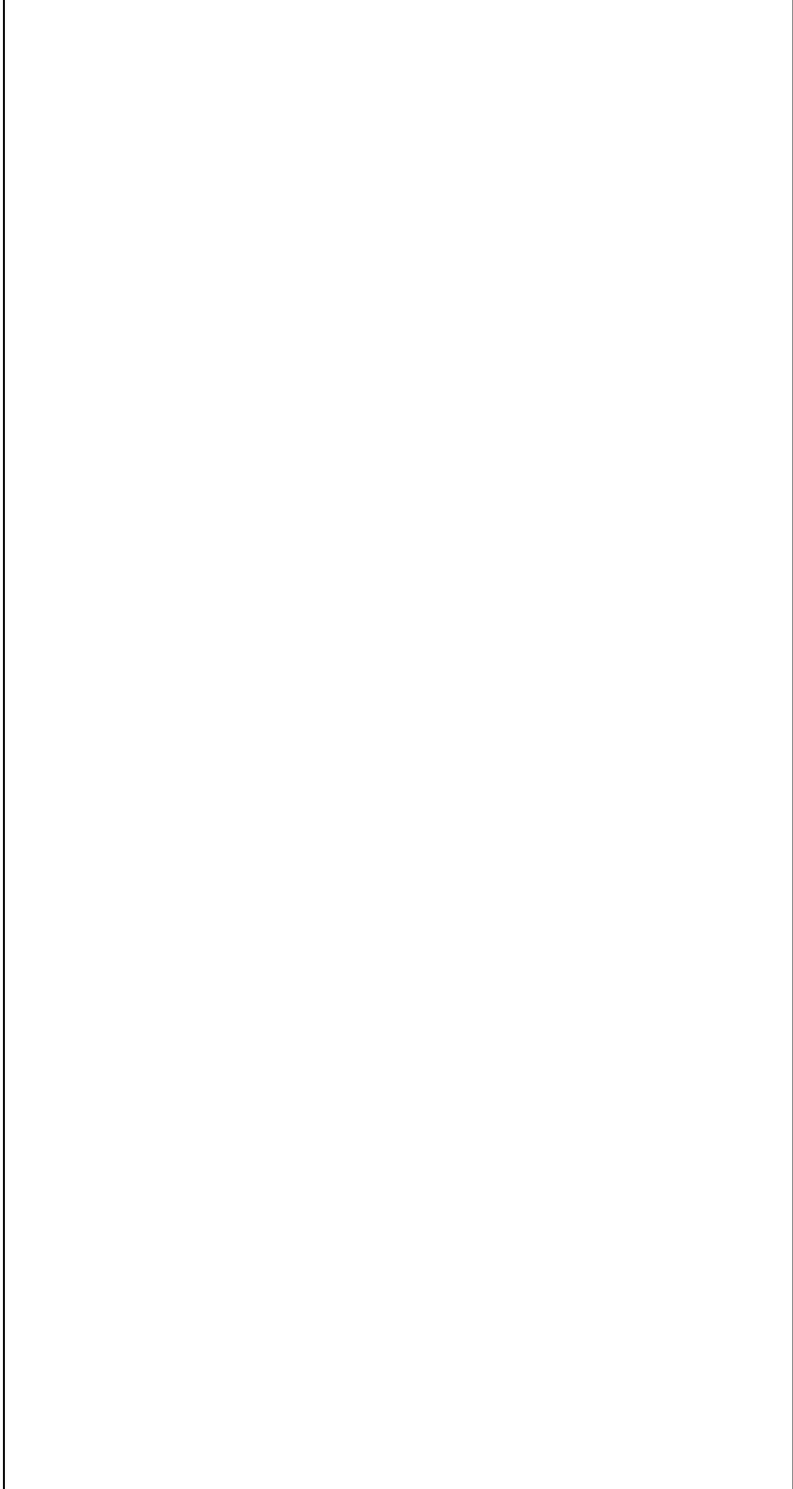
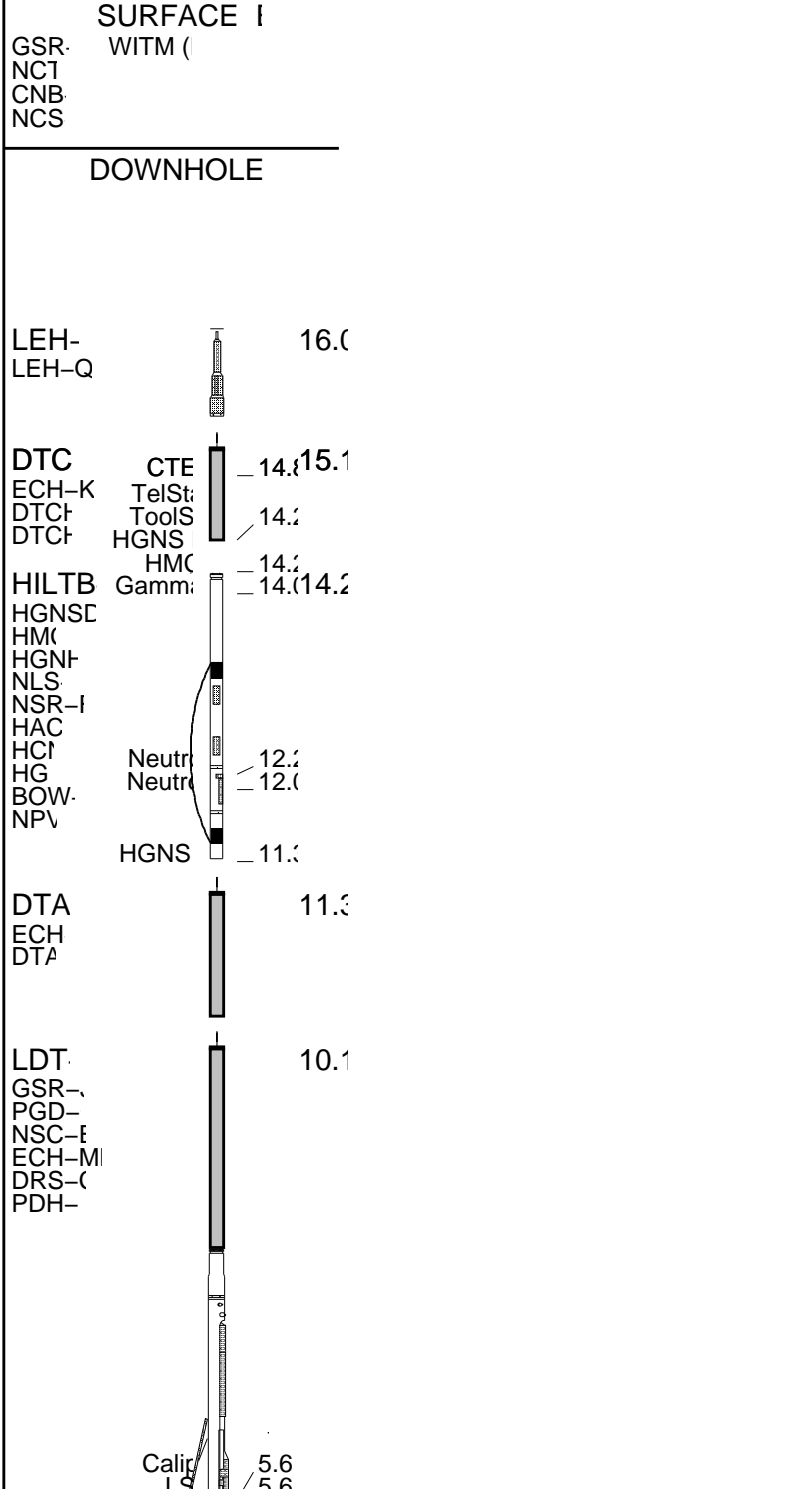
OBSERVACIONES: CORRIDA # 1	OBSERVACIONES: CORRIDA # 2
1. Primera carrera en el pozo y perfil de referencia de profundidad.	
2. Esquema del pozo segun datos del perforador.	
3. Herramienta corrida segun diagrama.	
4. AITH corrida descentralizada utilizando standoffs de 1,5".	
5. Maxima desviacion del pozo segun datos del perforador = 1 deg	
6. Maxima temperatura registrada 70 degC, tomada con termometro en punta de herramienta.	
7. Datos adicionales del lodo: Cl = 350 ppm. Ca = 80 ppm.	
8. Ultima circulacion termino el dia 28-Jun-06 a las 12:15 hs y duro 1 hora.	
9. FPFI = DPFI, FNUM = 0,81 y FEXP = 2 utilizados para el calculo de RWA.	

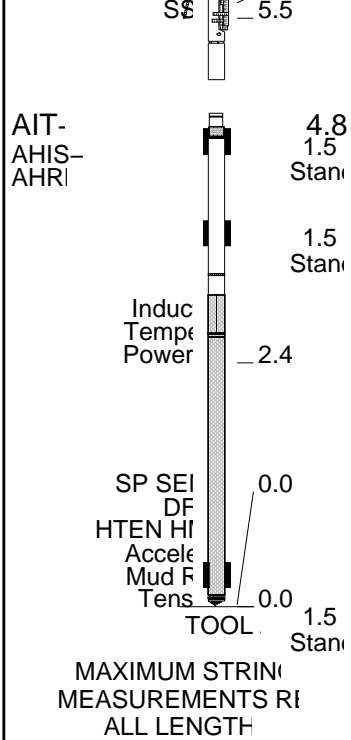
10. LDL y CNL corridos hasta 900 m a pedido del cliente.

CORRIDA #1			CORRIDA #2		
ORDEN DE SERVICIO:			ORDEN DE SERVICIO:		
VERSION DEL PROGRAMA:			VERSION DEL PROGRAMA:		
NIVEL DEL LODO:			NIVEL DEL LODO:		
14C0-302			0 m		
INTERVALO REGISTRADO	COMIENZO	FINAL	INTERVALO REGISTRADO	COMIENZO	FINAL

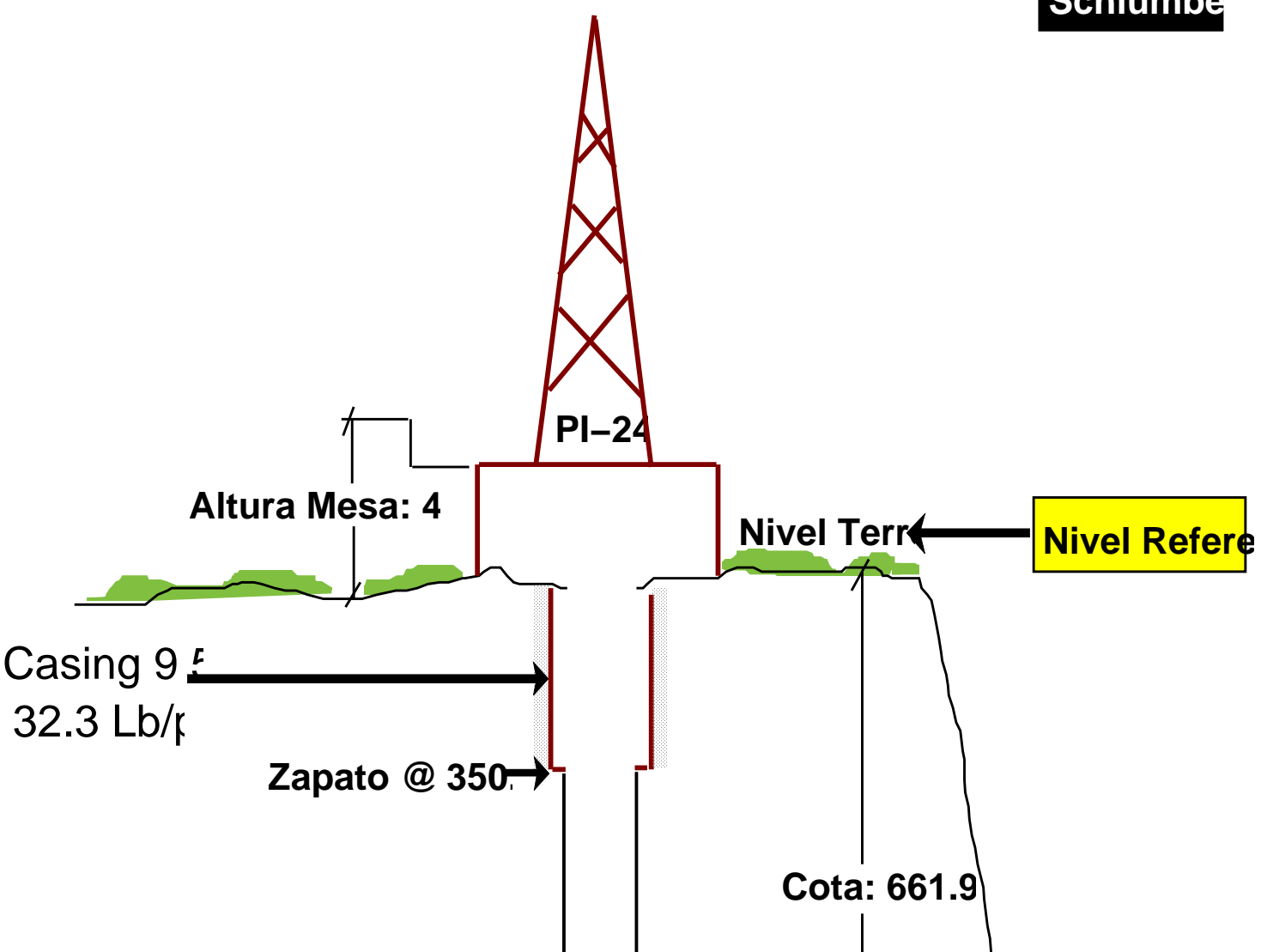
DESCRIPCION DEL EQUIPO

CORRIDA # 1 CORRIDA # 2

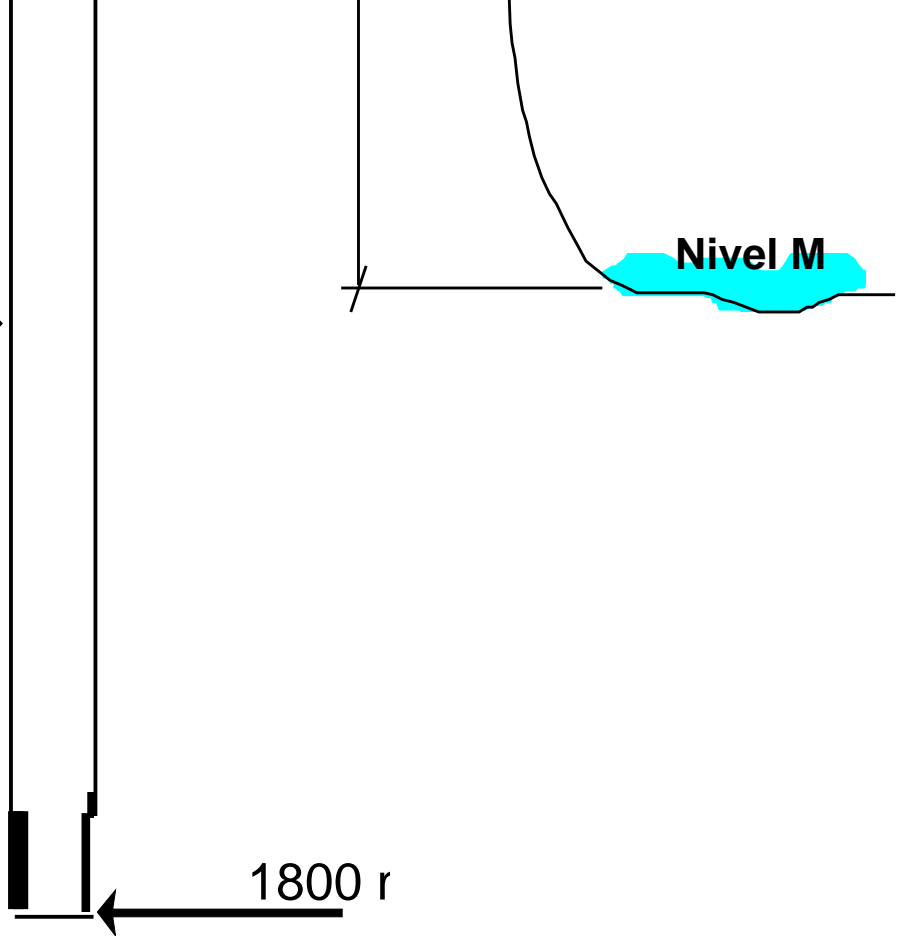




YPF.Ch.EA



Trepano
8 3/4" @



Schlumberger

TRAMO PRINCIPAL

MAXIS Field Log

Input DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_025LUP	FN:24	PRODUCER	30-Jun-2006 08:23	1806.9 M	291.0 M
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Output DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_089PUP	FN:42	PRODUCER	30-Jun-2006 18:52	1807.0 M	345.0 M
CUST1	AIT_LDL_TLD_MCFL_089PUC	FN:43	CUSTOMER	30-Jun-2006 18:52	1807.0 M	345.0 M
CUST2	AIT_LDL_TLD_MCFL_089PUC	FN:44	CUSTOMER	30-Jun-2006 18:52	1807.0 M	345.0 M

Integrated Hole/Cement Volume Summary

Hole Volume = 58.27 M3
 Cement Volume = 36.02 M3 (assuming 5.50 IN casing O.D.)
 Computed from 1801.2 M to 349.8 M using data channel(s) CALI

OP System Version: 14C0-302

Changed Parameter Summary

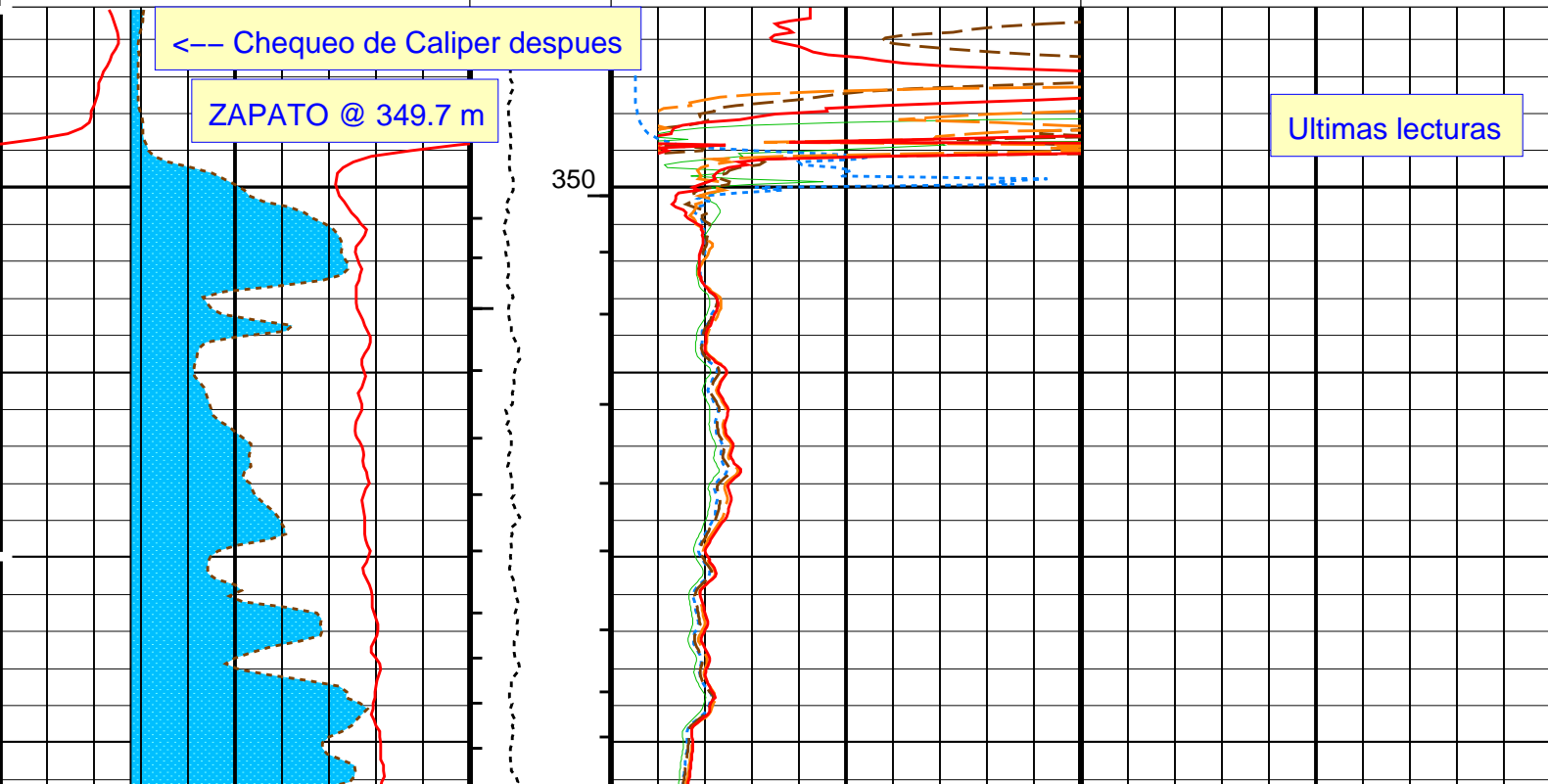
DLIS Name	New Value	Previous Value	Depth & Time
SPDR	0 MV/M	0 MV/M	1807.0 18:52:21
	0.03921 MV/M	0 MV/M	1300.0 18:53:18
	-0.25 MV/M	0.03921 MV/M	1044.9 18:53:47
	0 MV/M	-0.25 MV/M	1024.9 18:53:49

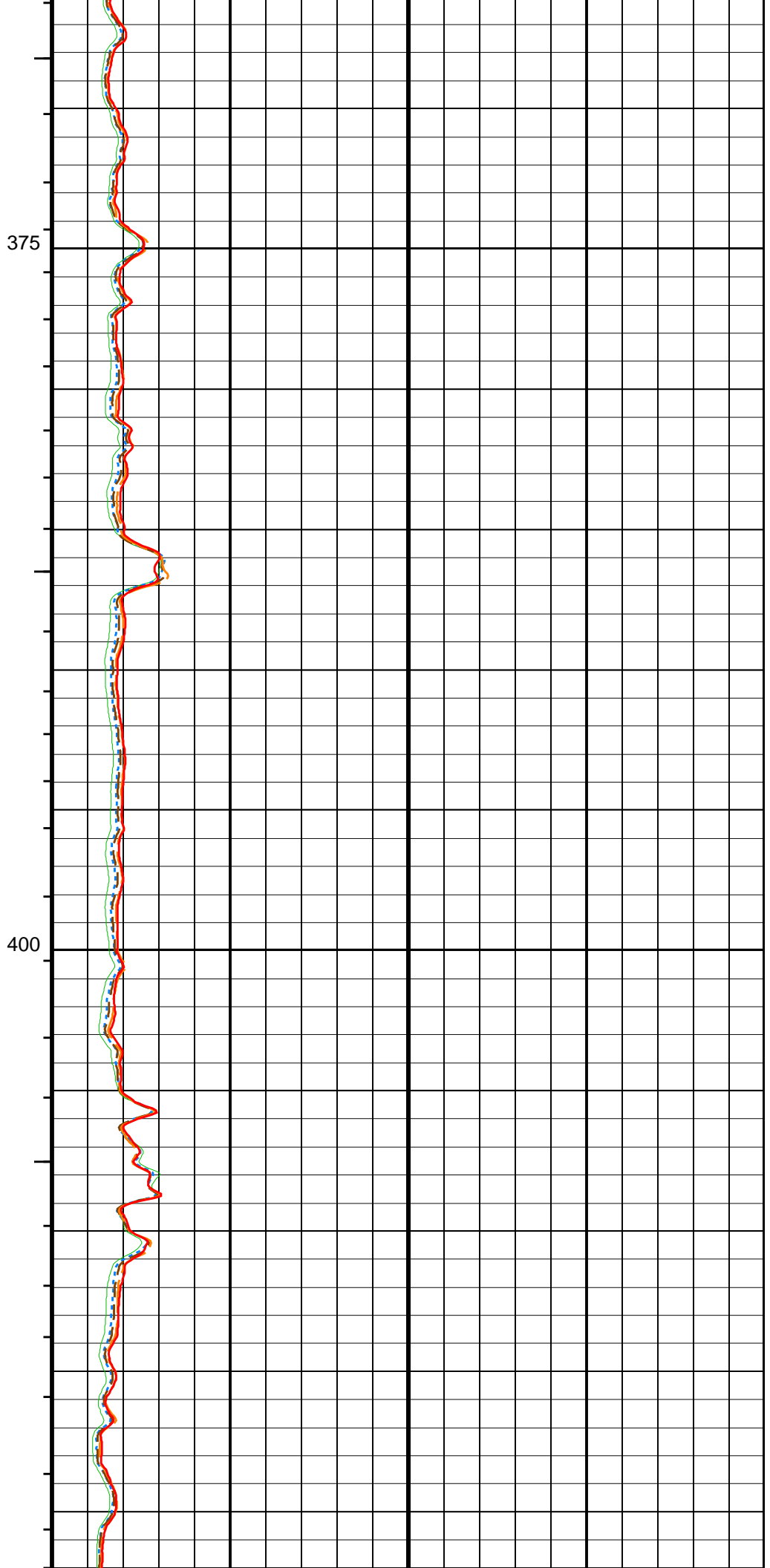
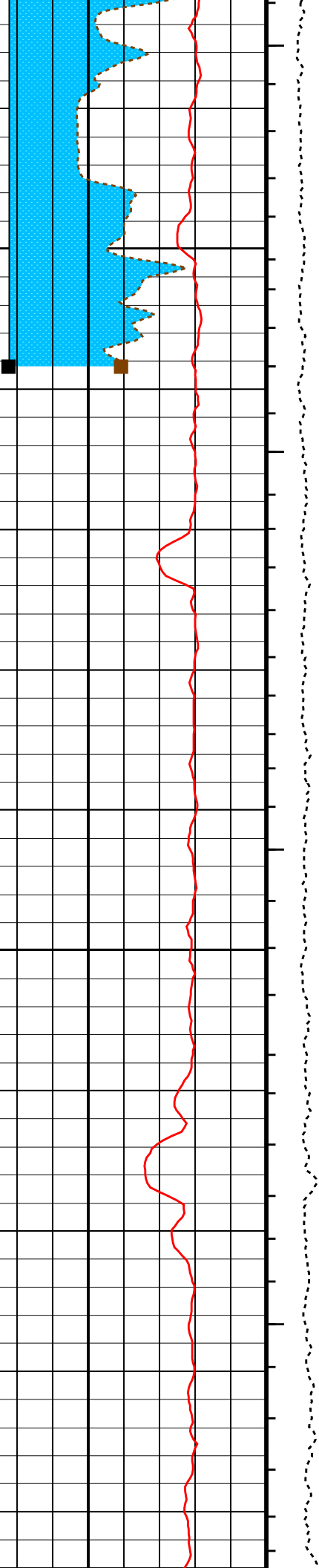
PIP SUMMARY

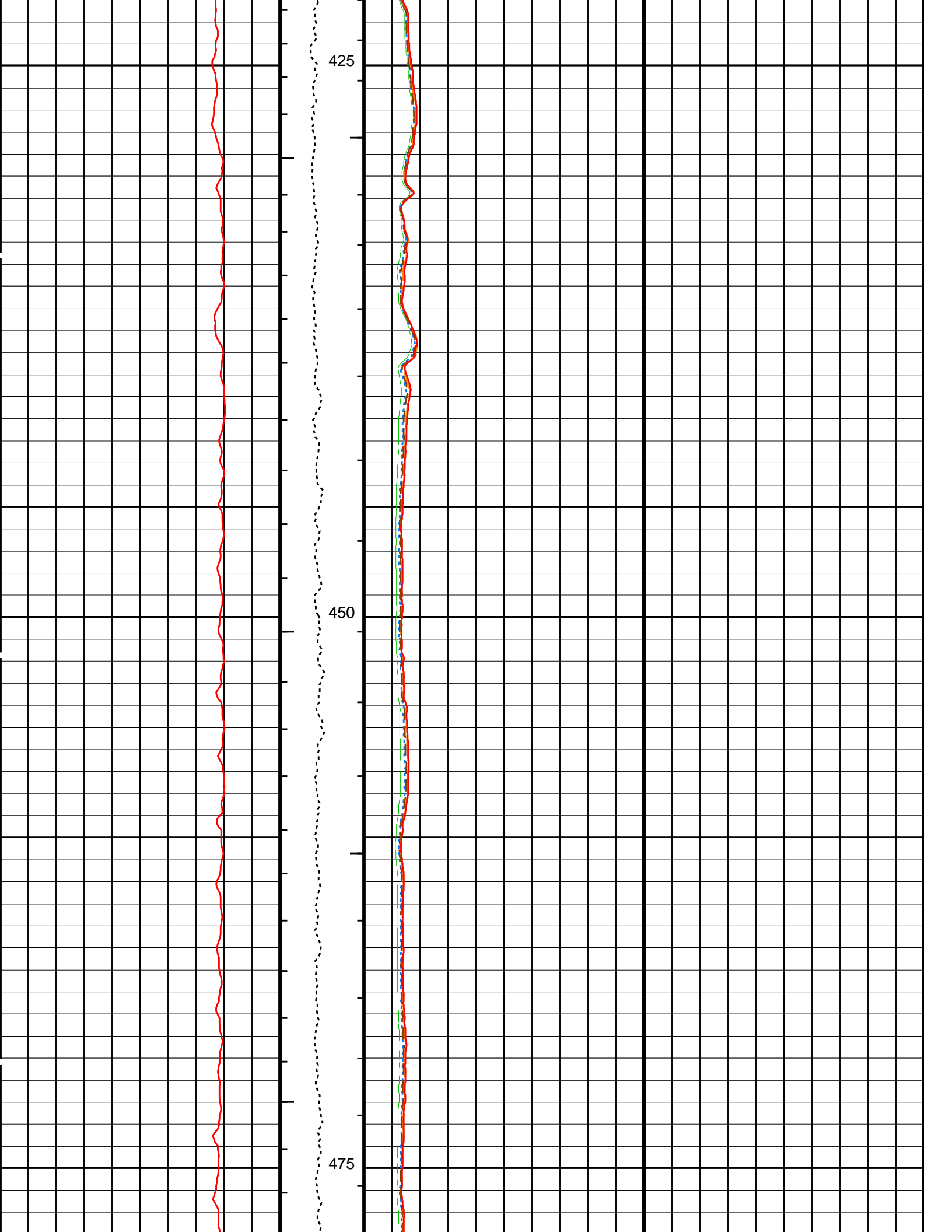
- ┆ Integrated Hole Volume Minor Pip Every 0.1 M3
- ┆ Integrated Hole Volume Major Pip Every 1 M3
- ┆ Integrated Cement Volume Minor Pip Every 0.1 M3
- ┆ Integrated Cement Volume Major Pip Every 1 M3

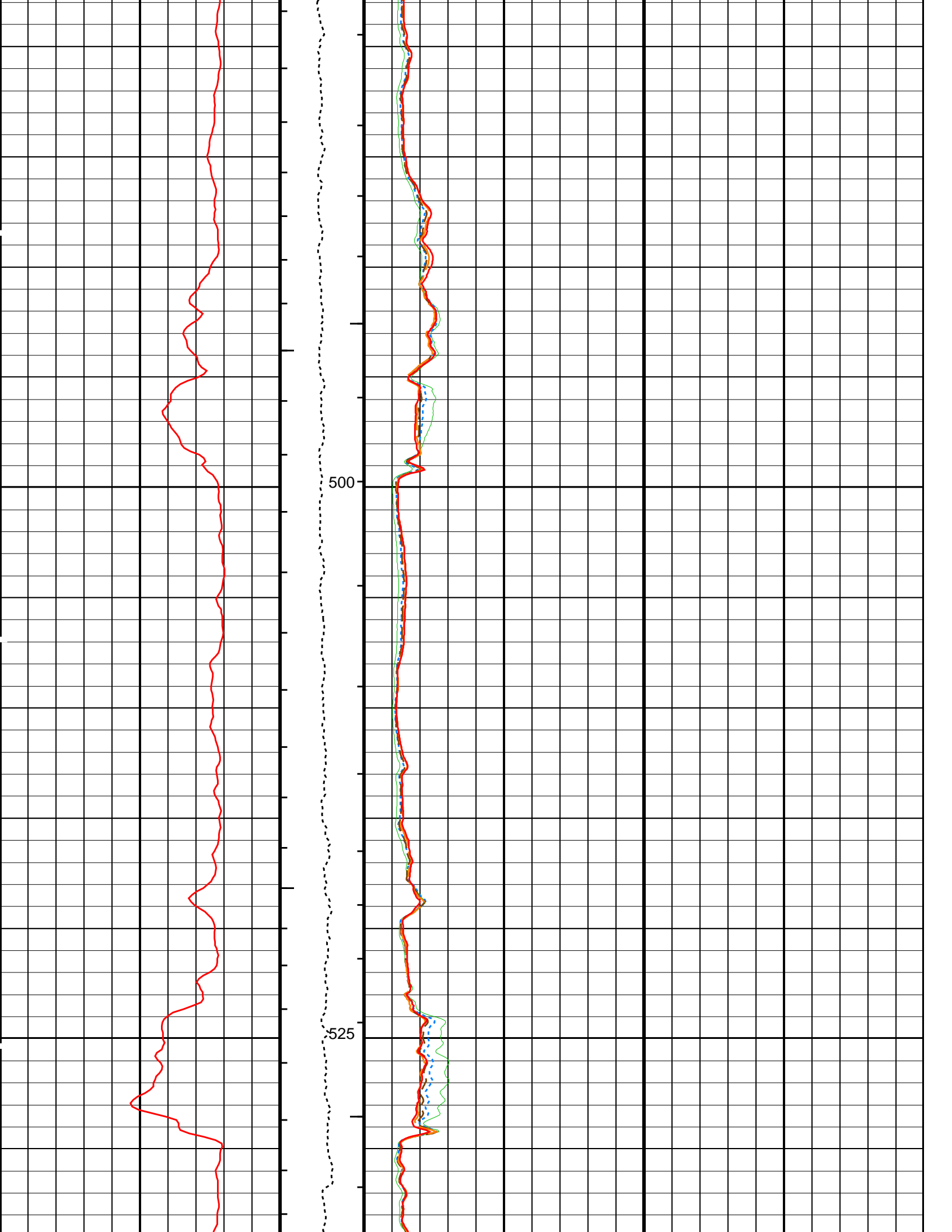
Time Mark Every 60 S

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

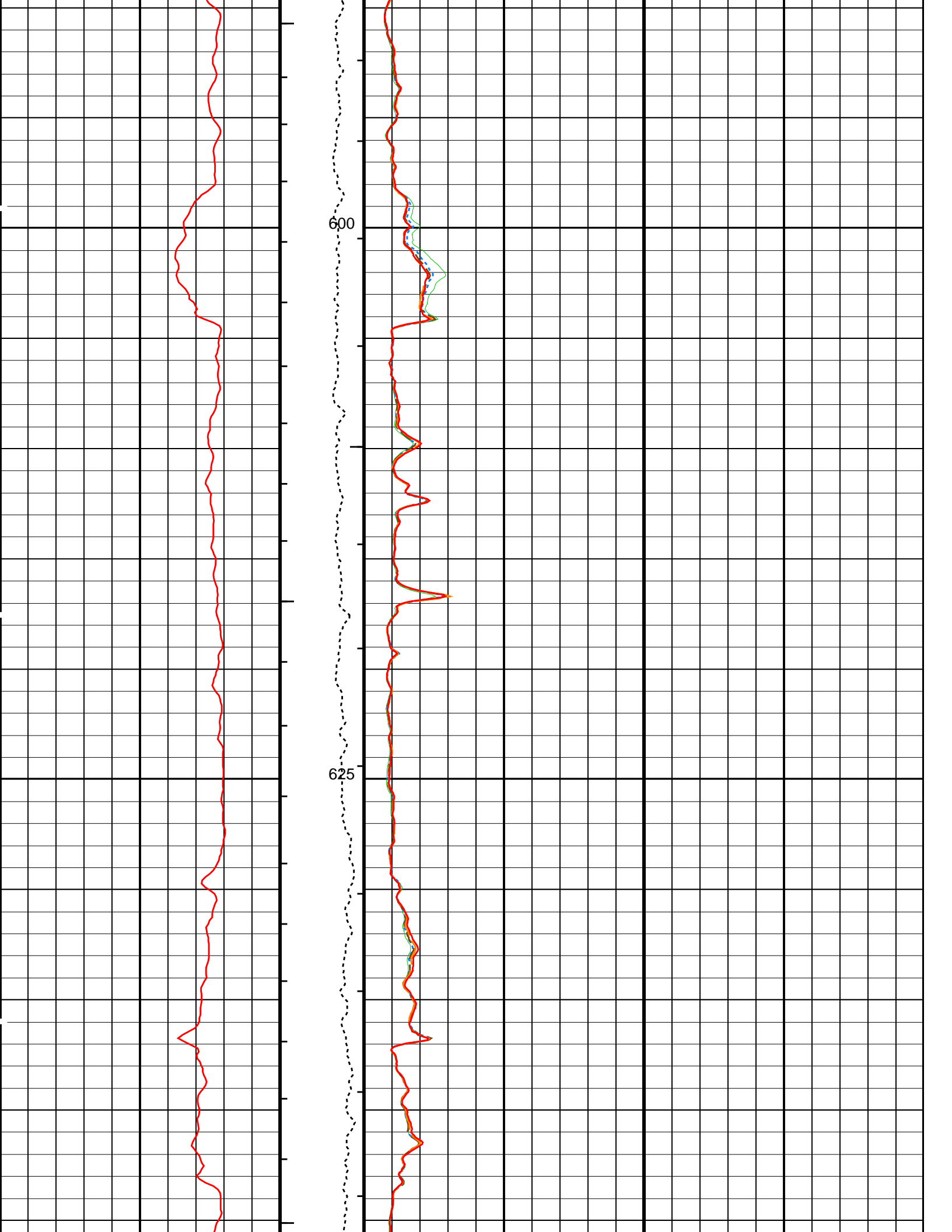


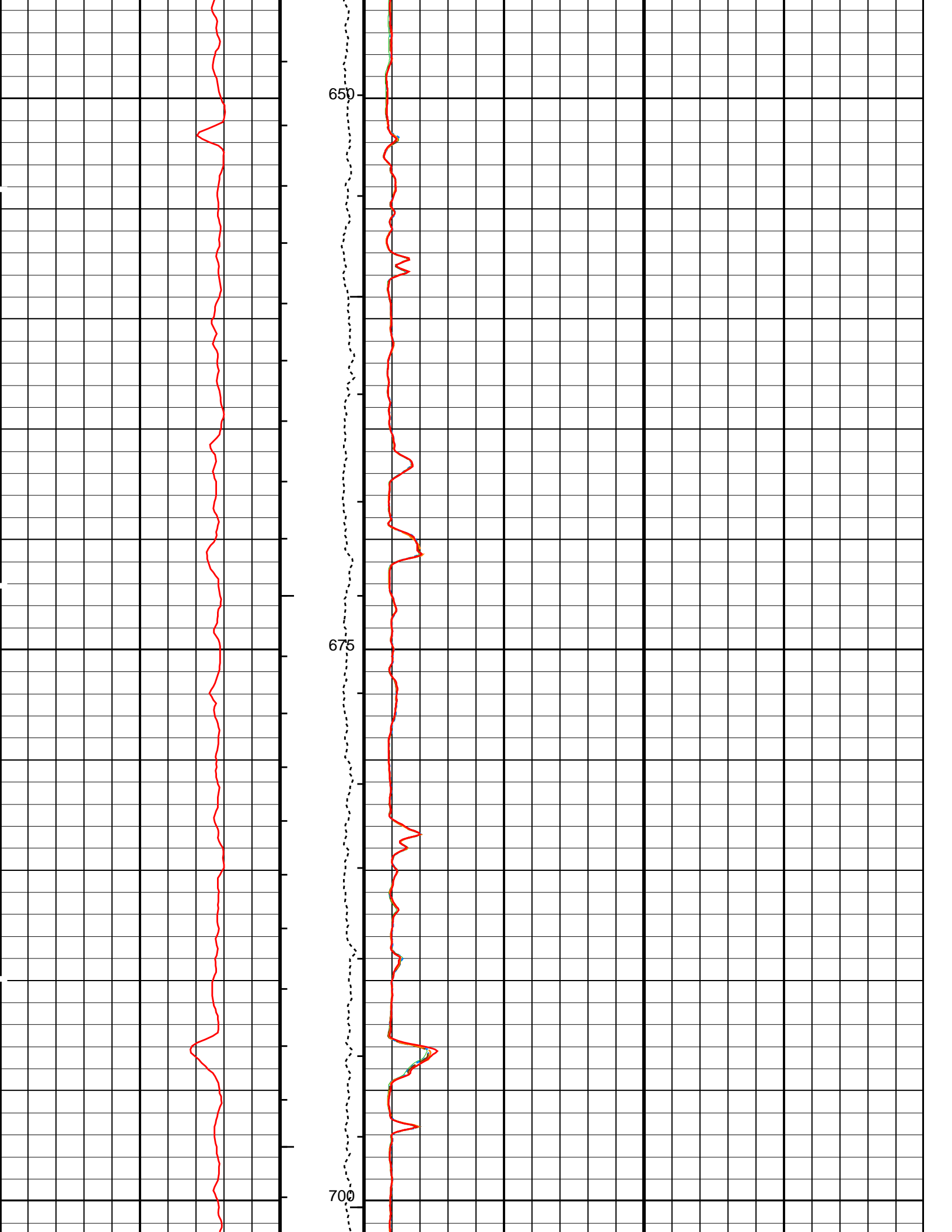


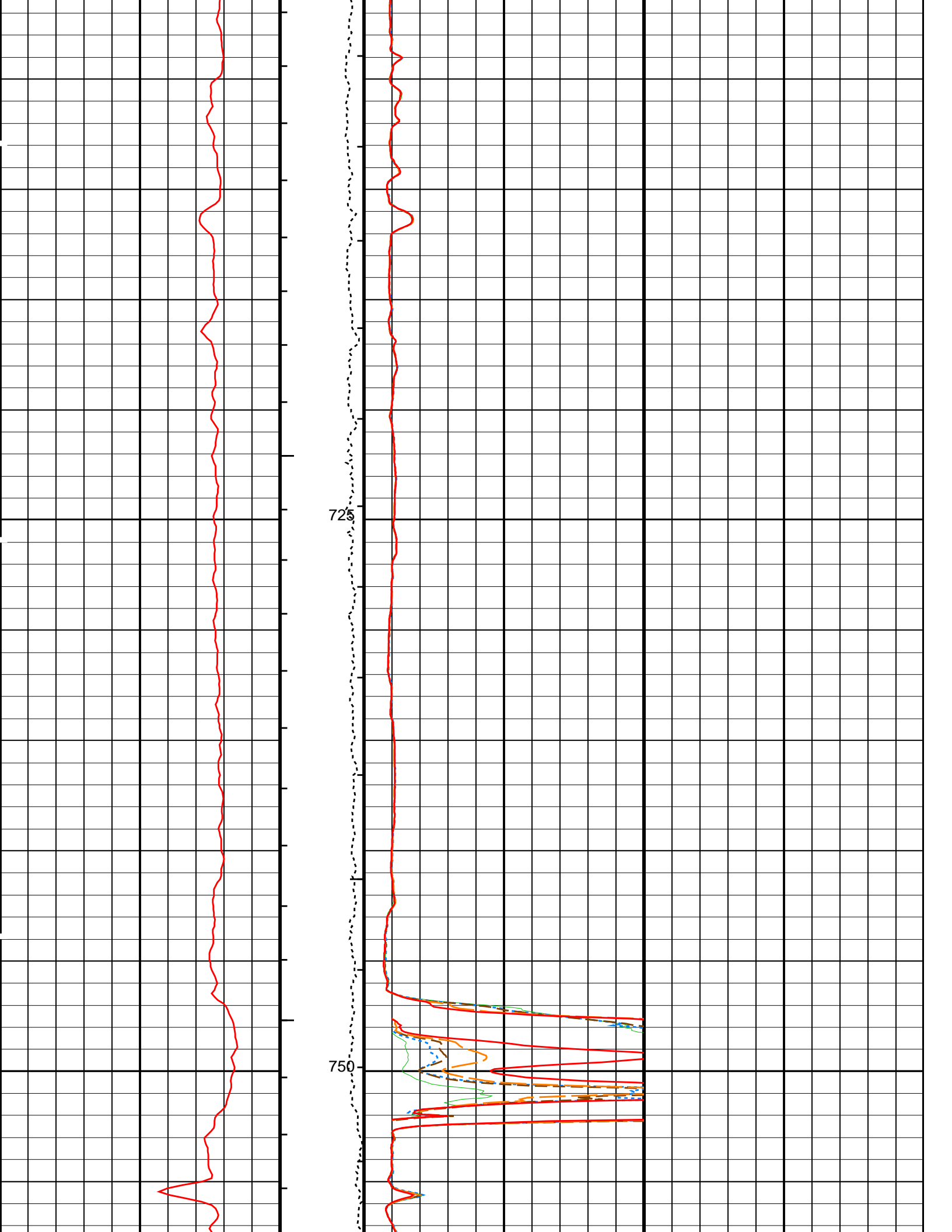


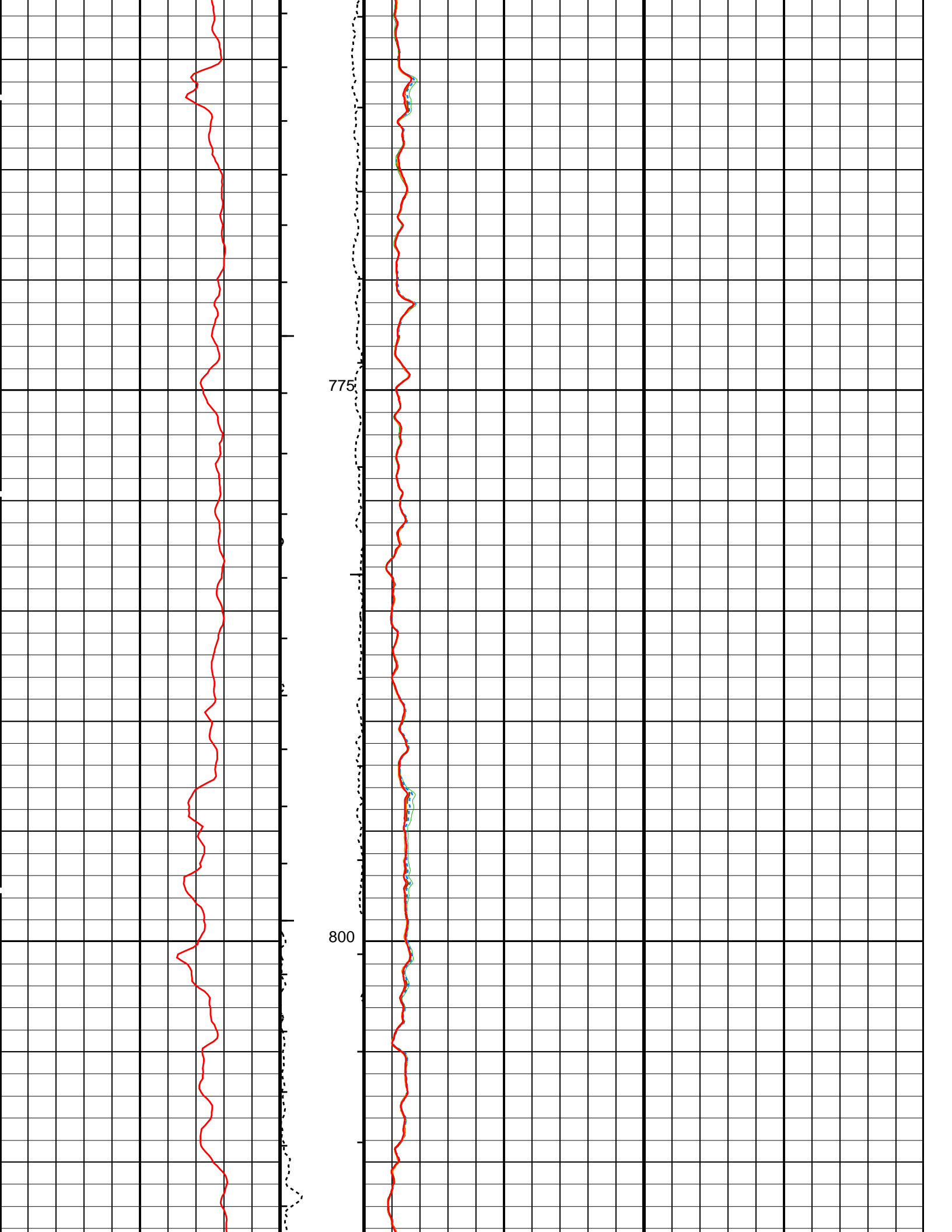


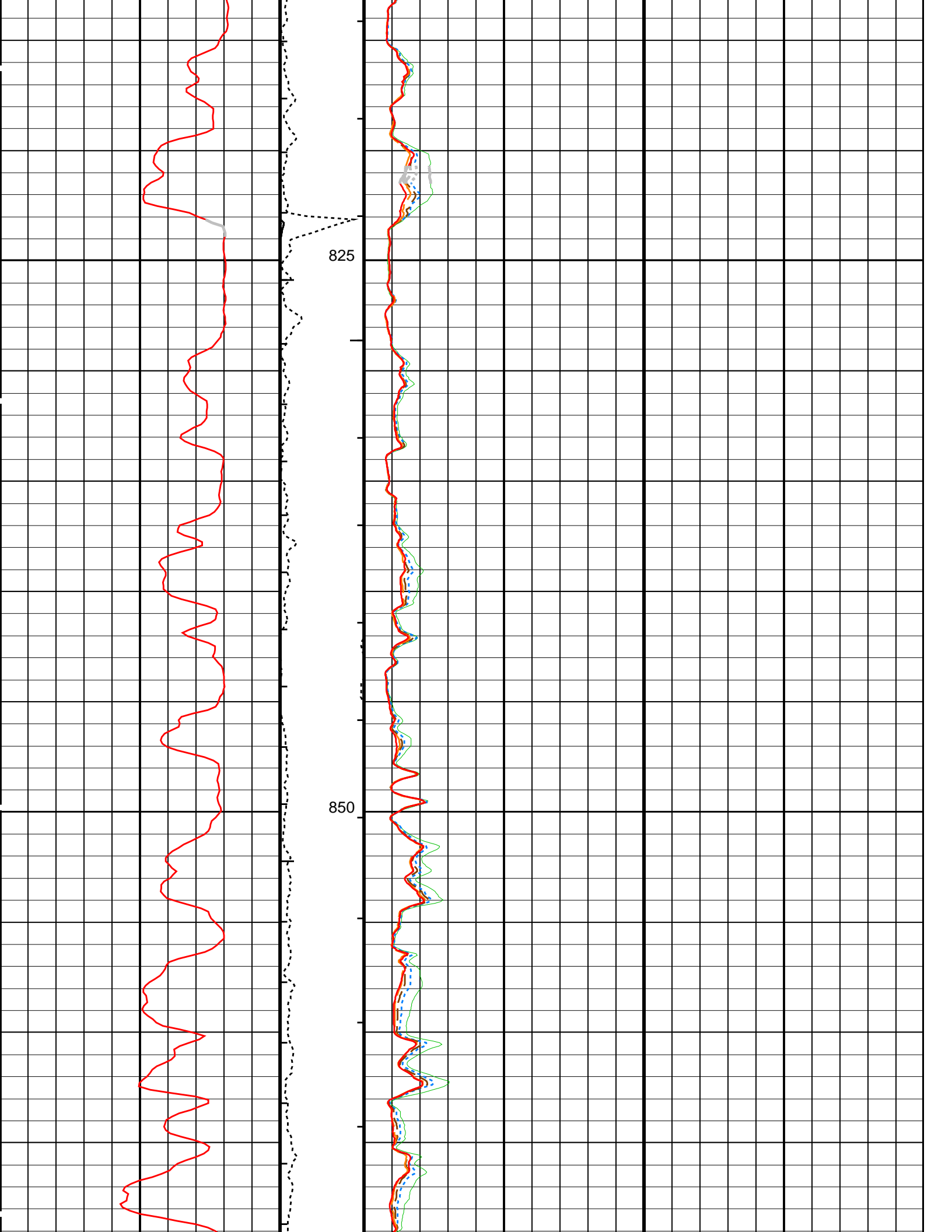


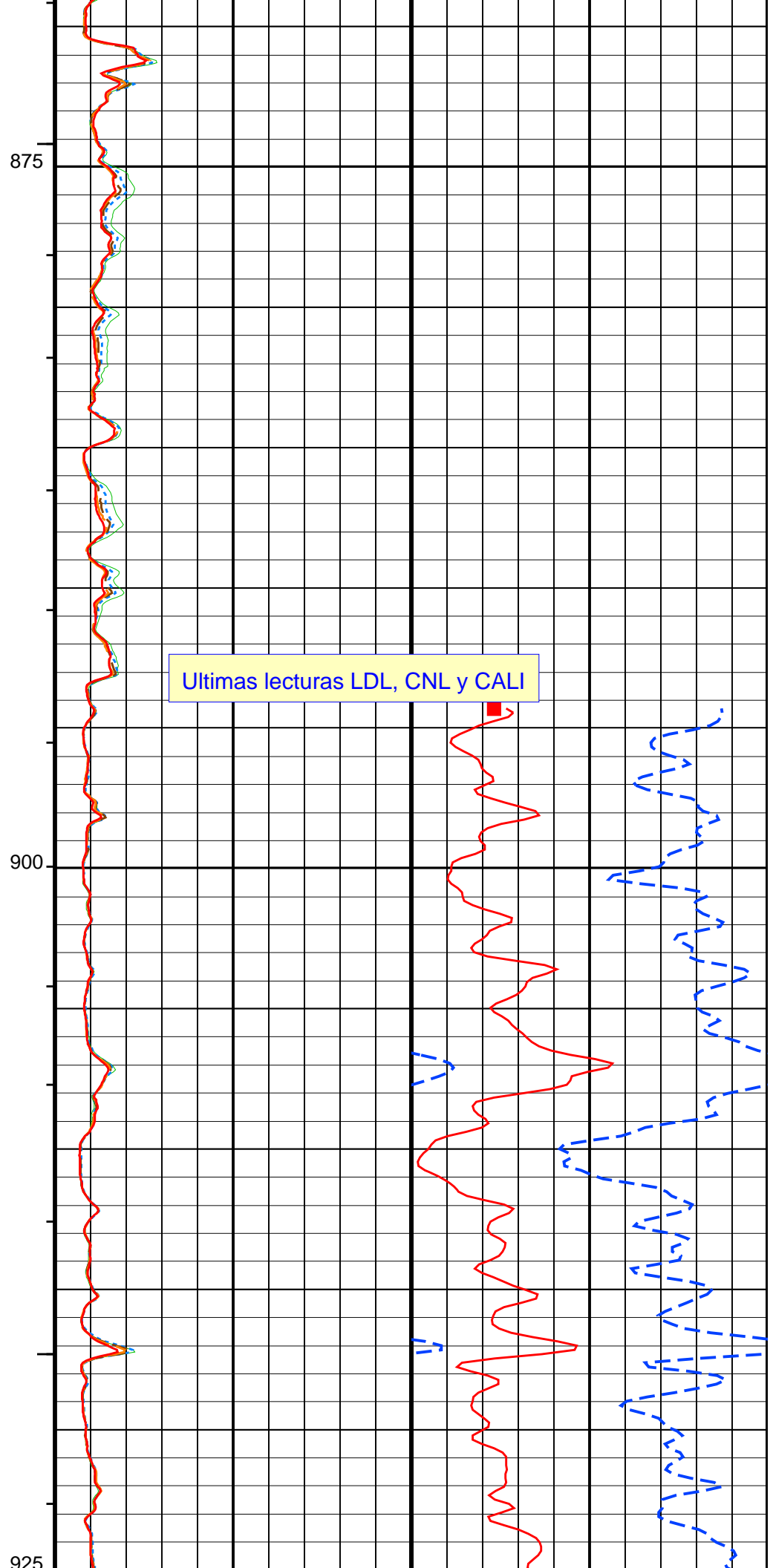
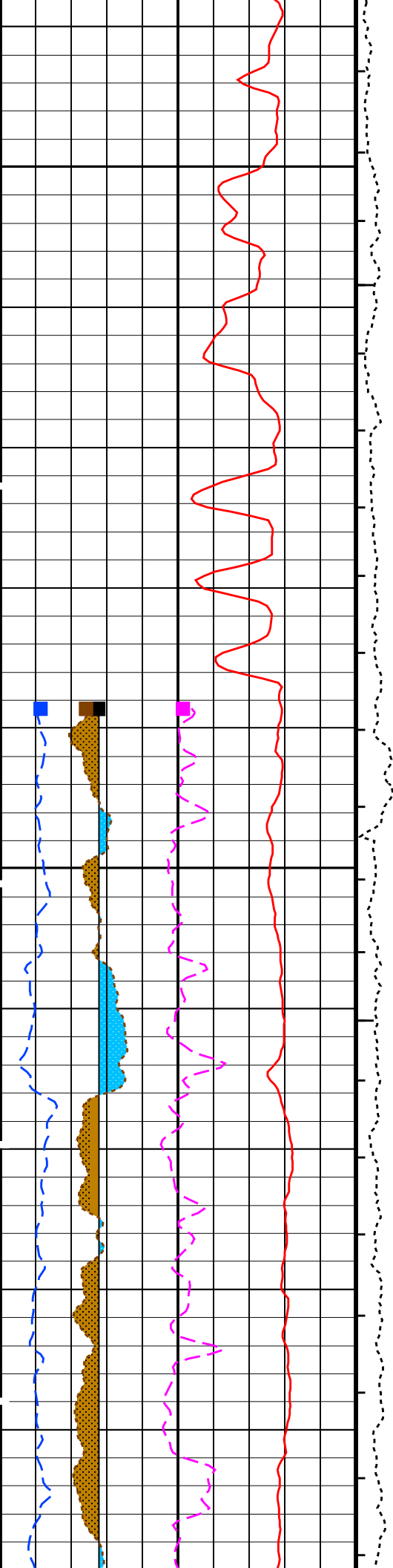


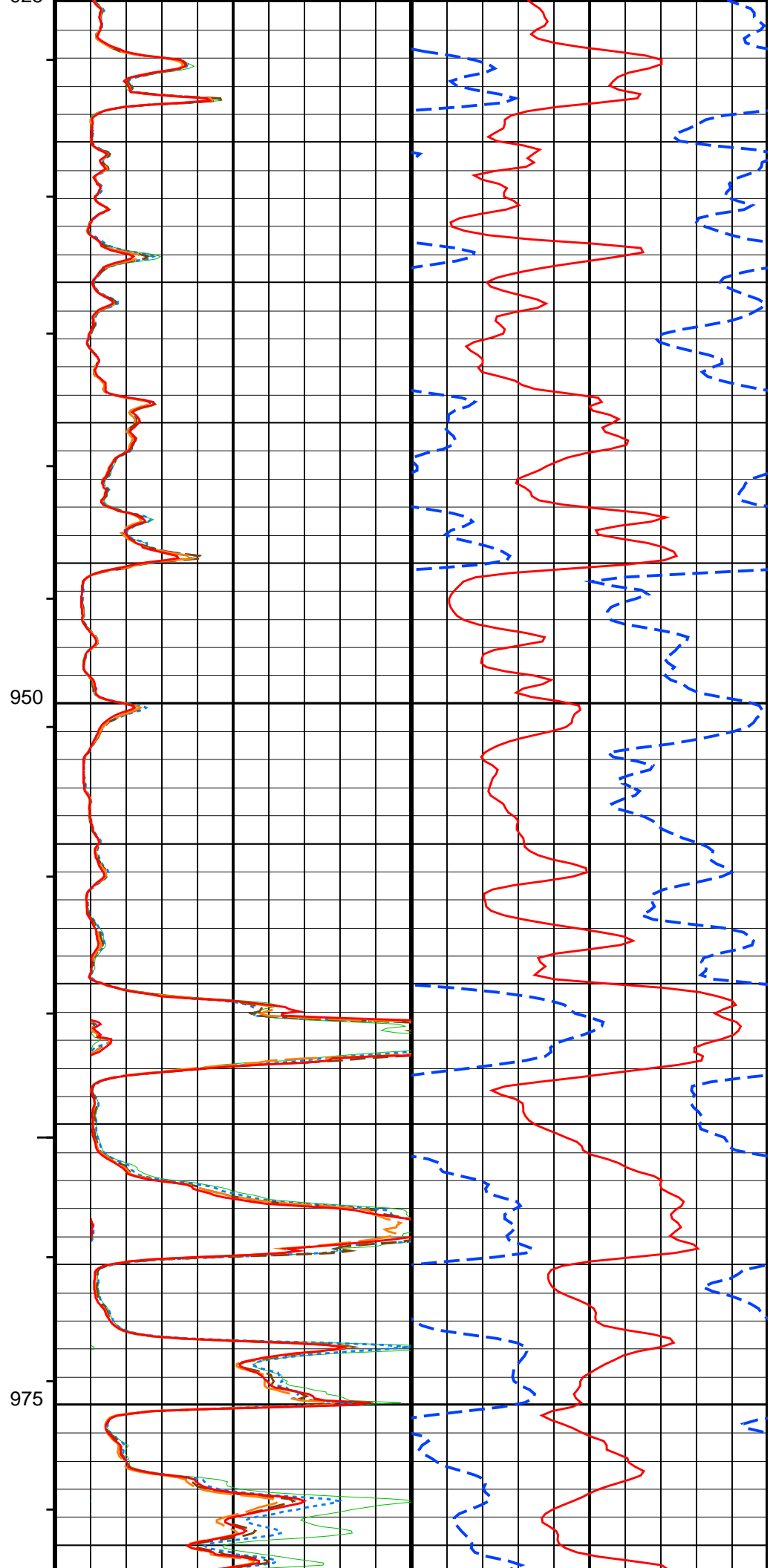
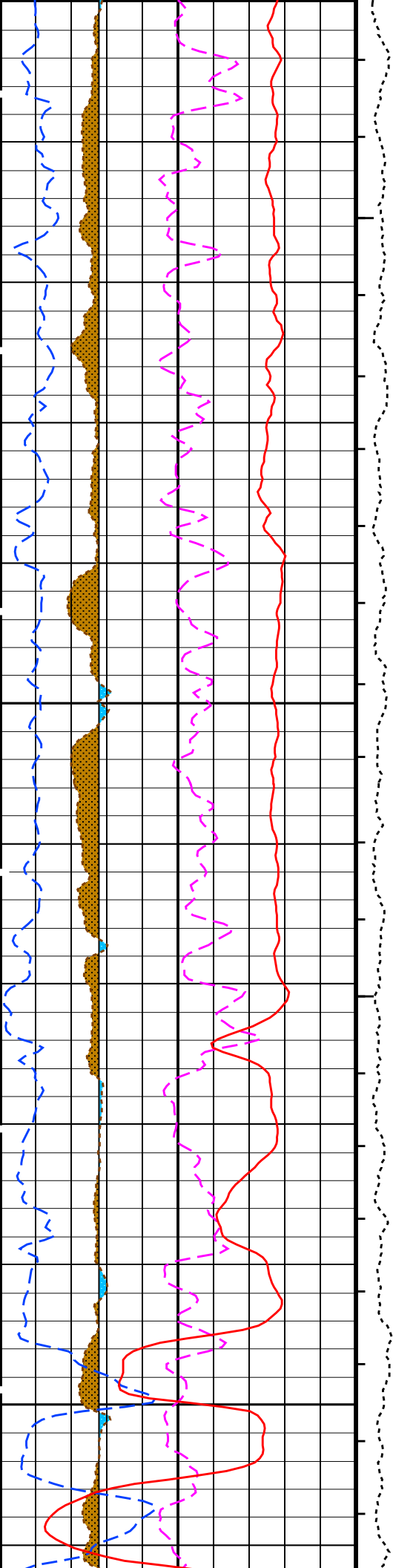


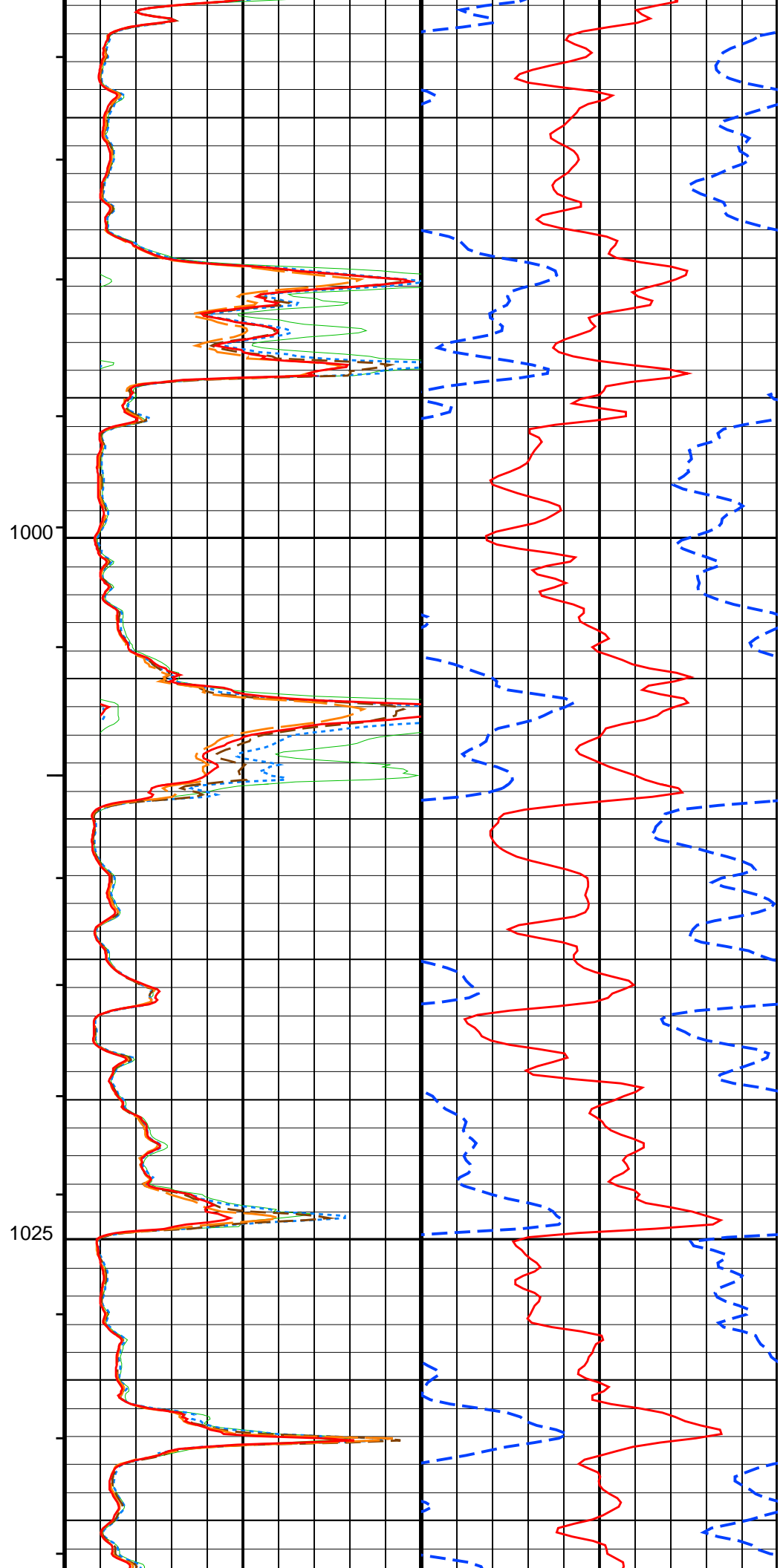
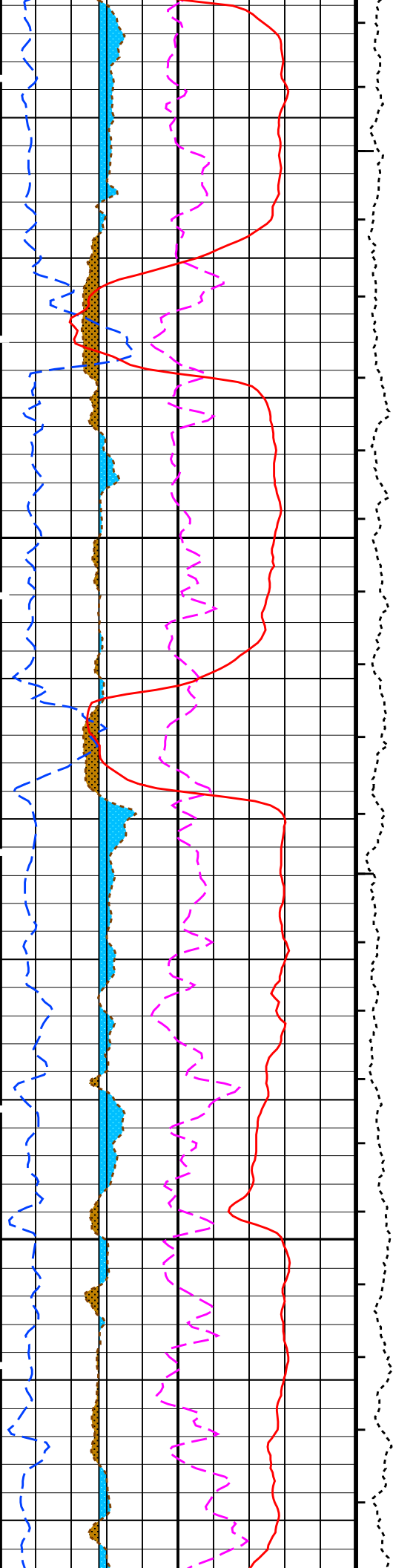


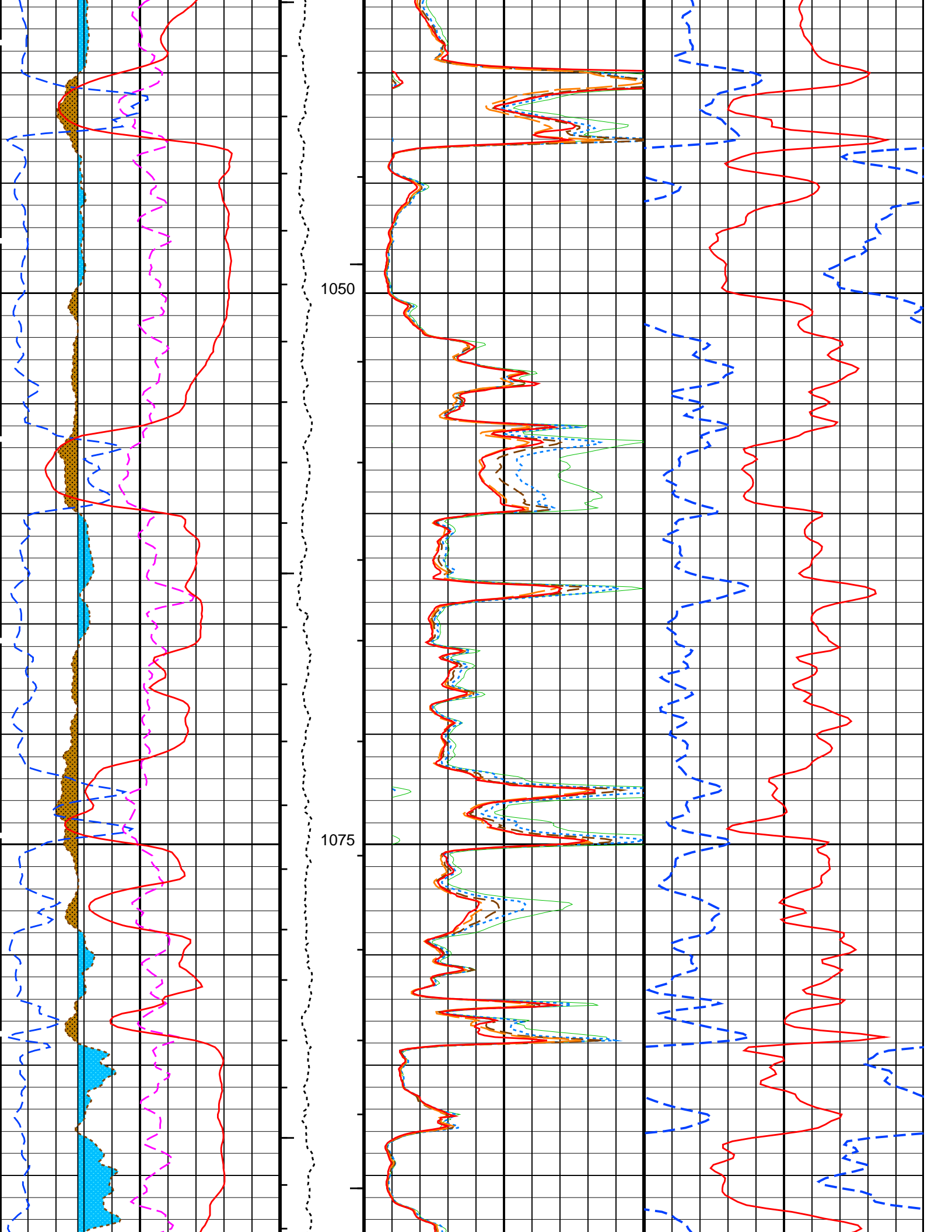


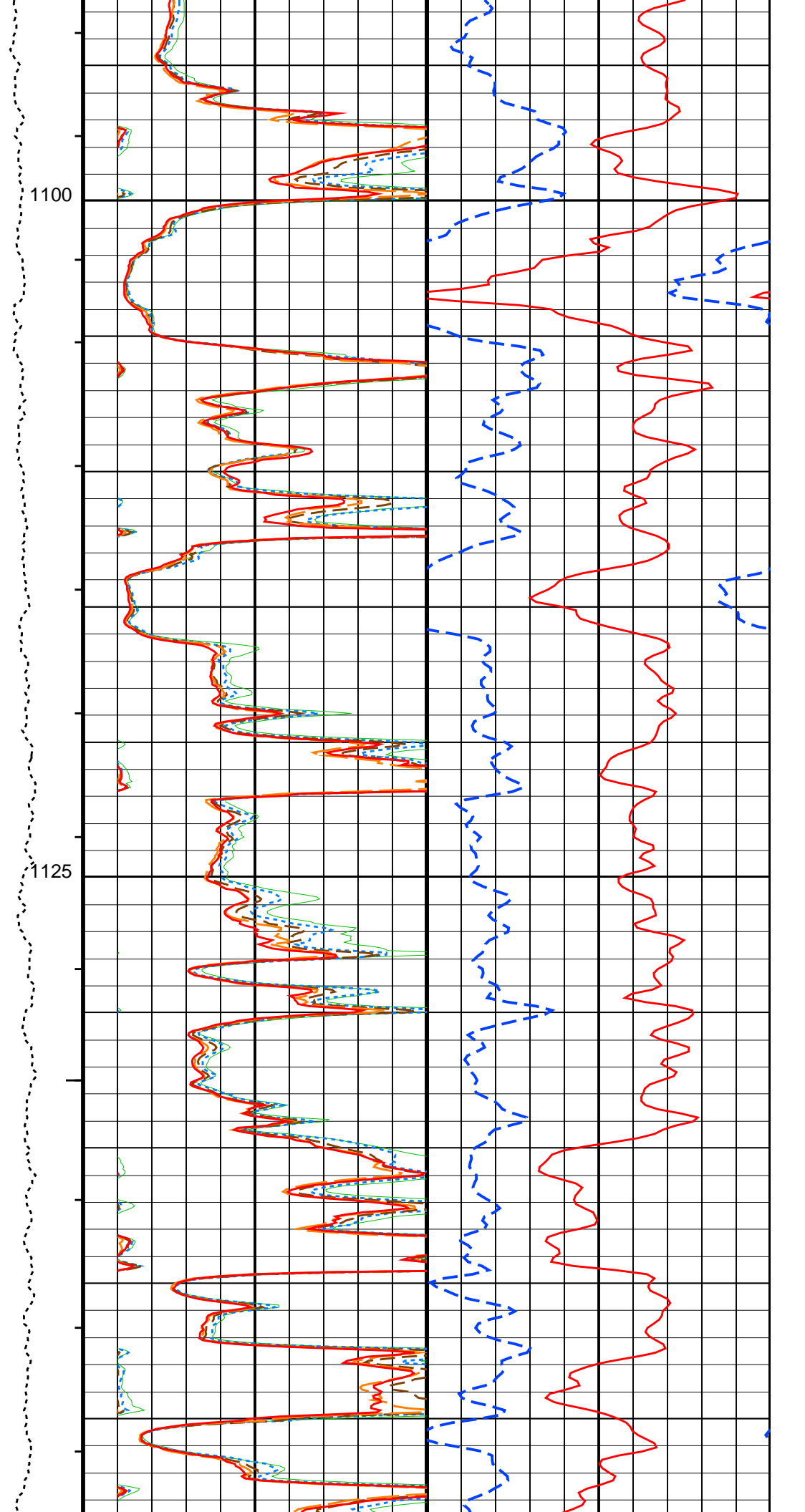
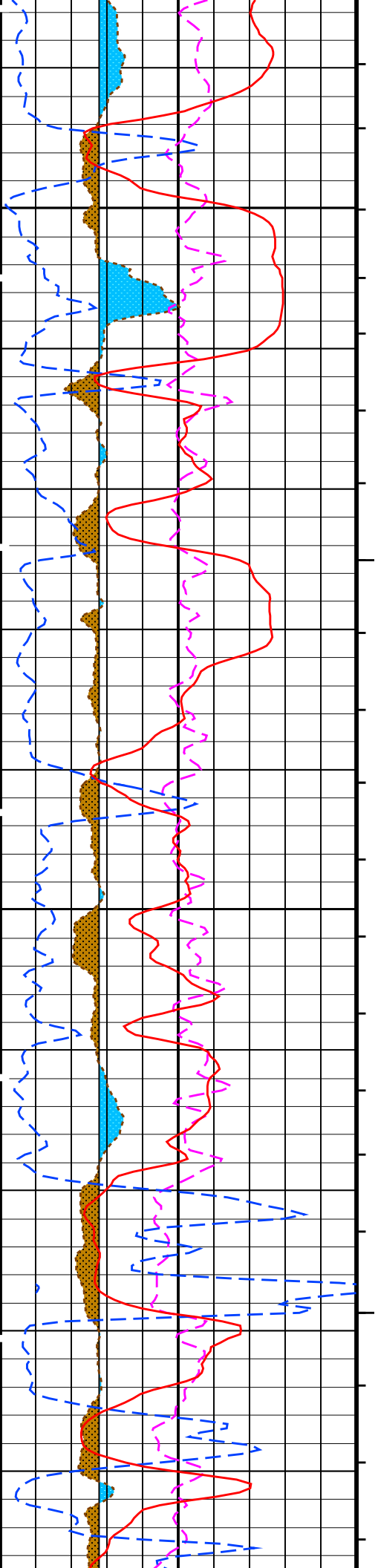


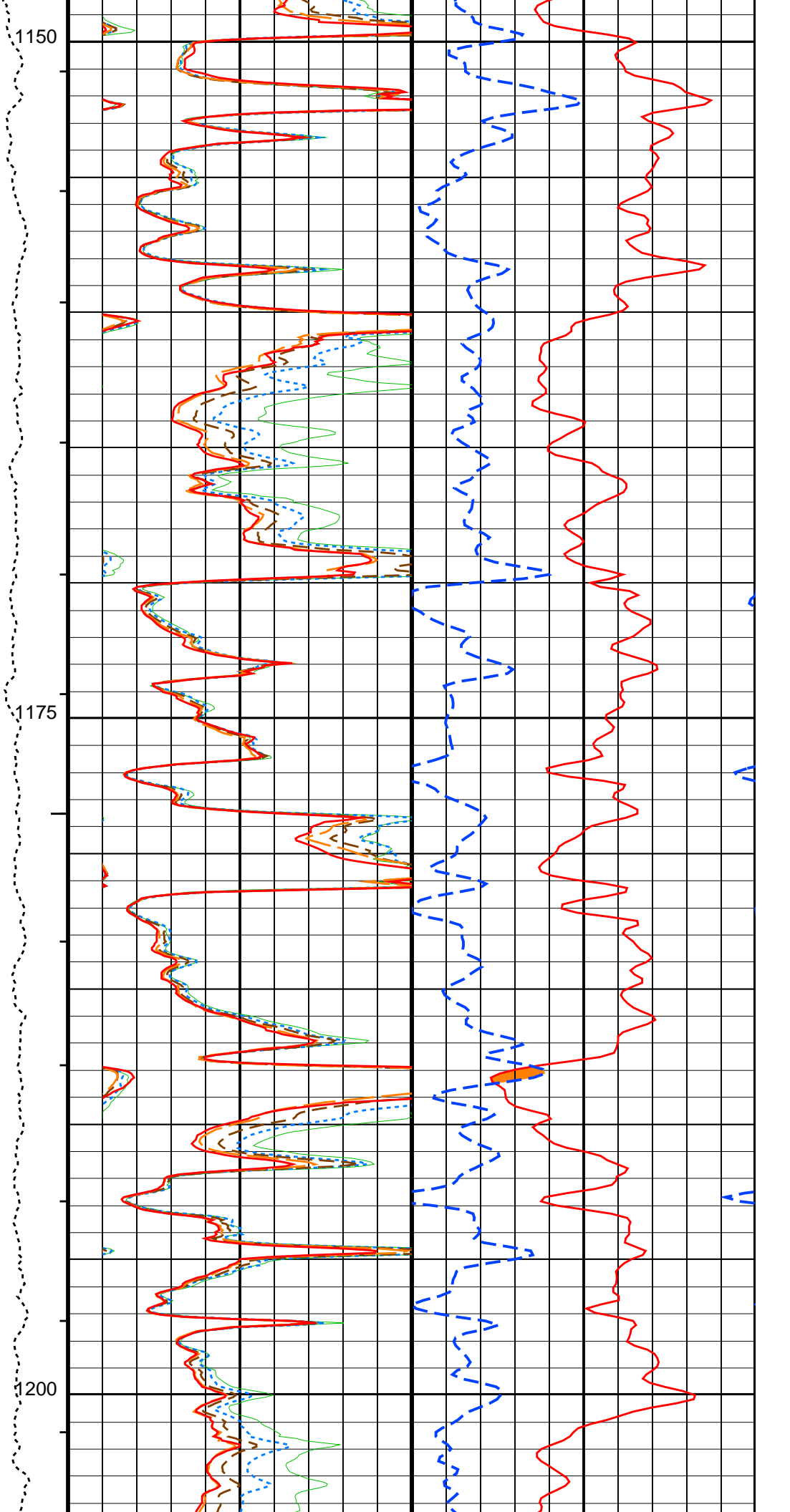
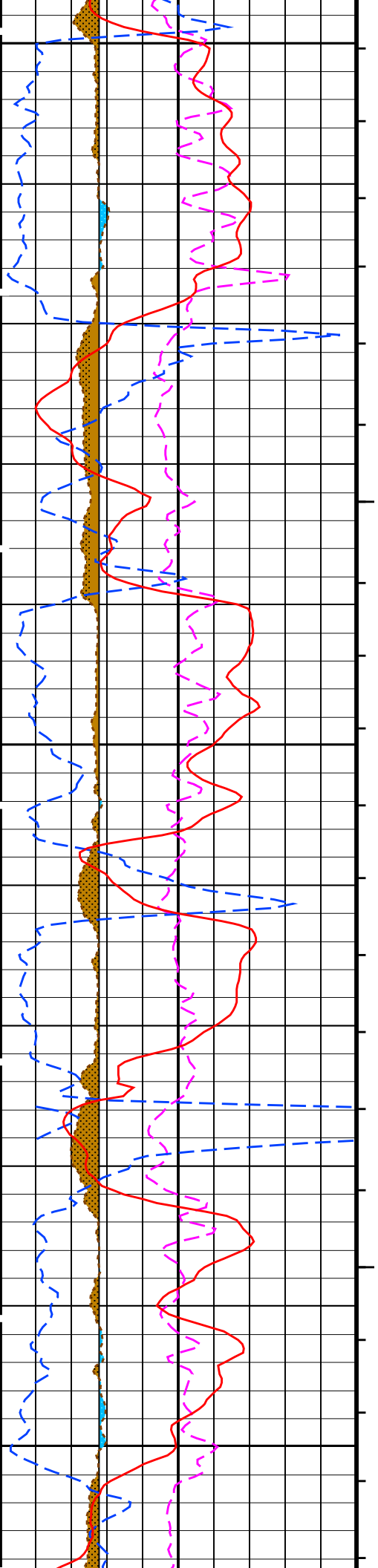


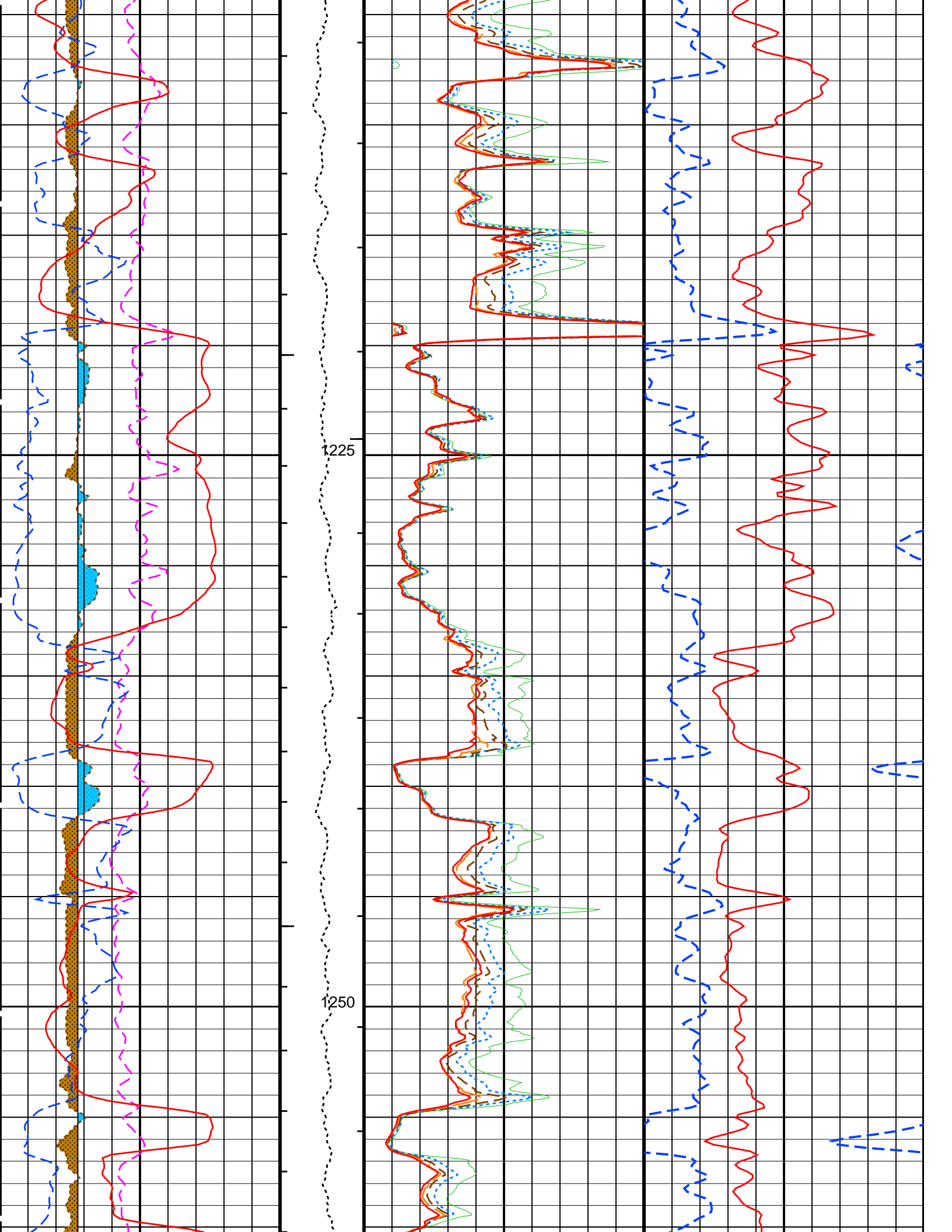


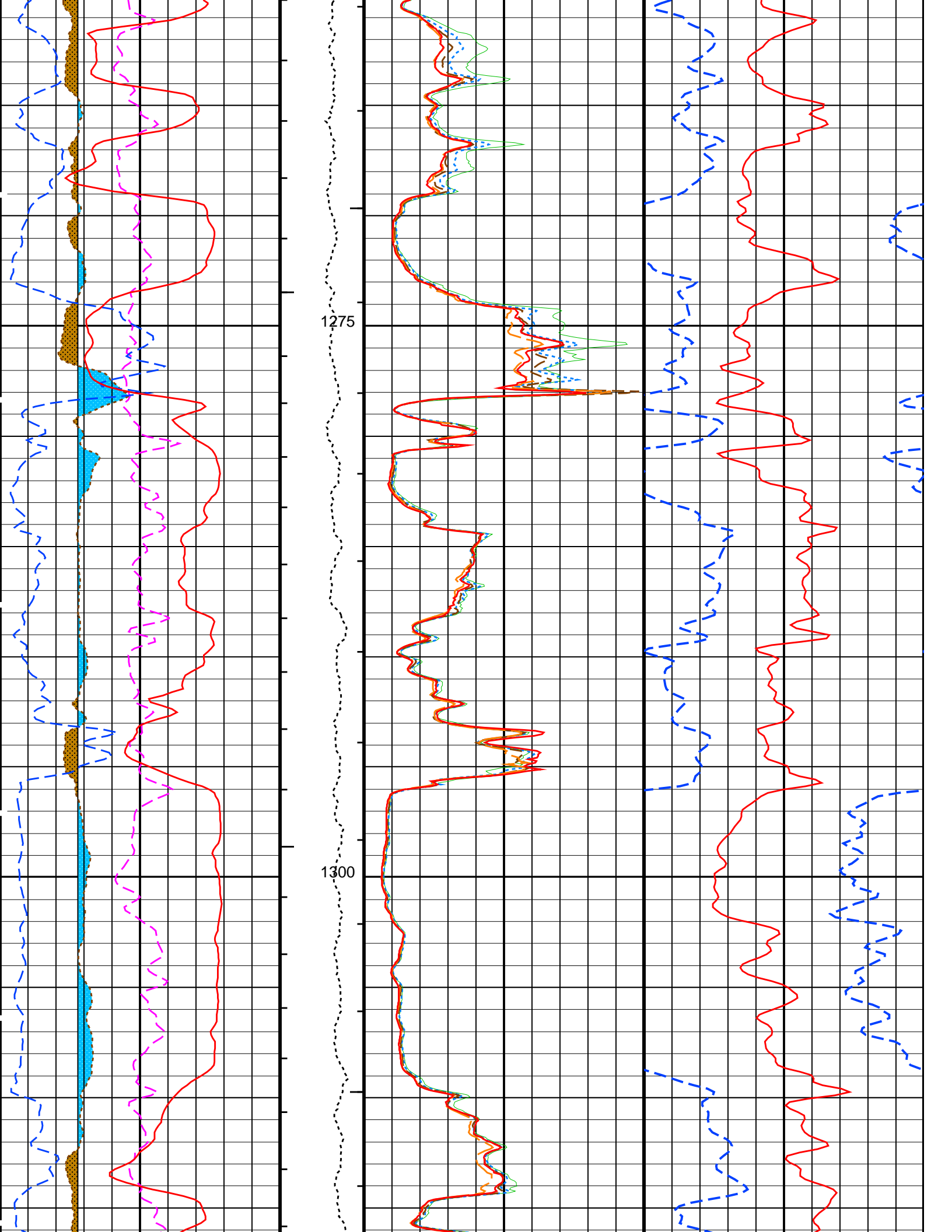


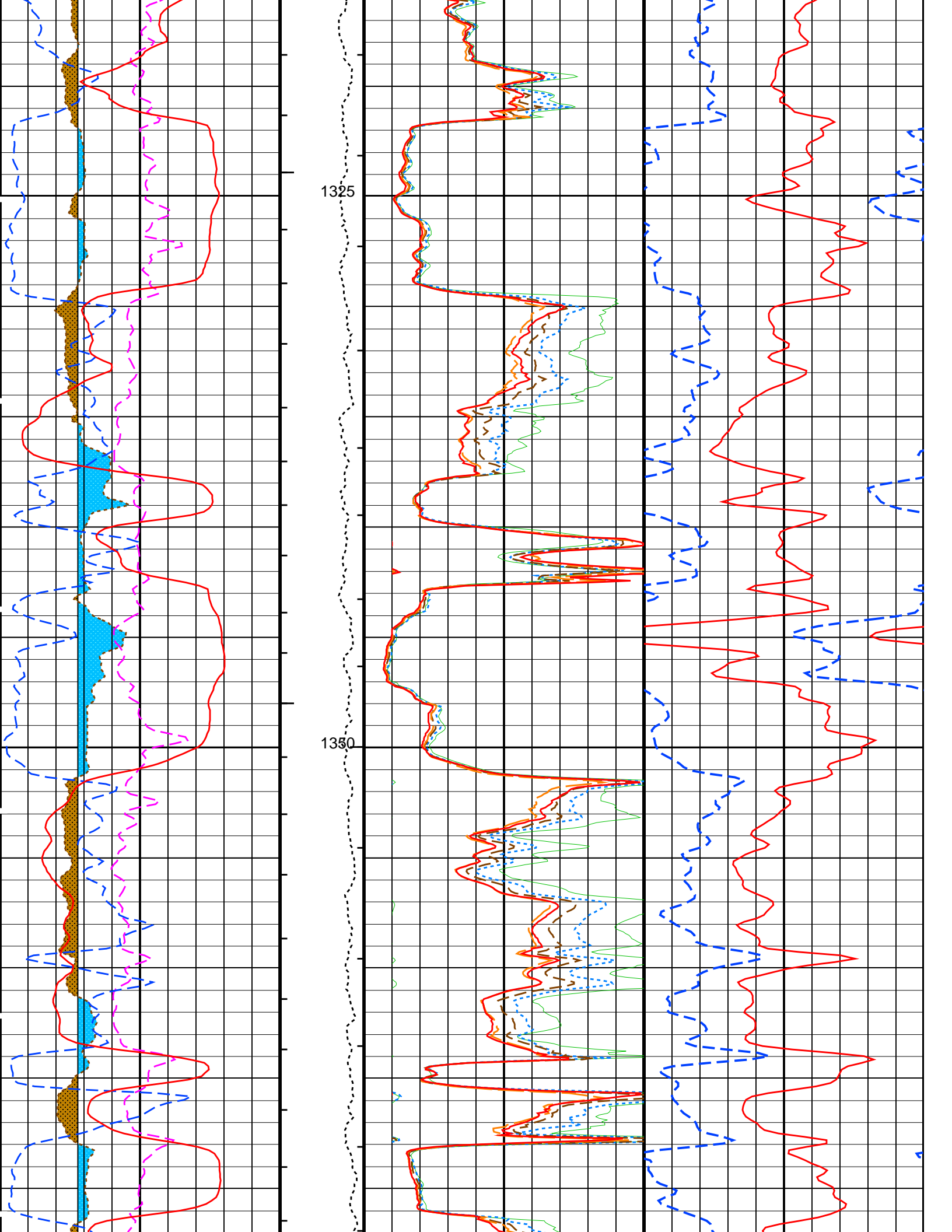


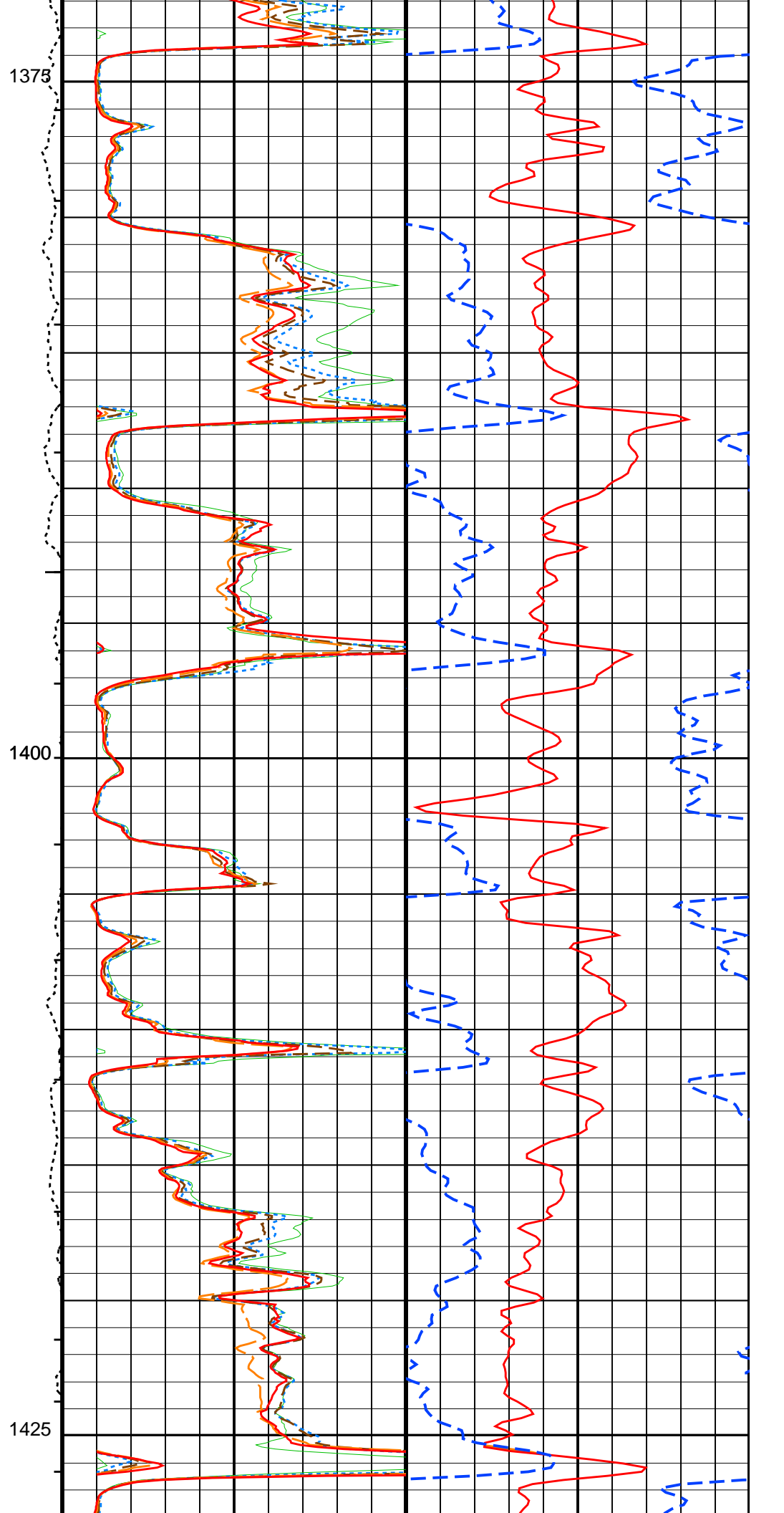
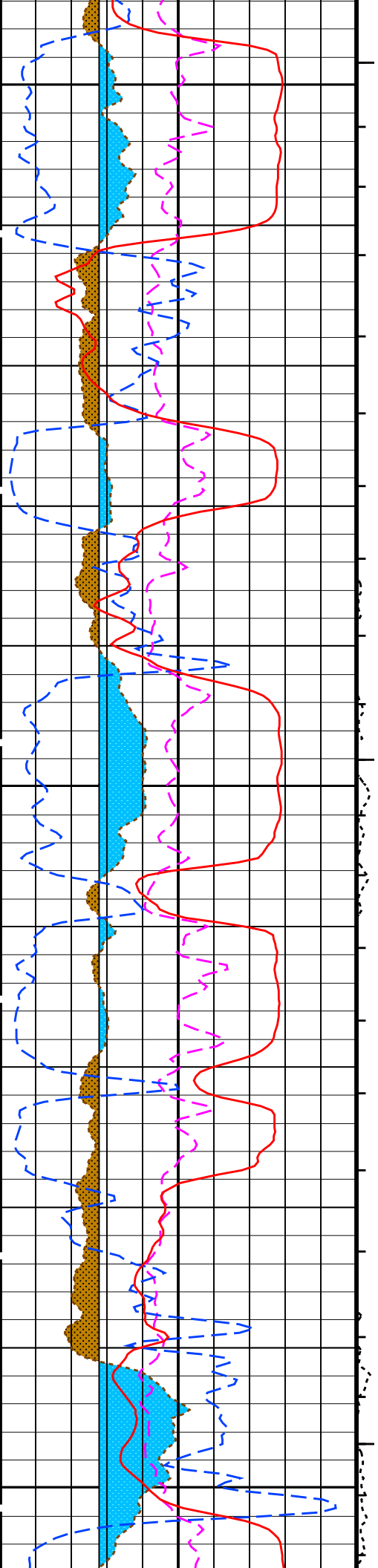


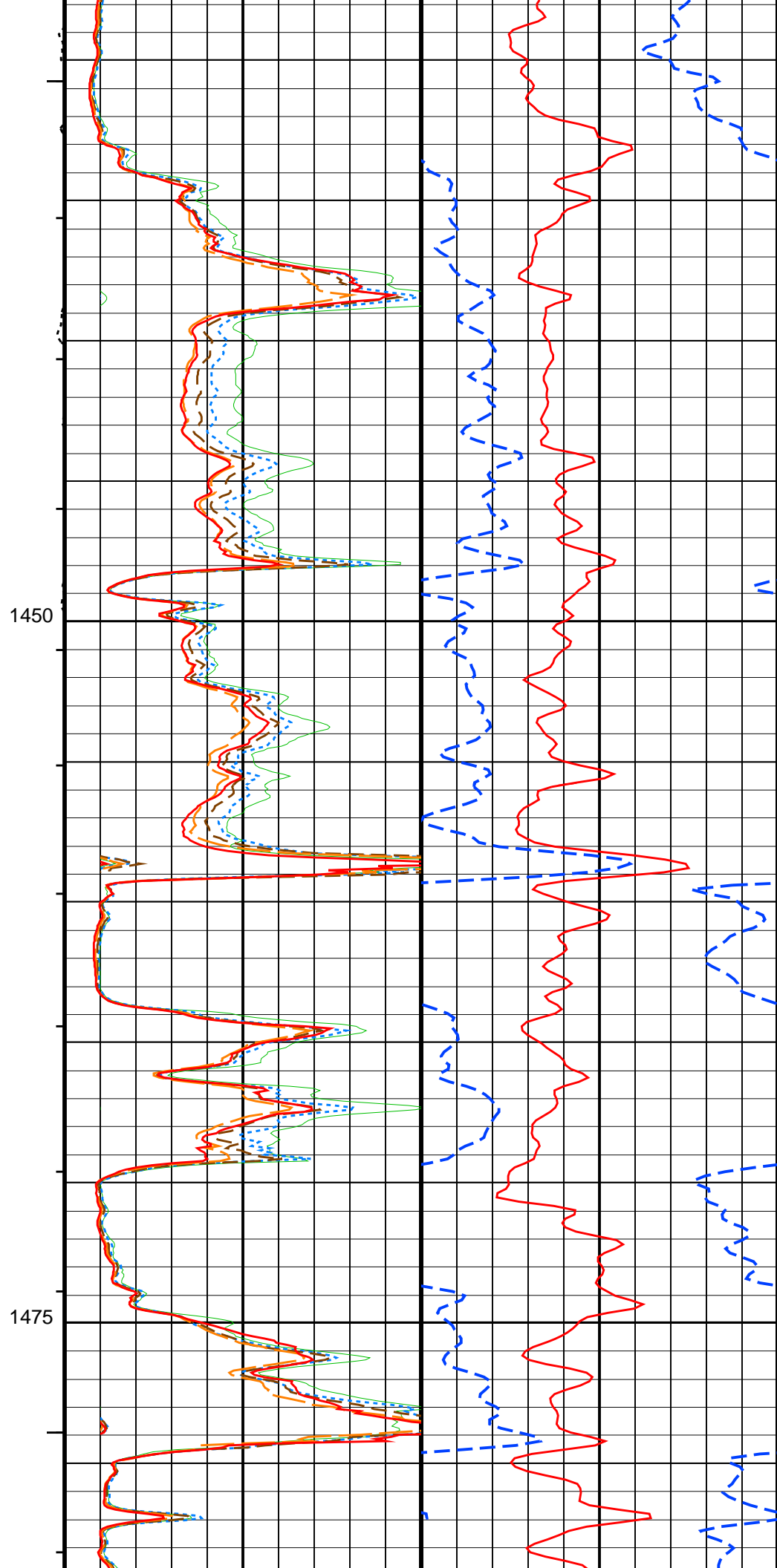
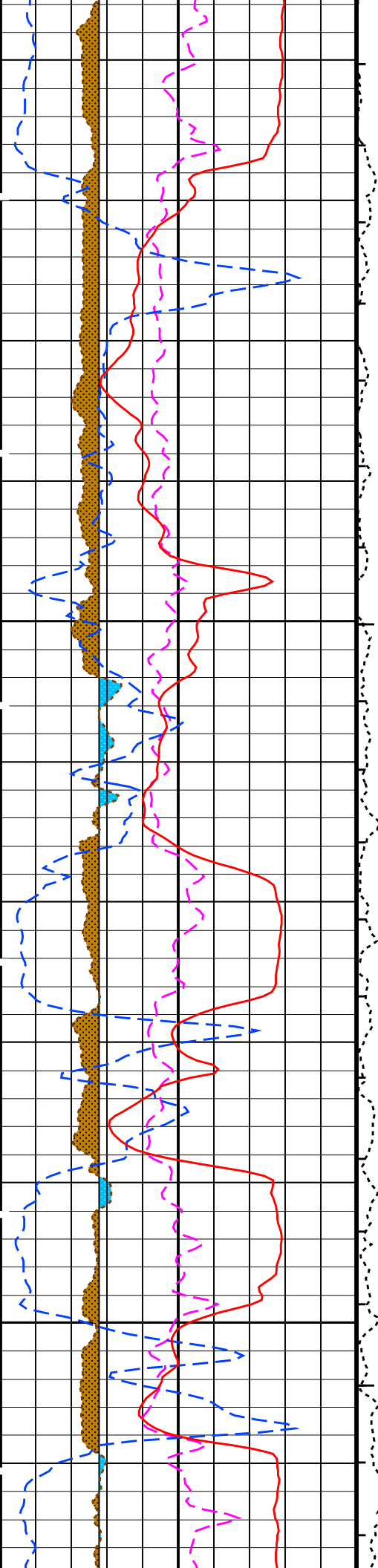


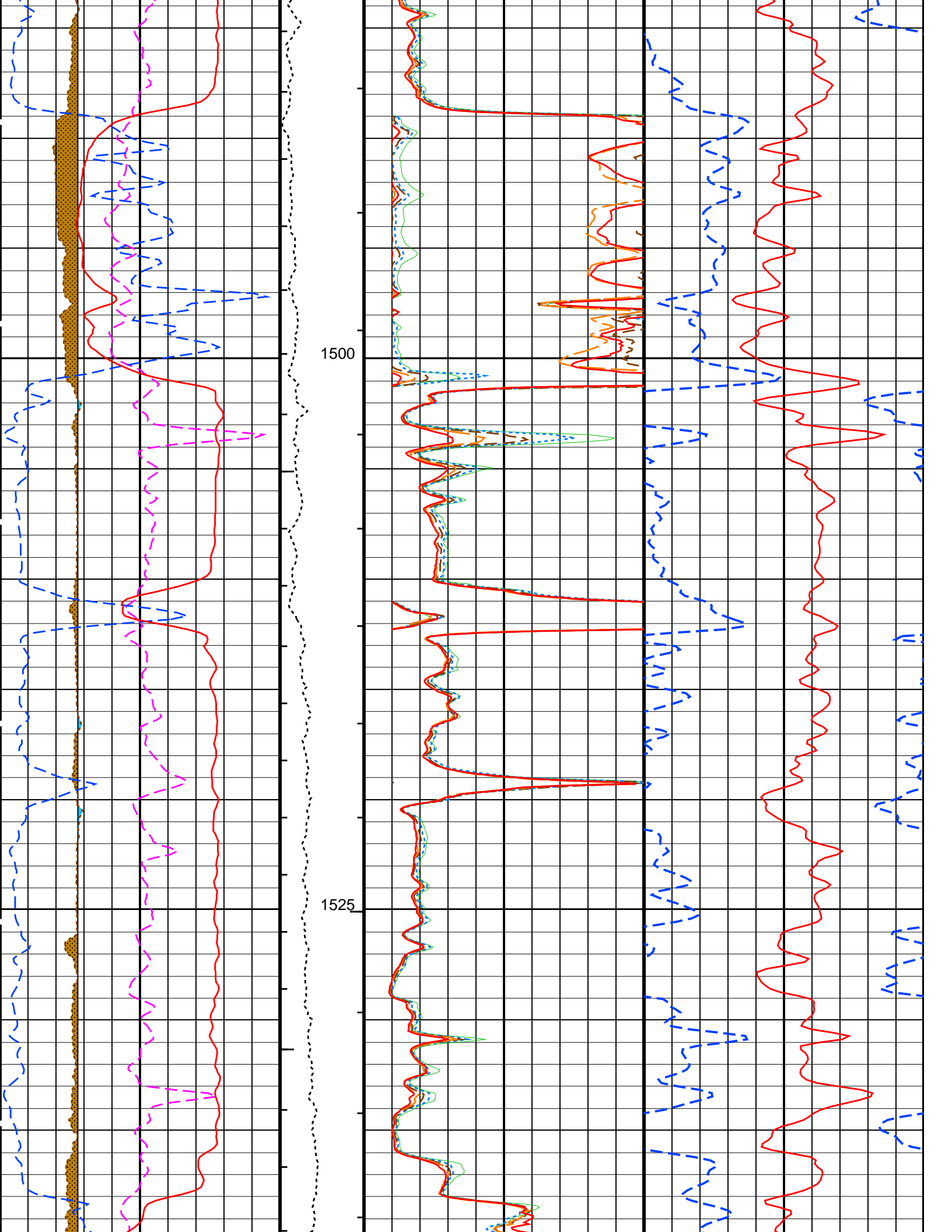


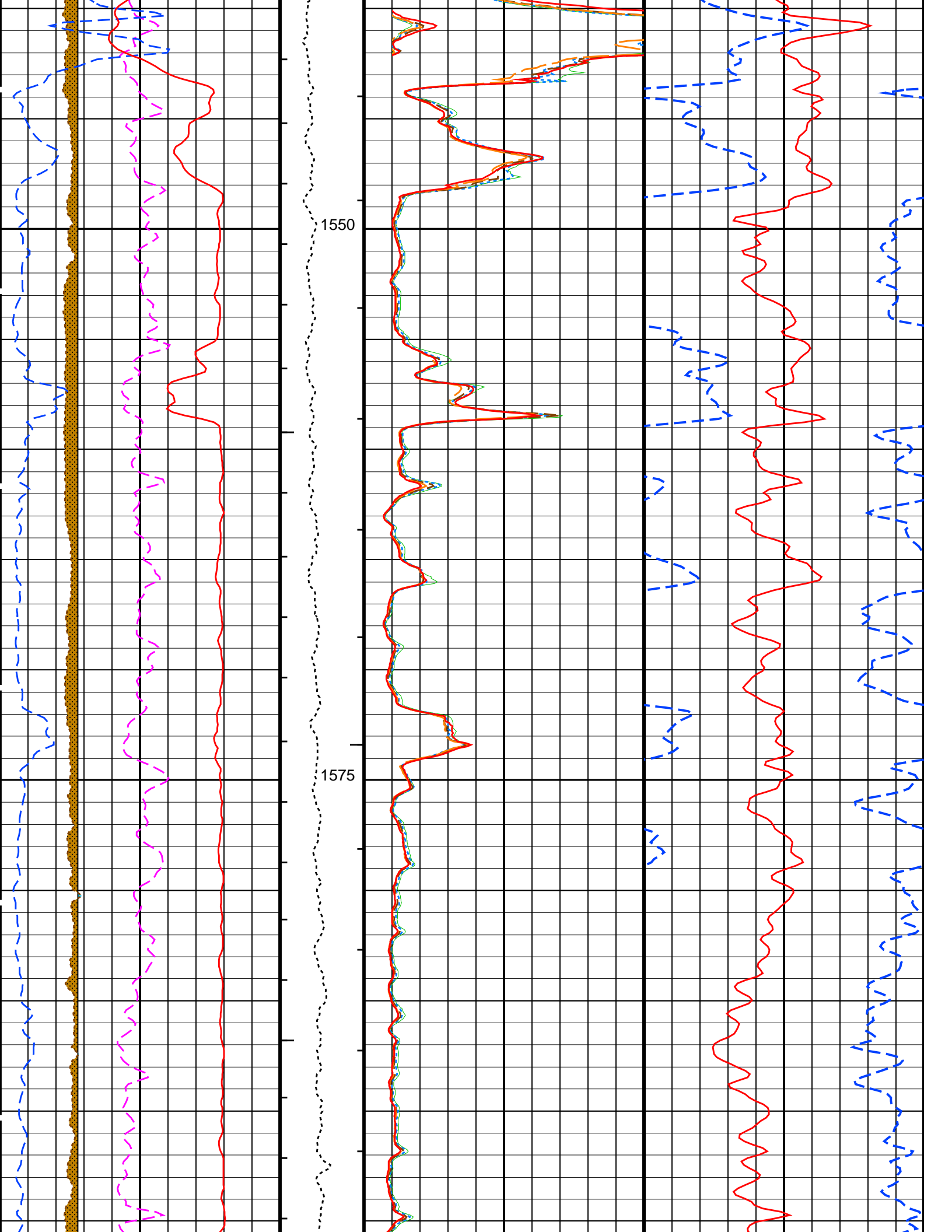


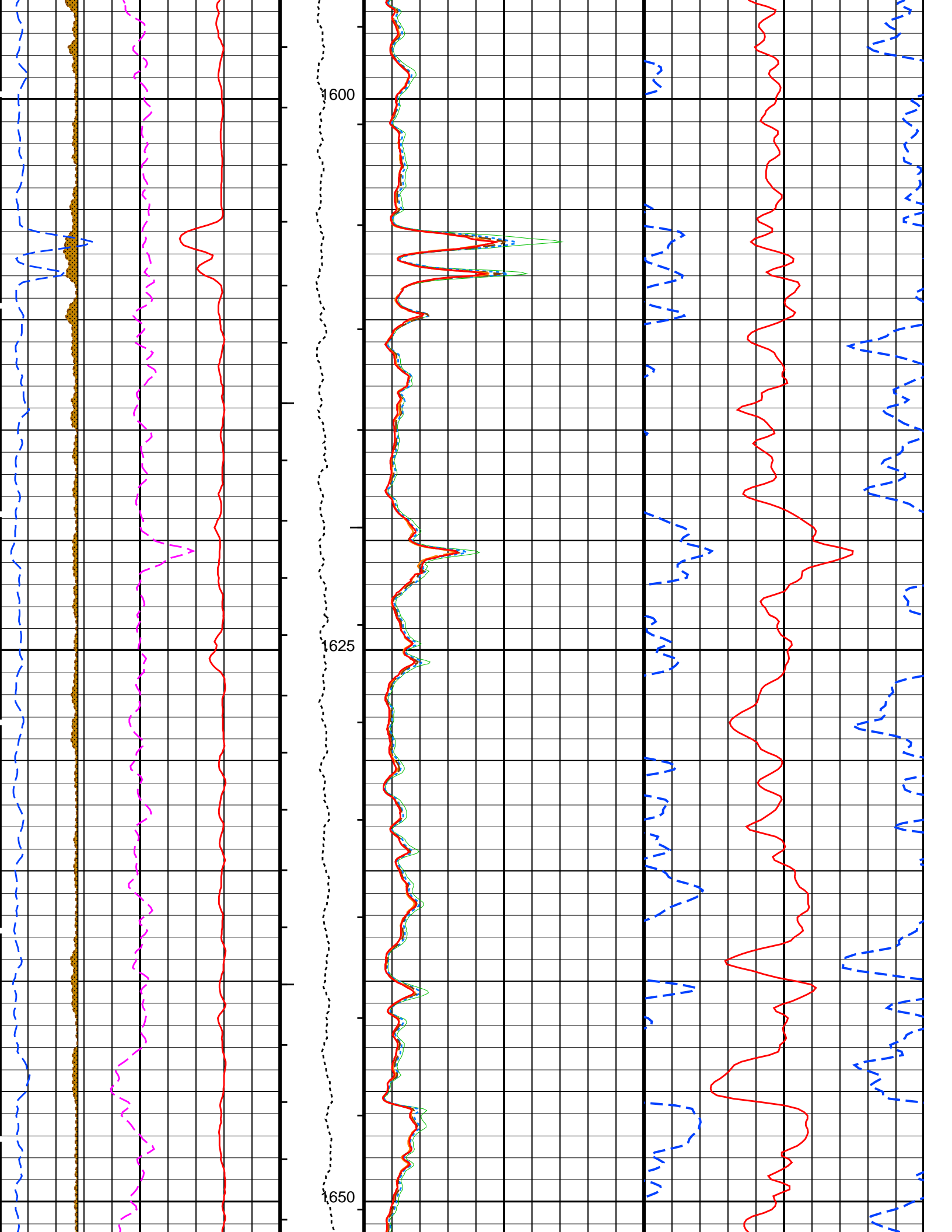


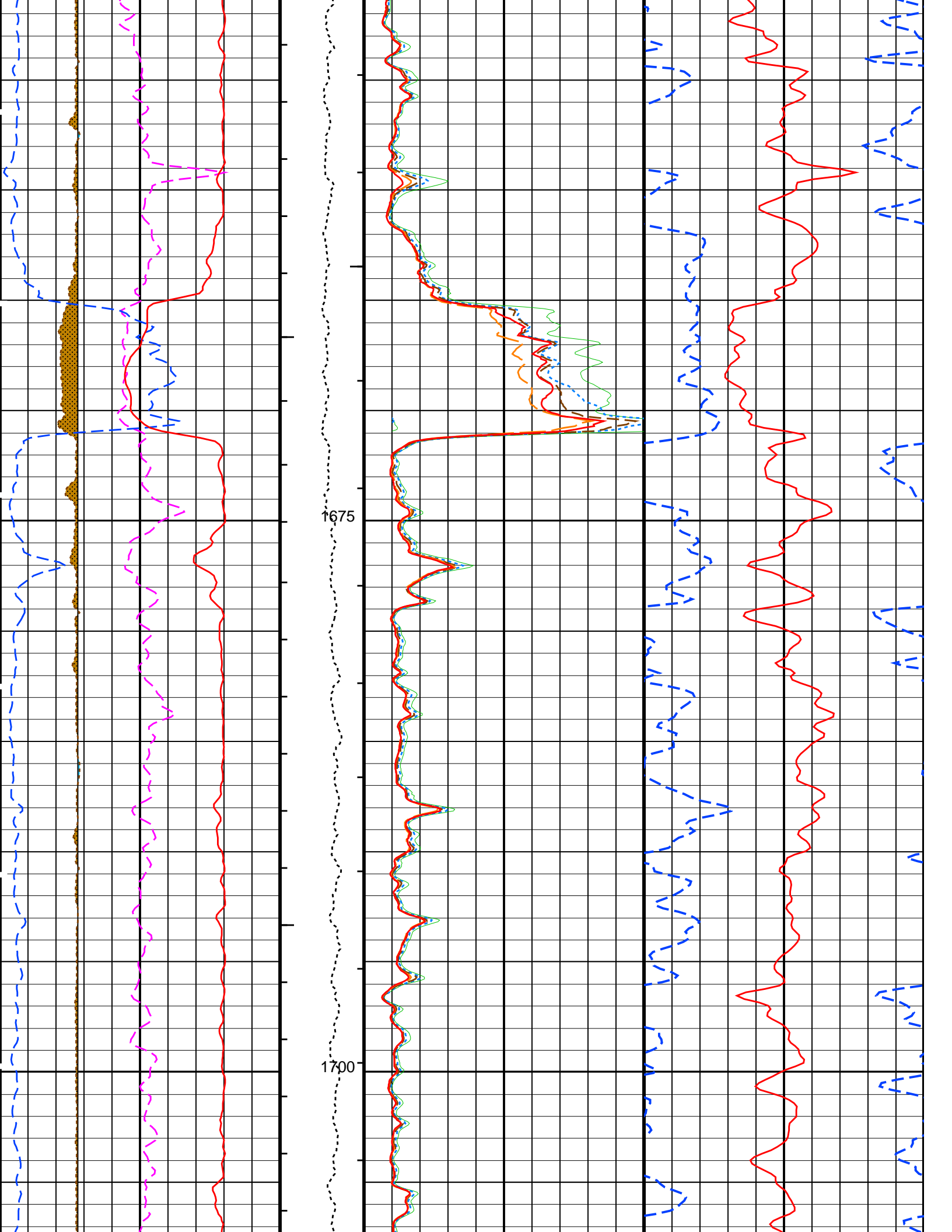


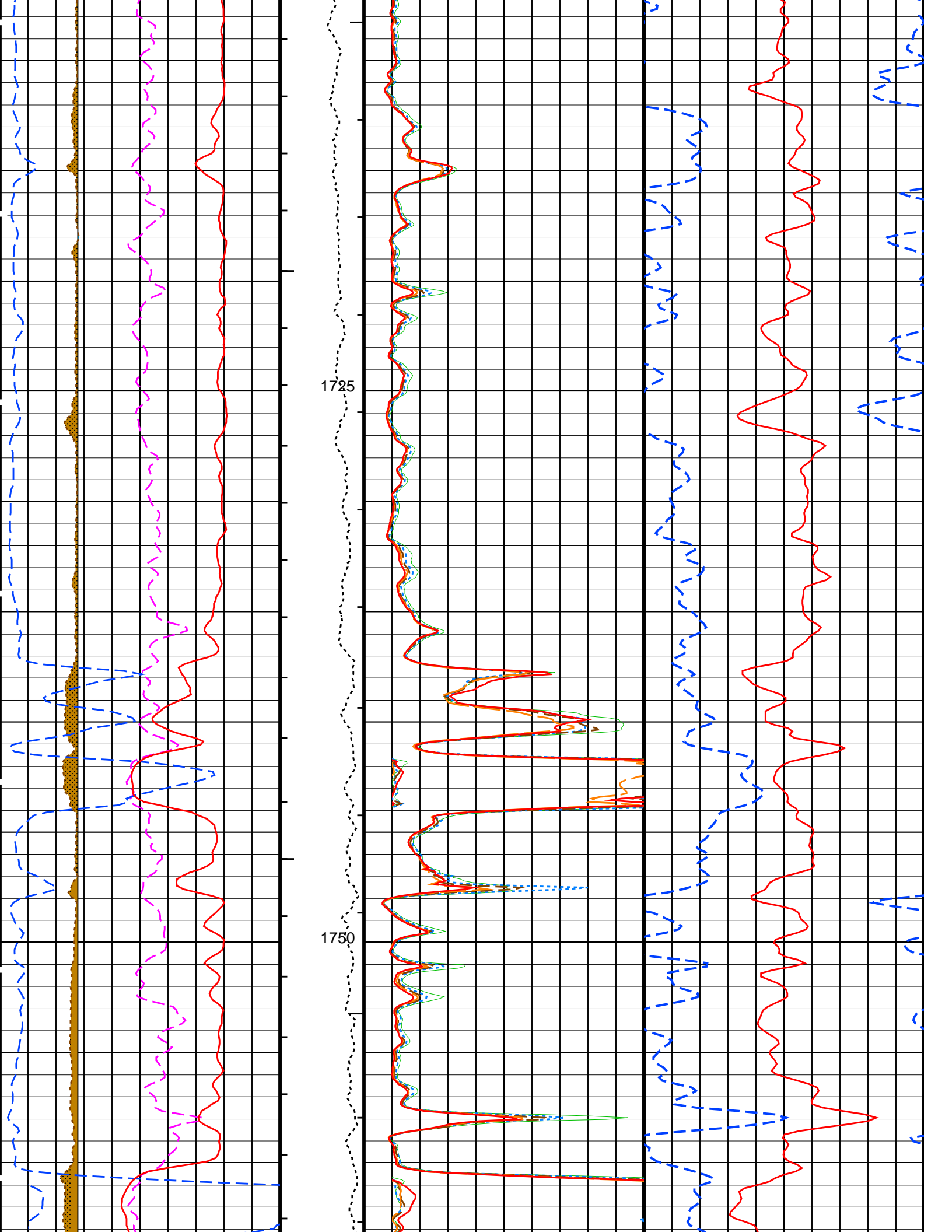


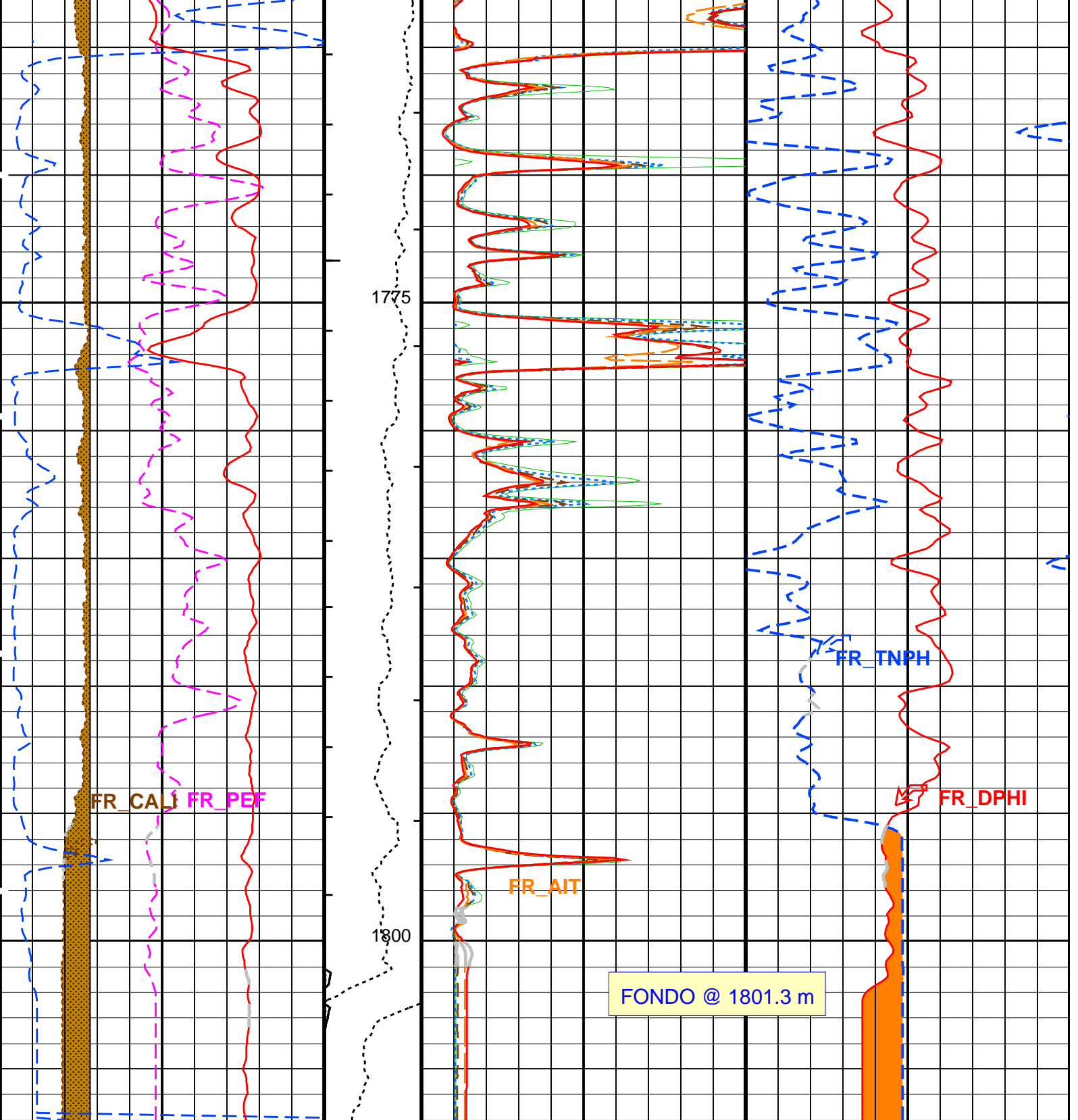












<p>Bit Size (BS) (IN)</p> <p>6 16</p>	<p>Tension (TENS) (LBF)</p> <p>0 1000</p>	<p>AIT-H 10 Inch Investigation (AHT10) (OHMM)</p> <p>0 10</p>	<p>Density Porosity (DPHI) (V/V)</p> <p>0.4 0</p>
<p>Caliper (CALI) (IN)</p> <p>6 16</p>	<p>Stuck Stretch (STIT) (M)</p> <p>0 20</p>	<p>AIT-H 20 Inch Investigation (AHT20) (OHMM)</p> <p>0 10</p>	<p>Env. Corr. Thermal Neutron Porosity (TNPH) (V/V)</p> <p>0.4 0</p>
<p>PhotoElectric Factor (PEF) (---</p> <p>0 5</p>		<p>AIT-H 30 Inch Investigation (AHT30) (OHMM)</p> <p>0 10</p>	<p>Gas From DPHI to TNPH</p>
<p>RWA (RWA) (OHMM)</p> <p>0 1</p>		<p>AIT-H 60 Inch Investigation (AHT60) (OHMM)</p> <p>0 10</p>	

	SP (SP)	
-80	(MV)	20
CAVERNA From BS to CALI		
REVOQUE From CALI to BS		

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

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	
AIT-H: Array Induction Tool - H			
AHBHM	Array Induction Borehole Correction Mode	2_ComputeStandoff	
AHBHV	Array Induction Borehole Correction Code Version Number	880	
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	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	70	DEGC
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	0.81	
FPHI	Form Factor Porosity Source	DPHI	
GCSE	Generalized Caliper Selection	CALI	
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	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
RTCO	RTCO - Rt Invasion Correction	YES	
SHT	Surface Hole Temperature	20	DEGC
SPDR	SP Drift	0	MV/M
SPNV	SP Next Value	-4	MV
LDT-D: Litho Density - D			
BFM	Borehole Fluid Medium	LIQUID	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	70	DEGC
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
GCSE	Generalized Caliper Selection	CALI	
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	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MDEN	Matrix Density	2.65	G/C3
SHT	Surface Hole Temperature	20	DEGC
WMUD	Mud Weight	1.17	G/C3
HILTB-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	70	DEGC
BSCO	Borehole Salinity Correction Option	YES	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	0.81	
FPHI	Form Factor Porosity Source	DPHI	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	CALI	

GCSE	Generalized Caliper Selection	CALI	0	DEG
GDEV	Average Angular Deviation of Borehole from Normal		0.018227	DC/M
GGRD	Geothermal Gradient			
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST		
GTSE	Generalized Temperature Selection	HSTS_HTEM		
HSCO	Hole Size Correction Option		YES	
ISSBAR	Barite Mud Switch	NOBARITE		
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE		
MCCO	Mud Cake Correction Option		YES	
MCOR	Mud Correction	NATU		
MWCO	Mud Weight Correction Option		YES	
PTCO	Pressure/Temperature Correction Option		YES	
SDAT	Standoff Data Source	SOCN		
SHT	Surface Hole Temperature		20	DEGC
SOCN	Standoff Distance		0.125	IN
SOCO	Standoff Correction Option		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	DPHI		
RTCO	RTCO - Rt Invasion Correction		YES	
ALLRES: Basic Resistivity Transforms				
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90		
RTCO	RTCO - Rt Invasion Correction		YES	
HOLEV: Integrated Hole/Cement Volume				
BHS	Borehole Status		OPEN	
BHT	Bottom Hole Temperature (used in calculations)		70	DEGC
FCD	Future Casing (Outer) Diameter		5.5	IN
GCSE	Generalized Caliper Selection	CALI		
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	CALI		
ISSBAR	Barite Mud Switch	NOBARITE		
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE		
SHT	Surface Hole Temperature		20	DEGC
STI: Stuck Tool Indicator				
LBFR	Trigger for MAXIS First Reading Label		STI	
STKT	STI Stuck Threshold		0.762	M
TDD	Total Depth - Driller		1800.00	M
TDL	Total Depth - Logger		1801.30	M
System and Miscellaneous				
BS	Bit Size		8.750	IN
BSAL	Borehole Salinity		350.00	PPM
CSIZ	Current Casing Size		9.625	IN
CWEI	Casing Weight		32.30	LB/F
DFD	Drilling Fluid Density		1.17	G/C3
DO	Depth Offset for Playback		0.2	M
MST	Mud Sample Temperature		7.20	DEGC
PP	Playback Processing	RECOMPUTE		
RMFS	Resistivity of Mud Filtrate Sample		3.8800	OHMM
RW	Resistivity of Connate Water		1.0000	OHMM
TD	Total Depth		1801.3	M
TWS	Temperature of Connate Water Sample		37.78	DEGC

Format: COMBINADA Vertical Scale: 1:200 Graphics File Created: 30-Jun-2006 18:52

OP System Version: 14C0-302

MCM

AIT-H	14C0-302	LDT-D	14C0-302
DTA-A	14C0-302	HILTB-FTB	14C0-302
DTC-H	14C0-302		

Input DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_025LUP	FN:24	PRODUCER	30-Jun-2006 08:23	1806.9 M	291.0 M
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Output DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_089PUP	FN:42	PRODUCER	30-Jun-2006 18:52		
CUST1	AIT_LDL_TLD_MCFL_089PUC	FN:43	CUSTOMER	30-Jun-2006 18:52		
CUST2	AIT_LDL_TLD_MCFL_089PUC	FN:44	CUSTOMER	30-Jun-2006 18:52		

MAXIS Field Log

Input DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_024LUP	FN:23	PRODUCER	30-Jun-2006 08:23	1805.0 M	1626.4 M
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Output DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_091PUP	FN:48	PRODUCER	30-Jun-2006 19:01	1775.0 M	1700.9 M
CUST1	AIT_LDL_TLD_MCFL_091PUC	FN:49	CUSTOMER	30-Jun-2006 19:01	1775.0 M	1700.9 M
CUST2	AIT_LDL_TLD_MCFL_091PUC	FN:50	CUSTOMER	30-Jun-2006 19:01	1775.0 M	1700.9 M

Integrated Hole/Cement Volume Summary

Hole Volume = 2.76 M3
 Cement Volume = 1.63 M3 (assuming 5.50 IN casing O.D.)
 Computed from 1775.0 M to 1700.9 M using data channel(s) CALI

OP System Version: 14C0-302

MCM

AIT-H	14C0-302	LDT-D	14C0-302
DTA-A	14C0-302	HILTB-FTB	14C0-302
DTC-H	14C0-302		

Changed Parameter Summary

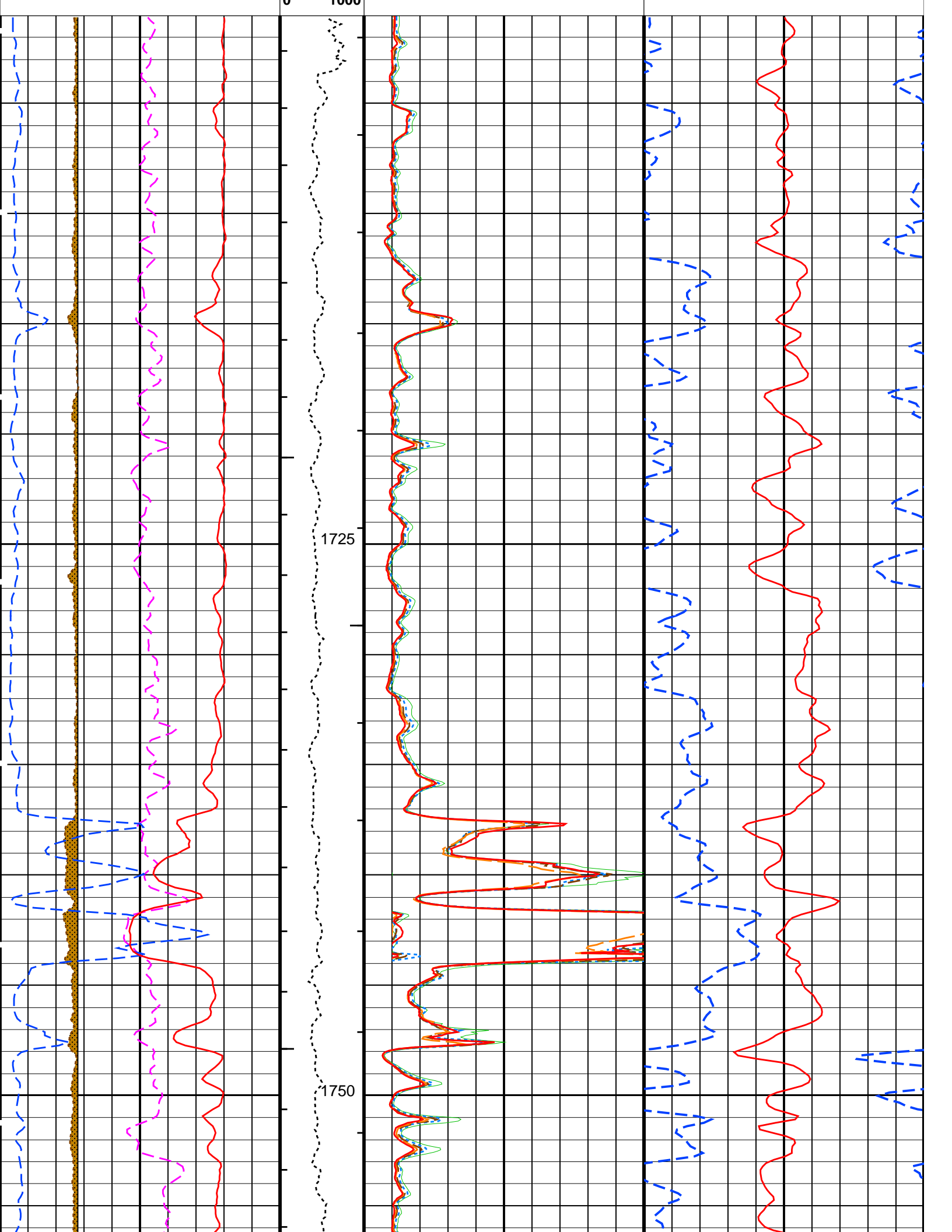
DLIS Name	New Value	Previous Value	Depth & Time
SPDR	0 MV/M	0 MV/M	1775.0 19:01:15

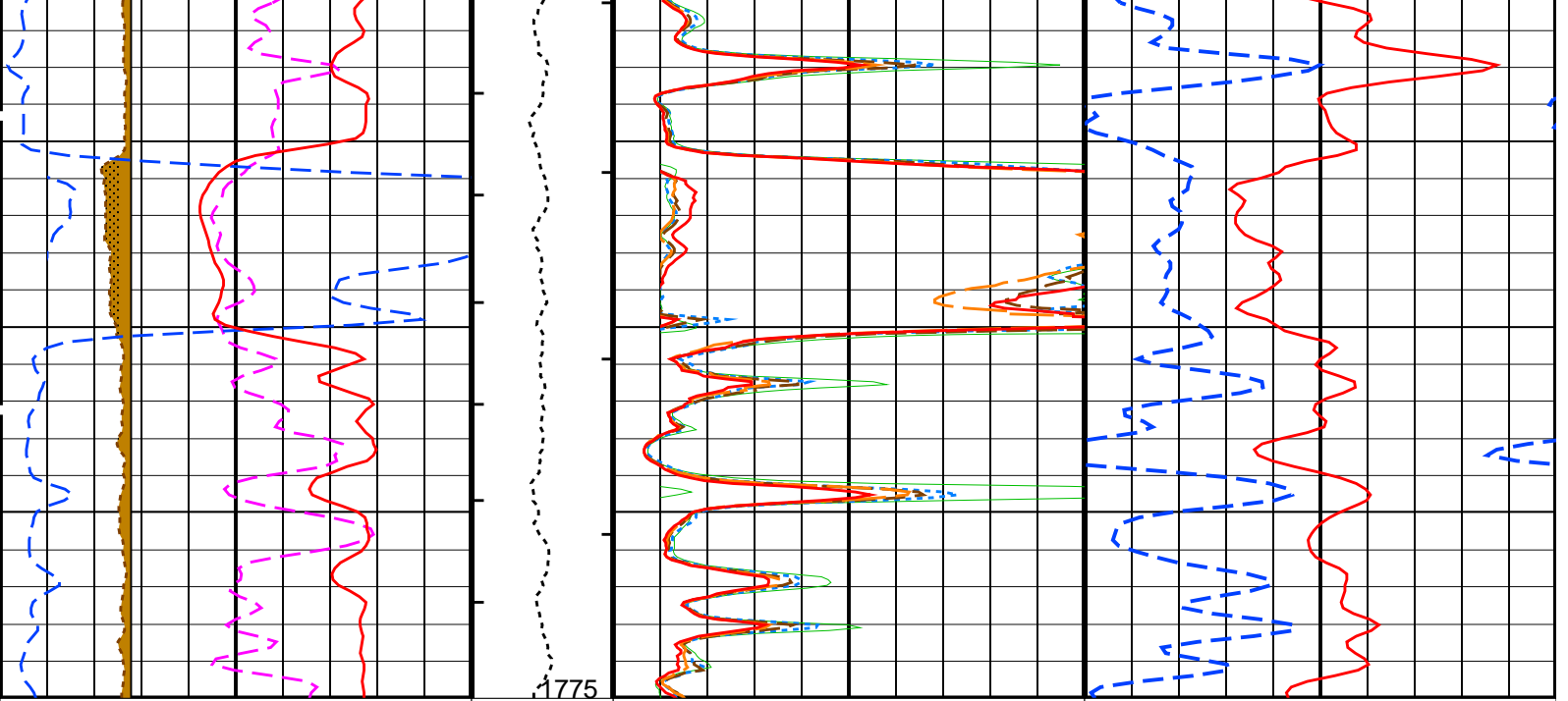
PIP SUMMARY

- └ 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

REVOQUE From CALI to BS			
CAVERNA From BS to CALI			
-80	SP (SP) (MV)	20	
0	RWA (RWA) (OHMM)	1	
0	PhotoElectric Factor (PEF) (----)	5	
6	Caliper (CALI) (IN)	16	
0	Bit Size (BS) (IN)	16	
0	Tension (TENS) (LBF)	1000	
0	AIT-H 90 Inch Investigation (AHT90) (OHMM)	10	
0	AIT-H 60 Inch Investigation (AHT60) (OHMM)	10	
0	AIT-H 30 Inch Investigation (AHT30) (OHMM)	10	Gas From DPPI to TNPH
0	AIT-H 20 Inch Investigation (AHT20) (OHMM)	10	Env.Corr.Thermal Neutron Porosity (TNPH) (V/V)
0.4	Density Porosity (DPHI) (V/V)	0	0





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

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
AIT-H: Array Induction Tool - H		
AHBHM	Array Induction Borehole Correction Mode	2_ComputeStandoff
AHBHV	Array Induction Borehole Correction Code Version Number	880
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	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	70	DEGC
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	0.81	
FPHI	Form Factor Porosity Source	DPHI	
GCSE	Generalized Caliper Selection	CALI	
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	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
RTCO	RTCO - Rt Invasion Correction	YES	
SHT	Surface Hole Temperature	20	DEGC
SPDR	SP Drift	0	MV/M
SPNV	SP Next Value	-3	MV

LDT-D: Litho Density - D

BFM	Borehole Fluid Medium	LIQUID	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	70	DEGC
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
GCSE	Generalized Caliper Selection	CALI	
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	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MDEN	Matrix Density	2.65	G/C3
SHT	Surface Hole Temperature	20	DEGC
WMUD	Mud Weight	1.17	G/C3

HILTB-FTB: High resolution Integrated Logging Tool-DTS

BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	70	DEGC
BSCO	Borehole Salinity Correction Option	YES	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	0.81	
FPHI	Form Factor Porosity Source	DPHI	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	CALI	
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	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	YES	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	YES	
PTCO	Pressure/Temperature Correction Option	YES	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	

RWA: Apparent Water

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	DPHI	
RTCO	RTCO - Rt Invasion Correction	YES	

ALLRES: Basic Resistivity Transforms

ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90	
RTCO	RTCO - Rt Invasion Correction	YES	

HOLEV: Integrated Hole/Cement Volume

BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	70	DEGC
FCD	Future Casing (Outer) Diameter	5.5	IN
GCSE	Generalized Caliper Selection	CALI	
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	CALI	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC

STI: Stuck Tool Indicator

LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	0.762	M
TDD	Total Depth – Driller	1800.00	M
TDL	Total Depth – Logger	1801.30	M
System and Miscellaneous			
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	350.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	32.30	LB/F
DFD	Drilling Fluid Density	1.17	G/C3
DO	Depth Offset for Playback	0.9	M
DORL	Depth Offset for Repeat Analysis	0.0	M
MST	Mud Sample Temperature	7.20	DEGC
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	3.8800	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1801.3	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: COMBINADA Vertical Scale: 1:200 Graphics File Created: 30-Jun-2006 19:01

OP System Version: 14C0-302
MCM

AIT-H	14C0-302	LDT-D	14C0-302
DTA-A	14C0-302	HILTB-FTB	14C0-302
DTC-H	14C0-302		

Input DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_024LUP	FN:23	PRODUCER	30-Jun-2006 08:23	1805.0 M	1626.4 M
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Output DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_091PUP	FN:48	PRODUCER	30-Jun-2006 19:01		
CUST1	AIT_LDL_TLD_MCFL_091PUC	FN:49	CUSTOMER	30-Jun-2006 19:01		
CUST2	AIT_LDL_TLD_MCFL_091PUC	FN:50	CUSTOMER	30-Jun-2006 19:01		



ANALISIS DE REPETIBILIDAD

MAXIS Field Log

Input DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_024LUP	FN:23	PRODUCER	30-Jun-2006 08:23	1805.0 M	1626.4 M
DEFAULT	AIT_LDL_TLD_MCFL_089PUP	FN:42	PRODUCER	30-Jun-2006 18:52	1807.0 M	345.0 M

Output DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_091PUP	FN:48	PRODUCER	30-Jun-2006 19:01	1775.0 M	1700.9 M
CUST1	AIT_LDL_TLD_MCFL_091PUC	FN:49	CUSTOMER	30-Jun-2006 19:01	1775.0 M	1700.9 M
CUST2	AIT_LDL_TLD_MCFL_091PUC	FN:50	CUSTOMER	30-Jun-2006 19:01	1775.0 M	1700.9 M

Integrated Hole/Cement Volume Summary

Hole Volume = 2.76 M3
 Cement Volume = 1.63 M3 (assuming 5.50 IN casing O.D.)
 Computed from 1775.0 M to 1700.9 M using data channel(s) CALI

AIT-H 14C0-302
DTA-A 14C0-302
DTC-H 14C0-302

LDT-D 14C0-302
HILTB-FTB 14C0-302

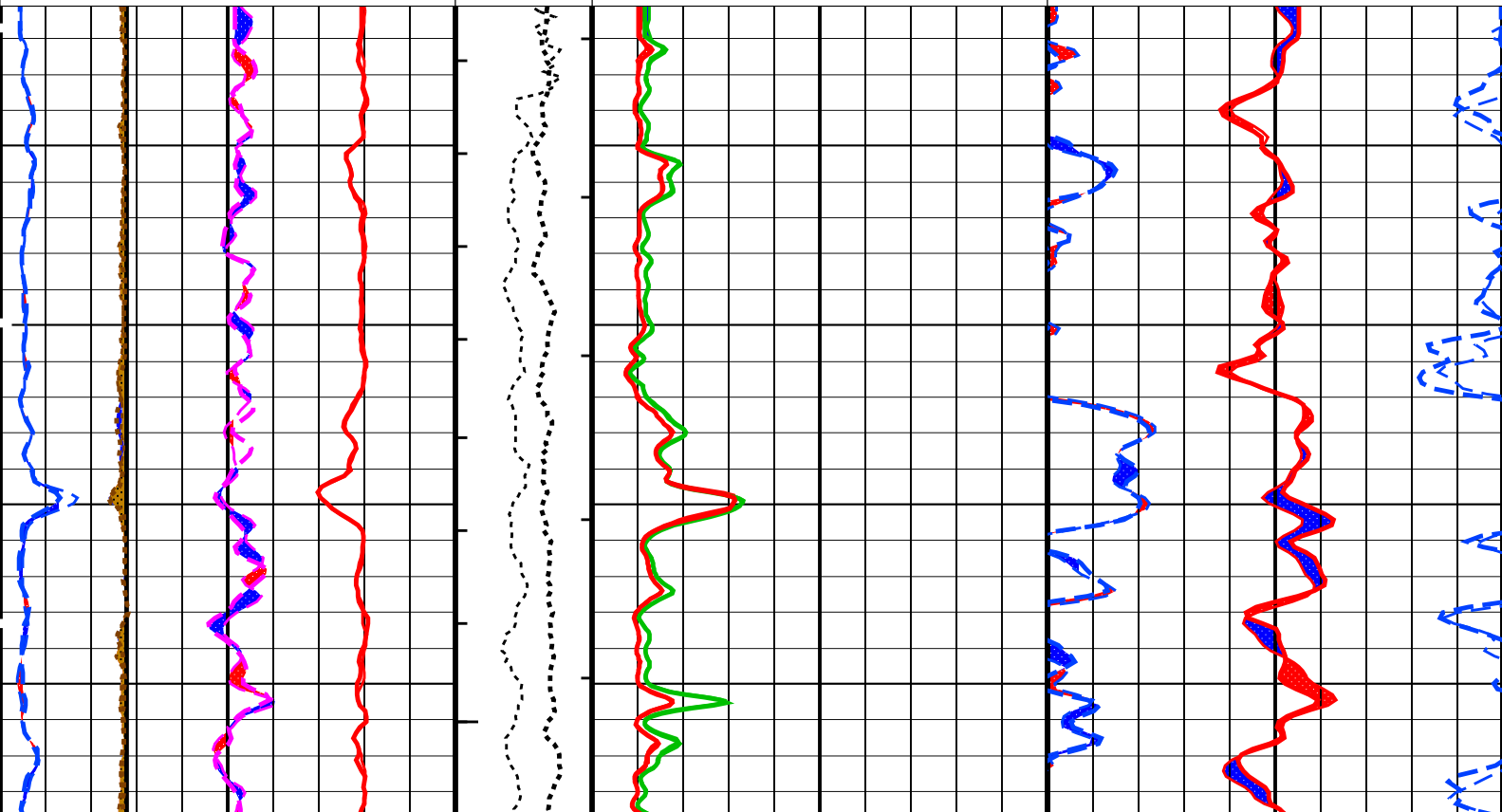
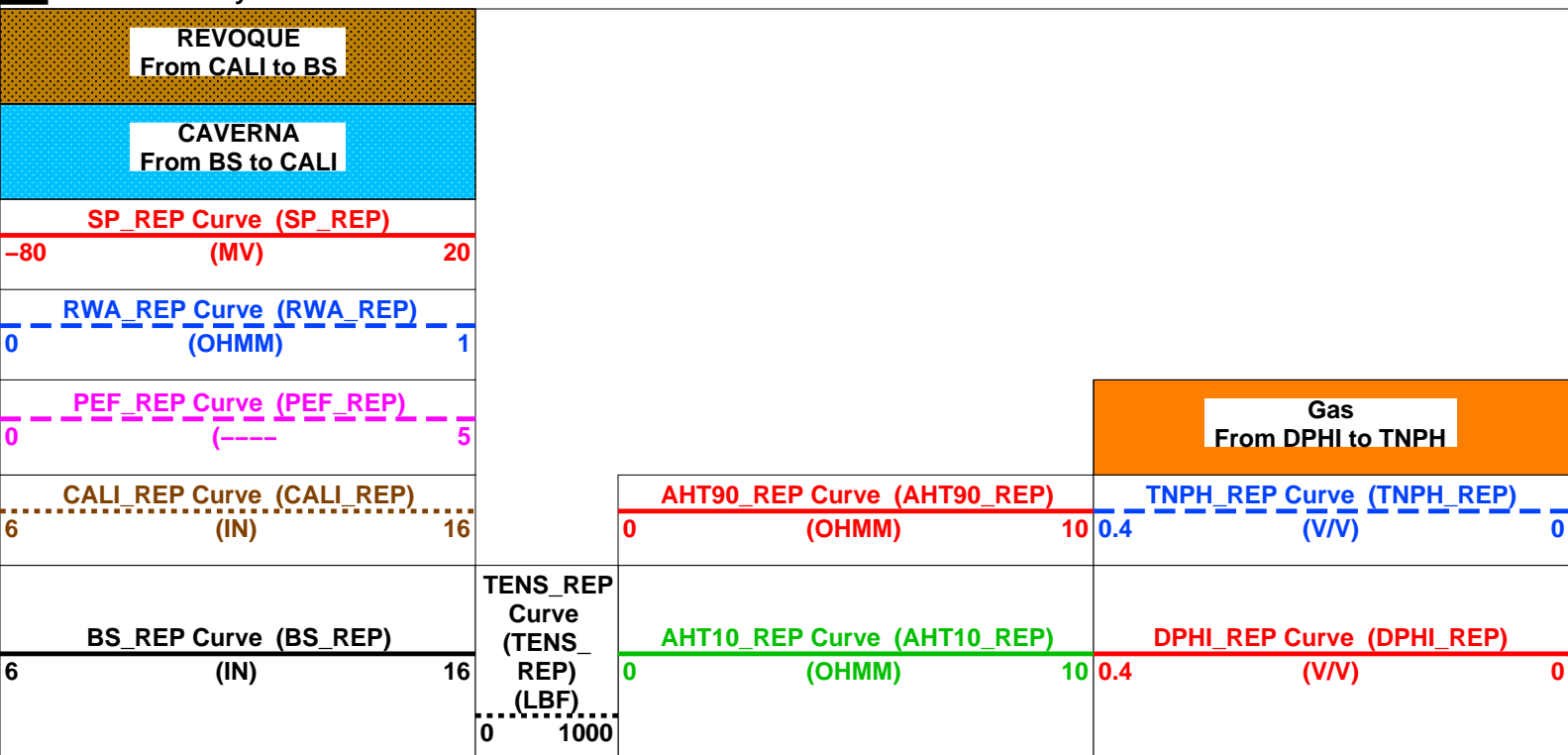
Changed Parameter Summary

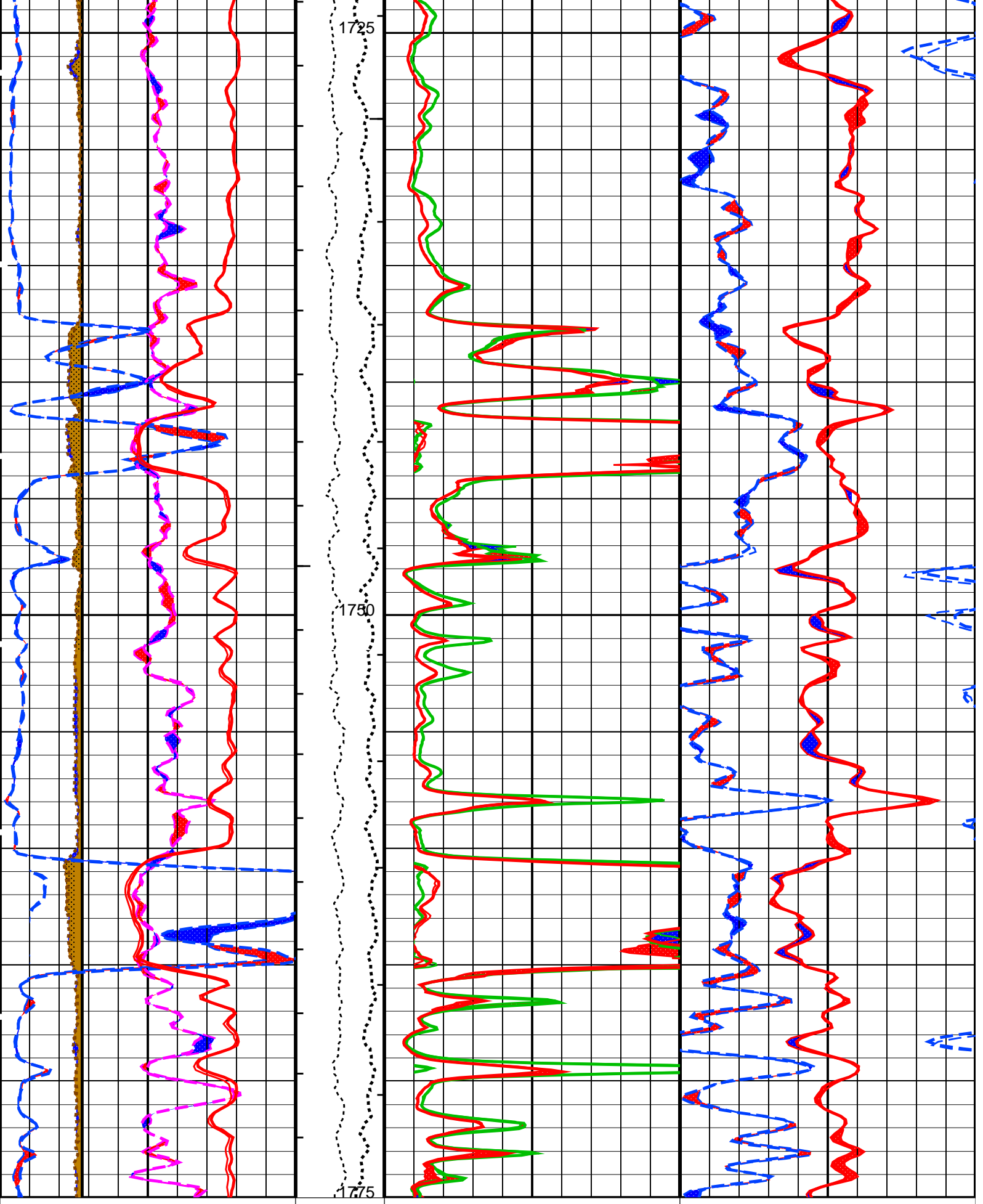
DLIS Name	New Value	Previous Value	Depth & Time
SPDR	0 MV/M	0 MV/M	1775.0 19:01:15

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





BS_REP Curve (BS_REP)
 (IN)

TENS_REP
 Curve (TENS_REP)
 (LBF)

AHT10_REP Curve (AHT10_REP)
 (OHMM)

DPHI_REP Curve (DPHI_REP)
 (VV)

6

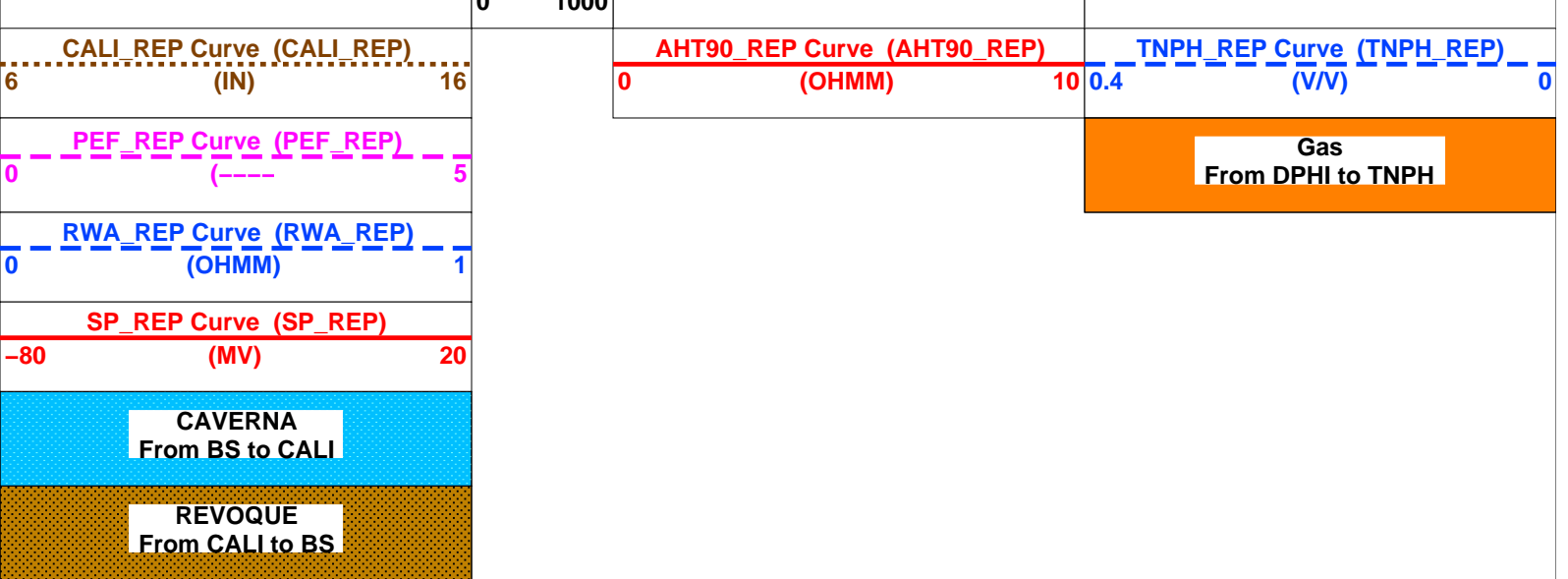
16

0

0.4

0

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
AIT-H: Array Induction Tool - H		
AHBHM	Array Induction Borehole Correction Mode	2_ComputeStandoff
AHBHV	Array Induction Borehole Correction Code Version Number	880
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
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	70 DEGC
FEXP	Form Factor Exponent	2
FNUM	Form Factor Numerator	0.81
FPHI	Form Factor Porosity Source	DPHI
GCSE	Generalized Caliper Selection	CALI
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
ISSBAR	Barite Mud Switch	NOBARITE
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
RTCO	RTCO - Rt Invasion Correction	YES
SHT	Surface Hole Temperature	20 DEGC
SPDR	SP Drift	0 MV/M
SPNV	SP Next Value	-3 MV
LDT-D: Litho Density - D		
BFM	Borehole Fluid Medium	LIQUID
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	70 DEGC
DHC	Density Hole Correction	BS
DPPM	Density Porosity Processing Mode	HIRS
FD	Fluid Density	1 G/C3
GCSE	Generalized Caliper Selection	CALI
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
ISSBAR	Barite Mud Switch	NOBARITE
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
MDEN	Matrix Density	2.65 G/C3
SHT	Surface Hole Temperature	20 DEGC
WMUD	Mud Weight	1.17 G/C3

HLL TR - ETR: High resolution Integrated Logging Tool-DTS

BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	70	DEGC
BSCO	Borehole Salinity Correction Option	YES	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	0.81	
FPHI	Form Factor Porosity Source	DPHI	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	CALI	
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	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	YES	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	YES	
PTCO	Pressure/Temperature Correction Option	YES	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	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	DPHI	
RTCO	RTCO - Rt Invasion Correction	YES	
	ALLRES: Basic Resistivity Transforms		
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90	
RTCO	RTCO - Rt Invasion Correction	YES	
	HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	70	DEGC
FCD	Future Casing (Outer) Diameter	5.5	IN
GCSE	Generalized Caliper Selection	CALI	
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	CALI	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
	STI: Stuck Tool Indicator		
TDL	Total Depth - Logger	1801.30	M
	System and Miscellaneous		
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	350.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	32.30	LB/F
DFD	Drilling Fluid Density	1.17	G/C3
DO	Depth Offset for Playback	0.9	M
DORL	Depth Offset for Repeat Analysis	0.0	M
MST	Mud Sample Temperature	7.20	DEGC
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	3.8800	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1801.3	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: COMBINADA_REP Vertical Scale: 1:200 Graphics File Created: 30-Jun-2006 19:01

OP System Version: 14C0-302
MCM

AIT-H	14C0-302	LDT-D	14C0-302
DTA-A	14C0-302	HILTB-FTB	14C0-302
DTC-H	14C0-302		

Input DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_024LUP	FN:23	PRODUCER	30-Jun-2006 08:23	1805.0 M	1626.4 M
DEFAULT	AIT_LDL_TLD_MCFL_089PUP	FN:42	PRODUCER	30-Jun-2006 18:52	1807.0 M	345.0 M

Output DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_091PUP	FN:48	PRODUCER	30-Jun-2006 19:01
CUST1	AIT_LDL_TLD_MCFL_091PUC	FN:49	CUSTOMER	30-Jun-2006 19:01
CUST2	AIT_LDL_TLD_MCFL_091PUC	FN:50	CUSTOMER	30-Jun-2006 19:01



CHEQUEO EN CAÑERIA

MAXIS Field Log

Input DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_022LUP	FN:21	PRODUCER	30-Jun-2006 08:23	367.6 M	314.9 M
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Integrated Hole/Cement Volume Summary

Hole Volume = 0.37 M3
 Cement Volume = 0.29 M3 (assuming 5.50 IN casing O.D.)
 Computed from 354.9 M to 349.8 M using data channel(s) CALI

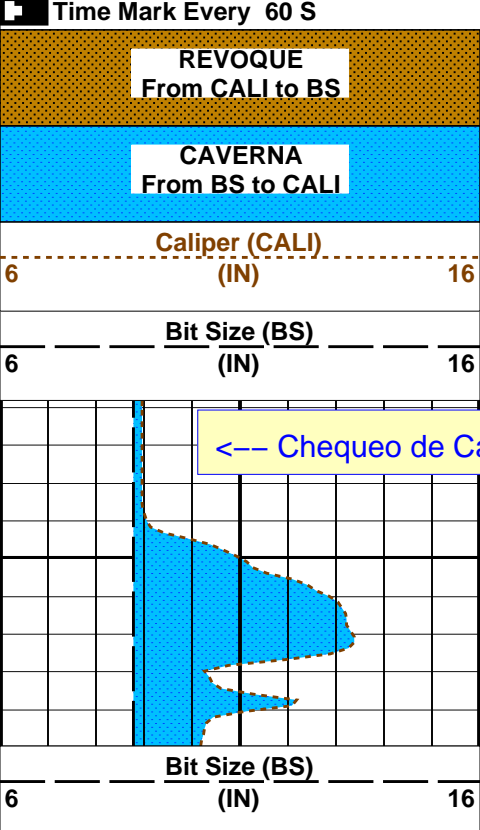
OP System Version: 14C0-302

MCM

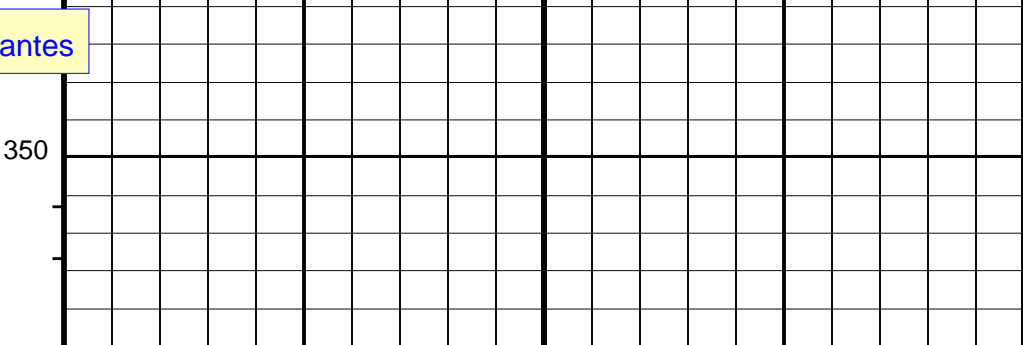
AIT-H	14C0-302	LDT-D	14C0-302
DTA-A	14C0-302	HILTB-FTB	14C0-302
DTC-H	14C0-302		

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



<--- Chequeo de Caliper antes



CAVERNA
From BS to CALI

REVOQUE
From CALI to BS

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	CALI	
	System and Miscellaneous		
BS	Bit Size	8.750	IN
DO	Depth Offset for Playback	-1.0	M
DORL	Depth Offset for Repeat Analysis	0.0	M
PP	Playback Processing	RECOMPUTE	
TD	Total Depth	1801.3	M

Format: CALIPER Vertical Scale: 1:200

Graphics File Created: 30-Jun-2006 19:12

OP System Version: 14C0-302

MCM

AIT-H	14C0-302	LDT-D	14C0-302
DTA-A	14C0-302	HILTB-FTB	14C0-302
DTC-H	14C0-302		

Input DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_022LUP	FN:21	PRODUCER	30-Jun-2006 08:23	367.6 M	314.9 M
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Input DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_022LUP	FN:21	PRODUCER	30-Jun-2006 08:23	367.6 M	314.9 M
DEFAULT	AIT_LDL_TLD_MCFL_089PUP	FN:42	PRODUCER	30-Jun-2006 18:52	1807.0 M	345.0 M

Integrated Hole/Cement Volume Summary

Hole Volume = 0.37 M3

Cement Volume = 0.29 M3 (assuming 5.50 IN casing O.D.)

Computed from 354.9 M to 349.8 M using data channel(s) CALI

OP System Version: 14C0-302

MCM

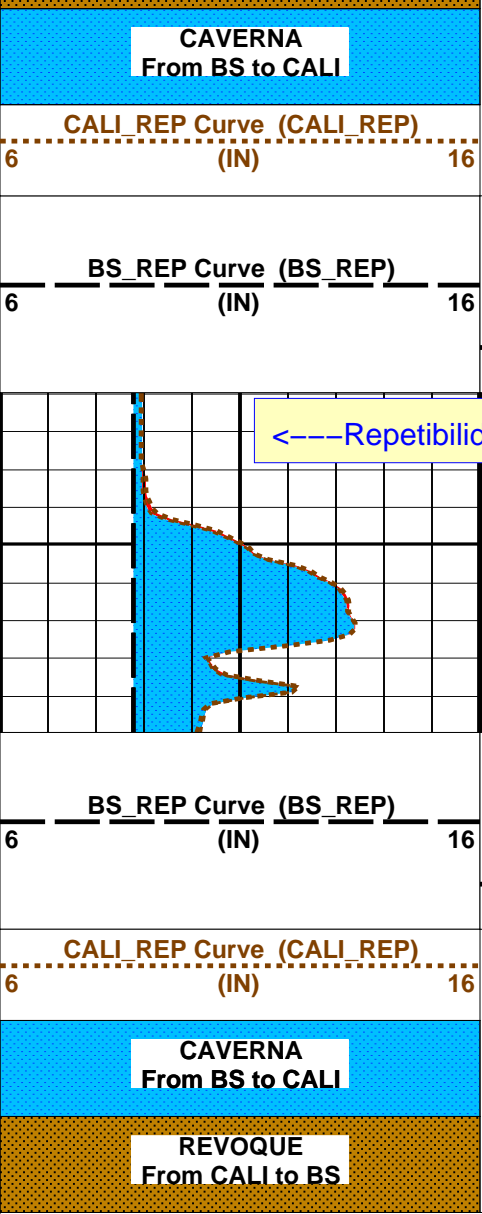
AIT-H	14C0-302	LDT-D	14C0-302
DTA-A	14C0-302	HILTB-FTB	14C0-302
DTC-H	14C0-302		

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

REVOQUE
From CALI to BS



TENS_REP
Curve
(TENS_REP)
(LBF)
0 1000

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	CALI
	System and Miscellaneous	
BS	Bit Size	8.750 IN
DO	Depth Offset for Playback	-1.0 M
DORL	Depth Offset for Repeat Analysis	0.0 M
PP	Playback Processing	RECOMPUTE
TD	Total Depth	1801.3 M

Format: CALIPER_REP Vertical Scale: 1:200 Graphics File Created: 30-Jun-2006 19:12

OP System Version: 14C0-302
MCM

AIT-H	14C0-302	LDT-D	14C0-302
DTA-A	14C0-302	HILTB-FTB	14C0-302
DTC-H	14C0-302		

Input DLIS Files



CALIBRACIONES

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Array Induction Tool – H Wellsite Calibration – Electronics Calibration Check – Thru Cal Mag. & Phase							
Master: 22-Jun-2006 12:20 Before: 28-Jun-2006 17:27							
Thru Cal Magnitude – 0	0	0.6264	0.6274	N/A	N/A	N/A	V
Thru Cal Magnitude – 1	0	1.286	1.288	N/A	N/A	N/A	V
Thru Cal Magnitude – 2	0	0.6373	0.6385	N/A	N/A	N/A	V
Thru Cal Magnitude – 3	0	0.7196	0.7206	N/A	N/A	N/A	V
Thru Cal Magnitude – 4	0	1.349	1.351	N/A	N/A	N/A	V
Thru Cal Magnitude – 5	0	1.958	1.961	N/A	N/A	N/A	V
Thru Cal Magnitude – 6	0	1.966	1.969	N/A	N/A	N/A	V
Thru Cal Magnitude – 7	0	1.400	1.400	N/A	N/A	N/A	V
Phase – 0	0	78.53	78.73	N/A	N/A	N/A	DEG
Phase – 1	0	77.45	77.64	N/A	N/A	N/A	DEG
Phase – 2	0	73.80	73.97	N/A	N/A	N/A	DEG
Phase – 3	0	73.03	73.20	N/A	N/A	N/A	DEG
Phase – 4	0	66.88	67.03	N/A	N/A	N/A	DEG
Phase – 5	0	65.08	65.19	N/A	N/A	N/A	DEG
Phase – 6	0	65.03	65.14	N/A	N/A	N/A	DEG
Phase – 7	0	61.71	61.62	N/A	N/A	N/A	DEG
Array Induction Tool – H Wellsite Calibration – Electronics Calibration Check – Auxilliary							
Master: 22-Jun-2006 12:20 Before: 28-Jun-2006 17:27							
Array Induction SPA Plus	990.5	992.2	991.6	N/A	N/A	N/A	MV
Array Induction SPA Zero	0	0.1053	0.1325	N/A	N/A	N/A	MV
Array Induction Temperature PI	0.9150	0.9191	0.9185	N/A	N/A	N/A	V
Array Induction Temperature Ze	0	0.0001101	0.0001361	N/A	N/A	N/A	V
Array Induction Tool – H Wellsite Calibration – Test Loop Gain Correction							
Master: 22-Jun-2006 12:20							
Test Loop Gain Magnitude – 0	0	1.022	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 1	0	1.021	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 2	0	1.021	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 3	0	1.026	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 4	0	1.005	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 5	0	1.018	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 6	0	1.030	N/A	N/A	N/A	N/A	V
Test Loop Gain Magnitude – 7	0	1.032	N/A	N/A	N/A	N/A	V
Phase – 0	0	2.290	N/A	N/A	N/A	N/A	DEG
Phase – 1	0	0.04832	N/A	N/A	N/A	N/A	DEG
Phase – 2	0	-0.2402	N/A	N/A	N/A	N/A	DEG
Phase – 3	0	0.06847	N/A	N/A	N/A	N/A	DEG
Phase – 4	0	0.06266	N/A	N/A	N/A	N/A	DEG
Phase – 5	0	-0.2160	N/A	N/A	N/A	N/A	DEG
Phase – 6	0	0.1292	N/A	N/A	N/A	N/A	DEG
Phase – 7	0	-0.3307	N/A	N/A	N/A	N/A	DEG
Array Induction Tool – H Wellsite Calibration – Sonde Error Correction							
Master: 22-Jun-2006 12:20							
R Sonde Error Correction – 0	0	-20.22	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 1	0	149.5	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 2	0	111.4	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 3	0	60.65	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 4	0	24.90	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 5	0	12.99	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 6	0	10.15	N/A	N/A	N/A	N/A	MM/M
R Sonde Error Correction – 7	0	10.15	N/A	N/A	N/A	N/A	MM/M

R Sonde Error Correction - 7	0	0.3020	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 0	0	156.8	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 1	0	33.23	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 2	0	-73.81	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 3	0	80.54	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 4	0	22.74	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 5	0	20.38	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 6	0	8.771	N/A	N/A	N/A	N/A	MM/M
X Sonde Error Correction - 7	0	-1.329	N/A	N/A	N/A	N/A	MM/M

Array Induction Tool - H Wellsite Calibration - Mud Gain Correction

Master: 22-Jun-2006 12:20

Coarse - Mag, Real, Imag - 0	0	0.9338	N/A	N/A	N/A	N/A
Coarse - Mag, Real, Imag - 1	0	0.9338	N/A	N/A	N/A	N/A
Coarse - Mag, Real, Imag - 2	0	0.9338	N/A	N/A	N/A	N/A
Fine - Mag, Real, Imag - 0	0	0.9208	N/A	N/A	N/A	N/A
Fine - Mag, Real, Imag - 1	0	0.9208	N/A	N/A	N/A	N/A
Fine - Mag, Real, Imag - 2	0	0.9208	N/A	N/A	N/A	N/A

Litho Density - D Wellsite Calibration - Background Measurement

Master: 15-Jun-2006 16:22 Before: 28-Jun-2006 21:10

LL Background	20.00	18.05	18.07	N/A	N/A	1.000	CPS
LU Background	76.00	69.41	69.61	N/A	N/A	1.000	CPS
LS Background	57.00	52.76	52.88	N/A	N/A	1.000	CPS
LITH Background	5.500	5.198	5.086	N/A	N/A	0.3000	CPS
SS1 Background	16.00	14.75	14.78	N/A	N/A	0.5000	CPS
SS2 Background	11.00	9.994	9.983	N/A	N/A	0.5000	CPS

Litho Density - D Wellsite Calibration - Tool Quality Control Information HV

Master: 15-Jun-2006 16:22 Before: 28-Jun-2006 21:10

LSHV Background	1500	1479	1498	N/A	N/A	N/A	V
SSHV Background	1500	1318	1326	N/A	N/A	N/A	V

Litho Density - D Wellsite Calibration - Detectors Resolution From BKG Measurements

Master: 15-Jun-2006 16:22 Before: 28-Jun-2006 21:10

LS Resolution Background	8.000	8.622	8.600	N/A	N/A	N/A
SS Resolution Background	8.000	9.517	9.438	N/A	N/A	N/A

Litho Density - D Wellsite Calibration - Caliper Calibration

Before: 28-Jun-2006 21:01

Caliper Small Ring	8.000	N/A	8.538	N/A	N/A	N/A	IN
Caliper Large Ring	12.00	N/A	12.97	N/A	N/A	N/A	IN

Litho Density - D Master Calibration - Aluminum Measurement

Master: 15-Jun-2006 16:48

LL Aluminum	90.00	81.09	--	--	--	--	CPS
LU Aluminum	135.0	121.5	--	--	--	--	CPS
LS Aluminum	155.0	141.8	--	--	--	--	CPS
LITH Aluminum	50.00	47.96	--	--	--	--	CPS
SS1 Aluminum	175.0	150.7	--	--	--	--	CPS
SS2 Aluminum	260.0	230.0	--	--	--	--	CPS

Litho Density - D Master Calibration - Litholog Measurement

Master: 15-Jun-2006 16:58

LL Iron	80.00	72.83	--	--	--	--	CPS
LU Iron	120.0	109.2	--	--	--	--	CPS
LS Iron	135.0	127.4	--	--	--	--	CPS
LITH Iron	30.00	30.94	--	--	--	--	CPS
SS1 Iron	155.0	136.7	--	--	--	--	CPS
SS2 Iron	245.0	210.5	--	--	--	--	CPS

Litho Density - D Master Calibration - Spectrum Quality Ratios

Master: 15-Jun-2006 16:58

QRLS Calculated	0.6500	0.6673	--	--	--	--
QRSS Calculated	0.7200	0.6554	--	--	--	--
QRLL Calculated	0.3900	0.3381	--	--	--	--
QLIR Calculated	1.390	1.393	--	--	--	--
QR Calculated	1.000	1.010	--	--	--	--

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

Before: 28-Jun-2006 17:13

Gamma Ray Background	30.00	N/A	32.48	N/A	N/A	N/A	GAPI
Gamma Ray (Jig - Bkg)	153.0	N/A	153.0	N/A	N/A	13.91	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

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

Master: 27-Jun-2006 12:09 Before: 28-Jun-2006 17:16

CNTC Background	32.92	32.92	31.75	N/A	N/A	4.938	CPS
CFTC Background	31.82	31.82	33.05	N/A	N/A	4.773	CPS

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

Master: 27-Jun-2006 12:09

Thermal Near Corr. (Tank)	6031	5332	N/A	N/A	N/A	N/A	CPS
Thermal Far Corr. (Tank)	2793	2296	N/A	N/A	N/A	N/A	CPS
CNTC/CFTC (Tank)	2.159	2.322	N/A	N/A	N/A	N/A	

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

Before: 28–Jun–2006 17:28

Z–Axis Acceleration	9.810	N/A	9.799	N/A	N/A	N/A	M/S2
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The GLS–VJ source activity is acceptable.

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

NCT–B Water Temperature	8.0	DEGC.
Thermal Housing Size	3.367	IN.
NSR–F serial number	1089	

Array Induction Tool – H / Equipment Identification

Primary Equipment:
Rm/SP Bottom Nose
Array Induction Sonde

AHRM – A
AHIS – BA 25

Auxiliary Equipment:

Array Induction Tool – H Wellsite Calibration

Electronics Calibration Check – Thru Cal Mag. & Phase

Idx	Phase	Value	Thru Cal Magnitude V	Nominal	Value	Phase DEG	Nominal
0	Master	0.6264		0.6050	78.53		71.00
	Before	0.6274			78.73		
1	Master	1.286		1.270	77.45		70.00
	Before	1.288			77.64		
2	Master	0.6373		0.6230	73.80		66.00
	Before	0.6385			73.97		
3	Master	0.7196		0.7040	73.03		65.00
	Before	0.7206			73.20		
4	Master	1.349		1.337	66.88		59.00
	Before	1.351			67.03		
5	Master	1.958		1.955	65.08		57.00
	Before	1.961			65.19		
6	Master	1.966		1.955	65.03		57.00
	Before	1.969			65.14		
7	Master	1.400		1.415	61.71		53.00
	Before	1.400			61.62		
		60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)	Nom –60.00 (Minimum)	(Nominal)	Nom + 60.00 (Maximum)

Master: 22–Jun–2006 12:20

Before: 28–Jun–2006 17:27

Array Induction Tool – H Wellsite Calibration

Electronics Calibration Check – Auxilliary

Phase	Array Induction SPA Plus MV	Value	Phase	Array Induction SPA Zero MV	Value
Master		992.2	Master		0.1053
Before		991.6	Before		0.1325
		941.0 (Minimum)			–50.00 (Minimum)
		990.5 (Nominal)			0 (Nominal)
		1040 (Maximum)			50.00 (Maximum)
Phase	Array Induction Temperature Plus V	Value	Phase	Array Induction Temperature Zero V	Value

Master		0.9191	Master		0.0001101
Before		0.9185	Before		0.0001361
0.8700 (Minimum)		0.9150 (Nominal)	0.9600 (Maximum)	-0.05000 (Minimum)	
			0 (Nominal)	0.05000 (Maximum)	
Master: 22-Jun-2006 12:20			Before: 28-Jun-2006 17:27		

Array Induction Tool – H Wellsite Calibration							
Test Loop Gain Correction							
Idx	Value	Test Loop Gain Magnitude V			Value	Phase DEG	
0	1.022				2.290		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
1	1.021				0.04832		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
2	1.021				-0.2402		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
3	1.026				0.06847		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
4	1.005				0.06266		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
5	1.018				-0.2160		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
6	1.030				0.1292		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
7	1.032				-0.3307		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
Master: 22-Jun-2006 12:20							

Array Induction Tool – H Wellsite Calibration							
Sonde Error Correction							
Idx	Value	R Sonde Error Correction MM/M			Value	X Sonde Error Correction MM/M	
0	-20.22				156.8		
		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)	-2250 (Minimum)	0 (Nominal)	2250 (Maximum)
1	149.5				33.23		
		114.0 (Minimum)	159.0 (Nominal)	204.0 (Maximum)	-625.0 (Minimum)	0 (Nominal)	625.0 (Maximum)
2	111.4				-73.81		
		66.00 (Minimum)	111.0 (Nominal)	156.0 (Maximum)	-350.0 (Minimum)	0 (Nominal)	350.0 (Maximum)
3	60.65				80.54		
		39.00 (Minimum)	64.00 (Nominal)	89.00 (Maximum)	-250.0 (Minimum)	0 (Nominal)	250.0 (Maximum)
4	24.90				22.74		
		15.00 (Minimum)	25.00 (Nominal)	35.00 (Maximum)	-63.00 (Minimum)	0 (Nominal)	63.00 (Maximum)
5	12.99				20.38		
		4.000 (Minimum)	14.00 (Nominal)	24.00 (Maximum)	-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)
6	10.15				8.771		
		5.000 (Minimum)	10.00 (Nominal)	15.00 (Maximum)	-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)
7	0.3020				-1.329		
		-5.000 (Minimum)	0 (Nominal)	5.000 (Maximum)	-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)
Master: 22-Jun-2006 12:20							

Array Induction Tool – H Wellsite Calibration					
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Mud Gain Correction

Idx	Value	Coarse – Mag, Real, Imag			Value	Fine – Mag, Real, Imag		
0	0.9338				0.9208			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
1	0.9338				0.9208			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
2	0.9338				0.9208			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)

Master: 22-Jun-2006 12:20

Array Induction Tool – H Master Calibration

Electronics Calibration Check – Thru Cal Mag. & Phase

Idx	Phase	Value	Thru Cal Magnitude V			Nominal	Value	Phase DEG			Nominal
0	Master	0.6264				0.6050	78.53				71.00
1	Master	1.286				1.270	77.45				70.00
2	Master	0.6373				0.6230	73.80				66.00
3	Master	0.7196				0.7040	73.03				65.00
4	Master	1.349				1.337	66.88				59.00
5	Master	1.958				1.955	65.08				57.00
6	Master	1.966				1.955	65.03				57.00
7	Master	1.400				1.415	61.71				53.00
			60.00 % (Minimum)	(Nominal)	140.0 % (Maximum)		Nom -60.00 (Minimum)	(Nominal)	Nom + 60.00 (Maximum)		

Master: 22-Jun-2006 12:20

Array Induction Tool – H Master Calibration

Electronics Calibration Check – Auxilliary

Phase	Array Induction SPA Plus MV			Value	Phase	Array Induction SPA Zero MV			Value
Master				992.2	Master				0.1053
	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				0.9191	Master				0.0001101
	0.8700 (Minimum)	0.9150 (Nominal)	0.9600 (Maximum)			-0.05000 (Minimum)	0 (Nominal)	0.05000 (Maximum)	

Master: 22-Jun-2006 12:20

Array Induction Tool – H Master Calibration

Test Loop Gain Correction

Idx	Value	Test Loop Gain Magnitude V			Value	Phase DEG		
0	1.022				2.290			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
1	1.021				0.04832			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
2	1.021				-0.2402			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
3	1.026				0.06847			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
4	1.005				0.06266			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
5	1.018				-0.2160			
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
6	1.030				0.1292			
		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)
7	1.032					-0.3307		
		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)

Master: 22-Jun-2006 12:20

Array Induction Tool – H Master Calibration								
Sonde Error Correction								
Idx	Value	R Sonde Error Correction MM/M			Value	X Sonde Error Correction MM/M		
0	-20.22				156.8			
		-231.0 (Minimum)	-56.00 (Nominal)	119.0 (Maximum)		-2250 (Minimum)	0 (Nominal)	2250 (Maximum)
1	149.5				33.23			
		114.0 (Minimum)	159.0 (Nominal)	204.0 (Maximum)		-625.0 (Minimum)	0 (Nominal)	625.0 (Maximum)
2	111.4				-73.81			
		66.00 (Minimum)	111.0 (Nominal)	156.0 (Maximum)		-350.0 (Minimum)	0 (Nominal)	350.0 (Maximum)
3	60.65				80.54			
		39.00 (Minimum)	64.00 (Nominal)	89.00 (Maximum)		-250.0 (Minimum)	0 (Nominal)	250.0 (Maximum)
4	24.90				22.74			
		15.00 (Minimum)	25.00 (Nominal)	35.00 (Maximum)		-63.00 (Minimum)	0 (Nominal)	63.00 (Maximum)
5	12.99				20.38			
		4.000 (Minimum)	14.00 (Nominal)	24.00 (Maximum)		-50.00 (Minimum)	0 (Nominal)	50.00 (Maximum)
6	10.15				8.771			
		5.000 (Minimum)	10.00 (Nominal)	15.00 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)
7	0.3020				-1.329			
		-5.000 (Minimum)	0 (Nominal)	5.000 (Maximum)		-30.00 (Minimum)	0 (Nominal)	30.00 (Maximum)

Master: 22-Jun-2006 12:20

Array Induction Tool – H Master Calibration								
Mud Gain Correction								
Idx	Value	Coarse – Mag, Real, Imag			Value	Fine – Mag, Real, Imag		
0	0.9338				0.9208			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
1	0.9338				0.9208			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
2	0.9338				0.9208			
		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)

Master: 22-Jun-2006 12:20

Litho Density – D / Equipment Identification

Primary Equipment:

Nuclear Services Cartridge	NSC – E	2772
Powered Gamma Detector	PGD – G	901
Gamma Source Radioactive	GSR – J	3766

Auxiliary Equipment:

Density Resistivity Sonde	DRS – C	6934
Electronics Cartridge Housing	ECH – MKA	2777
Powered Detector Housing	PDH – L	840

Litho Density – D Wellsite Calibration								
Background Measurement								
Phase	LL Background CPS	Value	Phase	LU Background CPS	Value	Phase	LS Background CPS	Value
Master		18.95	Master		60.44	Master		52.76

Master		18.07	Master		69.61	Master		52.88		
Before		5.086	Before		14.78	Before		9.983		
	15.00 (Minimum)	20.00 (Nominal)	25.00 (Maximum)	58.00 (Minimum)	76.00 (Nominal)	94.00 (Maximum)	43.00 (Minimum)	57.00 (Nominal)	72.00 (Maximum)	
Phase	LITH Background CPS			Value	Phase	SS1 Background CPS			Value	
Master				5.198	Master				14.75	
Before				5.086	Before				14.78	
	4.000 (Minimum)	5.000 (Nominal)	7.000 (Maximum)		12.00 (Minimum)	16.00 (Nominal)	19.50 (Maximum)	8.000 (Minimum)	11.00 (Nominal)	13.50 (Maximum)
Master: 15-Jun-2006 16:22					Before: 28-Jun-2006 21:10					

Litho Density – D Wellsite Calibration									
Detectors Resolution From BKG Measurements									
Phase	LS Resolution Background			Value	Phase	SS Resolution Background			Value
Master				8.622	Master				9.517
Before				8.600	Before				9.438
	5.000 (Minimum)	8.000 (Nominal)	11.50 (Maximum)		5.000 (Minimum)	8.000 (Nominal)	11.50 (Maximum)		
Master: 15-Jun-2006 16:22					Before: 28-Jun-2006 21:10				

Litho Density – D Master Calibration									
Aluminum Measurement									
Phase	LL Aluminum CPS			Value	Phase	LU Aluminum CPS			Value
Master				81.09	Master				121.5
	70.00 (Minimum)	90.00 (Nominal)	125.0 (Maximum)		100.0 (Minimum)	135.0 (Nominal)	194.0 (Maximum)		
Phase	LITH Aluminum CPS			Value	Phase	SS1 Aluminum CPS			Value
Master				47.96	Master				150.7
	35.00 (Minimum)	50.00 (Nominal)	74.00 (Maximum)		125.0 (Minimum)	175.0 (Nominal)	256.0 (Maximum)		
Phase					Phase	SS2 Aluminum CPS			Value
Master					Master				230.0
					210.0 (Minimum)	260.0 (Nominal)	353.0 (Maximum)		
Master: 15-Jun-2006 16:48									

Litho Density – D Master Calibration									
Litholog Measurement									
Phase	LL Iron CPS			Value	Phase	LU Iron CPS			Value
Master				72.83	Master				109.2
	60.00 (Minimum)	80.00 (Nominal)	114.0 (Maximum)		85.00 (Minimum)	120.0 (Nominal)	177.0 (Maximum)		
Phase	LITH Iron CPS			Value	Phase	SS1 Iron CPS			Value
Master				30.94	Master				136.7
	15.00 (Minimum)	30.00 (Nominal)	51.00 (Maximum)		105.0 (Minimum)	155.0 (Nominal)	234.0 (Maximum)		
Phase					Phase	SS2 Iron CPS			Value
Master					Master				210.5
					190.0 (Minimum)	245.0 (Nominal)	325.0 (Maximum)		
Master: 15-Jun-2006 16:58									

Litho Density – D Master Calibration											
Spectrum Quality Ratios											
Phase	QRLS Calculated			Value	Phase	QRSS Calculated			Value		
Master				0.6673	Master				0.6554		
	0.6000 (Minimum)	0.6500 (Nominal)	0.7000 (Maximum)		0.6200 (Minimum)	0.7200 (Nominal)	0.8200 (Maximum)				
Phase	QLIR Calculated			Value	Phase	QR Calculated			Value		
Master				1.393	Master				1.010		
	1.290 (Minimum)	1.390 (Nominal)	1.450 (Maximum)		0.9800 (Minimum)	1.000 (Nominal)	1.020 (Maximum)				
								Phase	QRLI Calculated	Value	
								Master		0.3381	
									0.2900 (Minimum)	0.3900 (Nominal)	0.4500 (Maximum)
Master: 15-Jun-2006 16:58											

High resolution Integrated Logging Tool-DTS / Equipment Identification

- | | | |
|---|----------|------|
| Primary Equipment: | | |
| HILT Gamma-Ray Neutron Sonde-DTS | HGNS – B | 704 |
| HILT Gamma-Ray Device | HGR – | |
| HILT Neutron Detector with Alpha Source | HCNT – | |
| Z-Axis Accelerometer | HACC – | |
| Neutron Logging Source | NLS – KL | |
| Neutron Source Radioactive | NSR – F | 1000 |

Neutron Source Radioactive
 Compensated Neutron Box
 HTBC Communication Assembly DTS Mode

NSR - F
 CNB - AB
 HMCA -

1069

Auxiliary Equipment:
 Neutron Calibration Tank
 Gamma Source Radioactive

NCT - B
 GSR - U/Y

High resolution Integrated Logging Tool-DTS Wellsite Calibration											
Detector Calibration											
Phase	Gamma Ray Background	GAPI	Value	Phase	Gamma Ray (Jig - Bkg)	GAPI	Value	Phase	Gamma Ray (Calibrated)	GAPI	Value
Before			32.48	Before			153.0	Before			165.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		139.1 (Minimum)	153.0 (Nominal)	167.0 (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)

Before: 28-Jun-2006 17:13

High resolution Integrated Logging Tool-DTS Wellsite Calibration								
Zero Measurement								
Phase	CNTC Background	CPS	Value	Phase	CFTC Background	CPS	Value	
Master			32.92	Master			31.82	
Before			31.75	Before			33.05	
	5.000 (Minimum)	32.92 (Nominal)	40.00 (Maximum)		5.000 (Minimum)	31.82 (Nominal)	40.00 (Maximum)	

Master: 27-Jun-2006 12:09 Before: 28-Jun-2006 17:16

High resolution Integrated Logging Tool-DTS Wellsite Calibration											
Ratio Measurement											
Phase	Thermal Near Corr. (Tank)	CPS	Value	Phase	Thermal Far Corr. (Tank)	CPS	Value	Phase	CNTC/CFTC (Tank)	Value	
Master			5332	Master			2296	Master			2.322
	5000 (Minimum)	6031 (Nominal)	7200 (Maximum)		2075 (Minimum)	2793 (Nominal)	3125 (Maximum)		2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)

Master: 27-Jun-2006 12:09

High resolution Integrated Logging Tool-DTS Wellsite Calibration			
Accelerometer Calibration			
Phase	Z-Axis Acceleration	M/S2	Value
Before			9.799
	9.610 (Minimum)	9.810 (Nominal)	10.01 (Maximum)

Before: 28-Jun-2006 17:28

High resolution Integrated Logging Tool-DTS Master Calibration							
Zero Measurement							
Phase	CNTC Background	CPS	Value	Phase	CFTC Background	CPS	Value
Master			32.92	Master			31.82
	5.000 (Minimum)	32.92 (Nominal)	40.00 (Maximum)		5.000 (Minimum)	31.82 (Nominal)	40.00 (Maximum)

Master: 27-Jun-2006 12:09

High resolution Integrated Logging Tool-DTS Master Calibration											
Tank Measurement											
Phase	Thermal Near Corr. (Tank)	CPS	Value	Phase	Thermal Far Corr. (Tank)	CPS	Value	Phase	CNTC/CFTC (Tank)	Value	
Master			5332	Master			2296	Master			2.322
	5000 (Minimum)	6031 (Nominal)	7200 (Maximum)		2075 (Minimum)	2793 (Nominal)	3125 (Maximum)		2.120 (Minimum)	2.159 (Nominal)	2.540 (Maximum)

Master: 27-Jun-2006 12:09

COMPANIA: YPF S.A.
POZO: YPF.Ch.EA-695
CAMPO: EL ALBA
PROVINCIA: CHUBUT
PAIS: ARGENTINA

PRIMERA LECTURA	1798.9 m
PROFUNDIDAD PERFIL	1801.3 m
PROF. PERFORADOR	1800 m
BUJE DE VASTAGO	666.45 m
MESA ROTATIVA	666.15 m
NIVEL TERRENO	661.9 m

COMBINADA

Schlumberger

ESCALA: 1/200



ALTA Y BAJA DE POZOS

Gordillo/MERCADO fax 4355

Para:

De:

FECHA: 27-oct-06

ZONA: MANANTIALES BEHR

POZO	SISTEMA COL. PETROLEO	SIST.EXTR.	NVO./REP./REACT.	TIPO POZO	SISTEMA COL. PET	SISTEMA COL. GAS	NOMBRE COLECTOR GAS	FECHA ALTA	BRUTA	%	AGUA	PET	GAS (m3/d)	N° CELDA	GRUPO
EA-695	BATERIA EL ALBA 2	BBEO.MEC	ENTRA AL TOTAL	PROD.PET	SI	SI	UNIDAD DE SEPARACIÓN	01/10/2006	2,0	35,0%	0,70	1,30	0,0	EL ALBA	EL ALBA 2
			POZO NUEVO				EL ALBA 2								
RA-215	TKS.RA 201	PCP	ENTRA ALTOTAL SALE RTP	Prod.Pet	SI	NO		03/10/2006	8,4	98,0%	8,23	0,17		RESTINGA ALI	RESTINGA ALI 1
ASD-422	Bateria San Diego	BBEO.ELECTRO	ENTRA ALTOTAL SALE RTP	Prod.Pet	SI	SI	Unidad de separ. San Diego	20/10/2006	183,0	97,90%	179,2	3,84	0,0	San Diego	San Diego
<p>.....</p> <p>FIRMA RESERVORIOS</p>													<p>.....</p> <p>Ergas Juan Eduardo</p> <p>FIRMA PRODUCCIÓN</p>		

v.09.07.2000

VERSION: 1.64

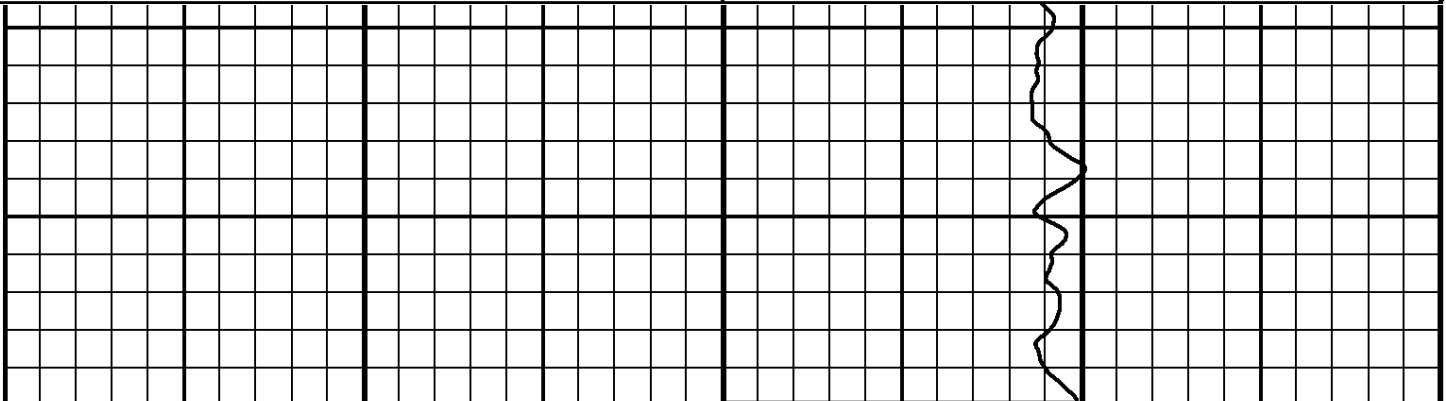
V. ESTADISTICA

EA695VE

FINISH DEPTH: 824.9 METERS DIRECTION: TIME DATE: 07/03/2006 TIME: 23:16 MODE: ORIGINAL

NEUTRON

0 Unid. API 300



NEUTRON

0 Unid. API 300

START DEPTH: 824.9 METERS DIRECTION: TIME DATE: 07/03/2006 TIME: 23:15 MODE: ORIGINAL

EA695VE

V. ESTADISTICA

v.09.07.2000

VERSION: 1.64

VERSION: 1.64

CANERIA LIBRE

EA695CL

FINISH DEPTH: 830.8 METERS DIRECTION: UP DATE: 07/03/2006 TIME: 23:33 MODE: ORIGINAL

ARRIBO CAN. LIBRE

CBL 3' AMP.

CCL

200 uSeg. 1200 0 %Can.Libre 10 -1800 mV. 200

ENERGIA VARIABLE

VDL 5'

CBL 3'

TIEMPO DE TRANSITO

0 85 200 uSeg. 1200 0 %Can.Libre 100 400 uSeg. 200

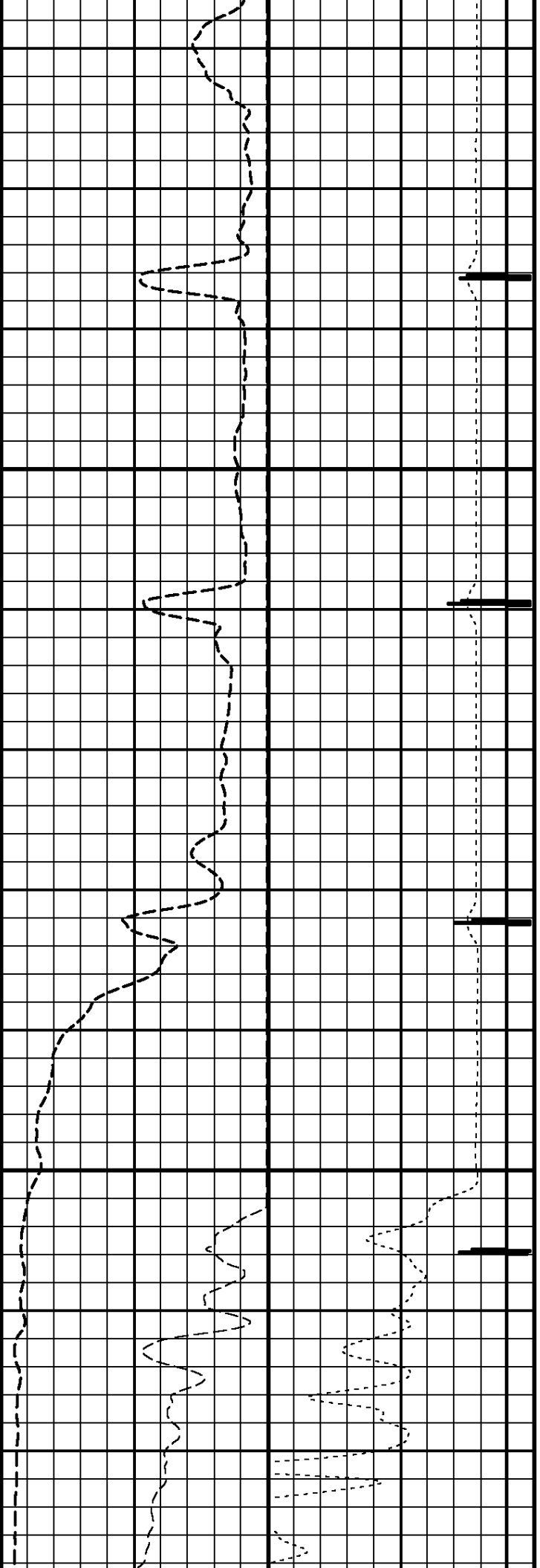
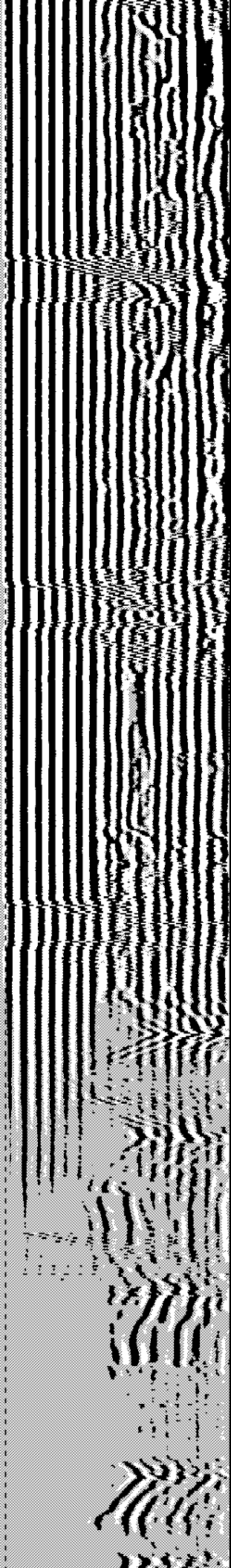
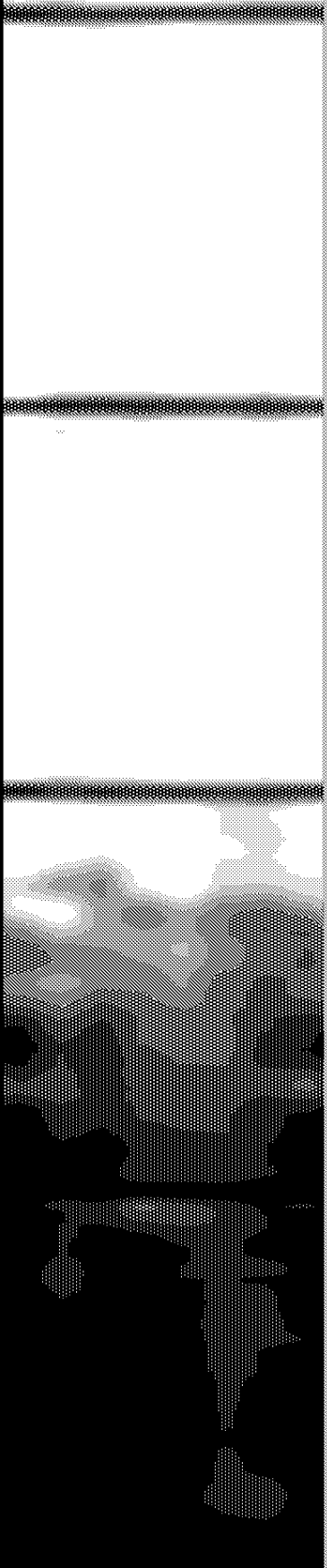
TENSION

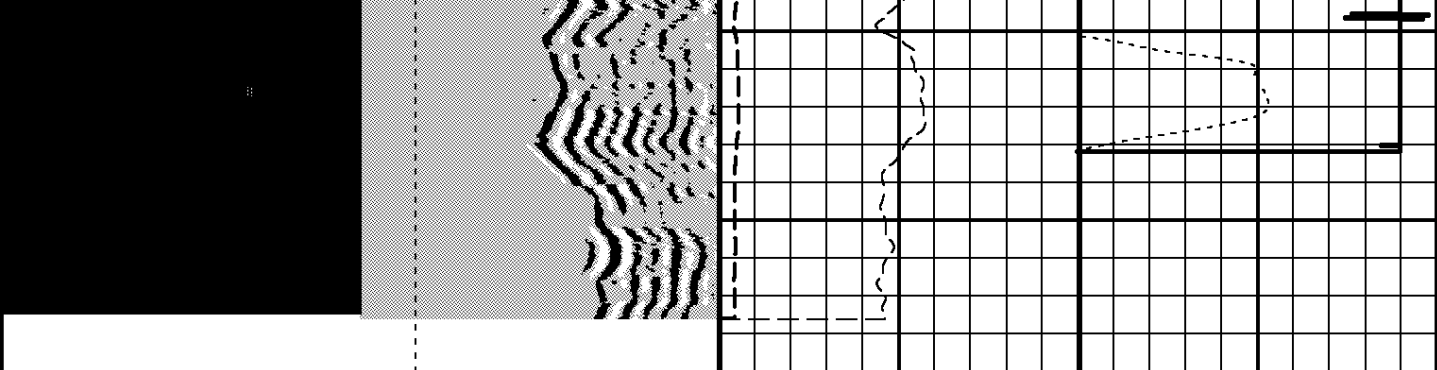
0 1000



850

875





TENSION 0 1000			
<u>ENERGIA VARIABLE</u> 0 85	<u>VDL 5'</u> 200 uSeg. 1200	<u>CBL 3'</u> 0 %Can.Libre 100	<u>TIEMPO DE TRANSITO</u> 400 uSeg. 200
	<u>ARRIBO CAN. LIBRE</u> 200 uSeg. 1200	<u>CBL 3' AMP.</u> 0 %Can.Libre 10	<u>CCL</u> -1800 mV. 200

START DEPTH: **899.1 METERS** DIRECTION: **UP** DATE: **07/03/2006** TIME: **23:31** MODE: **ORIGINAL**
EA695CL

CANERIA LIBRE

VERSION: 1.64

VERSION: 1.64

TRAMO PRINCIPAL

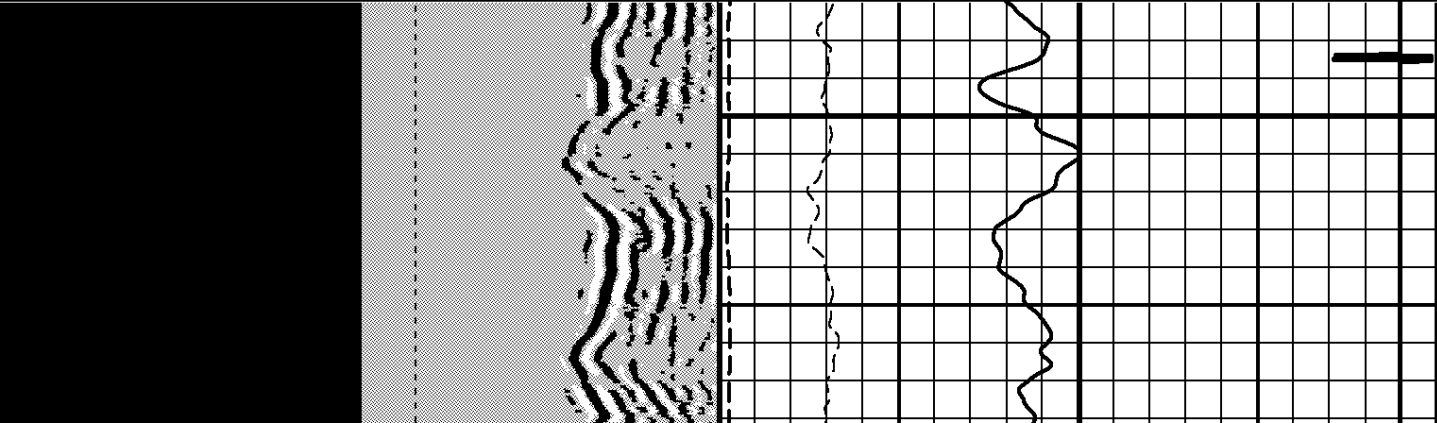
EA695TP

FINISH DEPTH: **948.3 METERS** DIRECTION: **UP** DATE: **07/04/2006** TIME: **00:07** MODE: **ORIGINAL**

				NEUTRON	
				Unid.API 0 300	
<u>ENERGIA VARIABLE</u> 0 85	<u>VDL 5'</u> 200 uSeg. 1200	<u>CBL 3' AMP.</u> 0 %Can.Libre 10	<u>CCL</u> -1800 mV. 200		
	<u>ARRIBO CAN. LIBRE</u> 200 uSeg. 1200	<u>CBL 3'</u> 0 %Can.Libre 100	<u>TIEMPO DE TRANSITO</u> 400 uSeg. 200		

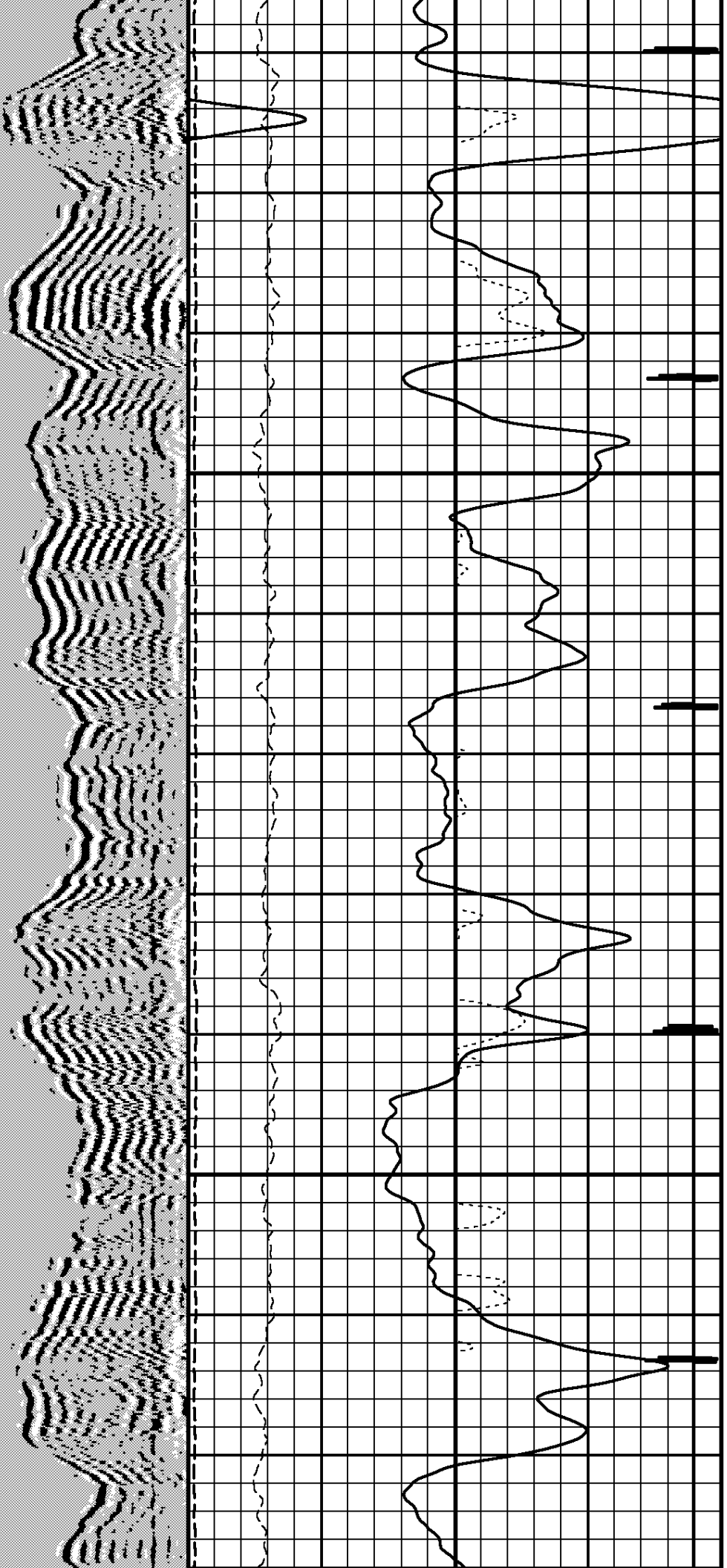
TENSION 0 1000			
--------------------------	--	--	--

950



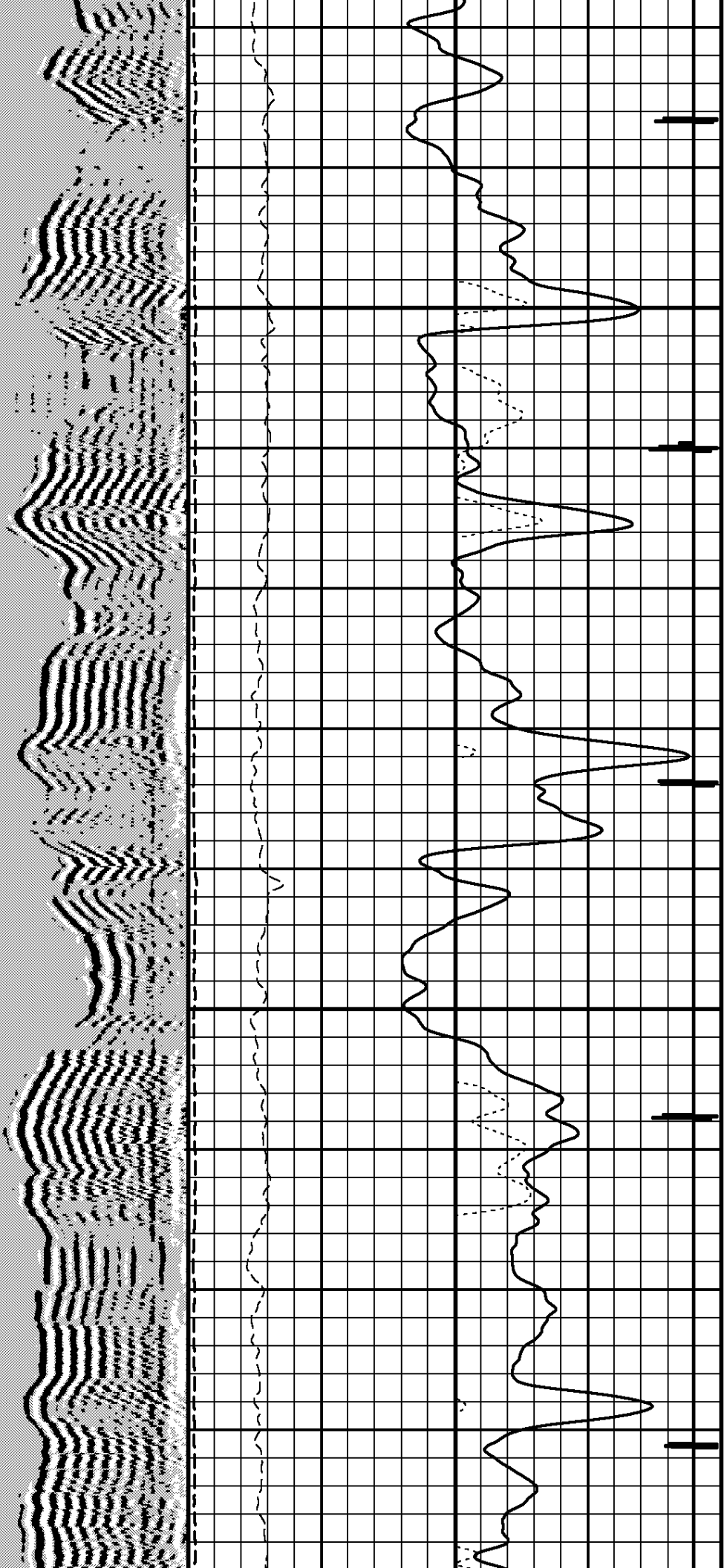
975

1000



1025

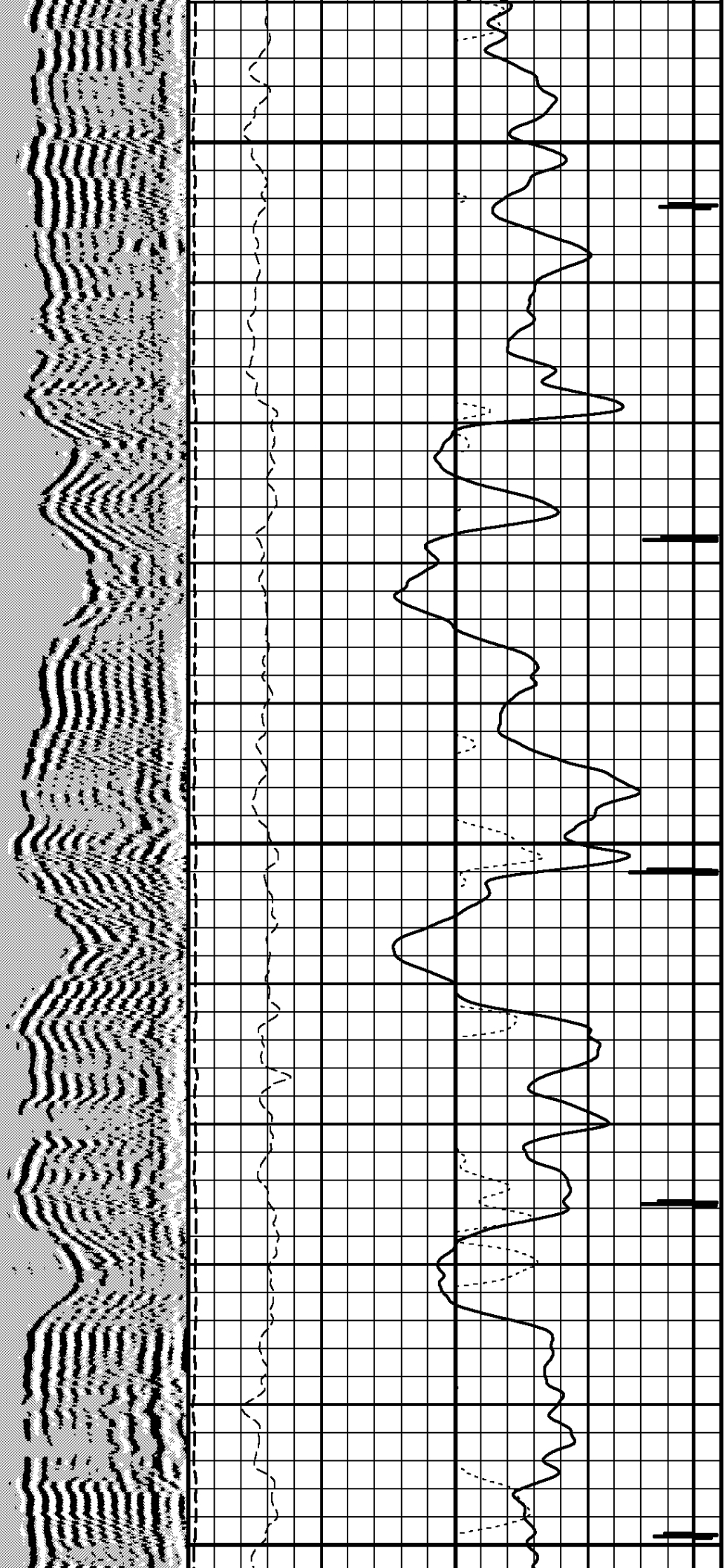
1050



1075

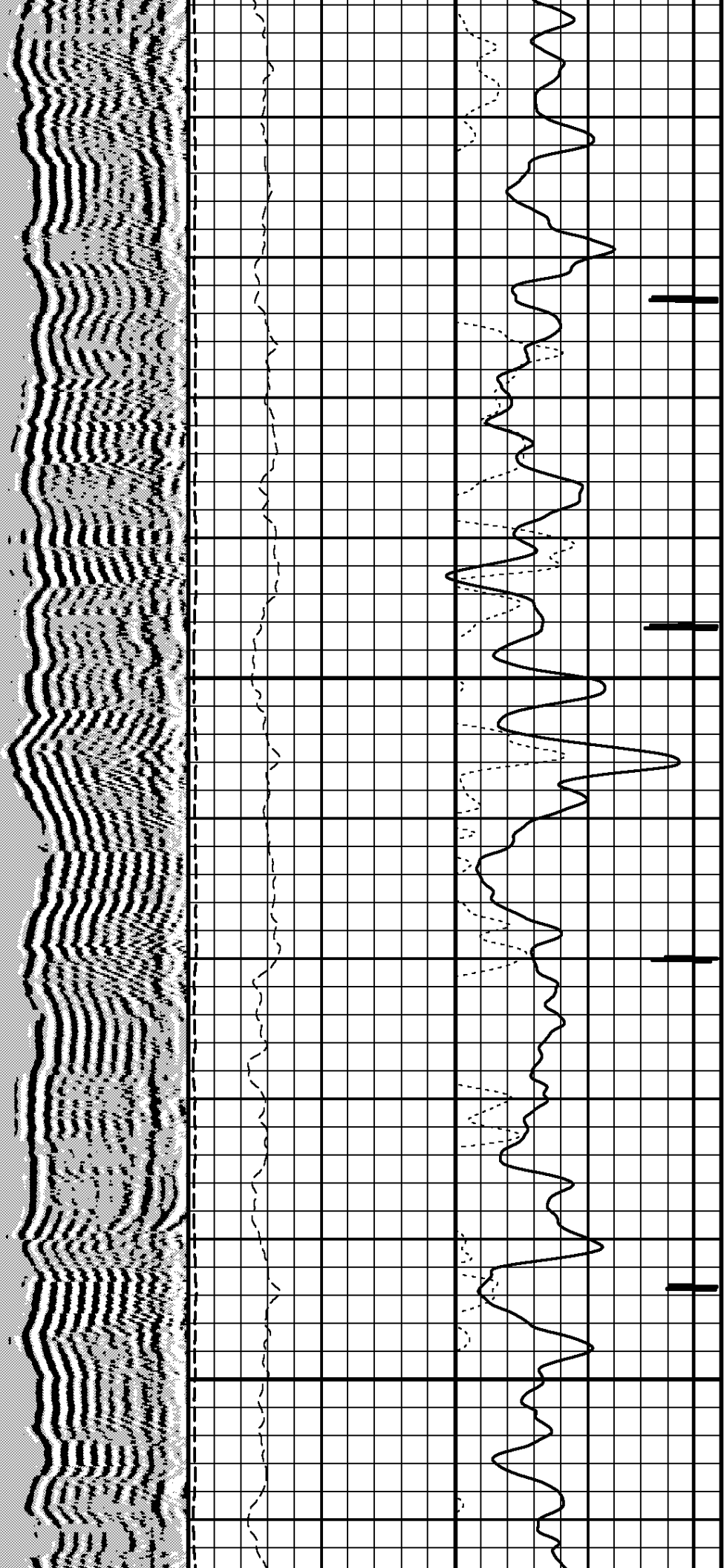
1100

1125



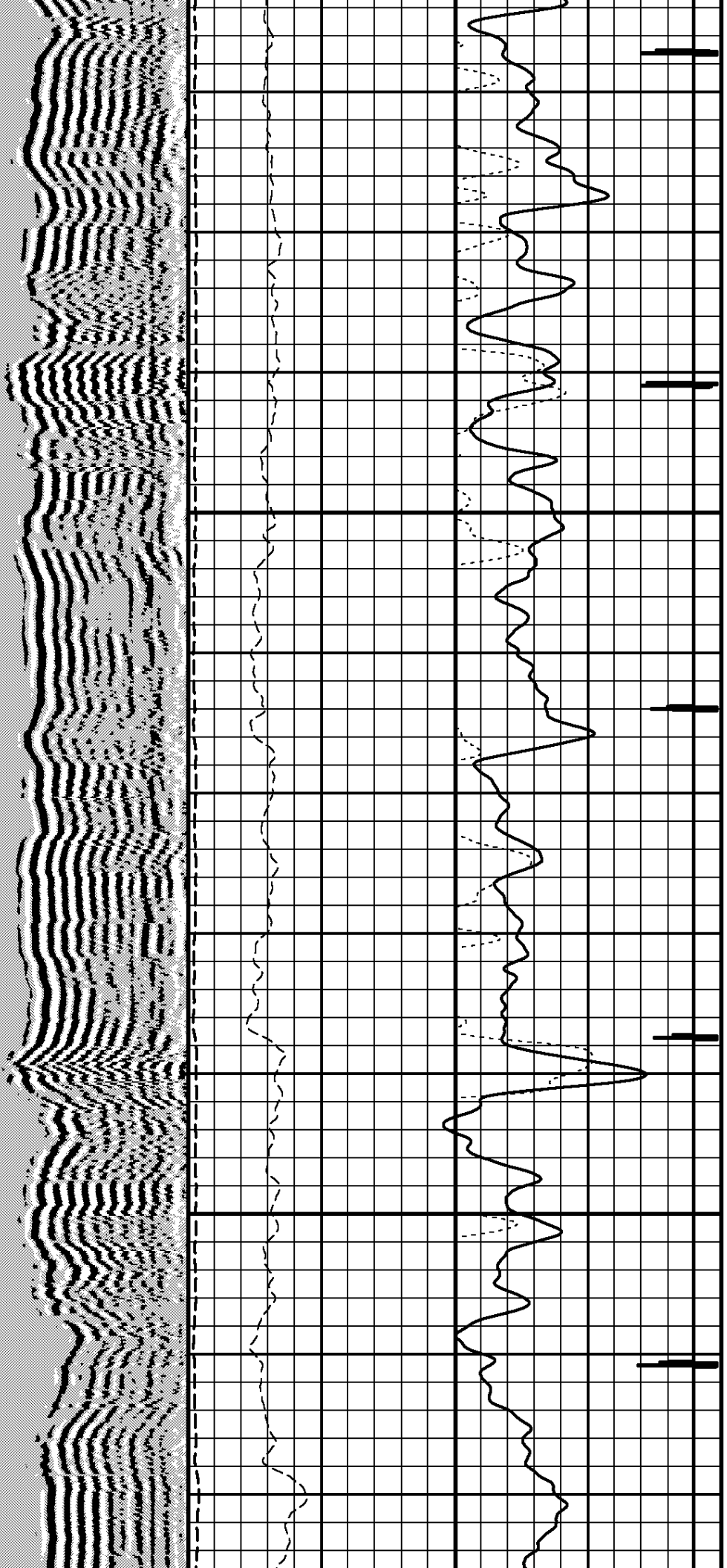
1150

1175



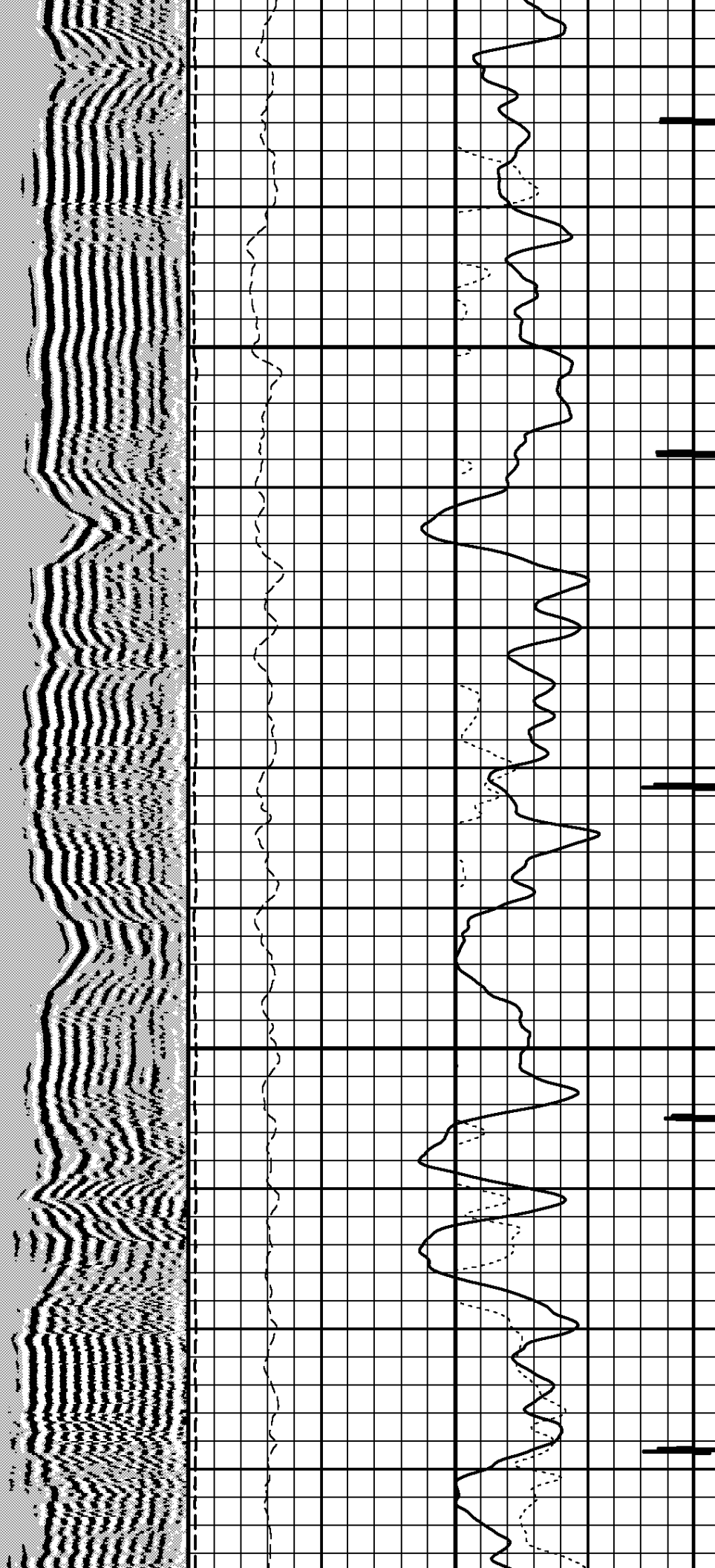
1200

1225



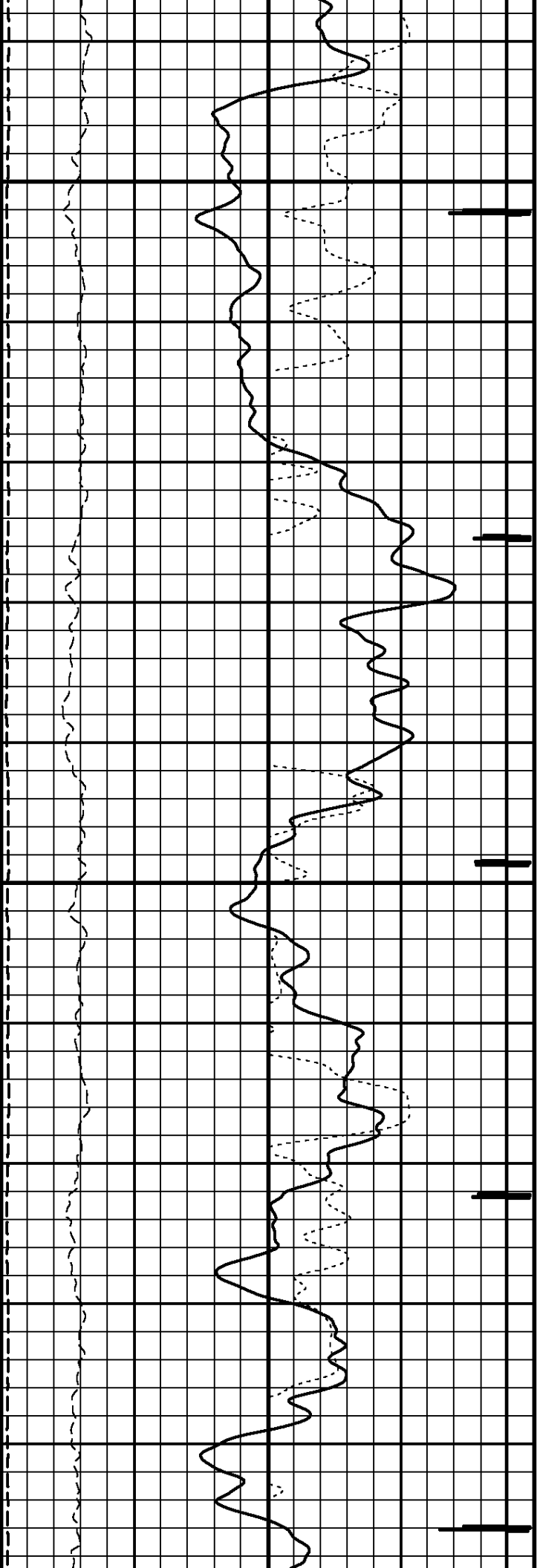
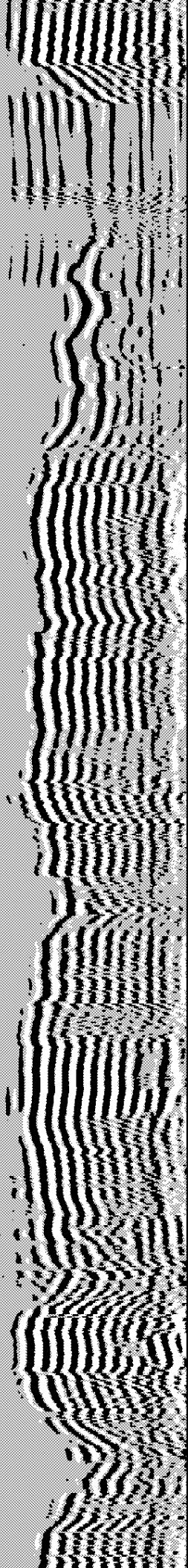
1250

1275



1300

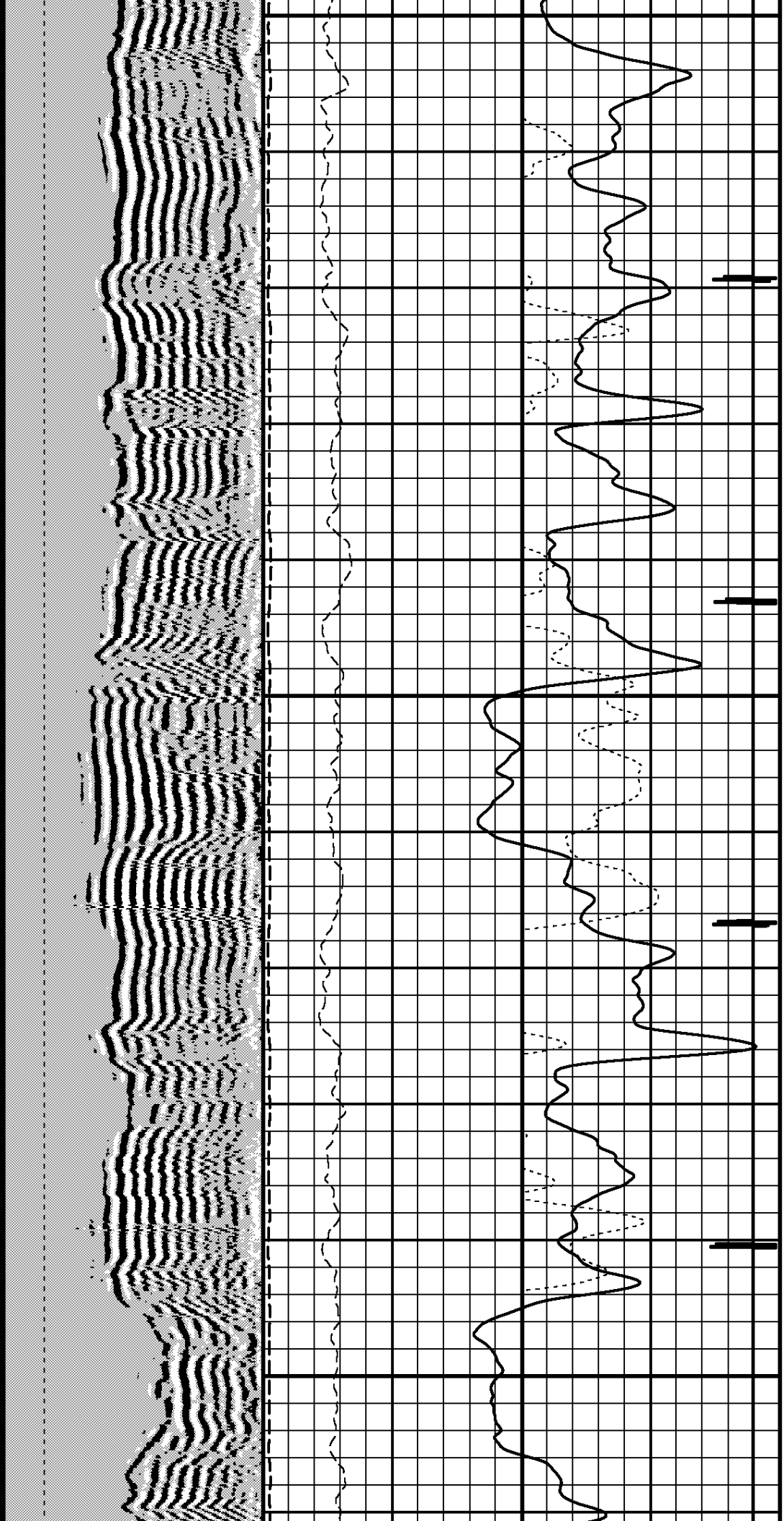
1325



1350

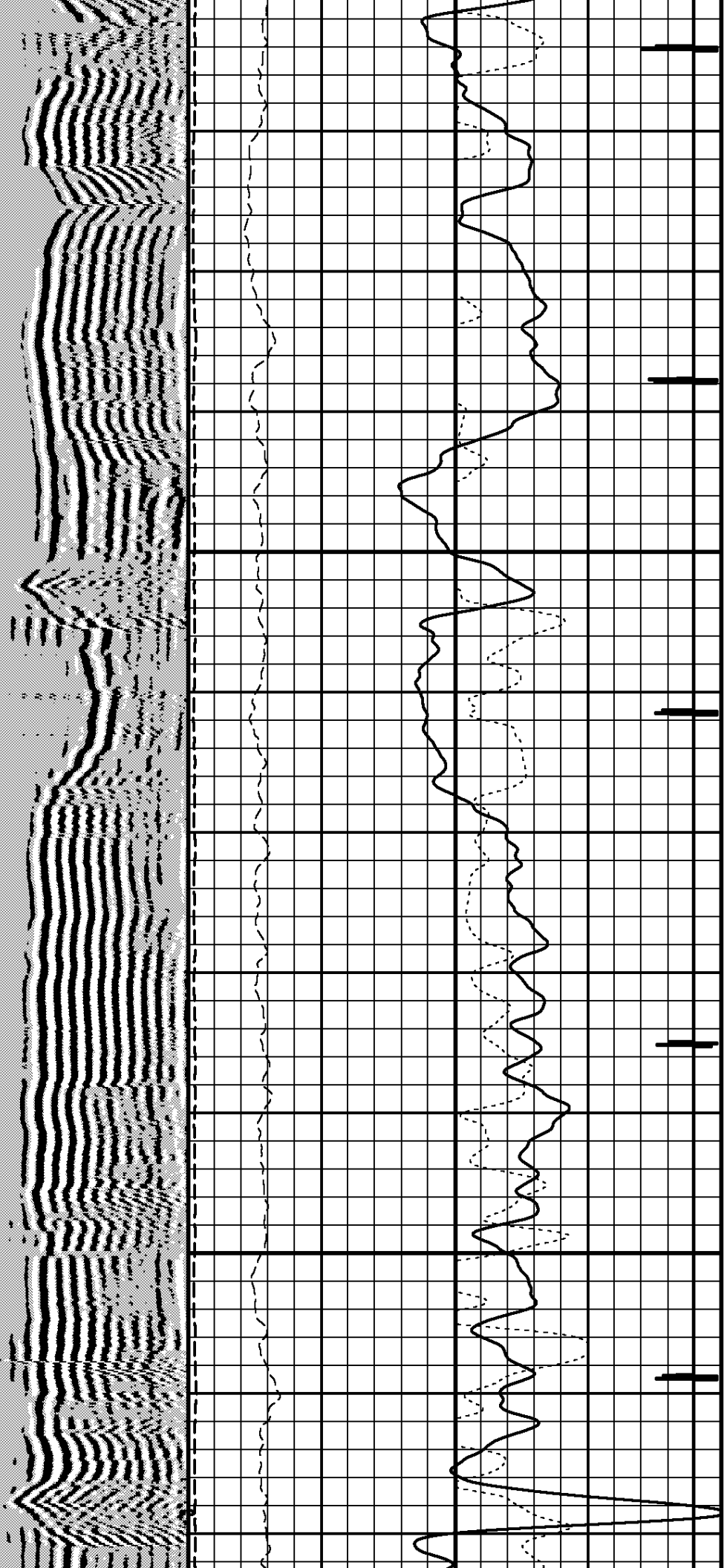
1375

1400



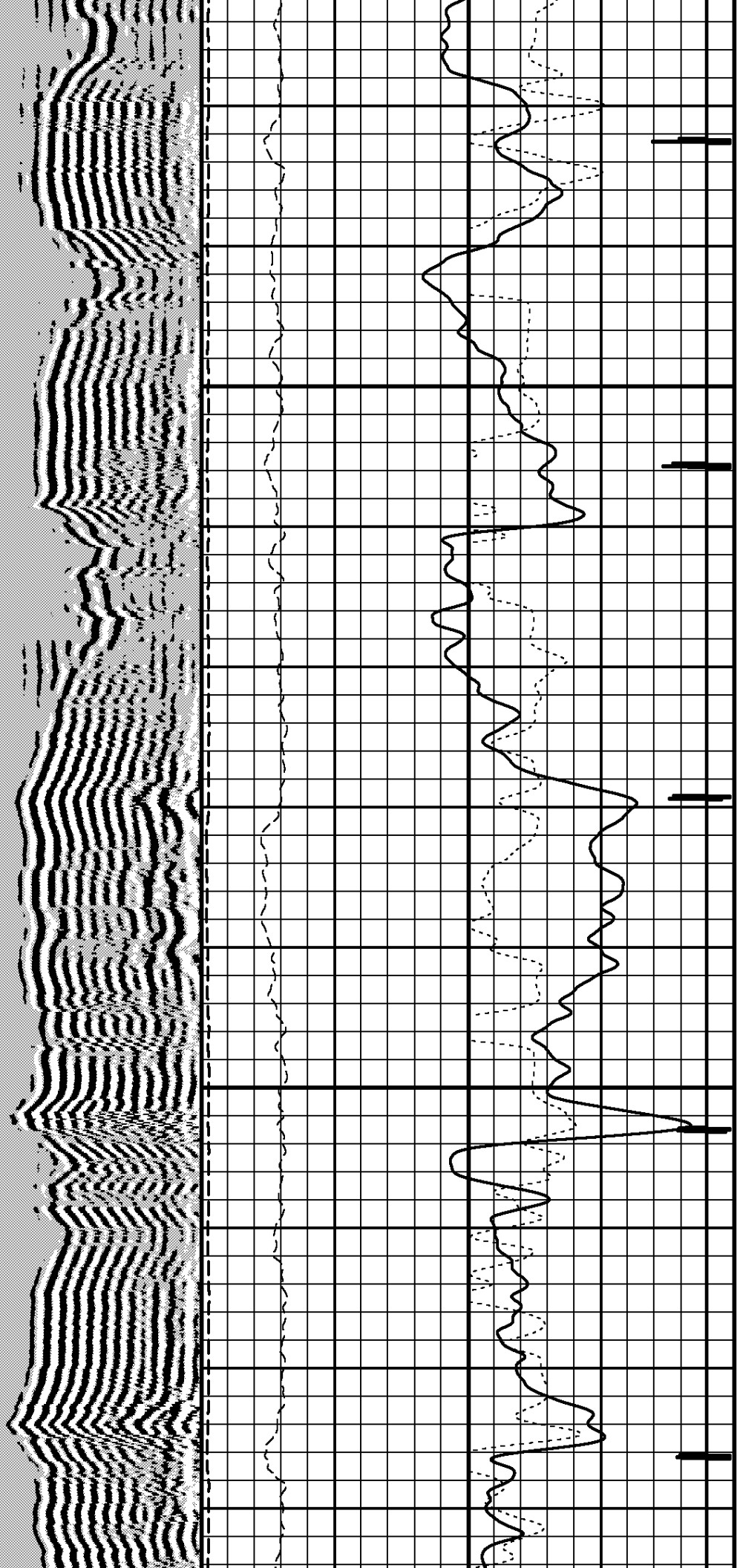
1425

1450



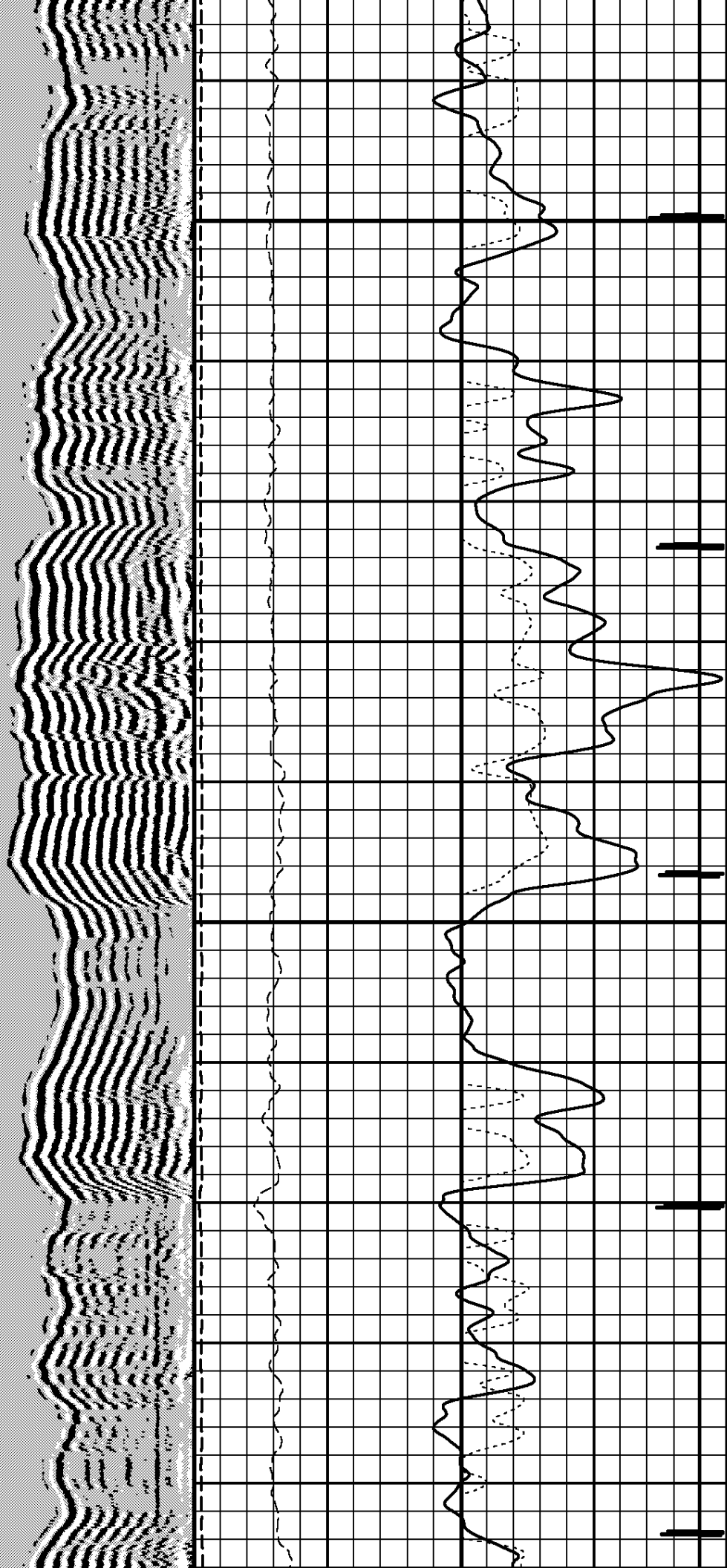
1475

1500



1525

1550

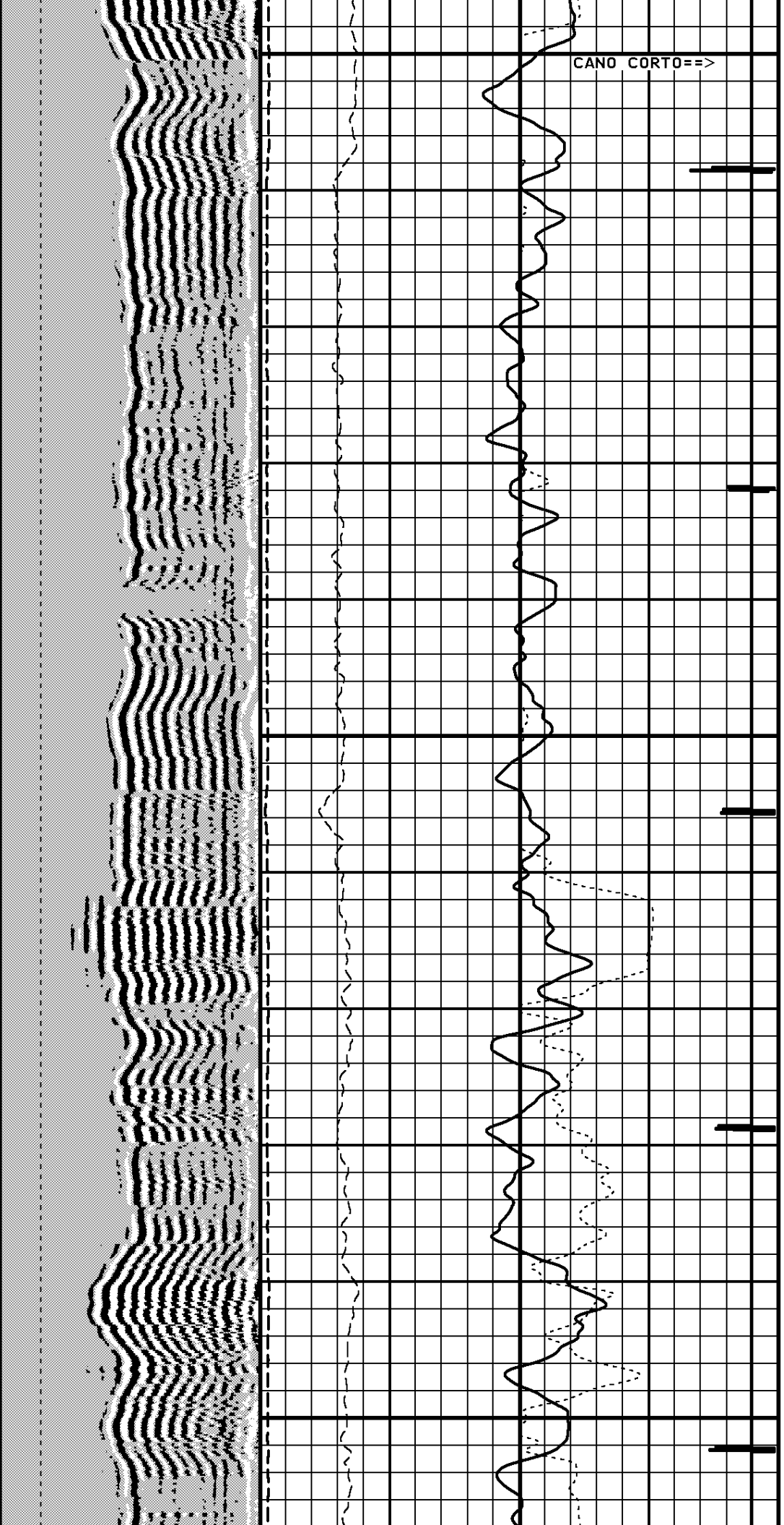


1575

CANO CORTO==>

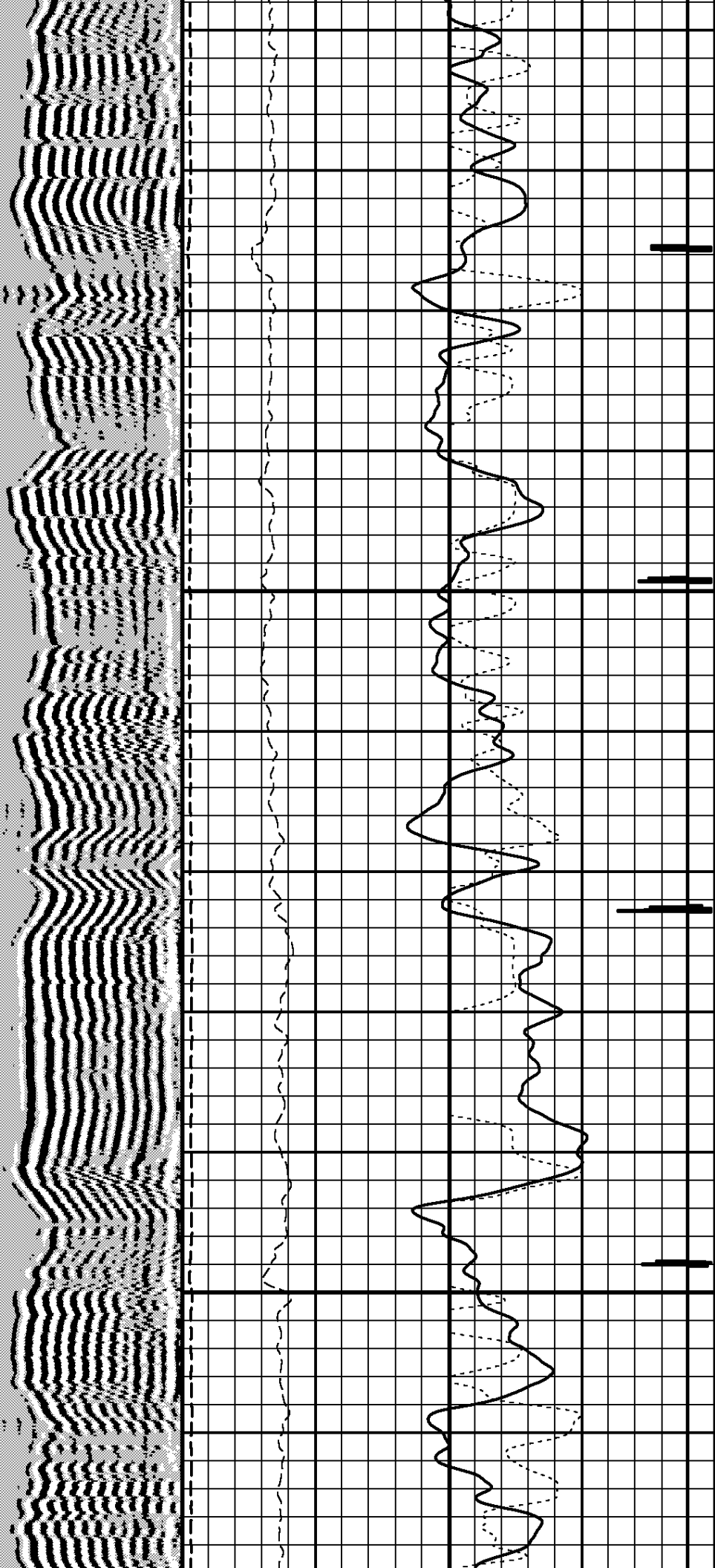
1600

1625



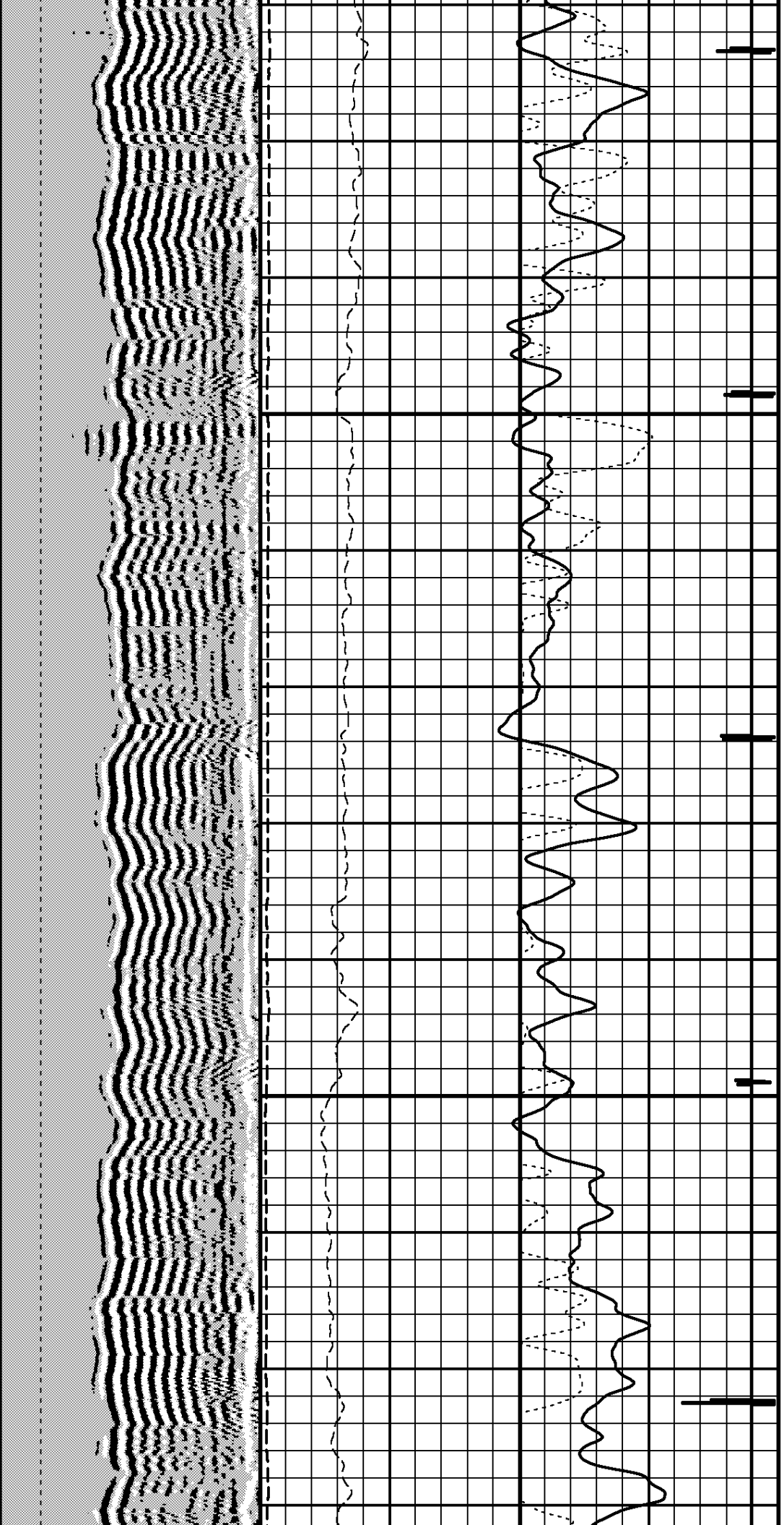
1650

1675



1700

1725



1750

1775

ENERGIA VARIABLE

DENSIDAD VARIABLE

Amplitud

Primera Lectura

FONDO=1776

Tiempo de Transito

Neutron

CCL

TENSION

0 1000

ENERGIA VARIABLE

0 85

VDL 5'

200 uSeg. 1200

CBL 3'

0 %Can.Libre 100

TIEMPO DE TRANSITO

400 uSeg. 200

ARRIBO CAN. LIBRE

200 uSeg. 1200

CBL 3' AMP.

0 %Can.Libre 10

CCL

-1800 mV. 200

NEUTRON

0 Unid.API 300

START DEPTH: 1781.3 METERS DIRECTION: UP DATE: 07/03/2006 TIME: 23:49 MODE: ORIGINAL

EA695TP

TRAMO PRINCIPAL

v.09.07.2000

VERSION: 1.64

TRAMO REPETIDO

EA695TR

FINISH DEPTH: 1704.5 METERS DIRECTION: UP DATE: 07/04/2006 TIME: 00:11 MODE: ORIGINAL

NEUTRON

0 Unid.API 300

ARRIBO CAN. LIBRE

200 uSeg. 1200

CBL 3' AMP.

0 %Can.Libre 10

CCL

-1800 mV. 200

ENERGIA VARIABLE

0 85

VDL 5'

200 uSeg. 1200

CBL 3'

0 %Can.Libre 100

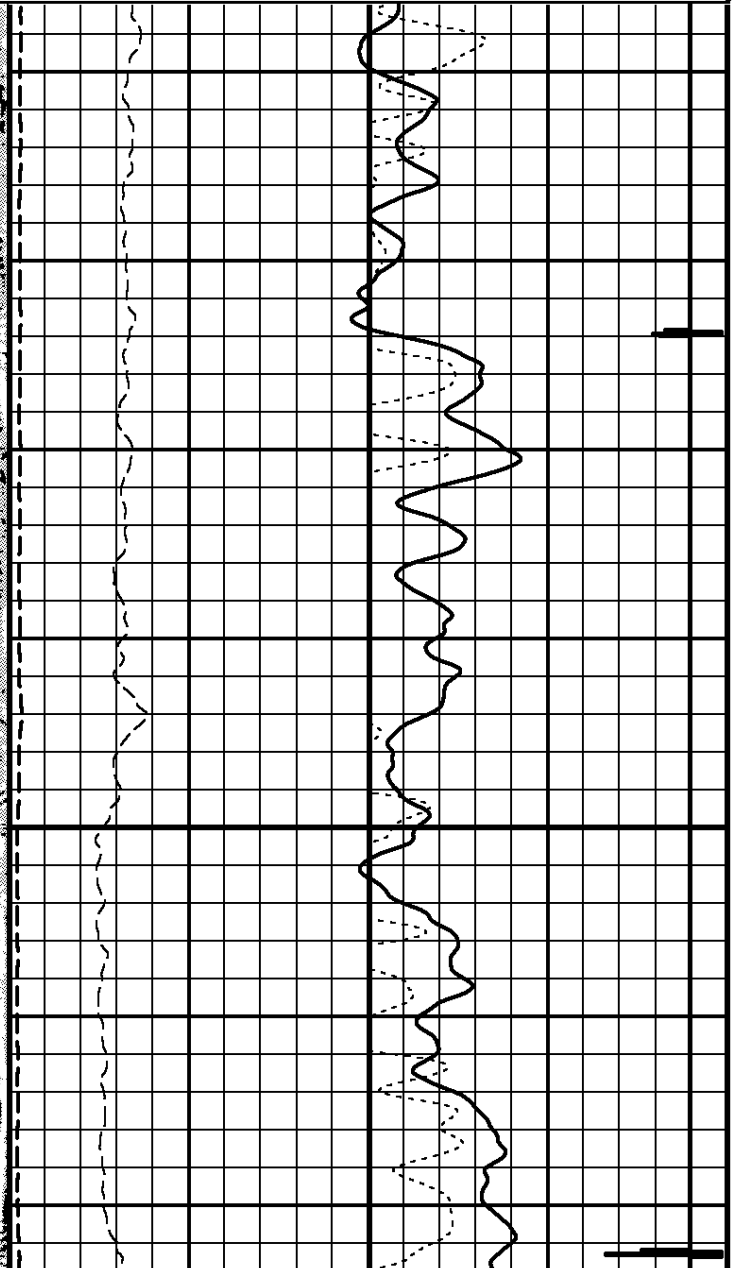
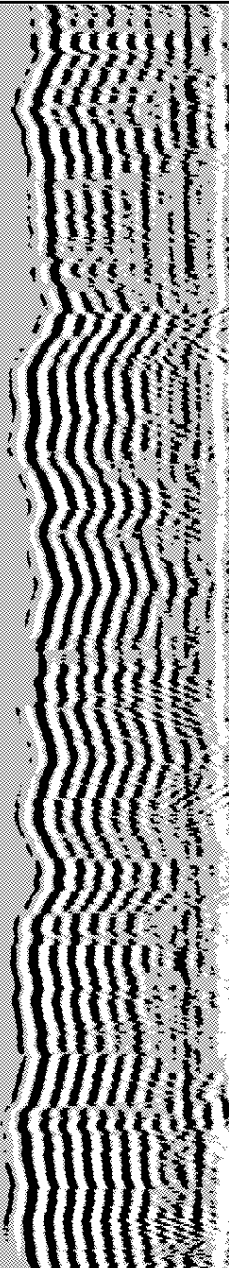
TIEMPO DE TRANSITO

400 uSeg. 200

TENSION

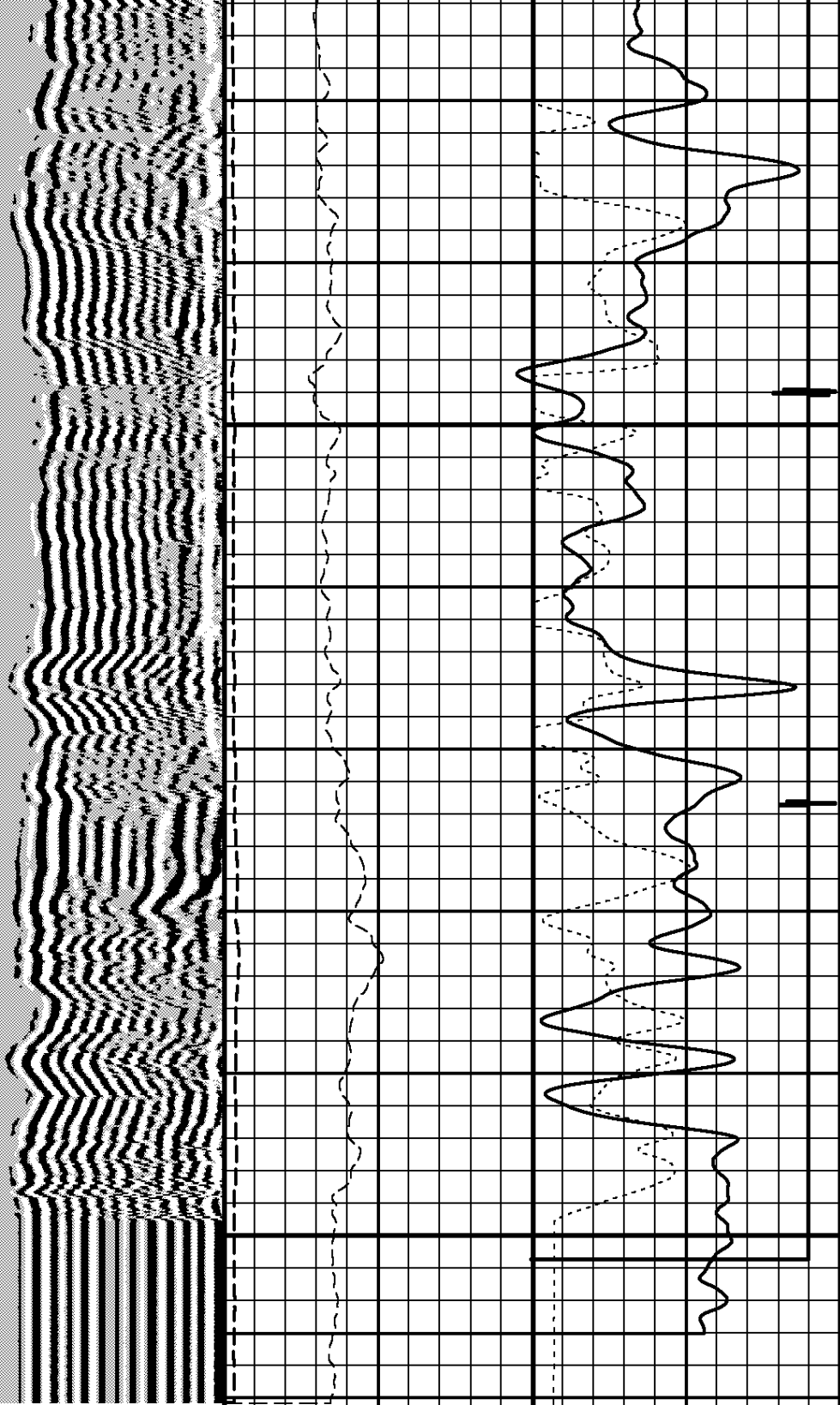
0 1000

1725



1750

1775



TENSION
0 1000

ENERGIA VARIABLE

0 85

VDL 5'

200 uSeg. 1200

CBL 3'

0 %Can.Libre 100

TIEMPO DE TRANSITO

400 uSeg. 200

ARRIBO CAN. LIBRE

200 uSeg. 1200

CBL 3' AMP.

0 %Can.Libre 10

CCL

-1800 mV. 200

NEUTRON

0 Unid.API 300

EA695TR

TRAMO REPETIDO

v.09.07.2000

VERSION: 1.64

VERSION: 1.64

REPETIDO CBL

EA695RCBL

FINISH DEPTH: 830.8 METERS DIRECTION: UP DATE: 07/03/2006 TIME: 23:37 MODE: ORIGINAL

<u>ARRIBO CAN. LIBRE</u>	<u>CBL 3' AMP.</u>	<u>CCL</u>
200 uSeg. 1200 0	%Can.Libre 10	-1800 mV. 200
<u>VDL 5'</u>	<u>CBL 3'</u>	<u>TIEMPO DE TRANSITO</u>
200 uSeg. 1200 0	%Can.Libre 100	400 uSeg. 200

ENERGIA VARIABLE

0 85

VDL 5'

CBL 3'

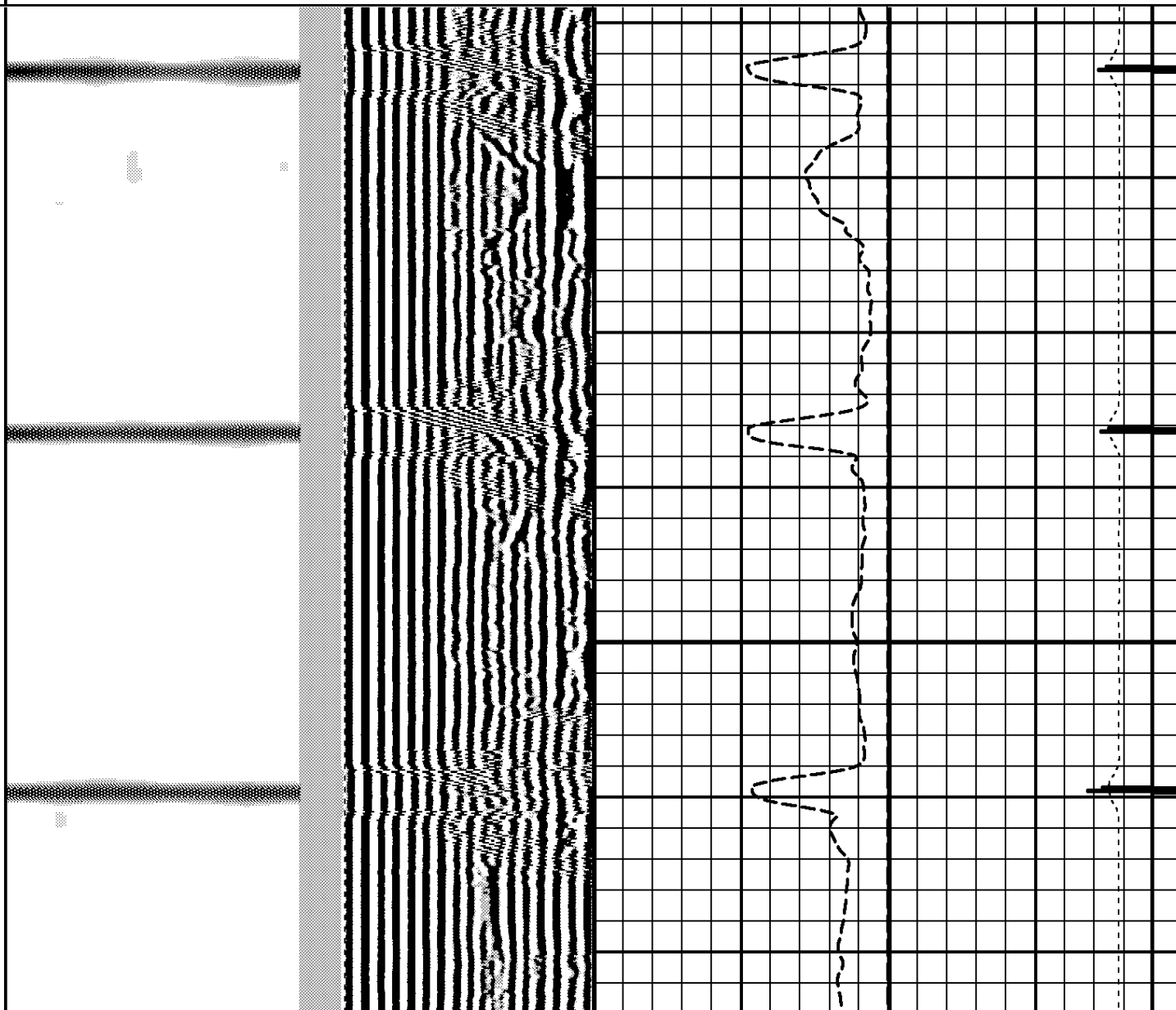
TIEMPO DE TRANSITO

400 uSeg. 200

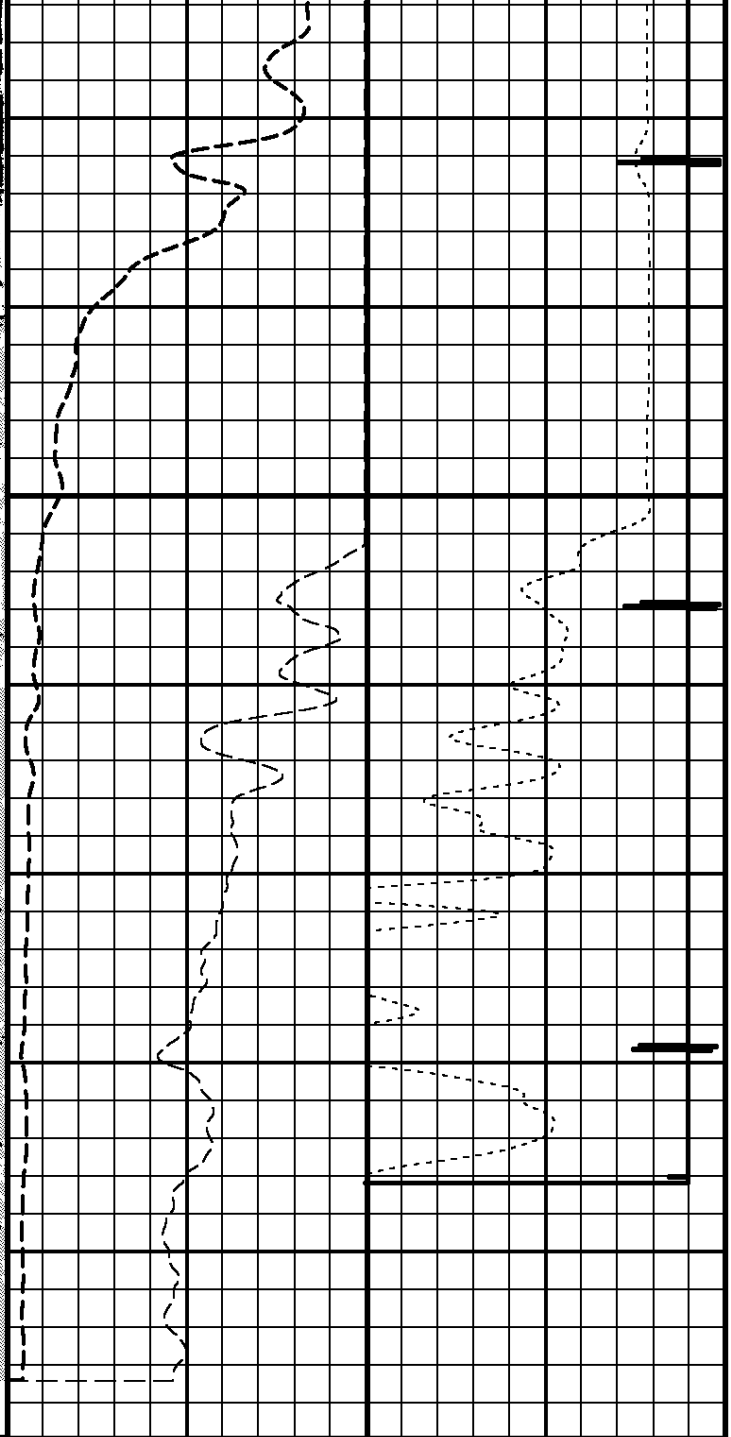
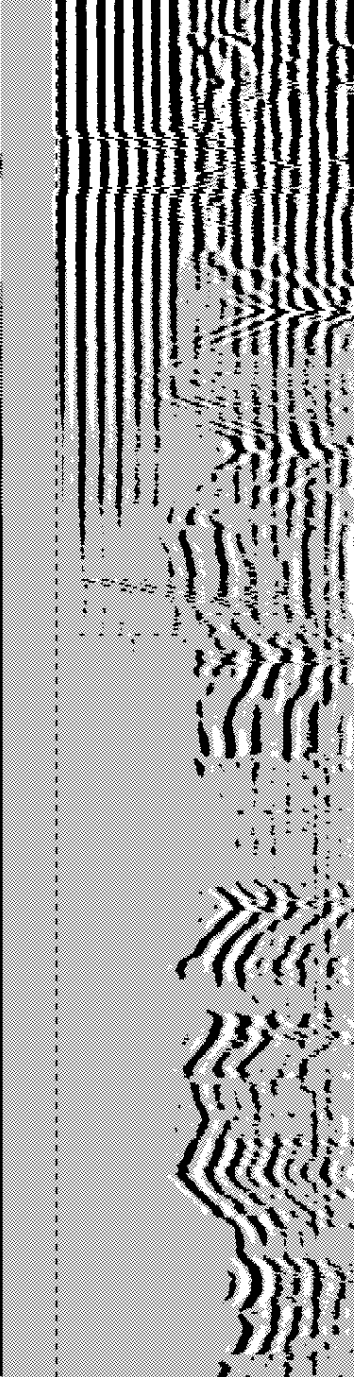
TENSION

0 1000

850



875



TENSION 0 1000	ENERGIA VARIABLE 0 85	VDL 5' 200 uSeg. 1200	CBL 3' 0 %Can.Libre 100	TIEMPO DE TRANSITO 400 uSeg. 200
		ARRIBO CAN. LIBRE 200 uSeg. 1200	CBL 3' AMP. 0 %Can.Libre 10	CCL -1800 mV. 200

START DEPTH: 899.9 METERS DIRECTION: UP DATE: 07/03/2006 TIME: 23:35 MODE: ORIGINAL

EA695RCBL

REPETIDO CBL

VERSION: 1.64

REMARKS

ANALISIS DE REPETIBILIDAD

VERSION: 1.64

FINISH DEPTH: 1705.3 METERS

DIRECTION: UP

DATE: 07/04/2006

TIME: 00:15

MODE: ORIGINAL

NEUTRON Repetido

0 Unid.API 300

NEUTRON

0 Unid.API 300

CBL 3' AMPL. Rep.

0 %Can.Libre 10

CBL 3' Repetido

0 %Can.Libre 100

T. DE TRANSITO Rep

400 uSeg. 200

CBL 3' AMP.

0 %Can.Libre 10

CCL

-1800 mV. 200

CBL 3'

0 %Can.Libre 100

TIEMPO DE TRANSITO

400 uSeg. 200

ARRIBO CAN. LIBRE

200 uSeg. 1200

VDL 5'

200 uSeg. 1200

ENERGIA VARIABLE

0 85 200

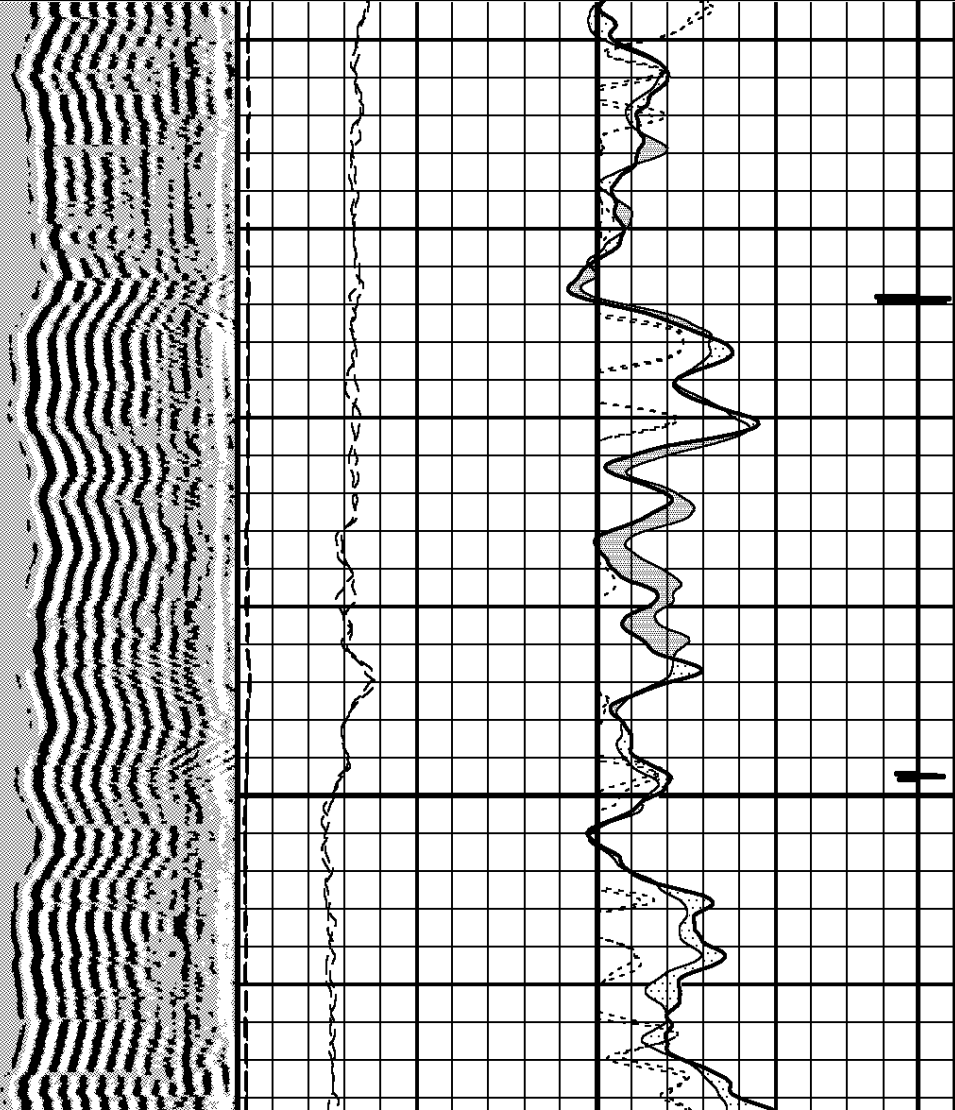
TENSION

0 1000

TENSION

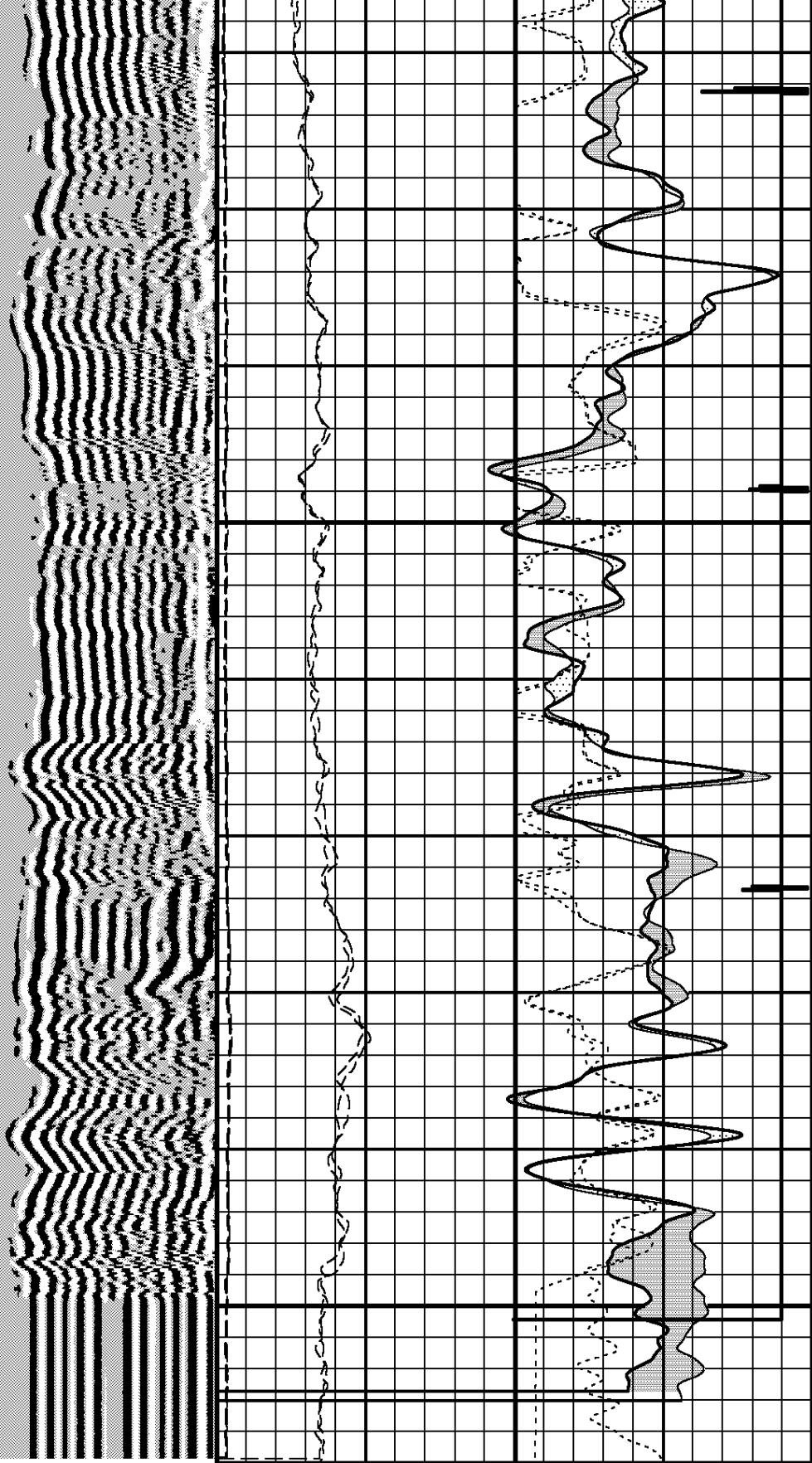
0 1000

1725



1750

1775



TENSION
0 1000

TENSION
0 1000

ENERGIA VARIABLE
0 85

VDL 5'
200 uSeg. 1200

CBL 3'
0 %Can. Libre 100

TIEMPO DE TRANSITO
400 uSeg. 200

ARRIBO CAN. LIBRE

200 uSeg. 1200

CBL 3' AMP.

0 %Can.Libre 10

CCL

-1800 mV. 200

CBL 3' Repetido

0 %Can.Libre 100

T. DE TRANSITO Rep

400 uSeg. 200

CBL 3' AMPL. Rep.

0 %Can.Libre 10

NEUTRON

0 Unid.API 300

NEUTRON Repetido

0 Unid.API 300

START DEPTH: 1781.6 METERS DIRECTION: UP DATE: 07/04/2006 TIME: 00:14 MODE: ORIGINAL

VERSION: 1.64

REMARKS

ANALISIS DE REPETIBILIDAD

VERSION: 1.64

FINISH DEPTH: 830.8 METERS DIRECTION: UP DATE: 07/03/2006 TIME: 23:40 MODE: ORIGINAL

CBL 3' AMPL. Rep

0 %Can.Libre 10

CBL 3' Repetido

0 %Can.Libre 100

T. DE TRANSITO Rep

400 uSeg. 200

ARRIBO CAN. LIBRE

200 uSeg. 1200

CBL 3' AMP.

0 %Can.Libre 10

CCL

-1800 mV. 200

ENERGIA VARIABLE

0 85

VDL 5'

200 uSeg. 1200

CBL 3'

0 %Can.Libre 100

TIEMPO DE TRANSITO

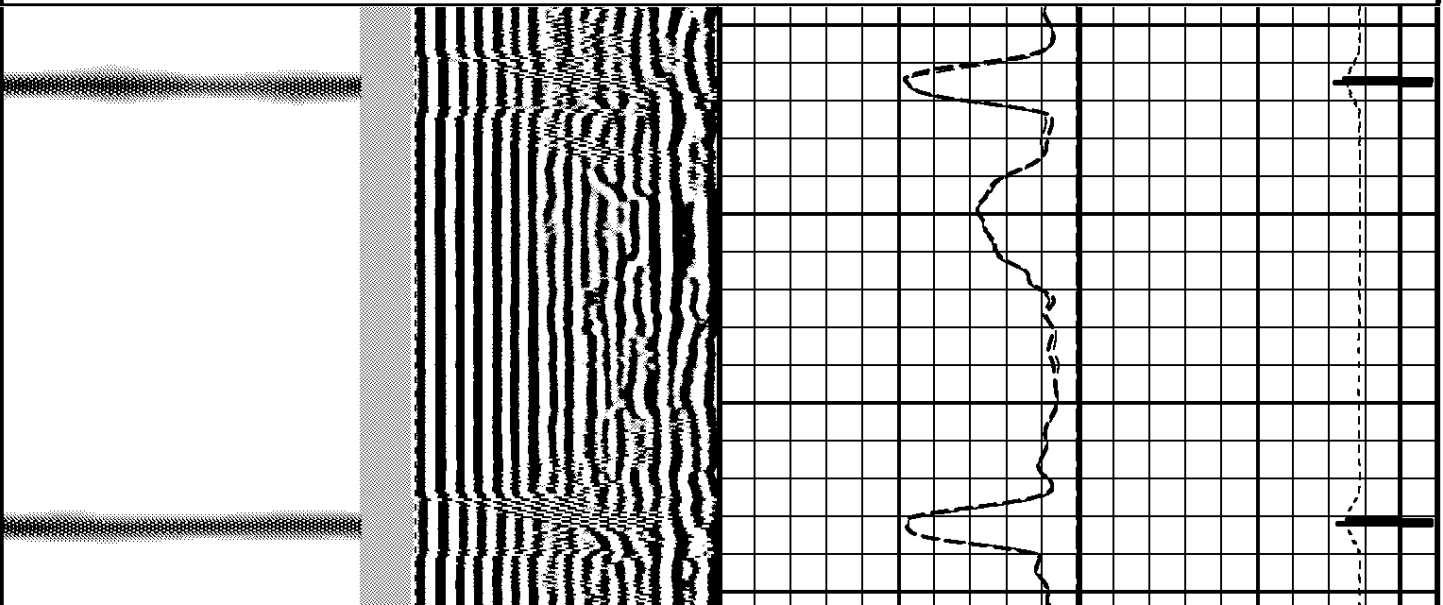
400 uSeg. 200

TENSION

0 1000

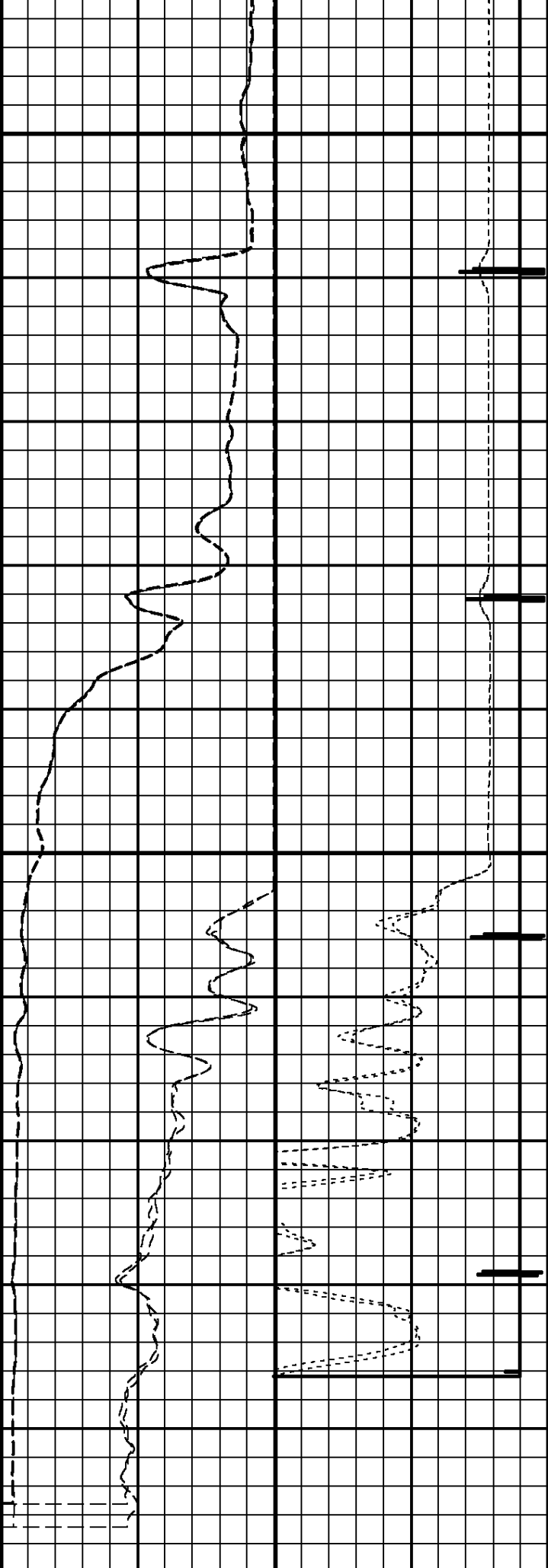
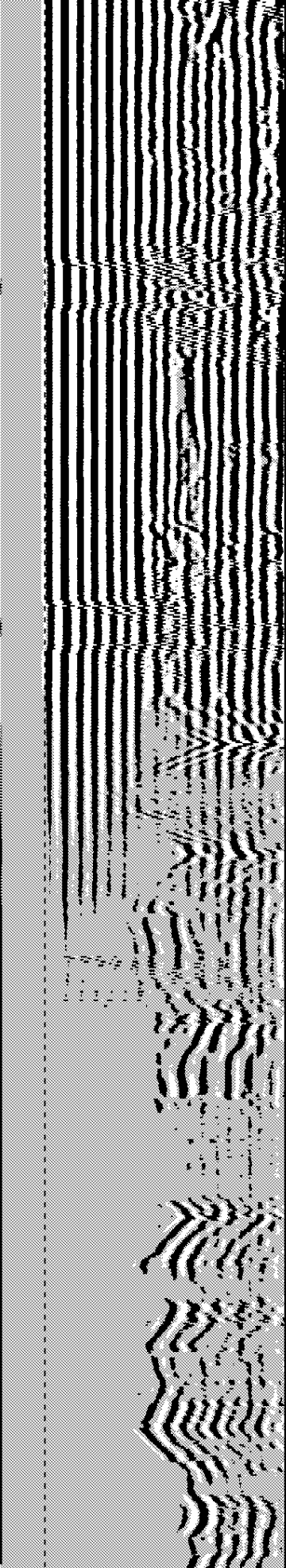
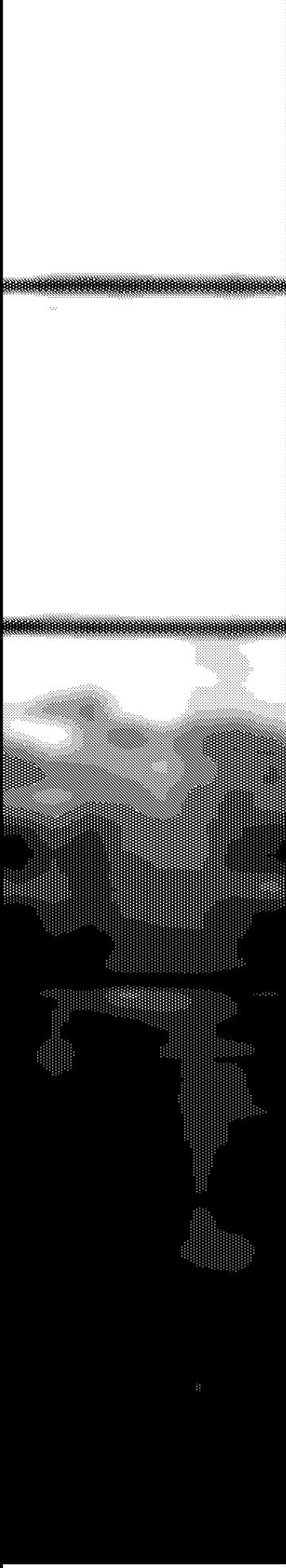
TENSION

0 1000



850

875



TENSION

0 1000 TENSION 0 1000	<u>ENERGIA VARIABLE</u> 0 85	<u>VDL 5'</u> 200 uSeg. 1200	<u>CBL 3'</u> 0 %Can.Libre 100	<u>TIEMPO DE TRANSITO</u> 400 uSeg. 200
	<u>ARRIBO CAN. LIBRE</u> 200 uSeg. 1200	<u>CBL 3' AMP.</u> 0 %Can.Libre 10	<u>CCL</u> -1800 mV. 200	
		<u>CBL 3' Repetido</u> 0 %Can.Libre 100	<u>T. DE TRANSITO Rep</u> 400 uSeg. 200	
		<u>CBL 3' AMPL. Rep</u> 0 %Can.Libre 10		

START DEPTH: **899.9 METERS** DIRECTION: **UP** DATE: **07/03/2006** TIME: **23:39** MODE: **ORIGINAL**
 VERSION: 1.64

Single Conductor Adaptor Head

Weight 1.0 Kgr.
 Length 0.3 mts.
 Max. Diameter 36.5 mm.

Total Stack Weight 103.8 Kgr. in air
 Total Stack Length 8.46 mts.

Slim Hole Centralizer

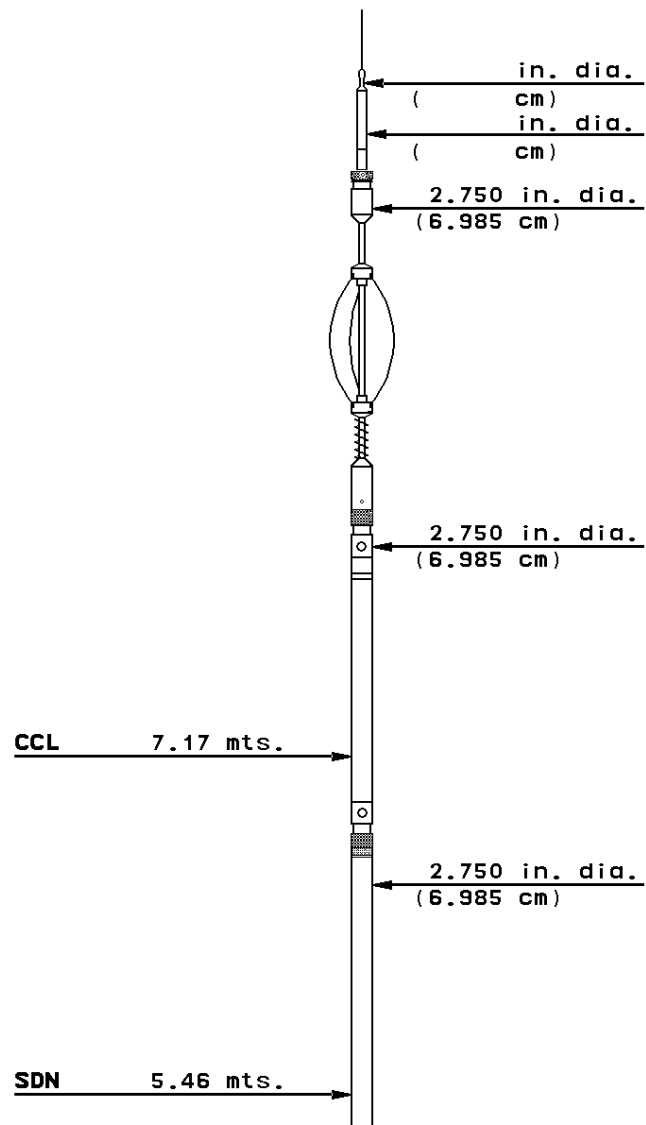
Weight 8.5 Kgr.
 Length 0.85 mts.
 Max. Diameter 70.0 mm.

Collar Locator

Weight 18.14 Kgr.
 Length 1.03 mts.
 Max. Diameter 70.0 mm.

Single Detector Neutron

Weight 27.3 Kgr.
 Length 1.50 mts.
 Max. Diameter 70.0 mm.



Slim Hole Centralizer

Weight 8.5 Kgr.
 Length 0.85 mts.
 Max. Diameter 70.0 mm.

Sector Bond

Weight 41.0 Kgr.
 Length 3.14 mts.
 Max. Diameter 70.0 mm.

Slim Hole Centralizer

Weight 8.5 Kgr.
 Length 0.85 mts.
 Max. Diameter 70.0 mm.

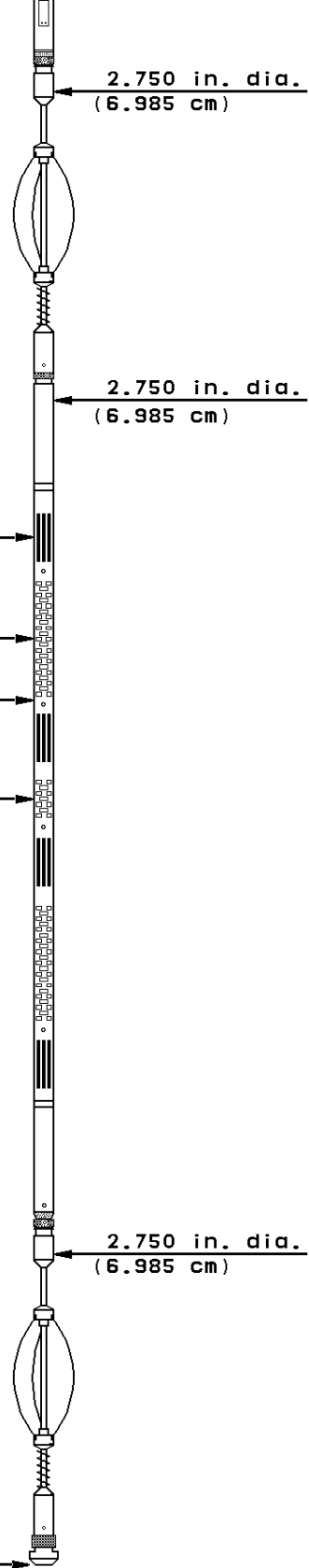
Sector and Bond Transmitters

Sector Measure 2.05 mts Point

3 Foot Measure 1.75 mts Point

5 Foot Measure 1.14 mts Point

Tool Zero



COMPANIA YPF S.A.

POZO YPF.Ch. EA-695

CAMPO EL ALBA PAIS ARG.



PROF. MEDIDA

EA695PM

FINISH DEPTH: 1704.7 METERS DIRECTION: UP DATE: 07/03/2006 TIME: 23:44 MODE: ORIGINAL

NEUTRON

Unid.API 0 300

ARRIBO CAN. LIBRE

200 uSeg. 1200

CBL 3' AMP.

0 %Can.Libre 10

CCL

-1800 mV. 200

ENERGIA VARIABLE

0 85 200 uSeg. 1200

VDL 5'

0 200 uSeg. 1200

CBL 3'

0 %Can.Libre 100

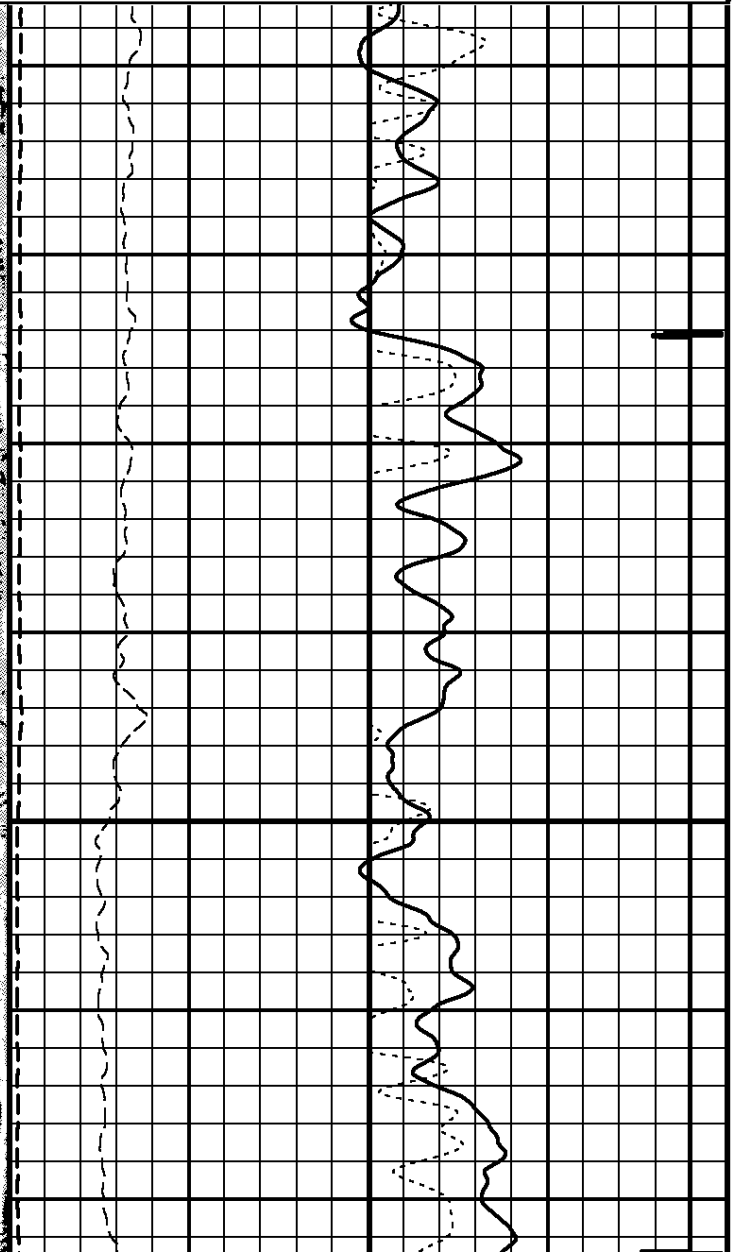
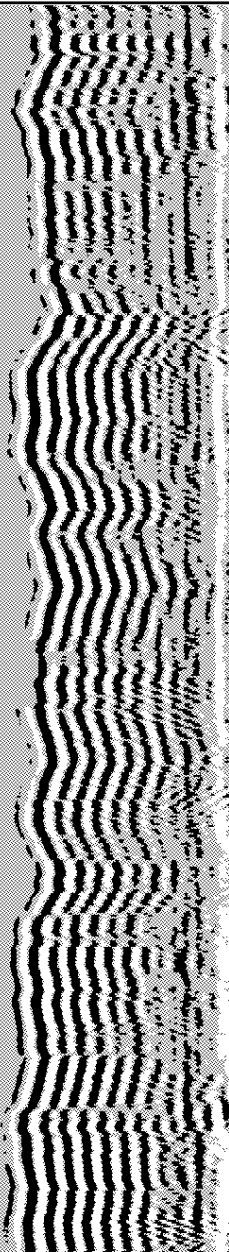
TIEMPO DE TRANSITO

400 uSeg. 200

TENSION

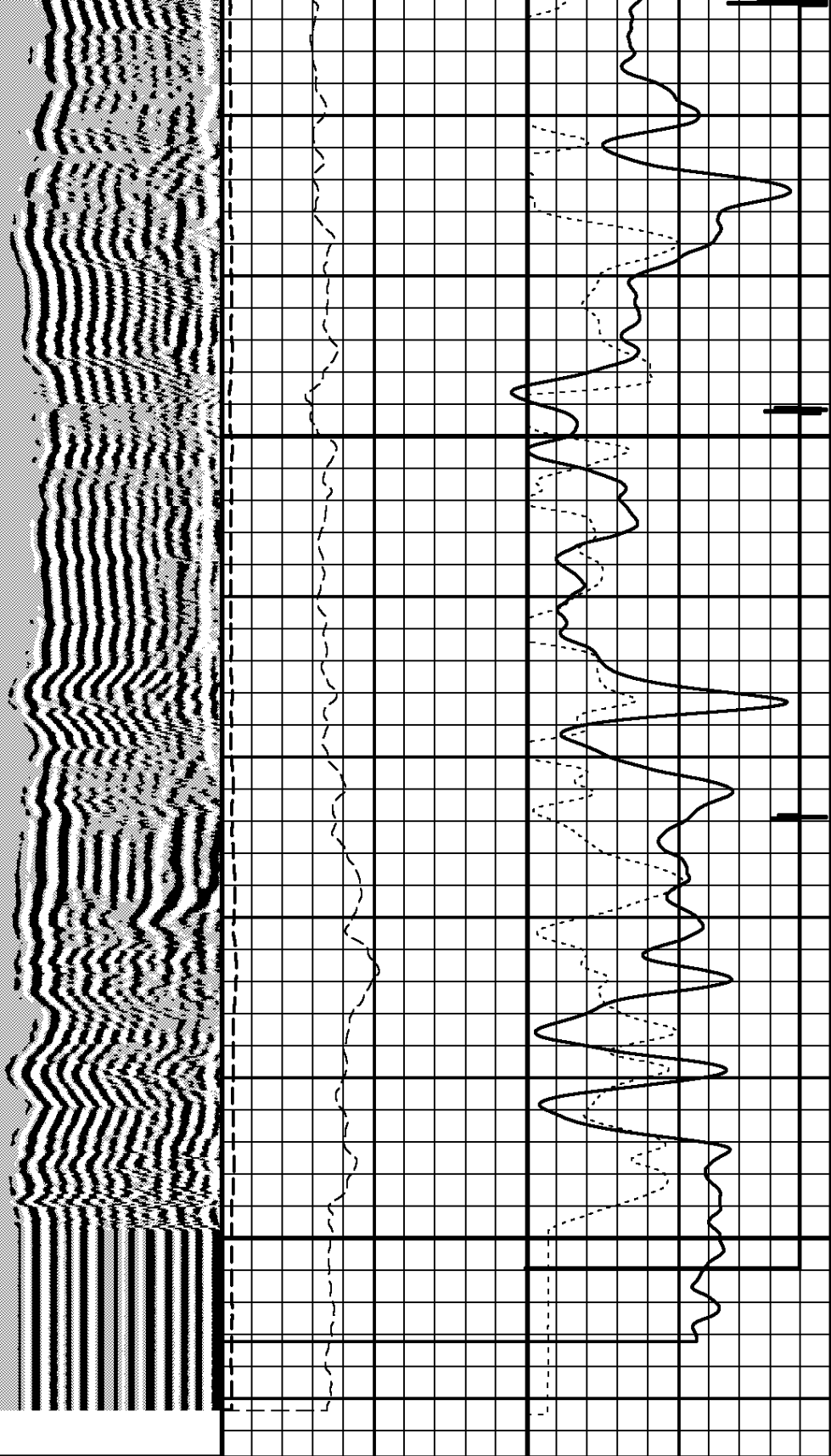
0 1000

1725



1750

1775



TENSION
0 1000

ENERGIA VARIABLE

0 85

VDL 5'

200 uSeg. 1200

ARRIBO CAN. LIBRE

200 uSeg. 1200

CBL 3'

0 %Can.Libre 100

CBL 3' AMP.

0 %Can.Libre 10

TIEMPO DE TRANSITO

400 uSeg. 200

CCL

-1800 mV. 200

NEUTRON

0 Unid.API 300

START DEPTH: 1781.8 METERS

DIRECTION: UP

DATE: 07/03/2006

TIME: 23:42

MODE: ORIGINAL

EA695PM

PROF. MEDIDA

v.09.07.2000

VERSION: 1.64

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

Schlumberger

COORDENADAS Y COTA DEFINITIVAS

COMPANIA:	REPSOL-YPF	YACIMIENTO:	MANANTIALES BEHR
POZO:	EA-695	SIST. GEODESICO:	PAMPA DEL CASTILLO
BATERIA:		PROVINCIA:	CHUBUT

EA-695

COORDENADA X: 4.949.913,10

COORDENADA Y: 2.584.937,96

COTA: 661,90 m.

Datum: WGS-84

LATITUD: -45° 35' 57,7348"

LONGITUD: -67° 54' 50,8032"

ALTITUD (ASE): 676,60 m.

OPERADOR:
Guillermo D. Silvestre
AGRIMENSOR

FECHA:
23/JUNIO/2006

A: Tenorio
DE: Vahnovan



DISTRITO. M. BEHR / R. ALI

POZO: EA-695

ZONA: ALBA 2

FECHA: 16/07/2006

CUENTA:

PROGRAMA:

EQUIPO:

DISEÑO:

CAÑOS

1 BAR COLLAR 2.7/8	1765
1 TUBING LISO 2.7/8"	
1 BHD	1755,35
67 TUBING LISO 2.7/8"	
1 ANCLA AT-4 Nueva	1122,2
119 TUBING LISO 2.7/8"	

B/B

BBA 25-175-RHBC 24 4' DE BOLLAND

12 B/B 1.1/2"	Grado D Nuevas
88 'B/B 3/4"	Grado D Nuevas
66 'B/B 7/8"	Grado D Nuevas
± 65 B/B 1"	Grado D Nuevas
TROZOS 1"	Grado D Nuevas
VASTAGO CROMADO 1 1/2" x 22'	

**Transportar: Dispositivo Leutert, Espaciadores, Valvula de 2" y niple de 2" sch 80
Tee prensa, Rattigan de 2.7/8", Cupla de vastago, valvula de 1" con niple, cruceta**

AIB Siam M-640

CARRERA 168

REGIMEN 6 GPM

INSTALACIÓN ELÉCTRICA

MOTOR 75 HP

**Bba 25-175 valvulas VM=VF=Ctitanio piston 4' c/ 10 anillos
luz 0.07 Con dispositivo para Gas Mecánico; Sello arena**



PEDIDO DE OPERACIONES

1-ADM.	2-AREA	3-ZONA	4-PEDIDO Nro.
--------	--------	--------	---------------

5-OBJETO:
 PERFILAJE POZO ENTUBADO
YPF. Ch. EA - 695

6-FECHA DE EJECUCION REQUERIDA		
Día	Mes	Año
03	07	2006

7-EJECUTANTE
GEOLOG S.A.

8-OPERACION PEDIDA

NEUTRON de CORRELACIÓN (N)

Registrar en los siguientes tramos:

Desde: 1789 m. (Fondo)	Hasta: 950 m.	839
Desde: 0 m.	Hasta: 0 m.	0
		<hr/>
		839

CEMENTACION-IMAGEN SEGMENTADA (CBL-VDL-IS)

Registrar en los siguientes tramos:

Desde: 1789 m. (Fondo)	Hasta: 950 m.	839
Desde: 0 m.	Hasta: 0 m.	0
		<hr/>
		839

Registrar tope anillo de cemento y cañería libre

OBSERVACIONES:

NOTA: Operación a realizar con Mastil de la Compañía.

FONDO MINIMO: 0 m.

Diámetro Casing: 5 1/2" de 15.5 lbs/pie (---/--- mm.)

Obs: Cumple frague el día **03/07/2006** a las **#### Hs.**

ZAPATO: 1797,83 m.

COLLAR: 1789,48 m.

9- SOLICITANTE	10- RESPONSABLE DE EJECUCIÓN	11- CONTROL EJECUCION
03/07/2006 FECHA	Nelso D. Lovera FIRMA	24/06/2014 FECHA
	24/06/2014 FECHA	FIRMA

Table Setup

Select...



All Surfaces

Markers...

Attributes...

Sort...

Filter...

Selection Source:  Database (7607)  Subset (6)  Display (6)

Marker Information - 6 of 7607 data items



Borehole Name	Borehole UWI	Name	MD (m)	TWT (ms)
EA-695	EA-695	Marker	1800	1438.01
EA-695	EA-695	CII	852.044	798
EA-695	EA-695	CIII	1064.21	958
EA-695	EA-695	C IV	1512.42	1240
EA-695	EA-695	Falla	1823.53	1452
EA-695	EA-695	Marker		

New Markers

Add...

Target Surface...

Type Strat

Target Borehole...

EA-695

 Create Surface

Operations

Convert To

Depth

Switch To

Strat

Shift Markers

MD

OK

Apply

Reset

Cancel

Help



COMPANIA: YPF S.A.

POZO: YPF.Ch.EA-695

CAMPO: EL ALBA

PROVINCIA: CHUBUT

PAIS: ARGENTINA



PROBADOR DE PRESIONES
ESCALA: 1/200

AIT-LDL-CNL-CAL
MDT

Elev.: B.V. 666.45 m
N.T. 661.9 m
M.R. 666.15 m

Campo: EL ALBA
Locacion: CAS
Pozo: YPF.Ch.EA-695
Compania: YPF S.A.

LOCACION		NIVEL DEL TERRENO		Elev.:	
Ref. Permanente:		NIVEL DEL TERRENO		661.9 m	
Reg. Medido Desde:		NIVEL DEL TERRENO	0.0 m	sobre nivel ref.	
Perforacion Medida Desde:		NIVEL DEL TERRENO			
UWI:	Equipo	Longitud	Latitud		
AR0100006830	PL-245	X: 4.949.913,10	Y: 2.584.937,96		

Corrida No.	2				
Prof. Perforador	1800 m				
Prof. Registro	1801.3 m				
Primera Lectura	1764 m				
Ultima Lectura	1121 m				
Fondo Tuberia Perforador	9.625 in	@		350.44 m	
Fondo Tuberia Registro	349.7 m				
diametro Trepano	8.750 in				
Fondo De Lodo	PHPA				
Viscosidad	1.17 g/cm3			55 s	
Mercurio	6.5 cm3			8.5	
Fuente Muestra De Lodo	PILETA				
Temperatura @ Temp.	4.690 ohm.m	@		7 degC	
Temperatura @ Temp.	3.880 ohm.m	@		7 degC	
Temperatura @ Temp.	6.700 ohm.m	@		7 degC	
Fuente: RMF	PRENSA				
RMF @ T. Fdo.	1.472 @ 70		@	1.227 @ 70	
Temperatura Maxima Medida	70 degC				
Horas de Operacion Final	28-Jun-2006			12:15	
Horas de Operacion Fondo	29-Jun-2006			12:45	
Numero de Unidad No.	8116		ARCS		
Registrado por:	O. CASTILLO				
Apellido y Nombre	ANIBAL SILVEIRA				

MUD		Density	Viscosity	PH	Run 1	Run 2	Run 3
Fluid Loss							
Source Of Sample							
RM @ Measured Temperature					@		
RMF @ Measured Temperature					@		
RMC @ Measured Temperature					@		
Source RMF	RMC						
RM @ MRT	RMF @ MRT				@	@	@
Maximum Recorded Temperatures							
Circulation Stopped	Time						
Logger On Bottom	Time						
Unit Number	Location						
Recorded By							
Witnessed By							

DEPTH SUMMARY LISTING

Date Created: 30-JUN-2006 15:52:34

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B	Type: CMTD-B/A	Type: 7-46P
Serial Number: 4858	Serial Number: 1689	Serial Number: 77353
Calibration Date: 12-Nov-2004	Calibration Date: 14-Feb-2006	Length: 3000.15 M
Calibrator Serial Number: 31	Calibrator Serial Number: 1028	Conveyance Method: Wireline
Calibration Cable Type: 7-46P	Calibration Gain: 1.28	Rig Type: LAND
Wheel Correction 1: -4	Calibration Offset: 41.00	
Wheel Correction 2: -4		

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	AIT-LDL-CNL-CAL
Reference Log Run Number:	1
Reference Log Date:	28-Jun-2006

Depth Control Remarks

1. Procedimiento Estandar de Control de Profundidad de Schlumberger aplicado a esta carrera.
2. Perfil correlacionado con registro AIT-LDL-CNL-CALI del dia 28-Jun-2006
3.
4.
5.
6.

LIMITACION DE RESPONSABILIDAD

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

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

OBSERVACIONES: CORRIDA # 1	OBSERVACIONES: CORRIDA # 2
1. Perfil correlacionado con registro AIT-LDL-CNL-CALI del 28-Jun-2006.	
2. Esquema del pozo segun datos del perforador.	
3. Herramienta corrida segun diagrama.	
4. Herramienta corrida con 2 precamaras de 10 cc y packer estandar.	
5. Maxima desviacion del pozo segun datos del perforador = 1 deg	
6. Maxima temperatura registrada 70 degC, tomada con termometro en punta de herramienta.	
7. Datos adicionales del lodo: Cl = 350 ppm. Ca = 80 ppm.	
8. Ultima circulacion termino el dia 28-Jun-2006 a las 12:15 hs y duro 1 hora.	
9. Puntos solicitados: 8. Normales:7. Sin entrada: 1. Perdida de Sello: 0	

10. Cliente presente en todos los pretests.

11. Pretest @ 1762 m repetido para comprobacion de lectura de la herramienta.

12. En el pretest 1138,5 m se comenzo a identificar fluido para tomar muestra. Bombeados 20lts.

Luego se tapo el probe sin determinar el fluido. Se saco herramienta para limpiar.

CORRIDA #1

CORRIDA #2

ORDEN DE SERVICIO:
 VERSION DEL PROGRAMA: 14C0-302
 NIVEL DEL LODO: 0 m

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

INTERVALO REGISTRADO	COMIENZO	FINAL	INTERVALO REGISTRADO	COMIENZO	FINAL

DESCRIPCION DEL EQUIPO

CORRIDA # 1

CORRIDA # 2

SURFACE I

MRPI
 GSR
 WITM (

DOWNHOLE

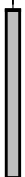
LEH- 15.5
 LEH-



TCC- 14.6
 ECH
 TCC
 TelSti 13.0



SGT 13.0 13.7
 SG+
 SGC
 SGD-
 Gamm:



MRF 12.1
 MRPC



PC 10.0

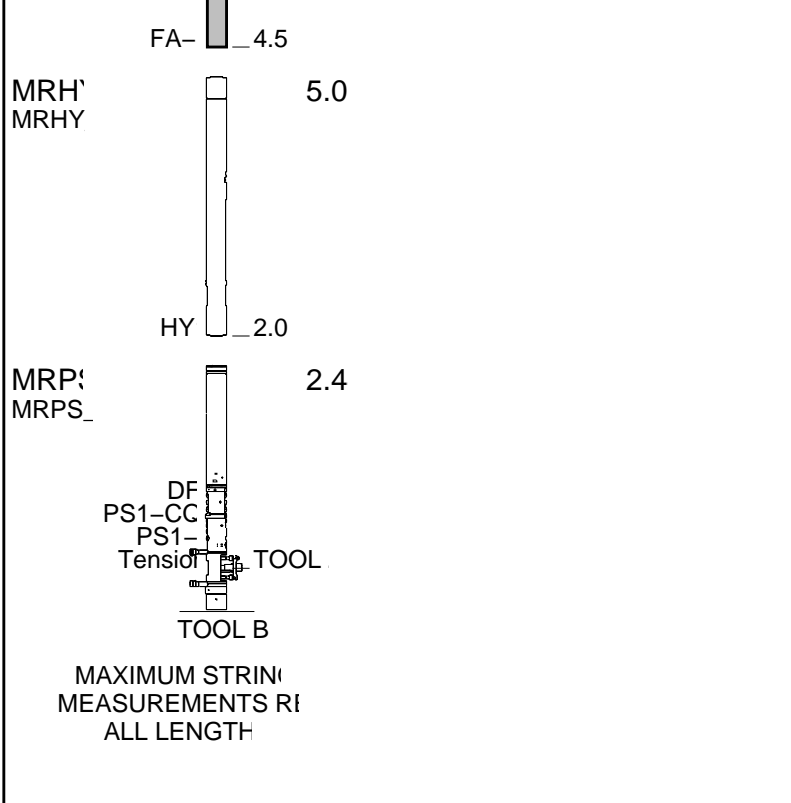
MRM: 10.5
 BOTT
 BOTT
 BOTT
 BOTT
 BOTT
 BOTT
 MRMS



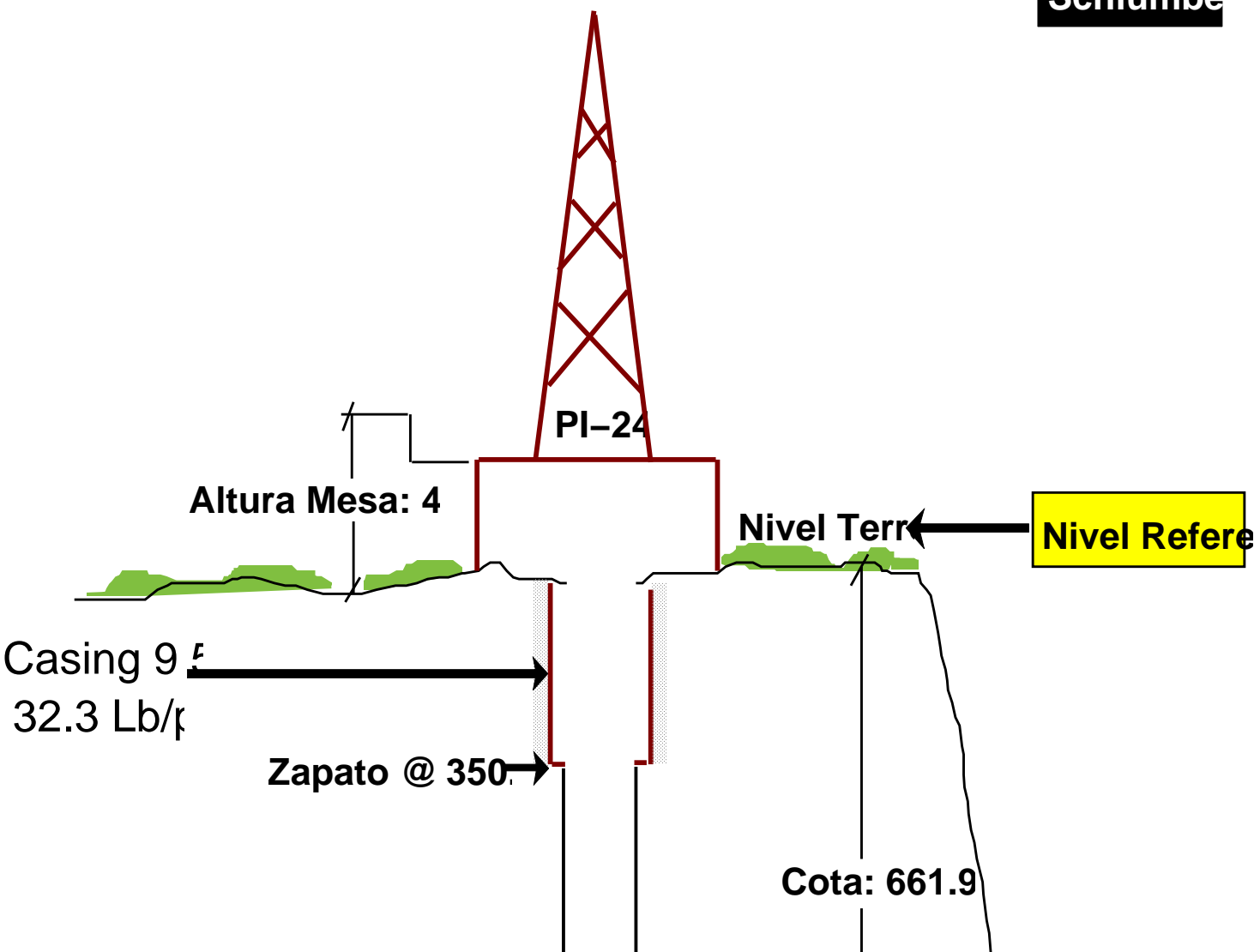
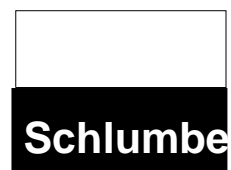
MS 6.1

LF/ 6.5
 MRF/

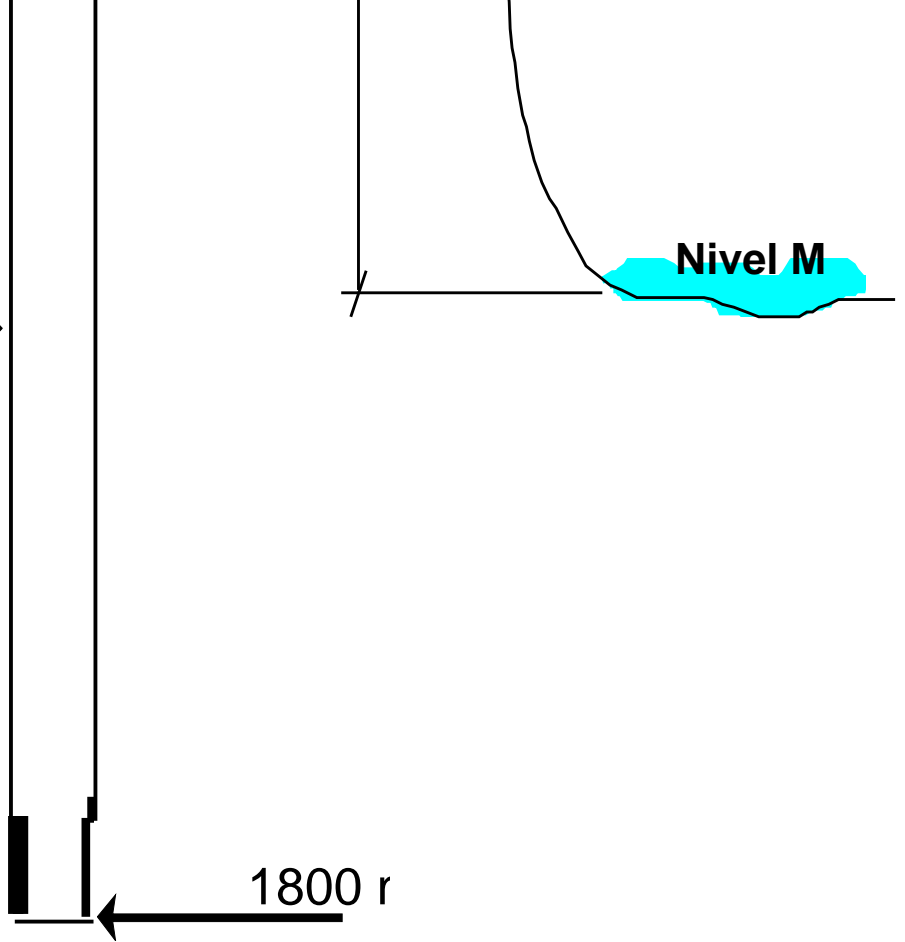




YPF.Ch.EA



Trepano
8 3/4" @



Schlumberger

RESUMEN DE LA OPERACION

MAXIS Field Log

Client: YPF S.A.
Field: EL ALBA
Well: YPF.Ch.EA-695
Run date: 29-Jun-2006

Tool: MRPS_1-
Probe Type: Conventional probe
Gauge: BQP1
Gauge Resolution: 0.010 psi

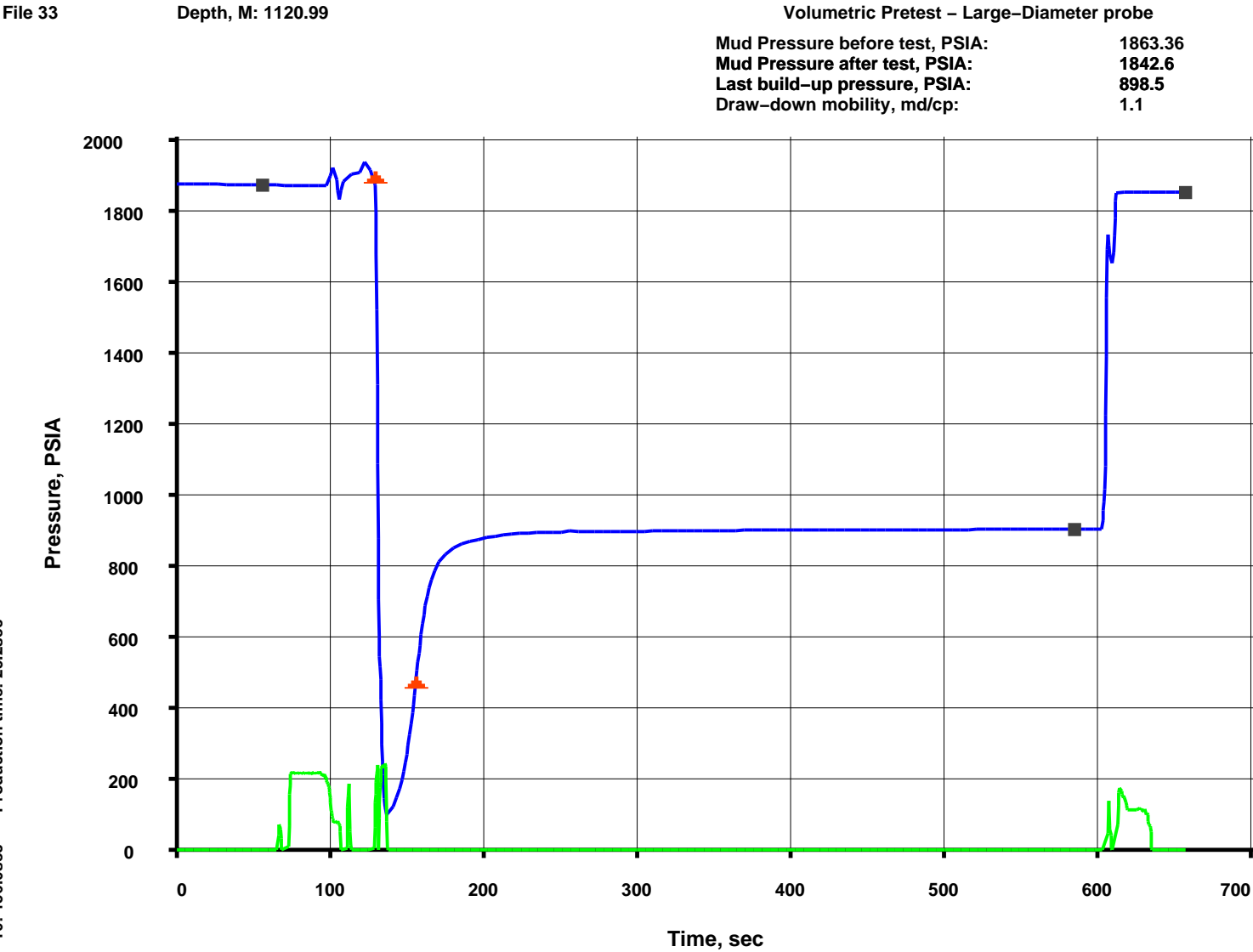
Test	File	Depth	TVD	Drawdown Mobility MD/CP	Mud Pressure		Last read build-up Pres PSIA	Formation Pressure PSIA	Test Type
		M	M		Before PSIA	After PSIA			
1	44	1294.27	1294.27	0.03	2185.85	2066.68	1281.31	1281.31	Volumetric Pretest
3	45	1668.28	1668.28	166.95	2868.82	2858.71	1567.39	1567.39	Volumetric Pretest
5	47	1738.32	1738.32		2882.21	2873.56	69.14	69.14	Dry Test
7	48	1742.46	1742.46	2.39	2871.06	2858.36	1602.04	1602.04	Volumetric Pretest
12	49	1763.98	1763.98	2.55	2908.29	2893.98	1745.21	1745.21	Volumetric Pretest
2	33	1120.99	1120.99	1.12	1863.36	1842.51	898.50	898.50	Volumetric Pretest
5	34	1138.48	1138.48	130.73	1871.36	1846.48	736.12	736.12	Volumetric Pretest
6	35	1188.27	1188.27	1.23	1942.75	1928.67	897.51	897.51	Volumetric Pretest

33	1188.27	1188.27	1.23	1942.75	1928.07	897.51	897.51	Volumetric Pretest
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PRETEST@1121 M

MAXIS Field Log



Company: Well:

Output DLIS Files

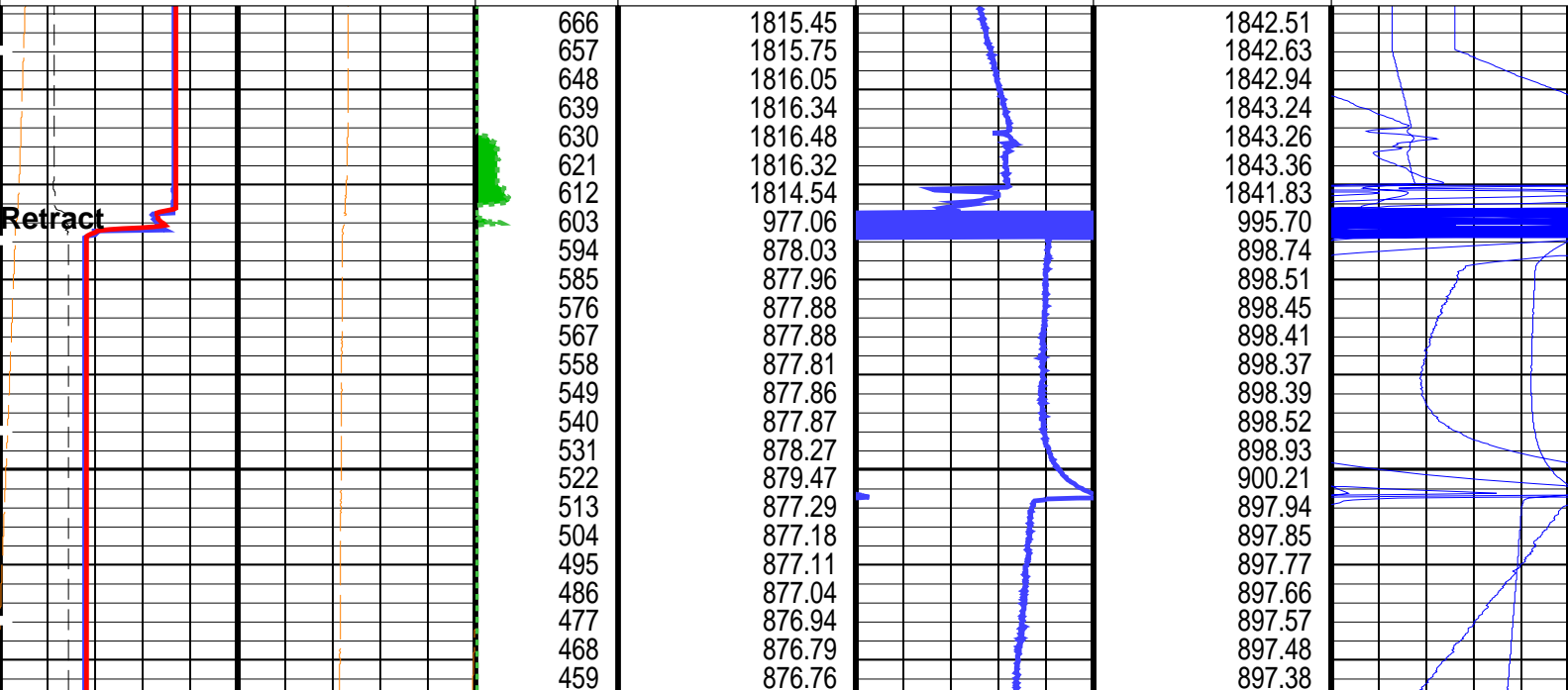
DEFAULT MDT_OFA_033LTP FN:32 PRODUCER 29-Jun-2006 03:51 1121.0 M 1.7 M

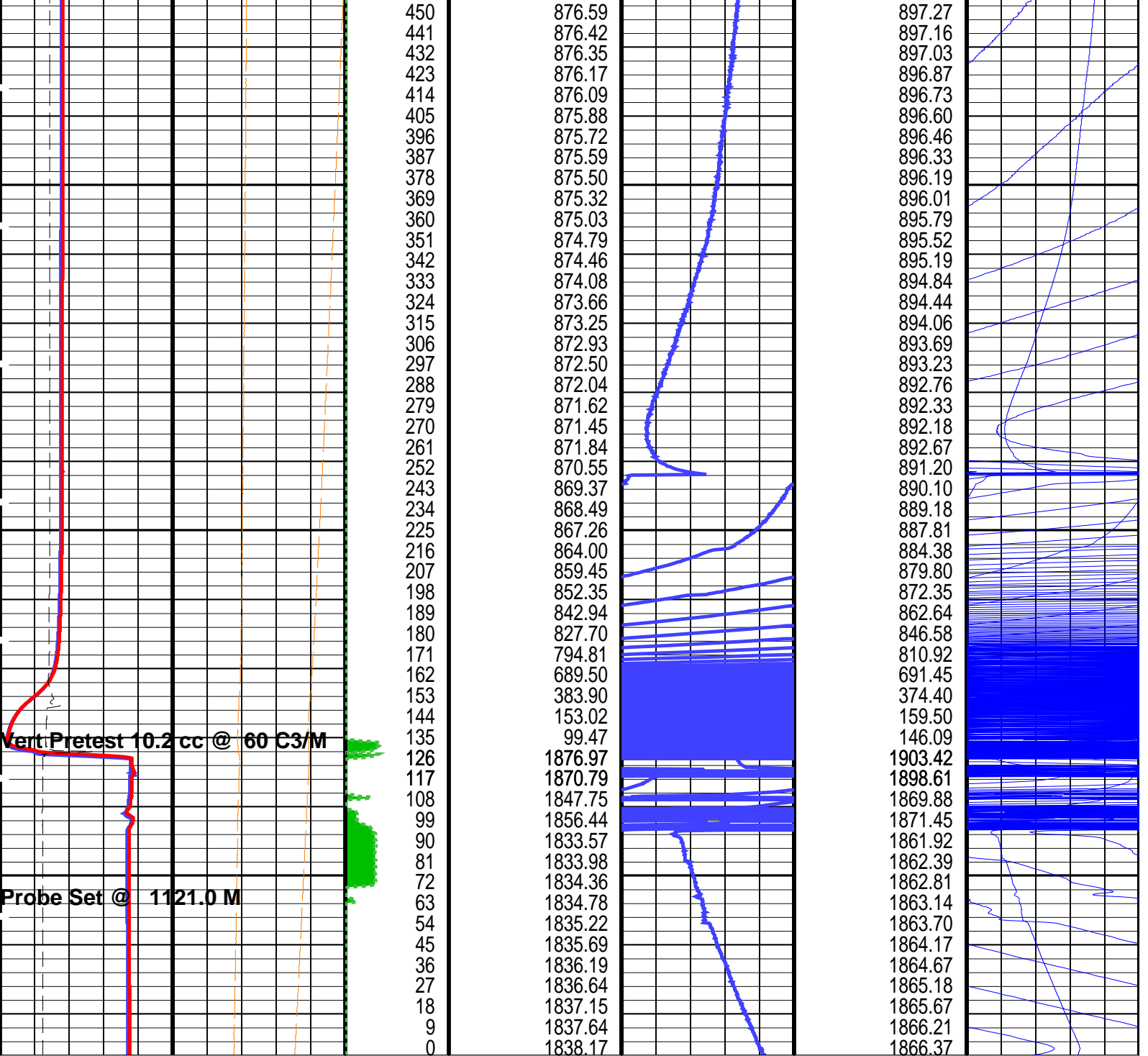
Elapsed Time (s)	Event Summary
607.5	Retract Single Probe Module (MRPS) 1
124.5	Vert Pretest 10.2 cc @ 60 C3/M Single Probe Module (MRPS) 1
69.0	Probe Set @ 1121.0 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S

MRPS 1 Resistivity Cell Temperature (B1TR) 100 (DEGF) 150					
MRPS 1 Flowline Fluid Resistivity (BFR1) 0 (OHMM) 1					
MRPS 1 Quartz Gauge Temperature (BQT1) 100 (DEGF) 150					
MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 5000	MRHY 1 Motor Speed (HMS1) 0 (RPM) 8000	MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 10			
MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 5000	Elapsed Time (ETIM) (S)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 10	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 1





MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 5000	Elapsed Time (ETIM) (S)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 10	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 1
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 5000	MRHY 1 Motor Speed (HMS1) (RPM) 0 8000				MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 10
MRPS 1 Quartz Gauge Temperature (BQT1) (DEGF) 100 150					
MRPS 1 Flowline Fluid Resistivity (BFR1) (OHMM) 0 1					
MRPS 1 Resistivity Cell Temperature (B1TR)					

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
	MRPS_1: Single Probe Module (MRPS) 1	
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGF	Quartz Gauge Flow Line Density	1 G/C3
	LFA: Live Fluid Analyzer	
PDCO	Probe Depth Correction Offset	0 M
	MRPC: Power Cartridge	
PDCO	Probe Depth Correction Offset	0 M

Format: MRPS_1_SGQG_Station Vertical Scale: 1" per 60S Graphics File Created: 29-Jun-2006 03:51

OP System Version: 14C0-302
MCM

MRPS_1	14C0-302	MRHY_1	14C0-302
LFA	14C0-302	MRPO	14C0-302
MRMS_1	14C0-302	MRPC	14C0-302
SGT-L	14C0-302	TCC-BF	14C0-302

Output DLIS Files

DEFAULT MDT_OFA_033LTP FN:32 PRODUCER 29-Jun-2006 03:51



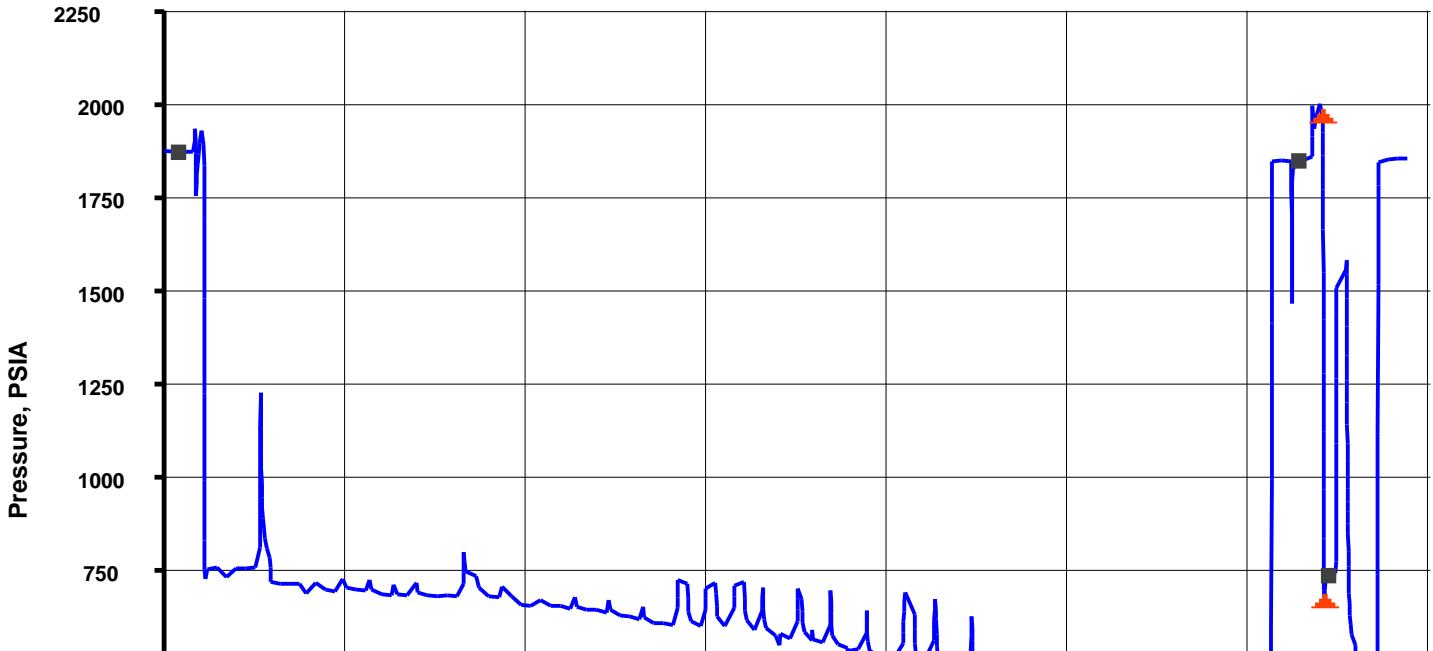
PRETEST@1138.5 M

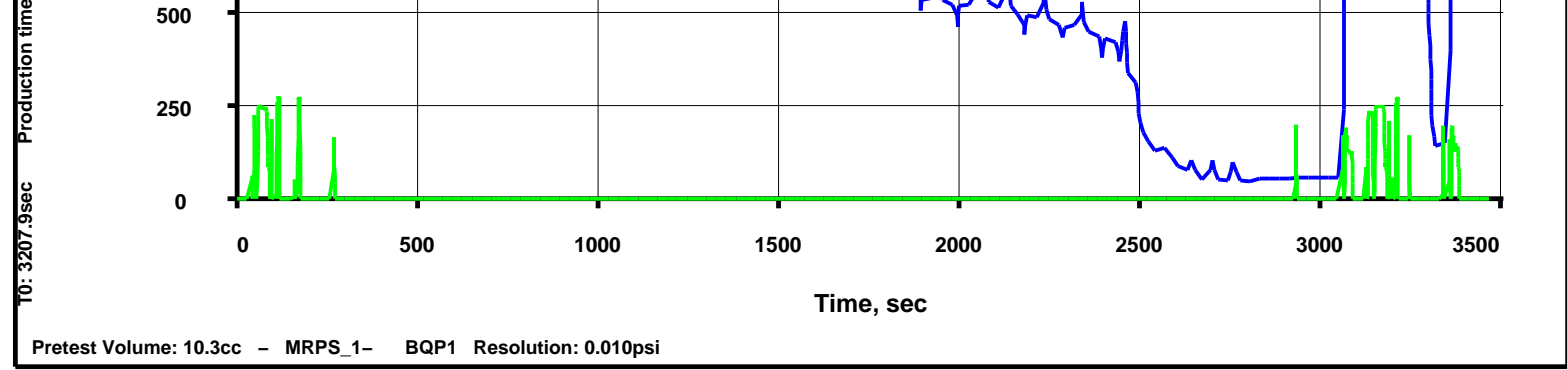
MAXIS Field Log

File 34 Depth, M: 1138.48

Volumetric Pretest - Large-Diameter probe

Mud Pressure before test, PSIA: 1871.36
 Mud Pressure after test, PSIA: 1846.48
 Last build-up pressure, PSIA: 736.12
 Draw-down mobility, md/cp: 130.7





Company: _____ Well: _____

Output DLIS Files

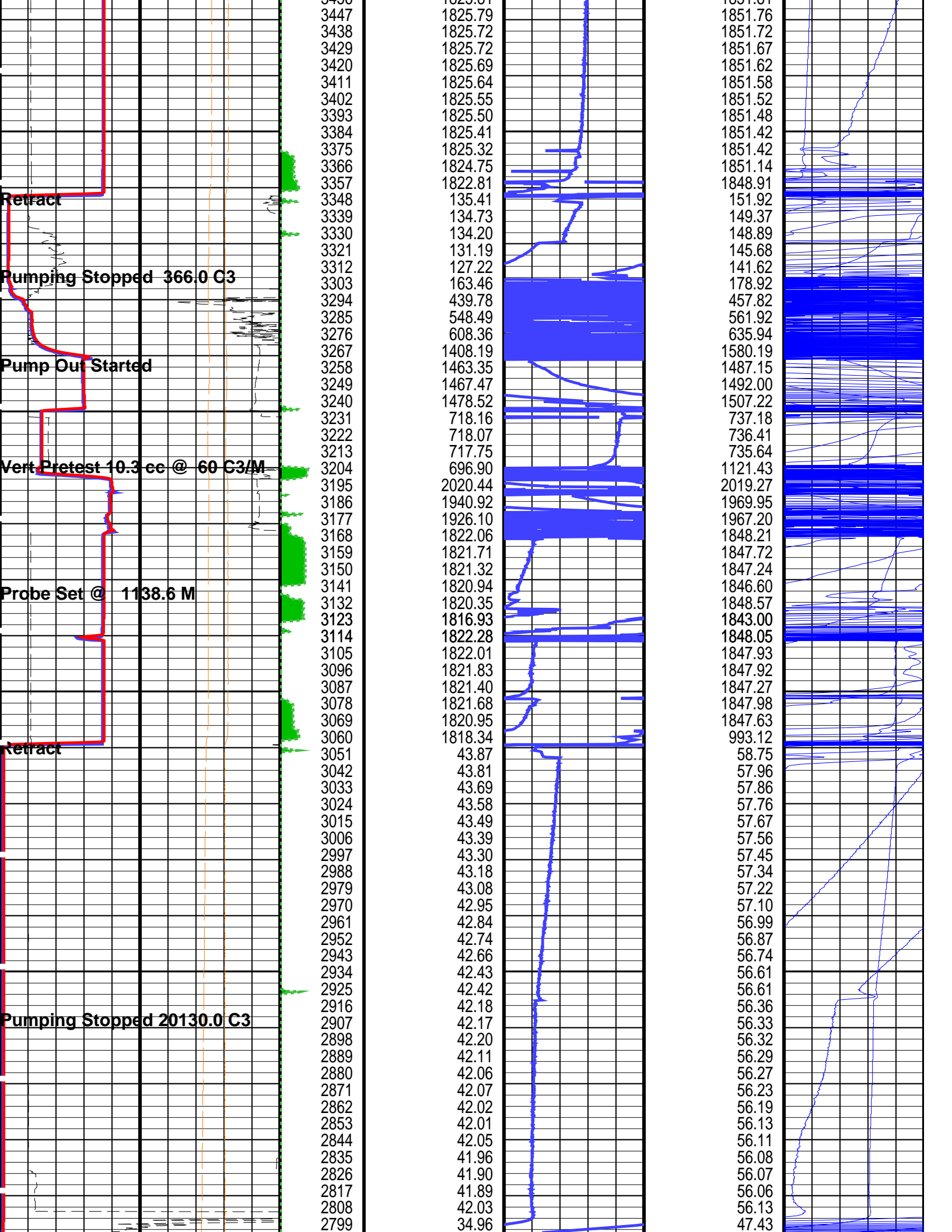
DEFAULT MDT_OFA_034LTP FN:33 PRODUCER 29-Jun-2006 04:06 1138.5 M 8.8 M

Elapsed Time (s)	Event Summary
3351.6	Retract Single Probe Module (MRPS) 1
3310.2	Pumping Stopped 366.0 C3 Dual Pumpout Module (MRPO)
3262.5	Pump Out Started Dual Pumpout Module (MRPO)
3197.1	Vert Pretest 10.3 cc @ 60 C3/M Single Probe Module (MRPS) 1
3140.4	Probe Set @ 1138.6 M Single Probe Module (MRPS) 1
3057.6	Retract Single Probe Module (MRPS) 1
2912.1	Pumping Stopped 20130.0 C3 Dual Pumpout Module (MRPO)
291.0	Pump Out Started Dual Pumpout Module (MRPO)
165.0	Vert Pretest 10.1 cc @ 60 C3/M Single Probe Module (MRPS) 1
106.8	Vert Pretest 10.1 cc @ 60 C3/M Single Probe Module (MRPS) 1
54.0	Probe Set @ 1138.5 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S

MRPS 1 Resistivity Cell Temperature (B1TR) (DEGF) 100 150					
MRPS 1 Flowline Fluid Resistivity (BFR1) (OHMM) 0 1					
MRPS 1 Quartz Gauge Temperature (BQT1) (DEGF) 100 150					
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 5000	MRHY 1 Motor Speed (HMS1) (RPM) 0 8000	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 10			
MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 5000	Elapsed Time (ETIM) (S)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 10	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 1
	3465	1825.86		1851.82	
	3456	1825.81		1851.81	



Retract

Pumping Stopped 366.0 C3

Pump Out Started

Vert. Pretest 10.3 cc @ 60 C3/M

Probe Set @ 1138.6 M

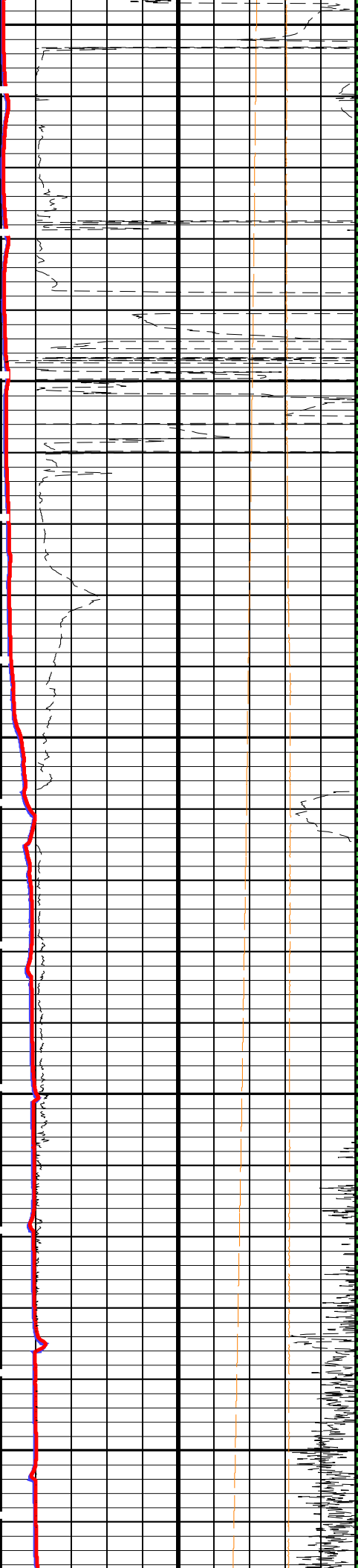
Retract

Pumping Stopped 20130.0 C3

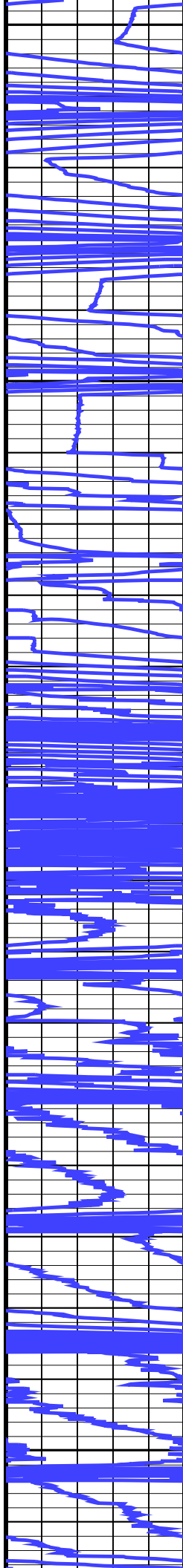
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2916
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2862
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2844
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1825.81
1825.79
1825.72
1825.72
1825.69
1825.64
1825.55
1825.50
1825.41
1825.32
1824.75
1822.81
135.41
134.73
134.20
131.19
127.22
163.46
439.78
548.49
608.36
1408.19
1463.35
1467.47
1478.52
718.16
718.07
717.75
696.90
2020.44
1940.92
1926.10
1822.06
1821.71
1821.32
1820.94
1820.35
1816.93
1822.28
1822.01
1821.83
1821.40
1821.68
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1818.34
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43.81
43.69
43.58
43.49
43.39
43.30
43.18
43.08
42.95
42.84
42.74
42.66
42.43
42.42
42.18
42.17
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42.03
34.96

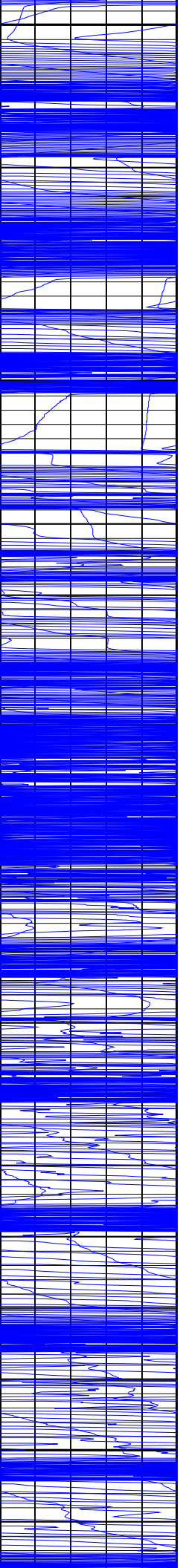
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736.41
735.64
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1848.57
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1848.05
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1847.92
1847.27
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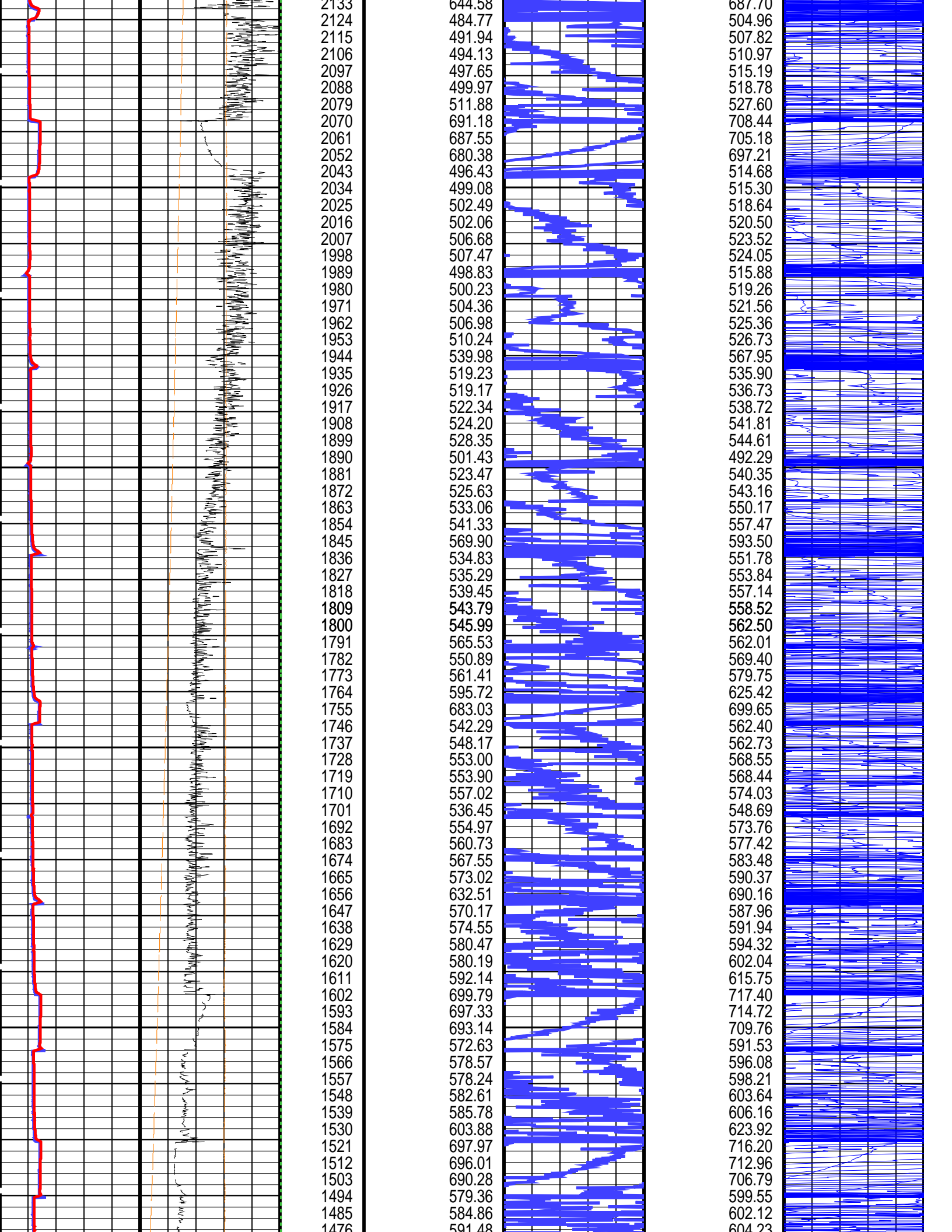


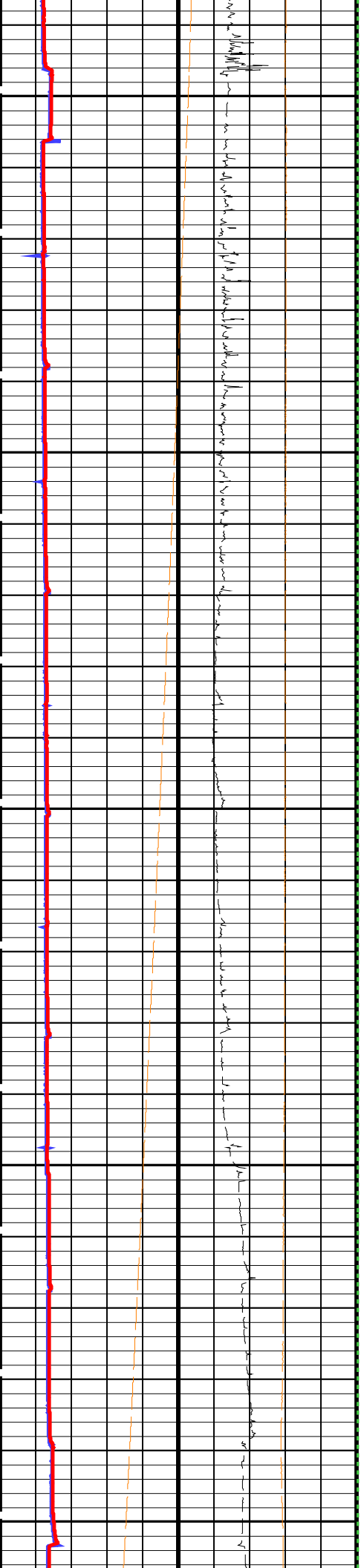
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2709	41.82
2700	69.42
2691	68.96
2682	38.39
2673	35.08
2664	42.29
2655	50.81
2646	66.59
2637	93.18
2628	64.08
2619	63.96
2610	63.80
2601	69.16
2592	83.48
2583	100.08
2574	100.80
2565	106.01
2556	114.52
2547	105.73
2538	111.50
2529	121.57
2520	128.56
2511	156.14
2502	168.56
2493	197.07
2484	283.50
2475	307.28
2466	329.88
2457	389.17
2448	430.77
2439	349.78
2430	382.90
2421	415.41
2412	424.50
2403	424.53
2394	399.90
2385	416.65
2376	421.91
2367	427.82
2358	428.19
2349	438.04
2340	458.12
2331	440.99
2322	445.51
2313	449.90
2304	453.91
2295	455.27
2286	438.34
2277	447.32
2268	449.53
2259	453.09
2250	456.98
2241	469.33
2232	623.20
2223	468.90
2214	469.42
2205	471.29
2196	477.71
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2151	480.15
2142	488.34
2133	484.52



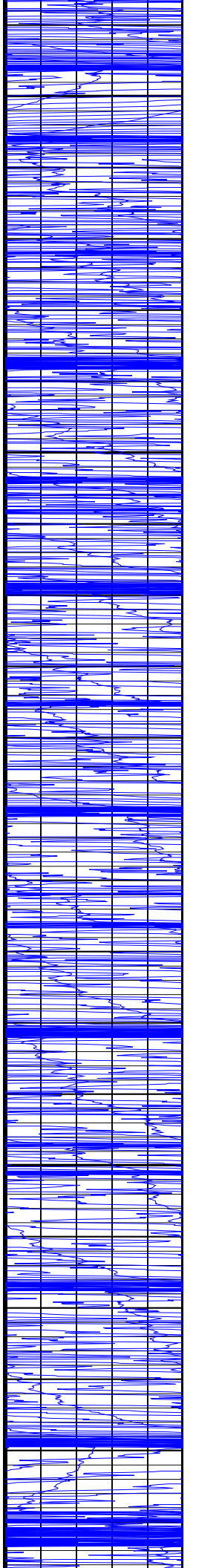
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57.77
65.64
83.14
102.82
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78.20
77.95
84.76
98.13
114.53
115.19
129.93
127.20
120.39
126.89
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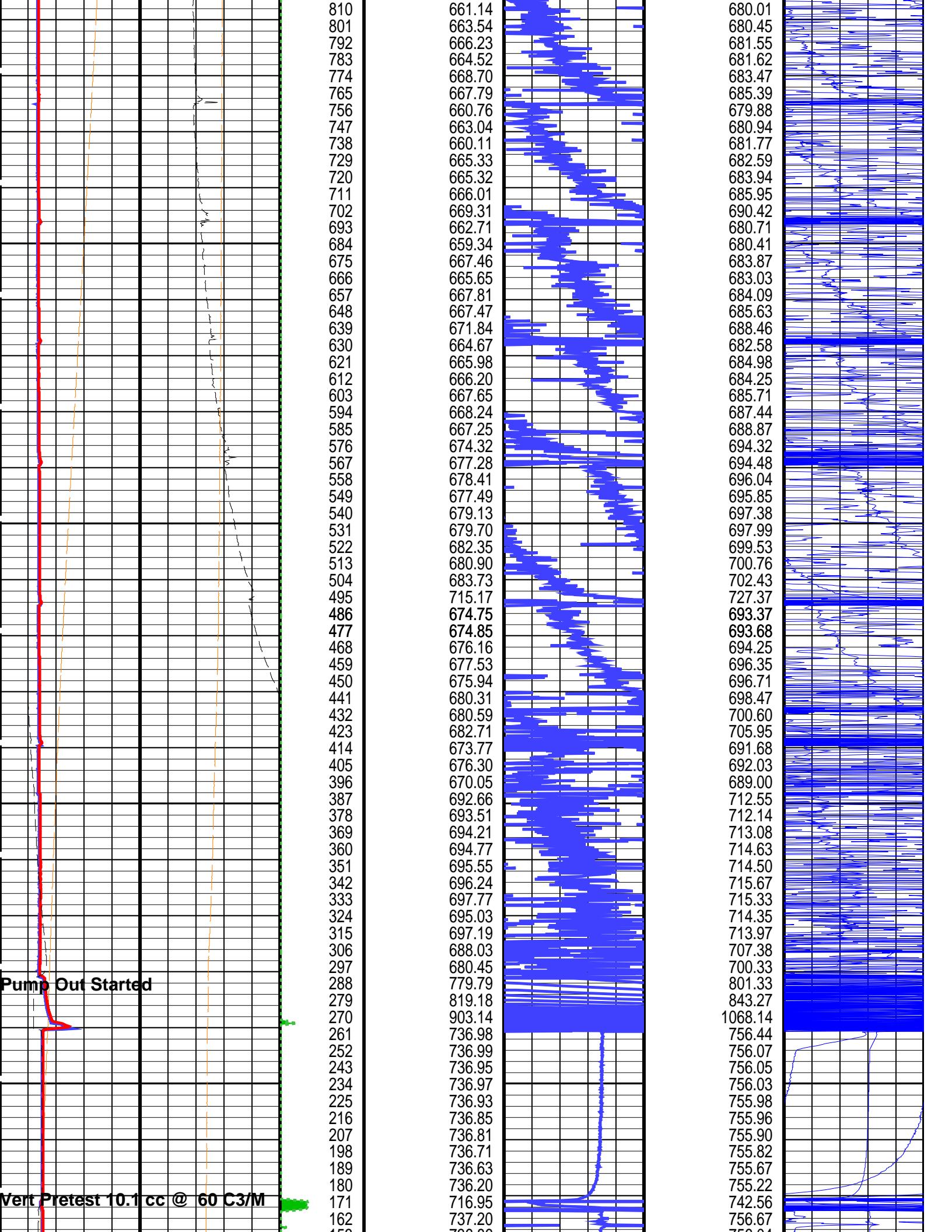


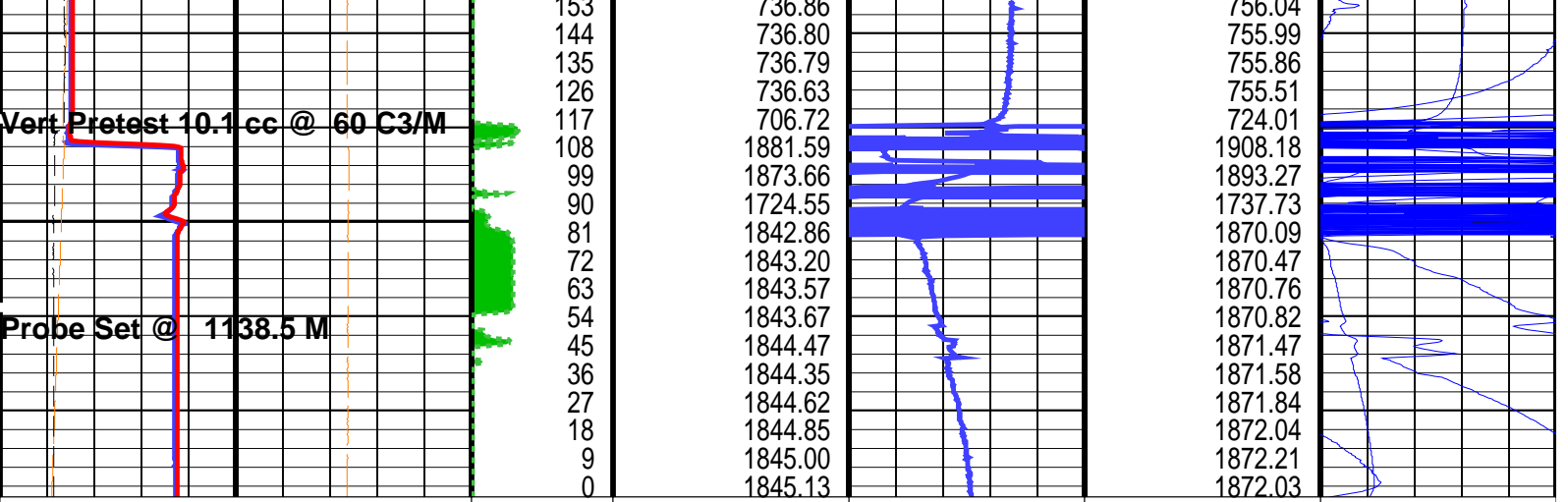




1478	591.48	604.27
1467	586.47	604.77
1458	591.36	612.73
1449	611.94	692.92
1440	697.55	713.54
1431	691.50	709.50
1422	685.44	701.42
1413	583.11	602.15
1404	587.61	602.59
1395	586.61	605.63
1386	587.44	607.61
1377	596.51	611.80
1368	583.54	603.54
1359	587.08	606.29
1350	592.71	606.09
1341	596.75	611.61
1332	596.65	614.08
1323	669.93	620.57
1314	601.66	619.55
1305	599.08	619.87
1296	608.96	623.21
1287	611.69	626.57
1278	614.52	630.69
1269	609.32	623.84
1260	610.00	629.04
1251	615.25	632.48
1242	619.42	636.11
1233	627.46	644.63
1224	619.67	635.83
1215	620.34	639.24
1206	624.05	640.42
1197	627.27	643.12
1188	628.98	646.13
1179	624.81	641.65
1170	627.32	644.26
1161	627.05	645.71
1152	632.06	648.92
1143	634.35	651.70
1134	630.47	646.79
1125	631.87	648.42
1116	630.60	648.87
1107	632.18	651.19
1098	636.03	652.83
1089	638.21	650.02
1080	632.67	650.90
1071	636.11	652.24
1062	635.02	653.99
1053	638.61	656.85
1044	648.09	669.35
1035	634.44	652.22
1026	634.01	653.48
1017	634.80	654.31
1008	639.68	657.86
999	640.34	659.45
990	635.61	654.41
981	660.36	678.04
972	660.67	678.40
963	660.69	679.82
954	662.83	681.56
945	666.31	685.29
936	686.52	713.80
927	658.45	676.80
918	658.91	678.32
909	660.84	679.26
900	660.05	680.15
891	662.83	682.73
882	666.70	686.05
873	676.12	694.98
864	716.90	734.39
855	715.89	733.35
846	715.54	731.27
837	725.52	746.14
828	789.08	744.46
819	660.15	679.41







MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 5000	Elapsed Time (ETIM) (S)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 10	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 1
MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 5000	MRHY 1 Motor Speed (HMS1) (RPM) 0 8000				MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 10
MRPS 1 Quartz Gauge Temperature (BQT1) 100 (DEGF) 150					
MRPS 1 Flowline Fluid Resistivity (BFR1) (OHMM) 0 1					
MRPS 1 Resistivity Cell Temperature (B1TR) (DEGF) 100 150					

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MRPS_1	MRPS_1: Single Probe Module (MRPS) 1	
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
LFA	Live Fluid Analyzer	
PDCO	Probe Depth Correction Offset	0 M
MRPC	Power Cartridge	
PDCO	Probe Depth Correction Offset	0 M

Format: MRPS_1_SGQG_Station Vertical Scale: 1" per 60S Graphics File Created: 29-Jun-2006 04:07

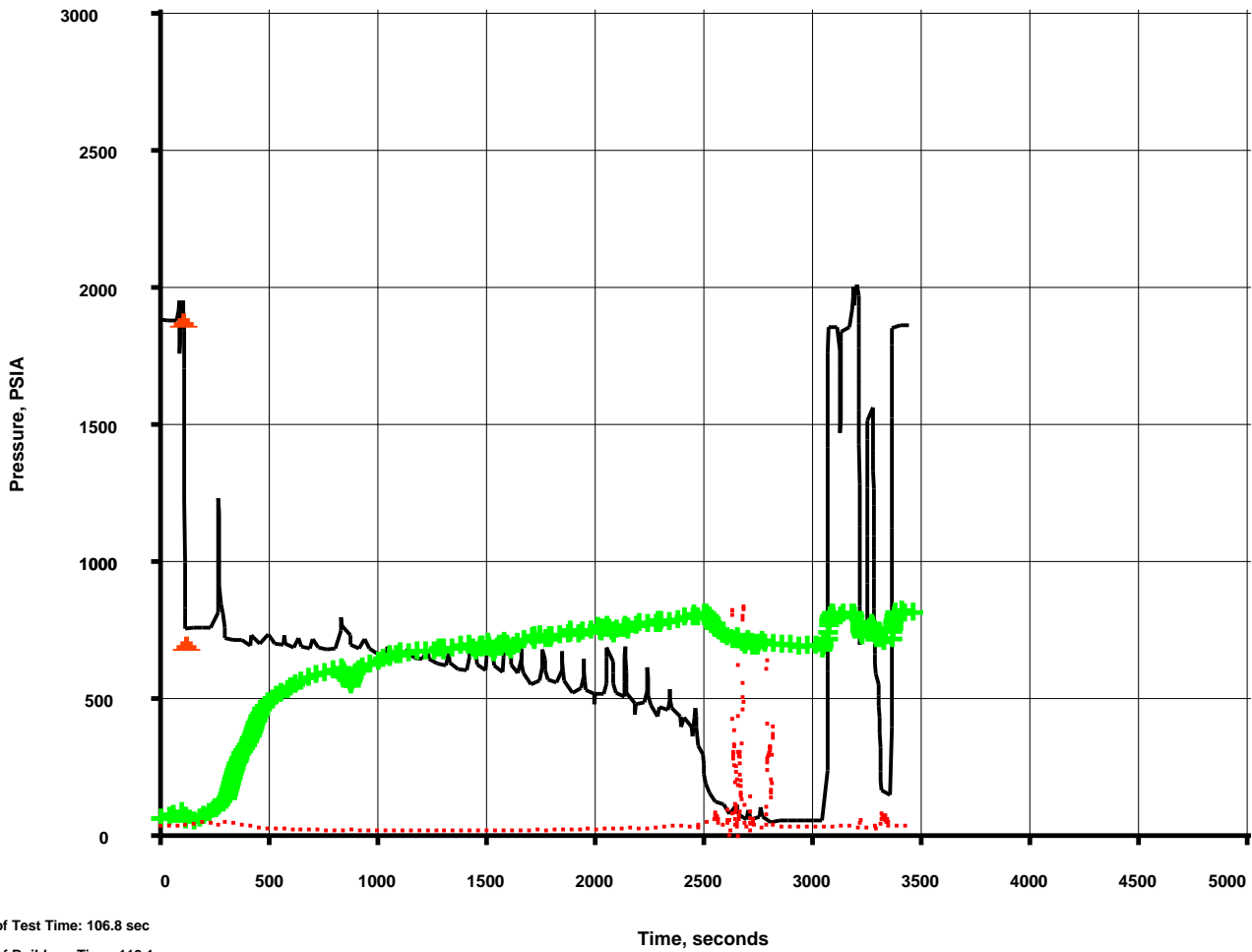
OP System Version: 14C0-302
MCM

MRPS_1	14C0-302	MRHY_1	14C0-302
LFA	14C0-302	MRPO	14C0-302
MRMS_1	14C0-302	MRPC	14C0-302
SGT-L	14C0-302	TCC-BF	14C0-302

Output DLIS Files

DEFAULT MDT_OFA_034LTP FN:33 PRODUCER 29-Jun-2006 04:06

File 34 Probe Depth (BQP1) 1138.5 M



Start of Test Time: 106.8 sec
 Start of Build-up Time: 119.1 sec
 Reference pressure at start of build-up (BQP1) 1915.8 PSIA.

Company: Well:

Output DLIS Files

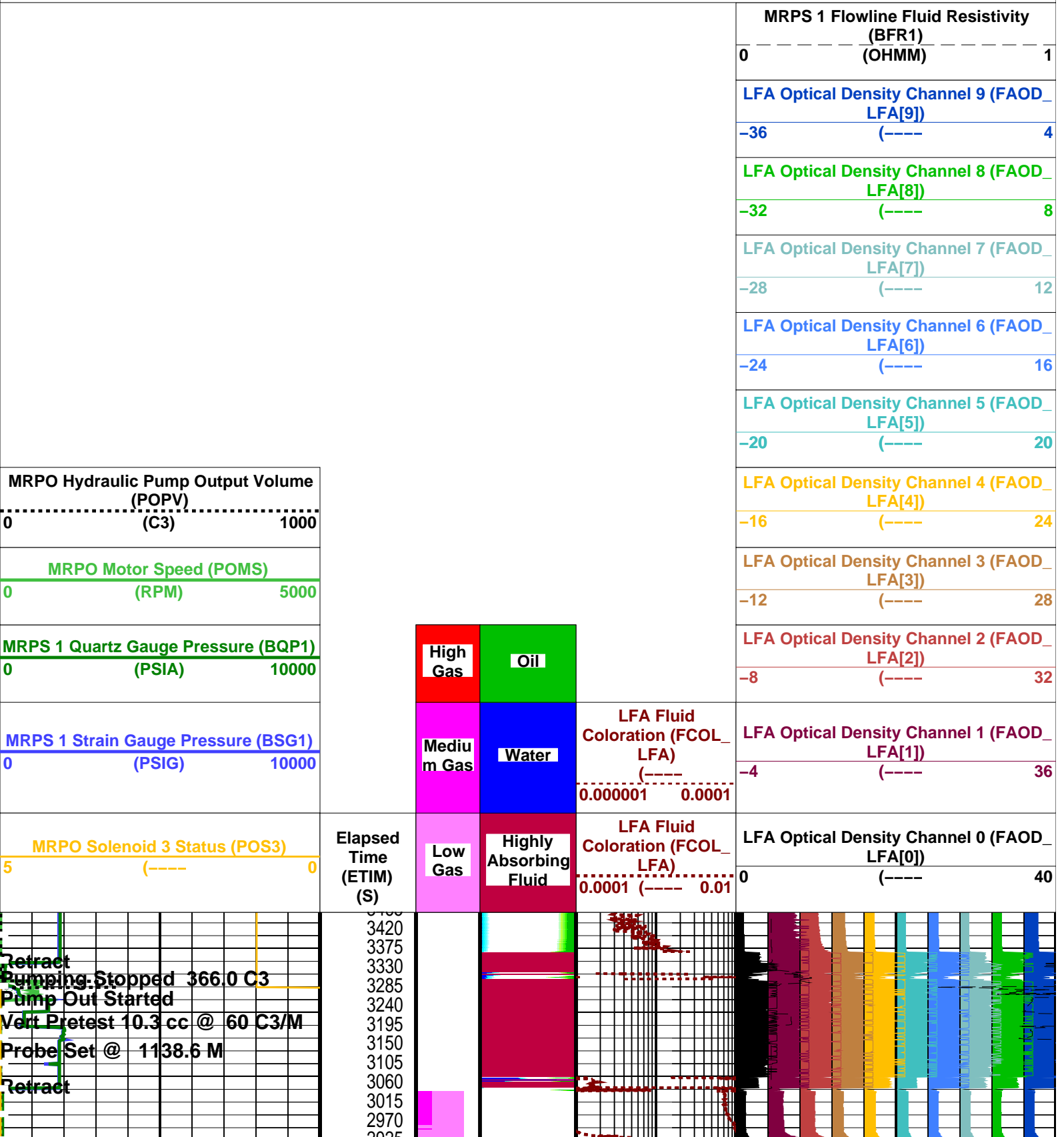
DEFAULT MDT_OFA_034LTP FN:33 PRODUCER 29-Jun-2006 04:06 1138.5 M 8.8 M

Elapsed Time (s)	Event Summary
3351.6	Retract Single Probe Module (MRPS) 1
3310.2	Pumping Stopped 366.0 C3 Dual Pumpout Module (MRPO)
3262.5	Pump Out Started Dual Pumpout Module (MRPO)
3197.1	Vert Pretest 10.3 cc @ 60 C3/M Single Probe Module (MRPS) 1
3140.4	Probe Set @ 1138.6 M Single Probe Module (MRPS) 1

3057.6	Retract Single Probe Module (MRPS) 1
2912.1	Pumping Stopped 20130.0 C3 Dual Pumpout Module (MRPO)
291.0	Pump Out Started Dual Pumpout Module (MRPO)
165.0	Vert Pretest 10.1 cc @ 60 C3/M Single Probe Module (MRPS) 1
106.8	Vert Pretest 10.1 cc @ 60 C3/M Single Probe Module (MRPS) 1
54.0	Probe Set @ 1138.5 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S



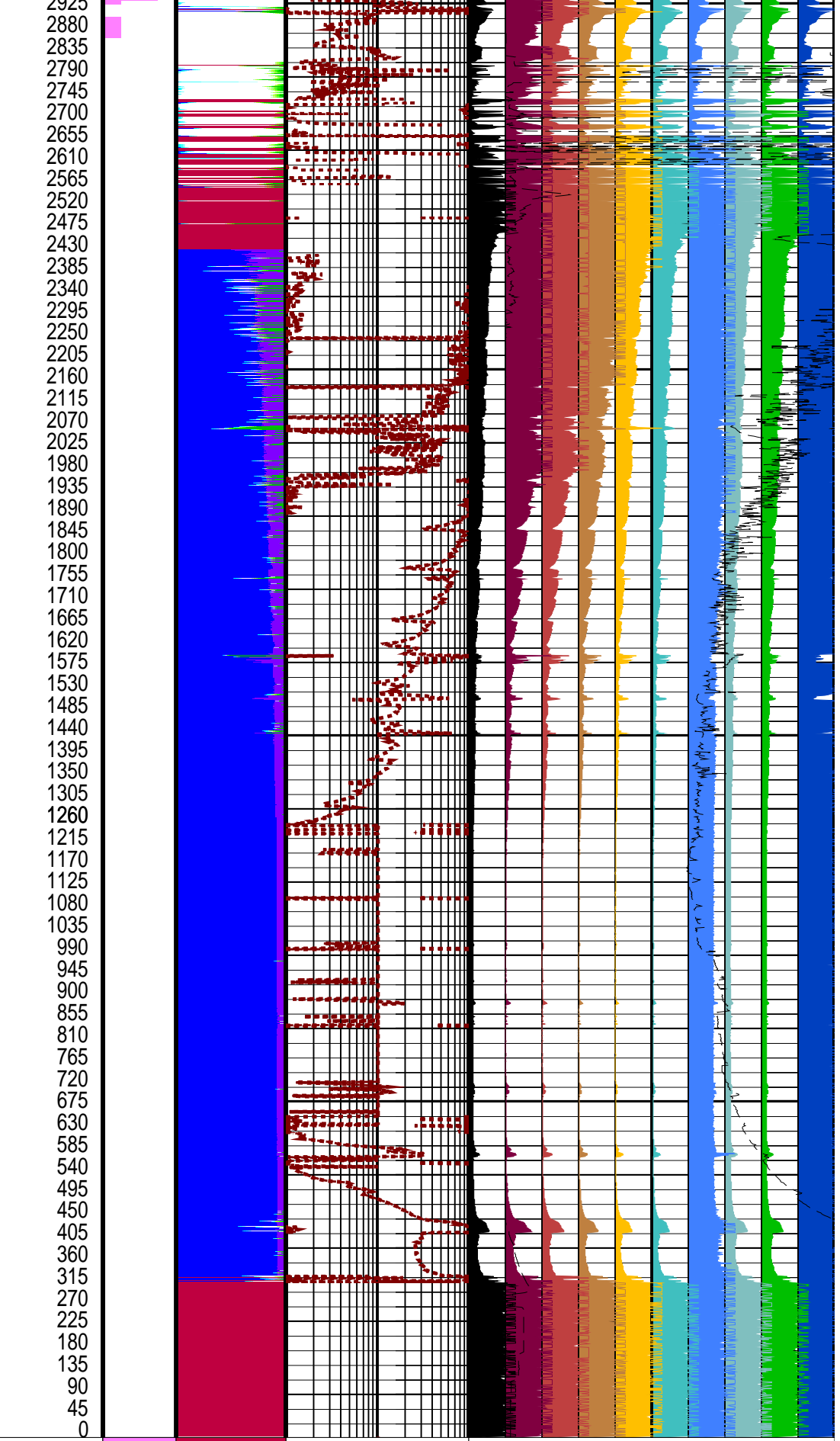
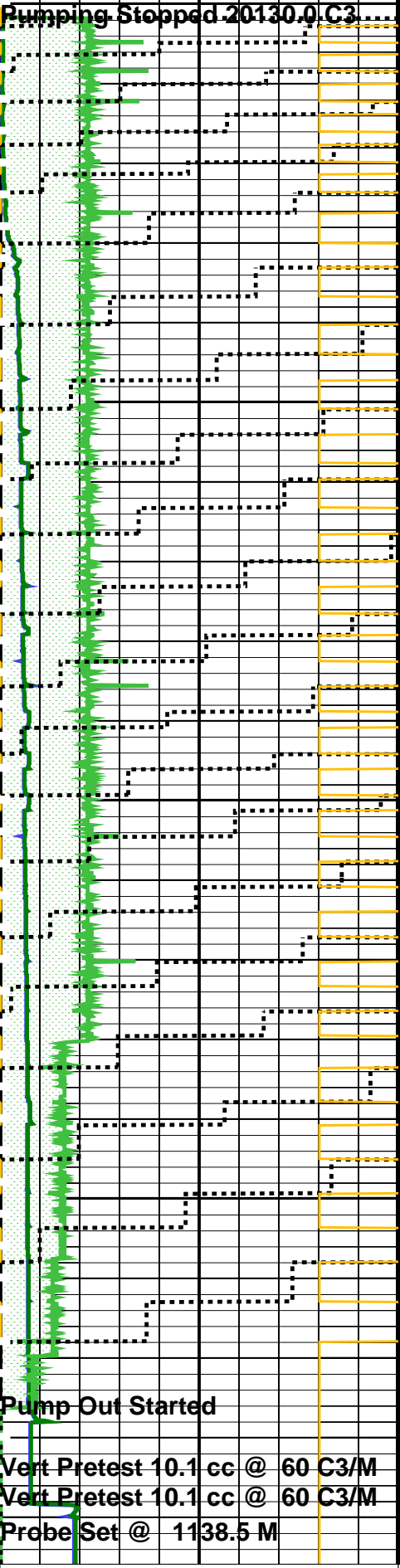
MRPO Hydraulic Pump Output Volume (POPV)	(C3)	0	1000
MRPO Motor Speed (POMS)	(RPM)	0	5000
MRPS 1 Quartz Gauge Pressure (BQP1)	(PSIA)	0	10000
MRPS 1 Strain Gauge Pressure (BSG1)	(PSIG)	0	10000
MRPO Solenoid 3 Status (POS3)	(-----)	5	0

High Gas	Oil
Medium Gas	Water
Low Gas	Highly Absorbing Fluid

LFA Fluid Coloration (FCOL_LFA)	(-----)	0.000001	0.0001
LFA Fluid Coloration (FCOL_LFA)	(-----)	0.0001	0.01

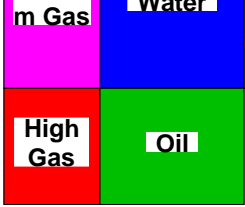
MRPS 1 Flowline Fluid Resistivity (BFR1)	(OHMM)	0	1
LFA Optical Density Channel 9 (FAOD_LFA[9])	(-----)	-36	4
LFA Optical Density Channel 8 (FAOD_LFA[8])	(-----)	-32	8
LFA Optical Density Channel 7 (FAOD_LFA[7])	(-----)	-28	12
LFA Optical Density Channel 6 (FAOD_LFA[6])	(-----)	-24	16
LFA Optical Density Channel 5 (FAOD_LFA[5])	(-----)	-20	20
LFA Optical Density Channel 4 (FAOD_LFA[4])	(-----)	-16	24
LFA Optical Density Channel 3 (FAOD_LFA[3])	(-----)	-12	28
LFA Optical Density Channel 2 (FAOD_LFA[2])	(-----)	-8	32
LFA Optical Density Channel 1 (FAOD_LFA[1])	(-----)	-4	36
LFA Optical Density Channel 0 (FAOD_LFA[0])	(-----)	0	40

Retract	3420
Pumping Stopped 366.0 C3	3375
Pump Out Started	3330
Vert Pretest 10.3 cc @ 60 C3/M	3285
Probe Set @ 1138.6 M	3240
Retract	3195
	3150
	3105
	3060
	3015
	2970
	2925



<p>MRPO Solenoid 3 Status (POS3)</p> <p>5 (-----) 0</p>	<p>Elapsed Time (ETIM) (S)</p>	<p>Low Gas</p>	<p>Highly Absorbing Fluid</p>	<p>LFA Fluid Coloration (FCOL_LFA)</p> <p>0.0001 (-----) 0.01</p>	<p>LFA Optical Density Channel 0 (FAOD_LFA[0])</p> <p>0 (-----) 40</p>
<p>MRPS 1 Strain Gauge Pressure (BSG1)</p>		<p>Medium</p>	<p>Water</p>	<p>LFA Fluid Coloration (FCOL_LFA)</p>	<p>LFA Optical Density Channel 1 (FAOD_LFA[1])</p>

0	(PSIG)	10000
MRPS 1 Quartz Gauge Pressure (BQP1)		
0	(PSIA)	10000
MRPO Motor Speed (POMS)		
0	(RPM)	5000
MRPO Hydraulic Pump Output Volume (POPV)		
0	(C3)	1000



-4	(----	36
LFA Optical Density Channel 2 (FAOD_ LFA[2])		
-8	(----	32
LFA Optical Density Channel 3 (FAOD_ LFA[3])		
-12	(----	28
LFA Optical Density Channel 4 (FAOD_ LFA[4])		
-16	(----	24
LFA Optical Density Channel 5 (FAOD_ LFA[5])		
-20	(----	20
LFA Optical Density Channel 6 (FAOD_ LFA[6])		
-24	(----	16
LFA Optical Density Channel 7 (FAOD_ LFA[7])		
-28	(----	12
LFA Optical Density Channel 8 (FAOD_ LFA[8])		
-32	(----	8
LFA Optical Density Channel 9 (FAOD_ LFA[9])		
-36	(----	4
MRPS 1 Flowline Fluid Resistivity (BFR1)		
0	(OHMM)	1

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MRPS_1: Single Probe Module (MRPS) 1		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
LFA: Live Fluid Analyzer		
C1C7SIG_LFA	LFA C1/C7 Signal Values in 1g/cc	** V **
CEXP_LFA	LFA Coloration Exponent	4.6
FAGM_LFA	LFA GOR Allow/Disallow Mode	ALLOW
FAJM_LFA	LFA Job Mode	LFA
FATCM_LFA	LFA Temp. Coef. Measure Mode	** V **
FATCS_LFA	LFA Temp. Coef. Source Mode	** V **
GASH_LFA	LFA Gas Indicator High Level Threshold	0.4
GASL_LFA	LFA Gas Indicator Low Level Threshold	0.05
GASM_LFA	LFA Gas Indicator Medium Level Threshold	0.1
GORD_LFA	LFA GOR Disqualification Level	0.1
PDCO	Probe Depth Correction Offset	0 M
SATL_LFA	LFA Saturation Level of Optical Density Measurement	** V **
TCPS_STATUS_LFA	LFA Temperature Compensation Coefficient Status	NOT_VALID
MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0 M

Format: LFA_Station Vertical Scale: 1" per 300S Graphics File Created: 29-Jun-2006 04:07

OP System Version: 14C0-302
MCM

MRPS_1	14C0-302	MRHY_1	14C0-302
LFA	14C0-302	MRPO	14C0-302
MRMS_1	14C0-302	MRPC	14C0-302
SGT-I	14C0-302	TCC-BE	14C0-302

Output DLIS Files

DEFAULT

MDT_OFA_034LTP

FN:33

PRODUCER

29-Jun-2006 04:06



PRETEST@1188.3 M

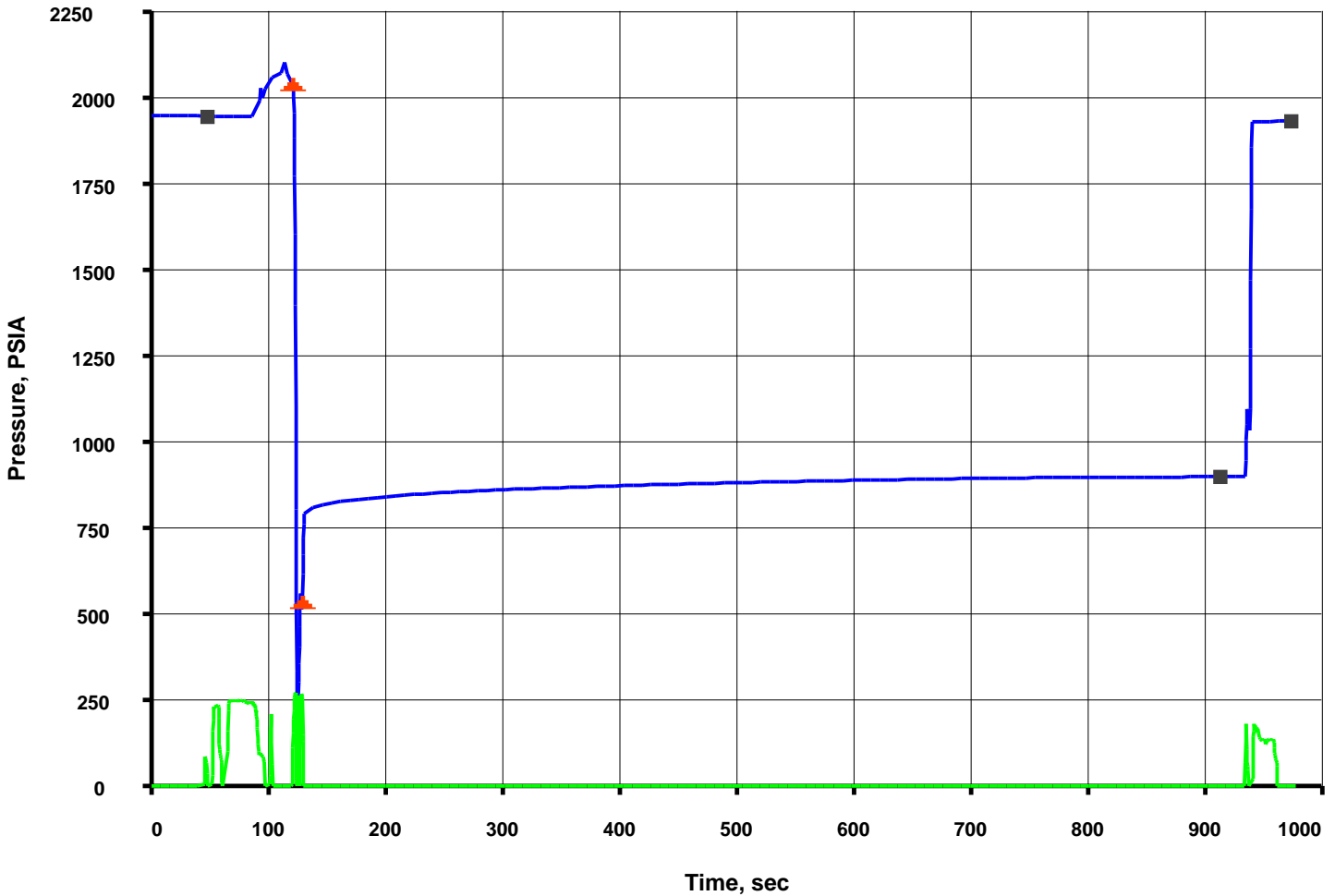
MAXIS Field Log

File 35

Depth, M: 1188.27

Volumetric Pretest - Large-Diameter probe

Mud Pressure before test, PSIA:	1942.75
Mud Pressure after test, PSIA:	1928.68
Last build-up pressure, PSIA:	897.51
Draw-down mobility, md/cp:	1.2



Company:

Well:

Output DLIS Files

DEFAULT

MDT_OFA_035LTP

FN:34

PRODUCER

29-Jun-2006 05:11

1188.3 M

2.5 M

Elapsed Time (s)

Event Summary

Time (S)

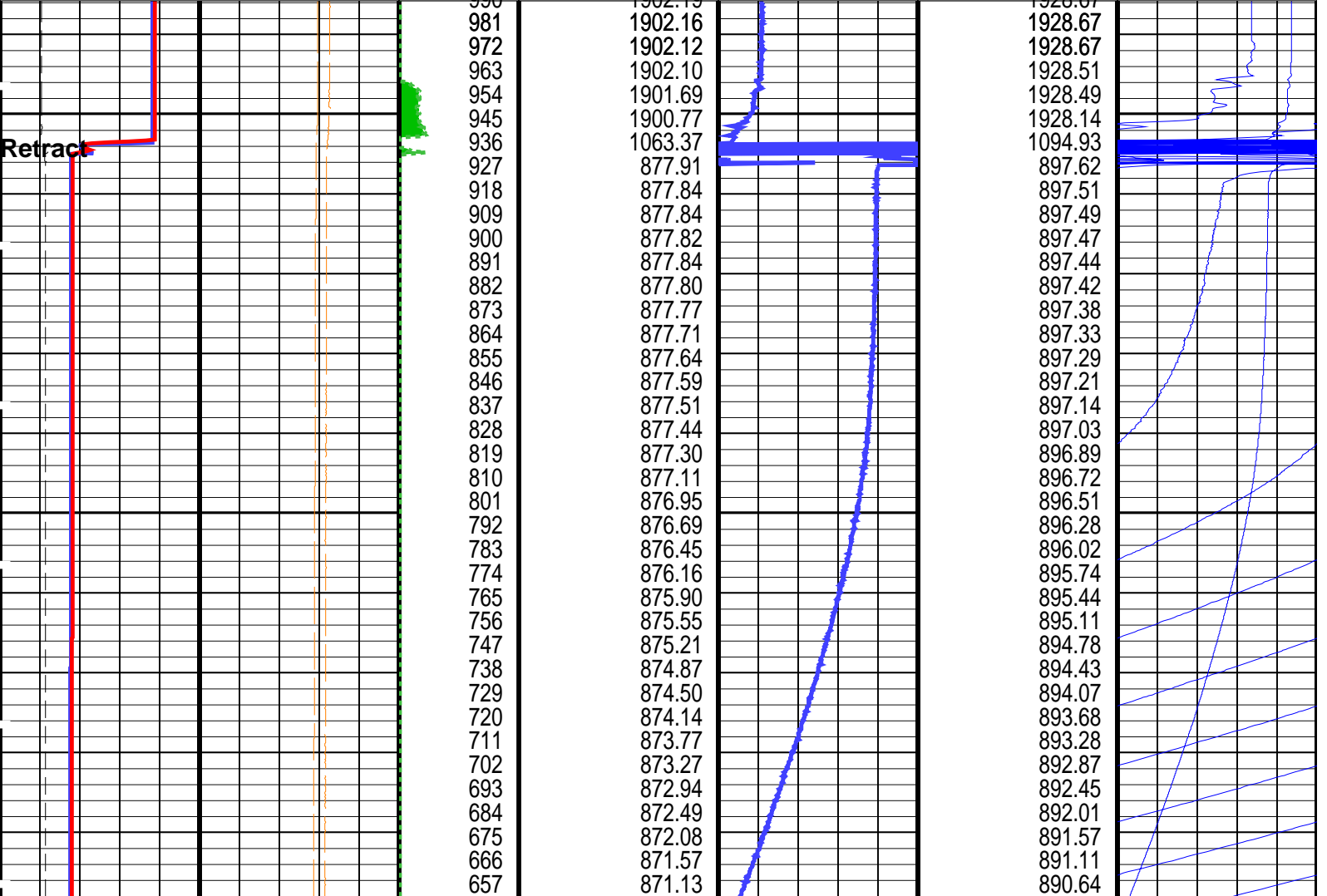
Event Summary

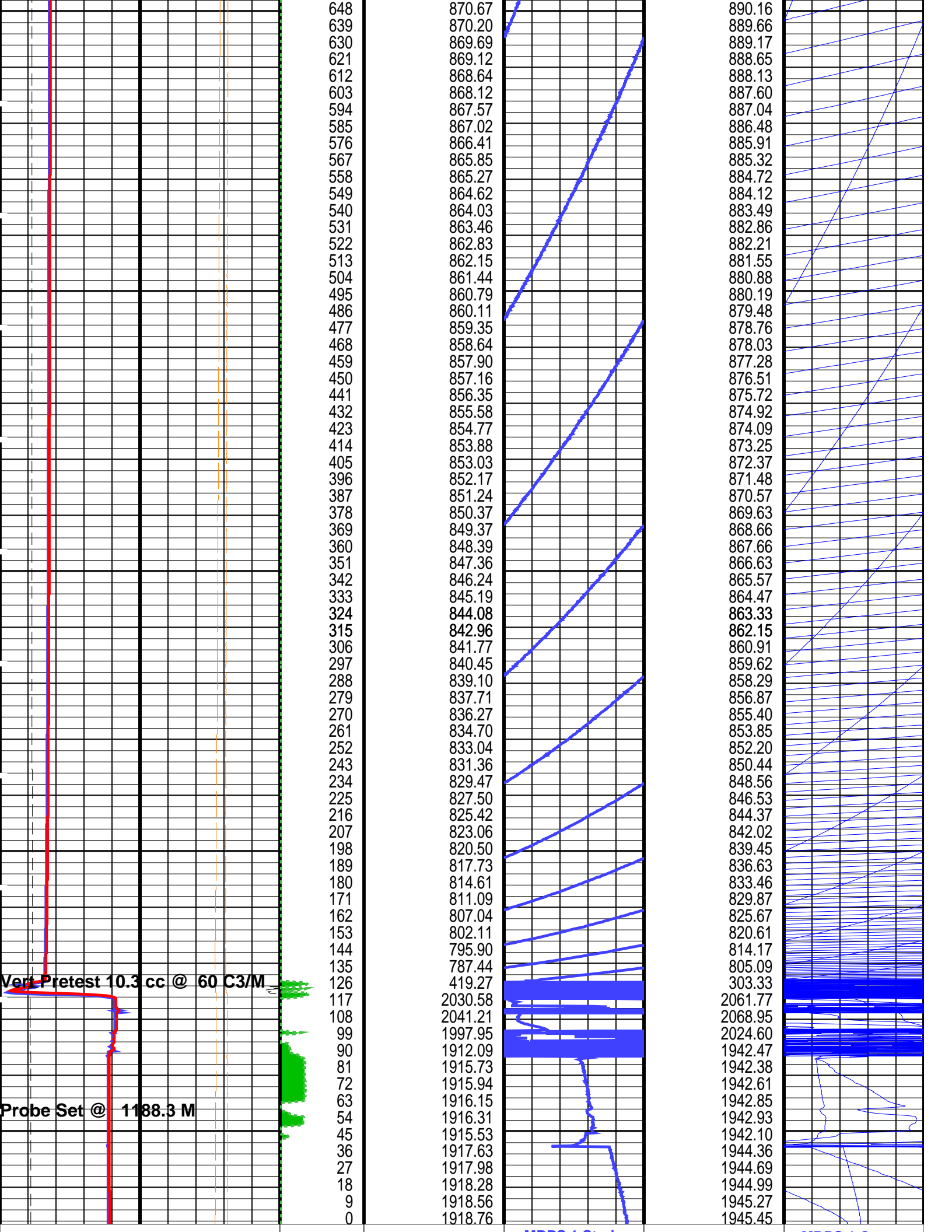
937.2	Retract Single Probe Module (MRPS) 1
116.7	Vert Pretest 10.3 cc @ 60 C3/M Single Probe Module (MRPS) 1
61.2	Probe Set @ 1188.3 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S

<p>MRPS 1 Resistivity Cell Temperature (B1TR) (DEGF)</p> <p>100 150</p>					
<p>MRPS 1 Flowline Fluid Resistivity (BFR1) (OHMM)</p> <p>0 1</p>					
<p>MRPS 1 Quartz Gauge Temperature (BQT1) (DEGF)</p> <p>100 150</p>					
<p>MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)</p> <p>0 5000</p>	<p>MRHY 1 Motor Speed (HMS1) (RPM)</p> <p>0 8000</p>			<p>MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)</p> <p>0 10</p>	
<p>MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)</p> <p>0 5000</p>	<p>Elapsed Time (ETIM) (S)</p>	<p>MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)</p>	<p>MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)</p> <p>0 10</p>	<p>MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)</p>	<p>MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)</p> <p>0 1</p>





MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 5000	Elapsed Time (ETIM) (S)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 10	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 1
MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 5000			MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 10		
MRPS 1 Quartz Gauge Temperature (BQT1) 100 (DEGF) 150	MRHY 1 Motor Speed (HMS1) (RPM) 0 8000				
MRPS 1 Flowline Fluid Resistivity (BFR1) 0 (OHMM) 1					
MRPS 1 Resistivity Cell Temperature (B1TR) 100 (DEGF) 150					

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MRPS_1: Single Probe Module (MRPS) 1		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
LFA: Live Fluid Analyzer		
PDCO	Probe Depth Correction Offset	0 M
MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0 M

Format: MRPS_1_SGQG_Station Vertical Scale: 1" per 60S Graphics File Created: 29-Jun-2006 05:11

OP System Version: 14C0-302
MCM

MRPS_1	14C0-302	MRHY_1	14C0-302
LFA	14C0-302	MRPO	14C0-302
MRMS_1	14C0-302	MRPC	14C0-302
SGT-L	14C0-302	TCC-BF	14C0-302

Output DLIS Files

DEFAULT MDT_OFA_035LTP FN:34 PRODUCER 29-Jun-2006 05:11

Schlumberger

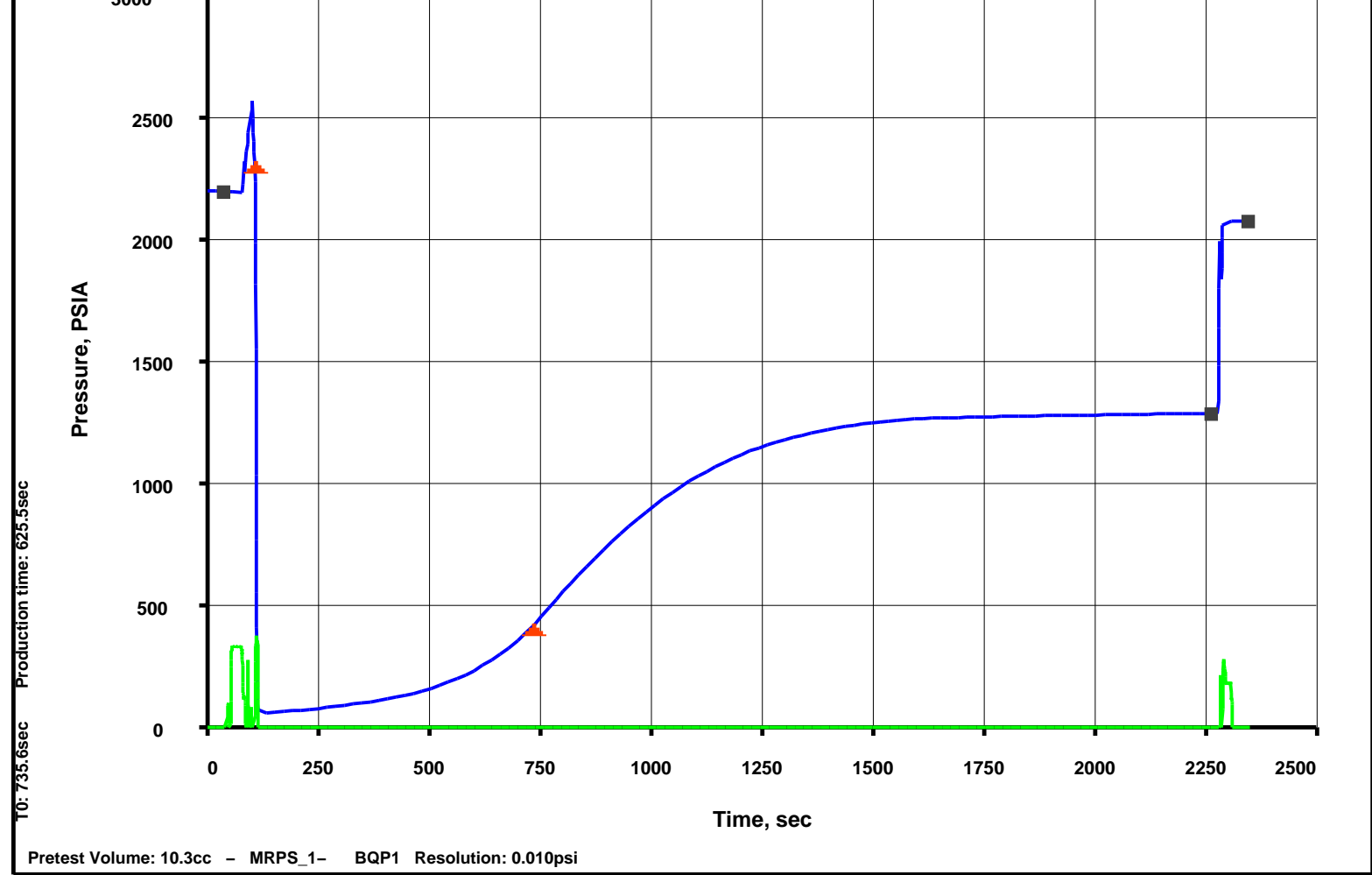
PRETEST@1294.3 M

MAXIS Field Log

File 44 Depth, M: 1294.27

Volumetric Pretest - Large-Diameter probe

Mud Pressure before test, PSIA: 2185.85
Mud Pressure after test, PSIA: 2066.68
Last build-up pressure, PSIA: 1281.31
Draw-down mobility, md/cp: 0.03



Company: _____ Well: _____

Output DLIS Files

DEFAULT MDT_044LTP FN:43 PRODUCER 29-Jun-2006 10:40

Elapsed Time (s)	Event Summary
2285.1	Retract Single Probe Module (MRPS) 1
104.1	Vert Pretest 10.3 cc @ 60 C3/M Single Probe Module (MRPS) 1
49.5	Probe Set @ 1294.3 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S

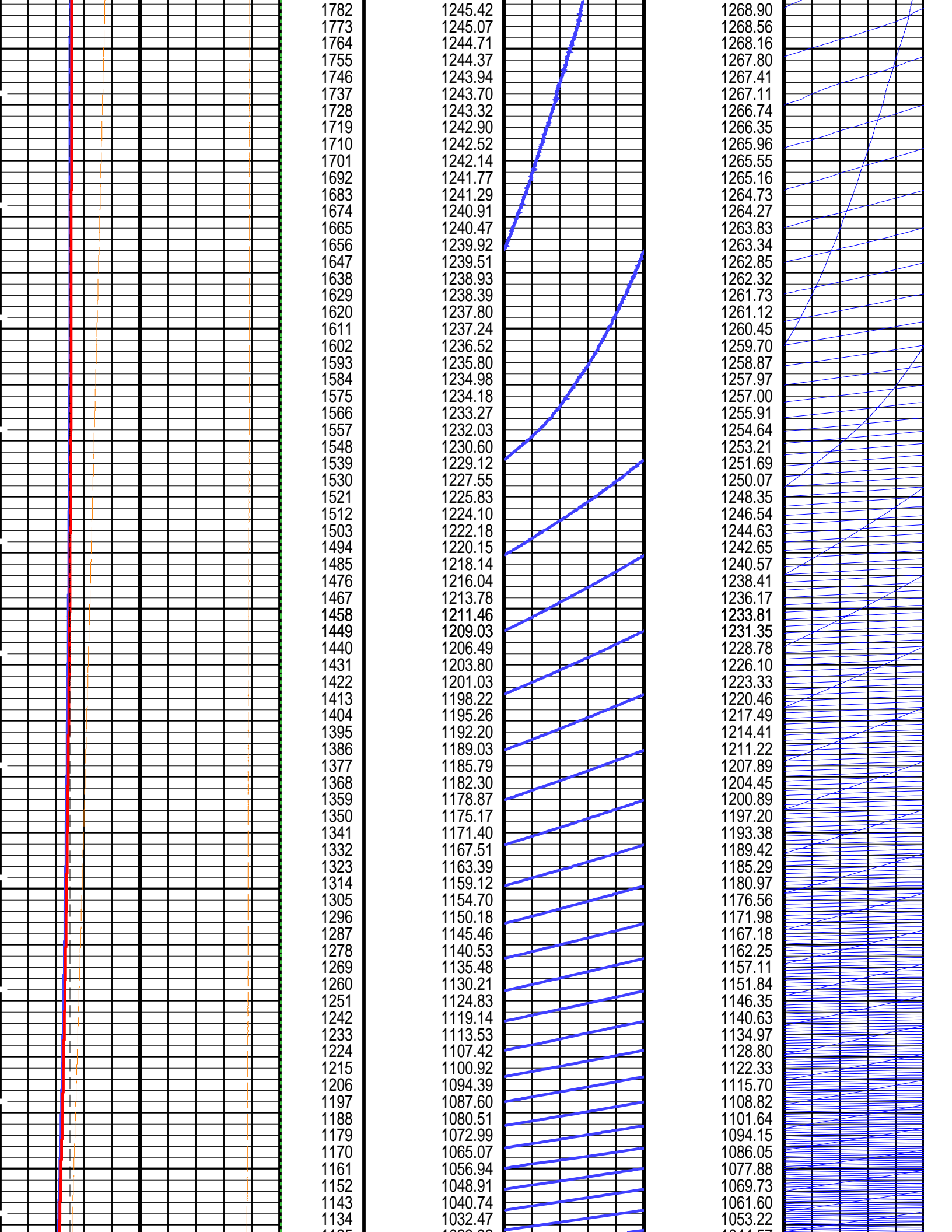
MRPS 1 Resistivity Cell Temperature (B1TR)	100	150
(DEGF)		
MRPS 1 Flowline Fluid Resistivity (BFR1)	0	1
(OHMM)		
MRPS 1 Quartz Gauge Temperature (BQT1)	100	150
(DEGF)		

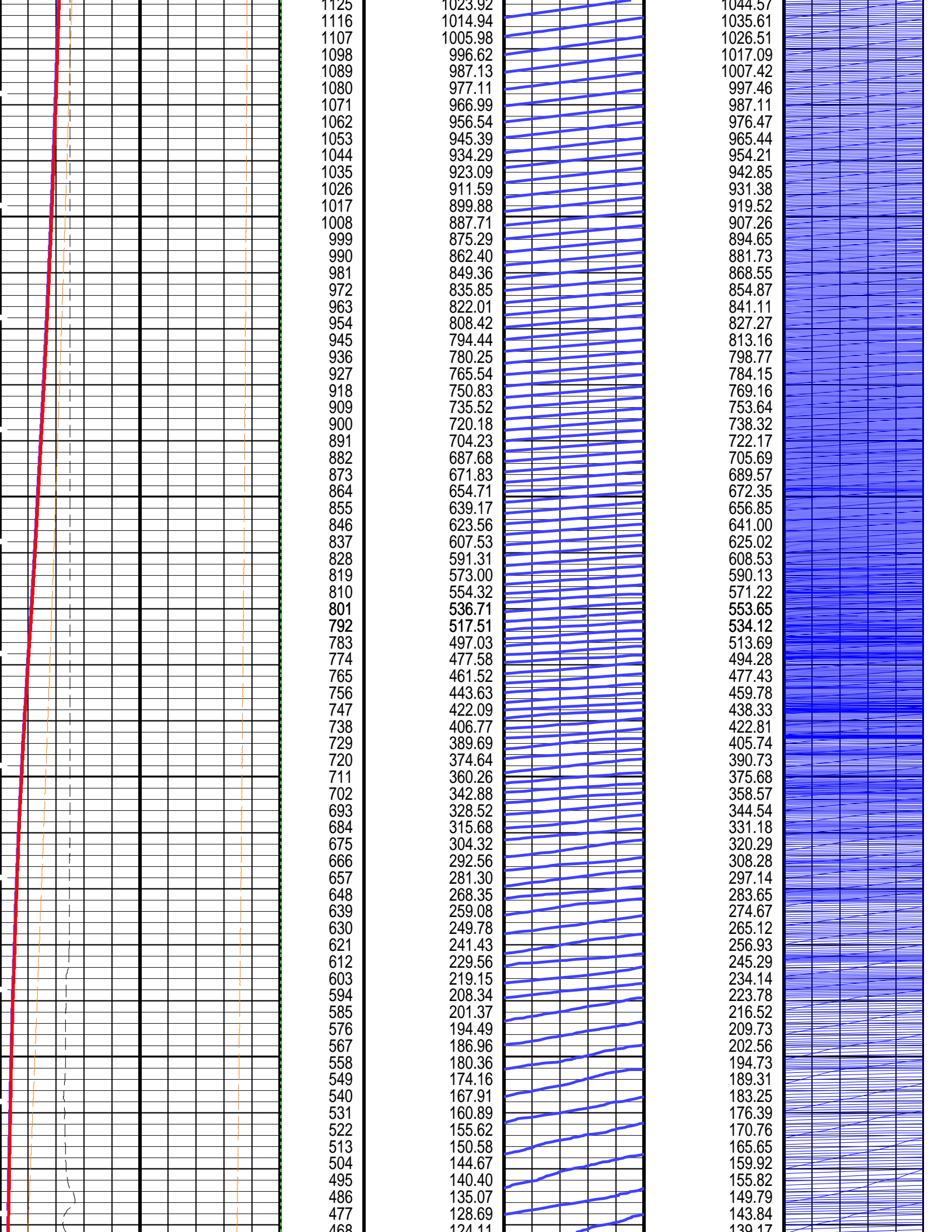
MRHY 1 Motor

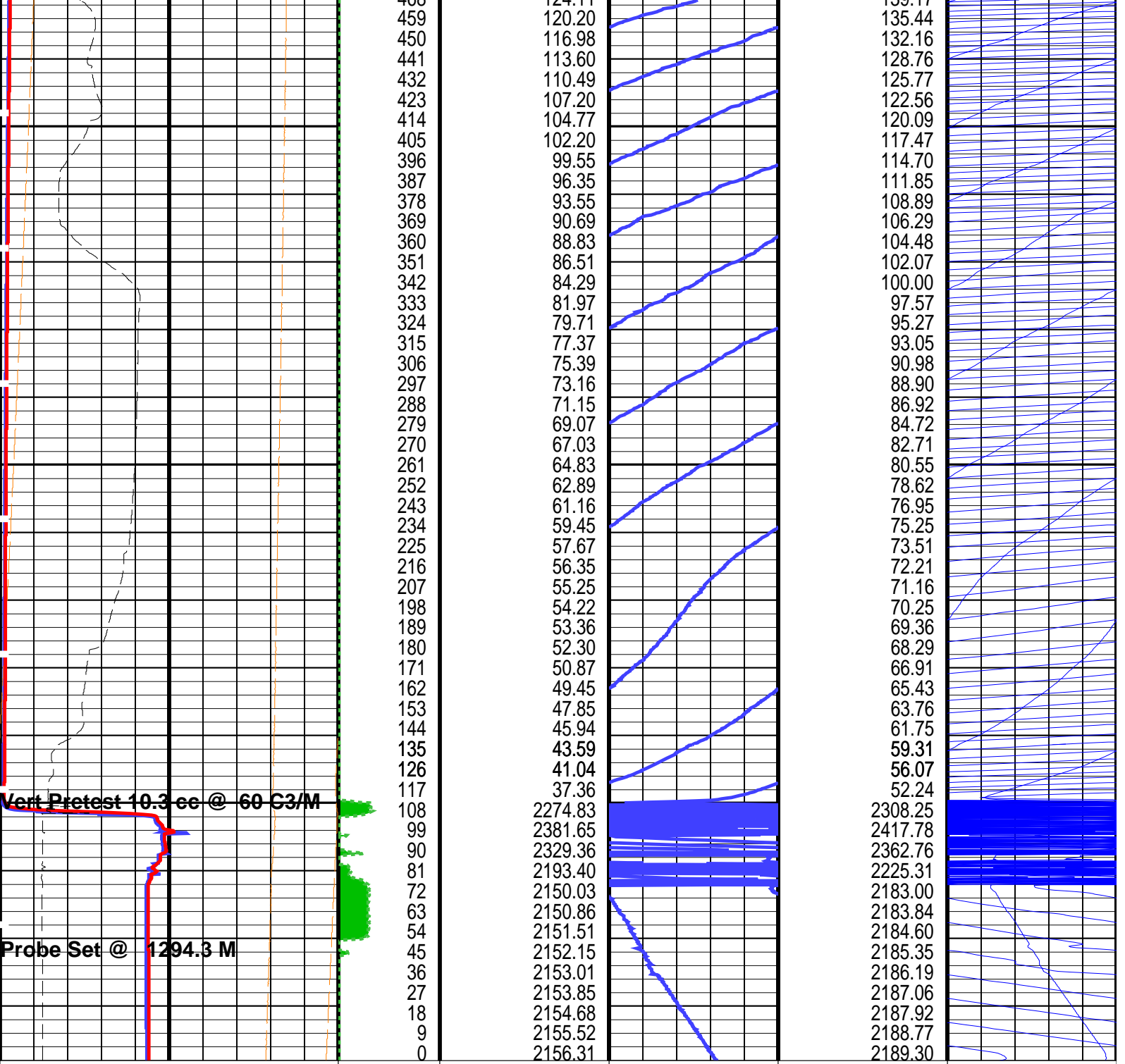
MRPS 1 Quartz

MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	Speed (HMS1) (RPM)			Gauge Pressure (BQP1) (PSIA)	
0 5000	0 8000			0 10	
MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	Elapsed Time (ETIM) (S)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)
0 5000			0 10		0 1
	2358	2038.20		2066.68	
	2349	2038.26		2066.68	
	2340	2038.29		2066.71	
	2331	2038.40		2066.71	
	2322	2038.40		2066.71	
	2313	2038.24		2066.55	
	2304	2038.05		2066.38	
	2295	2038.02		2066.03	
	2286	1757.77		1818.94	
	2277	1257.53		1282.30	
	2268	1257.63		1281.21	
	2259	1257.74		1281.36	
	2250	1257.57		1281.17	
	2241	1257.53		1281.20	
	2232	1257.59		1281.20	
	2223	1257.60		1281.24	
	2214	1257.32		1280.88	
	2205	1257.11		1280.68	
	2196	1257.00		1280.62	
	2187	1256.84		1280.41	
	2178	1256.64		1280.25	
	2169	1256.42		1280.01	
	2160	1256.13		1279.68	
	2151	1255.89		1279.46	
	2142	1255.71		1279.24	
	2133	1255.30		1278.96	
	2124	1255.10		1278.74	
	2115	1255.13		1278.68	
	2106	1254.95		1278.62	
	2097	1254.96		1278.56	
	2088	1254.77		1278.36	
	2079	1254.56		1278.10	
	2070	1254.26		1277.86	
	2061	1254.17		1277.76	
	2052	1253.96		1277.46	
	2043	1253.43		1277.04	
	2034	1253.04		1276.50	
	2025	1252.34		1275.90	
	2016	1252.10		1275.66	
	2007	1251.81		1275.36	
	1998	1251.57		1275.14	
	1989	1251.36		1274.94	
	1980	1251.20		1274.76	
	1971	1250.95		1274.52	
	1962	1250.82		1274.36	
	1953	1250.63		1274.14	
	1944	1250.33		1273.87	
	1935	1250.13		1273.67	
	1926	1249.85		1273.42	
	1917	1249.61		1273.19	
	1908	1249.46		1272.97	
	1899	1249.17		1272.76	
	1890	1249.00		1272.54	
	1881	1248.68		1272.25	
	1872	1248.37		1271.91	
	1863	1248.10		1271.62	
	1854	1247.72		1271.32	
	1845	1247.54		1271.03	
	1836	1247.23		1270.76	
	1827	1246.85		1270.39	
	1818	1246.50		1270.06	
	1809	1246.29		1269.79	
	1800	1245.97		1269.45	
	1791	1245.66		1269.14	

Retract







MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 5000	Elapsed Time (ETIM) (S)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 10	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 1
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 5000	MRHY 1 Motor Speed (HMS1) (RPM) 0 8000				MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 10
MRPS 1 Quartz Gauge Temperature (BQT1) (DEGF) 100 150					
MRPS 1 Flowline Fluid Resistivity (BFR1) (OHMM) 0 1					
MRPS 1 Resistivity Cell Temperature					

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MRPS_1	Single Probe Module (MRPS) 1	
QGCA	Quartz Gauge Pressure Correction Applied	DYCO 0
QGDA	Quartz Gauge Deviation Angle	DEG 1
QGFD	Quartz Gauge Flow Line Density	G/C3
MRPC	Power Cartridge	
PDCO	Probe Depth Correction Offset	0 M

Format: MRPS_1_SGQG_Station Vertical Scale: 1" per 60S Graphics File Created: 29-Jun-2006 10:40

OP System Version: 14C0-302

MCM

MRPS_1	14C0-302	MRHY_1	14C0-302
MRPC	14C0-302	SGT-L	14C0-302
TCC-BF	14C0-302		

Output DLIS Files

DEFAULT MDT_044LTP FN:43 PRODUCER 29-Jun-2006 10:40



PRETEST@1668.3 M

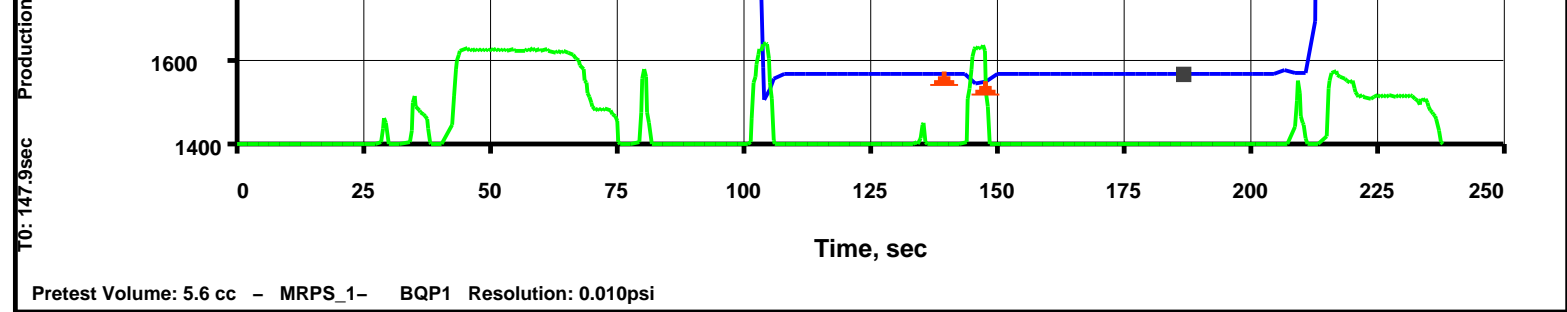
MAXIS Field Log

File 45 Depth, M: 1668.28

Volumetric Pretest - Large-Diameter probe

Mud Pressure before test, PSIA: 2868.82
 Mud Pressure after test, PSIA: 2858.71
 Last build-up pressure, PSIA: 1567.39
 Draw-down mobility, md/cp: 167





Company: _____ Well: _____

Output DLIS Files

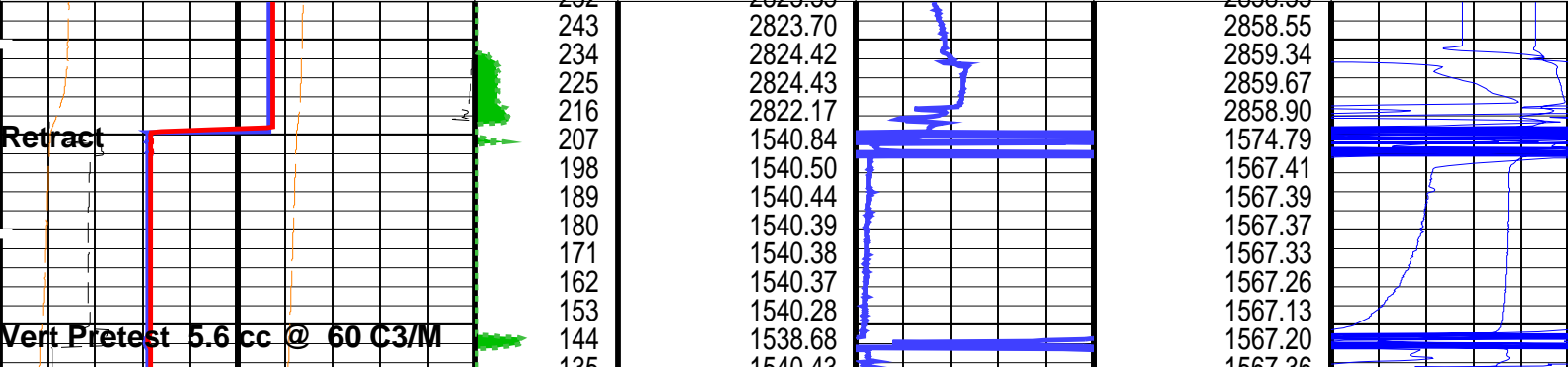
DEFAULT MDT_045LTP FN:44 PRODUCER 29-Jun-2006 11:32 1668.3 M 0.6 M

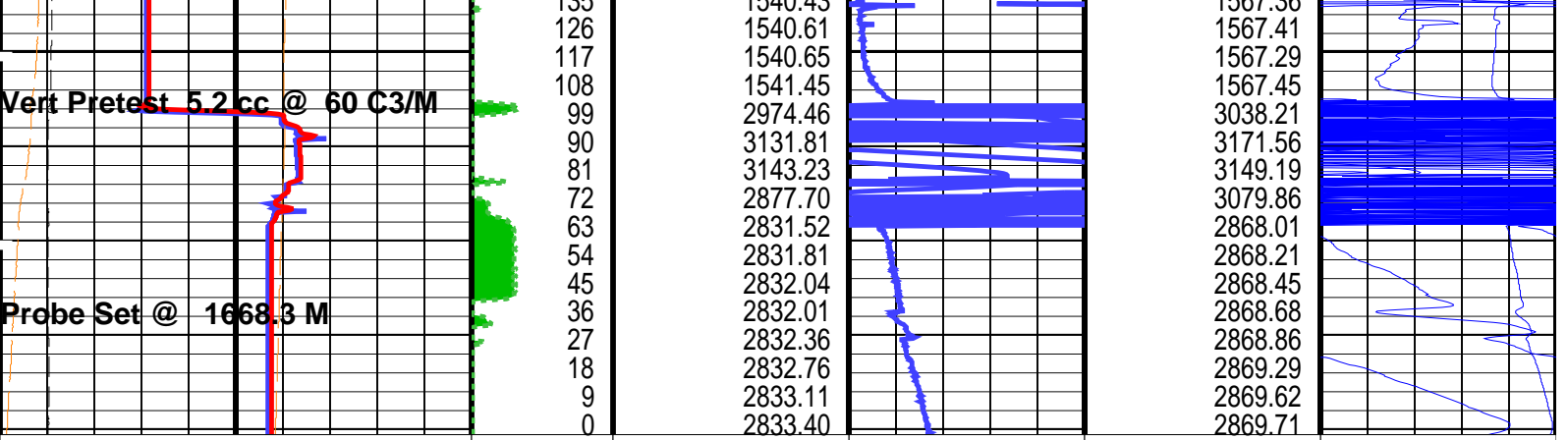
Elapsed Time (s)	Event Summary
211.2	Retract Single Probe Module (MRPS) 1
139.8	Vert Pretest 5.6 cc @ 60 C3/M Single Probe Module (MRPS) 1
97.2	Vert Pretest 5.2 cc @ 60 C3/M Single Probe Module (MRPS) 1
38.7	Probe Set @ 1668.3 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S

MRPS 1 Resistivity Cell Temperature (B1TR) (DEGF)	100	150
MRPS 1 Flowline Fluid Resistivity (BFR1) (OHMM)	0	1
MRPS 1 Quartz Gauge Temperature (BQT1) (DEGF)	100	150
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	0	5000
MRHY 1 Motor Speed (HMS1) (RPM)	0	8000
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	0	10
MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	0	5000
MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	0	10
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	0	1





MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 5000	Elapsed Time (ETIM) (S)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 10	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 1
MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 5000			MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 10		
MRPS 1 Quartz Gauge Temperature (BQT1) 100 (DEGF) 150	MRHY 1 Motor Speed (HMS1) (RPM) 0 8000				
MRPS 1 Flowline Fluid Resistivity (BFR1) (OHMM) 0 1					
MRPS 1 Resistivity Cell Temperature (B1TR) (DEGF) 100 150					

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MRPS_1	MRPS_1: Single Probe Module (MRPS) 1	
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
MRPC	MRPC: Power Cartridge	
PDCO	Probe Depth Correction Offset	0 M

Format: MRPS_1_SGQG_Station Vertical Scale: 1" per 60S Graphics File Created: 29-Jun-2006 11:32

OP System Version: 14C0-302
MCM

MRPS_1	14C0-302	MRHY_1	14C0-302
MRPC	14C0-302	SGT-L	14C0-302
TCC-BF	14C0-302		

Output DLIS Files

DEFAULT MDT_045LTP FN:44 PRODUCER 29-Jun-2006 11:32



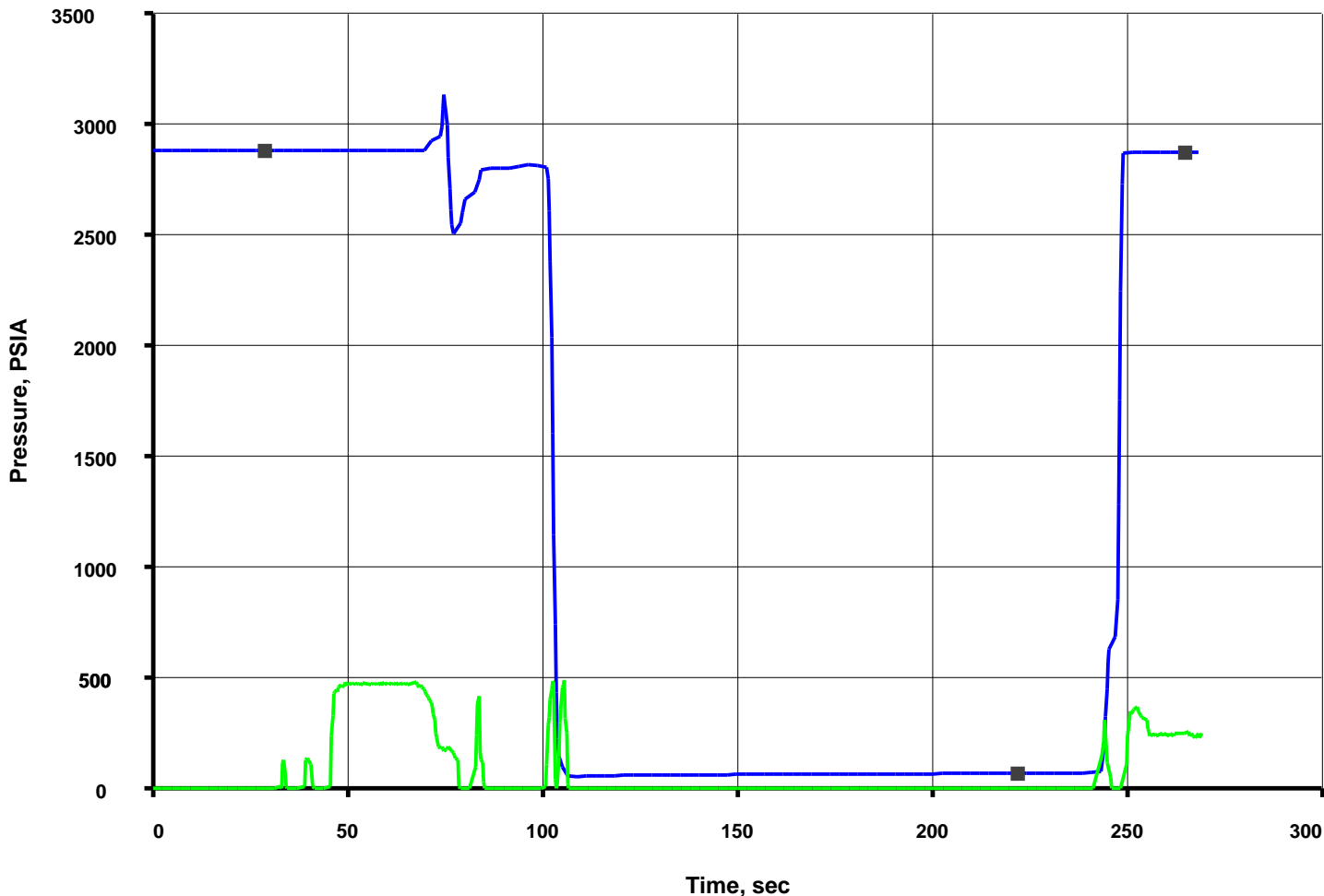
PRETEST@1738.3 M

File 47

Depth, M: 1738.32

Dry Test - Large-Diameter probe

Mud Pressure before test, PSIA: 2882.21
 Mud Pressure after test, PSIA: 2873.56
 Last build-up pressure, PSIA: 69.14



Pretest Volume: 5.5 cc - MRPS_1- BQP1 Resolution: 0.010psi

Company: _____ Well: _____

Output DLIS Files

DEFAULT MDT_047LTP FN:46 PRODUCER 29-Jun-2006 12:10

Elapsed Time (s)	Event Summary
246.0	Retract Single Probe Module (MRPS) 1
96.9	Vert Pretest 5.5 cc @ 60 C3/M Single Probe Module (MRPS) 1
42.0	Probe Set @ 1738.3 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S

MRPS 1 Resistivity Cell Temperature (R1TR)

100 (DEGF) 150

MRPS 1 Flowline Fluid Resistivity (BFR1) (OHMM) 0 1

MRPS 1 Quartz Gauge Temperature (BQT1) (DEGF) 100 150

MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 5000

MRHY 1 Motor Speed (HMS1) (RPM) 0 8000

MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 10

MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 5000

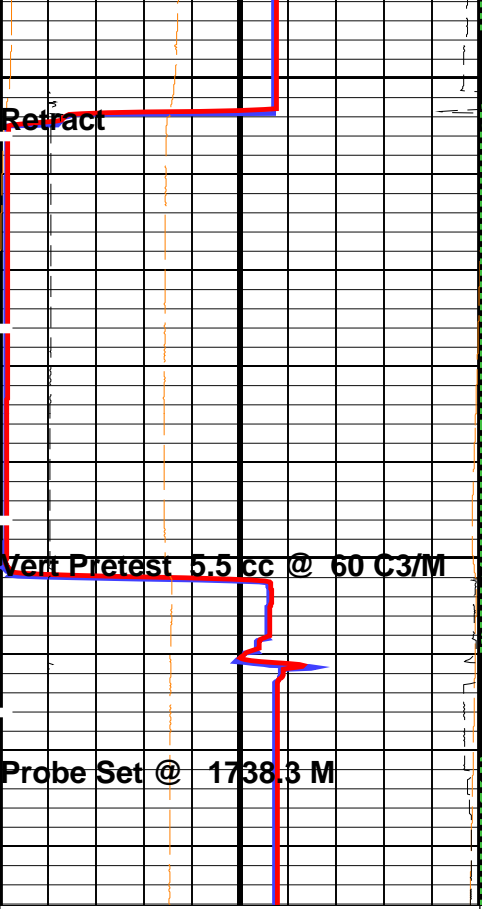
Elapsed Time (ETIM) (S)

MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)

MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 10

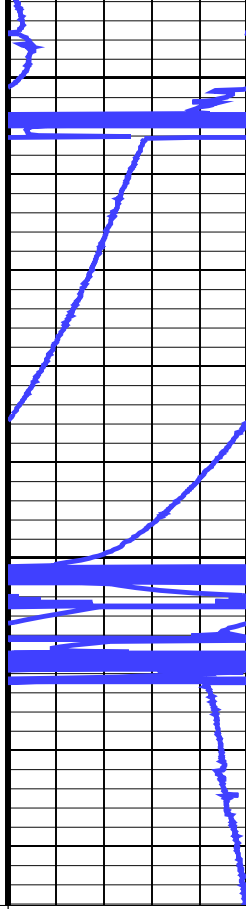
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)

MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 1

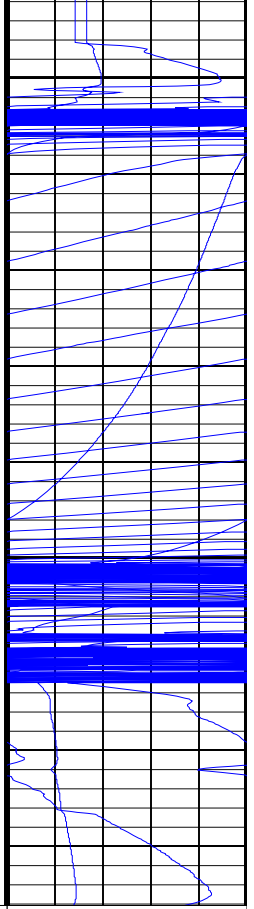


279
270
261
252
243
234
225
216
207
198
189
180
171
162
153
144
135
126
117
108
99
90
81
72
63
54
45
36
27
18
9
0

2840.47
2840.85
2840.72
2838.68
60.84
55.30
54.83
54.31
53.85
53.41
52.89
52.28
51.62
50.92
50.13
49.20
48.12
46.98
45.58
43.08
2785.64
2771.25
2662.35
2906.95
2848.52
2848.66
2848.85
2849.00
2849.28
2849.49
2849.72
2849.83



2873.28
2873.28
2873.82
2872.82
79.48
69.86
69.23
68.78
68.29
67.80
67.27
66.64
66.01
65.31
64.49
63.54
62.44
61.07
59.02
54.79
2814.60
2802.80
2693.30
2935.81
2881.75
2881.93
2882.05
2882.12
2882.40
2882.61
2882.77
2882.74



MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 5000

Elapsed Time (ETIM) (S)

MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)

MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 10

MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)

MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 1

MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 5000

MRHY 1 Motor Speed (HMS1) (RPM) 0 8000

MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 10

MRPS 1 Quartz Gauge Temperature (BQT1) (DEGF) 100 150

MRPS 1 Flowline Fluid Resistivity (BFR1) (OHMM) 0 1

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MRPS_1	Single Probe Module (MRPS) 1	
QGCA	Quartz Gauge Pressure Correction Applied	DYCO 0 DEG
QGDA	Quartz Gauge Deviation Angle	1 G/C3
QGFD	Quartz Gauge Flow Line Density	
MRPC	Power Cartridge	
PDCO	Probe Depth Correction Offset	0 M

Format: MRPS_1_SGQG_Station Vertical Scale: 1" per 60S Graphics File Created: 29-Jun-2006 12:10

OP System Version: 14C0-302
MCM

MRPS_1	14C0-302	MRHY_1	14C0-302
MRPC	14C0-302	SGT-L	14C0-302
TCC-BF	14C0-302		

Output DLIS Files

DEFAULT MDT_047LTP FN:46 PRODUCER 29-Jun-2006 12:10



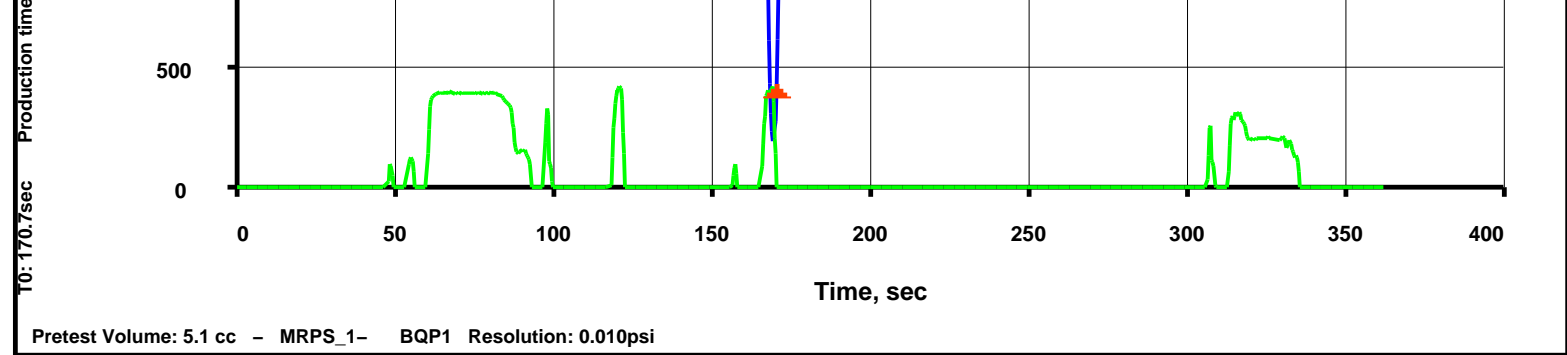
PRETEST@1742.5 M

MAXIS Field Log

File 48 Depth, M: 1742.46 Volumetric Pretest - Large-Diameter probe

Mud Pressure before test, PSIA: 2871.06
Mud Pressure after test, PSIA: 2858.36
Last build-up pressure, PSIA: 1602.04
Draw-down mobility, md/cp: 2.4





Company: _____ Well: _____

Output DLIS Files

DEFAULT MDT_048LTP FN:47 PRODUCER 29-Jun-2006 12:17 1742.5 M 1.0 M

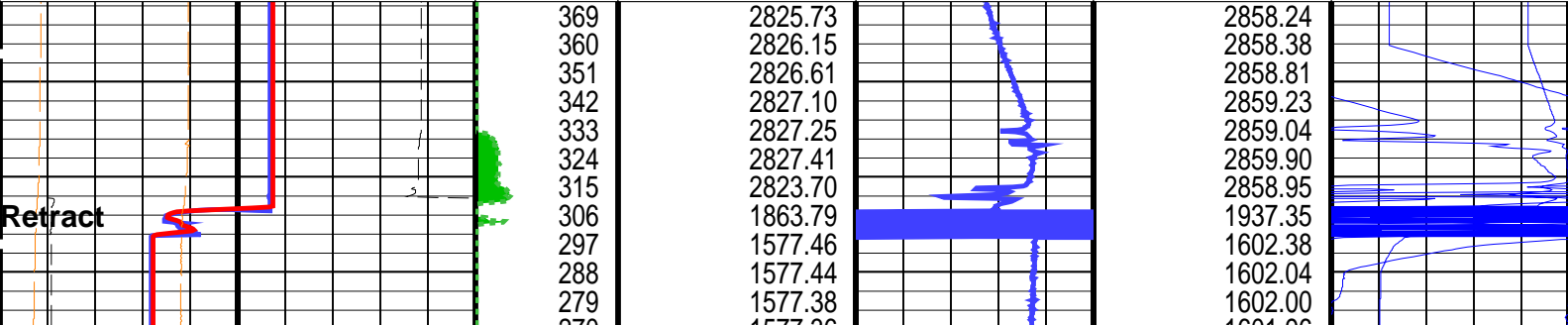
Elapsed Time (s)	Event Summary
309.3	Retract Single Probe Module (MRPS) 1
161.7	Vert Pretest 5.1 cc @ 60 C3/M Single Probe Module (MRPS) 1
114.0	Vert Pretest 5.3 cc @ 60 C3/M Single Probe Module (MRPS) 1
56.7	Probe Set @ 1742.5 M Single Probe Module (MRPS) 1

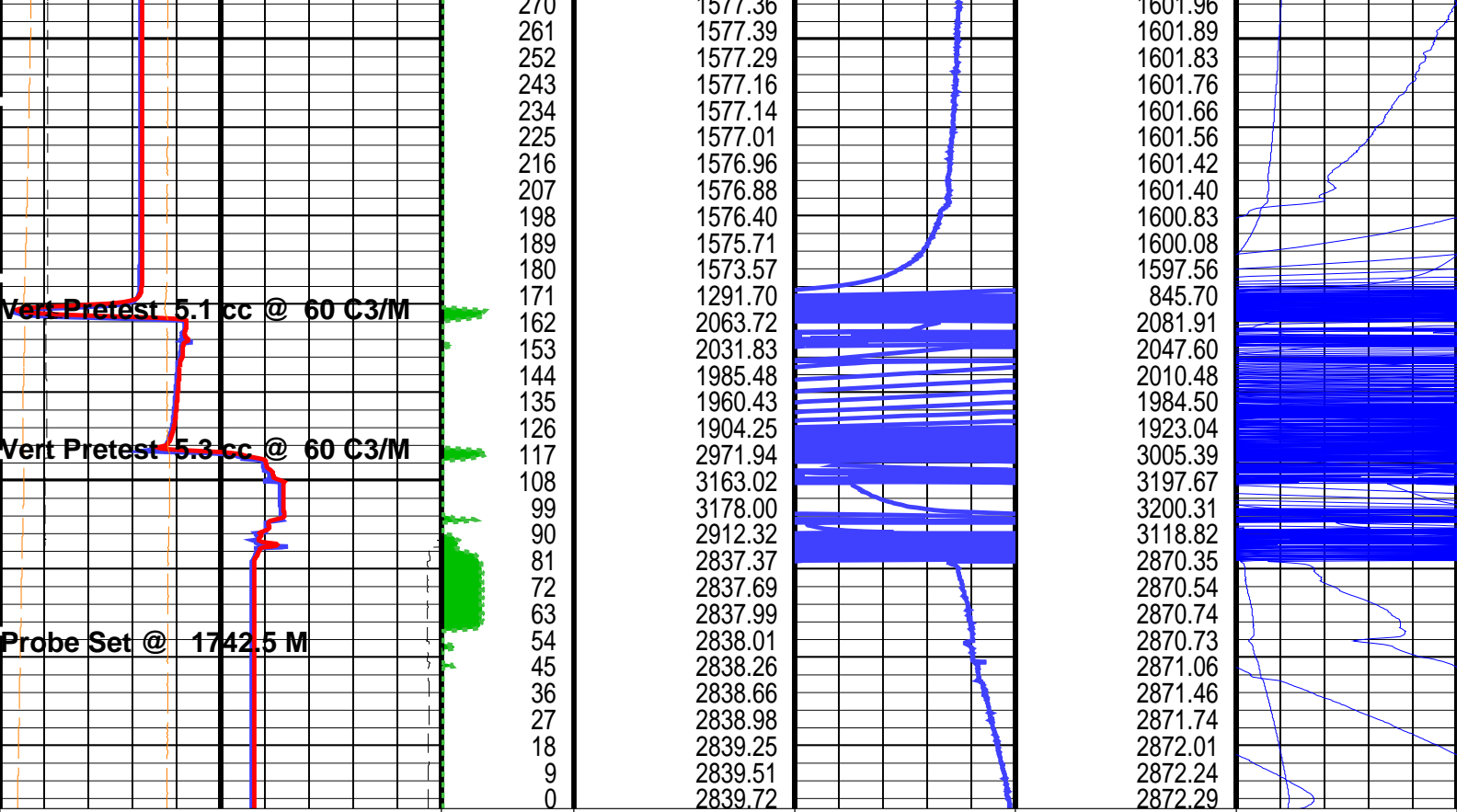
PIP SUMMARY

Time Mark Every 60 S

MRPS 1 Resistivity Cell Temperature (B1TR) (DEGF)	100	150
MRPS 1 Flowline Fluid Resistivity (BFR1) (OHMM)	0	1
MRPS 1 Quartz Gauge Temperature (BQT1) (DEGF)	100	150
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	0	5000
MRHY 1 Motor Speed (HMS1) (RPM)	0	8000
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	0	10

MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	Elapsed Time (ETIM) (S)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)
0			0	10	0





MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 5000	Elapsed Time (ETIM) (S)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 10	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 1
MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 5000		MRHY 1 Motor Speed (HMS1) (RPM) 0 8000			MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 10
MRPS 1 Quartz Gauge Temperature (BQT1) (DEGF) 100 150					
MRPS 1 Flowline Fluid Resistivity (BFR1) (OHMM) 0 1					
MRPS 1 Resistivity Cell Temperature (B1TR) (DEGF) 100 150					

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MRPS_1: Single Probe Module (MRPS) 1		
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
MRPC: Power Cartridge		
PDCO	Probe Depth Correction Offset	0 M

Format: MRPS_1_SGQG_Station Vertical Scale: 1" per 60S Graphics File Created: 29-Jun-2006 12:17

OP System Version: 14C0-302
MCM

Output DLIS Files

DEFAULT MDT_048LTP FN:47 PRODUCER 29-Jun-2006 12:17



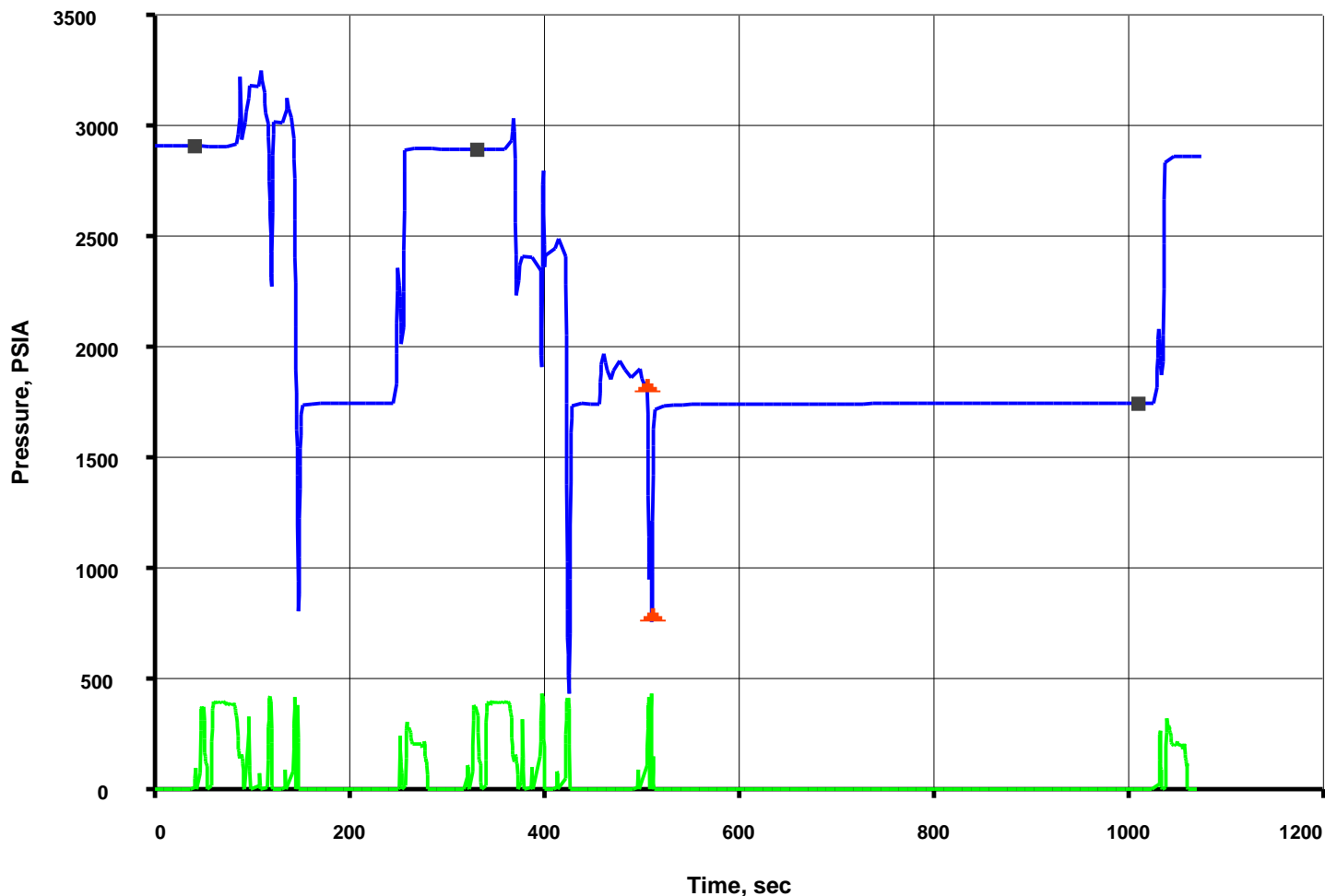
PRETEST@1762.0 M

MAXIS Field Log

File 49 Depth, M: 1763.98

Volumetric Pretest - Large-Diameter probe

Mud Pressure before test, PSIA: 2908.29
Mud Pressure after test, PSIA: 2893.98
Last build-up pressure, PSIA: 1745.21
Draw-down mobility, md/cp: 2.6



Pretest Volume: 5.2 cc - MRPS_1- BQP1 Resolution: 0.010psi

Company: Well:

Output DLIS Files

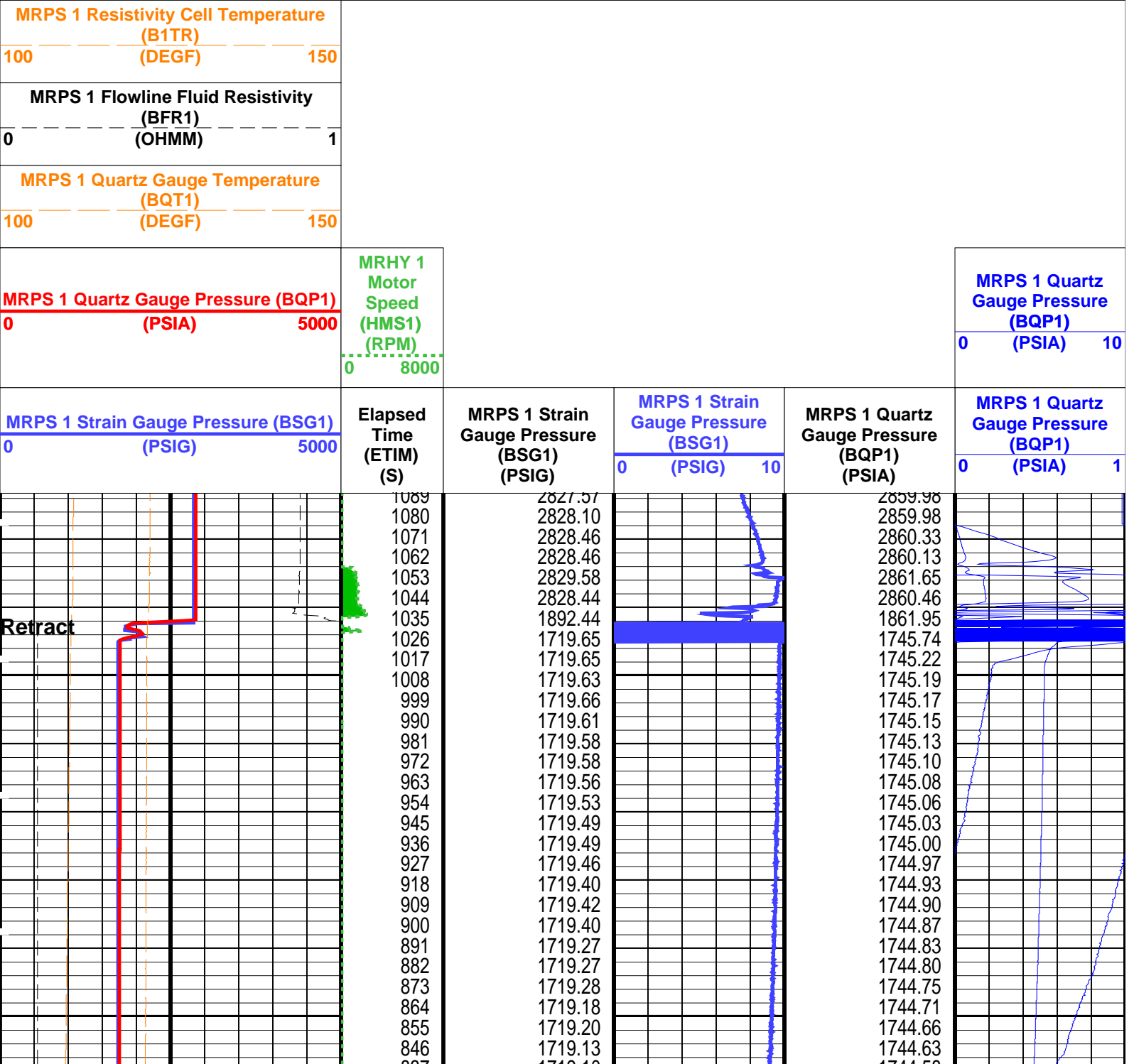
DEFAULT MDT_049LTP FN:48 PRODUCER 29-Jun-2006 12:27

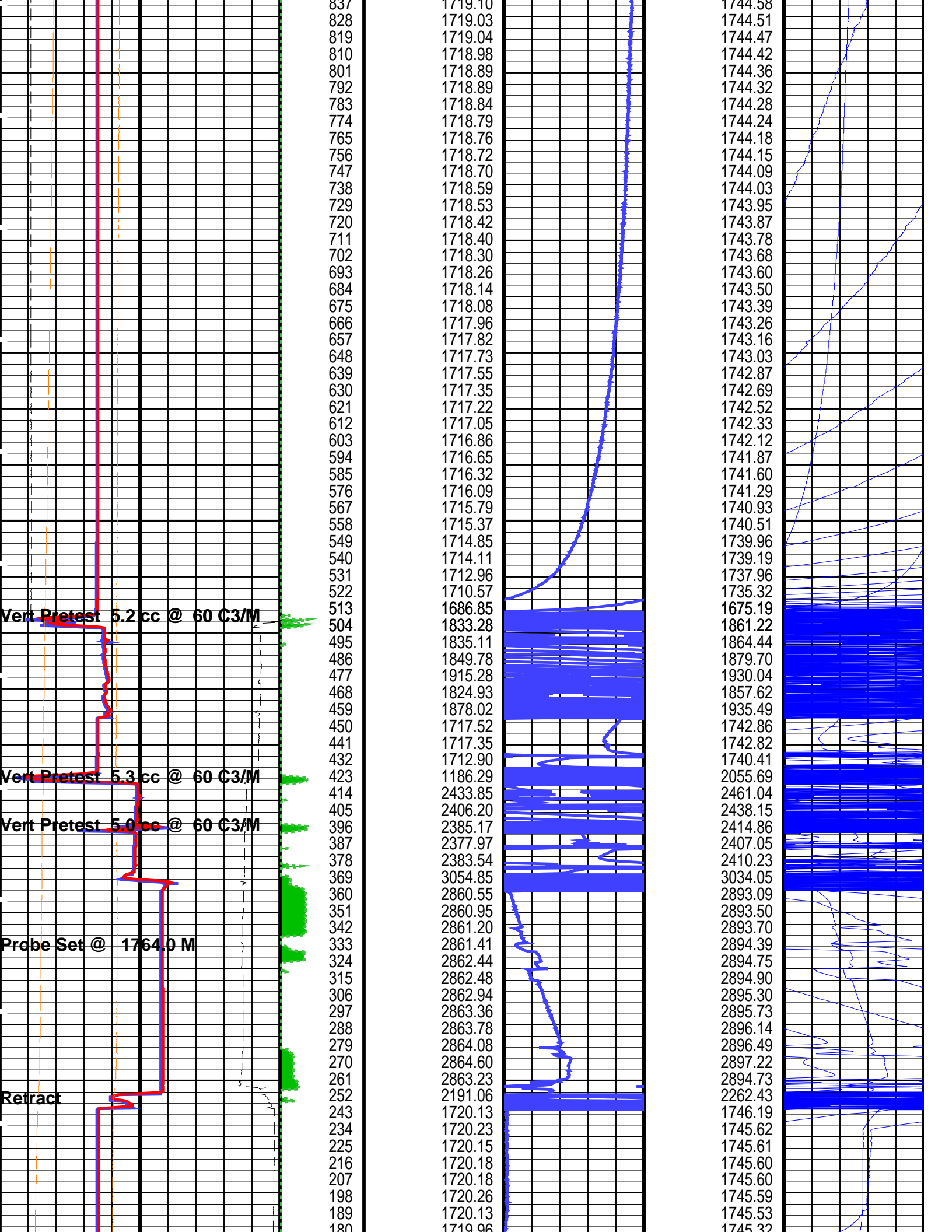
Elapsed

Elapsed Time (s)	Event Summary
1034.7	Retract Single Probe Module (MRPS) 1
501.3	Vert Pretest 5.2 cc @ 60 C3/M Single Probe Module (MRPS) 1
417.6	Vert Pretest 5.3 cc @ 60 C3/M Single Probe Module (MRPS) 1
391.8	Vert Pretest 5.0 cc @ 60 C3/M Single Probe Module (MRPS) 1
336.3	Probe Set @ 1764.0 M Single Probe Module (MRPS) 1
254.1	Retract Single Probe Module (MRPS) 1
138.3	Vert Pretest 5.2 cc @ 60 C3/M Single Probe Module (MRPS) 1
111.9	Vert Pretest 5.7 cc @ 60 C3/M Single Probe Module (MRPS) 1
54.6	Probe Set @ 1764.0 M Single Probe Module (MRPS) 1

PIP SUMMARY

Time Mark Every 60 S





837
828
819
810
801
792
783
774
765
756
747
738
729
720
711
702
693
684
675
666
657
648
639
630
621
612
603
594
585
576
567
558
549
540
531
522
513
504
495
486
477
468
459
450
441
432
423
414
405
396
387
378
369
360
351
342
333
324
315
306
297
288
279
270
261
252
243
234
225
216
207
198
189
180

1719.10
1719.03
1719.04
1718.98
1718.89
1718.89
1718.84
1718.79
1718.76
1718.72
1718.70
1718.59
1718.53
1718.42
1718.40
1718.30
1718.26
1718.14
1718.08
1717.96
1717.82
1717.73
1717.55
1717.35
1717.22
1717.05
1716.86
1716.65
1716.32
1716.09
1715.79
1715.37
1714.85
1714.11
1712.96
1710.57
1686.85
1833.28
1835.11
1849.78
1915.28
1824.93
1878.02
1717.52
1717.35
1712.90
1186.29
2433.85
2406.20
2385.17
2377.97
2383.54
3054.85
2860.55
2860.95
2861.20
2861.41
2862.44
2862.48
2862.94
2863.36
2863.78
2864.08
2864.60
2863.23
2191.06
1720.13
1720.23
1720.15
1720.18
1720.18
1720.26
1720.13
1719.96

1744.58
1744.51
1744.47
1744.42
1744.36
1744.32
1744.28
1744.24
1744.18
1744.15
1744.09
1744.03
1743.95
1743.87
1743.78
1743.68
1743.60
1743.50
1743.39
1743.26
1743.16
1743.03
1742.87
1742.69
1742.52
1742.33
1742.12
1741.87
1741.60
1741.29
1740.93
1740.51
1739.96
1739.19
1737.96
1735.32
1675.19
1861.22
1864.44
1879.70
1930.04
1857.62
1935.49
1742.86
1742.82
1740.41
2055.69
2461.04
2438.15
2414.86
2407.05
2410.23
3034.05
2893.09
2893.50
2893.70
2894.39
2894.75
2894.90
2895.30
2895.73
2896.14
2896.49
2897.22
2894.73
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1745.61
1745.60
1745.60
1745.59
1745.53
1745.32

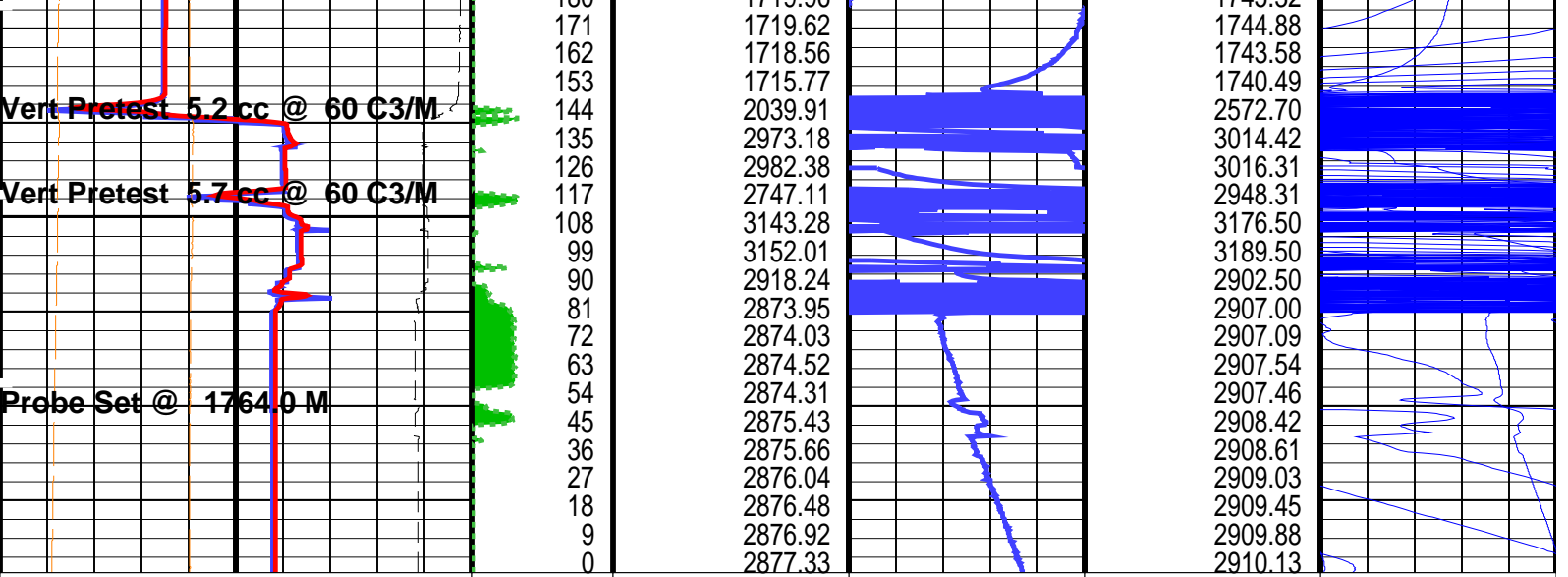
Vert Pretest 5.2 cc @ 60 C3/M

Vert Pretest 5.3 cc @ 60 C3/M

Vert Pretest 5.0 cc @ 60 C3/M

Probe Set @ 1764.0 M

Retract



MRPS 1 Strain Gauge Pressure (BSG1) 0 (PSIG) 5000	Elapsed Time (ETIM) (S) 0 8000	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG)	MRPS 1 Strain Gauge Pressure (BSG1) (PSIG) 0 (PSIG) 10	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA)	MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 (PSIA) 1
MRPS 1 Quartz Gauge Pressure (BQP1) 0 (PSIA) 5000		MRPS 1 Quartz Gauge Pressure (BQP1) (PSIA) 0 (PSIA) 10			
MRPS 1 Quartz Gauge Temperature (BQT1) (DEGF) 100 150					
MRPS 1 Flowline Fluid Resistivity (BFR1) (OHMM) 0 1					
MRPS 1 Resistivity Cell Temperature (B1TR) (DEGF) 100 150					

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
MRPS_1	Single Probe Module (MRPS) 1	
QGCA	Quartz Gauge Pressure Correction Applied	DYCO
QGDA	Quartz Gauge Deviation Angle	0 DEG
QGFD	Quartz Gauge Flow Line Density	1 G/C3
MRPC	Power Cartridge	
PDCO	Probe Depth Correction Offset	0 M

Format: MRPS_1_SGQG_Station Vertical Scale: 1" per 60S Graphics File Created: 29-Jun-2006 12:27

OP System Version: 14C0-302
MCM

MRPS_1	14C0-302	MRHY_1	14C0-302
MRPC	14C0-302	SGT-L	14C0-302
TCC-BF	14C0-302		

Output DLIS Files

DEFAULT MDT_049LTP FN:48 PRODUCER 29-Jun-2006 12:27

Company: _____ Well: _____

Output DLIS Files

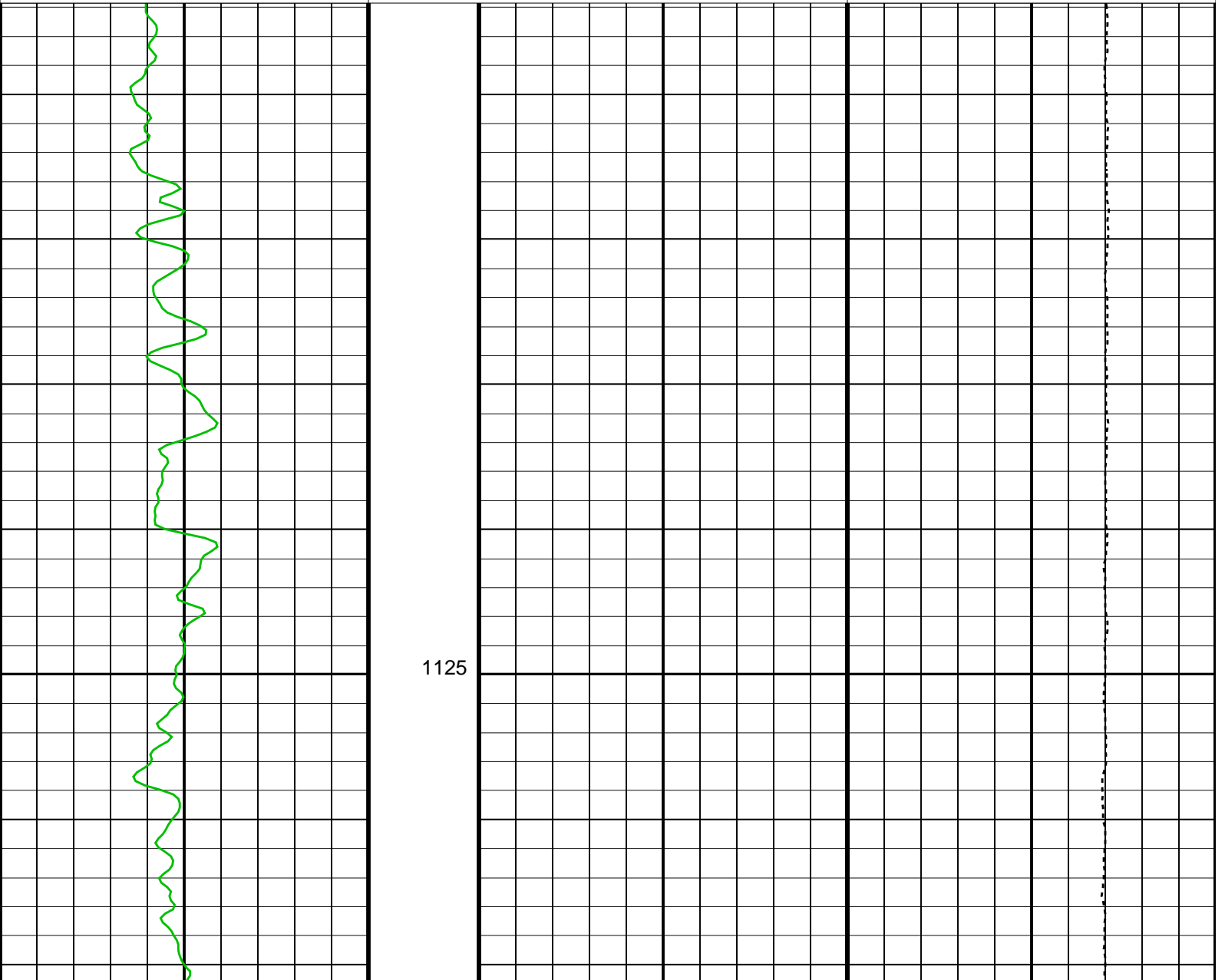
DEFAULT MDT_OFA_031LUP FN:30 PRODUCER 29-Jun-2006 03:35 1153.2 M 1101.9 M

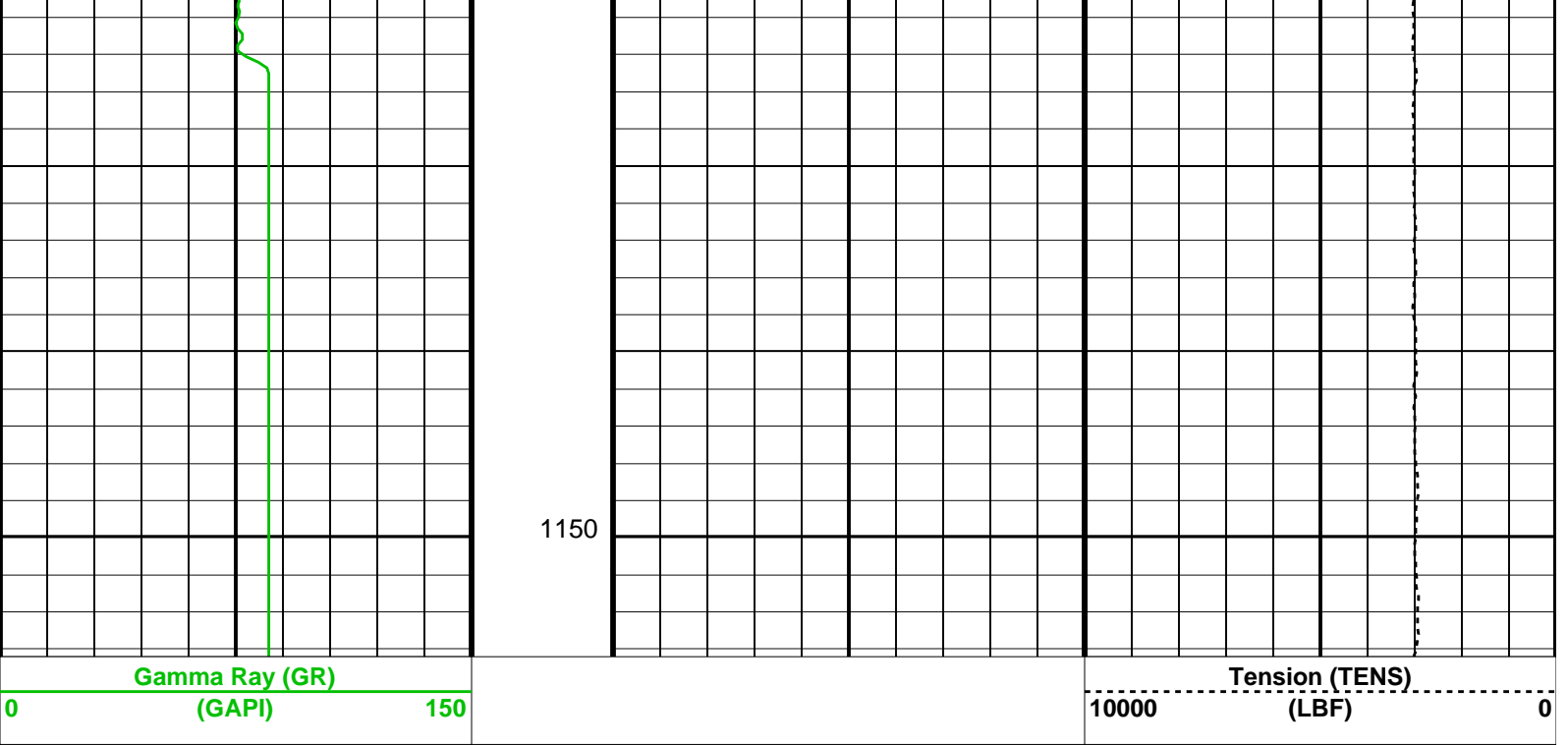
OP System Version: 14C0-302

MCM

MRPS_1	14C0-302	MRHY_1	14C0-302
LFA	14C0-302	MRPO	14C0-302
MRMS_1	14C0-302	MRPC	14C0-302
SGT-L	14C0-302	TCC-BF	14C0-302

<p style="color: green;">Gamma Ray (GR)</p> <p style="color: green;">(GAPI) 150</p>		<p style="text-align: right;">Tension (TENS)</p> <p style="text-align: right;">(LBF) 10000 0</p>
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Parameters		
DLIS Name	Description	Value
PDCO	LFA: Live Fluid Analyzer Probe Depth Correction Offset	0 M
PDCO	MRPC: Power Cartridge Probe Depth Correction Offset	0 M

Format: CORRELATION Vertical Scale: 1:200 Graphics File Created: 29-Jun-2006 03:35

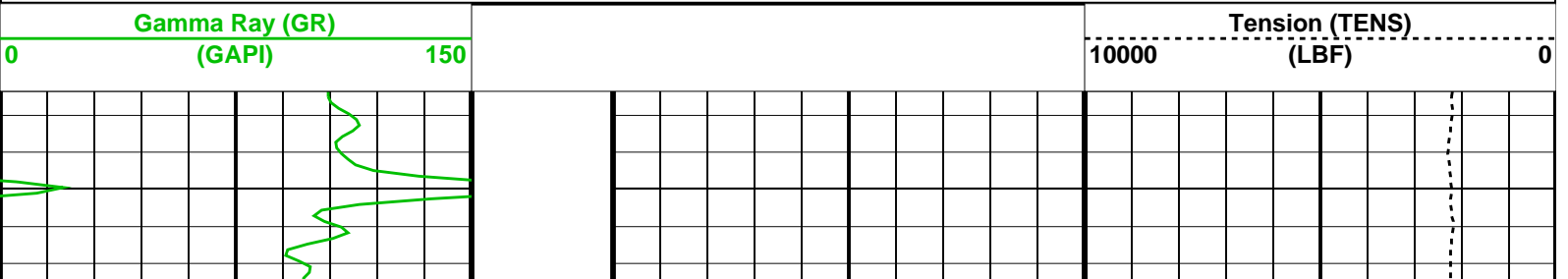
OP System Version: 14C0-302			
MCM			
MRPS_1	14C0-302	MRHY_1	14C0-302
LFA	14C0-302	MRPO	14C0-302
MRMS_1	14C0-302	MRPC	14C0-302
SGT-L	14C0-302	TCC-BF	14C0-302

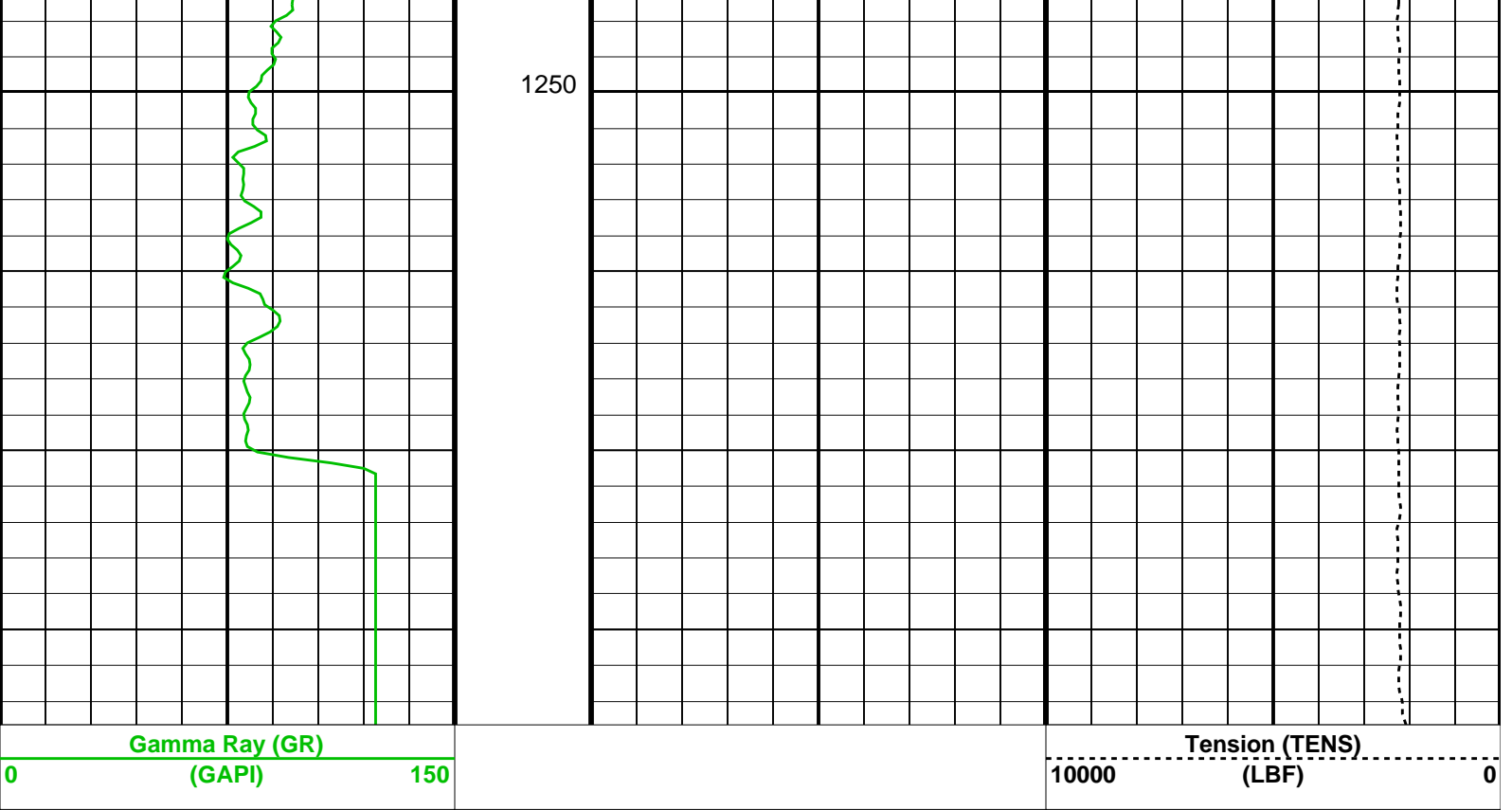
Output DLIS Files			
DEFAULT	MDT_OFA_031LUP	FN:30	PRODUCER 29-Jun-2006 03:35

Company: _____ Well: _____

Output DLIS Files					
DEFAULT	MDT_042LUP	FN:41	PRODUCER	29-Jun-2006 10:32	1267.7 M 1242.4 M

OP System Version: 14C0-302			
MCM			
MRPS_1	14C0-302	MRHY_1	14C0-302
MRPC	14C0-302	SGT-L	14C0-302
TCC-BF	14C0-302		





Parameters		
DLIS Name	Description	Value
MRPC	MRPC: Power Cartridge	
PDCO	Probe Depth Correction Offset	0 M

Format: CORRELATION Vertical Scale: 1:200 Graphics File Created: 29-Jun-2006 10:32

OP System Version: 14C0-302			
MCM			
MRPS_1	14C0-302	MRHY_1	14C0-302
MRPC	14C0-302	SGT-L	14C0-302
TCC-BF	14C0-302		

Output DLIS Files			
DEFAULT	MDT_042LUP	FN:41	PRODUCER 29-Jun-2006 10:32



CALIBRACION

MAXIS Field Log

MASTER CALIBRATION SUMMARY: Quartz Gauge (Single Probe Module 1)
 Calibration Pressure Unit: PSIA
 Calibration Temperature Unit: DEGC

Sensor Comment: :
 Sensor Serial Number: 0190
 Sensor Calibration Date (DDMMYY): 120202
 Pressure Model: P=F(Fc,Fb)
 Pressure Matrix: 66
 Pressure CRC: C6C8
 Temperature Model: T=F(Fb,Fc)
 Temperature Matrix: 66
 Temperature CRC: 7262
 Clock Comment: :
 Clock Serial Number: 620
 Clock Calibration Date (DDMMYY): 170102
 Clock Model: Fclk=F(Fb'-Fc')
 Clock Matrix: 16
 Clock CRC: FA79
 Fc Offset: +.514400000000E+07 Hz
 Fb Offset: +.558800000000E+07 Hz
 R Offset: +.470000000000E+06 Hz

Pressure Coefficients

	Fb**0	Fb**1	Fb**2	Fb**3
Fc**0	+.571239452275E+0	-.181372313898E-0	-.118943880868E-0	-.986455100182E-1
Fc**1	-.107049306737E+0	-.128880131495E-0	-.911384689621E-1	+.484107088151E-1
Fc**2	+.112882605008E-0	+.498457703730E-1	+.902361683627E-1	0.0
Fc**3	+.258973918781E-1	0.0	0.0	0.0
Fc**4	0.0	0.0	0.0	0.0
Fc**5	0.0	0.0	0.0	0.0

	Fb**4	Fb**5
Fc**0	-.178003595327E-1	-.223534445461E-1
Fc**1	+.251413399109E-1	0.0
Fc**2	0.0	0.0
Fc**3	0.0	0.0
Fc**4	0.0	0.0
Fc**5	0.0	0.0

Temperature Coefficients

	Fc**0	Fc**1	Fc**2	Fc**3
Fb**0	+.942734590474E+0	-.234883671014E-0	+.668003692343E-0	+.163439577304E-1
Fb**1	-.620357278758E-0	+.206380305088E-0	+.171407223844E-1	0.0
Fb**2	-.344220341729E-0	+.420788225560E-1	+.220232791758E-1	0.0
Fb**3	-.319874149203E-1	+.103696594514E-1	0.0	0.0
Fb**4	-.228340967657E-1	+.238779228963E-2	0.0	0.0
Fb**5	+.381757283573E-2	0.0	0.0	0.0

	Fc**4	Fc**5
Fb**0	0.0	0.0

Fb**1	0.0	0.0
Fb**2	0.0	0.0
Fb**3	0.0	0.0
Fb**4	0.0	0.0
Fb**5	0.0	0.0

Clock Coefficients

F'b/F'c**0	+ .517533948463E+0'
F'b/F'c**1	+ .646960296962E-0'
F'b/F'c**2	+ .607338552283E-0'
F'b/F'c**3	- .665323443386E-1'
F'b/F'c**4	- .492821797923E-1'
F'b/F'c**5	+ .493863972092E-2'

COMPANIA: YPF S.A. POZO: YPF.Ch.EA-695 CAMPO: EL ALBA PROVINCIA: CHUBUT PAIS: ARGENTINA	PRIMERA LECTURA	1764 m
	PROFUNDIDAD PERFIL	1801.3 m
	PROF. PERFORADOR	1800 m
	BUJE DE VASTAGO	666.45 m
	MESA ROTATIVA	666.15 m
	NIVEL TERRENO	661.9 m

PROBADOR DE PRESIONES

ESCALA: 1/200





PROGRAMA de TERMINACION
Pozo: EA- 695

UE CH-CS
MANANTIALES BEHR

FECHA: 05-jul-06

- A. Montar equipo PI- XXX. Armar BOP.
- B. Calibrar pozo hasta válvula en 1789,48 mbbp.
- C. **Si buena aislación** punzar con cañón de 4" 4TPP las siguientes zonas:
(Ver CBL-VDL)

		Profundidad induccion		Ensayo	Prof Neutron	Carga
CIV	1	1760,5/ 1762	2,5	Individual		32gr, 0°-180°
CIV	2	1741,5/ 1743	1,5	Individual		32gr, 0°-90°
CIII	3	1539,5/ 1542	1,5	Individual		32gr, 0°-90°
C III	4	1510,5/ 1512	1,5	Individual		32gr, 0°-90°
C III	5	1293/ 1295,5	2,5	Individual		32gr, 0°-90°
C III	6	1180/ 1181,5	1,5	Individual		32gr, 0°-90°
C III	7	1138/1139,5	1,5	Individual		32gr, 0°-90°
C III	8	1105,5/ 1107	1,5	Individual		32gr, 0°-90°
		TOTAL:	14	m		

C. Ensayar las zonas punzadas desde fondo a superficie.

En las capas 1, 2, 3,4,5 y 8 probar admisión previo ensayo.

De las capas con aporte de fluido tomar muestras para su análisis; en caso de ser gas medir presiones y tomar muestra.

- D. De acuerdo al resultado se indicará el programa a seguir
Prever Fractura

Diseño de Csg : 5 1/2"

Caños Marca:

Collar Diferencial: 1789,48m

Zapato: 1797,83 m

Fondo: 1801,3m

Preparado por:

Biocca



PROGRAMA de TERMINACION
Pozo: EA

UE CH-CS
MANANTIALES BEHR

FECHA: /2006

Punzar con cañón de 4" 4TPP las siguientes zonas:

Profundidad
inducción

Ensayo

Prof Neutron

Carga

Diseño de Csg : 5 1/2"

Caños Marca:

Collar Diferencial: m

Zapato: m

Fondo: m

Preparado por:

COMPANIA: YPF S.A.

POZO: YPF.Ch.EA-695

CAMPO: EL ALBA

PROVINCIA: CHUBUT

PAIS: ARGENTINA

QUICKLOOK

ESCALA: 1/200

Campo: EL ALBA
 Locacion: CAS
 Pozo: YPF.Ch.EA-695
 Compania: YPF S.A.

LOCACION		Elev.:	
AIT-LDL-CNL-CAL MDT	Ref. Permanente:	NIVEL DEL TERRENO	B. V. 666.45 m
	Reg. Medido Desde:	NIVEL DEL TERRENO	N. T. 661.9 m
	Perforacion Medida Desde:	NIVEL DEL TERRENO	M. R. 666.15 m
UWI: AR0100006830	Equipo PI-245	Longitud X: 4.949,913,10	Latitud Y: 2.584,937,96

Fecha	28-Jun-2006		
Corrida No.	1		
Prof. Perforador	1800 m		
Prof. Registro	1801.3 m		
Primera Lectura	1798.9 m		
Ultima Lectura	349.7 m		
Fondo Tuberia Perforador	9.625 in @ 350.44 m		
Fondo Tuberia Registro	349.7 m		
Diametro Trepano	8.750 in		
Tipo De Lodo	PHPA		
Densidad	1.17 g/cm3	55 s	
Perdidas	6.5 cm3	8.5	
Fuente Muestra De Lodo	PILETA		
RM @ Temp.	4.690 ohm.m	@	7 degC
RMF @ Temp.	3.880 ohm.m	@	7 degC
RM @ Temp.	6.700 ohm.m	@	7 degC
Fuente: RMF	RMC	PRENSA	PRENSA
RM @ T. Fdo.	1.472 @ 70	1.227 @ 70	@ @
Temp. Maxima Medida	70 degC		
Circulacion Final	28-Jun-2006	12:15	
Registro Fondo	28-Jun-2006	23:00	
Unidad No.	8116	ARCS	
Registrado por:	A. AMID / D. ICHAZU		
estigco	ANIBAL SILVEIRA		

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

DEPTH SUMMARY LISTING

Date Created: 30-JUN-2006 10:19:37

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-B	Type: CMTD-B/A	Type: 7-46P
Serial Number: 4858	Serial Number: 1689	Serial Number: 77353
Calibration Date: 12-Nov-2004	Calibration Date: 14-Feb-2006	Length: 3000.15 M
Calibrator Serial Number: 31	Calibrator Serial Number: 1028	Conveyance Method: Wireline
Calibration Cable Type: 7-46P	Calibration Gain: 1.28	Rig Type: LAND
Wheel Correction 1: -4	Calibration Offset: 41.00	
Wheel Correction 2: -4		

Depth Control Parameters

Log Sequence: First Log In the Well
Rig Up Length At Surface: 71.00 M
Rig Up Length At Bottom: 71.00 M
Rig Up Length Correction: 0.00 M
Stretch Correction: 2.10 M
Tool Zero Check At Surface: 0.00 M

Depth Control Remarks

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

LIMITACION DE RESPONSABILIDAD

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

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

OBSERVACIONES: CORRIDA # 1	OBSERVACIONES: CORRIDA # 2
1. Primera carrera en el pozo y perfil de referencia de profundidad.	
2. Esquema del pozo segun datos del perforador.	
3. Herramienta corrida segun diagrama.	
4. AITH corrida descentralizada utilizando standoffs de 1,5".	
5. Maxima desviacion del pozo segun datos del perforador = 1 deg	
6. Maxima temperatura registrada 70 degC, tomada con termometro en punta de herramienta.	
7. Datos adicionales del lodo: Cl = 350 ppm. Ca = 80 ppm.	
8. Ultima circulacion termino el dia 28-Jun-06 a las 12:15 hs y duro 1 hora.	

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

10. LDL y CNL corridos hasta 900 m a pedido del cliente.

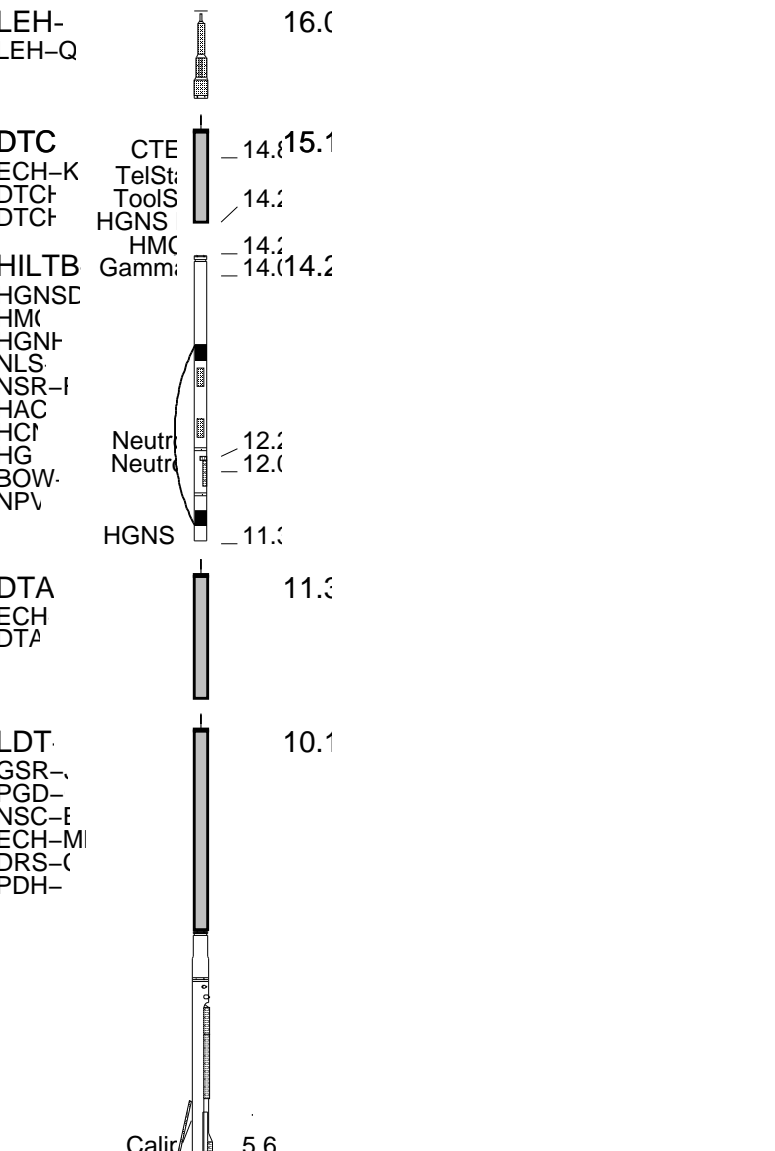
CORRIDA #1			CORRIDA #2		
ORDEN DE SERVICIO:			ORDEN DE SERVICIO:		
VERSION DEL PROGRAMA:			VERSION DEL PROGRAMA:		
NIVEL DEL LODO:			NIVEL DEL LODO:		
INTERVALO REGISTRADO	COMIENZO	FINAL	INTERVALO REGISTRADO	COMIENZO	FINAL

DESCRIPCION DEL EQUIPO

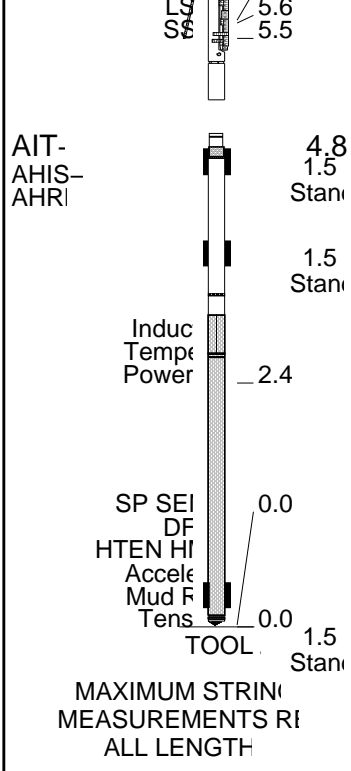
CORRIDA # 1 CORRIDA # 2

SURFACE I
 WITM (
 GSR-
 NCT
 CNB-
 NCS

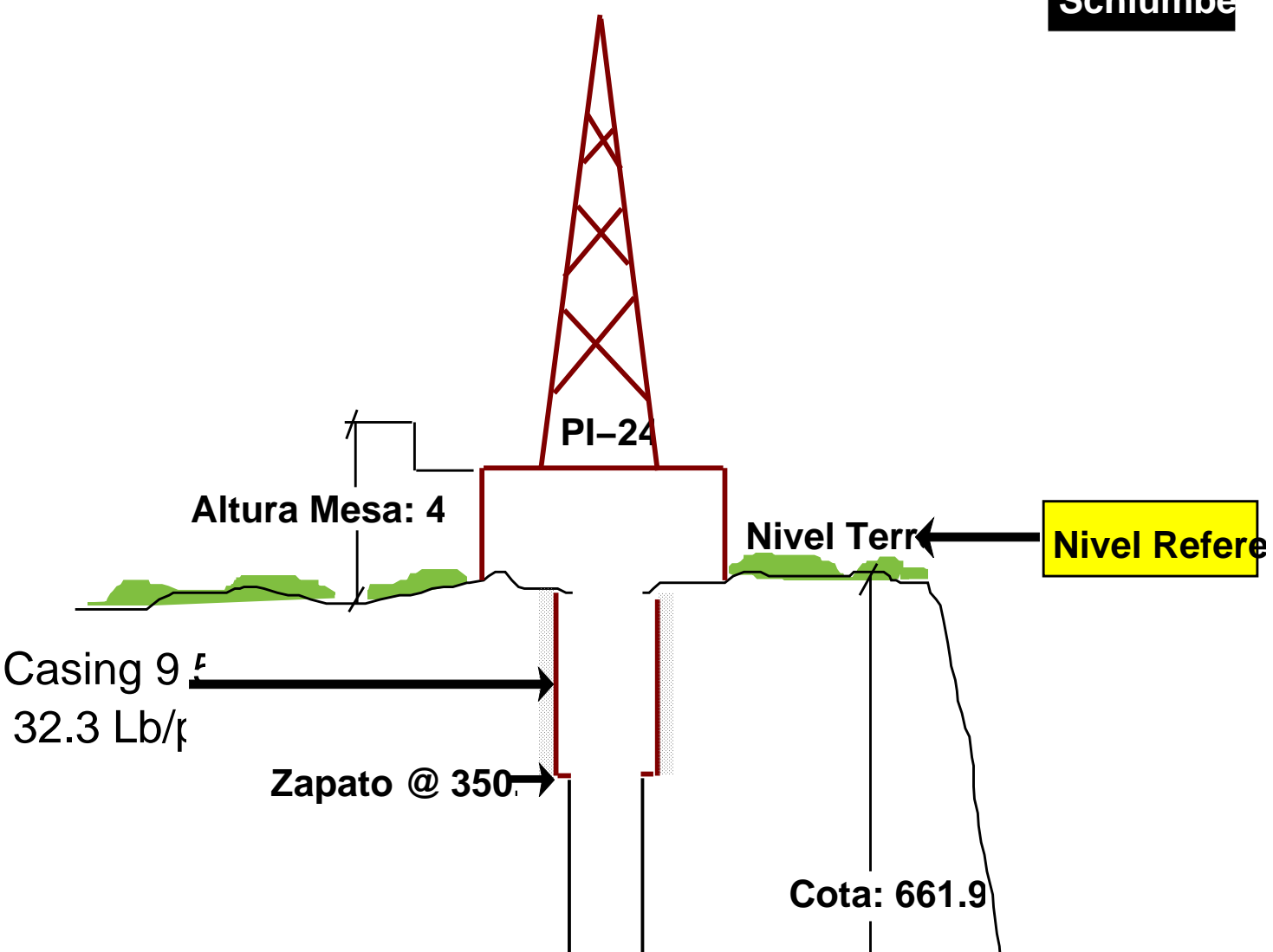
DOWNHOLE



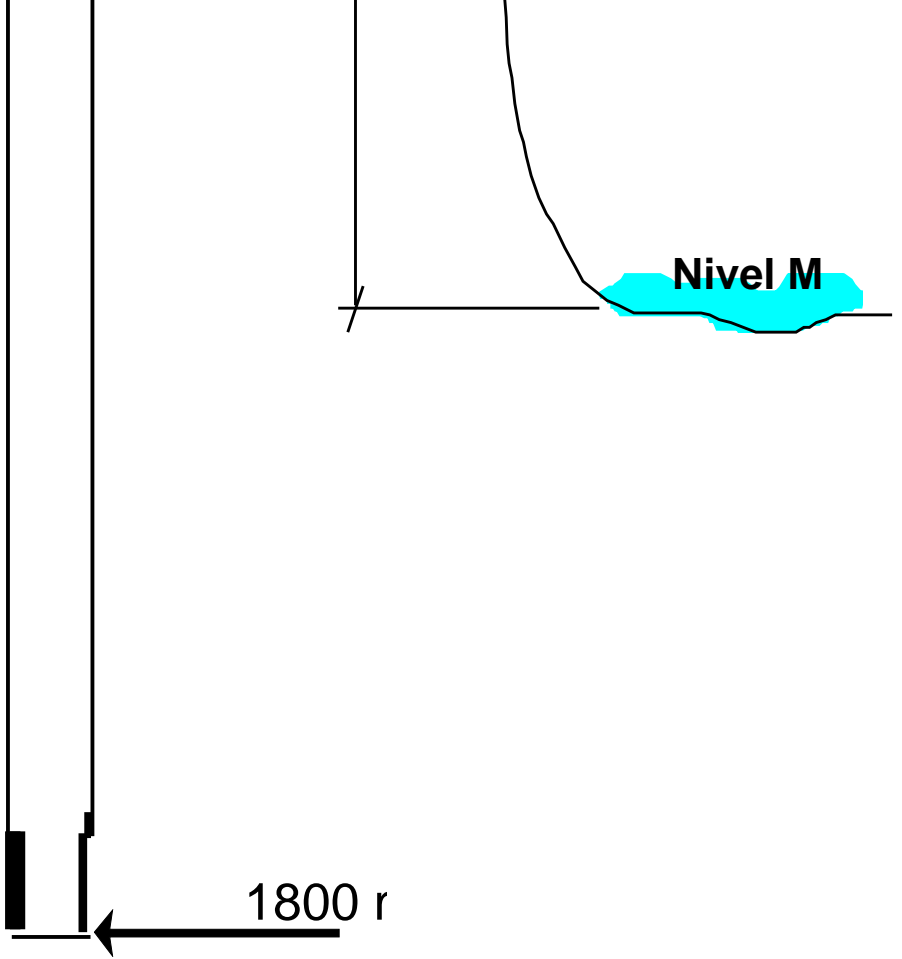
Empty space reserved for equipment description for Run #2.



YPF.Ch.EA



Trepano
8 3/4" @



TRAMO PRINCIPAL

MAXIS Field Log

Input DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_025LUP	FN:24	PRODUCER	30-Jun-2006 08:23	1806.9 M	291.0 M
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Output DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_089PUP	FN:42	PRODUCER	30-Jun-2006 18:52	1807.0 M	345.0 M
CUST1	AIT_LDL_TLD_MCFL_089PUC	FN:43	CUSTOMER	30-Jun-2006 18:52	1807.0 M	345.0 M
CUST2	AIT_LDL_TLD_MCFL_089PUC	FN:44	CUSTOMER	30-Jun-2006 18:52	1807.0 M	345.0 M

OP System Version: 14C0-302
MCM

AIT-H	14C0-302	LDT-D	14C0-302
DTA-A	14C0-302	HILTB-FTB	14C0-302
DTC-H	14C0-302		

Changed Parameter Summary

DLIS Name

New Value

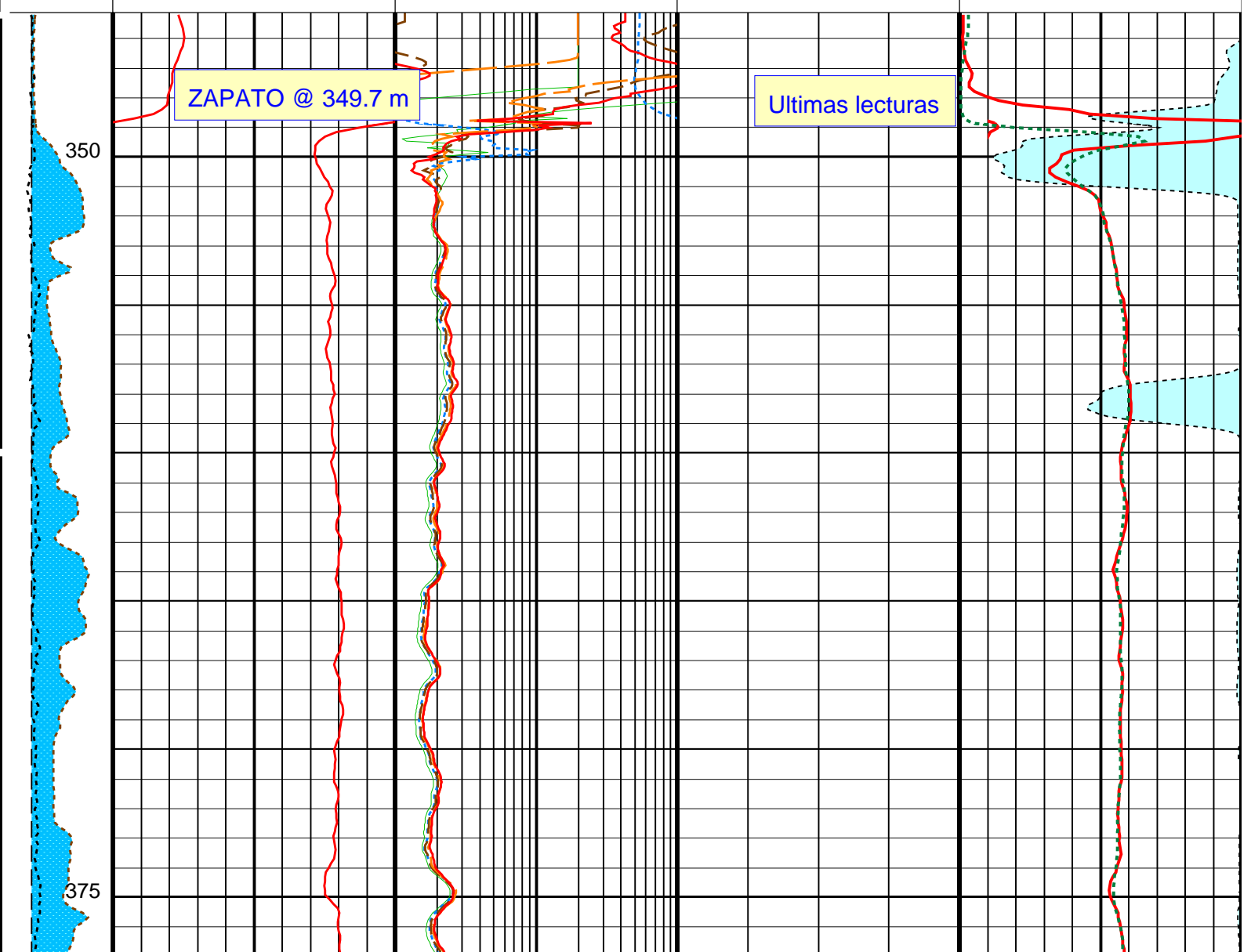
Previous Value Depth & Time

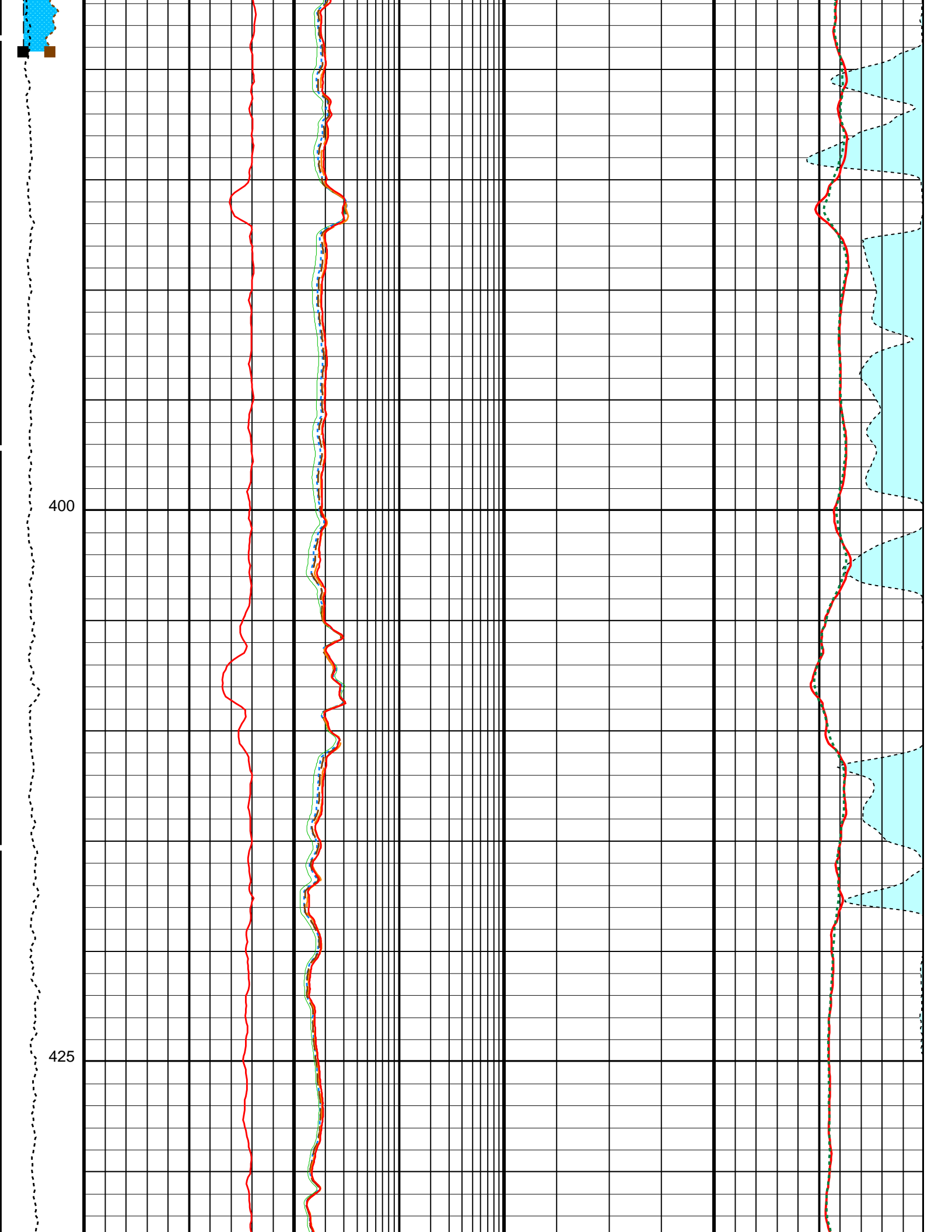
SPDR	0 MV/M	0 MV/M	1807.0 18:52:21
	0.03921 MV/M	0 MV/M	1300.0 18:53:18
	-0.25 MV/M	0.03921 MV/M	1044.9 18:53:47
	0 MV/M	-0.25 MV/M	1024.9 18:53:49

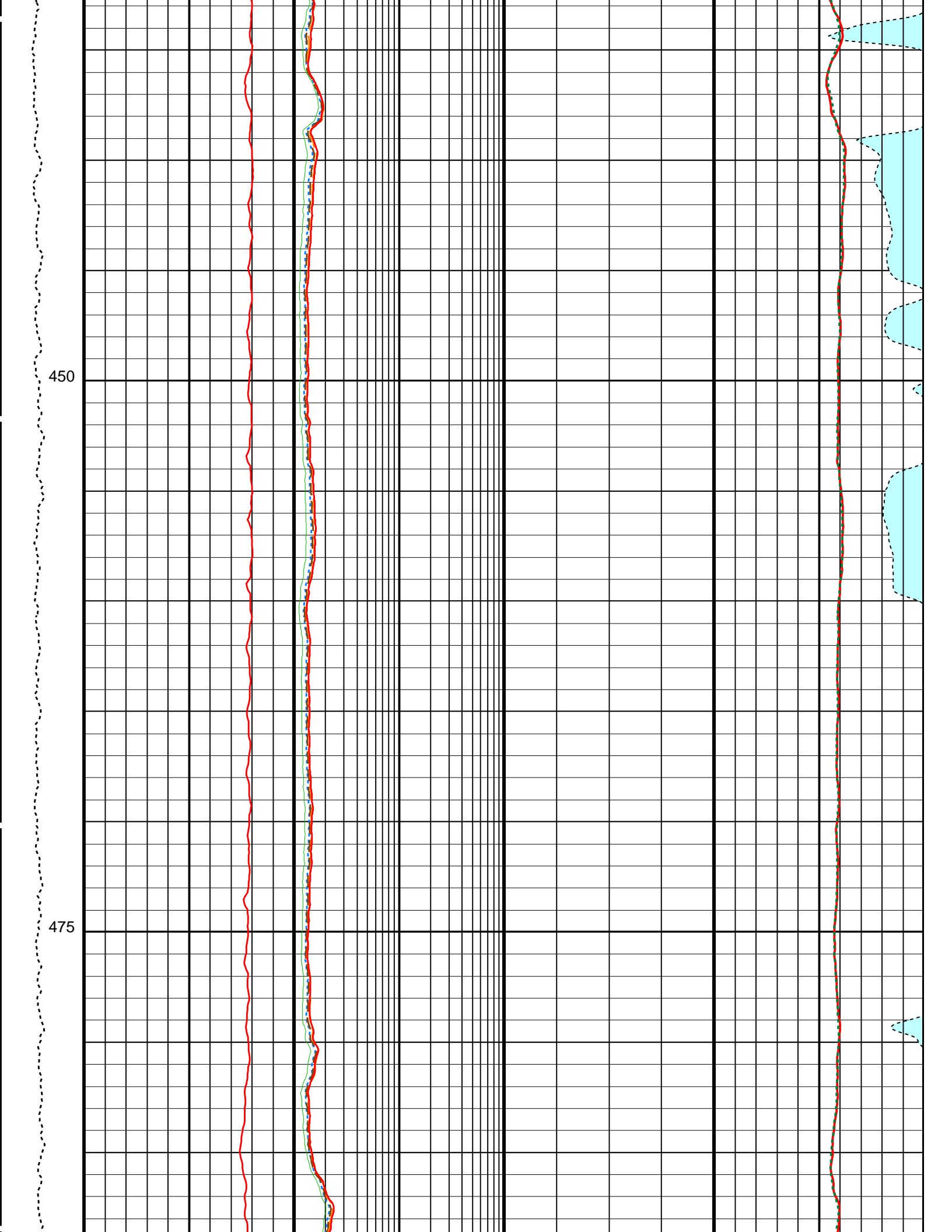
PIP SUMMARY

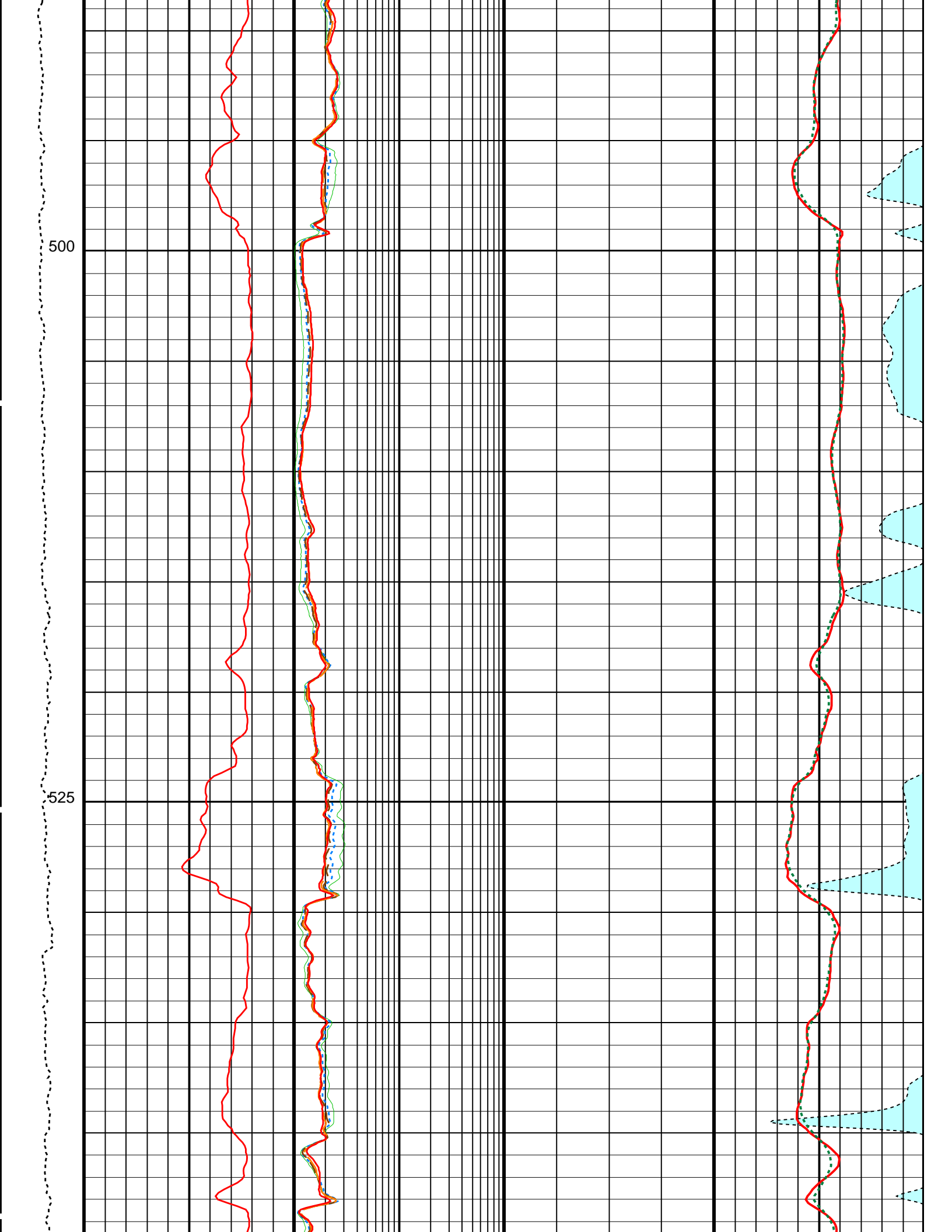
Time Mark Every 60 S

REVOQUE From CALI to BS		AIT-H 90 Inch Investigation (AHT90) 1 (OHMM) 100		Invasion From AHTD2 to F4
Tension (TENS) (LBF) 0 1000		AIT-H 60 Inch Investigation (AHT60) 1 (OHMM) 100		RWA (RWA) 0 (OHMM) 2
CAVERNA From BS to CALI		AIT-H 30 Inch Investigation (AHT30) 1 (OHMM) 100	Gas From DPHI to TNPH	AHF90/AHF10 (LC02) 0 (----) 2
Caliper (CALI) 6 (IN) 16	SP (SP) -80 (MV) 20	AIT-H 20 Inch Investigation (AHT20) 1 (OHMM) 100	Env.Corr.Thermal Neutron Porosity (TNPH) 0.4 (V/V) 0	AHT90/AHT10 (LC01) 0 (----) 2
Bit Size (BS) 6 (IN) 16	PhotoElectric Factor (PEF) 0 (----) 5	AIT-H 10 Inch Investigation (AHT10) 1 (OHMM) 100	Density Porosity (DPHI) 0.4 (V/V) 0	AIT-H Outer Invasion Diameter (AHTD2) 210 (IN) 10





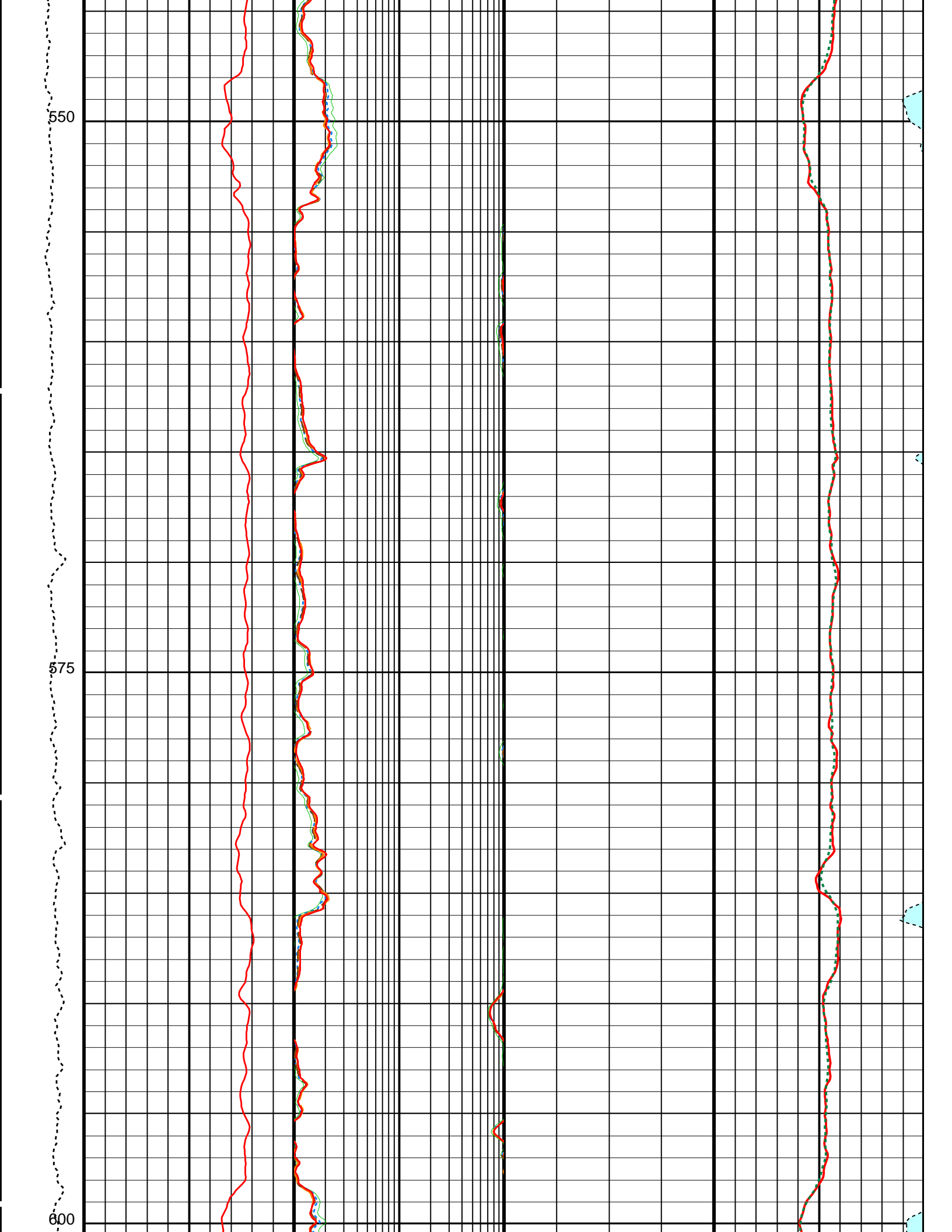




550

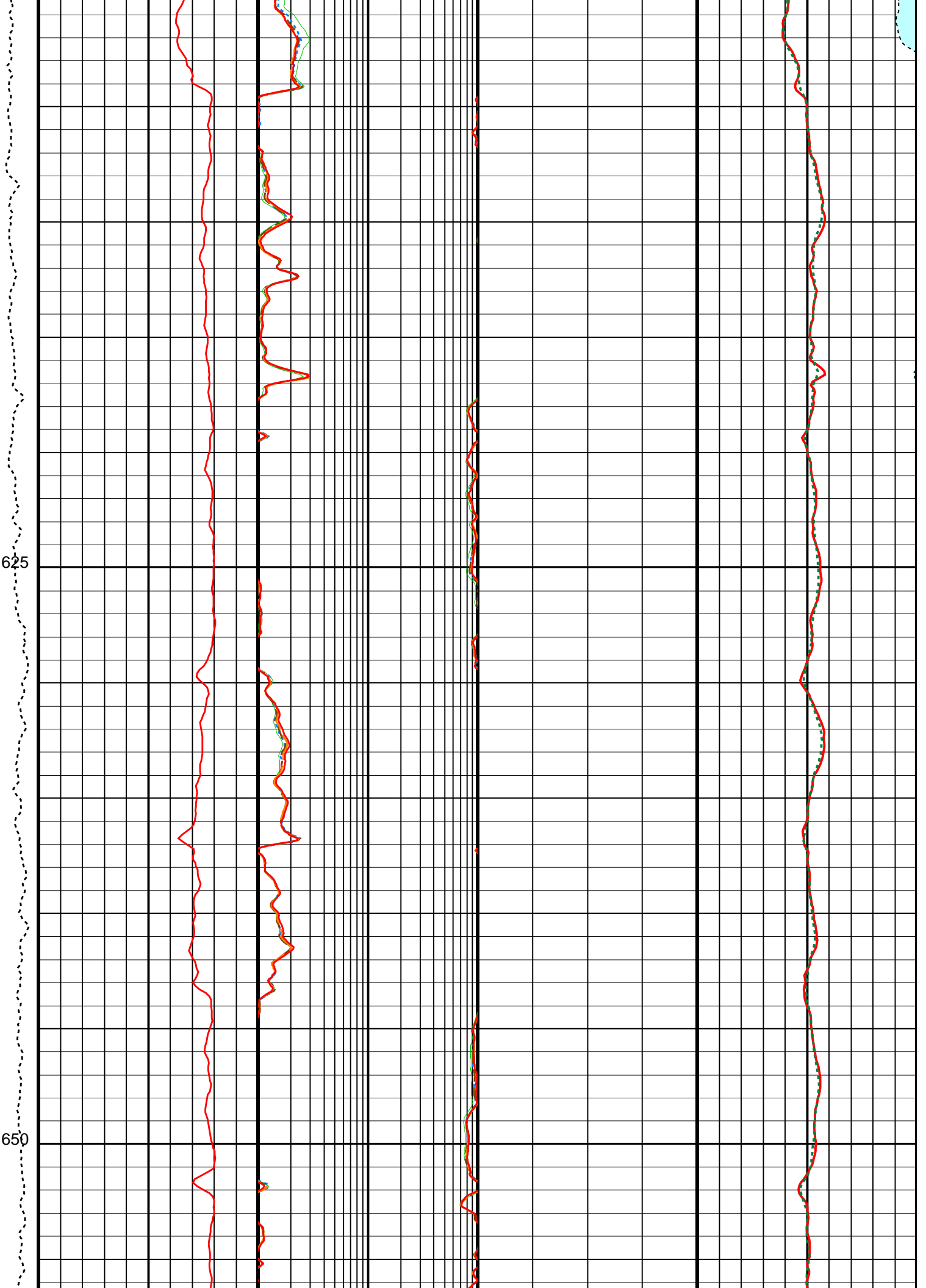
575

600



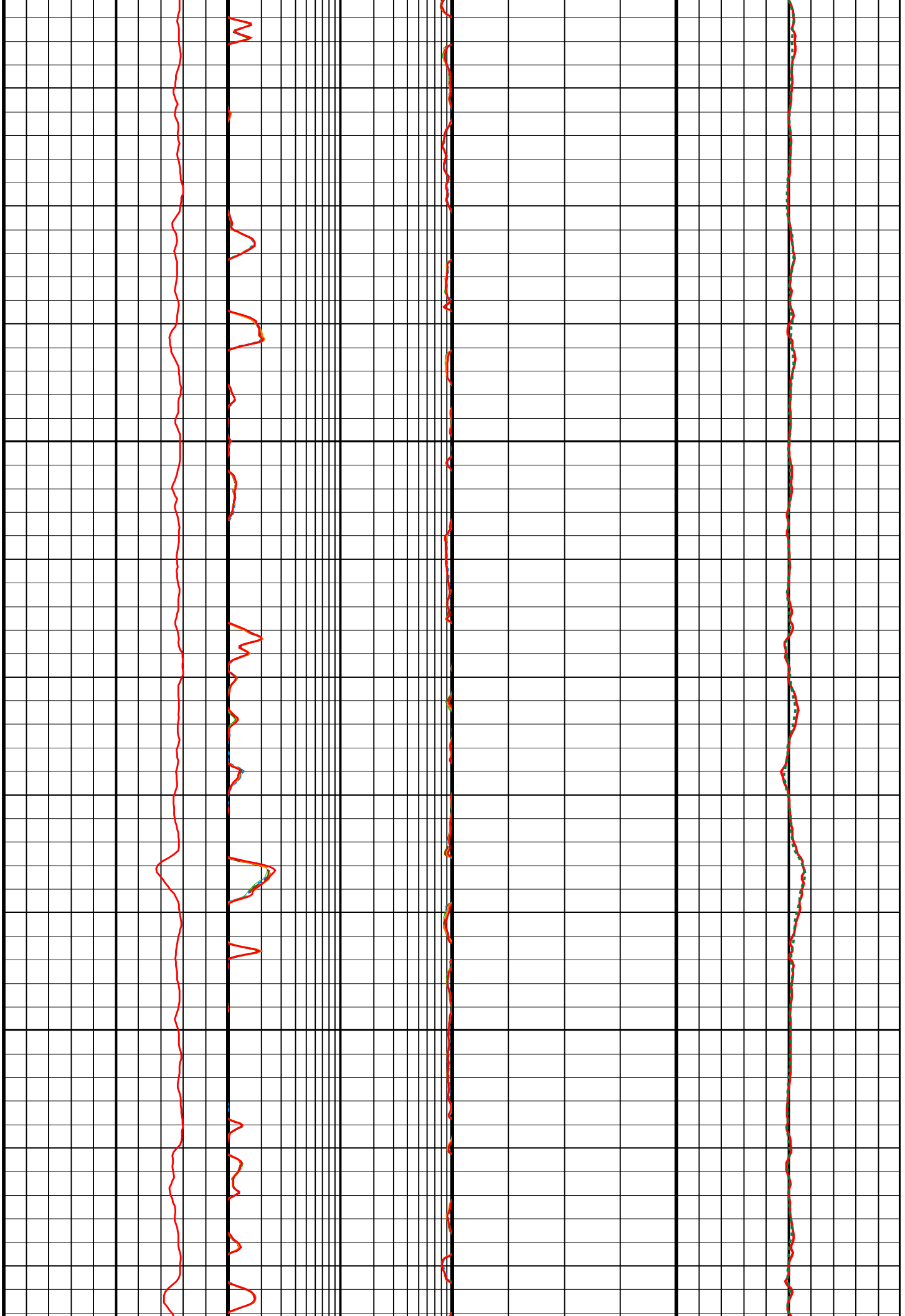
625

650



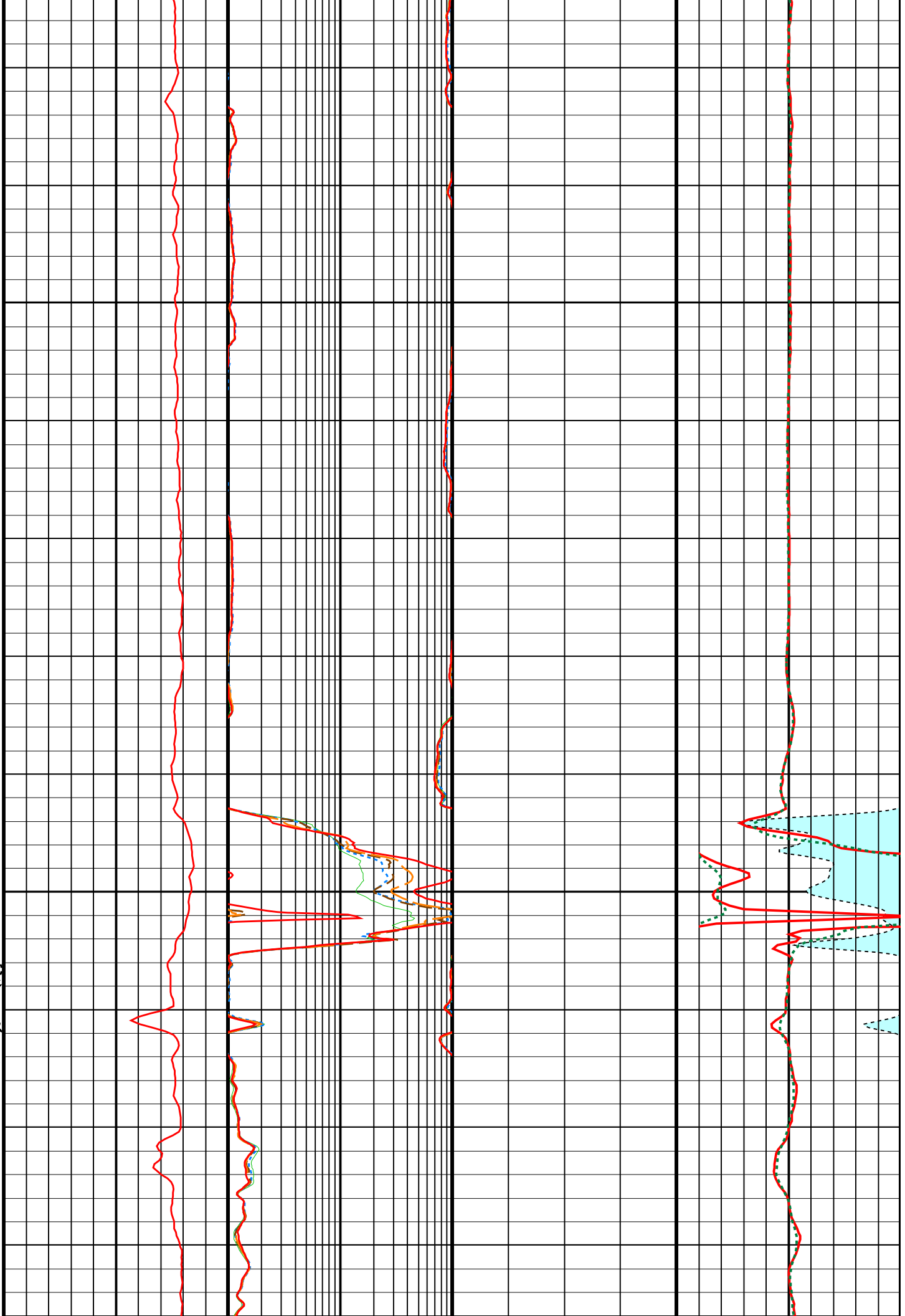
675

700



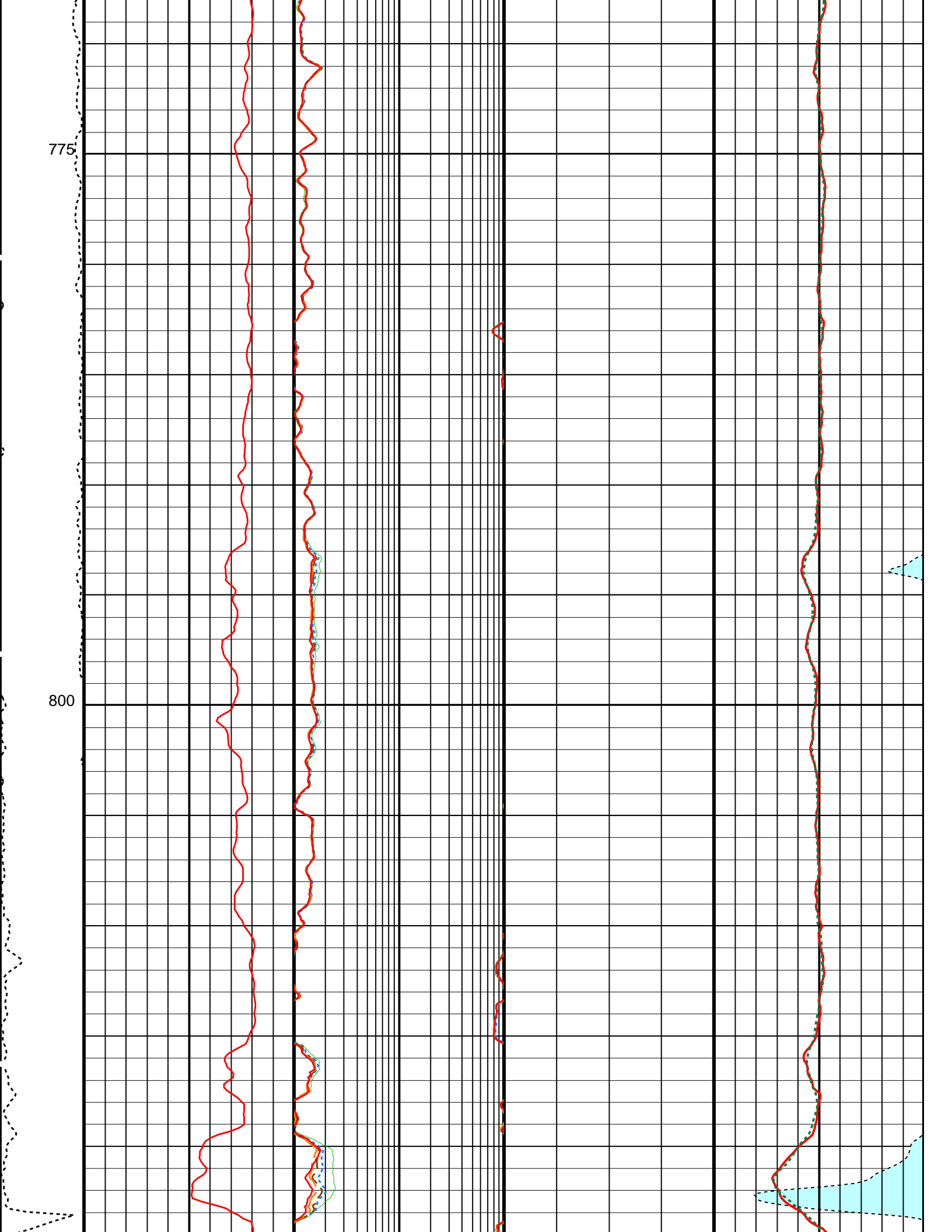
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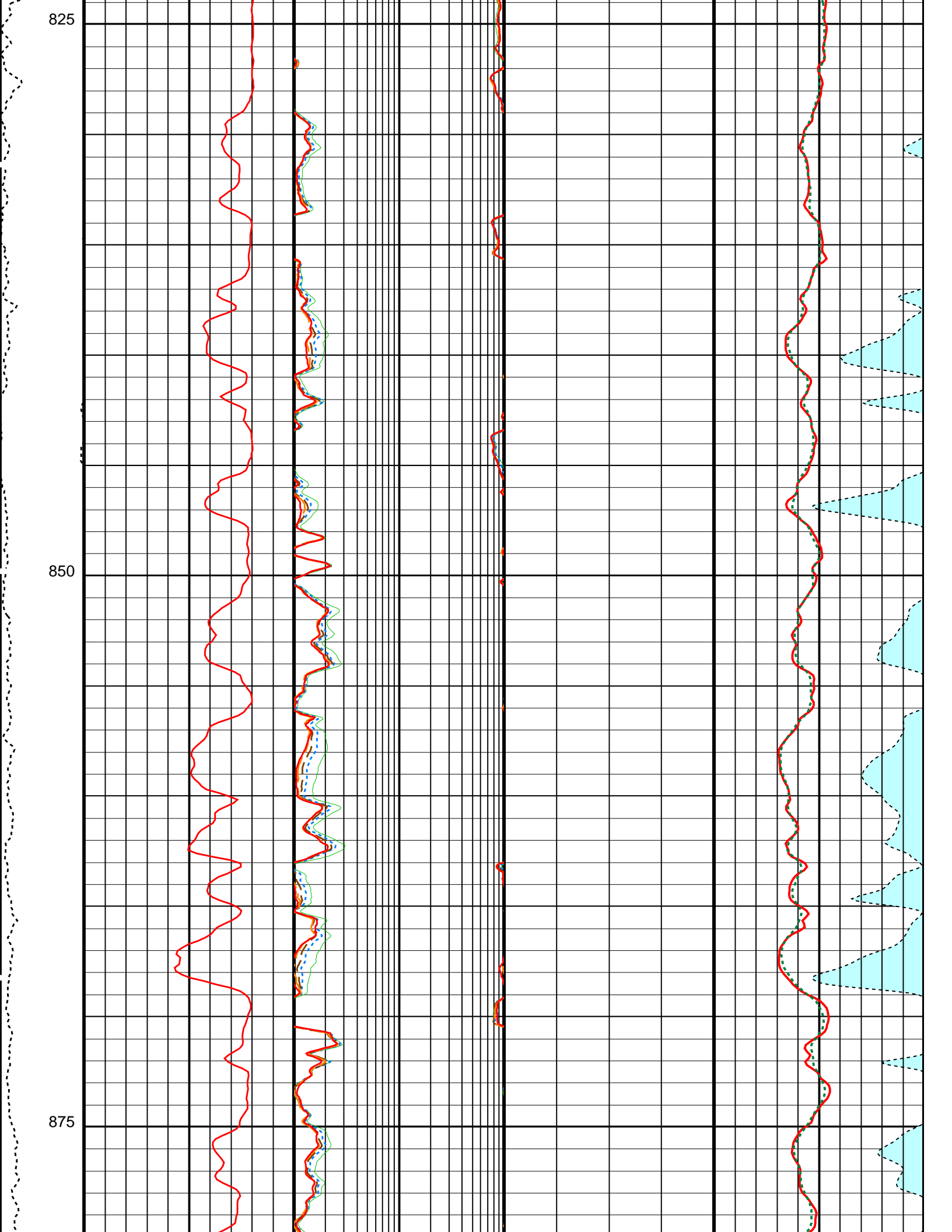
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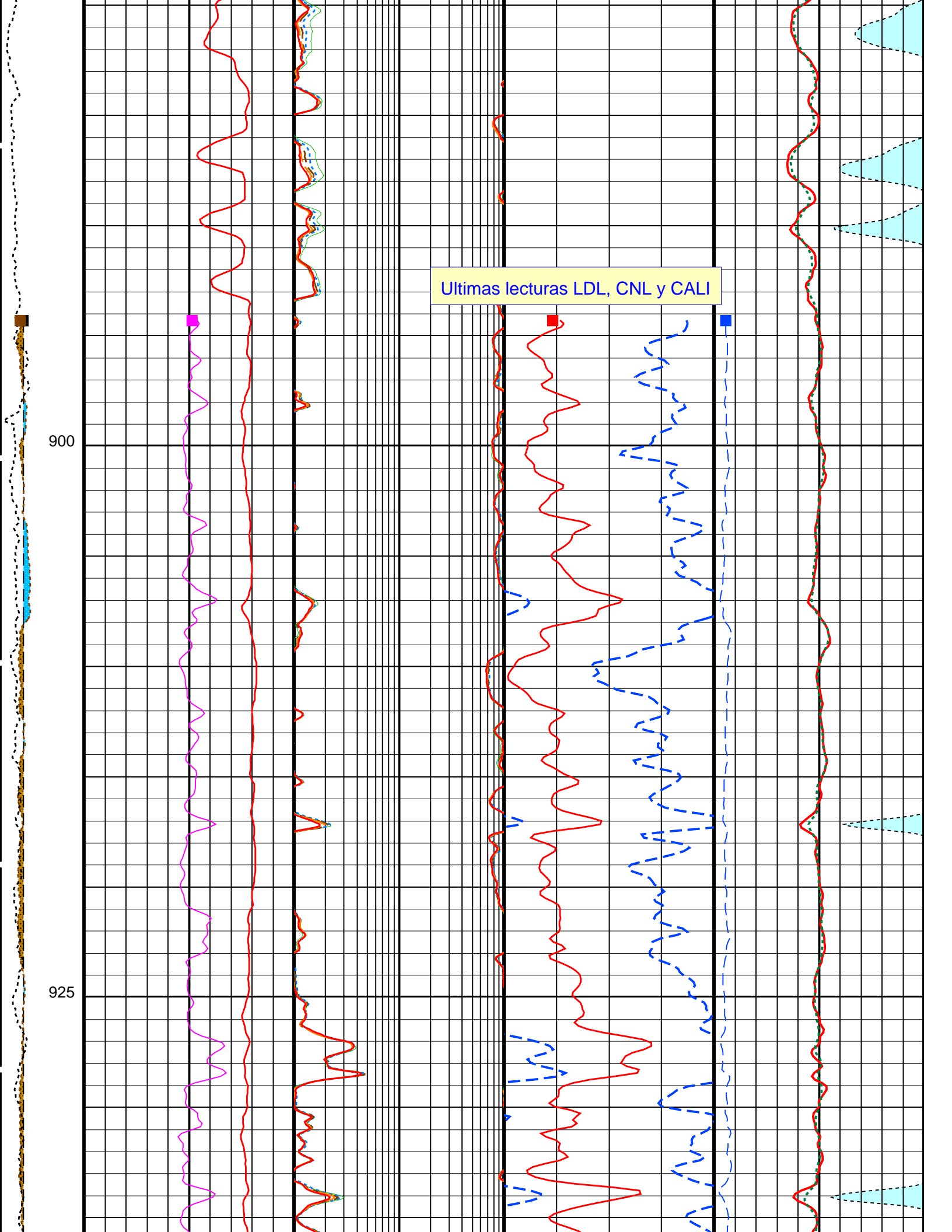


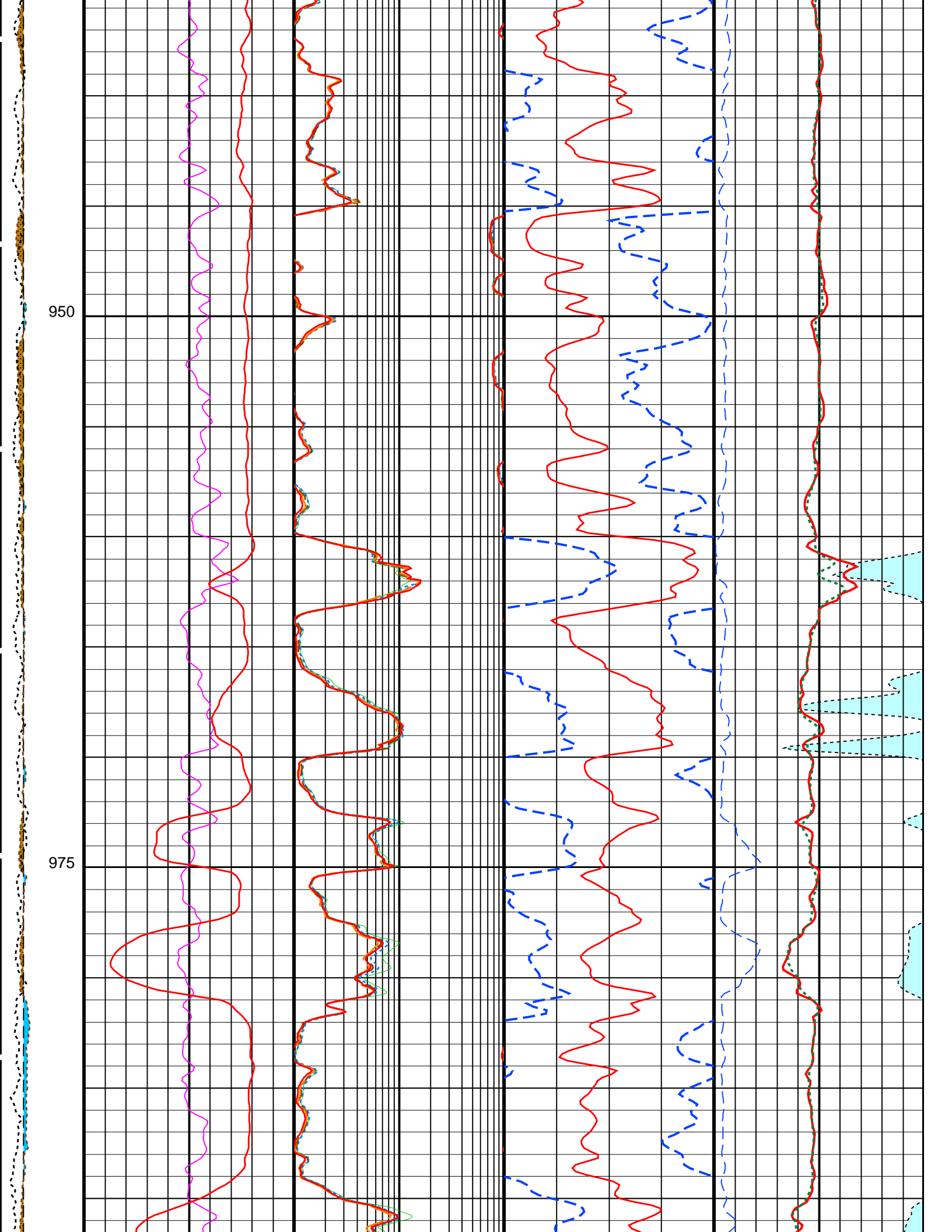
775

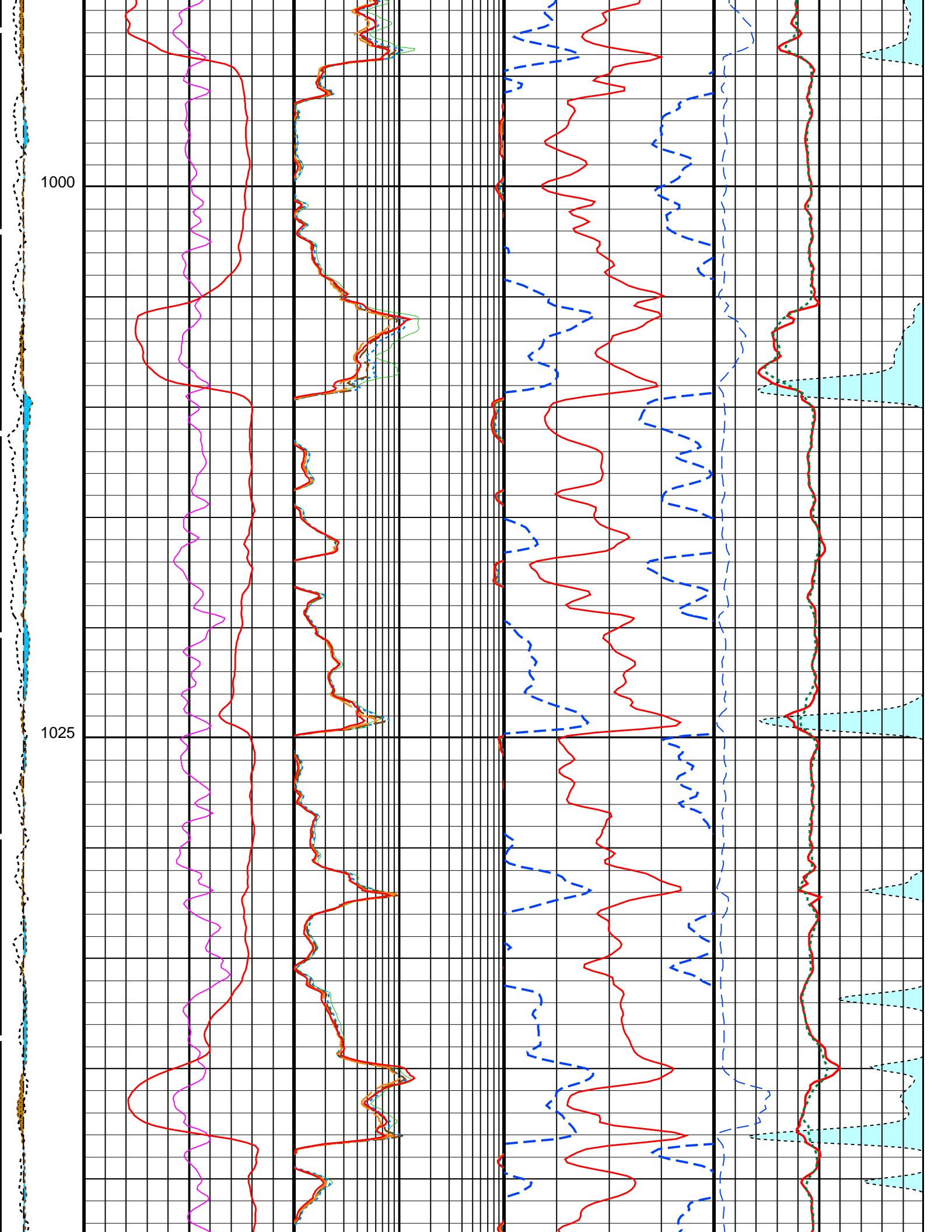
800

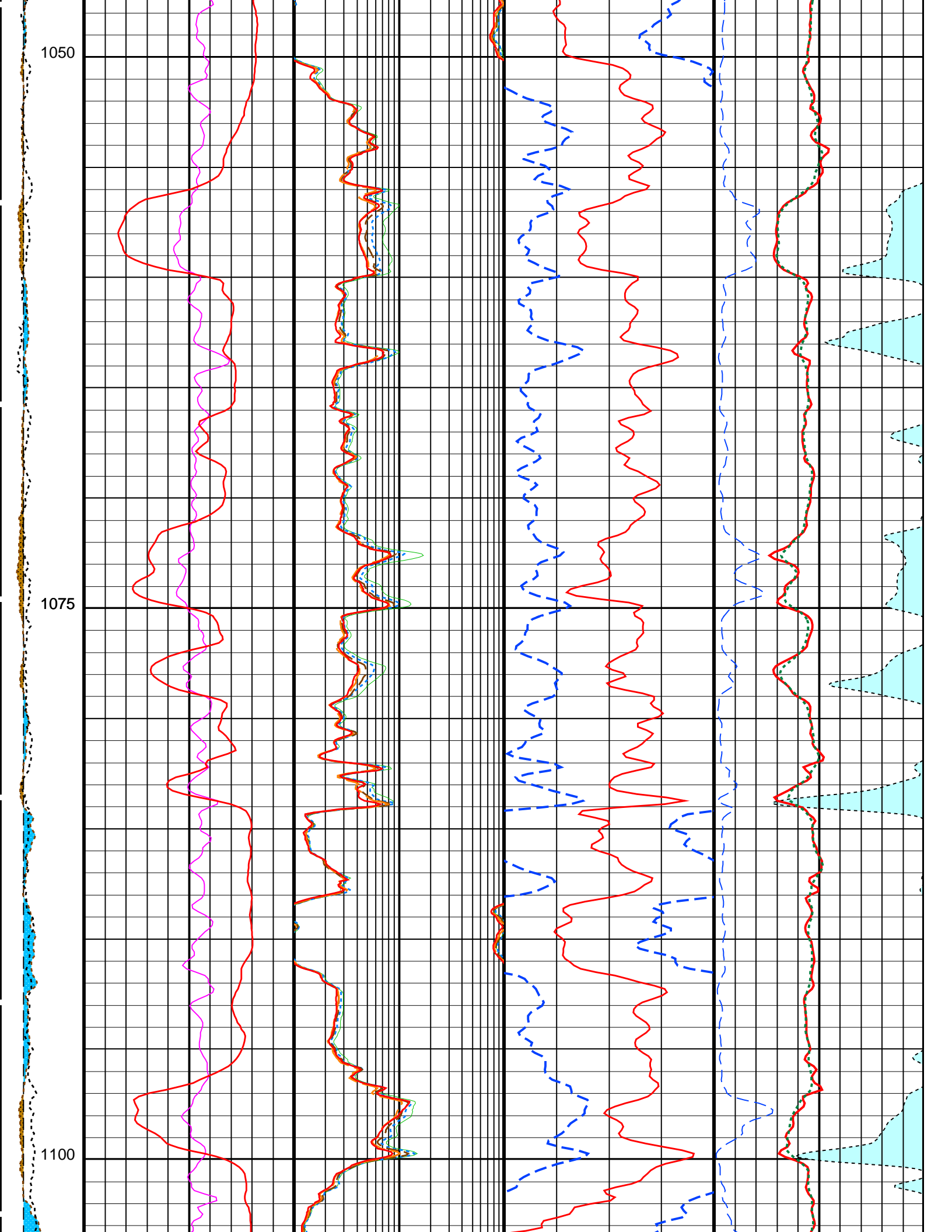


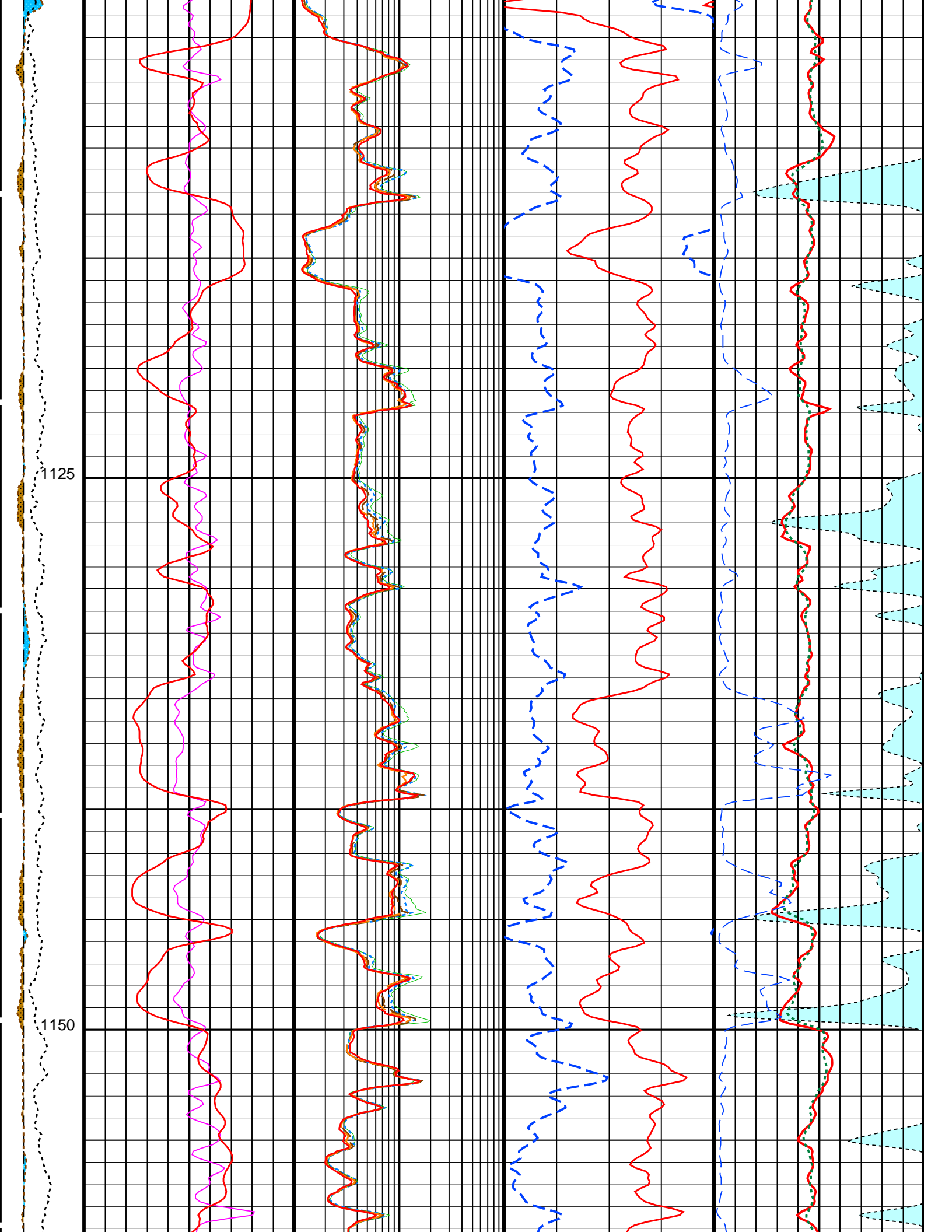


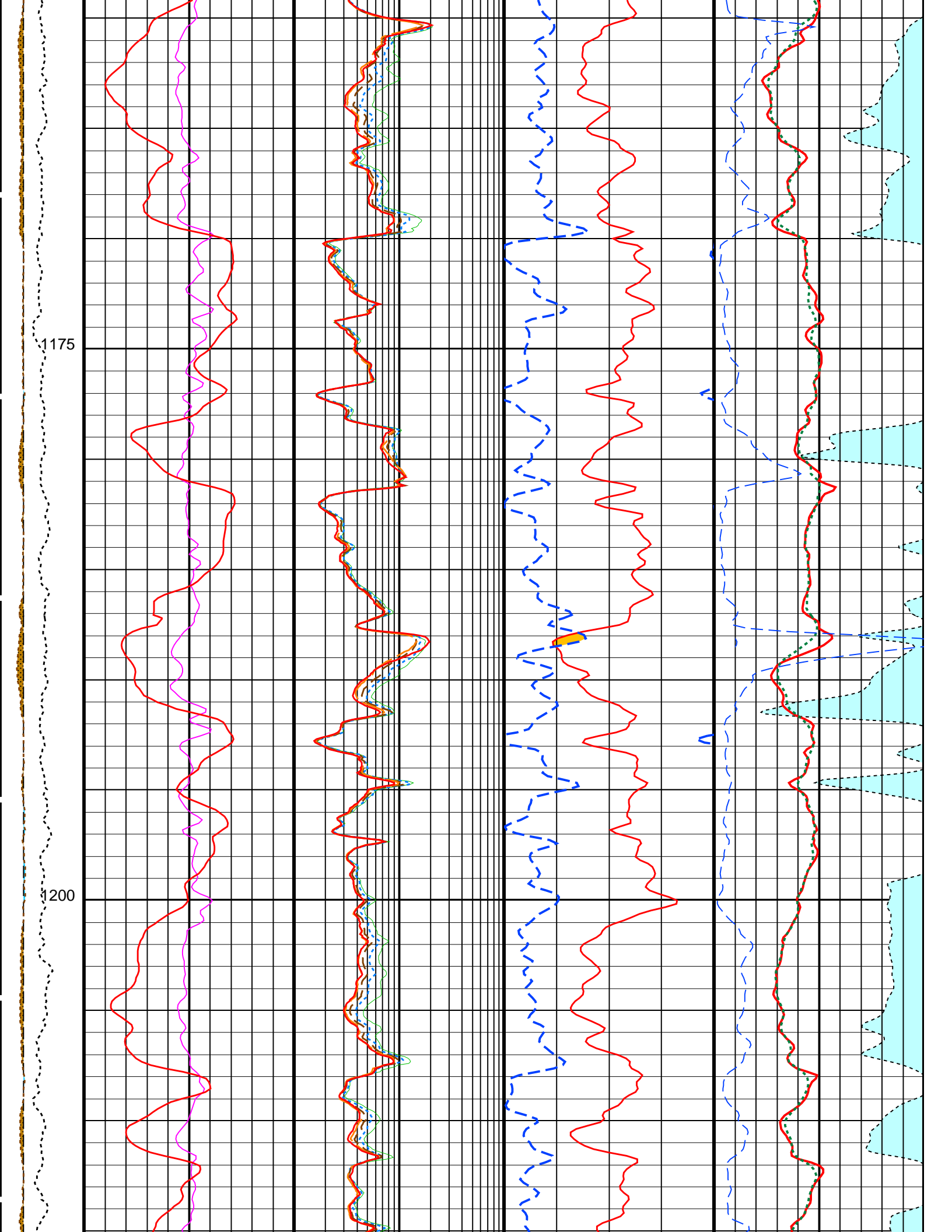


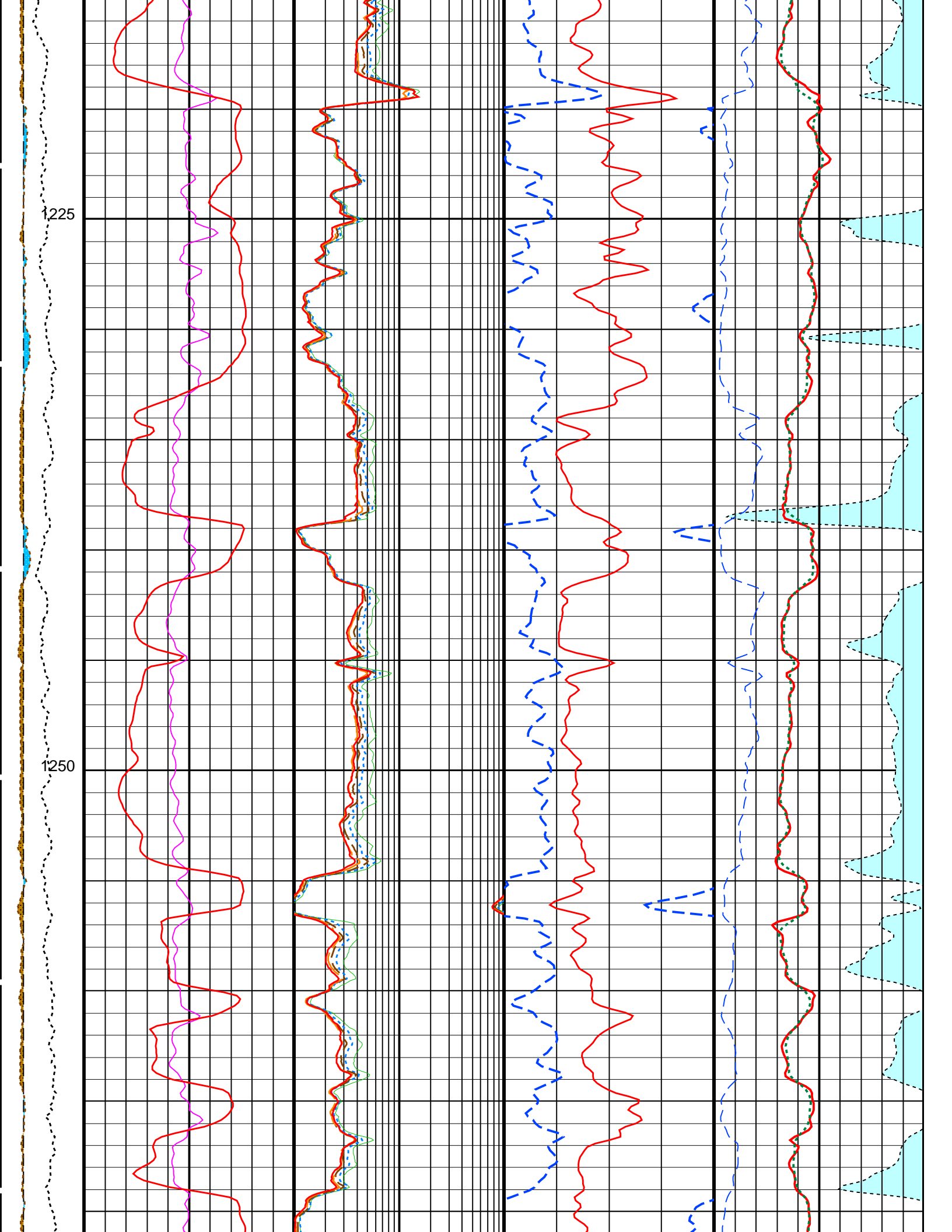


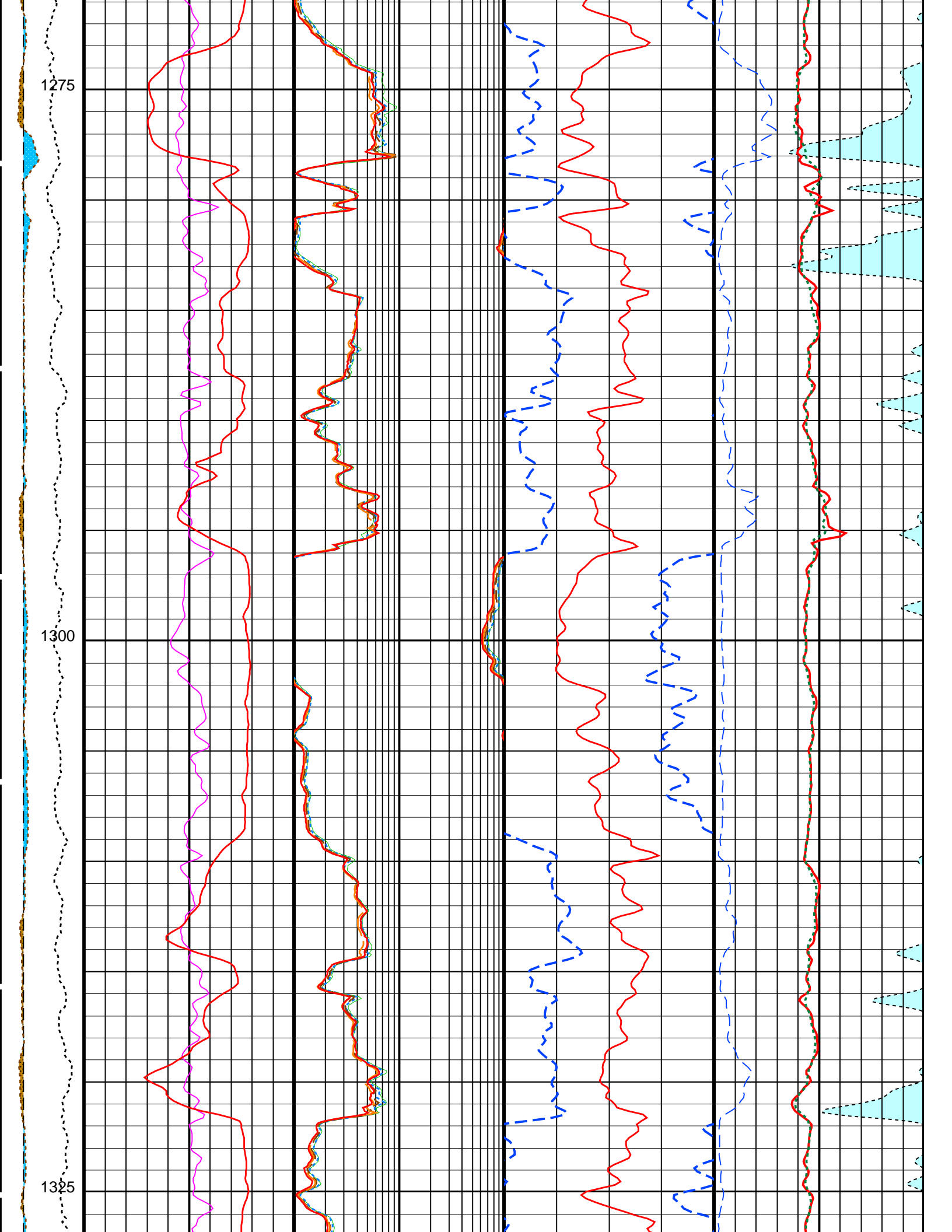


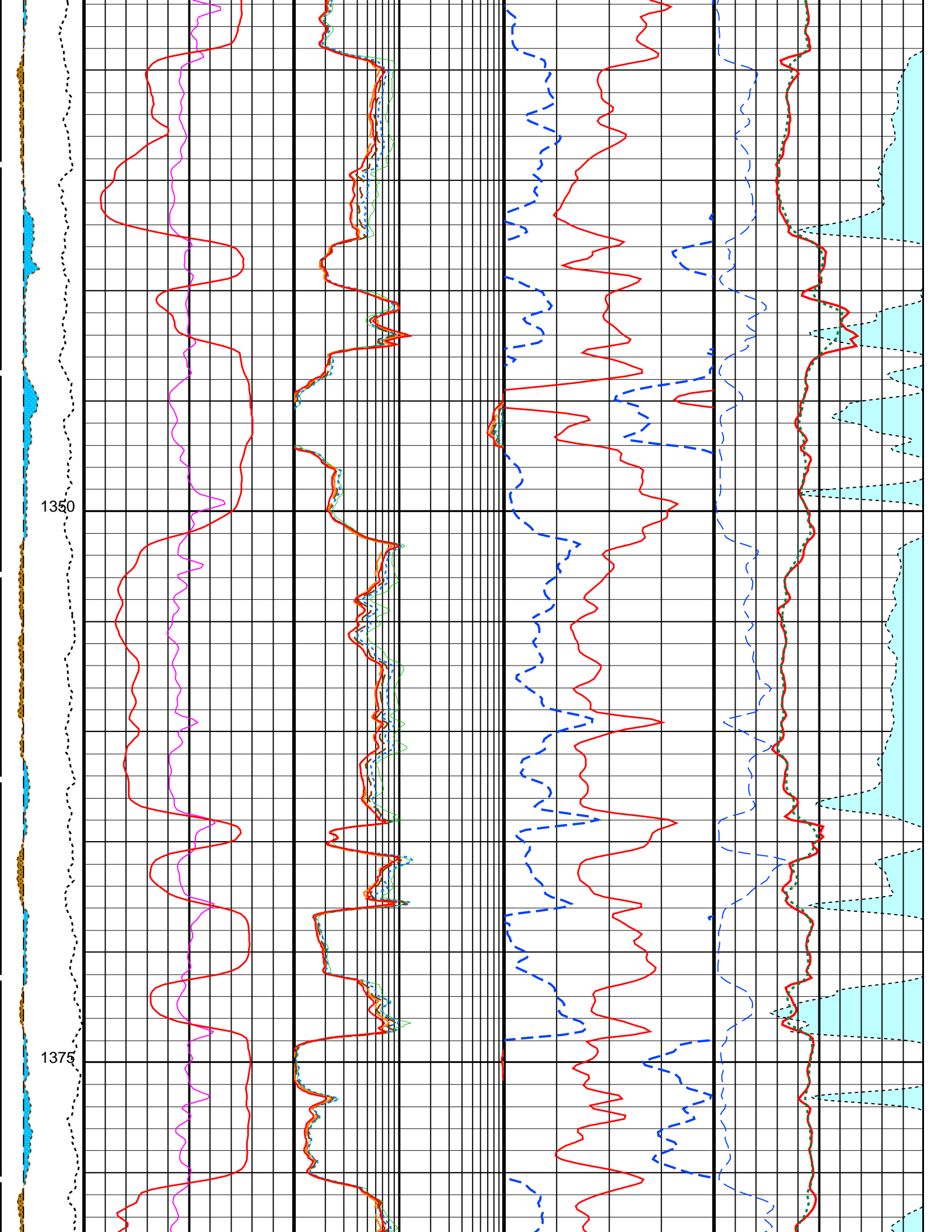


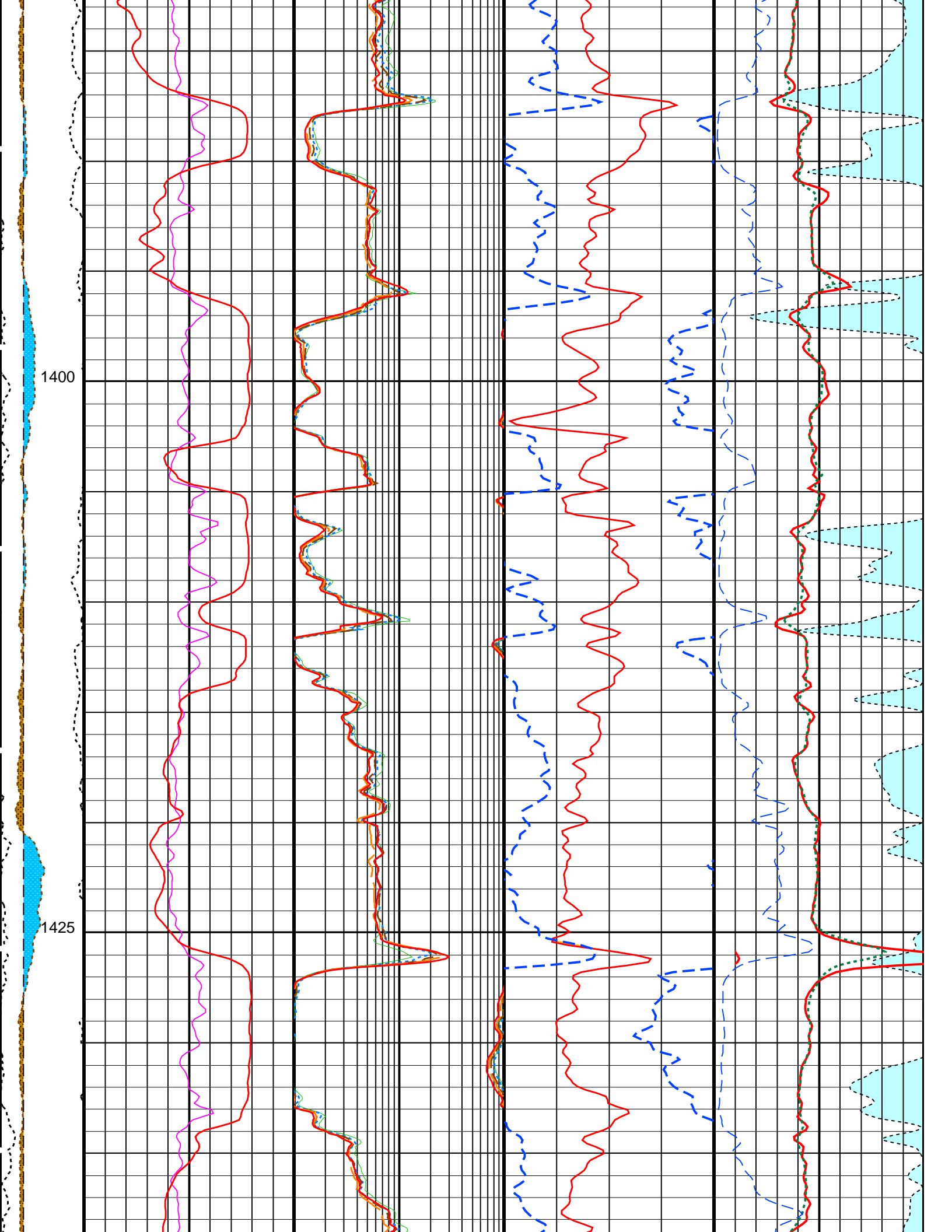


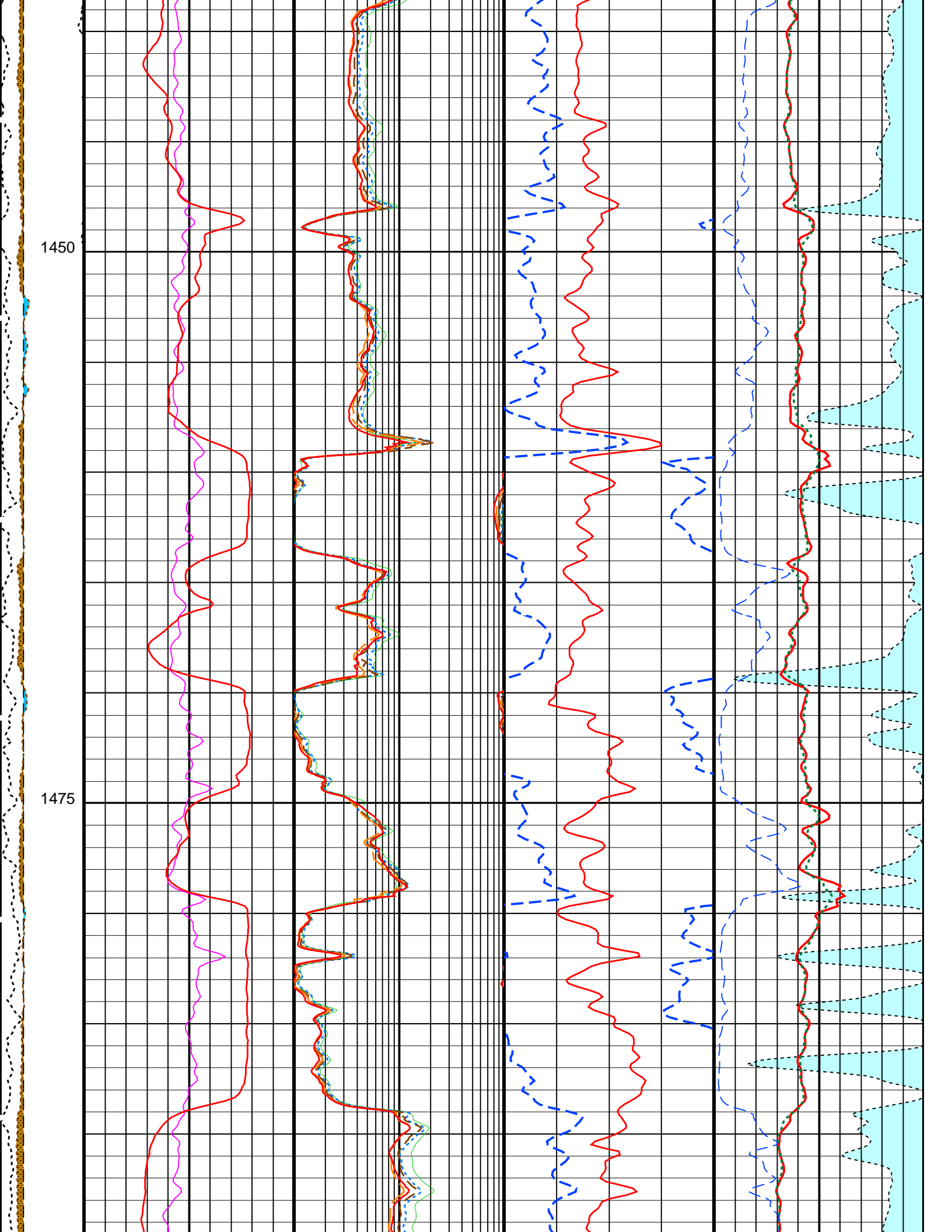


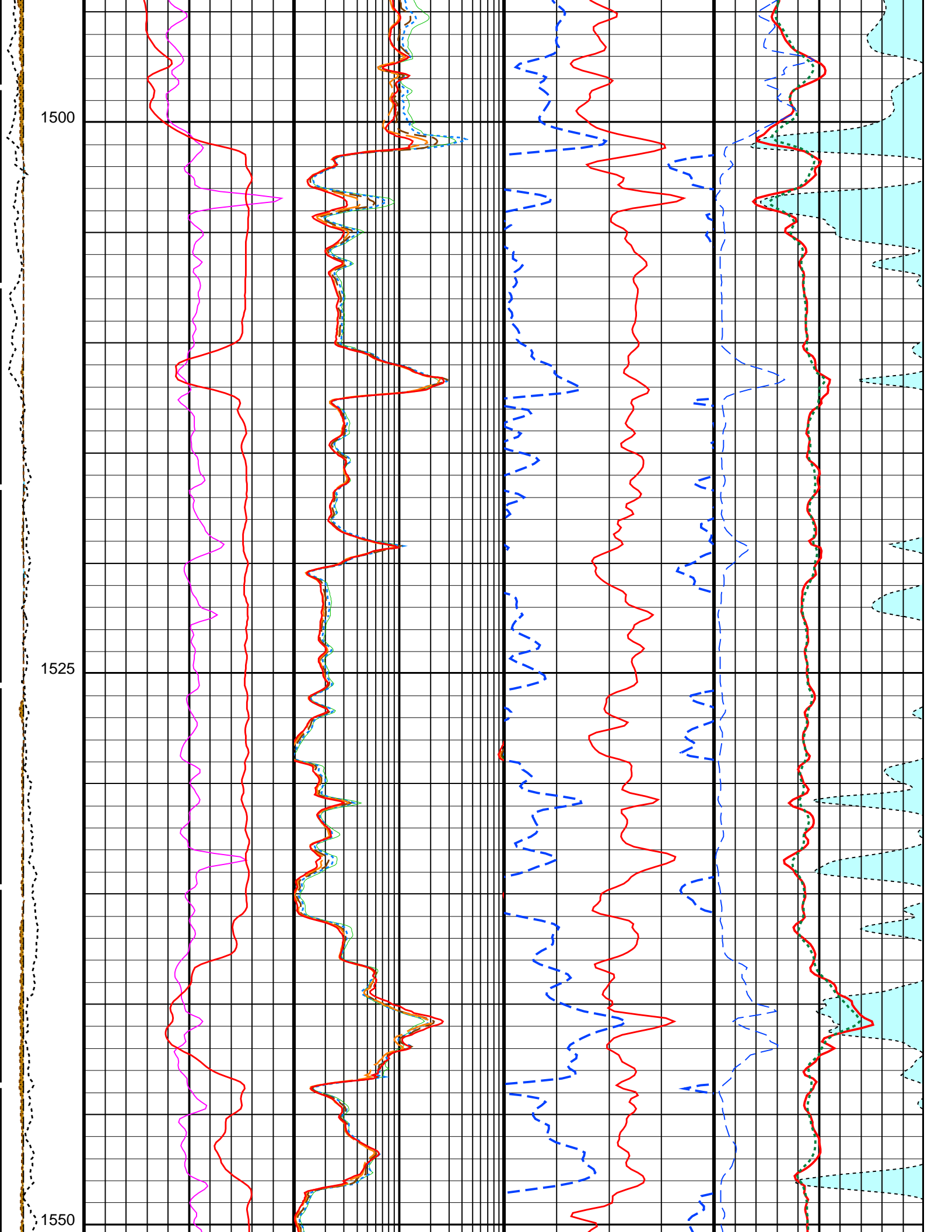


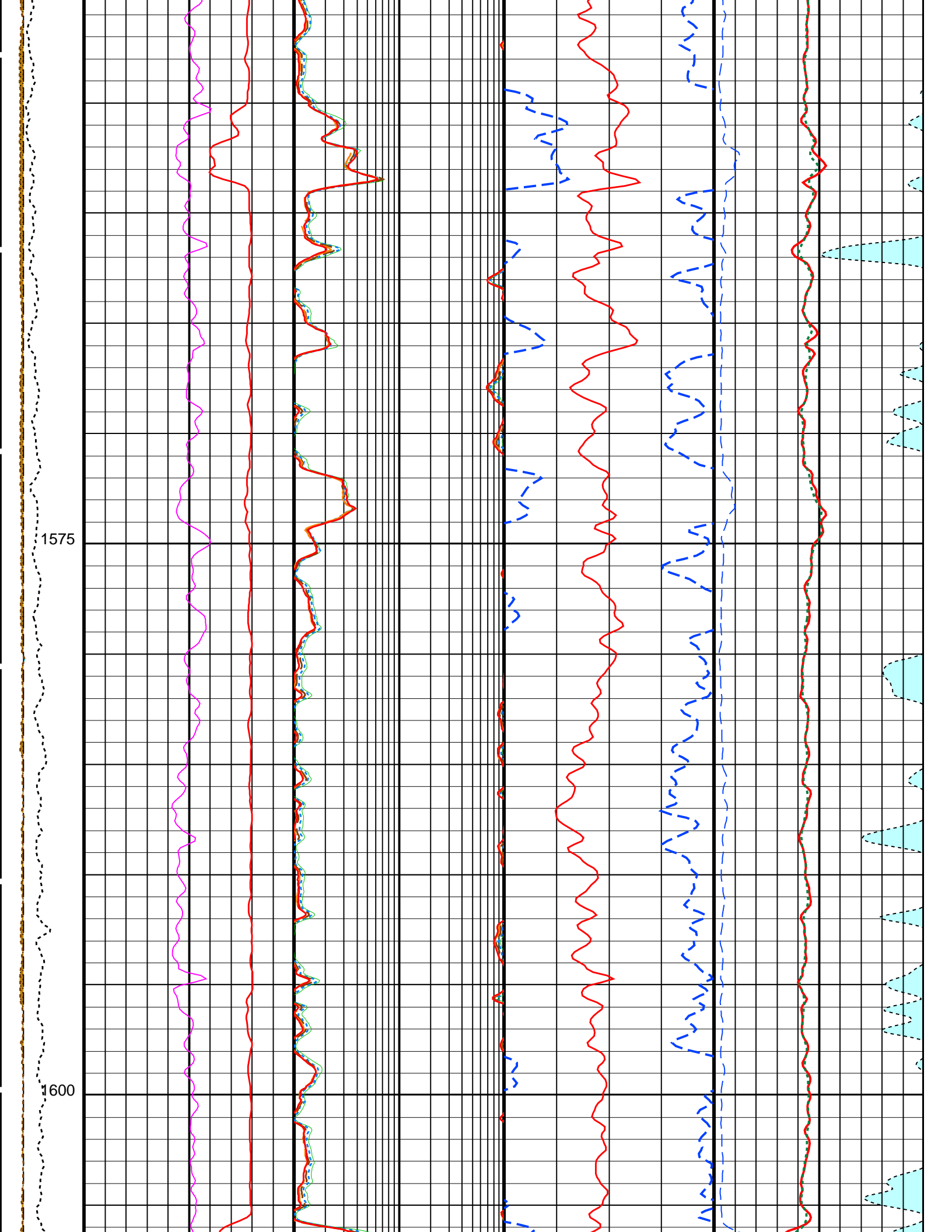


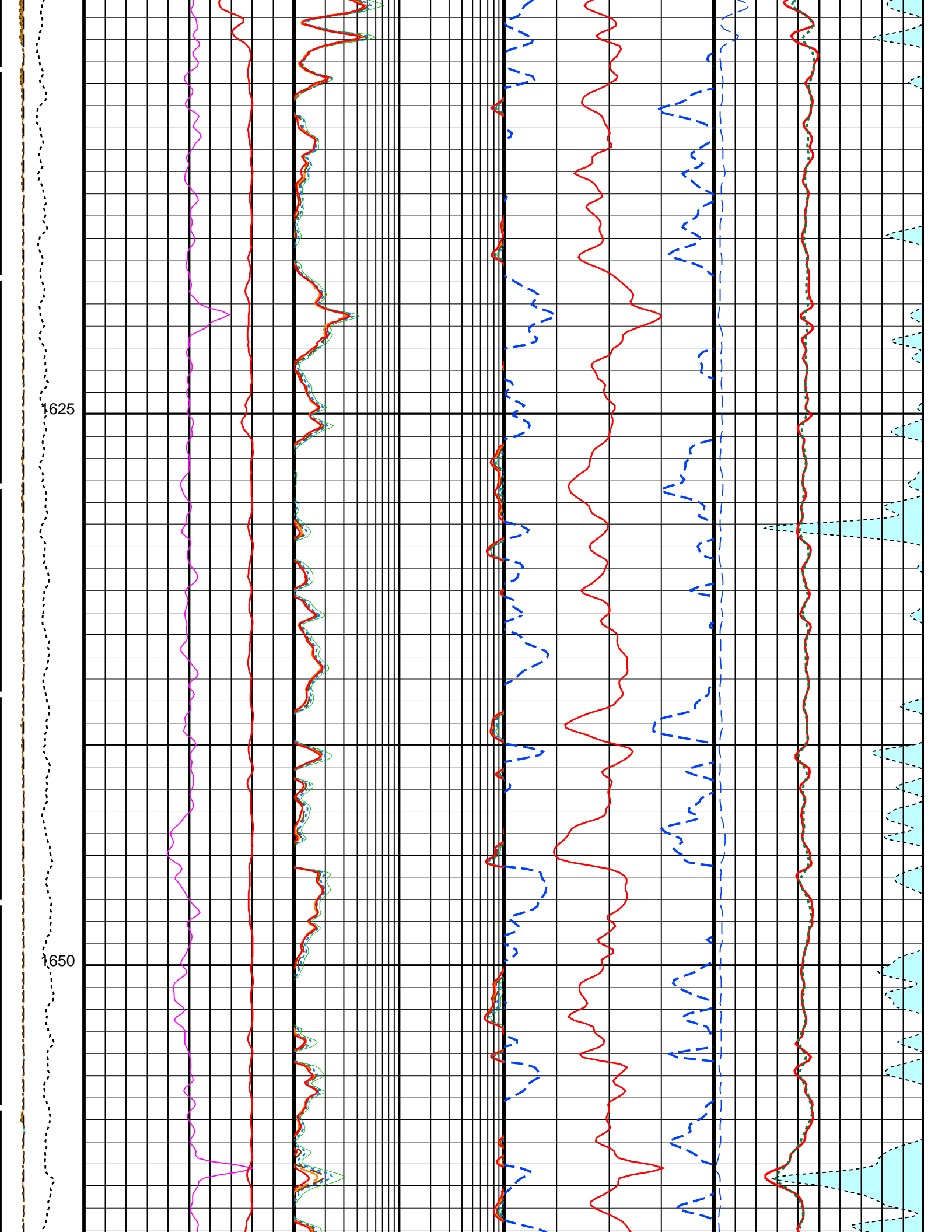


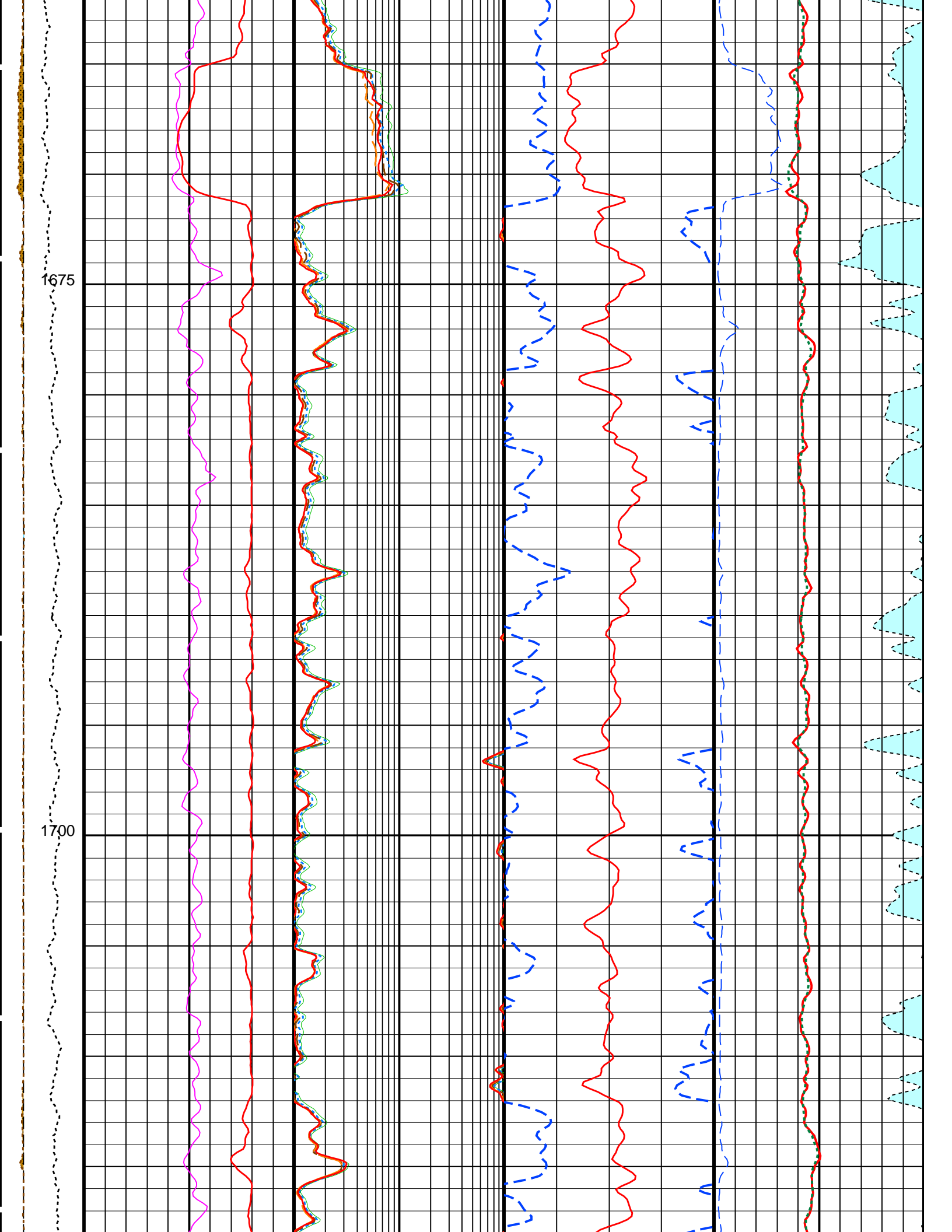






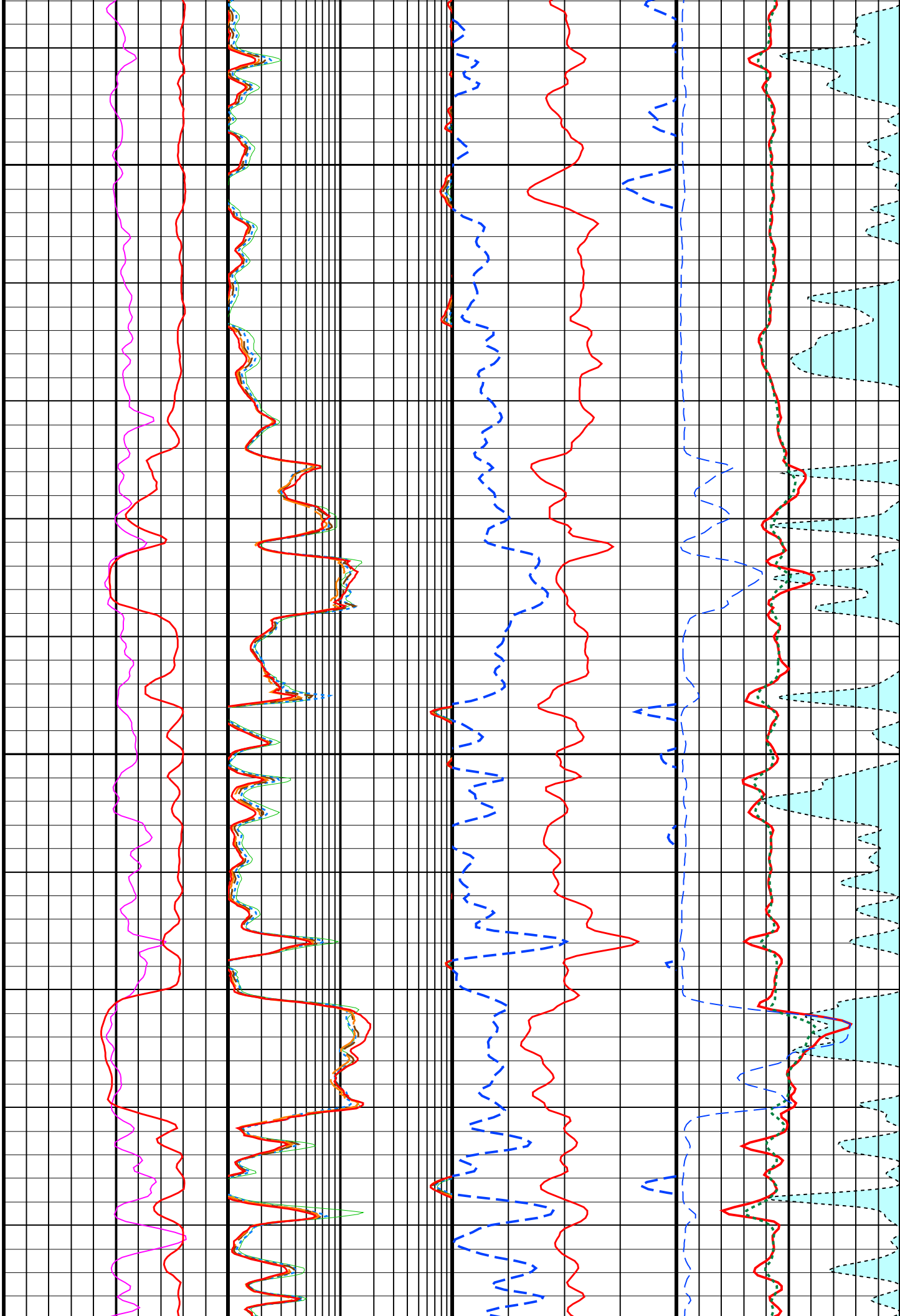


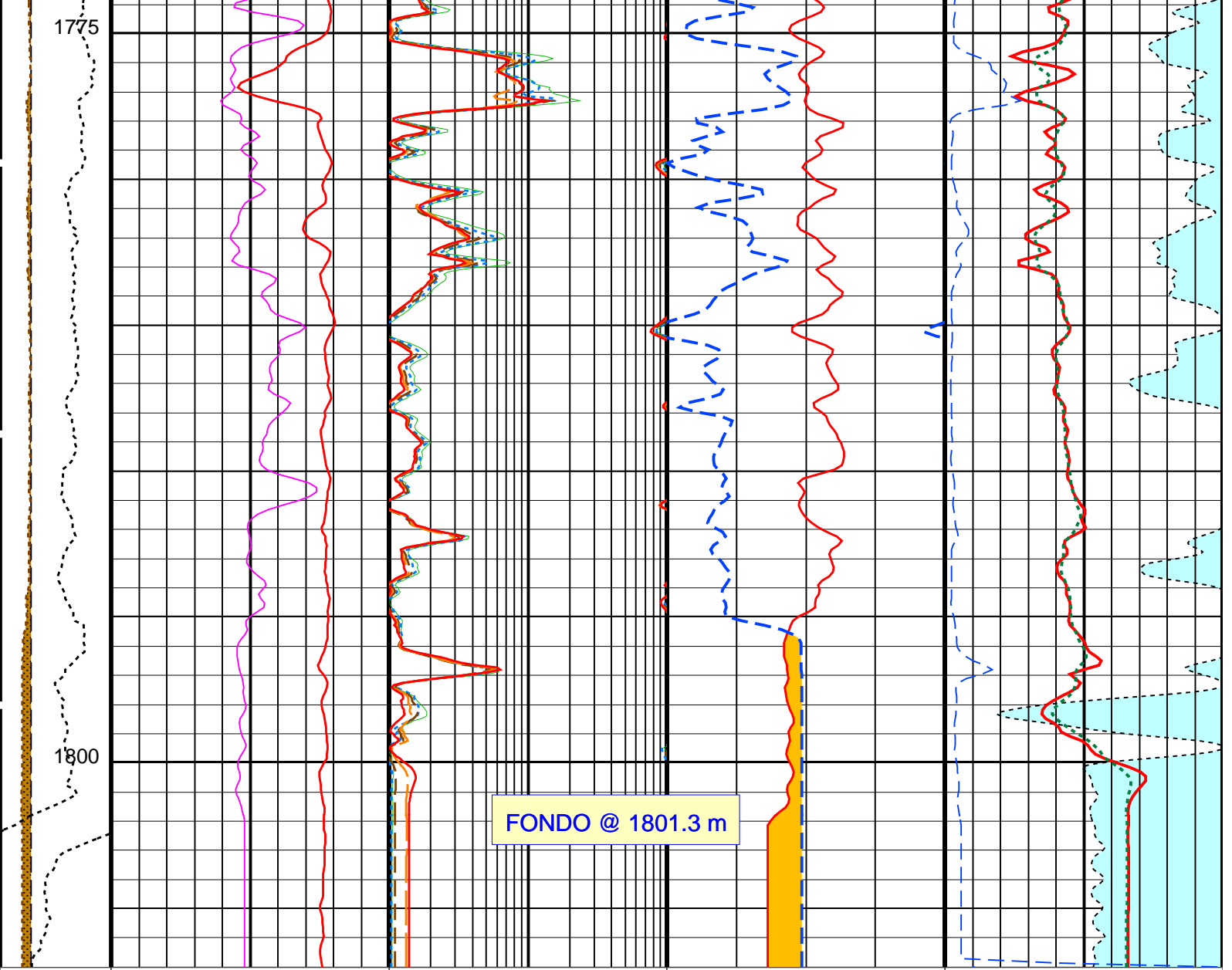




1725

1750





FONDO @ 1801.3 m

Bit Size (BS) 6 (IN) 16	PhotoElectric Factor (PEF) 0 (----) 5	AIT-H 10 Inch Investigation (AHT10) 1 (OHMM) 100	Density Porosity (DPHI) 0.4 (V/V) 0	AIT-H Outer Invasion Diameter (AHTD2) 210 (IN) 10
Caliper (CALI) 6 (IN) 16	SP (SP) -80 (MV) 20	AIT-H 20 Inch Investigation (AHT20) 1 (OHMM) 100	Env.Corr.Thermal Neutron Porosity (TNPH) 0.4 (V/V) 0	AHT90/AHT10 (LC01) 0 (----) 2
CAVERNA From BS to CALI		AIT-H 30 Inch Investigation (AHT30) 1 (OHMM) 100	Gas From DPHI to TNPH	AHF90/AHF10 (LC02) 0 (----) 2
Tension (TENS) (LBF) 0 1000		AIT-H 60 Inch Investigation (AHT60) 1 (OHMM) 100		RWA (RWA) 0 (OHMM) 2
REVOQUE From CALI to BS		AIT-H 90 Inch Investigation (AHT90) 1 (OHMM) 100		Invasion From AHTD2 to F4

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
-----------	-------------	-------

AIT-H: Array Induction Tool - H

AHBHM	Array Induction Borehole Correction Mode	2_ComputeStandoff	
AHBHV	Array Induction Borehole Correction Code Version Number	880	
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	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	70	DEGC
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	0.81	
FPHI	Form Factor Porosity Source	DPHI	
GCSE	Generalized Caliper Selection	CALI	
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	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
RTCO	RTCO - Rt Invasion Correction	YES	
SHT	Surface Hole Temperature	20	DEGC
SPDR	SP Drift	0	MV/M
SPNV	SP Next Value	-4	MV

LDT-D: Litho Density - D

BFM	Borehole Fluid Medium	LIQUID	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	70	DEGC
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
GCSE	Generalized Caliper Selection	CALI	
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	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MDEN	Matrix Density	2.65	G/C3
SHT	Surface Hole Temperature	20	DEGC
WMUD	Mud Weight	1.17	G/C3

HILTB-FTB: High resolution Integrated Logging Tool-DTS

BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	70	DEGC
BSCO	Borehole Salinity Correction Option	YES	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	0.81	
FPHI	Form Factor Porosity Source	DPHI	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	CALI	
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	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	YES	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	YES	
PTCO	Pressure/Temperature Correction Option	YES	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	

RWA: Apparent Water

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	DPHI	
RTCO	RTCO - Rt Invasion Correction	YES	

ALLRES: Basic Resistivity Transforms

ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90	
RTCO	RTCO - Rt Invasion Correction	YES	

HOLEV: Integrated Hole/Cement Volume

BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	70	DEGC
GCSE	Generalized Caliper Selection	CALI	
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	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
STI: Stuck Tool Indicator			
TDL	Total Depth - Logger	1801.30	M
System and Miscellaneous			
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	350.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	32.30	LB/F
DFD	Drilling Fluid Density	1.17	G/C3
DO	Depth Offset for Playback	0.2	M
MST	Mud Sample Temperature	7.20	DEGC
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	3.8800	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1801.3	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: QUICKLOOK Vertical Scale: 1:200 Graphics File Created: 30-Jun-2006 18:52

OP System Version: 14C0-302 MCM

AIT-H	14C0-302	LDT-D	14C0-302
DTA-A	14C0-302	HILTB-FTB	14C0-302
DTC-H	14C0-302		

Input DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_025LUP	FN:24	PRODUCER	30-Jun-2006 08:23	1806.9 M	291.0 M
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Output DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_089PUP	FN:42	PRODUCER	30-Jun-2006 18:52		
CUST1	AIT_LDL_TLD_MCFL_089PUC	FN:43	CUSTOMER	30-Jun-2006 18:52		
CUST2	AIT_LDL_TLD_MCFL_089PUC	FN:44	CUSTOMER	30-Jun-2006 18:52		



TRAMO REPETIDO

MAXIS Field Log

Input DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_024LUP	FN:23	PRODUCER	30-Jun-2006 08:23	1805.0 M	1626.4 M
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Output DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_091PUP	FN:48	PRODUCER	30-Jun-2006 19:01	1775.0 M	1700.9 M
CUST1	AIT_LDL_TLD_MCFL_091PUC	FN:49	CUSTOMER	30-Jun-2006 19:01	1775.0 M	1700.9 M
CUST2	AIT_LDL_TLD_MCFL_091PUC	FN:50	CUSTOMER	30-Jun-2006 19:01	1775.0 M	1700.9 M

OP System Version: 14C0-302 MCM

AIT-H	14C0-302	LDT-D	14C0-302
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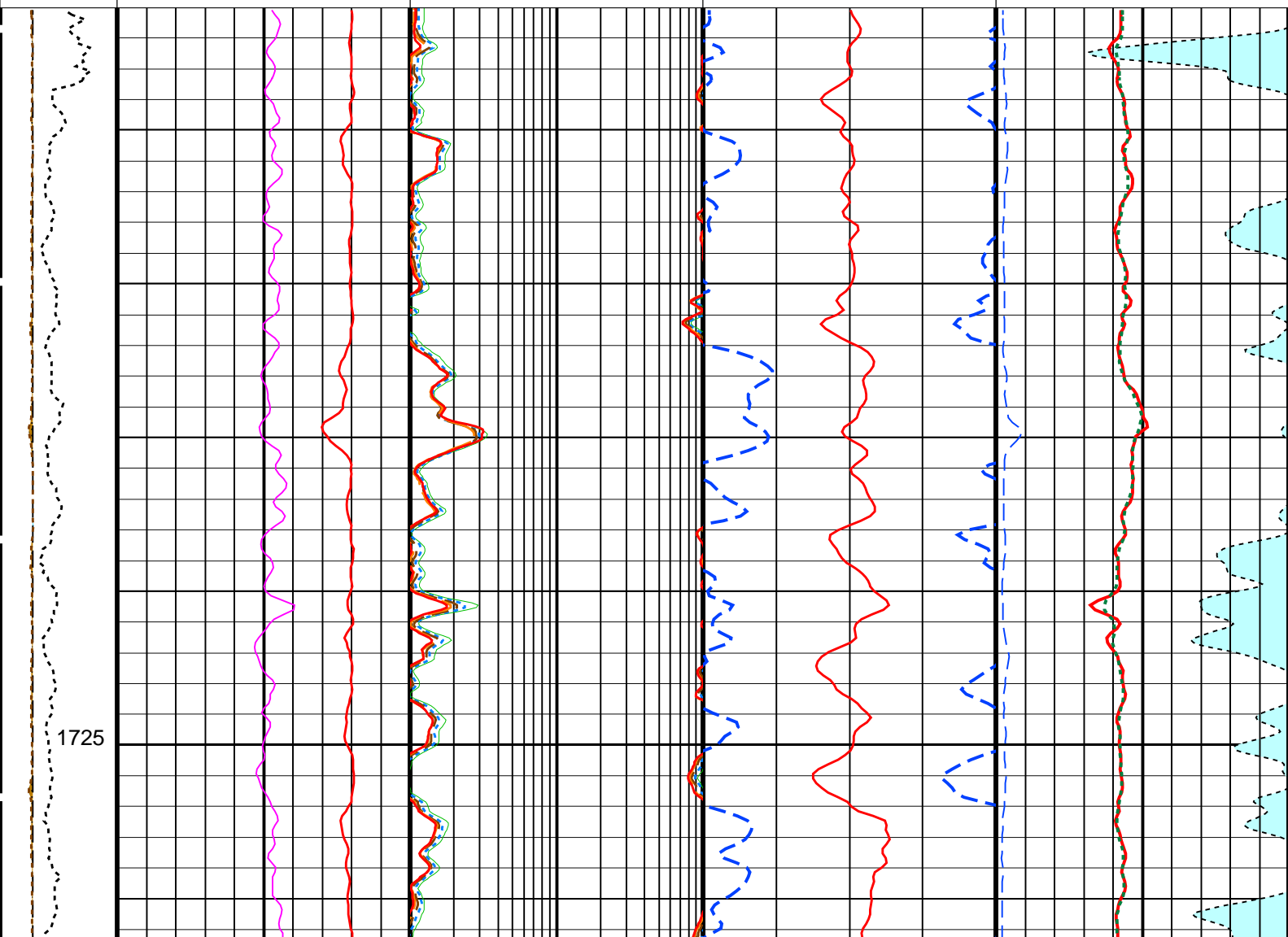
Changed Parameter Summary

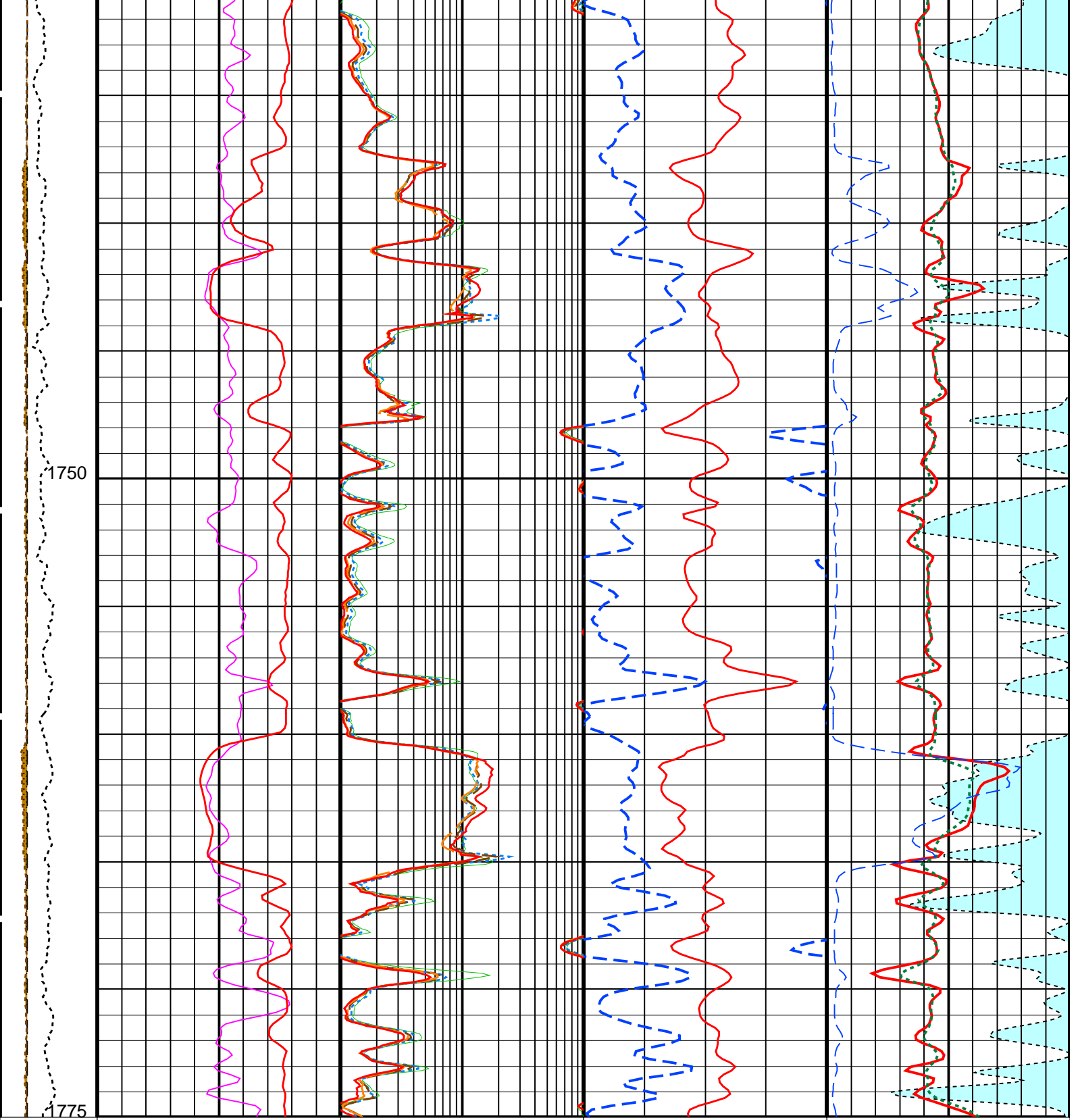
DLIS Name	New Value	Previous Value	Depth & Time
SPDR	0 MV/M	0 MV/M	1775.0 19:01:15

PIP SUMMARY

Time Mark Every 60 S

REVOQUE From CALI to BS		AIT-H 90 Inch Investigation (AHT90) 1 (OHMM) 100		Invasion From AHTD2 to F4
Tension (TENS) (LBF) 0 1000		AIT-H 60 Inch Investigation (AHT60) 1 (OHMM) 100		RWA (RWA) (OHMM) 0 2
CAVERNA From BS to CALI		AIT-H 30 Inch Investigation (AHT30) 1 (OHMM) 100	Gas From DPPI to TNPH	AHF90/AHF10 (LC02) (----) 0 2
Caliper (CALI) 6 (IN) 16	SP (SP) (MV) -80 20	AIT-H 20 Inch Investigation (AHT20) 1 (OHMM) 100	Env.Corr.Thermal Neutron Porosity (TNPH) (V/V) 0.4 0	AHT90/AHT10 (LC01) (----) 0 2
Bit Size (BS) 6 (IN) 16	PhotoElectric Factor (PEF) (----) 0 5	AIT-H 10 Inch Investigation (AHT10) 1 (OHMM) 100	Density Porosity (DPHI) (V/V) 0.4 0	AIT-H Outer Invasion Diameter (AHTD2) (IN) 210 10





Bit Size (BS) 6 (IN) 16	PhotoElectric Factor (PEF) 0 (----) 5	AIT-H 10 Inch Investigation (AHT10) 1 (OHMM) 100	Density Porosity (DPHI) 0.4 (V/V) 0	AIT-H Outer Invasion Diameter (AHTD2) 210 (IN) 10
Caliper (CALI) 6 (IN) 16	SP (SP) -80 (MV) 20	AIT-H 20 Inch Investigation (AHT20) 1 (OHMM) 100	Env. Corr. Thermal Neutron Porosity (TNPH) 0.4 (V/V) 0	AHT90/AHT10 (LC01) 0 (----) 2
CAVERNA From BS to CALI		AIT-H 30 Inch Investigation (AHT30) 1 (OHMM) 100	Gas From DPHI to TNPH	AHF90/AHF10 (LC02) 0 (----) 2
Tension (TENS) (LBF)		AIT-H 60 Inch Investigation (AHT60) 1 (OHMM) 100		RWA (RWA) 0 (OHMM) 2

REVOQUE
From
CALI to
BS

AIT-H 90 Inch Investigation
(AHT90)
1 (OHMM) 100

Invasion
From AHTD2 to F4

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
AIT-H: Array Induction Tool - H		
AHBHM	Array Induction Borehole Correction Mode	2_ComputeStandoff
AHBHV	Array Induction Borehole Correction Code Version Number	880
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 Parameterization 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
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	70 DEGC
FEXP	Form Factor Exponent	2
FNUM	Form Factor Numerator	0.81
FPHI	Form Factor Porosity Source	DPHI
GCSE	Generalized Caliper Selection	CALI
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
ISSBAR	Barite Mud Switch	NOBARITE
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
RTCO	RTCO - Rt Invasion Correction	YES
SHT	Surface Hole Temperature	20 DEGC
SPDR	SP Drift	0 MV/M
SPNV	SP Next Value	-3 MV
LDT-D: Litho Density - D		
BFM	Borehole Fluid Medium	LIQUID
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	70 DEGC
DHC	Density Hole Correction	BS
DPPM	Density Porosity Processing Mode	HIRS
FD	Fluid Density	1 G/C3
GCSE	Generalized Caliper Selection	CALI
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
ISSBAR	Barite Mud Switch	NOBARITE
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
MDEN	Matrix Density	2.65 G/C3
SHT	Surface Hole Temperature	20 DEGC
WMUD	Mud Weight	1.17 G/C3
HILTB-FTB: High resolution Integrated Logging Tool-DTS		
BHFL	Borehole Fluid Type	WATER
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	70 DEGC
BSCO	Borehole Salinity Correction Option	YES
CCCO	Casing & Cement Thickness Correction Option	NO
DPPM	Density Porosity Processing Mode	HIRS
FEXP	Form Factor Exponent	2
FNUM	Form Factor Numerator	0.81
FPHI	Form Factor Porosity Source	DPHI
FSAL	Formation Salinity	-50000 PPM
FSCO	Formation Salinity Correction Option	NO
GCSE	Generalized Caliper Selection	CALI
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
ISSBAR	Barite Mud Switch	NOBARITE
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
MCCO	Mud Cake Correction Option	YES

MWOR	Mud Weight Correction Option		NATU	
PTCO	Pressure/Temperature Correction Option		YES	
SDAT	Standoff Data Source		SOCN	
SHT	Surface Hole Temperature		20	DEGC
SOCN	Standoff Distance		0.125	IN
SOCO	Standoff Correction Option		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		DPHI	
RTCO	RTCO - Rt Invasion Correction		YES	
ALLRES: Basic Resistivity Transforms				
ARTS	AIT Rt Selection (for ALLRES computation)	AITH_TwoResA90		
RTCO	RTCO - Rt Invasion Correction		YES	
HOLEV: Integrated Hole/Cement Volume				
BHS	Borehole Status		OPEN	
BHT	Bottom Hole Temperature (used in calculations)		70	DEGC
GCSE	Generalized Caliper Selection		CALI	
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		
ISSBAR	Barite Mud Switch	NOBARITE		
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE		
SHT	Surface Hole Temperature		20	DEGC
STI: Stuck Tool Indicator				
TDL	Total Depth - Logger		1801.30	M
System and Miscellaneous				
BS	Bit Size		8.750	IN
BSAL	Borehole Salinity		350.00	PPM
CSIZ	Current Casing Size		9.625	IN
CWEI	Casing Weight		32.30	LB/F
DFD	Drilling Fluid Density		1.17	G/C3
DO	Depth Offset for Playback		0.9	M
DORL	Depth Offset for Repeat Analysis		0.0	M
MST	Mud Sample Temperature		7.20	DEGC
PP	Playback Processing	RECOMPUTE		
RMFS	Resistivity of Mud Filtrate Sample		3.8800	OHMM
RW	Resistivity of Connate Water		1.0000	OHMM
TD	Total Depth		1801.3	M
TWS	Temperature of Connate Water Sample		37.78	DEGC

Format: QUICKLOOK Vertical Scale: 1:200 Graphics File Created: 30-Jun-2006 19:01

OP System Version: 14C0-302
MCM

AIT-H	14C0-302	LDT-D	14C0-302
DTA-A	14C0-302	HILTB-FTB	14C0-302
DTC-H	14C0-302		

Input DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_024LUP	FN:23	PRODUCER	30-Jun-2006 08:23	1805.0 M	1626.4 M
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Output DLIS Files

DEFAULT	AIT_LDL_TLD_MCFL_091PUP	FN:48	PRODUCER	30-Jun-2006 19:01		
CUST1	AIT_LDL_TLD_MCFL_091PUC	FN:49	CUSTOMER	30-Jun-2006 19:01		
CUST2	AIT_LDL_TLD_MCFL_091PUC	FN:50	CUSTOMER	30-Jun-2006 19:01		

COMPANIA:	YPF S.A.	PRIMERA LECTURA	1798.9 m
		PROFUNDIDAD PERFIL	1801.3 m
POZO:	YPF.Ch.EA-695	PROF. PERFORADOR	1800 m
CAMPO:	EL ALBA	BUJE DE VASTAGO	666.45 m
PROVINCIA:	CHUBUT	MESA ROTATIVA	666.15 m
PAIS:	ARGENTINA	NIVEL TERRENO	661.9 m

QUICKLOOK

ESCALA: 1/200



EA-695

Solicitud Perfilaje Pozo entubado
Registrar Neutrón de correlación en los tramos:

1780/ 950 mbbp

Registrar CBL-VDL desde fondo (1780m) continuo hasta 950m.
Registrar tope de cemento y cañería libre 30 m.

Fondo mínimo 1780m.

Casing: 51/2"

Zapato: 1797.83mbbp

Collar: 1789.48 mbbp

Vinculó casing 19.30hs Día 30 de Junio 2006.

Client: YPF S.A.
Field: EL ALBA
Well: YPF.Ch.EA-695
Run date: 29-Jun-2006

Tool: MRPS_1-
Probe Type: Conventional probe
Gauge: BQP1
Gauge Resolution: 0.010 psi

Test	File	Depth M	TVD M	Drawdown Mobility MD/CP	Mud Pressure		Last read build-up Pres PSIA	Formation Pressure PSIA	Test Type
					Before PSIA	After PSIA			
1	44	1294.27	1294.27	0.03	2185.85	2066.68	1281.31	1281.31	Volumetric Pretest
3	45	1668.28	1668.28	166.95	2868.82	2858.71	1567.39	1567.39	Volumetric Pretest
5	47	1738.32	1738.32		2882.21	2873.56	69.14	69.14	Dry Test
7	48	1742.46	1742.46	2.39	2871.06	2858.36	1602.04	1602.04	Volumetric Pretest
12	49	1763.98	1763.98	2.55	2908.29	2893.98	1745.21	1745.21	Volumetric Pretest
2	33	1120.99	1120.99	1.12	1863.36	1842.51	898.50	898.50	Volumetric Pretest
5	34	1138.48	1138.48	130.73	1871.36	1846.48	736.12	736.12	Volumetric Pretest
6	35	1188.27	1188.27	1.23	1942.75	1928.67	897.51	897.51	Volumetric Pretest

DATOS A LLENAR				
			CARGAR DATOS	
		POZO	EA-695	
		BATERIA		
		EQUIPO	PI 222	
		FECHA	05/07/2006	
		RUBRO	TERMINACION	
		COSTO OBJETIVO	65.000	
		NOMBRE DEL PROYECTO		
		N°DE GRAFO		
		PEP:	RS1EC.6E07.53.P0005	
		ZONA	EL ALBA	
		FLUIDO DE TRABAJO	AGUA DE REC. SEC.	
		FINALIZO PERFORACION	30 de junio de 2006	
		ULTIMA INTERVENCION		
COORDENADAS				
		X	4,949,914.00	4.837.999,00
		Y	2,584,939.00	2.606.340,00
		Z	661,00	286,38
COMPANIAS DE SERVICIO				
		CABLE	GEOLOG	
		TORRE	PRIDE INT.	
		CEMENTACION	SCHL	
		ESTIMULACION	SCHL	
		MOTOR DE FONDO	CHRISTENSEN RODER	
		COILED TUBING	-	
PARA PUNZAR				
		CAÑÓN Ø	Cañón Ø 4"	4" ó 5"
		TIROS POR PIE	4 TxP 32 Grs	4
CASING				Ejemplos
		EN BOCA DE POZO Ø Y mts.	5 1/2"	7" a 23
		DIAMETRO Y LIBRAJE	5 1/2" 14 #	5-1/2" 15,5
5 1/2"	12,50	22,5	1797,83	
6 5/8"	18,54	0,0		
7"	20,60	0,0		
9 5/8"	39,40	13,8	350,44	
		Total de m³+5	← NO TOCAR "PARA USO DEL BACTERICIDA"	
		COLLAR DIFERENCIAL	1.789,48	
		ZAPATO	1.797,83	
		PROFUNDIDAD FINAL	1.801,30	
INSTALACION FINAL				
		DEL POZO		
MATERIAL DE BOMBEO				
		DEL POZO		
HERRAMIENTA A BAJAR				
		COLOCAR TIPO DE HTA.Y Ø	Fresa Ø 120 mm	
		CALIBRAR HASTA	-	
		HERMETICIDAD DEL CSG DESDE	-	



M. BEHR

05/07/2006

DIVISION REGIONAL SUR
UNIDAD ECONOMICA CHUBUT - CAÑADON SECO
DISTRITO ZONA CENTRAL

PROGRAMA OPERATIVO del POZO : **EA-695**

SUBREGION : **CH** ZONA : **EL ALBA** BAT.

RUBRO: **TERMINACION**

PROYECTO:

COSTO OBJETIVO: **U\$S 65.000**

COSTO ESTIMADO: **U\$S**

DIAS ESTIMADOS: **8,25**

FLUIDO DE REPARACION: **AGUA DE REC. SEC.**

EQUIPO : **PI 222** CANTIDAD: **36,3 m³**

PEP: RS1EC.6E07.53.P0005

COMPAÑIAS ASIGNADAS:

CABLE:	GEOLOG
TORRE:	PRIDE INT.
CEMENTACION:	SCHL
ESTIMULACION:	SCHL
MOTOR DE FONDO:	CHRISTENSEN RODER
COILED TUBING:	-

FINALIZO PERFORACION : **30 de junio de 2006**

ULTIMA INTERVENCION:

OBSERVACIONES:

COORDENADAS:

X: 4,949,914.00

Y: 2,584,939.00

COTA: **Z: 661,00**

Altura mesa Rotary: 3,5 m

Elevación mesa Rotary: - m

UNIDAD ECONOMICA CHUBUT-CDON. SECO
DISTRITO ZONA CENTRAL

X: 4,949,914.00 Z: 661,00
Y: 2,584,939.00

PROGRAMA OPERATIVO : **TERMINACION**

POZO : **EA-695** ZONA : **EL ALBA** SUBREGION : **CH** BAT.

FLUIDO DE REPARACION: **AGUA DE REC. SEC.** CANTIDAD: **36,3** m³

INSTALACION FINAL:

INSTALACION BBEO:

EQUIPO: **PI 222**

COMPAÑIA WIRE LINE:

GEOLOG

N° 5 1/2" 14 #
CAPA 5 1/2"

PROGRAMA OPERATIVO



1º) Montar equipo completo y BOP de acuerdo al manual de procedimiento. Probar funcionamiento hidráulico de BOP.- Probar líneas c/2500 PSI. Llenar pozo con fluido de reparación: **Agua de Rec. Sec.**
Armar línea de venteo de gas.

2º) La Cía. de Cable punzará y repunzará con cañón de 4" 32 grs (0-90º) las siguientes capas:

INDUCCION

- A) 1760,5/62,0 (0-180º)
- B) 1741,5/43,0
- C) 1539,5/42,0
- D) 1510,5/12,0
- E) 1293,0/95,5
- F) 1180,0/81,5
- G) 1138,0/39,5
- H) 1105,5/07,0

3º) Bajar TPN/PKR con c/b 2-7/8" J-55. Ensayar las capas indicadas con las letras: **A, B, C, D, E, F, G y H.** Estabilizando Caudal, Nivel e Análisis. **En las capas A, B, C, D, E y H, probar admisión previo al ensayo.**

NOTA: De las capas con aporte de fluido tomar muestras para su análisis; en caso de ser gas medir presiones y tomar muestra.

4º) De acuerdo al resultado los ensayos se determinará programa a seguir.

NOTA: Preveer Fractura

Collar: 1789,48
Zto: 1797,83
Fdo: 1801,30

RECOMENDACIONES:

AL FINALIZAR EL POZO DEBERAN PRESENTAR EL ESQUEMA DE LA INSTALACION FINAL (SKETCHIT) SIENDO REQUISITO PARA CERTIFICAR, LA NO PRESENTACION DEL MISMO SE TENDRA EN CUENTA PARA LA EVALUACION CORRESPONDIENTE.-

CUANDO OCURRA CUALQUIER TIPO DE ACCIDENTE SE DEBE COMUNICAE EN FORMA INMEDIATA (Telefónicamente) AL JEFE DE DISTRITO, DONDE OCURRA EL MISMO.

DURANTE LA ETAPA DE TRANSPORTE DEL EQUIPO PROCEDER: EN CASO DE EXISTIR LINEAS ELECTRICAS EN EL RECORRIDO CUALQUIERA SEA LA ALTURA DE LAS MISMAS DAR AVISO AL SECTOR ENERGIA DE REPSOL-YPF POR INTERMEDIO DE COORDINACION DE PRODUCCION TELEF: 4361 - 4365 Y FAX 4363.-L73

QUEDA TERMINANTEMENTE PROHIBIDO EL USO DE LLAVES STILSON PARA REALIZAR AJUSTES DE ENROSQUES Y DESENROSQUES DE TUBULARES EN BOCA DE POZO LOS MISMOS SE HARAN CON LLAVES DE POTENCIA.-

SE LES RECUERDA QUE TODA PAG (SIMPLE O DOBLE) USADA O NUEVA DEBERA CONTAR CON NIPLES DE ALTA PRESION - ESPESOR ENTRE 8 y 9 mm CON ROSCA Ø 2" LP DE'11,5 FILETES POR PULG. DE NO CONTAR CON ESTOS ELEMENTOS NO ARMAR LAS MISMAS.-

NOTA : TOMAR PRECAUCIONES PARA EVITAR DERRAMES DE FLUIDOS. AVISAR URGENTE A LA INSPECCION. ADEMAS SE INDICA QUE SE DEBE COMUNICAR A LA MAYOR BREVEDAD POSIBLE TODAS LAS NOVEDADES QUE REVISTAN EL CARACTER DE ACCIDENTES DE PERSONAL.-

ORDEN : DE TODOS LOS ENSAYOS CON INSTALACION FINAL SE DEBERA TOMAR UNA MUESTRA, DE LA ULTIMA HORA DE ENSAYO, DE TRES LITROS Y ENVIARLA DEBIDAMENTE IDENTIFICADA AL LABORATORIO EPSILON Km3, A EFECTOS DE REALIZAR EL ENSAYO DE VISCOSIDAD A TRES TEMPERATURAS, PUNTO DE ESCURRIMIENTO Y TENOR PARAFINICO.-

TRANSCRIPCION DE:

MEMORANDUM

A: COMPAÑIAS DE SERVICIOS

DE: JEFE DE AREA DE OPERACIONES DE PRODUCCION REG. CDRO. RVDA.

SE RECUERDA A ESA COMPAÑIA QUE EN VIRTUD DE LO DISPUESTO POR LAS RESOLUCIONES S.E Nª 105/92 Y 252/93 QUEDA EXPRESAMENTE PROHIBIDO DESCARGAR CRUDO O DERIVADOS DE DE HIDROCARBUROS A LAS PILETAS NATURALES DE LOS POZOS. CUANDO UNA EMERGENCIA OPERATIVA GENERE LA CONTAMINACION DE UNA PILETA, ESA COMPAÑIA DEBERA SUBSANAR EL PROBLEMA A LA BREVEDAD.-

LA NO OBSERVANCIA DE ESTAS NORMAS,GENERARA LA INTERVENCION DE YPF S.A. PARA REPARAR LA CONTAMINACION CON CARGO ESA CIA. Y LA APLICACION DE LAS MULTAS CORRESPONDIENTES.-

RESPONSABLE

LUCAS S. MORENO

PRESUPUESTO POZO

EA-695

PEP: RS1EC.6E07.53.P0005

CAN.		ITEM	HS.	\$	U\$S	DESCRIPCION DE MANIOBRAS	
Unidad	1	3		10,00	2440,63	528,28	DTM Equipo completo, Colocar BOP.
Unidad	0	6		0,00	0,00	0,00	
Horas	100	1		100,00	19525,52	4226,25	Bajar TPN/PKR y realiza 8 ensayos . Prueba admisión en 5 capas.
Horas	6	1		6,00	1171,53	253,58	Movimiento por cambio de zona.
Horas	4	1		4,00	781,02	169,05	Fractura una capa.
Horas	12	1		12,00	2343,06	507,15	Reensaya zona fracturada.
Horas	24	1		24,00	4686,12	1014,30	Bajar instalación final.
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	0	1		0,00	0,00	0,00	
Horas	10	2A		10,00	1757,15	380,36	Stand By Wireline
Horas	6	2A		6,00	1054,29	228,22	Stand By Cía. de Fractura.
Horas	6	2A		6,00	1054,29	228,22	Stand By Frague de arena.
Horas	0	2A		0,00	0,00	0,00	Stand By
Horas	8	2A		8,00	1405,72	304,29	Stand by por reuniones de seguridad, carga y descarga de mat.
Horas	0	2A		0,00	0,00	0,00	
Horas	0	2B		0,00	0,00	0,00	Stand by sin personal.
Horas	12	2C		12,00	1522,98	329,66	Equipo parado por inclemencias de tiempo.-
Total Horas incl.DTM		198,00					
Total de Días		8,25					
				RESUMEN			
		ITEM	CANTIDAD	UNI COSTO	Tarifa Nueva RTP (\$1,1310) (U\$S 0.2450)		
		1 (Opert.Normal)	146,00	25.185,00	\$28.507,25	U\$S 6170,33	
		2A (SB c/Pers.)	30,00	4.657,50	\$5.271,45	U\$S 1141,09	
		2B (SB s/Pers.)	0,00	0,00	\$0,00	U\$S 0,00	
		2C (Factor Clima)	12,00	1.345,56	\$1.522,98	U\$S 329,66	
		3 (DTM)	10,00	2.156,25	\$2.440,63	U\$S 528,28	
		3B (C.Sólidas)	0,28	2.938,80	\$3.326,38	U\$S 720,00	
		3C (Carg.y Desc.)	0,28	715,00	\$809,30	U\$S 175,18	
		4B (C.Líquidas)	0,28	2.137,31	\$2.419,19	U\$S 523,64	
		5 (Pileta Ecol.)	8,00	120,00	\$135,80	U\$S 29,40	
		5A (Tpte.pil.ecol.)	1,00	110,00	\$124,51	U\$S 26,95	
		6 (Conj.DSK-Pieza)	0,00	0,00	\$0,00	U\$S 0,00	
		7 (Aumento comb.)	0,00	0,00	\$0,00	U\$S 0,00	
		Subtotal	198,00	39.365,41	\$44.557,48	U\$S 9.644,53	
		Wire	Perfil N Corr.+N F	0,00	\$0,00	U\$S 0,00	
			Punzado	0,00	\$0,00	U\$S 0,00	
		Line	Fijado de Tapón	0,00	\$0,00	U\$S 0,00	
		Cementación		0,00	\$0,00	U\$S 0,00	
		Fractura Hidráulica		25.000,00	\$0,00	U\$S 25000,00	
		Htas. de fractura		0,00	\$0,00	U\$S 0,00	
		Estimulación ácida		0,00	\$0,00	U\$S 0,00	
		Bombeo - Prueba de admisión		0,00	\$0,00	U\$S 0,00	
		Fresa		600,00	\$453,04	U\$S 288,00	
		Válvula Implosora		0,00	\$0,00	U\$S 0,00	
		Hot-Oil + Camión chupa		0,00	\$0,00	U\$S 0,00	
		Camión Chupa		0,00	\$0,00	U\$S 0,00	
		Transporte Gasoil		0,00	\$0,00	U\$S 0,00	
		Coiled Tubing		0,00	\$0,00	U\$S 0,00	
		Motor de fondo		2.800,00	\$840,00	U\$S 1960,00	
		Gas-Oil(\$104xm3)		0,00	\$0,00	U\$S 0,00	
		Alquiler de Radio		0,00	\$0,00	U\$S 0,00	
		Limpieza de Locación		400,00	\$240,00	U\$S 160,00	
		Subtotal		28.800,00	\$1.533,04	U\$S 27.408,00	
		TOTAL		68.165,41	\$46.090,52	U\$S 37.052,53	
		OBJETIVO (U\$S)		65.000	PRESUPUESTO		
		Capas punzadas		8	TOTAL EN U\$S		52415,88
		Profundidad		1.789,48	Tipo de cambio:		0,33333
		Nº de Pruebas		6			
		Nº de Ensayos		8			

POZO:	EA-695	OBJETO:	TERMINACION	PEP:	RS1EC.6E07.53.P0005
EQUIPO:	PI 222	Est.Actual :		PROXIMO POZO:	A CONFIRMAR
		PROYECTO:		COSTO OBJETIVO U\$S:	65000

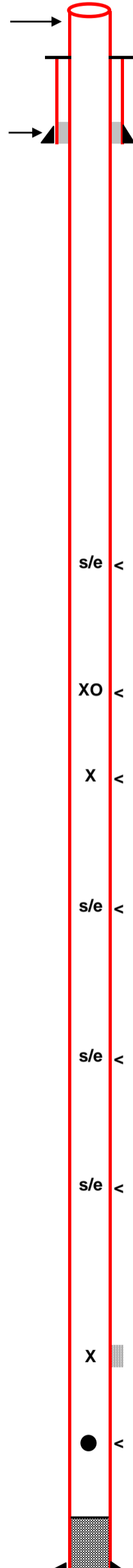
Inicio:	11/07/2006
Termino:	19/07/2006

CABLE	Cta	FRAC	Acido	M.Fdo.	PRESUPUESTO \$:	-	
GEOLOG	SCHL	SCHL	SCHL	Christ.	PRESUPUESTO U\$S:		
FLUIDO:					Agua de Rec. Sec.	SALINIDAD:	g/l

Capa N° **NEUTRÓN** INDUCCIÓN

Ø5,1/2"(14#)

Ø9,5/8": 350 mts



CIII s/e < 1105,5/07,0 } H S/E

CIII XO < 1138,0/39,5 } G 2320 l/h. ASFc/ARP N: 925 mts (AS: 100 % - Sal: 4,6 %° - PH: 8 - 25°C)

CIII X < 1180,0/81,5 } F 120 l/h. ASF N: 1126 mts (AS: 100 % - Sal: 4,6 %° - PH: 8 - 20°C)

CIII s/e < 1293,0/95,5 } E S/E

CIII s/e < 1510,5/12,0 } D S/E

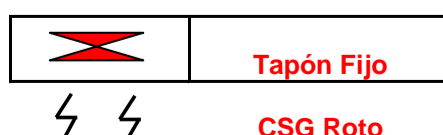
CIII s/e < 1539,5/42,0 } C S/E

CIV X █ 1741,5/43,0 } B Rompe Fm. con 2150 psi - Admite con 2150 psi: 174 LxM.
2400 l/h. ASF N: 1300 mts (AS: 100 % - Sal: 0,8 %° - PH: 8 - 30°C)
Cemntó a presión

CIV ● < 1760,5/62,0 } A Rompe Fm. con 2700 psi - Admite con 2000 psi: 440 LxM.
580 l/h. PF N: 1549 mts (AS: 10 % - D: 0,900 - Sal: 4,2 %° - PH: 7 - 20°C)

Collar: 1.789,48
Zap.: 1.797,83
PF: 1801,30

REFERENCIAS



Transporta equipo del pozo EA-691 al EA-691 (10 kms). Monta equipo. Prueba líneas y cierres de BOP: OK. Ingresa a locación y monta Cía. GEOLOG. Punza según programa (1760,5/62 - 1741,5/1539,5/42 - 1510,5/12 - 1293/95,5 - 1180/81,5 - 1138/39,5 - 1105,5/07 mts). Baja TBG c/Fresa de para ampliar cámara por debajo del primer punzado. Profundiza hasta 1785,33 mts. Circula pozo. Saca herramienta de rotación. Baja conunto de TPN/PKR. Ensayo la zona A. Prueba admisión. Ensayo A - B - C - D - E - F - G - H.

Cia. BJ cementó zona 1741,5/43,0, rota cemento y prueba hermeticidad positivo.-

Bajó instalación de tbg :

116 tbg Ø2.7/8" + Ancla: 1119m + 66 tbg + NAC: 1756 m + 1 tbg + C/pasador: 1766m

Bajó instalación de B/B:

Vtgo.+ 62 v/bØ1" + 66 v/bØ7/8" + 88 v/bØ3/4" + 12 b/PØ1.1/2" + bba 1756m

Desmonta equipo

Transporta equipo al pozo Gbk - 708

Inst. de tbg:

116 tbg Ø2.7/8" + Ancla:1119m + 66 tbg + NAC: 1756m + 1 tbg + C/P.: 1766m

Inst. de B/B:

Vtgo.+ 62 v/bØ1" + 66 v/bØ7/8" + 88 v/bØ3/4" + 12 b/PØ1.1/2" + bba 1756m