

[illegible]

Company: LAKES OIL N.L

Well: Wombat 1
Field: Wildcat
Rig: Hunt #2

Country: Australia

Hunt #2
Wildcat
Easting 513889
Wombat 1
Company: LAKES OIL N.L

CBL-VDL-GR-CC
Cement Evaluation
1:200 Scale

Easting 513889 Northing 5754818 PEP 157, Victoria	Elev.: K.B. 14.65 m G.L. 11 m D.F.
Permanent Datum: _____ Log Measured From: Kelly Bushing _____ Drilling Measured From: Kelly Bushing _____	Elev.: 11 m 3.6 m above Perm. Datum

State: Victoria	Max. Well Deviation 2.5 deg	Longitude 147° 09' 32" E	Latitude 38° 21' 16" S
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Logging Date 27-Dec-2003

Run Number 1

Depth Driller 1775 m

Schlumberger Depth 1753.3 m

Bottom Log Interval 1732 m

Top Log Interval 538 m

Casing Fluid Type KCL PHPA Polymer

Salinity 35000 ppm

Density 1.22 g/cm3

Fluid Level

BIT/CASING/TUBING STRING

Bit Size 8.500 in

From 1365.5 m

To 1753.3 m

Casing/Tubing Size 7.000 in

Weight 36 lbm/ft

Grade K-55

From 1365.5 m

To 1753.3 m

Maximum Recorded Temperatures 64 degC 64

Logger On Bottom 27-Dec-2003 18:00

Unit Number 3134 QEA

Recorded By Neil Van Geest

Witnessed By Peter Dwyer

Run 1Run 2Run 3

Oil Density
Water Salinity 35000 ppm
Gas Gravity
Bo

Bw
1/Bg
Bubble Point Pressure
Bubble Point Temperature

Solution GOR
Maximum Deviation 2.5 deg

CEMENTING DATA
Primary/Squeeze Primary

Casing String No
Lead Cement Type Adelaide Class A

Volume
Density 1.89325 g/cm3

Water Loss 380 cm3
Additives

Tail Cement Type
Volume
Density
Water Loss
Additives

Expected Cement Top 1200 m

Logging Date

Run Number

Depth Driller

Schlumberger Depth

Bottom Log Interval

Top Log Interval

Casing Fluid Type

Salinity

Density

Fluid Level

BIT/CASING/TUBING STRING

Bit Size

From

To

Casing/Tubing Size

Weight

Grade

From

To

Maximum Recorded Temperatures

Logger On Bottom

Unit Number

Recorded By

Witnessed By

DEPTH SUMMARY LISTING

Date Created: 27-DEC-2003 21:08:56

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	7-42V-XS
Serial Number:	2714	Serial Number:	2338	Serial Number:	73069
Calibration Date:	26-Feb-2003	Calibration Date:	20-Nov-2003	Length:	4235.50 M
Calibrator Serial Number:	-999	Calibrator Serial Number:	1050	Conveyance Method: Wireline Rig Type: LAND	
Calibration Cable Type:	7-42V-XS	Calibration Gain:	0.98		
Wheel Correction 1:	-9	Calibration Offset:	194.00		
Wheel Correction 2:	-7				

Depth Control Parameters

Log Sequence:	Subsequent Trip To the Well
Reference Log Name:	HALS-BHC-PEX
Reference Log Run Number:	1
Reference Log Date:	25-Dec-2003
Subsequent Trip Down Log Correction:	0.60 M

Depth Control Remarks

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

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1	OTHER SERVICES2
OS1:	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
1. The expected transit time (ETT) for 7 inch casing is 270 us.	
2. The expected free pipe amplitude for 7 inch casing is 61 mV.	
3. The expected transit time (ETT) for 7 inch casing is 315 us.	
4. The expected free pipe amplitude for 9.625 inch casing is 52 mV.	
5. CBL normalisation performed in free pipe from 1375 - 1360m.	
6. CBAF value used was 0.7922.	

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RUN 1 SERVICE ORDER #: QEA032815 PROGRAM VERSION: 11C0-305 FLUID LEVEL:			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

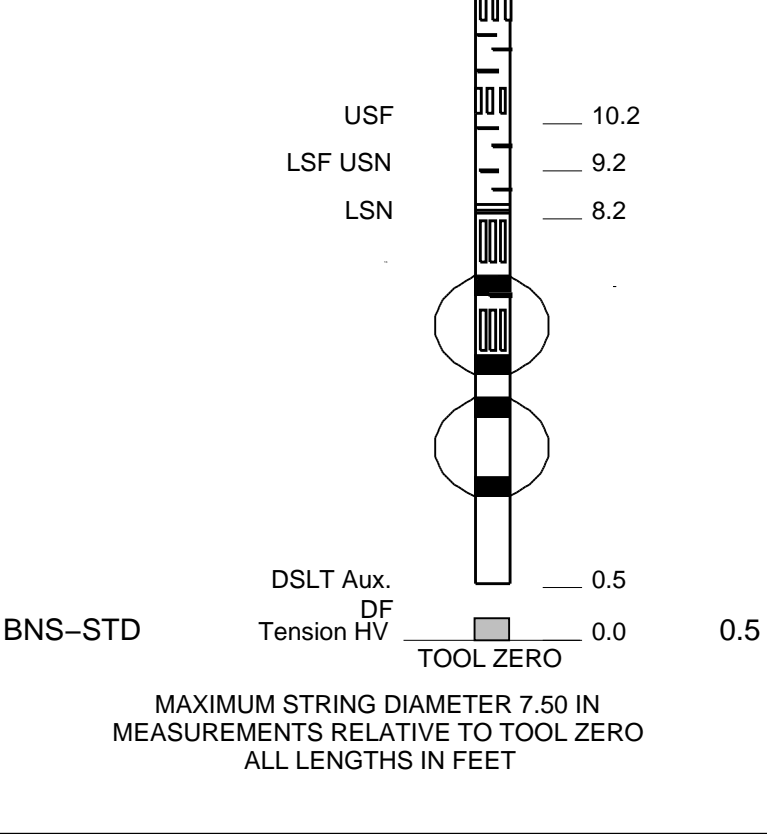
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100	1	1

SURFACE EQUIPMENT GSR-U/Y WITM (DTS)-A	
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DOWNHOLE EQUIPMENT

DOWNHOLE EQUIPMENT			
LEH-QT LEH-QT			34.1
CAL-Y CAL-Y	CCL	30.2	31.2
DTC-H ECH-KC DTCH0-A DTCH1-A	CTEM TelStatus ToolStatu	26.8 24.7	27.7
SGT-N SGH-K SGC-TB SGD-TAA	Gamma Ray	23.8	24.7
DSLT-H DSLH-H ECH-KH SLS-C			19.2



Cement Bond Log 1:200 Scale
9.625 inch Casing 814 – 538 m

MAXIS Field Log

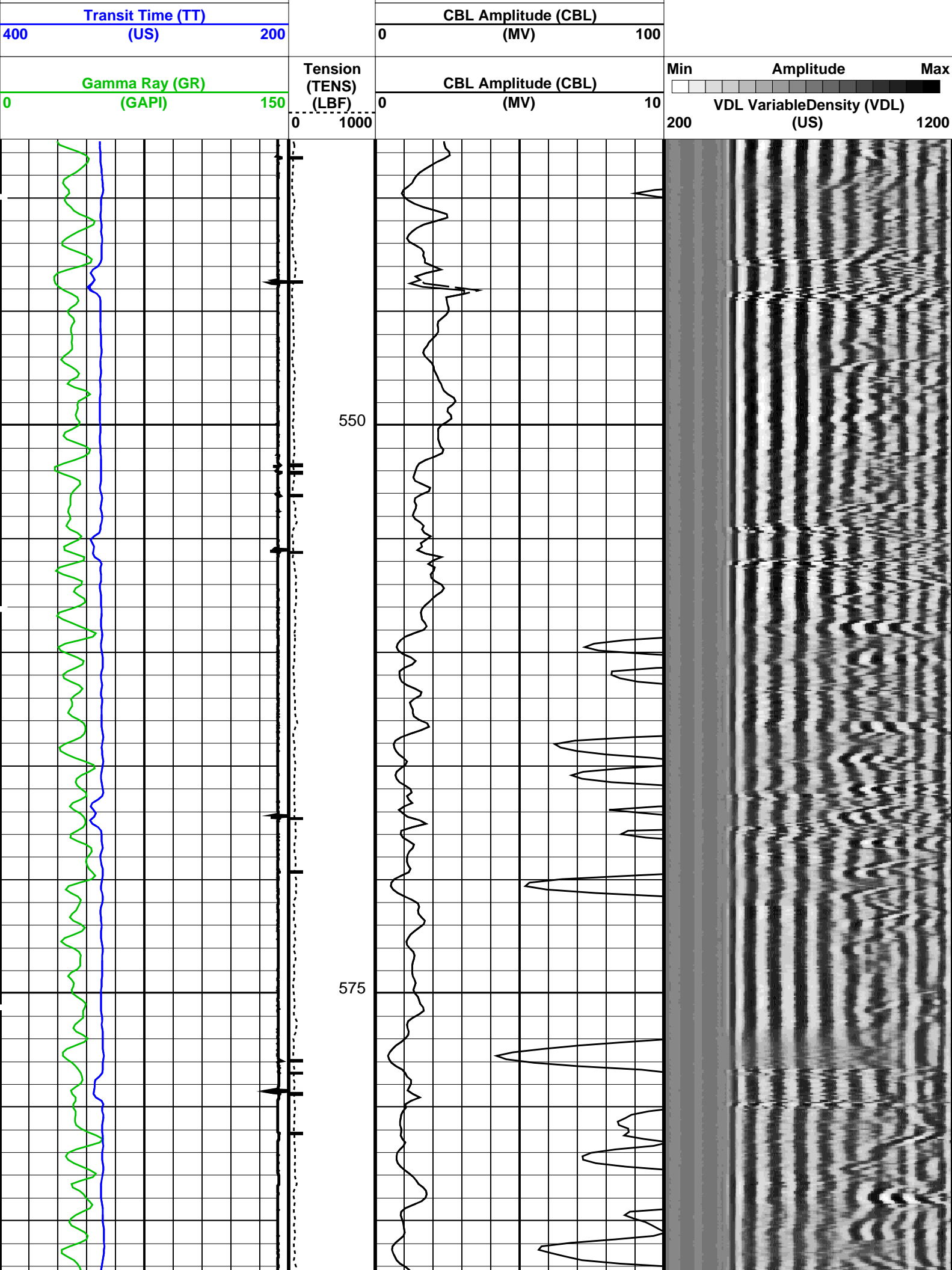
Company: LAKES OIL N.L. Well: Wombat 1

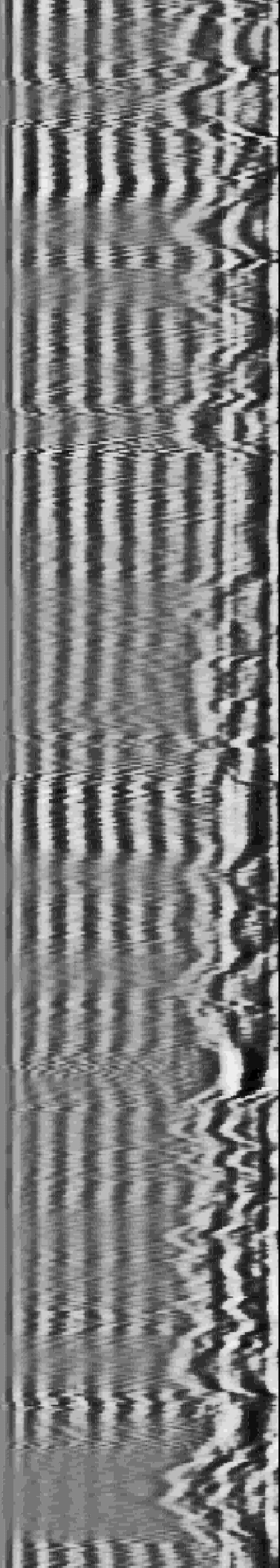
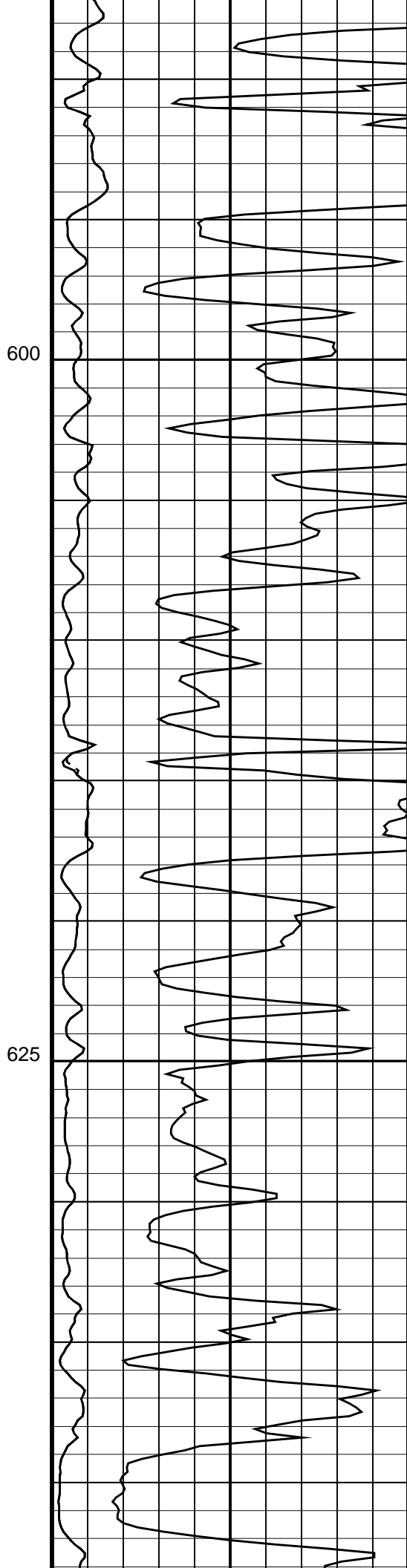
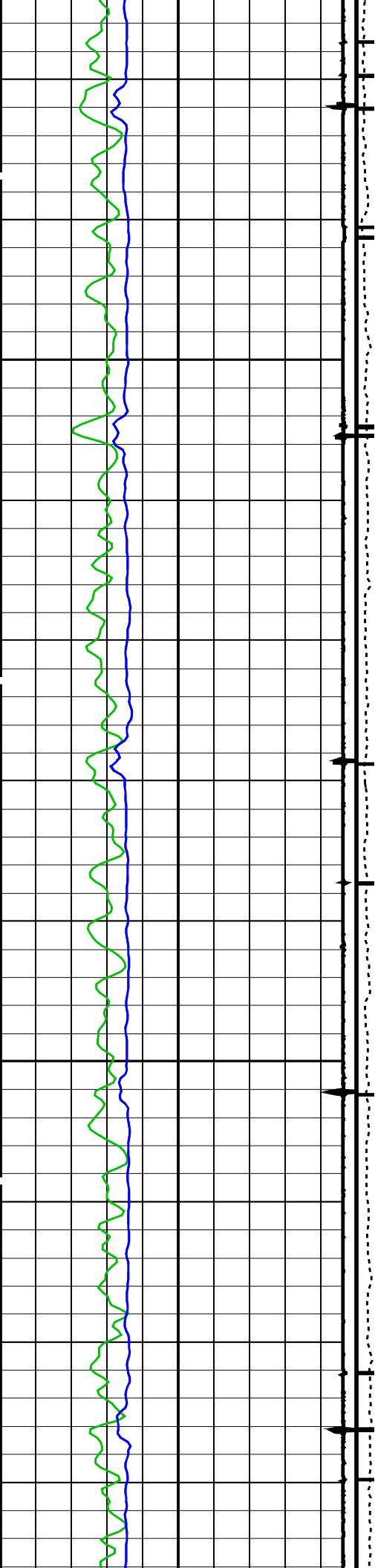
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Output DLIS Files						
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OP System Version: 11C0-305						
MCM						
DSLT-H	OP11-KP1	SGT-N	11C0-305			
DTC-H	11C0-305	CAL-Y	11C0-305			

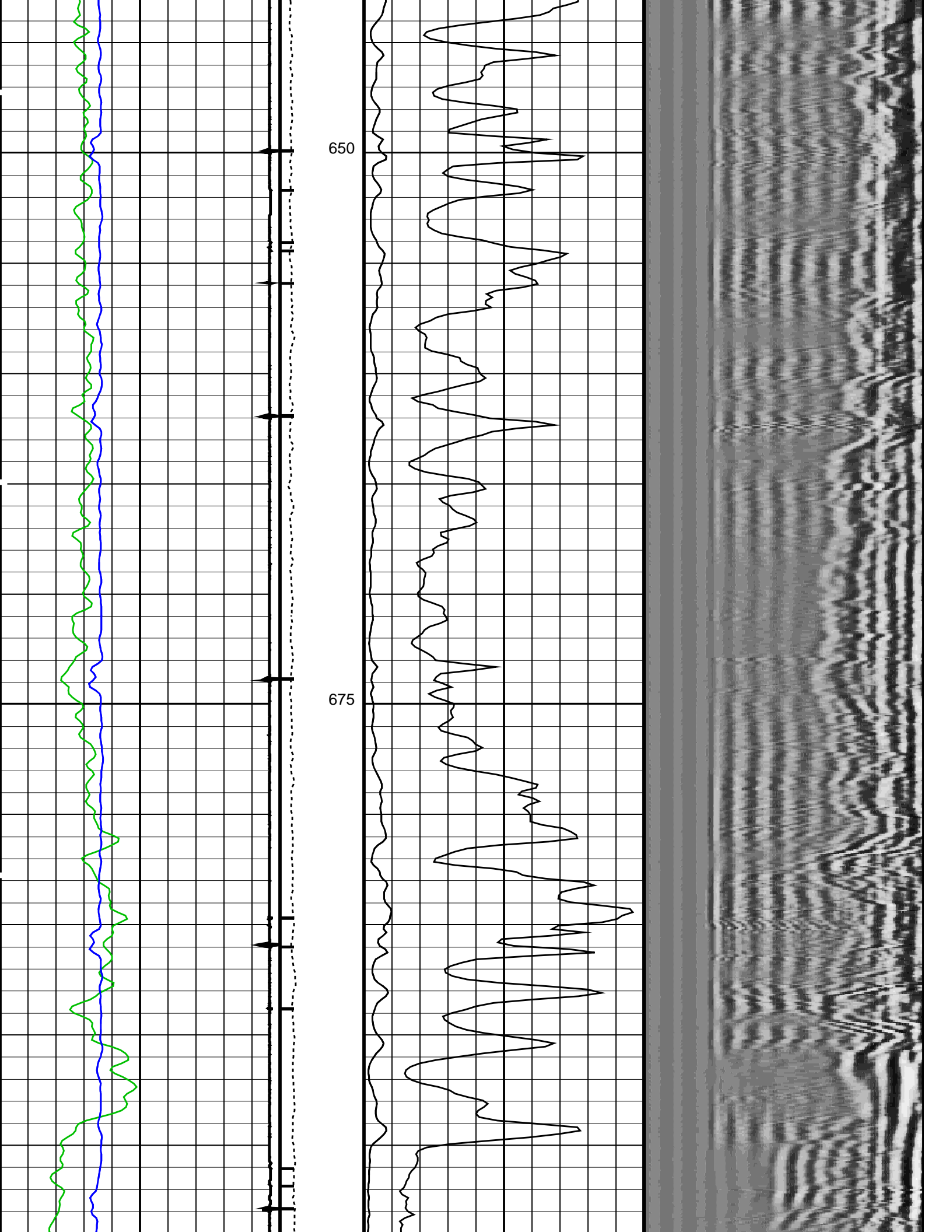
PIP SUMMARY
Casing Collars
Time Mark Every 60 S

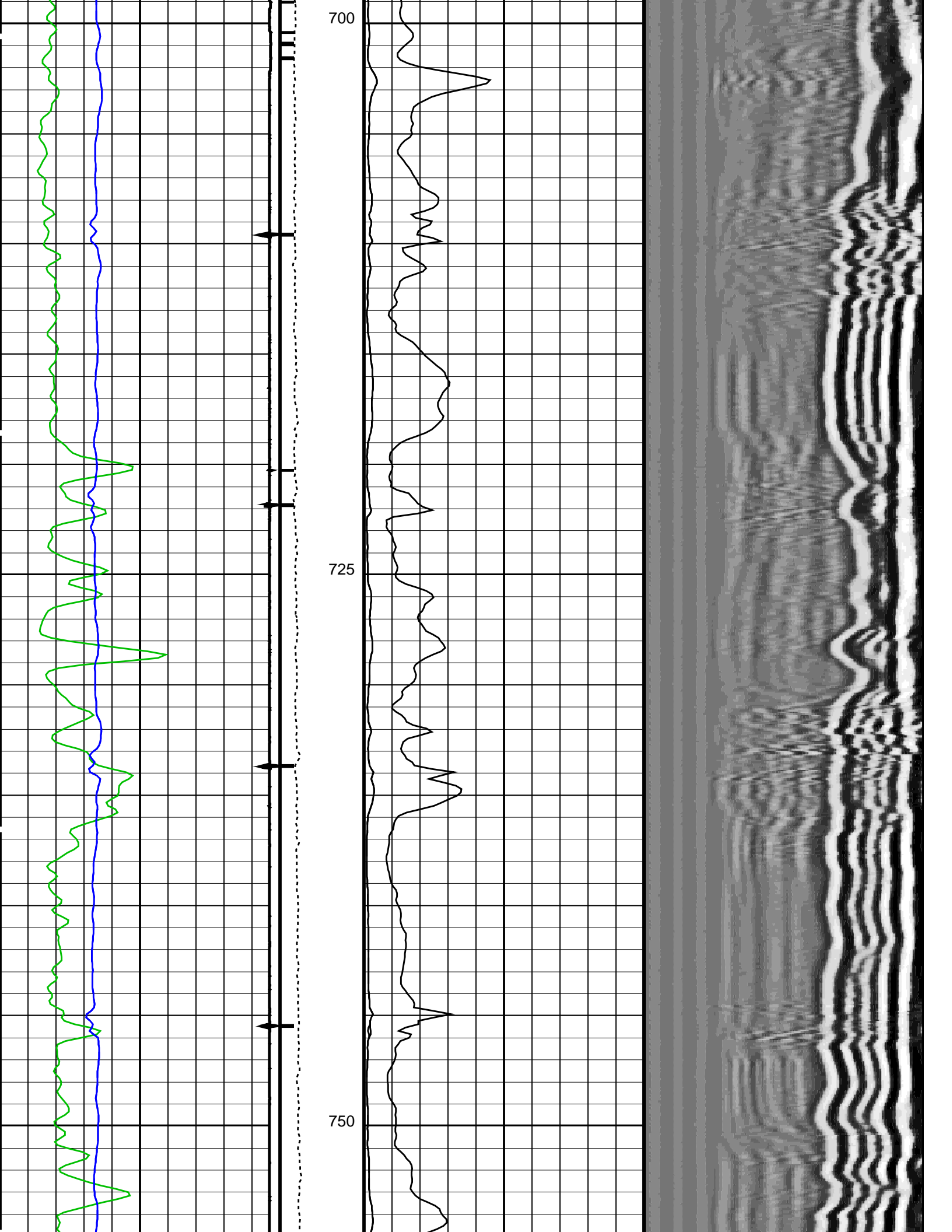
CasCollar From CCL to T1		
Casing Collar Locator (CCL)		
-19	(----	1
Transit Time (Sliding Gate) (TTSL)		
400	(US)	200

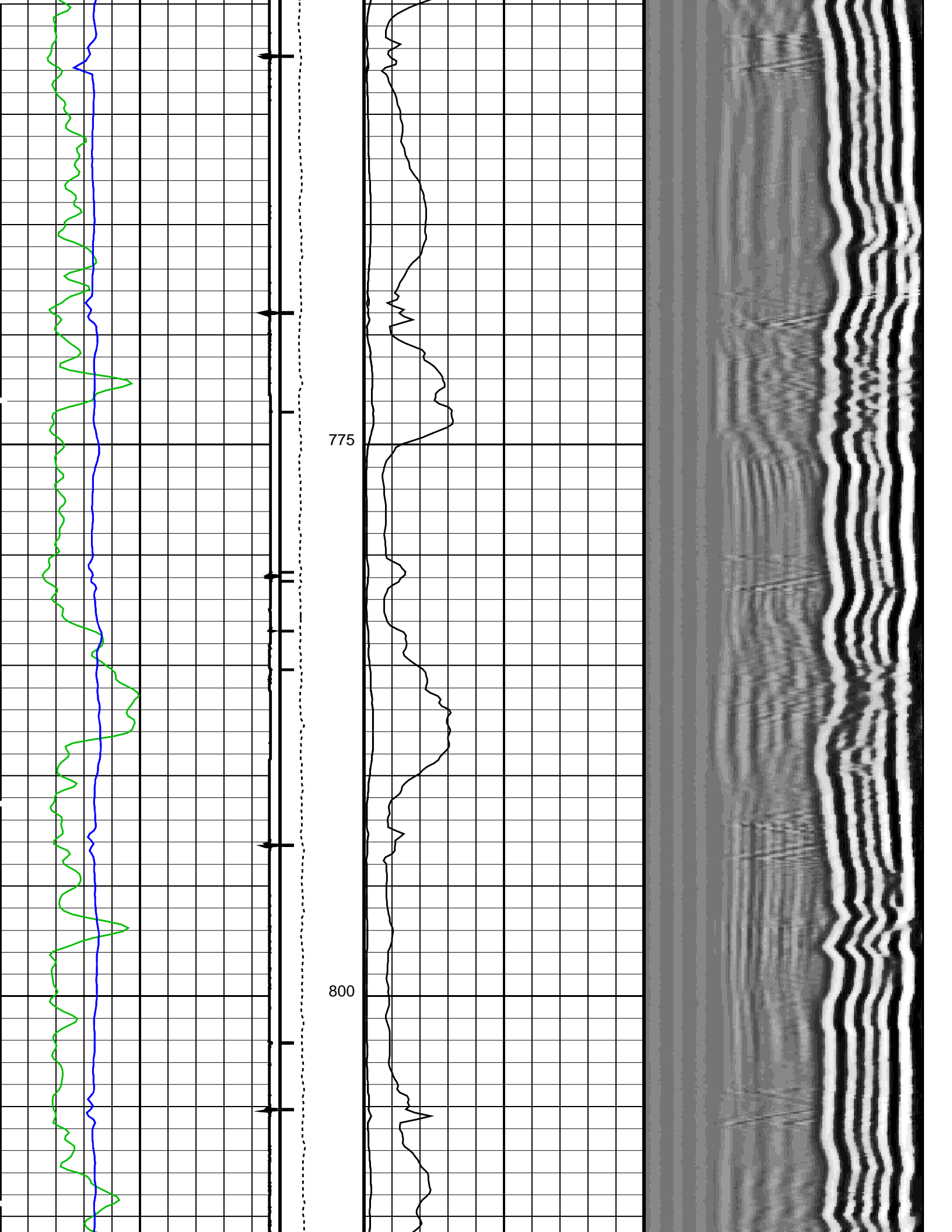
CBL Amplitude (Sliding Gate) (CBSL)		
0	(MV)	100

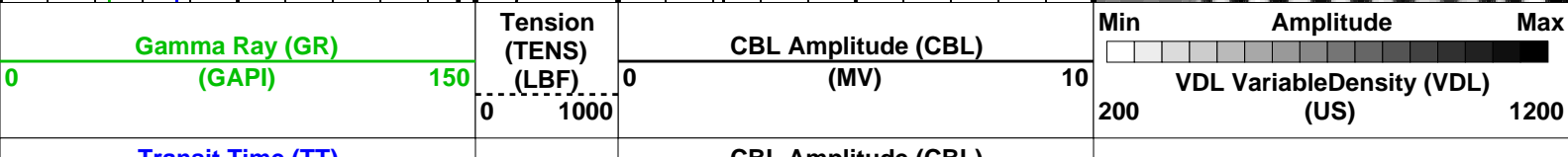
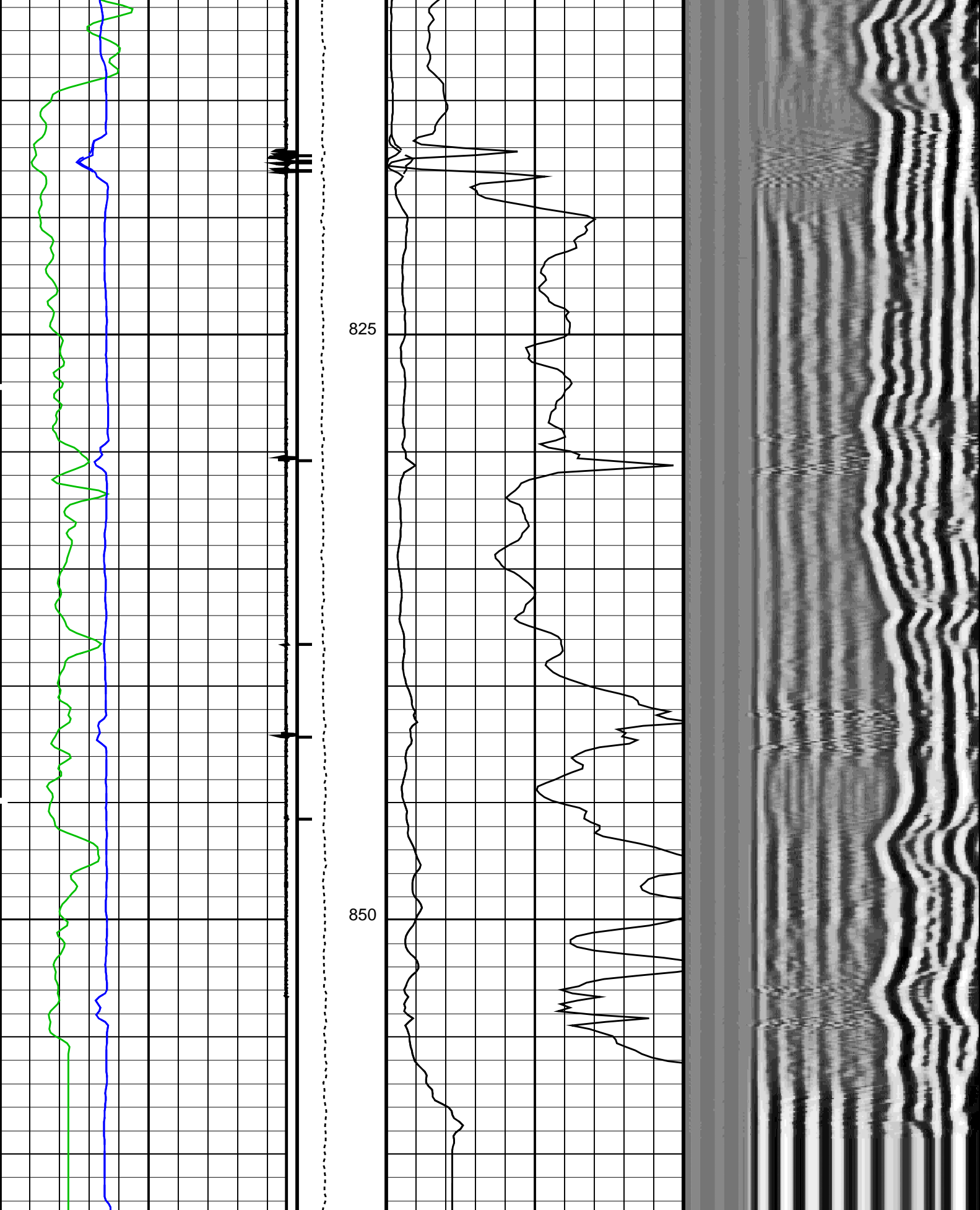












Transit Time (TT)			CBL Amplitude (CBL)		
400	(US)	200	0	(MV)	100
Transit Time (Sliding Gate) (TTSL)			CBL Amplitude (Sliding Gate) (CBSL)		
400	(US)	200	0	(MV)	100
Casing Collar Locator (CCL)					
-19	(----	1			
CasCollar From CCL to T1					

PIP SUMMARY					
<div> <div></div> <div>Casing Collars</div> </div>					
<div> <div></div> <div>Time Mark Every 60 S</div> </div>					

Parameters			
DLIS Name	Description	Value	
DSLT-H: Digitizing Sonic Logging Tool			
	Telemetry Mode	DSLC_FTB	
	DSLT Firing Mode	CBL_C	
AGC	Automatic Gain Control Status	ON	
AMSG	Auxiliary Minimum Sliding Gate	195	US
BILI	Bond Index Level for Zone Isolation	0.8	
CBAF	CBL Adjustment Factor	0.7922	
CBCF	CBL Correction Factor	3.3511	
CBLG	CBL Gate Width	40	US
CDTS	C-Delta-T Shale	100	US/F
CSTR	Compressive Strength of Cement	20684.3	KPAA
DDEL	Digitizing Delay	0	US
DETE	Delta-T Detection	E1	
DFAD	Digital First Arrival Detection Switch	HOST	
DIVL	DSLT Depth Sampling Interval	60	
DRCS	DSLT DLIS Recording Size	120	
DSIN	Digitizing Sample Interval	10	
DTCM	Delta-T Computation Mode	FULL	
DTF	Delta-T Fluid	189	US/F
DTFS	DSLC Telemetry Frame Size	236	
DTM	Delta-T Matrix	56	US/F
DWCO	Digitizing Word Count	120	
FCF	CBL Fluid Compensation Factor	1	
GAI	Manual Gain	40	
GOBO	Good Bond	2	MV
ITTS	Integrated Transit Time Source	DT	
MAHTR	Manual High Threshold Reference	69	
MCI	Minimum Cemented Interval for Isolation	4.51523	M
MGAI	Maximum Gain	1000	
MIGA	Minimum Gain	1	
MNHTR	Minimum High Threshold Reference	103	
MODE	Sonic Firing Mode	CBL	
MSA	Minimum Sonic Amplitude	1.11974	MV
NMSG	Near Minimum Sliding Gate	315	US
NMXG	Near Maximum Sliding Gate	750	US
NUMP	Number of Detection Passes	2	
RATE	Firing Rate	R7	
RDFA	Reset DFAD	OFF	
SDTH	Switch Down Threshold	20000	
SFAF	Sonic Formation Attenuation Factor	0	DB/M
SGAD	Sliding Gate Status	ON	
SGAI	Selectable Acquisition Gain	1X	
SGCL	Sliding Gate Closing Delta-T	250	US/F
SGCW	Sliding Gate Closing Width	25	US
SGDT	Sliding Gate Delta-T	62	US/F
SGW	Sliding Gate Width	80	US
SLEV	Signal Level for AGC	5000	
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DT	
SUTH	Switch Up Threshold	1000	
VDLG	VDL Manual Gain	4	
WAGC	Waveform AGC Allow/Disallow	OFF	
WGAJ	Waveform Manual Gain	20	
WGDT	Waveform Gain Delta-T	240	US/F
WGIN	Waveform Gain Interval	2540	US
WMOD	Waveform Firing Mode	FULL	
SGT-N: Scintillation Gamma-Ray - 1			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	65	DEGC
DPPM	Density Porosity Processing Mode	STAN	
CCSF	Generalized Caliper Selection	RS	

GCSE	Generalized Camper Selection	BS	DEG
GDEV	Average Angular Deviation of Borehole from Normal	0	DC/M
GGRD	Geothermal Gradient	0.018227	
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	SGT Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
SOGR	SGT Standoff Distance	0	IN
CAL-Y: Casing Anomaly Locator - Y			
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	0.3	V
System and Miscellaneous			
ALTDPC	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	8.500	IN
BSAL	Borehole Salinity	35000.00	PPM
CSIZ	Current Casing Size	9.625	IN
CWEI	Casing Weight	36.00	LB/F
DFD	Drilling Fluid Density	1.22	G/C3
DO	Depth Offset for Playback	0.6	M
MST	Mud Sample Temperature	23.20	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	0.1558	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1553.3	M
TDD	Total Depth - Driller	1775.00	M
TDL	Total Depth - Logger	1753.30	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: CBL_VDL Vertical Scale: 1:200 Graphics File Created: 27-Dec-2003 20:54

OP System Version: 11C0-305

MCM

DSLT-H	OP11-KP1	SGT-N	11C0-305
DTC-H	11C0-305	CAL-Y	11C0-305

Input DLIS Files

DEFAULT	SONIC_015LUP	FN:14	PRODUCER	27-Dec-2003 19:22	861.8 M	536.2 M
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Output DLIS Files

DEFAULT	SONIC_024PUP	FN:22	PRODUCER	27-Dec-2003 20:54
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Schlumberger

Cement Bond Log 1:200 Scale
7 inch Liner 1732 - 1190 m

MAXIS Field Log

Company: LAKES OIL N.L. Well: Wombat 1

Input DLIS Files

DEFAULT	SONIC_010LUP	FN:9	PRODUCER	27-Dec-2003 18:13	1755.8 M	1179.4 M
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Output DLIS Files

DEFAULT	SONIC_023PUP	FN:21	PRODUCER	27-Dec-2003 20:45	1756.4 M	1180.5 M
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OP System Version: 11C0-305

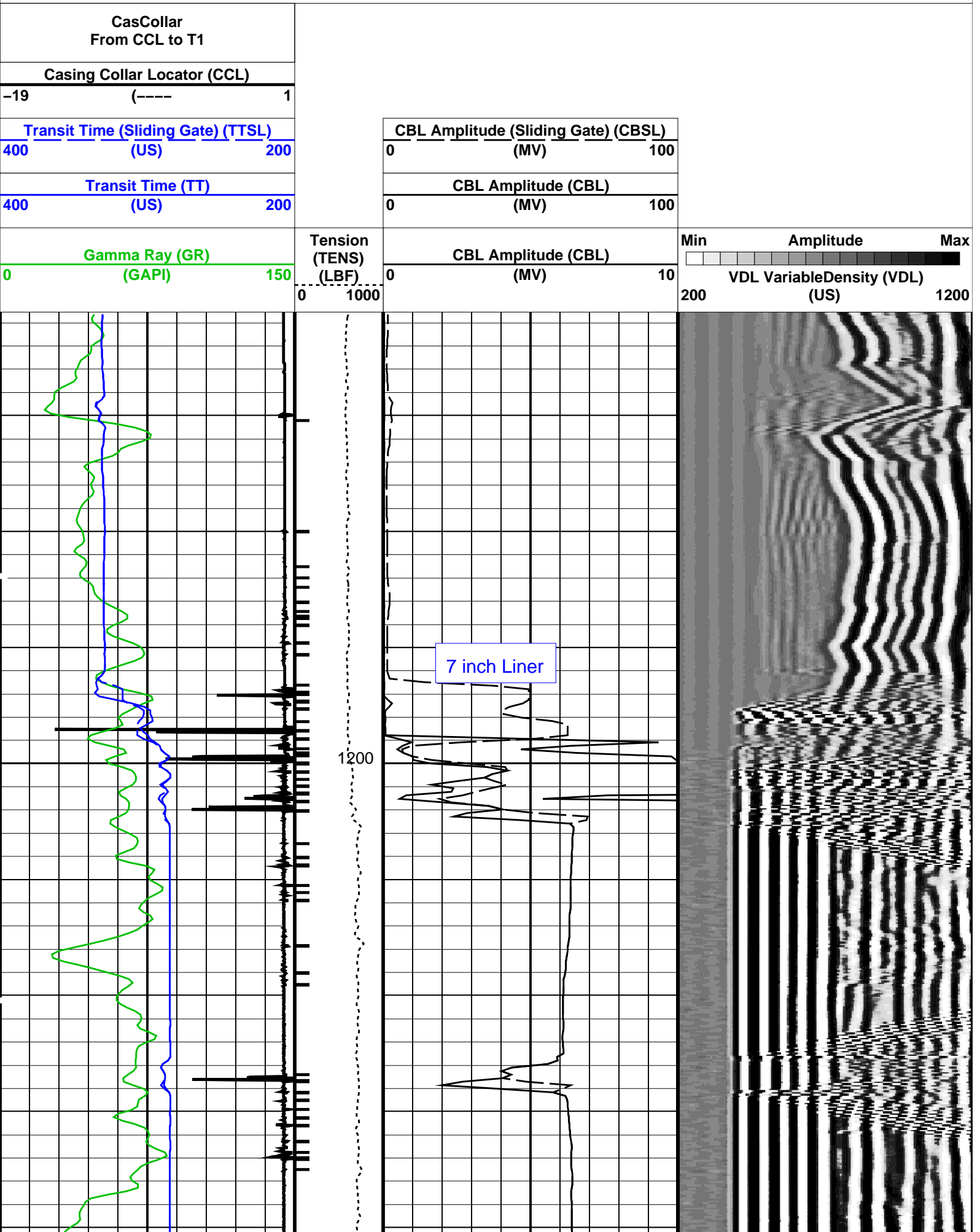
MCM

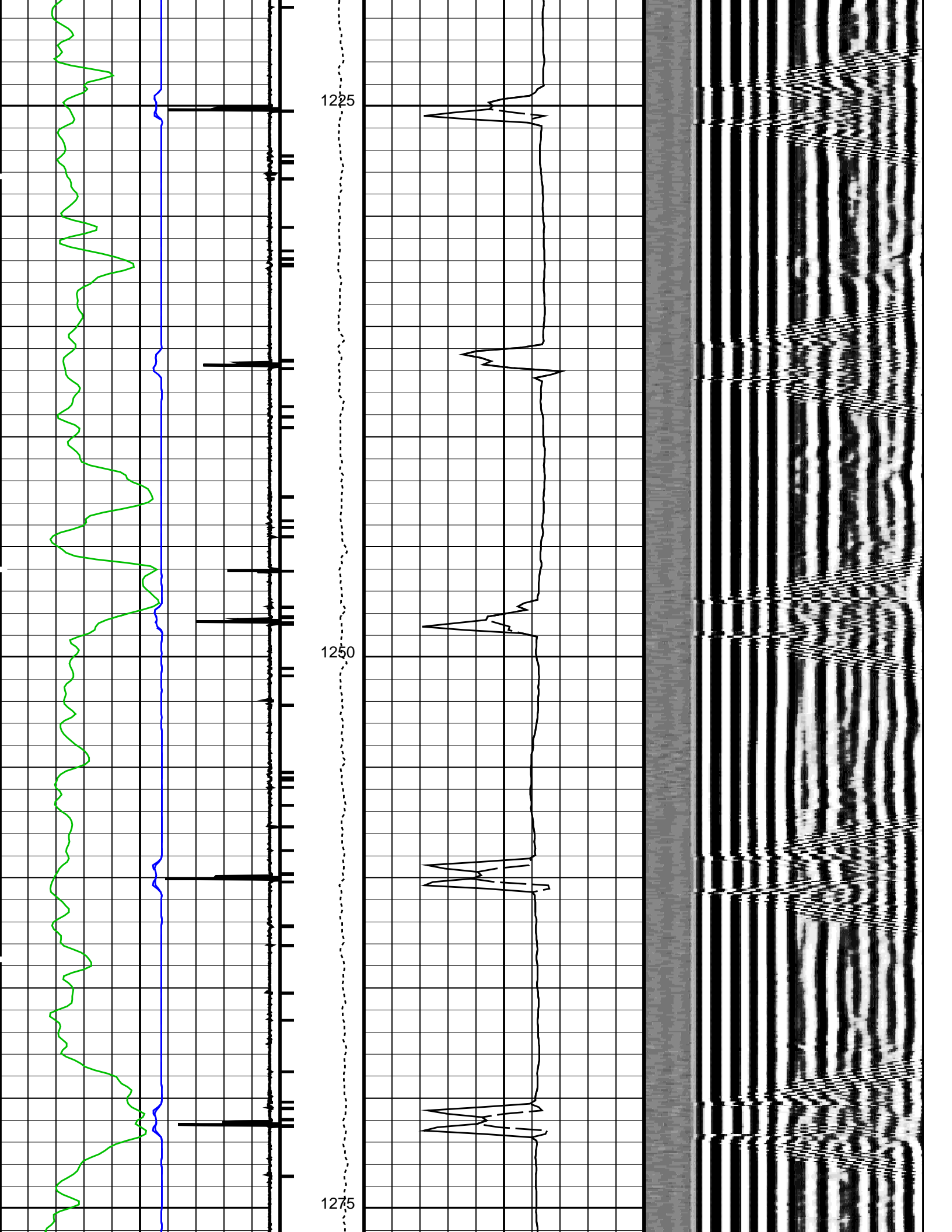
DSLT-H	OP11-KP1	SGT-N	11C0-305
DTC-H	11C0-305	CAL-Y	11C0-305

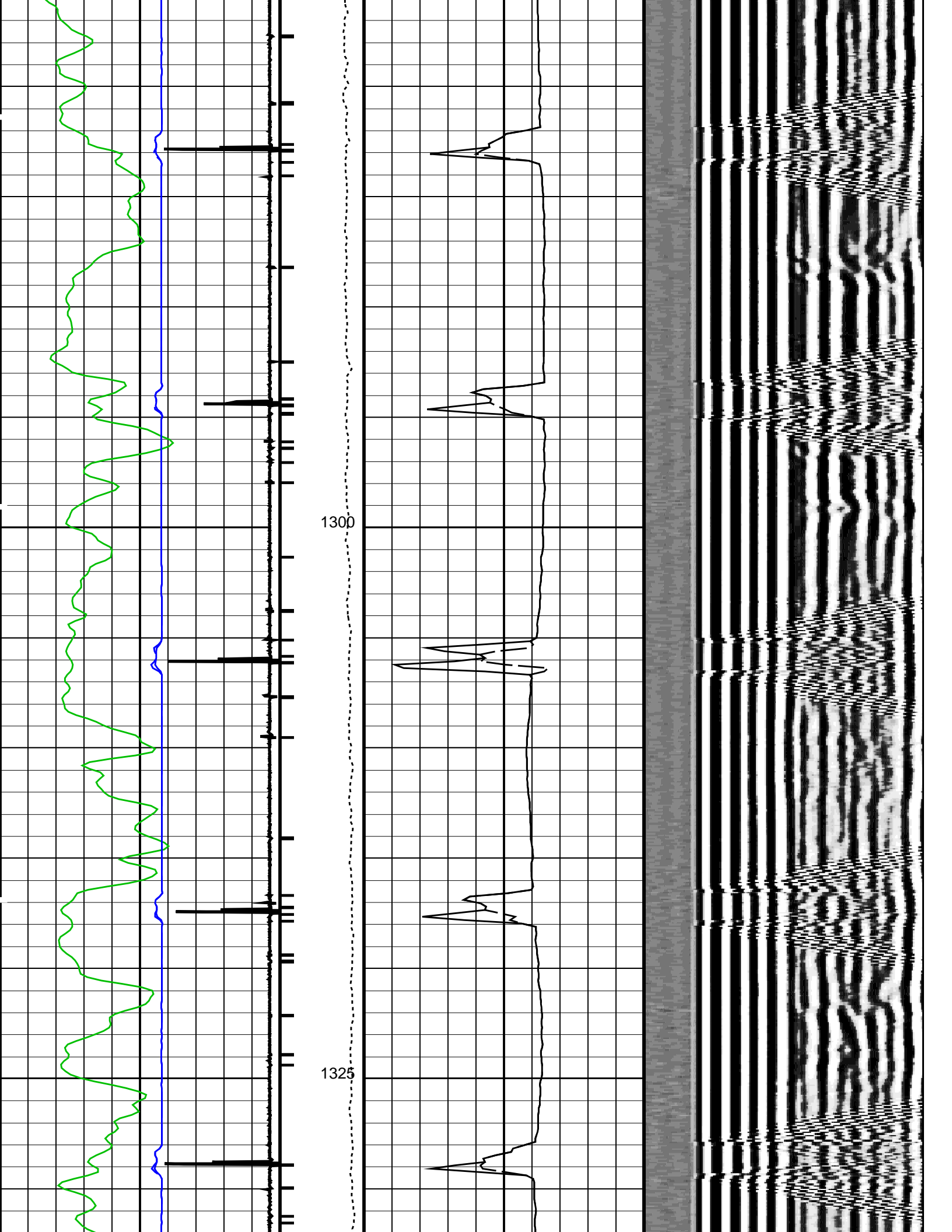
PIP SUMMARY

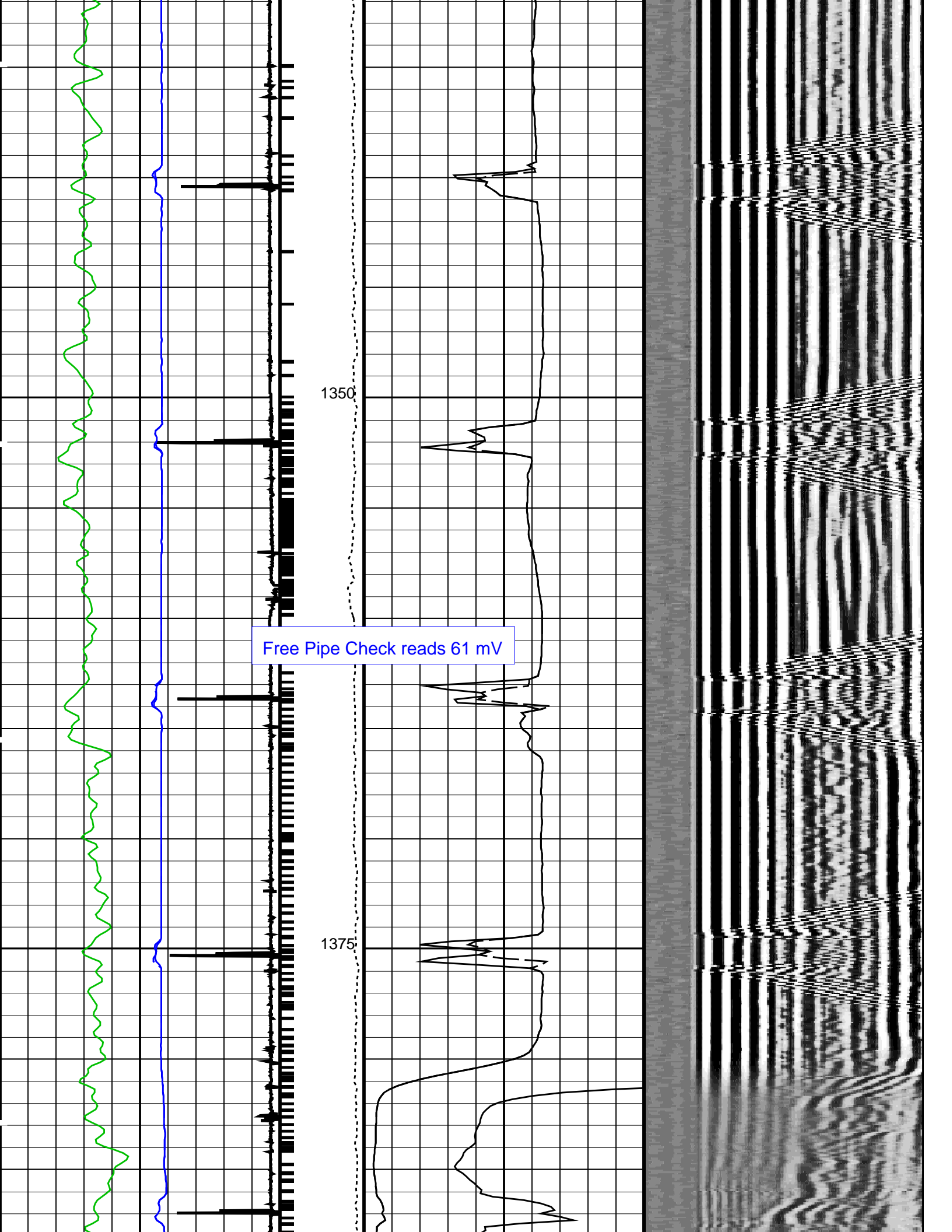
Casing Collars

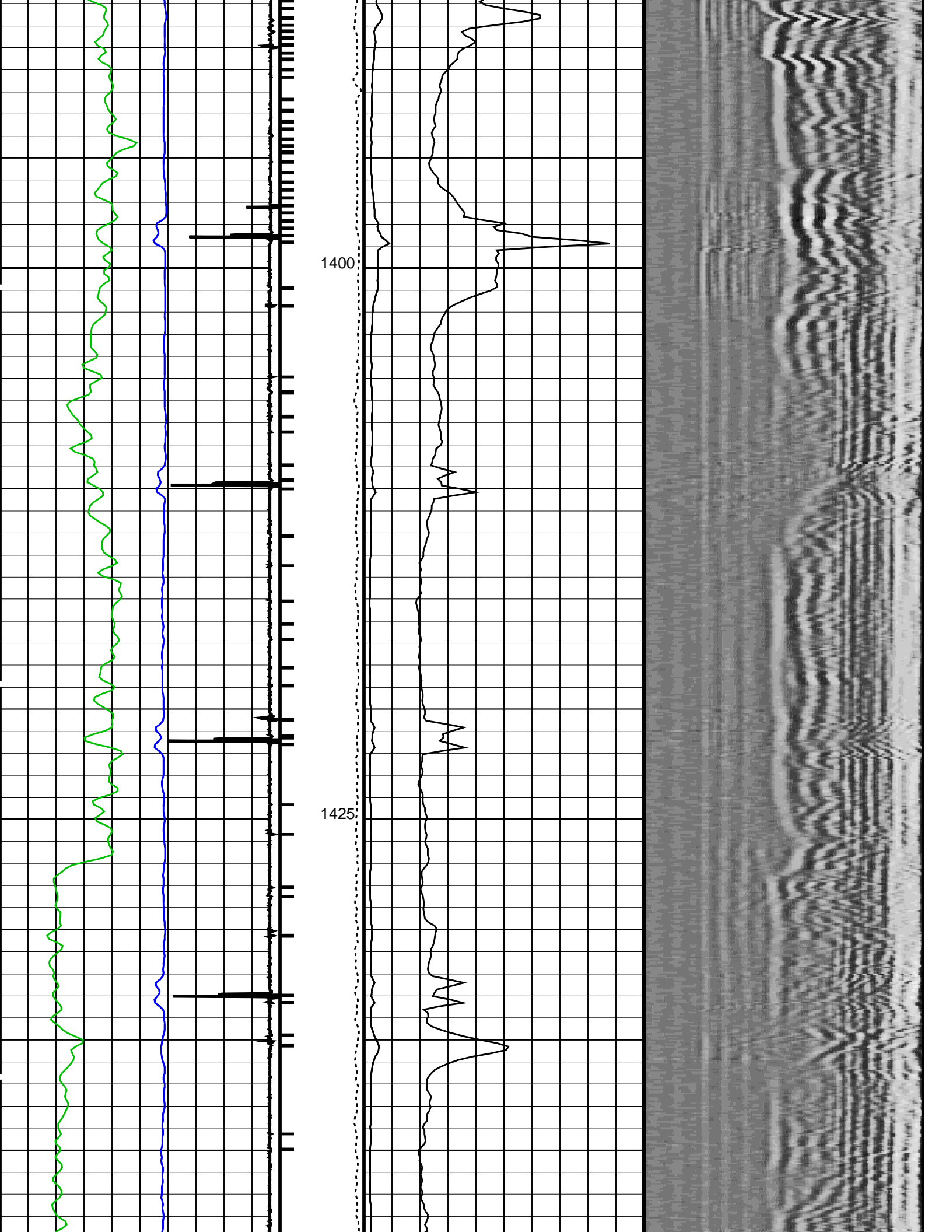
Time Mark Every 60 S

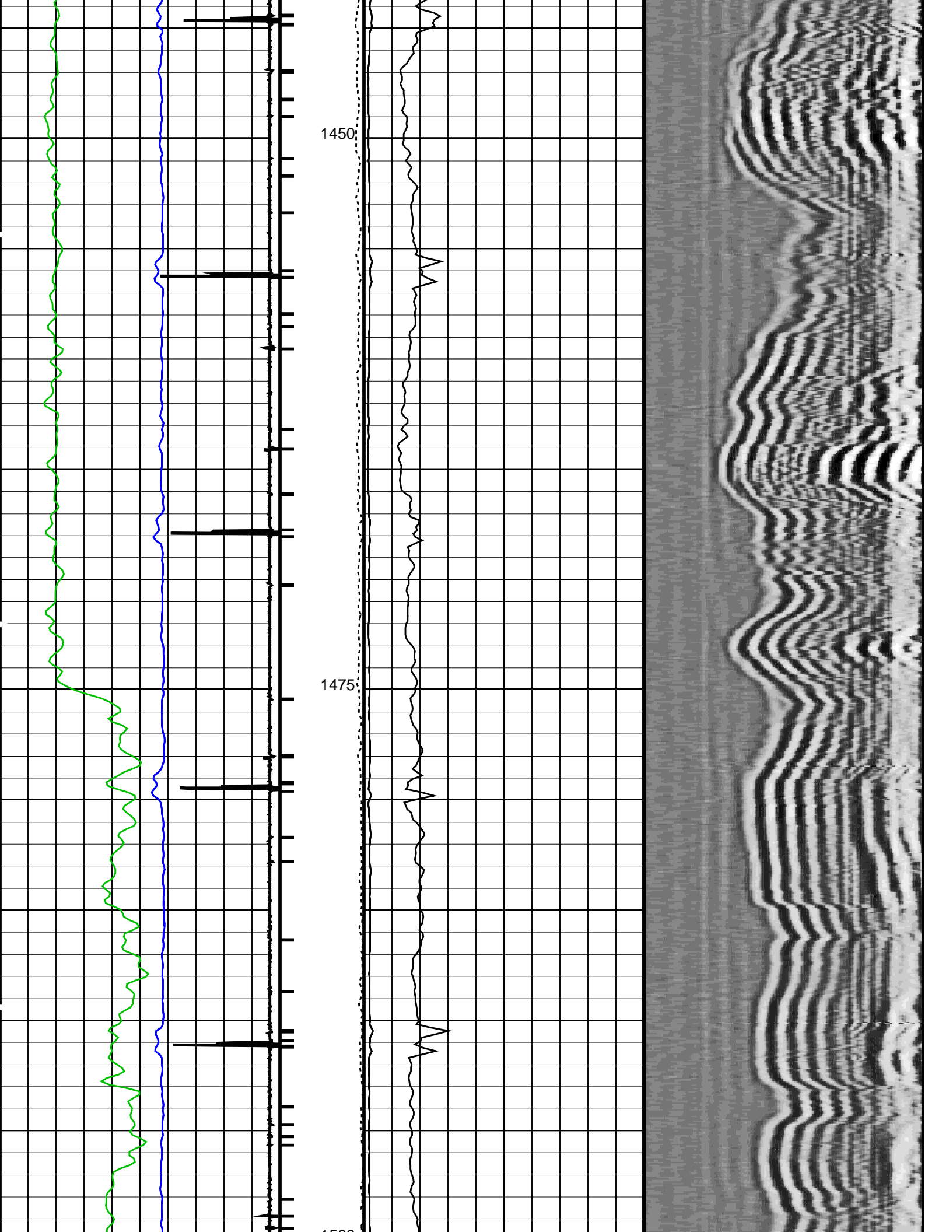


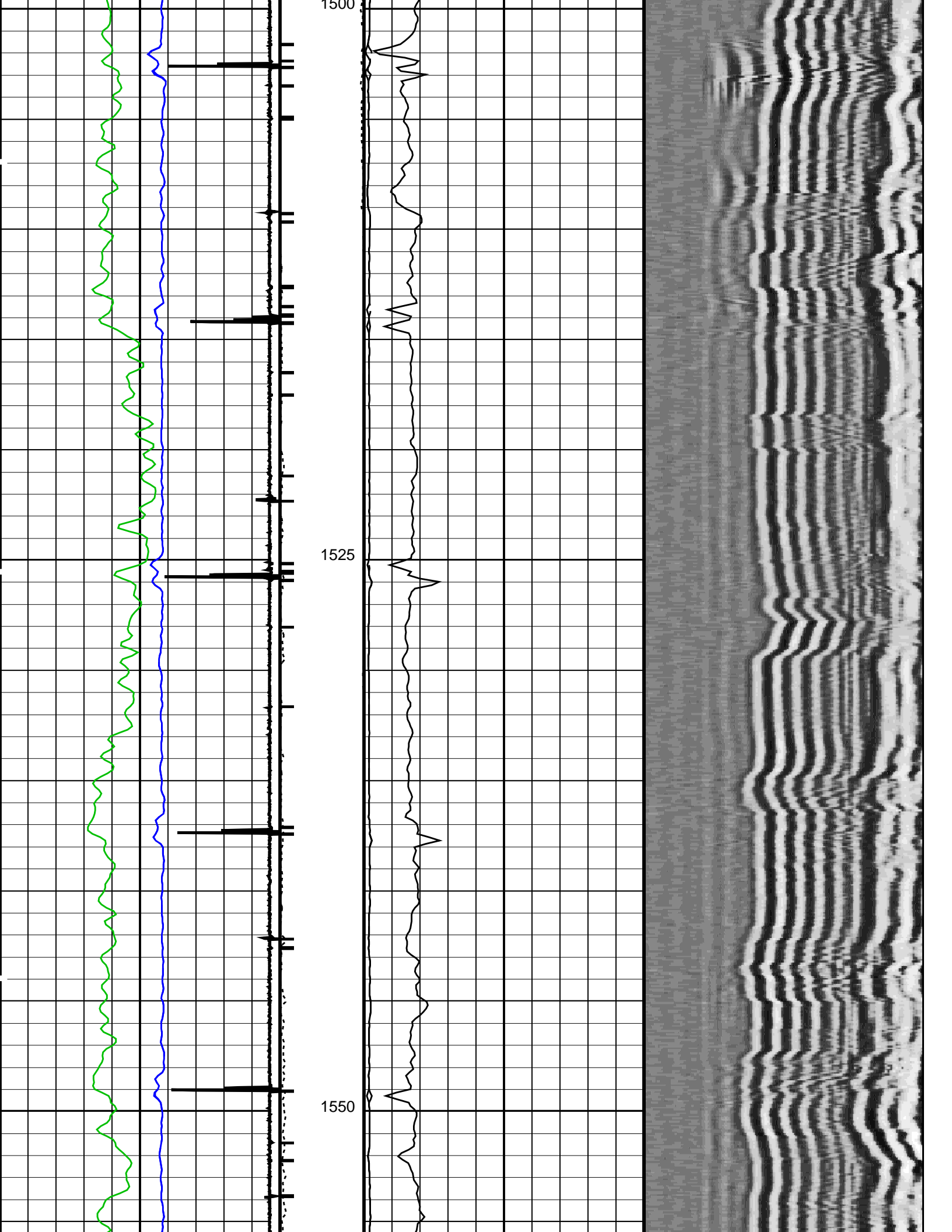


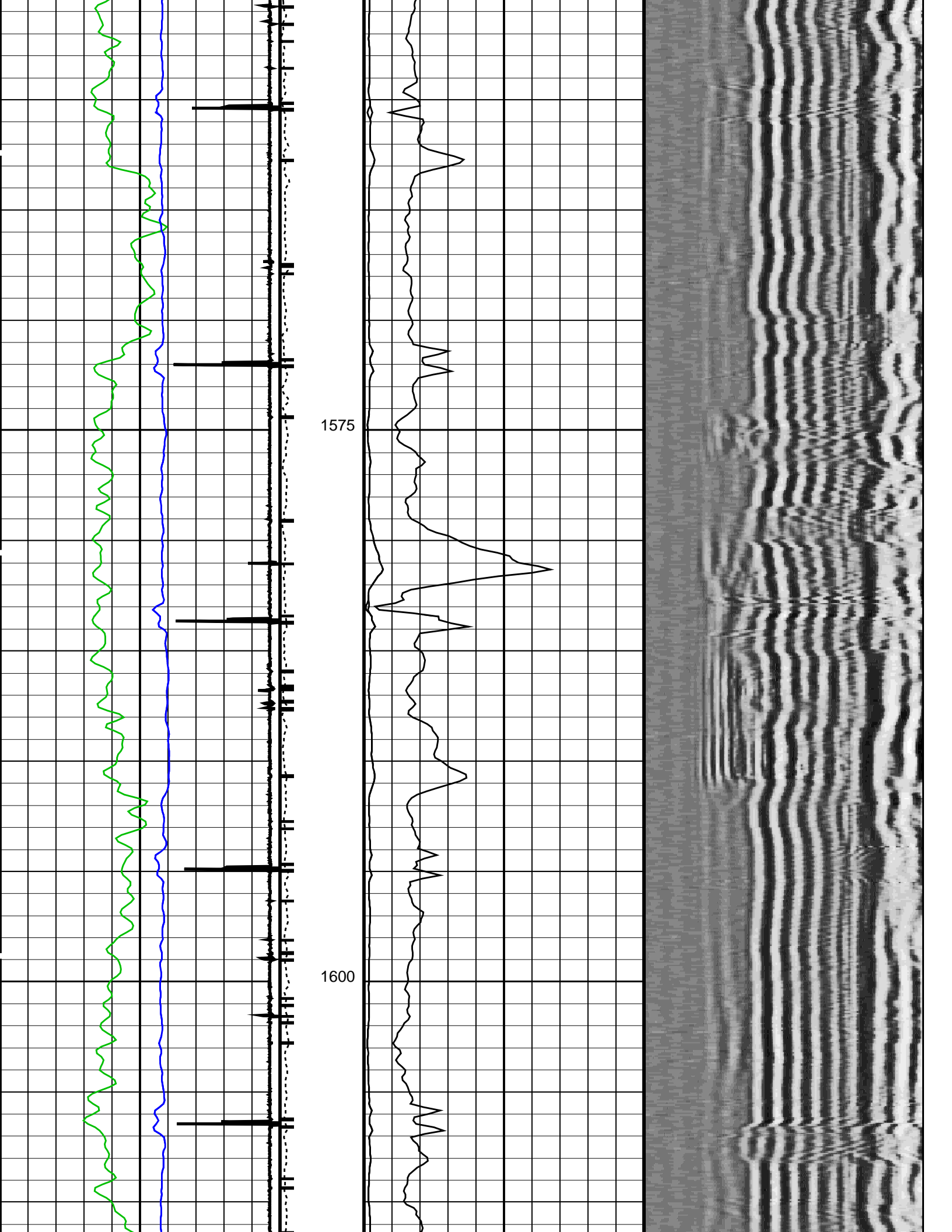


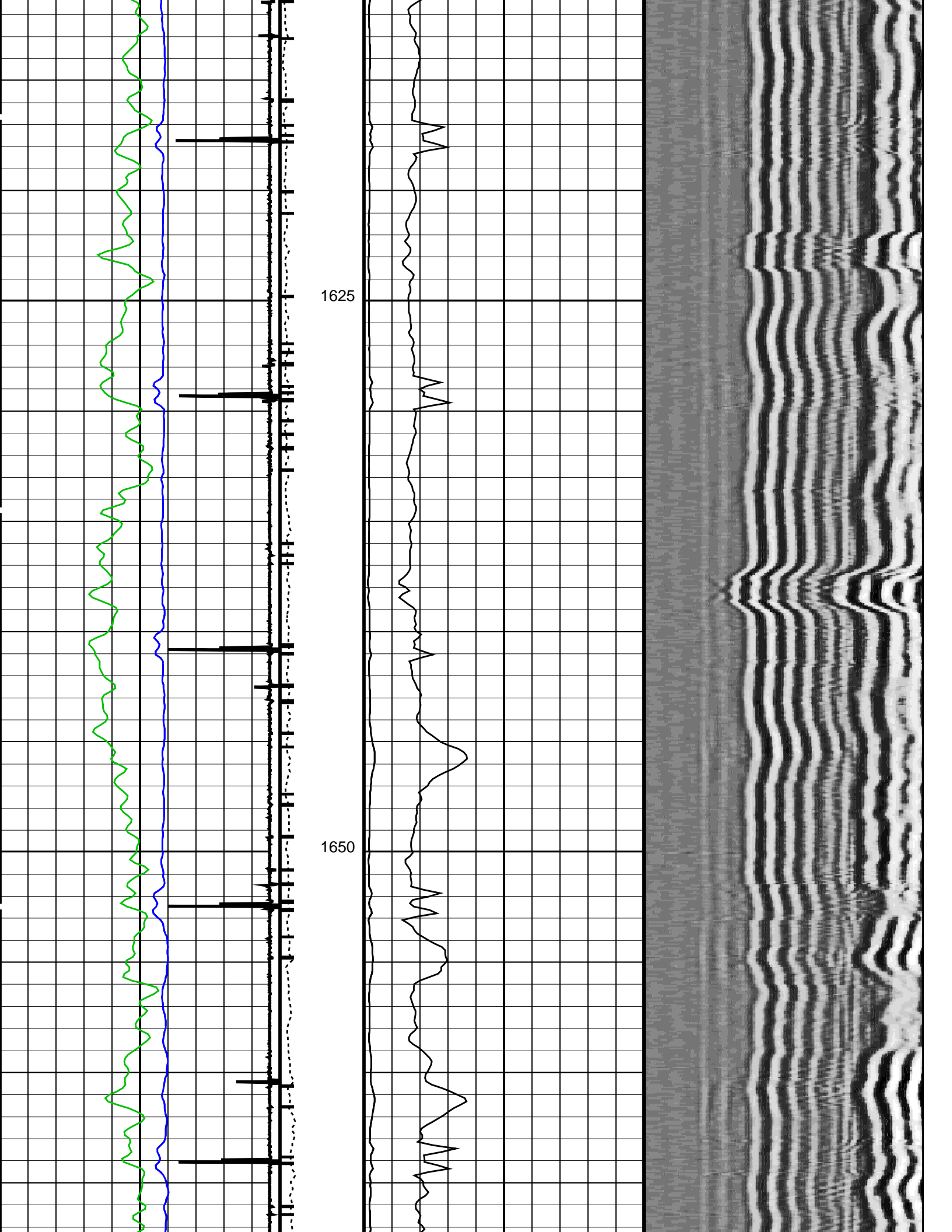


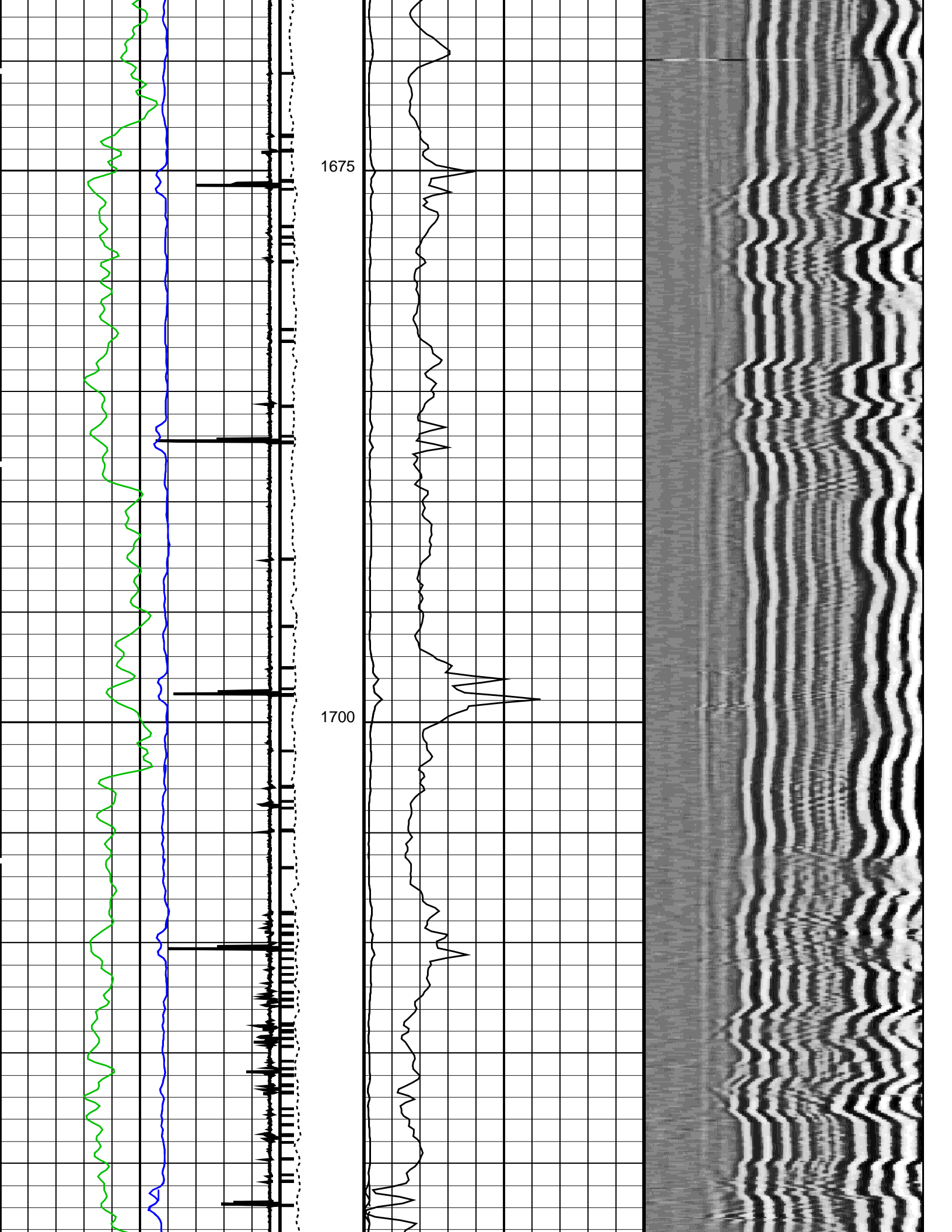


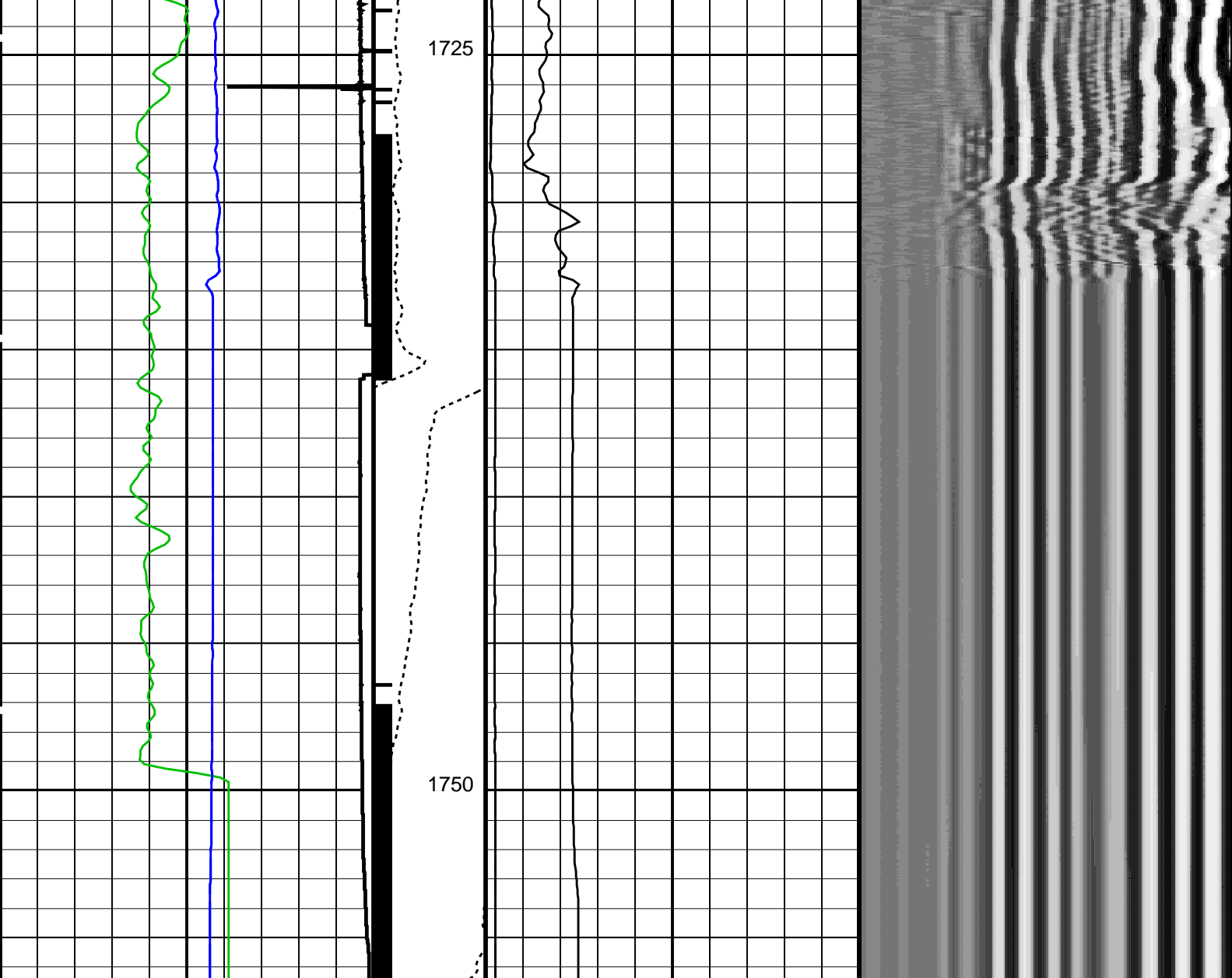












<div>Gamma Ray (GR)</div> <div>(GAPI)</div> <div>0150</div>	<div>Tension (TENS)</div> <div>(LBF)</div> <div>01000</div>	<div>CBL Amplitude (CBL)</div> <div>(MV)</div> <div>010</div>	<div>Min</div> <div>Amplitude</div> <div>Max</div> <div>VDL VariableDensity (VDL)</div> <div>(US)</div> <div>2001200</div>
<div>Transit Time (TT)</div> <div>(US)</div> <div>400200</div>		<div>CBL Amplitude (CBL)</div> <div>(MV)</div> <div>0100</div>	
<div>Transit Time (Sliding Gate) (TTSL)</div> <div>(US)</div> <div>400200</div>		<div>CBL Amplitude (Sliding Gate) (CBSL)</div> <div>(MV)</div> <div>0100</div>	
<div>Casing Collar Locator (CCL)</div> <div>(----</div> <div>-191</div>			
<div>CasCollar</div> <div>From CCL to T1</div>			

PIP SUMMARY

Time Mark Every 60 S

Casing Collars

Parameters		
DLIS Name	Description	Value
AGC	DSLTL-H: Digitizing Sonic Logging Tool Telemetry Mode DSLTL Firing Mode Automatic Gain Control Status	DSLCL_FTB CBL_C ON

AMSG	Auxiliary Minimum Sliding Gate	150	US
BILI	Bond Index Level for Zone Isolation	0.8	
CBAF	CBL Adjustment Factor	0.7922	
CBCF	CBL Correction Factor	3.3511	
CBLG	CBL Gate Width	40	US
CDTS	C-Delta-T Shale	100	US/F
CSTR	Compressive Strength of Cement	20684.3	KPAA
DDEL	Digitizing Delay	0	US
DETE	Delta-T Detection	E1	
DFAD	Digital First Arrival Detection Switch	HOST	
DIVL	DSLTD Depth Sampling Interval	60	
DRCS	DSLTD DLIS Recording Size	120	
DSIN	Digitizing Sample Interval	10	
DTCM	Delta-T Computation Mode	FULL	
DTF	Delta-T Fluid	189	US/F
DTFS	DSLTD Telemetry Frame Size	236	
DTM	Delta-T Matrix	56	US/F
DWCO	Digitizing Word Count	120	
FCF	CBL Fluid Compensation Factor	1	
GAI	Manual Gain	40	
GOBO	Good Bond	2	MV
ITTS	Integrated Transit Time Source	DT	
MAHTR	Manual High Threshold Reference	69	
MCI	Minimum Cemented Interval for Isolation	3.048	M
MGAI	Maximum Gain	1000	
MIGA	Minimum Gain	1	
MNHTR	Minimum High Threshold Reference	103	
MODE	Sonic Firing Mode	CBL	
MSA	Minimum Sonic Amplitude	1.54912	MV
NMSG	Near Minimum Sliding Gate	267	US
NMXG	Near Maximum Sliding Gate	750	US
NUMP	Number of Detection Passes	2	
RATE	Firing Rate	R7	
RDFA	Reset DFAD	OFF	
SDTH	Switch Down Threshold	20000	
SFAF	Sonic Formation Attenuation Factor	0	DB/M
SGAD	Sliding Gate Status	ON	
SGAI	Selectable Acquisition Gain	1X	
SGCL	Sliding Gate Closing Delta-T	250	US/F
SGCW	Sliding Gate Closing Width	25	US
SGDT	Sliding Gate Delta-T	62	US/F
SGW	Sliding Gate Width	80	US
SLEV	Signal Level for AGC	5000	
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPSO	Sonic Porosity Source	DT	
SUTH	Switch Up Threshold	1000	
VDLG	VDL Manual Gain	4	
WAGC	Waveform AGC Allow/Disallow	OFF	
WGAJ	Waveform Manual Gain	20	
WGDJ	Waveform Gain Delta-T	240	US/F
WGIN	Waveform Gain Interval	2540	US
WMOD	Waveform Firing Mode	FULL	
SGT-N: Scintillation Gamma-Ray - N			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	65	DEGC
DPPM	Density Porosity Processing Mode	STAN	
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	
ISSBAR	SGT Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
SOGR	SGT Standoff Distance	0	IN
CAL-Y: Casing Anomaly Locator - Y			
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	0.3	V
System and Miscellaneous			
ALTDPC	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	8.500	IN
BSAL	Borehole Salinity	35000.00	PPM
CSIZ	Current Casing Size	7.000	IN
CWEI	Casing Weight	26.00	LB/F
DFD	Drilling Fluid Density	1.22	G/C3
DO	Depth Offset for Playback	0.6	M
MST	Mud Sample Temperature	23.20	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	0.1558	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	1553.3	M
TDD	Total Depth - Driller	1775.00	M
TDL	Total Depth - Logger	1753.30	M
TWC	Temperature of Connate Water Sample	83.38	DEGC

OP System Version: 11C0-305

MCM

DSLT-H

OP11-KP1

SGT-N

11C0-305

DTC-H

11C0-305

CAL-Y

11C0-305

Input DLIS Files

DEFAULT

SONIC_010LUP

FN:9

PRODUCER

27-Dec-2003 18:13

1755.8 M

1179.4 M

Output DLIS Files

DEFAULT

SONIC_023PUP

FN:21

PRODUCER

27-Dec-2003 20:45

Schlumberger

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Scintillation Gamma-Ray – N Wellsite Calibration – Detector Calibration							
Before: 27-Dec-2003 16:23							
Gamma Ray (Jig – Bkg)	159.5	N/A	159.5	N/A	N/A	14.50	GAPI
Gamma Ray (Calibrated)	162.0	N/A	162.0	N/A	N/A	15.00	GAPI

Scintillation Gamma-Ray – N / Equipment Identification

Primary Equipment:

Scintillation Gamma Cartridge

SGC – TB

Scintillation Gamma Detector

SGD – TAA

Auxiliary Equipment:

Scintillation Gamma Housing

SGH – K

Gamma Source Radioactive

GSR – U/Y

Scintillation Gamma-Ray – N Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background	GAPI	Value	Phase	Gamma Ray (Jig – Bkg)	GAPI	Value	Phase	Gamma Ray (Calibrated)	GAPI	Value
Before			22.17	Before			159.5	Before			162.0
0	30.00	120.0		145.0	159.5	174.0		147.0	162.0	177.0	
(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)	

Before: 27-Dec-2003 16:23

Company: **LAKES OIL N.L**



Well: **Wombat 1**

Field: **Wildcat**

Rig: **Hunt #2**

Country: **Australia**

CBL–VDL–GR–CC
Cement Evaluation
1:200 Scale