

<div><div>Company: CAERUS OPERATING LLC</div><div>Well: Puckett 24C-23 697</div><div>Field: Grand Valley</div><div>County: Garfield</div></div> <div><div>State: Colorado</div><div>CEMENT BOND LOG</div><div>RST SIGMA LOG</div><div>GAMMA RAY COLLAR LOG</div></div>										Schlumberger		
<div><div>Logging Date</div><div>Run Number</div><div>Depth Driller</div><div>Schlumberger Depth</div><div>Bottom Log Interval</div><div>Top Log Interval</div><div>Casing Fluid Type</div><div>Salinity</div><div>Density</div><div>Fluid Level</div><div>BIT/CASING/TUBING STRING</div><div>Bit Size</div><div>From</div><div>To</div><div>Casing/Tubing Size</div><div>Weight</div><div>Grade</div><div>From</div><div>To</div><div>Maximum Recorded Temperatures</div><div>Logger On Bottom</div><div>Unit Number</div><div>Recorded By</div><div>Witnessed By</div></div> <div><div>7-Feb-2018</div><div>1</div><div>8948 ft</div><div>8924 ft</div><div>8916 ft</div><div>6700 ft</div><div>WATER</div><div></div><div></div><div>8.6 lbm/gal</div><div>13 ft</div><div>8.750 in</div><div>30 ft</div><div>8948 ft</div><div>4.500 in</div><div>11.6 lbm/ft</div><div>P110</div><div>30 ft</div><div>8948 ft</div><div>237 degF</div><div>7-Feb-2018</div><div>3046</div><div>TREVOR ELLIS</div><div>RYAN TOMPKINS</div></div>										<div><div>Oil Density</div><div>Water Salinity</div><div>Gas Gravity</div><div>Bo</div><div>Bw</div><div>1/Bg</div><div>Bubble Point Pressure</div><div>Bubble Point Temperature</div><div>Solution GOR</div><div>Maximum Deviation</div><div>CEMENTING DATA</div><div>Primary/Squeeze</div><div>Casing String No</div><div>Lead Cement Type</div><div>Volume</div><div>Density</div><div>Water Loss</div><div>Additives</div><div>Tail Cement Type</div><div>Volume</div><div>Density</div><div>Water Loss</div><div>Additives</div><div>Expected Cement Top</div></div> <div><div>Run 1</div><div>Run 2</div><div>Run</div></div>		
<div><div>Logging Date</div><div>Run Number</div><div>Depth Driller</div><div>Schlumberger Depth</div><div>Bottom Log Interval</div><div>Top Log Interval</div><div>Casing Fluid Type</div><div>Salinity</div><div>Density</div><div>Fluid Level</div><div>BIT/CASING/TUBING STRING</div><div>Bit Size</div><div>From</div><div>To</div><div>Casing/Tubing Size</div><div>Weight</div><div>Grade</div><div>From</div><div>To</div><div>Maximum Recorded Temperatures</div><div>Logger On Bottom</div><div>Unit Number</div><div>Recorded By</div><div>Witnessed By</div></div> <div><div>7-Feb-2018</div><div>1</div><div>8948 ft</div><div>8924 ft</div><div>8916 ft</div><div>6700 ft</div><div>WATER</div><div></div><div></div><div>8.6 lbm/gal</div><div>13 ft</div><div>8.750 in</div><div>30 ft</div><div>8948 ft</div><div>4.500 in</div><div>11.6 lbm/ft</div><div>P110</div><div>30 ft</div><div>8948 ft</div><div>237 degF</div><div>7-Feb-2018</div><div>3046</div><div>TREVOR ELLIS</div><div>RYAN TOMPKINS</div></div>										<div><div>Oil Density</div><div>Water Salinity</div><div>Gas Gravity</div><div>Bo</div><div>Bw</div><div>1/Bg</div><div>Bubble Point Pressure</div><div>Bubble Point Temperature</div><div>Solution GOR</div><div>Maximum Deviation</div><div>CEMENTING DATA</div><div>Primary/Squeeze</div><div>Casing String No</div><div>Lead Cement Type</div><div>Volume</div><div>Density</div><div>Water Loss</div><div>Additives</div><div>Tail Cement Type</div><div>Volume</div><div>Density</div><div>Water Loss</div><div>Additives</div><div>Expected Cement Top</div></div> <div><div>Run 1</div><div>Run 2</div><div>Run</div></div>		

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

OS1:
OS2:
OS3:
OS4:
OS5:

OTHER SERVICES2

OS1:
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 1

CORRELATED TO SCHLUMBERGER CEMENT BOND LOG DATED 17-DEC-2017

REMARKS: RUN NUMBER 2

Gamma ray activated on repeat pass

MAX PRESSURE 3783 PSI

MAX TEMP 237 degF

RUN 1

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

19C2-270
13 ft

LOGGED INTERVAL

START

STOP

RUN 2

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED INTERVAL

START

STOP

EQUIPMENT	DESCRIPTION
-----------	-------------

RUN 1

RUN 2

SURFACE EQUIPMENT

WITM-A
PSC 16MHZ

DOWNHOLE EQUIPMENT

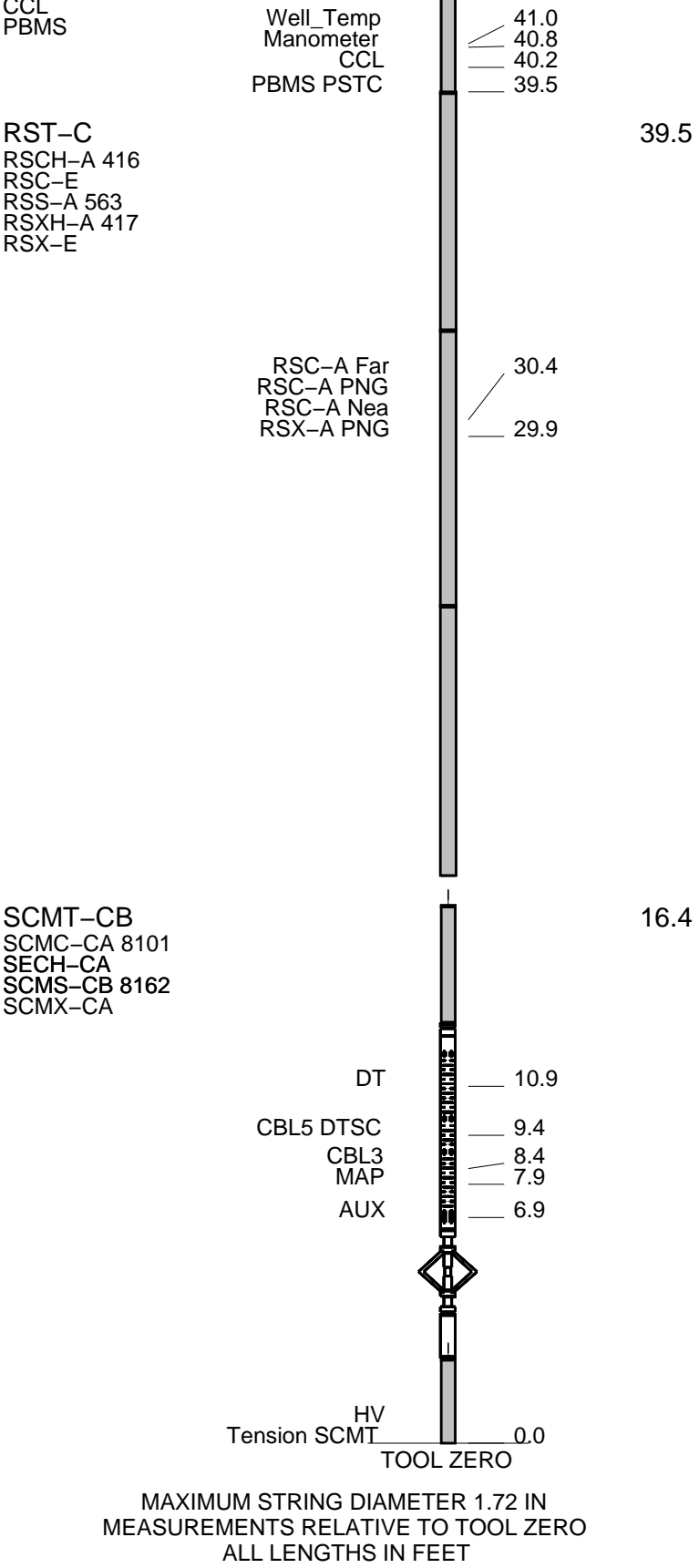
Detail MT
TelStatus
CTEM

47.7

47.7

GR

44.0





CBL Main Pass

MAXIS Field Log

Company: CAERUS OPERATING LLC Well: Puckett 24C-23 697

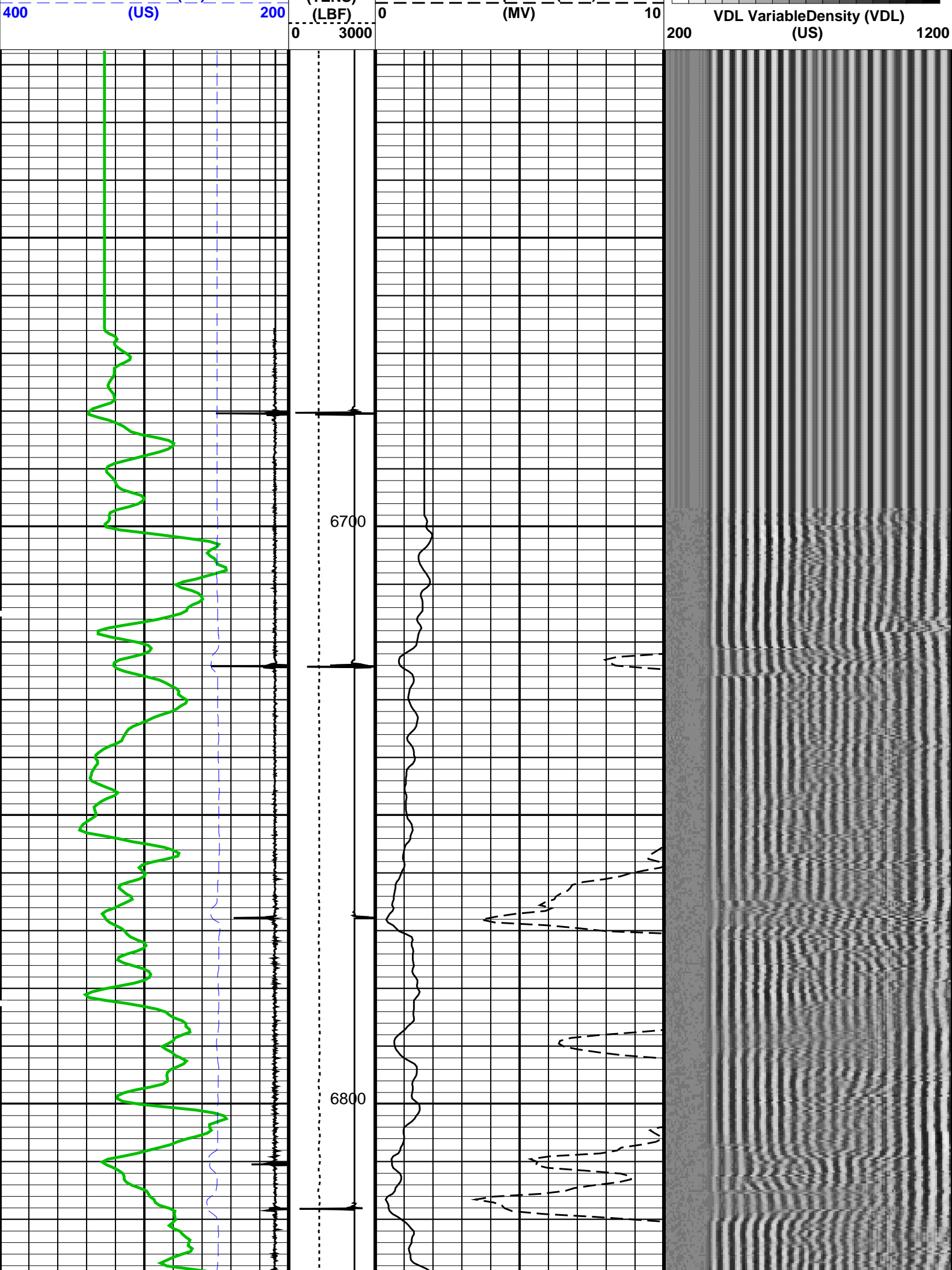
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Output DLIS Files						
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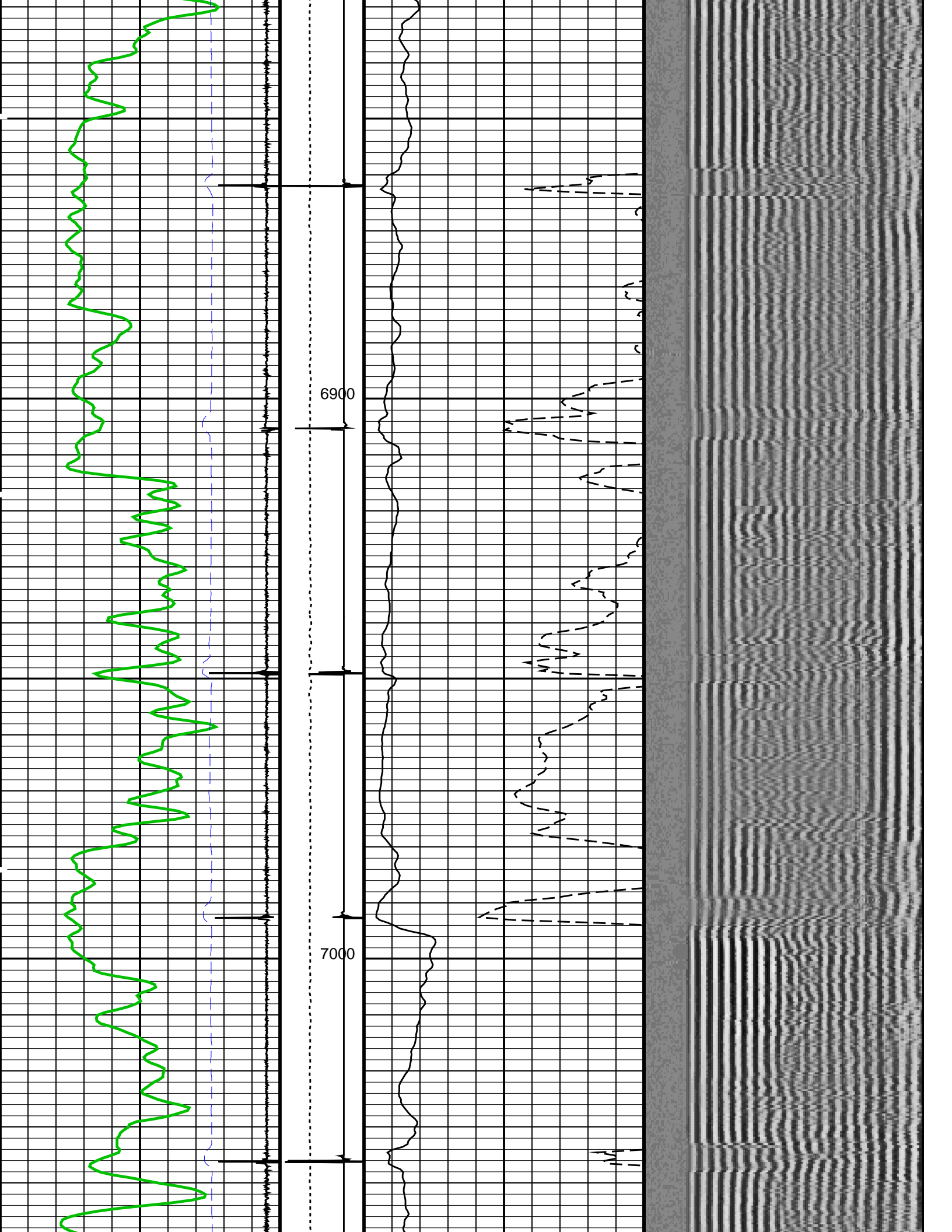
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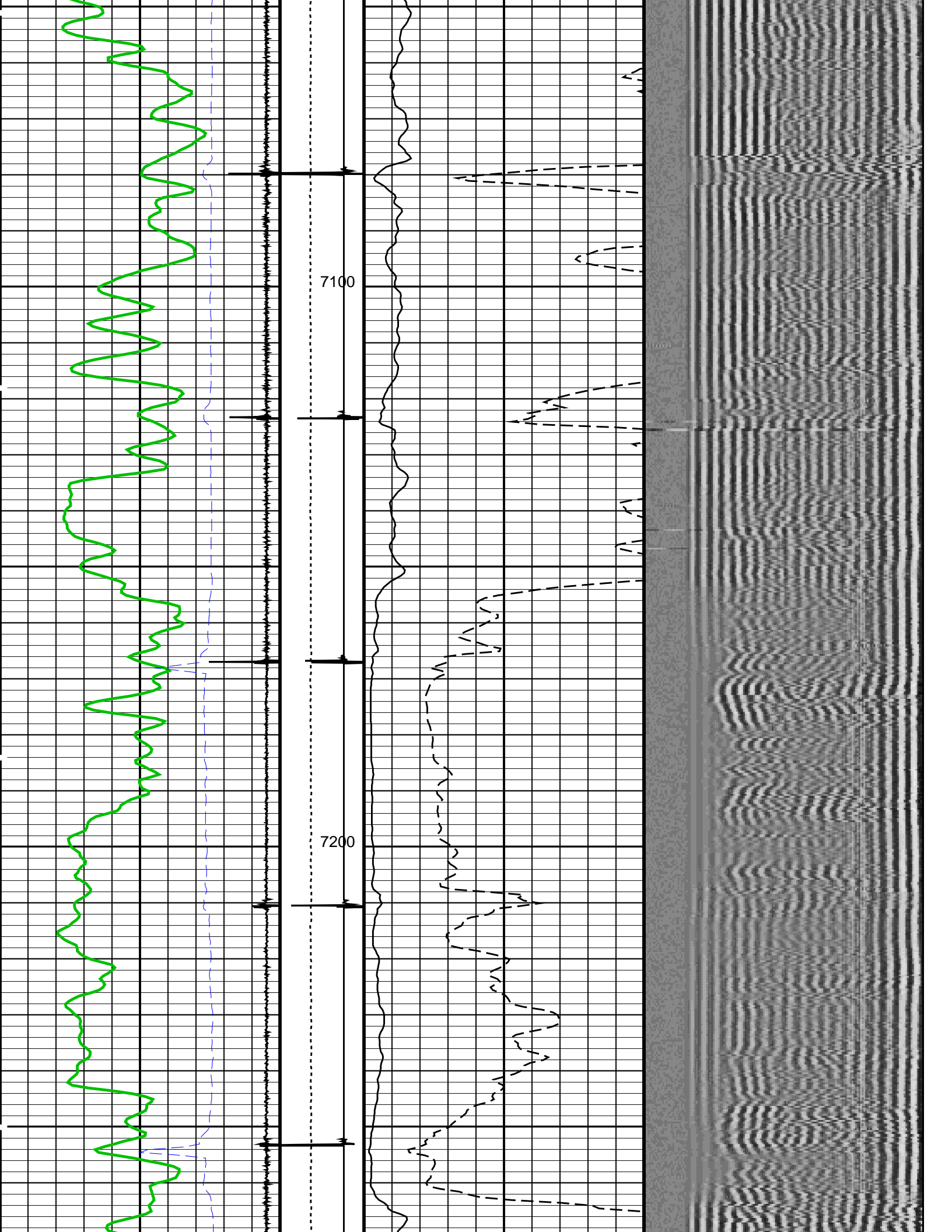
PIP SUMMARY

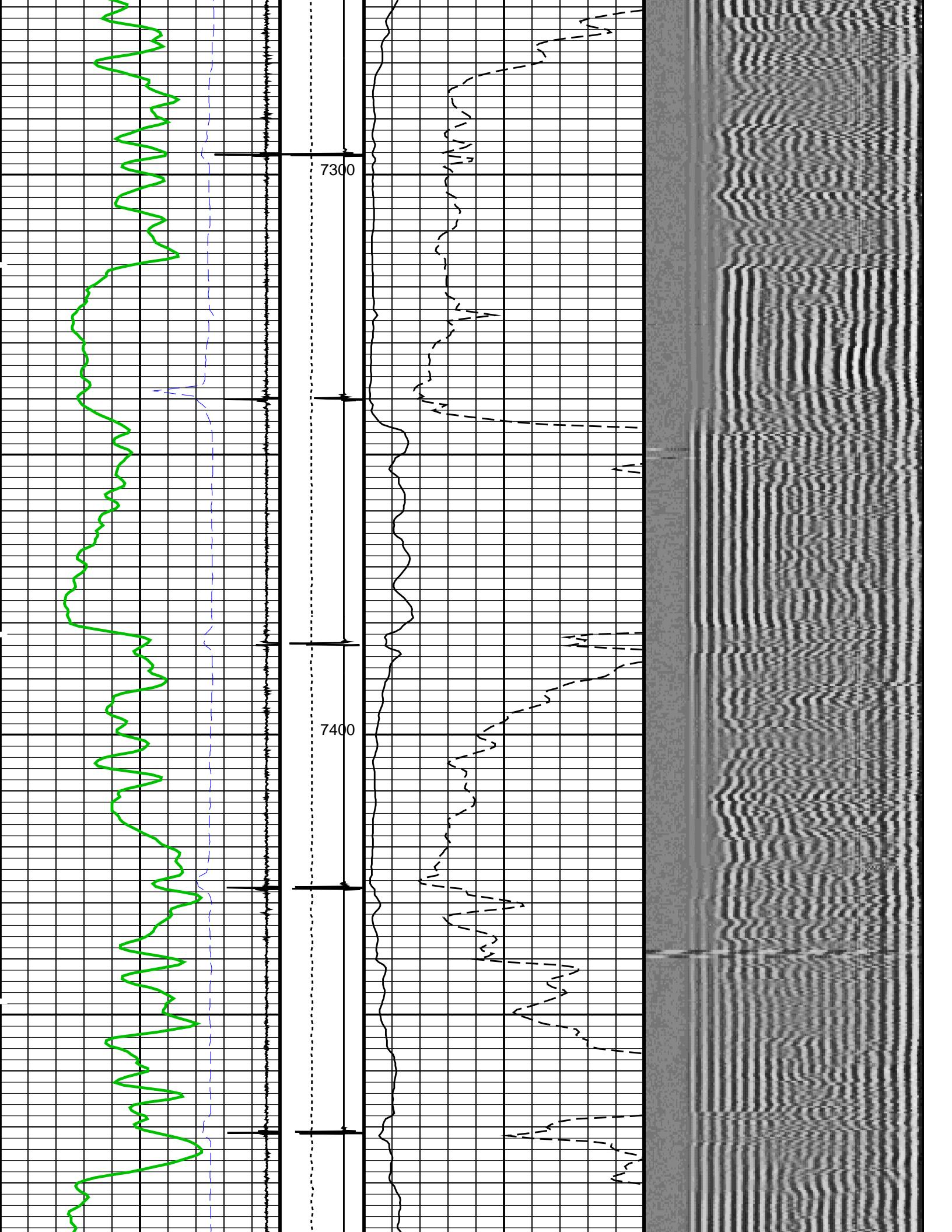
 Time Mark Every 60 S

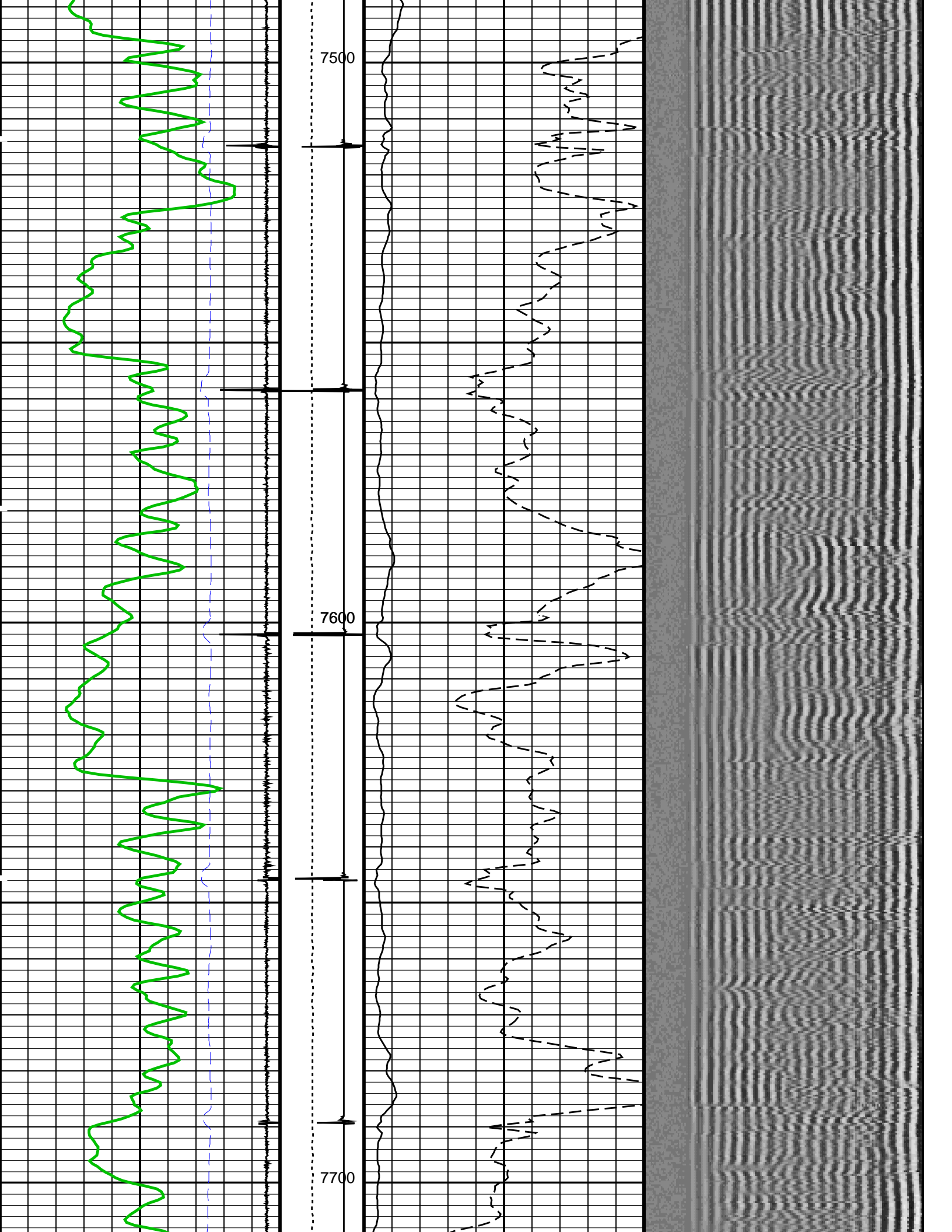
Gamma Ray (GR)			
0	(GAPI)	150	
Computed CCL (CCLC)		Discriminat ed CCL (CCLD)	CBL Amplitude (CBL)
-19	(V)	1	0 100
		3 (V) -1	
Transit Time (TT)		Tension (TENS)	CBL Amplitude (CBL)
			Min Amplitude Max

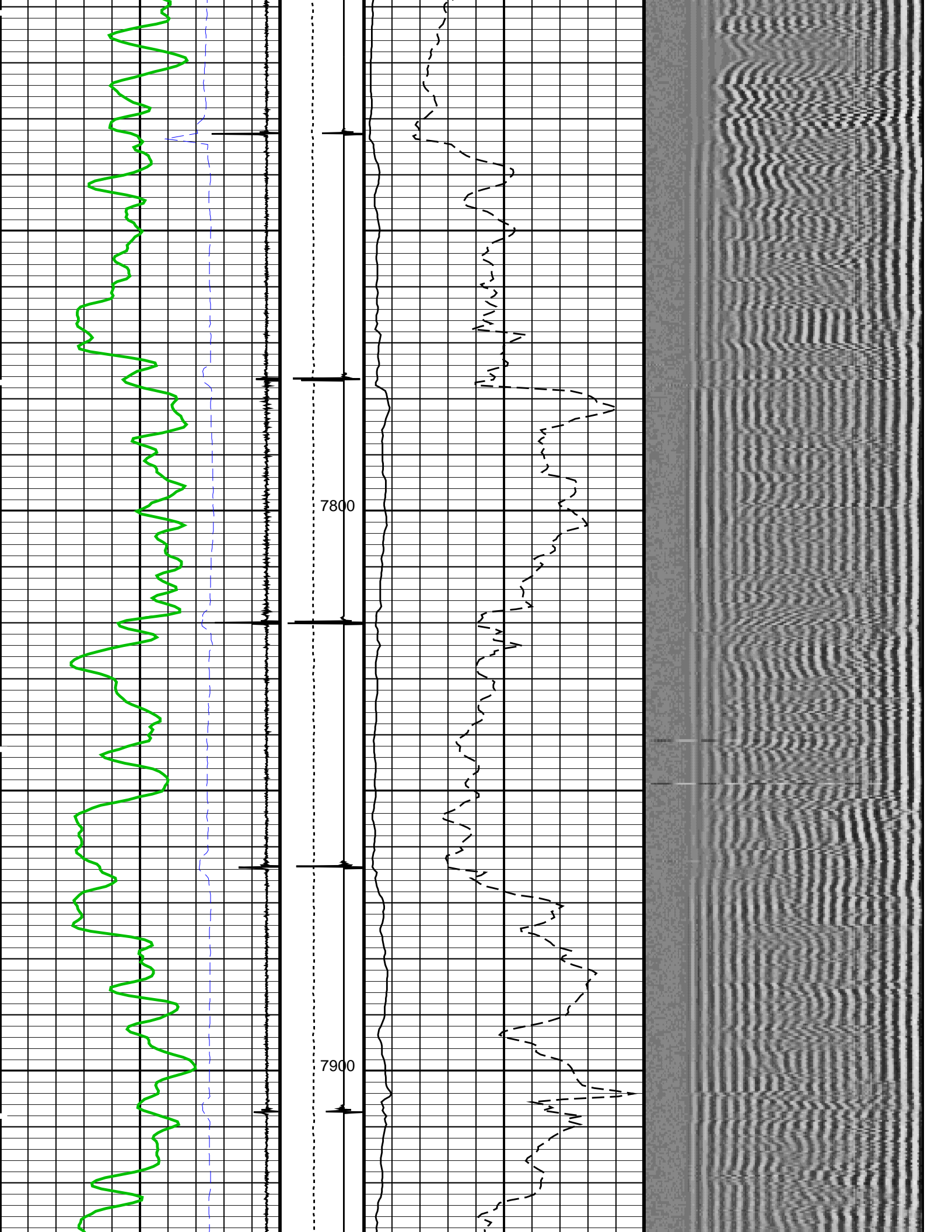


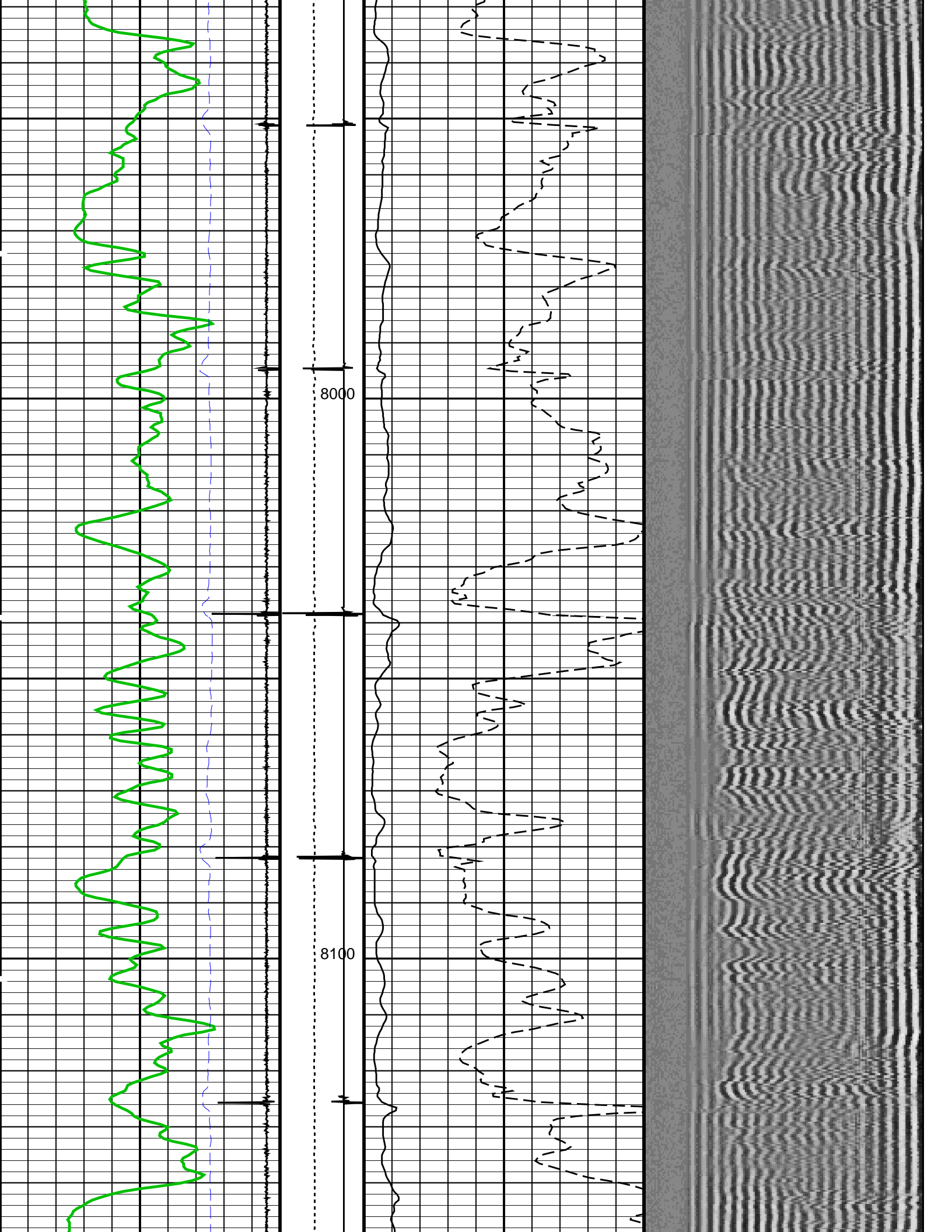


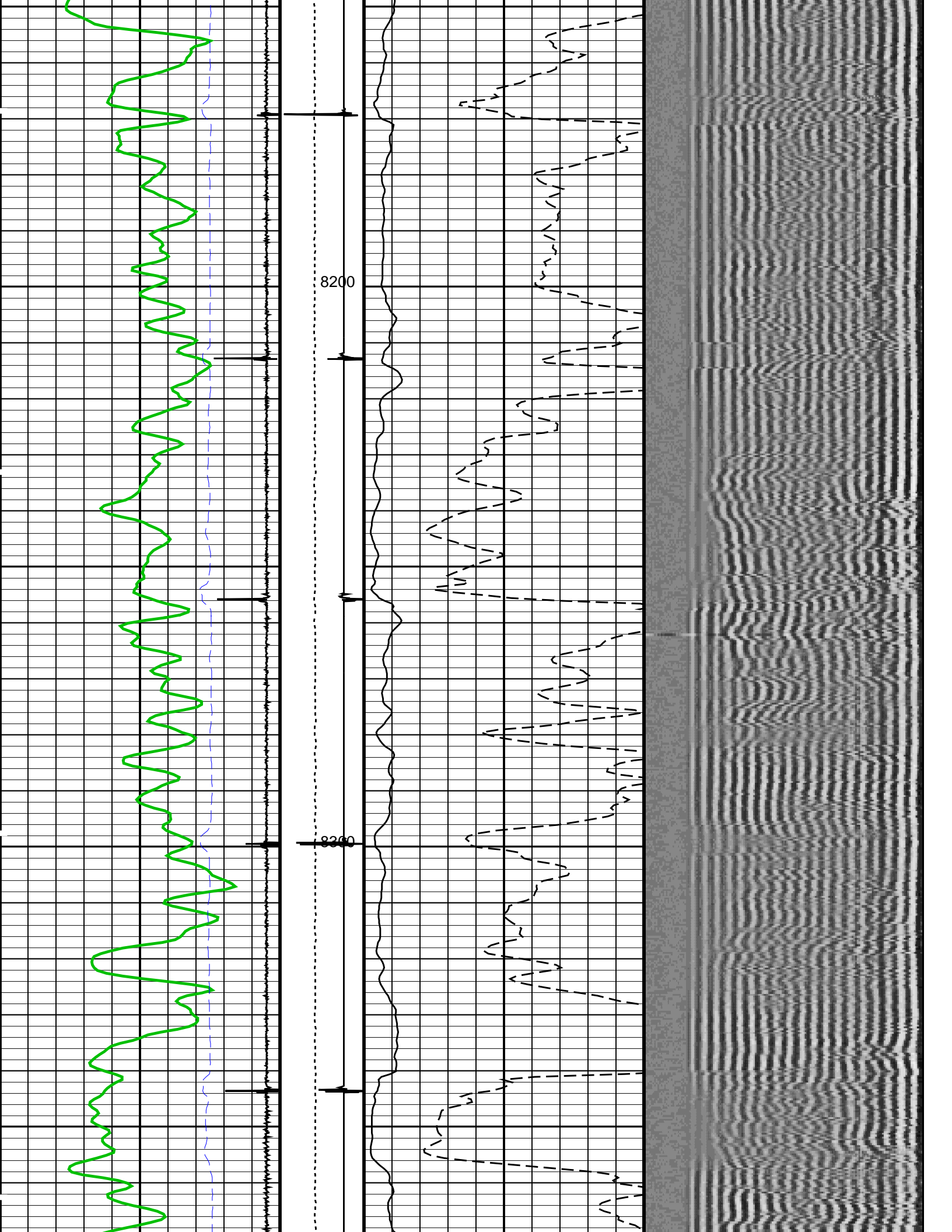


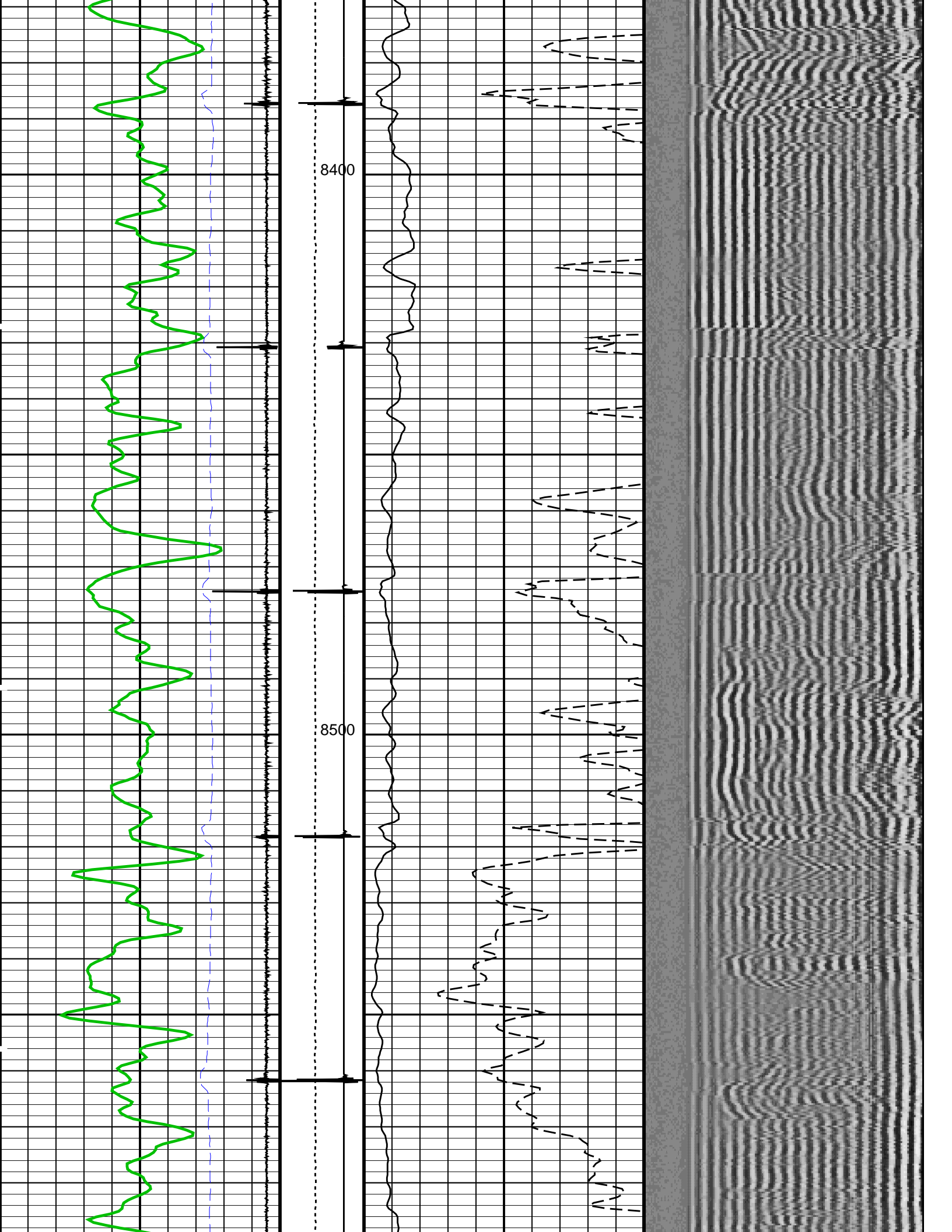


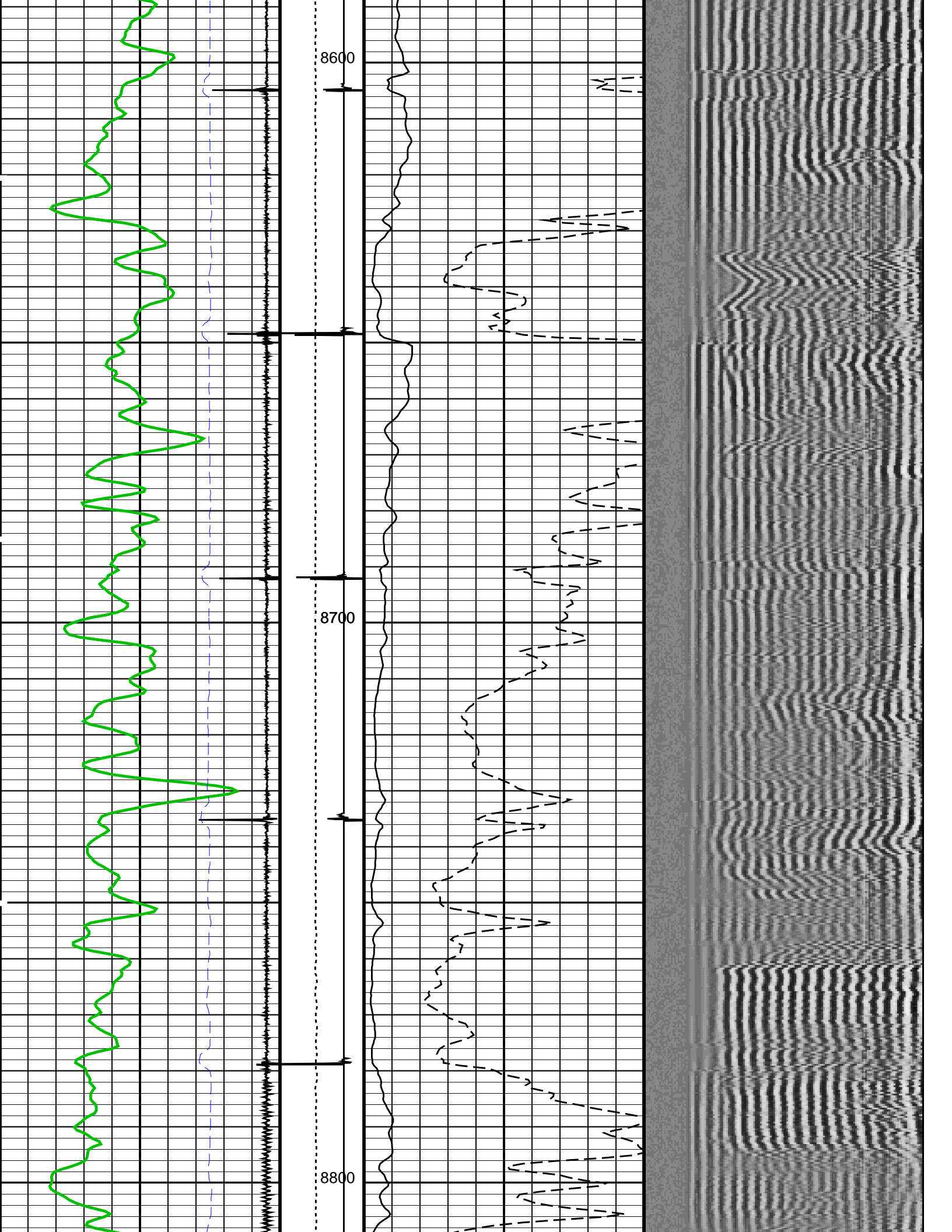


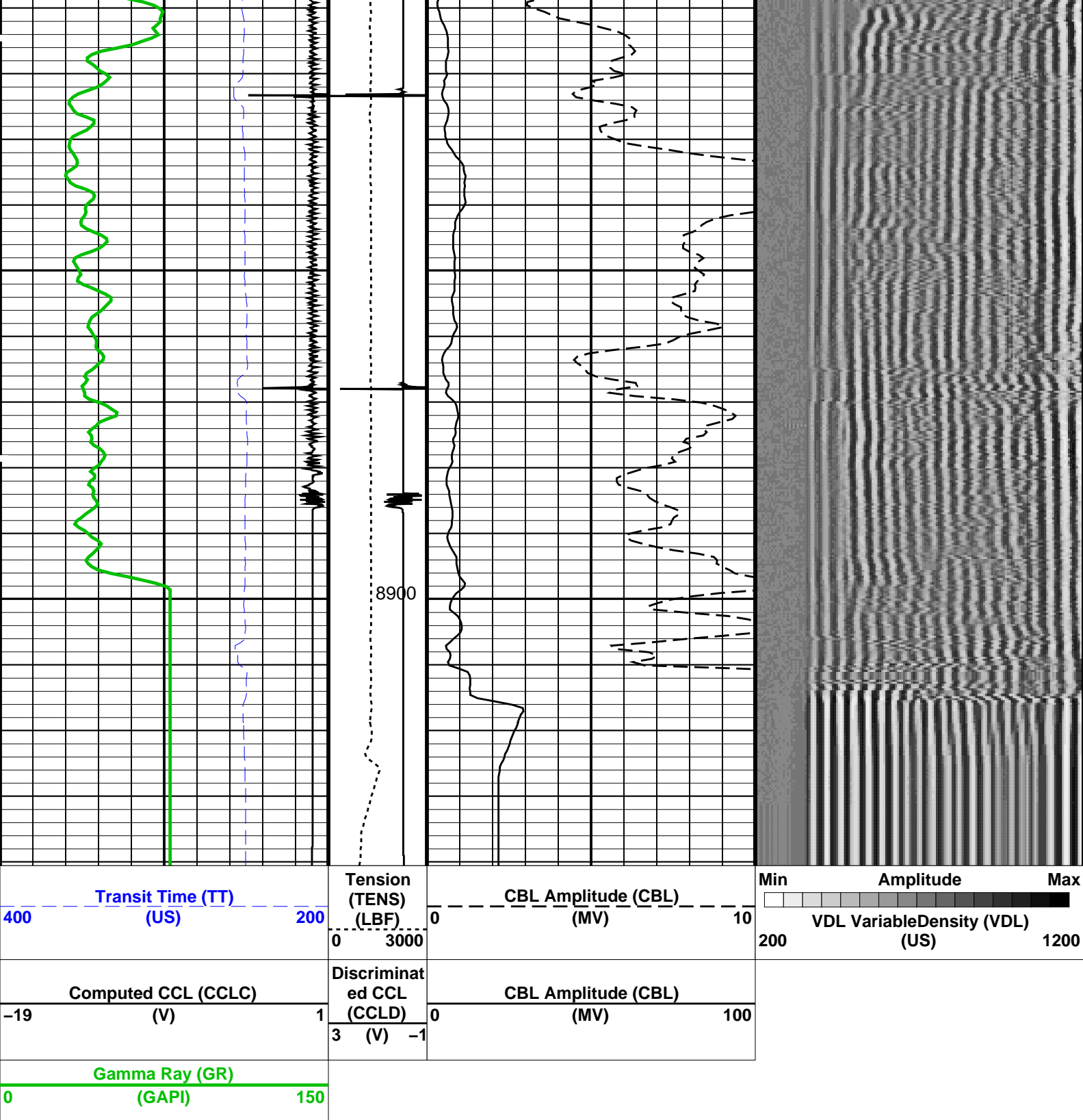












PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
SCMT-CB: Slim Cement Mapping Tool, 1-11/16 OD			
BILI	Bond Index Level for Zone Isolation	0.8	
BISS	Bond Index Source Selection for BIQL	BI	
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	224.559	US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK	
CB5G	SCMT CBL 5 ft Peak Detection T0_Delay and Noise Gate	338.559	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	40	US

CBRA	CBL LQC Reference Amplitude in Free Pipe	80	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CMTPT	SCMT Tool position on CAN	5	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.255617	IN
DTF	Delta-T Fluid	189	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	0.902782	
GOBO	Good Bond	1.55185	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	167.559	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	16.5449	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	4.32284	MV
MSA	Minimum Sonic Amplitude	0.579149	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
RBC	Relative Bearing Correction Allow/Disallow	ALLOW	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
RST-C: Reservoir Saturation Pro Tool C			
	Tractor Available in Tool String	NO	
AIRB	RST Air Borehole	No	
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
BSALOPT	RST Borehole Salinity Option	Unknown	
BSFL	RST Borehole Salinity Filter Length	51	
CSID	Casing Size I.D.	4	IN
DFPC	RST Depth Filter Processing Constant	One	
DFPC_TDTL	RST Depth Filter Processing Constant (TDT-like)	Two	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.48	
NORM_SIGM_RST	RST Normalized Sigma	30	CU
PTIER	RST Tiered Presentation Selection	0_Customer	
PVL_PSNT_PRST	PVL Peak Signal/Noise Threshold	3	
RGAI	Near/Far Gain Calibration Ratio	1	
SHT	Surface Hole Temperature	68	DEGF
TIER_IC	RST IC Acquisition Mode	0_CO_Yield_and_Spectrolith	
TIER_SIGM	RST Sigma Acquisition Mode	0_RST_Sigma	
WOFSL_PRST	RST WFL-Off Subcycle Length	0	
WONSL_PRST	RST WFL-On Subcycle Length	0	
WSCOM_PRST	RST Station Log Comment		
PSPT: Production Services Logging Platform			
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
CSID	Casing Size I.D.	4	IN
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
PBPO	PBMS Tool position on CAN	2	
PCCG	PBMS CCL Gain	DB12	
PSTP	PSTC Tool Position on CAN Bus	1	
SHT	Surface Hole Temperature	68	DEGF
System and Miscellaneous			
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	4.500	IN
CWEI	Casing Weight	11.60	LB/F
DFD	Drilling Fluid Density	8.60	LB/G
DO	Depth Offset for Playback	-0.5	FT
FLEV	Fluid Level	13.00	FT
MST	Mud Sample Temperature	-50000.00	DEGF
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMB	Resistivity of Mud - BHT	-50000.0000	OHMM
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RMS	Resistivity of Mud Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	-50000	FT
TDD	Total Depth - Driller	8948.00	FT
TDI	Total Depth - Logger	8924.00	FT

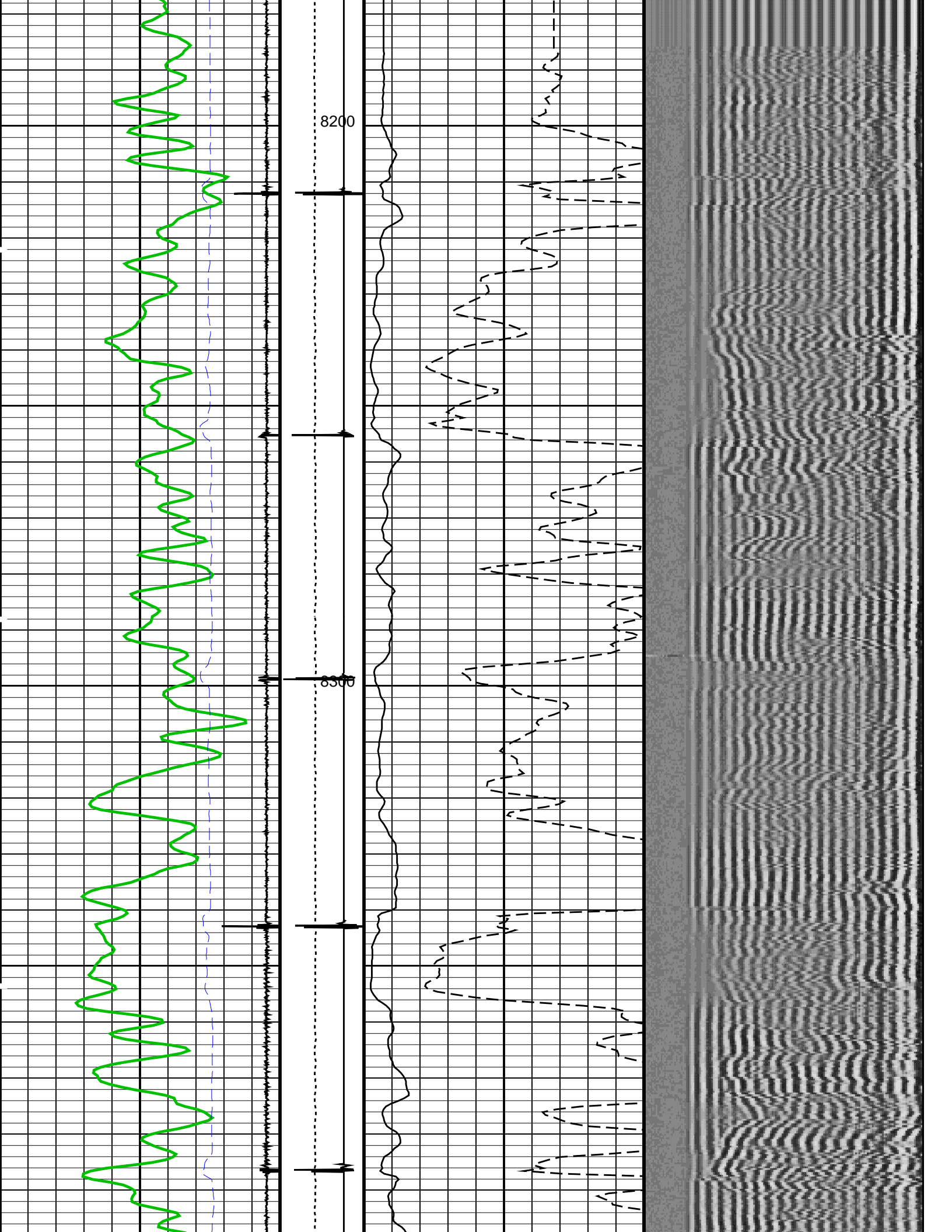
TWS	Temperature of Connate Water Sample	100.00	DEGF
Format: CBL_VDL	Vertical Scale: 5" per 100'	Graphics File Created: 07-Feb-2018 16:06	
OP System Version: 19C2-270			
SCMT-CB PSPT	SRPC-5318-Thrubit-SP3.4 SRPC-5318-Thrubit-SP3.4	RST-C	19C2-270
Input DLIS Files			
DEFAULT	SCMT_RST_PSP_004LUP	FN:3	PRODUCER 07-Feb-2018 15:08 8941.0 FT 6665.5 FT
Output DLIS Files			
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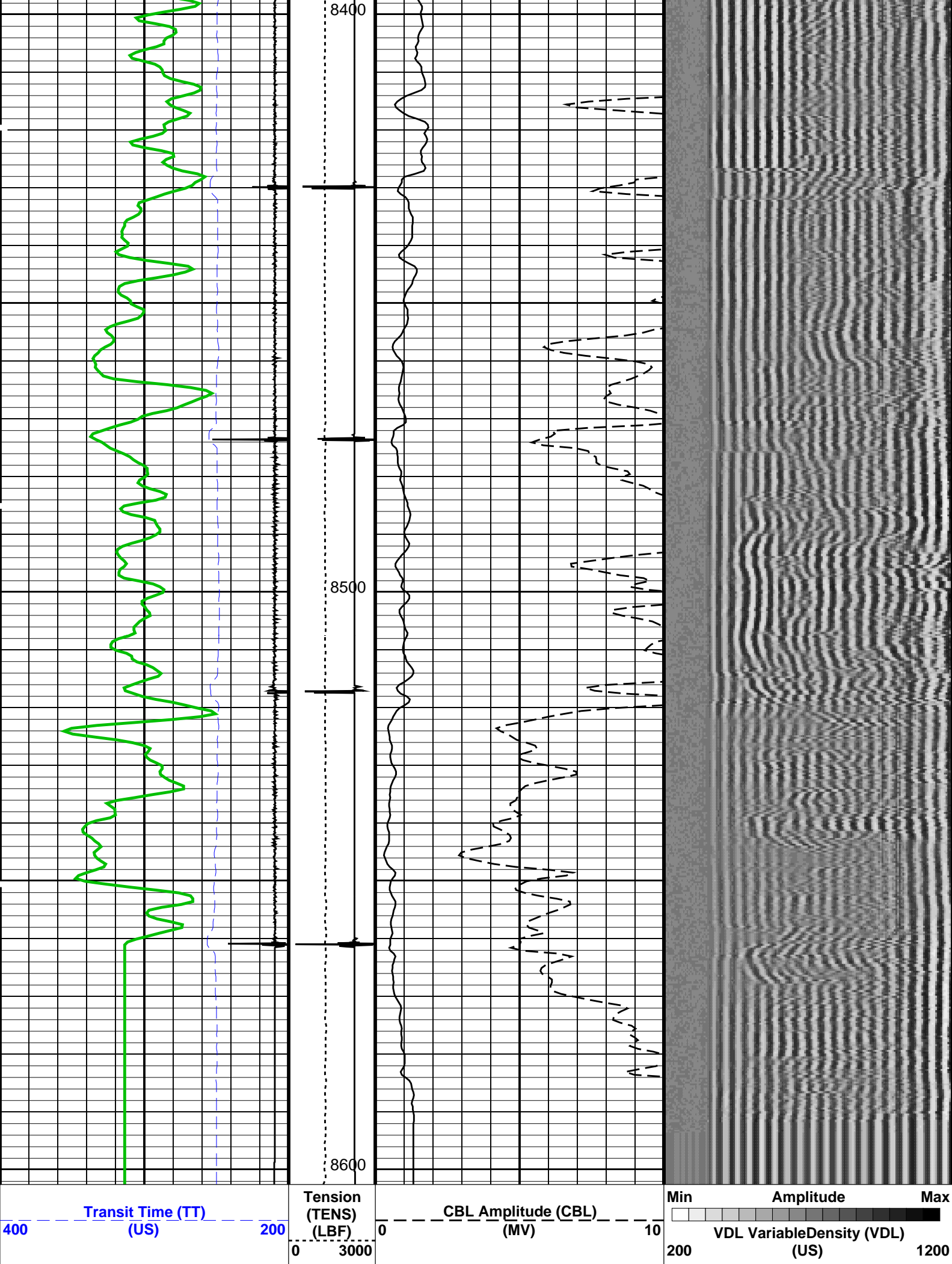


CBL Repeat Pass

MAXIS Field Log

Company: CAERUS OPERATING LLC		Well: Puckett 24C-23 697	
Output DLIS Files			
DEFAULT	SCMT_RST_PSP_006LUP	FN:5	PRODUCER 07-Feb-2018 15:53
OP System Version: 19C2-270			
SCMT-CB PSPT	SRPC-5318-Thrubit-SP3.4 SRPC-5318-Thrubit-SP3.4	RST-C	19C2-270
PIP SUMMARY			
Time Mark Every 60 S			
Gamma Ray (GR) (GAPI)			
0150			
Computed CCL (CCLC) (V)	Discriminat ed CCL (CCLD) (V)	CBL Amplitude (CBL) (MV)	
-191	3-1	0100	
Transit Time (TT) (US)	Tension (TENS) (LBF)	CBL Amplitude (CBL) (MV)	MinAmplitudeMax
400200	03000	010	VDL VariableDensity (VDL) (US)
		2001200	





Computed CCL (CCLC)		Discriminat	CBL Amplitude (CBL)	
-19	(V)	1	0	100
		3 (V) -1		
Gamma Ray (GR)				
0	(GAPI)	150		

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
SCMT-CB: Slim Cement Mapping Tool, 1-11/16 OD			
BILI	Bond Index Level for Zone Isolation	0.8	
BISS	Bond Index Source Selection for BIQL	BI	
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK	
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	224.559	US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK	
CB5G	SCMT CBL 5 ft Peak Detection T0_Delay and Noise Gate	338.559	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	40	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	80	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CMTF	SCMT Tool position on CAN	5	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.255617	IN
DTF	Delta-T Fluid	189	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	0.902782	
GOBO	Good Bond	1.55185	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	167.559	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	16.5449	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	4.32284	MV
MSA	Minimum Sonic Amplitude	0.579149	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
RBC	Relative Bearing Correction Allow/Disallow	ALLOW	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
RST-C: Reservoir Saturation Pro Tool C			
	Tractor Available in Tool String	NO	
AIRB	RST Air Borehole	No	
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
BSALOPT	RST Borehole Salinity Option	Unknown	
BSFL	RST Borehole Salinity Filter Length	51	
CSID	Casing Size I.D.	4	IN
DFPC	RST Depth Filter Processing Constant	One	
DFPC_TDTL	RST Depth Filter Processing Constant (TDT-like)	Two	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.48	
NORM_SIGM_RST	RST Normalized Sigma	30	CU
PTIER	RST Tiered Presentation Selection	0_Customer	
PVL_PSNT_PRST	PVL Peak Signal/Noise Threshold	3	
RGAI	Near/Far Gain Calibration Ratio	1	
SHT	Surface Hole Temperature	68	DEGF
TIER_IC	RST IC Acquisition Mode	0_CO_Yield_and_Spectrolith	
TIER_SIGM	RST Sigma Acquisition Mode	0_RST_Sigma	
WOFSL_PRST	RST WFL-Off Subcycle Length	0	
WONSL_PRST	RST WFL-On Subcycle Length	0	
WSCOM_PRST	RST Station Log Comment		
PSPT: Production Services Logging Platform			
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
CSID	Casing Size I.D.	4	IN
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG

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GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
PBPO	PBMS Tool position on CAN	2	
PCCG	PBMS CCL Gain	DB12	
PSTP	PSTC Tool Position on CAN Bus	1	
SHT	Surface Hole Temperature	68	DEGF
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	4.500	IN
CWEI	Casing Weight	11.60	LB/F
DFD	Drilling Fluid Density	8.60	LB/G
FLEV	Fluid Level	13.00	FT
MST	Mud Sample Temperature	-50000.00	DEGF
PBVSADP	Use alternate depth channel for playback	NO	
RMB	Resistivity of Mud - BHT	-50000.0000	OHMM
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RMS	Resistivity of Mud Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	-50000	FT
TDD	Total Depth - Driller	8948.00	FT
TDL	Total Depth - Logger	8924.00	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

Format: CBL_VDL

Vertical Scale: 5" per 100'

Graphics File Created: 07-Feb-2018 15:53

OP System Version: 19C2-270			
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PSPT	SRPC-5318-Thrubit-SP3.4		
Output DLIS Files			
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CBL Freepipe Pass

MAXIS Field Log

Company: CAERUS OPERATING LLC

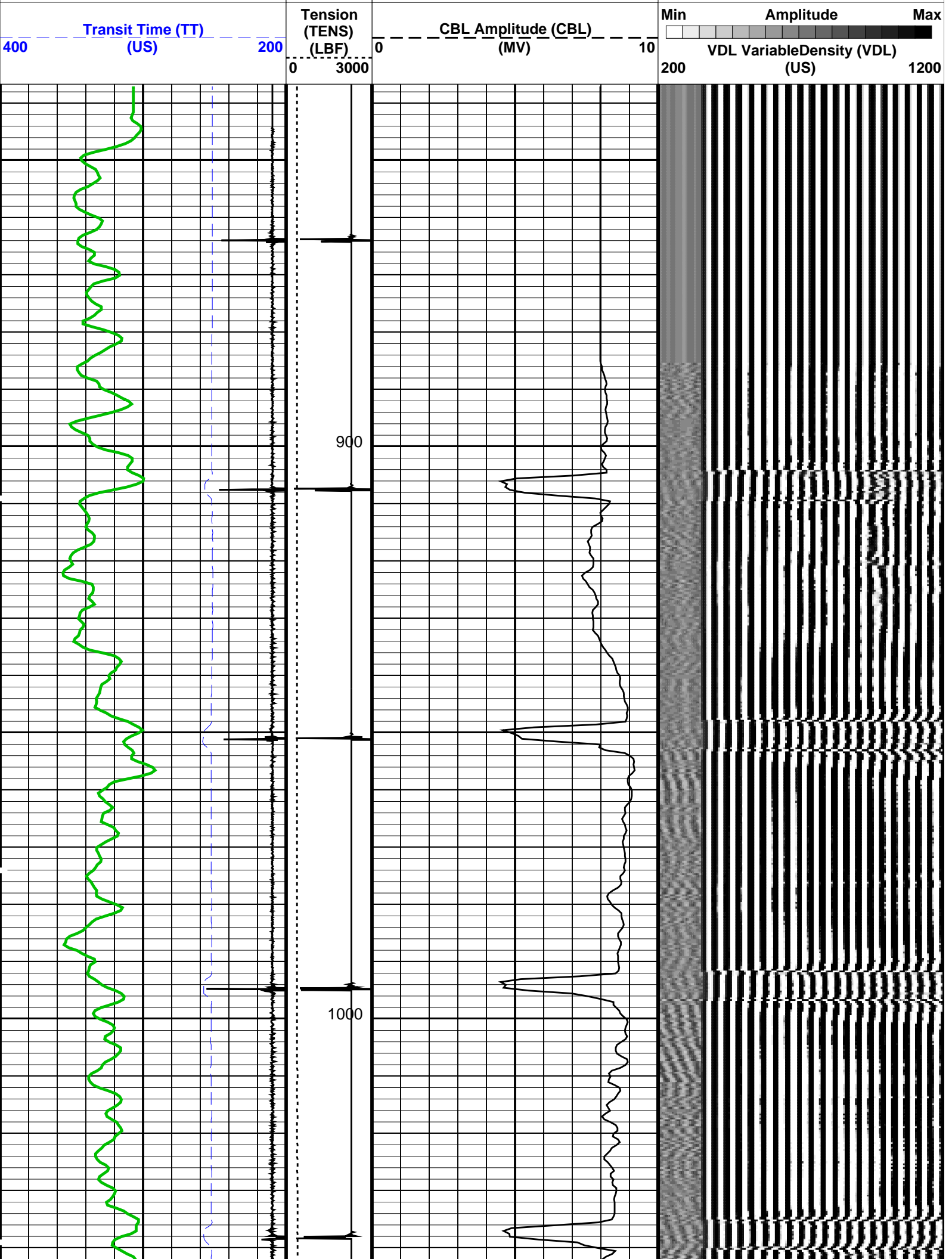
Well: Puckett 24C-23 697

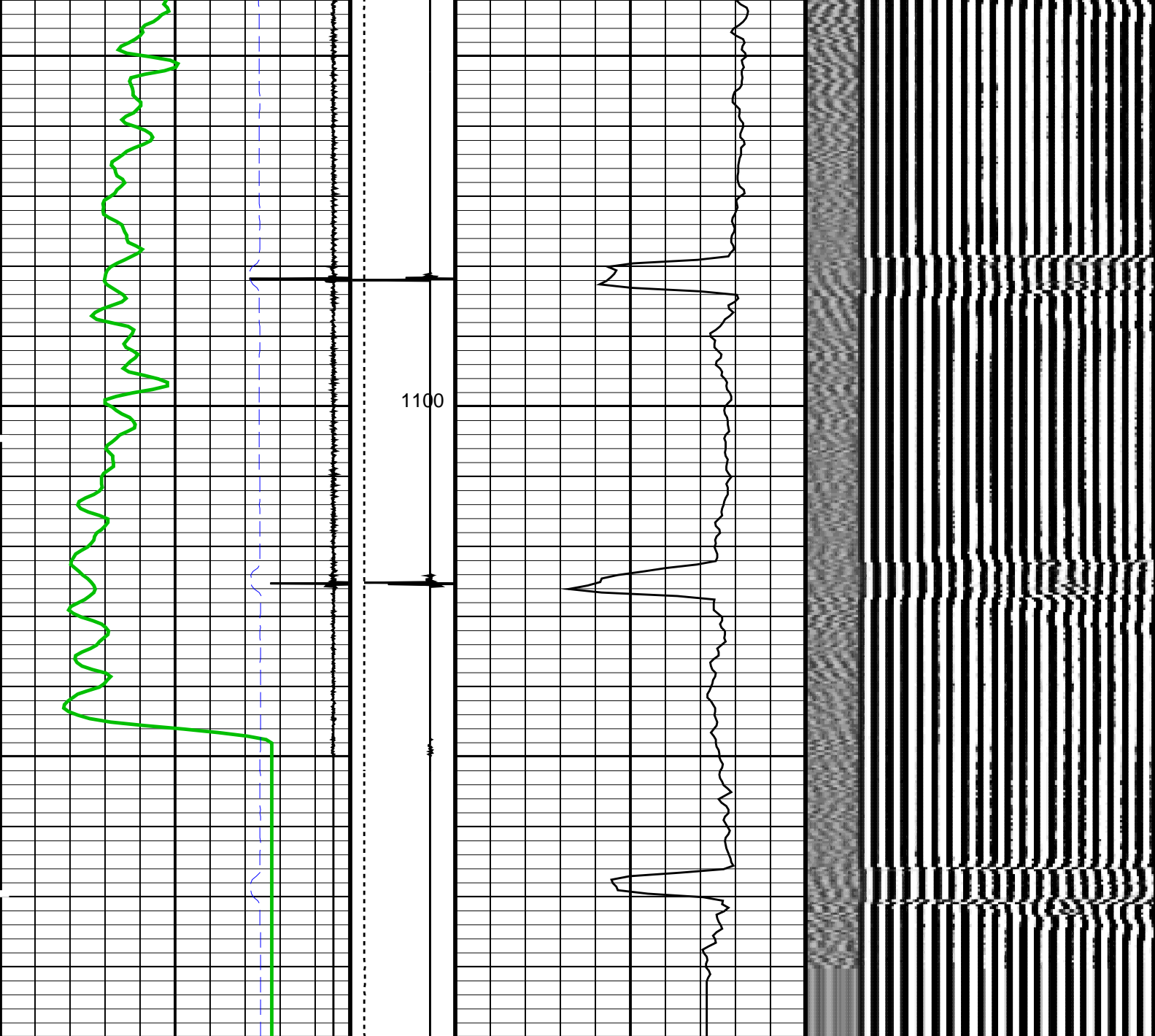
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OP System Version: 19C2-270			
SCMT-CB	SRPC-5318-Thrubit-SP3.4	RST-C	19C2-270
PSPT	SRPC-5318-Thrubit-SP3.4		

PIP SUMMARY

Time Mark Every 60 S

Gamma Ray (GR)			
0	(GAPI)	150	
Computed CCL (CCLC)		Discriminat	CBL Amplitude (CBL)
-19	(V)	1	0
		3 (V)	-1
			100





Transit Time (TT) (US)		Tension (TENS) (LBF)	CBL Amplitude (CBL) (MV)		Min	Amplitude	Max
400	200	0	0	10			
Computed CCL (CCLC) (V)		Discriminat ed CCL (CCLD) (V)	CBL Amplitude (CBL) (MV)		VDL VariableDensity (VDL) (US)		
-19	1	3 -1	0	100	200		1200
Gamma Ray (GR) (GAPI)							
0	150						

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
SCMT-CB	Slim Cement Mapping Tool, 1-11/16 OD	
BILI	Bond Index Level for Zone Isolation	0.8
BISS	Bond Index Source Selection for BIQL	BI
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK

CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	224.559	US
CB3T	SCMT CBL 3 ft Fixed Threshold Level	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	PEAK	
CB5G	SCMT CBL 5 ft Peak Detection T0_Delay and Noise Gate	338.559	US
CB5T	SCMT CBL 5 ft Fixed Threshold Level	20	MV
CBLG	CBL Gate Width	40	US
CBRA	CBL LQC Reference Amplitude in Free Pipe	80	MV
CMCF	CBL Cement Type Compensation Factor	1	
CMTC	SCMT Slow Channel Multiplexer Mode	SCAN	
CMTM	SCMT Operating Mode	LOG	
CMTPT	SCMT Tool position on CAN	5	
CSCS	SCMT Slow Channel Index	VCC	
CTHI	Casing Thickness	0.255617	IN
DTF	Delta-T Fluid	189	US/F
FATT	Acoustic Attenuation due to Fluid	0	DB/F
FCF	CBL Fluid Compensation Factor	0.902782	
GOBO	Good Bond	1.55185	MV
MAPD	SCMT MAP Peak Detection Mode	PEAK	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	167.559	US
MAPT	SCMT MAP Fixed Threshold Level	30	MV
MATT	Maximum Attenuation	16.5449	DB/F
MCCF	MAP Cement Type Compensation Factor	1	
MCI	Minimum Cemented Interval for Isolation	1.25	FT
MMSA	MAP Minimum Sonic Amplitude	4.32284	MV
MSA	Minimum Sonic Amplitude	0.579149	MV
PEDE	Peak Detection On/Off Switch in Playback	OFF	
RBC	Relative Bearing Correction Allow/Disallow	ALLOW	
VDLG	VDL Manual Gain	5	
ZCMT	Acoustic Impedance of Cement	6.8	MRAY
RST-C: Reservoir Saturation Pro Tool C			
	Tractor Available in Tool String	NO	
AIRB	RST Air Borehole	No	
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
BSALOPT	RST Borehole Salinity Option	Unknown	
BSFL	RST Borehole Salinity Filter Length	51	
CSID	Casing Size I.D.	4	IN
DFPC	RST Depth Filter Processing Constant	One	
DFPC_TDTL	RST Depth Filter Processing Constant (TDT-like)	Two	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.48	
NORM_SIGM_RST	RST Normalized Sigma	30	CU
PTIER	RST Tiered Presentation Selection	0_Customer	
PVL_PSNT_PRST	PVL Peak Signal/Noise Threshold	3	
RGAI	Near/Far Gain Calibration Ratio	1	
SHT	Surface Hole Temperature	68	DEGF
TIER_IC	RST IC Acquisition Mode	0_CO_Yield_and_Spectrolith	
TIER_SIGM	RST Sigma Acquisition Mode	0_RST_Sigma	
WOFSL_PRST	RST WFL-Off Subcycle Length	0	
WONSL_PRST	RST WFL-On Subcycle Length	0	
WSCOM_PRST	RST Station Log Comment		
PSPT: Production Services Logging Platform			
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
CSID	Casing Size I.D.	4	IN
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
PBPO	PBMS Tool position on CAN	2	
PCCG	PBMS CCL Gain	DB12	
PSTP	PSTC Tool Position on CAN Bus	1	
SHT	Surface Hole Temperature	68	DEGF
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	4.500	IN
CWEI	Casing Weight	11.60	LB/F
DFD	Drilling Fluid Density	8.60	LB/G
FLEV	Fluid Level	13.00	FT
MST	Mud Sample Temperature	-50000.00	DEGF
PBVSADP	Use alternate depth channel for playback	NO	
RMB	Resistivity of Mud - BHT	-50000.0000	OHMM
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RMS	Resistivity of Mud Sample	50000.0000	OHMM

RMS	Resistivity of Mud Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	-50000	FT
TDD	Total Depth - Driller	9468.00	FT
TDL	Total Depth - Logger	9453.00	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

Format: CBL_VDL Vertical Scale: 5" per 100' Graphics File Created: 07-Feb-2018 14:25

OP System Version: 19C2-270

SCMT-CB SRPC-5318-Thrubit-SP3.4 RST-C 19C2-270
PSPT SRPC-5318-Thrubit-SP3.4

Output DLIS Files

DEFAULT SCMT_RST_PSP_003LUP FN:2 PRODUCER 07-Feb-2018 14:25

Schlumberger

RST Main Pass

MAXIS Field Log

Company: CAERUS OPERATING LLC Well: Puckett 24C-23 697

Input DLIS Files

DEFAULT SCMT_RST_PSP_004LUP FN:3 PRODUCER 07-Feb-2018 15:08 8941.0 FT 6665.5 FT

Output DLIS Files

DEFAULT SCMT_RST_PSP_009PUP FN:8 PRODUCER 07-Feb-2018 16:06 8940.5 FT 6617.0 FT

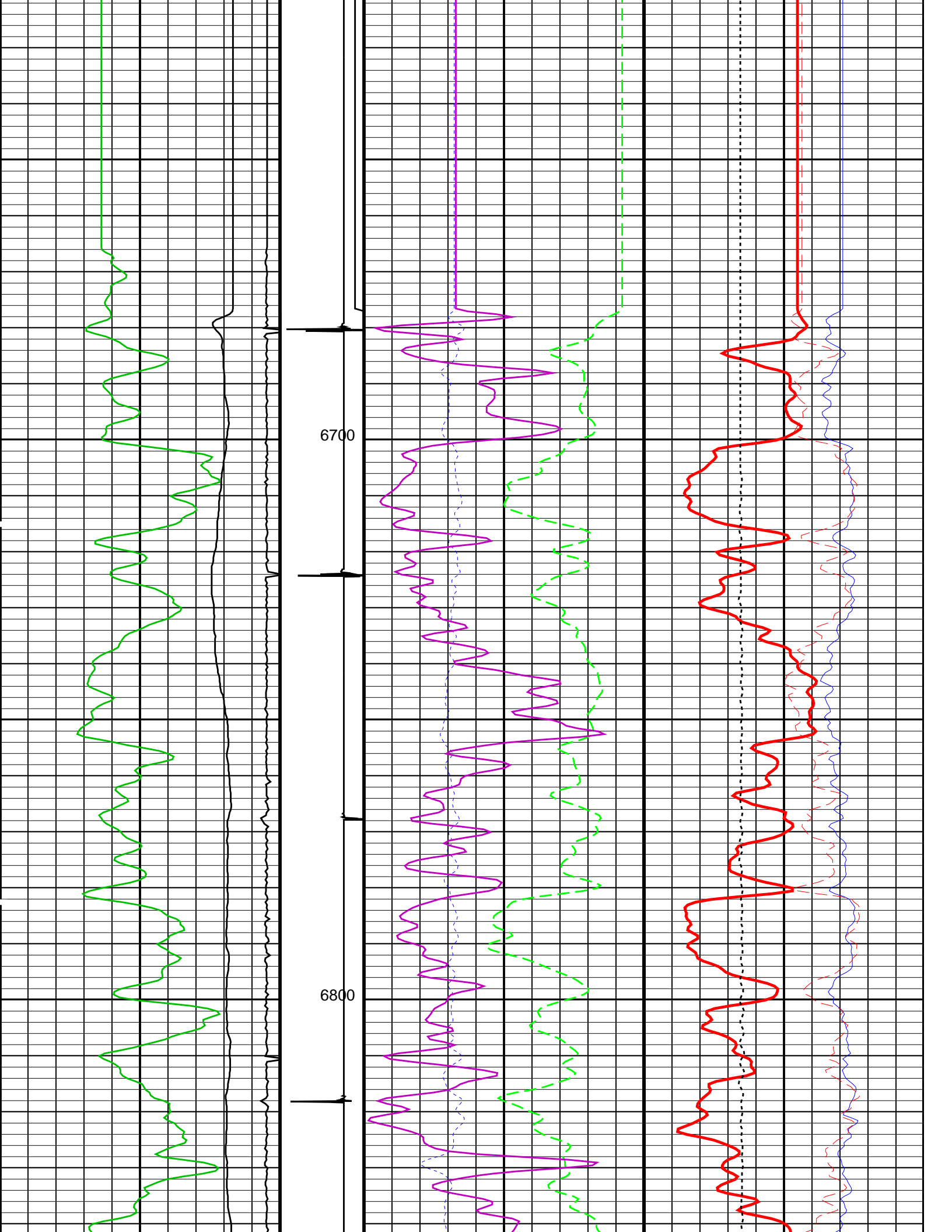
OP System Version: 19C2-270

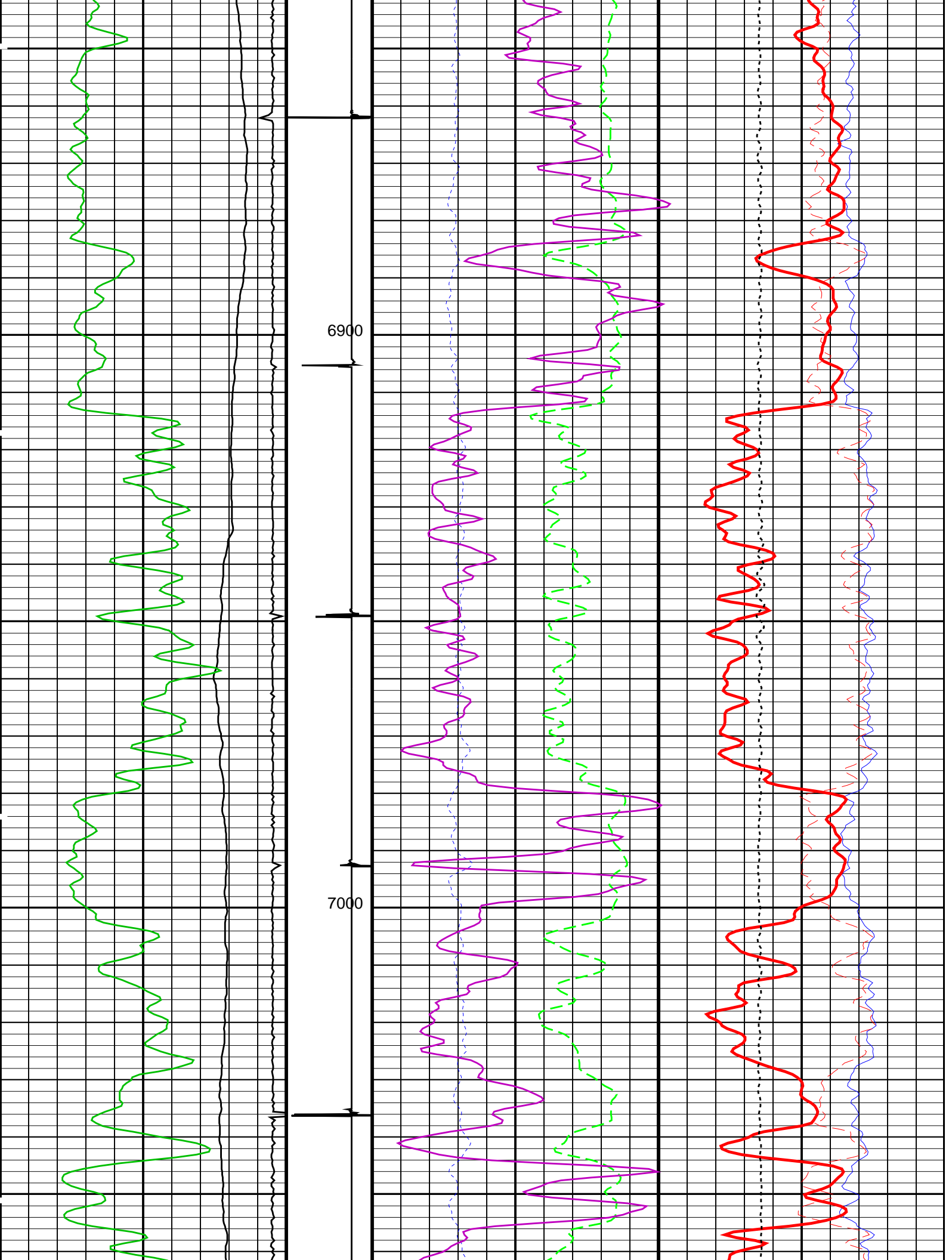
SCMT-CB SRPC-5318-Thrubit-SP3.4 RST-C 19C2-270
PSPT SRPC-5318-Thrubit-SP3.4

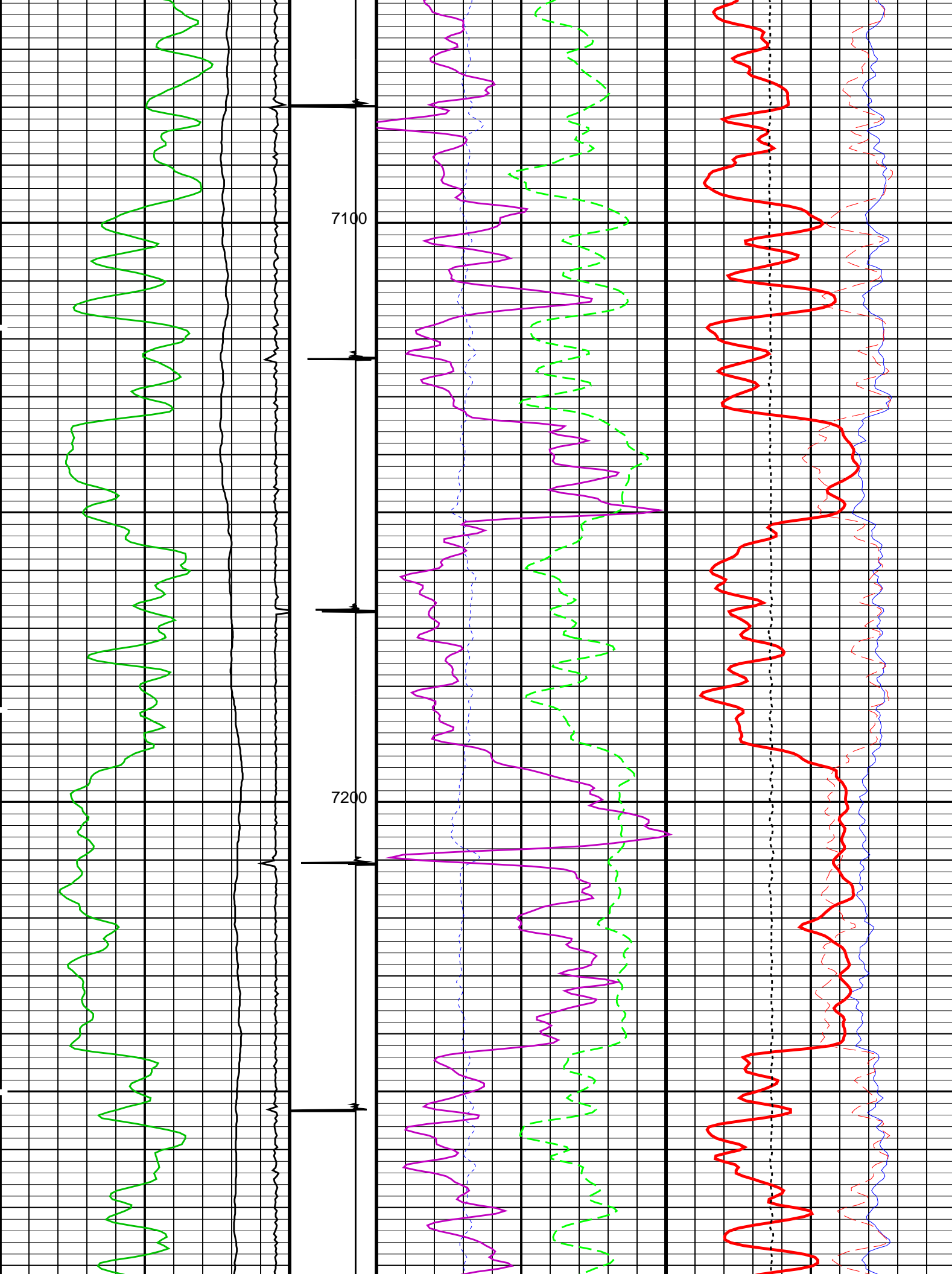
PIP SUMMARY

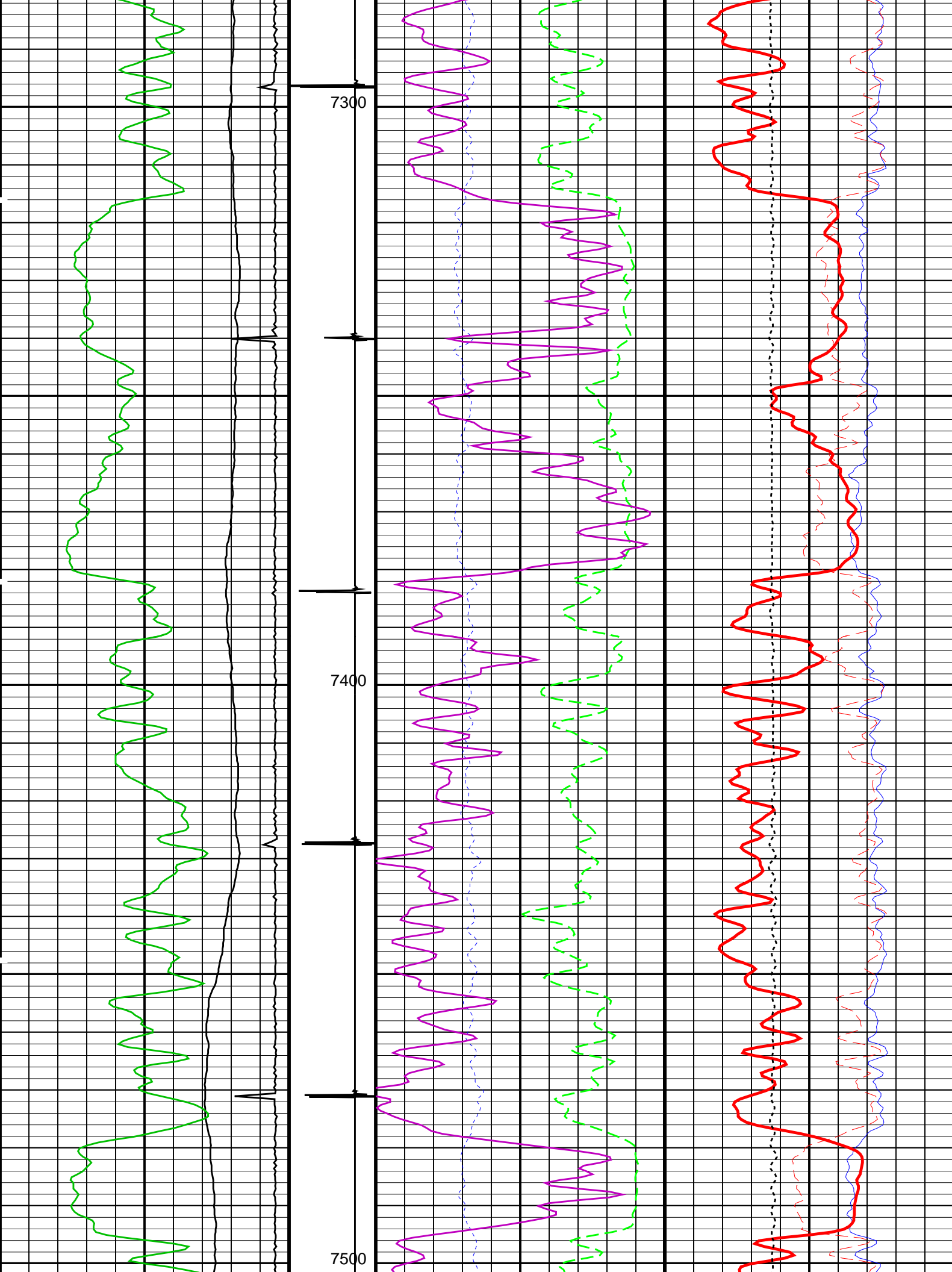
Time Mark Every 60 S

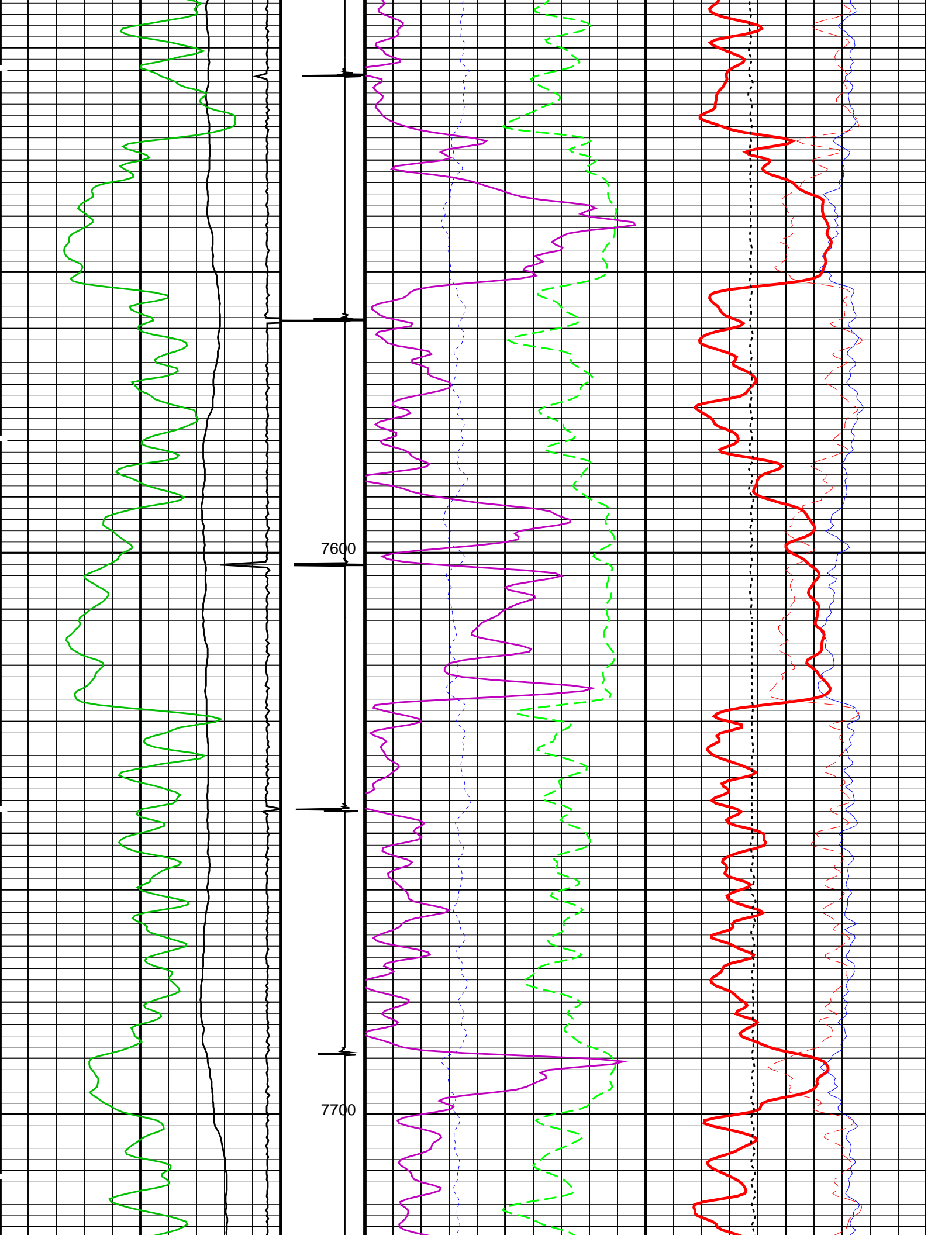
				Tension (TENS)			
				0		3000	
				(LBF)			
				RST Weighted Inelastic Ratio (WINR_RST)			
				0		0.4	
				(----			
Gamma Ray (GR)				RST Porosity (TPHI)		RST Far Effective Capture CR (RSCF_	
(GAPI)				(V/V)		RST)	
0				0.6		45	
150				0		0	
				(----			
(CCLC)				RST Sigma (SIGM)			
(V)				(CU)			
-19				60		0	
1							
Bad Level Diagnostic (BADL_DIAG)							
9				(----		0	
RST Borehole Salinity (BSAL)				RST Inelastic Ratio (IRAT_FIL)		RST Near Effective Capture CR (RSCN_	
(PPK)				(----		RST)	
450				0.75		45	
-50				0		0	
				(----			
Discriminat ed CCL (CCLD)							
3				(V)			
-1							

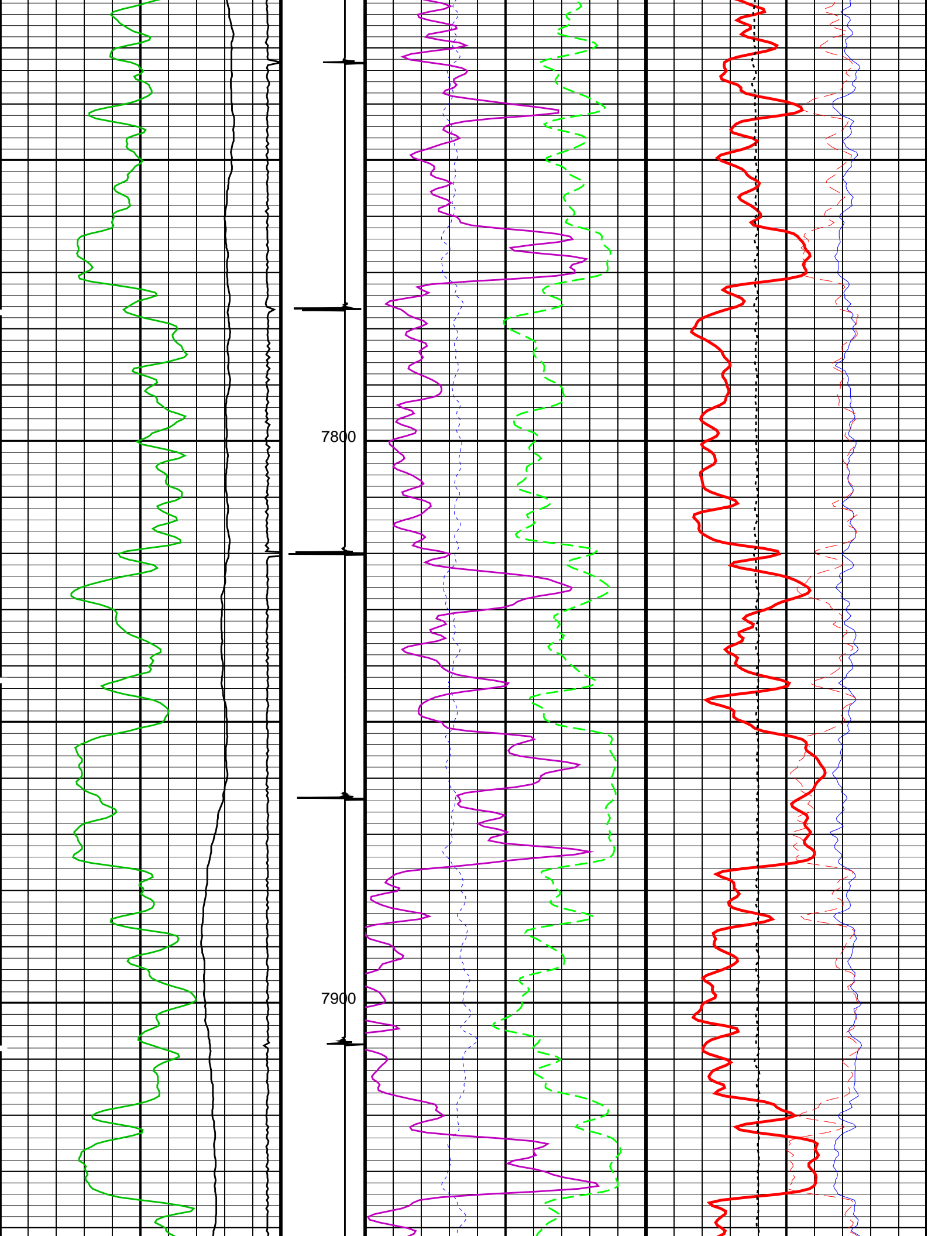


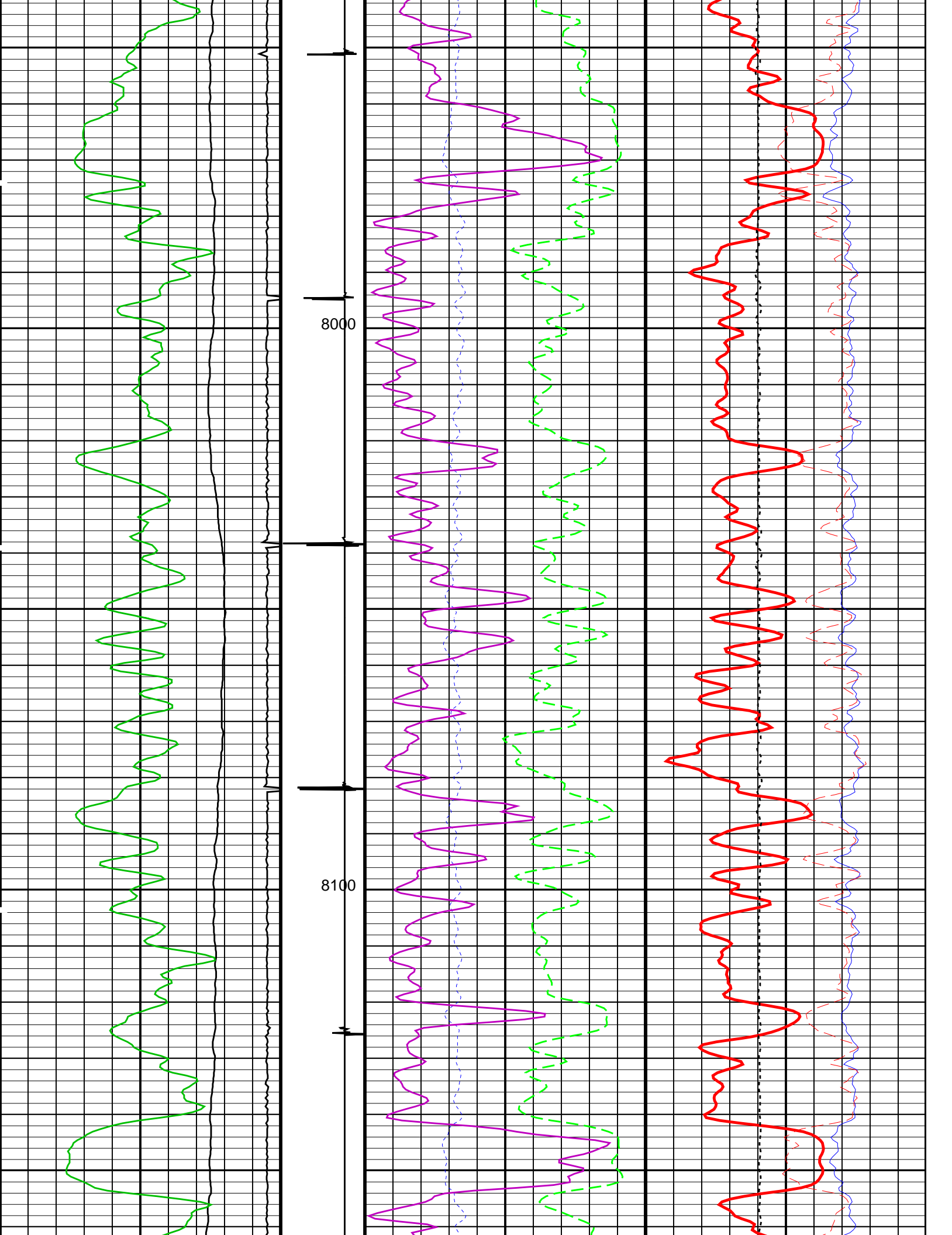


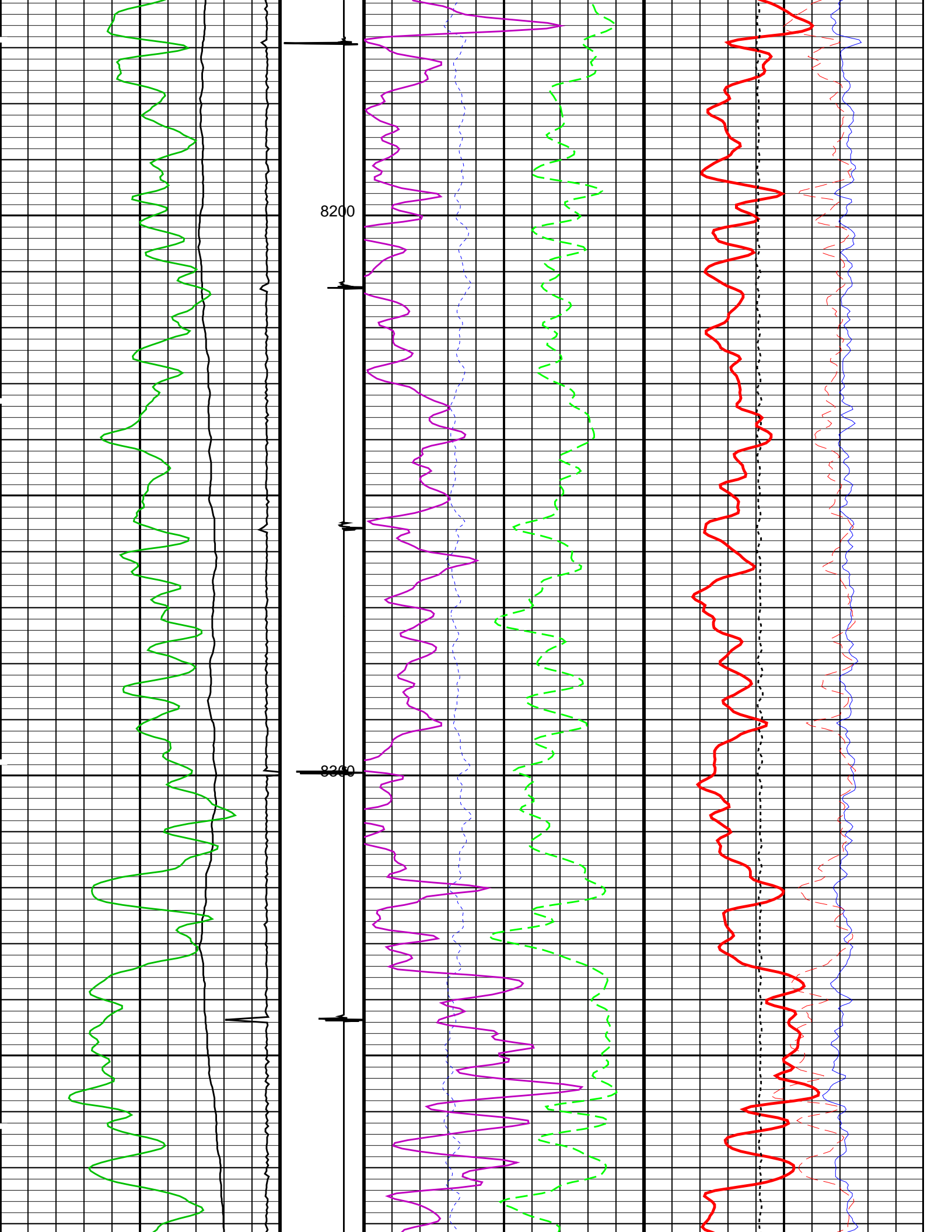


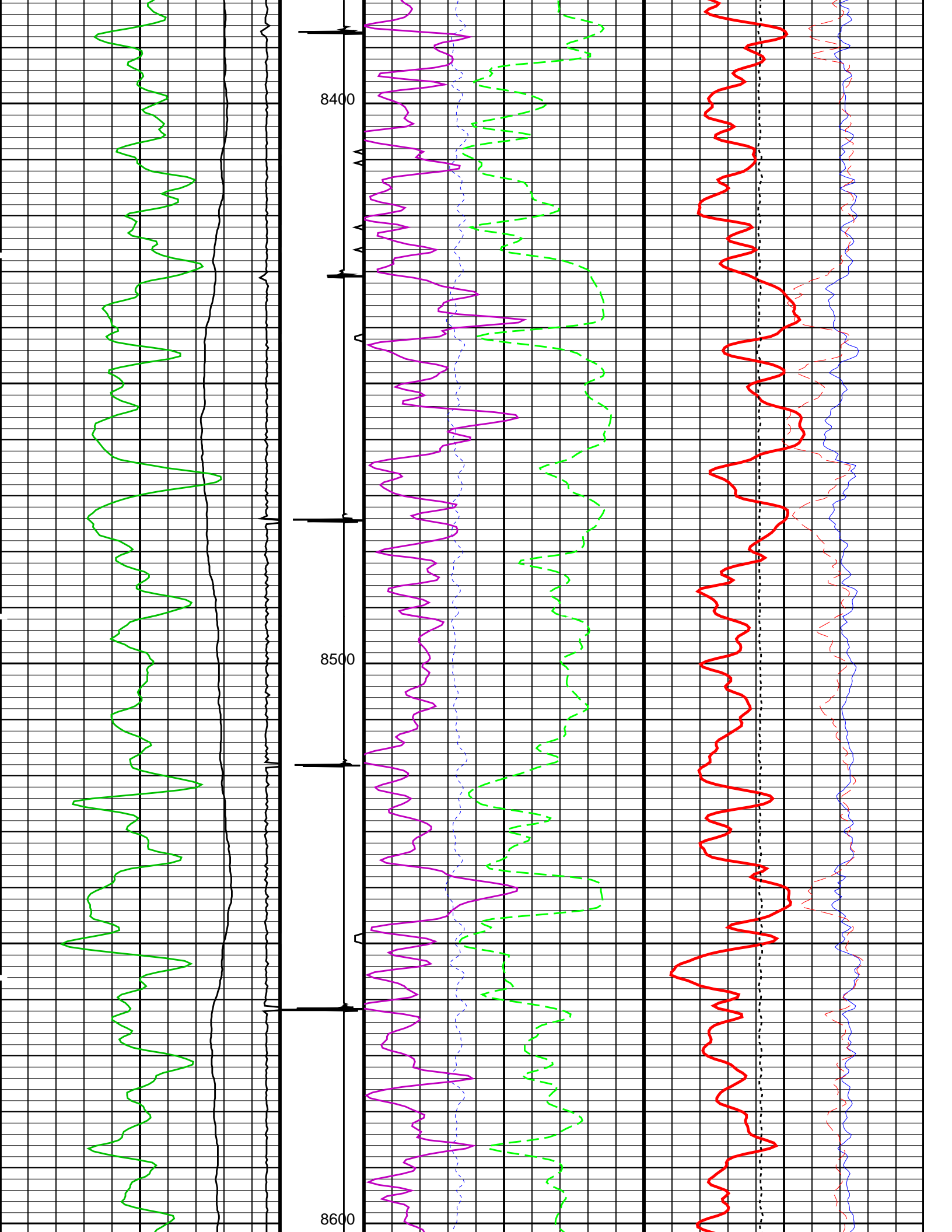


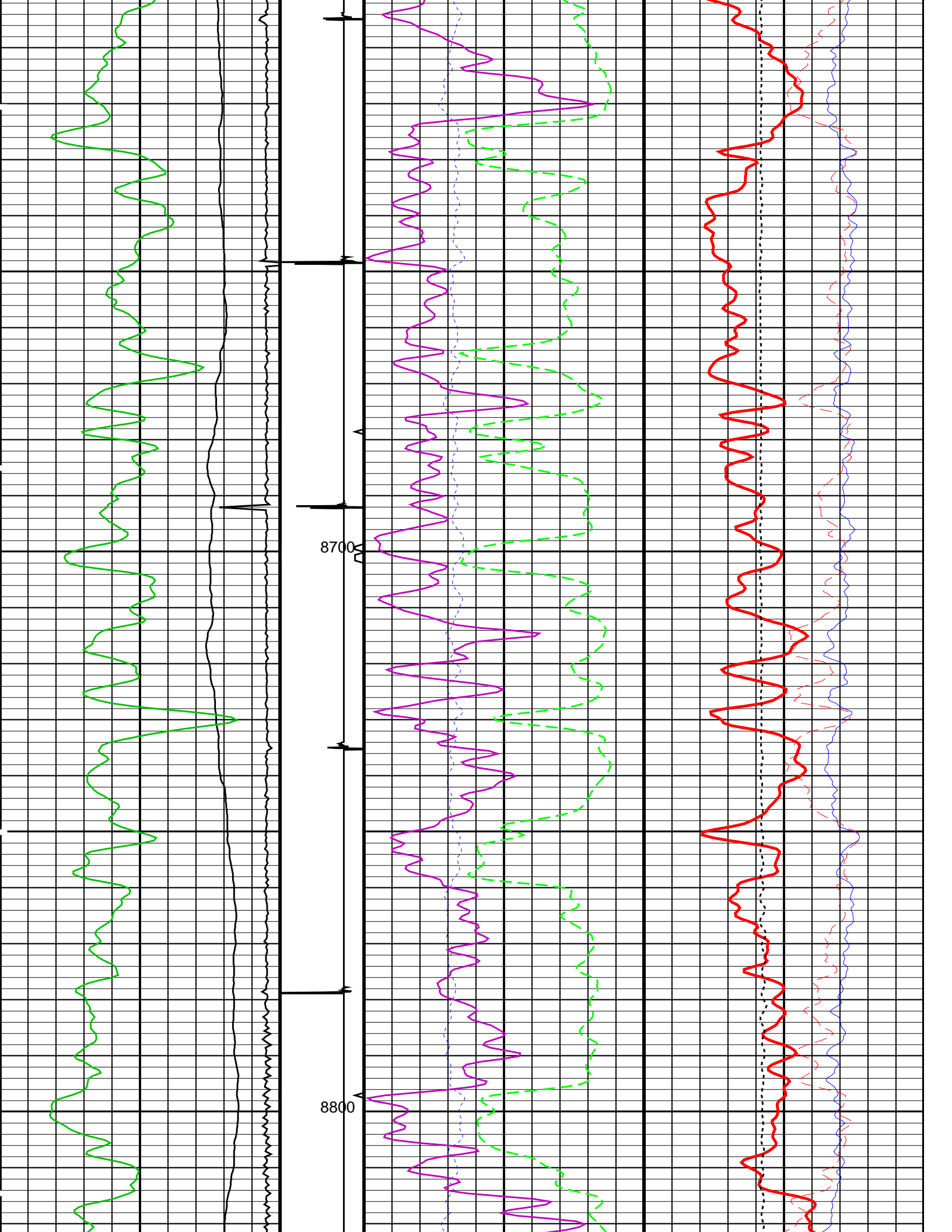


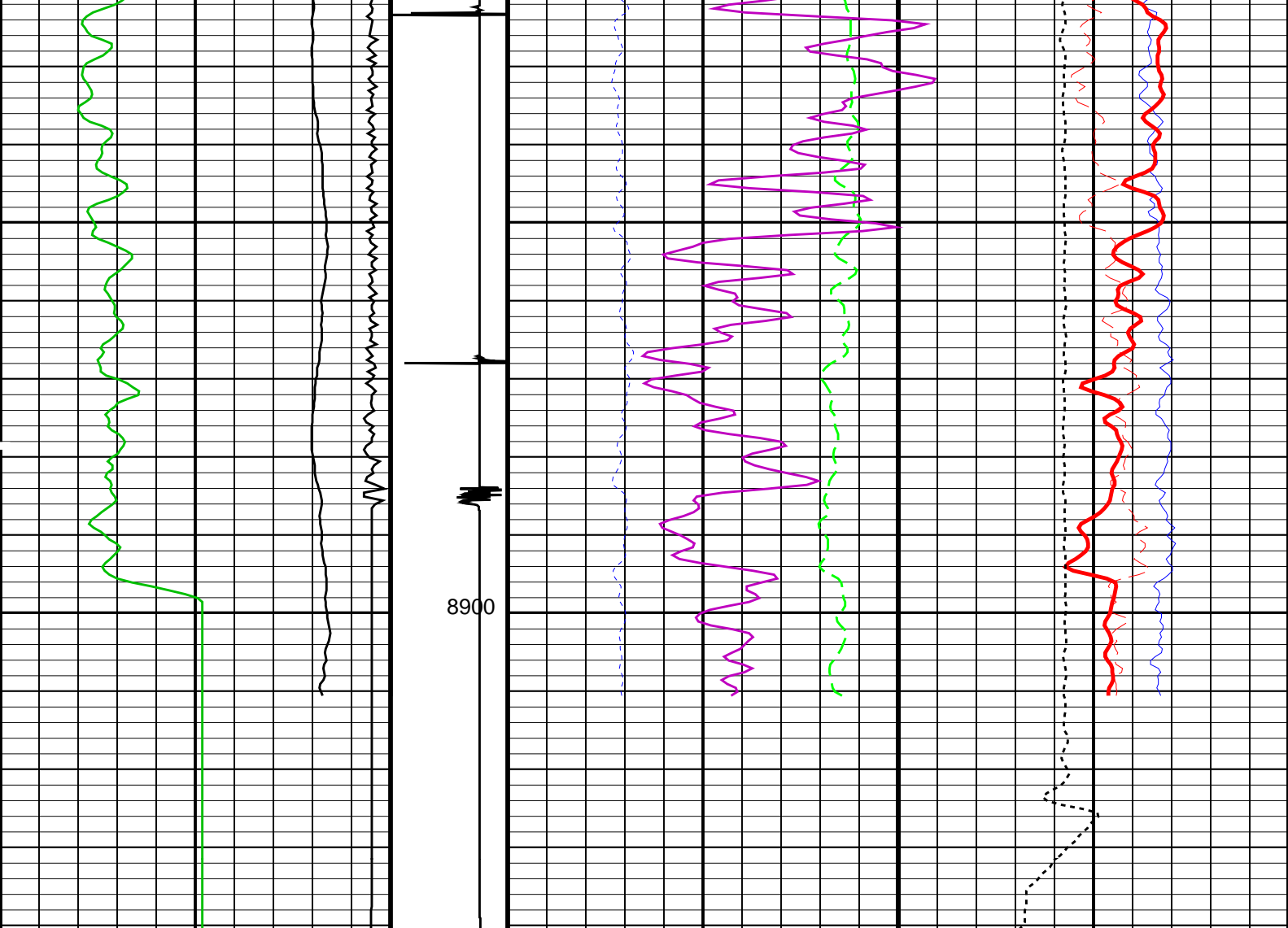












RST Borehole Salinity (BSAL)		Discriminat ed CCL (CCLD)	RST Inelastic Ratio (IRAT_FIL)		RST Near Effective Capture CR (RSCN_ RST)				
450	(PPK)		-50	0.75	(-----)	0	45	(-----)	0
(CCLC)		Bad Level Diagnostic (BADL_ DIAG)	RST Sigma (SIGM)						
-19	(V)		1	60	(CU)				0
Gamma Ray (GR)			RST Porosity (TPHI)			RST Far Effective Capture CR (RSCF_ RST)			
0	(GAPI)		150	0.6	(V/V)	0	45	(-----)	0
			RST Weighted Inelastic Ratio (WINR_RST)						
			0 (-----) 0.4						
								Tension (TENS)	
							0	(LBF)	3000

PIP SUMMARY

Time Mark Every 60 S

Parameters		
DLIS Name	Description	Value
SCMT-CB: Slim Cement Mapping Tool, 1-11/16 OD		
BILI	Bond Index Level for Zone Isolation	0.8
BISS	Bond Index Source Selection for BIQL	BI
CB3D	SCMT CBL 3 ft Peak Detection Mode	PEAK
CB3G	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	224.559
CB3T	SCMT CBL 3 ft Peak Detection T0_Delay and Noise Gate	US

CB3T	SCMT CBL 3 ft Fixed Threshold Level	PEAK	20	MV
CB5D	SCMT CBL 5 ft Peak Detection Mode	338.559	US	
CB5G	SCMT CBL 5 ft Peak Detection T0_Delay and Noise Gate	20	MV	
CB5T	SCMT CBL 5 ft Fixed Threshold Level	40	US	
CBLG	CBL Gate Width	80	MV	
CBRA	CBL LQC Reference Amplitude in Free Pipe	1		
CMCF	CBL Cement Type Compensation Factor	SCAN		
CMTC	SCMT Slow Channel Multiplexer Mode	LOG		
CMTM	SCMT Operating Mode	5		
CMTF	SCMT Tool position on CAN	VCC		
CSCS	SCMT Slow Channel Index	0.255617	IN	
CTHI	Casing Thickness	189	US/F	
DTF	Delta-T Fluid	0	DB/F	
FATT	Acoustic Attenuation due to Fluid	0.902782		
FCF	CBL Fluid Compensation Factor	1.55185	MV	
GOBO	Good Bond	PEAK		
MAPD	SCMT MAP Peak Detection Mode	167.559	US	
MAPG	SCMT MAP Peak Detection T0_Delay and Noise Gate	30	MV	
MAPT	SCMT MAP Fixed Threshold Level	16.5449	DB/F	
MATT	Maximum Attenuation	1		
MCCF	MAP Cement Type Compensation Factor	1.25	FT	
MCI	Minimum Cemented Interval for Isolation	4.32284	MV	
MMSA	MAP Minimum Sonic Amplitude	0.579149	MV	
MSA	Minimum Sonic Amplitude	OFF		
PEDE	Peak Detection On/Off Switch in Playback	ALLOW		
RBC	Relative Bearing Correction Allow/Disallow	5		
VDLG	VDL Manual Gain	6.8	MRAY	
ZCMT	Acoustic Impedance of Cement			
RST-C: Reservoir Saturation Pro Tool C				
	Tractor Available in Tool String	NO		
AIRB	RST Air Borehole	No		
BHS	Borehole Status	CASED		
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF	
BSALOPT	RST Borehole Salinity Option	Unknown		
BSFL	RST Borehole Salinity Filter Length	51		
CSID	Casing Size I.D.	4	IN	
DFPC	RST Depth Filter Processing Constant	One		
DFPC_TDTL	RST Depth Filter Processing Constant (TDT-like)	Two		
GCSE	Generalized Caliper Selection	BS		
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG	
GGRD	Geothermal Gradient	0.01	DF/F	
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9		
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
ISSBAR	Barite Mud Switch	NOBARITE		
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE		
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.48		
NORM_SIGM_RST	RST Normalized Sigma	30	CU	
PTIER	RST Tiered Presentation Selection	0_Customer		
PVL_PSNT_PRST	PVL Peak Signal/Noise Threshold	3		
RGAI	Near/Far Gain Calibration Ratio	1		
SHT	Surface Hole Temperature	68	DEGF	
TIER_IC	RST IC Acquisition Mode	0_CO_Yield_and_Spectrolith		
TIER_SIGM	RST Sigma Acquisition Mode	0_RST_Sigma		
WOFSL_PRST	RST WFL-Off Subcycle Length	0		
WONSL_PRST	RST WFL-On Subcycle Length	0		
WSCOM_PRST	RST Station Log Comment			
PSPT: Production Services Logging Platform				
BHS	Borehole Status	CASED		
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF	
CSID	Casing Size I.D.	4	IN	
GCSE	Generalized Caliper Selection	BS		
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG	
GGRD	Geothermal Gradient	0.01	DF/F	
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9		
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
ISSBAR	Barite Mud Switch	NOBARITE		
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE		
PBPO	PBMS Tool position on CAN	2		
PCCG	PBMS CCL Gain	DB12		
PSTP	PSTC Tool Position on CAN Bus	1		
SHT	Surface Hole Temperature	68	DEGF	
System and Miscellaneous				
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth		
BS	Bit Size	8.750	IN	
BSAL	Borehole Salinity	-50000.00	PPM	
CSIZ	Current Casing Size	4.500	IN	
CWEI	Casing Weight	11.60	LB/F	
DFD	Drilling Fluid Density	8.60	LB/G	
DO	Depth Offset for Playback	-0.5	FT	
FLEV	Fluid Level	13.00	FT	
MST	Mud Sample Temperature	-50000.00	DEGF	
PBVSADP	Use alternate depth channel for playback	NO		
PP	Playback Processing	NORMAL		
RMB	Resistivity of Mud - BHT	-50000.0000	OHMM	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM	

RMS	Resistivity of Mud Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	-50000	FT
TDD	Total Depth - Driller	8948.00	FT
TDL	Total Depth - Logger	8924.00	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

Format: RST_SIG_ANSW

Vertical Scale: 5" per 100'

Graphics File Created: 07-Feb-2018 16:06

OP System Version: 19C2-270						
SCMT-CB	SRPC-5318-Thrubit-SP3.4	RST-C		19C2-270		
PSPT	SRPC-5318-Thrubit-SP3.4					
Input DLIS Files						
DEFAULT	SCMT_RST_PSP_004LUP	FN:3	PRODUCER	07-Feb-2018 15:08	8941.0 FT	6665.5 FT
Output DLIS Files						
DEFAULT	SCMT_RST_PSP_009PUP	FN:8	PRODUCER	07-Feb-2018 16:06		

Schlumberger

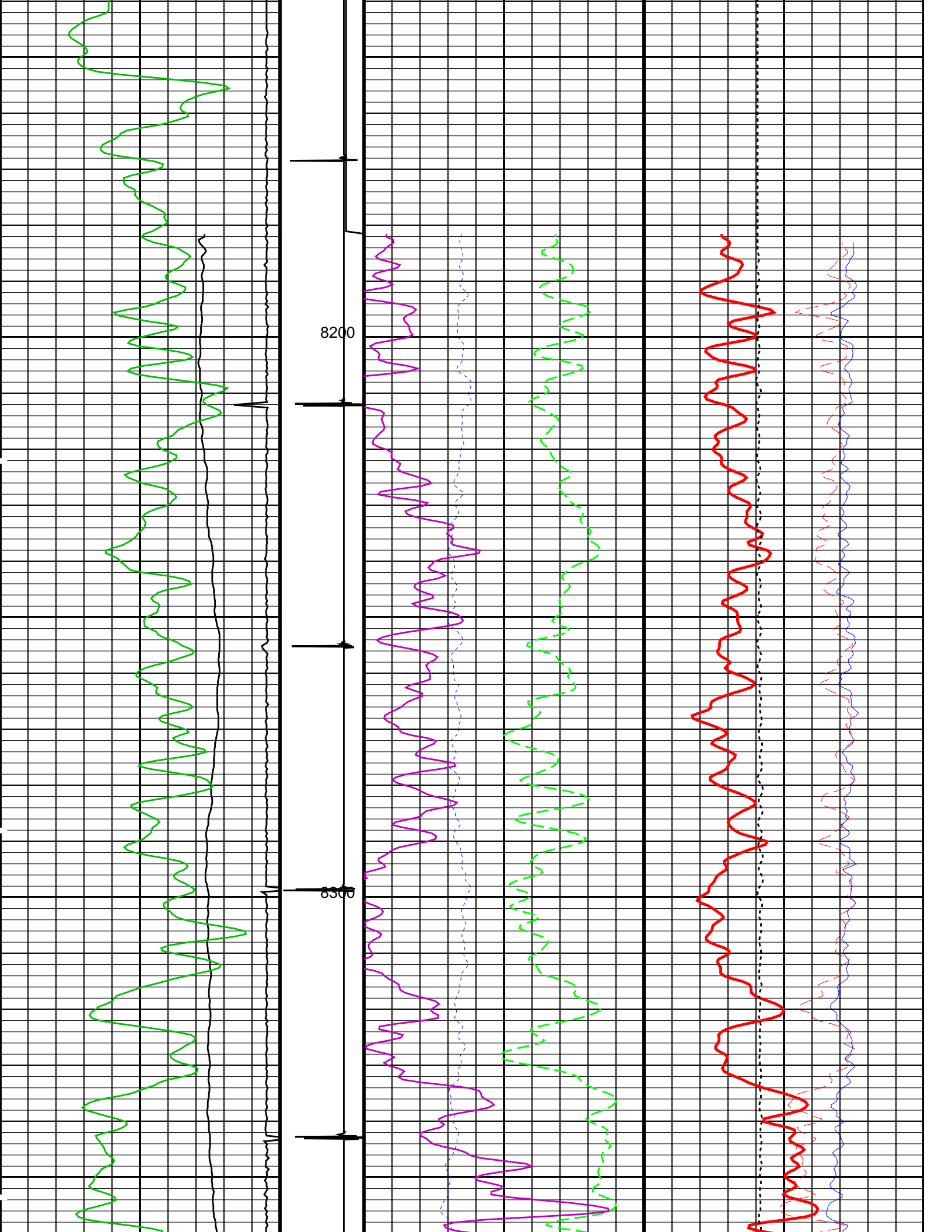
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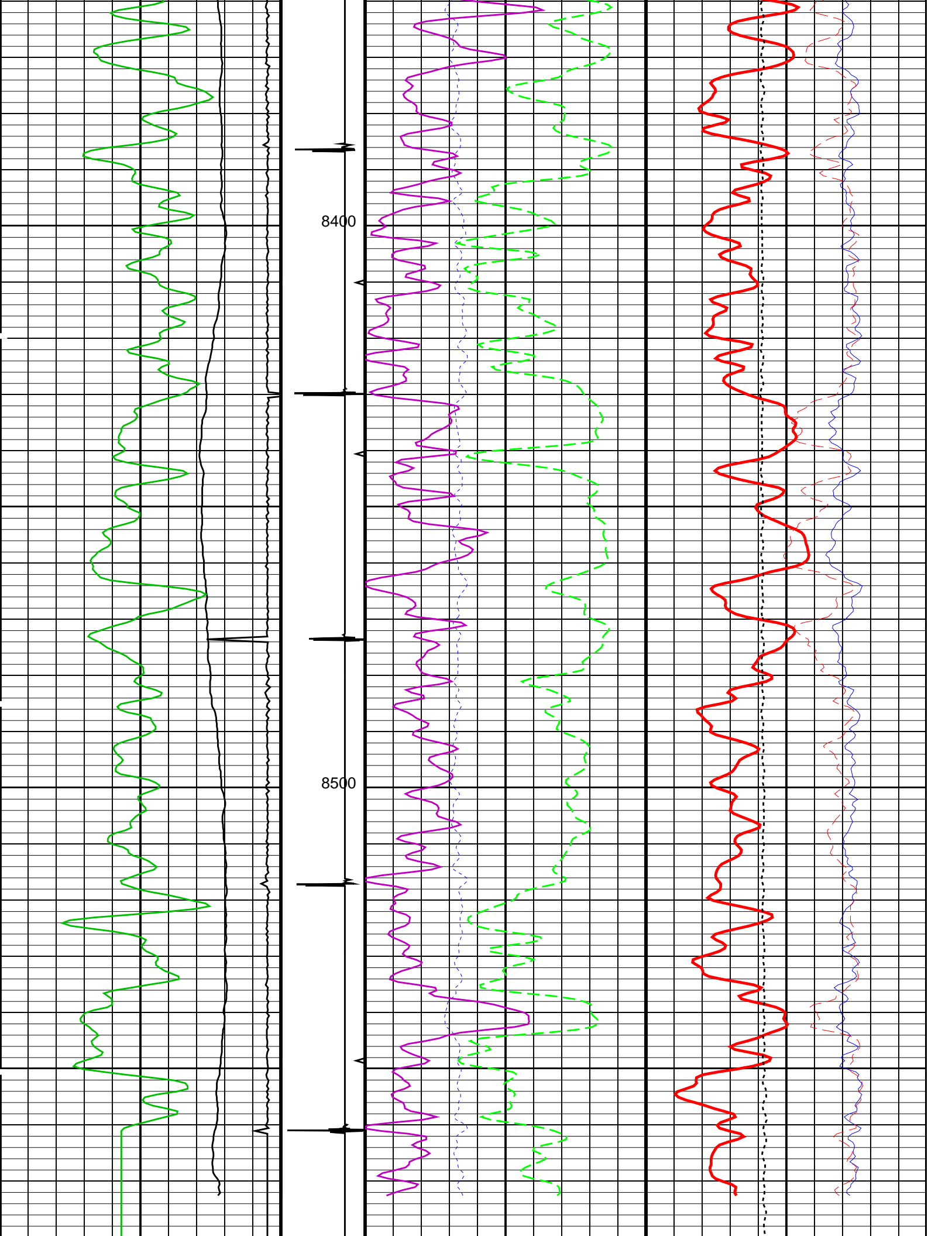
MAXIS Field Log

Company: CAERUS OPERATING LLC

Well: Puckett 24C-23 697

Output DLIS Files					
DEFAULT	SCMT_RST_PSP_006LUP	FN:5	PRODUCER	07-Feb-2018 15:53	
OP System Version: 19C2-270					
SCMT-CB	SRPC-5318-Thrubit-SP3.4	RST-C	19C2-270		
PSPT	SRPC-5318-Thrubit-SP3.4				
PIP SUMMARY					
Time Mark Every 60 S					
			Tension (TENS) 0 (LBF) 3000		
			RST Weighted Inelastic Ratio (WINR_RST) 0 (----) 0.4		
Gamma Ray (GR) (GAPI) 0 150		RST Porosity (TPHI) (V/V) 0.6 0		RST Far Effective Capture CR (RSCF_ RST) (----) 45 0	
(CCLC) (V) -19 1		Bad Level Diagnostic (BADL_DIAG) 9 (----) 0		RST Sigma (SIGM) (CU) 60 0	
RST Borehole Salinity (BSAL) (PPK) 450 -50		Discriminat ed CCL (CCLD) (V) 3 -1		RST Near Effective Capture CR (RSCN_ RST) (----) 45 0	
		RST Inelastic Ratio (IRAT_FIL) (----) 0.75 0			





DFPC_IDTL	RST Depth Filter Processing Constant (TDI-like)	TWO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
NORM_IRAT_RST	RST Normalized Inelastic Ratio	0.48	
NORM_SIGM_RST	RST Normalized Sigma	30	CU
PTIER	RST Tiered Presentation Selection	0_Customer	
PVL_PSNT_PRST	PVL Peak Signal/Noise Threshold	3	
RGAI	Near/Far Gain Calibration Ratio	1	
SHT	Surface Hole Temperature	68	DEGF
TIER_IC	RST IC Acquisition Mode	0_CO_Yield_and_Spectrolith	
TIER_SIGM	RST Sigma Acquisition Mode	0_RST_Sigma	
WOFSL_PRST	RST WFL-Off Subcycle Length	0	
WONSL_PRST	RST WFL-On Subcycle Length	0	
WSCOM_PRST	RST Station Log Comment		
PSPT: Production Services Logging Platform			
BHS	Borehole Status	CASED	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
CSID	Casing Size I.D.	4	IN
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
PBPO	PBMS Tool position on CAN	2	
PCCG	PBMS CCL Gain	DB12	
PSTP	PSTC Tool Position on CAN Bus	1	
SHT	Surface Hole Temperature	68	DEGF
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	8.750	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	4.500	IN
CWEI	Casing Weight	11.60	LB/F
DFD	Drilling Fluid Density	8.60	LB/G
FLEV	Fluid Level	13.00	FT
MST	Mud Sample Temperature	-50000.00	DEGF
PBVSADP	Use alternate depth channel for playback	NO	
RMB	Resistivity of Mud - BHT	-50000.0000	OHMM
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RMS	Resistivity of Mud Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	-50000	FT
TDD	Total Depth - Driller	8948.00	FT
TDL	Total Depth - Logger	8924.00	FT
TWS	Temperature of Connate Water Sample	100.00	DEGF

Format: RST_SIG_ANSW Vertical Scale: 5" per 100' Graphics File Created: 07-Feb-2018 15:53

OP System Version: 19C2-270

SCMT-CB	SRPC-5318-Thrubit-SP3.4	RST-C	19C2-270
PSPT	SRPC-5318-Thrubit-SP3.4		

Output DLIS Files

DEFAULT	SCMT_RST_PSP_006LUP	FN:5	PRODUCER	07-Feb-2018 15:53
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Company: **CAERUS OPERATING LLC**

Schlumberger

Well: **Puckett 24C-23 697**

Field: **Grand Valley**

County: **Garfield**

State: **Colorado**

CEMENT BOND LOG
RST SIGMA LOG
GAMMA RAY COLLAR LOG

