

Schlumberger

Company: **Vecta Oil & Gas Ltd**

Well: **Cottonwood Grazing 3-22**

Field: **Wildcat**

County: **Lincoln**

State: **Colorado**

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[illegible]

Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth		@	
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density	Viscosity		
Fluid Loss	PH		
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			

OTHER SERVICES1	OTHER SERVICES2
OS1:	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
This is the first run in the hole.	
Toolstring run as per tool sketch.	
Matrix: Limestone (2.71 g/cc)	

Induction
Temperatu
Power Sup

1.5 IN
Standoff

7.9

SP SENSOR
HTEN HMAS
Accelerom HV
Mud Resis
Tension

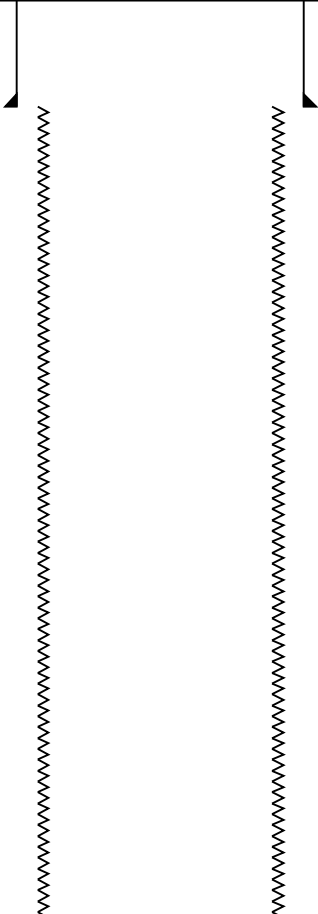
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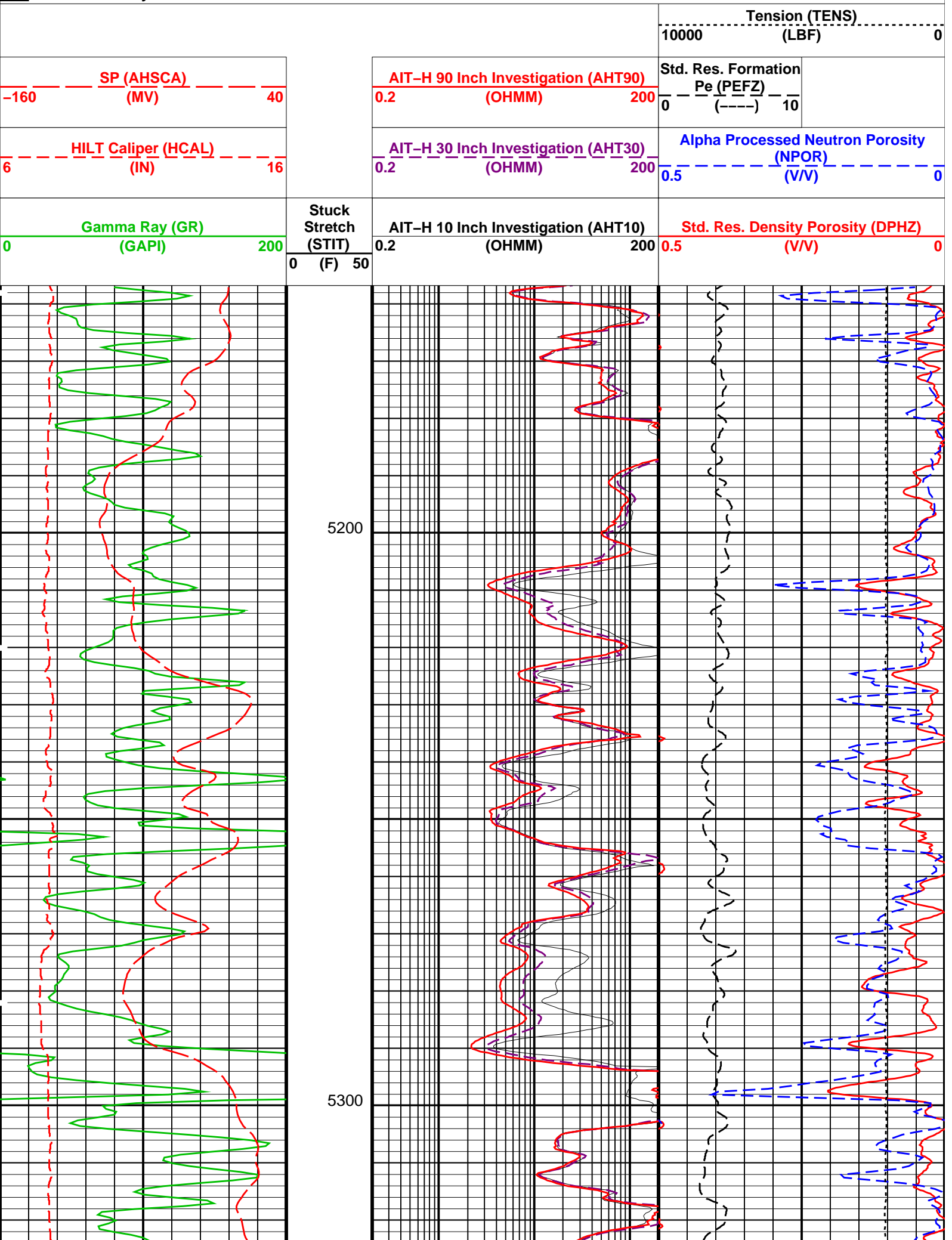
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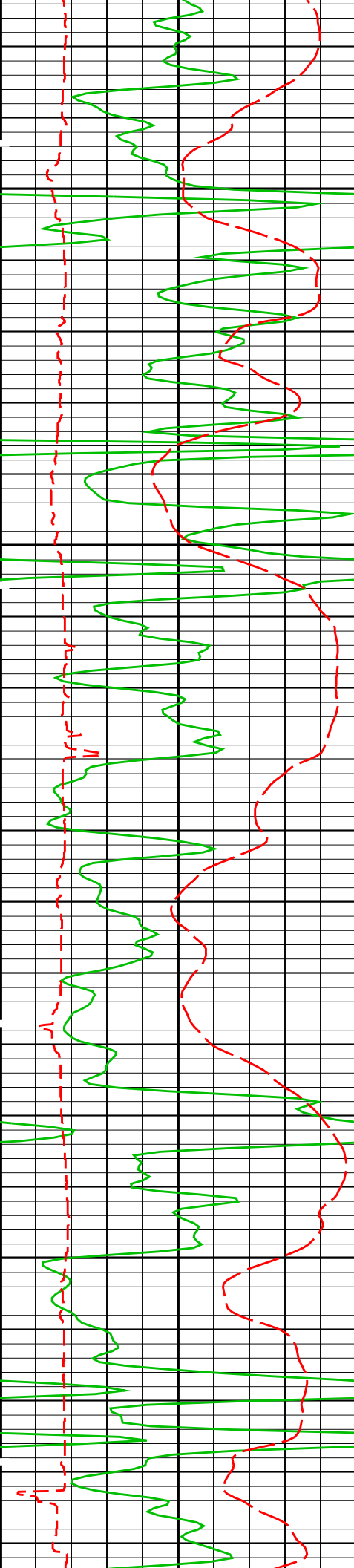
TOOL ZERO

1.5 IN
Standoff

MAXIMUM STRING DIAMETER 6.88 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

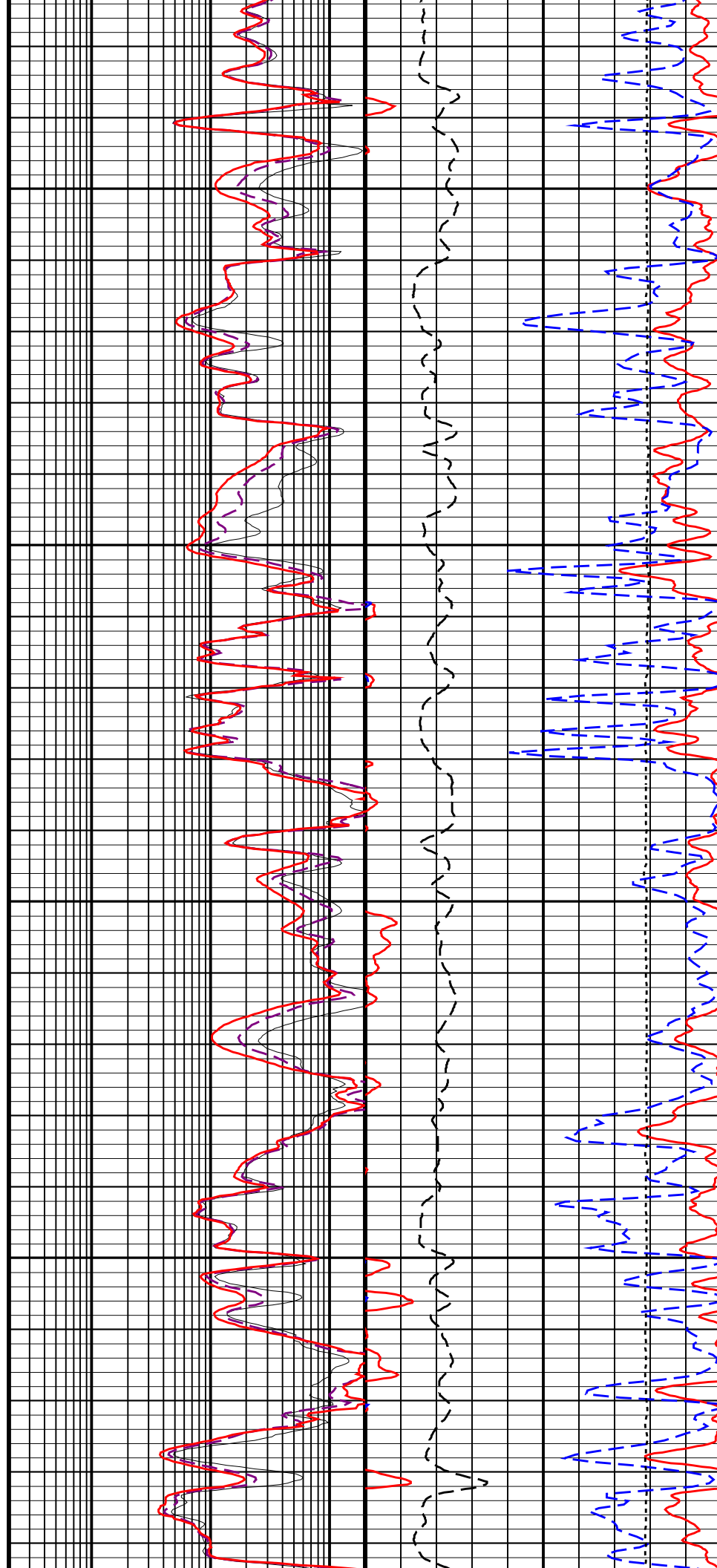
Production String	(in)		(ft)	Well Schematic	(ft)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
					0.0	9.625		Casing String
					420.0	9.625		Casing Shoe
					420.0	7.875		Borehole Segment

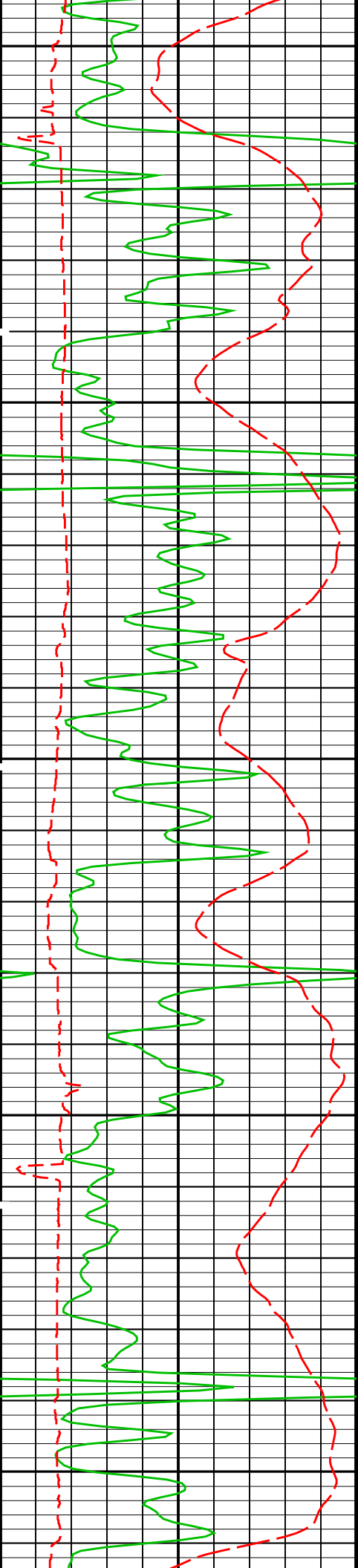




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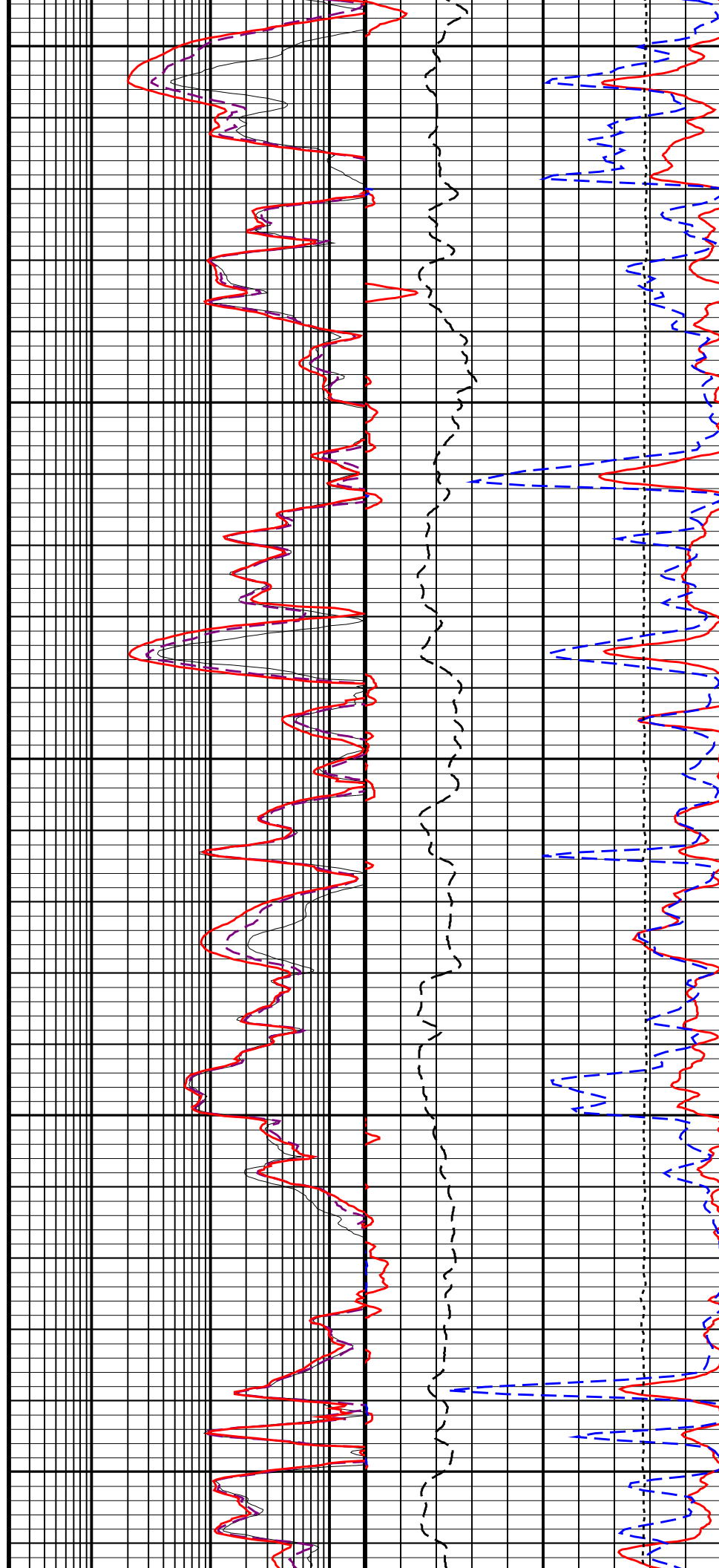
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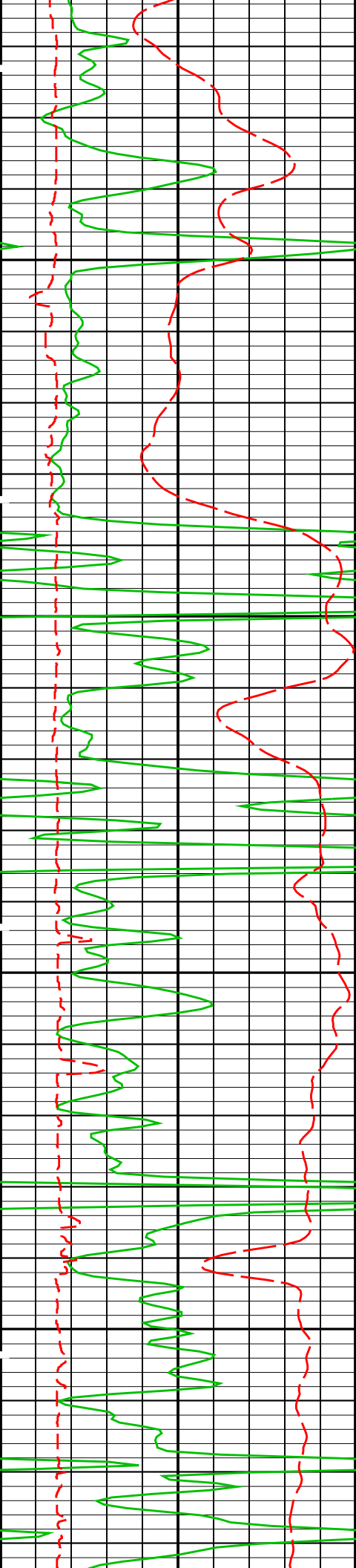




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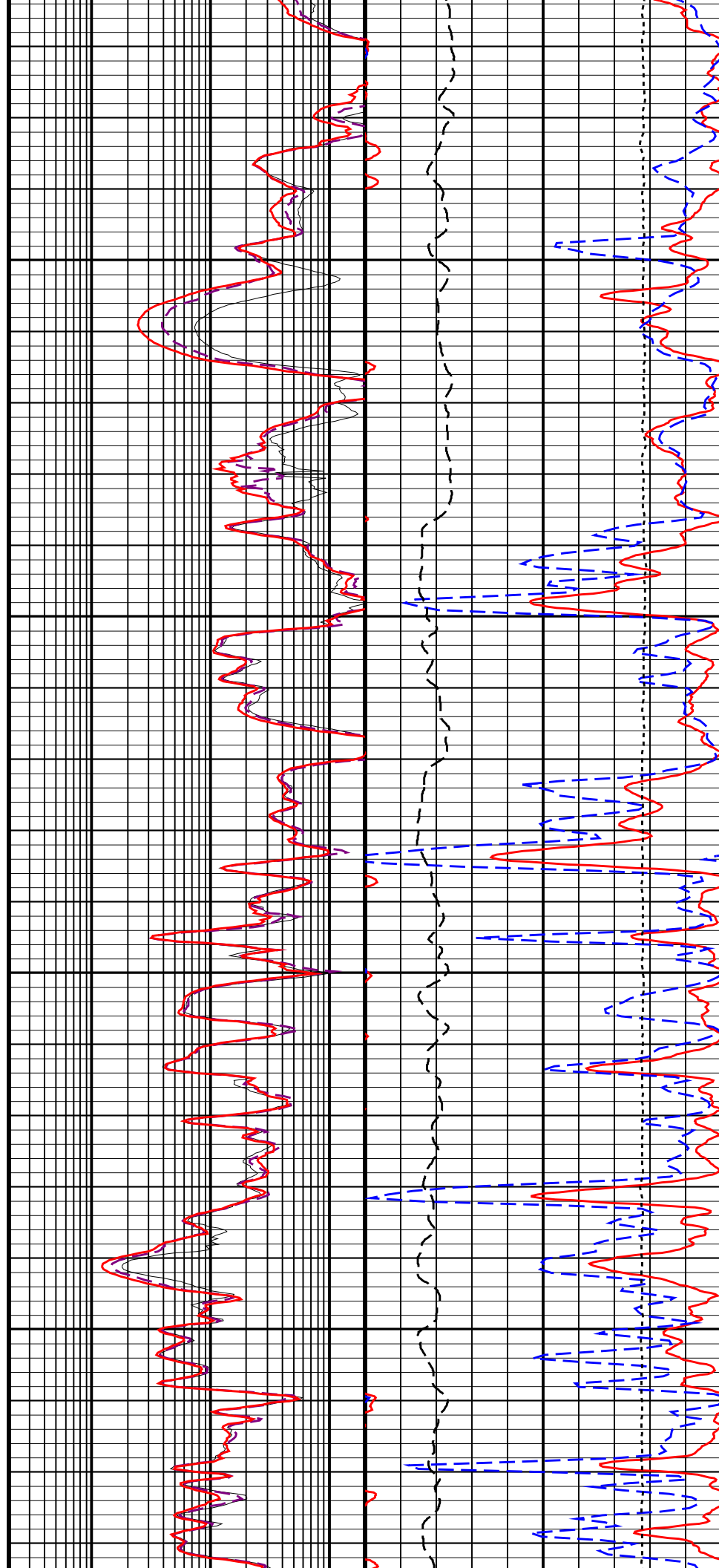
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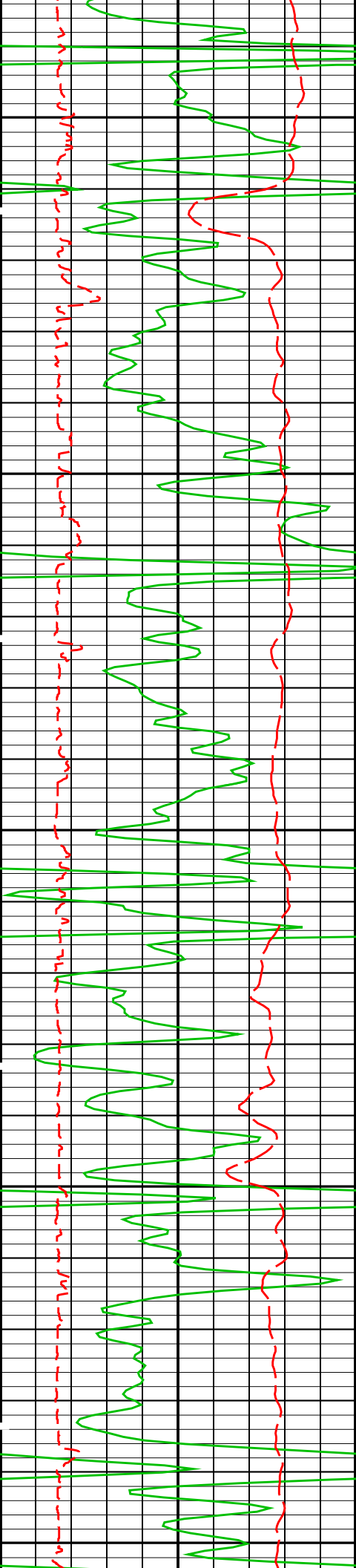




5800

5900

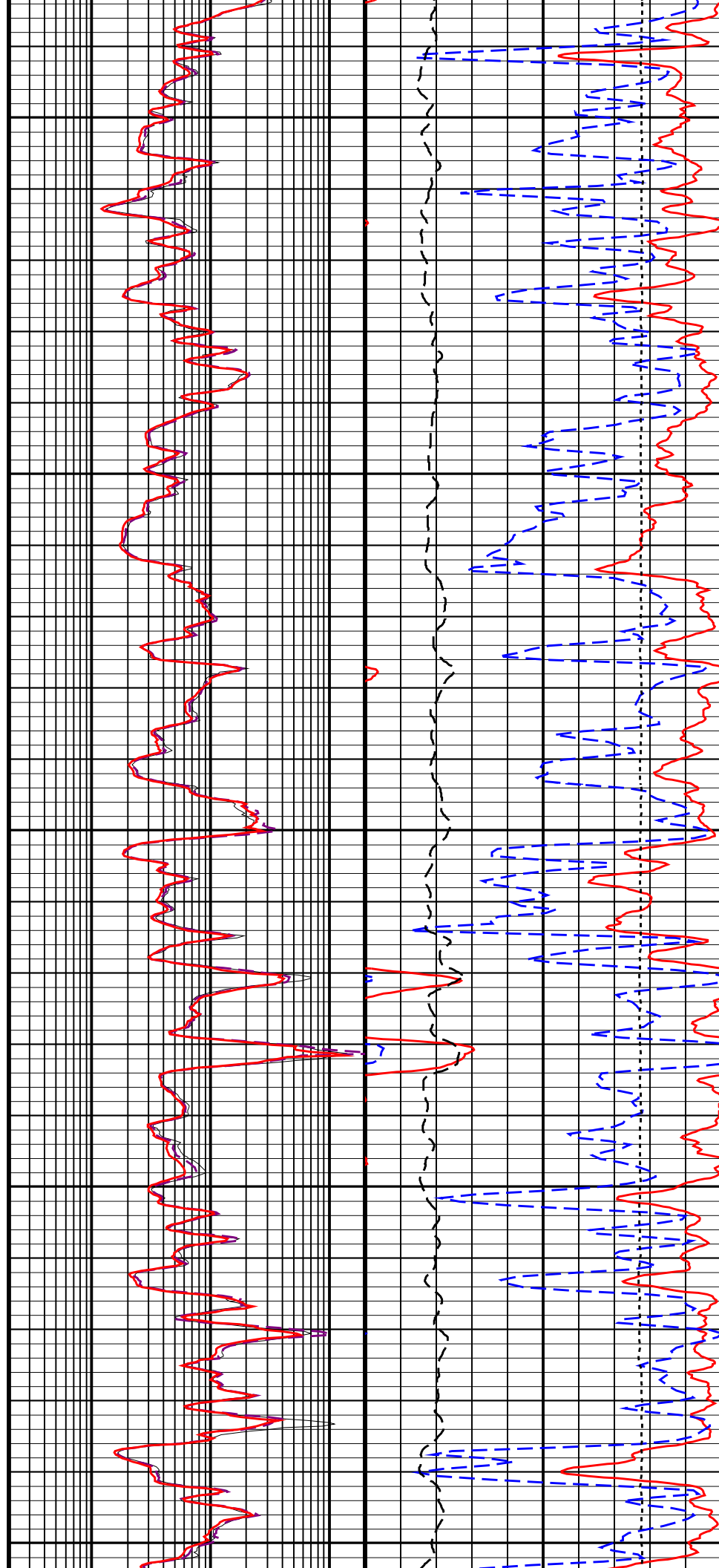


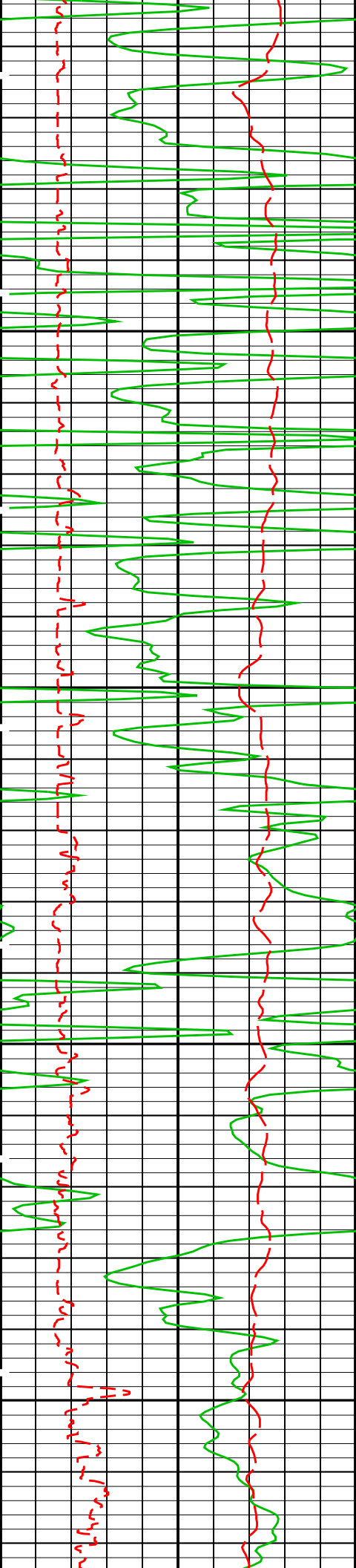


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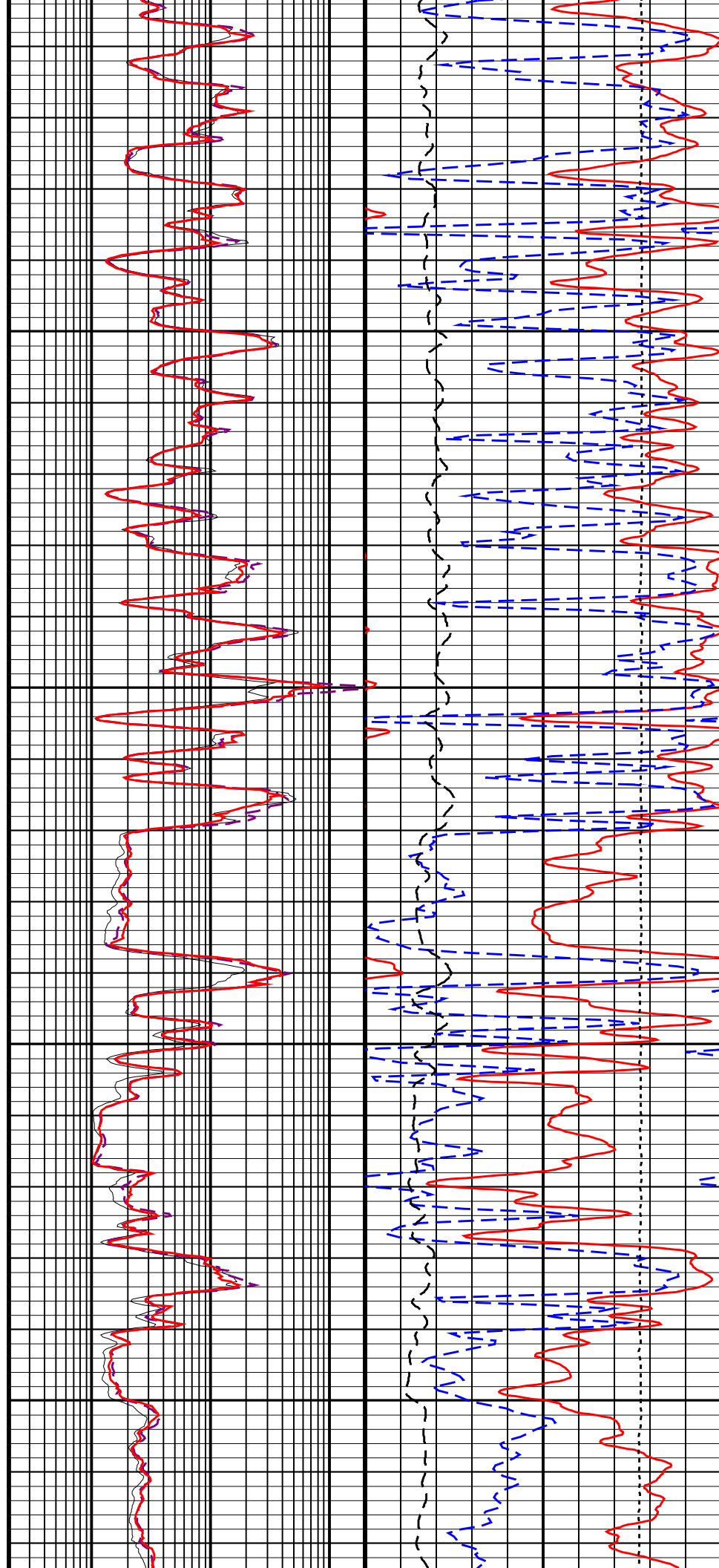
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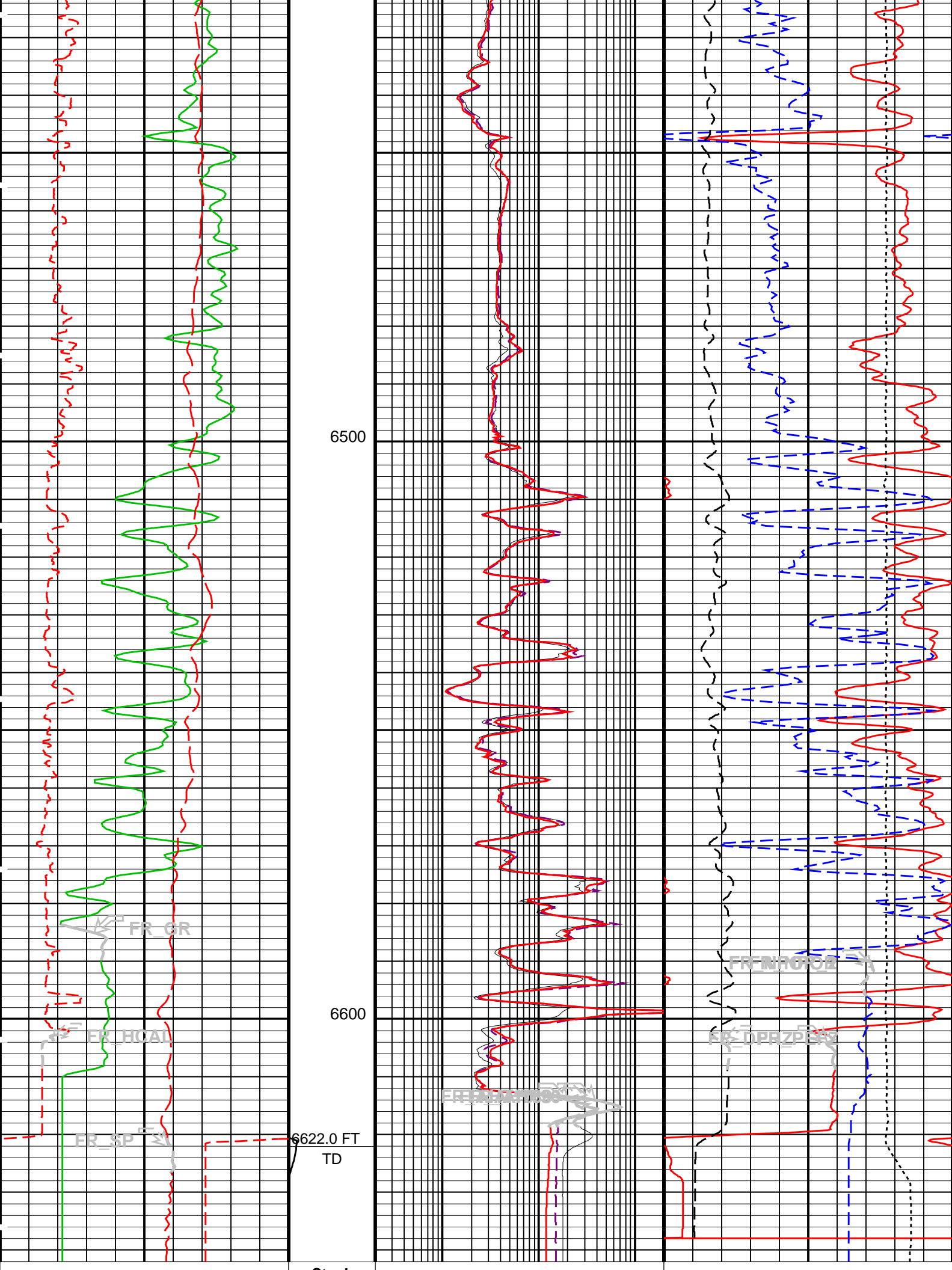




6300

6400





Gamma Ray (GR)			Stuck Stretch (STIT)	AIT-H 10 Inch Investigation (AHT10)			Std. Res. Density Porosity (DPHZ)		
0	(GAPI)	200		0.2	(OHMM)	200	0.5	(V/V)	0
			0 (F) 50						
HILT Caliper (HCAL)				AIT-H 30 Inch Investigation (AHT30)			Alpha Processed Neutron Porosity		
6	(IN)	16		0.2	(OHMM)	200	0.5	(NPOR)	0
							(V/V)		
SP (AHSCA)				AIT-H 90 Inch Investigation (AHT90)			Std. Res. Formation		
-160	(MV)	40		0.2	(OHMM)	200	Pe (PEFZ)		
							(----) 10		
							Tension (TENS)		
							10000 (LBF)		
							0		

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
HILTB-CTS: High resolution Integrated Logging Tool-CTS			
AHBHM	Array Induction Borehole Correction Mode	2_ComputeStandoff	
AHBHV	Array Induction Borehole Correction Code Version Number	900	
AHBLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
AHBLV	Array Induction Basic Logs Code Version Number	223	
AHCDE	Array Induction Casing Detection Enable	Yes	
AHCEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
AHFRSV	Array Induction Response Set Version for Four ft Resolution	41.70.24.20	
AHMRF	Array Induction Mud Resistivity Factor	1	
AHORSV	Array Induction Response Set Version for One ft Resolution	41.70.24.20	
AHRFV	Array Induction Radial Profiling Code Version Number	701	
AHRPV	Array Induction Radial Parametrization Code Version Number	232	
AHSTA	Array Induction Tool Standoff	0.125	IN
AHTRSV	Array Induction Response Set Version for Two ft Resolution	41.70.24.20	
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	159.6	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
FD	Fluid Density	1	G/C3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCLF	Germany Coal-like Formation Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.65	G/C3
MWCO	Mud Weight Correction Option	NO	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	HiRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	68	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	6623.00	FT
TDL	Total Depth - Logger	6622.00	FT
PERT: Preliminary Evaluation - Real Time			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	159.6	DEGF
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	

GCSE	Generalized Caliper Selection	HCAL	0	DEG
GDEV	Average Angular Deviation of Borehole from Normal			DF/F
GGRD	Geothermal Gradient		0.01	
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST		
GTSE	Generalized Temperature Selection	HSTS_HTEM		
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE		
SHT	Surface Hole Temperature		68	DEGF
HOLEV: Integrated Hole/Cement Volume				
BHS	Borehole Status	OPEN		
BHT	Bottom Hole Temperature (used in calculations)		159.6	DEGF
GCSE	Generalized Caliper Selection	HCAL		
GDEV	Average Angular Deviation of Borehole from Normal		0	DEG
GGRD	Geothermal Gradient		0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST		
GTSE	Generalized Temperature Selection	HSTS_HTEM		
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE		
SHT	Surface Hole Temperature		68	DEGF
FEQL: Formation Evaluation Quick Look				
FEXP	Form Factor Exponent		2	
FNUM	Form Factor Numerator		1	
System and Miscellaneous				
BS	Bit Size		7.875	IN
BSAL	Borehole Salinity		-50000.00	PPM
CSIZ	Current Casing Size		9.625	IN
CWEI	Casing Weight		36.00	LB/F
DFD	Drilling Fluid Density		9.20	LB/G
DORL	Depth Offset for Repeat Analysis		0.0	FT
FLEV	Fluid Level		25.00	FT
MST	Mud Sample Temperature		131.36	DEGF
RMFS	Resistivity of Mud Filtrate Sample		1.3425	OHMM
TD	Total Depth		6622	FT


Format: COMBO

Vertical Scale: 5" per 100'

Graphics File Created: 03-Apr-2011 03:18

OP System Version: 18C0-147	
HILTB-CTS	18C0-147

Output DLIS Files	
DEFAULT	AIT_TLD_MCFL_CNL_007LUP FN:6 PRODUCER 03-Apr-2011 03:18



HiRes TRIPLE COMBO LOG 10" = 100'

MAXIS Field Log

Company: Vecta Oil & Gas Ltd

Well: Cottonwood Grazing 3-22

Output DLIS Files	
DEFAULT	AIT_TLD_MCFL_CNL_007LUP FN:6 PRODUCER 03-Apr-2011 03:18

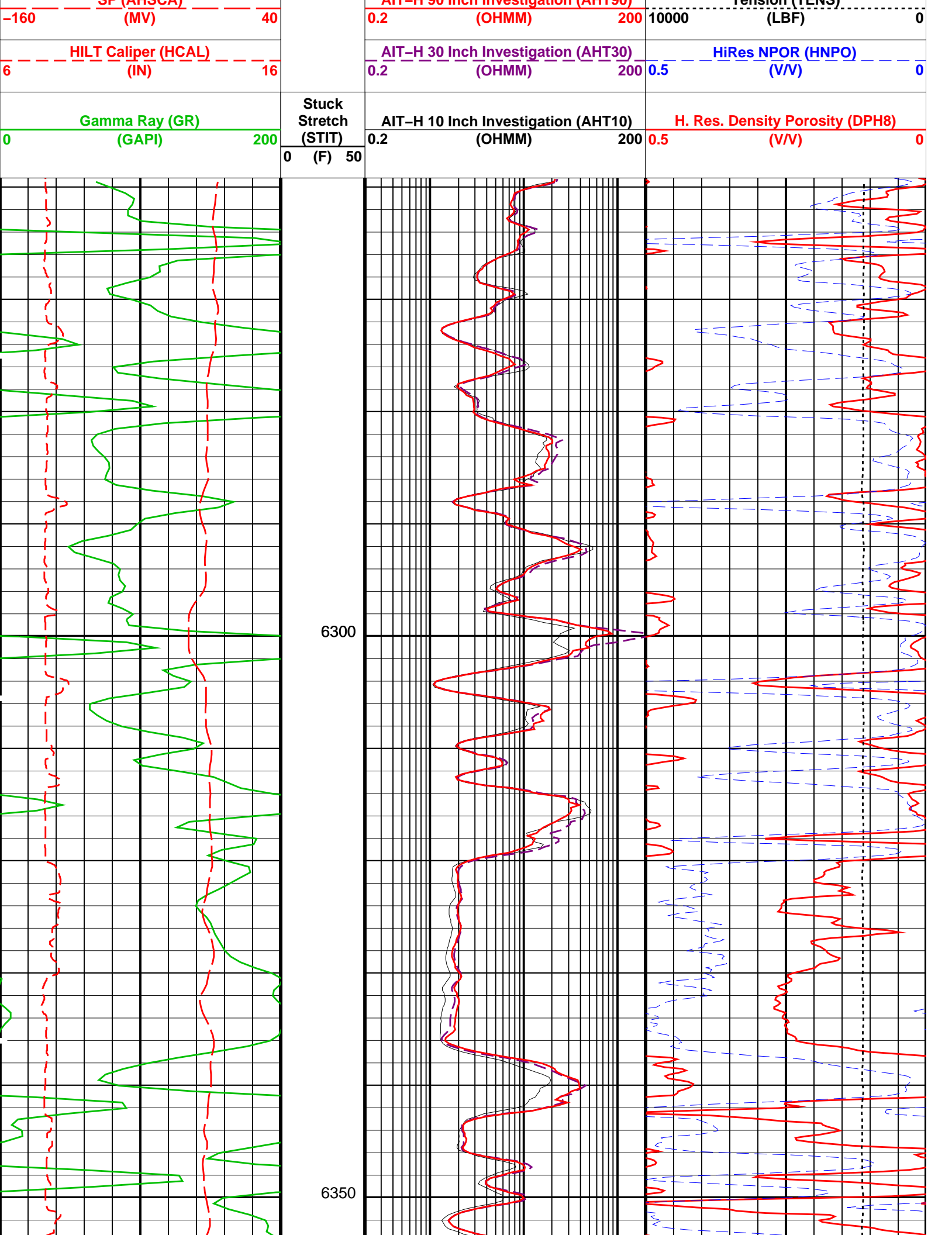
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HILTB-CTS	18C0-147

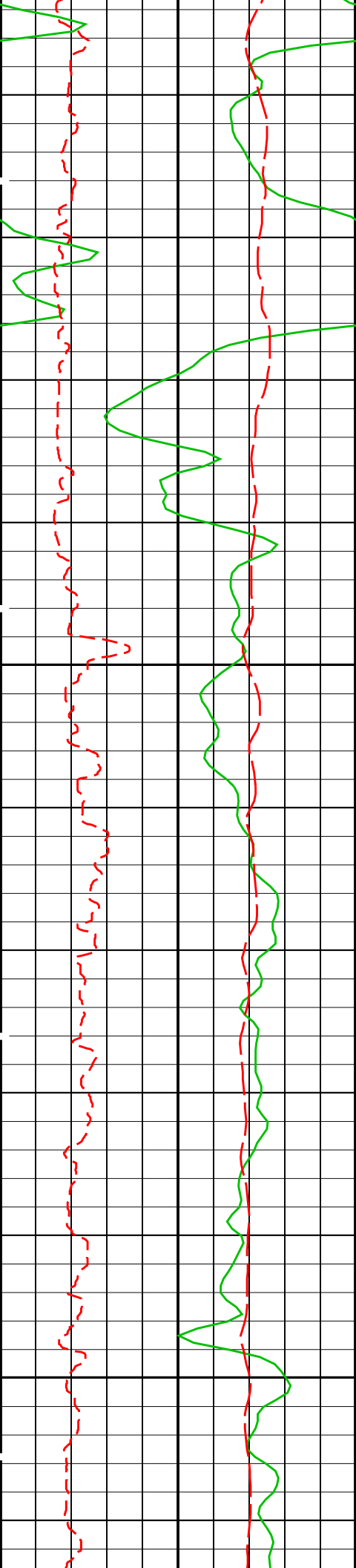
Changed Parameter Summary			
DLIS Name	New Value	Previous Value	Depth & Time
MATR	LIMESTONE	SANDSTONE	6642.0 03:22:27
MDEN	2.71 G/C3	2.65 G/C3	6642.0 03:22:27

PIP SUMMARY

Time Mark Every 60 S

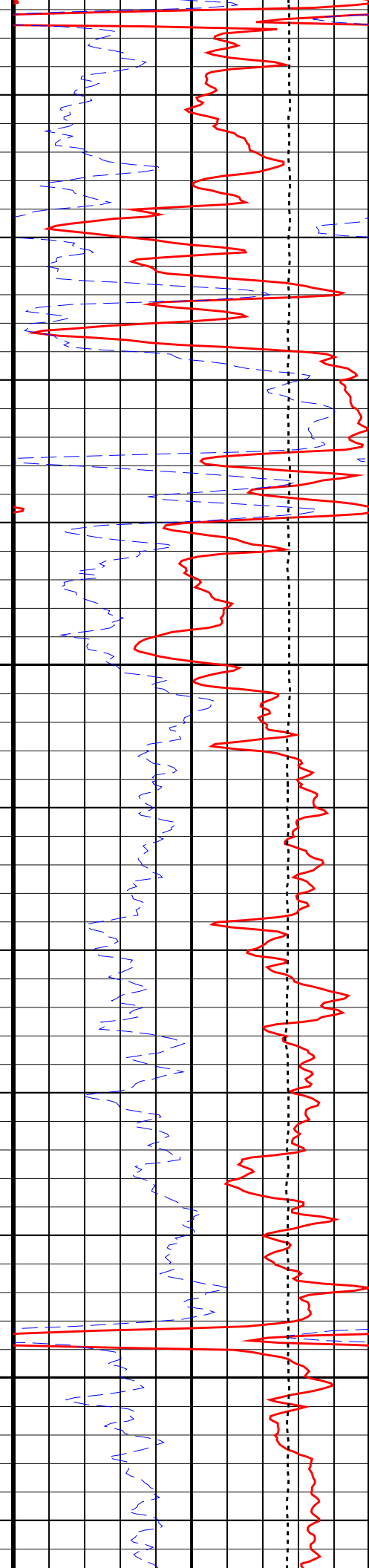
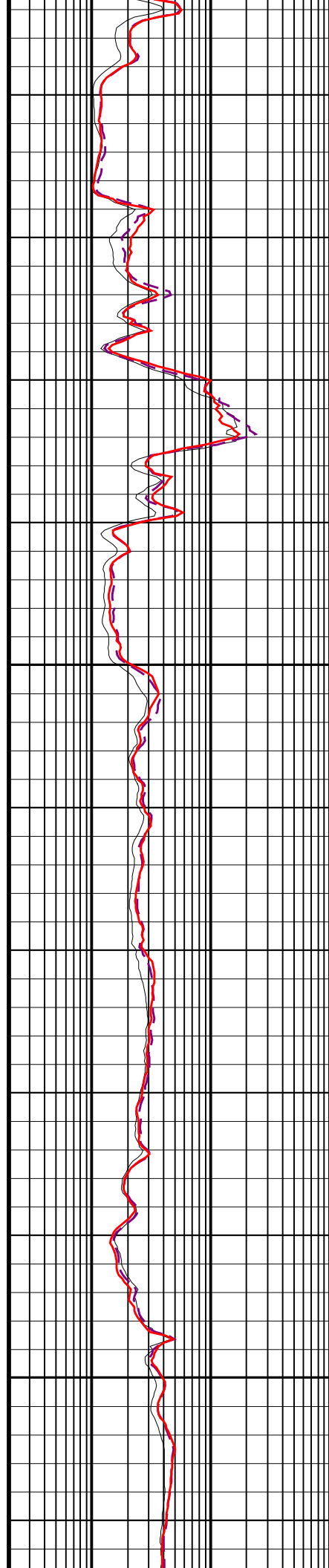
SP (AHSCA)	AIT_H 90 Inch Investigation (AHT90)	Tension (TENS)
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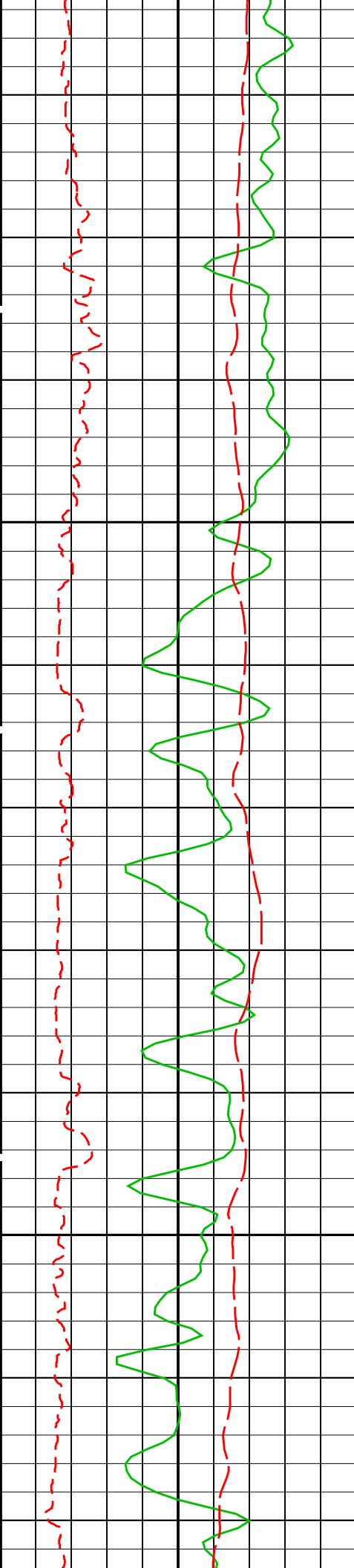




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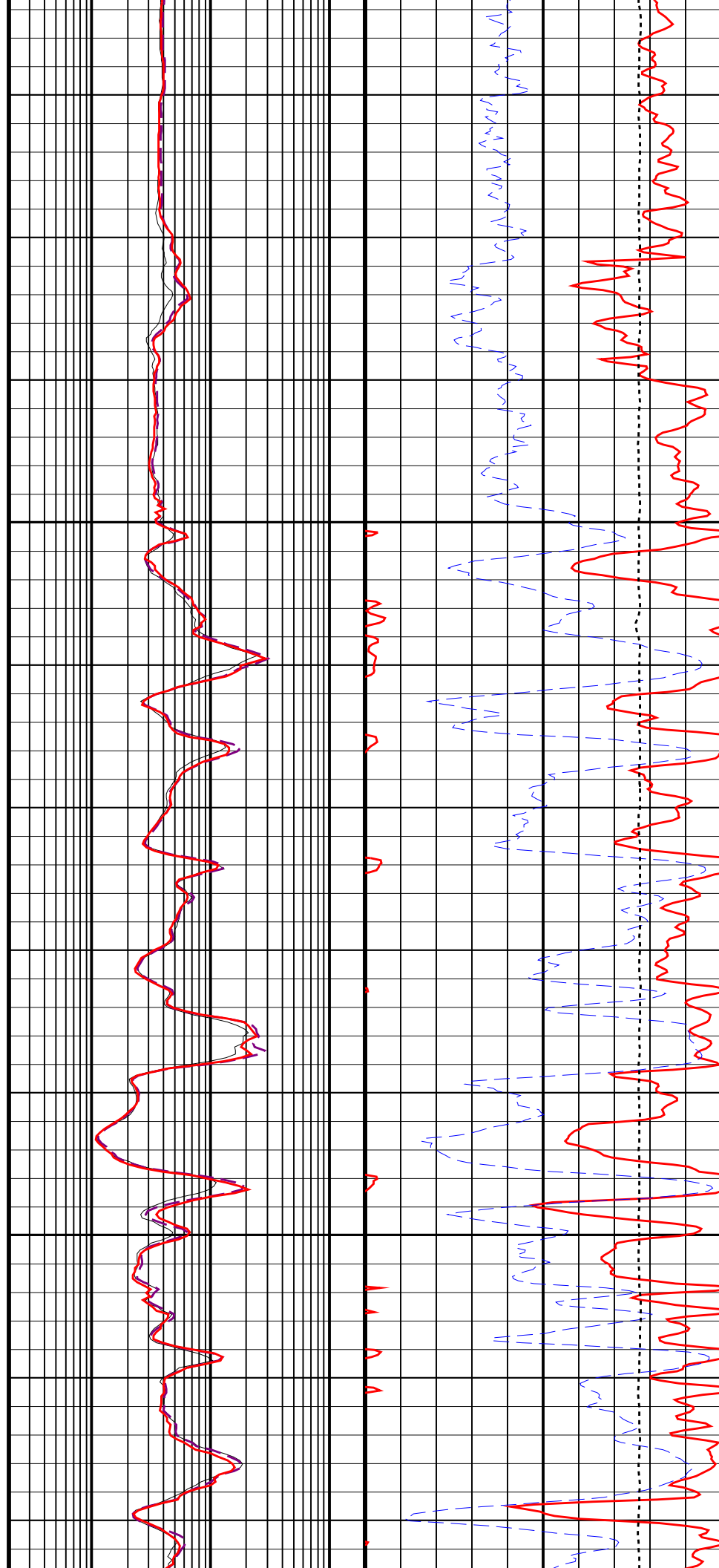
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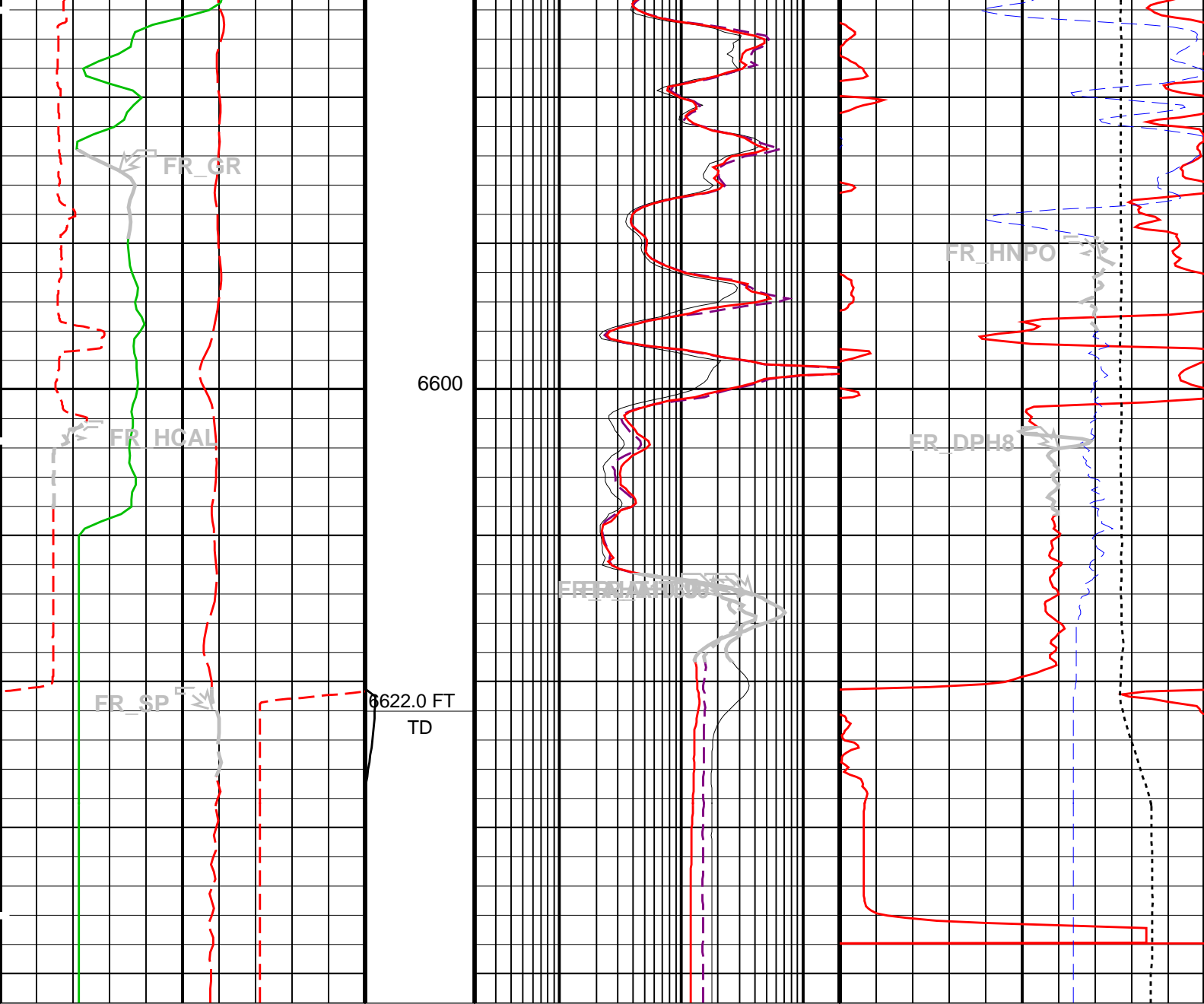




6500

6550





Gamma Ray (GR)			Stuck Stretch (STIT)	AIT-H 10 Inch Investigation (AHT10)			H. Res. Density Porosity (DPH8)				
(GAPI)				(OHMM)			(V/V)				
0		200		0.2		200	0.5		0		
			0	(F)	50						
HILT Caliper (HCAL)				AIT-H 30 Inch Investigation (AHT30)			HiRes NPOR (HNPO)				
(IN)				(OHMM)			(V/V)				
6		16		0.2		200	0.5		0		
SP (AHSCA)				AIT-H 90 Inch Investigation (AHT90)			Tension (TENS)				
(MV)				(OHMM)			(LBF)				
-160		40		0.2		200	10000		0		

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Time Mark Every 60 S

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AHCEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered
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AHMRF	Array Induction Mud Resistivity Factor	1
AHORSV	Array Induction Response Set Version for One ft Resolution	41.70.24.20

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CCCO	Casing & Cement Thickness Correction Option	NO	
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FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCLF	Germany Coal-like Formation Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
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GTSE	Generalized Temperature Selection	HSTS_HTEM	
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MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.65	G/C3
MWCO	Mud Weight Correction Option	NO	
NAAC	HRDD APS Activation Correction	OFF	
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FNUM	Form Factor Numerator	1	
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BSAL	Borehole Salinity	-50000.00	PPM
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CWEI	Casing Weight	36.00	LB/F
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Schlumberger

Well: Cottonwood Grazing 3-22

Field: Wildcat

County: Lincoln

State: Colorado

Platform Express

Triple Combo