

Tucker
ENERGY SERVICES

PHASED INDUCTION

SHALLOW FOCUS SP LOG

Company COLT ENERGY INC.
Well BAKER #BF-4A
Field IOLA
County ALLEN
State KANSAS
Country USA
API No. 15-001-30895-00-00

File No : TUL-58158
Company : COLT ENERGY INC.
Well : BAKER #BF-4A
Field : IOLA
County : ALLEN
State : KANSAS
Country : USA
API No : 15-001-30895-00-00

Location :
1209' FSL & 1570' FWL
NW NW SE SW

LSD : Sect : 04 Twp : 24S Rge : 18E

Permanent Datum: GL Elevations: KB 0.00 Ft Services: CNT
Drilling Measured From: GL DF 0.00 Ft LDT
Log Measured From: GL GL 1015.00 Ft PIT
Above Permanent Datum: 0.00 Ft

Date	12-14-2013	
Run Number	1	
Depth--Driller	1175.0	Ft
Depth--Logger	1175.0	Ft
First Reading	1174.0	Ft
Last Reading	20.0	Ft
Casing--Driller	20.0	Ft
Casing--Logger	20.0	Ft
Bit Size	6.750	In
Casing Size	8.625	In
Hole Fluid Type	FRESH	
Density	0.0	
Fluid Loss	0.0	
PH/Viscosity	0.0	0.0
Sample Source	MEASURED	
RM@Measured Temp.	1.600	@ 54 F
RMF@Measured Temp	1.360	@ 54 F
RMG@Measured Temp.	1.840	@ 54 F
Source RMF/RMG	CALCULATED/CALCULATED	
RM@BHT	1.140	@ 78 F
Time Circulation Stopped	12-14-2013 10:30 am	
Max Recorded Temp.	78	F
Equipment/Base	TRK-127	TULSA
Recorded By	R. FRANKLIN	
Witnessed By	R. ASHLOCK	

The customer is hereby warned that by providing the log data herein, T. E. S. does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. T. E. S. does not guarantee or warrant either expressly or impliedly, the accuracy of any interpretation of log data, conversion of log data to physical rock parameters or recommendations which may be given by T. E. S. personnel. Any interpretation, conversion or recommendation is not part of the consideration for the agreement between the parties and is not part of any part of the charge by T. E. S. for its services. Any user of the log data is warned that said user is not entitled to rely on interpretations, conversions or recommendations as aforesaid.

Bitsize Intervals		Casing Strings			
Size (In)	Bottom (Ft)	Size (In)	Weight (Lbs)	Bottom (Ft)	Top (Ft)
6.750	1175.00	8.625	36.00	20.00	0.00

Run Number	1	
Date	12-14-2013	
Date/Time On Bottom	12-14-2013 12:15 pm	
Depth to Fluid	150.0	Ft
Salinity	0.000	
RMF@BHT	0.970	@ 78 F
RMC@BHT	1.320	@ 78 F

Run Number 1

Comments

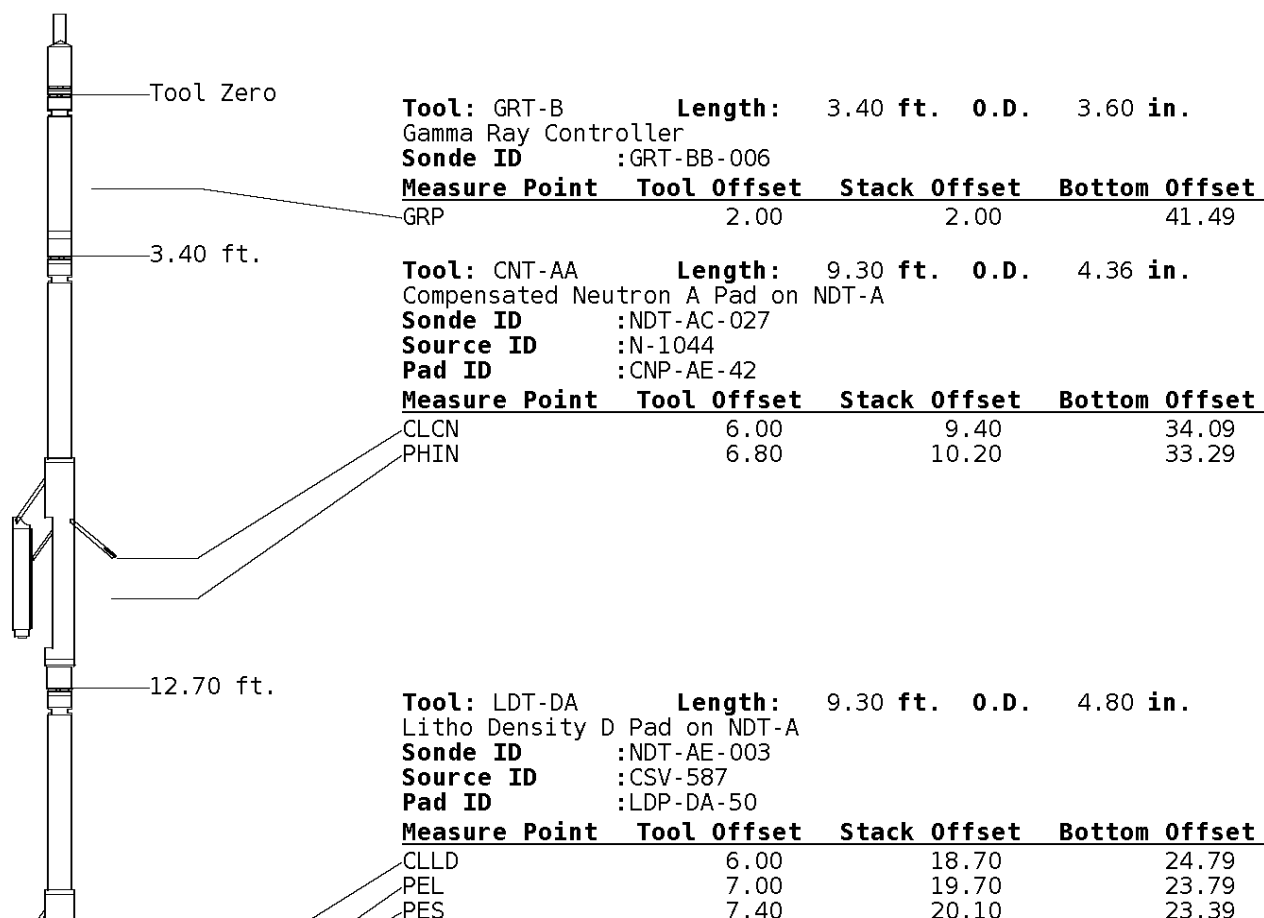
ALL PRESENTATIONS AS PER CUSTOMER REQUEST
 GRT, CNT, LDT, AND PIT RUN IN COMBINATION.
 CALIPERS ORIENTED ON X-Y AXIS.
 2.71 G/CC USED TO CALCULATED POROSITY.
 ANNULAR HOLE VOLUME CALCULATED USING 4.5" PRODUCTION CASING.
 PHIN IS CALIPER CORRECTED
 HIGH RESOLUTION LOGS PRESENTED FROM TD TO 500
 SP, SFL, AND PHIN DISABLED AT 150' DUE TO LACK OF FLUID.

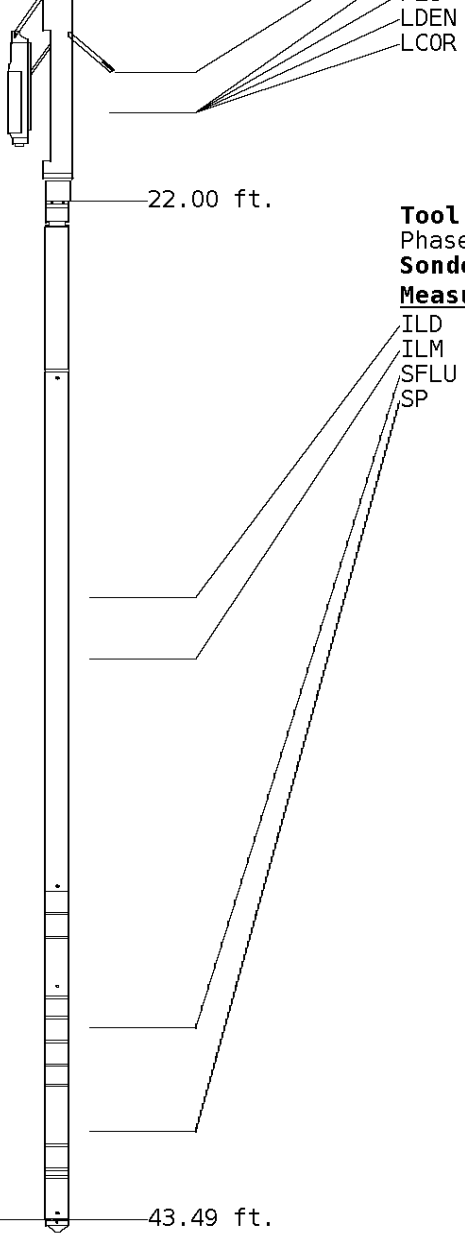
GRT: GRP, GRX
 CNT: PHIN, CLCNIN, PHXN
 LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN, PRXL, PECLX, LDENNX, LCORX
 PIT: ILD, ILM, SPU, SFLAEC, CIRD

OPERATORS:
 J. THOMAS
 C. GONZALES

Tool String Schematic

Total Tool Length - 43.49 ft.
Maximum Outside diameter - 4.80 in.
Net Weight in Air - 743.00 lbs.



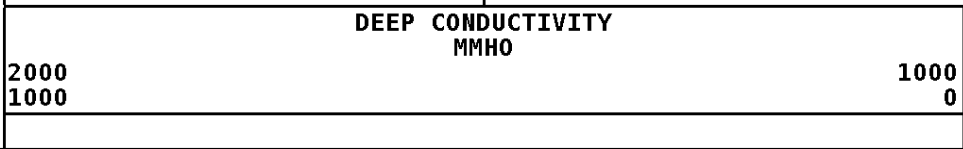
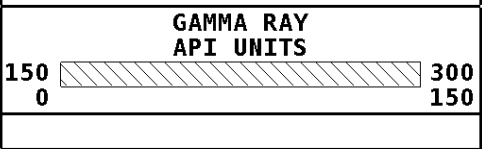
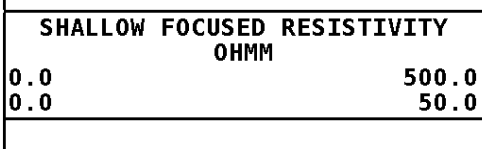
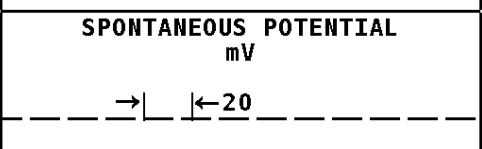
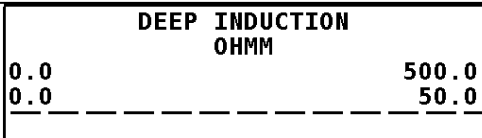
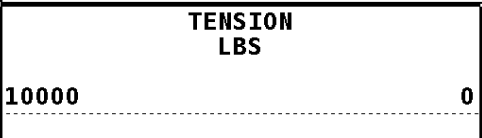


7.20 19.90 23.59
 7.20 19.90 23.59

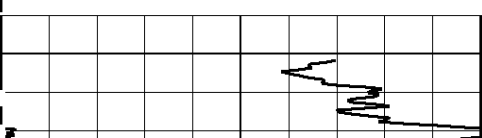
Tool: PIT-CA **Length:** 21.49 ft. **O.D.** 3.62 in.
 Phased Dual Induction w/ RM & D
Sonde ID :PIT-BA-20

Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	30.92	12.56
ILM	10.10	32.10	11.39
SFLU	17.49	39.49	4.00
SP	20.60	42.60	0.88

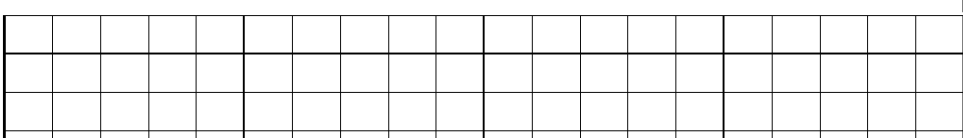
Well File: COLT BAKER BF-4A DEC 14 STK **Scale:** 1:600 **Format:** DIL-600
Segment: V1.D1.S3 MAIN **Acquired:** 2013-12/14 12:18 3.3.0-12554
Reference: 0 **Processed:** 2013-12/14 12:56 3.3.0-12554

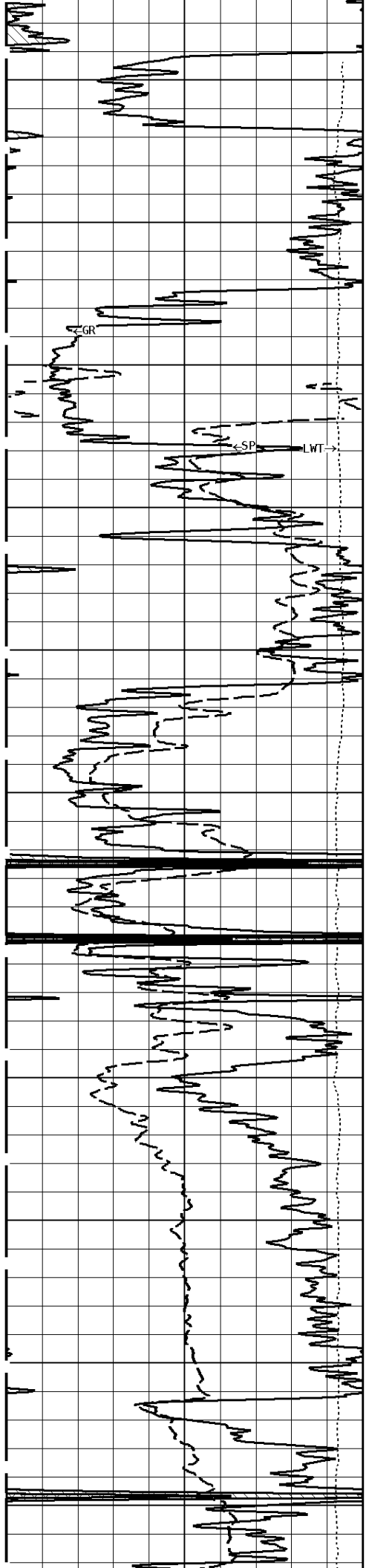


1:600 MAIN SECTION



000





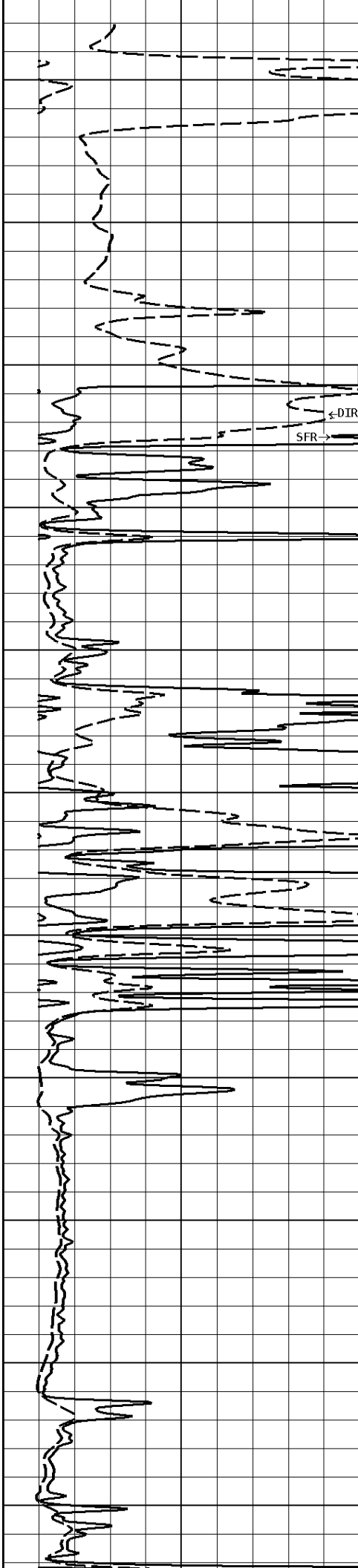
100

200

300

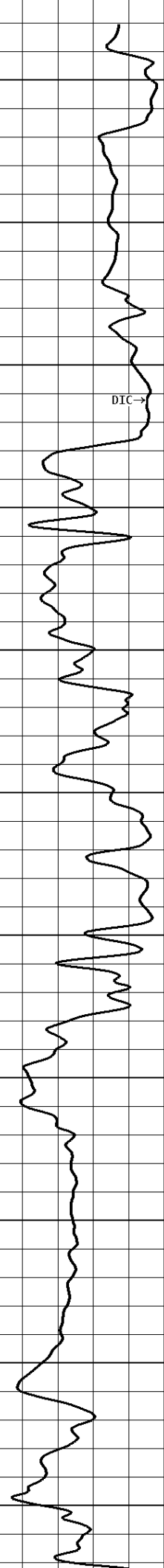
400

500

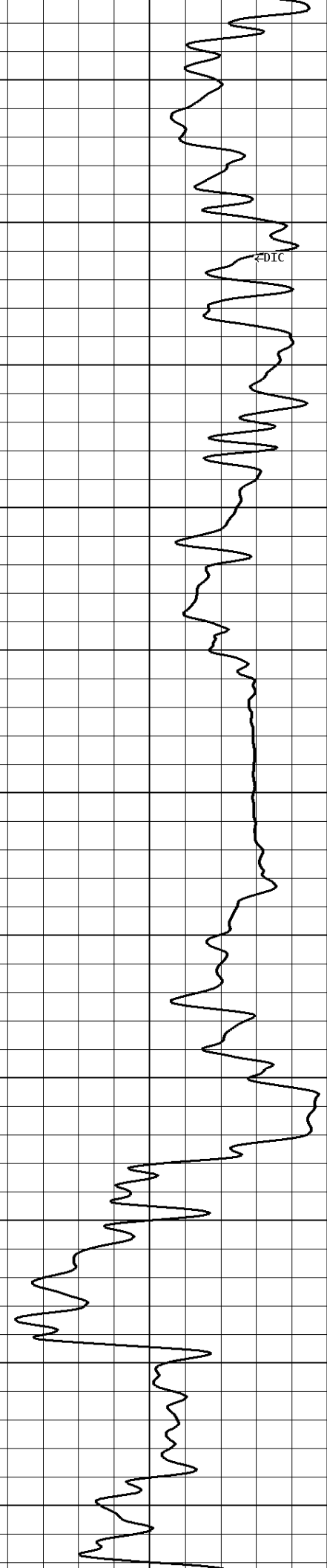
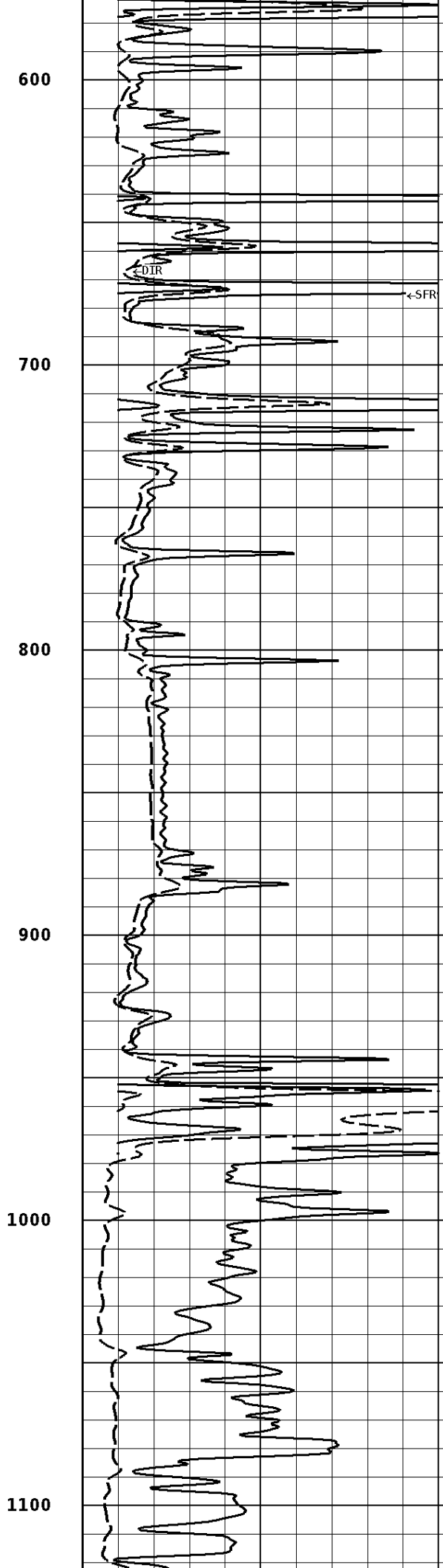
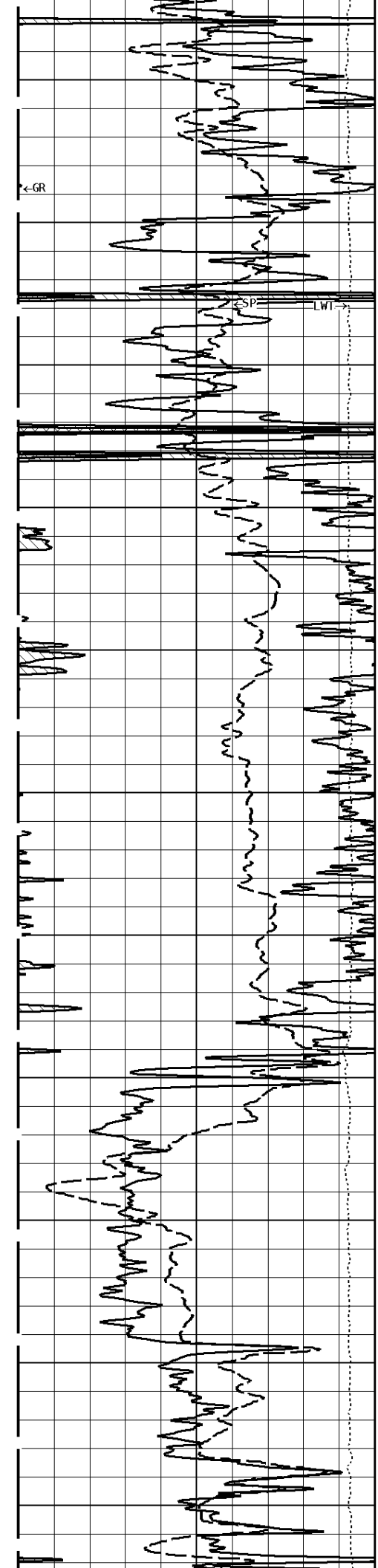


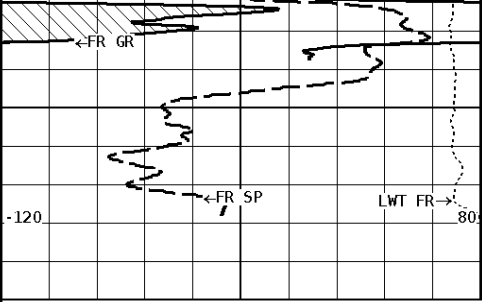
←DIR

SFR→

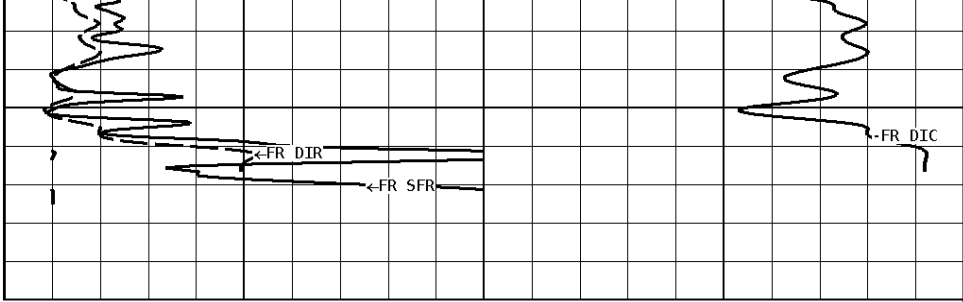


DIC→

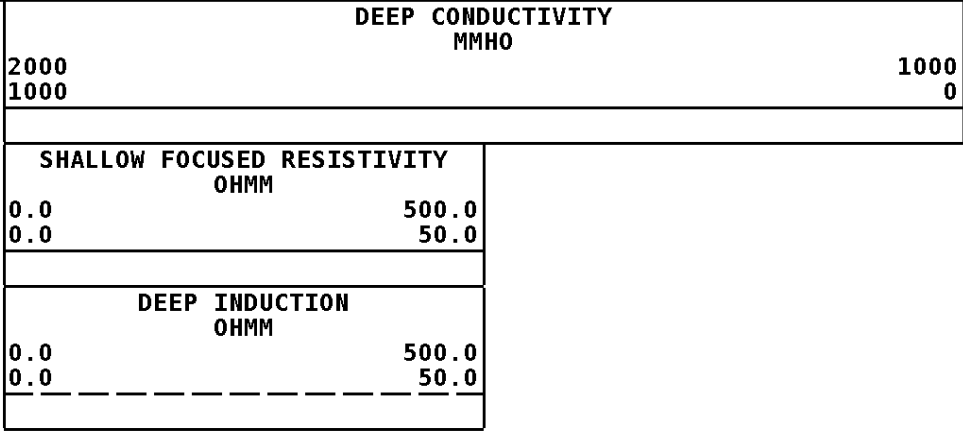
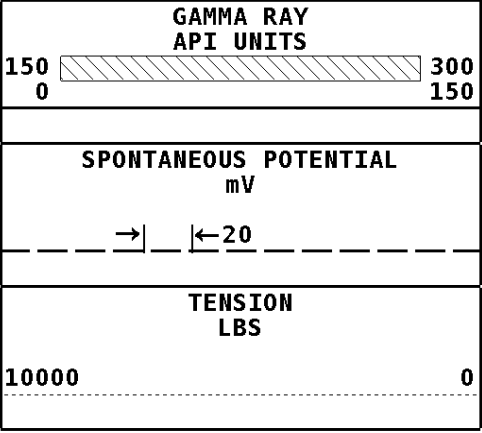




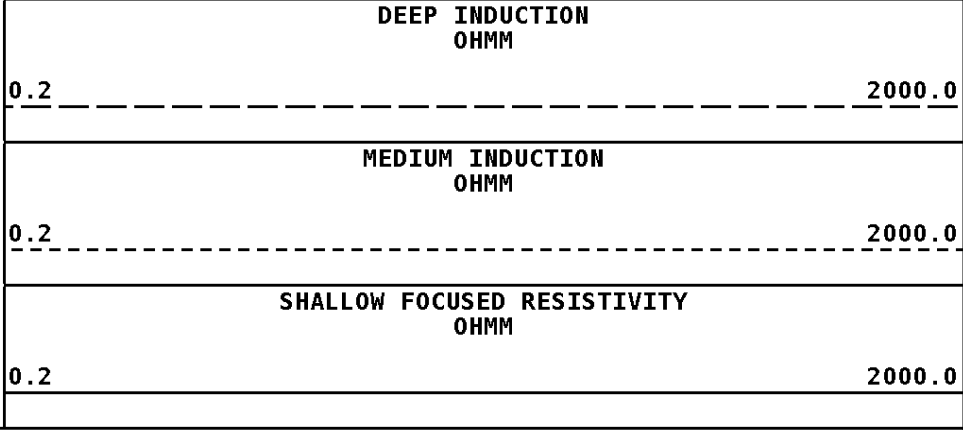
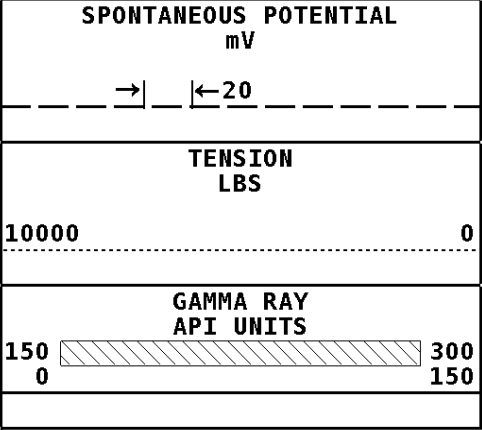
1175



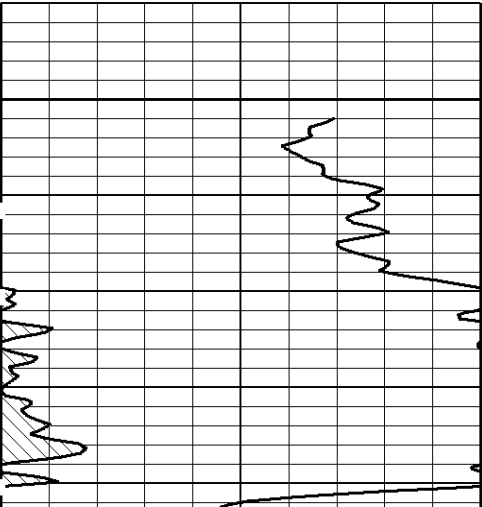
1:600 MAIN SECTION



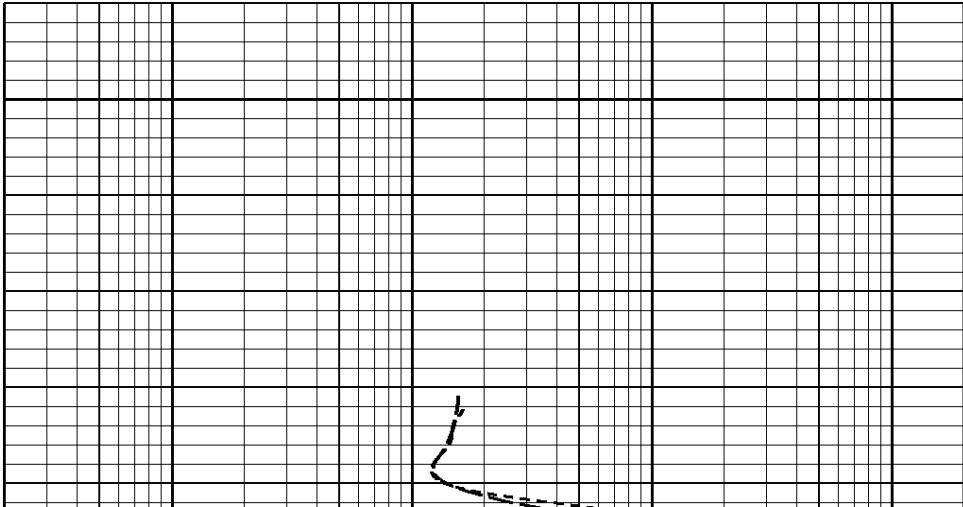
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 Reference: 0 Processed: 2013-12/14 12:56 3.3.0-12554

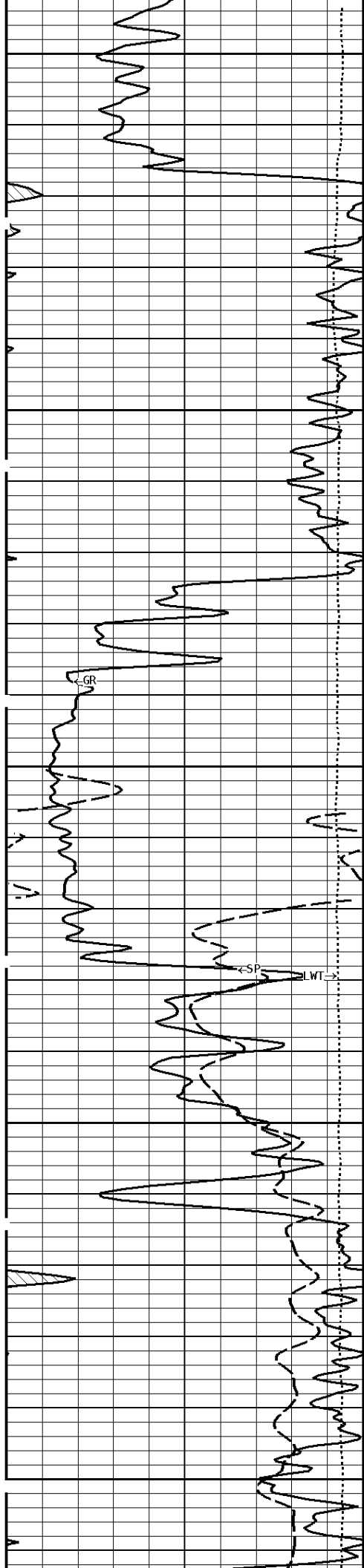


1:240 MAIN SECTION



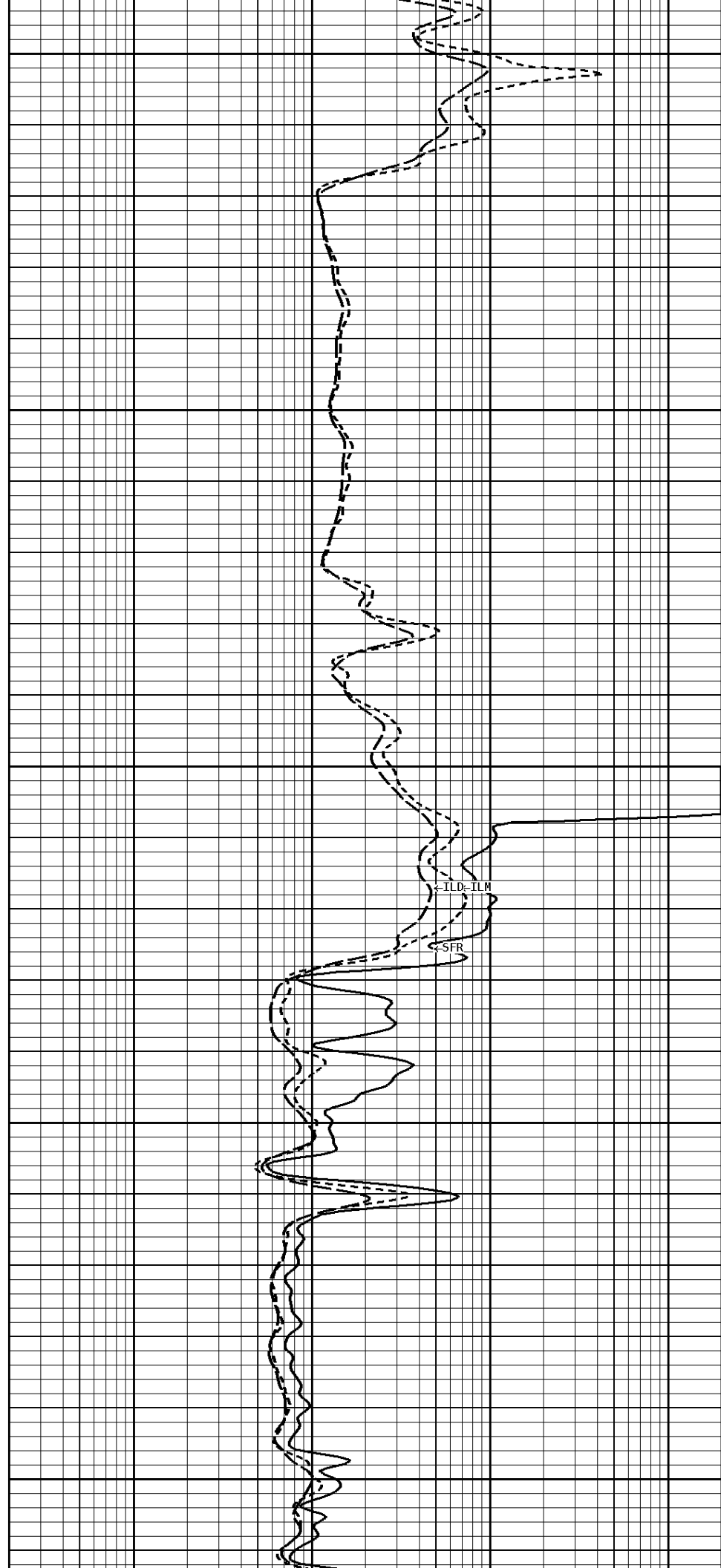
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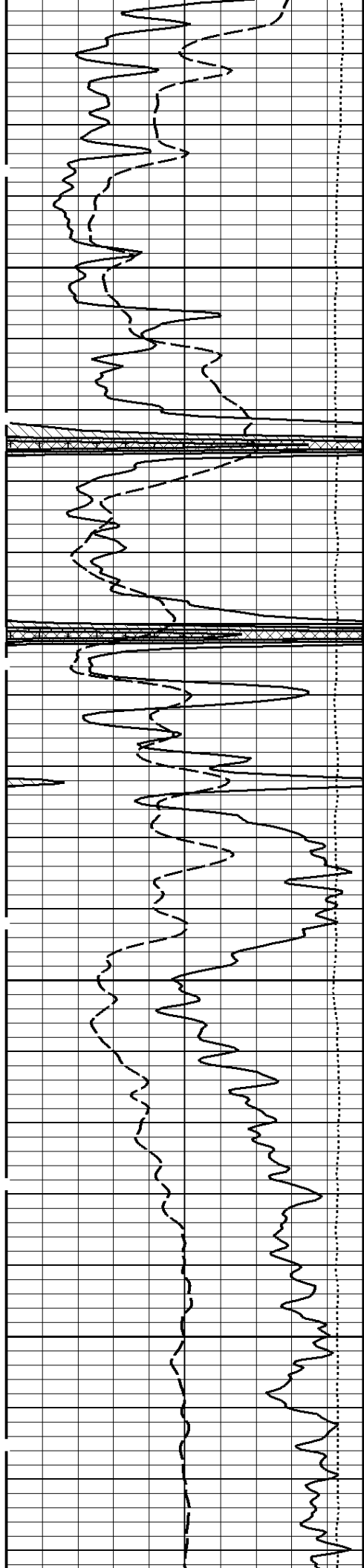




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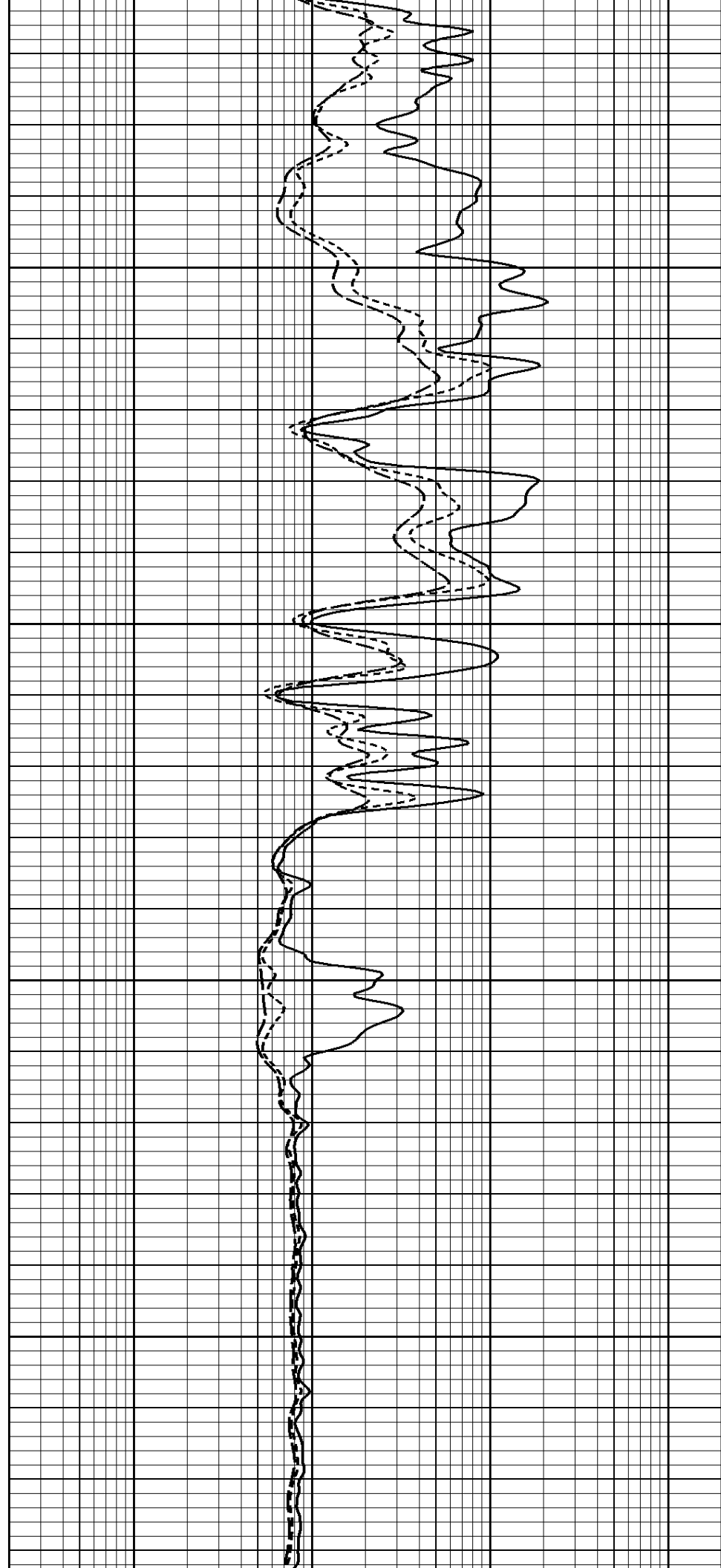
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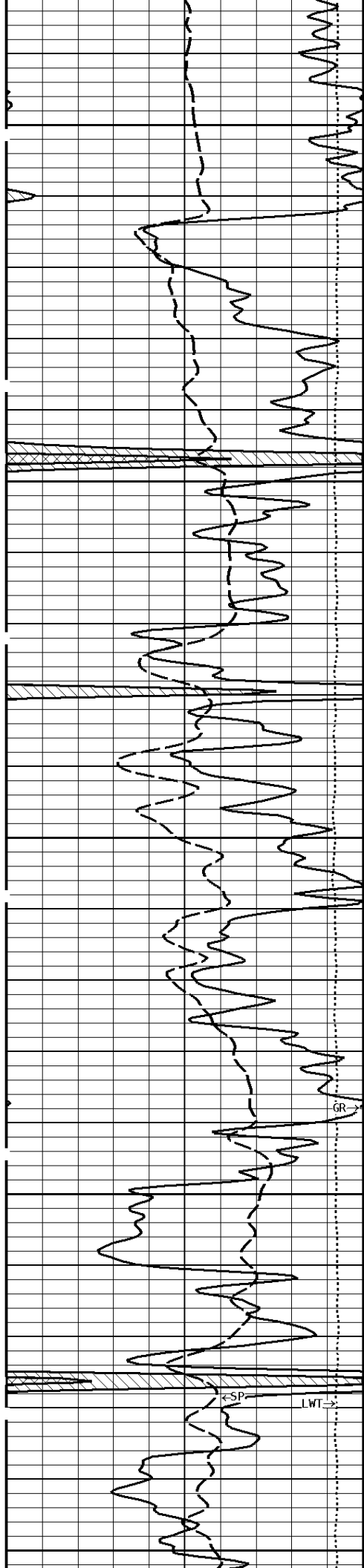




300

400

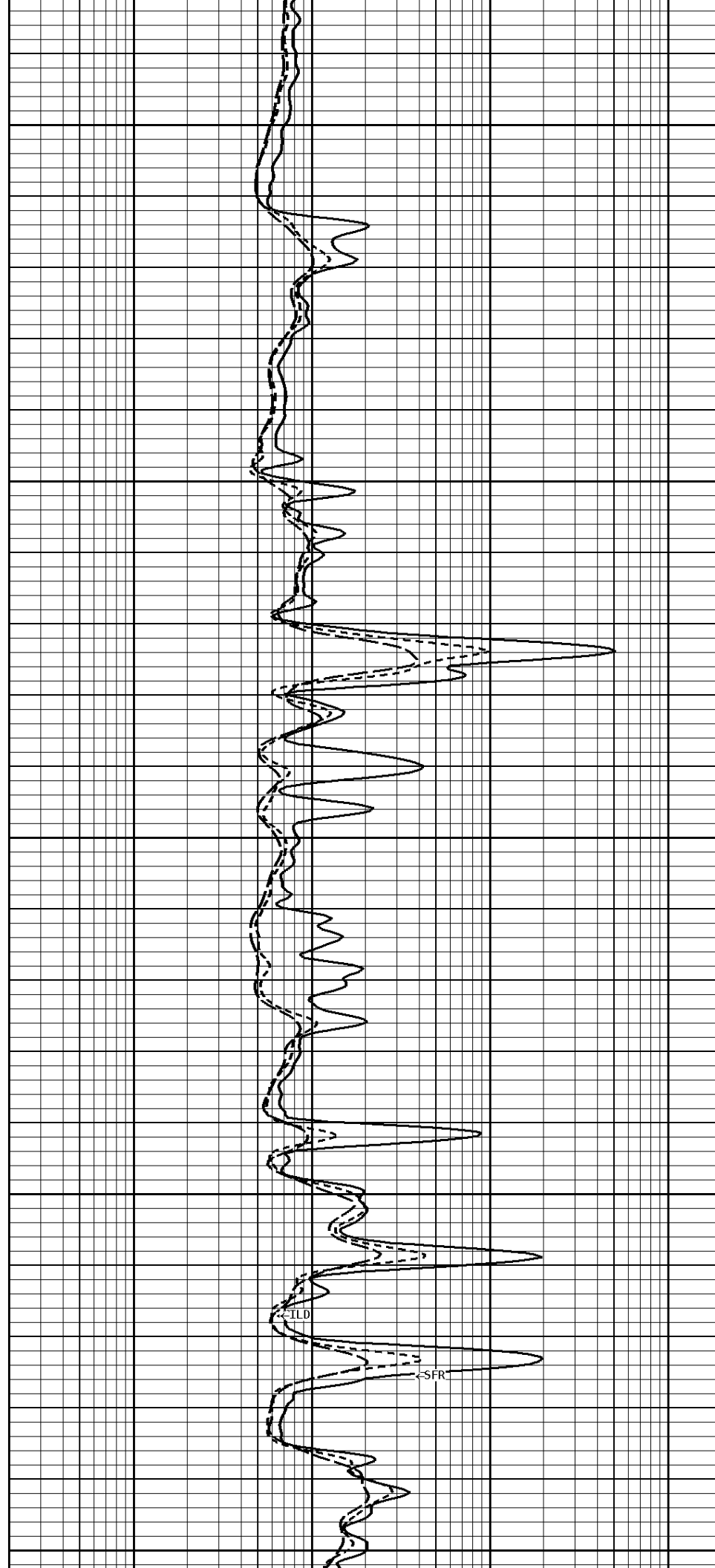


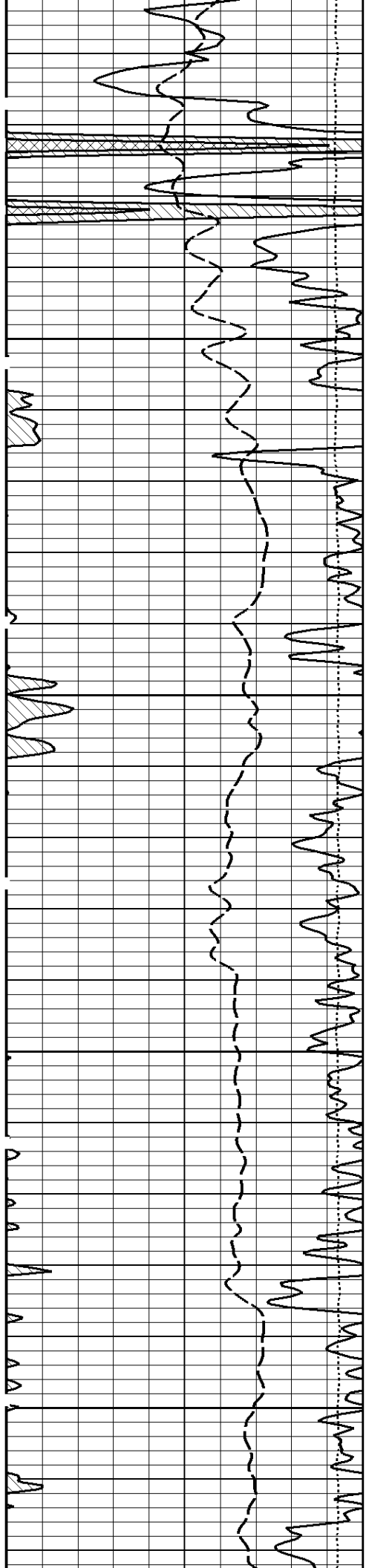


500

600

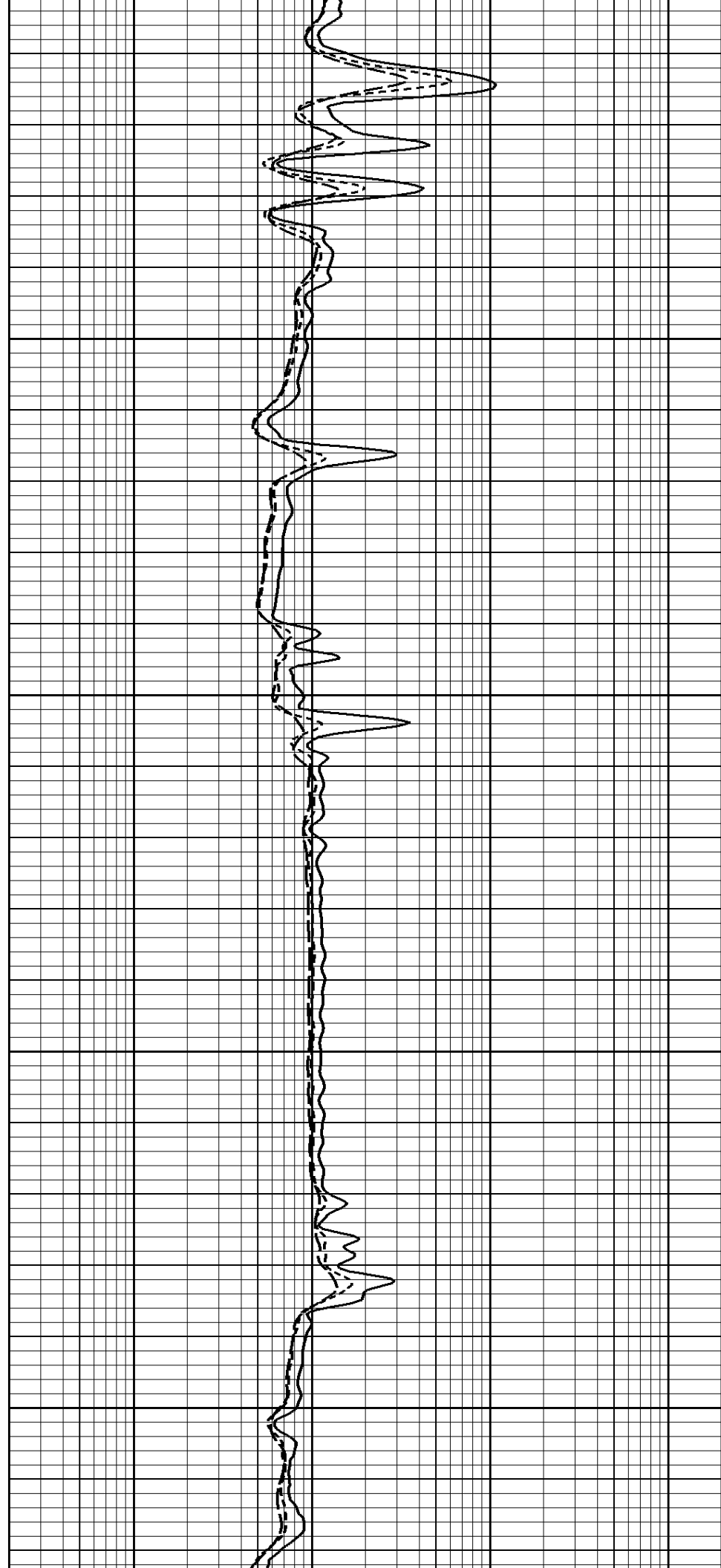
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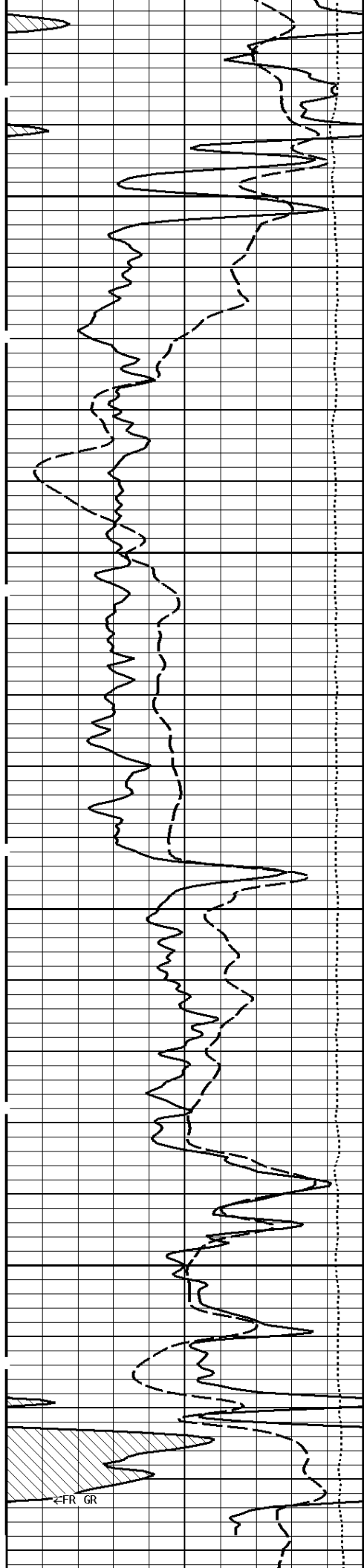




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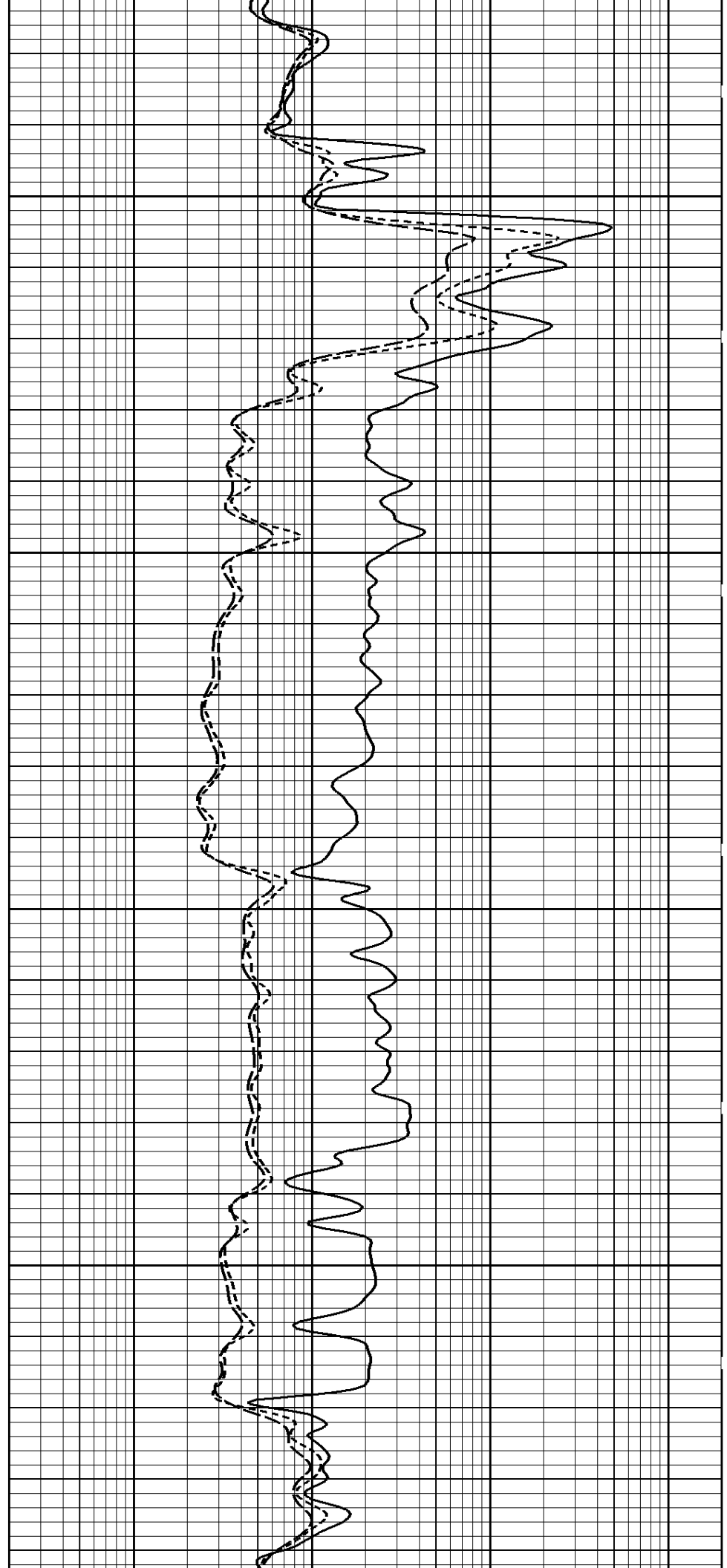
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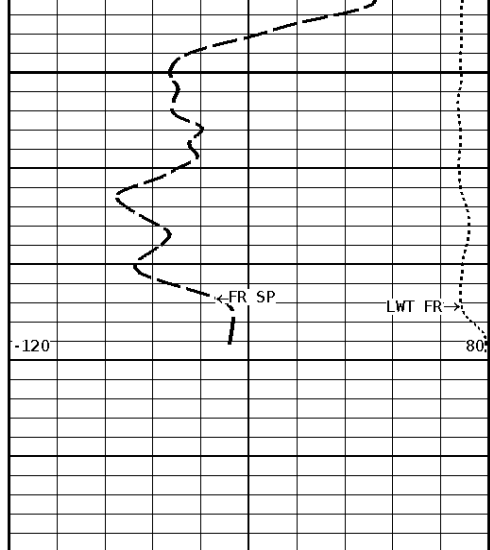




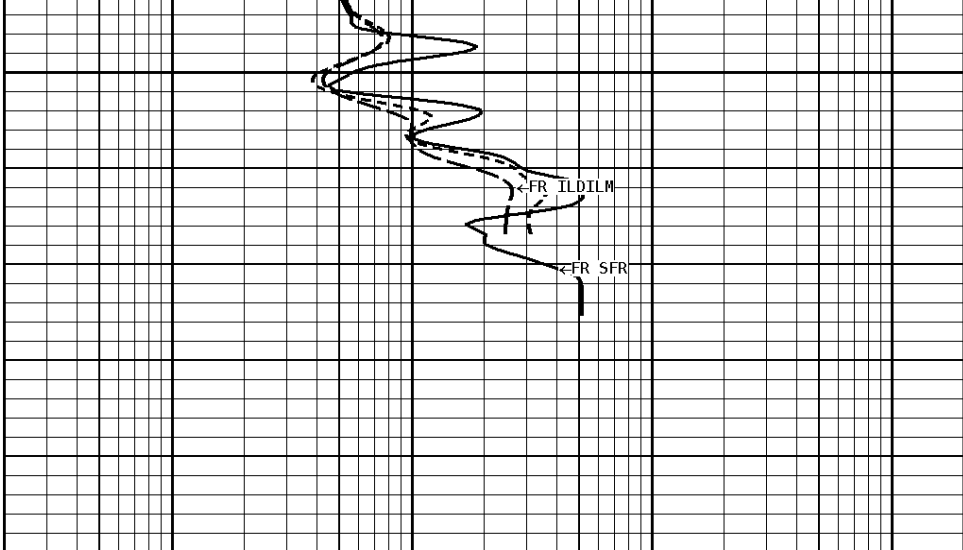
1000

1100

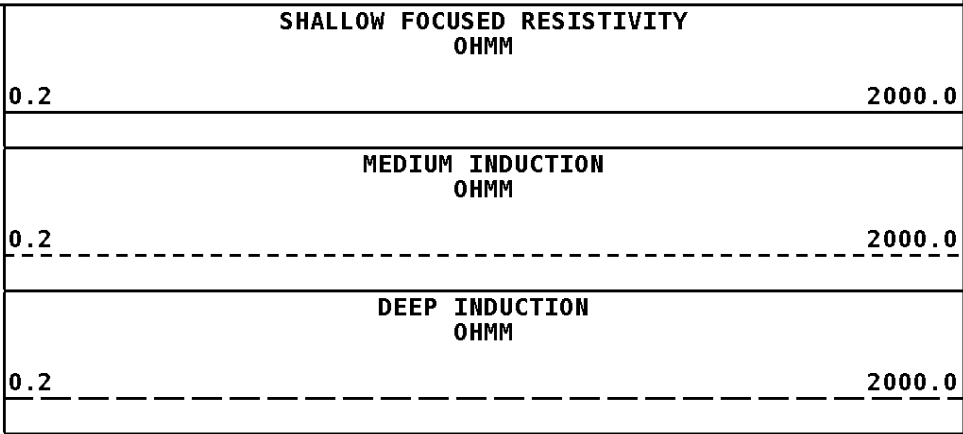
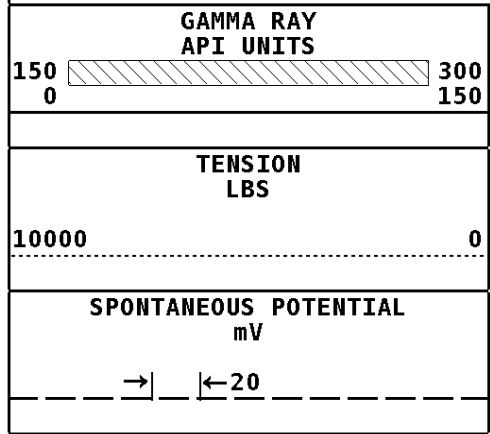




1175



1:240 MAIN SECTION



*** Borehole Zone Factors ***

Zone 1		99999.0 to		0.0 Feet	
Drill Bit Size	_____	6.750	in		
Casing Diameter	_____	4.500	in		
BHT Depth	_____	1175.000	ft		
Borehole Temperature	_____	78.0	degF		
Temperature Gradient	_____	1.00	DFHF		
Resistivity Of Mud	_____	1.600	ohm/m		
Resistivity Of Mud Temperature	_____	54.00	degF		

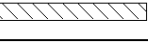
*** Calibration Summary ***

Shop Calibration					
GRT-B					
Performed : 30-OCT-2013			Time : 14:06		
Sensor Suite : GR-GR5			ID : GRT-BB-006		
	Measured	Units	Calibrated	Units	
GR	Background	Jig	Jig	GRAPI	
	60	375	175		

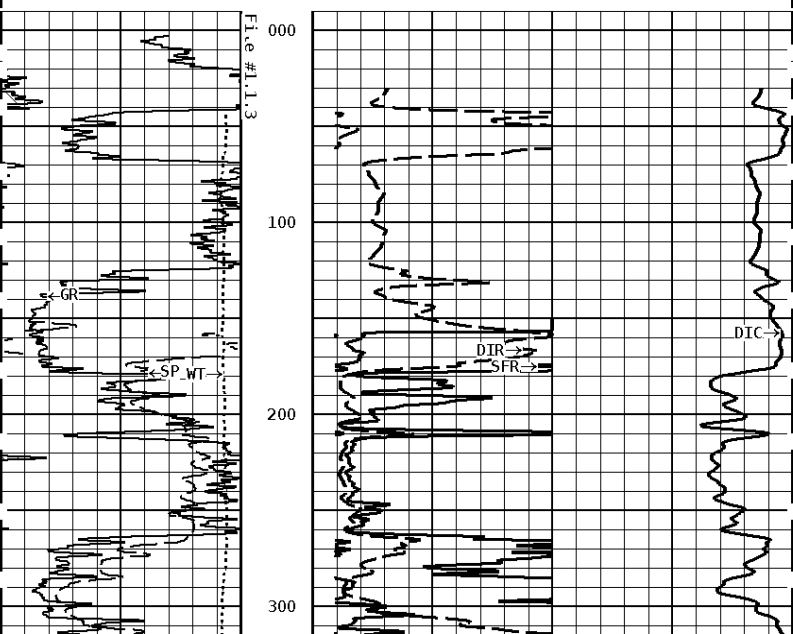
Shop Calibration					
PIT-CA					
Performed : 08-NOV-2013			Time : 09:27		
Sensor Suite : P-IND-T			ID : PIT-BA-20		
	Measured		Calibrated		Units
	R	X	R	X	
Air	131860	129614	-5.1	-5.1	MMHOS
Zero	131066	131069	-40.6	60.3	MMHOS
Reference	244057	243603	4959.4	5060.3	MMHOS
Loop	129868	210406	3496.4	3672.8	MMHOS
Grade Error			0.2	1.1	MMHOS

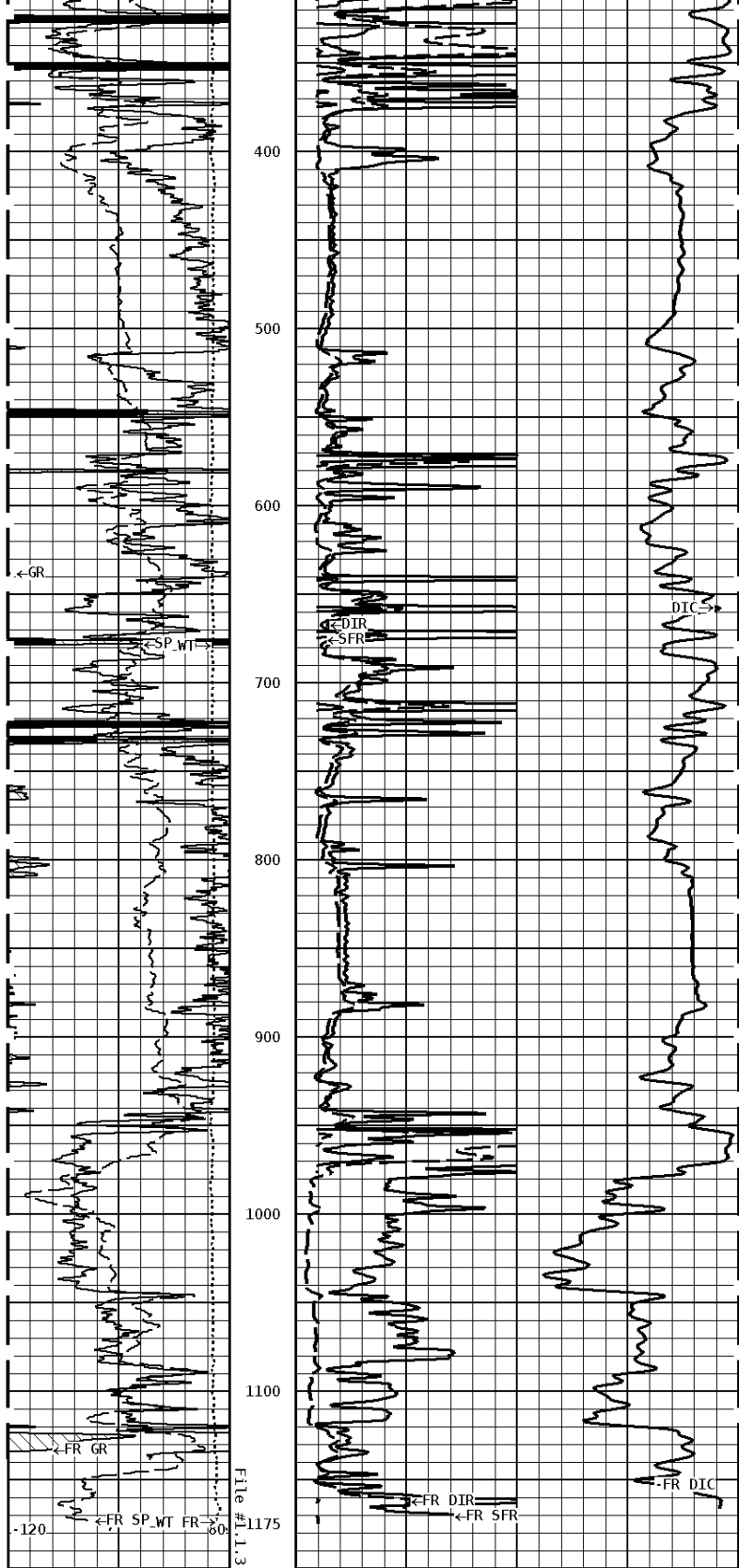
Sonde Error	0.2	1.1	MMHOS
Cond	4959.4	5060.3	MMHOS
Deep			
	Measured		Calibrated
	R	X	Units
Air	129157	131568	-0.1 0.0 MMHOS
Zero	131081	131069	43.1 -14.4 MMHOS
Reference	226048	227321	2043.1 1985.6 MMHOS
Loop	126361	212922	1631.5 1749.4 MMHOS
Sonde Error			-1.5 -6.6 MMHOS
Cond			2043.1 1985.6 MMHOS
Temperature			
	Measured		Calibrated
	Low	High	Units
	16980.0	56920.0	70.0 350.0 DEGF
Performed : 08-Nov-2013		Time : 09:15	
Sensor Suite : SFL		ID : PIT-BA-20	
Internal			
	Measured		Calibrated
	Zero	Reference	Units
Im	32774.8	48759.8	0.0 7028.0 uA
Ib	32766.0	48362.0	0.0 1750.0 mA
MOM1	32803.6	55891.6	0.0 175.0 mV
Equivalent SFL			43.97 OHMM
Performed : 08-Nov-2013		Time : 09:12	
Sensor Suite : P-SP		ID : PIT-BA-20	
Internal			
	Measured		Calibrated
	Zero	Reference	Units
	32795.0	58951.6	0.0 1000.0 mV

Well File: COLT BAKER BF-4A DEC 14 STK Scale: 1:1200 Format: DIL1200
Segment: V1.D1.S3 MAIN Acquired: 2013-12/14 12:18 3.3.0-12554
Reference: 0 Processed: 2013-12/14 12:56 3.3.0-12554

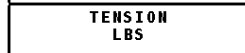
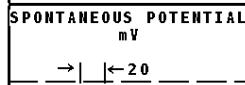
TENSION LBS	DEEP INDUCTION OHMM
10000 ----- 0	0.0 ----- 500.0 0.0 ----- 50.0
SPONTANEOUS POTENTIAL mV	SHALLOW FOCUSED OHMM
→ ← 20	0.0 ----- 500.0 0.0 ----- 50.0
GAMMA RAY API UNITS	DEEP CONDUCTIVITY MHMO
150  300 0 ----- 150	2000 ----- 1000 1000 ----- 0

1:1200 MAIN SECTION





1:1200 MAIN SECTION



1.0000 0

0.0 50.0



Tucker
ENERGY SERVICES

Company: COLT ENERGY INC.

Well: BAKER #BF-4A

Location: 1209' FSL & 1570' FWL

Logged: 12-14-2013

K.B. Elev: 0.0 Ft