Tucker WIRELINE SERVICES

DUAL INDUCTION RESISTIVITY LOG

Company AMERICAN ENERGIES CORPOR
Well ADE #1-6
Field WILDCAT
County MARION
State KANSAS
Country USA
API No. 15-115-21422

File No : 55600
Company : AMERICAN ENERGIES CORPORATION
Well : ADE #1-6
Field : WILDCAT
County : MARION
State : KANSAS
Country : USA
API No : 15-115-21422

Location :
1650' FSL & 1650' FEL
SE NW SE

LSD : **Sect :** 6 **Twp :** 19S **Rge :** 1E

Permanent Datum:	GL	**Elevations:**		**Services:**	
Drilling Measured From:	KB	**KB**	1560.00 Ft	GRT	MLT
Log Measured From:	KB	**DF**	1559.00 Ft	CNT	CST
Above Permanent Datum:	9.00 Ft	**GL**	1551.00 Ft	LDT	PIT

Date	May 20 2011						
Run Number	1						
Depth--Driller	2959.0 Ft						
Depth--Logger	2961.0 Ft						
First Reading	2961.0 Ft						
Last Reading	222.0 Ft						
Casing--Driller	222.0 Ft						
Casing--Logger	222.0 Ft						
Bit Size	7.875 In						
Casing Size	8.625 In						
Hole Fluid Type	WBM						
Density	8.5 LBS/GAL						
Fluid Loss	0.0 CC						
PH/Viscosity	0.0	50.0 SEC					
Sample Source	MEASURED						
RM@Measured Temp.	1.000 @ 45 F						
RMF@Measured Temp	0.850 @ 45 F						
RMC@Measured Temp.	1.150 @ 45 F						
Source RMF/RMC	CALCULATED	CALCULATED					
RM@BHT	0.000 @ 80 F						
Time Circulation Stopped							
Max Recorded Temp.	80 F						
Equipment/Base	TRK123	TULSA					
Recorded By	T. MONTGOMERY						
Witnessed By	D. BARKER						

Bitsize Intervals

Size (In)	Bottom (Ft)
7.875	2959.00

Casing Strings

Size (In)	Weight (Lbs)	Bottom (Ft)
8.625	24.00	222.00

Run Number	1						
Date	May 20 2011						
Date/Time On Bottom							
Depth to Fluid	0.0 Ft						
Salinity	0.000 PPM						
RMF@BHT	0.000 @ 80 F						
RMC@BHT	0.000 @ 80 F						

Run Number 1

Comments

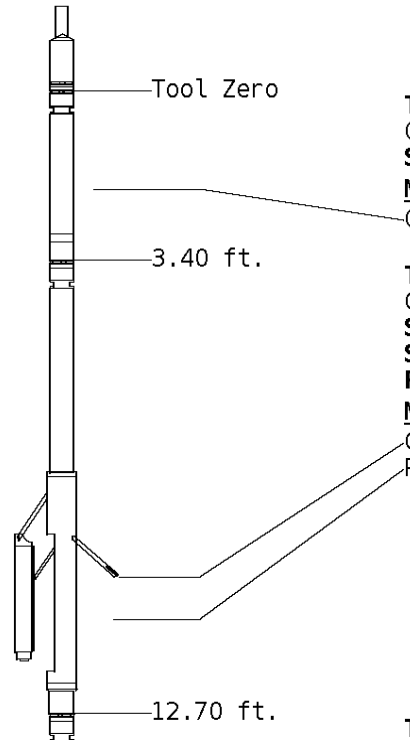
ALL PRESENTATIONS AS PER CUSTOMER REQUEST
GRT, CNT, LDT, MLT, CST, AND PIT RUN IN COMBINATION.
CALIPERS ORIENTED ON X-Y AXIS.
2.71 G/CC USED TO CALCULATED POROSITY.
ANNULAR HOLE VOLUME CALCULATED UISING 5.50" PRODUCTION CASING.
DETAIL PRESENTED FROM TD 2700' AS PER CUSTOMER REQUEST.

GRT: GRP.
CNT: PHIN, CLCNIN.
LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN.
MLT: NOR_R, INV_R, MSCLPIN.
CST: PORS, ITT, CDTF, TT1, TT2, TT3, TT4.
PIT: ILD, ILM, SPU, SFLAEC.

OPERATORS:
M. GARNER
S. DAVIS

Tool String Schematic

Total Tool Length - 66.95 **ft.**
Maximum Outside diameter - 6.00 **in.**
Net Weight in Air - 1171.00 **lbs.**



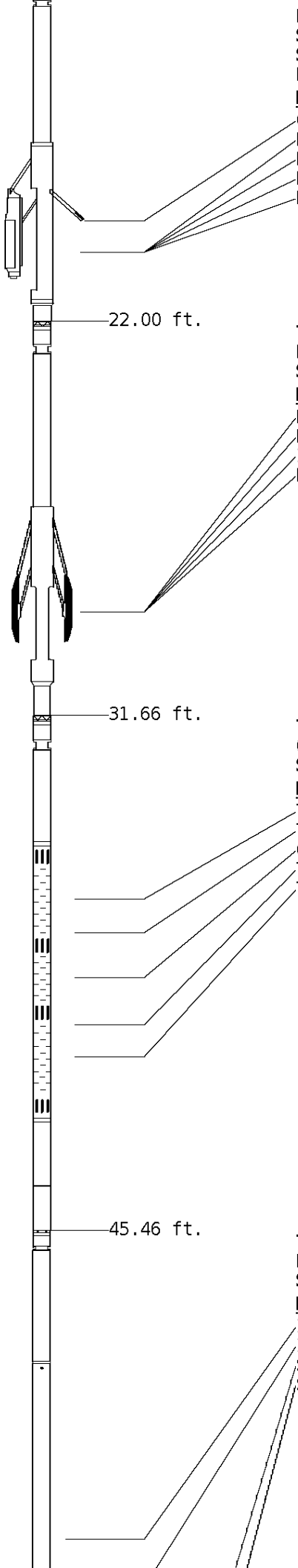
Tool: GRT-B **Length:** 3.40 **ft.** **O.D.** 3.60 **in.**
Gamma Ray Controller
Sonde ID :GRT-BA-15

Measure Point	Tool Offset	Stack Offset	Bottom Offset
GRP	2.00	2.00	64.95

Tool: CNT-AA **Length:** 9.30 **ft.** **O.D.** 4.36 **in.**
Compensated Neutron A Pad on NDT-A
Sonde ID :NDT-AC-027
Source ID :N-1046
Pad ID :CNP-AA-112

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLCN	6.00	9.40	57.55
PHIN	6.80	10.20	56.75

Tool: LDT-DA **Length:** 9.30 **ft.** **O.D.** 4.80 **in.**



Litho Density D Pad on NDT-A
Sonde ID :PDT-GA-472
Source ID :2991GW
Pad ID :LDP-DA-067

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLLD	6.00	18.70	48.25
PEL	7.00	19.70	47.25
PES	7.40	20.10	46.85
LDEN	7.20	19.90	47.05
LCOR	7.20	19.90	47.05

Tool: MST-DA **Length:** 9.66 **ft.** **O.D.** 6.00 **in.**
Micro Spherically Focused (IC)
Sonde ID :MST-NG-26

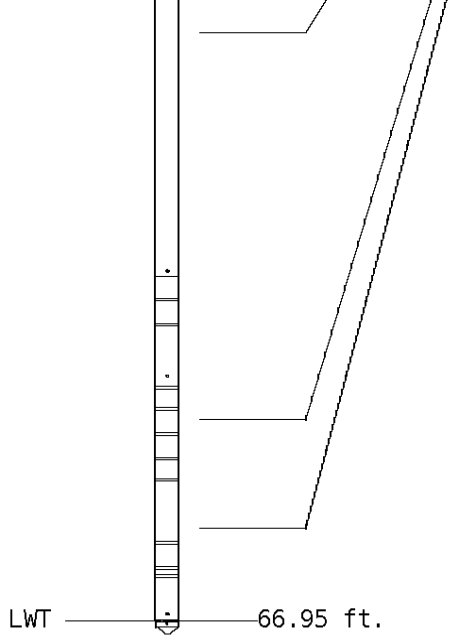
Measure Point	Tool Offset	Stack Offset	Bottom Offset
MSFL	7.60	29.60	37.35
MSCLP	7.60	29.60	37.35
INV	7.60	29.60	37.35
NOR	7.60	29.60	37.35

Tool: CST-AD **Length:** 13.80 **ft.** **O.D.** 3.60 **in.**
Open Hole Sonic
Sonde ID :CST-AD-38

Measure Point	Tool Offset	Stack Offset	Bottom Offset
TT1	4.80	36.46	30.49
TT3	5.80	37.46	29.49
CDT	7.30	38.96	27.99
TT4	8.80	40.46	26.49
TT2	9.80	41.46	25.49

Tool: PIT-CA **Length:** 21.49 **ft.** **O.D.** 3.62 **in.**
Phased Dual Induction w/ RM & D
Sonde ID :PIT-CA-069

Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	54.38	12.56
ILM	10.10	55.56	11.39
SFLU	17.49	62.95	4.00
SP	20.60	66.06	0.88



Well File: 123_AMER_ADE_1-6_MAY_20_QUINT	**Scale:** 1:600
Segment: V1.D4.S1 MN	**Acquired:** 2011-05/20 03:48 3.2.0-9901
Reference: 0	**Processed:** 2011-05/20 03:48 3.2.0-9901

TENSION
LBS
10000 — 0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.0 — 500.0
0.0 — 50.0

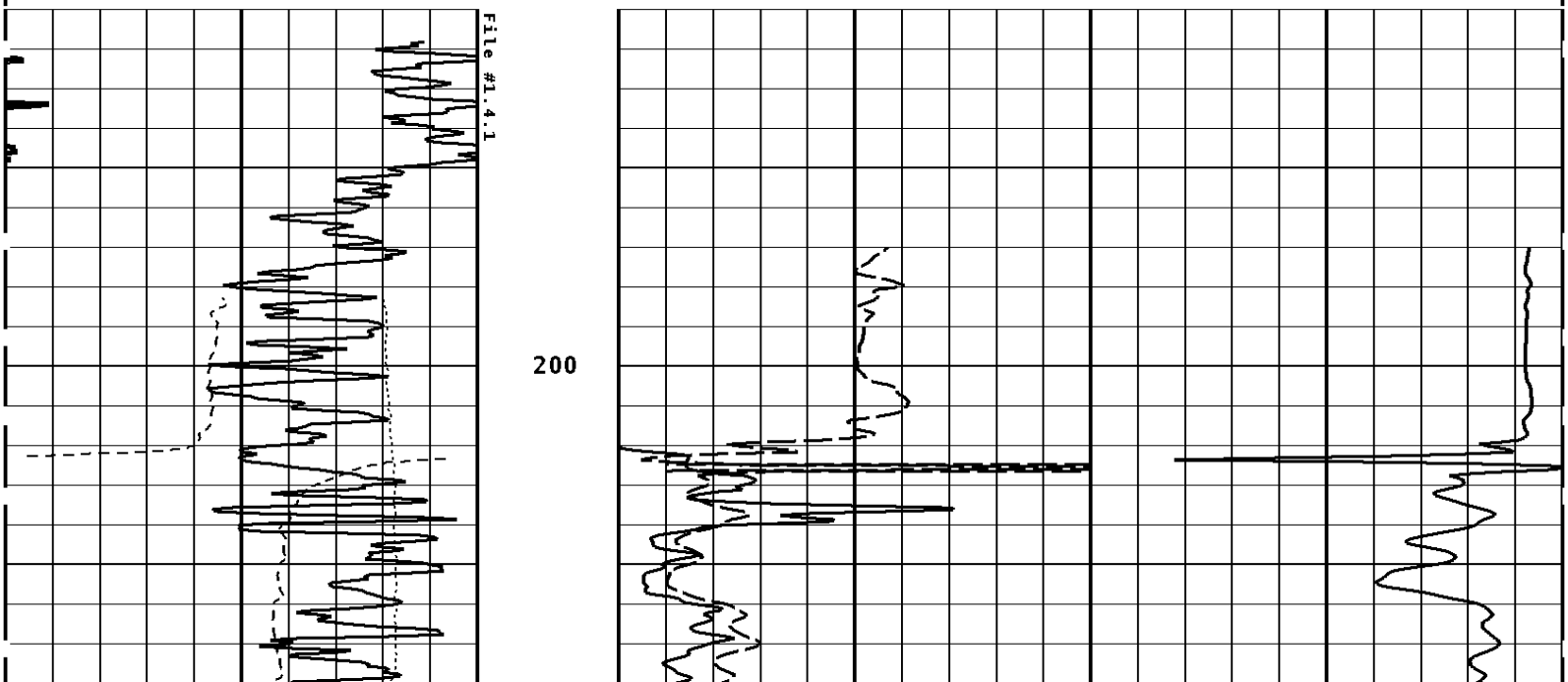
SPONTANEOUS POTENTIAL
mV
→ | ←20

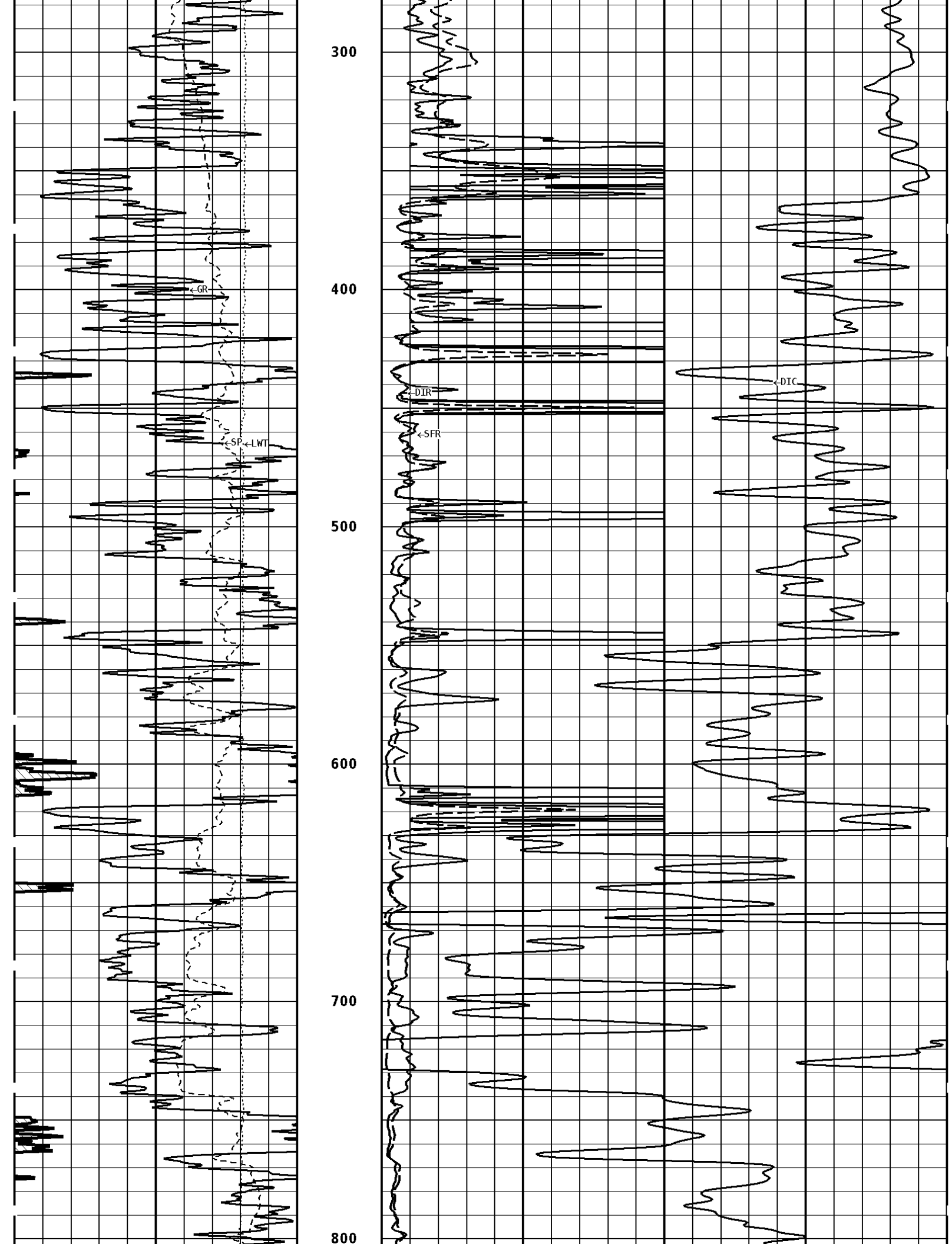
DEEP INDUCTION
OHMM
0.0 — 500.0
0.0 — 50.0

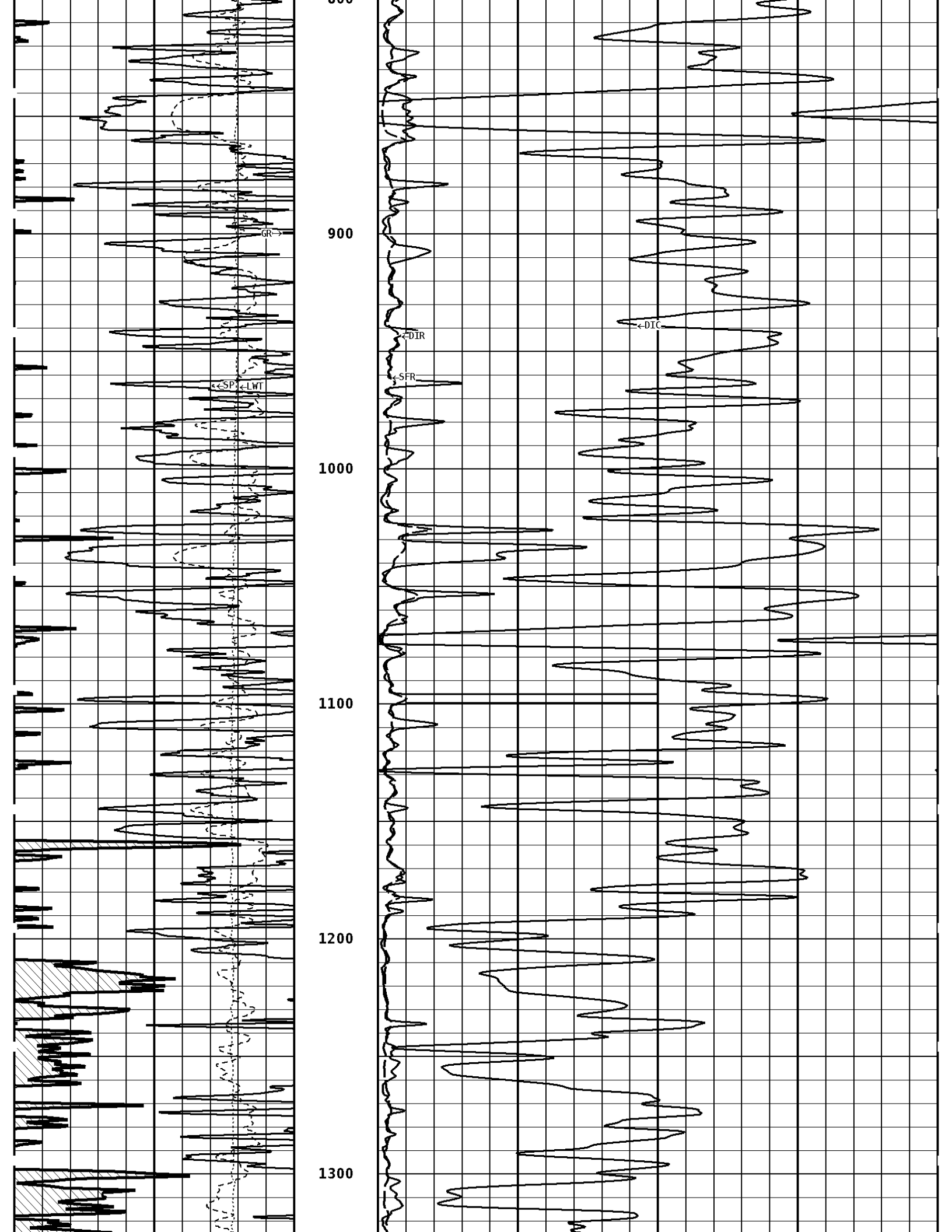
GAMMA RAY
API UNITS
150 — 300
0 — 150

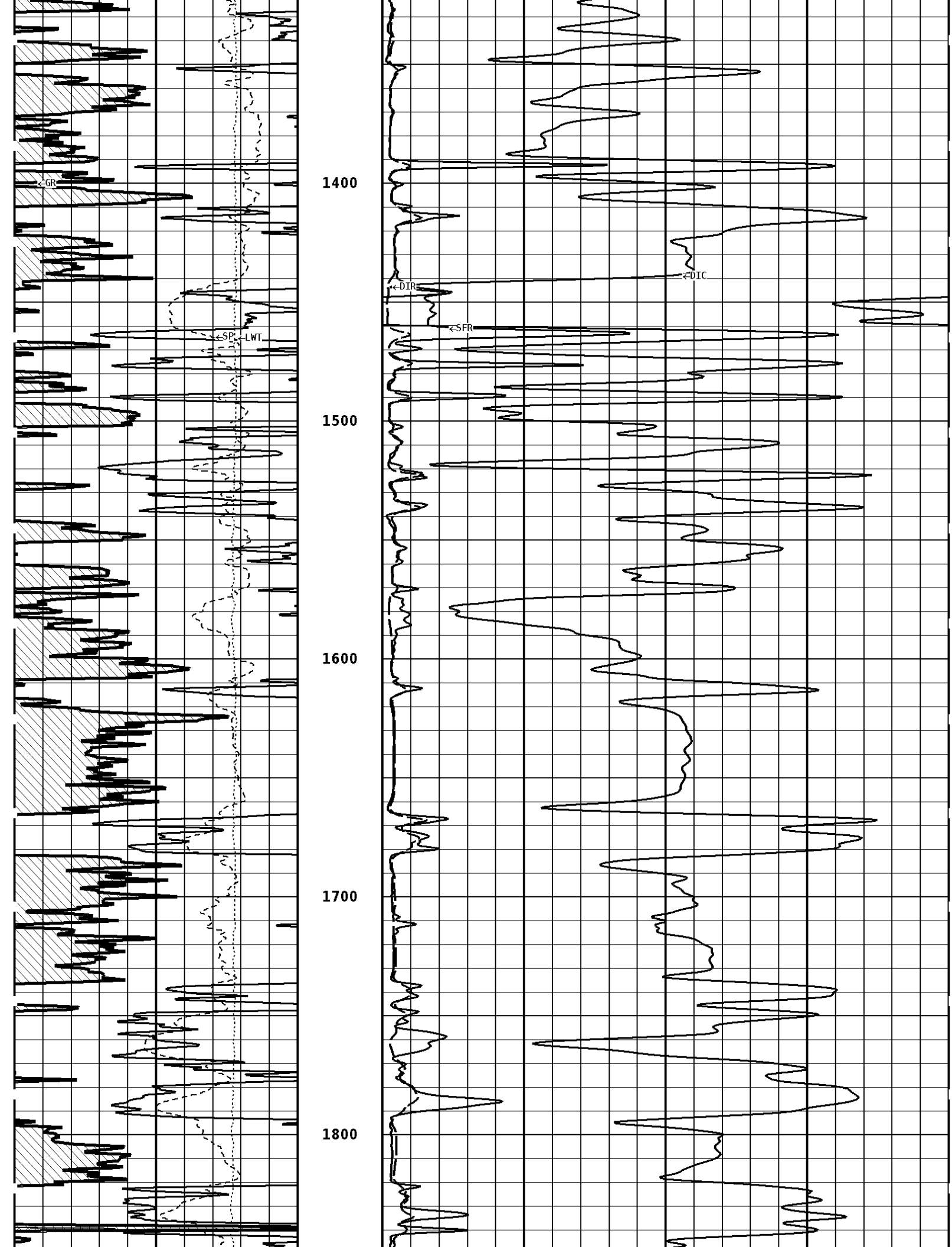
DEEP CONDUCTIVITY
MMHO
2000 — 1000
1000 — 0

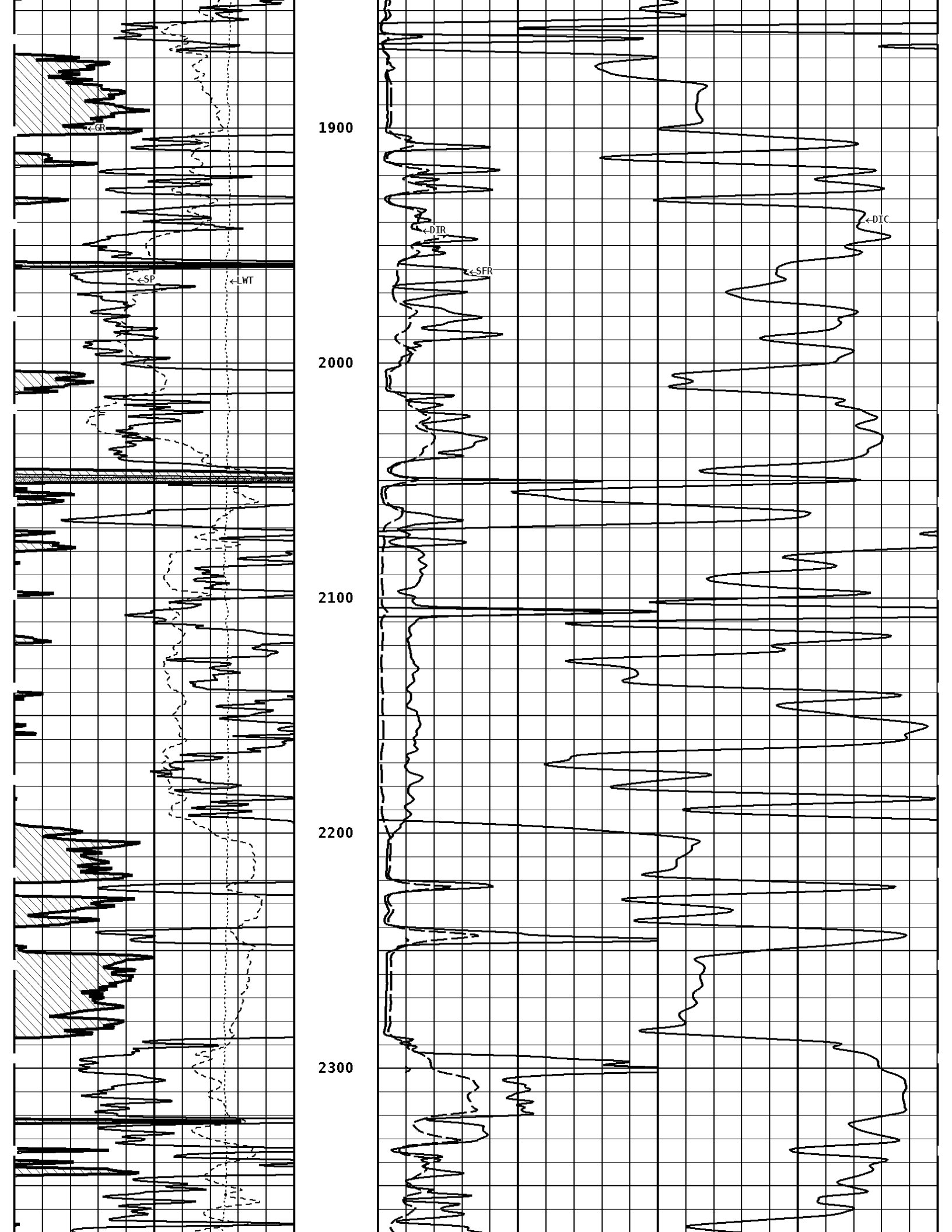
1:600 SECTION

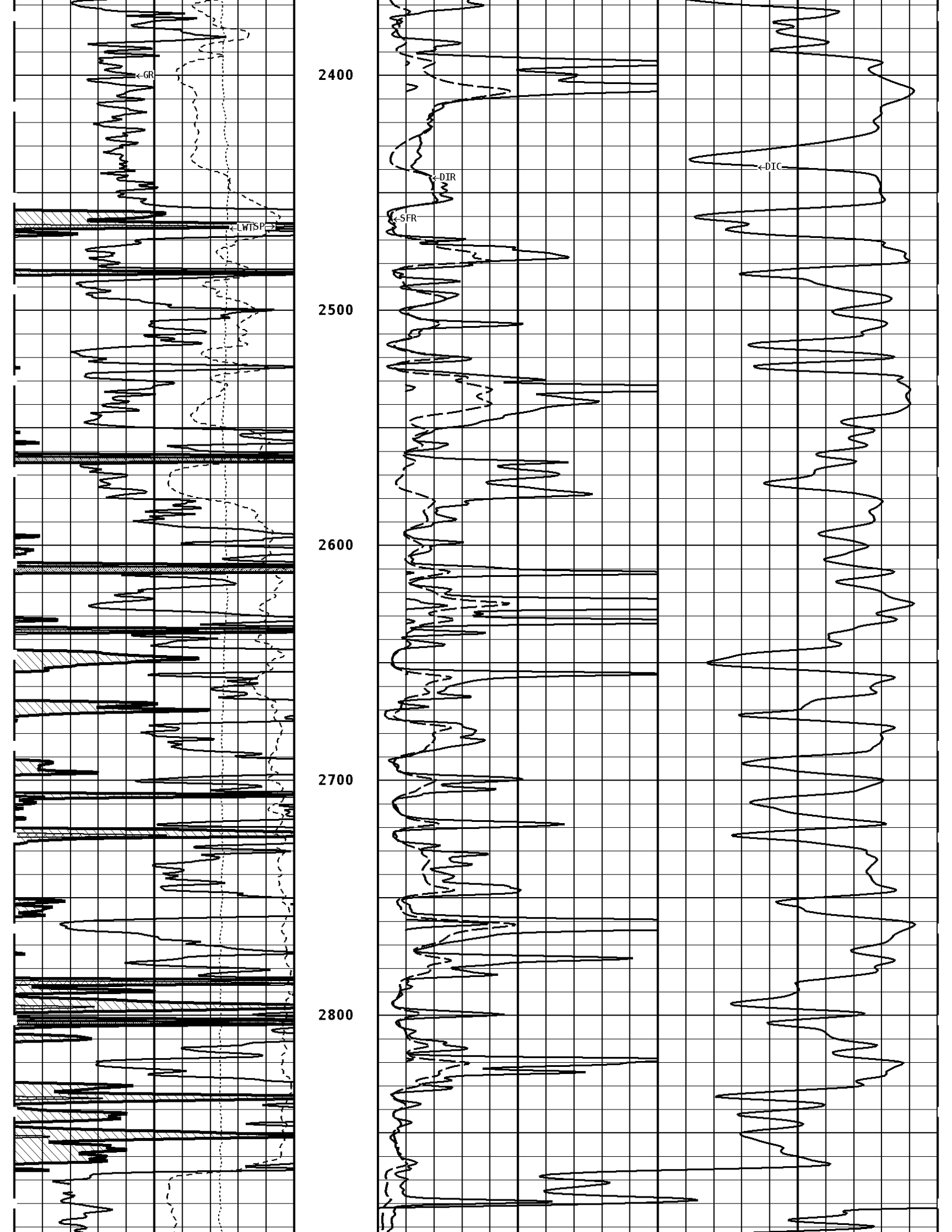


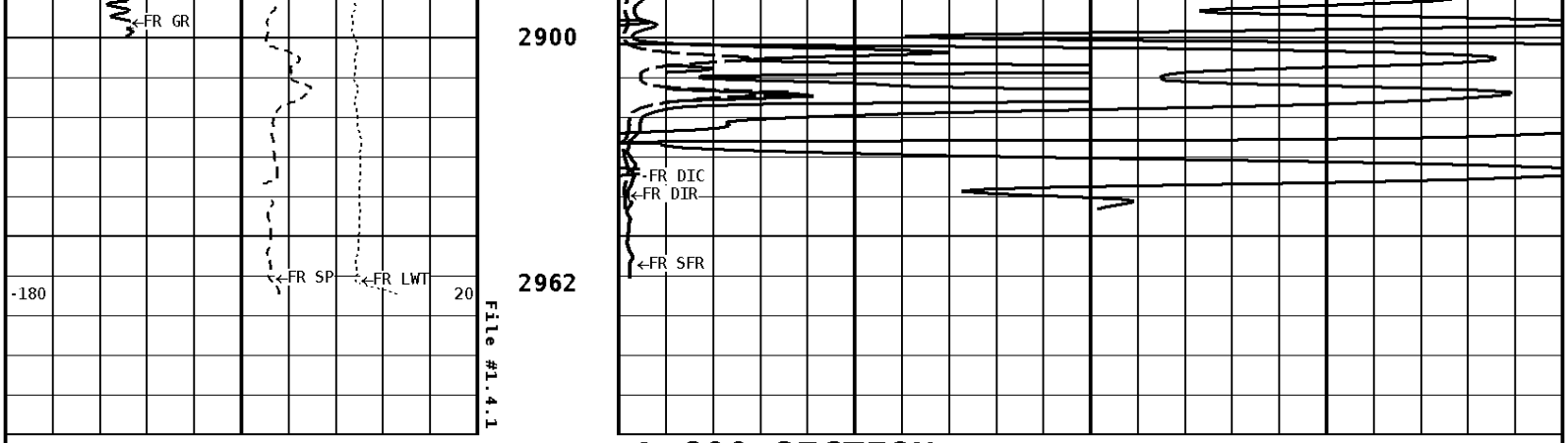

300
400
500
600
700
800
GR
SP
LWT
DIR
SFR
DIC


900
GR
DIC
DIR
SFR
SP
LWT
1000
1100
1200
1300


GR
SP
LWT
DIR
SFR
DIC
1400
1500
1600
1700
1800


←GR
←SP
←LWT
1900
2000
2100
2200
2300
←DIR
←SFR
←DTC


GR
LWTSP
DTR
SFR
DTC
2400
2500
2600
2700
2800



1:600 SECTION

GAMMA RAY
API UNITS
150 — 300
0 — 150

SPONTANEOUS POTENTIAL
mV
→| |←20

TENSION
LBS
10000 — 0

DEEP CONDUCTIVITY
MMHO
2000 — 1000
1000 — 0

DEEP INDUCTION
OHMM
0.0 — 500.0
0.0 — 50.0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.0 — 500.0
0.0 — 50.0

Well File: 123_AMER_ADE_1-6_MAY_20_QUINT
Segment: V1.D4.S1 MN
Reference: 0
Scale: 1:240
Acquired: 2011-05/20 03:48 3.2.0-9901
Processed: 2011-05/20 03:48 3.2.0-9901

TENSION
LBS
10000 — 0

SPONTANEOUS POTENTIAL
mV
→| |←20

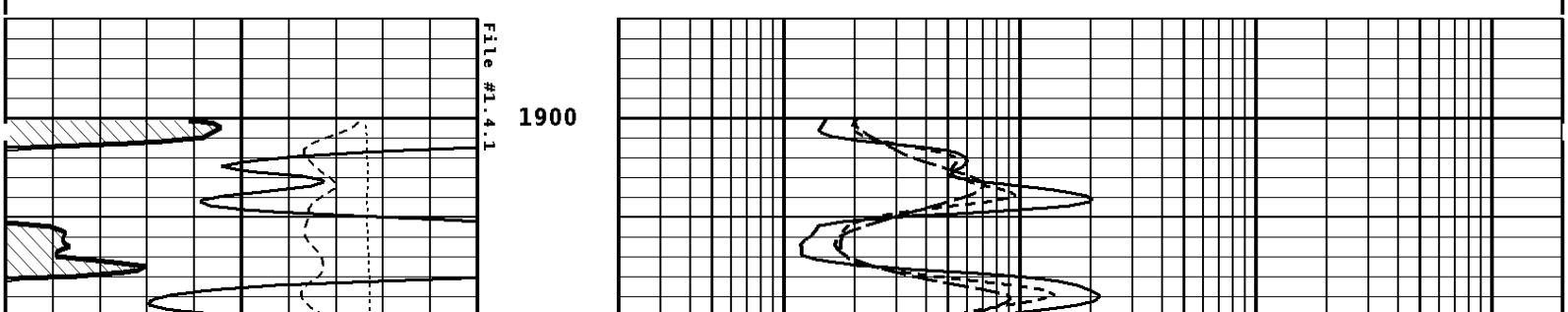
GAMMA RAY
API UNITS
150 — 300
0 — 150

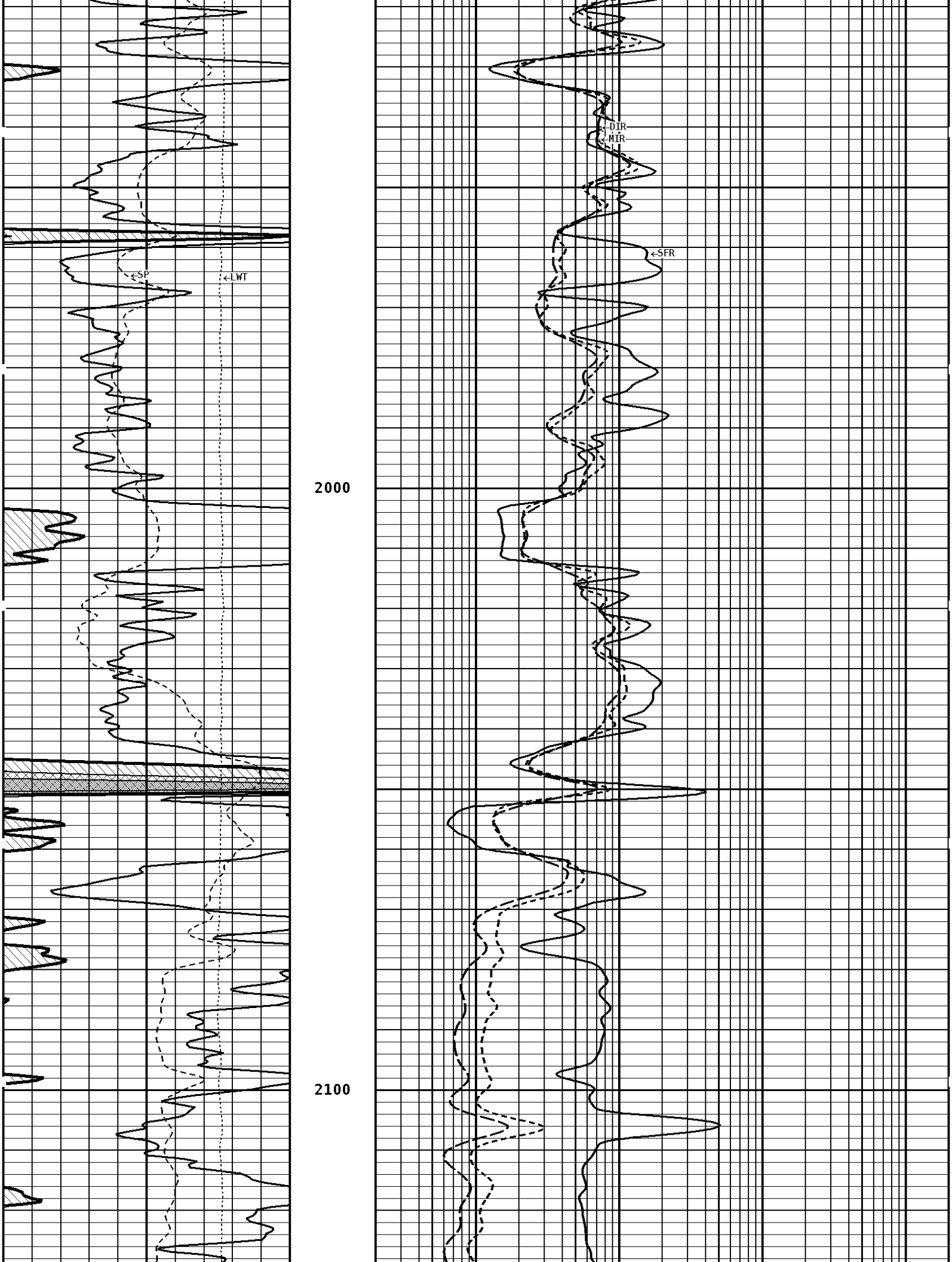
SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 — 2000.0

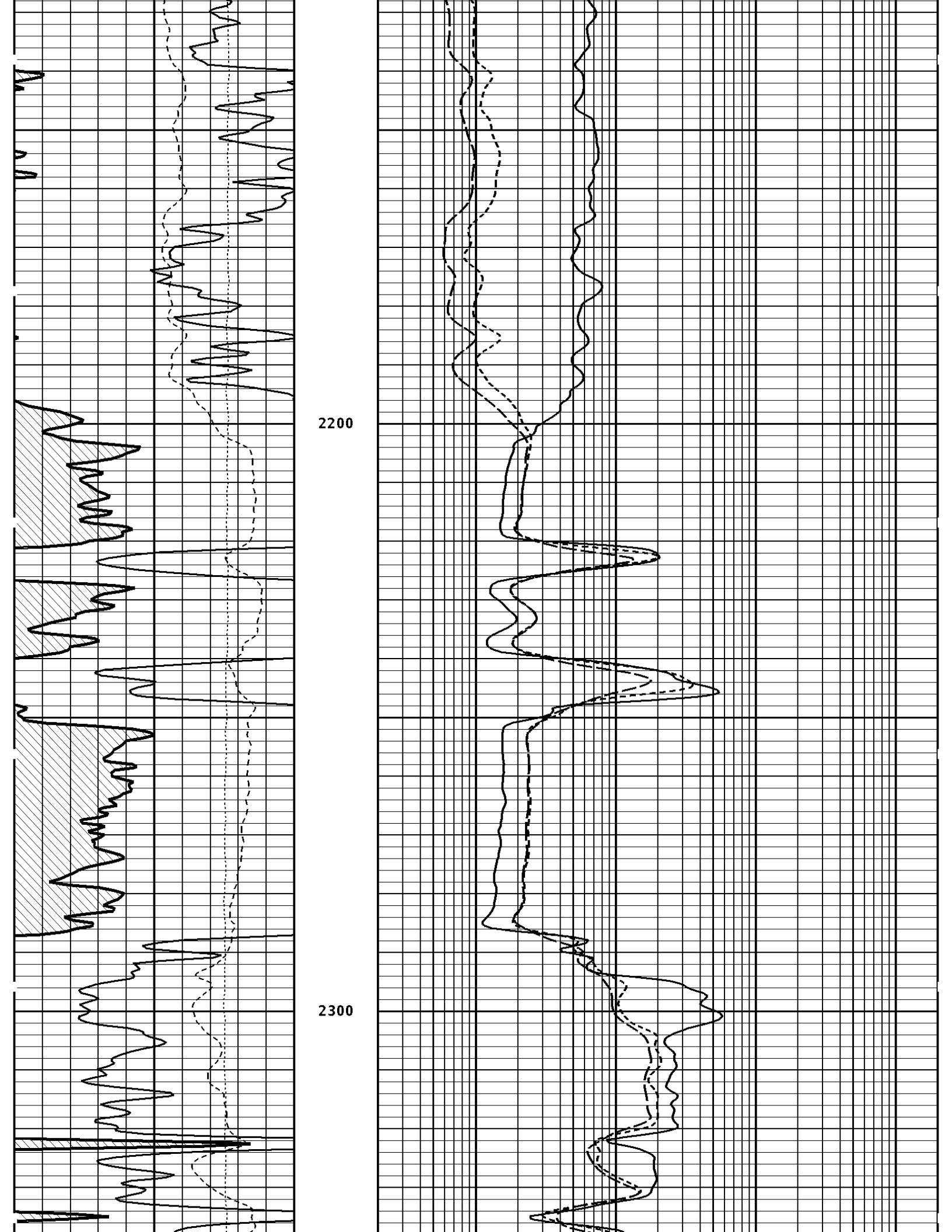
MEDIUM INDUCTION
OHMM
0.2 — 2000.0

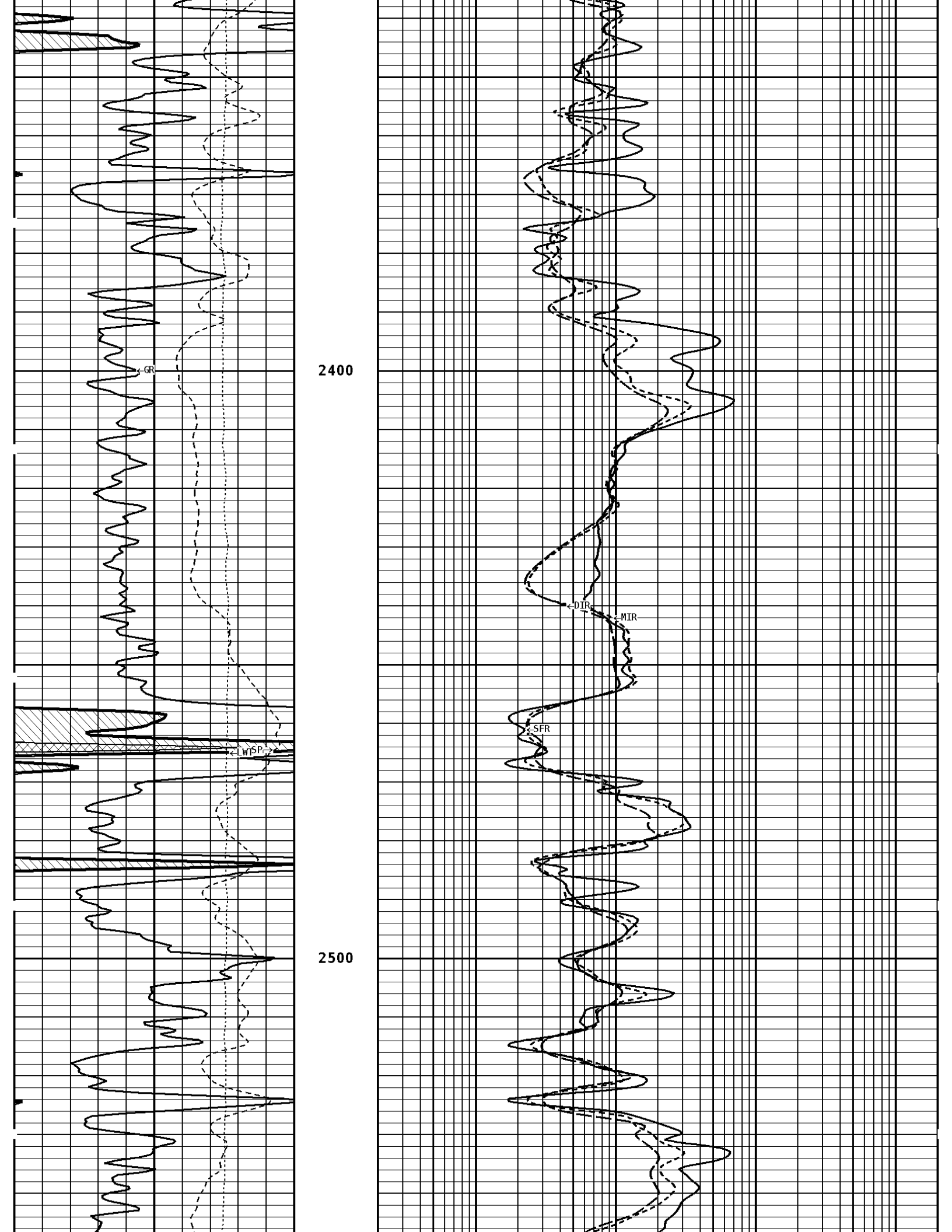
DEEP INDUCTION
OHMM
0.2 — 2000.0

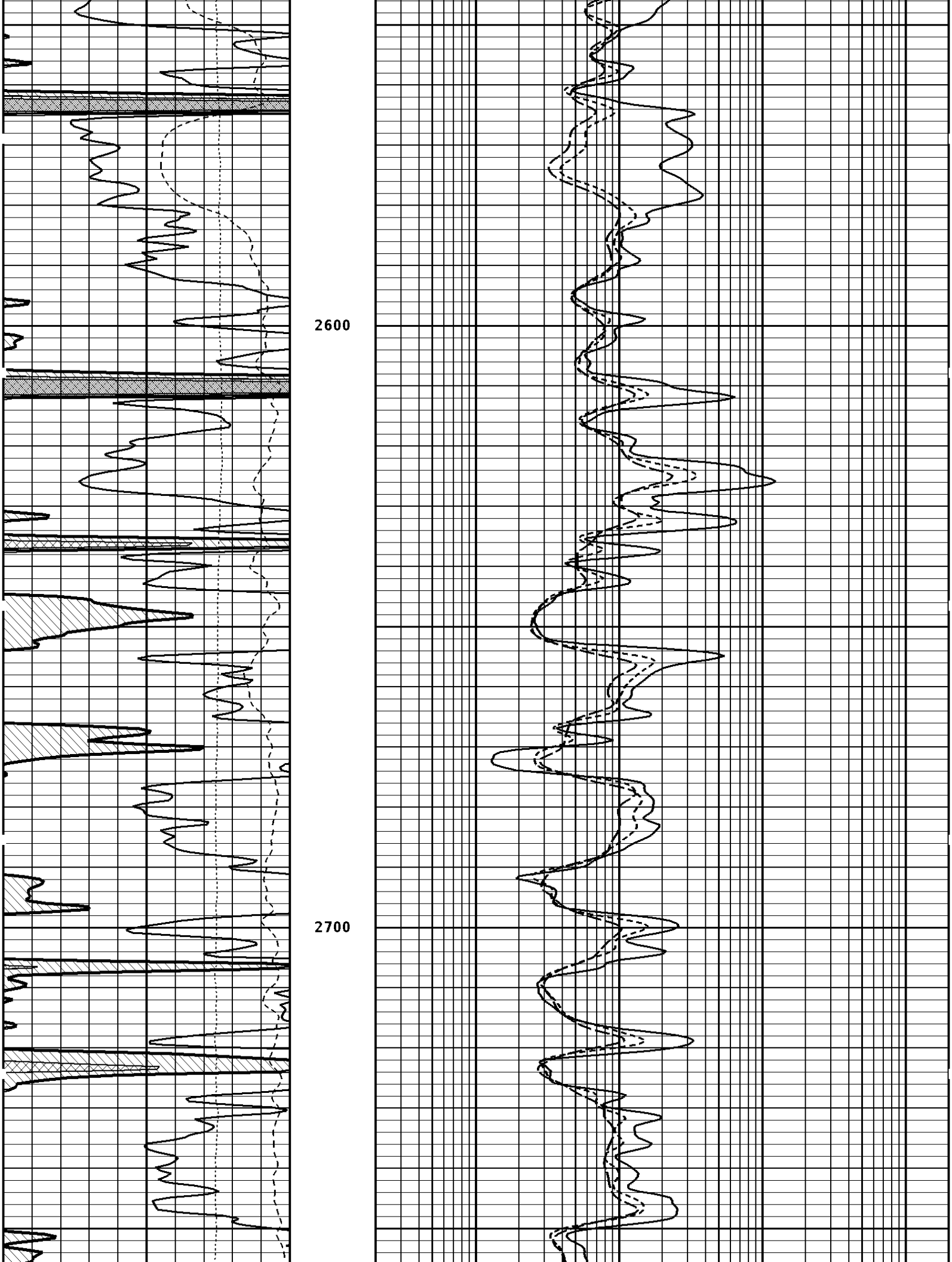
1:240 MAIN SECTION

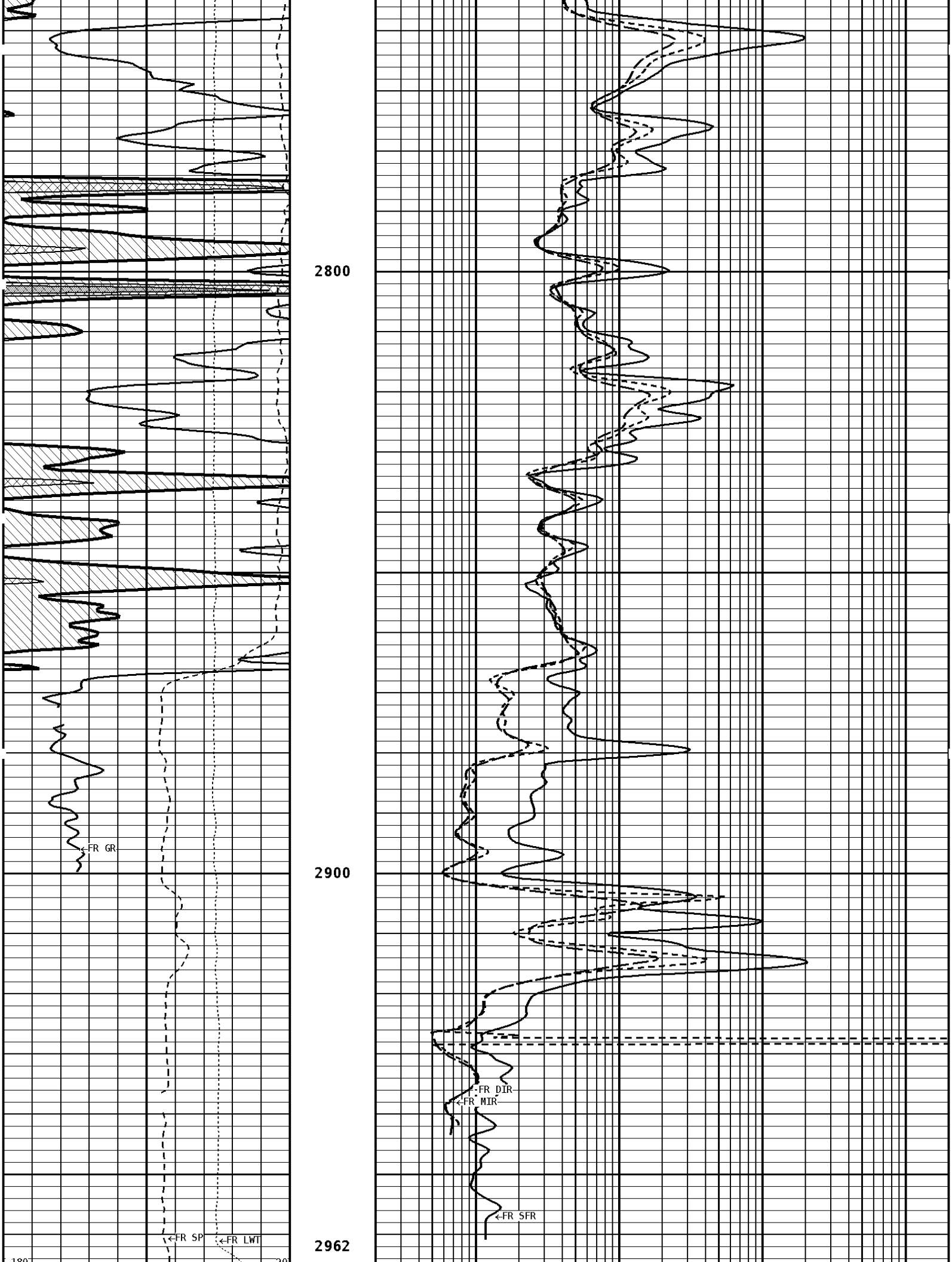


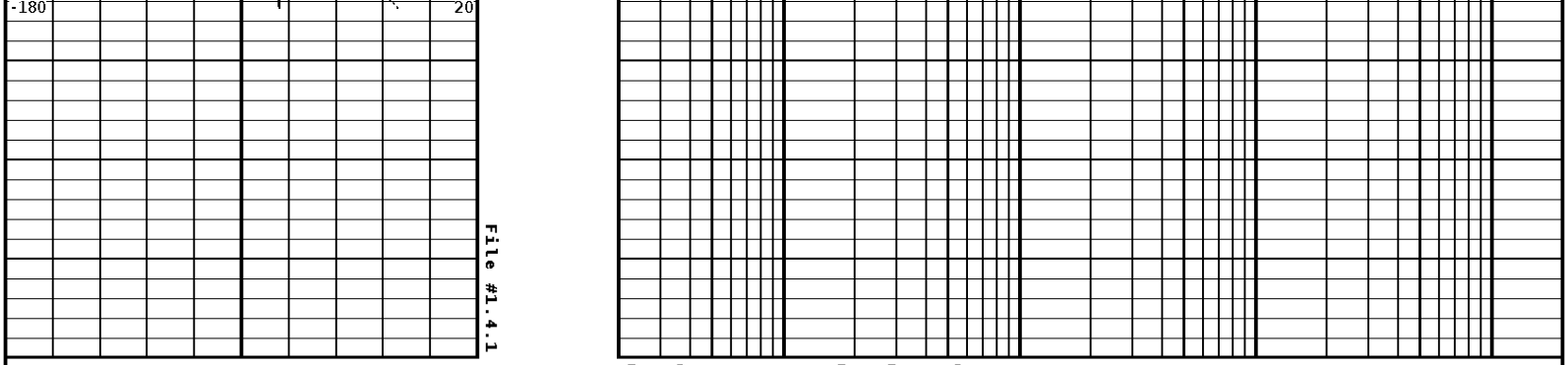

←SP
←LWT
←DIR
←MIR
←SFR
2000
2100


2200
2300


GR
2400
DIR
MIR
SFR
LWSP
2500


2600
2700


2800
2900
2962
FR GR
FR SP
FR LWT
FR DIR
FR MIR
FR SFR



1:240 MAIN SECTION

GAMMA RAY **API UNITS** 150 / 0 — 300 / 150	**DEEP INDUCTION** **OHMM** 0.2 — 2000.0
SPONTANEOUS POTENTIAL **mV** → ←20	**MEDIUM INDUCTION** **OHMM** 0.2 — 2000.0
TENSION **LBS** 10000 — 0	**SHALLOW FOCUSED RESISTIVITY** **OHMM** 0.2 — 2000.0

*** Borehole Zone Factors ***

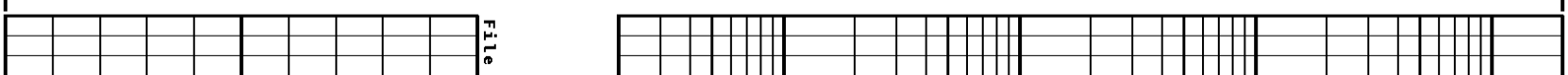
Zone 1 99999.0 to 0.0 Feet

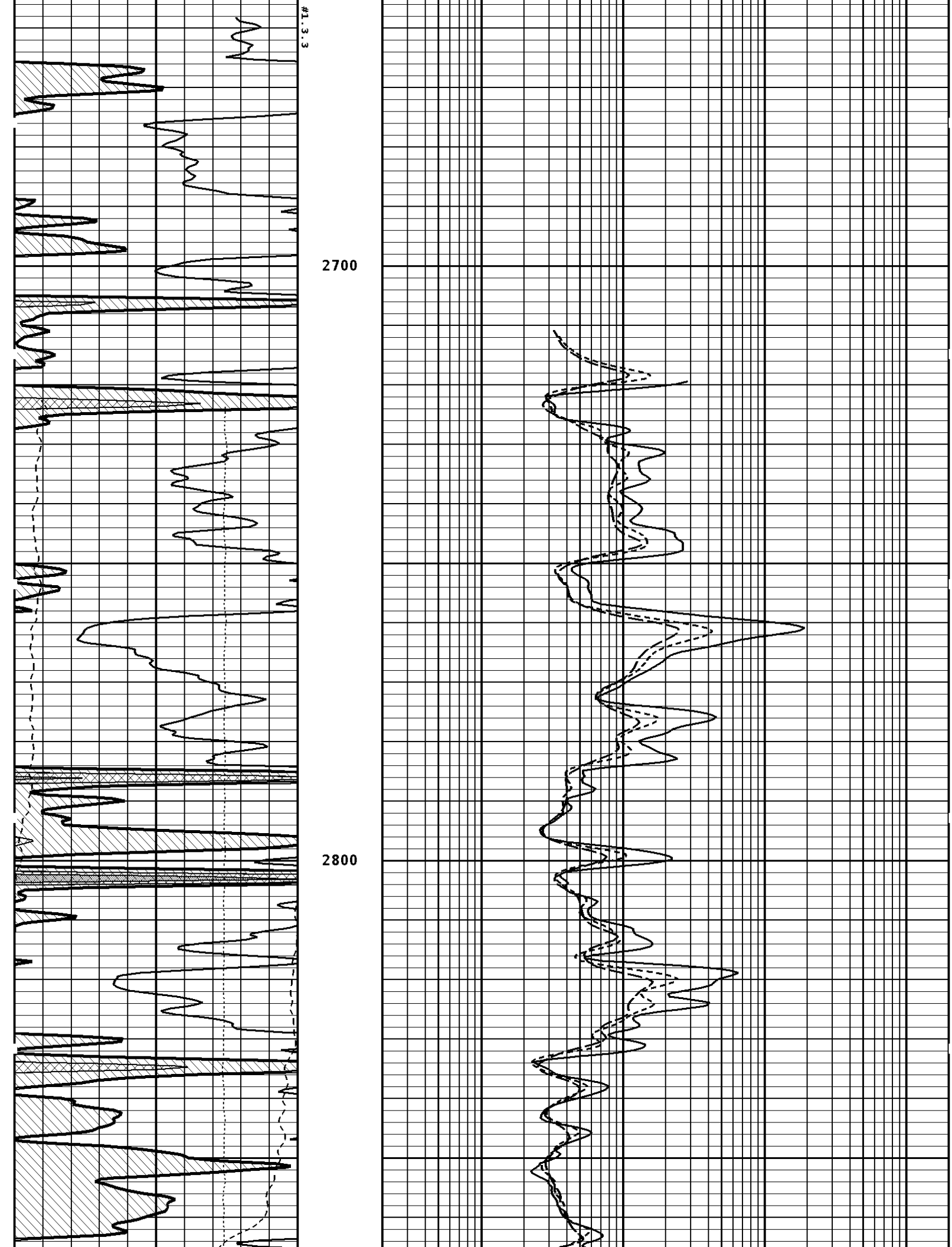
Drill Bit Size	7.875	in
BHT Depth	99999.000	ft
Borehole Temperature	73.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	0.200	ohm/m
Resistivity Of Mud Temperature	50.00	degF

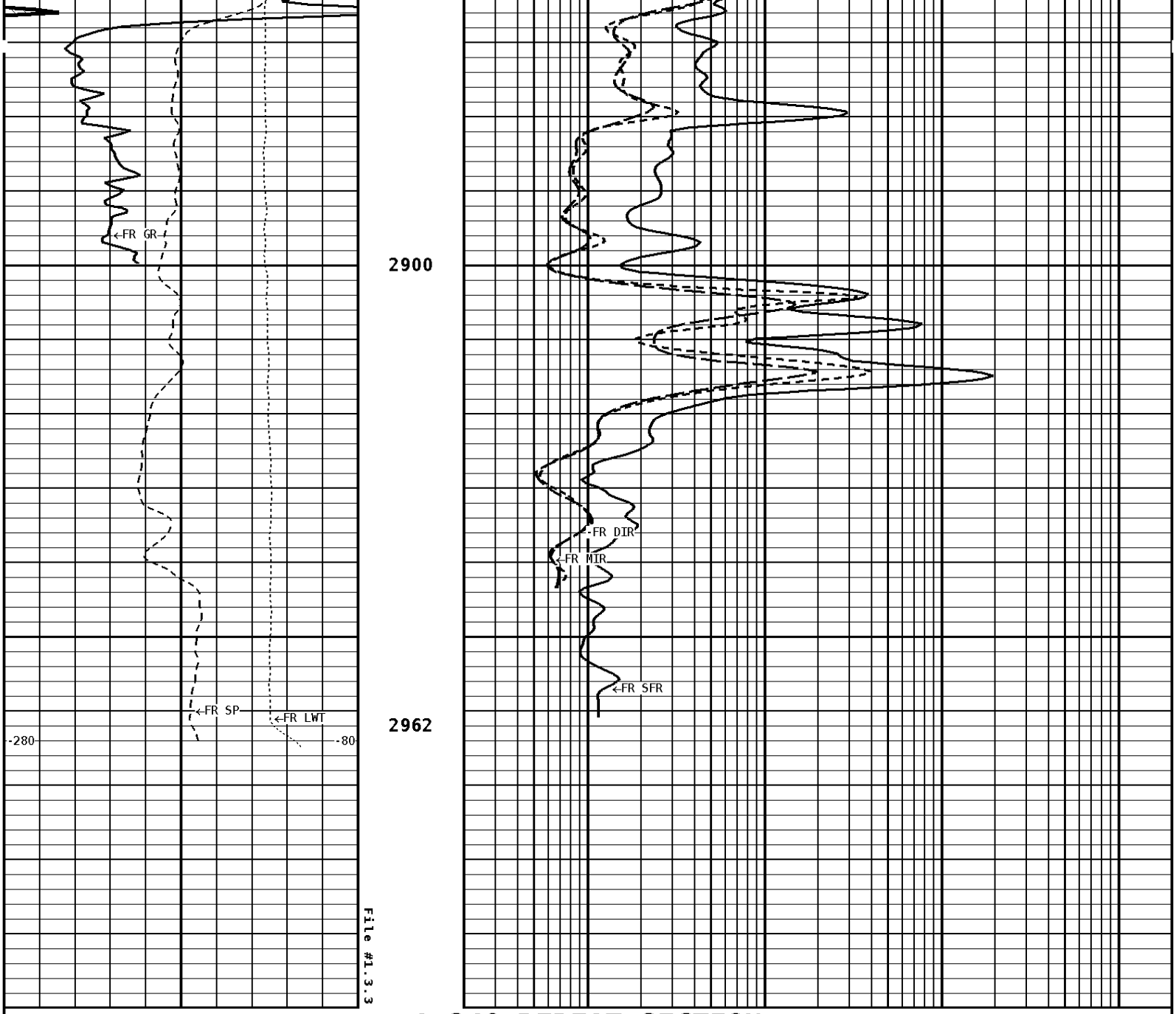
Well File: 123_AMER_ADE_1-6_MAY_20_QUINT **Scale:** 1:240
Segment: V1.D3.S3 RPT **Acquired:** 2011-05-20 03:09 3.2.0-9901
Reference: 0 **Processed:** 2011-05-20 03:09 3.2.0-9901

TENSION **LBS** 10000 — 0	**SHALLOW FOCUSED RESISTIVITY** **OHMM** 0.2 — 2000.0
SPONTANEOUS POTENTIAL **mV** → ←20	**MEDIUM INDUCTION** **OHMM** 0.2 — 2000.0
GAMMA RAY **API UNITS** 150 / 0 — 300 / 150	**DEEP INDUCTION** **OHMM** 0.2 — 2000.0

1:240 REPEAT SECTION




#1.3.3
2700
2800



1:240 REPEAT SECTION

GAMMA RAY
API UNITS
150 300
0 150

SPONTANEOUS POTENTIAL
mV
→ ←20

TENSION
LBS
10000 0

DEEP INDUCTION
OHMM
0.2 2000.0

MEDIUM INDUCTION
OHMM
0.2 2000.0

SHALLOW FOCUSED RESISTIVITY
OHMM
0.2 2000.0

*** Borehole Zone Factors ***

Zone 1	99999.0	to	0.0	Feet

Drill Bit Size	7.875	in
BHT Depth	99999.000	ft
Borehole Temperature	73.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	0.200	ohm/m
Resistivity Of Mud Temperature	50.00	degF

* Calibration Summary *

Shop Calibration
GRT-B

Performed : 00-xxx-0000 Time : 00:00
Sensor Suite : GR-GR5 ID : GRT-BA-15

	Measured Background	Measured Jig	Units	Calibrated Jig	Units
GR	0	200	CPS	200	GRAPI

Shop Calibration
PIT-CA

Performed : 28-APR-2011 Time : 13:11
Sensor Suite : P-IND-T ID : PIT-CA-069

Medium

	Measured R	Measured X	Calibrated R	Calibrated X	Units
Air	130173	131162	-0.0	-0.0	MMHOS
Zero	131069	131068	42.3	-8.2	MMHOS
Reference	249132	248386	5042.3	4991.8	MMHOS
Loop	128928	218725	3679.1	3784.6	MMHOS
Sonde Error			0.1	-8.5	MMHOS
Cond			5042.3	4991.8	MMHOS

Deep

	Measured R	Measured X	Calibrated R	Calibrated X	Units
Air	128071	132145	0.0	0.0	MMHOS
Zero	131066	131068	56.5	-22.2	MMHOS
Reference	234699	233671	2056.5	1977.8	MMHOS
Loop	127048	223014	1751.5	1791.0	MMHOS
Sonde Error			-2.6	0.1	MMHOS
Cond			2056.5	1977.8	MMHOS

Temperature

Measured Low	Measured High	Calibrated Low	Calibrated High	Units
16980.0	56920.0	70.0	350.0	DEGF

Performed : 28-Apr-2011 Time : 12:54
Sensor Suite : SFL ID : PIT-CA-069

Internal

	Measured Zero	Measured Reference	Calibrated Zero	Calibrated Reference	Units
Im	32786.2	49071.6	0.0	7028.0	uA
Ib	32768.9	49102.0	0.0	1750.0	mA
MOM1	32796.9	56691.2	0.0	175.0	mV
Equivalent SFL				43.97	OHMM

Performed : 28-Apr-2011 Time : 12:57
Sensor Suite : P-SP ID : PIT-CA-069

Internal

Measured Zero	Measured Reference	Calibrated Zero	Calibrated Reference	Units
32768.3	58943.9	0.0	1000.0	mV