Tucker WIRELINE SERVICES

COMPENSATED NEUTRON

PEL DENSITY LOG

Company RUNNING FOXES PETROLEUM
Well WUNDERLY 11-36D-1
Field DEVON
County BOURBON
State KANSAS
Country USA
API No. 15-011-23814

File No : 55540
Company : RUNNING FOXES PETROLEUM INC.
Well : WUNDERLY 11-36D-1
Field : DEVON
County : BOURBON
State : KANSAS
Country : USA
API No : 15-011-23814

Location :
1800' FSL & 2460' FWL
NE SE NE SW

LSD : **Sect :** 36 **Twp :** 24S **Rge :** 23E

Permanent Datum:	GL	**Elevations:**		**Services:**	
Drilling Measured From:	GL	**KB**	0.00 Ft	GRT	PIT
Log Measured From:	GL	**DF**	0.00 Ft	CNT	
Above Permanent Datum:	0.00 Ft	**GL**	868.00 Ft	LDT	

Date	Aug 15 2011			
Run Number	1			
Depth--Driller	562.0 Ft			
Depth--Logger	560.0 Ft			
First Reading	538.0 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 / NATIVE			
Density	0.0 LBS/GAL			
Fluid Loss	0.0 CC			
PH/Viscosity	0.0	0.0 SEC		
Sample Source	MEASURED			
RM@Measured Temp.	4.000 @ 80 F			
RMF@Measured Temp	3.400 @ 80 F			
RMC@Measured Temp.	4.600 @ 80 F			
Source RMF/RMC	CALCULATED	CALCULATED		
RM@BHT	4.000 @ 80 F			
Time Circulation Stopped				
Max Recorded Temp.	80 F			
Equipment/Base	TRK123	TULSA		
Recorded By	T. MONTGOMERY			
Witnessed By	A. GREENE			

Bitsize Intervals

Size (In)	Bottom (Ft)
6.750	572.00

Casing Strings

Size (In)	Weight (Lbs)	Bottom (Ft)
8.625	24.00	20.00

Run Number	1		
Date	Aug 15 2011		
Date/Time On Bottom	Aug 15 2011 12:30		
Depth to Fluid	0.0	Ft	
Salinity	0.000	PPM	
RMF@BHT	3.400 @ 80	F	
RMC@BHT	4.600 @ 80	F	

Run Number 1

Comments

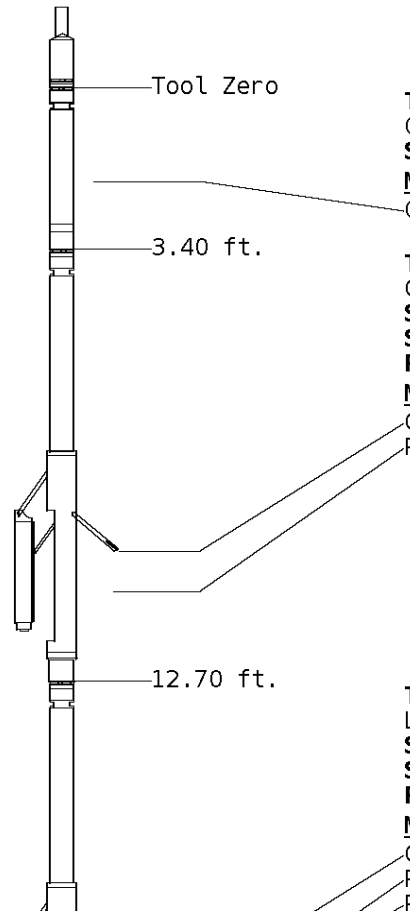
ALL PRESENTATIONS AS PER CUSTOMER REQUEST.
GRT, CNT, LDT, AND PIT RUN IN COMBINATION.
CALIPERS ORIENTED ON X-Y AXIS.
2.71 G/CC USED TO CALCULATED POROSITY.
ANNULAR HOLE VOLUME CALCULATED UISING 4.50" PRODUCTION CASING.

GRT: GRP.
CNT: PHIN, CLCNIN.
LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN.
PIT: ILD, ILM, SPU, SFLAEC.

OPERATORS:
T. HOBBS
J. THOMAS

Tool String Schematic

Total Tool Length - 43.91 **ft.**
Maximum Outside diameter - 4.80 **in.**
Net Weight in Air - 743.00 **lbs.**



Tool: GRT-B **Length:** 3.40 **ft.** **O.D.** 3.60 **in.**
Gamma Ray Controller
Sonde ID :GRT-BC-41

Measure Point	Tool Offset	Stack Offset	Bottom Offset
GRP	2.00	2.00	41.91

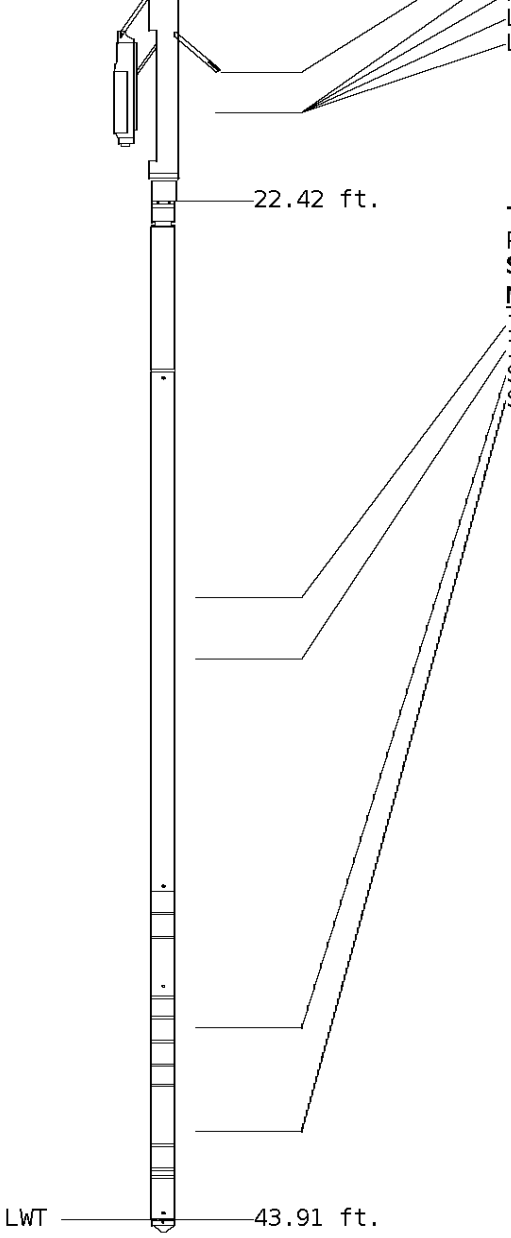
Tool: CNT-AA **Length:** 9.30 **ft.** **O.D.** 4.36 **in.**
Compensated Neutron A Pad on NDT-A
Sonde ID :NDT-AC-027
Source ID :N-1046
Pad ID :CNP-AA-024

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLCN	6.00	9.40	34.51
PHIN	6.80	10.20	33.71

Tool: LDT-DF **Length:** 9.72 **ft.** **O.D.** 4.80 **in.**
Litho Density D Pad on NDT-F
Sonde ID :PDT-GA-464
Source ID :2991GW
Pad ID :LDP-DA-066

Measure Point	Tool Offset	Stack Offset	Bottom Offset
CLLD	6.42	19.12	24.79
PEL	7.42	20.12	23.79
PES	7.82	20.52	23.39

LDEN	7.62	20.32	23.59
LCOR	7.62	20.32	23.59



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	31.34	12.56
ILM	10.10	32.52	11.39
SFLU	17.49	39.91	4.00
SP	20.60	43.02	0.88

Well File: run_wun_11-36d-1_aug_25_stk **Scale:** 1:240
Segment: V1.D1.S3 MN **Acquired:** 2011-08/25 10:55 3.2.0-9963
Reference: 0 **Processed:** 2011-08/25 10:55 3.2.0-9963

TENSION LBS
10000 — 0

BIT SIZE INCHES (IN)
4 — 14

DENSITY (X) CALIPER INCHES (IN)
14 — 24
4 — 14

Volume Quartz

PE CROSS-SECTION BARNS/ELECTRON
0 — 10

DENSITY CORRECTION G/CC
-0.25 — 0.25

NEUTRON (Y) CALIPER INCHES (IN)
14 — 24
4 — 14

Volume Calcite

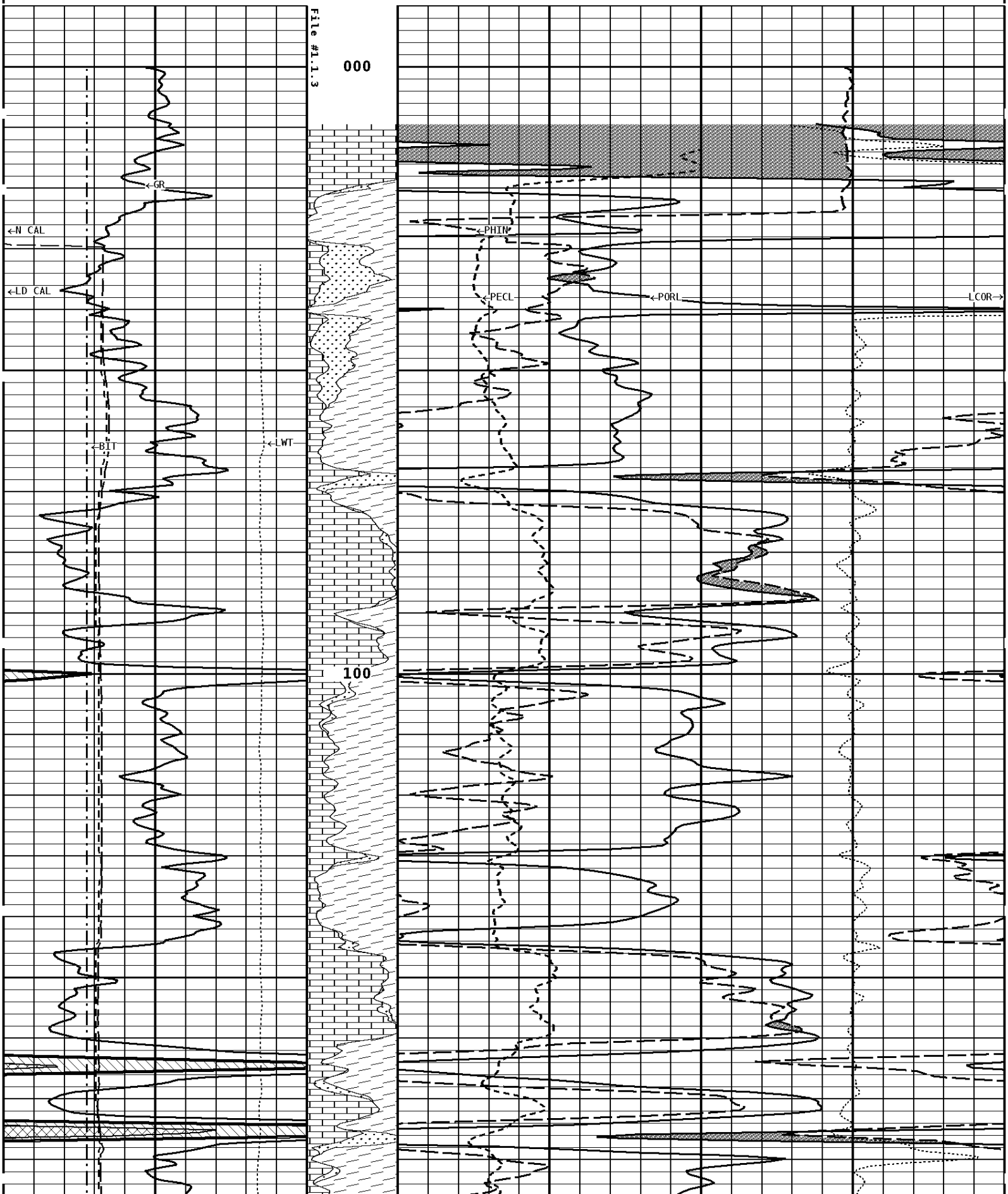
NEUTRON POROSITY PERCENT (LIMESTONE MATRIX)
70 — 30
30 — -10
-10 — -50

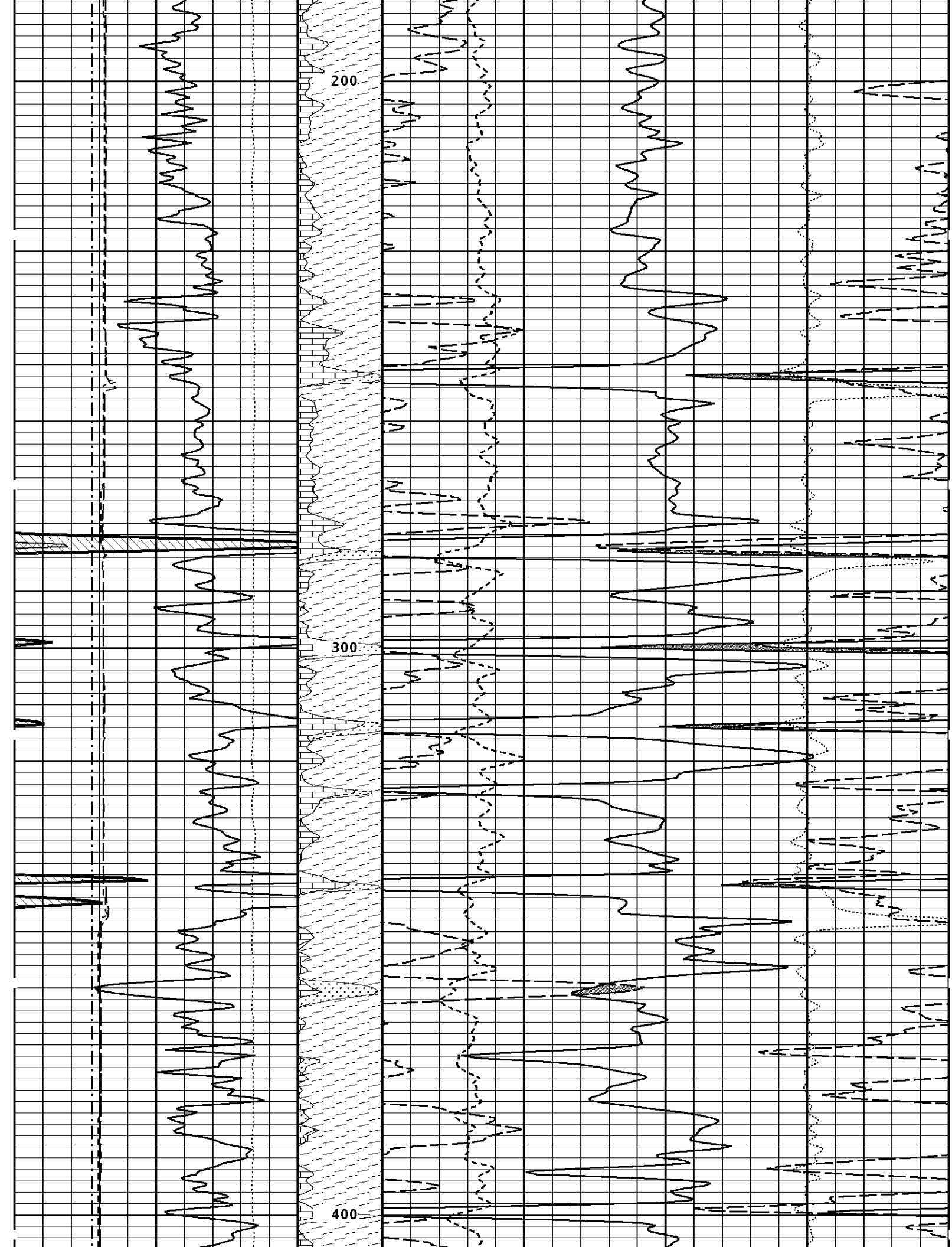
GAMMA RAY API UNITS
200 — 400
0 — 200

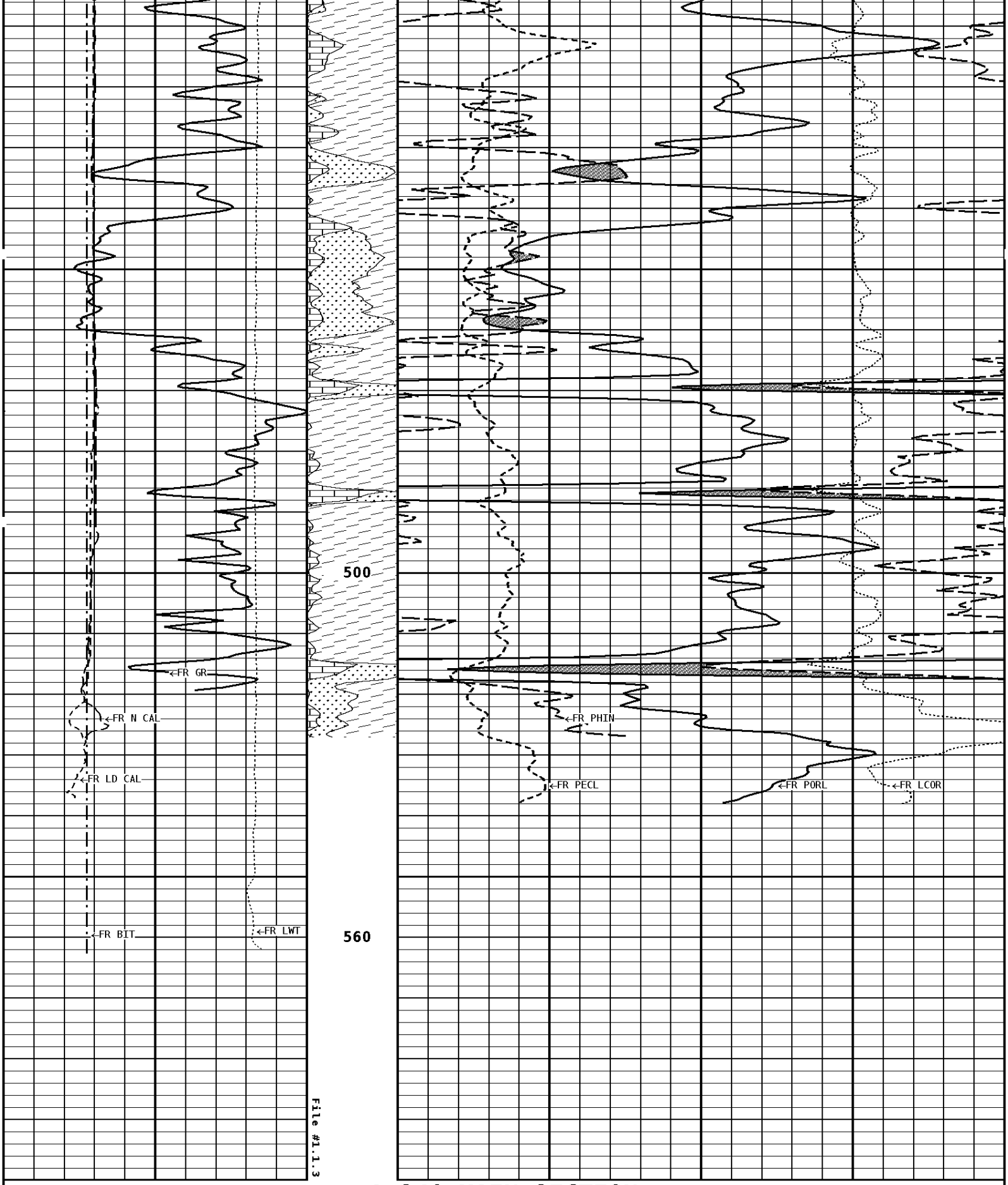
Volume Dolo/Shale

DENSITY POROSITY PERCENT (2.71 g/cc)
70 — 30
30 — -10
-10 — -50

1:240 MAIN SECTION

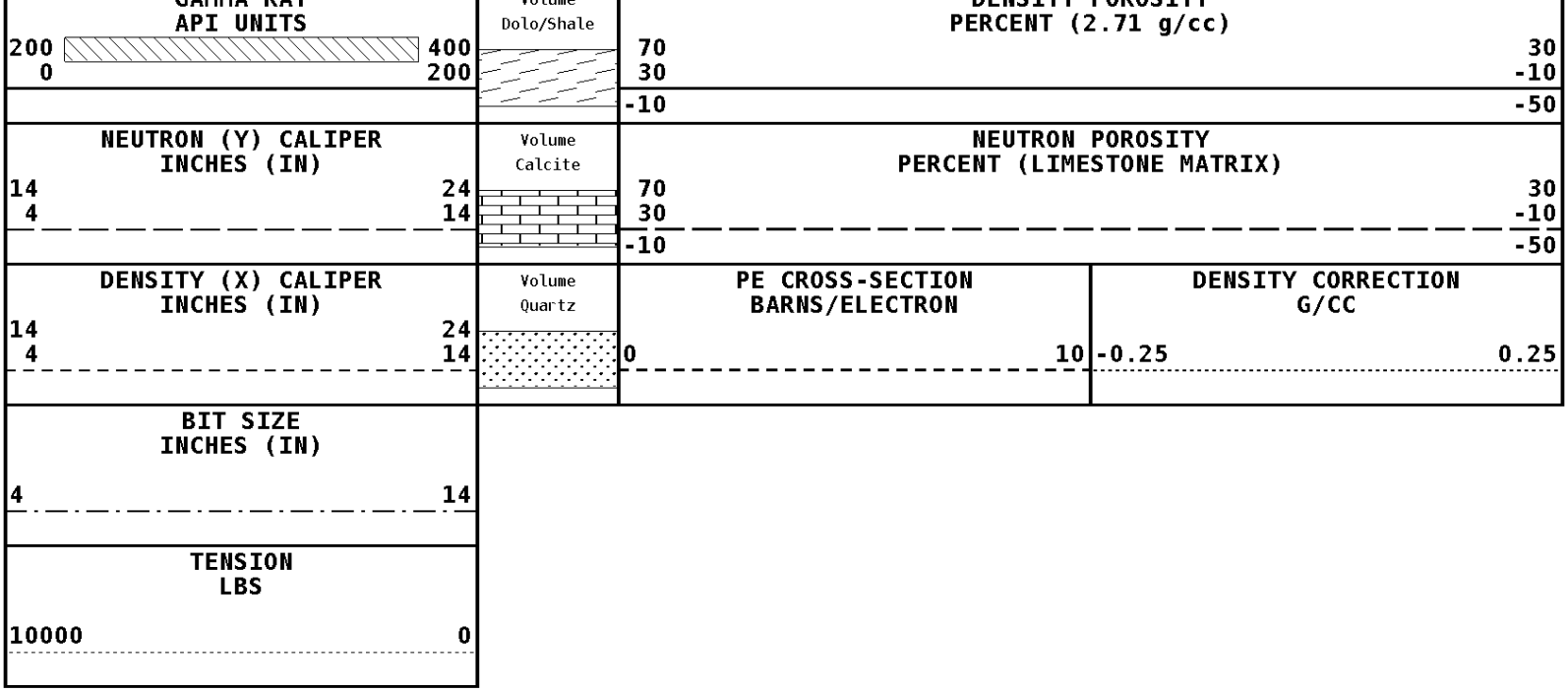



200
300
400



1:240 MAIN SECTION

GAMMA RAY	Volume	DENSITY POROSITY

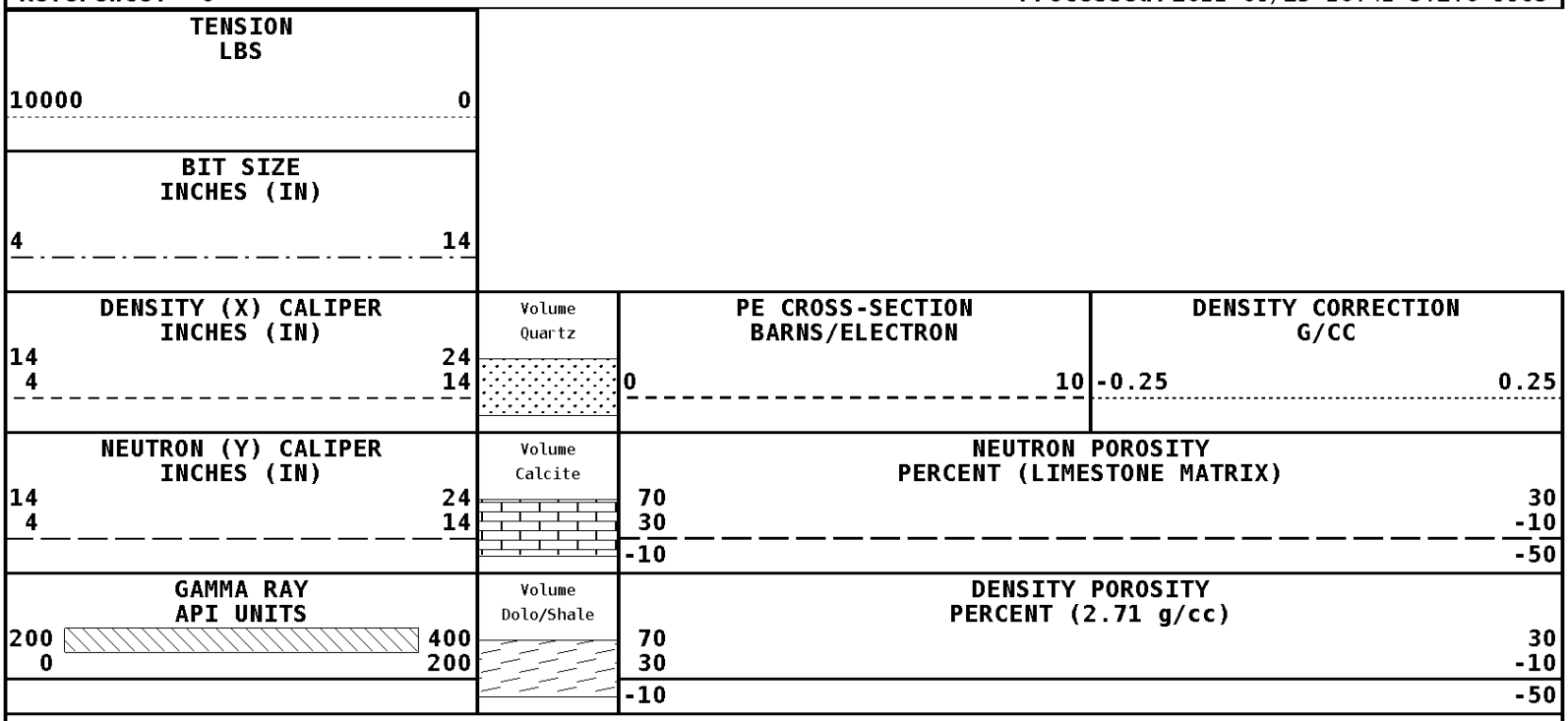


*** Borehole Zone Factors ***

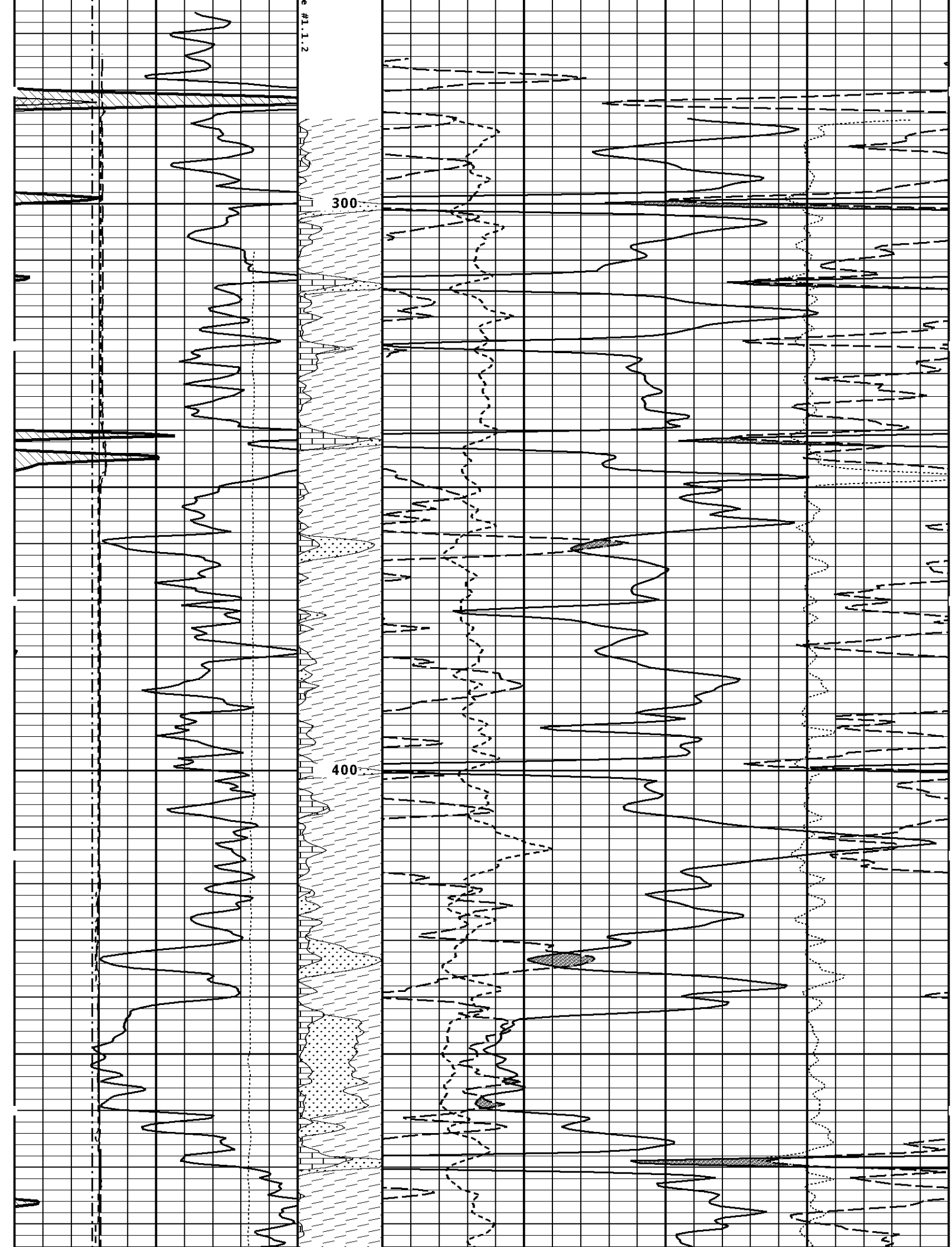
Zone 1 99999.0 to 0.0 Feet

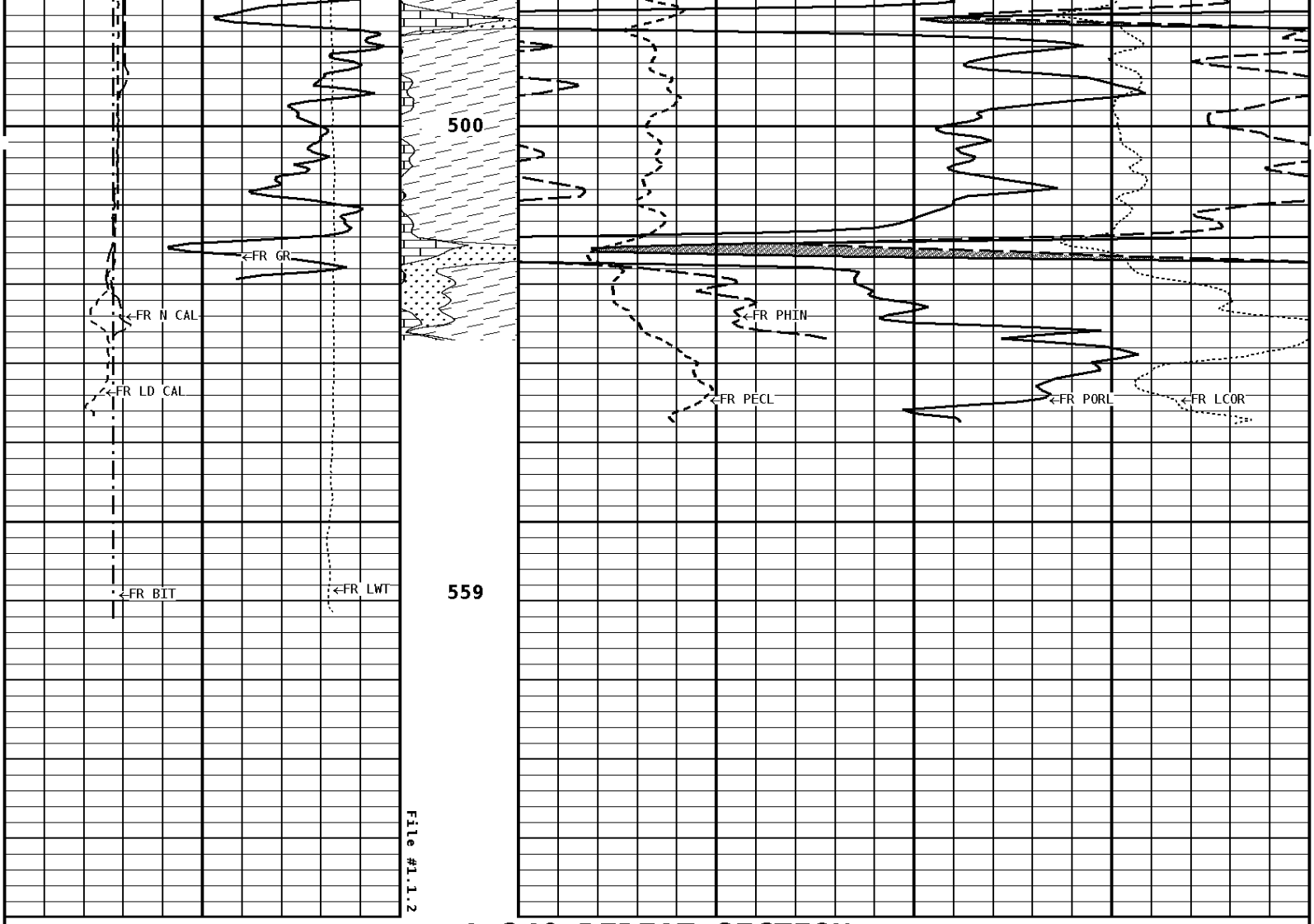
Matrix Density	2.71	g/cc
Fluid Density	1.00	g/cc
Formation Matrix	Limestone	
Drill Bit Size	6.750	in
Casing Diameter	4.500	in
Casing Correction (PHI N)	Disable	

Well File: run_wun_11-36d-1_aug_25_stk **Scale:** 1:240
Segment: V1.D1.S2 RPT **Acquired:** 2011-08/25 10:41 3.2.0-9963
Reference: 0 **Processed:** 2011-08/25 10:41 3.2.0-9963



1:240 REPEAT SECTION


e #1.1.2
300
400



1:240 REPEAT SECTION

GAMMA RAY API UNITS	Volume Dolo/Shale	DENSITY POROSITY PERCENT (2.71 g/cc)
200 400		70 30
0 200		30 -10
		-10 -50

NEUTRON (Y) CALIPER INCHES (IN)	Volume Calcite	NEUTRON POROSITY PERCENT (LIMESTONE MATRIX)
14 24		70 30
4 14		30 -10
		-10 -50

DENSITY (X) CALIPER INCHES (IN)	Volume Quartz	PE CROSS-SECTION BARNS/ELECTRON	DENSITY CORRECTION G/CC
14 24			
4 14		0 10	-0.25 0.25

BIT SIZE INCHES (IN)
4 14

TENSION LBS
10000 0

* Borehole Zone Factors *

Borehole Zone Factors

Zone 1	99999.0 to 0.0 Feet	
Matrix Density	2.71	g/cc
Fluid Density	1.00	g/cc
Formation Matrix	Limestone	
Drill Bit Size	6.750	in
Casing Diameter	4.500	in
Casing Correction (PHI N)	Disable	

Well File: run_wun_11-36d-1_aug_25_stk
Segment: V1.D1.S3 MN
Reference: 0

Scale: 1:240
Acquired: 2011-08/25 10:55 3.2.0-9963
Processed: 2011-08/25 10:55 3.2.0-9963

TENSION LBS
10000 — 0

BIT SIZE INCHES (IN)
4 — 14

DENSITY (X) CALIPER INCHES (IN)
14 — 24
4 — 14

NEUTRON (Y) CALIPER INCHES (IN)
14 — 24
4 — 14

GAMMA RAY API UNITS
200 — 400
0 — 200

-BHV AHV-
CU.FT

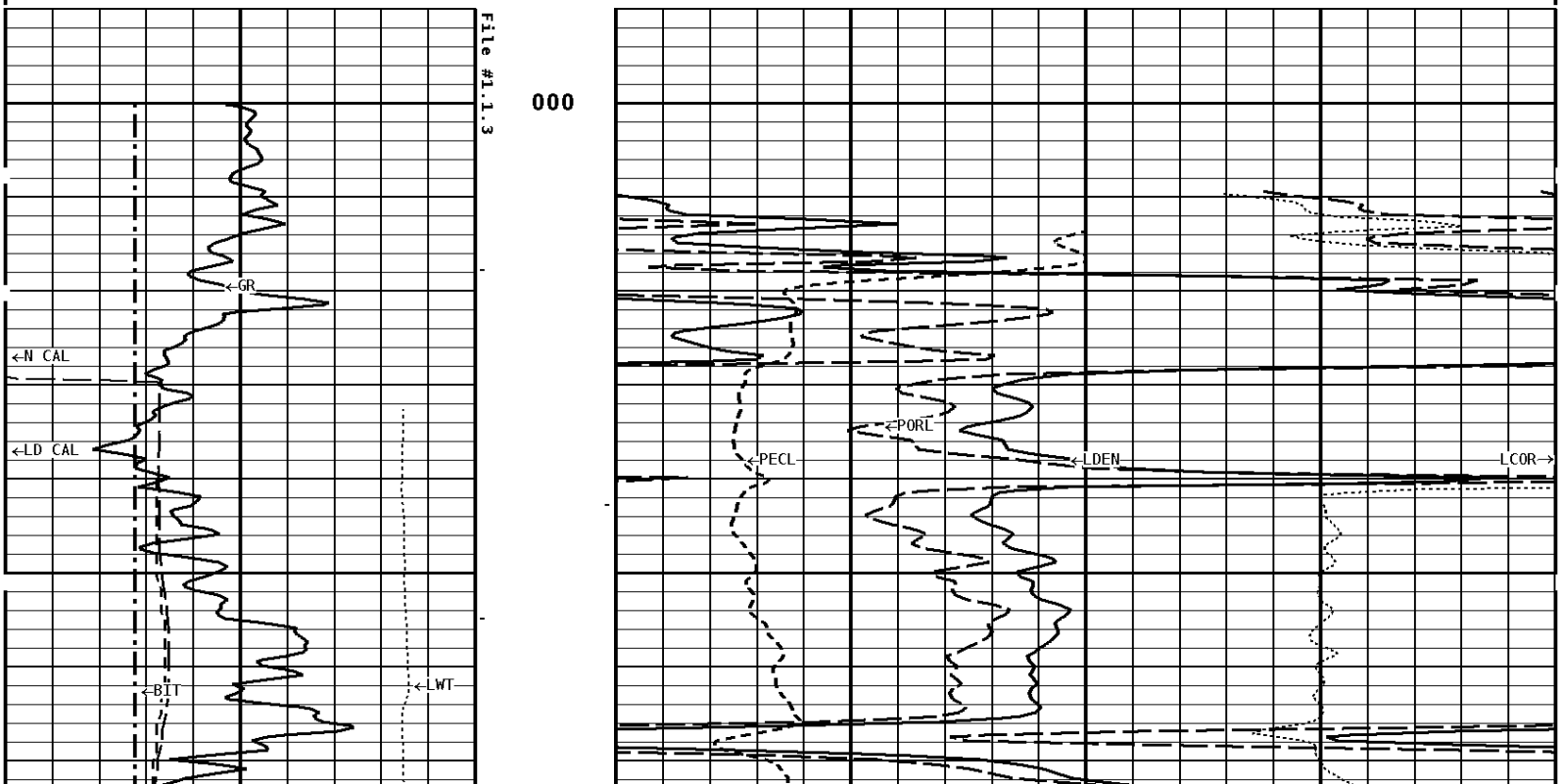
PE CROSS-SECTION BARNS/ELECTRON
0 — 10

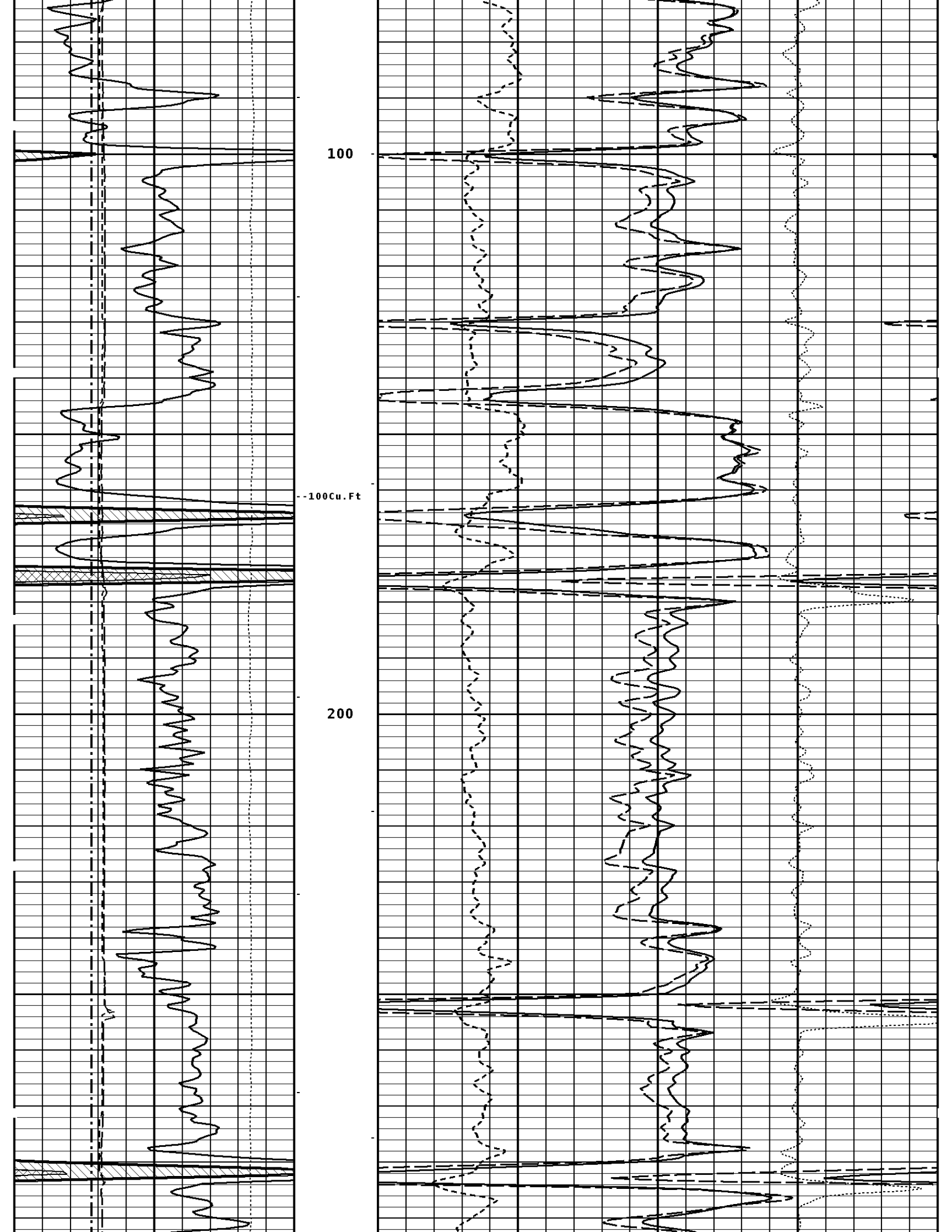
DENSITY CORRECTION G/CC
-0.25 — 0.25

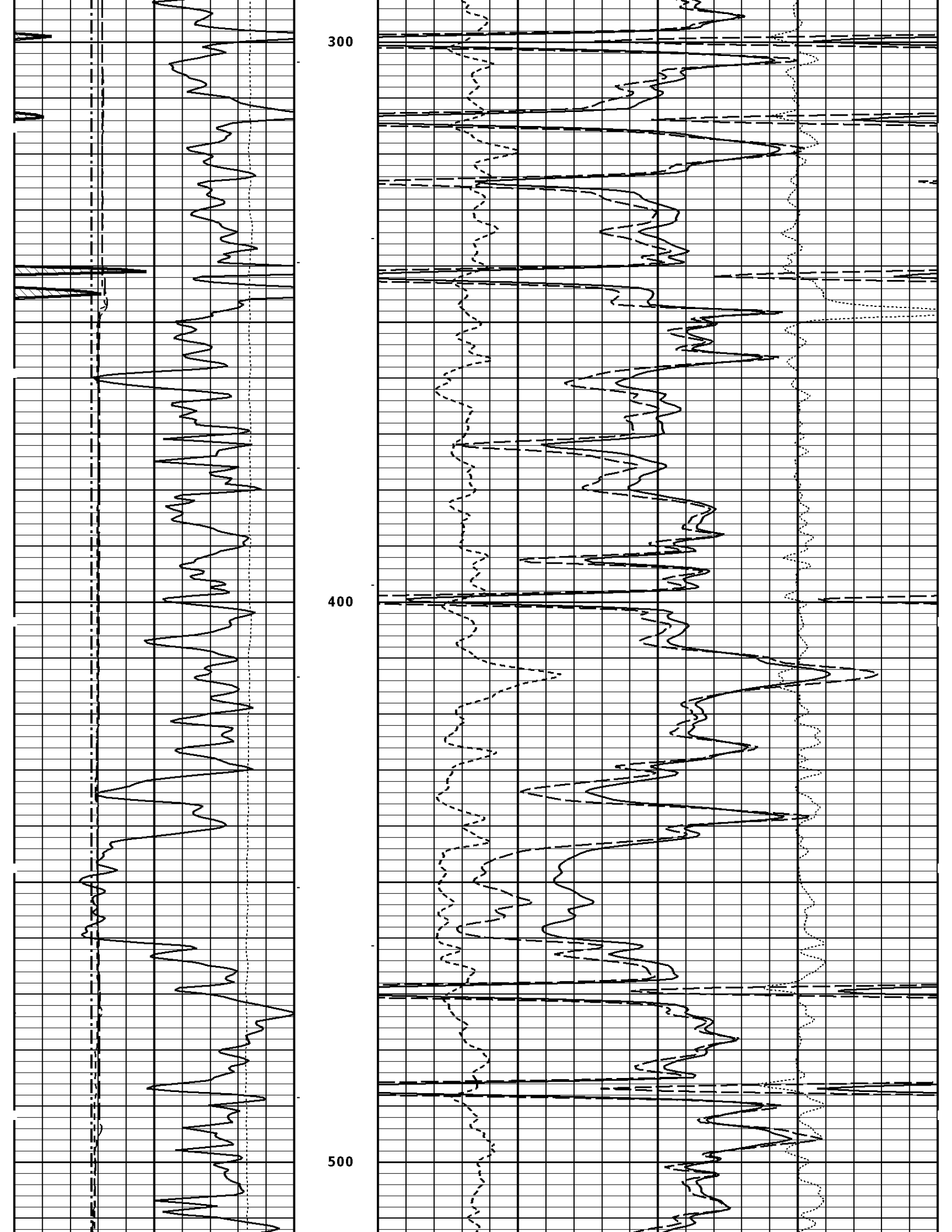
DENSITY POROSITY PERCENT (2.71 g/cc)
70 — 30
30 — -10
-10 — -50

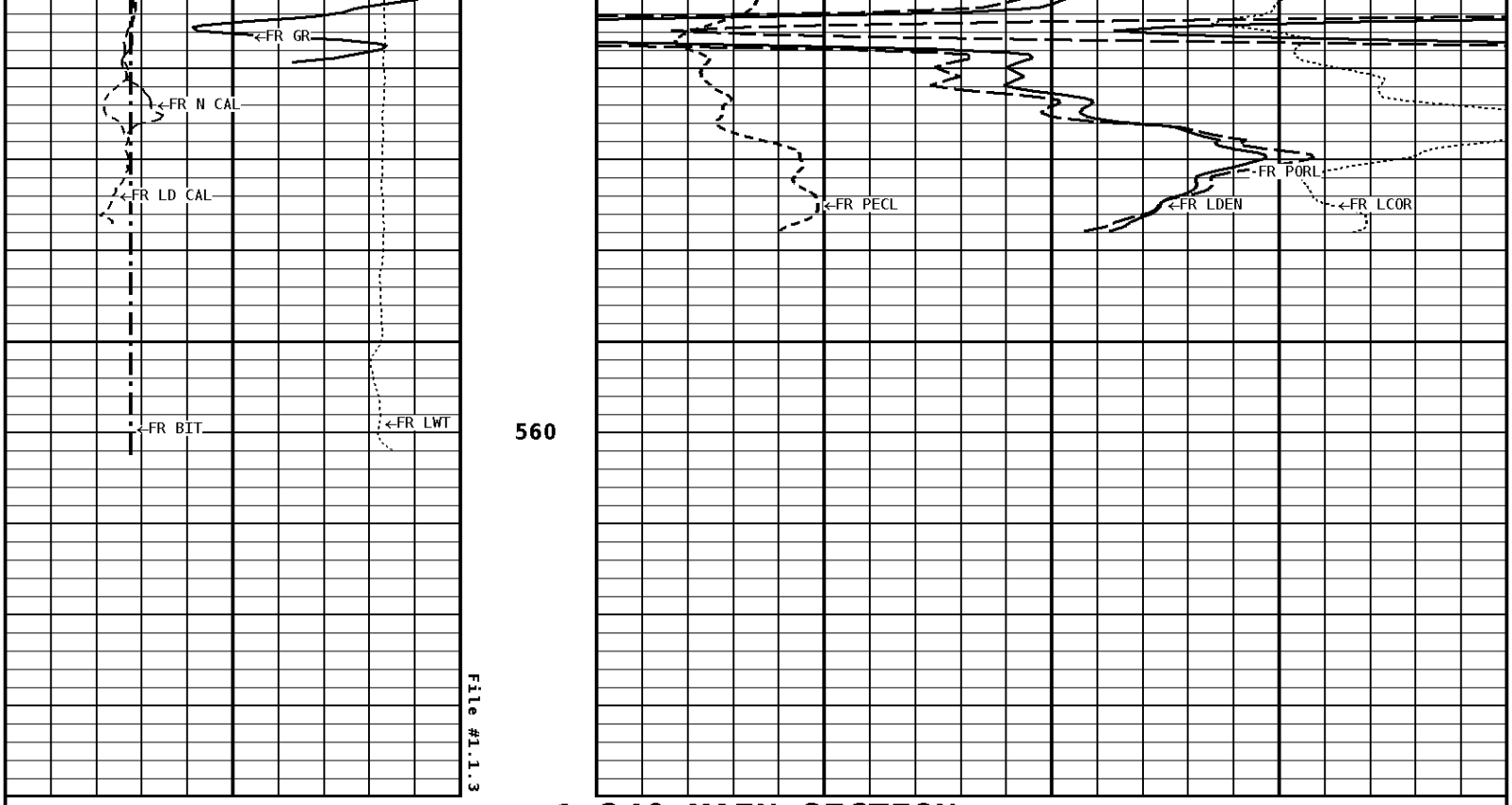
COMPENSATED BULK DENSITY G/CC
3.0 — 4.0
2.0 — 3.0
1.0 — 2.0

1:240 MAIN SECTION
BULK DENSITY




100
--100Cu.Ft
200


300
400
500



1:240 MAIN SECTION
BULK DENSITY

GAMMA RAY API UNITS	-BHV AHV- CU.FT	COMPENSATED BULK DENSITY G/CC
200 400		3.0 4.0
0 200		2.0 3.0
		1.0 2.0

NEUTRON (Y) CALIPER INCHES (IN)	DENSITY POROSITY PERCENT (2.71 g/cc)
14 24	70 30
4 14	30 -10
	-10 -50

DENSITY (X) CALIPER INCHES (IN)	PE CROSS-SECTION BARNS/ELECTRON	DENSITY CORRECTION G/CC
14 24		
4 14	0 10	-0.25 0.25

BIT SIZE INCHES (IN)
4 14

TENSION LBS
10000 0

*** Borehole Zone Factors ***

Zone 1 99999.0 to 0.0 Feet

Matrix Density	2.71	g/cc
Fluid Density	1.00	g/cc
Formation Matrix	Limestone	
Drill Bit Size	6.750	in
Casing Diameter	4.500	in
Casing Correction (PHI N)	Disable	

* Calibration Summary *

Shop Calibration
GRT-B

Performed : 29-Apr-2010 Time : 11:02
Sensor Suite : GR-GR5 ID : GRT-BC-41

	Measured Background	Measured Jig	Units	Calibrated Jig	Units
GR	46	346	CPS	175	GRAPI

Shop Calibration
CNT-AA

Performed : 30-APR-2011 Time : 18:55
Sensor Suite : CALI-BCN ID : NDT-AC-027

	Jig - Measured Ring#1	Jig - Measured Ring#2	Jig - Calibrated Ring#1	Jig - Calibrated Ring#2	Units
CL # 1	7.3	14.1	6.0	12.0	IN.

Performed : 15-Jul-2011 Time : 11:29
Sensor Suite : BHC NEUT ID : CNP-AA-024
Source ID : N-1046

	Tank Measured	Tank Calibrated	Verification Jig	Units
N/F	3.8791	3.6893	3.6842	
Porosity	23.5	20.5	20.4	%

Shop Calibration
LDT-DF

Performed : 26-APR-2011 Time : 13:10
Sensor Suite : CALI-LTH ID : PDT-GA-464

	Jig - Measured Ring#1	Jig - Measured Ring#2	Jig - Calibrated Ring#1	Jig - Calibrated Ring#2	Units
CL # 1	6.9	10.3	6.0	12.0	IN.

Performed : 15-Jul-2011 Time : 10:34
Sensor Suite : BHCPELNG ID : LDP-DA-066
Source ID : 2991GW

Short Space

	BKGD	Al	Mg	Al+Fe	Units
LSW1	70	1133	1834	740	CPS
LSW2	73	1332	2113	975	CPS
LSW3	270	3079	4974	2624	CPS
LSW4	329	2745	3958	2401	CPS
LSW5	31	57	65	54	CPS
LSW6	89	94	92	96	CPS
LSW7	57	63	62	63	CPS
LSW8	2	4	6	4	CPS
QS	0.221	0.202	0.192	0.212	
PES			2.778	5.967	
SSDN		2.600	1.680		G/CC

Long Space

	BKGD	Al	Mg	Al+Fe	Units
LLW1	103	1228	5073	754	CPS
LLW2	116	2197	8637	1609	CPS
LLW3	435	4122	15628	3575	CPS
LLW4	561	1988	6291	1797	CPS
LLW5	59	73	130	69	CPS
LLW6	181	174	167	178	CPS
LLW7	114	112	107	111	CPS
LLW8	3	7	18	6	CPS
QL	0.224	0.218	0.216	0.230	
PEL			2.697	5.458	
LSDN		2.600	1.680		G/CC