

Tucker
ENERGY SERVICES

**BOREHOLE VOLUME
CALIPER LOG**

Company DAYSTAR PETROLEUM LLC.
Well MCGINNIS-FEE #20
Field FANCY
County GREENWOOD
State KANSAS
Country USA
API No. 15-073-24185

File No : TUL-58207
Company : DAYSTAR PETROLEUM LLC.
Well : MCGINNIS-FEE #20
Field : FANCY
County : GREENWOOD
State : KANSAS
Country : USA
API No : 15-073-24185

Location :
1980' FSL & 4290' FEL
E2 NW SW

LSD : Sect : 25 Twp : 26S Rge : 12E

Permanent Datum: GL Elevations: KB 0.00 Ft CNT PIT
Drilling Measured From: GL DF 0.00 LDT
Log Measured From: GL 1059.00 Ft MLT
Above Permanent Datum: 0.00 Ft

Date 2013-03-30

Run Number	1		
Depth--Driller	2196.0	Ft	
Depth--Logger	2194.0	Ft	
First Reading	2161.0	Ft	
Last Reading	233.0	Ft	
Casing--Driller	225.0	Ft	
Casing--Logger	233.0	Ft	
Bit Size	9.500	In	
Casing Size	10.750	In	
Hole Fluid Type	WBM		
Density	9.1	LBS/GAL	
Fluid Loss	8.2	CC	
PH/Viscosity	9.0	37.0 SEC	
Sample Source	MEASURED		
RMF@Measured Temp.	3.500 @ 70	F	
RMF@Measured Temp	2.980 @ 70	F	
RMC@Measured Temp.	4.030 @ 70	F	
Source RMF/RMC	CALCULATED/CALCULATED		
RM@BHT	2.720 @ 91	F	
Time Circulation Stopped			
Max Recorded Temp.	91	F	
Equipment/Base	TRK 123	TULSA	
Recorded By	S. DAVIS		
Witnessed By	S. EVENSON		

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)
9.500	2194.00	10.750	30.00	233.00

Run Number	1	
Date	2013-03-30	
Date/Time On Bottom	2013-03-30 15:15	
Depth to Fluid	0.0 Ft	
Salinity	0.000 PPM	
RMF@BHT	2.310 @ 91 F	
RMC@BHT	3.130 @ 91 F	

Run Number 1

Comments

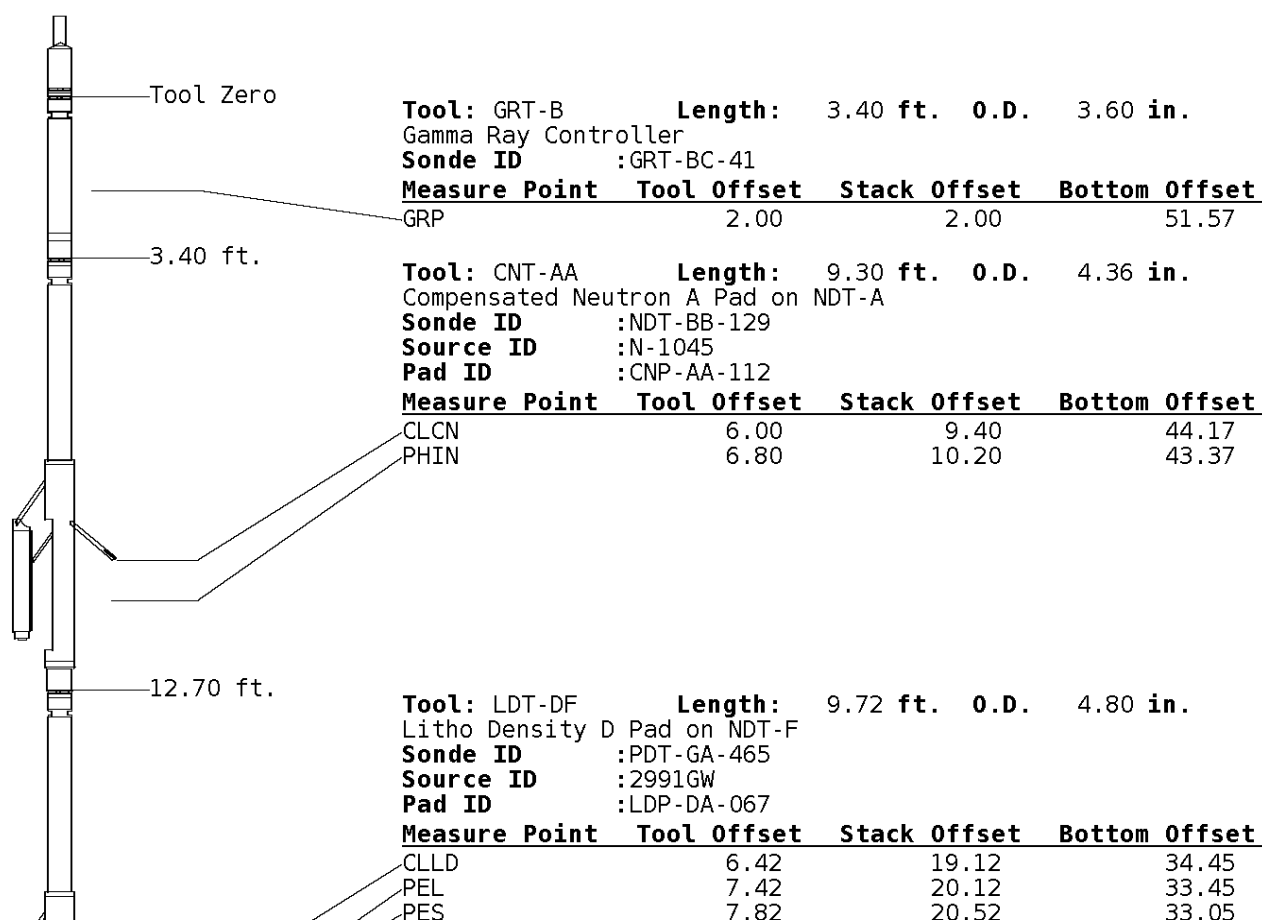
ALL PRESENTATIONS AS PER CUSTOMER REQUEST.
 GRT, CNT, LDT, MLT, AND PIT RUN IN COMBINATION.
 CALIPERS ORIENTED ON X-Y AXIS.
 2.71 G/CC USED TO CALCULATED POROSITY.
 ANNULAR HOLE VOLUME CALCULATED USING 7.0" PRODUCTION CASING.
 PHIN IS CALIPER CORRECTED

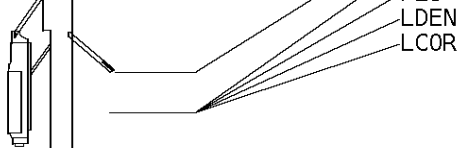
GRT: GRP.
 CNT: PHIN, CLCNIN.
 LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN.
 MLT: NOR_RF, INV_RF, MSCLPIN.
 PIT: ILD, ILM, SPU, SFLAEC, CIRD.

OPERATORS:
 B. COLWILL
 J. THOMAS

Tool String Schematic

Total Tool Length - 53.57 ft.
Maximum Outside diameter - 6.00 in.
Net Weight in Air - 943.00 lbs.



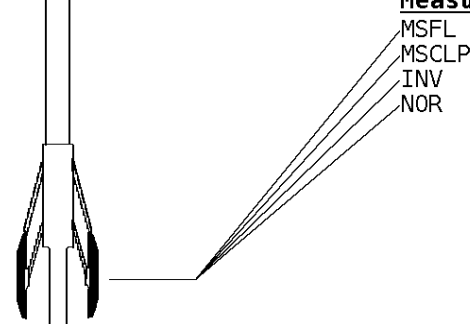


LDEN	7.62	20.32	33.25
LCOR	7.62	20.32	33.25

22.42 ft.

Tool: MST-DA **Length:** 9.66 ft. **O.D.** 6.00 in.
 Micro Spherically Focused (IC)
Sonde ID :MST-DA-36

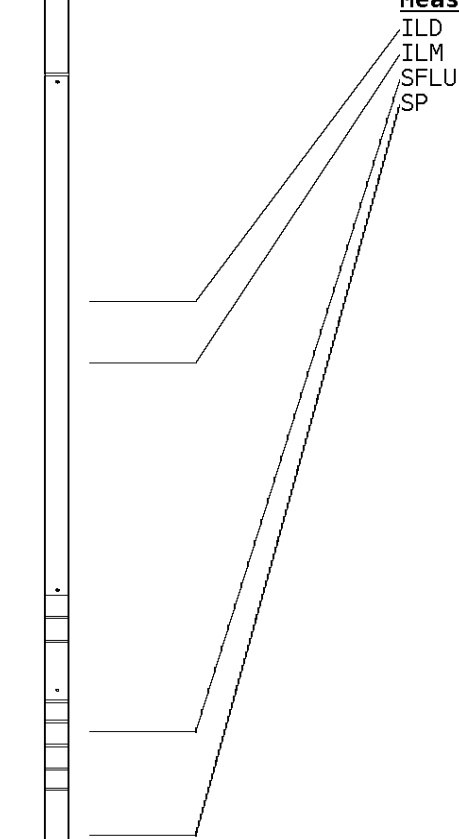
Measure Point	Tool Offset	Stack Offset	Bottom Offset
MSFL	7.60	30.02	23.55
MSCLP	7.60	30.02	23.55
INV	7.60	30.02	23.55
NOR	7.60	30.02	23.55



32.08 ft.

Tool: PIT-CA **Length:** 21.49 ft. **O.D.** 3.62 in.
 Phased Dual Induction w/ RM & D
Sonde ID :PIT-AB-005

Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	41.00	12.56
ILM	10.10	42.18	11.39
SFLU	17.49	49.57	4.00
SP	20.60	52.68	0.88



LWT 53.57 ft.

Well File: day-pet-mcg-20-mstk-mar-30

Scale: 1:240

Segment: V1.D1.S5 MN

Acquired: 2013-03/30 15:30 3.2.0-11401

Reference: 0

Processed: 2013-03/30 16:23 3.2.0-11401

**BIT SIZE
INCHES (IN)**

6 16

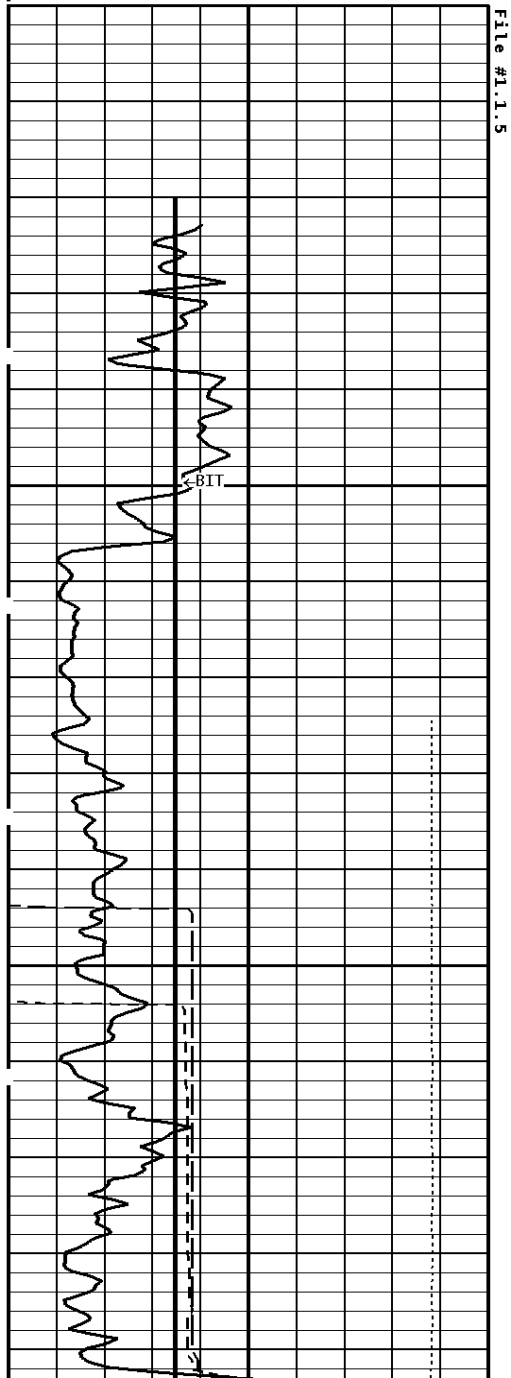
**Y CALIPER
INCHES (IN)**

16 26

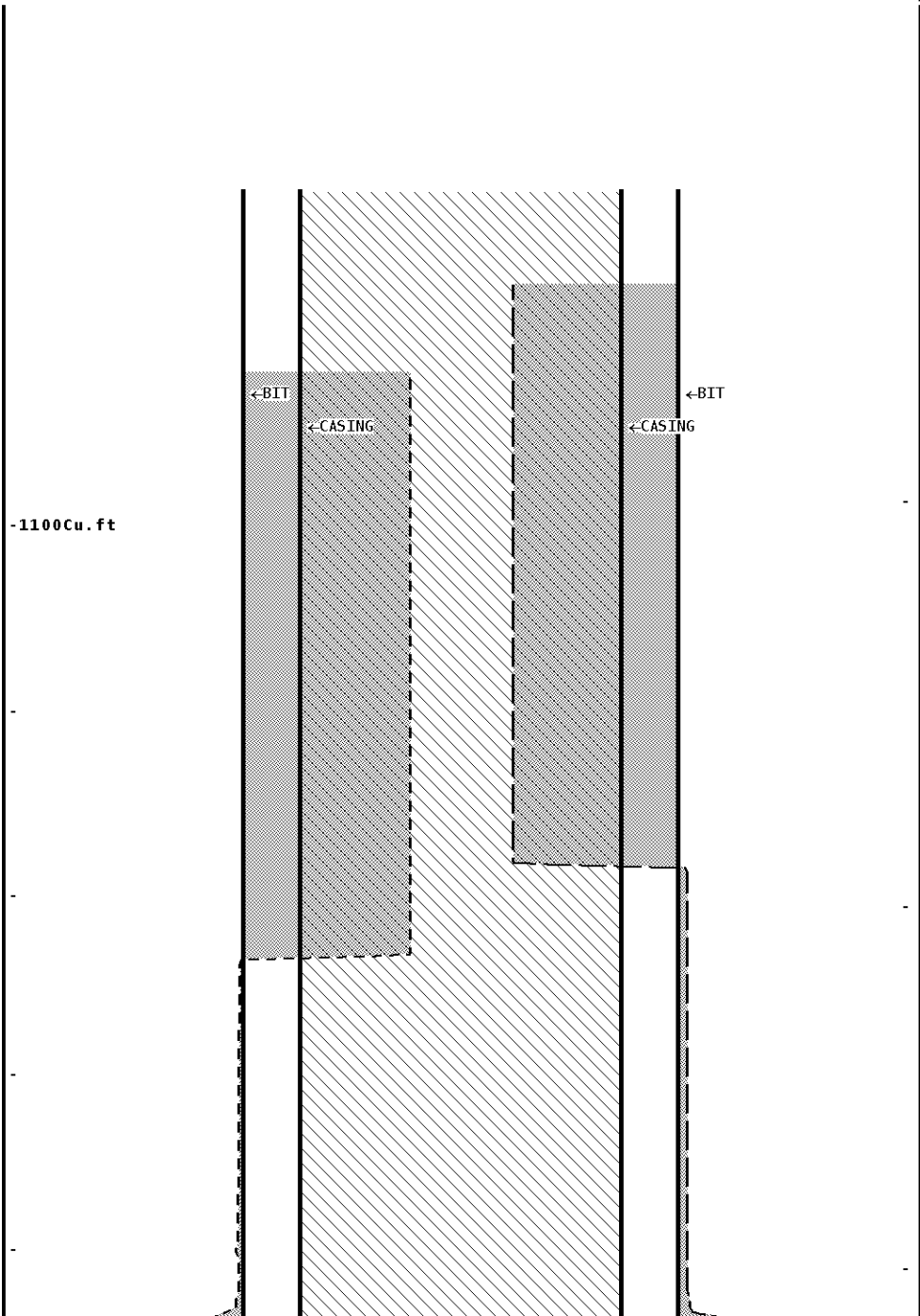
16 6	26 16
X CALIPER INCHES (IN)	
16 6	26 16
TENSION LBS	
10000	0
GAMMA RAY API UNITS	
150 0	300 150

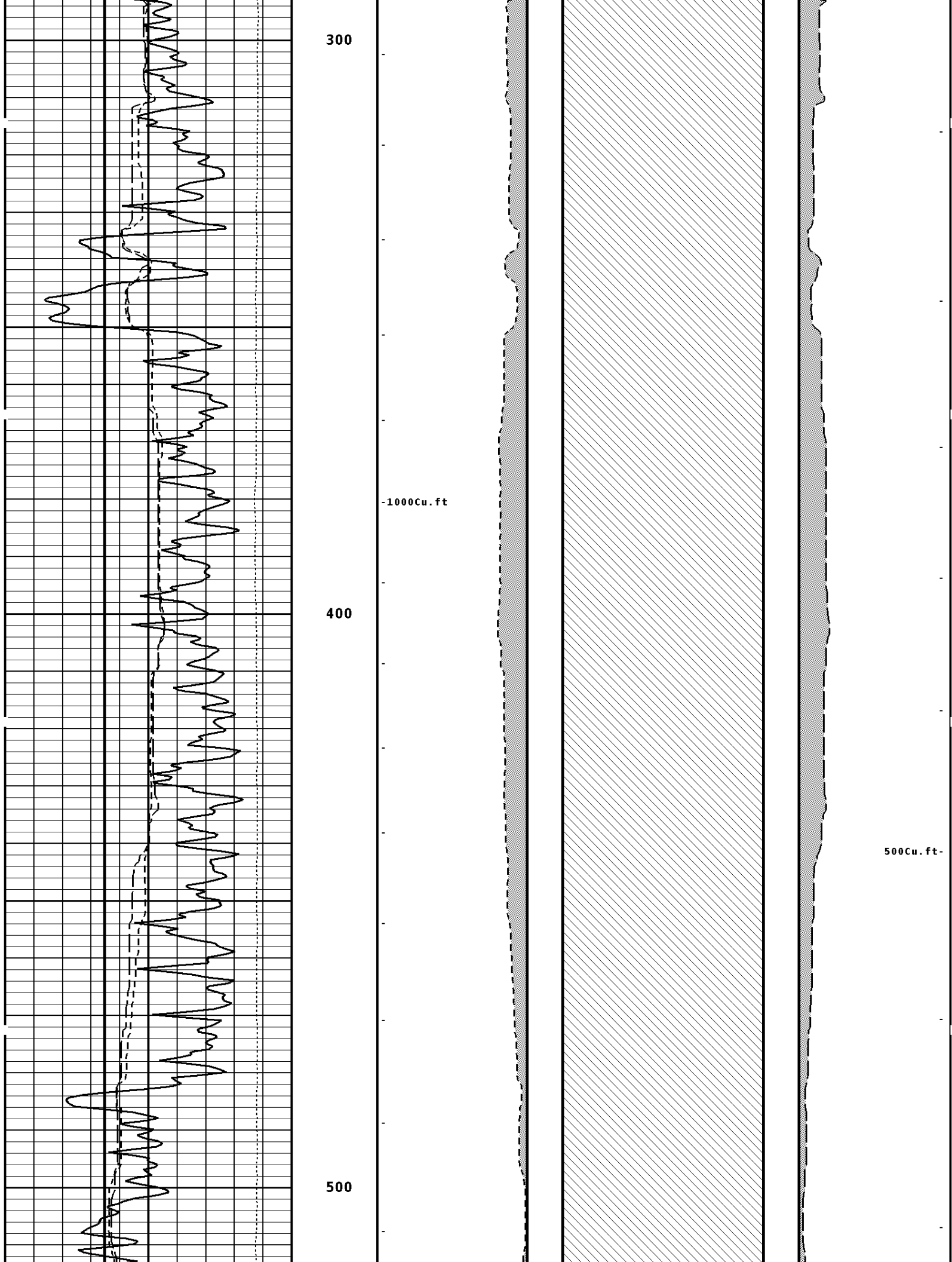
BOREHOLE VOLUME CU.FT	ANNULAR HOLE VOLUME CU.FT.
--------------------------	-------------------------------

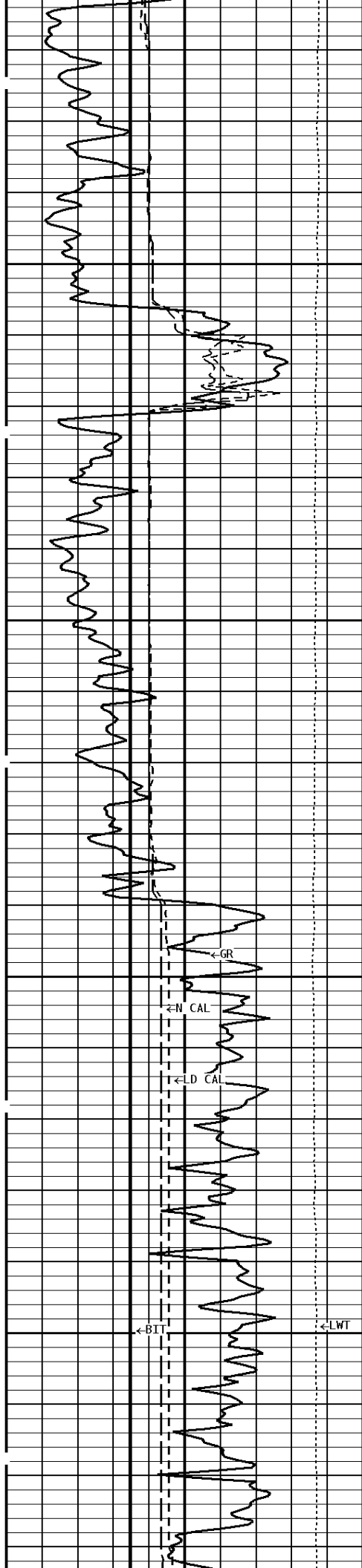
1:240 MAIN SECTION



200





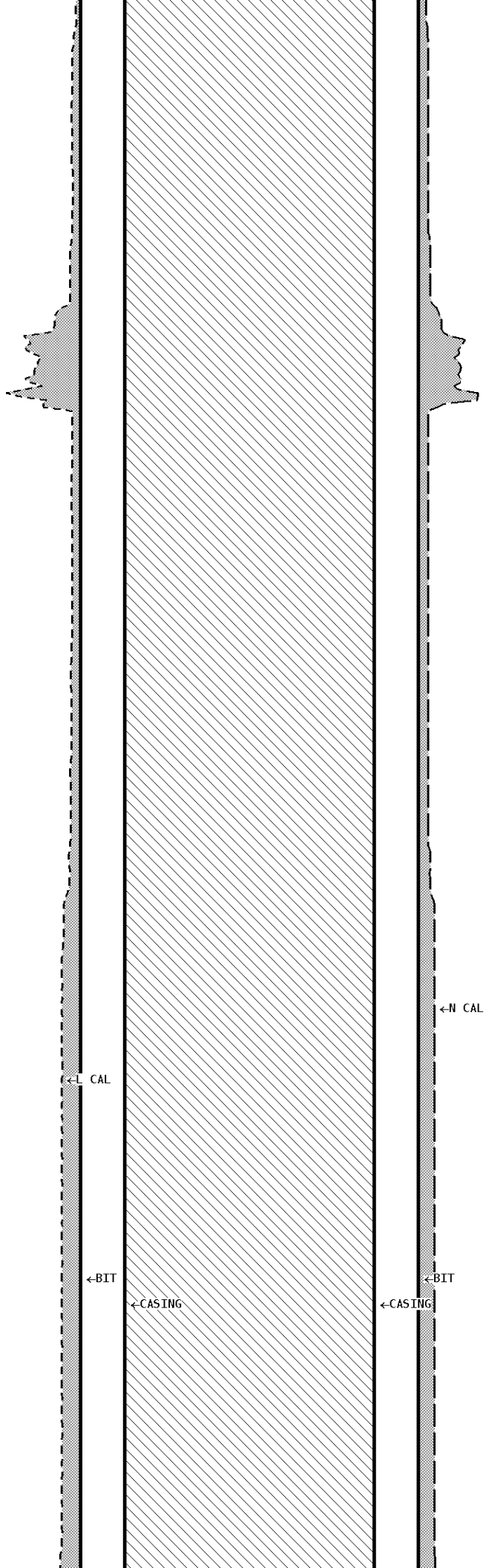


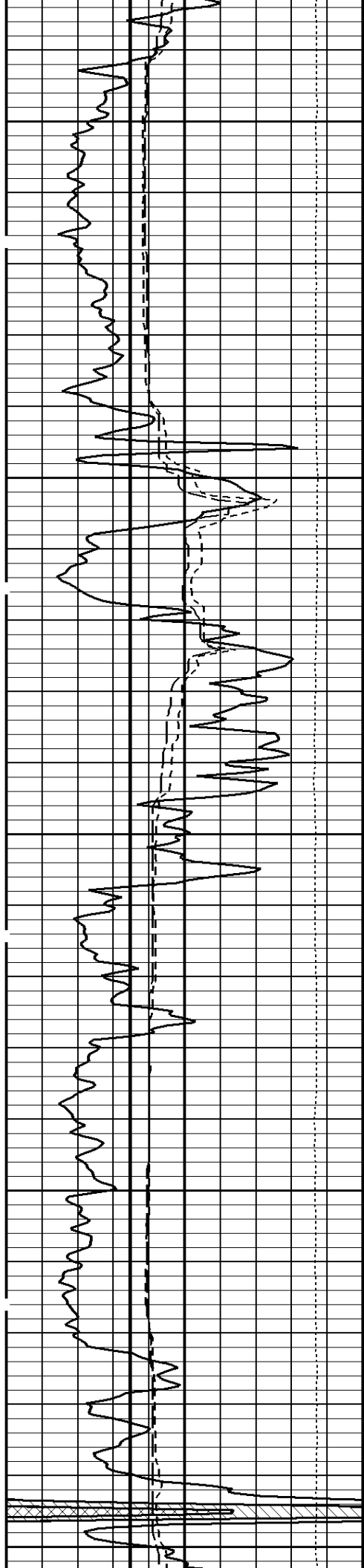
600

700

-900Cu.ft

-800Cu.ft

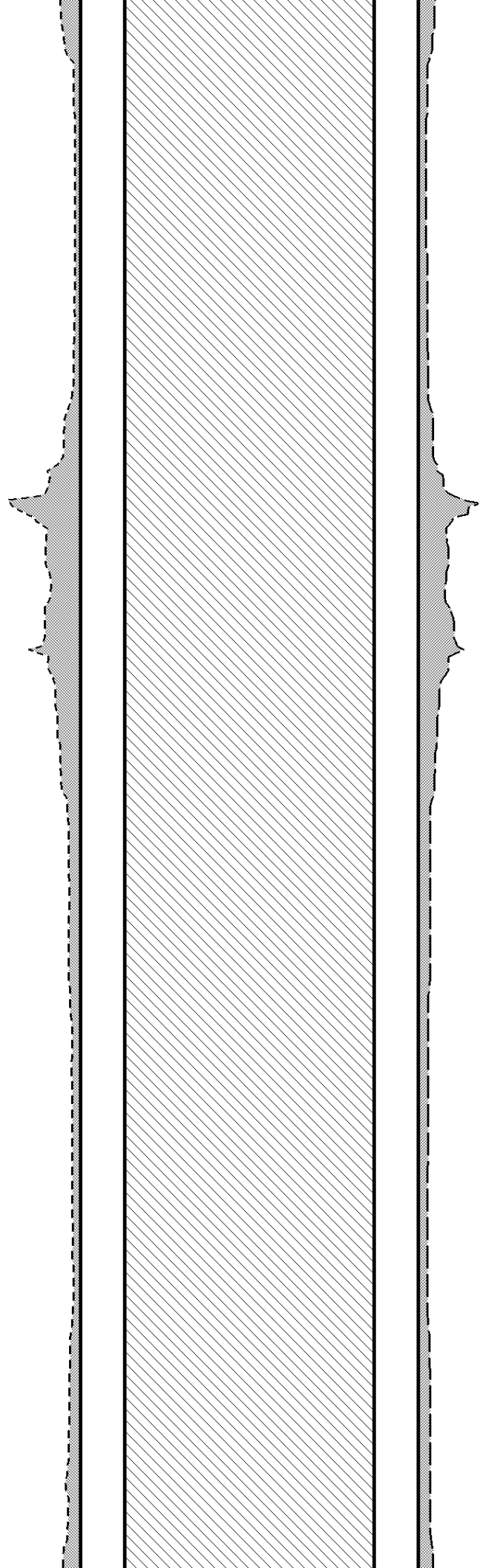




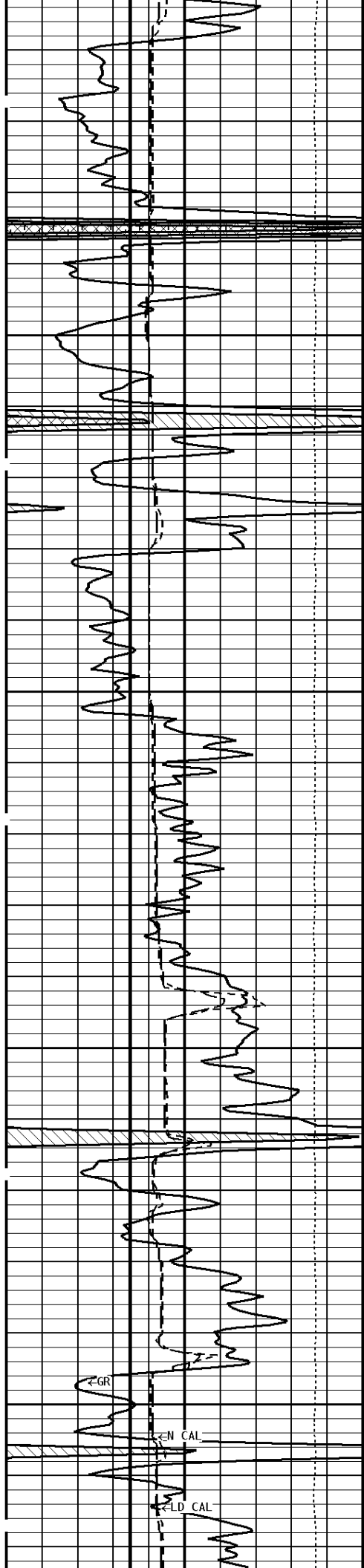
800

900

-700Cu.ft



400Cu.ft-



1000

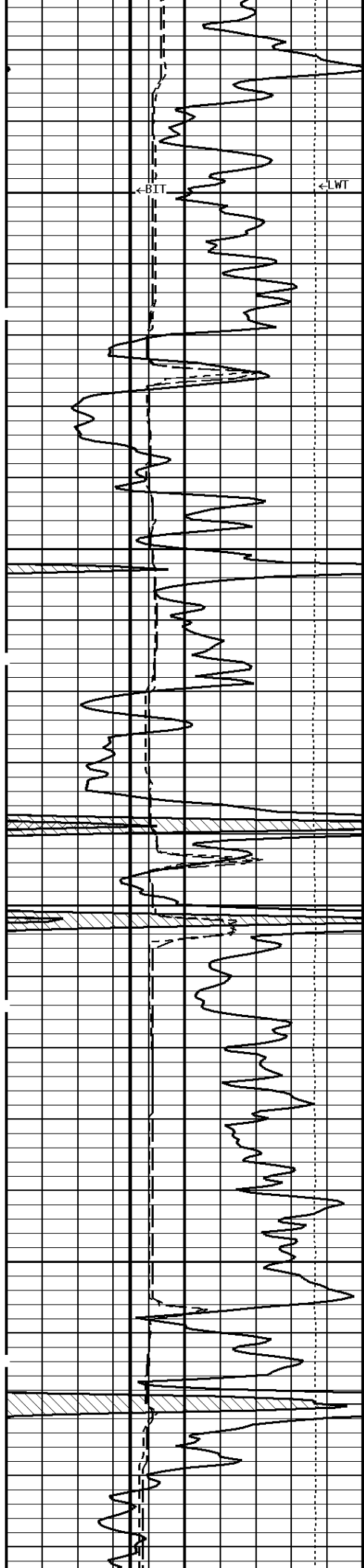
-600Cu.ft

1100

300Cu.ft-

L CAL

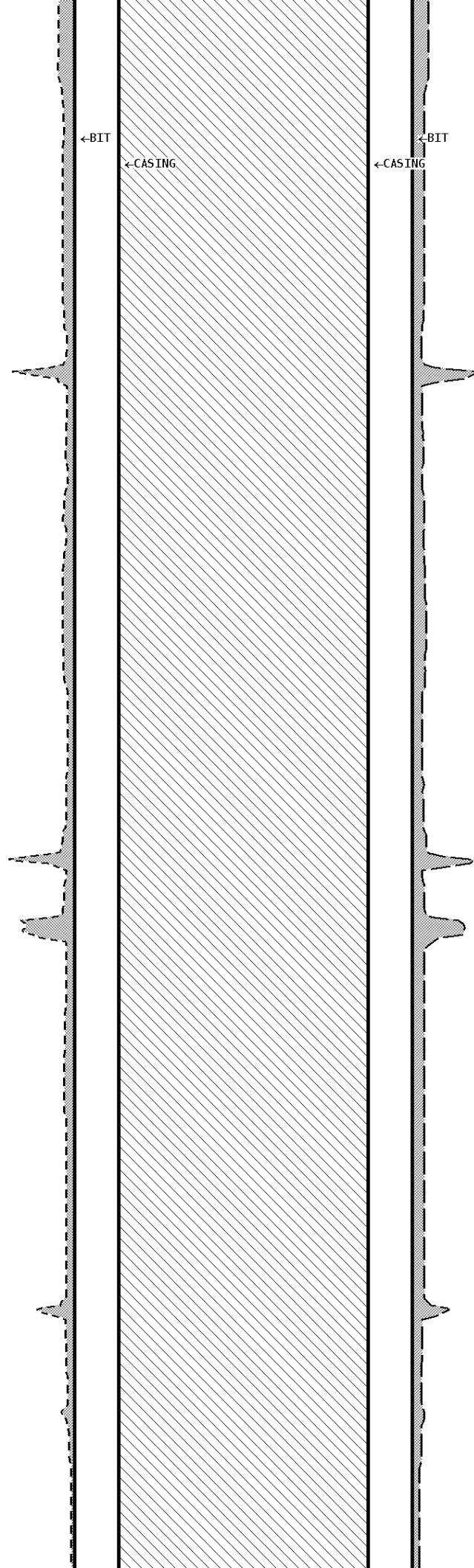
N CAL

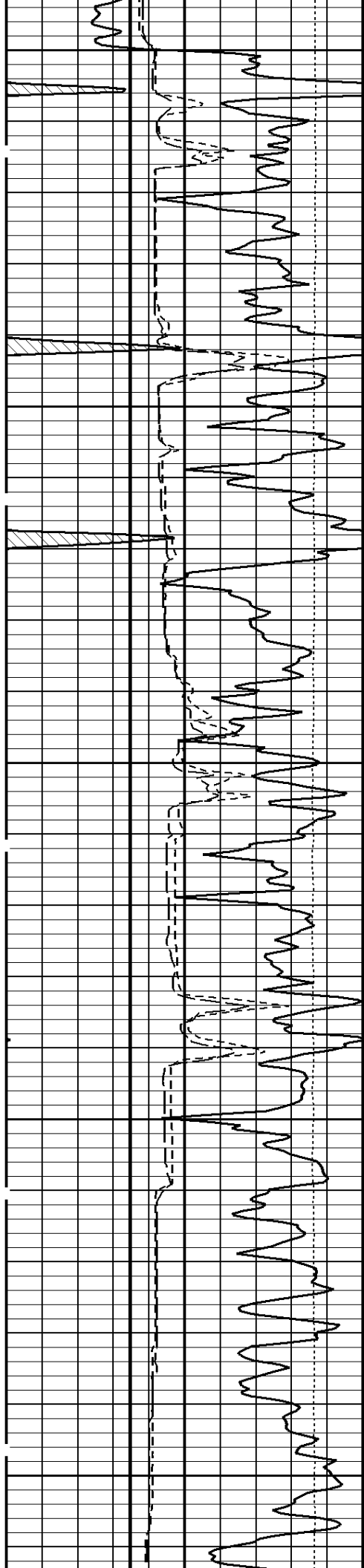


1200

1300

- 500 Cu. ft





1400

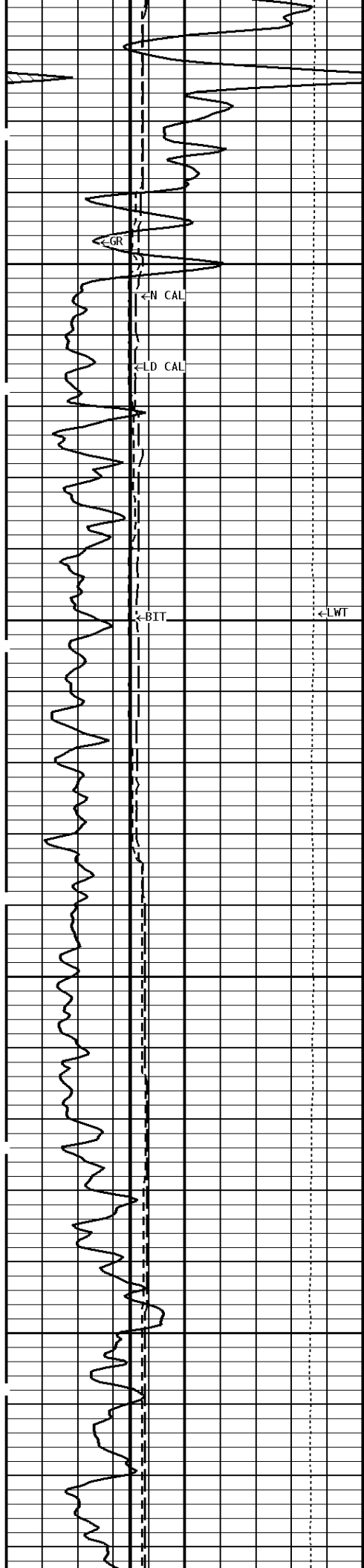
-400Cu.ft

1500

-300Cu.ft

1600

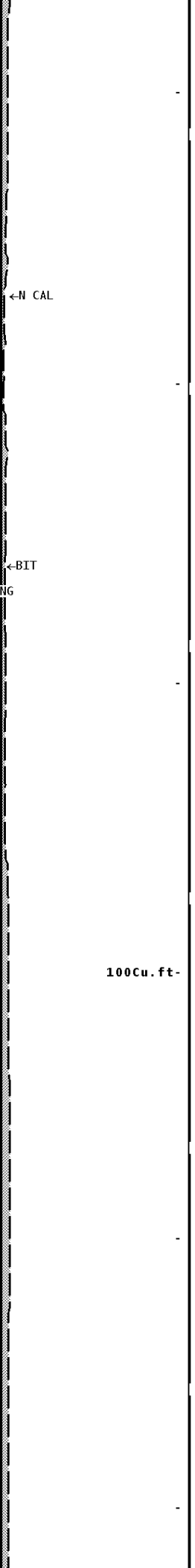
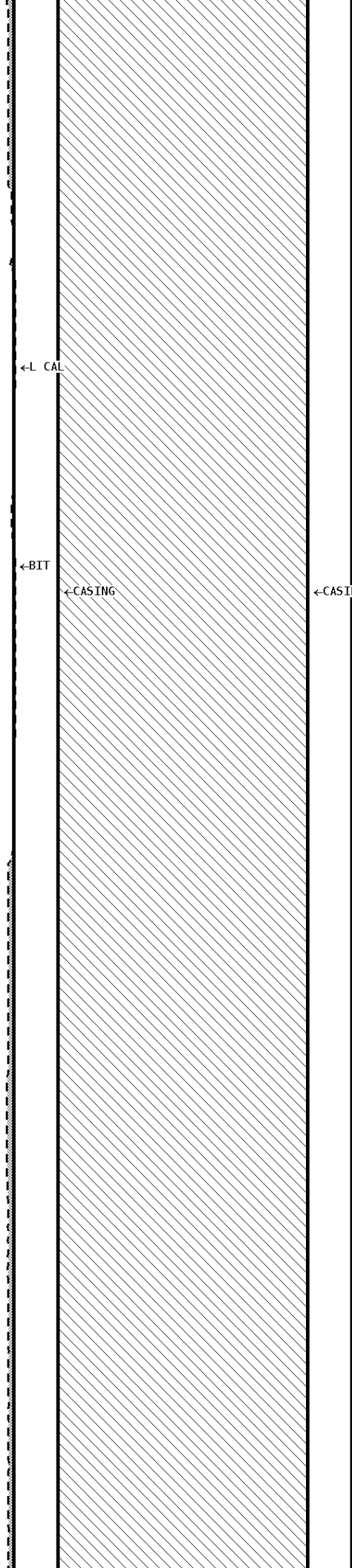
200Cu.ft-



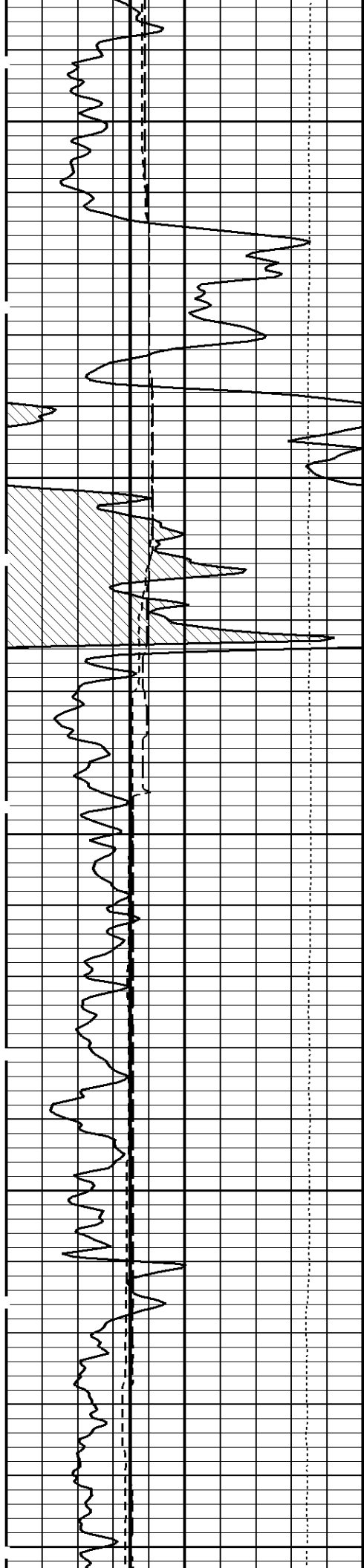
1700

1800

-200Cu.ft



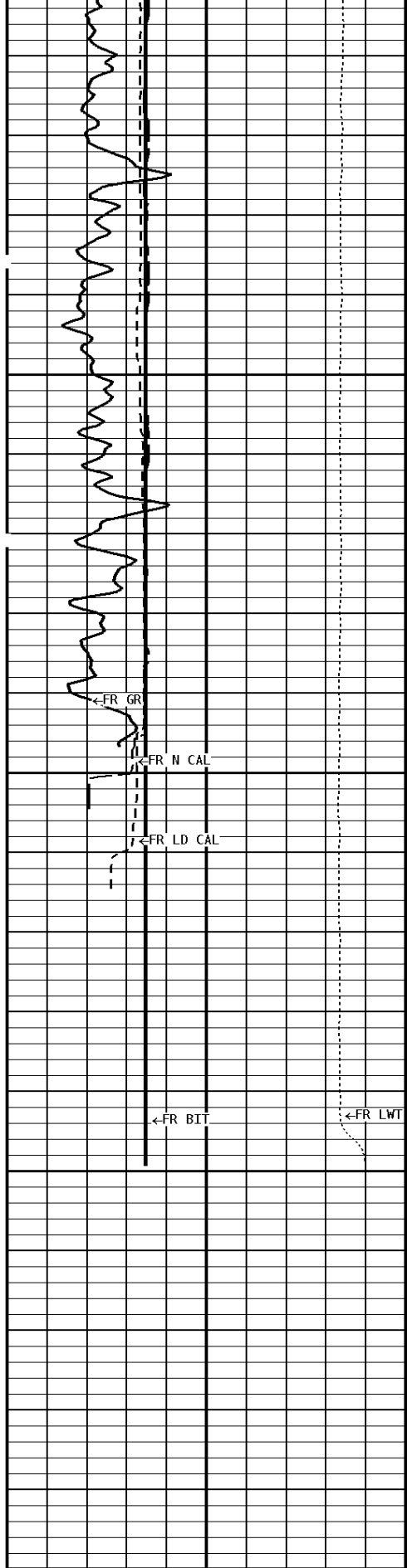
100Cu.ft-



1900

-100Cu.ft

2000

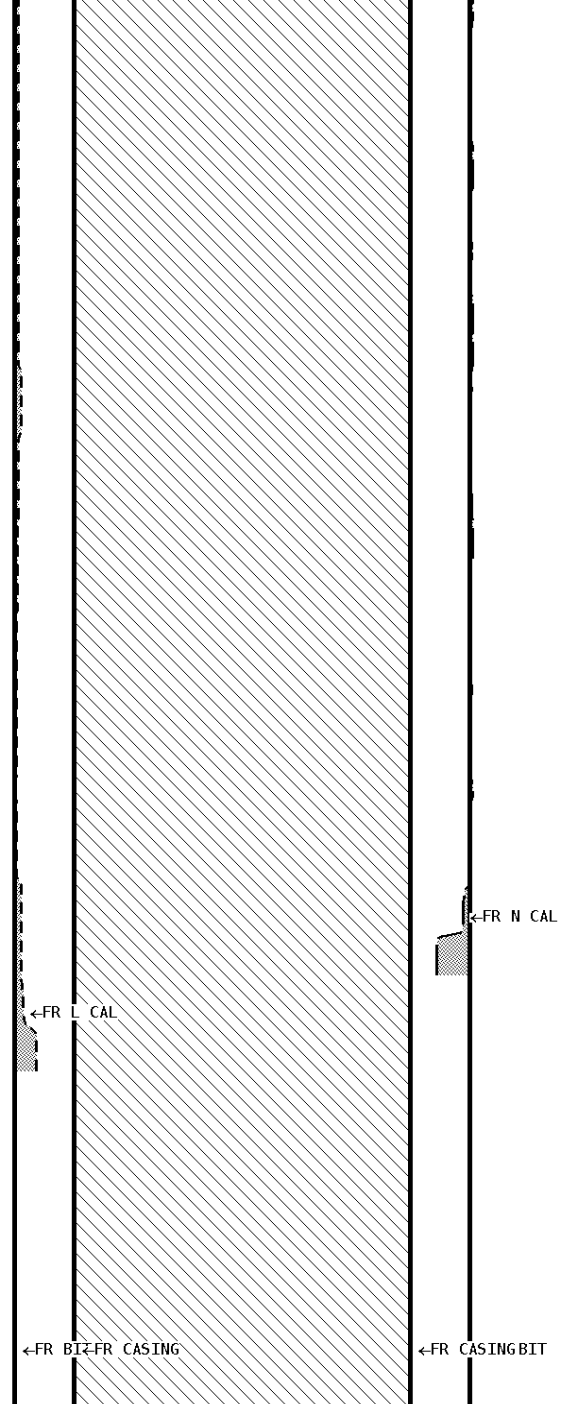


2100

2194

File #1.1.5

1:240 MAIN SECTION



GAMMA RAY API UNITS	
150 0	300 150
TENSION LBS	
10000	0
X CALIPER INCHES (IN)	
16 6	26 16
Y CALIPER INCHES (IN)	
16 6	26 16
BIT SIZE INCHES (IN)	
6	16

BOREHOLE VOLUME CU.FT	ANNULAR HOLE VOLUME CU.FT.
--	---

*** Borehole Zone Factors ***

Zone 1 99999.0 to 0.0 Feet	
Drill Bit Size _____	9.500 in
Casing Diameter _____	7.000 in

*** Calibration Summary ***

Shop Calibration GRT-B					
Performed : 15-Mar-2013			Time : 11:26		
Sensor Suite : GR-GR5			ID : GRT-BC-41		
	Measured	Units	Calibrated	Units	
GR	Background	Jig	Jig	GRAPI	
	54	360	175		
Shop Calibration CNT-AA					
Performed : 28-MAR-2013			Time : 09:54		
Sensor Suite : CALI-BCN			ID : NDT-BB-129		
	Jig - Measured		Jig - Calibrated	Units	
CL # 1	Ring#1 Ring#2		Ring#1 Ring#2	IN.	
	8.9 13.7		6.0 12.0		
Shop Calibration LDT-DF					
Performed : 26-MAR-2013			Time : 09:47		
Sensor Suite : CALI-LTH			ID : PDT-GA-465		
	Jig - Measured		Jig - Calibrated	Units	
CL # 1	Ring#1 Ring#2		Ring#1 Ring#2	IN.	
	7.6 10.5		6.0 12.0		



Company: DAYSTAR PETROLEUM LLC.
 Well: MCGINNIS-FEE #20
 Location: 1980' FSL & 4290' FEL
 Logged: 2013-03-30
 K.B. Elev: 0.0 Ft