

Tucker

WIRELINE SERVICES

COMPENSATED NEUTRON
PEL DENSITY LOG

Company RUNNING FOXES PETROLEUM Well WUNDERLY #11-36C-3		File No : TUL-57397	
Field BOURBON		Company : RUNNING FOXES PETROLEUM INC.	
County KANSAS		Well : WUNDERLY #11-36C-3	
Country USA		Field : BOURBON	
API No. 15-011-23962-0000		County : KANSAS	
		State : KANSAS	
		Country : USA	
		API No : 15-011-23962-0000	
Location : 1470' FSL & 1485' FWL SW SW NE SW		LSD : Sect : 36 Twp : 24S Rge : 23E	
Permanent Datum:	GL	Elevations:	
Drilling Measured From:	GL	KB 0.00	Ft
Log Measured From:	GL	DF 0.00	Ft
Above Permanent Datum:	0.00 Ft	GL 891.00	Ft
Date	2012-06-27		
Run Number	1		
Depth--Driller	591.0 Ft		
Depth--Logger	588.0 Ft		
First Reading	565.0 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 LBS/GAL		
Fluid Loss	0.0 CC		
PH/Viscosity	0.0 SEC		
Sample Source	MEASURED		
RM@Measured Temp.	10.000 @ 80 F		
RMF@Measured Temp	8.000 @ 80 F		
RMC@Measured Temp.	12.000 @ 80 F		
Source RMF/RMC	CALCULATED/CALCULATED		
RM@BHT	10.100 @ 79 F		
Time Circulation Stopped	2012-06-27 09:18		
Max Recorded Temp.	79 F		
Equipment/Base	TRK 127 TULSA		
Recorded By	SHELDON TYLER		
Witnessed By	K. HODGES		

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Bitsize Intervals		Casing Strings		
Size (In)	Bottom (Ft)	Size (In)	Weight (Lbs)	Bottom (Ft)
6.750	591.00	8.625	32.00	20.00

Run Number	1	
Date	2012-06-27	
Date/Time On Bottom	2012-06-27 10:18	
Depth to Fluid	0.0 Ft	
Salinity	0.000 PPM	
RMF@BHT	8.080 @ 79 F	
RMC@BHT	12.120 @ 79 F	

Run Number 1

Comments

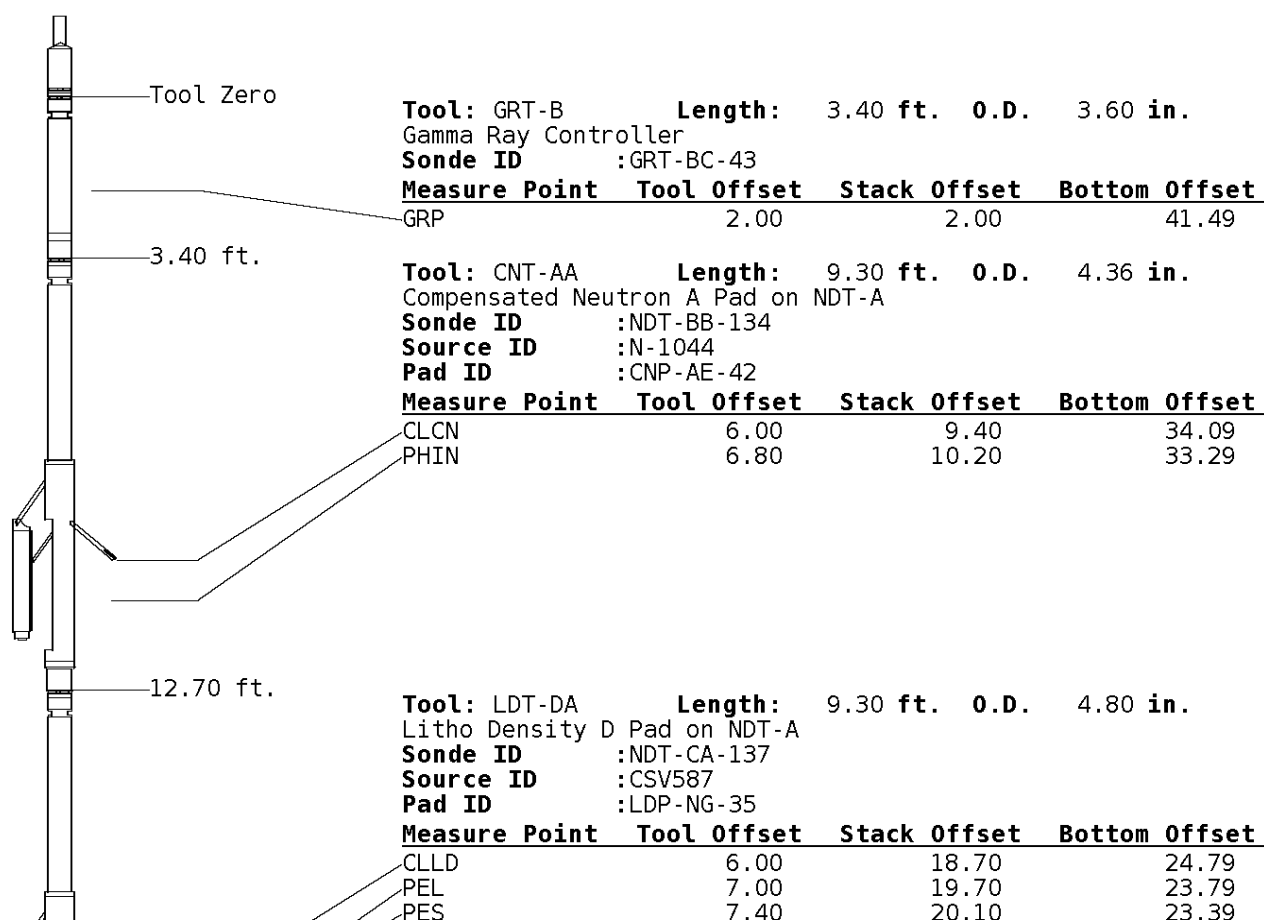
ALL PRESENTATIONS AS PER CUSTOMER REQUEST
 GRT, CNT, LDT, MLT AND PIT RUN IN COMBINATION.
 CALIPERS ORIENTED ON X-Y AXIS.
 2.71 G/CC USED TO CALCULATED POROSITY.
 ANNULAR HOLE VOLUME CALCULATED UISING 2.87500" PRODUCTION CASING.

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

OPERATORS:
 J.T
 A.DJAH

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

22.00 ft.

Tool: PIT-CA **Length:** 21.49 ft. **O.D.** 3.62 in.
Sonde ID :PIT-AC-13
 Phased Dual Induction w/ RM & D

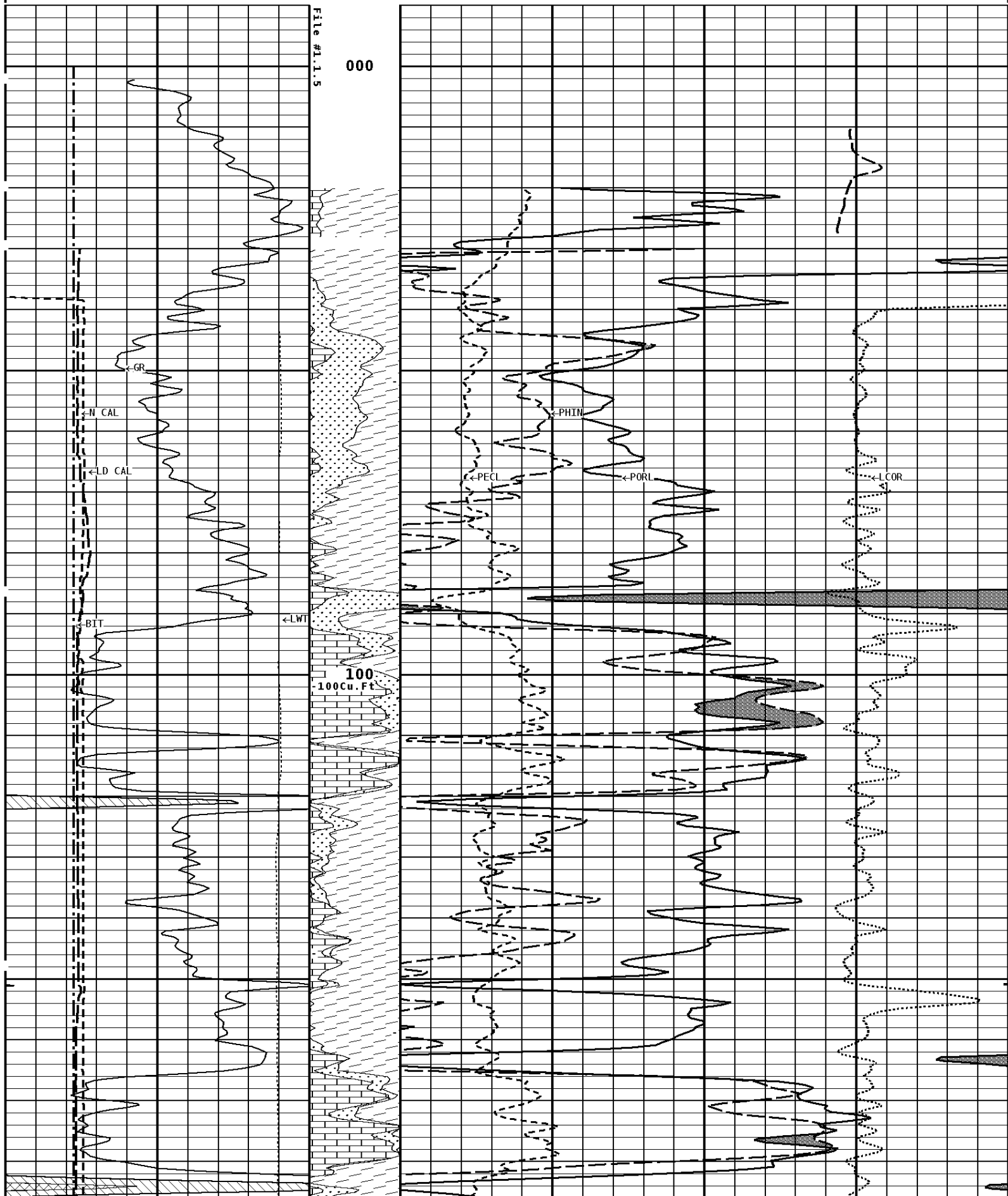
Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	30.92	12.56
ILM	10.10	32.10	11.39
SFLU	17.49	39.49	4.00
SP	20.60	42.60	0.88

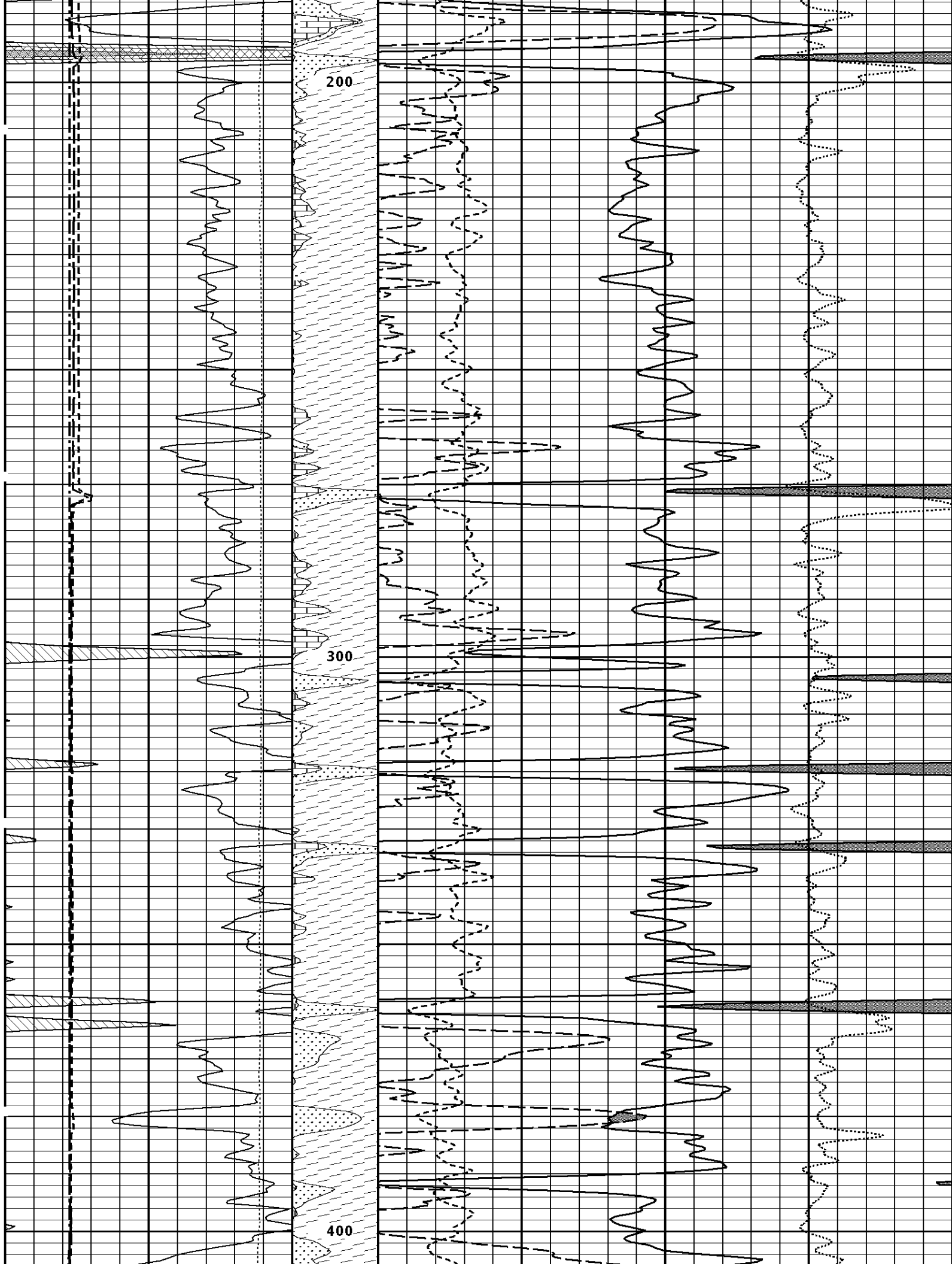
LWT 43.49 ft.

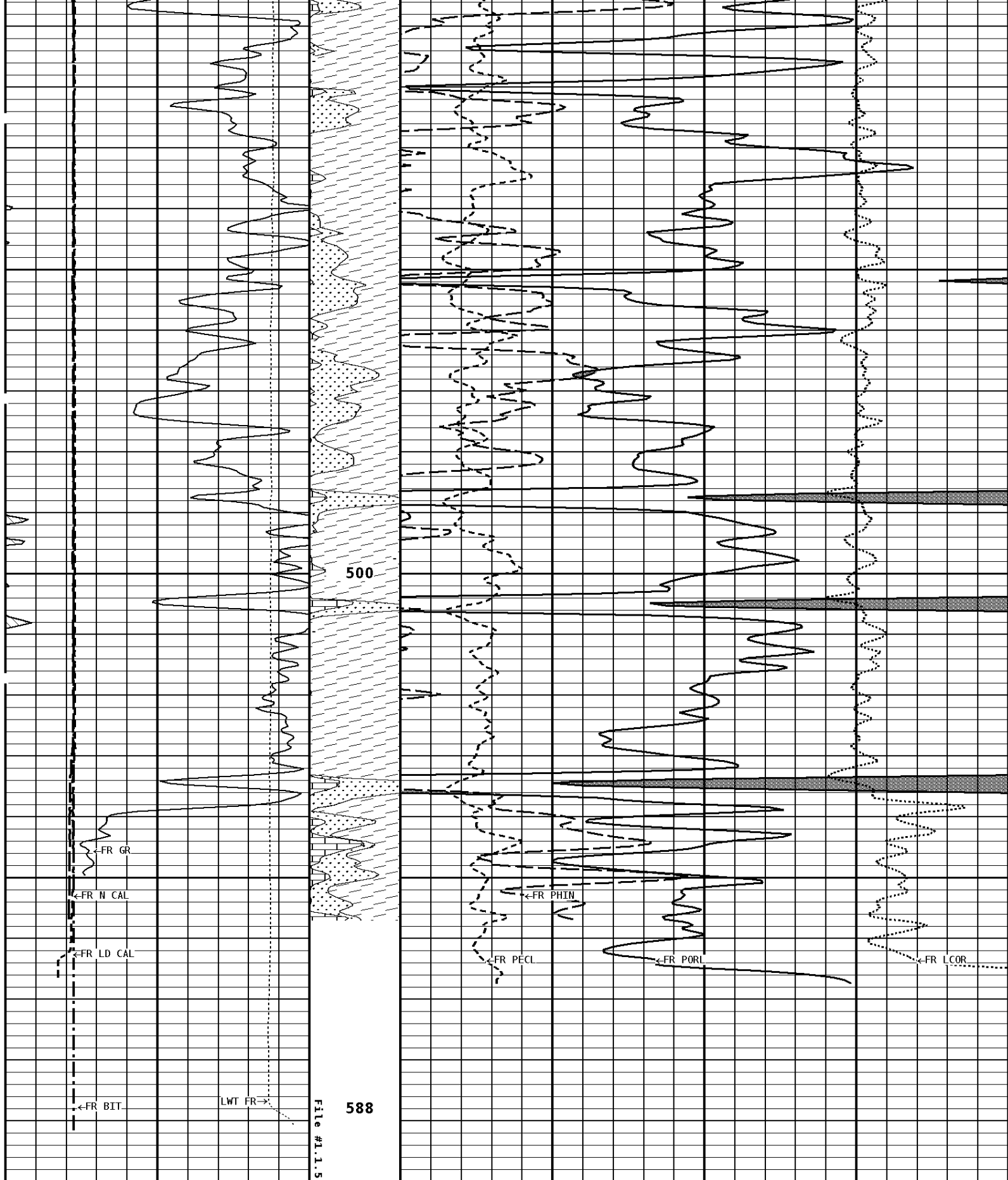
Well File: RFP_WUNDERLY_11-36C-3_JUNE27_STK	Scale: 1:240
Segment: V1.D1.S5 Reprocess of MAIN	Acquired: 2012-06/27 10:53 3.2.0-10990
Reference: 0	Processed: 2012-06/27 11:05 3.2.0-10990

TENSION LBS 10000 0			
BIT SIZE INCHES (IN) 4 14		Volume Dolo/Shale	
DENSITY (X) CALIPER INCHES (IN) 14 24 4 14		Volume Quartz	PE CROSS-SECTION BARNs/ELECTRON
			DENSITY CORRECTION G/CC
			0 10 -0.25 0.25
NEUTRON (Y) CALIPER INCHES (IN) 14 24 4 14		Volume Calcite	NEUTRON POROSITY PERCENT (LIMESTONE MATRIX)
			30 -10
GAMMA RAY API UNITS 200 400 0 200		- BHV AHV - CU. FT	DENSITY POROSITY PERCENT (2.71 g/cc)
			70 30 -10 30 -50
			-10 -50

1:240 MAIN SECTION







1:240 MAIN SECTION

[illegible]

#1.1.3

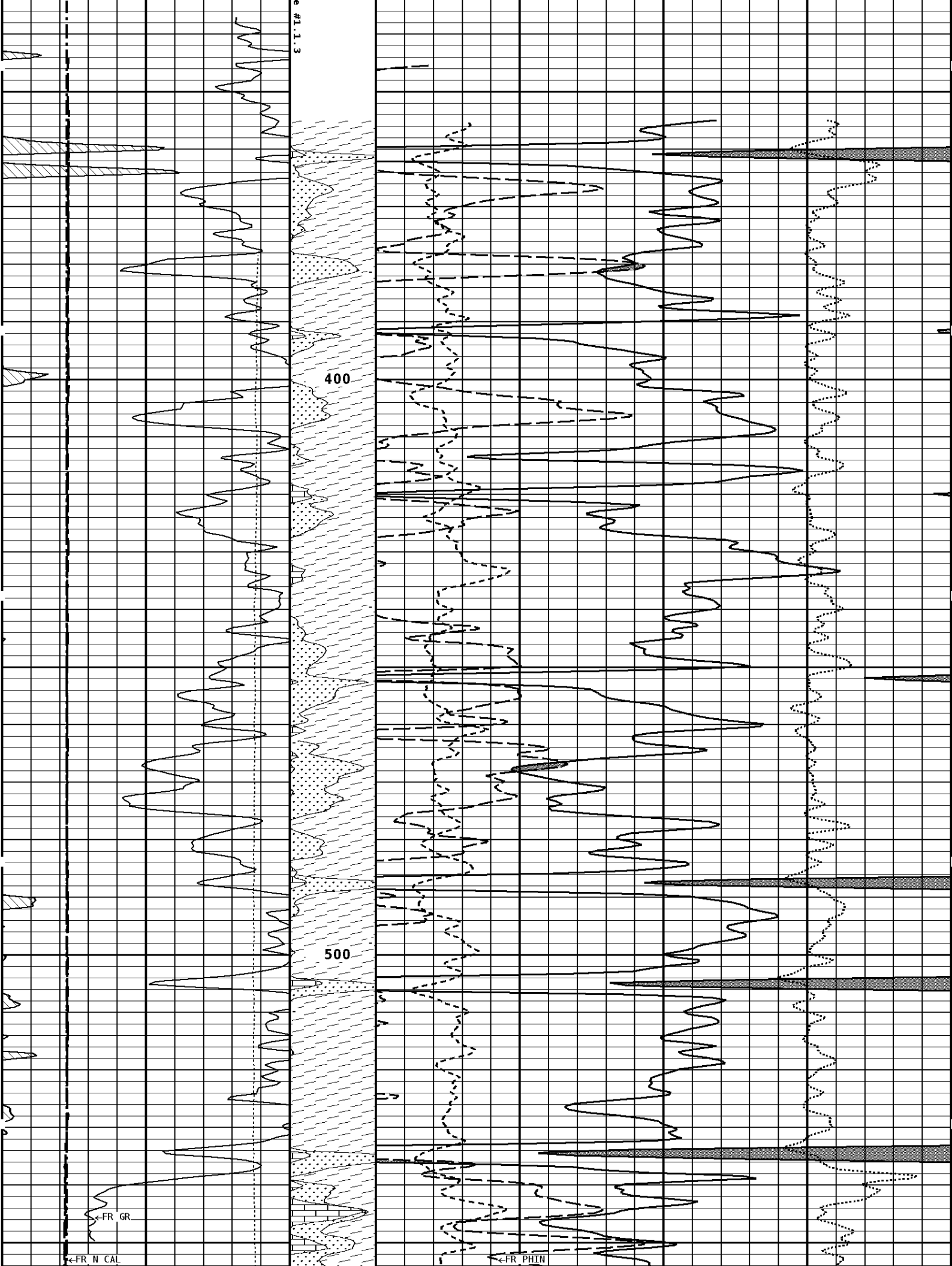
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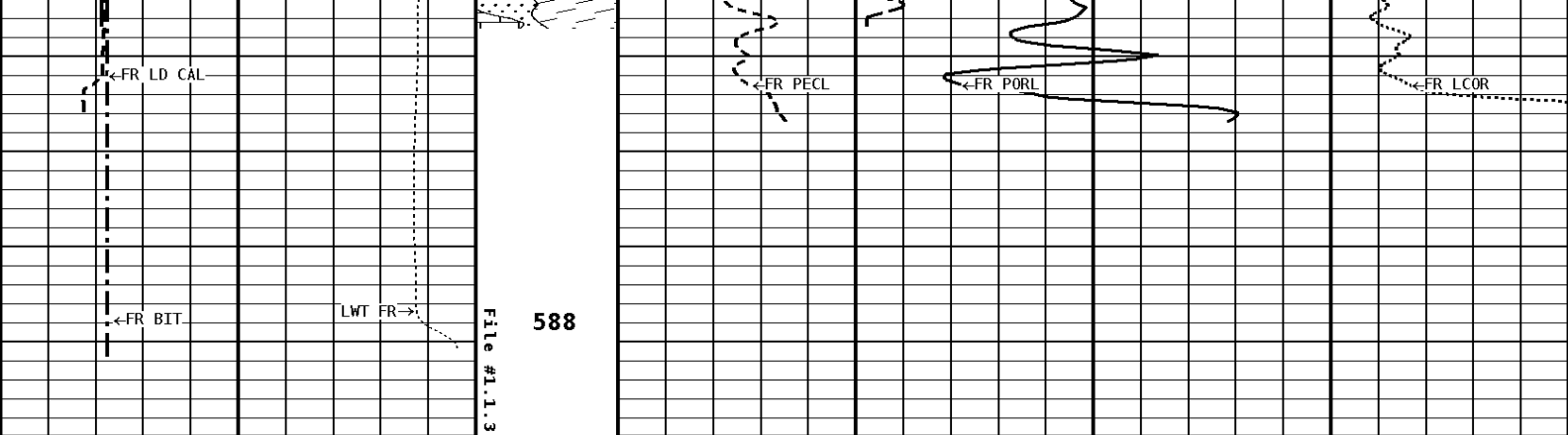
500

←FR GR

←FR N CAL

←FR PHIN





1:240 REPEAT SECTION

GAMMA RAY API UNITS		- BHV AHV - CU.FT	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		30	-10
4	14			
DENSITY (X) CALIPER INCHES (IN)		Volume Quartz	PE CROSS-SECTION BARNS/ELECTRON	DENSITY CORRECTION G/CC
14	24		0	10
4	14			-0.25
				0.25
BIT SIZE INCHES (IN)		Volume Dolo/Shale		
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		6.250	in
Casing Diameter		2.800	in
Casing Correction (PHI N)		Disable	

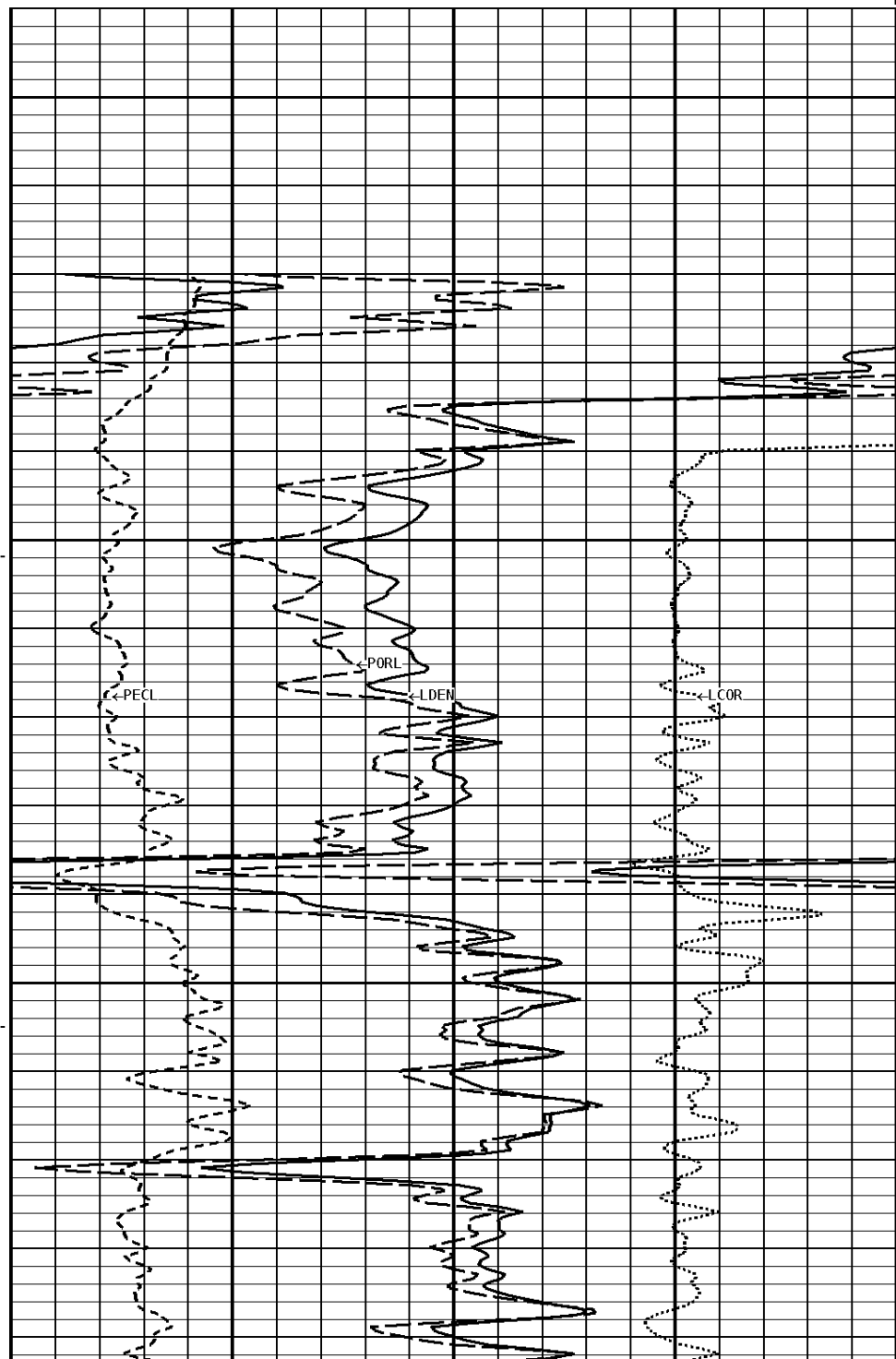
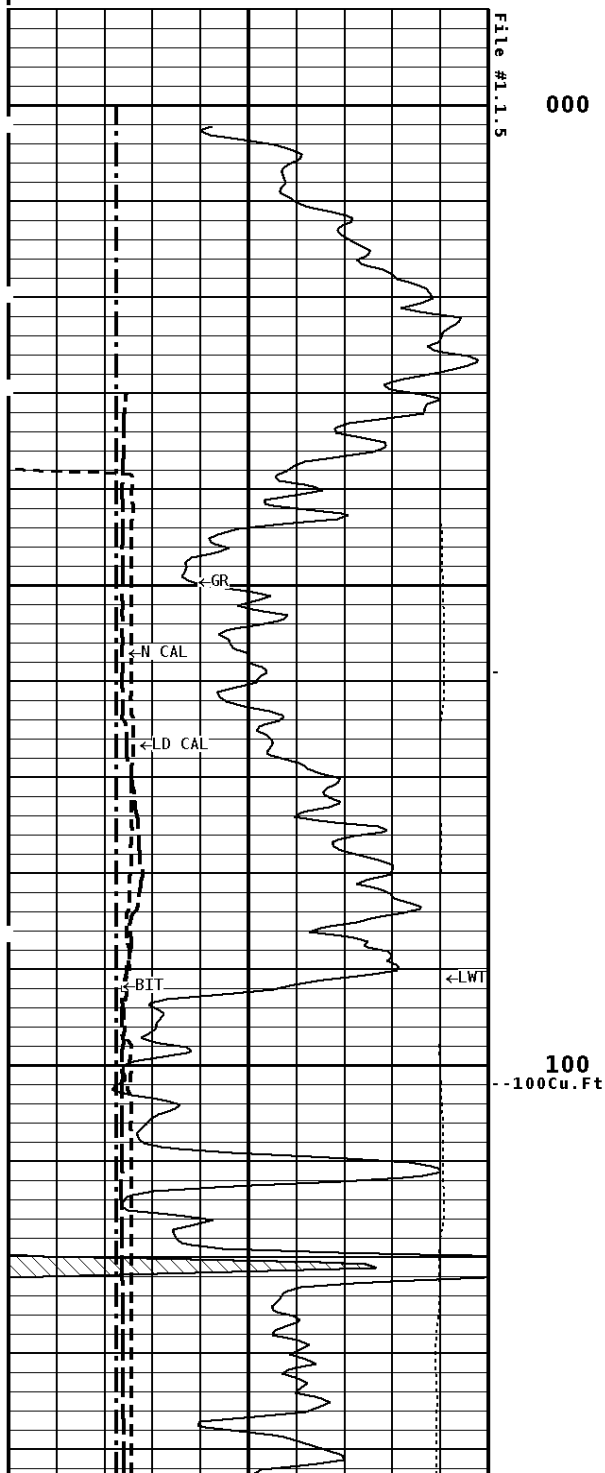
Well File: RFP_WUNDERLY_11-36C-3_JUNE27_STK	Scale: 1:240
Segment: V1.D1.S5 Reprocess of MAIN	Acquired: 2012-06/27 10:53 3.2.0-10990
Reference: 0	Processed: 2012-06/27 11:05 3.2.0-10990

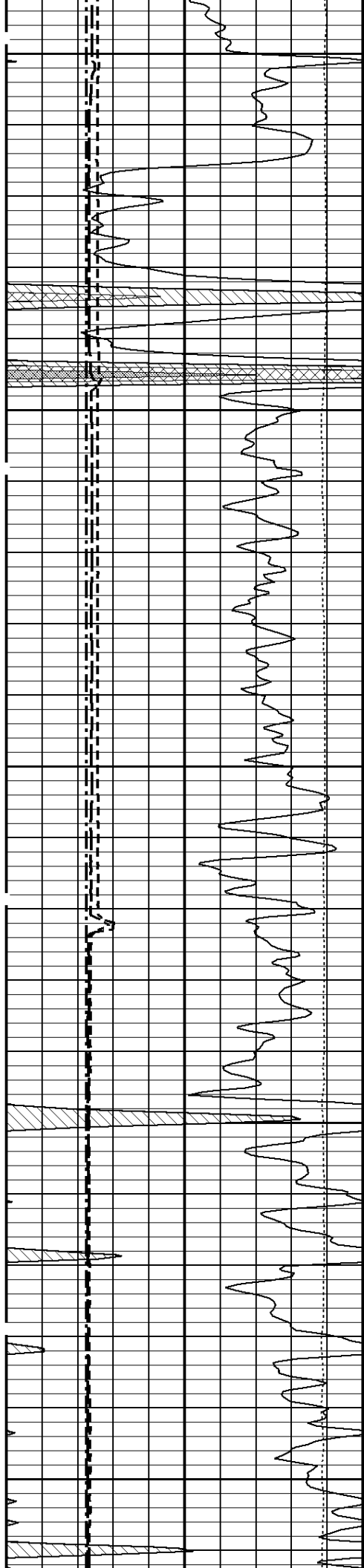
TENSION LBS
10000 0
BIT SIZE INCHES (IN)
4 14
DENSITY (X) CALIPER

PE CROSS-SECTION	DENSITY CORRECTION
------------------	--------------------

DENSITY (X) CALIPER INCHES (IN)		PE CROSS-SECTION BARN/ ELECTRON		DENSITY CORRECTION G/CC	
14	24	0	10	-0.25	0.25
4	14				
NEUTRON (Y) CALIPER INCHES (IN)		DENSITY POROSITY PERCENT (2.71 g/cc)			
14	24	70			
4	14	30			
		-10			
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

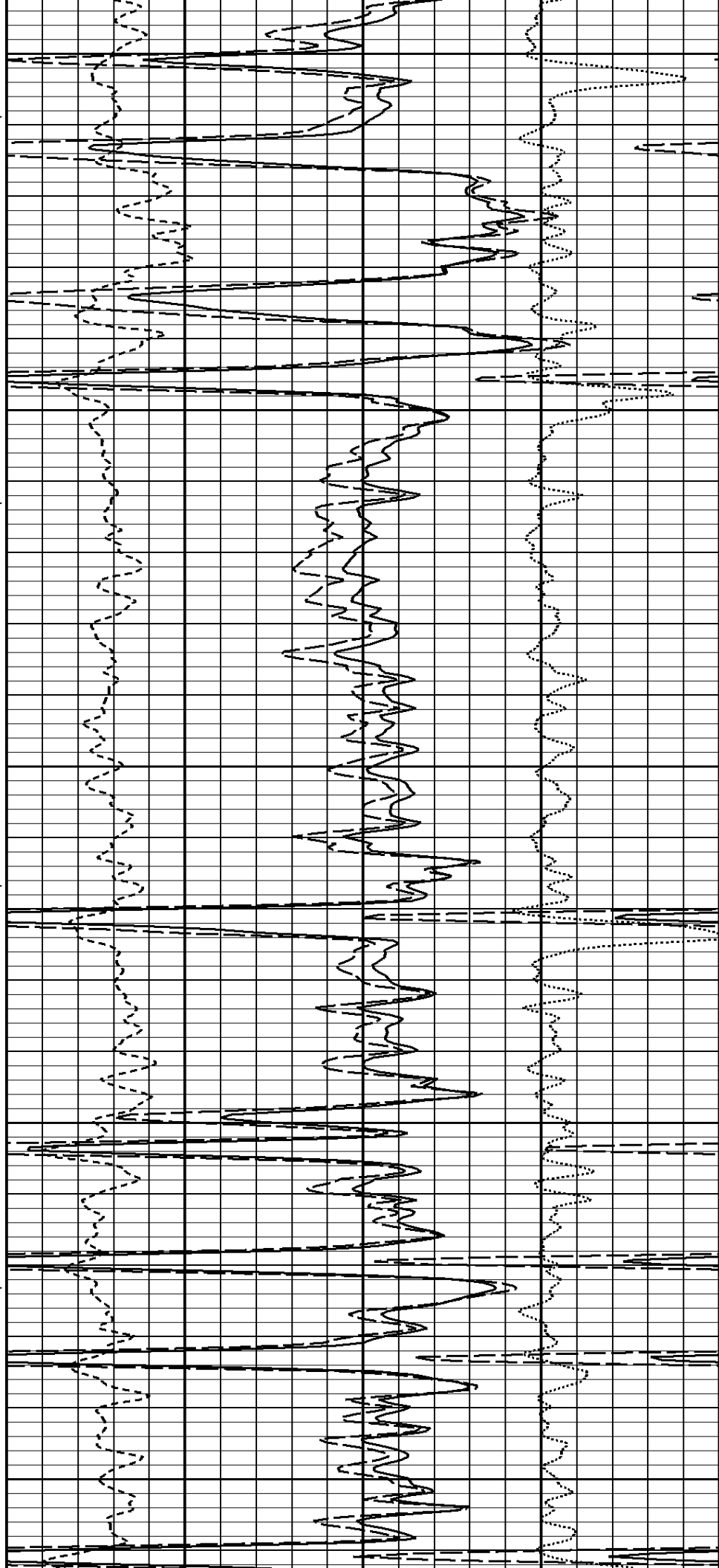
1:240 MAIN SECTION
BULK DENSITY

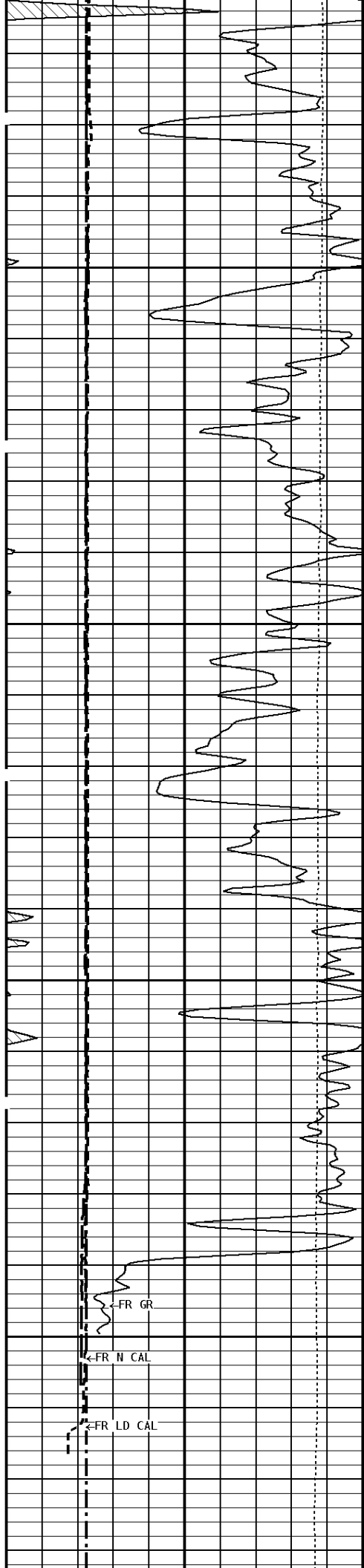




200

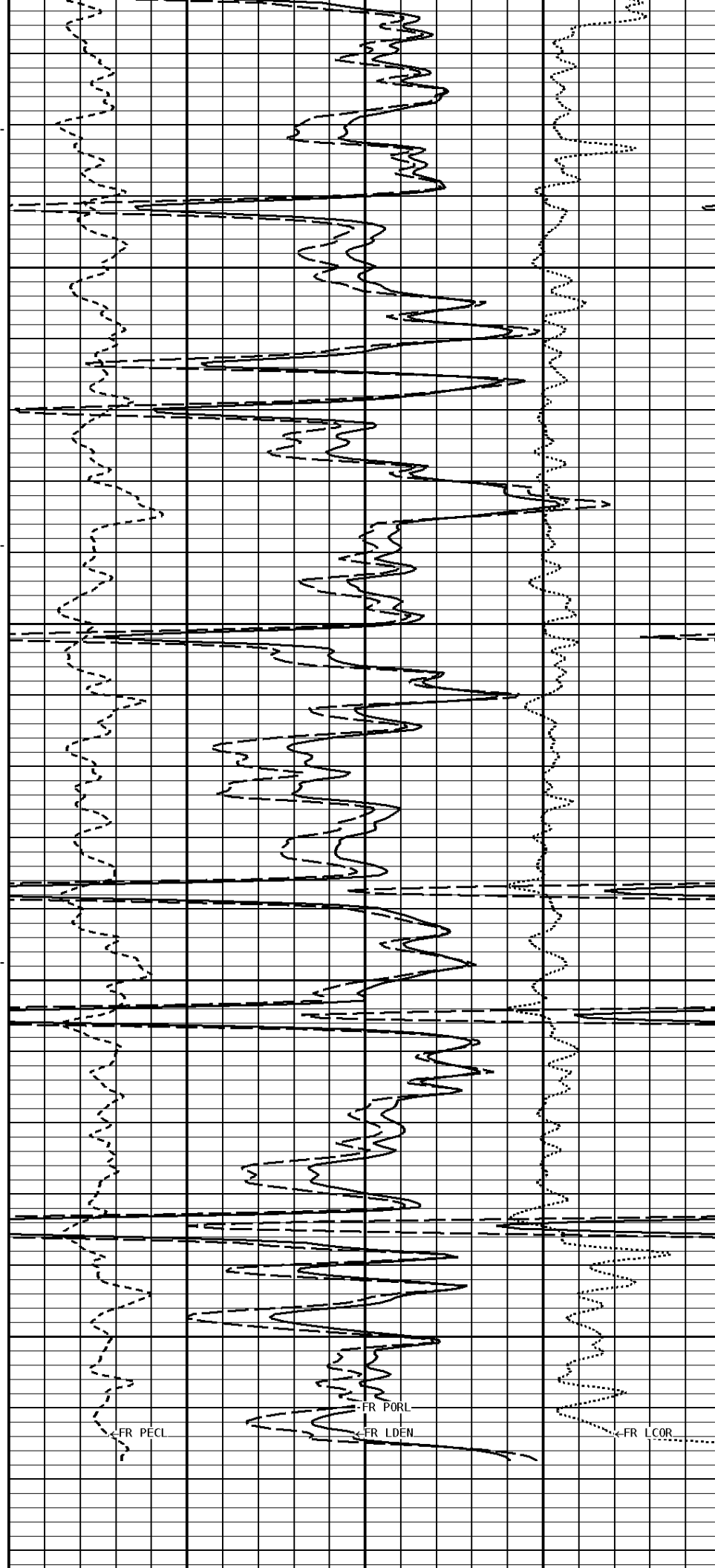
300





400

500



←FR GR

←FR N CAL

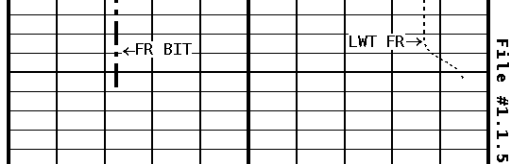
←FR LD CAL

←FR PECL

←FR PORL

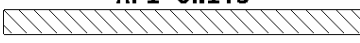
←FR LDEN

←FR L COR



588

1:240 MAIN SECTION BULK DENSITY

GAMMA RAY API UNITS 200  400 0 200		COMPENSATED BULK DENSITY G/CC 3.0 4.0 2.0 3.0 1.0 2.0	
NEUTRON (Y) CALIPER INCHES (IN) 14 24 4 14		DENSITY POROSITY PERCENT (2.71 g/cc) 70 30 30 -10 -10 -50	
DENSITY (X) CALIPER INCHES (IN) 14 24 4 14		PE CROSS-SECTION BARNS/ELECTRON 0 10 -0.25 0.25	
BIT SIZE INCHES (IN) 4 14		DENSITY CORRECTION G/CC -0.25 0.25	
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	_____	6.250	in
Casing Diameter	_____	2.800	in
Casing Correction (PHI N)	_____	Disable	

* Calibration Summary *

Shop Calibration GRT-B					
Performed : 25-MAY-2012			Time : 12:22		
Sensor Suite : GR-GR5			ID : GRT-BC-43		
	Measured	Units	Calibrated	Units	
GR	Background	Jig	Jig		
	45	315	175	GRAPI	
Shop Calibration CNT-AA					
Performed : 17-JUN-2012			Time : 10:19		
Sensor Suite : CALI-BCN			ID : NDT-BB-134		
	Jig - Measured		Jig - Calibrated	Units	
	Ring#1 Ring#2		Ring#1 Ring#2		
CL # 1	11.5 17.5		6.0 12.0	IN.	
Performed : 28-Mar-2012			Time : 12:17		
Sensor Suite : BHC NEUT			ID : CNP-AE-42		
Source ID : N-1044					
	Tank	Verification	Units		
	Measured	Calibrated	Jig		

N/F	Measured	Calibrated	Jig		
	3.6342	3.6893	3.7042		
Porosity	19.7	20.5	20.7	%	
Shop Calibration					
LDT-DA					
Performed : 20-JUN-2012			Time : 13:21		
Sensor Suite : CALI-LTH			ID : NDT-CA-137		
	Jig - Measured		Jig - Calibrated		Units
	Ring#1	Ring#2	Ring#1	Ring#2	
CL # 1	7.0	13.0	6.0	12.0	IN.
Performed : 22-May-2012			Time : 12:16		
Sensor Suite : BHCPELNG			ID : LDP-NG-35		
Source ID : CSV587					
Short Space					
	BKGD	Al	Mg	Al+Fe	Units
LSW1	70	492	769	329	CPS
LSW2	74	585	937	418	CPS
LSW3	281	1400	2219	1195	CPS
LSW4	348	1291	1818	1142	CPS
LSW5	35	47	48	46	CPS
LSW6	85	87	86	86	CPS
LSW7	59	60	59	59	CPS
LSW8	3	3	4	3	CPS
QS	0.182	0.187	0.190	0.187	
PES			2.778	5.967	
SSDN		2.600	1.680		G/CC
Long Space					
	BKGD	Al	Mg	Al+Fe	Units
LLW1	106	555	2090	359	CPS
LLW2	116	1015	4175	727	CPS
LLW3	453	2010	7518	1740	CPS
LLW4	581	1168	3035	1085	CPS
LLW5	65	70	85	68	CPS
LLW6	185	186	179	184	CPS
LLW7	120	117	113	117	CPS
LLW8	4	5	10	5	CPS
QL	0.213	0.225	0.224	0.222	
PEL			2.697	5.458	
LSDN		2.600	1.680		G/CC



Tucker
WIRELINE SERVICES

Company: RUNNING FOXES PETROLEUM INC.

Well: WUNDERLY #11-36C-3

Location: 1470' FSL & 1485' FWL

Logged: 2012-06-27

K.B. Elev: 0.0