

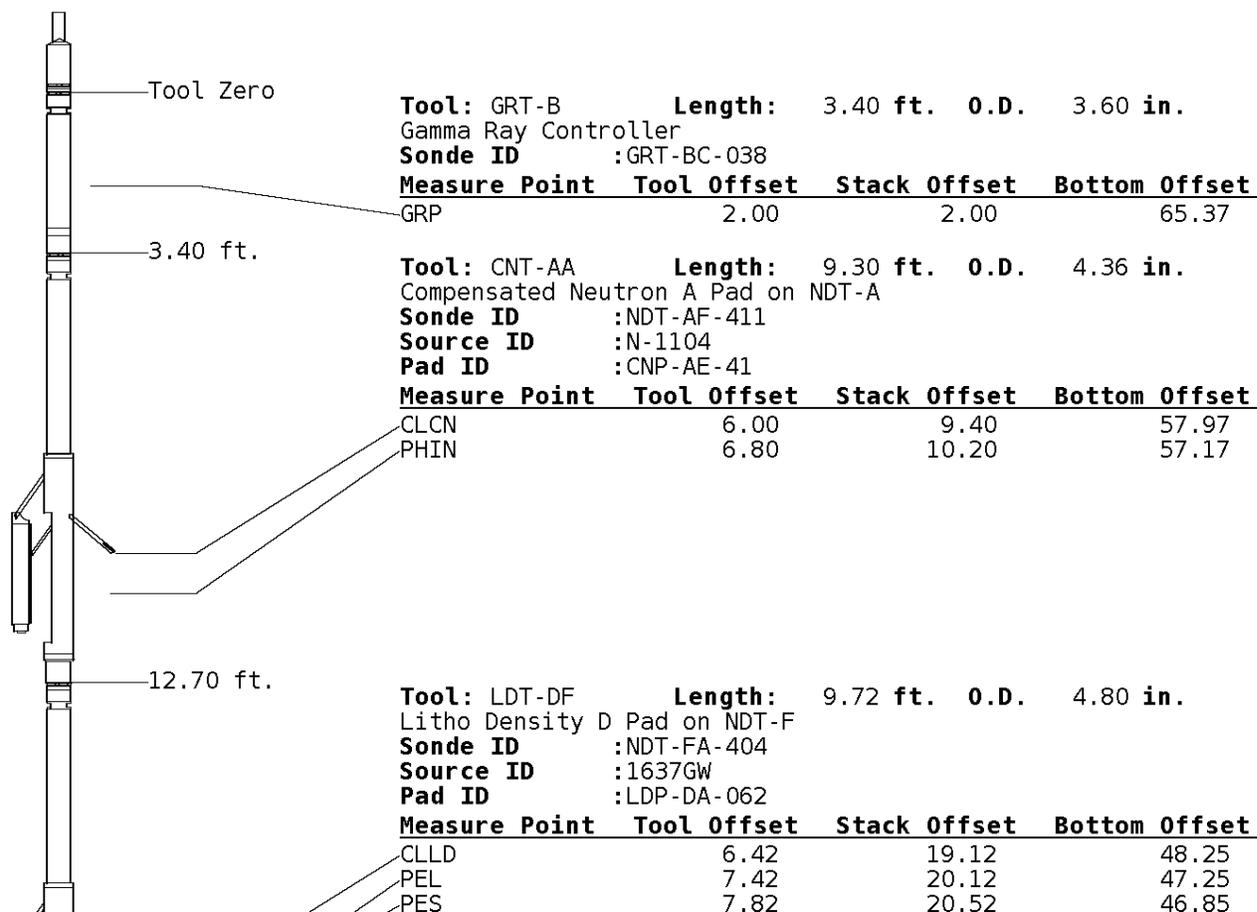
ALL PRESENTATIONS AS PER CUSTOMER REQUEST
 GRT, CNT, LDT, CST, MLT AND PIT RUN IN COMBINATION
 CALIPERS ORIENTED ON X-Y AXIS
 2.71 G/CC USED TO CALCULATE POROSITY
 ANNULAR HOLE VOLUME CALCULATED USING 5.5" PRODUCTION CASING
 PHIN IS CALIPER CORRECTED

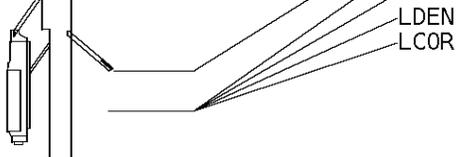
GRT: GRP
 CNT: PHIN, CLCNIN,
 LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN
 CST: PORS, CDTF, TTIPF, TT2PF, TT3PF, TT4PF, ITT
 MLT: NOR_RF, INV_RF, MSCLPIN
 PIT: ILD, ILM, SPU, SFLAEC, CIRD

OPERATORS:
 D. RAGSDALE
 J. VAUGHN
 D.LEGLEITER
 Z.AL SUDANI

Tool String Schematic

Total Tool Length - 67.37 ft.
Maximum Outside diameter - 6.00 in.
Net Weight in Air - 1171.00 lbs.



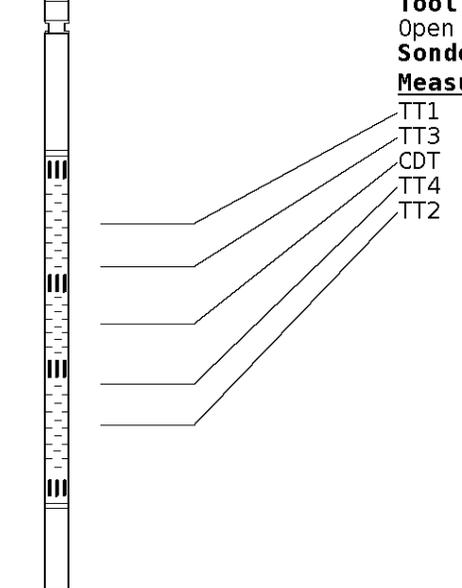


7.62 20.32 47.05
 7.62 20.32 47.05

22.42 ft.

Tool: CST-AD **Length:** 13.80 ft. **O.D.** 3.60 in.
 Open Hole Sonic
Sonde ID :CST-AB-21

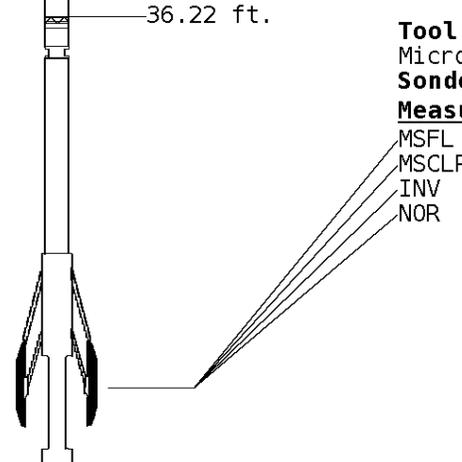
Measure Point	Tool Offset	Stack Offset	Bottom Offset
TT1	4.80	27.22	40.15
TT3	5.80	28.22	39.15
CDT	7.30	29.72	37.65
TT4	8.80	31.22	36.15
TT2	9.80	32.22	35.15



36.22 ft.

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

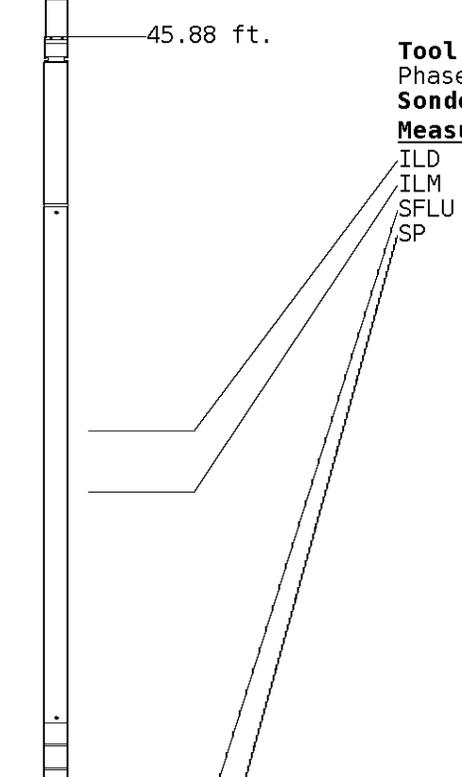
Measure Point	Tool Offset	Stack Offset	Bottom Offset
MSFL	7.60	43.82	23.55
MSCLP	7.60	43.82	23.55
INV	7.60	43.82	23.55
NOR	7.60	43.82	23.55



45.88 ft.

Tool: PIT-CA **Length:** 21.49 ft. **O.D.** 3.62 in.
 Phased Dual Induction w/ RM & D
Sonde ID :PIT-AC-043

Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	54.80	12.56
ILM	10.10	55.98	11.39
SFLU	17.49	63.37	4.00
SP	20.60	66.48	0.88



LWT 67.37 ft.

Well File: MERIT CORA 1-16 FEB-28_QST

Scale: 1:240 Format: COM-meri

Segment: V1.D1.S5 Reprocess MAIN

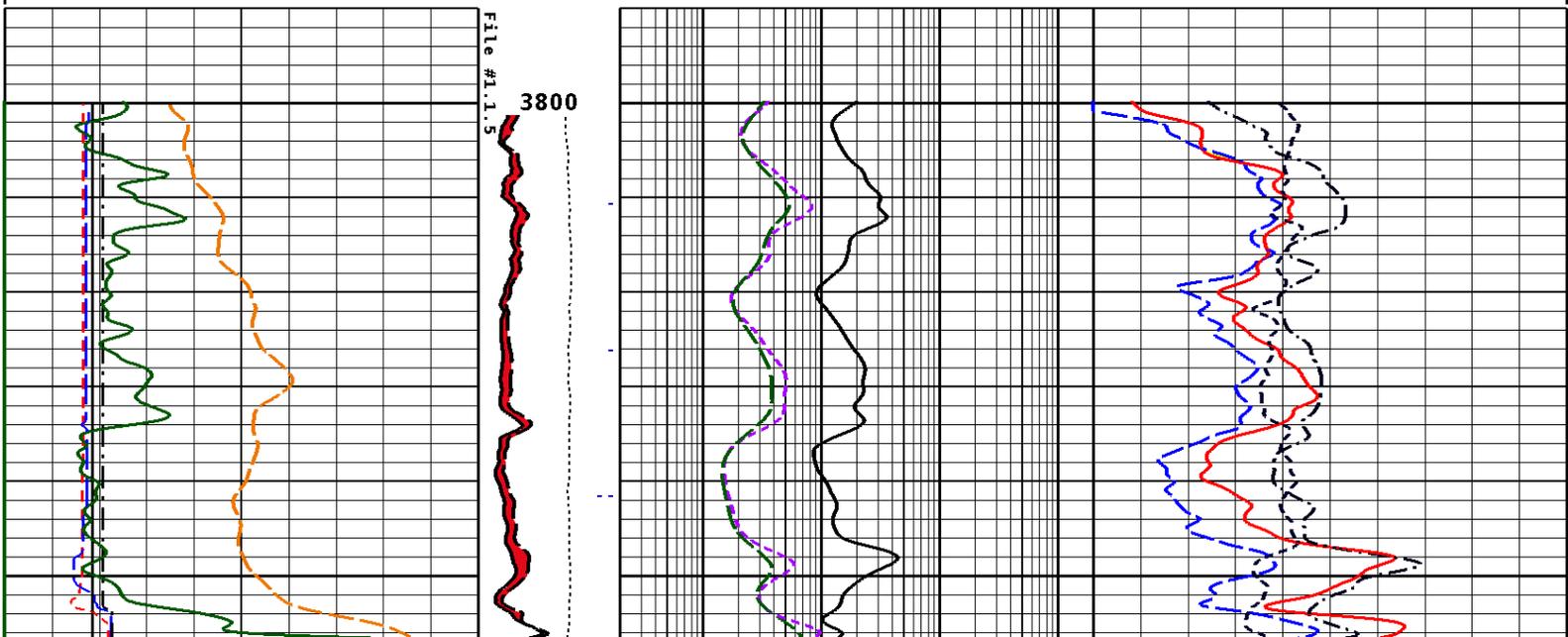
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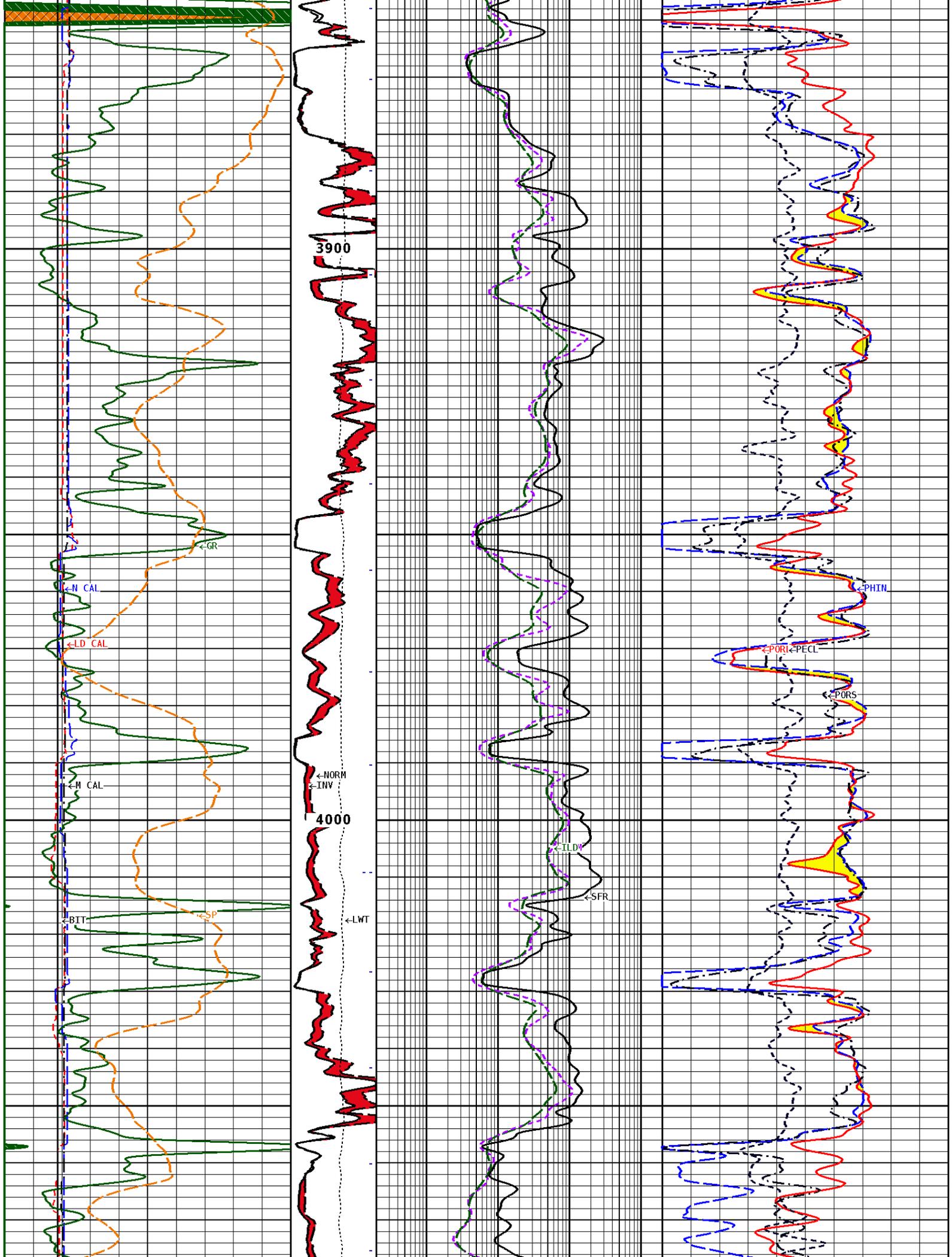
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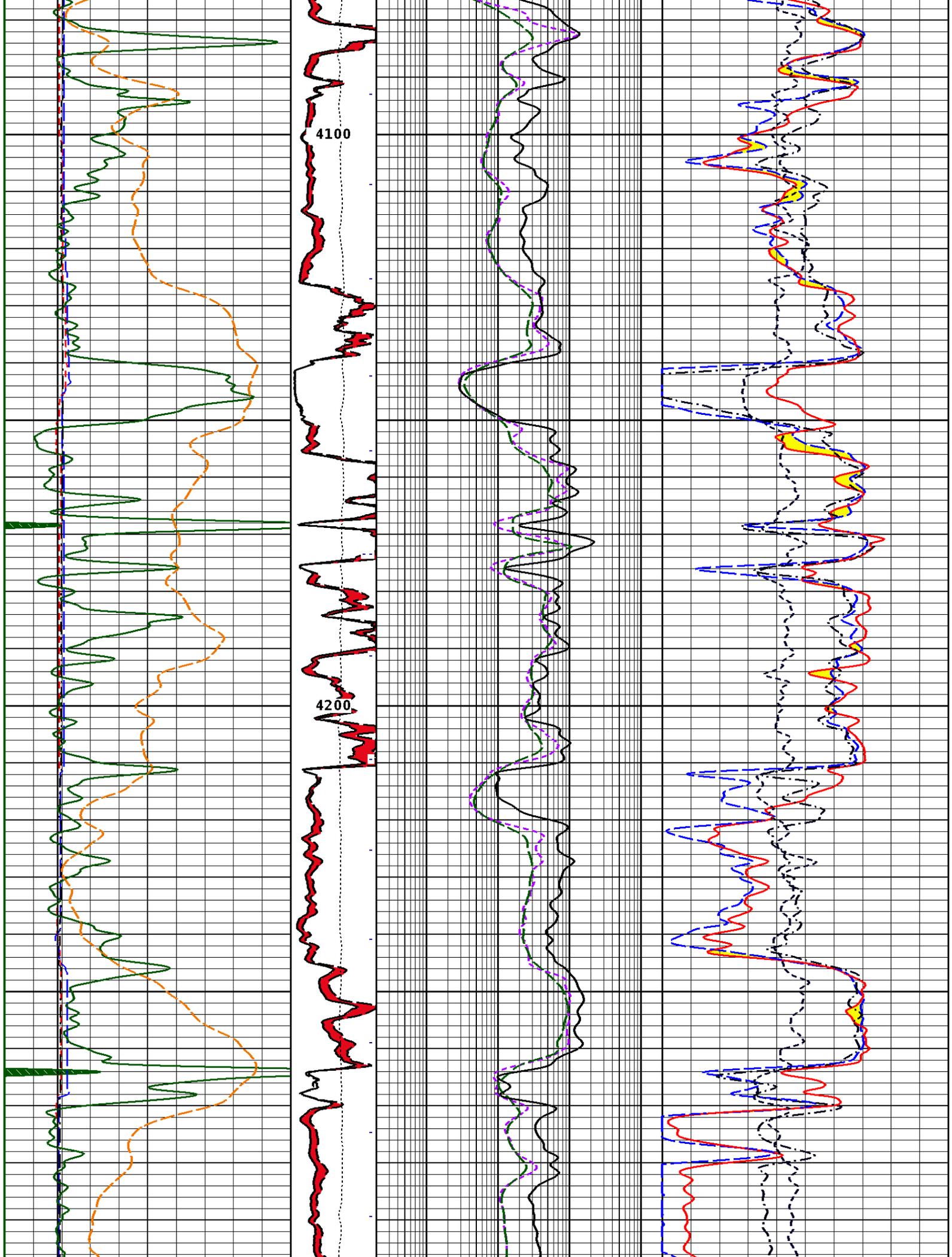
Processed: 2020-02/29 02:11 3.4.1-13972

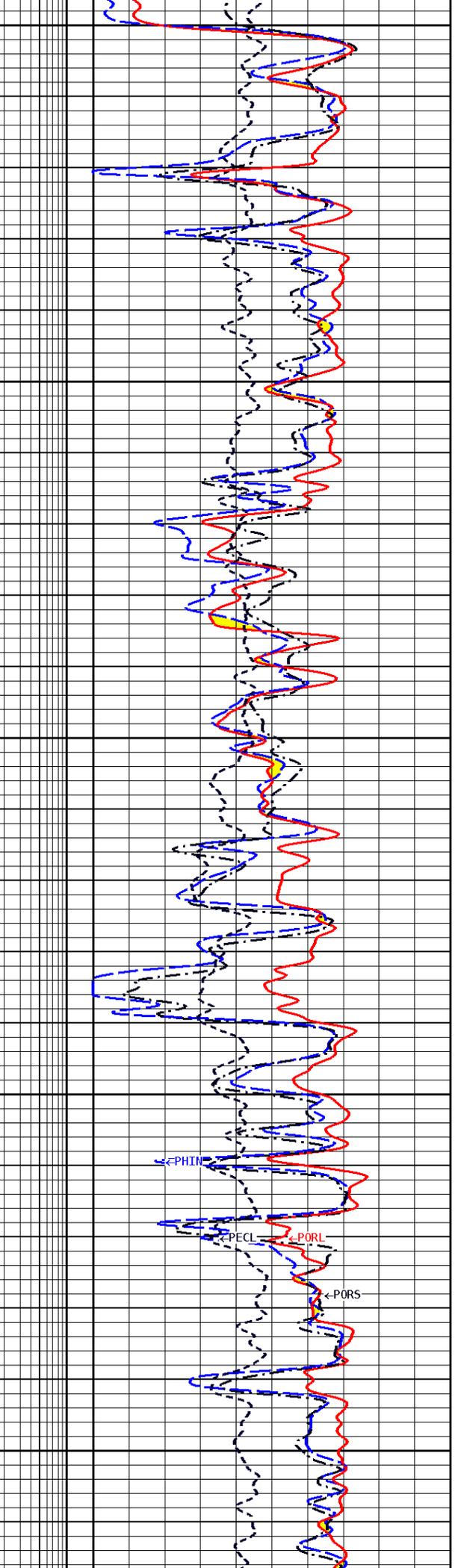
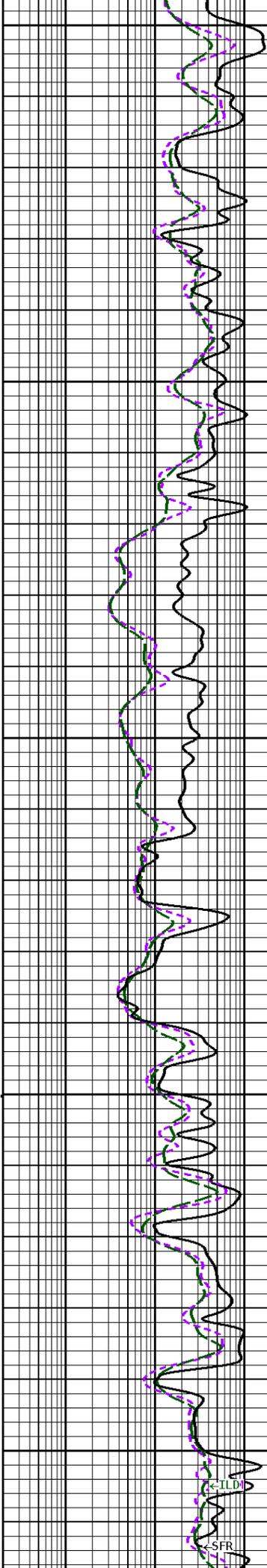
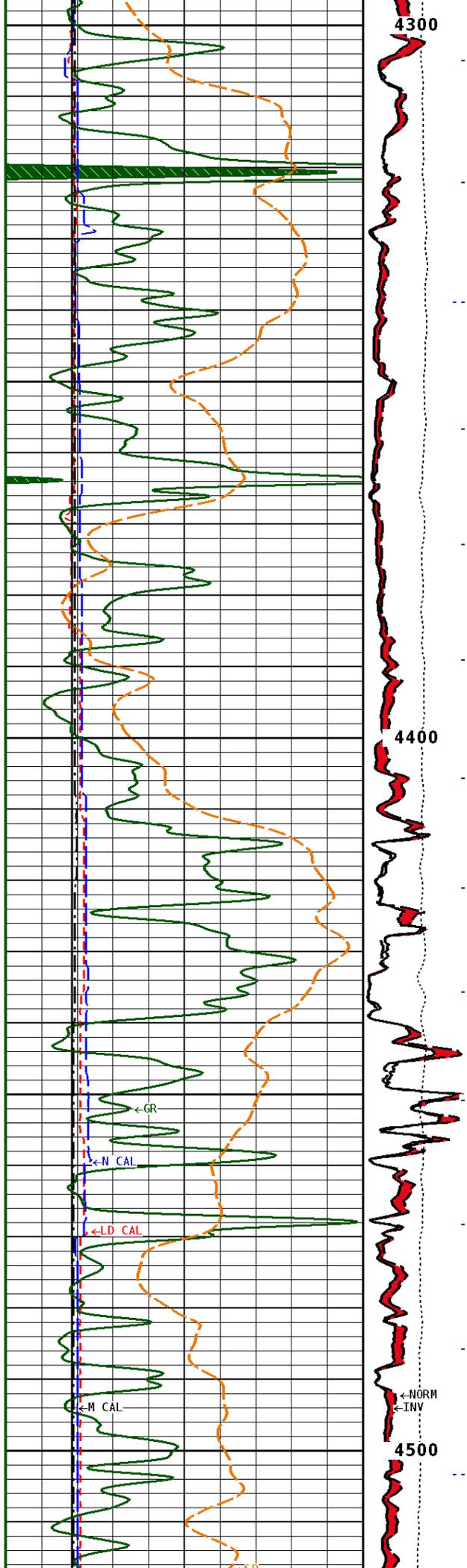
CALIPER MICRO INCHES (IN) 16 26 6 16					
BIT SIZE INCHES (IN) 6 16					
NEUTRON (Y) CALIPER INCHES (IN) 16 26 6 16				SONIC POROSITY Percent 30 -10	
DENSITY (X) CALIPER INCHES (IN) 16 26 6 16		NORMAL OHMM 0 40	SHALLOW FOCUSED RESISTIVITY OHMM 0.2 2000.0		PE CROSS-SECTION BARNSE/ELECTRON 0 10
SPONTANEOUS POTENTIAL mV → ←20		INVERSE OHMM 0 40	DEEP INDUCTION OHMM 0.2 2000.0		DENSITY POROSITY (2.71g/cc) PERCENT 30 -10
GAMMA RAY API UNITS 150 300 0 150		TENSION LBS 4000 2000	MEDIUM INDUCTION OHMM 0.2 2000.0		NEUTRON POROSITY (LIMESTONE) PERCENT 30 -10

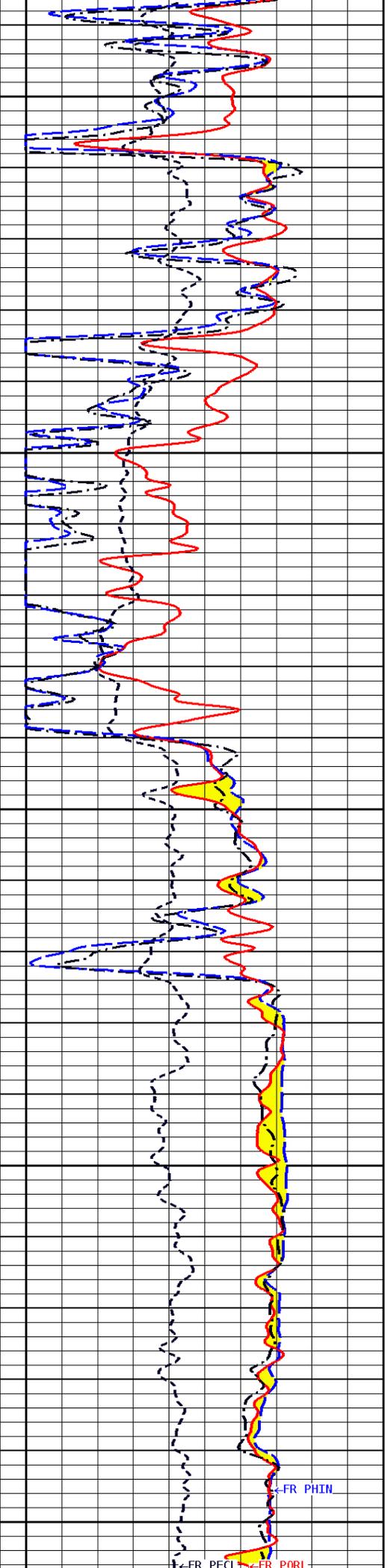
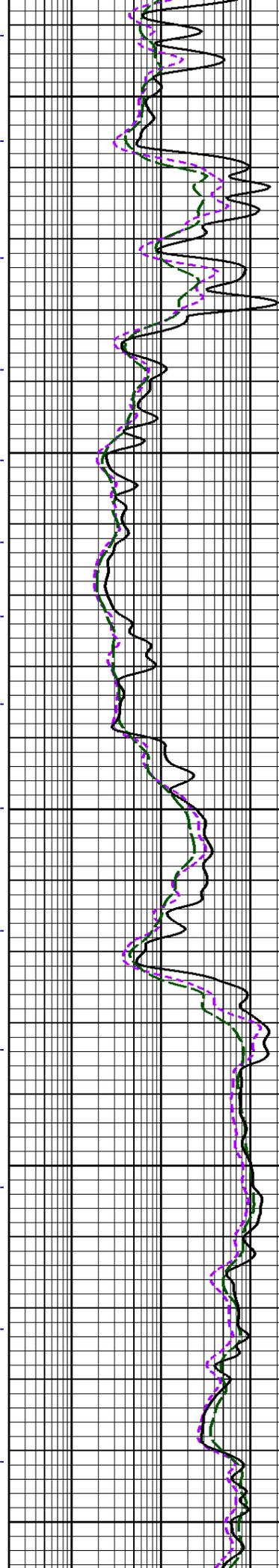
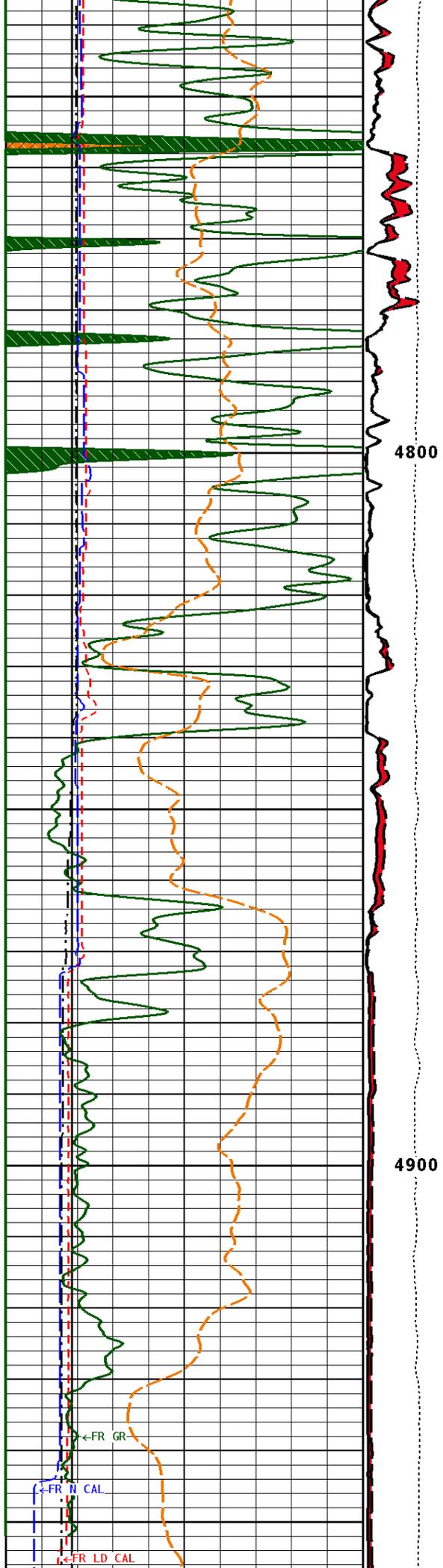
1:240 MAIN SECTION

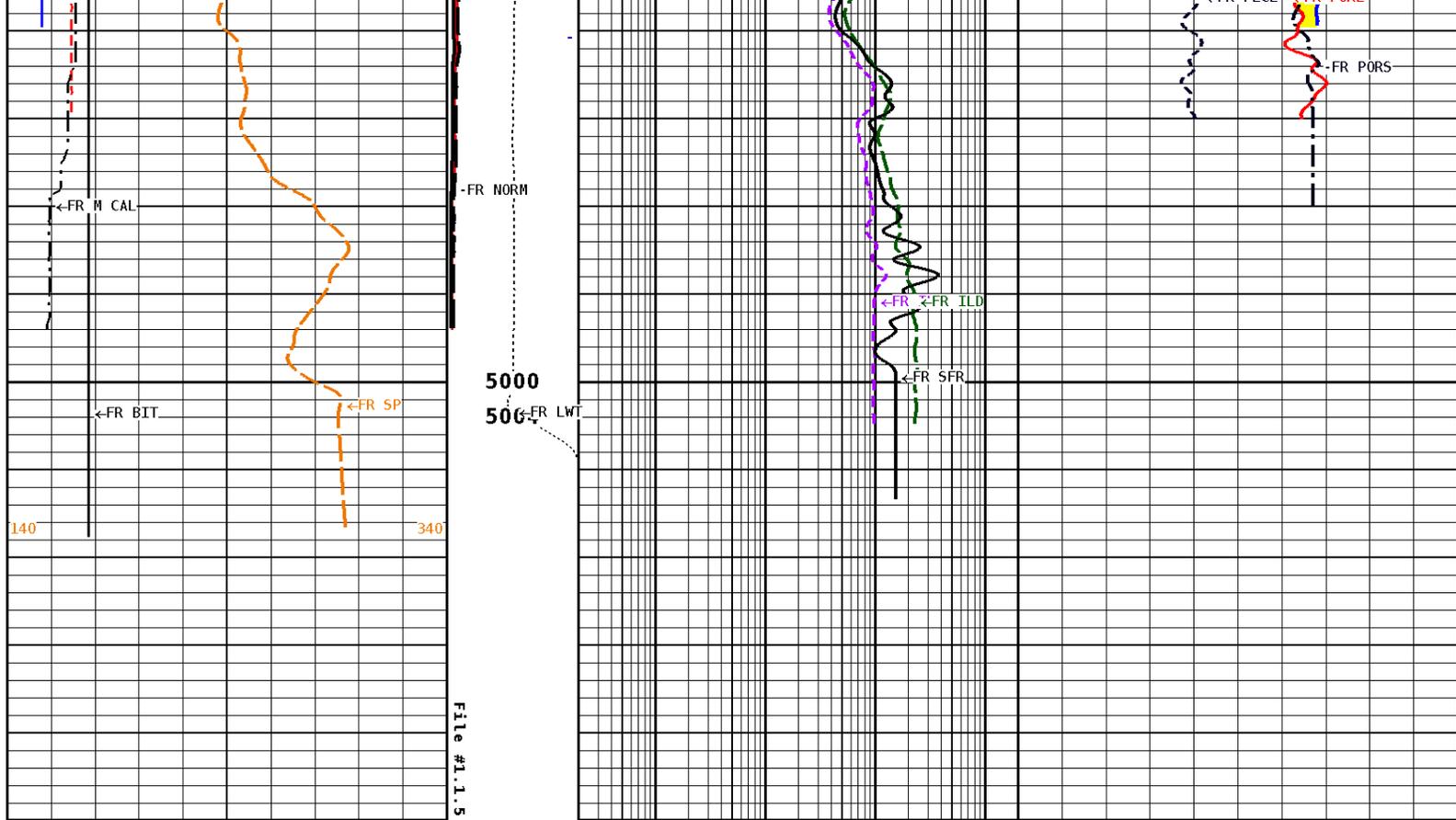










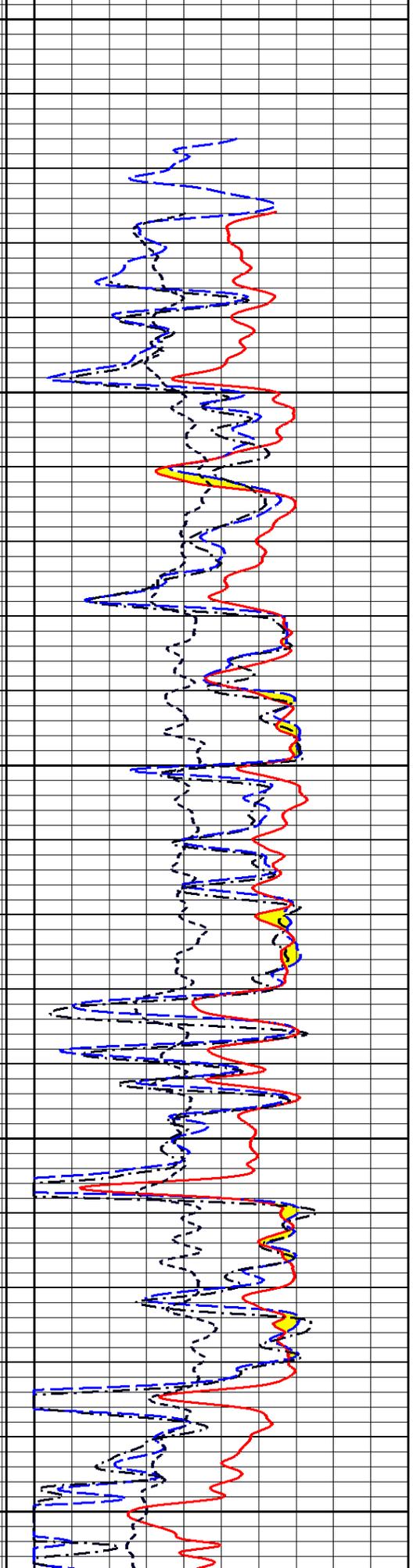
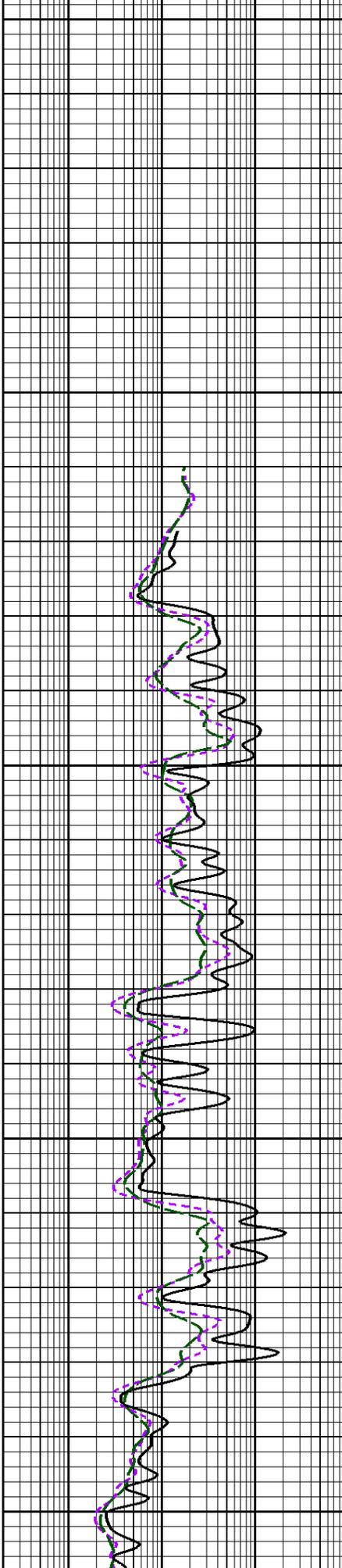
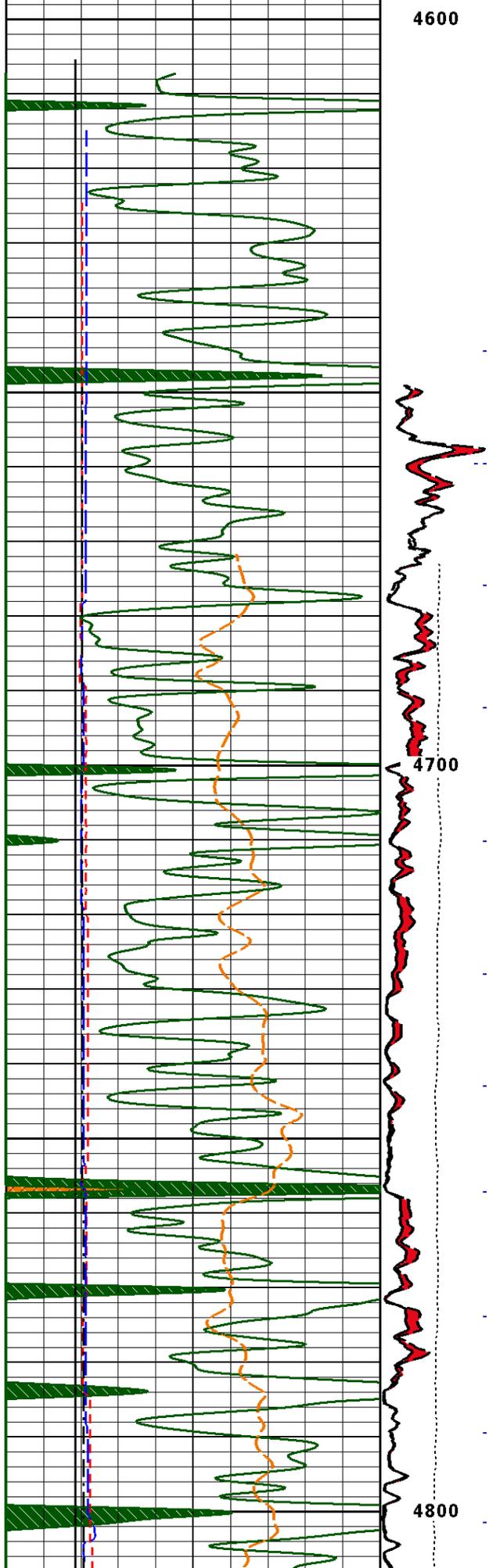


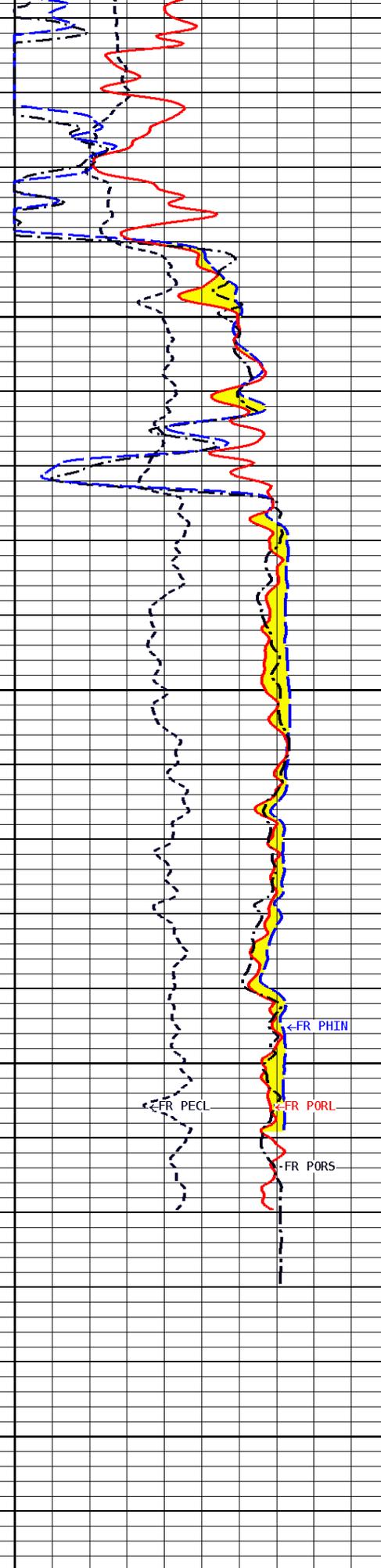
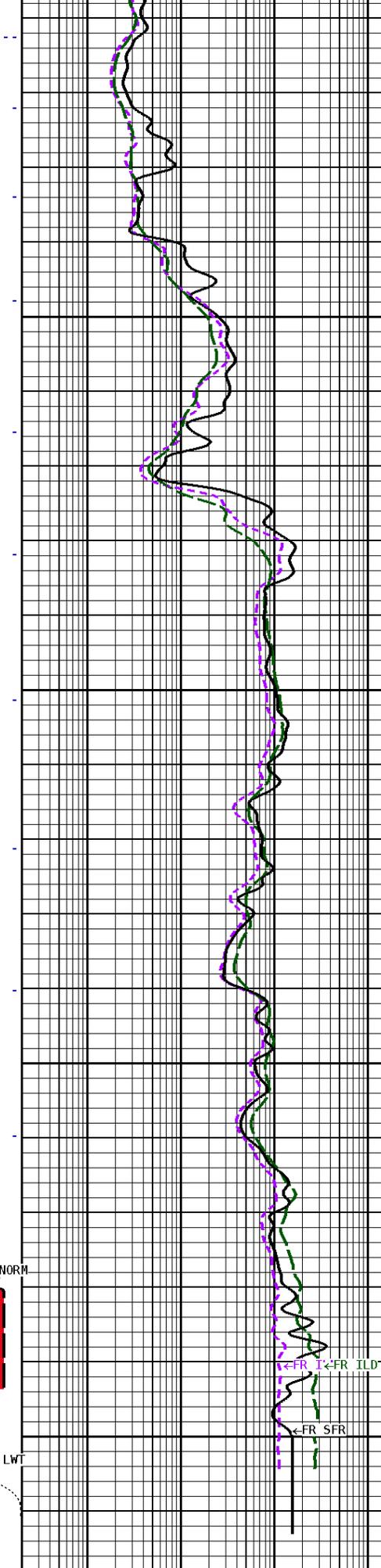
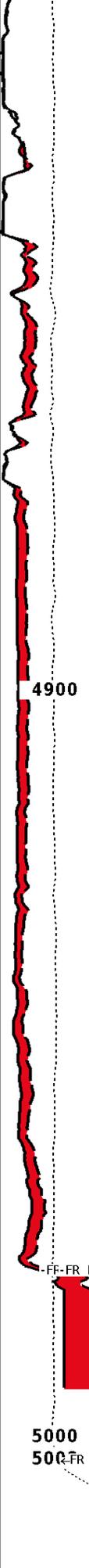
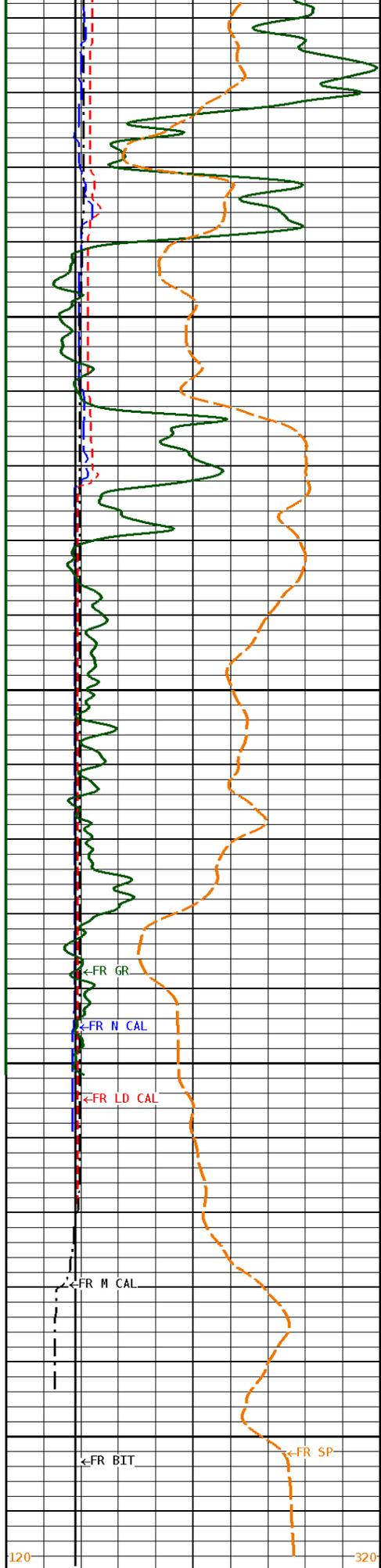
1:240 MAIN SECTION

GAMMA RAY API UNITS 150 0 300 150	TENSION LBS 4000 2000	MEDIUM INDUCTION OHMM 0.2 2000.0	NEUTRON POROSITY (LIMESTONE) PERCENT 30 -10
SPONTANEOUS POTENTIAL mV → ←20	INVERSE OHMM 0 40	DEEP INDUCTION OHMM 0.2 2000.0	DENSITY POROSITY (2.71g/cc) PERCENT 30 -10
DENSITY (X) CALIPER INCHES (IN) 16 6 26 16	NORMAL OHMM 0 40	SHALLOW FOCUSED RESISTIVITY OHMM 0.2 2000.0	PE CROSS-SECTION BARNS/ELECTRON 0 10
NEUTRON (Y) CALIPER INCHES (IN) 16 6 26 16			SONIC POROSITY Percent 30 -10
BIT SIZE INCHES (IN) 6 16			
CALIPER MICRO INCHES (IN) 16 6 26 16			

*** Borehole Zone Factors ***

Zone 1 99999.0 to 0.0 Feet Matrix Density _____ 2.71 g/cc Cementation Exponent _____ 2.00
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120 320

File #1.1.3

1:240 REPEAT SECTION

GAMMA RAY API UNITS 	TENSION LBS 4000 2000	MEDIUM INDUCTION OHMM 0.2 2000.0	NEUTRON POROSITY (LIMESTONE) PERCENT 30 -10
SPONTANEOUS POTENTIAL mV → ← 20	INVERSE OHMM 0 40	DEEP INDUCTION OHMM 0.2 2000.0	DENSITY POROSITY (2.71g/cc) PERCENT 30 -10
DENSITY (X) CALIPER INCHES (IN) 16 26 6 16	NORMAL OHMM 0 40	SHALLOW FOCUSED RESISTIVITY OHMM 0.2 2000.0	PE CROSS-SECTION BARN/ELECTRON 0 10
NEUTRON (Y) CALIPER INCHES (IN) 16 26 6 16			SONIC POROSITY Percent 30 -10
BIT SIZE INCHES (IN) 6 16			
CALIPER MICRO INCHES (IN) 16 26 6 16			

* Borehole Zone Factors *

Zone 1	99999.0 to	0.0 Feet	
Matrix Density		2.71	g/cc
Cementation Exponent		2.00	
A		1.00	
Fluid Density		1.00	g/cc
Matrix Transit Time		47.5	us/ft
Fluid Transit Time		189.0	us/ft
Formation Matrix		Limestone	
Drill Bit Size		7.875	in
Casing Diameter		5.500	in
Casing Thickness		0.250	in
Casing Correction (PHI N)		Disable	
Hole Substance		Fluid	
BHT Depth		5005.000	ft
Borehole Temperature		128.0	degF
Temperature Gradient		1.00	DFHF
Resistivity Of Mud		1.500	ohmm
U Fluid		0.398	
Grain Density Mineral 1		2.710	g/cc
Grain Density Mineral 2		2.644	g/cc
Grain Density Mineral 3		2.877	g/cc
U Mineral 1		13.770	
U Mineral 2		4.779	
U Mineral 3		8.997	
Resistivity Of Mud Temperature		86.00	degF
MSTNG Normal Correction		0.00	ohmm
MSTNG Inverse Correction		0.00	ohmm

* Calibration Summary *

Shop Calibration					
GRT-B					
Performed : 24-JUN-2019			Time : 12:20		
Sensor Suite : GR-GR5			ID : GRT-BC-038		
	Measured	Units	Calibrated	Units	
GR	Background	Jig	Jig		GRAPI
	36	266	160		

Shop Calibration					
CNT-AA					
Performed : 03-Jun-2019			Time : 11:01		
Sensor Suite : CALI-BCN			ID : NDT-AF-411		
	Jig - Measured		Jig - Calibrated	Units	
CL # 1	Ring#1	Ring#2	Ring#1	Ring#2	IN.
	7.5	12.5	6.0	12.0	

Performed : 12-FEB-2020			Time : 10:01		
Sensor Suite : BHC NEUT			ID : CNP-AE-41		
Source ID : N-1104					
	Tank	Verification	Units		
N/F	Measured	Calibrated	Jig		
Porosity	3.5474	3.6893	3.6873		%
	18.4	20.5	20.5		

Shop Calibration					
LDT-DF					
Performed : 21-DEC-2019			Time : 21:43		
Sensor Suite : CALI-LTH			ID : NDT-FA-404		
	Jig - Measured		Jig - Calibrated	Units	
CL # 1	Ring#1	Ring#2	Ring#1	Ring#2	IN.
	8.3	13.2	6.0	12.0	

Performed : 29-Jan-2020			Time : 14:42		
Sensor Suite : BHCPENLNG			ID : LDP-DA-062		
Source ID : 1637GW					
	Short Space				
	BKGD	Al	Mg	Al+Fe	Units
LSW1	59	960	1557	625	CPS
LSW2	61	1121	1778	816	CPS
LSW3	228	2554	4127	2191	CPS
LSW4	286	2191	3138	1951	CPS
LSW5	25	44	49	41	CPS
LSW6	79	82	79	83	CPS
LSW7	50	54	53	53	CPS
LSW8	1	3	4	3	CPS
QS	0.227	0.208	0.194	0.217	
PES			2.778	5.967	
SSDN		2.600	1.680		G/CC
	Long Space				
	BKGD	Al	Mg	Al+Fe	Units
LLW1	84	1100	4544	670	CPS
LLW2	94	1944	7684	1420	CPS
LLW3	352	3530	13460	3067	CPS
LLW4	463	1657	5105	1519	CPS
LLW5	52	64	102	63	CPS
LLW6	146	154	134	154	CPS
LLW7	95	101	92	101	CPS
LLW8	3	6	14	6	CPS
QL	0.213	0.209	0.187	0.205	
PEL			2.697	5.458	
LSDN		2.600	1.680		G/CC

Shop Calibration					
CST-AD					
Performed : 09-FEB-2020			Time : 05:45		
Sensor Suite : SON-ANA			ID : CST-AB-21		
	Transit Time				
T/R Pair	Measured		Calibrated	Units	
T1R1	205.0		208.5	uS	
T2R2	205.0		208.5	uS	
T1R2	326.3		322.5	uS	
T2R1	326.3		322.5	uS	
	Amplitude				
T/R Pair	Measured		Calibrated	Units	
T1R1	90.00		90.00	mV	
T2R2	90.00		90.00	mV	
T1R2	78.00		78.00	mV	
T2R1	78.00		78.00	mV	

T1R2	78.00	78.00	mV
T2R1	78.00	78.00	mV

Shop Calibration
MST-DA

Performed : 30-MAY-2013 Time : 14:43
Sensor Suite : CALI-MSN ID : MST-DA-36

CL # 1	Jig - Measured		Jig - Calibrated		Units
	Ring#1	Ring#2	Ring#1	Ring#2	
	6.1	12.1	6.0	12.0	IN.

Performed : 30-MAY-2013 Time : 14:44
Sensor Suite : MSTDA-NI ID : MST-DA-36

Internal

	Measured		Units	Calibrated		Units
	Zero	Reference		Zero	Reference	
INV-V	221.0	21282.7		0.00	1946.00	MV
NOR-V	164.0	21140.6		0.00	1546.00	MV
IN-C	157.3	21367.2		0.00	15.46	UA
INV-R					40.71	OHMM
NOR-R					55.11	OHMM

Performed : 30-MAY-2013 Time : 14:44
Sensor Suite : MSTDAMSF ID : MST-DA-36

Internal

	Measured		Units	Calibrated		Units
	Zero	Reference		Zero	Reference	
MSFC	150.0	58600.0		0.00	1522.00	UA
MSFB	32800.0	62500.0		0.00	1522.00	MA
MOM1	150.0	5950.0		0.00	1522.00	MV
MSFRA					43.30	OHMM

Shop Calibration
PIT-CA

Performed : 21-DEC-2019 Time : 21:46
Sensor Suite : P-IND-T ID : PIT-AC-043

Medium

	Measured		Calibrated		Units
	R	X	R	X	
Air	131492	129685	0.0	0.0	MMHOS
Zero	131066	131062	-18.1	59.6	MMHOS
Reference	244915	244454	4981.9	5059.6	MMHOS
Loop	130404	210498	3515.7	3611.2	MMHOS
Sonde Error			-0.5	-1.7	MMHOS
Cond			4981.9	5059.6	MMHOS

Deep

	Measured		Calibrated		Units
	R	X	R	X	
Air	131939	129230	0.0	-0.0	MMHOS
Zero	131079	131067	-15.6	35.3	MMHOS
Reference	220620	224092	1984.4	2035.3	MMHOS
Loop	129308	206166	1595.4	1712.8	MMHOS
Sonde Error			-0.6	-7.8	MMHOS
Cond			1984.4	2035.3	MMHOS

Temperature

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

Performed : 21-DEC-2019 Time : 21:46
Sensor Suite : SFL ID : PIT-AC-043

Internal

	Measured		Calibrated		Units
	Zero	Reference	Zero	Reference	
Im	32732.6	48929.1	0.0	7028.0	uA
Ib	32768.6	49680.1	0.0	1750.0	mA
MOM1	32722.0	56290.6	0.0	175.0	mV
Equivalent SFL				43.97	OHMM

Performed : 21-DEC-2019 Time : 21:47
Sensor Suite : P-SP ID : PIT-AC-043

Internal

	Measured		Calibrated		Units
	Zero	Reference	Zero	Reference	
	32774.5	58935.9	0.0	1000.0	mV

Performed : 21-DEC-2019
Sensor Suite : P-RMUD

Time : 21:47
ID : PIT-AC-043

	Internal				Units
	Measured		Calibrated		
	Zero	Reference	Zero	Reference	
Rmi	0.0	34825.0	0.0	290.6	mA
Rmv	0.0	34825.0	0.0	290.6	mV
Equivalent Rm				0.0871	OHMM



Company: MERIT ENERGY COMPANY
Well: CORA #1-16
Location: 414' FWL & 2002' FNL
Logged: 02-28-2020
K.B. Elev: 2875.0 Ft