

HALLIBURTON

**SPECTRAL DENSITY
NEUTRON POROSITY
GAMMA RAY CALIPER LOG
SCALE 1:200**

COMPANY		HVC		HVC	
WELL		MSD-GT-01-P		MSD-GT-01-P	
FIELD/BLOCK		MAASDIJK WESTLAND		MAASDIJK WESTLAND	
COUNTRY		THE NETHERLANDS		THE NETHERLANDS	
RIG		KC-DEUTAG		KC-DEUTAG	
Permanent Datum	GL	API No.	N/A	Other Services:	
Log measured from	RT	Location	Longitude: 4° 12' 03.360" E	XRMi-WSTT	
Drilling measured from	RT	Elev.	1.40 m	Elev.: K.B.	1.074 m
Date	29-dec-22	Rge.	N/A	D.F.	1.074 m
Run No.	1	G.L.		G.L.	1.40 m
Depth - Driller	3305.00 m				
Depth - Logger	3309.00 m				
Bottom - Logged Interval	3382.0 m				
Top - Logged Interval	1100.0 m				
Casing - Driller	13.375 in	@	1152.75 m	@	@
Casing - Logger	1150.00 m				
Bit Size	12.250 in		17.500 in	@	1152.75 m
Type Fluid in Hole	Oil Based				
Density	1.16 g/cc		76.00 s/qt		
pH	Fluid Loss				
Source of Sample					
Rm @ Meas. Temperature		@		@	@
Rmt @ Meas. Temperature		@		@	@
Rmc @ Meas. Temperature		@		@	@
Source Rmt	Rmc				
Rm @ BHT		@		@	@
Time Since Circulation					
Time on Bottom	30-Dec-22 00:43				
Max. Rec. Temperature	98.20 degC	@	3309.00 m	@	@
Equipment	Location	12102977	MAASDIJK		
Recorded By		Jatincler Kumar			
Witnessed By		REGIE			

Fold here

Sales Order Number: N/A	API No.: N/A	PGM Version: WL INSITE R6.6.7 (Build 8)
DIRECTIONAL INFORMATION		
Maximum Deviation	42.00 deg	@ 2714.00 m
KOP @ 911.00 m		
Remarks: 1) POSITIVE DEPTH CONTROL IS USED FOR RECORDING THE LOG 2) TOOL STRING RUN AS PER THE ATTACHED TOOL STRING CONFIGURATION 3) AHV AND BHV CALCULATIONS ARE DONE ASSUMING 9.625 IN CASING. EACH MEDIUM TICK REPRESENT 1 M3 AND MAJOR TICK PRESENT 10M3 4) ALL LOGS , SCALES AND PRESENTATIONS ARE AS PER CUSTOMER INSTRUCTION. 5) THE ENVIRONMENTAL CORRECTION AS PER THE PARAMETER REPORT HAS BEEN APPLIED TO LOG 6) CALIPER AND SONIC CASING CHECK ARE PRESENTED AS A PART OF MAIN PASS. 7) THE TOTAL BOREHOLE VOLUME IS 5720 CUBIC FT AND TOTAL ANNULAR VOLUME IS CUBIC METER 8) THE LOG IS A FIELD PRINT AND NEED PROCESSING FROM FRS .		

HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

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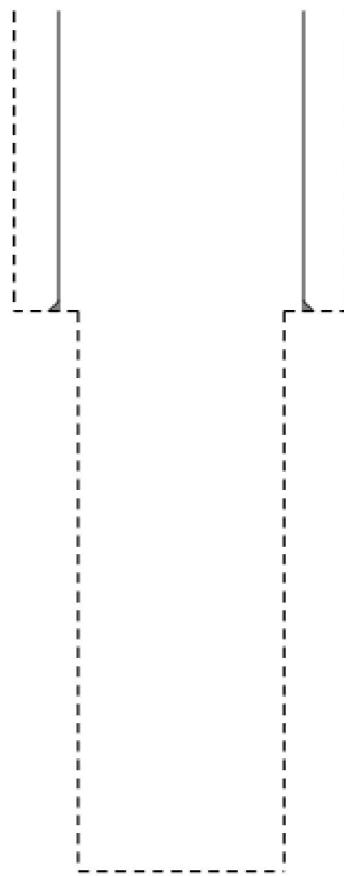
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WELL DIAGRAM REPORT

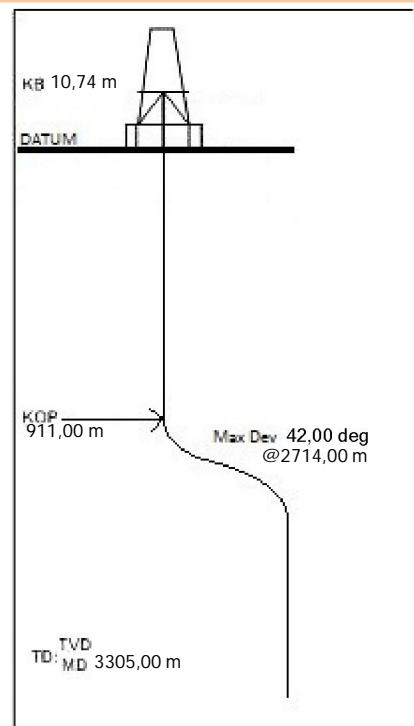
Customer: HVC
Well: MSD-GT-01-P
Field: MAASDIJK WESTLAND
Datum: GL

Location: Longitude: $4^{\circ} 12' 03.360''$ E
 Latitude: $51^{\circ} 57' 55.600''$ N

Casing Size



Bit Size



Data: MSD-GT-01-P

Date: 30-Dec-22 09:13:17

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TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
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42.81 m

RWCH-11622044
135.00 lbs

Weak Point Solid-
12345678
0.01 lbs

MCSA-11569469
70.00 lbs

HFWS Caged Standoff-
12345680
7.94 lbs

MCEJ-13216557
287.00 lbs

Flex Joint-10937855
140.00 lbs

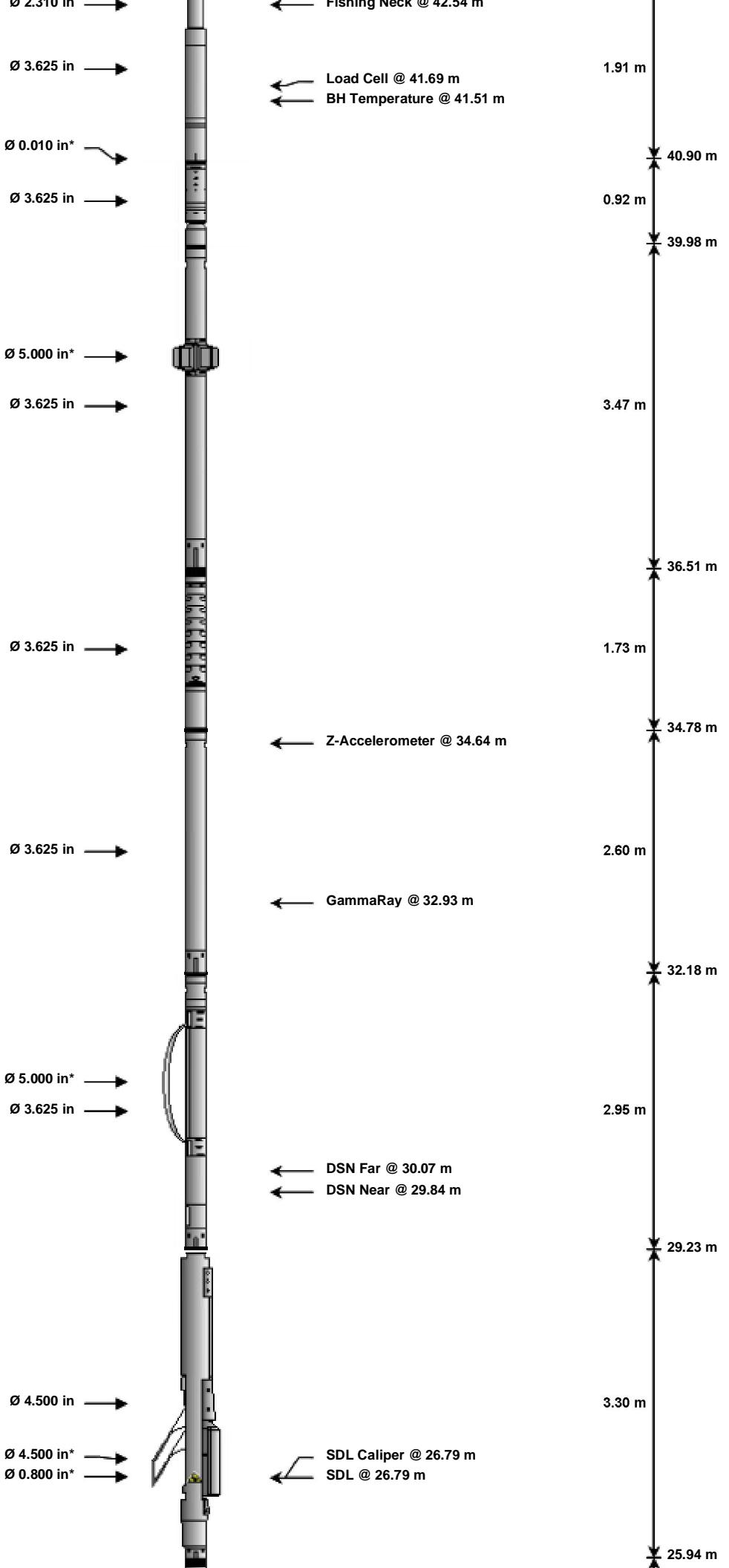
GTET-11405268
165.00 lbs

DSNT-11732146
174.00 lbs

SDLT-10998370
360.00 lbs

DSN Decentralizer-
11732146
6.60 lbs

SDLT Pad-11732135
65.00 lbs
RAM-Cs137-00005963
1.00 lbs



IQ Flex-12021562
140.00 lbs

\varnothing 3.625 in →

1.73 m

XRMI-I Instrument-
11670577
290.00 lbs

\varnothing 4.500 in →

4.36 m

XRMI-I Mandrel-
10720056
206.00 lbs

\varnothing 5.000 in →

3.40 m

\varnothing 4.500 in →

Pads 2, 4, 6 @ 17.29 m
Pads 1, 3, 5 @ 17.22 m

16.45 m

Centralizer 25-12345679
8.00 lbs

\varnothing 4.000 in* →

2.54 m

WAVE Upper
Electronics-
11442655
151.50 lbs

ALAT Standoff OD 11-
12345678
11.60 lbs

\varnothing 3.625 in →

\varnothing 11.000 in* →

13.91 m

WAVE Trans-
Isolator - Std-
11442656
277.00 lbs

\varnothing 3.625 in →

3.32 m

WAVE Receivers-
11443508
135.00 lbs

\varnothing 3.625 in →

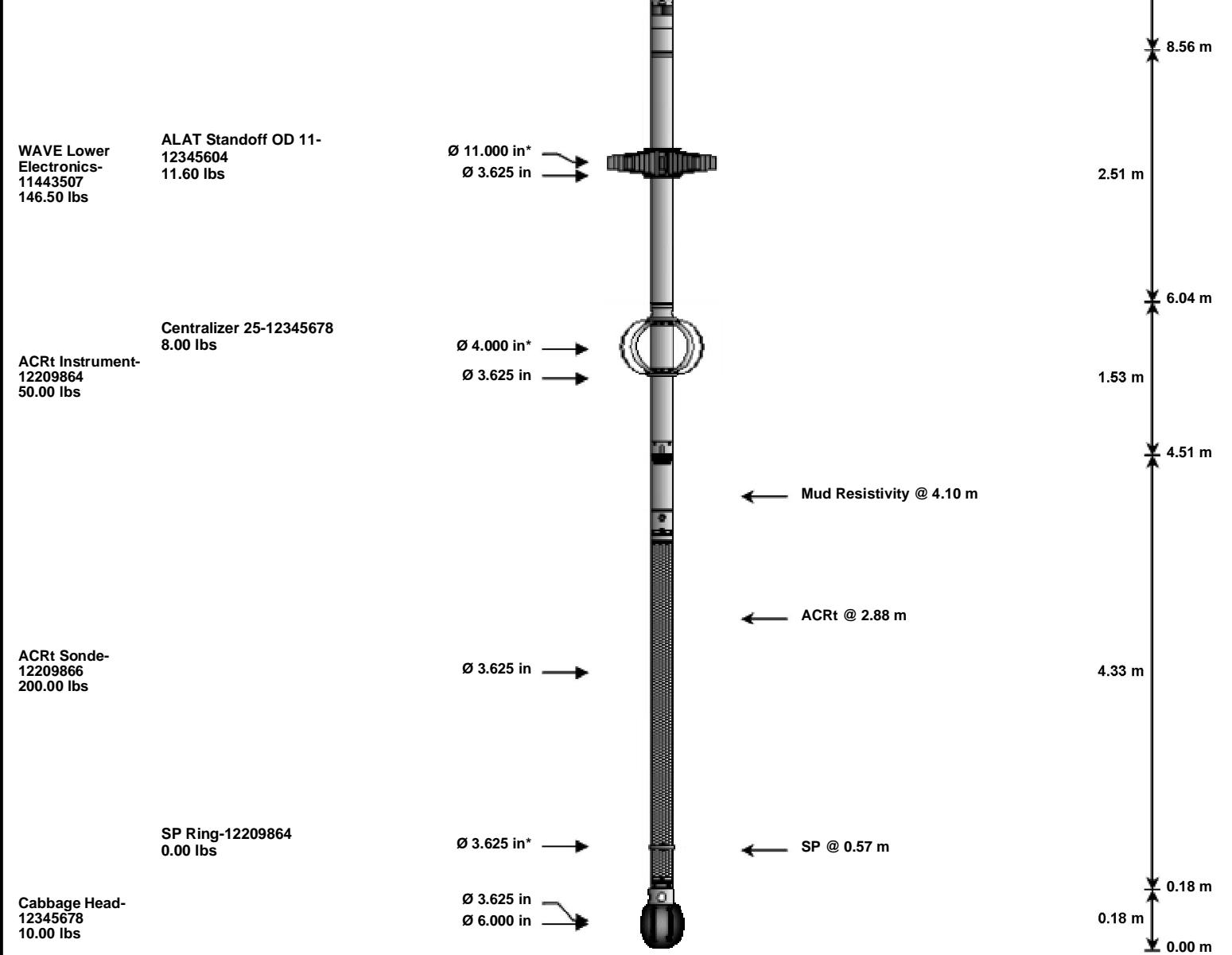
2.03 m

← Sonic Delay @ 9.55 m

10.59 m

24.21 m

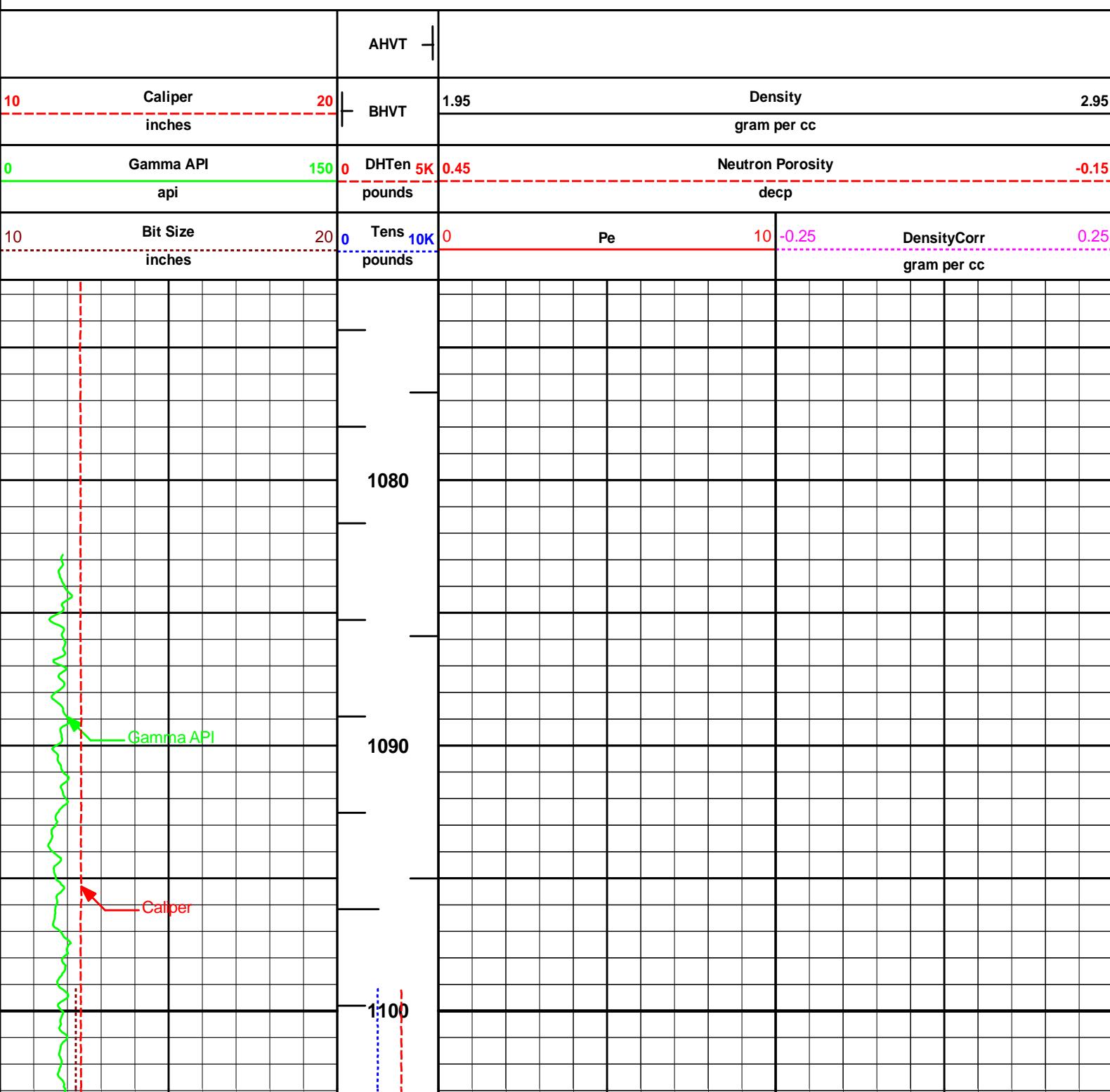
19.85 m

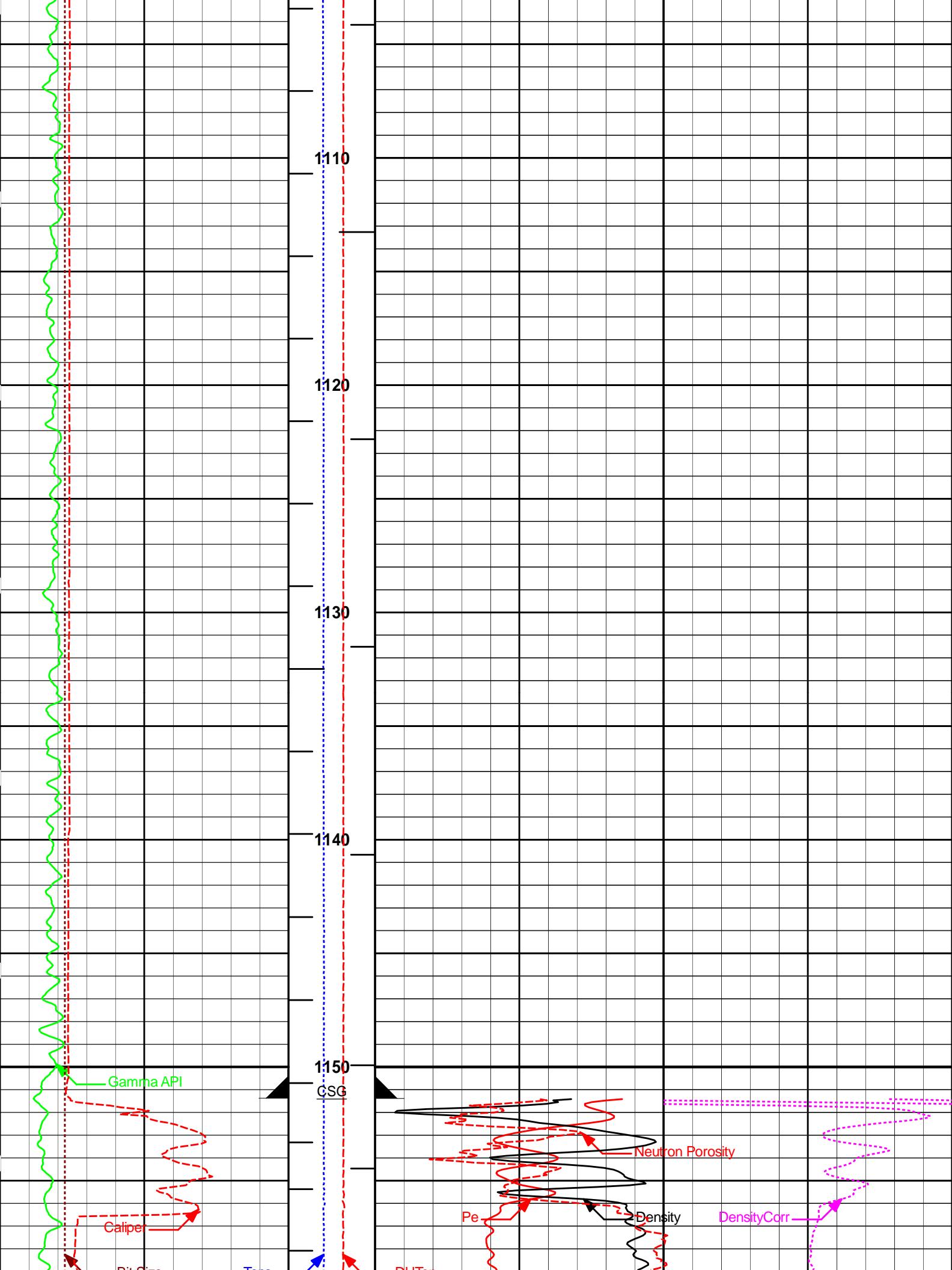


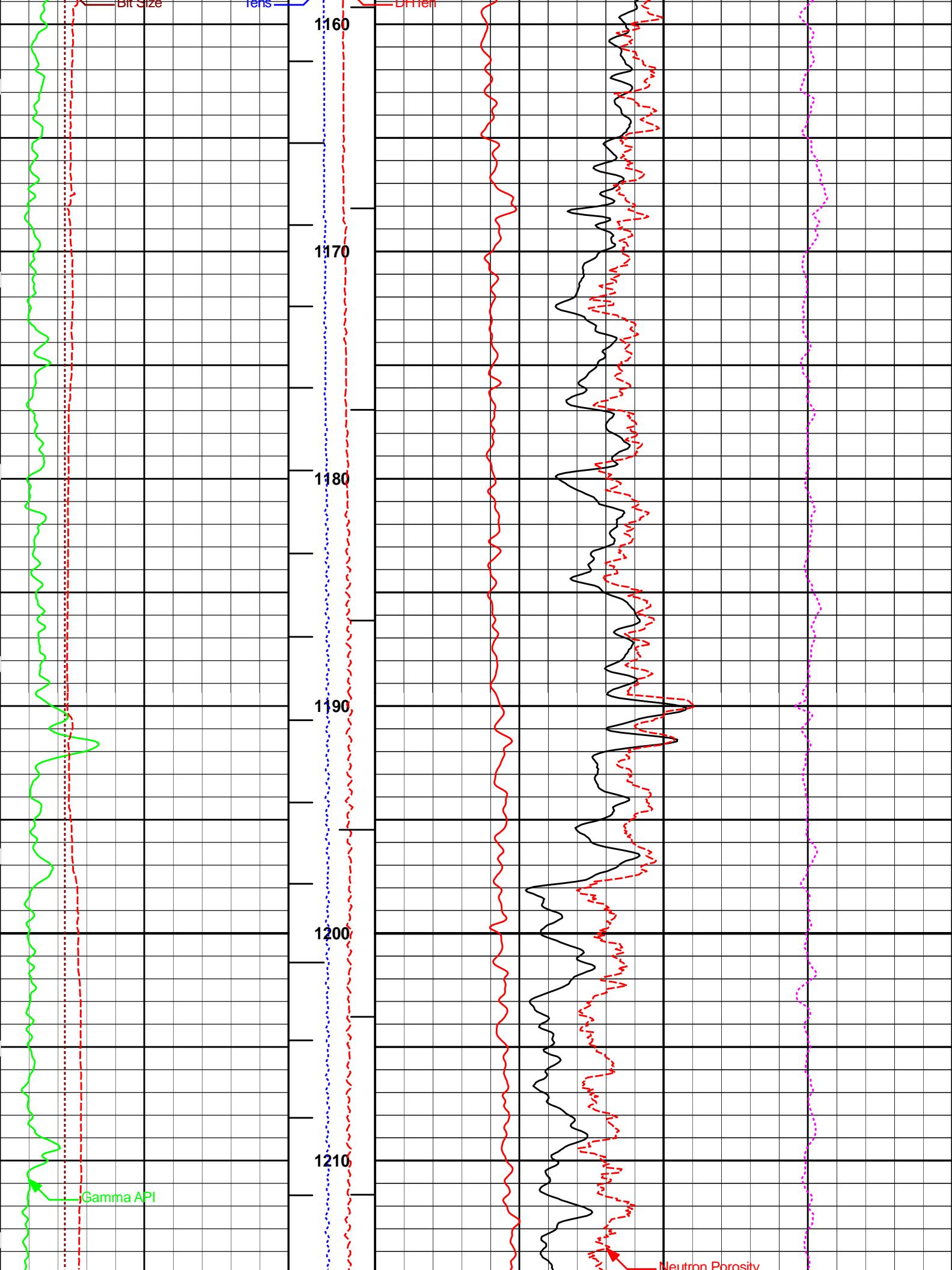
Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (m)	Accumulated Length (m)	Max.Log. Speed (mpm)	
RWCH	Releasable Wireline Cable Head	11622044	135.00	1.91	40.90	91.44	
WPSS	Weak Point Solid	12345678	0.01	0.00	*	40.90	91.44
MCSA	Multi Conductor Swivel Assembly	11569469	70.00	0.92	39.98	91.44	
MCEJ	Multi Conductor E-Line Jars	13216557	287.00	3.47	36.51	91.44	
HFCS	Hostile Full Wave Sonic Caged Metal and Rubber Standoff	12345680	7.94	0.41	*	38.58	91.44
FLEX	Flex Joint	10937855	140.00	1.73	34.78	91.44	
GTET	Gamma Telemetry Tool	11405268	165.00	2.60	32.18	18.29	
DSNT	Dual Spaced Neutron	11732146	174.00	2.95	29.23	18.29	
DCNT	DSN Decentralizer	11732146	6.60	1.56	*	30.25	91.44
SDLT	Spectral Density Tool	10998370	360.00	3.30	25.94	18.29	
SDLP	Density Insite Pad	11732135	65.00	0.78	*	26.61	18.29
Cs137	Logging Source, SDLT-I, 1.78 Ci - Cs137	00005963	1.00	0.24	*	26.68	91.44
IQF	IQ Flex tool	12021562	140.00	1.73	24.21	91.44	
XRMI	XRMI Navigation - Insite	11670577	290.00	4.36	19.85	9.14	
XRMI-I	XRMI Imager - Insite	10720056	206.00	3.40	16.45	9.14	
WSTT	WAVE Transmitter Electronics - Insite	11442655	151.50	2.54	13.91	30.48	
ALATS	Array Laterolog Tool OD 11 Standoff	12345678	11.60	0.30	*	14.88	18.29
OBCEN	Centralizer - 25 in. Overbody	12345679	8.00	0.63	*	15.61	91.44
WTIS	WAVE Standard Transmitter - Standard Isolator	11442656	277.00	3.32	10.59	30.48	
WSTT	WAVE Receiver Section - Offset Dipole	11443508	135.00	2.03	8.56	9.14	
WSTT	WAVE Lower Electronics - Insite	11443507	146.50	2.51	6.04	30.48	
ALATS	Array Laterolog Tool OD 11 Standoff	12345604	11.60	0.30	*	7.29	18.29
ACRt	Array Compensated True Resistivity Instrument Section	12209864	50.00	1.53	4.51	36.58	
OBCEN	Centralizer - 25 in. Overbody	12345678	8.00	0.63	*	5.25	91.44
ACRt	Array Compensated True Resistivity Sonde Section	12209866	200.00	4.33	0.18	36.58	
SP	SP Ring	12209864	0.00	0.08	*	0.57	91.44

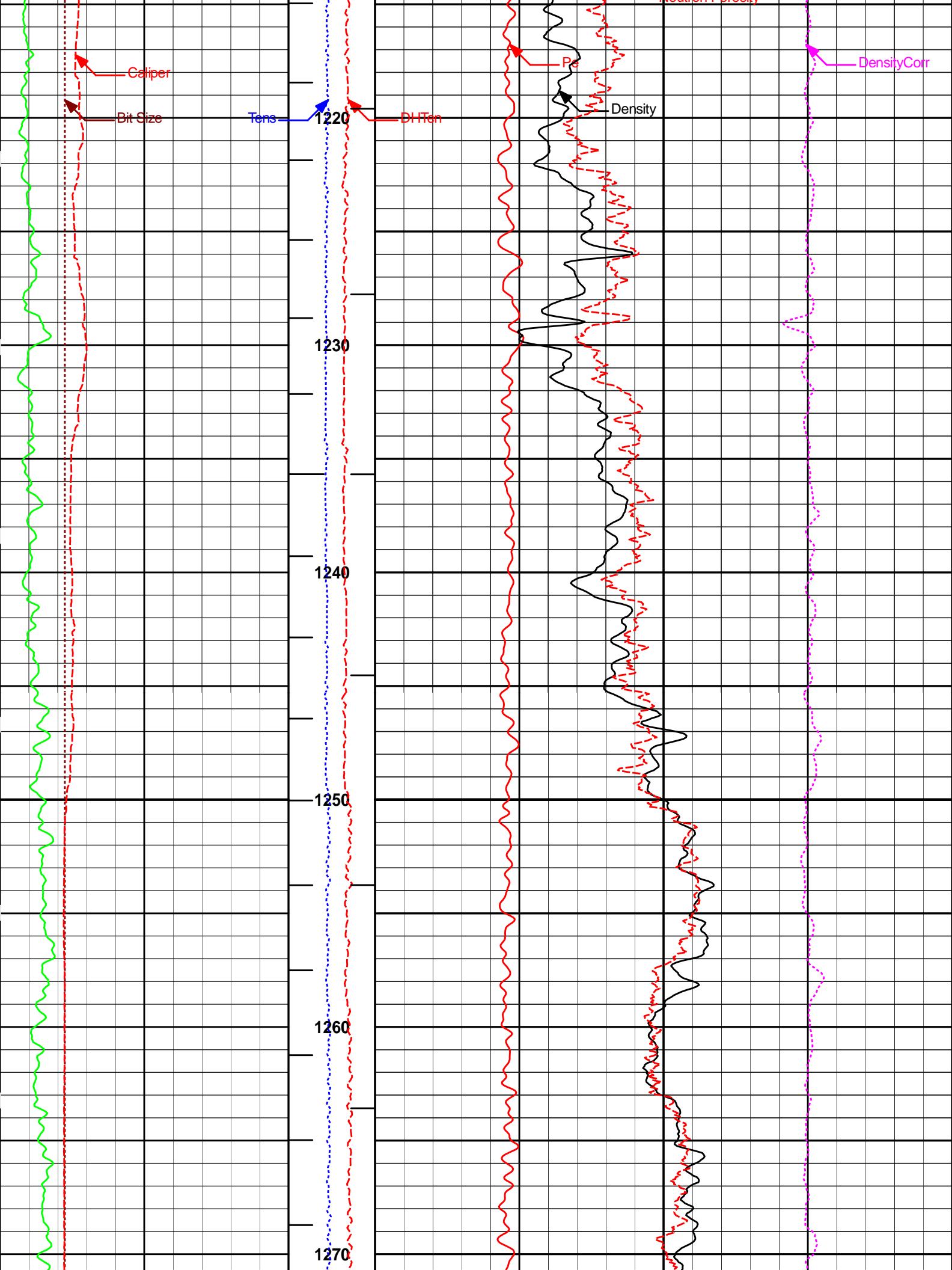
CBHD	Cabbage Head	12345678	10.00	0.18	0.00	91.44
Total			3,056.75	42.81		
* Not included in Total Length and Length Accumulation.						
Data: MSD-GT-01-P\0001 HVC-GTET-DSLT-DSNT-FLEX-XRMI-WSTT\IDLE				Date: 30-Dec-22 00:53:57		

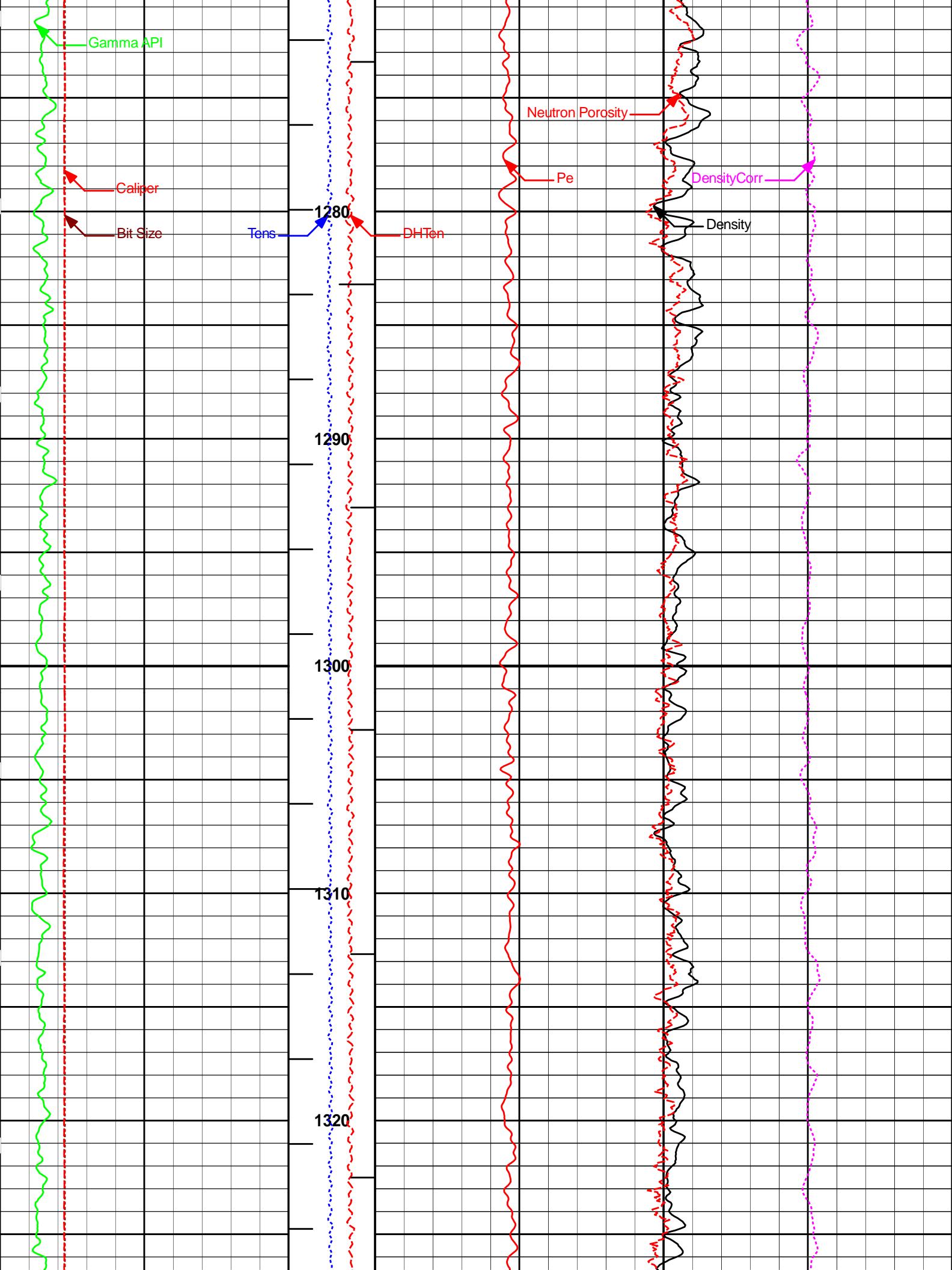
MAIN PASS SCALE 1:200

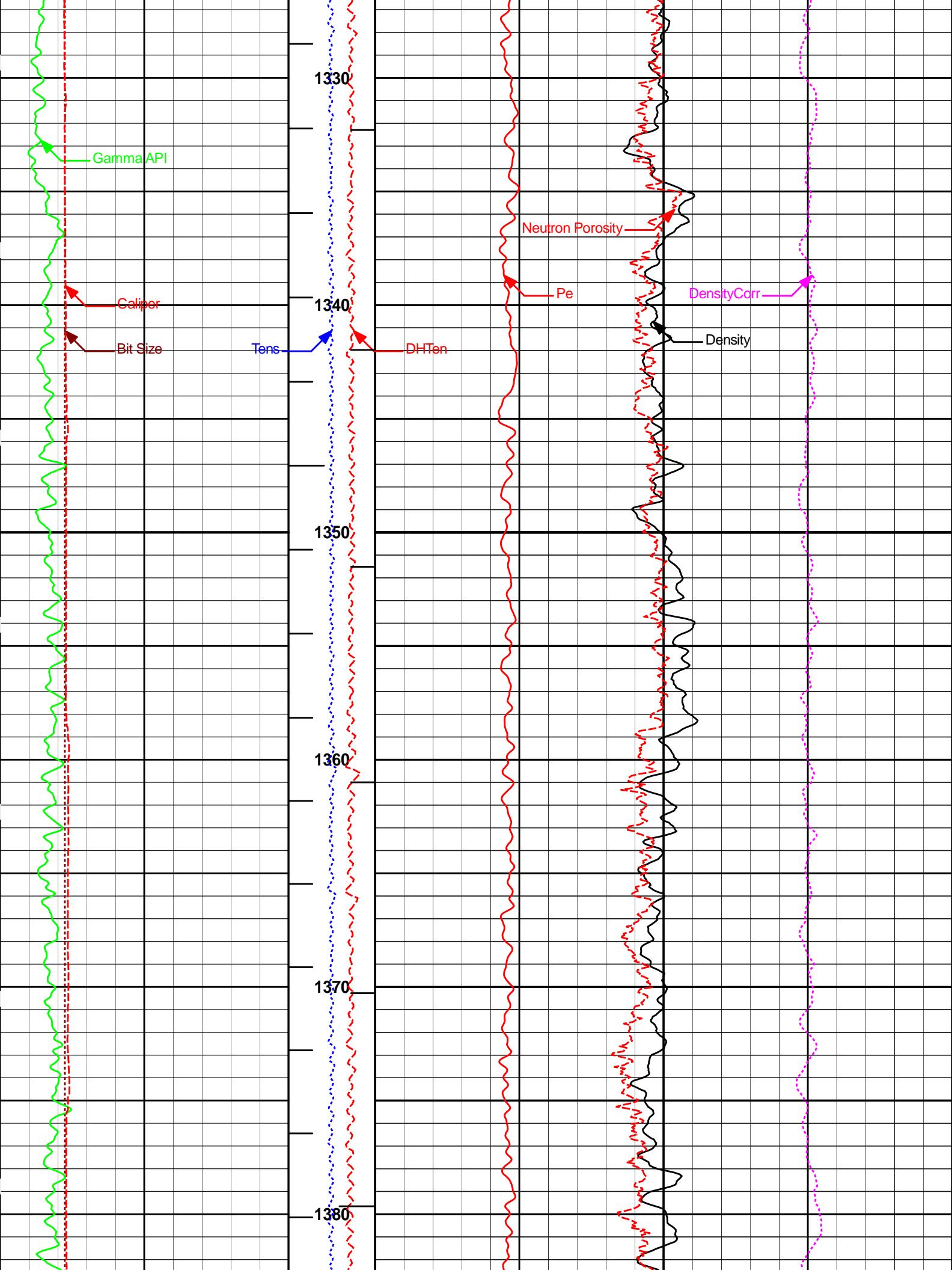


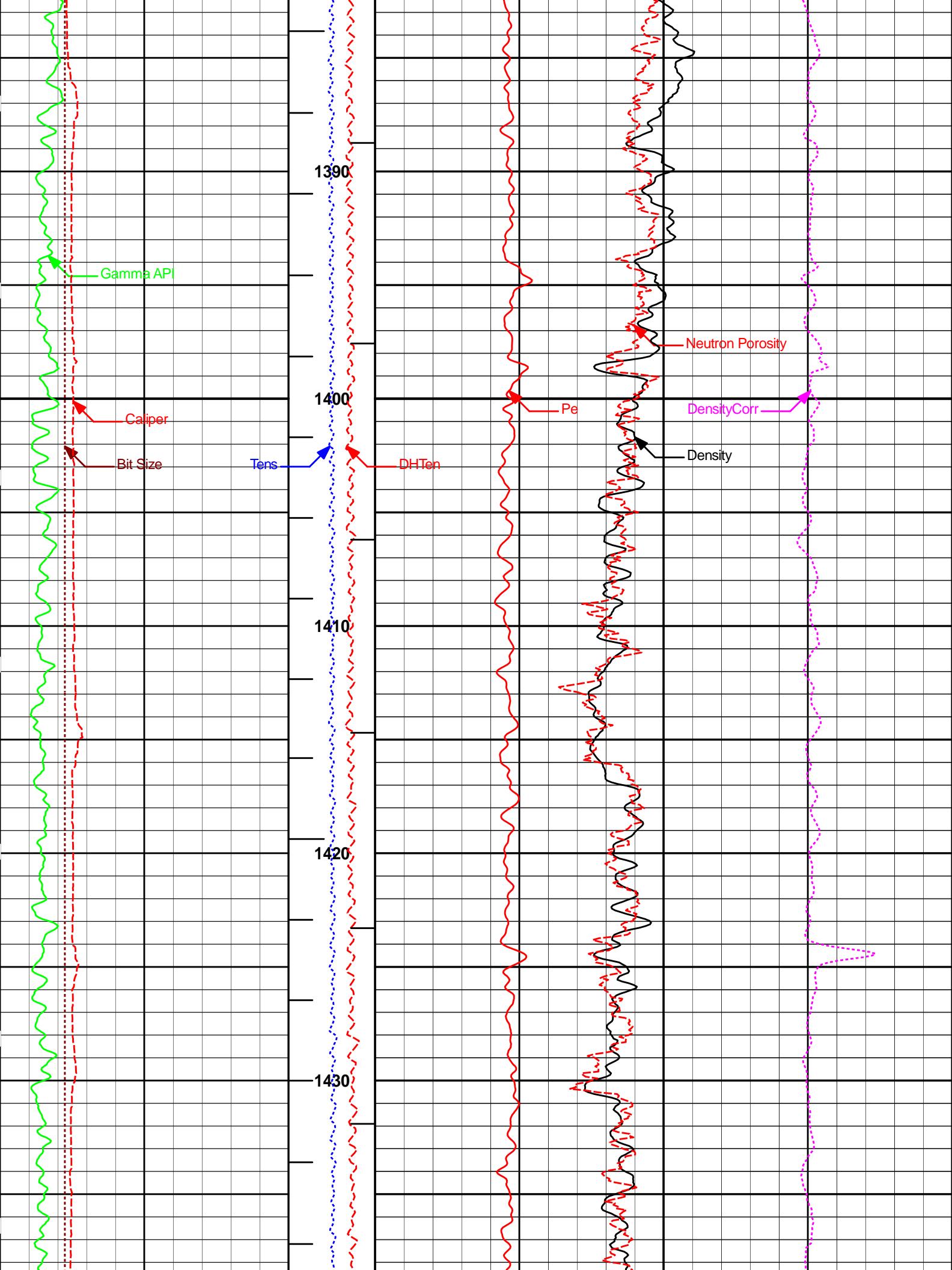


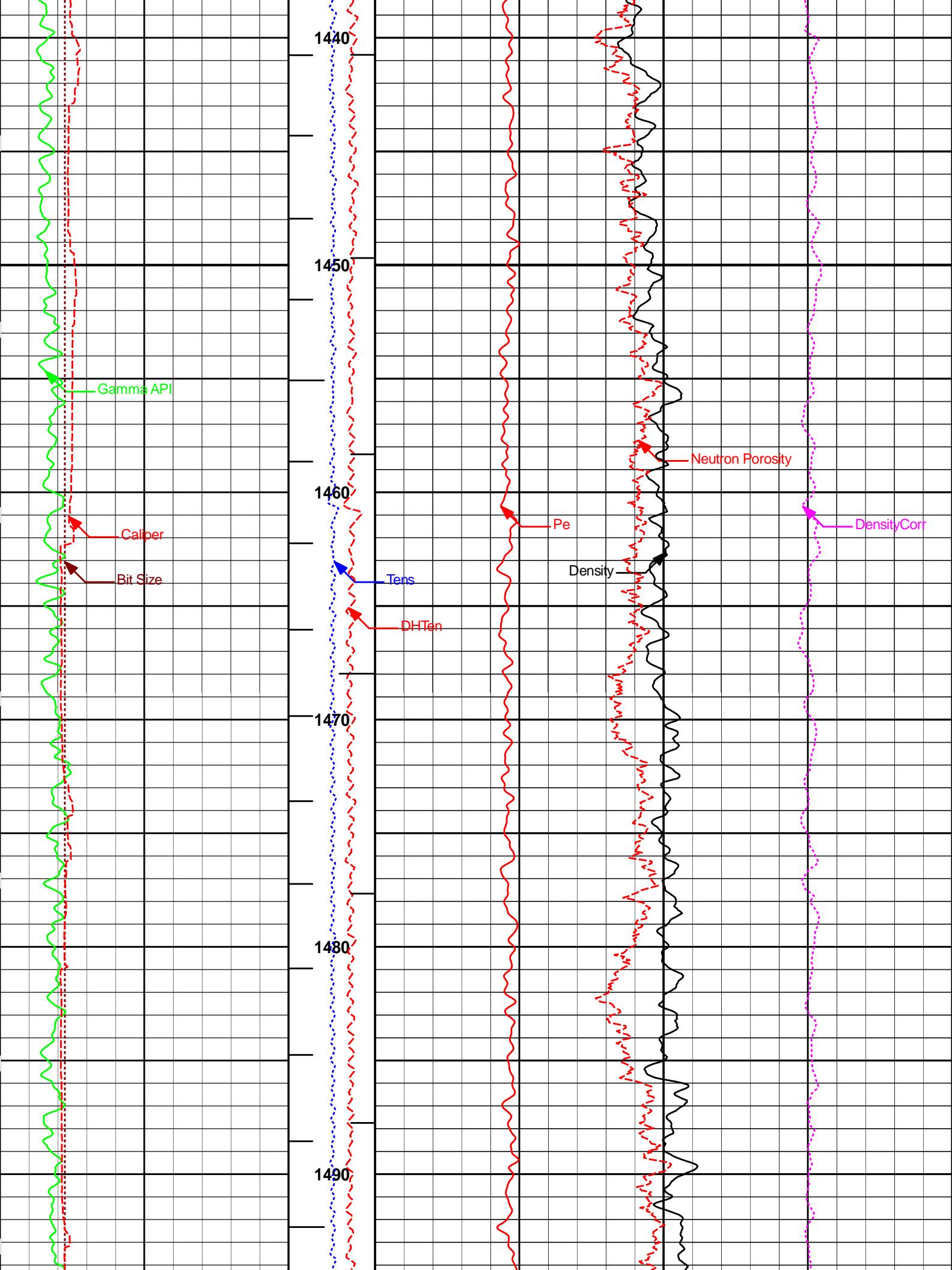


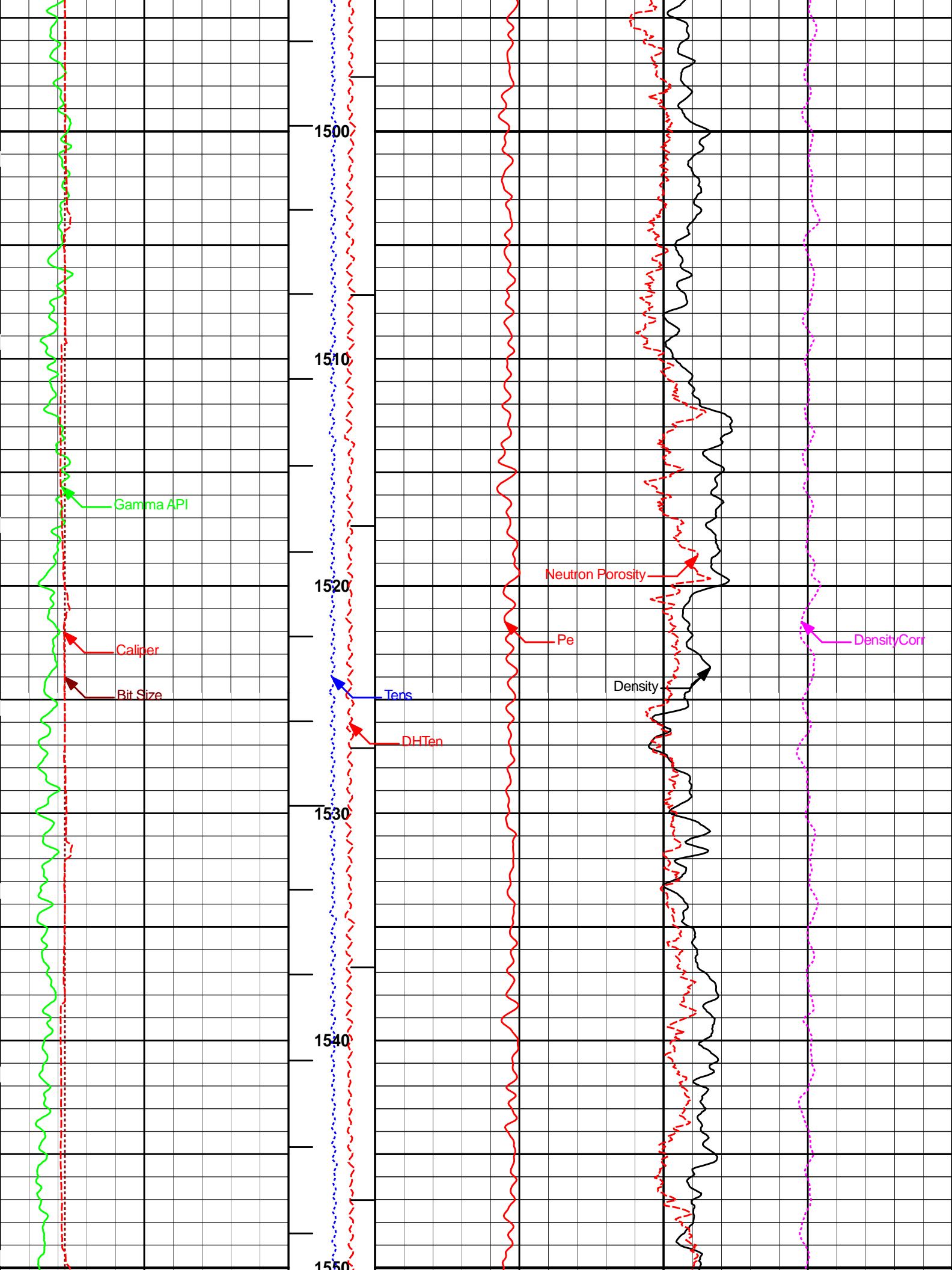


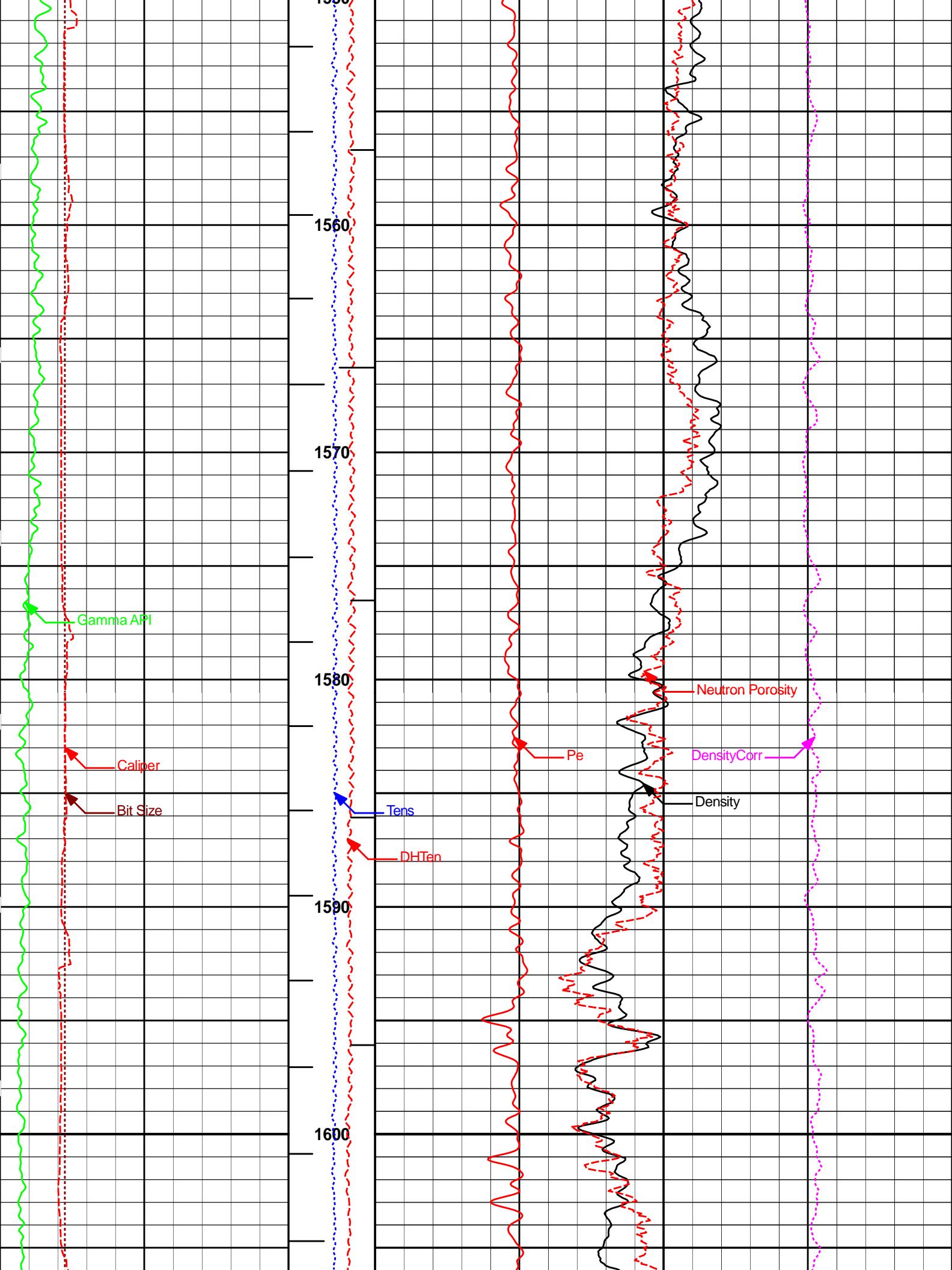


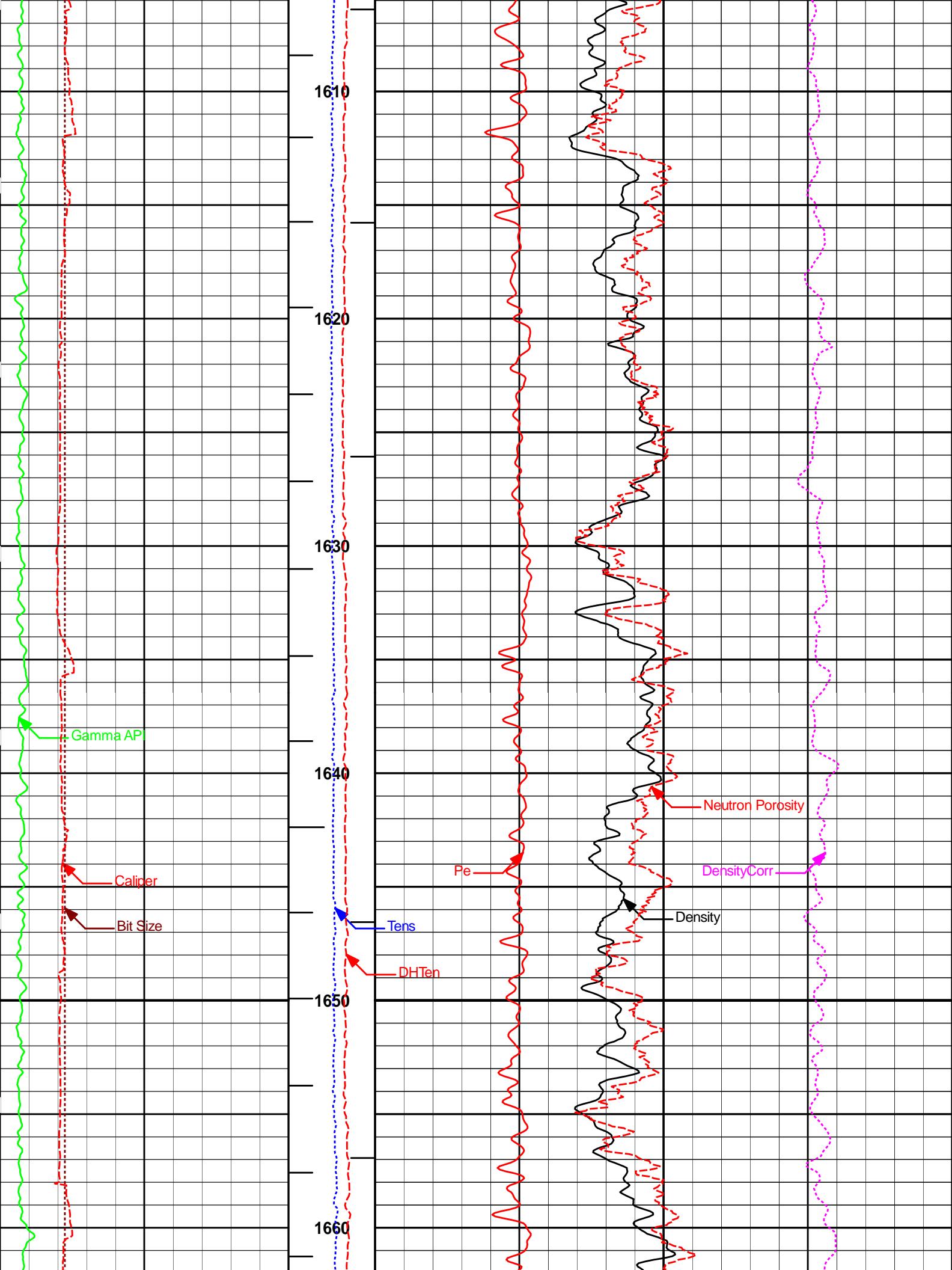


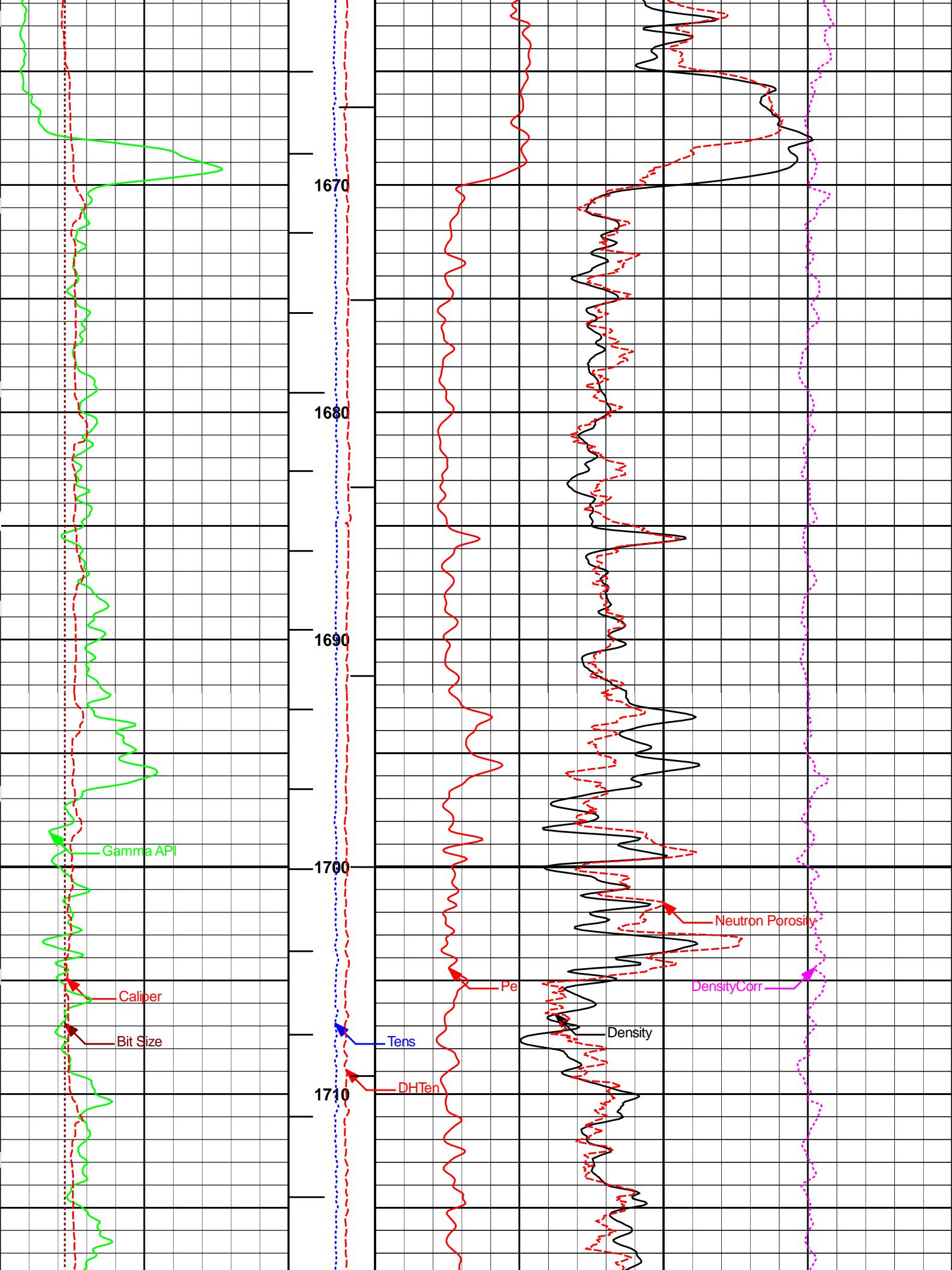


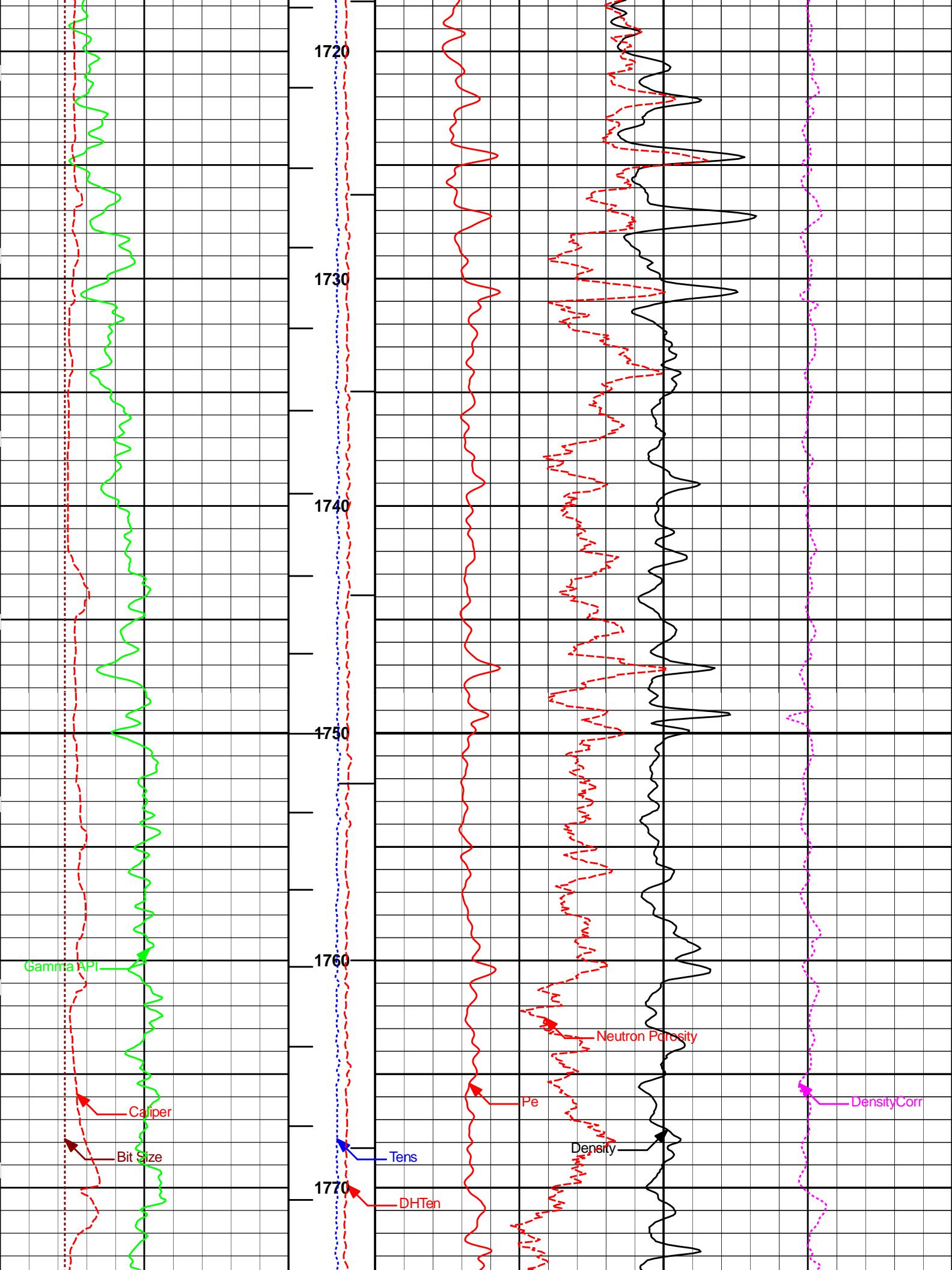


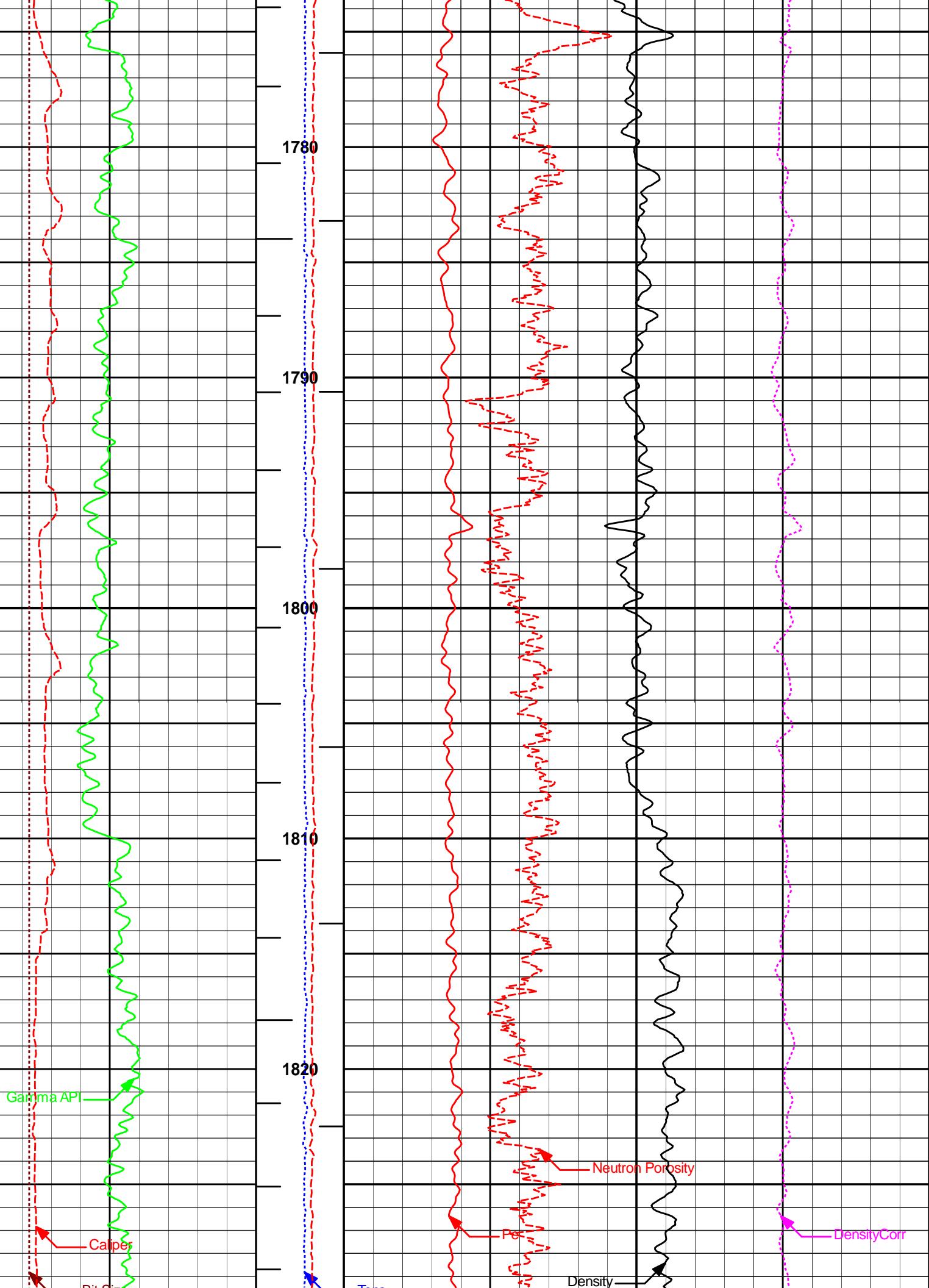


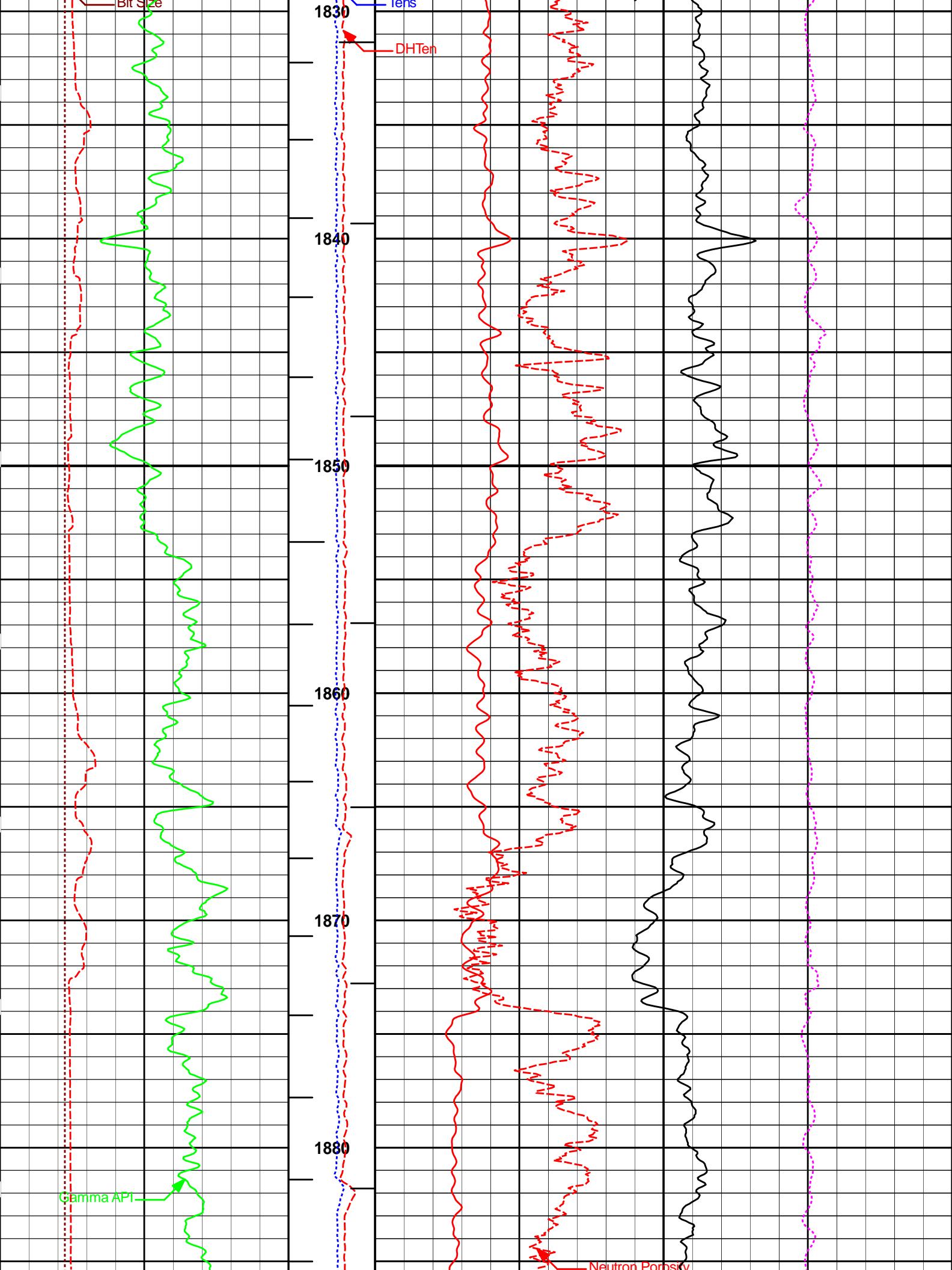


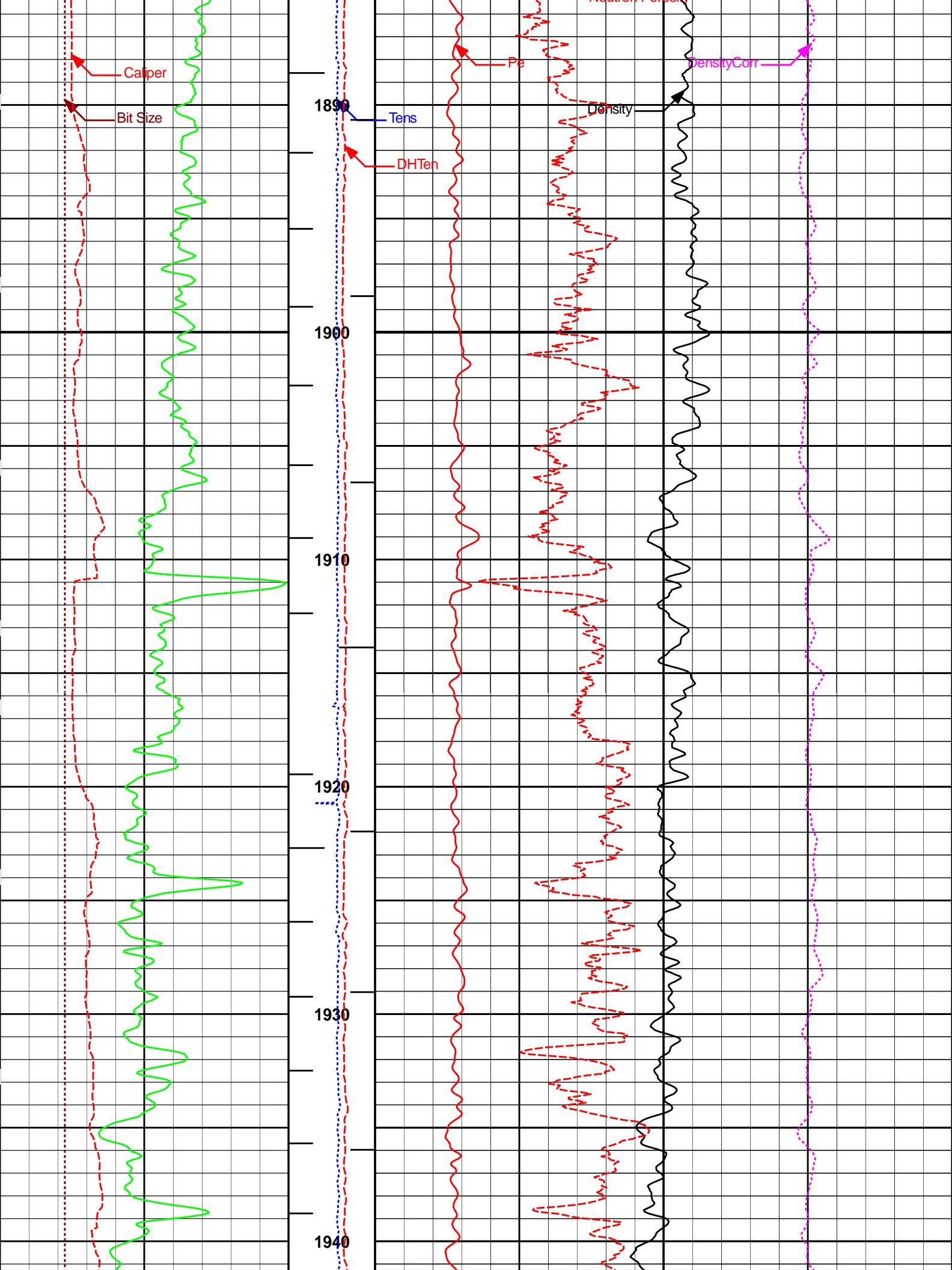


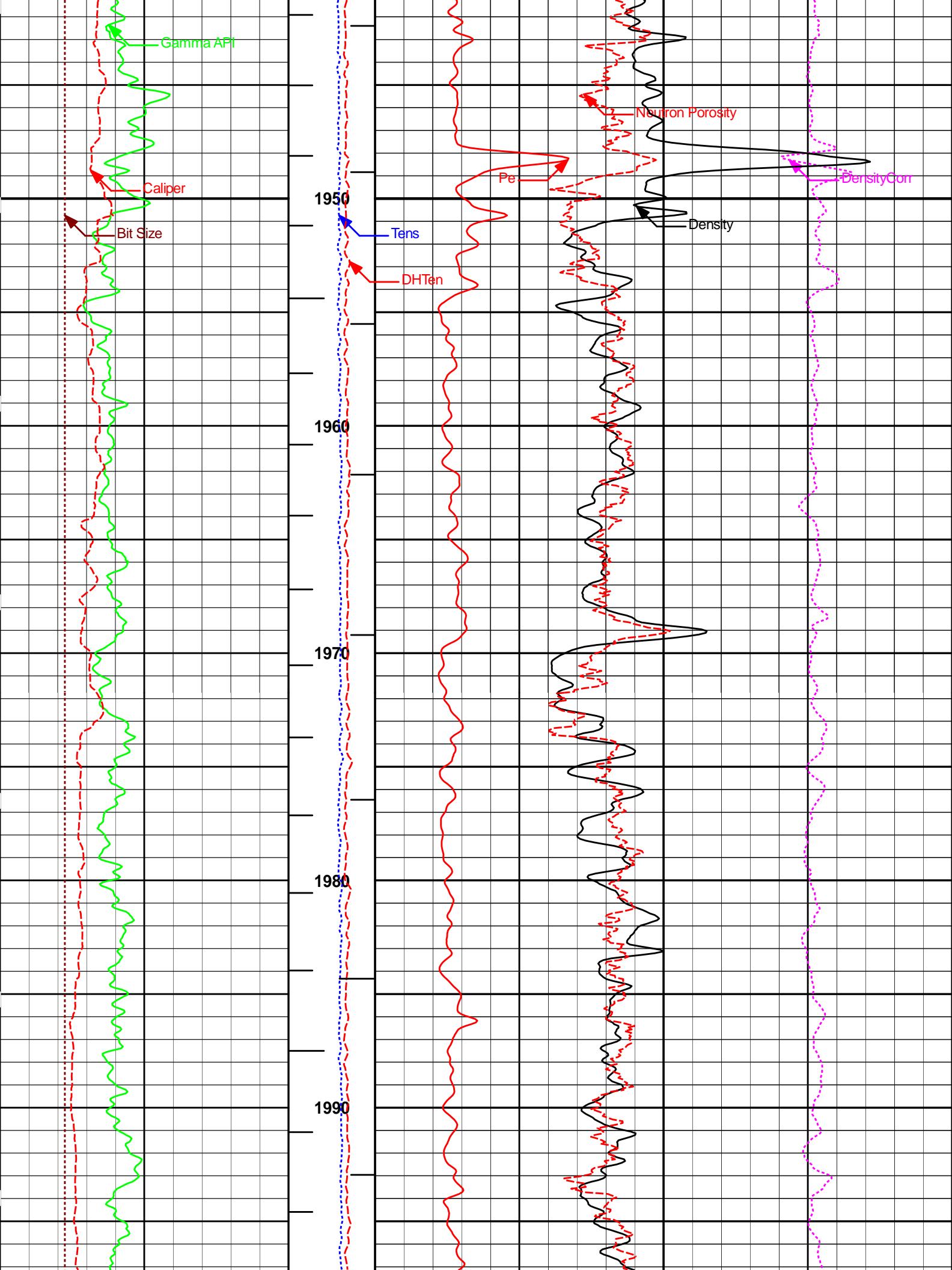


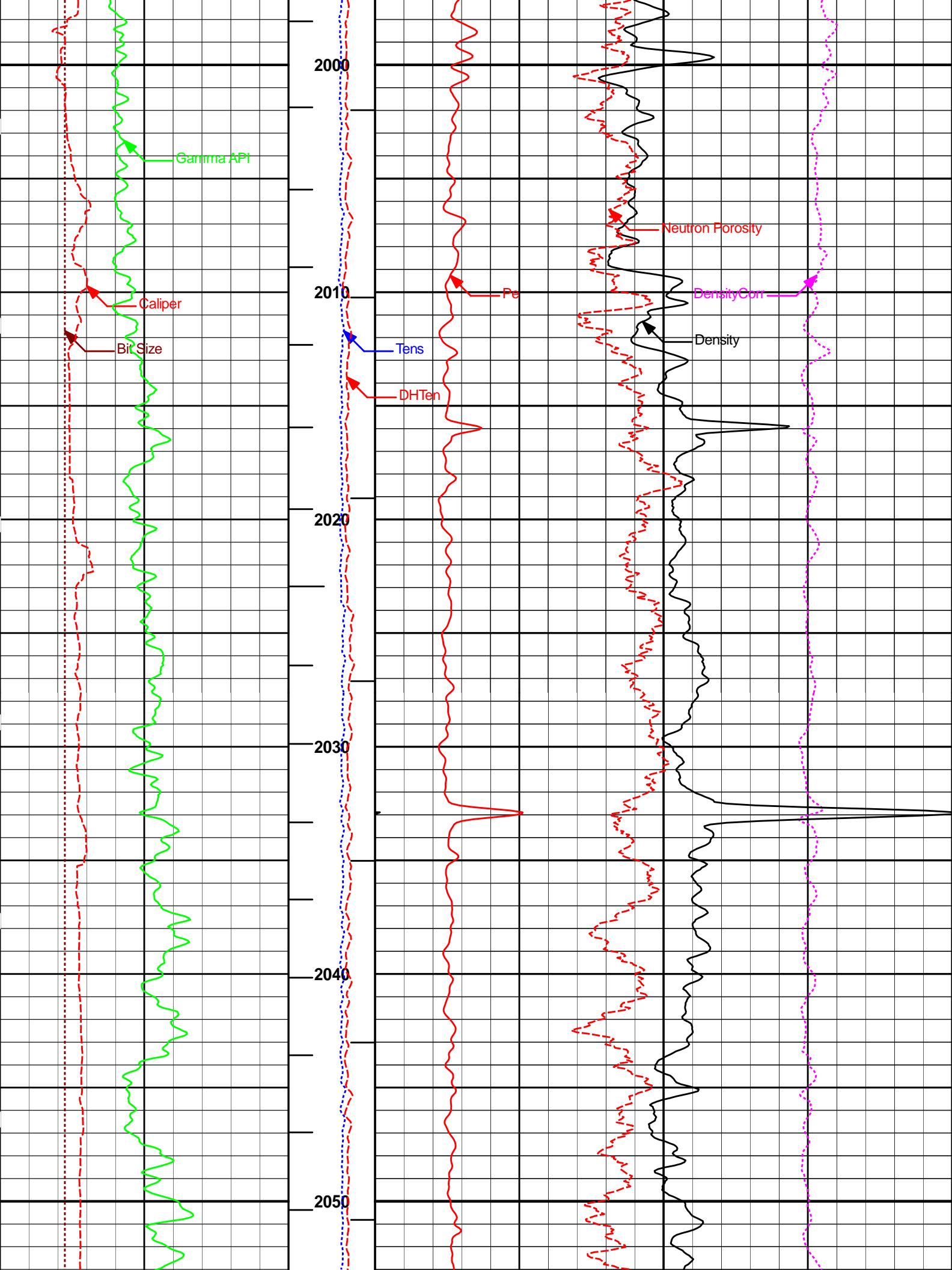


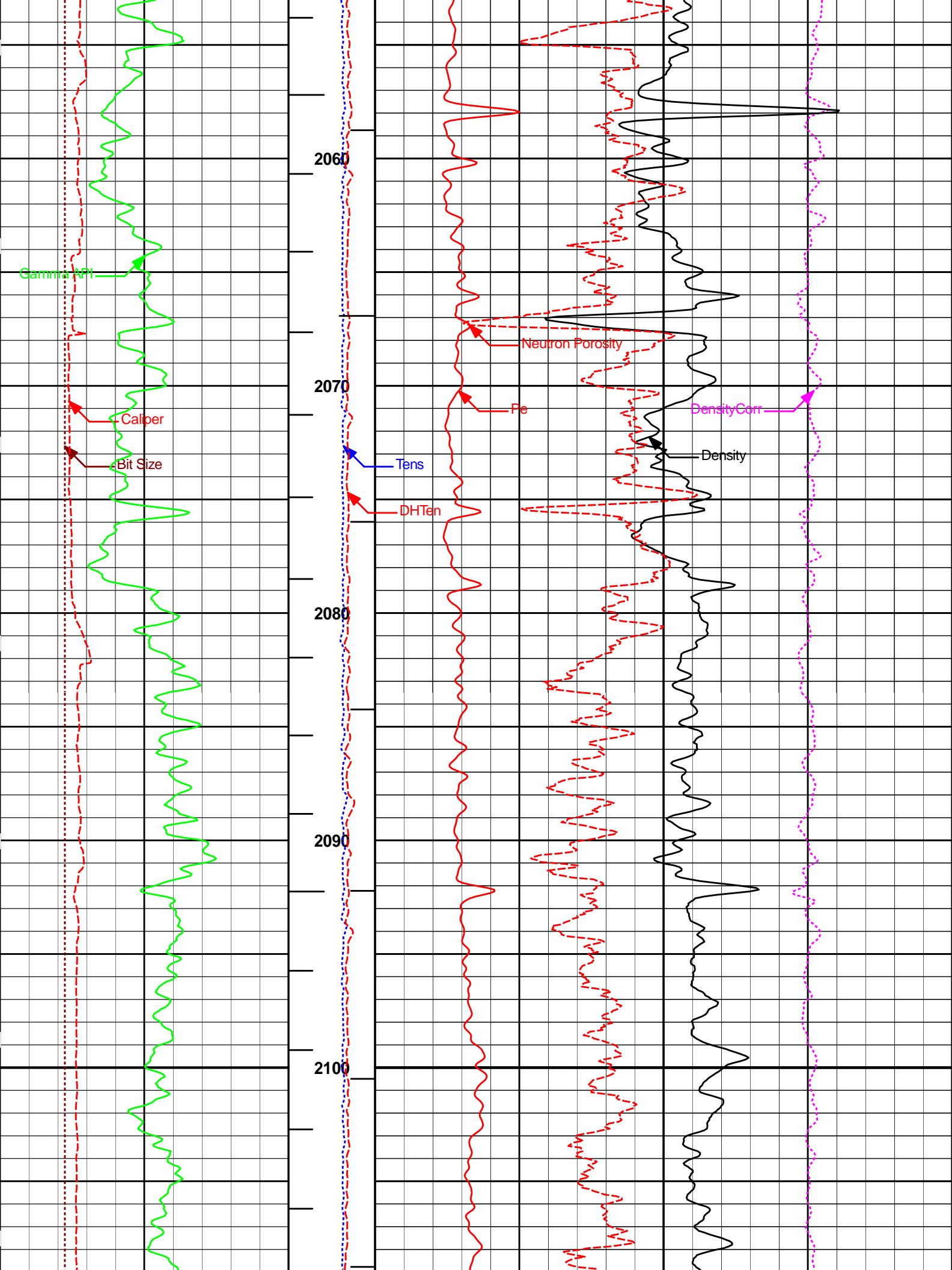


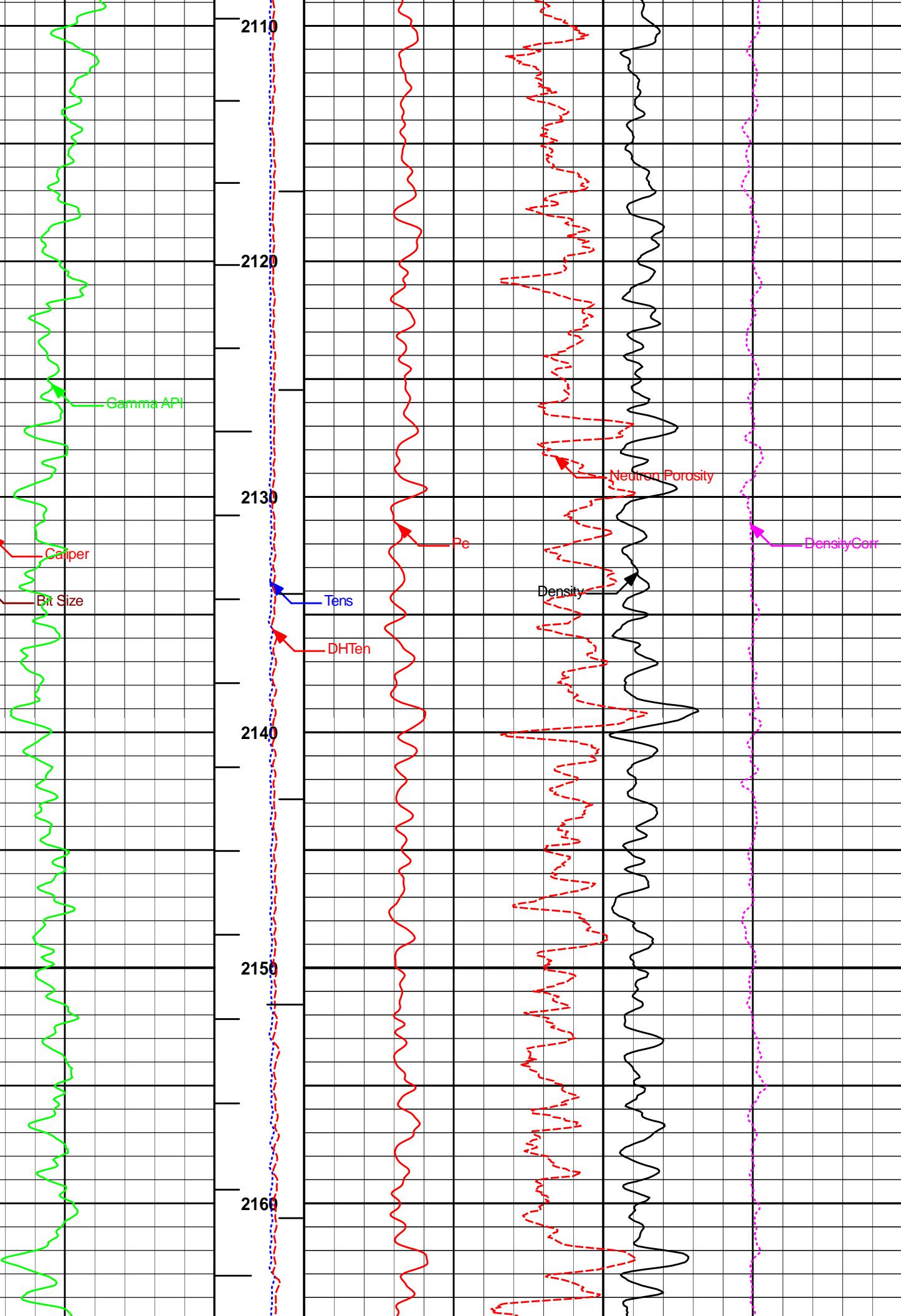


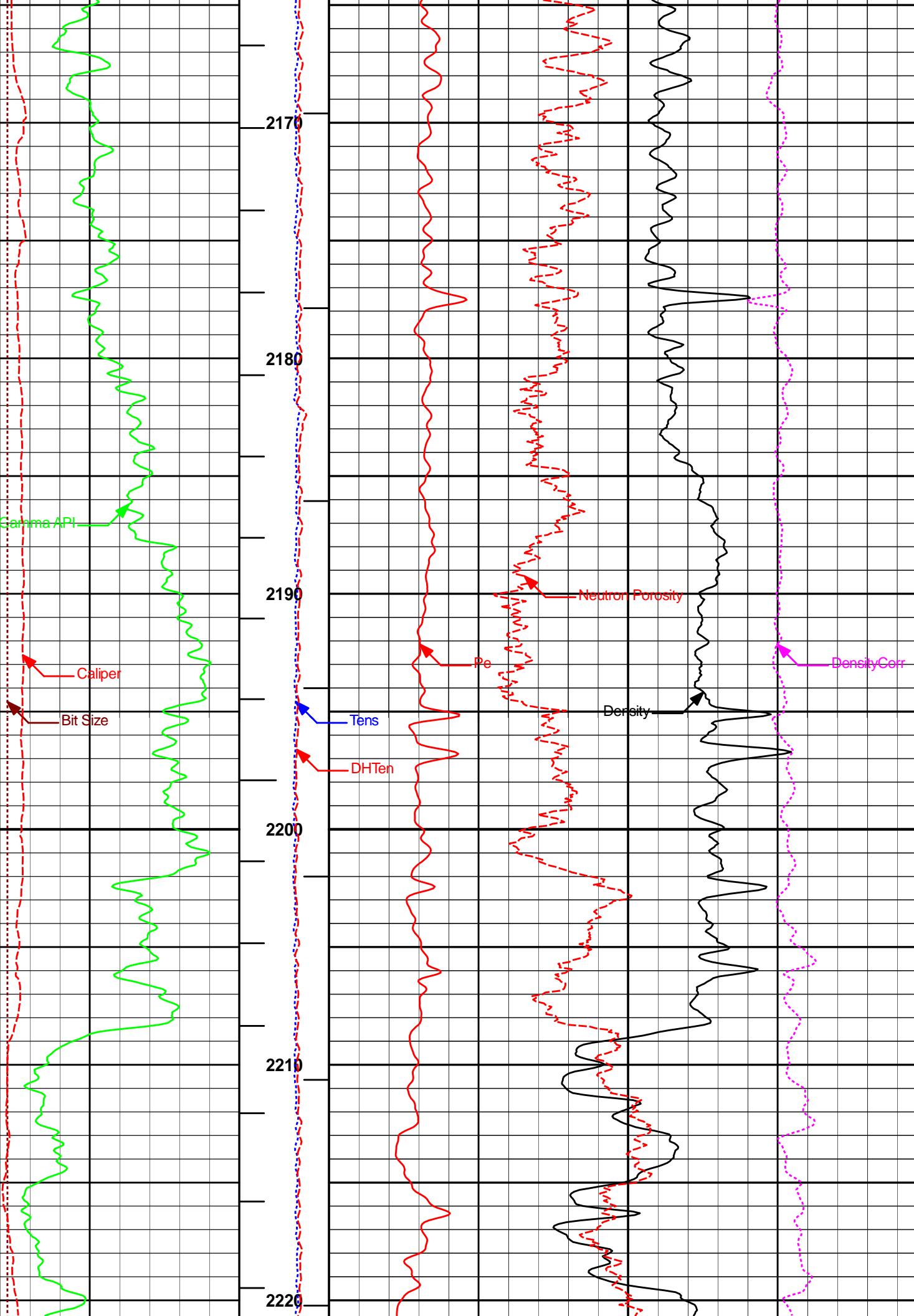


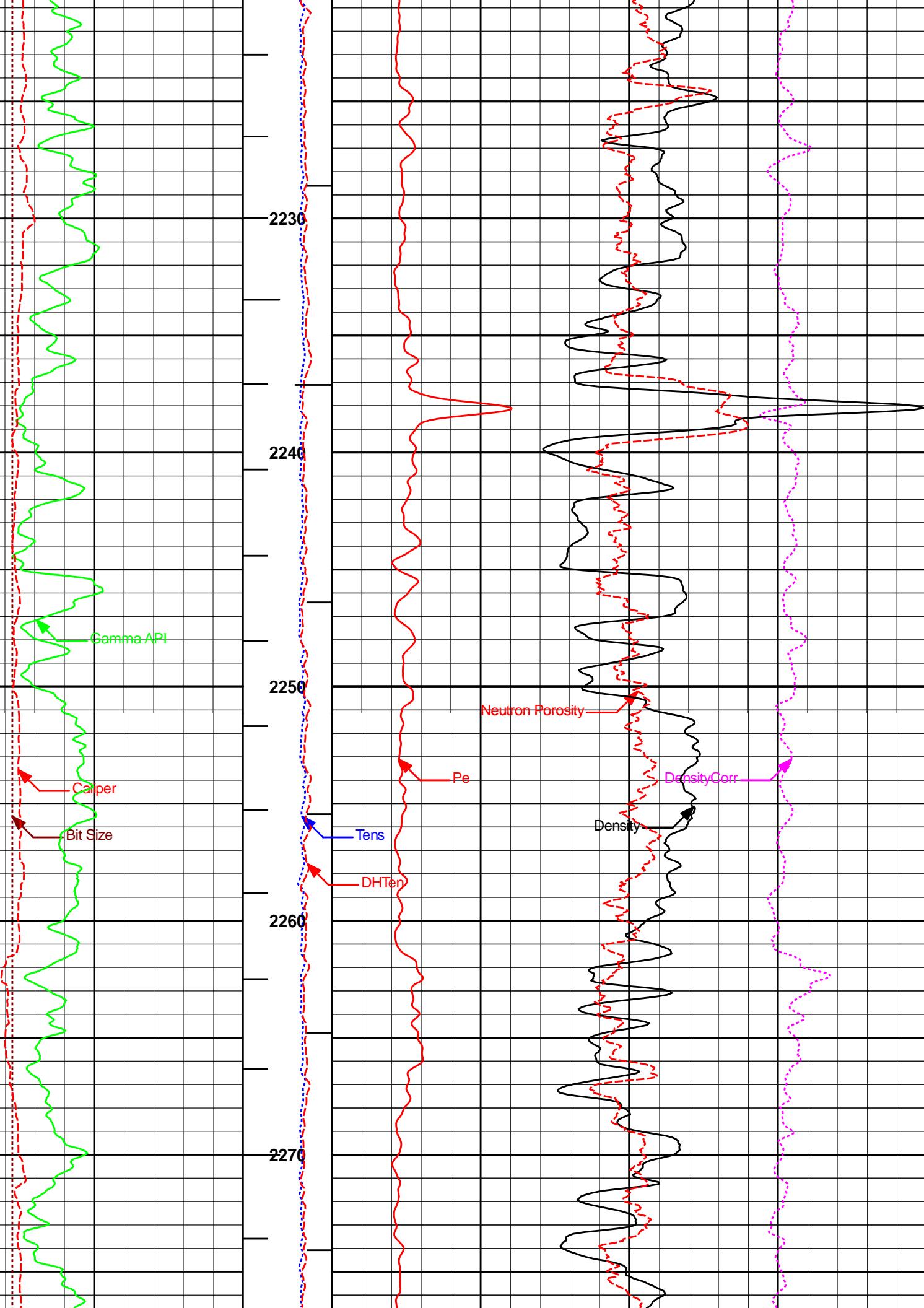


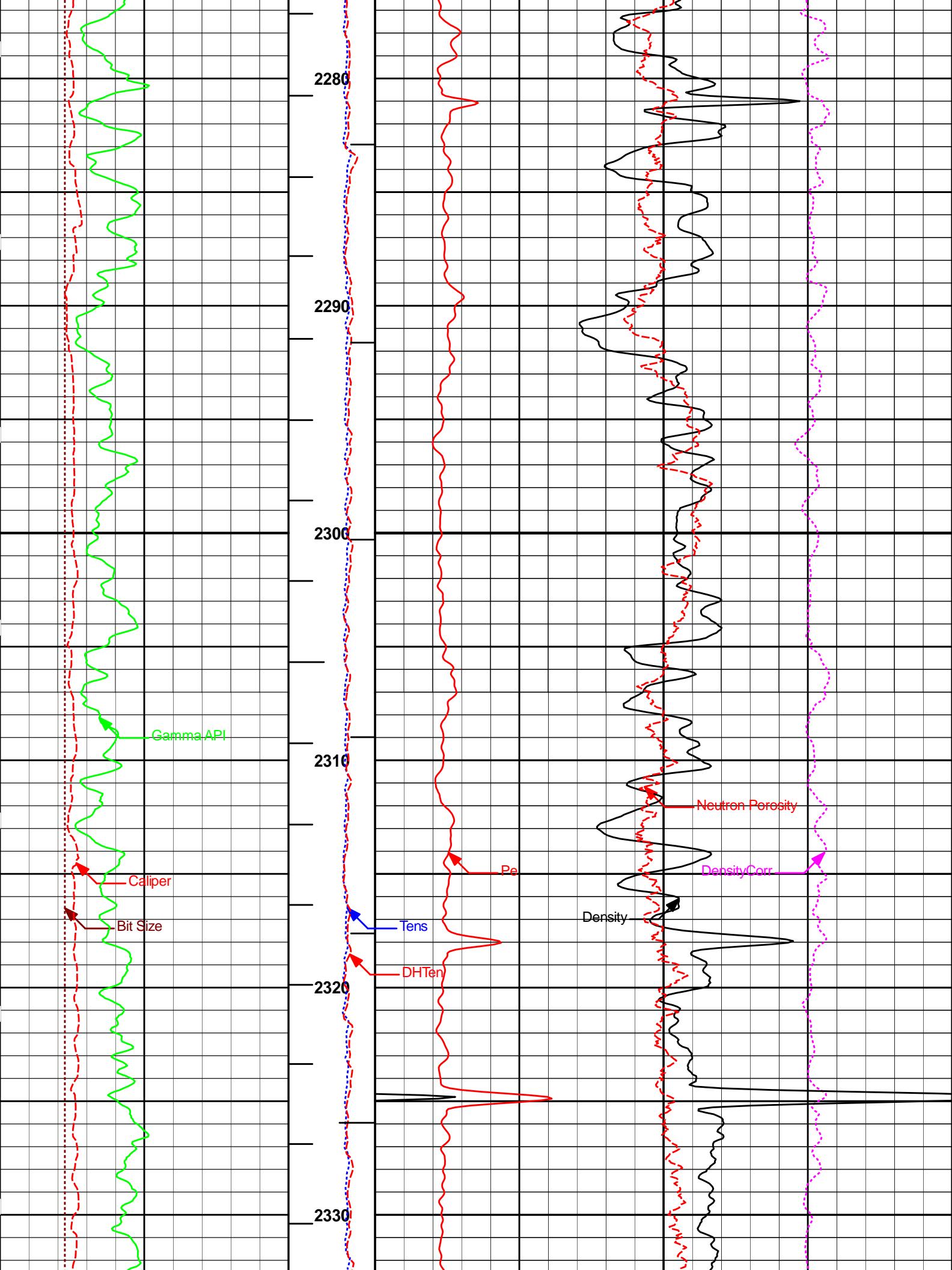


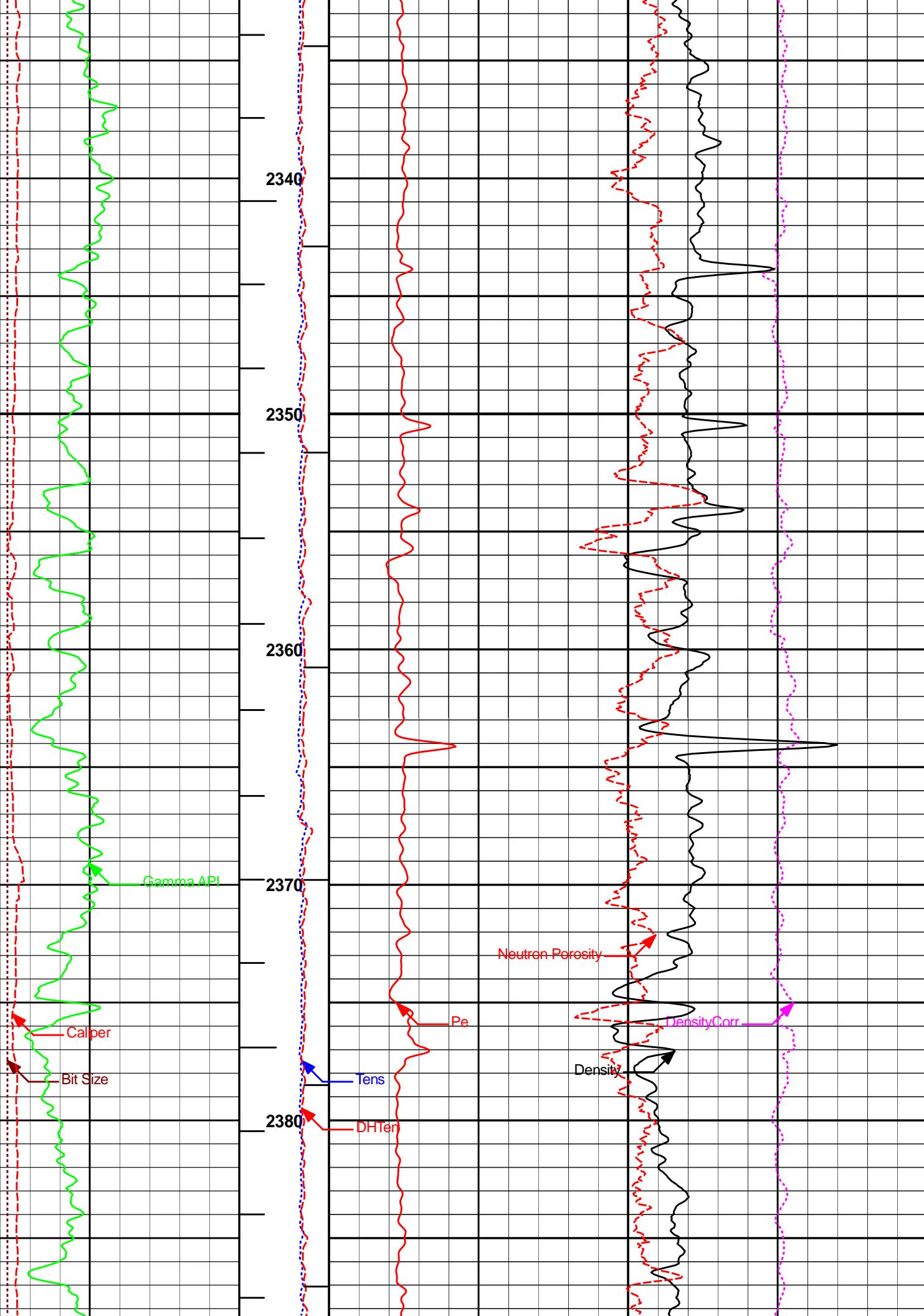


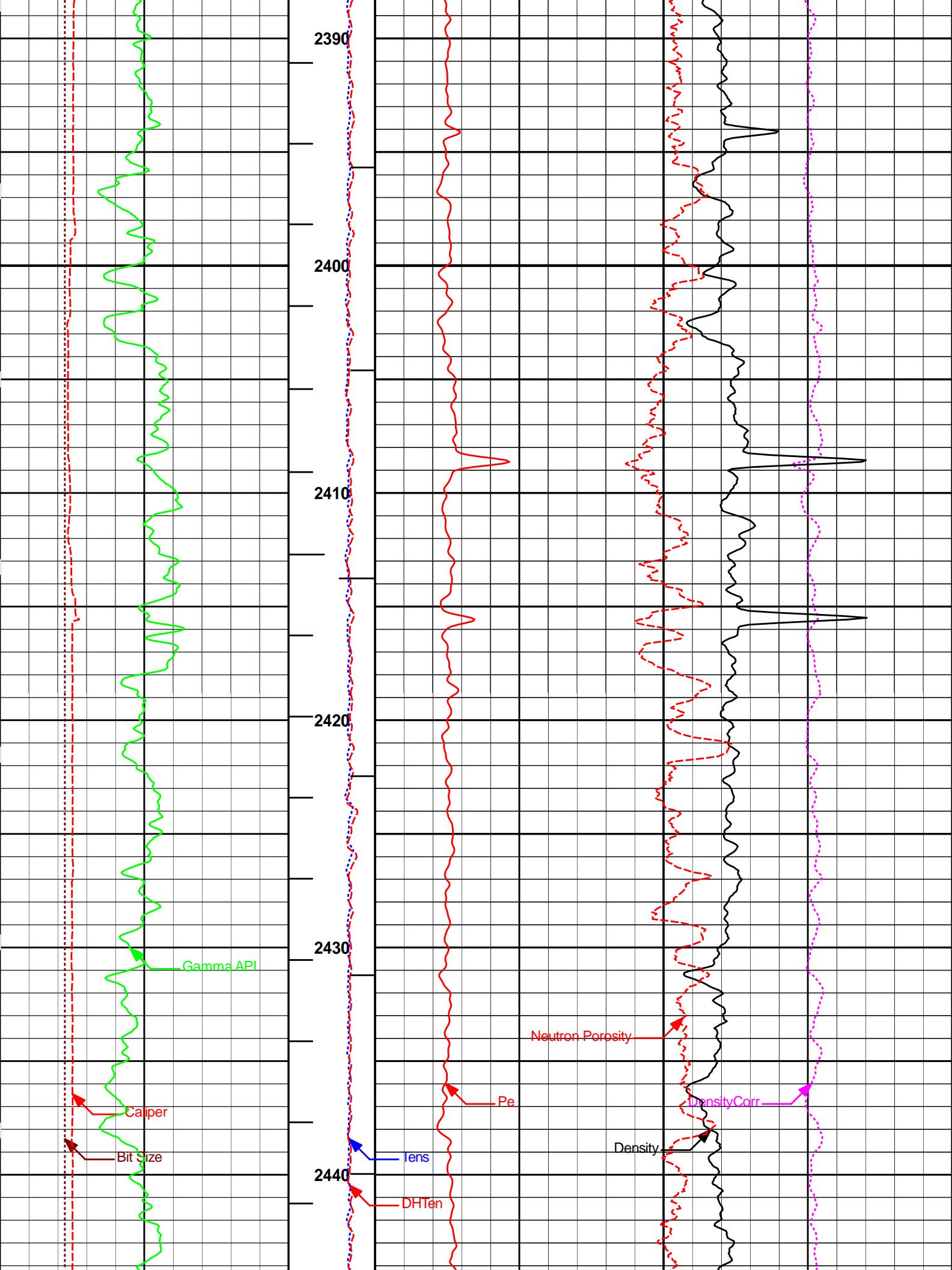


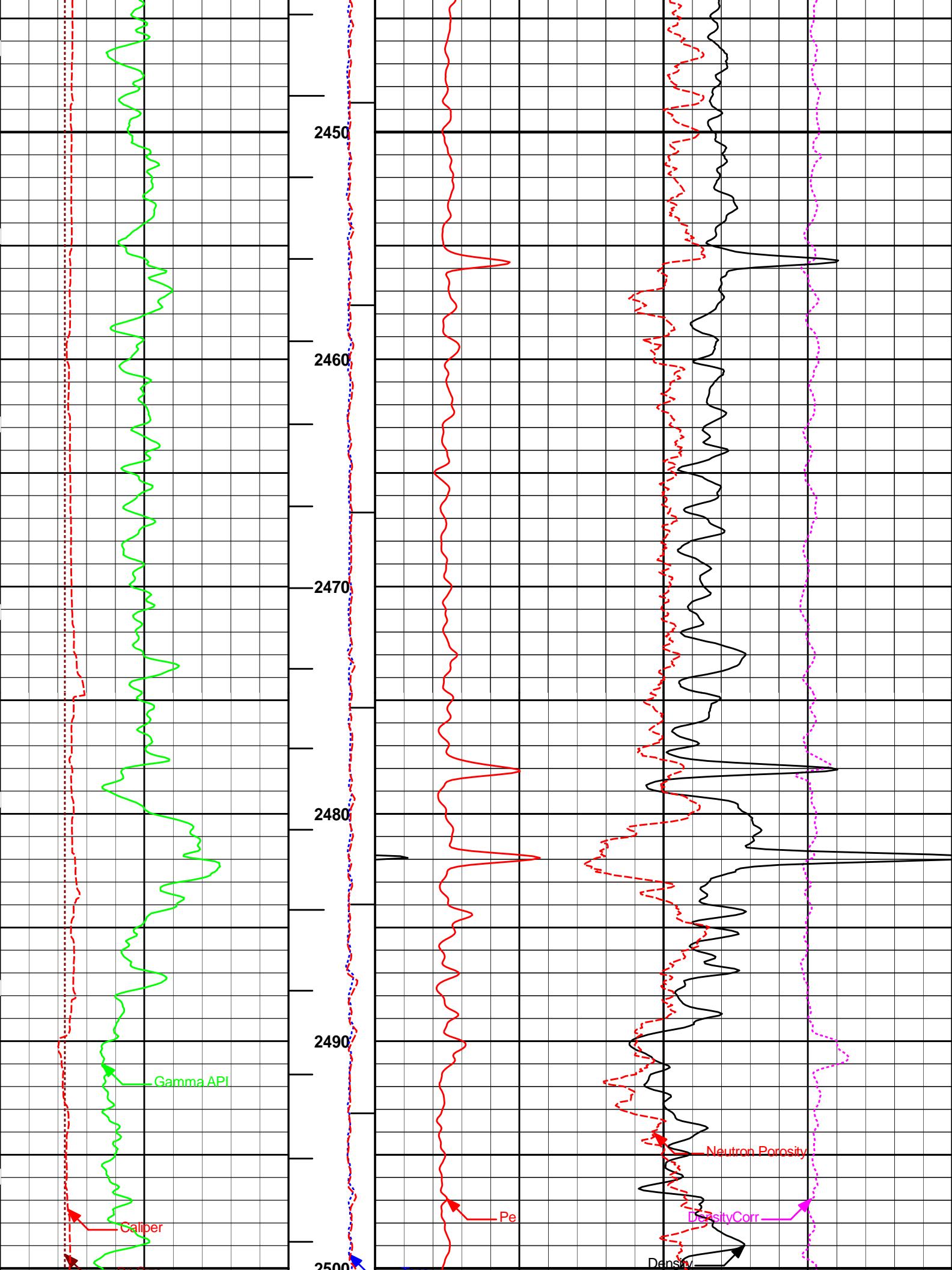


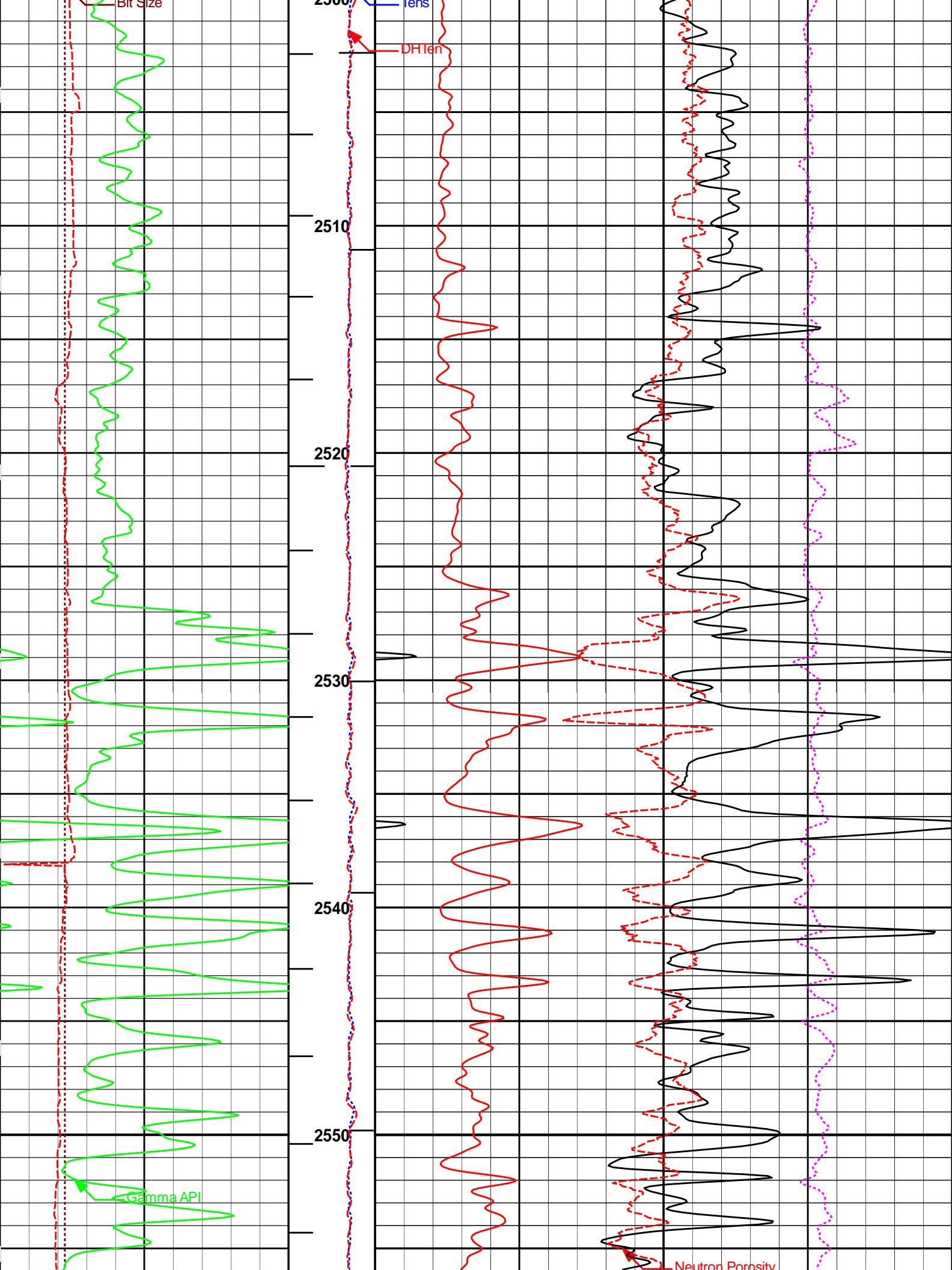


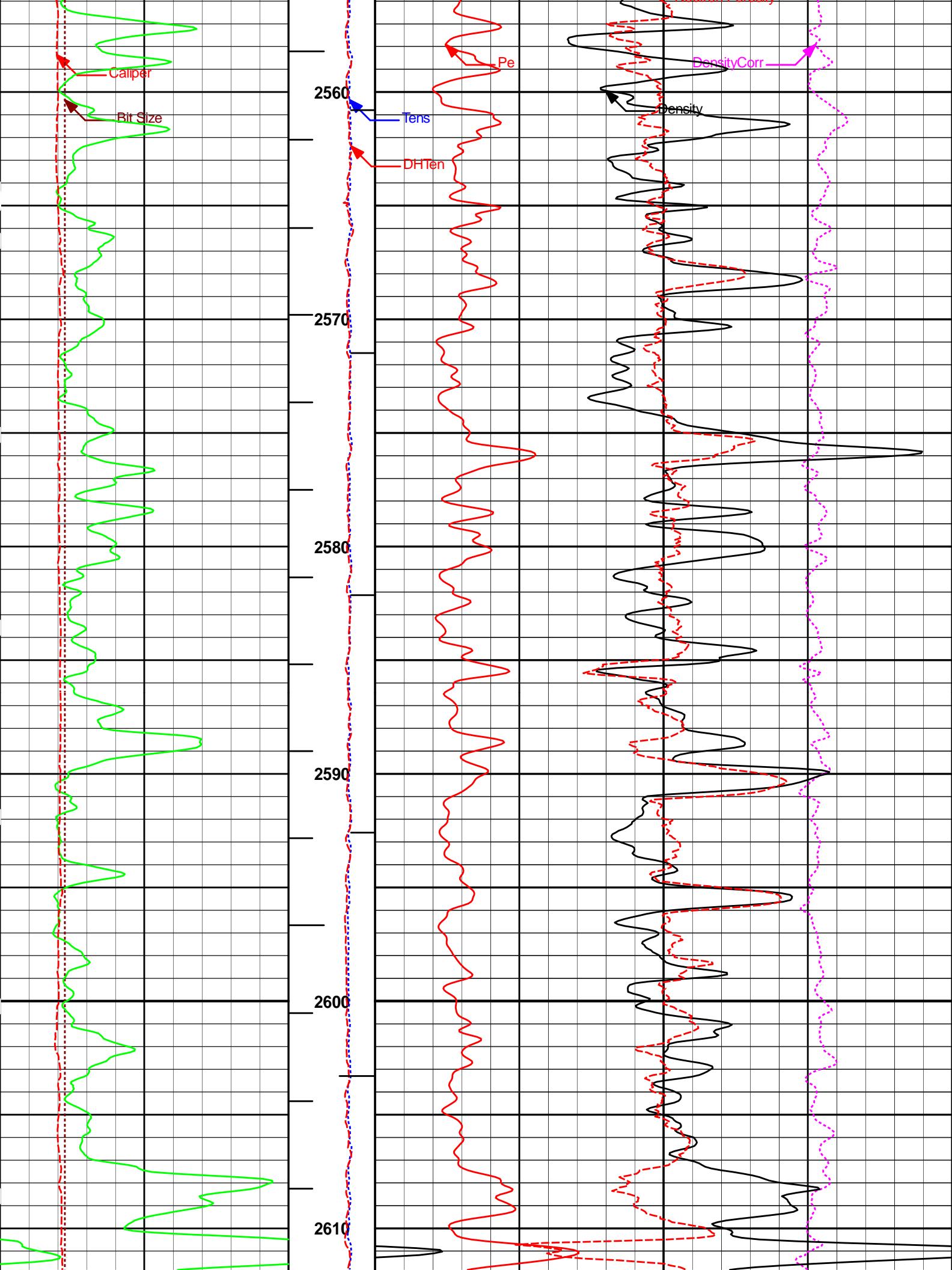


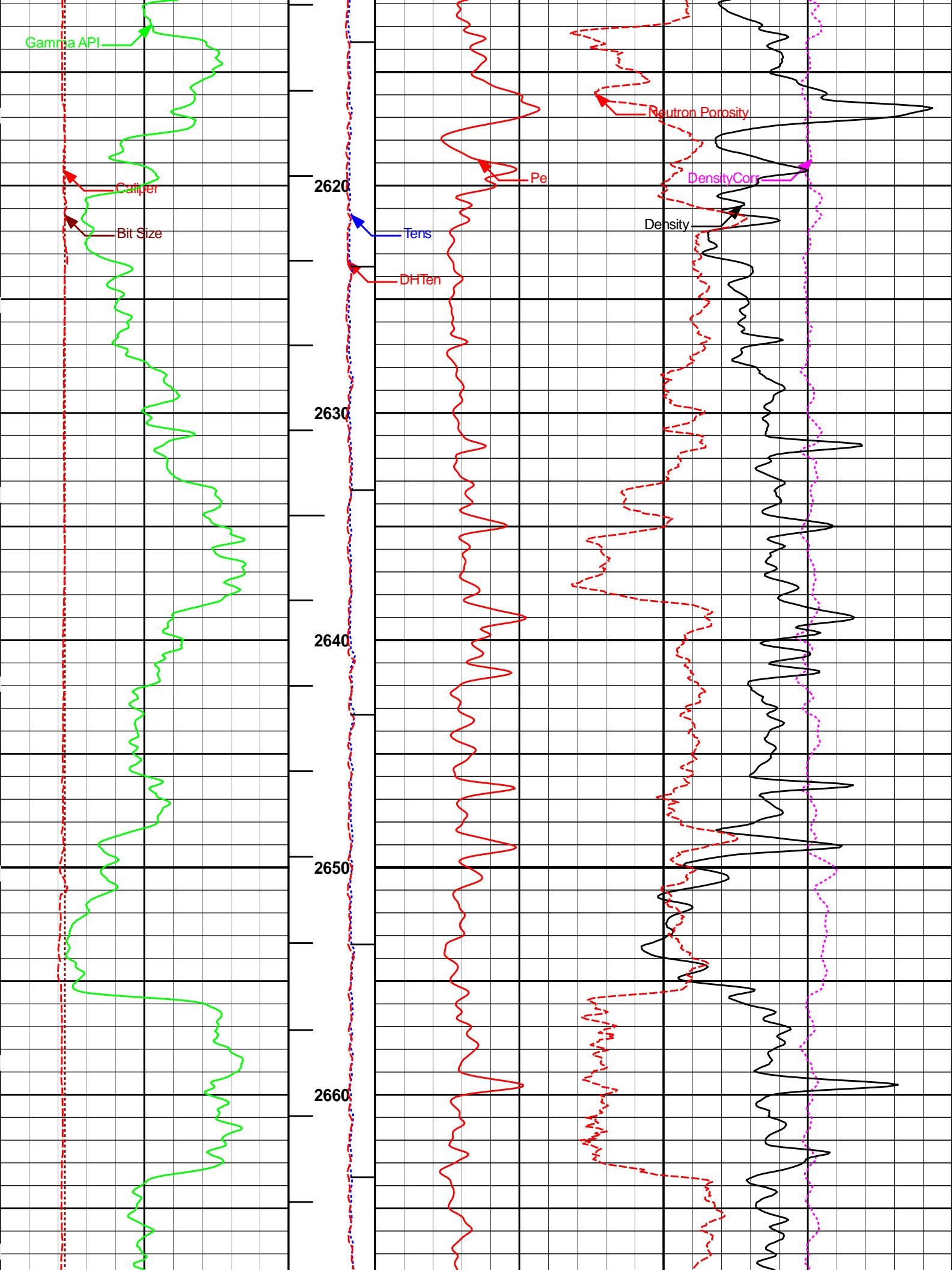


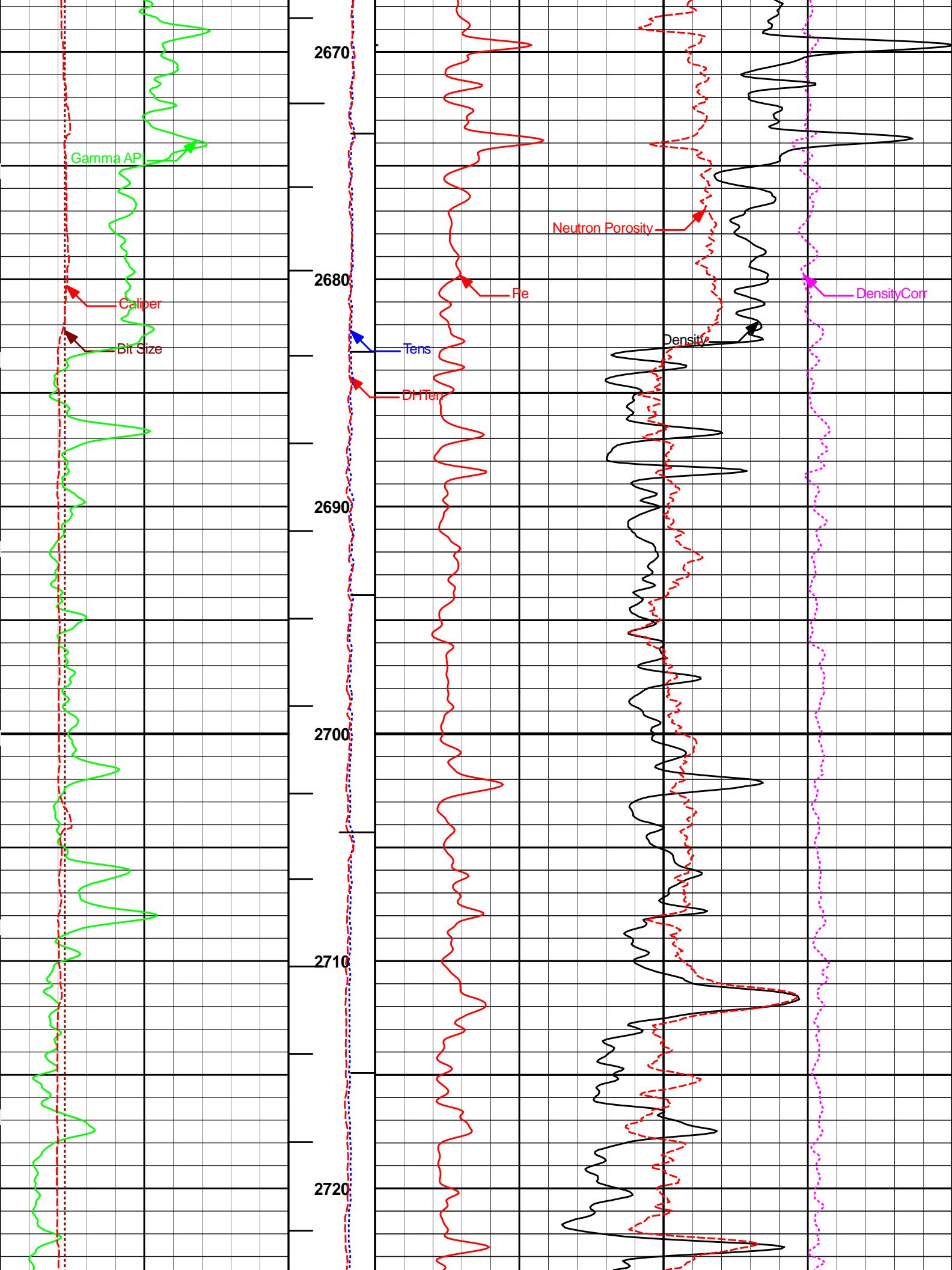


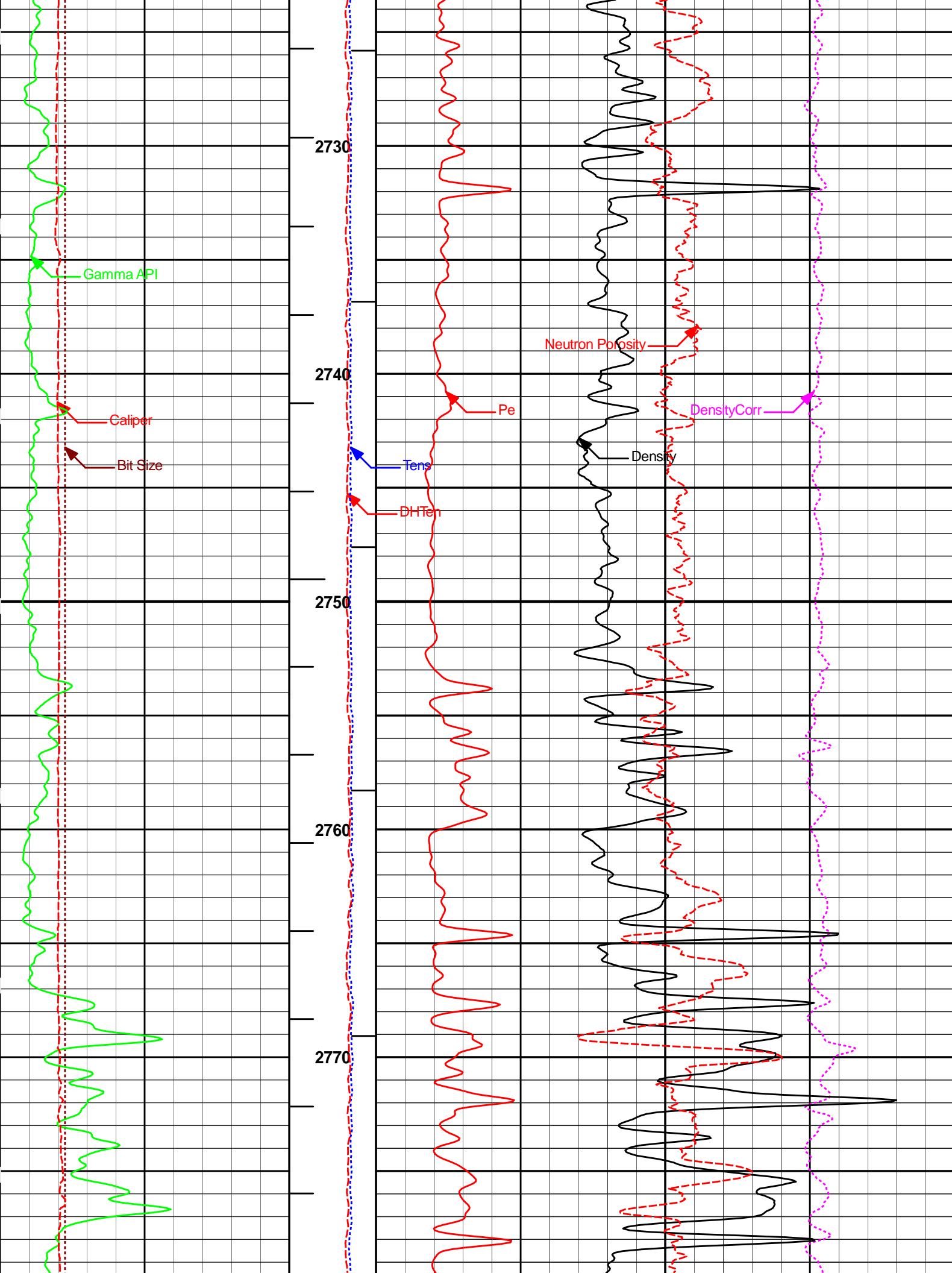


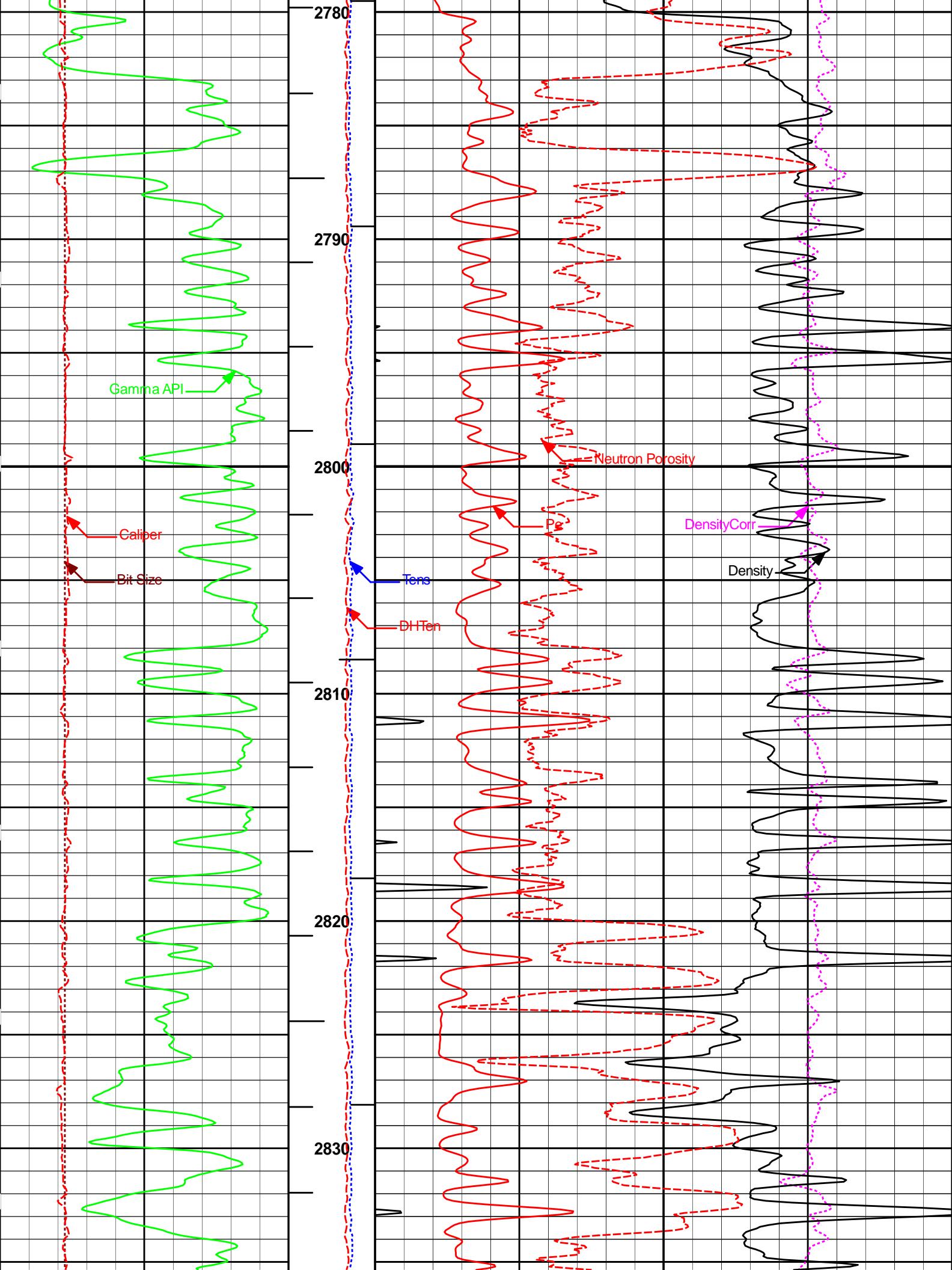












Gamma API

Caliper
Bit Size

2840

2850

2860

2870

2880

2890

Neutron Porosity

Pe

Tens

DHTen

Density Curr

Density

Gamma API

Caliper

Bit Size

Neutron Porosity

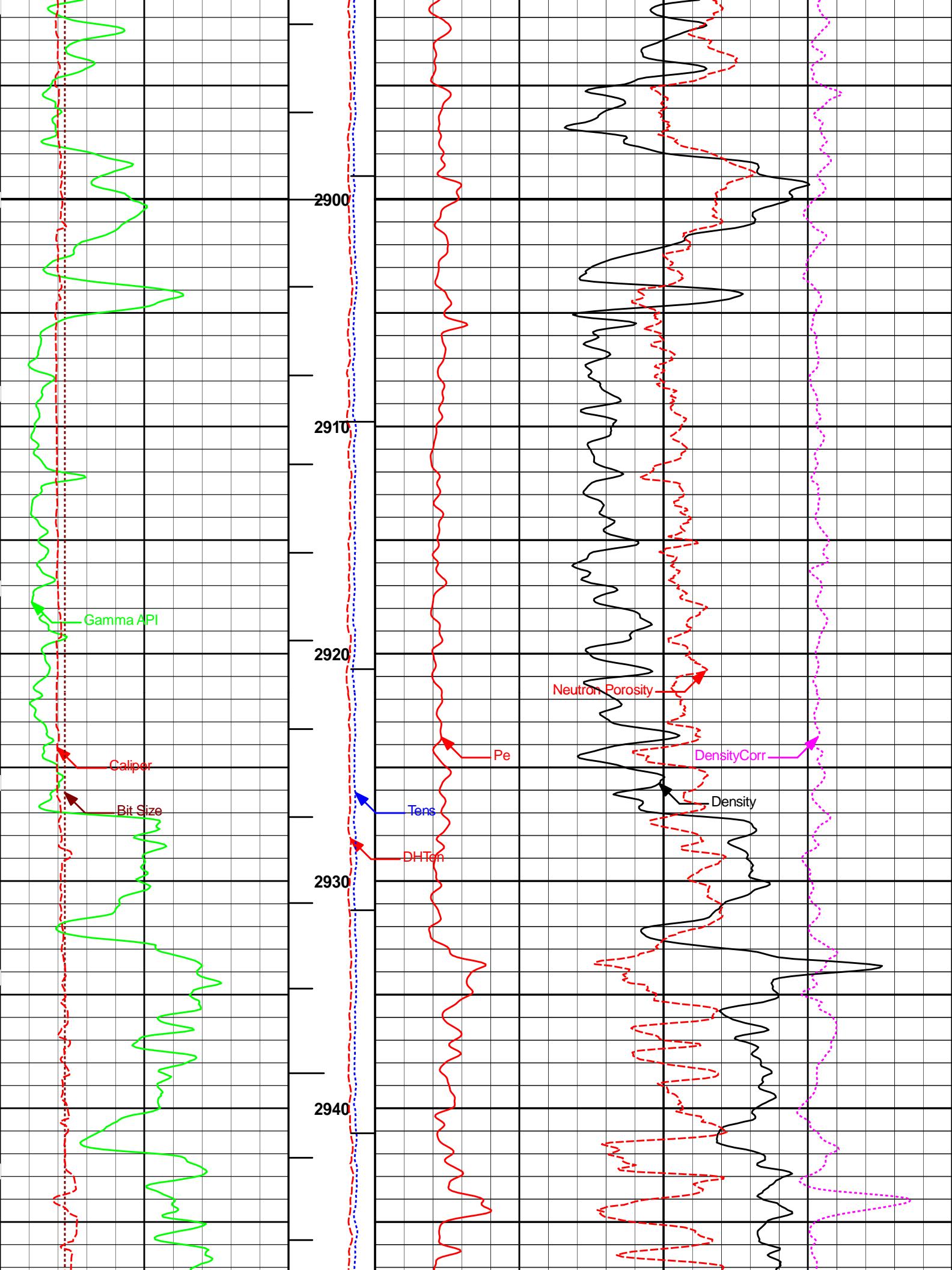
Pe

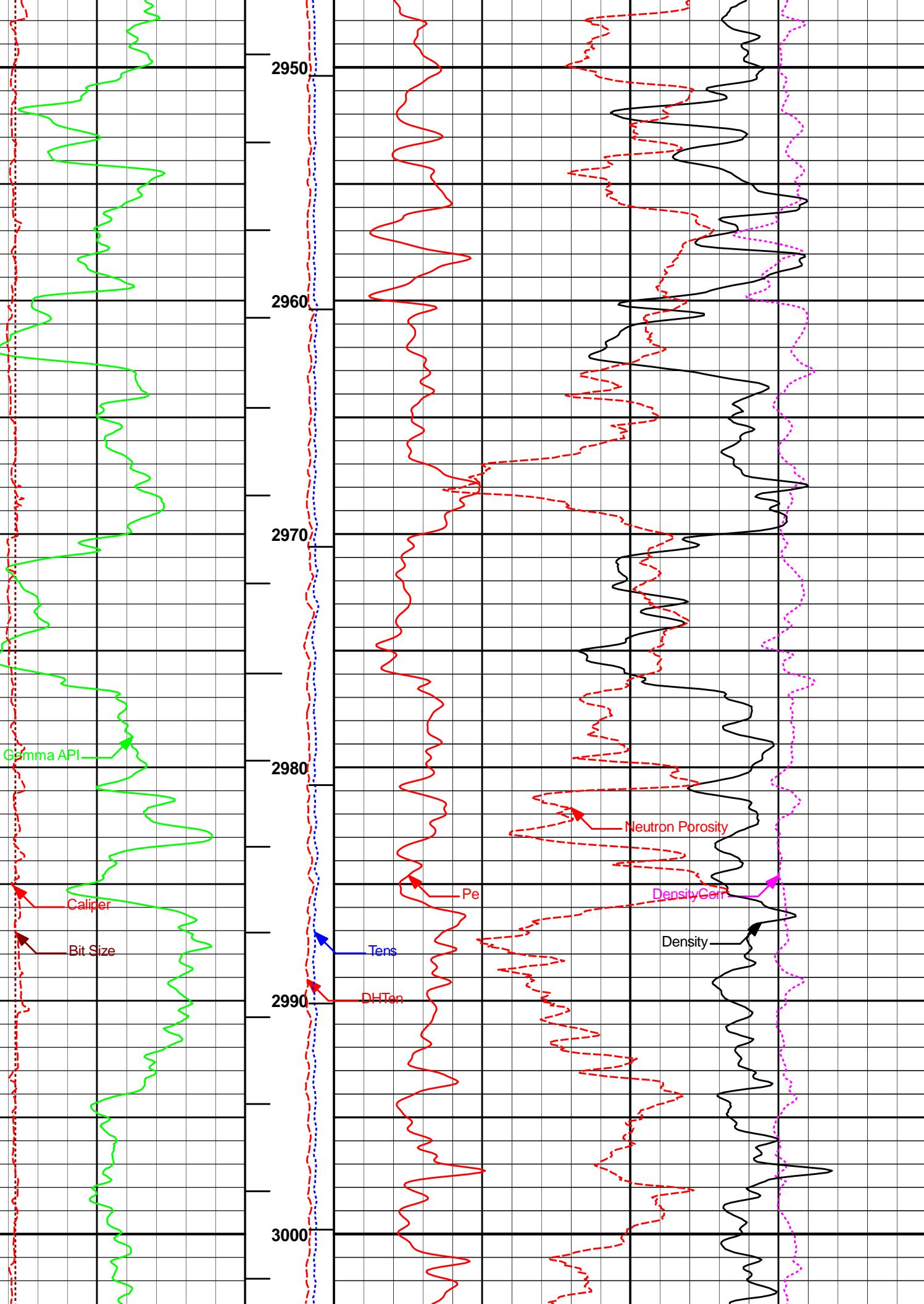
Tens

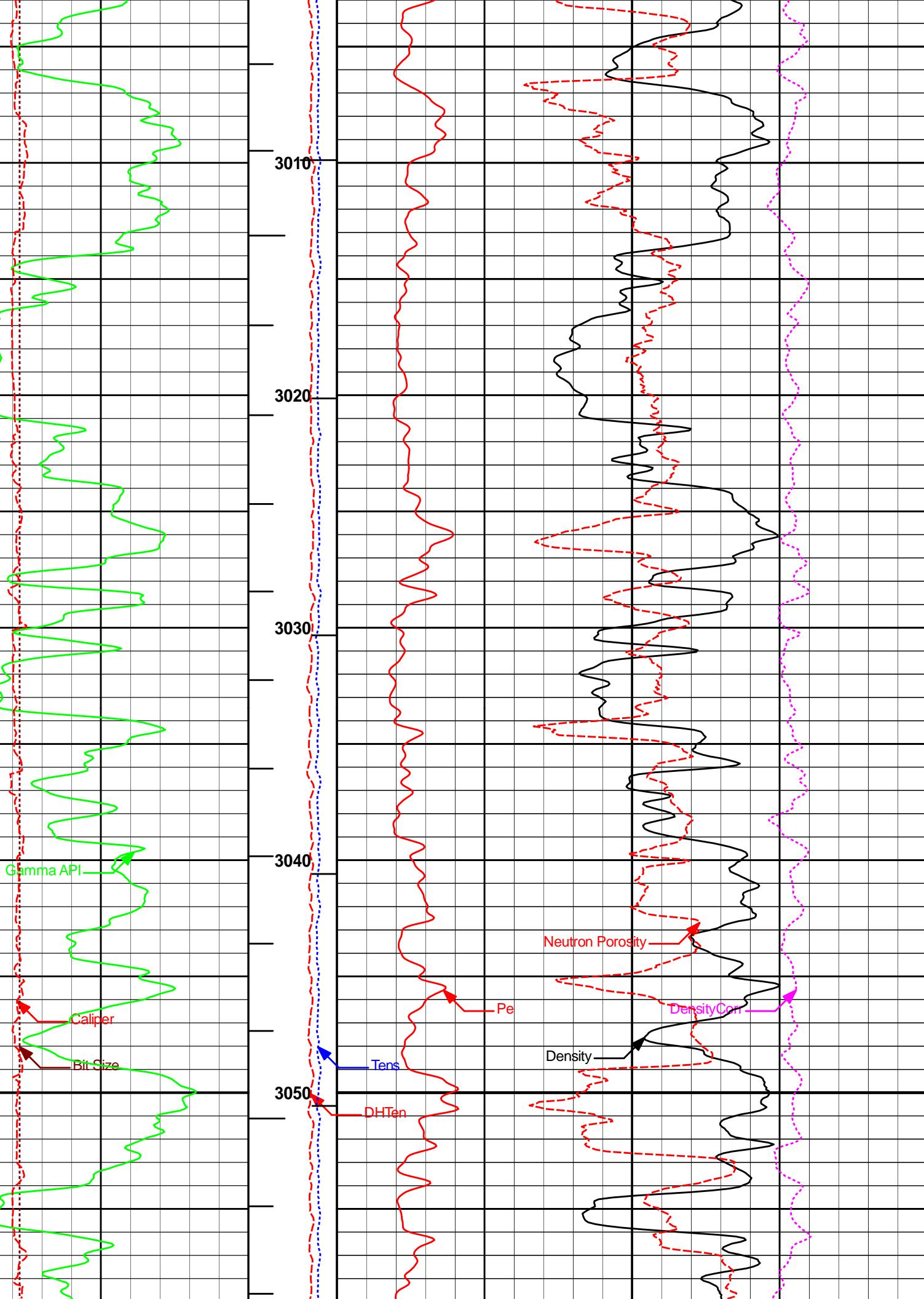
DHTen

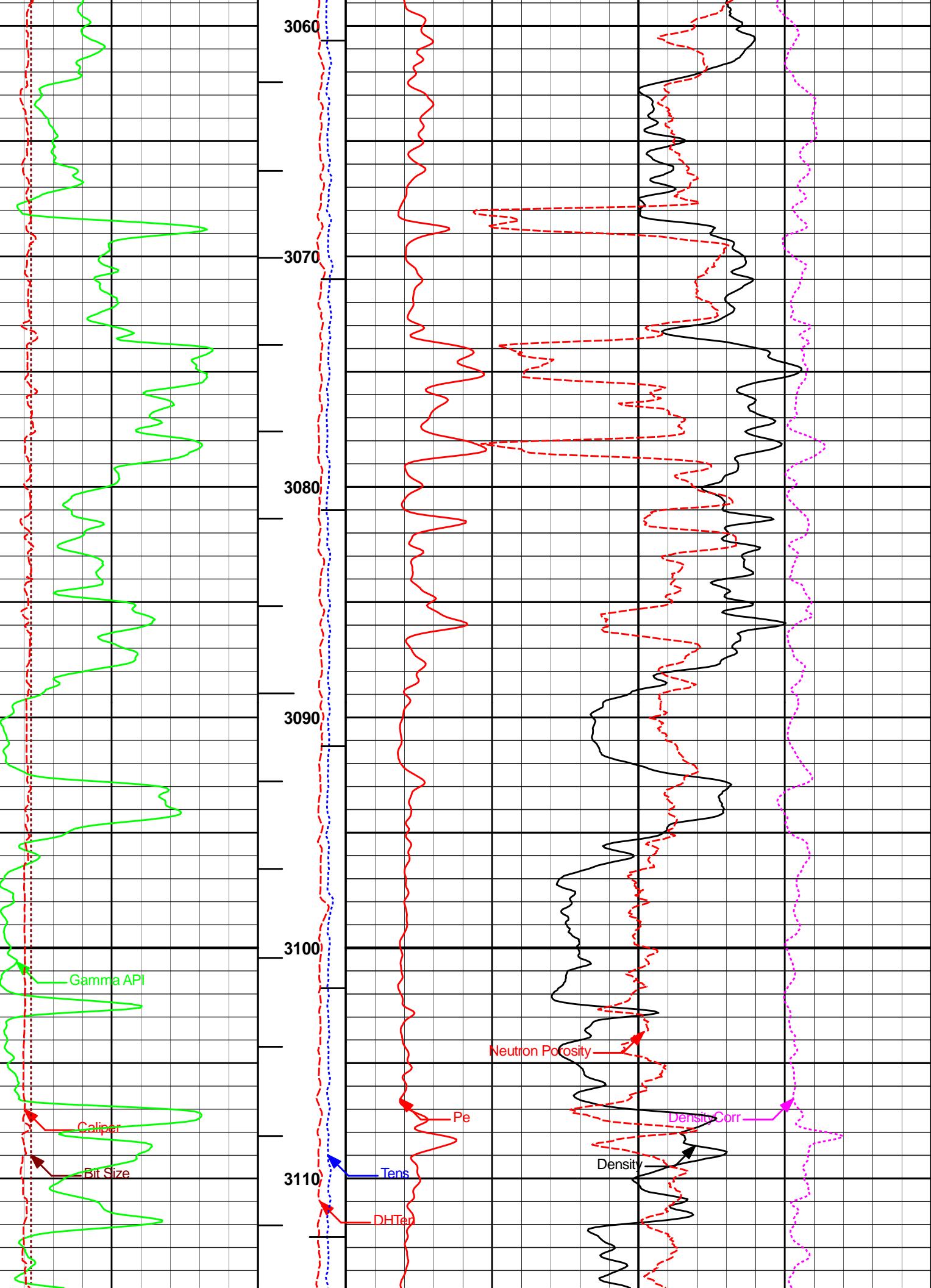
Density Curr

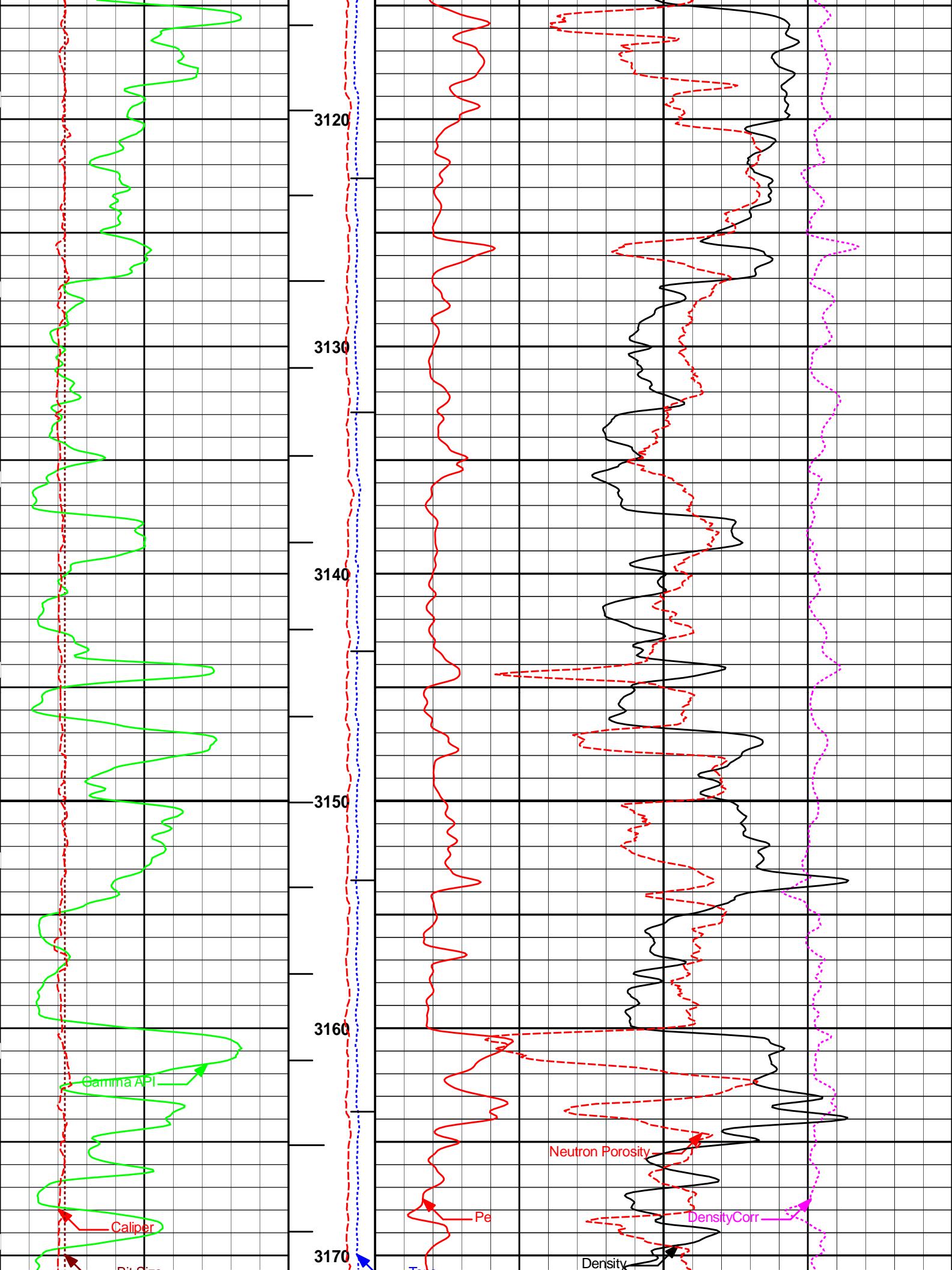
Density

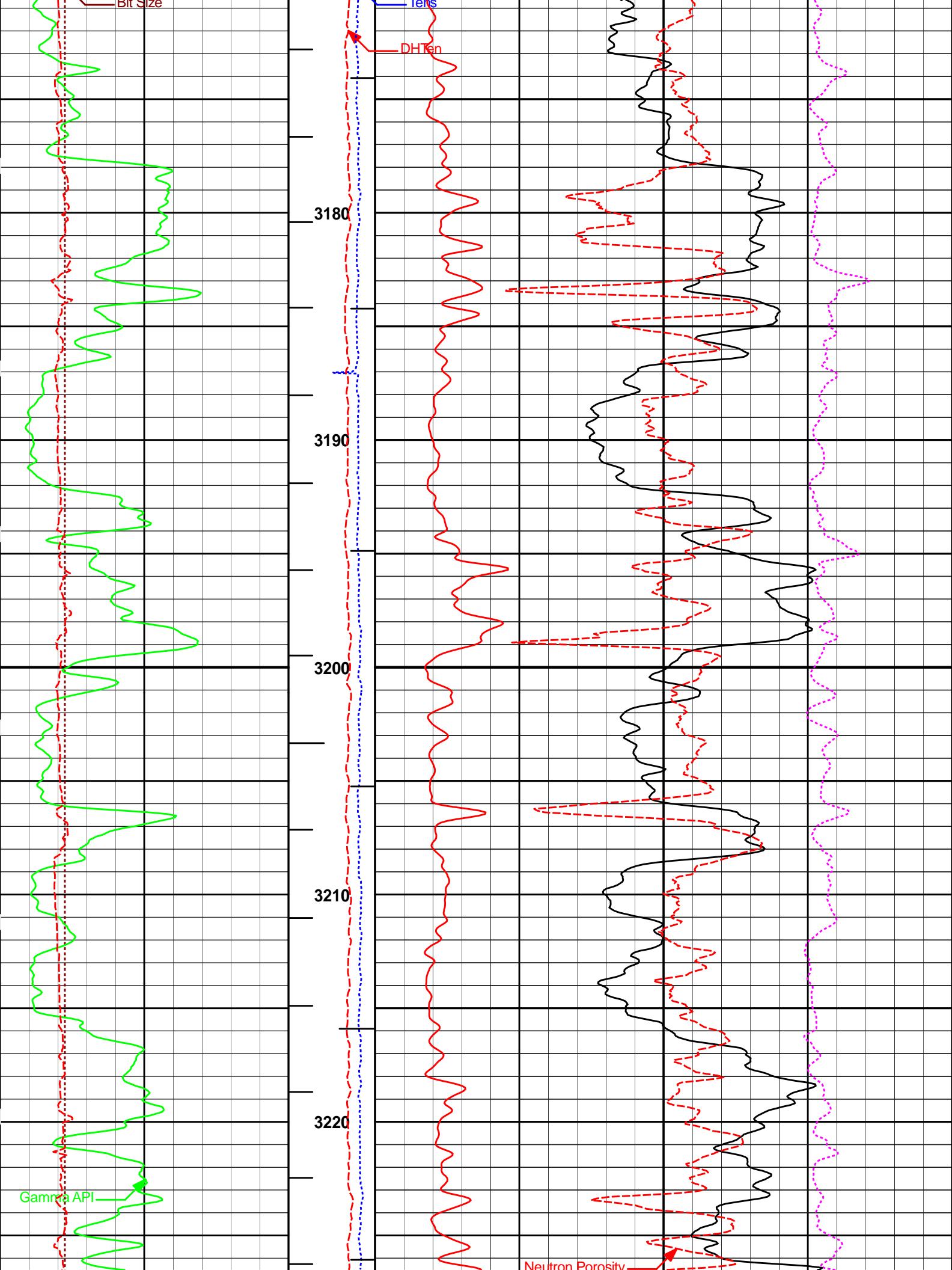


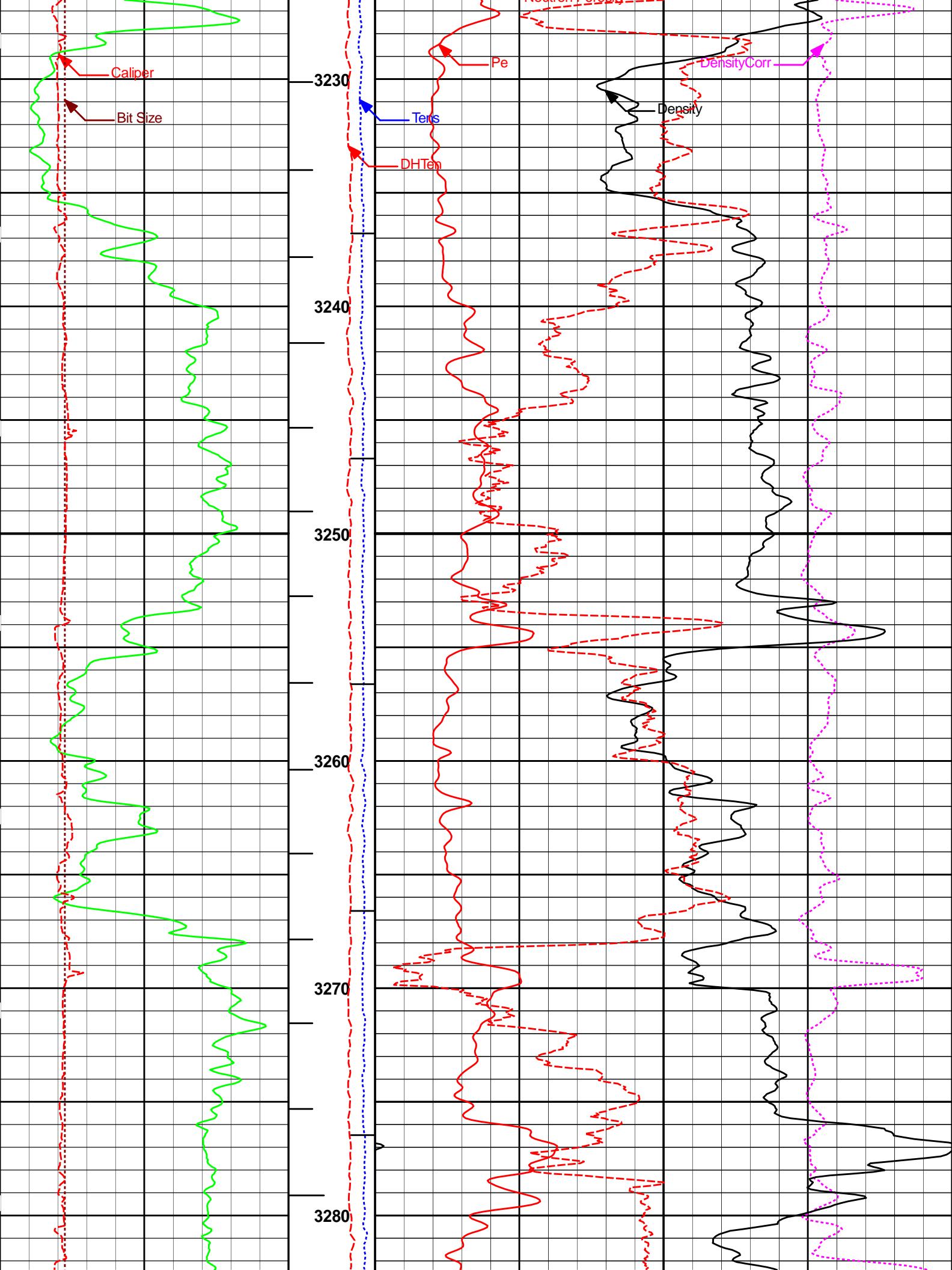


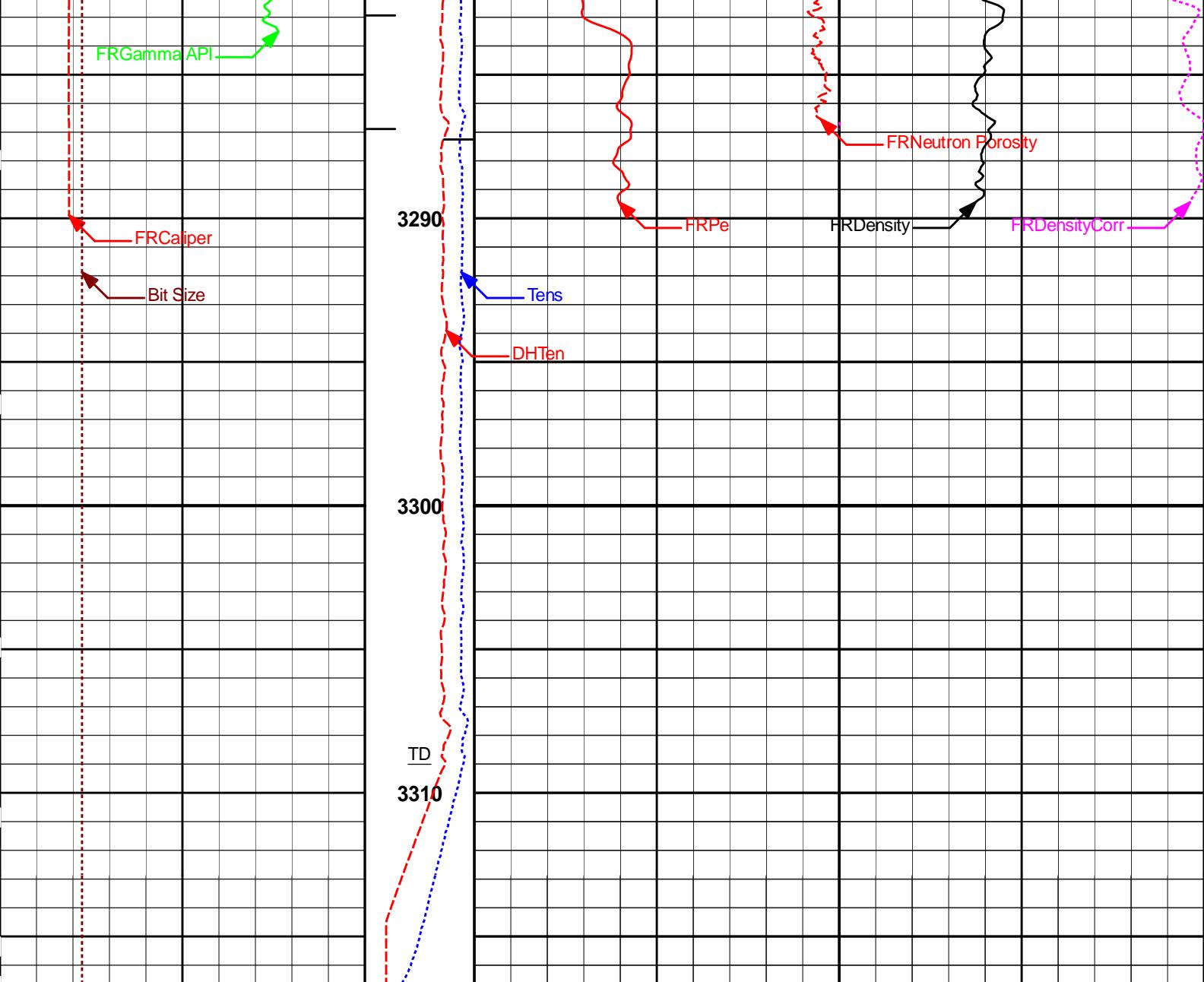








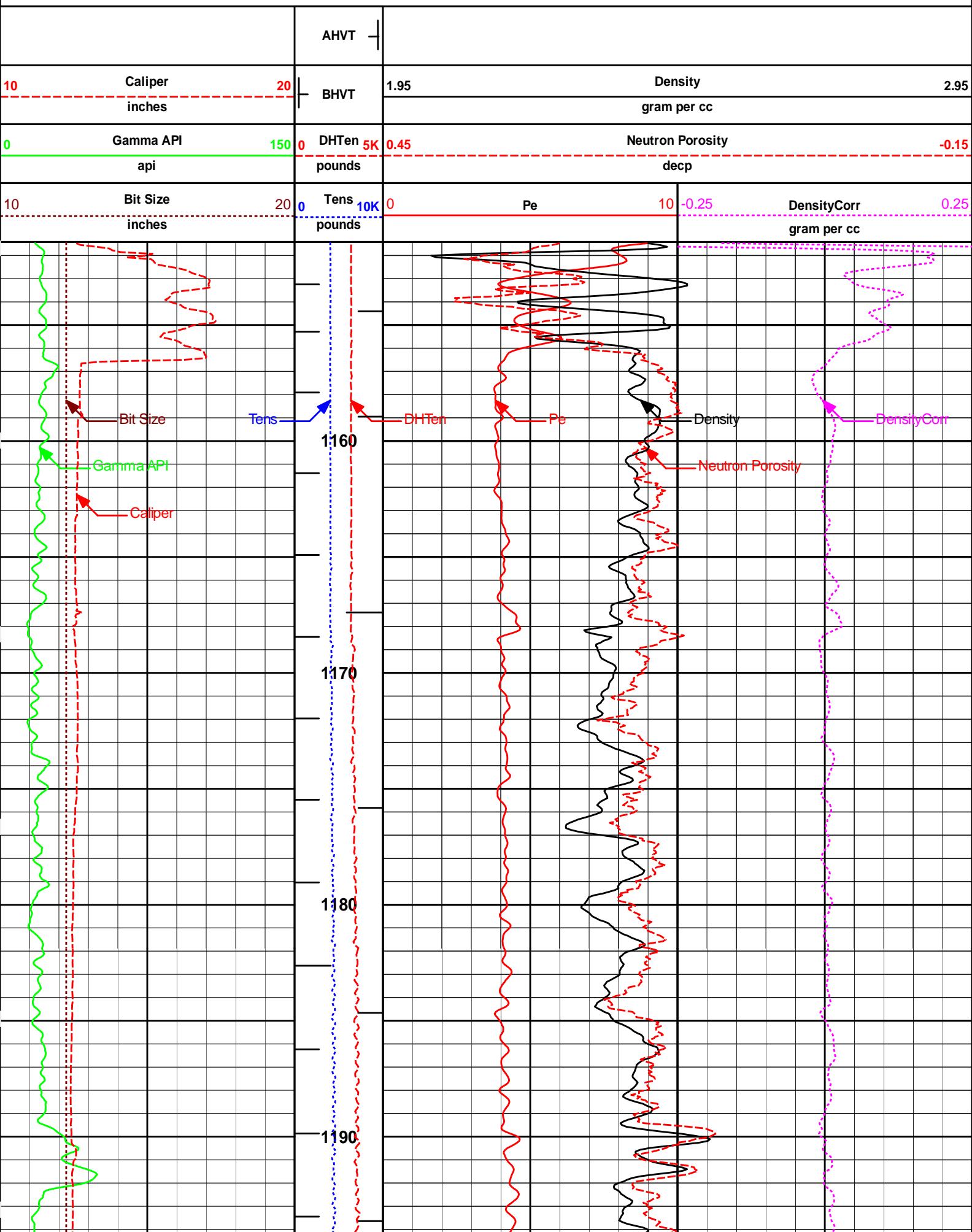


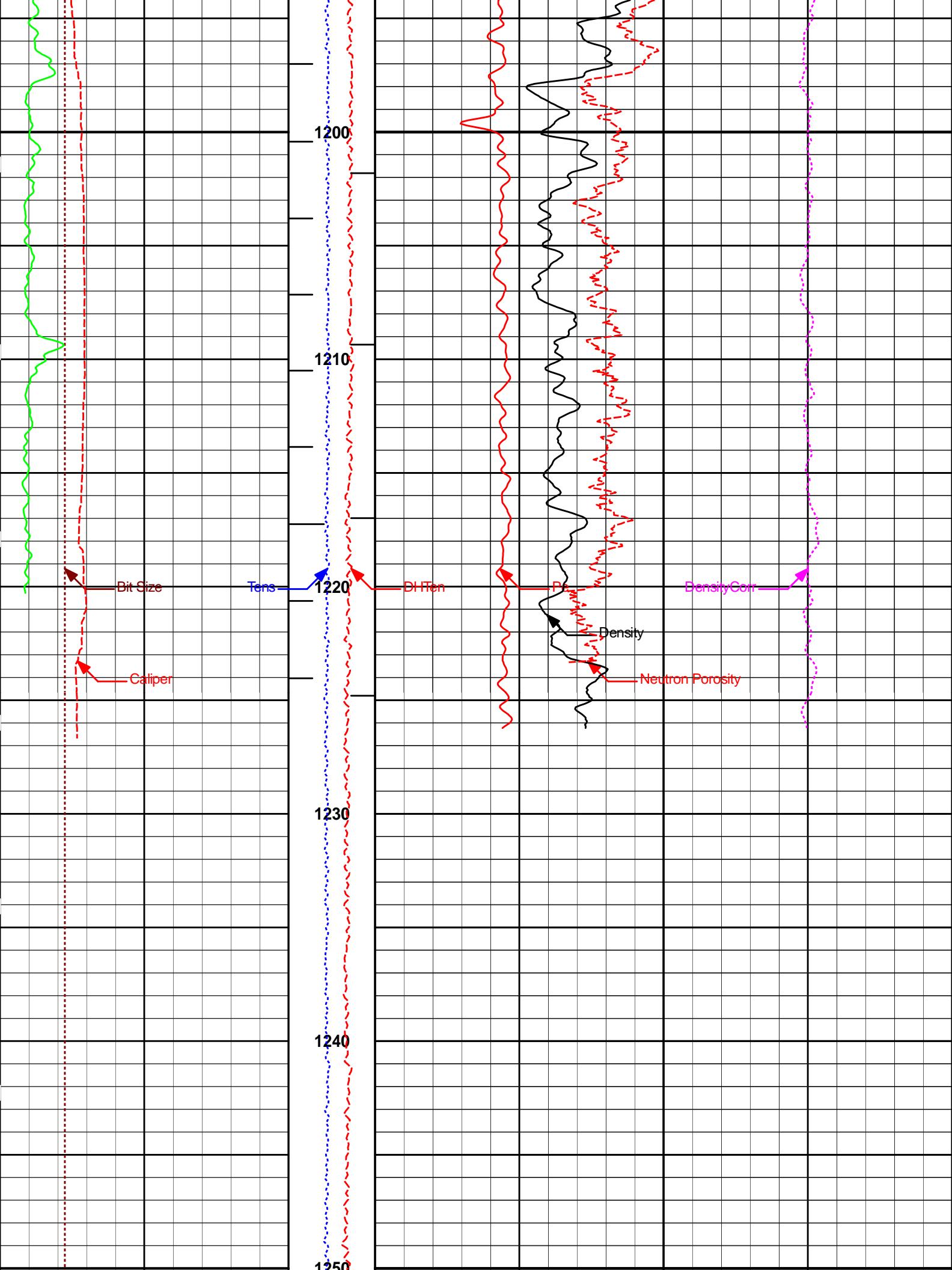


10	Bit Size	20	Tens pounds	0 10K 0	Pe	10 -0.25	DensityCorr gram per cc	0.25
0	Gamma API api	150	DHTen pounds	0 5K 0.45		Neutron Porosity decp		-0.15
10	Caliper inches	20	BHVT	1.95		Density gram per cc		2.95

MAIN PASS SCALE 1:200

REPEAT PASS SCALE 1:200





10	Bit Size inches	20	Tens pounds	0	Pe	10 -0.25 DensityCorr gram per cc
0	Gamma API api	150	DHTen pounds	0	5K 0.45	Neutron Porosity decp
10	Caliper inches	20	BHVT	1.95		Density gram per cc
			AHVT			

REPEAT PASS SCALE 1:200

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CALIBRATION REPORT

SURFACE TENSION SHOP CALIBRATION

Tool Name:	Depth Panel - 12196061	Reference Calibration Date:	29-Dec-22 19:17:12
Engineer:	jatinder kumar	Calibration Date:	29-Dec-22 19:17:45
Software Version:	WL INSITE R6.6.7 (Build 8)	Calibration Version:	1

SURFACE TENSION LOAD CELL

Measurement	Load Cell Value	Measurement	Calibrated	Units
Low	0,98	-0,83	0,00	lbs
High	7833,10	7856,27	7860,00	lbs

DOWNHOLE TENSION SHOP CALIBRATION

Tool Name:	RWCH - 11622044	Reference Calibration Date:	20-Dec-22 21:44:54
Engineer:	jatinder kumar	Calibration Date:	29-Dec-22 22:25:08
Software Version:	WL INSITE R6.6.7 (Build 8)	Calibration Version:	1

DOWNHOLE LOAD CELL

Measurement	Tool Value	Measurement	Calibrated	Units
Low	-392,52	-49,25	0,00	lbs
High	9510,73	2747,94	2786,10	lbs

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 11405268	Reference Calibration Date:	30-Jun-22 10:45:17
Engineer:	S.SHAMY	Calibration Date:	30-Jun-22 11:01:43
Software Version:	WL INSITE R6.6.7 (Build 8)	Calibration Version:	1

Calibrator Source S/N: JL0720208-03

Calibrator API Reference:241,00 api

Equivalent Calibrator API Reference:245,2 api

Measurement	Measured	Calibrated	Units
Background	26,2	26,9	api

Background + Calibrator	265,0	272,1	api
Calibrator	238,8	245,2	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 11405268

Reference Calibration Date: 30-Jun-22 11:01:43

Engineer: S.SHAMY

Calibration Date: 30-Jun-22 11:12:26

Software Version: WL INSITE R6.6.7 (Build 8)

Calibration Version: 1

Calibrator Source S/N: JL0720208-03

Calibrator API Reference: 241,00 api

Equivalent Calibrator API Reference: 245,2 api

Field Verification	Shop	Field	Units
Background	26,9	28,2	api
Background + Calibrator	272,1	279,2	api
Calibrator	245,2	250,9	api
Shop	Field	Difference	Tolerance
245,2	250,9	-5,7	+/- 9,00

NATURAL GAMMA RAY TOOL POST CALIBRATION

Tool Name: GTET - 11405268

Reference Calibration Date: 30-Jun-22 11:12:26

Engineer: S.SHAMY

Calibration Date: 30-Jun-22 11:16:59

Software Version: WL INSITE R6.6.7 (Build 8)

Calibration Version: 1

Calibrator Source S/N: JL0720208-03

Calibrator API Reference: 241,00 api

Equivalent Calibrator API Reference: 245,2 api

Post Verification	Field	Post	Units
Background	28,2	22,5	api
Background + Calibrator	279,2	281,0	api
Calibrator	250,9	258,6	api
Shop	Field	Post	Difference
245,2	250,9	258,6	-7,7
			+/- 9,00

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 11732146

Reference Calibration Date: 31-Dec-22 14:20:56

Engineer: jatinder kumar

Calibration Date: 31-Dec-22 14:34:13

Software Version: WL INSITE R6.6.7 (Build 8)

Calibration Version: 1

Logging Source S/N: DSN-451

Tank Serial Number: 11515544

Reference value assigned to Tank: 52,980

Snow Block S/N: 13742-01

Calibration Tank Water Temperature: 12 degC

Min. Tool Housing Outside Diameter: 3,625 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	1,00720	1,00303	0,900 - 1,100

WATER TANK SUMMARY (Horizontal Water Tank)

Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change
Porosity (decp):	0,2194	0,2182	0,0012	+/- 0,0020

Calibrated Ratio:	10,0134	9,9720	0,041	+/- 0,050
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VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0,0686	0,02000 - 0,09000

PASS/FAIL SUMMARY		
Background Check:	Passed	
Gain-Range Check:	Passed	
Snow-Block Check:	Passed	

DENSITY CALIPER SHOP CALIBRATION

Tool Name:	SDLT - 10998370	Reference Calibration Date:	17-Nov-22 15:20:41
Engineer:	S.Shamy	Calibration Date:	17-Nov-22 15:26:29
Software Version:	WL INSITE R6.6.7 (Build 8)	Calibration Version:	1
Host Tool Name:	DSNT - 11732146		

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2087,16	-1906,52	-7000,00 - -1000,00
Pad Gain	0,0003775	0,0003628	0,0002000 - 0,0006000
Arm Offset	-3936,57	-3896,67	-5000,00 - 3000,00
Arm Gain	0,0005626	0,0005397	0,000300 - 0,000700
Arm Power	-0,000005322	-0,000003816	-0,000010000 - 0,000010000

The ring diameter is computed from: DIAMETER = PAD EXTENSION + ARM EXTENSION + TOOL DIAMETER

Tool Diameter: 4,50 in

CALIBRATION RINGS

Measurement	Current Reading (Previous Coeff.)	Calibrated (New Coeff.)	Change	Control Limit On New Value
PAD EXTENSION:				
Small Ring (in)	2,01	2,00	-0,01	+/- 0,20
Medium Ring (in)	3,83	3,75	-0,08	+/- 0,20
RING DIAMETER:				
Small Ring (in)	6,48	6,50	0,02	+/- 0,20
Medium Ring (in)	8,28	8,25	-0,03	+/- 0,20
Large Ring (in)	15,00	15,00	0,00	+/- 0,20

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check:	Passed
Ring-Measurement Check:	Passed

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check:	Passed
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SDLT CALIPER FIELD CALIBRATION

Tool Name:	SDLT - 10998370	Reference Calibration Date:	17-Nov-22 15:26:29
Engineer:	Alexandre Nagao	Calibration Date:	19-Dec-22 20:51:53
Software Version:	WL INSITE R6.6.7 (Build 8)	Calibration Version:	1

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3,75	3,69	-0,06	+/- 0,10
Ring Diameter	8,25	8,35	0,10	+/- 0,15

PASS/FAIL SUMMARY

Pad Extension Check:	Passed
Diameter Check:	Passed

SDLT CALIPER POST CALIBRATION

Tool Name:	SDLT - 10998370	Reference Calibration Date:	19-Dec-22 20:51:53
Engineer:	Alexandre Nagao	Calibration Date:	19-Dec-22 20:54:27
Software Version:	WL INSITE R6.6.7 (Build 8)	Calibration Version:	1

MEASURED CALIPER VALUES

Measurement	Field	Post	Change	Control Limit On New Value
Pad Extension	3,69	3,69	0,01	+/- 0,10
Ring Diameter	8,35	8,35	-0,00	+/- 0,15

PASS/FAIL SUMMARY

Pad Extension Check:	Passed
Diameter Check:	Passed

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name:	SDLT Pad - 11732135	Reference Calibration Date:	31-Dec-22 15:21:40
Engineer:	jatinder kumar	Calibration Date:	31-Dec-22 15:40:06
Software Version:	WL INSITE R6.6.7 (Build 8)	Calibration Version:	1

Logging Source S/N: EZ22066

Aluminum Block S/N: 11661413

Density: 2,611g/cc

Pe: 3,200

Magnesium Block S/N: 11689130

Density: 1,689g/cc

Pe: 2,610

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1,0255	1,0194	0,90 - 1,10
Near Dens Gain	1,0116	1,0225	0,90 - 1,10
Near Peak Gain	1,0309	1,0325	0,90 - 1,10
Near Lith Gain	1,0115	1,0397	0,90 - 1,10
Far Bar Gain	1,0113	1,0111	0,90 - 1,10
Far Dens Gain	1,0001	0,9997	0,90 - 1,10
Far Peak Gain	0,9951	0,9937	0,90 - 1,10
Far Lith Gain	0,9730	0,9785	0,90 - 1,10
Near Bar Offset	-0,1477	-0,0906	NONE
Near Dens Offset	0,0040	-0,0920	NONE
Near Peak Offset	-0,1657	-0,1782	NONE
Near Lith Offset	-0,0533	-0,2901	NONE
Far Bar Offset	-0,0255	-0,0237	NONE
Far Dens Offset	0,0776	0,0817	NONE
Far Peak Offset	0,1249	0,1379	NONE
Far Lith Offset	0,2661	0,2198	NONE
Near Bar Background	890,75	891,78	700 - 1450
Near Dens Background	292,53	294,51	230 - 480
Near Peak Background	128,91	129,90	100 - 210
Near Lith Background	160,35	159,19	125 - 260
Far Bar Background	577,26	577,20	450 - 900
Far Dens Background	232,57	230,60	175 - 345

Far Peak Background	92,76	92,33	70 - 140
Far Lith Background	96,07	96,10	75 - 145

CALIBRATION BLOCK SUMMARY					
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change	
MAGNESIUM					
Density (g/cc)	1,689	1,689	0,000	+/- 0,015	
Pe	2,591	2,563	-0,028	+/- 0,150	
ALUMINUM					
Density (g/cc)	2,612	2,611	-0,001	+/- 0,01500	
Pe	3,125	3,149	0,024	+/- 0,150	

TOOL SUMMARY					
Measurement	Near Detector		Far Detector		
	Value	Control Limits	Value	Control Limits	
QUALITY					
Background	-0,0001	+/- 0,0110	0,0012	+/- 0,0140	
Magnesium Block	-0,0017	+/- 0,0110	-0,0027	+/- 0,0140	
Aluminum Block	-0,0006	+/- 0,0110	-0,0017	+/- 0,0140	
Resolution	8,72	6,00 - 11,50	9,12	6,00 - 11,50	
Internal Verifier(B+D+P+L)	1475	1200 - 2700	996	800 - 1700	

PASS/FAIL SUMMARY	
Background Quality Check:	Passed
Background Range Check:	Passed
Background Resolution Check:	Passed
Background Verification Check:	Passed
Magnesium Quality Check:	Passed
Aluminum Quality Check:	Passed
Gains Check:	Passed
Changes in Calibration Blocks:	Passed

ACCELEROMETER AND MAGNETOMETER SHOP CALIBRATION

Tool Name:	XRMI-I Instrument - 11670577	Reference Calibration Date:	28-Nov-21 15:07:28
Engineer:	CHRISTIAN HALIM	Calibration Date:	28-Nov-21 15:28:09
Software Version:	WL INSITE R6.6.1 (Build 2)	Calibration Version:	1

Reference Gravity Field: 1,0000 g

Reference Magnetic Field: 50981,0000 nT

* QF : value of 0 is shown for bad quality if | data - reference | > (2 * standard deviation) and > (0.5% of reference value)

ACCELEROMETER CALIBRATION RAW DATA VALUE						
Raw Acc X	Raw Acc Y	Raw Acc Z	Gravity	Quality %	QF	
-324,7500	-18993,0000	115,5000	1,0000	99,9974	1	
-19092,7500	293,5000	109,2500	1,0000	99,9978	1	
1004,5000	19354,2500	102,7500	1,0000	99,9954	1	
19374,5000	-394,5000	112,5000	0,9999	99,9880	1	
-771,5000	19345,2500	223,7500	0,9997	99,9741	1	
-9596,5000	13340,2500	5190,2500	1,0003	99,9659	1	
1115,7500	19345,5000	7,2500	1,0000	99,9958	1	
19351,5000	-986,2500	21,0000	1,0002	99,9826	1	
-2020,5000	-18877,0000	25,2500	1,0001	99,9938	1	

-18988,2500	2146,0000	8,7500	0,9999	99,9854	1
406,5000	705,5000	9772,7500	0,9999	99,9879	1
-8949,5000	14172,0000	-4625,5000	1,0001	99,9888	1

ACCELEROMETER QUALITY SUMMARY

Average Calculated Gravity Field	1,0000	g
Standard Deviation Calculated Gravity Field	0,0002	g

ACCELEROMETER GAIN AND OFFSET

	GAIN	OFFSET
ACC X	0,0000519759	-0,0075919311
ACC Y	0,0000521213	-0,0097291972
ACC Z	0,0001038172	-0,0151582798

* QF : value of 0 is shown for bad quality if | data - reference | > (3 * standard deviation) and > (1% of reference value)

MAGNETOMETER CALIBRATION RAW DATA VALUE

Raw Mag X	Raw Mag Y	Raw Mag Z	Magnetic	Quality %	QF
3906,5000	10372,7500	-15,2500	50932,3164	99,9045	1
10402,7500	-3489,2500	-23,5000	50954,8945	99,9488	1
-3870,5000	-10014,0000	-20,7500	50901,7188	99,8445	1
-10071,5000	4023,2500	-57,0000	50989,2891	99,9837	1
984,2500	-10124,5000	3840,7500	51027,6328	99,9085	1
6715,2500	-8253,5000	2559,2500	51074,0703	99,8174	1
-184,7500	-10142,5000	-3552,2500	50950,0977	99,9394	1
-10135,5000	590,7500	-3576,2500	51006,8281	99,9493	1
1070,2500	10381,5000	-3585,2500	51028,4844	99,9069	1
10344,7500	-735,2500	-3559,2500	50950,3906	99,9400	1
-1011,2500	-3526,0000	10401,5000	50957,5820	99,9541	1
3965,0000	-5999,5000	-8075,5000	50997,4141	99,9678	1

MAGNETOMETER QUALITY SUMMARY

Average Calculated Magnetic Field	50980,8945	nT
Standard Deviation Calculated Magnetic Field	48,4992	nT

MAGNETOMETER GAIN AND OFFSET

	GAIN	OFFSET
MAG X	4,6745176315	-567,7295532227
MAG Y	4,6651411057	-635,3878784180
MAG Z	4,6494035721	-645,4288330078

Noise Level Value: 1,018514 cnts

Noise Level Cal Value: 0,0001 g

SIX ARM CALIPER SHOP CALIBRATION

Tool Name:	XRMI-I Mandrel - 10720056	Reference Calibration Date:	19-Dec-22 20:03:15
Engineer:	German Viera	Calibration Date:	19-Dec-22 20:12:01
Software Version:	WL INSITE R6.6.7 (Build 8)	Calibration Version:	3

CALIPERS AND RINGS

Caliper	Large 15,00 in	Small 7,000 in	Units
CALIPER 1-4:			
Measured	14,987	6,984	in
Calibrated	15,000	7,000	in
CALIPER 2-5:			
Measured	15,057	7,000	in
Calibrated	15,000	7,000	in

Measured	15,057	6,996	in
Calibrated	15,000	7,000	in
CALIPER 3-6:			
Measured	15,051	6,989	in
Calibrated	15,000	7,000	in

TOLERANCE CHECK

Measurment	Difference	Tolerance	Pass/Fail	Units
Caliper 1-4 Large	0,010	0,250	Passed	in
Caliper 1-4 Small	0,020	0,250	Passed	in
Caliper 2-5 Large	-0,060	0,250	Passed	in
Caliper 2-5 Small	0,000	0,250	Passed	in
Caliper 3-6 Large	-0,050	0,250	Passed	in
Caliper 3-6 Small	0,010	0,250	Passed	in

PRESSURE PAD

	Measured	Calibrated
Closed	0,002	0,000
Opened	1,000	1,000

SIX ARM CALIPER FIELD CALIBRATION

Tool Name:	XRMI-I Mandrel - 10720056	Reference Calibration Date:	19-Dec-22 20:12:01
Engineer:	Alexandre Nagao	Calibration Date:	19-Dec-22 20:18:56
Software Version:	WL INSITE R6.6.7 (Build 8)	Calibration Version:	2

CALIPERS AND RINGS

Caliper	Shop	Field	Difference	Tolerance	Units
Caliper 1-4	7,000	7,243	-0,243	0,250	in
Caliper 2-5	7,000	7,036	-0,036	0,250	in
Caliper 3-6	7,000	7,205	-0,205	0,250	in

PASS/FAIL SUMMARY

Ring Check: Passed

SIX ARM CALIPER POST CALIBRATION

Tool Name:	XRMI-I Mandrel - 10720056	Reference Calibration Date:	19-Dec-22 20:18:56
Engineer:	Alexandre Nagao	Calibration Date:	19-Dec-22 20:19:41
Software Version:	WL INSITE R6.6.7 (Build 8)	Calibration Version:	2

CALIPERS AND RINGS

Caliper	Field	Post	Difference	Tolerance	Units
Caliper 1-4	7,243	7,245	-0,002	0,250	in
Caliper 2-5	7,036	6,968	0,068	0,250	in
Caliper 3-6	7,205	7,261	-0,056	0,250	in

PASS/FAIL SUMMARY

Ring Check: Passed

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
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Depth Panel-12196061						
Tension Zero	0,00	-----	-----	0,00	-----	lbs
Tension Cal	7860,00	-----	-----	0,00	-----	lbs
RWCH-11622044						
DH Tension Zero	0,00	-----	-----	0,00	-----	lbs
DH Tension Cal	2786,10	-----	-----	0,00	-----	lbs
GTET-11405268						
Gamma Ray Calibrator	245,2	250,9	258,6	-7,7	+/- 9,00	api
DSNT-11732146						
Snow-Block Porosity	0,0686	-----	-----	0,0000	+/- -.--	decp
SDLT-10998370						
Pad Extension	3,75	3,69	3,69	0,00	+/-0,10	in
Ring Diameter	8,25	8,35	8,35	0,00	+/-0,15	in
SDLT Pad-11732135						
Near(B+D+P+L)	1475,379	-----	-----	0,000	+/-13,545	cps
Far(B+D+P+L)	996,228	-----	-----	0,000	+/-15,308	cps
XRMI-I Mandrel-10720056						
CAL 1-4	7,000	7,243	7,245	-0,002	+/- 0,250	in
CAL 2-5	7,000	7,036	6,968	0,068	+/- 0,250	in
CAL 3-6	7,000	7,205	7,261	-0,056	+/- 0,250	in

HALLIBURTON

INPUTS, DELAYS AND FILTERS TABLE

Mnemonic	Input Description	Delay (m)	Depth Filter Type	Depth Filter Length (m)	Time Filter Type	Time Filter Length (sec)
Depth Panel						
TENS	Tension	0,000	NO	-304.571 , -304.571	NO	-999.250 , -999.250
RWCH						
DHTN	DownholeTension	0,000	BLK	0.000 , -304.571	NO	-999.250 , -999.250
GTET						
TPUL	Tension Pull	32,933	NO	-304.571 , -304.571	NO	-999.250 , -999.250
GR	Natural Gamma Ray API	32,933	TRI	0.533 , -304.571	NO	-999.250 , -999.250
GRU	Unfiltered Natural Gamma Ray API	32,933	NO	-304.571 , -304.571	NO	-999.250 , -999.250
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	32,933	W	0.432 , 0.229	NO	-999.250 , -999.250
HDIA	Measured Hole Diameter	0,000	NO	-304.571 , -304.571	NO	-999.250 , -999.250
ACCZ	Accelerometer Z	0,000	BLK	0.025 , -304.571	NO	-999.250 , -999.250
DEVI	Inclination	0,000	NO	-304.571 , -304.571	NO	-999.250 , -999.250
DSNT						
TPUL	Tension Pull	29,810	NO	-304.571 , -304.571	NO	-999.250 , -999.250
RNDS	Near Detector Telemetry Counts	29,841	BLK	0.432 , -304.571	NO	-999.250 , -999.250
RFDS	Far Detector Telemetry Counts	30,069	TRI	0.178 , -304.571	NO	-999.250 , -999.250
DNTT	DSN Tool Temperature	29,841	NO	-304.571 , -304.571	NO	-999.250 , -999.250
DSNS	DSN Tool Status	29,810	NO	-304.571 , -304.571	NO	-999.250 , -999.250
ERND	Near Detector Telemetry Counts EVR	29,841	BLK	0.000 , -304.571	NO	-999.250 , -999.250

						-999.250 , -999.250
ERFD	Far Detector Telemetry Counts EVR	30,069	BLK	0.000 , -304.571	NO	-999.250 , -999.250
ENTM	DSN Tool Temperature EVR	29,841	NO	-304.571 , -304.571	NO	-999.250 , -999.250
HDIA	Measured Hole Diameter	0,000	NO	-304.571 , -304.571	NO	-999.250 , -999.250
SDLT						
TPUL	Tension Pull	26,793	NO	-304.571 , -304.571	NO	-999.250 , -999.250
PCAL	Pad Caliper	26,793	TRI	0.076 , -304.571	NO	-999.250 , -999.250
ACAL	Arm Caliper	26,793	TRI	0.076 , -304.571	NO	-999.250 , -999.250
XRMI-I Mandrel						
TPUL	Tension Pull	17,290	NO	-304.571 , -304.571	NO	-999.250 , -999.250
ARM1	Caliper 1 measurement	17,220	BLK	0.000 , -304.571	NO	-999.250 , -999.250
ARM2	Caliper 2 measurement	17,220	BLK	0.000 , -304.571	NO	-999.250 , -999.250
ARM3	Caliper 3 measurement	17,220	BLK	0.000 , -304.571	NO	-999.250 , -999.250
ARM4	Caliper 4 measurement	17,220	BLK	0.000 , -304.571	NO	-999.250 , -999.250
ARM5	Caliper 5 measurement	17,220	BLK	0.000 , -304.571	NO	-999.250 , -999.250
ARM6	Caliper 6 measurement	17,220	BLK	0.000 , -304.571	NO	-999.250 , -999.250
MOTV	Motor Voltage 1	17,220	BLK	0.000 , -304.571	NO	-999.250 , -999.250
PRES	Caliper percentage of total compression of the spring	16,447	BLK	0.000 , -304.571	NO	-999.250 , -999.250
HAZI	Hole Azimuth	17,220	NO	-304.571 , -304.571	NO	-999.250 , -999.250
RB	Relative Bearing	17,220	NO	-304.571 , -304.571	NO	-999.250 , -999.250
AZI1	PAD1 Azimuth	17,220	NO	-304.571 , -304.571	NO	-999.250 , -999.250
DEVI	Inclination	17,220	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WAVE Receivers						
TPUL	Tension Pull	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
XMS1	Wave Sonic Status Word 1	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
XMS2	Wave Sonic Status Word 2	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
XTS1	Wave Sonic XMITStatus Word 1	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
XTS2	Wave Sonic XMITStatus Word 2	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
F1HA	Dipole 1 HV After	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
F1HB	Dipole 1 HV Before	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
F2HA	Dipole 2 HV After	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
F2HB	Dipole 2 HV Before	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
F3HA	Monopole HV After	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
F3HB	Monopole HV Before	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
F4HA	Monopole 2 HV After	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
F4HB	Monopole 2 HV Before	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
INVT	Input Voltage	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
5VOL	5 Volts	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
MI5A	Minus 5 Volts Analog	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
ITMP	Instrument Temperature	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
PL5A	Plus 5 Volts Analog	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250

5VD	Plus 5 Volts Digital	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
TCUR	Tool Current	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
SUPV	Supply Voltage	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
PRVT	Preregulated voltage	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
PRVT	Pre-regulated voltage Xmter	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
TEMP	Temperature	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
ACQN	Acquisition Number	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
XDP	Delay Reference	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
MITM	MIT Mode	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
VERS	Version	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
SEQN	Sequence Number	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
FREV	Firmware Revision	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WVST	Wavesonic Compressed Data	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WVS4	Wavesonic Monopole 2 Compressed Data	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
TPUL	Tension Pull	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WMP	Summed array of Monopole for SIDES - A,B,C,D	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WM2P	Summed array of Monopole 2 for SIDES - A,B,C,D	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WXX	Dipole X for SIDES - A-C	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WYY	Dipole Y for SIDES - B-D	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WXY	Dipole X for SIDES - B-D	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WYX	Dipole Y for SIDES - A-C	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
TPUL	Tension Pull	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WMA	Monopole Waveform Side A - Channel 1 to Channel 8 Receivers	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WMB	Monopole Waveform Side B - Channel 1 to Channel 8 Receivers	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WMC	Monopole Waveform Side C - Channel 1 to Channel 8 Receivers	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WMD	Monopole Waveform Side D - Channel 1 to Channel 8 Receivers	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WM2A	Monopole 2 Waveform Side A - Channel 1 to Channel 8 Receivers	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WM2B	Monopole 2 Waveform Side B - Channel 1 to Channel 8 Receivers	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WM2C	Monopole 2 Waveform Side C - Channel 1 to Channel 8 Receivers	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WM2D	Monopole 2 Waveform Side D - Channel 1 to Channel 8 Receivers	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WXA	Dipole X Waveform Side A - Channel 1 to Channel 8 Receivers	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WXB	Dipole X Waveform Side B - Channel 1 to Channel 8 Receivers	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WXC	Dipole X Waveform Side C - Channel 1 to Channel 8 Receivers	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WXD	Dipole X Waveform Side D - Channel 1 to Channel 8 Receivers	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WYA	Dipole Y Waveform Side A - Channel 1 to Channel 8 Receivers	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WYB	Dipole Y Waveform Side B - Channel 1 to Channel 8 Receivers	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WYC	Dipole Y Waveform Side C - Channel 1 to Channel 8 Receivers	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250
WYD	Dipole Y Waveform Side D - Channel 1 to Channel 8 Receivers	9,549	NO	-304.571 , -304.571	NO	-999.250 , -999.250

ACRt Sonde

TPUL	Tension Pull	0,906	NO	-304.571 , -304.571	NO	-999.250 , -999.250
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F1R1	ACRT 12KHz - 80in R value	2,811	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F1X1	ACRT 12KHz - 80in X value	2,811	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F1R2	ACRT 12KHz - 50in R value	2,049	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F1X2	ACRT 12KHz - 50in X value	2,049	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F1R3	ACRT 12KHz - 29in R value	1,592	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F1X3	ACRT 12KHz - 29in X value	1,592	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F1R4	ACRT 12KHz - 17in R value	1,287	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F1X4	ACRT 12KHz - 17in X value	1,287	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F1R5	ACRT 12KHz - 10in R value	1,135	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F1X5	ACRT 12KHz - 10in X value	1,135	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F1R6	ACRT 12KHz - 6in R value	1,059	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F1X6	ACRT 12KHz - 6in X value	1,059	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F2R1	ACRT 36KHz - 80in R value	2,811	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F2X1	ACRT 36KHz - 80in X value	2,811	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F2R2	ACRT 36KHz - 50in R value	2,049	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F2X2	ACRT 36KHz - 50in X value	2,049	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F2R3	ACRT 36KHz - 29in R value	1,592	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F2X3	ACRT 36KHz - 29in X value	1,592	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F2R4	ACRT 36KHz - 17in R value	1,287	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F2X4	ACRT 36KHz - 17in X value	1,287	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F2R5	ACRT 36KHz - 10in R value	1,135	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F2X5	ACRT 36KHz - 10in X value	1,135	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F2R6	ACRT 36KHz - 6in R value	1,059	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F2X6	ACRT 36KHz - 6in X value	1,059	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F3R1	ACRT 72KHz - 80in R value	2,811	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F3X1	ACRT 72KHz - 80in X value	2,811	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F3R2	ACRT 72KHz - 50in R value	2,049	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F3X2	ACRT 72KHz - 50in X value	2,049	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F3R3	ACRT 72KHz - 29in R value	1,592	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F3X3	ACRT 72KHz - 29in X value	1,592	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F3R4	ACRT 72KHz - 17in R value	1,287	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F3X4	ACRT 72KHz - 17in X value	1,287	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F3R5	ACRT 72KHz - 10in R value	1,135	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F3X5	ACRT 72KHz - 10in X value	1,135	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F3R6	ACRT 72KHz - 6in R value	1,059	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F3X6	ACRT 72KHz - 6in X value	1,059	BLK	0.000 , -304.571	NO	-999.250 , -999.250
RMUD	Mud Resistivity	3,890	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F1RT	Transmitter Reference 12 KHz Real Signal	0,906	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F1XT	Transmitter Reference 12 KHz Imaginary Signal	0,906	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F2RT	Transmitter Reference 36 KHz Real Signal	0,906	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F2XT	Transmitter Reference 36 KHz Imaginary Signal	0,906	BLK	0.000 , -304.571	NO	-999.250 , -999.250

F3RT	Transmitter Reference 72 KHz Real Signal	0,906	BLK	0.000 , -304.571	NO	-999.250 , -999.250
F3XT	Transmitter Reference 72 KHz Imaginary Signal	0,906	BLK	0.000 , -304.571	NO	-999.250 , -999.250
TFPU	Upper Feedpipe Temperature Calculated	0,906	BLK	0.000 , -304.571	NO	-999.250 , -999.250
TFPL	Lower Feedpipe Temperature Calculated	0,906	BLK	0.000 , -304.571	NO	-999.250 , -999.250
ITMP	Instrument Temperature	0,906	BLK	0.000 , -304.571	NO	-999.250 , -999.250
TCVA	Temperature Correction Values Loop Off	0,906	NO	-304.571 , -304.571	NO	-999.250 , -999.250
TIDV	Instrument Temperature Derivative	0,906	NO	-304.571 , -304.571	NO	-999.250 , -999.250
TUDV	Upper Temperature Derivative	0,906	NO	-304.571 , -304.571	NO	-999.250 , -999.250
TLDV	Lower Temperature Derivative	0,906	NO	-304.571 , -304.571	NO	-999.250 , -999.250
TRBD	Receiver Board Temperature	0,906	NO	-304.571 , -304.571	NO	-999.250 , -999.250
HDIA	Measured Hole Diameter	0,000	NO	-304.571 , -304.571	NO	-999.250 , -999.250
SDLT Pad						
TPUL	Tension Pull	26,790	NO	-304.571 , -304.571	NO	-999.250 , -999.250
NAB	Near Above	26,737	BLK	0.280 , -304.571	NO	-999.250 , -999.250
NHI	Near Cesium High	26,737	BLK	0.280 , -304.571	NO	-999.250 , -999.250
NLO	Near Cesium Low	26,737	BLK	0.280 , -304.571	NO	-999.250 , -999.250
NVA	Near Valley	26,737	BLK	0.280 , -304.571	NO	-999.250 , -999.250
NBA	Near Barite	26,737	BLK	0.280 , -304.571	NO	-999.250 , -999.250
NDE	Near Density	26,737	BLK	0.280 , -304.571	NO	-999.250 , -999.250
NPK	Near Peak	26,737	BLK	0.280 , -304.571	NO	-999.250 , -999.250
NLI	Near Lithology	26,737	BLK	0.280 , -304.571	NO	-999.250 , -999.250
NBAU	Near Barite Unfiltered	26,737	BLK	0.076 , -304.571	NO	-999.250 , -999.250
NLIU	Near Lithology Unfiltered	26,737	BLK	0.076 , -304.571	NO	-999.250 , -999.250
FAB	Far Above	26,844	BLK	0.076 , -304.571	NO	-999.250 , -999.250
FHI	Far Cesium High	26,844	BLK	0.076 , -304.571	NO	-999.250 , -999.250
FLO	Far Cesium Low	26,844	BLK	0.076 , -304.571	NO	-999.250 , -999.250
FVA	Far Valley	26,844	BLK	0.076 , -304.571	NO	-999.250 , -999.250
FBA	Far Barite	26,844	BLK	0.076 , -304.571	NO	-999.250 , -999.250
FDE	Far Density	26,844	BLK	0.076 , -304.571	NO	-999.250 , -999.250
FPK	Far Peak	26,844	BLK	0.076 , -304.571	NO	-999.250 , -999.250
FLI	Far Lithology	26,844	BLK	0.076 , -304.571	NO	-999.250 , -999.250
PTMP	Pad Temperature	26,793	BLK	0.280 , -304.571	NO	-999.250 , -999.250
NHV	Near Detector High Voltage	26,609	NO	-304.571 , -304.571	NO	-999.250 , -999.250
FHV	Far Detector High Voltage	26,609	NO	-304.571 , -304.571	NO	-999.250 , -999.250
ITMP	Instrument Temperature	26,609	NO	-304.571 , -304.571	NO	-999.250 , -999.250
DDHV	Detector High Voltage	26,609	NO	-304.571 , -304.571	NO	-999.250 , -999.250
HDIA	Measured Hole Diameter	0,000	NO	-304.571 , -304.571	NO	-999.250 , -999.250

SP Ring						
PLTC	Plot Control Mask	0,567	NO	-304.571 , -304.571	NO	-999.250 , -999.250
SP	Spontaneous Potential	0,567	BLK	0.381 , -304.571	NO	-999.250 , -999.250
SPR	Raw Spontaneous Potential	0,567	NO	-304.571 , -	NO	-999.250 , -

SPI	Raw Spontaneous Potential	0,007	NO	304.571	NO	999.250
SPO	Spontaneous Potential Offset	0,567	NO	-304.571, -304.571	NO	-999.250, -999.250

Data: MSD-GT-01-P\0001 HVC-GTET-DSLTD-SNT-FLEX-XRMI-WSTT\IDLE

Date: 30-Dec-22 09:13:43

HALLIBURTON

OUTPUTS TABLE

Mnemonic	Output Description	Filter Length (m)	Filter Type
Depth Panel			
TPUL	Tension Pull		NO
TENS	Tension		NO
TSW	Tool String Weight		NO
LSPD	Line Speed		NO
BS	Bit Size		NO

MINM	Minute Mark Flag	NO
MGMK	Magnetic Mark Flag	NO
CSOD	Casing Outer Diameter	NO
ICV	Instrument Cable Voltage	NO
ICA	Instrument Cable Current	NO
ACV	Auxiliary Set Voltage	NO
TNSR	Tension Cal Raw Value	NO
WL1V	Wire Line 1 Voltage	NO
WL2V	Wire Line 2 Voltage	NO
WL3V	Wire Line 3 Voltage	NO
WL4V	Wire Line 4 Voltage	NO
WL5V	Wire Line 5 Voltage	NO
WL6V	Wire Line 6 Voltage	NO
WL1C	Wire Line 1 Current	NO
WL2C	Wire Line 2 Current	NO
WL3C	Wire Line 3 Current	NO
WL4C	Wire Line 4 Current	NO
WL5C	Wire Line 5 Current	NO
WL6C	Wire Line 6 Current	NO
WLFC	Wire Line Fault Current	NO
PLTC	Plot Control Mask	NO
CSID	Casing Inner Diameter	NO
CS	Casing Outer Diameter	NO
CSTH	Casing Thickness	NO
CID1	Casing Inner Diameter 1	NO
CS1	Casing Outer Diameter 1	NO
CTH1	Casing Thickness 1	NO
CID2	Casing Inner Diameter 2	NO
CS2	Casing Outer Diameter 2	NO
CTH2	Casing Thickness 2	NO
CID3	Casing Inner Diameter 3	NO
CS3	Casing Outer Diameter 3	NO
CTH3	Casing Thickness 3	NO
CID4	Casing Inner Diameter 4	NO
CS4	Casing Outer Diameter 4	NO
CTH4	Casing Thickness 4	NO
CID5	Casing Inner Diameter 5	NO
CS5	Casing Outer Diameter 5	NO
CTH5	Casing Thickness 5	NO
CID6	Casing Inner Diameter 6	NO
CS6	Casing Outer Diameter 6	NO
CTH6	Casing Thickness 6	NO
TCTH	Total Casing Thickness	NO

RWCH

BTMP	Borehole Temperature	1,295	BLK
DLOD	Down Hole Load Cell Measurement		NO
DHLP	Down Hole Load Cell Positive Measurement		NO
DHLN	Down Hole Load Cell Negative Measurement		NO
DHTN	DownholeTension		NO

GTET

ACCZ	Accelerometer Z	NO
DEVI	Inclination	NO
BTMP	Borehole Temperature	NO
PLTC	Plot Control Mask	NO
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	NO

EGRC	Natural Gamma Ray API with Enhanced Vertical Resolution and BHC	NO
PLTC	Plot Control Mask	NO
BHAB	Borehole Absorption	NO
BHCN	Borehole Correction	NO
ICID	Inner Casing ID	NO
KCTN	Pottassium Correction	NO
PLTC	Plot Control Mask	NO
GR	Natural Gamma Ray API	NO
GRCO	Natural Gamma Ray API Borehole Corrected	NO
PLTC	Plot Control Mask	NO
BHAB	Borehole Absorption	NO
BHCN	Borehole Correction	NO
ICID	Inner Casing ID	NO
KCTN	Pottassium Correction	NO

DSNT

PLTC	Plot Control Mask	NO
EDLI	Neutron Lithology EVR	NO
ENPH	Neutron Porosity EVR	NO
ENPS	Neutron Porosity Sandstone Matrix EVR	NO
ENLI	Neutron Porosity Limestone Matrix EVR	NO
ENPD	Neutron Porosity Dolomite Matrix EVR	NO
ENRA	DSN Near to Far Ratio EVR	NO
ENDS	Near Detector Telemetry Counts EVR	NO
EFDS	Far Detector Telemetry Counts EVR	NO
PLTC	Plot Control Mask	NO
NPHI	Neutron Porosity	NO
NDSN	Near Detector Telemetry Counts	NO
FDSN	Far Detector Telemetry Counts	NO
NRAT	DSN Near to Far Ratio	NO
NLIT	Neutron Lithology	NO
NLIM	Neutron Porosity Limestone Matrix	NO
NPHS	Neutron Porosity Sandstone Matrix	NO
NPHD	Neutron Porosity Dolomite Matrix	NO
NPHU	Neutron Limestone Porosity No Salinity	NO
PLTC	Plot Control Mask	NO
UNPL	Uncorrected Neutron Porosity Lime	NO
UNPS	Uncorrected Neutron Porosity Sand	NO
UNPD	Uncorrected Neutron Porosity Dolo	NO
BSC	Borehole Size Correction	NO
MCTC	Mud Cake Thickness Correction	NO
BHSC	Bore Hole Salinity Correction	NO
MWC	Mud Weight Correction	NO
FTC	Formation Temperature Correction	NO
FPC	Formation Pressure Correction	NO
TSOC	Tool Standoff Correction	NO
FSCL	Formation Salinity Correction LS	NO
FSCS	Formation Salinity Correction SS	NO
FSDO	Formation Salinity Correction DO	NO
FSIL	Formation Sigma & HI Correction LS	NO
FSIS	Formation Sigma & HI Correction SS	NO
FSID	Formation Sigma & HI Correction DO	NO
MUDW	Computed Mud Weight	NO
CSGT	Casing Thickness Correction	NO
CMTC	Cement Thickness Correction	NO
BSCN	Neutron Porosity - Bore Hole Size Corrected	NO

BSCL	Neutron Porosity - Bore Hole Size Corrected Lime	NO
BSCS	Neutron Porosity - Bore Hole Size Corrected Sand	NO
BSCD	Neutron Porosity - Bore Hole Size Corrected Dolomite	NO
TEMP	Temperature	NO
PRES	Presssure	NO
CALU	Caliper Used	NO
SDOU	StandOff Used	NO

SDLT

PLTC	Plot Control Mask	NO
CALI	Caliper Measurement	NO
DCAL	Differential Caliper Measurement	NO
BHV	Borehole Volume Increment	NO
AHV	Annular Hole Volume Increment	NO
BHVT	Bore Hole Volume	NO
AHVT	Annular Hole Volume	NO
HDIA	Measured Hole Diameter	NO
ACAL	Arm Caliper	NO
PCAL	Pad Caliper	NO

XRMI-I Instrument

PLTC	Plot Control Mask	NO
MTMP	Magnetometer Temperature	NO
IAMP	Accelerometer Temperature	NO
ACCX	Accelerometer X	NO
ACCY	Accelerometer Y	NO
ACCZ	Accelerometer Z	NO
MAGX	magnetometer x with unit	NO
MAGY	Magnetometer Y with unit	NO
MAGZ	magnetometer z with unit	NO
BZC	magnetometer with unit after the correction	NO
HAZI	Hole Azimuth	NO
DEVI	Inclination	NO
RB	Relative Bearing	NO
AZI1	PAD1 Azimuth	NO
TLFC	Tool Face	NO
MAGD	Magnetic dip for directional tool	NO
GTOT	Total Gravity Field measure by directional tool	NO
BTOT	total magnetic field for directional tool	NO
ACCQ	Accelerometer Quality	NO
MAGQ	Magnetometer Quality	NO
LOCG	Local Gravity Field	NO
LMAG	Local magnetic field for directional tool	NO
HAZC	Hole Azimuth Corrected	NO
PLTC	Plot Control Mask	NO
MTMP	Magnetometer Temperature	NO
IAMP	Accelerometer Temperature	NO
ACCX	Accelerometer X	NO
ACCY	Accelerometer Y	NO
ACCZ	Accelerometer Z	NO
MAGX	magnetometer x with unit	NO
MAGY	Magnetometer Y with unit	NO
MAGZ	magnetometer z with unit	NO
BZC	magnetometer with unit after the correction	NO
HAZI	Hole Azimuth	NO
DEVI	Inclination	NO
RB	Relative Bearing	NO

AZI1	PAD1 Azimuth	NO
TLFC	Tool Face	NO
MAGD	Magnetic dip for directional tool	NO
GTOT	Total Gravity Field measure by directional tool	NO
BTOT	total magnetic field for directional tool	NO
ACCQ	Accelerometer Quality	NO
MAGQ	Magnetometer Quality	NO
LOCG	Local Gravity Field	NO
LMAG	Local magnetic field for directional tool	NO
HAZC	Hole Azimuth Corrected	NO

XRMI-I Mandrel

PLTC	Plot Control Mask	NO
CALA	Caliper Measurement	NO
DCAL	Differential Caliper	NO
BHVT	Bore Hole Volume	NO
AHVT	Annular Hole Volume	NO
BHV	Borehole Volume Increment	NO
AHV	Annular Hole Volume Increment	NO
PRES	Caliper percentage of total compression of the spring	NO
MOT1	Motor Voltage 1	NO
HDIA	Measured Hole Diameter	NO
RAD1	Radius Caliper Arm 1	NO
RAD2	Radius Caliper Arm 2	NO
RAD3	Radius Caliper Arm 3	NO
RAD4	Radius Caliper Arm 4	NO
RAD5	Radius Caliper Arm 5	NO
RAD6	Radius Caliper Arm 6	NO
CAL1	Caliper 1	NO
CAL2	Caliper 2	NO
CAL3	Caliper 3	NO
CAL4	Caliper 4	NO
CAL5	Caliper 5	NO
CAL6	Caliper 6	NO
C14	Four Arm Caliper arms 1 & 4	NO
C25	Four Arm Caliper arms 2 & 5	NO
C36	Four Arm Caliper arms 3 & 6	NO
DMAX	Maxmum Caliper Pair	NO
DMIN	Minimum Caliper Pair	NO
HAZI	Hole Azimuth	NO
RB	Relative Bearing	NO
AZI1	PAD1 Azimuth	NO
DEVI	Inclination	NO
RMAX	Radius Maximum Limit	NO
RMIN	Radius Mimimum Limit	NO

WAVE Receivers

TPUL	Tension Pull	NO
WMP	Summed array of Monopole for SIDES - A,B,C,D	NO
WM2P	Summed array of Monopole 2 for SIDES - A,B,C,D	NO
WXX	Dipole X for SIDES - A-C	NO
WYY	Dipole Y for SIDES - B-D	NO
WXY	Dipole X for SIDES - B-D	NO
WYX	Dipole Y for SIDES - A-C	NO
TPUL	Tension Pull	NO
WMA	Monopole Waveform Side A - Channel 1 to Channel 8 Receivers	NO
WMB	Monopole Waveform Side B - Channel 1 to Channel 8 Receivers	NO

WMB	Monopole Waveform Side B - Channel 1 to Channel 8 Receivers	NO
WMC	Monopole Waveform Side C - Channel 1 to Channel 8 Receivers	NO
WMD	Monopole Waveform Side D - Channel 1 to Channel 8 Receivers	NO
WM2A	Monopole 2 Waveform Side A - Channel 1 to Channel 8 Receivers	NO
WM2B	Monopole 2 Waveform Side B - Channel 1 to Channel 8 Receivers	NO
WM2C	Monopole 2 Waveform Side C - Channel 1 to Channel 8 Receivers	NO
WM2D	Monopole 2 Waveform Side D - Channel 1 to Channel 8 Receivers	NO
WXA	Dipole X Waveform Side A - Channel 1 to Channel 8 Receivers	NO
WXB	Dipole X Waveform Side B - Channel 1 to Channel 8 Receivers	NO
WXC	Dipole X Waveform Side C - Channel 1 to Channel 8 Receivers	NO
WXD	Dipole X Waveform Side D - Channel 1 to Channel 8 Receivers	NO
WYA	Dipole Y Waveform Side A - Channel 1 to Channel 8 Receivers	NO
WYB	Dipole Y Waveform Side B - Channel 1 to Channel 8 Receivers	NO
WYC	Dipole Y Waveform Side C - Channel 1 to Channel 8 Receivers	NO
WYD	Dipole Y Waveform Side D - Channel 1 to Channel 8 Receivers	NO
DPFT	Dipole Firing Waveform Time	NO
DPFF	Dipole Firing Waveform Frequency	NO
MPFT	Monopole Firing Waveform Time	NO
MPFF	Monopole Firing Waveform Frequency	NO
M2FT	Monopole 2 Firing Waveform Time	NO
M2FF	Monopole 2 Firing Waveform Frequency	NO
FERR	Error XDAQ Filters not the same!	NO
X1ID	XDAQ 1 ID	NO
X1B1	XDAQ 1 Filter Bank 1	NO
X1B2	XDAQ 1 Filter Bank 2	NO
X1B3	XDAQ 1 Filter Bank 3	NO
X1B4	XDAQ 1 Filter Bank 4	NO
X2ID	XDAQ 2 ID	NO
X2B1	XDAQ 2 Filter Bank 1	NO
X2B2	XDAQ 2 Filter Bank 2	NO
X2B3	XDAQ 2 Filter Bank 3	NO
X2B4	XDAQ 2 Filter Bank 4	NO
PLTC	Plot Control Mask	NO
MDT	Monopole Delta T	NO
MDT2	Monopole 2 Delta T	NO
MDTF	Monopole Peak Slowness filtered	NO
MSBP	Monopole Semblance Peak Value	NO
MSB2	Monopole 2 Semblance Peak Value	NO
SPHI	Acoustic Porosity	NO
SPHS	Acoustic Porosity Sandstone	NO
SPHL	Acoustic Porosity Limestone	NO
SPHD	Acoustic Porosity Dolomite	NO
SPHW	Acoustic Porosity Wylie	NO
SPHA	Acoustic Porosity - Argentime	NO
SPHR	Aco Por - Raymer, Hunt, Gardner	NO
SPHH	Acoustic Porosity - Empirical HLS	NO
ITTI	Travel Time Per Depth Sample	NO
ITTT	Integrated Travel Time Total	NO
DXDT	Dipole X Delta T, no dispersion correction	NO
XDT2	X Dipole Peak Slowness filtered	NO
XSBP	X Dipole Semblance Peak Value	NO
VPVX	Velocity Ratio X	NO
PRX	Poisson's Ratio X	NO
DYDT	Dipole Y Delta T, no dispersion correction	NO
YDT2	Y Dipole Peak Slowness filtered	NO
YSBP	Y Dipole Semblance Peak Value	NO
VPVY	Velocity Ratio Y	NO

	Personality Name	NO
PRY	Poisson's Ratio Y	NO
FRMC	Tool Frame Count	NO
SBM	Monopole Semblance Waveform	NO
SBX	Dipole X Semblance Waveform	NO
SBY	Dipole Y Semblance Waveform	NO
SBM2	Monopole 2 Semblance Waveform	NO
MWV	Monopole Waveform	NO
DXWX	Dipole X Waveform	NO
DYYW	Dipole Y Waveform	NO
MWV2	Monopole 2 Waveform	NO
PLTC	Plot Control Mask	NO
XMS1	Wave Sonic Status Word 1	NO
XMS2	Wave Sonic Status Word 2	NO
XTS1	Wave Sonic XMITStatus Word 1	NO
XTS2	Wave Sonic XMITStatus Word 2	NO
F1HA	Dipole 1 HV After	NO
F1HB	Dipole 1 HV Before	NO
F2HA	Dipole 2 HV After	NO
F2HB	Dipole 2 HV Before	NO
F3HA	Monopole HV After	NO
F3HB	Monopole HV Before	NO
F4HA	Monopole 2 HV After	NO
F4HB	Monopole 2 HV Before	NO
INVT	Input Voltage	NO
5VOL	5 Volts	NO
MI5A	Minus 5 Volts Analog	NO
ITMP	Instrument Temperature	NO
PL5A	Plus 5 Volts Analog	NO
5VD	Plus 5 Volts Digital	NO
TCUR	Tool Current	NO
SUPV	Supply Voltage	NO
PRVT	Preregulated voltage	NO
PRVT	Pre-regulated voltage Xmter	NO
TEMP	Temperature	NO
ACQN	Acquisition Number	NO
XDP	Delay Reference	NO
MITM	MIT Mode	NO
VERS	Version	NO
SEQ	Sequence Number	NO
FREV	Firmware Revision	NO
MWLV	Monopole Left Value	NO
MWRV	Monopole Right Value	NO
MSL	Monopole Lower Travel Time	NO
MSH	Monopole Upper Travel Time	NO
MMUT	Monopole Mute	NO
M2LV	Monopole-2 Left Value	NO
M2RV	Monopole-2 Right Value	NO
M2SL	Monopole-2 Lower Travel Time	NO
M2SH	Monopole-2 Upper Travel Time	NO
M2MU	Monopole-2 Mute	NO
DXLV	Dipole X Left Value	NO
DXRV	Dipole X Right Value	NO
XSL	X Dipole Lower Slowness	NO
XSH	X Dipole Upper Slowness	NO
XMUT	X Dipole Mute	NO
DYLV	Dipole Y Left Value	NO

DYRV	Dipole Y Right Value	NO
YSL	Y Dipole Lower Slowness	NO
YSH	Y Dipole Upper Slowness	NO
YMUT	Y Dipole Mute	NO
EMA	Monopole Total Spectral Energy on A	NO
EMB	MonopoleTotal Spectral Energy on B	NO
EMC	MonopoleTotal Spectral Energy on C	NO
EMD	MonopoleTotal Spectral Energy on D	NO
ELMA	Monopole 400 - 2000 Hz filtered Spectral Energy on A	NO
ELMB	Monopole 400 - 2000 Hz filtered Spectral Energy on B	NO
ELMC	Monopole 400 - 2000 Hz filtered Spectral Energy on C	NO
ELMD	Monopole 400 - 2000 Hz filtered Spectral Energy on D	NO
EHMA	Monopole Normalized to A Total Spectral Energy on A	NO
EHMB	Monopole Normalized to A Total Spectral Energy on B	NO
EHMC	Monopole Normalized to A Total Spectral Energy on C	NO
EHMD	Monopole Normalized to A Total Spectral Energy on D	NO
EMON	Monopole signal energy on A+B+C+D	NO
EXAC	x-inline signal energy	NO
EXBD	x-crossline signal energy	NO
EYAC	y-crossline signal energy	NO
EYBD	y-inline signal energy	NO
ENMA	Monopole Normalized to A 400 - 2000 Hz Spectral Energy on A	NO
ENMB	Monopole Normalized to A 400 - 2000 Hz Spectral Energy on B	NO
ENMC	Monopole Normalized to A 400 - 2000 Hz Spectral Energy on C	NO
ENMD	Monopole Normalized to A 400 - 2000 Hz Spectral Energy on D	NO
ETMA	Monopole Total RMS Time energy on A	NO
ETMB	Monopole Total RMS Time energy on B	NO
ETMC	Monopole Total RMS Time energy on C	NO
ETMD	Monopole Total RMS Time energy on D	NO
ETFA	Monopole 400-2000Hz filtered RMS Time energy on A	NO
ETFB	Monopole 400-2000Hz filtered RMS Time energy on B	NO
ETFC	Monopole 400-2000Hz filtered RMS Time energy on C	NO
ETFD	Monopole 400-2000Hz filtered RMS Time energy on D	NO
ETNA	Monopole Normalized Total RMS Time energy on A	NO
ETNB	Monopole Normalized Total RMS Time energy on B	NO
ETNC	Monopole Normalized Total RMS Time energy on C	NO
ETND	Monopole Normalized Total RMS Time energy on D	NO
ETFA	Monopole Normalized 400-2000Hz filtered RMS Time energy on A	NO
ETFB	Monopole Normalized 400-2000Hz filtered RMS Time energy on B	NO
ETFC	Monopole Normalized 400-2000Hz filtered RMS Time energy on C	NO
ETFD	Monopole Normalized 400-2000Hz filtered RMS Time energy on D	NO
E2MA	Monopole-2 Total RMS Time energy on A	NO
E2MB	Monopole-2 Total RMS Time energy on B	NO
E2MC	Monopole-2 Total RMS Time energy on C	NO
E2MD	Monopole-2 Total RMS Time energy on D	NO
E2FA	Monopole-2 400-2000Hz filtered RMS Time energy on A	NO
E2FB	Monopole-2 400-2000Hz filtered RMS Time energy on B	NO
E2FC	Monopole-2 400-2000Hz filtered RMS Time energy on C	NO
E2FD	Monopole-2 400-2000Hz filtered RMS Time energy on D	NO
E2NA	Monopole-2 Normalized Total RMS Time energy on A	NO
E2NB	Monopole-2 Normalized Total RMS Time energy on B	NO
E2NC	Monopole-2 Normalized Total RMS Time energy on C	NO
E2ND	Monopole-2 Normalized Total RMS Time energy on D	NO
F2NA	Monopole-2 Normalized 400-2000Hz filtered RMS Time energy on A	NO
F2NB	Monopole-2 Normalized 400-2000Hz filtered RMS Time energy on B	NO
F2NC	Monopole-2 Normalized 400-2000Hz filtered RMS Time energy on C	NO

F2ND	Monopole-2 Normalized 400-2000Hz filtered RMS Time energy on D	NO
PLTC	Plot Control Mask	NO
DT	Sonic Delta-T	NO
QT1	Semblance Quality	NO
ITTT	Integrated Travel Time Total	NO
ITTI	Travel Time Per Depth Sample	NO
SPHI	Acoustic Porosity	NO
	Shear Source	NO
DTS	Shear Delta-T	NO
	Semblance Quality Shear	NO
VPVS	VPVS Ratio for Porosity	NO
POIR	Poisson's Ratio	NO

ACRt Sonde

PLTC	Plot Control Mask	NO
RO90	90in Resistivity 1ft Res	NO
RO60	60 in Radial Resistivity 1ft	NO
RO30	30 in Radial Resistivity 1ft	NO
RO20	20 in Radial Resistivity 1ft	NO
RO10	10 in Radial Resistivity 1ft	NO
RO06	6 in Radial Resistivity 1ft	NO
RT90	90 in Radial Resistivity 2ft	NO
RT60	60 in Radial Resistivity 2ft	NO
RT30	30 in Radial Resistivity 2ft	NO
RT20	20 in Radial Resistivity 2ft	NO
RT10	10 in Radial Resistivity 2ft	NO
RT06	6 in Radial Resistivity 2ft	NO
RF90	90 in Radial Resistivity 4ft	NO
RF60	60 in Radial Resistivity 4ft	NO
RF30	30 in Radial Resistivity 4ft	NO
RF20	20 in Radial Resistivity 4ft	NO
RF10	10 in Radial Resistivity 4ft	NO
RF06	6 in Radial Resistivity 4ft	NO
CO90	90 in Radial Conductivity 1ft	NO
CO60	60 in Radial Conductivity 1ft	NO
CO30	30 in Radial Conductivity 1ft	NO
CO20	20 in Radial Conductivity 1ft	NO
CO10	10 in Radial Conductivity 1ft	NO
CO6	6 in Radial Conductivity 1ft	NO
CT90	90 in Radial Conductivity 2ft	NO
CT60	60 in Radial Conductivity 2ft	NO
CT30	30 in Radial Conductivity 2ft	NO
CT20	20 in Radial Conductivity 2ft	NO
CT10	10 in Radial Conductivity 2ft	NO
CT6	6 in Radial Conductivity 2ft	NO
CF90	90 in Radial Conductivity 4ft	NO
CF60	60 in Radial Conductivity 4ft	NO
CF30	30 in Radial Conductivity 4ft	NO
CF20	20 in Radial Conductivity 4ft	NO
CF10	10 in Radial Conductivity 4ft	NO
CF6	6 in Radial Conductivity 4ft	NO
LMAN	Left Mandrel	NO
RMAN	Right Mandrel	NO
RSO	Right Standoff	NO
LSO	Left Standoff	NO
TMPF	Upper Feedpipe Temperature Calculated	NO
ECG	Event Cyclic Diagram for each event in the survey	NO

ECC	Eccentricity - Distance from tool center to hole center		NO
CDIA	Calculated Diameter		NO
RT	Uninvaded Zone Resistivity		NO
RXO	Invaded Zone Resistivity		NO
RXRT	RXO/RT		NO
DI	Radial Depth of Invasion		NO
DIIN	Radial Depth of Inner Invasion		NO
DIOU	Radial Depth of Outer Invasion		NO
SMUD	Mud Resistivity - Calculated		NO
RMUD	Mud Resistivity		NO
X4PL	X4Planner=RT90/RMUD*square(0.125-caliper)		NO
BCD1	Borehole Corrections D1		NO
BCD2	Borehole Corrections D2		NO
BCD3	Borehole Corrections D3		NO
BCD4	Borehole Corrections D4		NO
BCU5	Borehole Corrections U5		NO
BCD6	Borehole Corrections D6		NO
SED1	Skin Effect Corrections D1		NO
SED2	Skin Effect Corrections D2		NO
SED3	Skin Effect Corrections D3		NO
SED4	Skin Effect Corrections D4		NO
SEU5	Skin Effect Corrections U5		NO
SED6	Skin Effect Corrections D6		NO
QBC1	BHC Quality 1		NO
QBC2	BHC Quality 2		NO
QBC3	BHC Quality 3		NO
QBC4	BHC Quality 4		NO
QBC5	BHC Quality 5		NO
QBC6	BHC Quality 6		NO
QFBC	BHC Quality Status 1		NO
QFBC	BHC Quality Status 2		NO
QFBC	BHC Quality Status 3		NO
QFBC	BHC Quality Status 4		NO
QFBC	BHC Quality Status 5		NO
QFBC	BHC Quality Status 6		NO
CALU	Caliper Used		NO
CALM	caliper measurement indicator		NO
RGMD	Rmud Gradient Calculation		NO
HRM1	Rt Resistivity MAP - One Foot		NO
HRM2	Rt Resistivity Map - Two Ft		NO
HRM4	Rt Resistivity Map - Four Ft		NO

SDLT Pad

PLTC	Plot Control Mask		NO
ERHO	Formation Density Enhanced Vertical Resolution	0,329 , 0,229	W
EDCP	Density Correction EVR Positive	0,329 , 0,229	W
EDCN	Density Correction EVR Negative	0,329 , 0,229	W
EDCT	Density Correction EVR	0,329 , 0,229	W
EDPH	Formation Density Porosity - Enhanced Vertical Resolution	0,329 , 0,229	W
EDLI	Formation Density Porosity - Limestone EVR	0,329 , 0,229	W
EDPD	Formation Density Porosity - Dolomite - EVR	0,329 , 0,229	W
EDPS	Formation Density Porosity - Sandstone - EVR	0,329 , 0,229	W
EPE	Photoelectric Factor Enhanced Vertical Resolution	0,329 , 0,177	W
EPMF	Photoelectric Factor EVR - Minimum Filtering	0,128 , 0,076	W
EDMF	Formation Density EVR - Minimum Filtering	0,128 , 0,076	W
NDEE	Near Density EVR	0,329 , 0,229	W
FDEE	Far Density EVR	0,329 , 0,229	W

DTOK	Density Data OK		NO
PLTC	Plot Control Mask		NO
RHOB	Formation Density	0,533	TRI
CORP	Positive Density Correction	0,533	TRI
CORM	Negative Density Correction	0,533	TRI
DRHO	Density Correction	0,533	TRI
PE	Photoelectric Factor	0,533	TRI
DPE	Photoelectric Factor Correction	0,533	TRI
SDSO	Tool Standoff	0,533	TRI
QN	Near Quality	0,533	TRI
QF	Far Quality	0,533	TRI
DPHI	Formation Density Porosity	0,533	TRI
DLIM	Formation Density Porosity - Limestone	0,533	TRI
DPHD	Formation Density Porosity - Dolomite	0,533	TRI
DPHS	Formation Density Porosity - Sandstone	0,533	TRI
RHON	Formation Density computed from near detector	0,533	TRI
RHOF	Formation Density computed from far detector	0,533	TRI
NBAC	Near Barite Calibrated		NO
NDEC	Near Density Calibrated		NO
NPKC	Near Peak Calibrated		NO
NLIC	Near Lithology Calibrated		NO
FBAC	Far Barite Calibrated		NO
FDEC	Far Density Calibrated		NO
FPKC	Far Peak Calibrated		NO
FLIC	Far Lithology Calibrated		NO
DTOK	Density Data OK		NO

SP Ring

PLTC	Plot Control Mask	NO
SP	Spontaneous Potential	NO
SPR	Raw Spontaneous Potential	NO
SPO	Spontaneous Potential Offset	NO
Data: MSD-GT-01-P\0001 HVC-GTET-DSLT-DSNT-FLEX-XRMI-WSTT\IDLE		Date: 30-Dec-22 09:14:05

HALLIBURTON

PARAMETERS REPORT

Depth (m)	Tool Name	Mnemonic	Description	Value	Units
TOP	SHARED	BS	Bit Size	12,250	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Oil	
	SHARED	MDWT	Borehole Fluid Weight	1,1600	g/cc
	SHARED	WAGT	Weighting Agent	Barite	
	SHARED	BSAL	Borehole salinity	0,00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0,00	ppm

SHARED	WPHS	OBM Water Phase Salinity NaCl	48000,00	ppm
SHARED	OFOW	Base Oil Fraction from Oil/Water Ratio	1,00	
SHARED	OBMT	Oil based Mud Type	Diesel	
SHARED	KPCT	Percent K in Mud by Weight?	0,00	%
SHARED	CSD	Logging Interval is Cased?	No	
SHARED	ICOD	AHV Casing OD	9,625	in
SHARED	CSTR	Compressive Strength	1000,00	psia
SHARED	ST	Surface Temperature	10,0	degC
SHARED	TD	Total Well Depth	3306,000	m
SHARED	BHT	Bottom Hole Temperature	100,0	degC
SHARED	SVTM	Navigation and Survey Master Tool	XRMI-I Instrument	
SHARED	AZTM	High Res Z Accelerometer Master Tool	XRMI-I Instrument	
SHARED	TEMM	CBM Temperature Master Tool	GTET	
SHARED	CACL	Calcium-weighted OBM CaCl2 weight %	30,00	%
SHARED	OBMS	Calicum-weighted OBM solids volume in v/v	0,18	
SHARED	OBMW	Calcium-weighted OBM water volume in v/v	0,16	
GTET	ACOK	Do ACCZ Calculations?	Yes	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
GTET	BHSM	Borehole Size Source Tool	XRMI-I Mandrel	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0,250	in
DSNT	DNTT	Temperature Correction Type	Gradient	
DSNT	DNTT	Top Zone Temperature Value	10,0	degC
DSNT	DNBT	DSN Bottom Zone Temperature Value	100,0	degC
DSNT	DTDT	Top Depth for Temperature Gradient Calculation (Measured Depth)	0,0	m
DSNT	DBDT	Bottom Zone Temperature Depth (Measured Depth)	3306,0	m
DSNT	DPRS	DSN Pressure Correction Type	Mud Weight	
DSNT	SHCO	View More Correction Options	Yes	
DSNT	HSCO	Correct for Holesize?	Yes	
DSNT	MCCO	Correct for Mud Cake?	No	
DSNT	MWCO	Correct for Mud Weight?	Yes	
DSNT	BSCO	Correct for Borehole Salinity?	No	
DSNT	FSCO	Correct for Formation Salinity?	No	
DSNT	SGCO	Correct for Formation Sigma?	No	
DSNT	CTCO	Correct for Casing Thickness?	Yes	
DSNT	CMCO	Correct for Cement Thickness?	Yes	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
DSNT	UCLA	Classic Neutron Parameter utilized?	No	
DSNT	BHSM	Borehole Size Source Tool	XRMI-I Mandrel	
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT Pad	DNOK	Process Density?	Yes	
SDLT Pad	DNOK	Process Density EVR?	No	
SDLT Pad	CB	Logging Calibration Blocks?	No	
SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT Pad	DTWN	Disable temperature warning	No	
SDLT Pad	DMA	Formation Density Matrix	2,710	g/cc
SDLT Pad	DFL	Formation Density Fluid	1,000	g/cc
SDLT Pad	BHSM	Borehole Size Source Tool	XRMI-I Mandrel	
XRMI-I Instrument	NVOK	Process Navigation Outputs?	Yes	

XRMI-I Instrument	WRTI	Survey Writing Interval	8,8	m
XRMI-I Instrument	SOPT	Smoothing Option	None	
XRMI-I Instrument	AZHI	Write AccZ at 520.16 uSec?	No	
XRMI-I Instrument	AO	Angular Offset Between Imaging Tools	0	deg
XRMI-I Mandrel	CLOK	Process Caliper Outputs?	Yes	
XRMI-I Mandrel	ECOK	Process Eccentricity Outputs?	Yes	
XRMI-I Mandrel	CMAX	Caliper Maximum Limit	100,0	in
XRMI-I Mandrel	CMIN	Caliper Mimimum Limit	3,5	in
XRMI-I Mandrel	NAVS	Navigation Source Tool	XRMI-I Instrument	
XRMI-I Mandrel	BHVC	Radius type for borehole volume calcuations	Elliptical	
XRMI-I Mandrel	CCL	Caliper Correction Algorithm	None	
WAVE Receivers	WSOK	Process WSTT?	Yes	
WAVE Receivers	AFIL	Adaptive Filtering?	No	
WAVE Receivers	PINT	Process 1 Sample and Skip	0	
WAVE Receivers	PROM	Process Mode: M=1,MX=2,MY=3,MXY=4	4	
WAVE Receivers	DTSH	Delta -T Shale	100,00	uspf
WAVE Receivers	DTMT	Delta -T Matrix Type	Limestone 47.6	
WAVE Receivers	DTFL	Delta -T Pore Fluid	189,00	uspf
WAVE Receivers	RHOM	Matrix Density	2,7100	g/cc
WAVE Receivers	RHOF	Fluid Density	1,0000	g/cc
WAVE Receivers	SMTH	Semblance Threshold	0,25	
WAVE Receivers	VPVS	VPVS Ratio for Porosity	1,40	
WAVE Receivers	APEQ	Acoustic Porosity Equation	Wylie	
WAVE Receivers	NAVS	Navigation Source Tool	XRMI-I Instrument	
ACRt Sonde	RTOK	Process ACRt?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	1,50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
ACRt Sonde	TPOS	Tool Position	Free Hanging	
ACRt Sonde	RMOP	Rmud Source	Mud Cell	
ACRt Sonde	RMIN	Minimum Resistivity for MAP	0,20	ohmm
ACRt Sonde	RMAX	Maximum Resistivity for MAP	200,00	ohmm
ACRt Sonde	THQY	Threshold Quality	0,50	
ACRt Sonde	MRFX	Fixed mud resistivity	2000	ohmm
ACRt Sonde	BHSM	Borehole Size Source Tool	XRMI-I Mandrel	
ACRt Sonde	MBFL	Apply Corkscrew Effect?	No	
BOTTOM				

Data: MSD-GT-01-P\0001 HVC-GTET-DSLT-DSNT-FLEX-XRMI-WSTT\IDLE

Date: 30-Dec-22 09:12:57

HALLIBURTON

CUSTOMER EVENT LOG

Event	Time & Date	Depth	Event Description
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Type	Time & Date (m)	Event Description	
	30-Dec-22 00:45:22,217		Alarm cleared.
	30-Dec-22 01:03:59,421		Alarm cleared.
	30-Dec-22 01:21:52,688	241,554	Logging 001 30-Dec-22 01:21 Dn @241.6m
	30-Dec-22 02:06:05,842	1200,413	Halting 001 30-Dec-22 01:21 Dn @241.6m
	30-Dec-22 02:12:10,418	1200,455	Logging 002 30-Dec-22 02:12 Up @1200.5m
	30-Dec-22 02:26:26,319	1119,552	Halting 002 30-Dec-22 02:12 Up @1200.5m
	30-Dec-22 02:29:03,804	1076,630	Logging 003 30-Dec-22 02:29 Dn @1076.6m
	30-Dec-22 02:43:04,233	1447,050	Halting 003 30-Dec-22 02:29 Dn @1076.6m
	30-Dec-22 02:44:16,898	1404,595	Logging 004 30-Dec-22 02:44 Dn @1404.6m
	30-Dec-22 03:51:44,090	3312,520	Halting 004 30-Dec-22 02:44 Dn @1404.6m
	30-Dec-22 03:52:11,936	3316,757	Logging 005 30-Dec-22 03:52 Up @3316.8m
	30-Dec-22 08:39:49,217	1099,136	Halting 005 30-Dec-22 03:52 Up @3316.8m
	30-Dec-22 08:47:02,308	1253,566	Logging 006 30-Dec-22 08:47 Up @1253.6m
	30-Dec-22 09:08:35,331	1099,925	Halting 006 30-Dec-22 08:47 Up @1253.6m

Data: MSD-GT-01-P\0001 HVC-GTET-DSLT-DSNT-FLEX-XRMI-WSTT\HW12563

Date: 30-Dec-22 09:14:27

COMPANY	HVC		
WELL	MSD-GT-01-P		
FIELD	MAASDIJK WESTLAND		
COUNTRY	THE NETHERLANDS	RIG	KC-DEUTAG
HALLIBURTON		SPECTRAL DENSITY NEUTRON POROSITY GAMMA RAY CALIPER LOG SCALE 1:200	