

HALLIBURTON

DUAL SPACED NEUTRON TOOL
SPECTRAL DENSITY LOG TOOL
SECTION 8.5 INCH
FIELD PRINT
SCALE 1:200, 1:500

COMPANY				EBN BV			
WELL				Amstelland-1			
FIELD/BLOCK				Ouder Amsel			
COUNTRY				NETHERLANDS			
RIG				RED-E200			
Permanent Datum Log measured from Drilling measured from	MSL			API No. N/A			
	DF			Location Lat: 52.30751613° N Long: 4.92378787° E			
	DF			Other Services: AST, IDT, CASTI DSN, SDLT			
	DF			Elev.: K.B. 6.26 m D.F. 6.23 m G.L. 4.75 m			
Date	22-nov-23						
Run No.	2.2.1						
Depth - Driller	2227.00 m						
Depth - Logger	2227.50 m						
Bottom - Logged Interval	2227.00 m						
Top - Logged Interval	1767.00 m						
Casing - Driller	9.625 in	@ 1801.00 m	13.375 in	@ 700.00 m	20.000 in	@ 79.00 m	
Casing - Logger	1801.50 m						
Bit Size	8.500 in		12.250 in	@ 1803.00 m	17.500 in	@ 79.00 m	
Type Fluid in Hole		Oil Based					
Density	F. Viscosity	1.20 g/cc	61.00 s/qt				
Alkalinity	P. Viscosity	2.20 pcP	28.0 cP				
HTHP @ Meas. Temperature			@			@	
Solids	Wgt. Material	17.0 %	FLOWLINE				
Oil	Water Ratio	76	24				
Water Phase Salinity		36000.00 ppm Cl-					
Oil Type	Brine Type						
Electrical Stability		1229 V					
Time Since Circulation		29.39 hr					
Time on Bottom		23-Nov-23 01:09					
Max. Rec. Temperature		86.79 degC	@ 2178.32 m	@		@	
Equipment	Location		NL				
Recorded By		Belkadi Abderrahmane		Matheus Mroczko			
Witnessed By		Joost van den Broek		Roberto Robbenmond			

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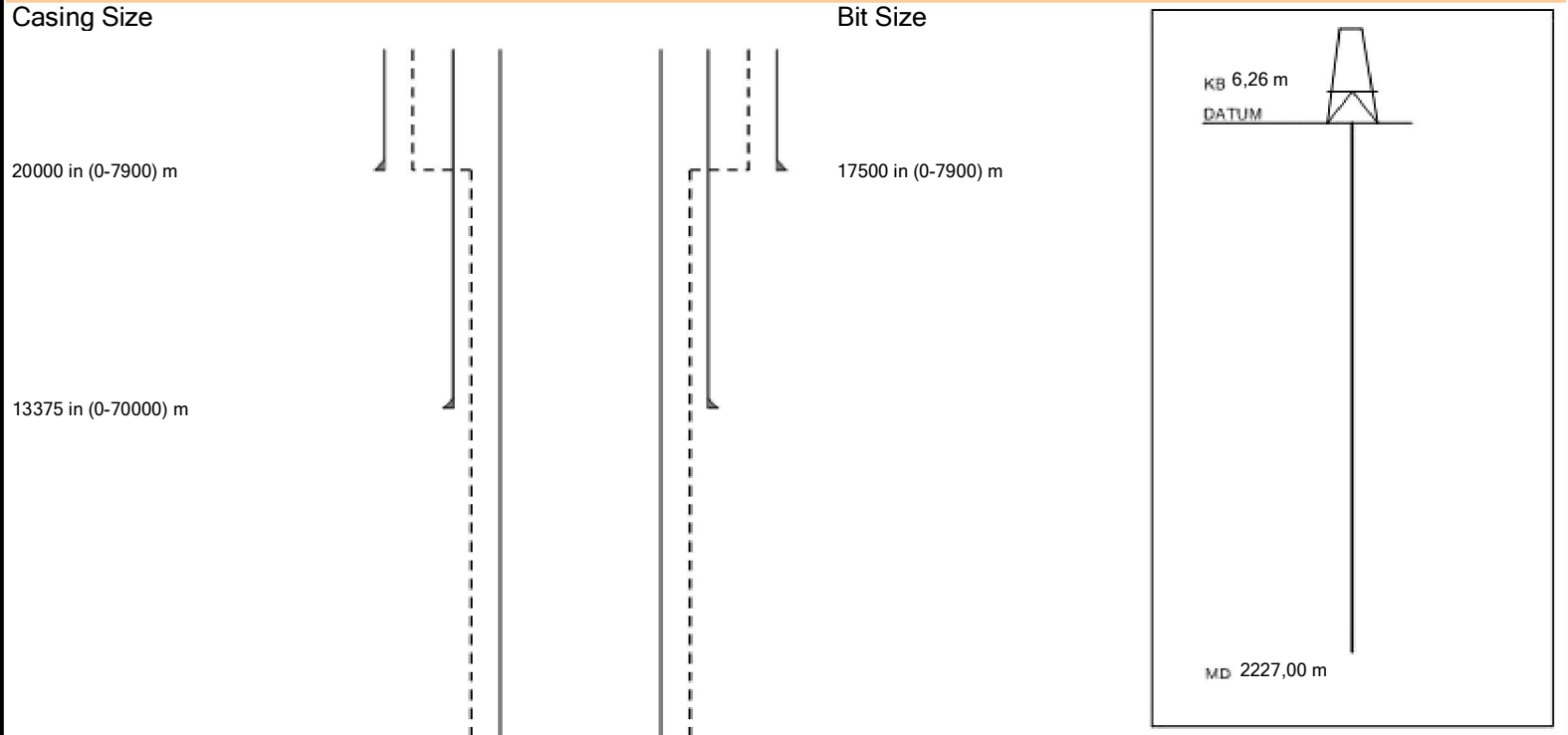
Sales Order Number: 908885606						API No.: N/A						PGM Version: WL INSITE R6.8.20 (Build 3)																	
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE												RESISTIVITY SCALE CHANGES																	
Date		Sample No.										Type Log		Depth		Scale Up Hole				Scale Down Hole									
Depth-Driller																													
Type Fluid in Hole																													
Density		F. Viscosity																											
Alkalinity		P. Viscosity																											
HTHP @ Meas. Temp.				@				@				RESISTIVITY EQUIPMENT DATA																	
Solids		Wgt. Mat.										Run No.		Tool Type & No.				Pad Type				Tool Pos.				Other			
Oil		Water Ratio																											
Water Phase Salinity																													
Oil Type		Water Type																											
Electrical Stability																													
EQUIPMENT DATA																													
GAMMA				ACOUSTIC								DENSITY								NEUTRON									
Run No.		2.2.1		Run No.								Run No.		2.2.1		Run No.				2.2.1									
Serial No.		11705766		Serial No.								Serial No.		12153296		Serial No.				11184140									
Model No.		GTET		Model No.								Model No.		SDLT		Model No.				DSNT									
Diameter		3.625		No. of Cent.								Diameter		4.5 in		Diameter				3.625 in									
Detector Model No.		NaI		Spacing								Log Type		UPLOG		Log Type				UPLOG									
Type		SCINT										Source Type		Cs 137		Source Type				Am241 Be									
Length		8"		LSA [Y/N]								Serial No.		5574GW		Serial No.				DSN-442									
Distance to Source		NA		FWDA [Y/N]								Strength		1.78 Ci		Strength													

LOGGING DATA																
GENERAL				GAMMA		ACOUSTIC			DENSITY			NEUTRON				
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix		
No.	From	To	ft/min	L	R	L	R		L	R		L	R			
R2.2.1	2227	1750	REC	0	150				1.95	2.95	LIMESTONE	0.45	-0.15	LIMESTONE		
DIRECTIONAL INFORMATION																
Maximum Deviation			8.96 deg		@		2227.00 m			KOP			@		1195.00 m	
Remarks: LOG CORRELED TO 12.25" SECTION GR-IDT-AST LOG DONE BY HALLIBURTON DATED ON THE 09-11-2023.																
TOOL RUN AS PER TOOL STRING DIAGRAM.																
MAX DEPTH REACHED IS 2227.5 M																
MAX RECORDED TEMERATURE IS 86.79 Deg C.																
MAIN LOG RECORDED FROM 2227.5 m TO 1767 m AS PER CLIENT REQUEST.																
REPEAT SECTION FROM 2050 m TO 2000 m AS PER CLIENT REQUEST																
MEASSURED BOREHOLE VOLUME FROM SDLT CALIPER, BHV: 7.72 M3																
MESSURAED ANNULAR HOLE VOLUME FOR 7 INCH CASING FROM SDLTL CALIPER AHV:2.41 M3																
LAST CIRCULATION STOPED AT 19:30 THE 21-NOV-2023.																
AVERAGE HOLE SIZE 8.51 in																
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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WELL DIAGRAM REPORT

Customer: EBN BV	Location: Lat: 52.30751613° N
Well: Amstelland-1	Long: 4.92378787° E
Field: Ouder Amsel	
Datum: MSL	



9625 in (0-180100) m

12250 in (7900-180300) m

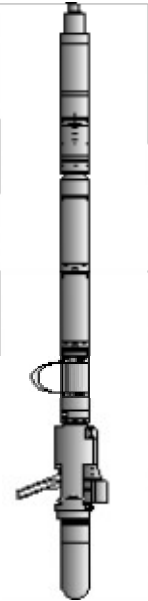
8500 in (180300-222700) m

Data: AMS-01-8_5

Date: 22-Nov-23 23:20:51

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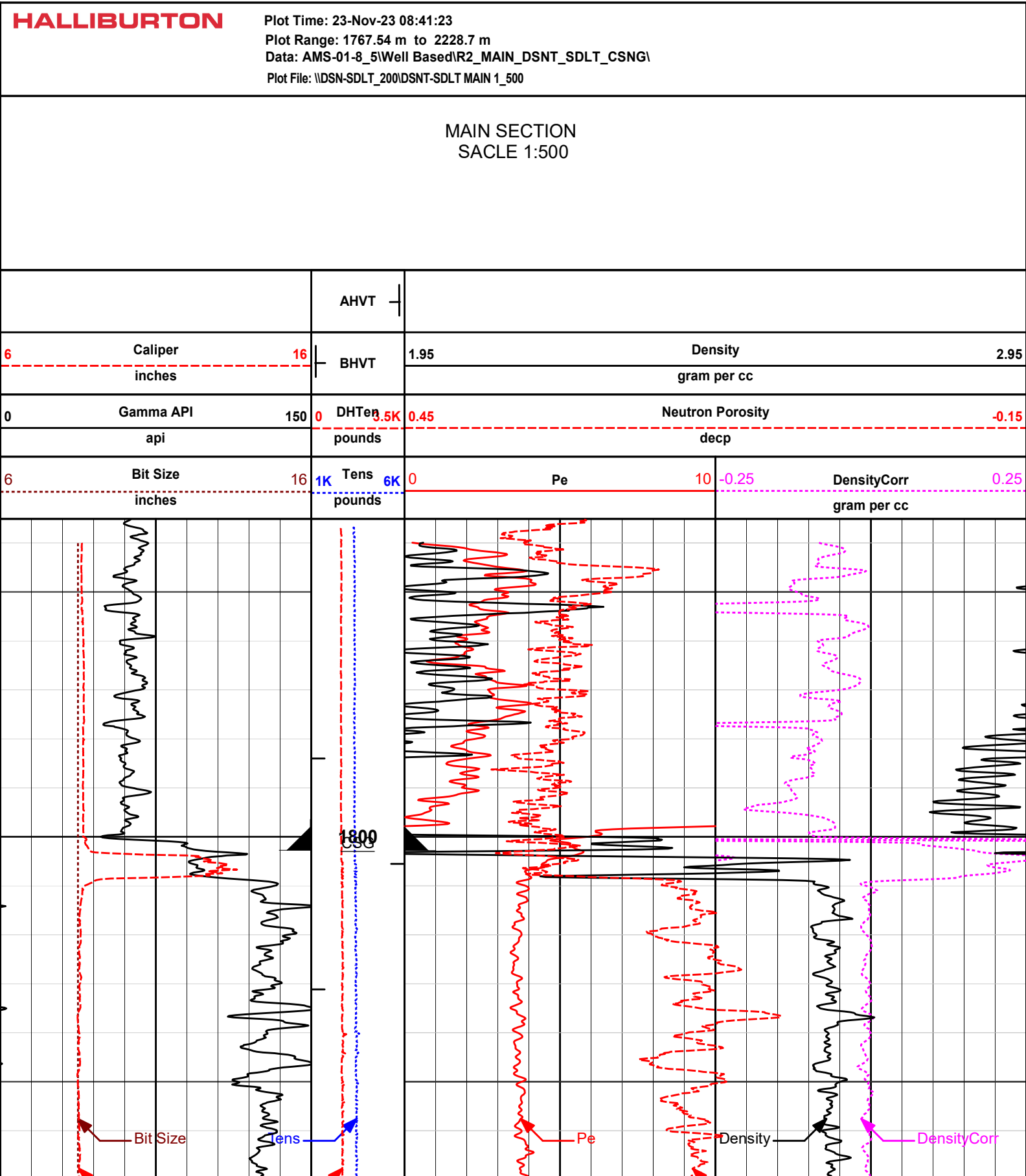
TOOL STRING DIAGRAM REPORT

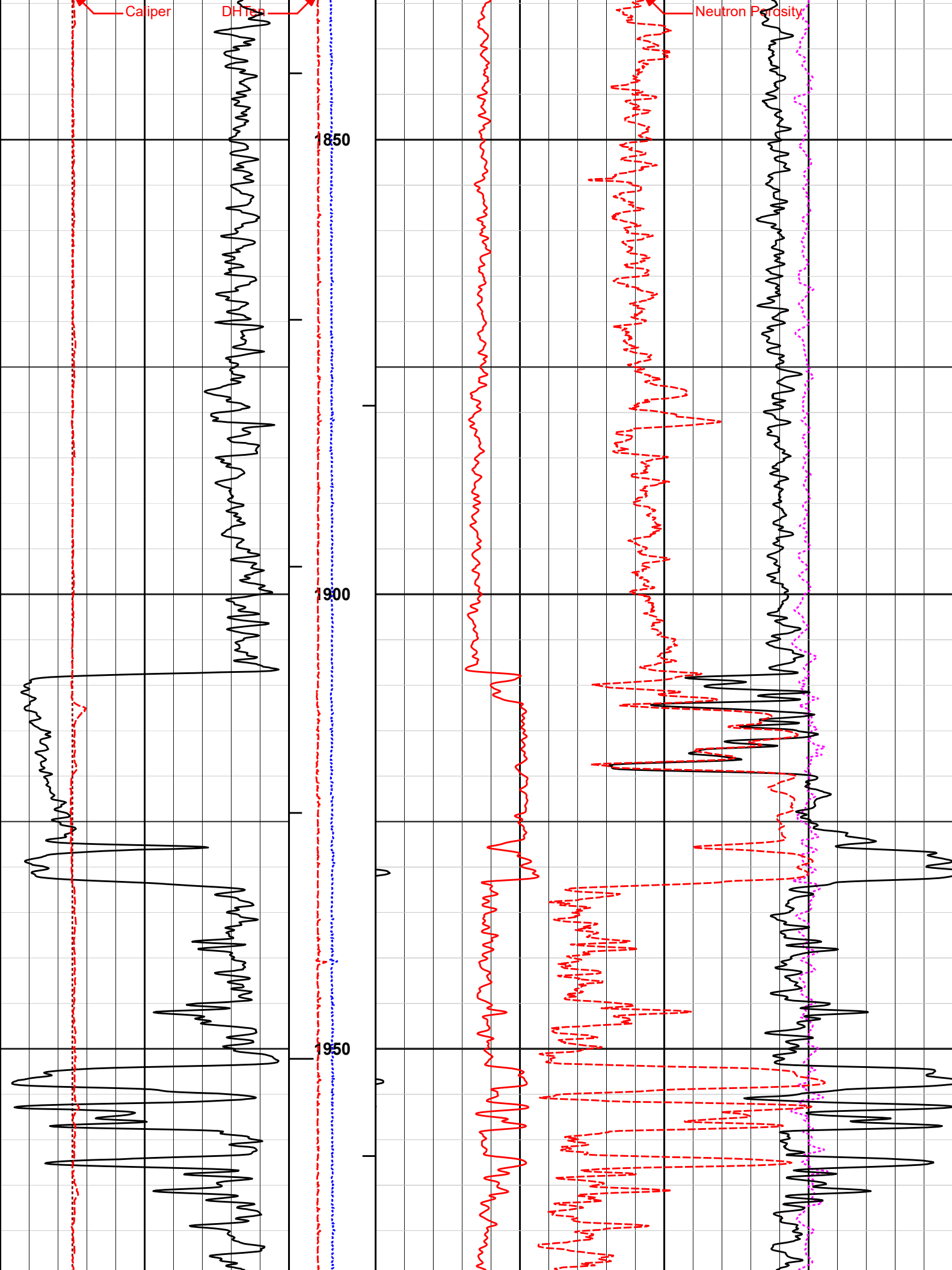
Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-11622044 135.00 lbs	Weak Point Solid- 00000000 0.01 lbs	Ø 2.310 in Ø 3.625 in Ø 0.010 in*		Fishing Neck @ 13.99 m Load Cell @ 13.14 m BH Temperature @ 12.97 m	1.91 m	14.26 m
MCSA-12165789 70.00 lbs		Ø 3.625 in			0.92 m	12.36 m
GTET-11705766 165.00 lbs		Ø 3.625 in		Z-Accelerometer @ 11.30 m GammaRay @ 9.59 m	2.60 m	11.44 m
CSNG-11605111 114.00 lbs		Ø 3.625 in		CSNG @ 7.12 m	2.49 m	8.84 m
DSNT-11184140 174.00 lbs	DSN Decentralizer- 12121212 6.60 lbs	Ø 5.000 in* Ø 3.625 in		DSN Far @ 4.24 m DSN Near @ 4.01 m	2.95 m	6.35 m
SDLT-12153296 360.00 lbs	SDLT Pad-11628635 65.00 lbs RAM-Cs137-10998370 1.00 lbs	Ø 4.500 in Ø 4.500 in* Ø 0.800 in*		SDL Caliper @ 0.96 m SDL @ 0.96 m	3.30 m	3.40 m
Bull Nose-13131313 5.00 lbs		Ø 2.750 in			0.10 m	0.10 m
					0.10 m	0.00 m

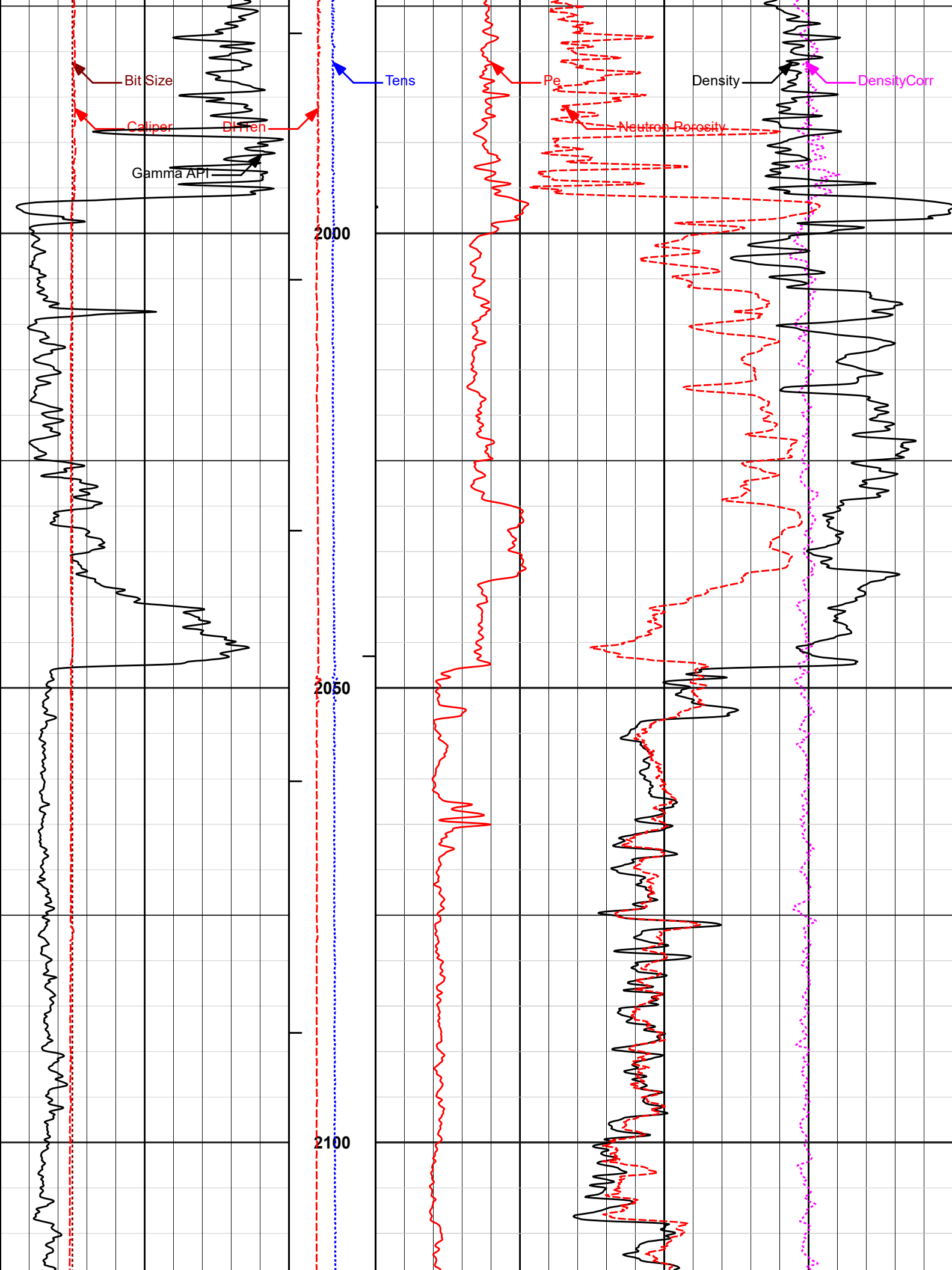
Graph is not up to scale

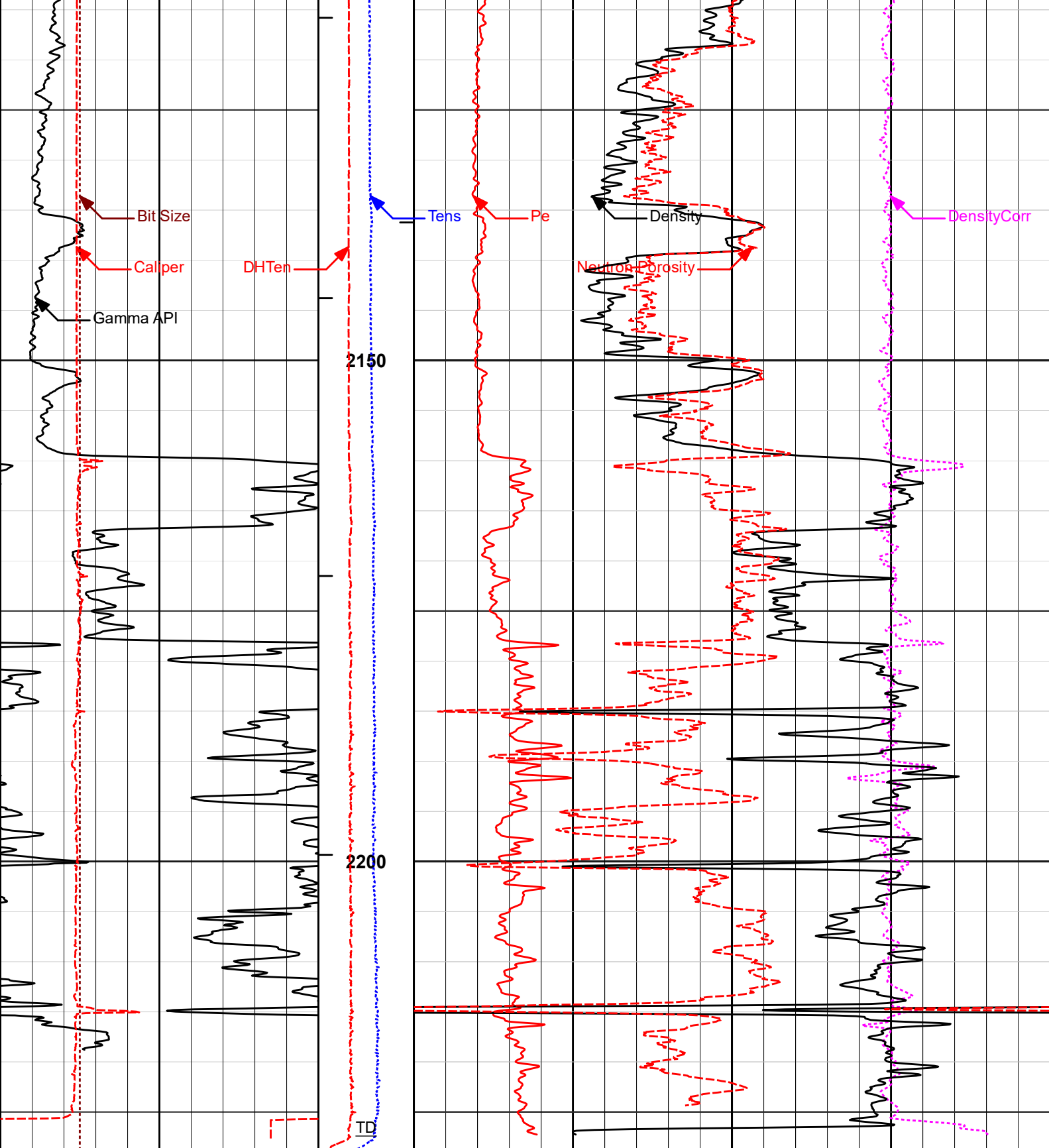
Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (m)	Accumulated Length (m)	Max.Log. Speed (mpm)
RWCH	Releasable Wireline Cable Head	11622044	135.00	1.91	12.36	91.44
WPSS	Weak Point Solid	00000000	0.01	0.00	12.36	91.44
MCSA-D	Multi Conductor Swivel Assembly	12165789	70.00	0.92	11.44	91.44
GTET	Gamma Telemetry Tool	11705766	165.00	2.60	8.84	18.29
CSNG	Compensated Spectral Natural Gamma	11605111	114.00	2.49	6.35	4.57
DSNT	Dual Spaced Neutron	11184140	174.00	2.95	3.40	18.29
MDA	Mechanical Decentralizer Assembly - 3-5/8"	12121212	6.60	1.56	4.41	91.44
SDLT	Spectral Density Tool	12153296	360.00	3.30	0.10	18.29
SDLP	Density Insite Pad	11628635	65.00	0.78	0.78	18.29

Cs137	Logging Source, SDLT-I, 1.78 Ci - Cs137	10998370	1.00	0.24	*	0.85	91.44
BLNS	Bull Nose	13131313	5.00	0.10		0.00	91.44
Total			1,095.61	14.26			
					* Not included in Total Length and Length Accumulation.		
Data: AMS-01-8_5\0002 R2-RWCH-MCSA-GTET-DSNT-SDLT\IDLE					Date: 22-Nov-23 22:32:23		





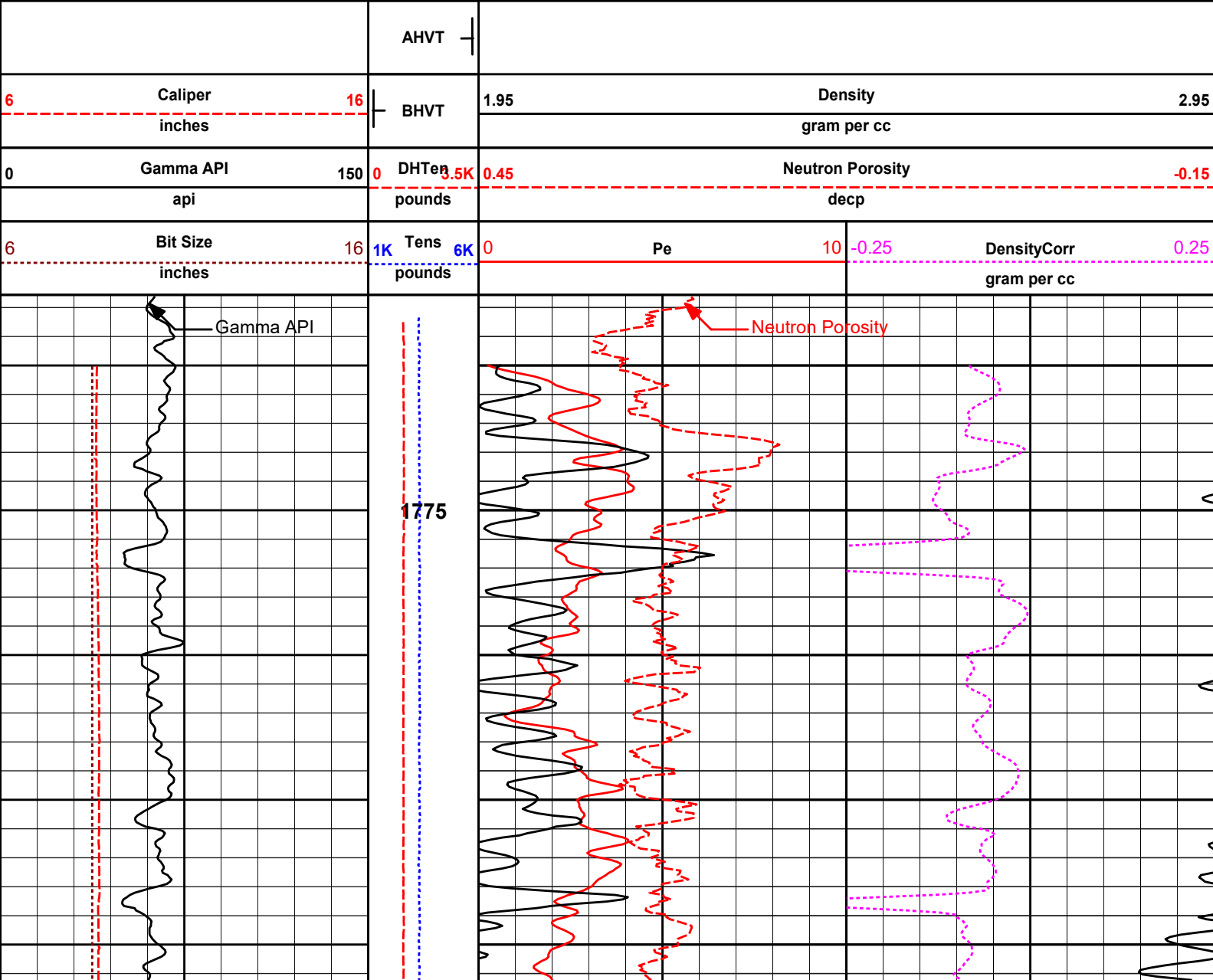


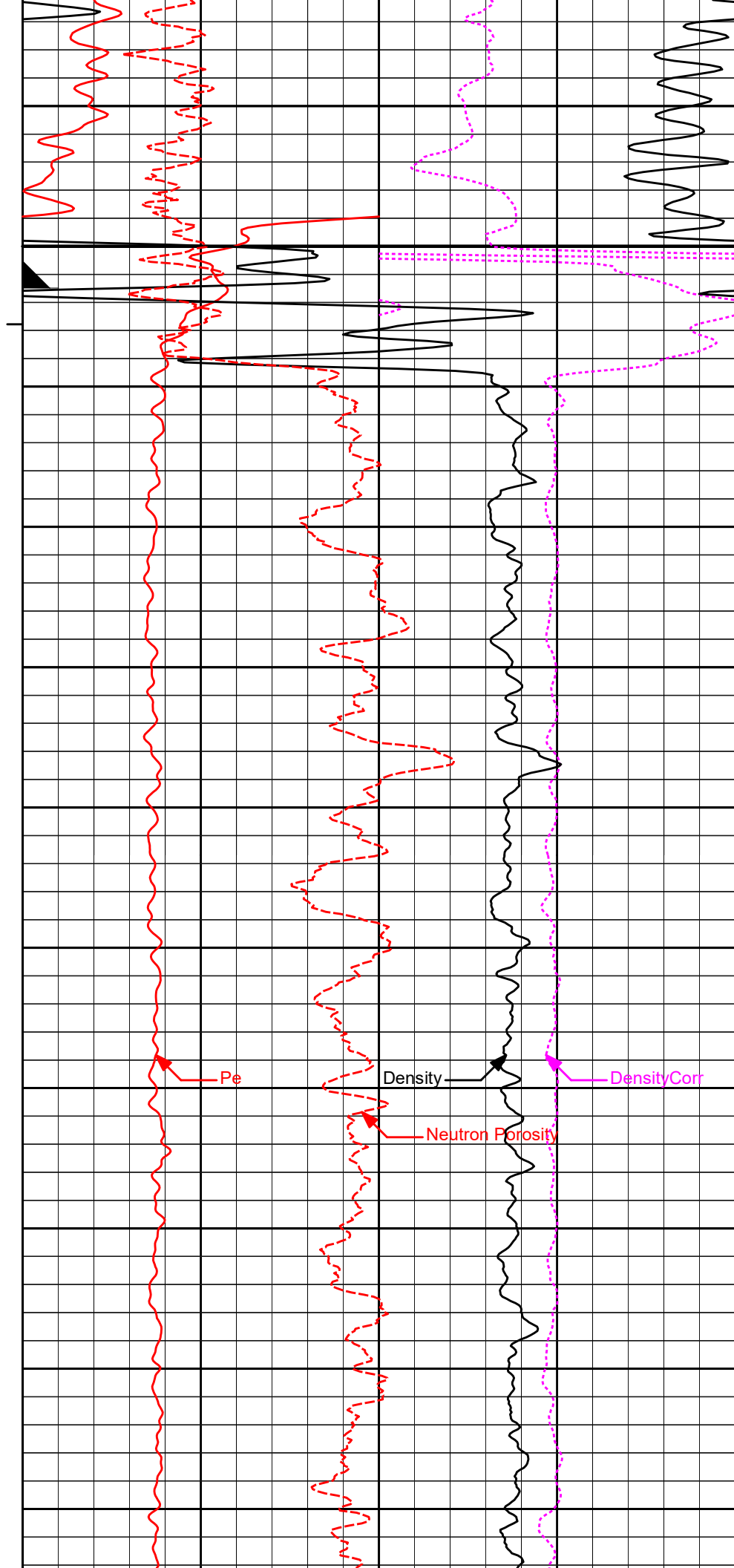
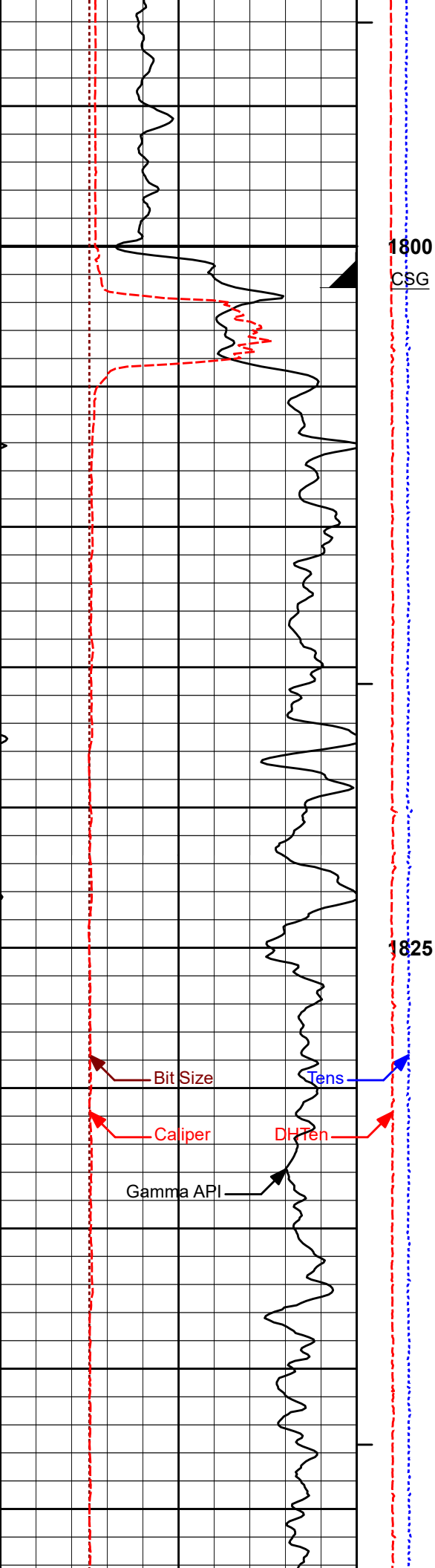


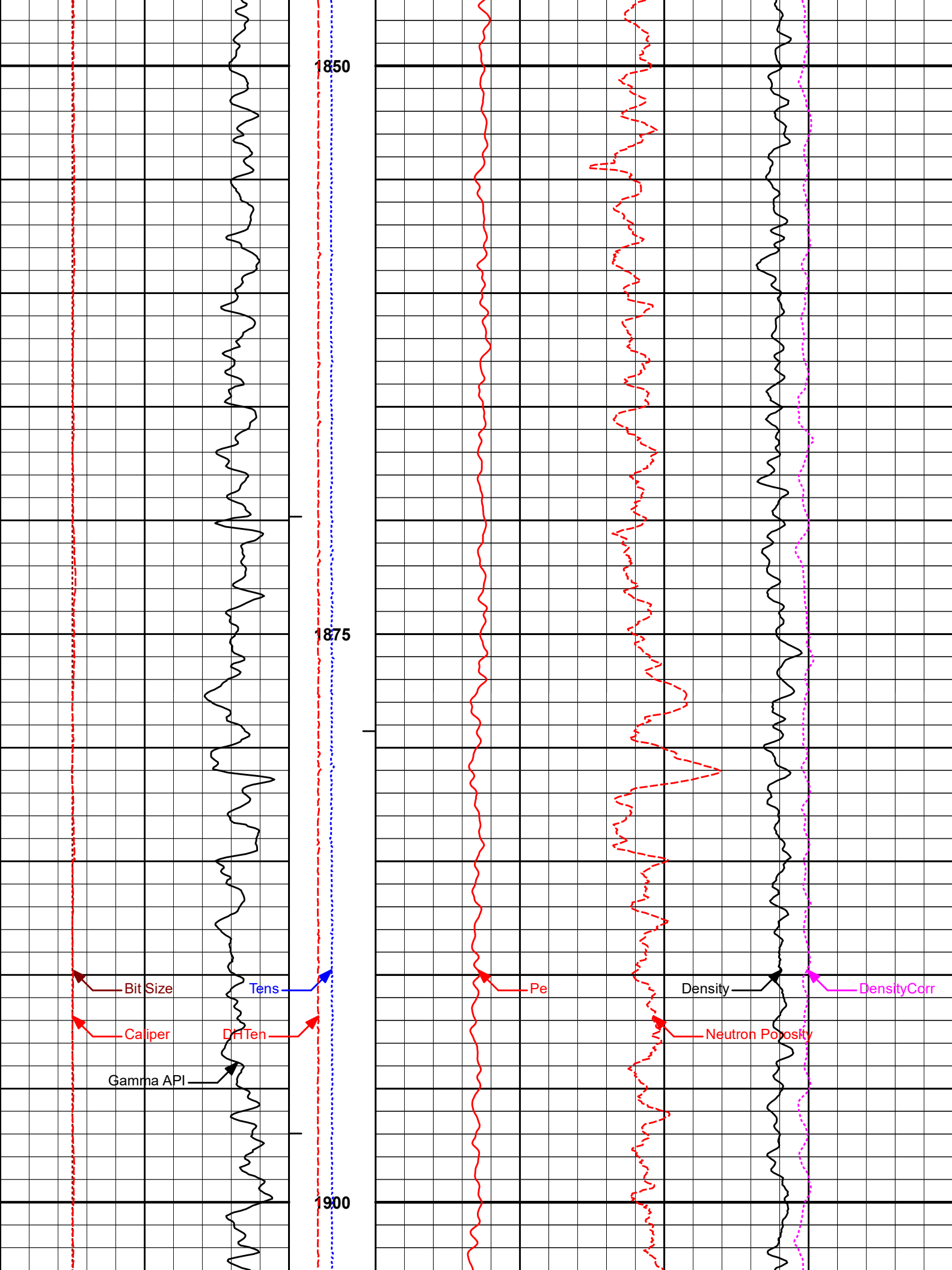
6	Bit Size	16	1K Tens 6K	0	Pe	10	-0.25	DensityCorr	0.25
inches			pounds				gram per cc		
0	Gamma API	150	0 DHTen 3.5K	0.45	Neutron Porosity			-0.15	
api			pounds	dec					
6	Caliper	16	BHVT	1.95	Density			2.95	
inches				gram per cc					
			AHVT						

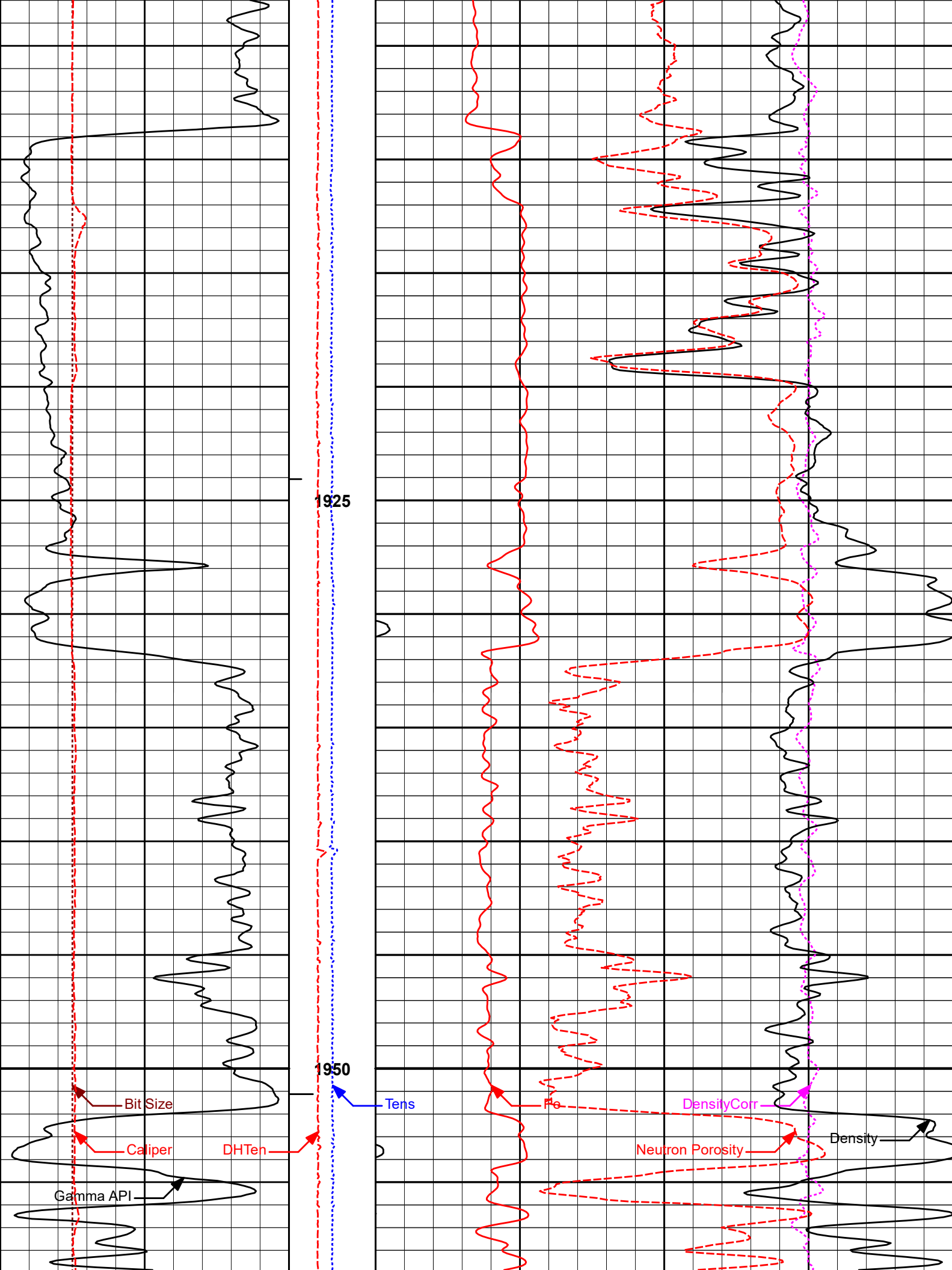
MAIN SECTION
SACLE 1:500

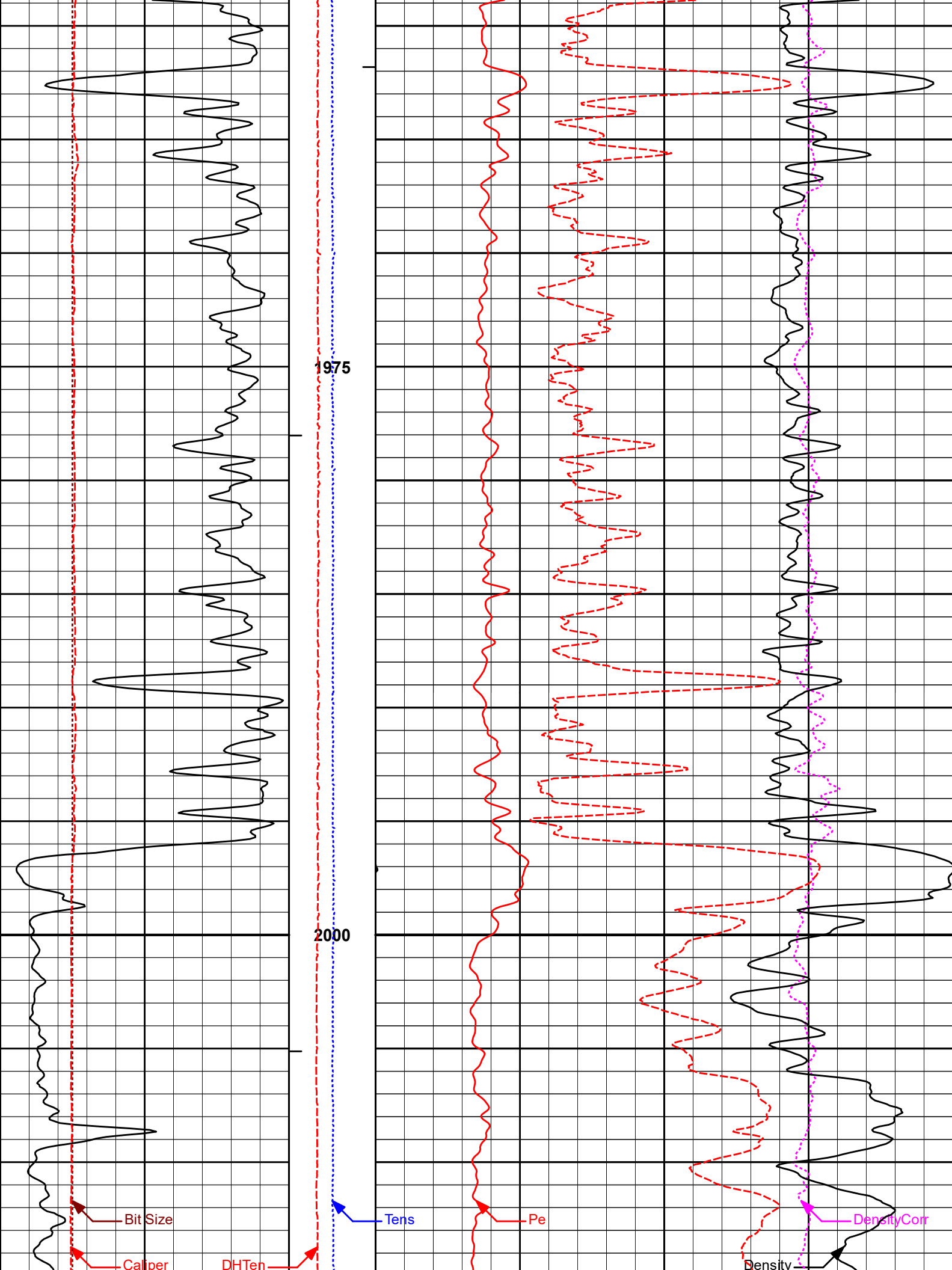
MAIN SECTION
SACLE 1:200

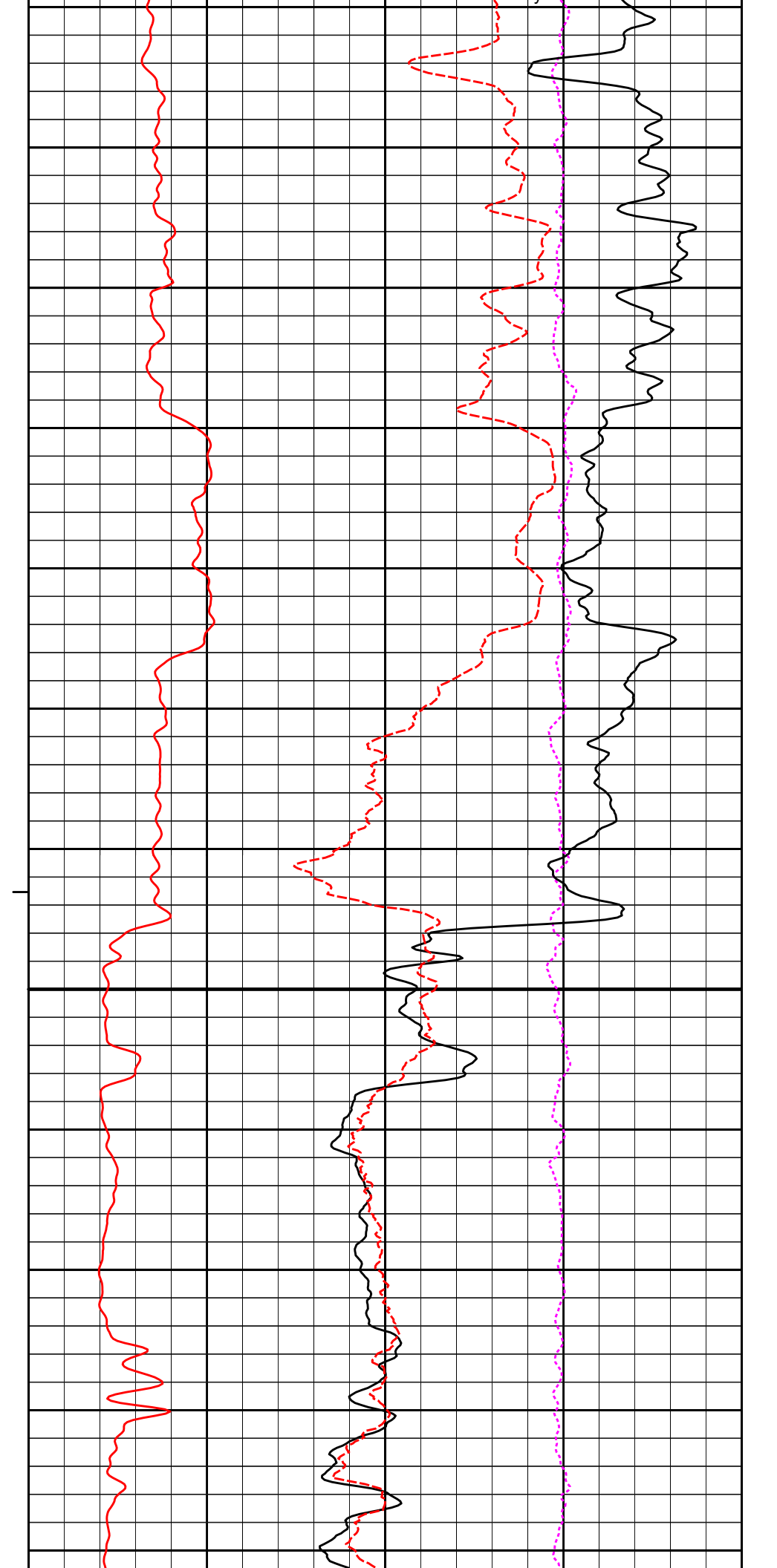
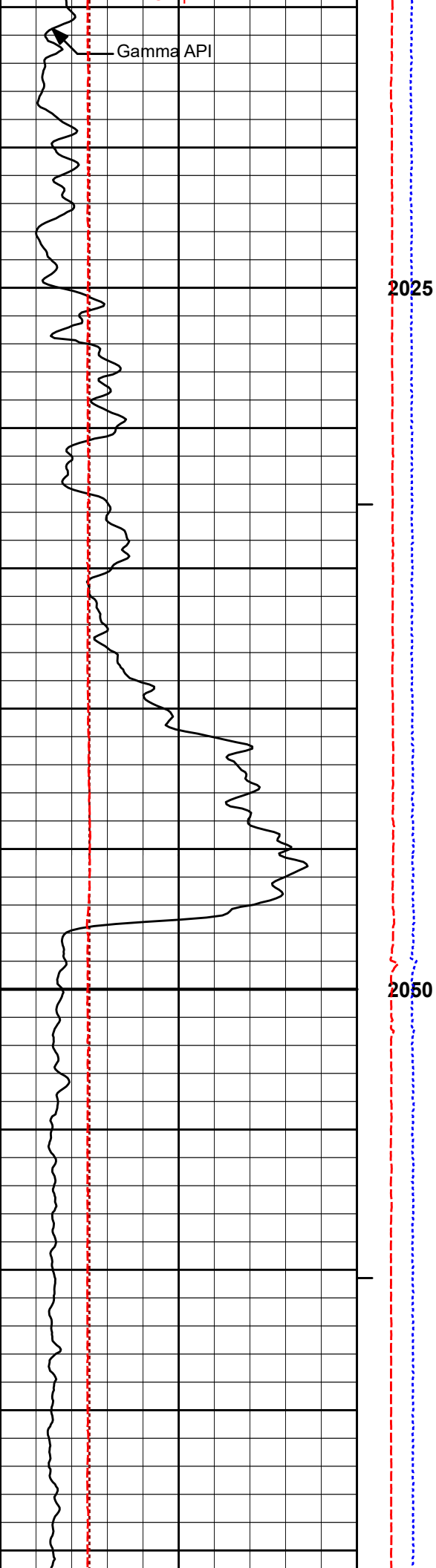


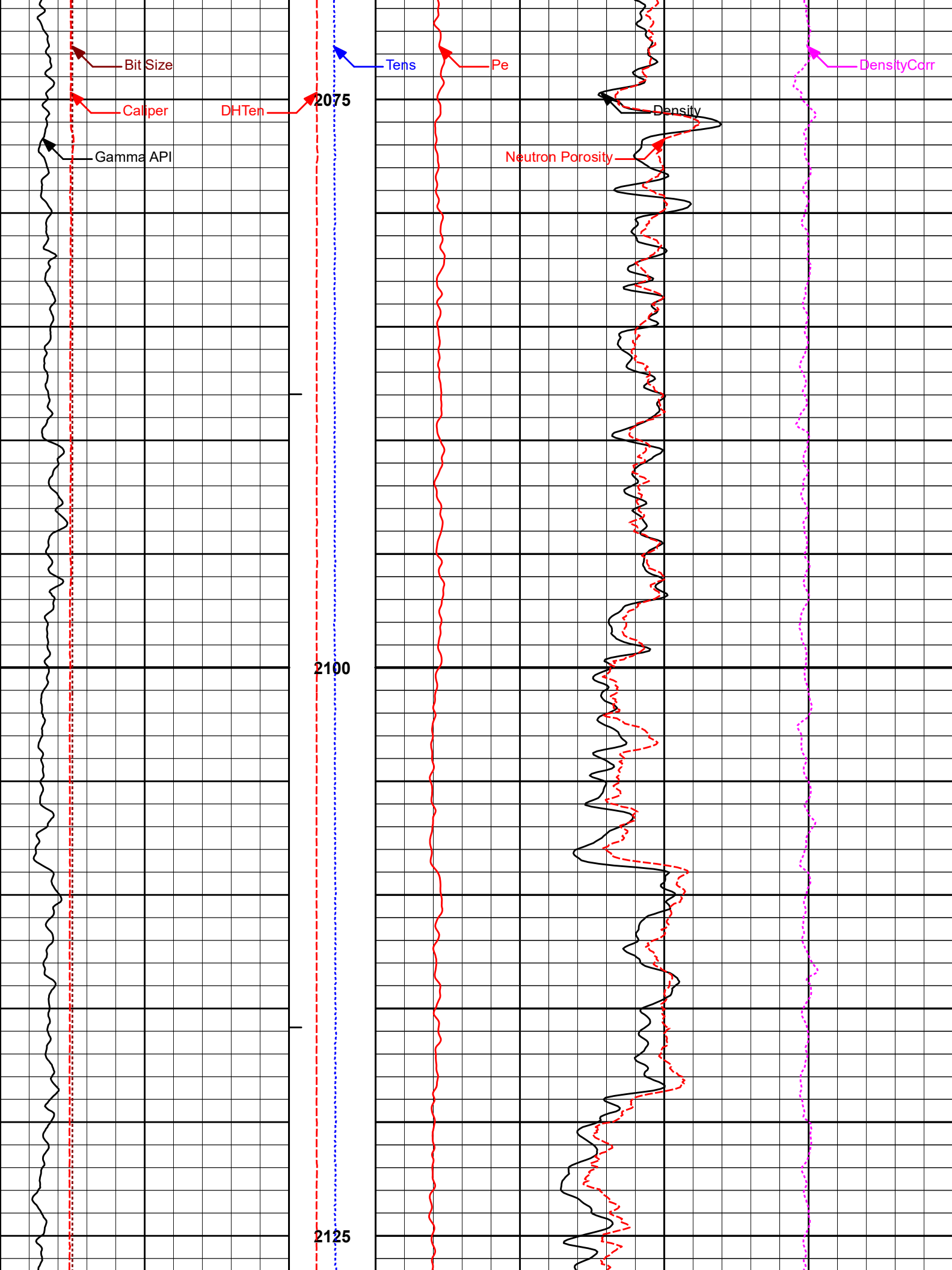


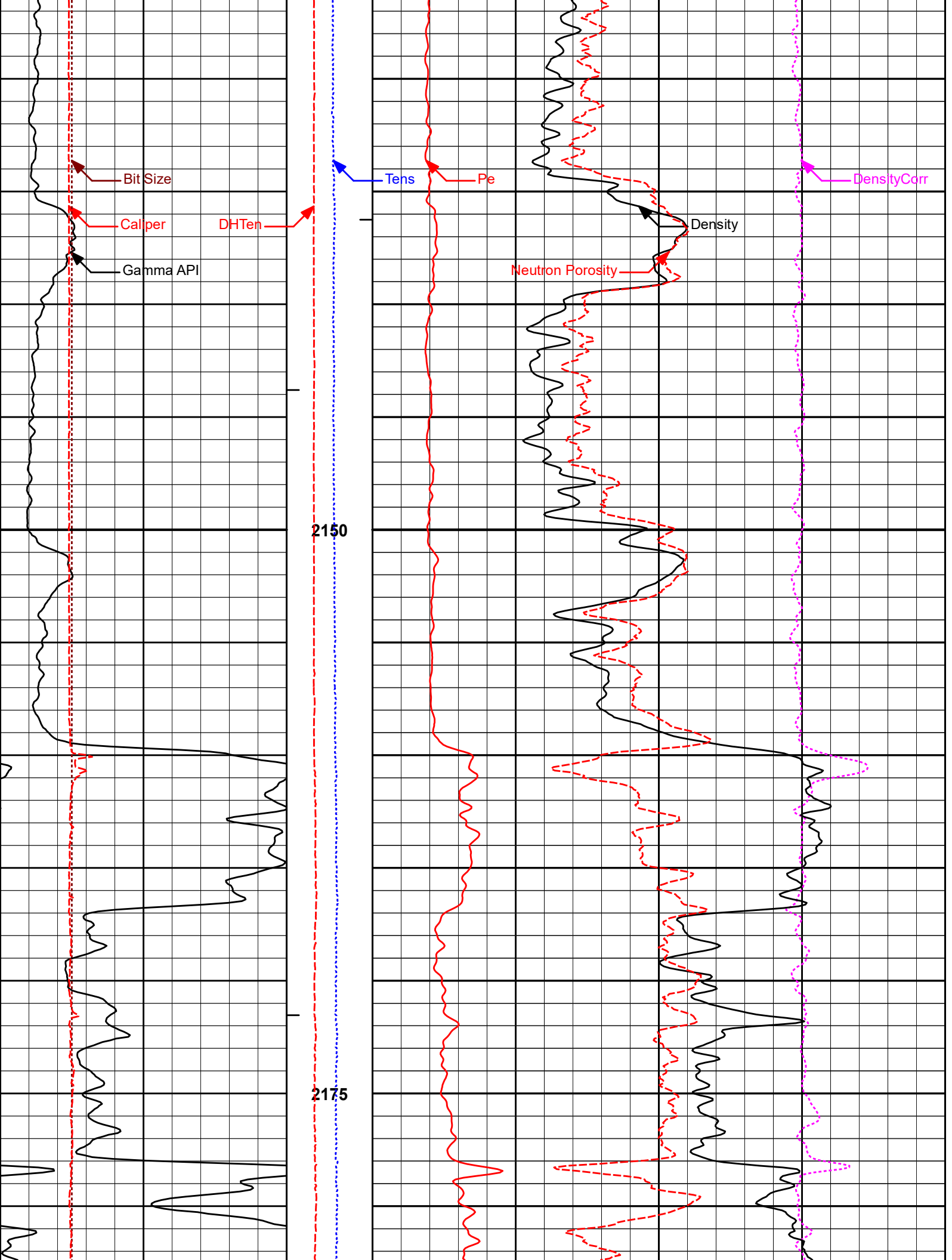


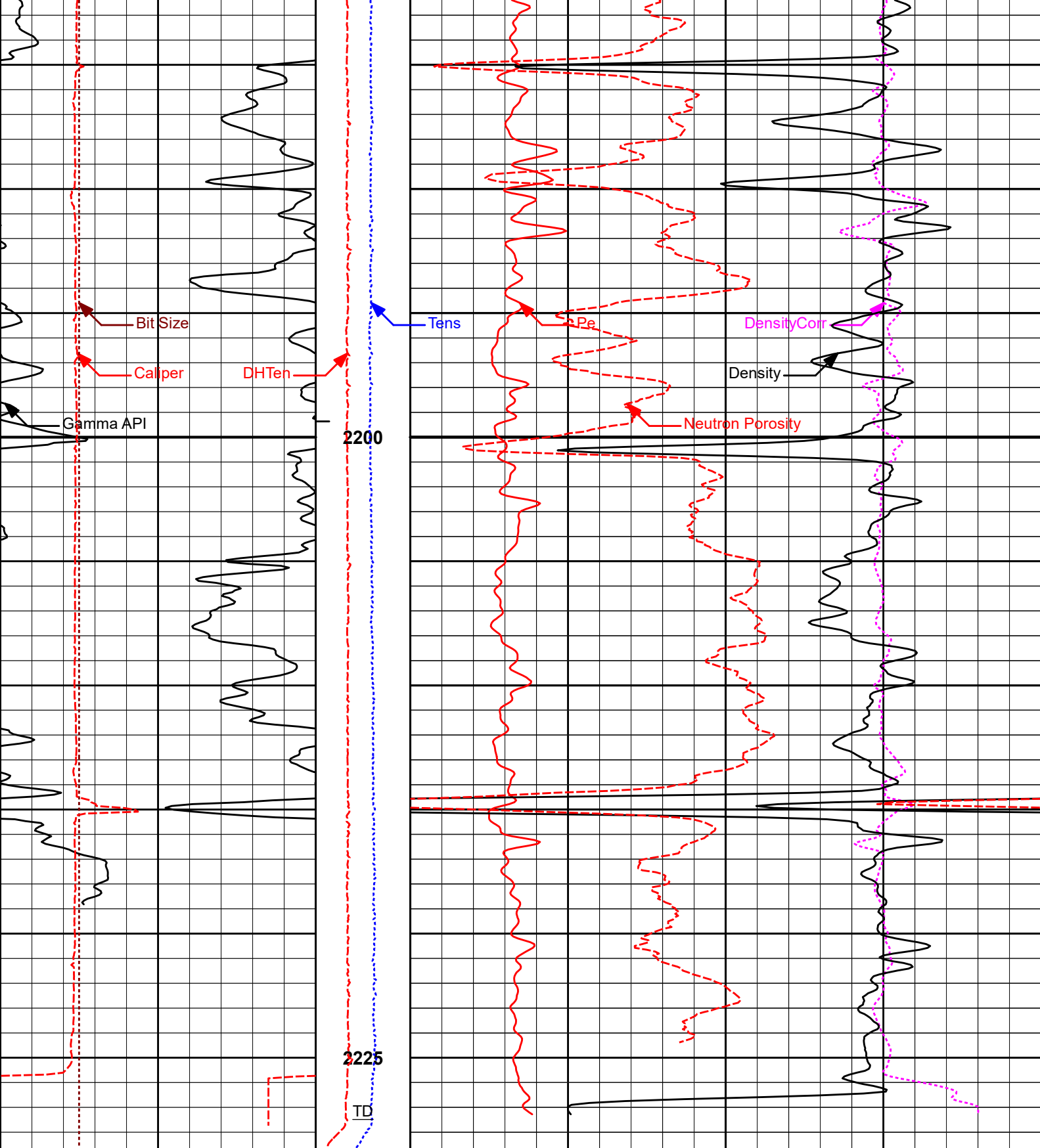








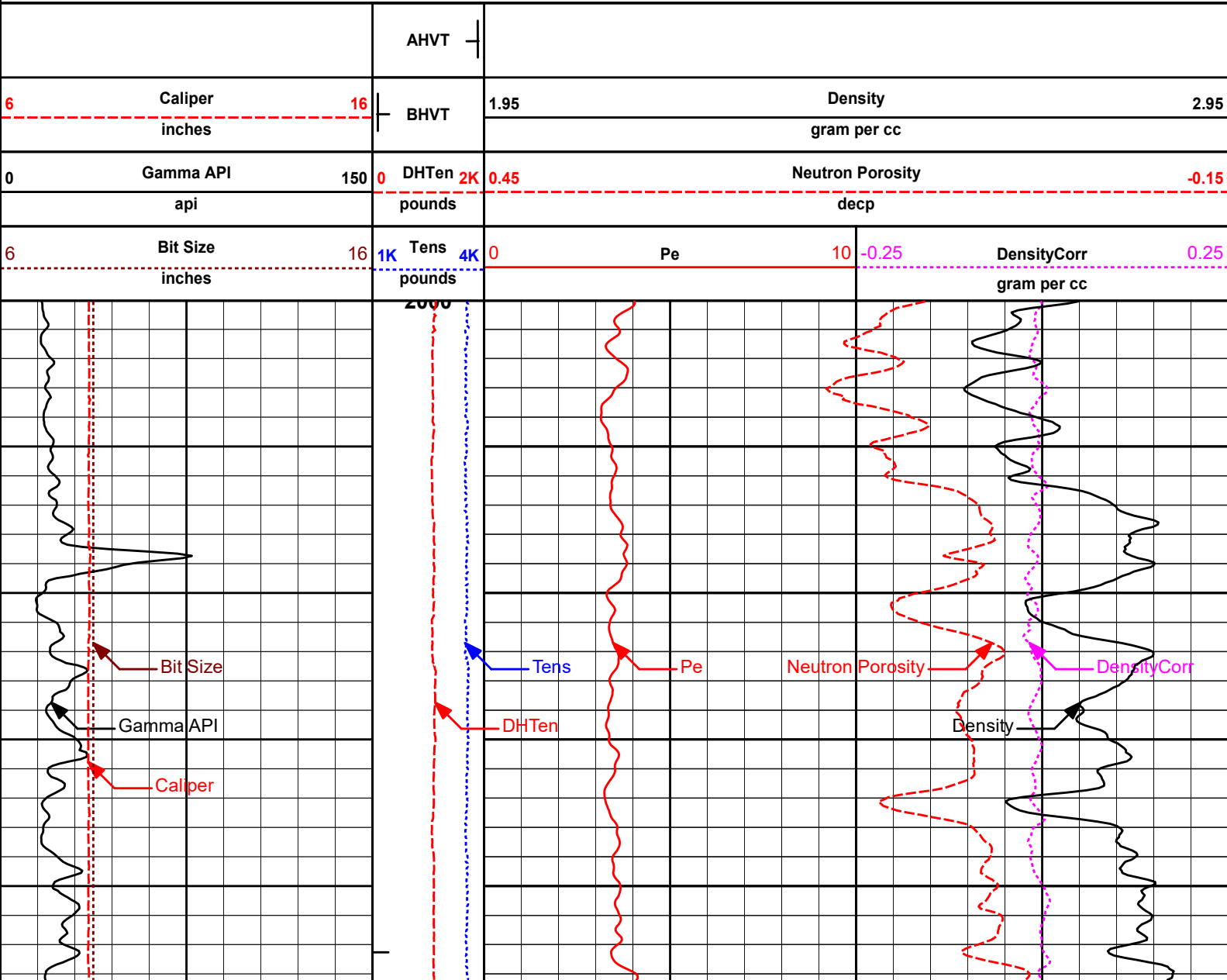


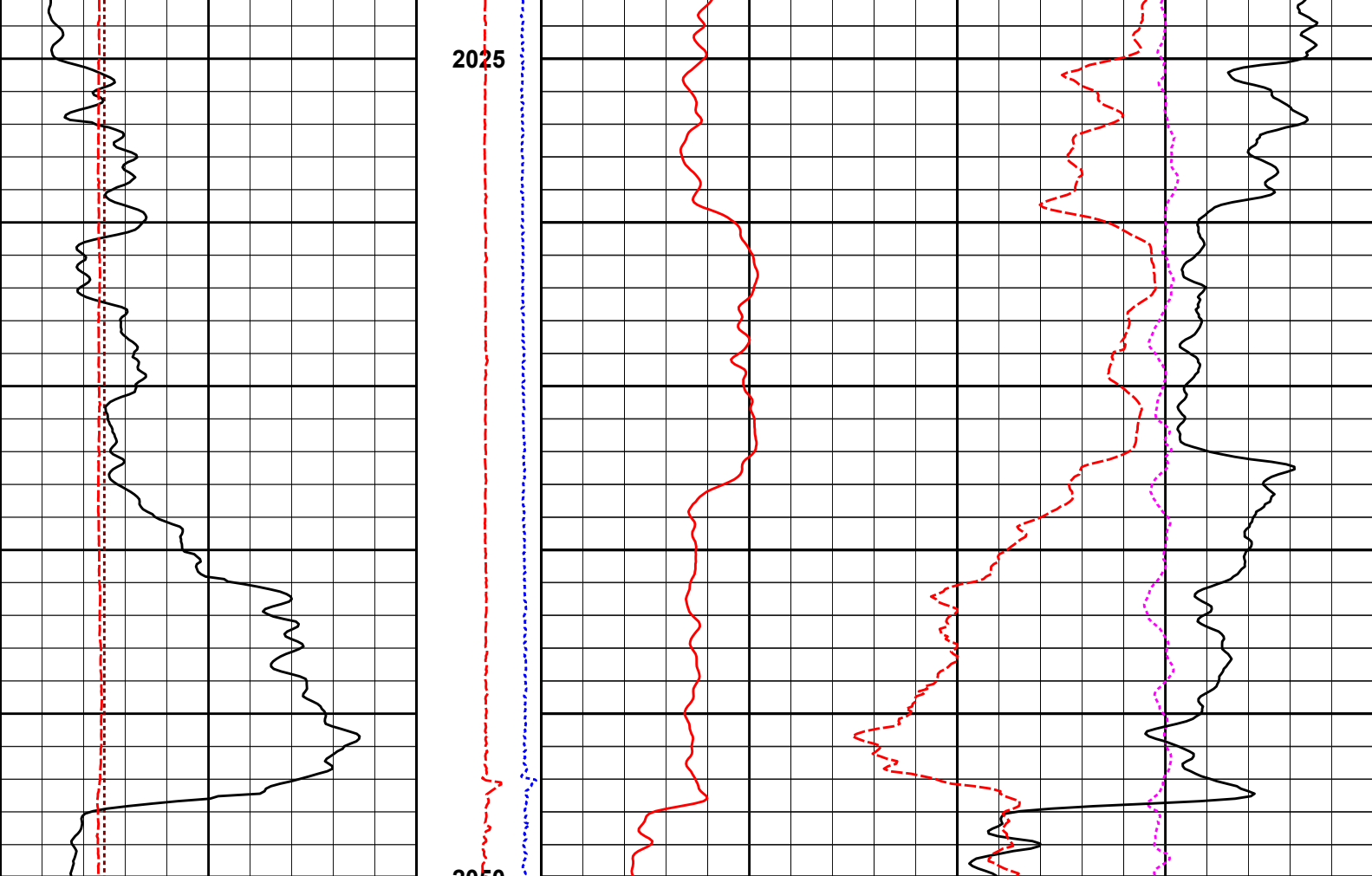


6	Bit Size	16	1K	Tens	6K	0	Pe	10	-0.25	DensityCorr	0.25
	inches			pounds						gram per cc	
0	Gamma API	150	0	DHTen	3.5K	0.45	Neutron Porosity				-0.15
	api			pounds			decp				
6	Caliper	16		BHVT		1.95	Density				2.95
	inches						gram per cc				
				AHVT							

MAIN SECTION
SACLE 1:200

REPEAT SECTION
SACLE 1:200





6	Bit Size	16	1K	Tens	4K	0	Pe	10	-0.25	DensityCorr	0.25	
	inches			pounds						gram per cc		
0	Gamma API	150	0	DHTen	2K	0.45	Neutron Porosity					-0.15
	api			pounds			decg					
6	Caliper	16		BHVT		1.95	Density					2.95
	inches						gram per cc					
				AHVT								

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Plot Time: 23-Nov-23 08:41:29
Plot Range: 2000 m to 2050 m
Data: AMS-01-8_5\Well Based\R2_REPEAT_DSNT_SDLT_CSNG\
Plot File: \\DSN-SDLT_200\DSNT-SDLT REPEAT 1_200

REPEAT SECTION
SACLE 1:200

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PARAMETERS REPORT

Depth (m)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	PS	Bit Size	8.500	in

SHARED	BS	Bit Size	8,500	in
SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
SHARED	MDBS	Mud Base	Oil	
SHARED	MDWT	Borehole Fluid Weight	1,2000	g/cc
SHARED	WAGT	Weighting Agent	Natural	
SHARED	BSAL	Borehole salinity	0,00	ppm
SHARED	FSAL	Formation Salinity NaCl	0,00	ppm
SHARED	WPHS	OBM Water Phase Salinity NaCl	36000,00	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	7,000	in
SHARED	CSTR	Compressive Strength	1000,00	psia
SHARED	ST	Surface Temperature	16,0	degC
SHARED	TD	Total Well Depth	2227,000	m
SHARED	BHT	Bottom Hole Temperature	86,8	degC
SHARED	SVTM	Navigation and Survey Master Tool	NONE	
SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
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	
Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
Rwa / CrossPlot	FCHO	Select Source of F	Automatic	
Rwa / CrossPlot	AFAC	Archie A factor	0,6200	
Rwa / CrossPlot	MFAC	Archie M factor	2,1500	
Rwa / CrossPlot	RMFR	Rmf Reference	0,10	ohmm
Rwa / CrossPlot	TMFR	Rmf Ref Temp	23,89	degC
Rwa / CrossPlot	RWA	Resistivity of Formation Water	0,05	ohmm
Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
Rwa / CrossPlot	BHSM	Borehole Size Source Tool	SDLT	
Rwa / CrossPlot	ROIN	Input for RO Calculation	Rwa	
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	SDLT	
CSNG	CGOK	Process CSNG Data?	Yes	
CSNG	CENT	Is Tool Centralized?	No	
CSNG	GBOK	Gamma Enviromental Corrections?	Yes	
CSNG	BARF	Barite Correction Factor	1,00	
CSNG	ORDG	Use Fixed Gain	No	
CSNG	ORDO	Use Fixed Offset	No	
CSNG	ORDR	Use Fixed Resolution Degradation Factor	No	
CSNG	BHSM	Borehole Size Source Tool	SDLT	
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	DNTH	Temperature Correction Type	Gradient	
DSNT	DNTT	Top Zone Temperature Value	77,0	degC
DSNT	DNBT	DSN Bottom Zone Temperature Value	86,8	degC
DSNT	DTDT	Top Depth for Temperature Gradient Calculation (Measured Depth)	1801,5	m
DSNT	DBDT	Bottom Zone Temperature Depth (Measured Depth)	2221,0	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?	Yes	
DSNT	MWCO	Correct for Mud Weight?	Yes	
DSNT	BSCO	Correct for Borehole Salinity?	Yes	
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	SDLT	
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	SDLT	
BOTTOM_____				
Data: AMS-01-8_5\0002 R2-RWCH-MCSA-GTET-DSNT-SDLT\001 22-Nov-23 22:54 Dn @302.9m				Date: 22-Nov-23 23:19:00

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CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:GTET - 11705766Reference Calibration Date:04-Nov-23 12:26:58

Engineer:Belkadi AbderrahmaneCalibration Date:04-Nov-23 12:30:31

Software Version:WL INSITE R6.6.7 (Build 8)Calibration Version:1

Calibrator Source Sleeve Type: Thorium

Calibrator Source S/N: 11224665

Calibrator API Reference:241,00 api

Equivalent Calibrator API Reference:245,2 api

Measurement	Measured	Calibrated	Units
Background	38,7	38,5	api
Background + Calibrator	285,2	283,7	api
Calibrator	246,5	245,2	api

CSNG-FS SHOP CALIBRATION

Tool Name:CSNG - 11605111Reference Calibration Date:28-Feb-22 13:59:24

Engineer:Belkadi AbderrahmaneCalibration Date:04-Nov-23 15:48:59

Source SN: 11224665

TITANIUM CASE	Measured	Calibrated	Units
60 KEV Peak Channel #	48,0	48,0	Channel #
239 KEV Peak Channel #	23,2	23,2	Channel #
583 KEV Peak Channel #	51,7	51,9	Channel #
2614 KEV Peak Channel #	212,7	213,1	Channel #
Calibrate Temperature	19,2	13,1	degC

Pass/Fail Summary	Centroid
239 KEV Peak	Passed
583 KEV Peak	Passed
2614 KEV Peak	Passed

Calibrator Source Sleeve Type: Thorium

Blanket Reference Value: 241,00 API

Calibrator Value: 273,7 API

	Counts	Units	Measured	Calibrated	Units
Thorium Blanket	1513,7	CPS	311,5	303,6	API
Background	148,9	CPS	46,9	29,9	API

Gamma Ray Gain: 1,01

Expected Gain Range: 0,85 - 1,15

Gamma Gain Check: Passed

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 11184140

Reference Calibration Date: 04-Nov-23 09:38:27

Engineer: Belkadi Abderrahmane

Calibration Date: 04-Nov-23 09:52:09

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

Calibration Version: 1

Logging Source S/N: 442

Tank Serial Number: 11515544

Reference value assigned to Tank: 52,980

Snow Block S/N: NL_12002264

Calibration Tank Water Temperature: 9 degC

Min. Tool Housing Outside Diameter: 3,625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0,97180	0,97379	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):	0,2176	0,2182	0,0006	+/- 0,0020
Calibrated Ratio:	9,9516	9,9719	0,020	+/- 0,050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0,0695	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 - 12153296	Reference Calibration Date:	04-Nov-23 15:05:07
Engineer:	Belkadi Abderrahmane	Calibration Date:	04-Nov-23 15:15:06
Software Version:	WL INSITE R6.6.7 (Build 8)	Calibration Version:	1
Host Tool Name:	DSNT - 11184140		

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2509,12	-2538,31	-7000,00 - -1000,00
Pad Gain	0,0003789	0,0003807	0,0002000 - 0,0006000
Arm Offset	-4175,90	-3741,85	-5000,00 - 3000,00
Arm Gain	0,0005987	0,0005534	0,000300 - 0,000700
Arm Power	-0,000006865	-0,000004227	-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)	2,00	2,00	0,00	+/- 0.20
Medium Ring (in)	3,74	3,75	0,01	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6,40	6,50	0,10	+/- 0.20
Medium Ring (in)	8,25	8,25	0,00	+/- 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

SPECTRAL DENSITY SHOP CALIBRATION			
Tool Name:	SDLT Pad - 11628635	Reference Calibration Date:	04-Nov-23 12:05:34
Engineer:	Belkadi Abderrahmane	Calibration Date:	04-Nov-23 12:24:52
Software Version:	WL INSITE R6.6.7 (Build 8)	Calibration Version:	1

Logging Source S/N: 5574GW

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	1,0789	1,0895	0,90 - 1,10
Near Dens Gain	1,0510	1,0489	0,90 - 1,10
Near Peak Gain	1,0472	1,0484	0,90 - 1,10
Near Lith Gain	1,0402	1,0455	0,90 - 1,10
Far Bar Gain	1 0240	1 0226	0 90 - 1 10

Far Bar Gain	1,0077	1,0086	0,90 - 1,10
Far Peak Gain	1,0031	1,0025	0,90 - 1,10
Far Lith Gain	0,9820	0,9796	0,90 - 1,10
Near Bar Offset	-0,4628	-0,5590	NONE
Near Dens Offset	-0,1768	-0,1585	NONE
Near Peak Offset	-0,1343	-0,1461	NONE
Near Lith Offset	-0,0971	-0,1404	NONE
Far Bar Offset	-0,0168	-0,0059	NONE
Far Dens Offset	0,1138	0,1047	NONE
Far Peak Offset	0,1405	0,1469	NONE
Far Lith Offset	0,2772	0,2980	NONE
Near Bar Background	952,00	948,00	700 - 1450
Near Dens Background	316,03	314,83	230 - 480
Near Peak Background	139,68	139,33	100 - 210
Near Lith Background	168,00	166,67	125 - 260
Far Bar Background	605,28	603,68	450 - 900
Far Dens Background	238,45	240,48	175 - 345
Far Peak Background	93,90	93,94	70 - 140
Far Lith Background	96,96	98,86	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	2,556	2,560	0,004	+/- 0,150
ALUMINUM				
Density (g/cc)	2,612	2,611	-0,001	+/- 0,01500
Pe	3,150	3,146	-0,004	+/- 0,150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0,0006	+/- 0,0110	0,0004	+/- 0,0140
Magnesium Block	-0,0014	+/- 0,0110	-0,0020	+/- 0,0140
Aluminum Block	-0,0013	+/- 0,0110	-0,0005	+/- 0,0140
Resolution	9,06	6,00 - 11,50	8,81	6,00 - 11,50
Internal Verifier(B+D+P+L)	1569	1200 - 2700	1037	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

Tool Name: SDLT Pad - 11628635		Reference Calibration Date: 04-Nov-23 12:24:52	
Engineer: Belkadi Abderrahmane		Calibration Date: 04-Nov-23 12:28:54	
Software Version: WL INSITE R6.6.7 (Build 8)		Calibration Version: 1	

Pad Temperature: 16,1 degC

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1568,831	1570,039	1,208	15,937
Far (B+D+P+L) cps	1036,957	1038,431	1,474	17,144
Near Resolution	9,06	9,01	-0,050	0,50
Far Resolution	8,81	8,79	-0,020	1,00

PASS/FAIL SUMMARY	
Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11705766						
Gamma Ray Calibrator	245,2	-----	-----	0,0	+/- 9,00	api
CSNG-11605111						
60 KEV Peak Channel #	48,0	-----	-----	0,0	-----	Channel #
239 KEV Peak Channel #	23,2	-----	-----	0,0	-----	Channel #
583 KEV Peak Channel #	51,9	-----	-----	0,0	-----	Channel #
2614 KEV Peak Channel #	213,1	-----	-----	0,0	-----	Channel #
DSNT-11184140						
Snow-Block Porosity	0,0695	-----	-----	0,0000	+/- -,-	decp
SDLT-12153296						
Pad Extension	3,75	-----	-----	0,00	+/-0,20	in
Ring Diameter	8,25	-----	-----	0,00	+/-0,20	in
SDLT Pad-11628635						
Near(B+D+P+L)	1568,831	1570,039	-----	-1,208	+/-15,937	cps
Far(B+D+P+L)	1036,957	1038,431	-----	-1,474	+/-17,144	cps

Data: AMS-01-8_50002 R2-RWCH-MCSA-GTET-DSNT-SDLTIDLE		Date: 23-Nov-23 04:24:28	
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COMPANY	EBN BV
WELL	Amstelland-1
FIELD	Ouder Amsel
COUNTRY	NETHERLANDS
	RIG RED-E200

HALLIBURTON	DUAL SPACED NEUTRON TOOL SPECTRAL DENSITY TOOL SECTION 8.5 INCH ***FIELD PRINT*** SCALE 1:200, 1:500
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