

HALLIBURTON

BORE HOLE
COMPENSATED SONIC ARRAY
LOG

COMPANY		OXY USA INC	
WELL		GARDEN CITY V-1	
FIELD		GARDEN CITY	
COUNTY		FINNEY	
STATE		KANSAS	
Permanent Datum Log measured from Drilling measured from	GL KB KB	Sect. 27 Twp. 23S Rge. 34W	Other Services: DSN/SDL ACRT MICRO
	Elev. 2959.0 ft D.F. G.L.		
Date	25-Feb-12		
Run No.	ONE		
Depth - Driller	4960.00 ft		
Depth - Logger	4945.0 ft		
Bottom - Logged Interval	4918.0 ft		
Top - Logged Interval	3740.0 ft		
Casing - Driller	8.625 in @ 1830.0 ft		
Casing - Logger	1824.0 ft		
Bit Size	7.875 in		
Type Fluid in Hole	WATER BASED MUD		
Density	9.5 ppq	44.00 s/qt	
PH	9.10 pH	9.6 cp/m	
Source of Sample	FLOWLINE		
Rm @ Meas. Temperature	0.710 ohmm @ 75.00 degF		
Rmf @ Meas. Temperature	0.61 ohmm @ 75.00 degF		
Rmc @ Meas. Temperature	0.820 ohmm @ 75.00 degF		
Source Rmf	MEASURED	MEASURED	
Rm @ BHT	0.49 ohmm @ 112.0 degF		
Time Since Circulation	7.0 hr		
Time on Bottom	25-Feb-12 19:26		
Max. Rec. Temperature	112.0 degF @ 4945.0 ft		
Equipment	10782954	LIBERAL	
Recorded By	T. HYDE		
Witnessed By	A. GARNER	D. COOK	

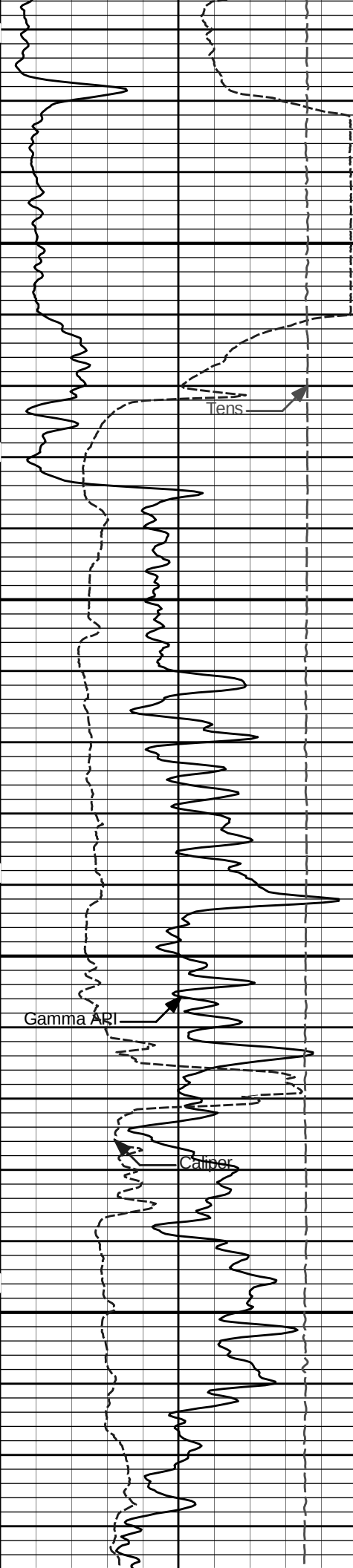
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Service Ticket No.: 9309817						API Serial No.: 15-055-22128						PGM Version: WL INSITE R3.4.2 (Build 2)																	
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE												RESISTIVITY SCALE CHANGES																	
Date		Sample No.										Type Log		Depth		Scale Up Hole				Scale Down Hole									
Depth-Driller																													
Type Fluid in Hole																													
Density		Viscosity																											
Ph		Fluid Loss																											
Source of Sample												RESISTIVITY EQUIPMENT DATA																	
Rm @ Meas. Temp				@				@				Run No.		Tool Type & No.				Pad Type				Tool Pos.				Other			
Rmf @ Meas. Temp.				@				@				ONE		ACRT				N/A				1.5" S.O.				N/A			
Rmc @ Meas. Temp.				@				@						I1256_S0784															
Source Rmf		Rmc										ONE		MICRO				RUBBER				ADJ				N/A			
Rm @ BHT				@				@						I066_M85803 _															
Rmf @ BHT				@				@						P45															
Rmc @ BHT				@				@																					
EQUIPMENT DATA																													
GAMMA						ACOUSTIC						DENSITY						NEUTRON											
Run No.		ONE				Run No.		ONE				Run No.		ONE				Run No.		ONE									
Serial No.		10811258				Serial No.		10747683				Serial No.		I145_M85803_P45				Serial No.		10755066									
Model No.		GTET				Model No.		BSAT				Model No.		SDLT				Model No.		DSNT									
Diameter		3.625"				No. of Cent.		2				Diameter		4.5"				Diameter		3.625"									
Detector Model No.		T-102				Spacing		.5				Log Type		GAM-GAM				Log Type		NEU-NEU									
Type		SCINT										Source Type		Cs137				Source Type		Am241Be									
Length		8"				LSA [Y/N]		YES				Serial No.		5073GW				Serial No.		DSN-436									
Distance to Source		10'				FWDA [Y/N]		YES				Strength		1.5Ci				Strength		15Ci									

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	
ONE	4945	1824	REC	0	150	30	-10	47.6	30	-10	2.71	30	-10	LIME
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks:														
ACRT, BSAT, SDL, MICRO, DSN, GR RUN IN COMBINATION														
ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING														
CHLORIDES 7000 PPM														
LCM 1 LB/BBL														
TODAY'S CREW A. VAQUERO B. TERRELL														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES LIBERAL, KS 620-624-8123														
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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5 INCH MAIN LOG



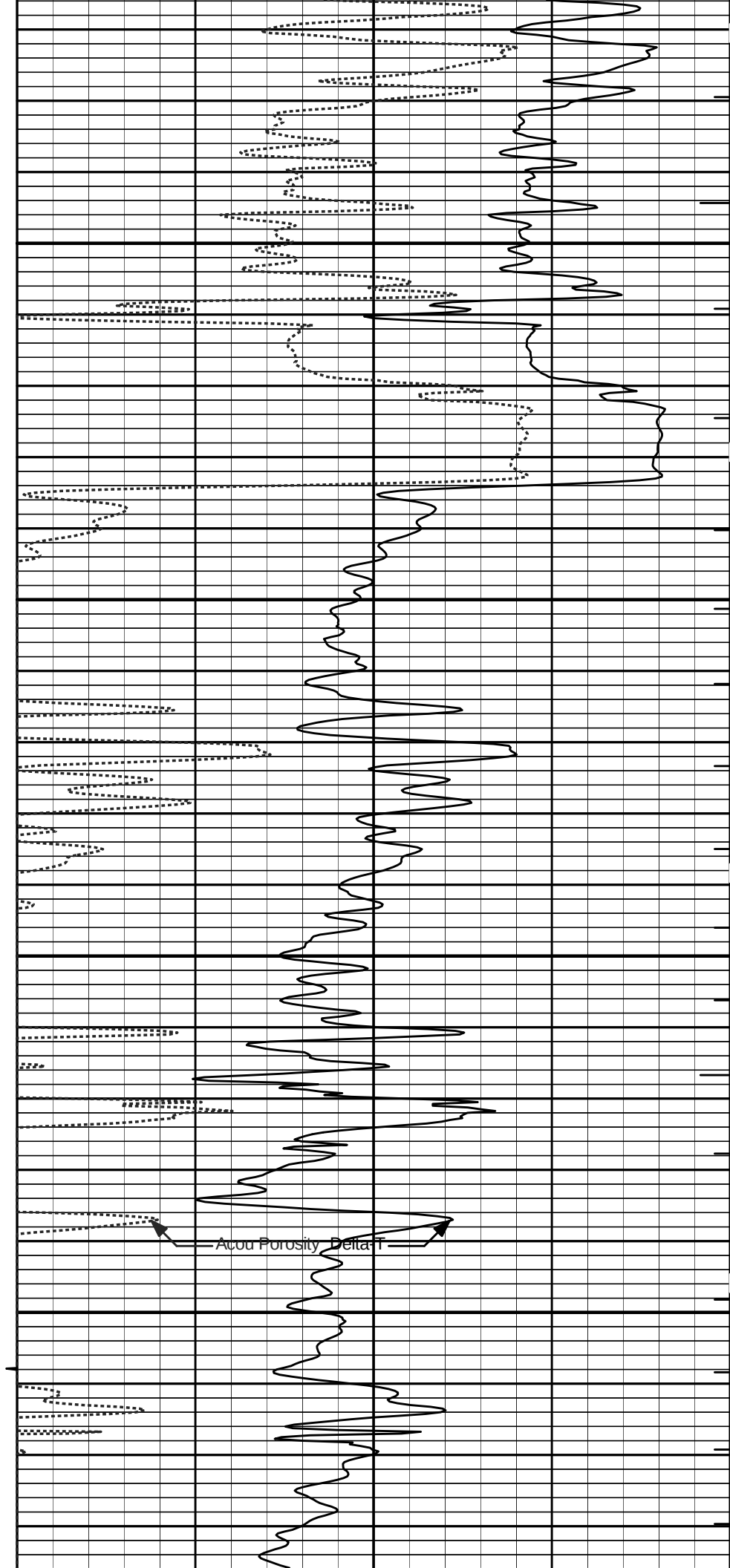
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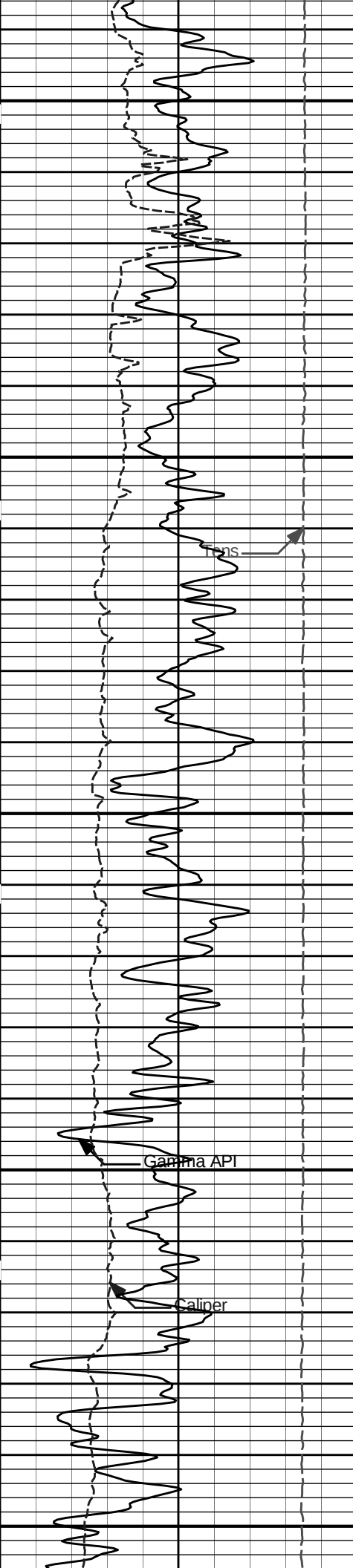
Gamma API

Tens.

Caliper



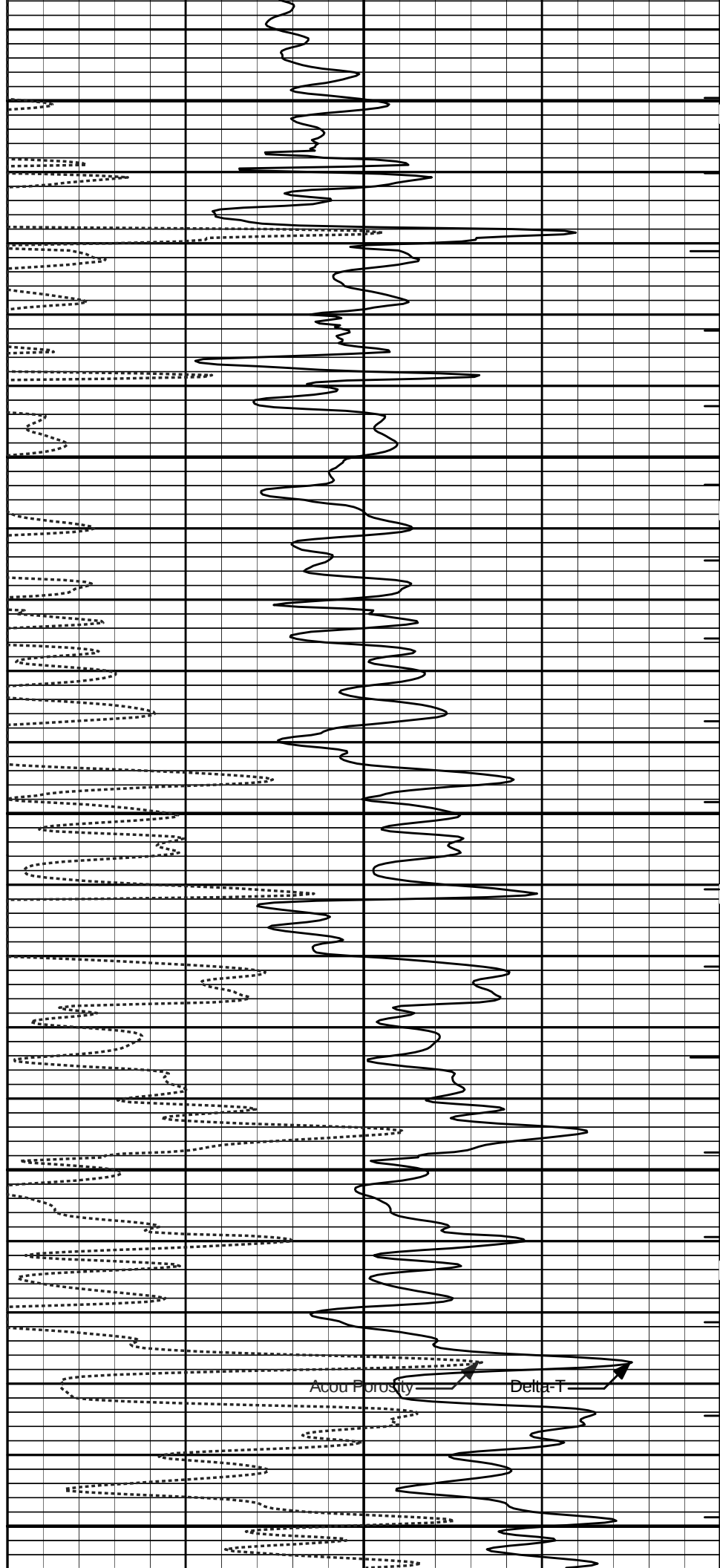
Acou Porosity Delta T

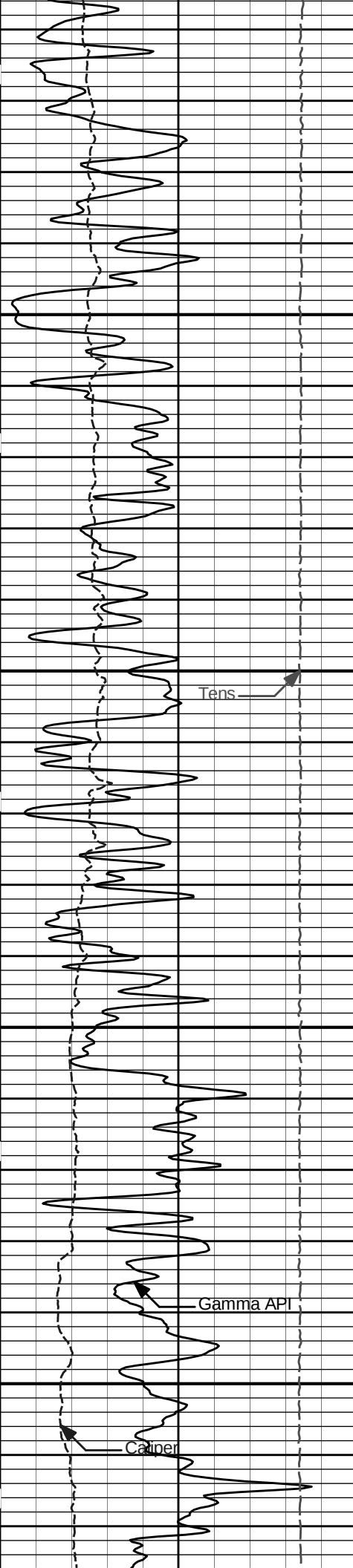


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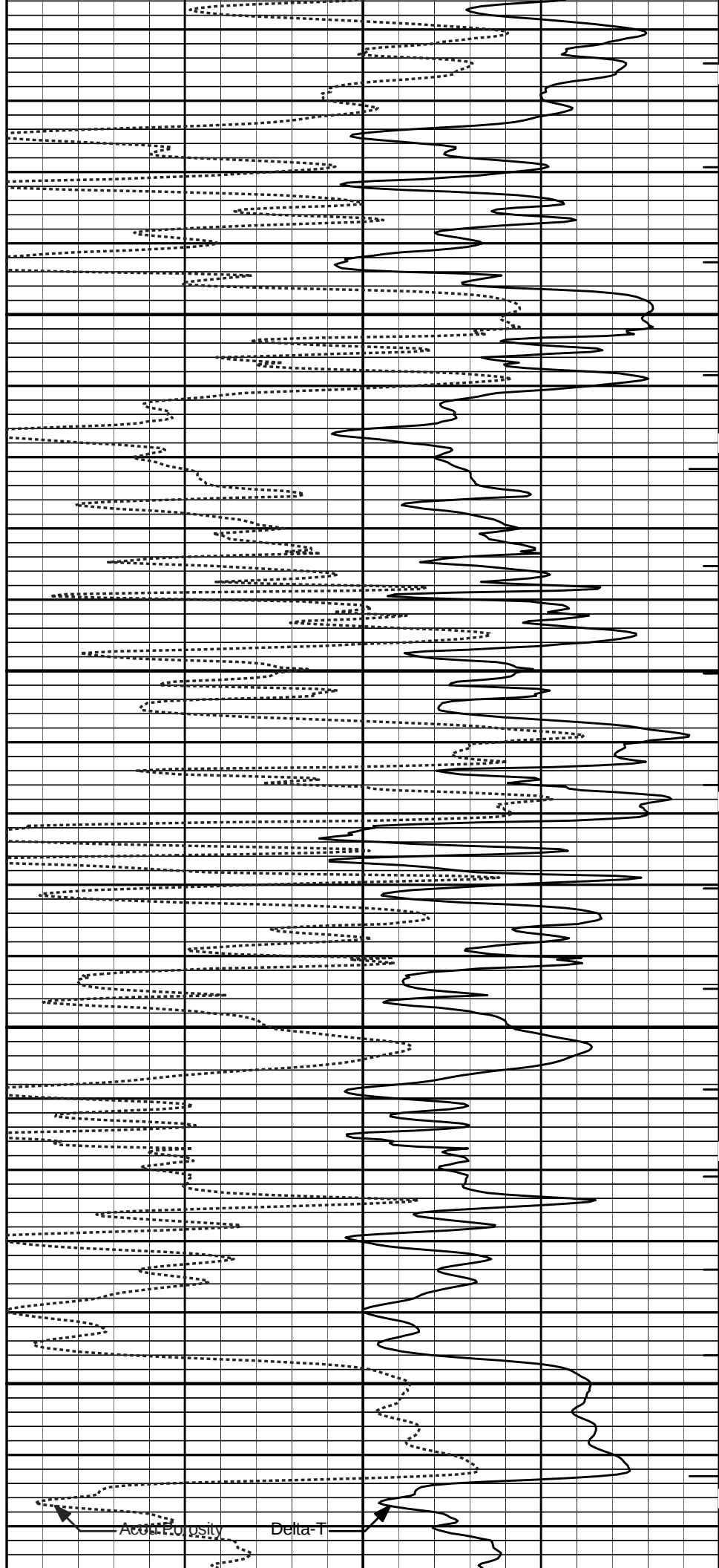
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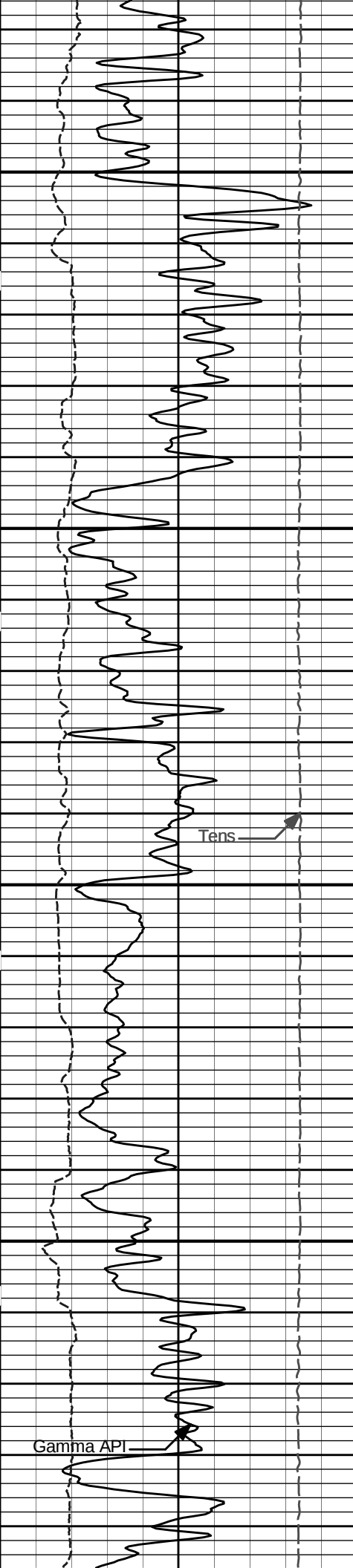




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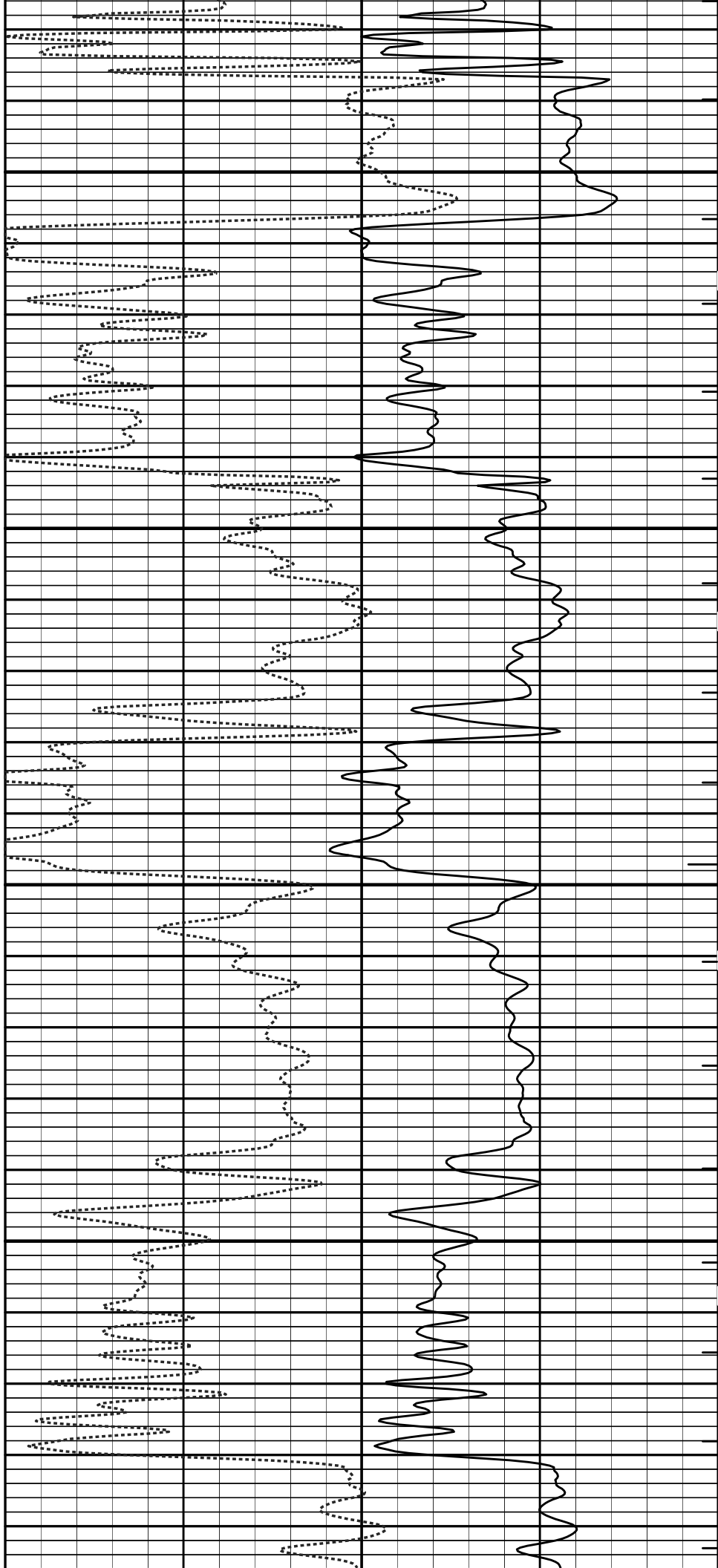
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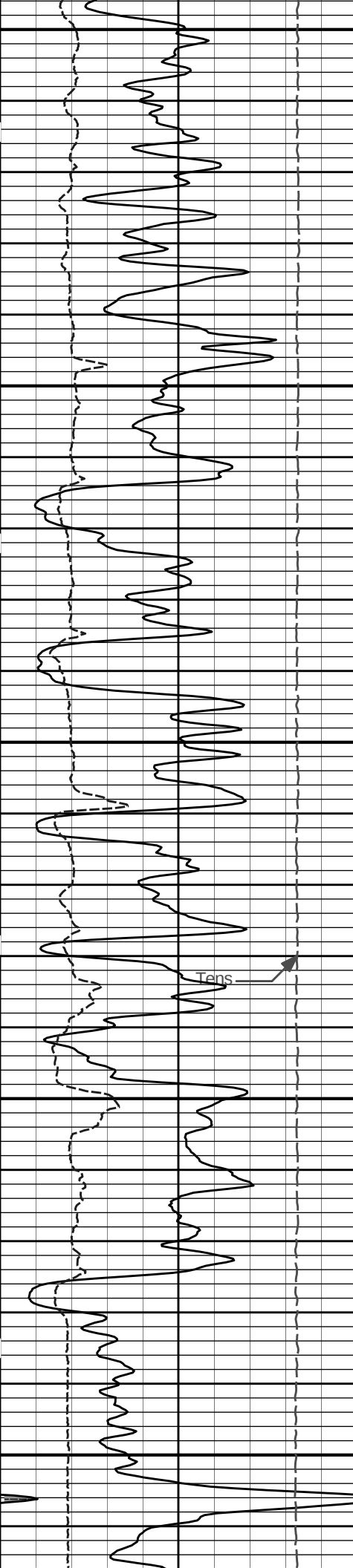




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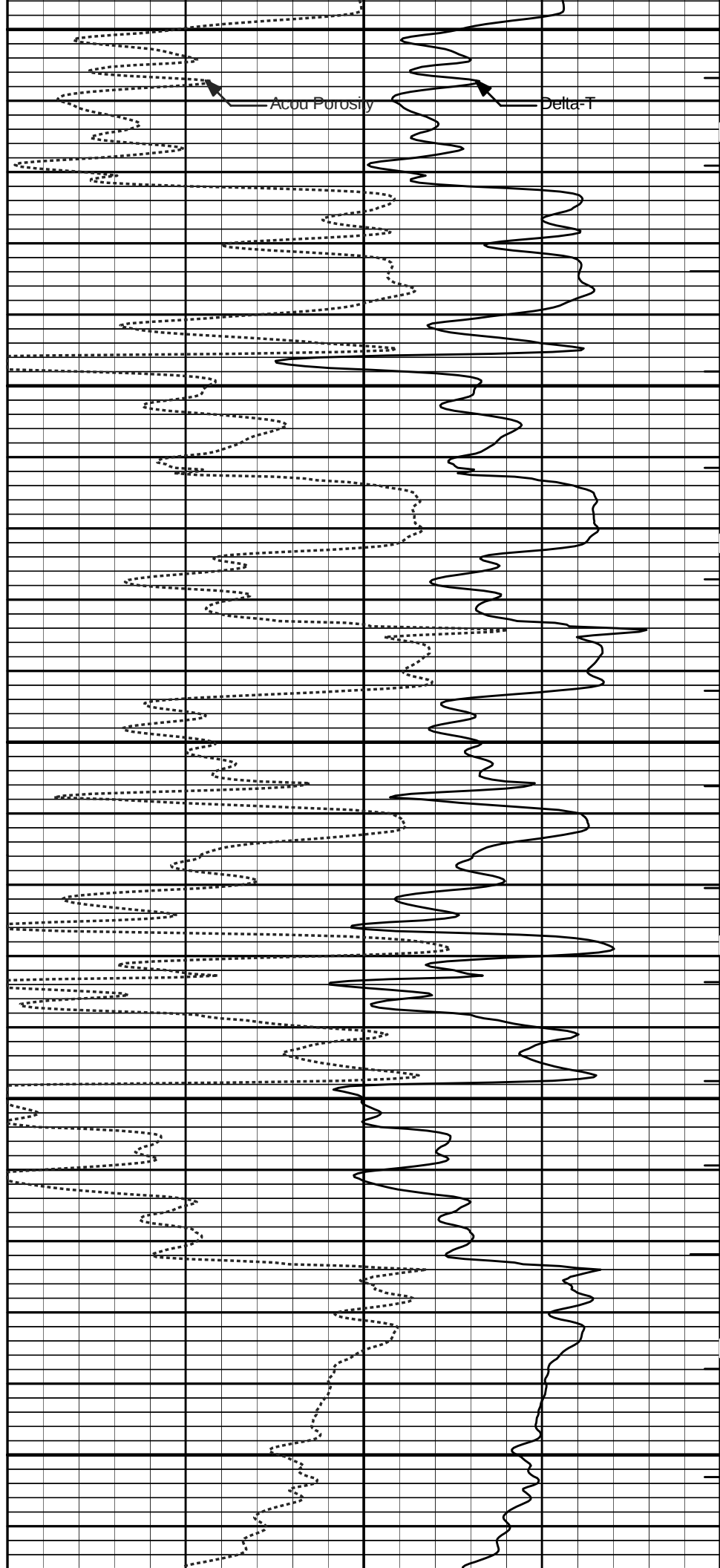
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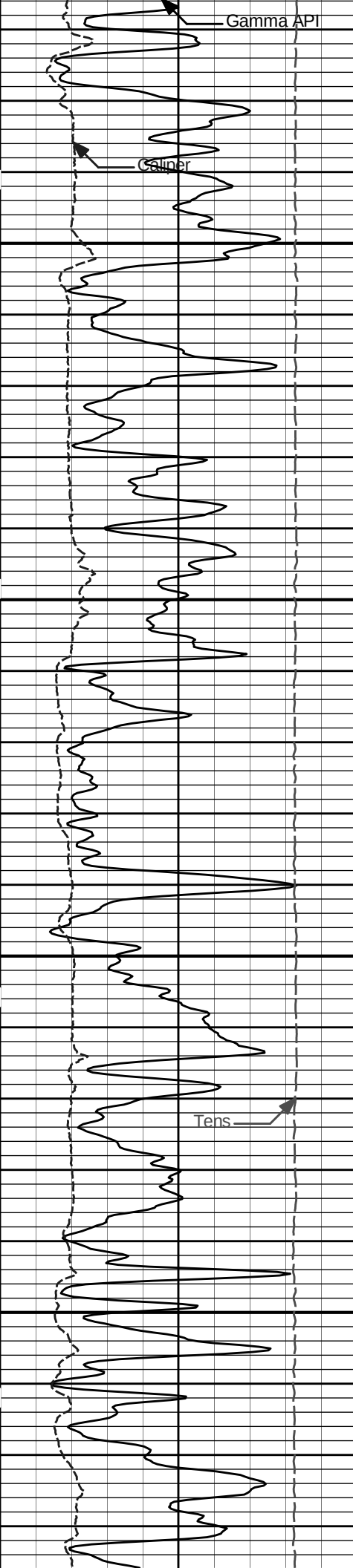




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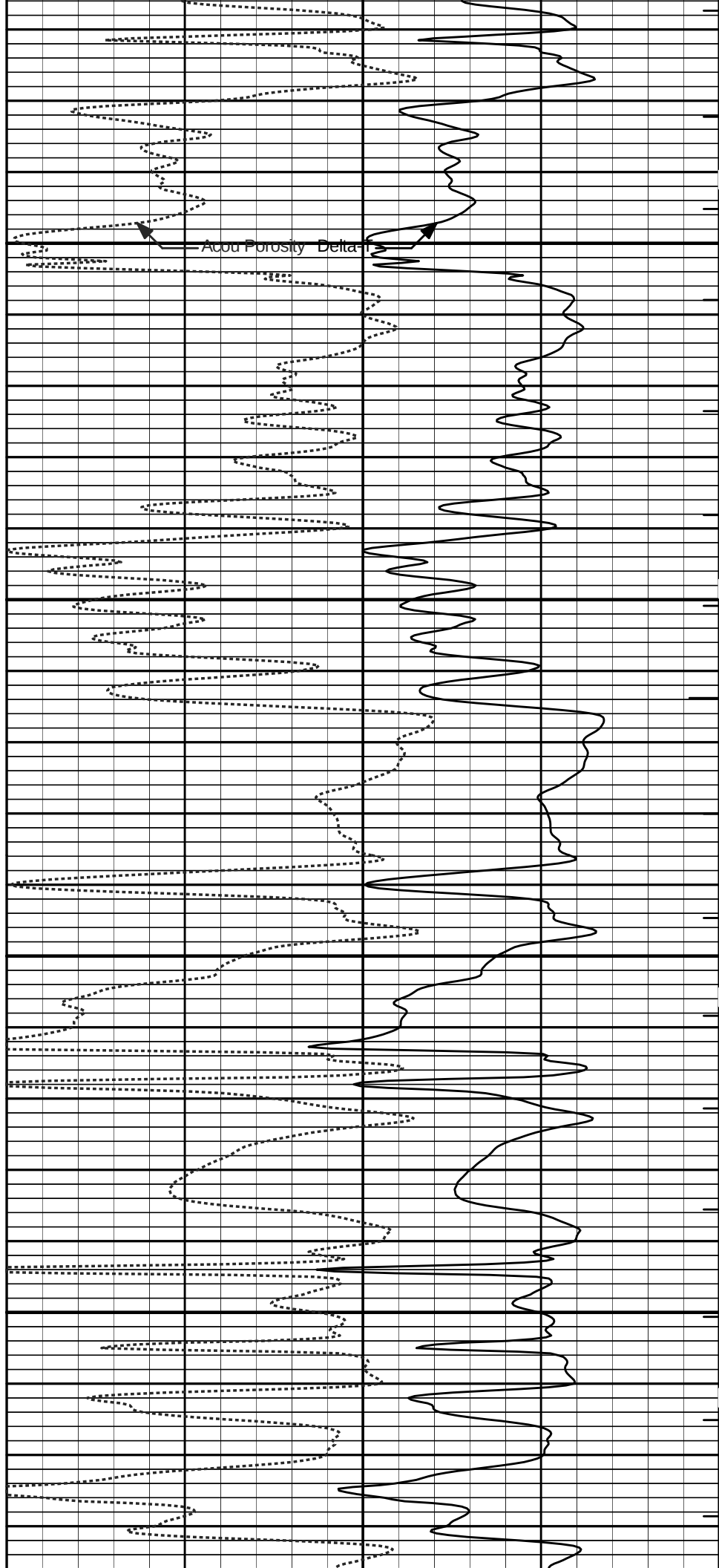
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3000

3100



Acou Porosity Delta-1

3200

Gamma API

Caliper

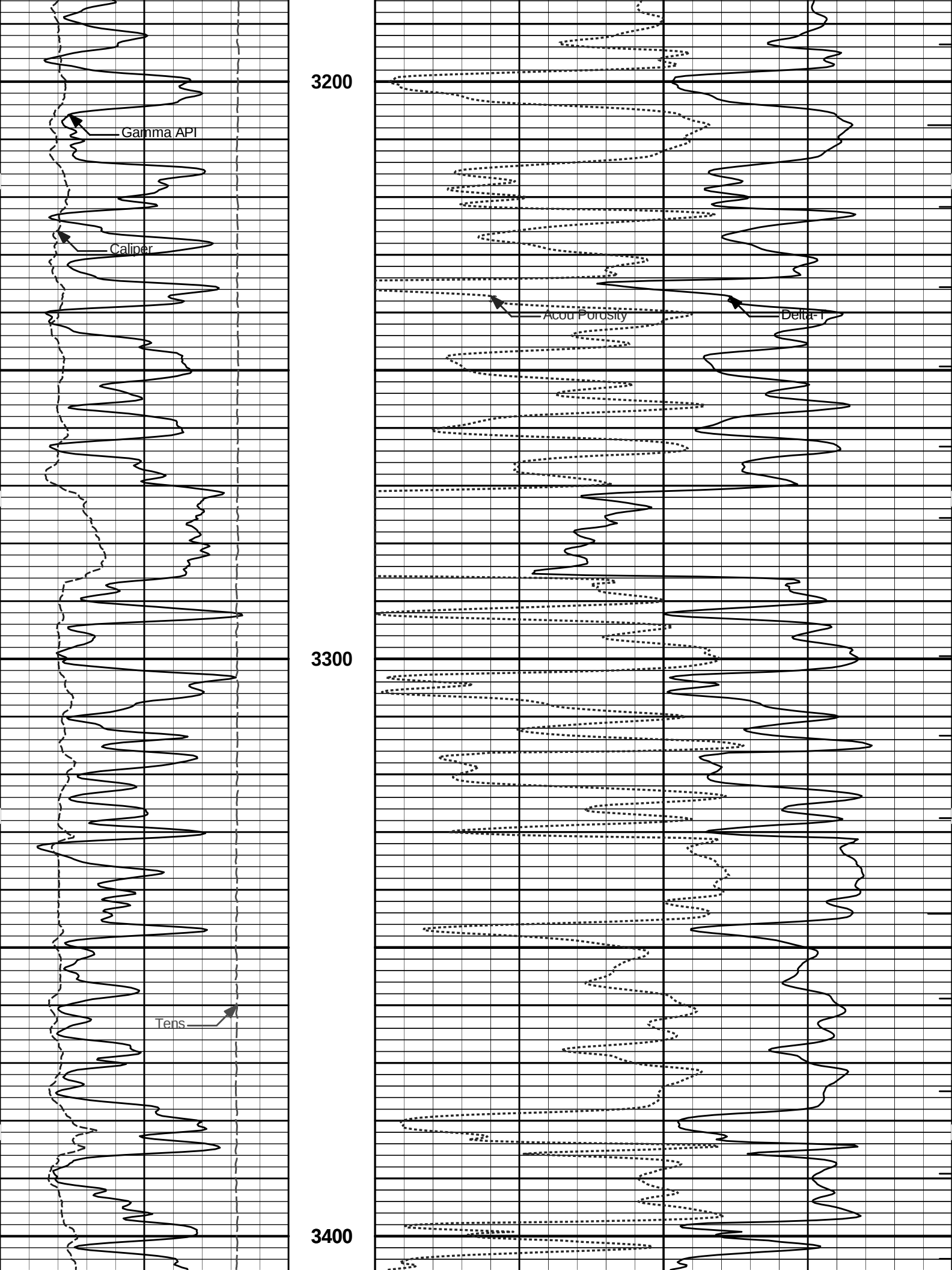
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Tens

3400

Acou Porosity

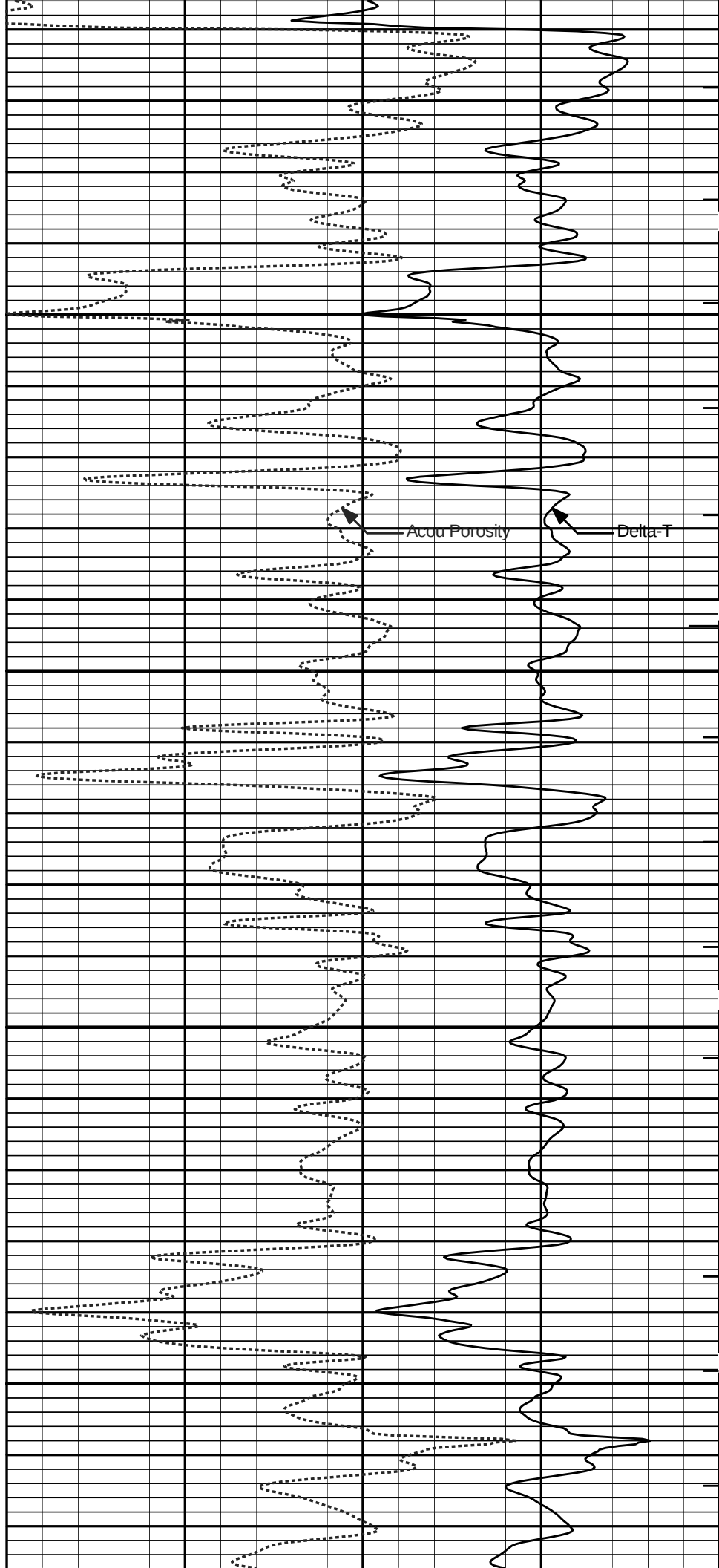
Delta T

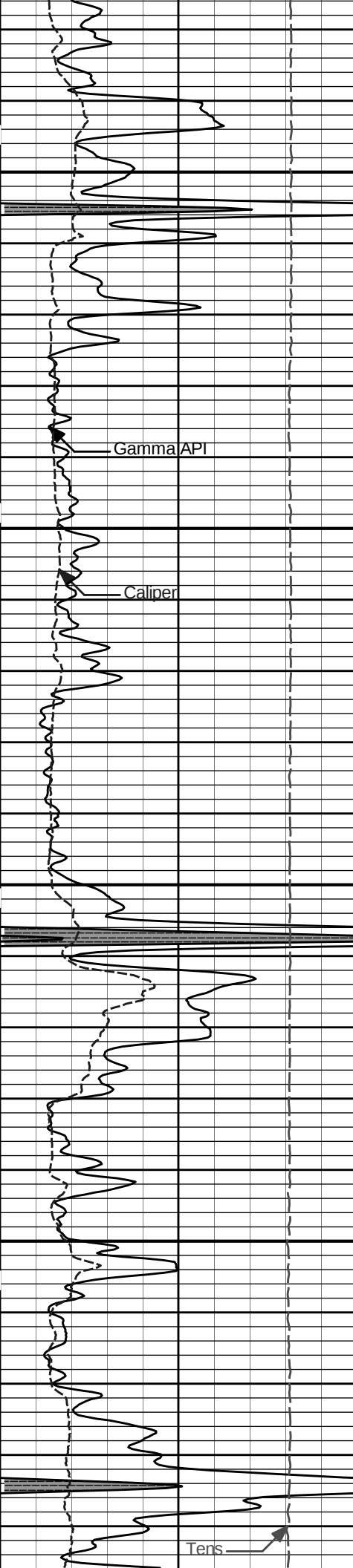




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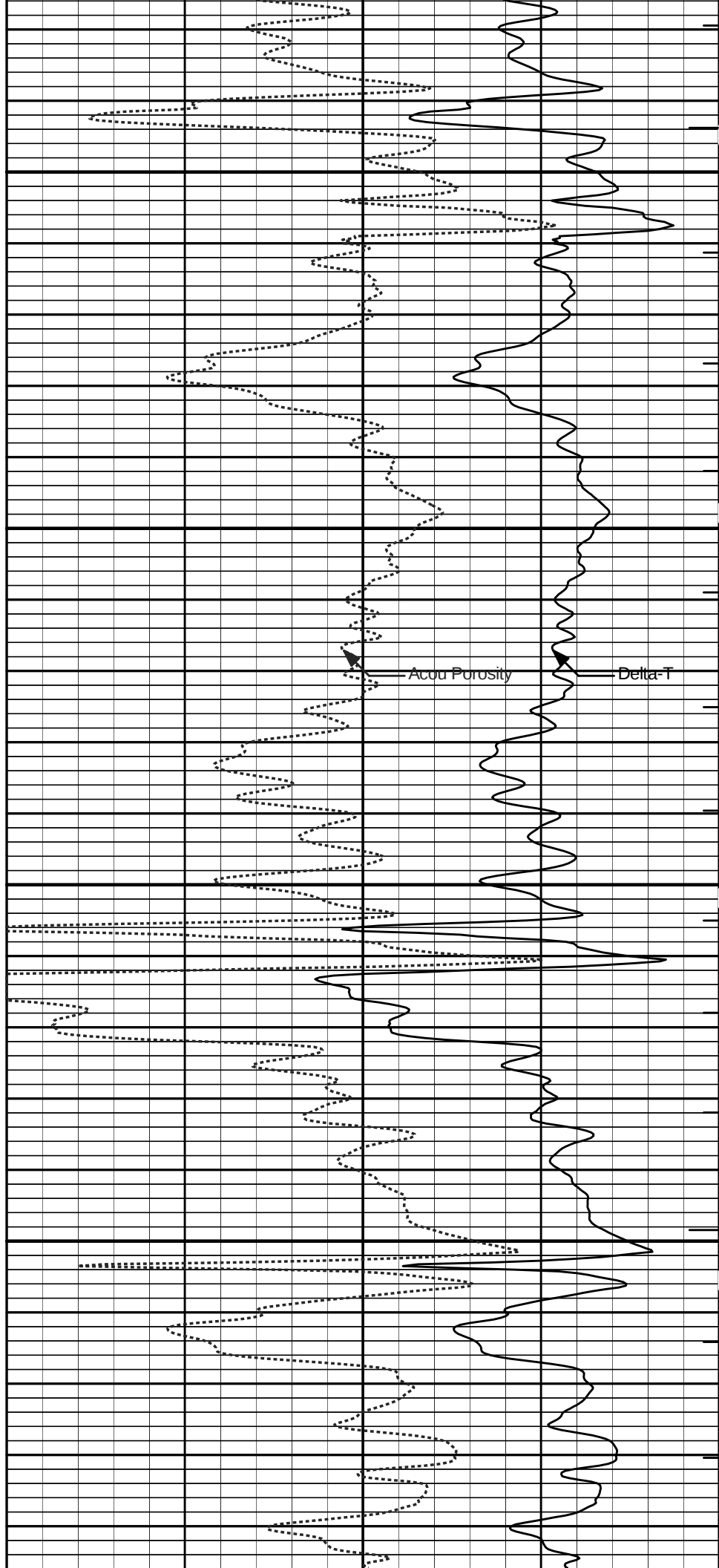
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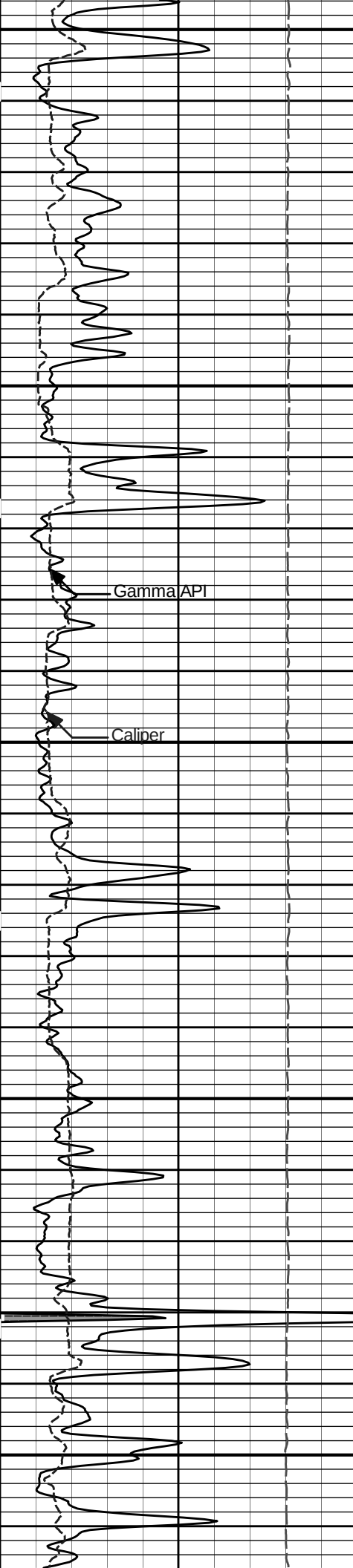




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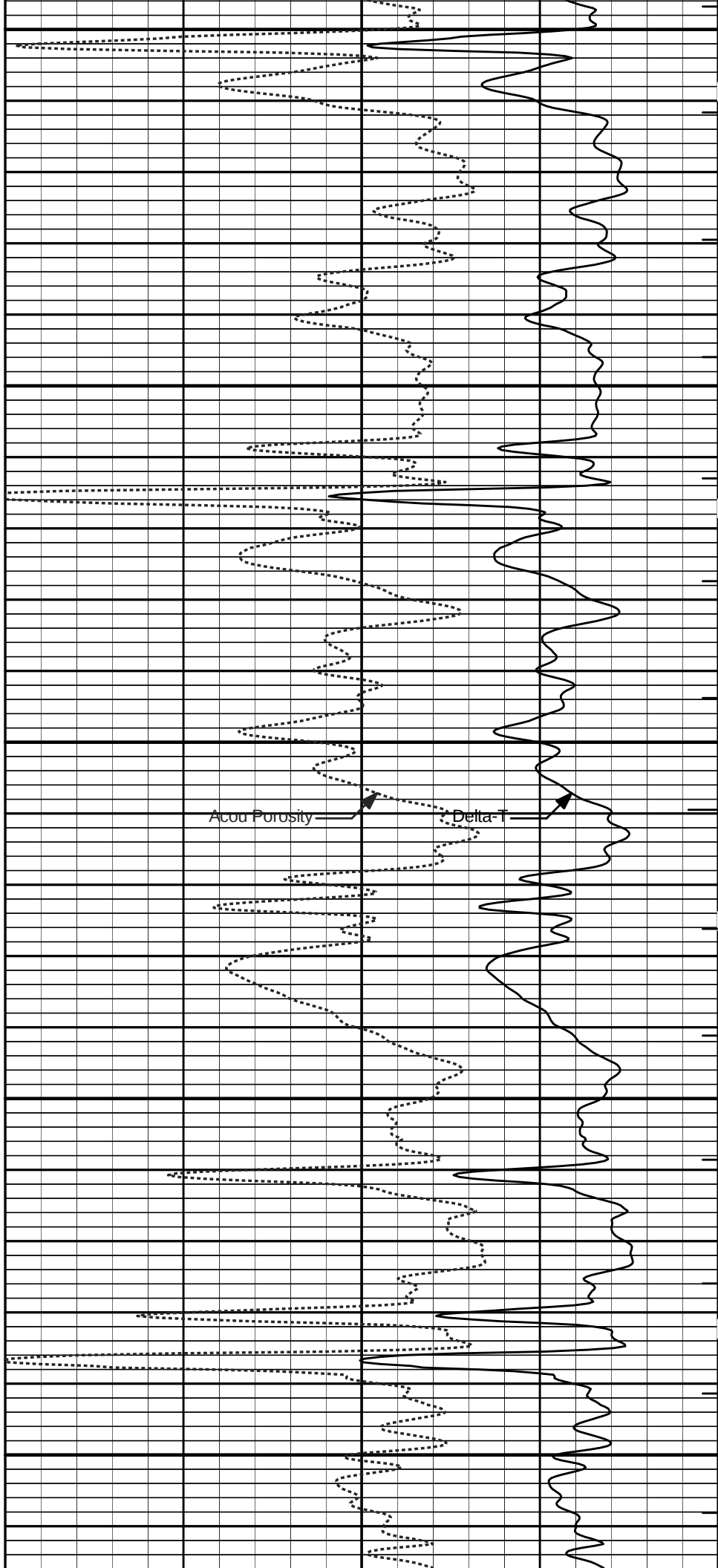
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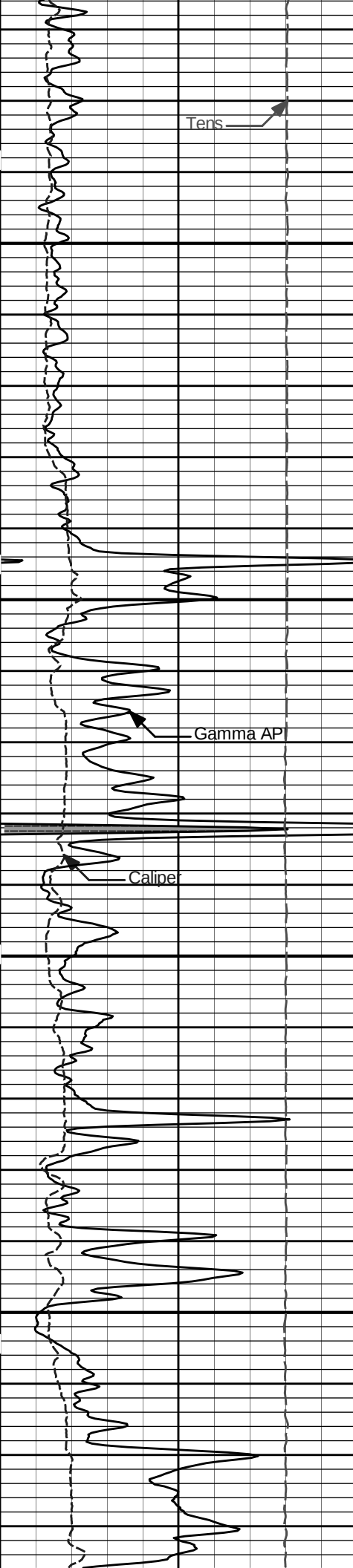




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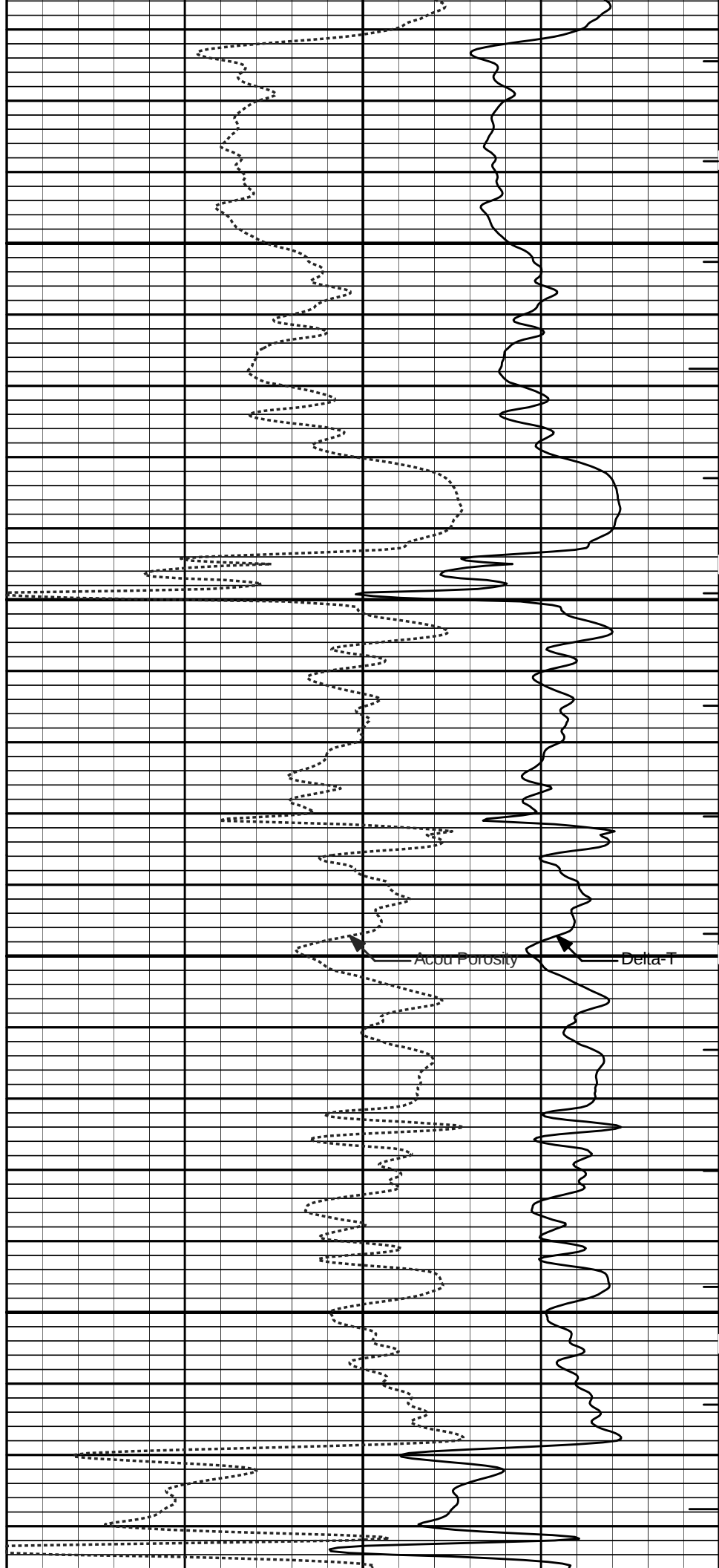
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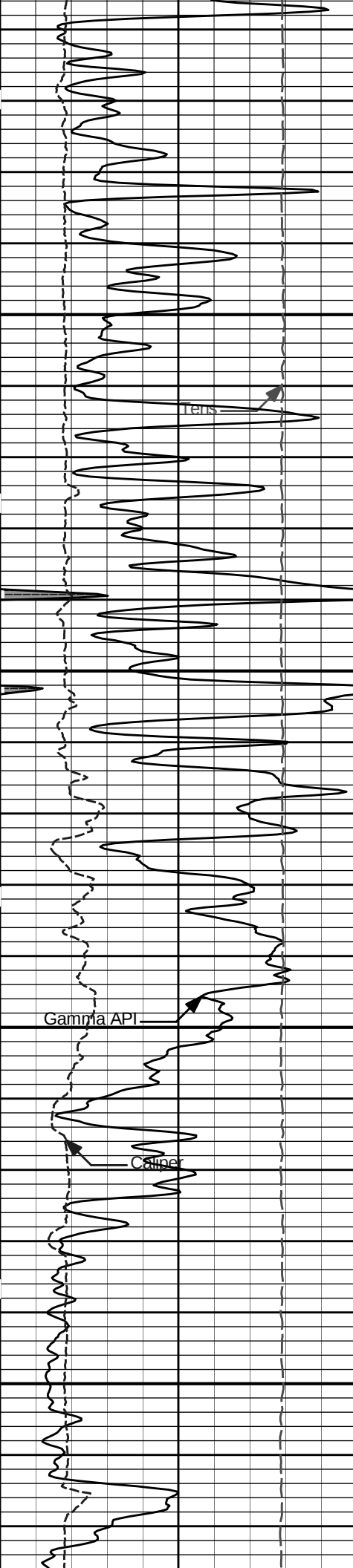




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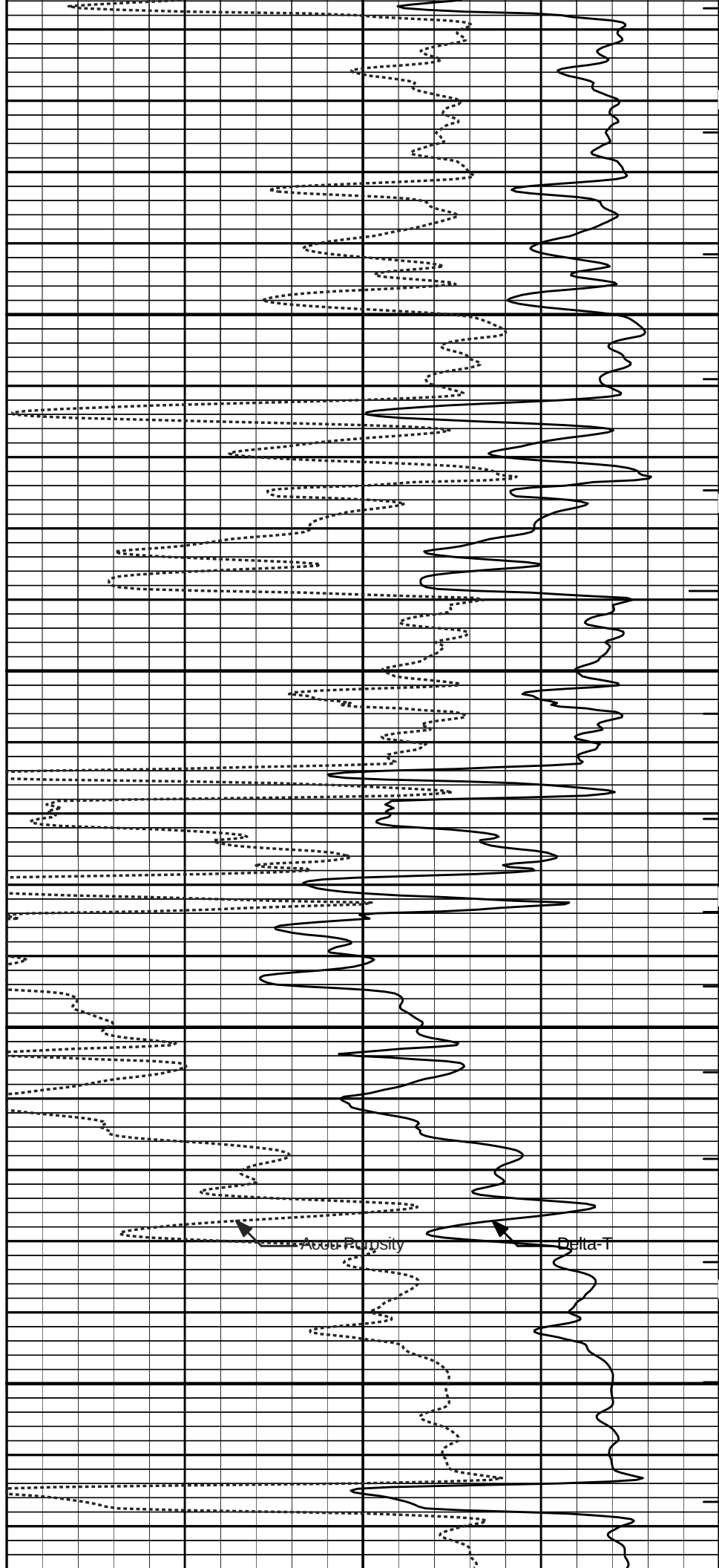
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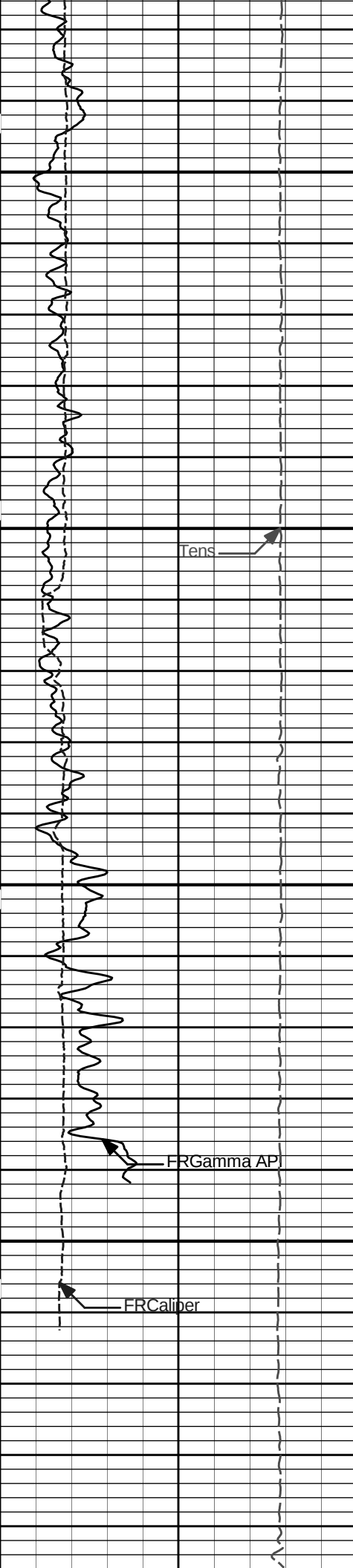




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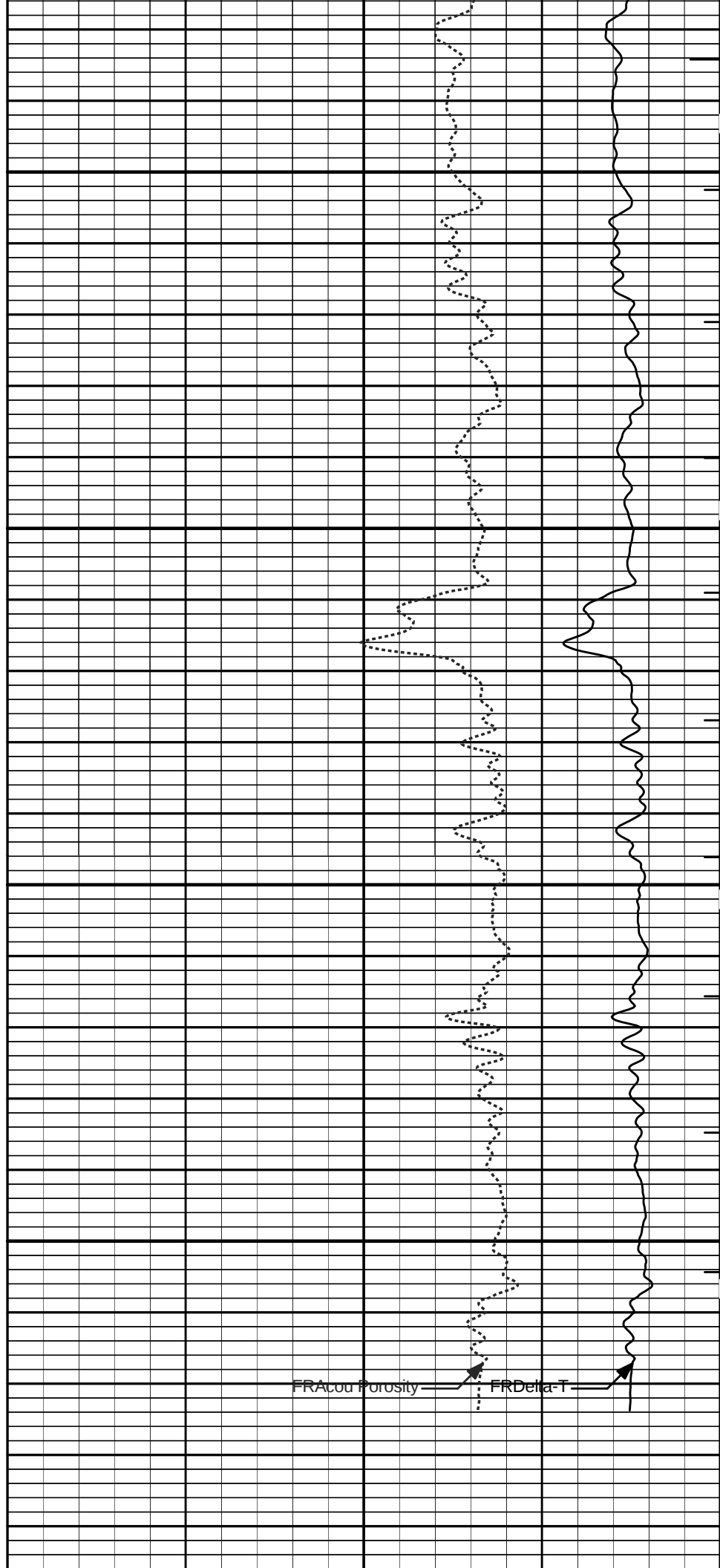
4700





4800

TD
4900



FRCaliber

FRCaliber

FRCaliber

15K	Tens	0	1 : 240		
pounds			ft	ITTT —	
0	Gamma API	150	Tension Pull	140	Delta-T
api			10 0	microsec per ft	
6	Caliper	16	Tension Pull	30	Acou Porosity
inches				percent	
SHALE					

HALLIBURTON

Plot Time: 25-Feb-12 22:21:38

Plot Range: 1814 ft to 4951.33 ft

Data: GARDEN_CITY_V_1\Well Based\DAQ-0001-004\

Plot File: \\BSAT\BSAT_5_MAIN_LIB

5 INCH MAIN LOG

HALLIBURTON

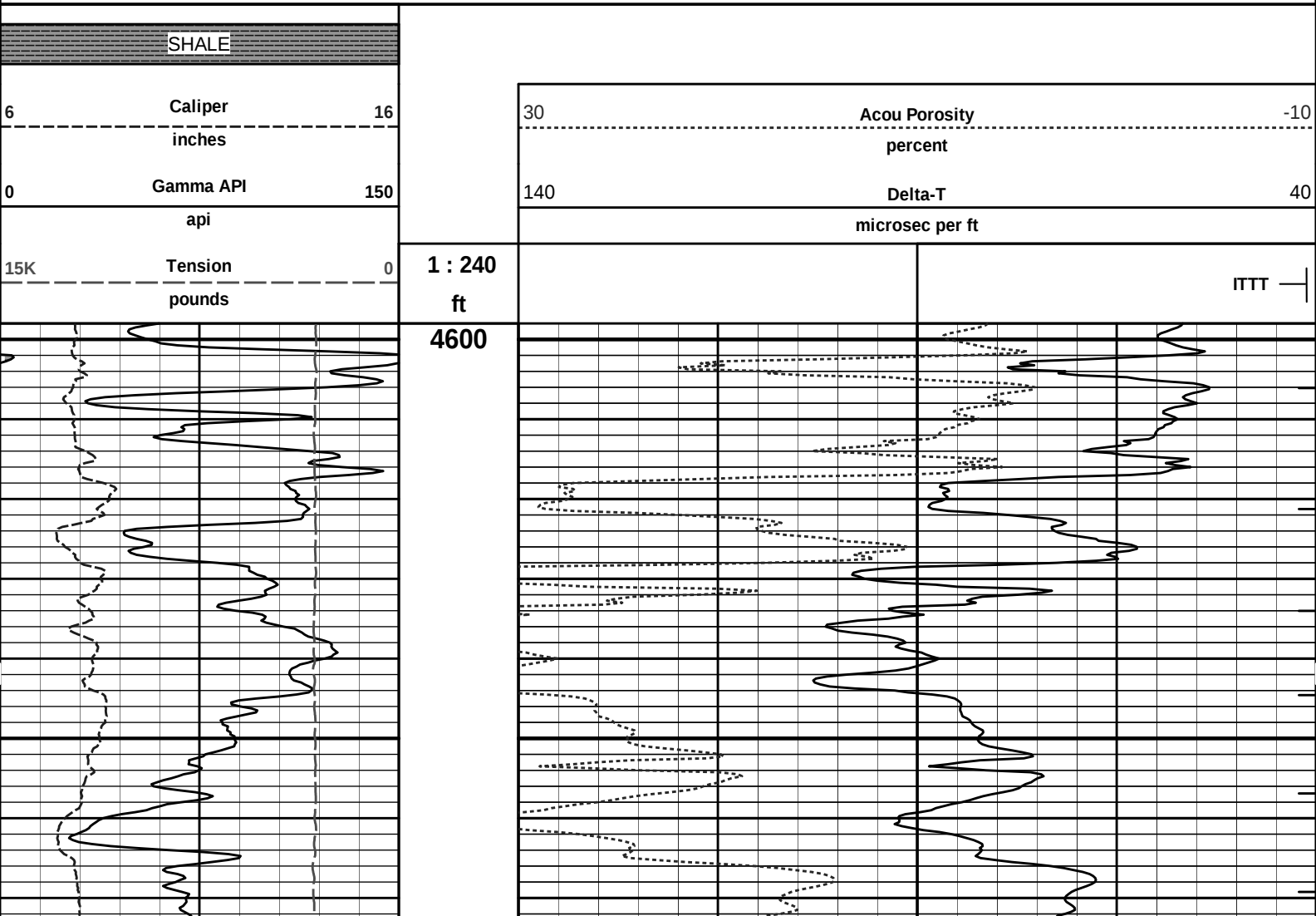
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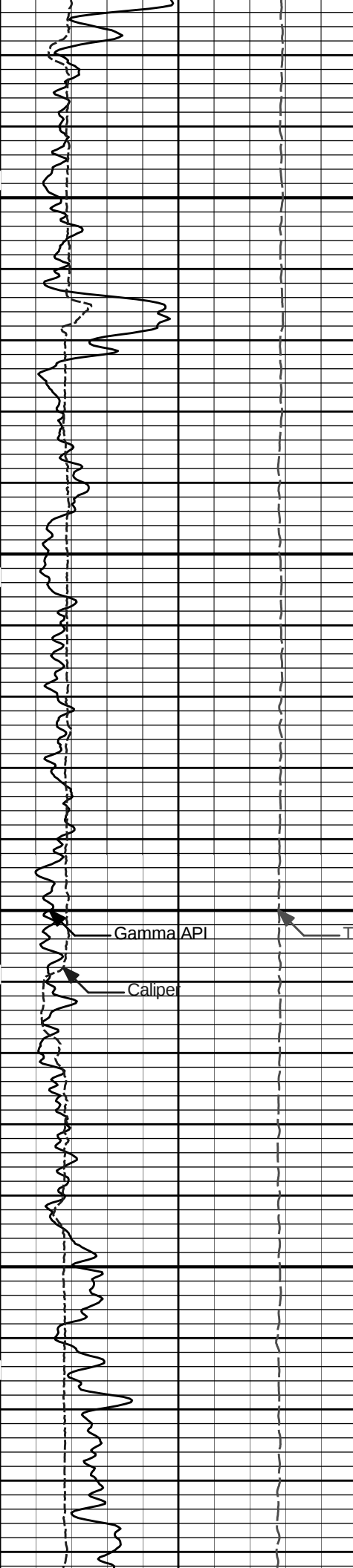
Plot Range: 4598 ft to 4952.75 ft

Data: GARDEN_CITY_V_1\Well Based\DAQ-0001-003\

Plot File: \\BSAT\BSAT_5_REP_LIB

REPEAT SECTION





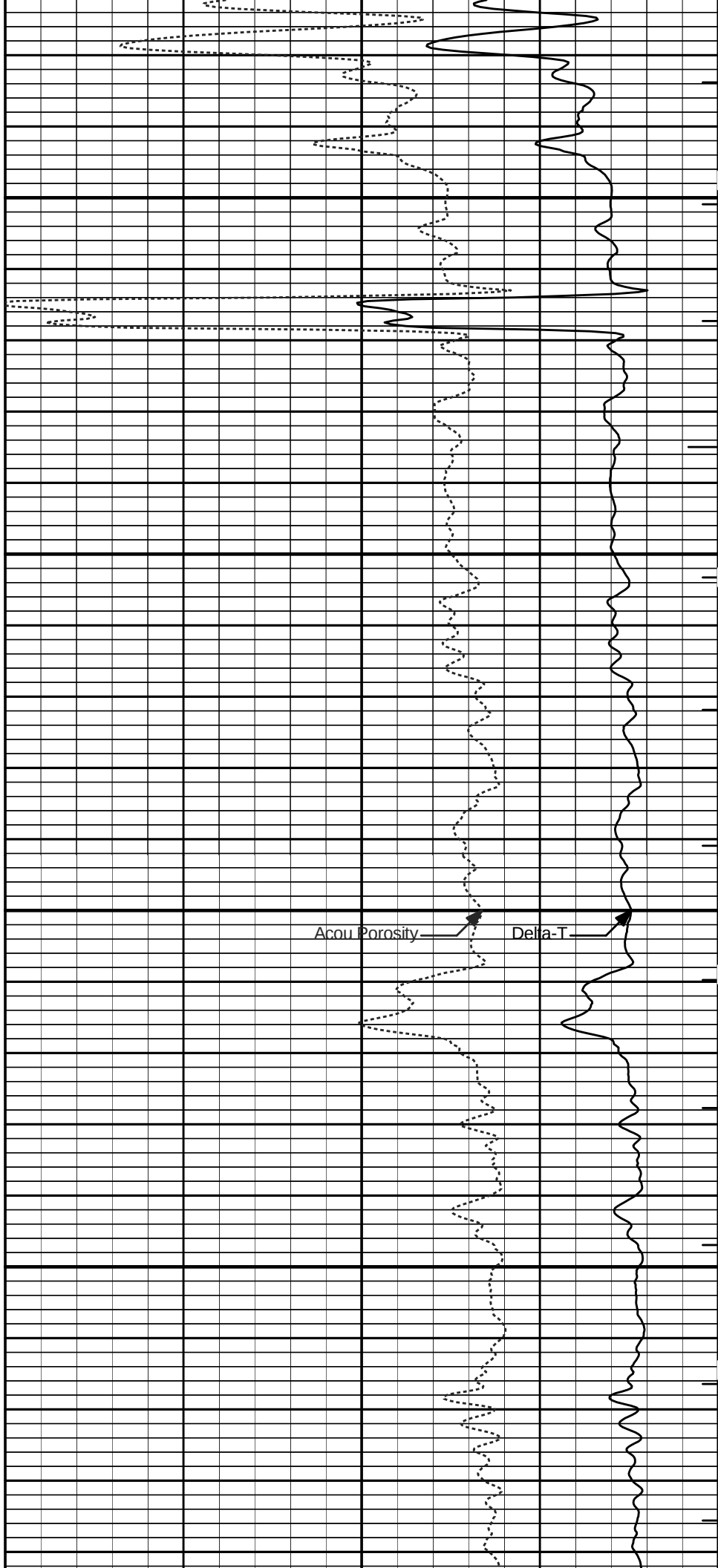
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4800

Gamma API

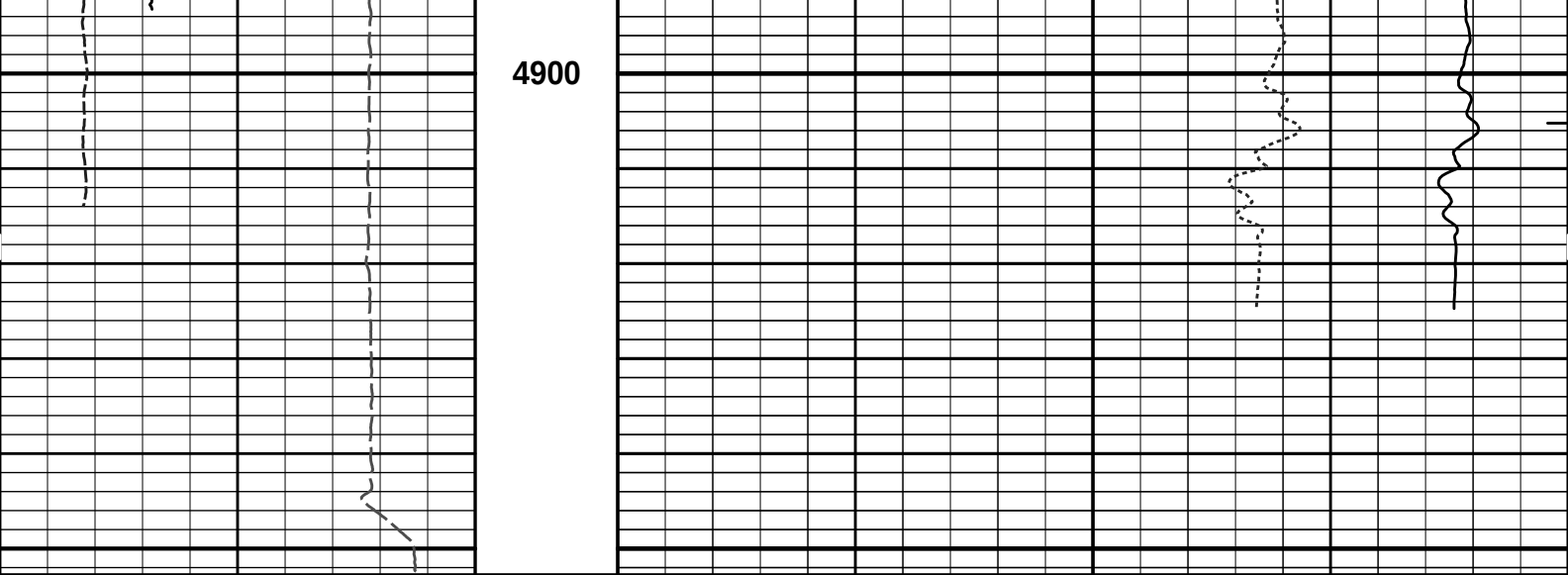
Caliper

Tension



Acou Porosity

Delta-T



15K	Tension	0	1 : 240		ITTT
	pounds		ft		
0	Gamma API	150		140	Delta-T
	api				microsec per ft
6	Caliper	16		30	Acou Porosity
	inches				percent
SHALE					

HALLIBURTON

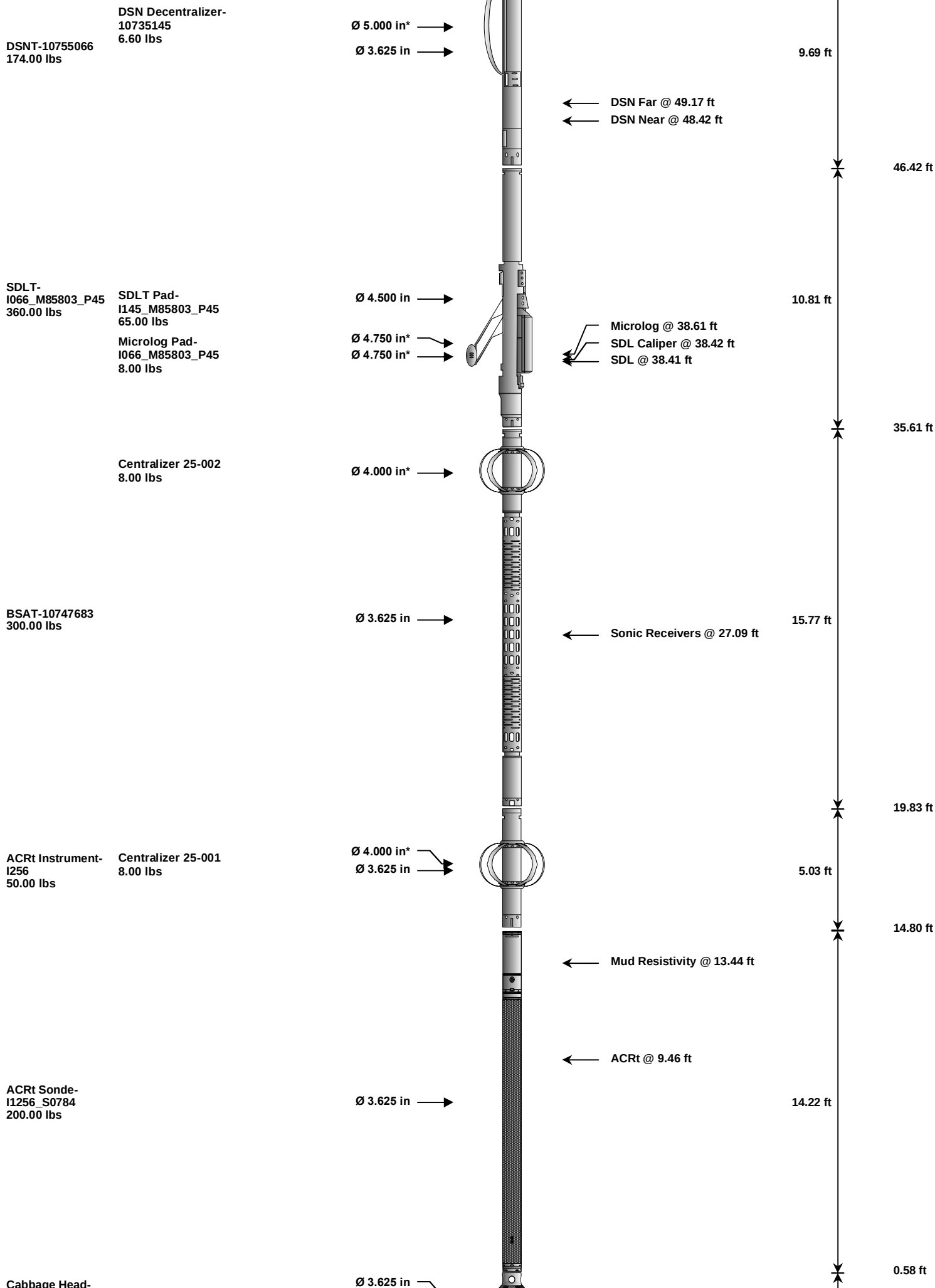
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Plot Range: 4598 ft to 4952.75 ft
Data: GARDEN_CITY_V_1\Well Based\DAQ-0001-003\
Plot File: \BSAT\BSAT_5_REP_LIB

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
Cable Head- PROT01 30.00 lbs		Ø 3.625 in →			1.92 ft	70.28 ft
SP Sub-PROT01 60.00 lbs		Ø 3.625 in →		← SP @ 66.59 ft	3.74 ft	68.36 ft
						64.63 ft
GTET-10811258 165.00 lbs		Ø 3.625 in →		← GammaRay @ 58.56 ft	8.52 ft	56.11 ft



TRK954 10.00 lbs		Ø 6.000 in →		0.58 ft ↓	0.00 ft	
Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH	Standard OH Cable Head	PROT01	30.00	1.92	68.36	300.00
SP	SP Sub	PROT01	60.00	3.74	64.63	300.00
GTET	Gamma Telemetry Tool	10811258	165.00	8.52	56.11	60.00
DSNT	Dual Spaced Neutron	10755066	174.00	9.69	46.42	60.00
DCNT	DSN Decentralizer	10735145	6.60	5.13	* 49.75	300.00
SDLT	Spectral Density Tool	I066_M85803_P45	360.00	10.81	35.61	60.00
MICP	Microlog Pad	I066_M85803_P45	8.00	1.00	* 38.11	60.00
SDLP	Density Insite Pad	I145_M85803_P45	65.00	2.55	* 37.82	60.00
BSAT	Borehole Sonic Array Tool	10747683	300.00	15.77	19.83	60.00
OBCEN	Centralizer - 25 in. Overbody	002	8.00	2.08	* 32.76	300.00
ACRt	Array Compensated True Resistivity Instrument Section	I256	50.00	5.03	14.80	300.00
OBCEN	Centralizer - 25 in. Overbody	001	8.00	2.08	* 16.44	300.00
ACRt	Array Compensated True Resistivity	I1256_S0784	200.00	14.22	0.58	300.00
CBHD	Cabbage Head	TRK954	10.00	0.58	0.00	300.00
Total			1,444.60	70.28		
* Not included in Total Length and Length Accumulation.						
Data: GARDEN_CITY_V_110001 SP-GTET-DSN-SDL-BSAT-ACRT-CHIDLE					Date: 25-Feb-12 17:30:03	

HALLIBURTON				
CALIBRATION REPORT				
NATURAL GAMMA RAY TOOL SHOP CALIBRATION				
Tool Name:	GTET - 10811258		Reference Calibration Date:	25-Oct-11 17:21:30
Engineer:	C. HAVERKAMP		Calibration Date:	23-Jan-12 13:31:58
Software Version:	WL INSITE R3.4.2 (Build 2)		Calibration Version:	1
Calibrator Source S/N: TB-185				
Calibrator API Reference:228.00 api				
Equivalent Calibrator API Reference:232.0 api				
	Measurement	Measured	Calibrated	Units
	Background	43.3	42.9	api
	Background + Calibrator	277.3	274.9	api
	Calibrator	234.0	232.0	api
NATURAL GAMMA RAY TOOL FIELD CALIBRATION				
Tool Name:	GTET - 10811258		Reference Calibration Date:	23-Jan-12 13:31:58
Engineer:	T. HYDE		Calibration Date:	25-Feb-12 17:40:09
Software Version:	WL INSITE R3.4.2 (Build 2)		Calibration Version:	1
Calibrator Source S/N: TB-185				
Calibrator API Reference:228.00 api				
Equivalent Calibrator API Reference:232.0 api				
	Field Verification	Shop	Field	Units
	Background	42.9	33.8	api
	Background + Calibrator	274.9	263.8	api
	Calibrator	232.0	230.0	api
	Shop	Field	Difference	Tolerance
	232.0	230.0	2.0	+/- 9.00
NATURAL GAMMA RAY TOOL POST CALIBRATION				

Tool Name:	GTET - 10811258	Reference Calibration Date:	25-Feb-12 17:40:09	
Engineer:	T. HYDE	Calibration Date:	25-Feb-12 21:42:03	
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1	
Calibrator Source S/N: TB-185				
Calibrator API Reference:228.00 api				
Calibrator API Reference:232.0 api				
Post Verification		Field	Post	Units
Background		33.8	28.3	api
Background + Calibrator		263.8	256.6	api
Calibrator		230.0	228.2	api
Shop	Field	Post	Difference	Tolerance
232.0	230.0	228.2	1.8	+/- 9.00

DUAL SPACED NEUTRON SHOP CALIBRATION			
Tool Name:	DSNT - 10755066	Reference Calibration Date:	06-Nov-11 14:36:25
Engineer:	C. MARLOWE	Calibration Date:	26-Jan-12 13:31:41
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Logging Source S/N: DSN-436
Tank Serial Number: 105060
Reference value assigned to Tank: 51.680
Snow Block S/N: TRK_10782954
Calibration Tank Water Temperature: 62 degF
Min. Tool Housing Outside Diameter: 3.615 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.949	0.945	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):	0.2115	0.2103	0.0012	+/- 0.0020
Calibrated Ratio:	9.75	9.70	0.041	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0560	0.02000 - 0.09000

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

DUAL SPACED NEUTRON FIELD CALIBRATION			
Tool Name:	DSNT - 10755066	Reference Calibration Date:	26-Jan-12 13:31:41
Engineer:	T. HYDE	Calibration Date:	25-Feb-12 17:45:57
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Logging Source S/N: DSN-436
Snow Block S/N: TRK_10782954

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0560	0.0582	0.0022	+/- 0.0150

PASS/FAIL SUMMARY	
Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

DUAL SPACED NEUTRON POST CALIBRATION			
Tool Name:	DSNT - 10755066	Reference Calibration Date:	25-Feb-12 17:45:57
Engineer:	T. HYDE	Calibration Date:	25-Feb-12 21:48:15
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Logging Source S/N: DSN-436
Snow Block S/N: TRK_10782954

NEUTRON POST-CHECK SUMMARY				
	Field Value	Post Value	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0582	0.0576	-0.0005	+/- 0.0150

PASS/FAIL SUMMARY	
Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

DENSITY CALIPER SHOP CALIBRATION			
Tool Name:	SDLT - I066_M85803_P45	Reference Calibration Date:	09-Nov-11 16:14:16
Engineer:	C. MARLOWE	Calibration Date:	31-Jan-12 19:54:02
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-5583.09	-5136.31	-7000.00 - -1000.00
Pad Gain	0.0003781	0.0003673	0.000200 - 0.000600
Arm Offset	-1197.87	-1566.02	-5000.00 - 3000.00
Arm Gain	0.0004938	0.0004838	0.000300 - 0.000700
Arm Power	-0.000003039	-0.000002176	-0.000010 - 0.000010

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)	1.89	2.00	0.11	+/- 0.20
Medium Ring (in)	3.69	3.75	0.06	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.54	6.50	-0.04	+/- 0.20
Medium Ring (in)	8.31	8.25	-0.06	+/- 0.20
Large Ring (in)	14.98	15.00	0.02	+/- 0.20

PASS/FAIL SUMMARY	
Calibration-Coefficients Range Check:	Passed
Ring-Measurement Check:	Passed

		PASS/FAIL SUMMARY							
		Calibration-Coefficients Range Check:					Passed		
SDLT CALIPER FIELD CALIBRATION									
Tool Name:		SDLT - I066_M85803_P45				Reference Calibration Date:		31-Jan-12 19:54:02	
Engineer:		T. HYDE				Calibration Date:		25-Feb-12 17:53:07	
Software Version:		WL INSITE R3.4.2 (Build 2)				Calibration Version:		1	
		MEASURED CALIPER VALUES							
		Measurement	Shop	Field	Change	Control Limit On New Value			
		Pad Extension	3.75	3.70	-0.05	+/- 0.10			
		Ring Diameter	8.25	8.11	-0.14	+/- 0.15			
		PASS/FAIL SUMMARY							
		Pad Extension Check:				Passed			
		Diameter Check:				Passed			
SDLT CALIPER POST CALIBRATION									
Tool Name:		SDLT - I066_M85803_P45				Reference Calibration Date:		25-Feb-12 17:53:07	
Engineer:		T. HYDE				Calibration Date:		25-Feb-12 21:55:38	
Software Version:		WL INSITE R3.4.2 (Build 2)				Calibration Version:		1	
		MEASURED CALIPER VALUES							
		Measurement	Field	Post	Change	Control Limit On New Value			
		Pad Extension	3.70	3.70	-0.00	+/- 0.10			
		Ring Diameter	8.11	7.97	-0.13	+/- 0.15			
		PASS/FAIL SUMMARY							
		Pad Extension Check:				Passed			
		Diameter Check:				Passed			
ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION									
Tool Name:		ACRt Sonde - I1256_S0784				Reference Calibration Date:		03-Oct-11 10:37:13	
Engineer:		C. HAVERKAMP				Calibration Date:		19-Jan-12 15:58:26	
Software Version:		WL INSITE R3.4.2 (Build 2)				Calibration Version:		1	
TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0114	1.05	0.95	1.0118	1.05	0.95	1.0018	1.05
A2 (50")	0.95	1.0171	1.05	0.95	1.0184	1.05	0.95	1.0116	1.05
A3 (29")	0.95	1.0027	1.05	0.95	1.0033	1.05	0.95	0.9957	1.05
A4 (17")	0.95	1.0186	1.05	0.95	1.0175	1.05	0.95	1.0133	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9958	1.05	0.95	0.9913	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9830	1.05	0.95	0.9787	1.05
TYPICAL SONDE OFFSET RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-5	-0.430	2	-6	-3.728	-2	-8	-4.849	-2
A2 (50")	-7	-2.031	-1	-6	-3.570	-2	-7	-4.342	-2
A3 (29")	-27	-16.211	-9	-9	-4.525	-3	-7	-3.257	-1

A3 (15")	27	10.211	9	0	4.028	0	0.237	1	
A4 (17")	-180	-98.266	-60	-45	-32.488	-15	-39	-26.620	-13
A5 (10")	N/A	N/A	N/A	-150	-96.757	-50	-80	-48.362	-10
A6 (6")	N/A	N/A	N/A	175	301.957	525	90	159.522	270

TRANSMITTER CURRENT GAIN			
Signal	Lower	R	Upper
12K	0.6	0.8379	1.3
36K	1.0	1.1691	2.0
72K	1.0	1.4954	2.0

R-MUD VERIFICATION			
Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	1.002	1.05

SPECTRAL DENSITY SHOP CALIBRATION			
Tool Name:	SDLT Pad - I145_M85803_P45	Reference Calibration Date:	17-Dec-11 07:41:10
Engineer:	C. HAVERKAMP	Calibration Date:	23-Jan-12 14:46:25
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Logging Source S/N: 5073GW		
Aluminum Block S/N: 63061	Density: 2.591g/cc	Pe: 3.170
Magnesium Block S/N: 63393	Density: 1.690g/cc	Pe: 2.594

DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	0.9729	0.9638	0.90 - 1.10
Near Dens Gain	0.9692	0.9694	0.90 - 1.10
Near Peak Gain	0.9717	0.9714	0.90 - 1.10
Near Lith Gain	0.9336	0.9507	0.90 - 1.10
Far Bar Gain	0.9864	0.9884	0.90 - 1.10
Far Dens Gain	0.9773	0.9795	0.90 - 1.10
Far Peak Gain	0.9717	0.9754	0.90 - 1.10
Far Lith Gain	0.9498	0.9495	0.90 - 1.10
Near Bar Offset	0.4649	0.5546	NONE
Near Dens Offset	0.4626	0.4701	NONE
Near Peak Offset	0.4060	0.4173	NONE
Near Lith Offset	0.6865	0.5566	NONE
Far Bar Offset	0.2464	0.2316	NONE
Far Dens Offset	0.3033	0.2881	NONE
Far Peak Offset	0.3146	0.2860	NONE
Far Lith Offset	0.4166	0.4258	NONE
Near Bar Background	1007.93	1005.32	700 - 1450
Near Dens Background	332.14	333.52	230 - 480
Near Peak Background	145.51	145.48	100 - 210
Near Lith Background	178.15	177.09	125 - 260
Far Bar Background	518.29	514.45	450 - 900
Far Dens Background	199.77	198.02	175 - 345
Far Peak Background	78.22	77.75	70 - 140
Far Lith Background	82.71	82.34	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.686	1.690	0.004	+/- 0.015

Pe	2.613	2.547	-0.066	+/- 0.150
ALUMINUM				
Density (g/cc)	2.581	2.591	0.010	+/- 0.01500
Pe	3.131	3.120	-0.011	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0007	+/- 0.0110	-0.0011	+/- 0.0140
Magnesium Block	-0.0009	+/- 0.0110	-0.0019	+/- 0.0140
Aluminum Block	-0.0010	+/- 0.0110	-0.0006	+/- 0.0140
Resolution	9.81	6.00 - 11.50	9.22	6.00 - 11.50
Internal Verifier(B+D+P+L)	1661	1200 - 2700	873	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

SPECTRAL DENSITY FIELD CHECK			
Tool Name:	SDLT Pad - I145_M85803_P45	Reference Calibration Date:	23-Jan-12 14:46:25
Engineer:	T. HYDE	Calibration Date:	25-Feb-12 17:38:21
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Pad Temperature: 69.0 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1661.419	1654.123	-7.296	16.372
Far (B+D+P+L) cps	872.552	877.822	5.270	16.140
Near Resolution	9.81	9.88	0.070	0.50
Far Resolution	9.22	9.73	0.510	1.00

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

SPECTRAL DENSITY POST CHECK			
Tool Name:	SDLT Pad - I145_M85803_P45	Reference Calibration Date:	25-Feb-12 17:38:21
Engineer:	T. HYDE	Calibration Date:	25-Feb-12 21:39:39
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Pad Temperature: 57.6 degF

DENSITY POST CALIBRATION SUMMARY				
Measurement	Field	Post	Change	Control Limit +/-
Near (B+D+P+L) cps	1654.123	1658.350	4.227	16.372
Far (B+D+P+L) cps	877.822	873.813	-4.009	16.140

Near Resolution	9.88	9.84	-0.040	0.50
Far Resolution	9.73	9.54	-0.190	1.00

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

MICRO LOG SHOP CALIBRATION			
Tool Name:	Microlog Pad - I066_M85803_P45	Reference Calibration Date:	02-Sep-11 06:03:18
Engineer:	C. MARLOWE	Calibration Date:	31-Jan-12 20:02:12
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

CALIBRATION COEFFICIENT SUMMARY					
Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	-0.07	-0.09	0.00	0.00	ohmm
Calibration Point #1	0.02	0.00	-0.00	0.00	ohmm
Calibration Point #2	19.97	20.00	19.98	20.00	ohmm
Internal Reference	19.90	19.93	19.97	19.99	ohmm

Measurement	Micro Log Normal Tool Value	Micro Log Lateral Tool Value	Units
Tool Zero	-0.53	3.16	V
Calibration Point #1	23.08	1.59	V
Calibration Point #2	5304.32	6881.96	V
Internal Reference	5284.73	6879.28	V

MICRO LOG FIELD CHECK			
Tool Name:	Microlog Pad - I066_M85803_P45	Reference Calibration Date:	31-Jan-12 20:02:12
Engineer:	T. HYDE	Calibration Date:	25-Feb-12 17:39:36
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Measurement	Micro Log Normal		Micro Log Lateral		Units
	Shop	Field	Shop	Field	
Tool Zero	-0.09	-0.08	0.00	0.00	ohmm
Internal Reference	19.93	19.88	19.99	19.94	ohmm

Summary				
Signal	Shop	Field	Difference	Tolerance
Microlog Normal	19.93	19.88	0.05	+/- 0.80
Microlog Lateral	19.99	19.94	0.05	+/- 0.80

MICRO LOG POST CHECK			
Tool Name:	Microlog Pad - I066_M85803_P45	Reference Calibration Date:	25-Feb-12 17:39:36
Engineer:	T. HYDE	Calibration Date:	25-Feb-12 21:38:55
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Measurement	Micro Log Normal		Micro Log Lateral		Units
	Field	Post	Field	Post	
Tool Zero	-0.08	-0.10	0.00	0.02	ohmm
Internal Reference	19.88	19.89	19.94	19.95	ohmm

Summary				
Signal	Field	Post	Difference	Tolerance

Signal	Field	Post	Difference	Tolerance
Microlog Normal	19.88	19.89	0.01	+/- 0.80
Microlog Lateral	19.94	19.95	0.01	+/- 0.80

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-10811258						
Gamma Ray Calibrator	232.0	230.0	228.2	1.8	+/- 9.00	api
DSNT-10755066						
Snow-Block Porosity	0.0560	0.0582	0.0576	0.0006	+/- 0.0150	decP
SDLT-I066_M85803_P45						
Pad Extension	3.75	3.70	3.70	0.00	+/-0.10	in
Ring Diameter	8.25	8.11	7.97	0.140	+/-0.15	in
ACRt Sonde-I1256_S0784						
Mud Cell	1.002	-----	-----	0.000	-----	ohm-m
SDLT Pad-I145_M85803_P45						
Near(B+D+P+L)	1661.419	1654.123	1658.350	-4.227	+/-16.372	cps
Far(B+D+P+L)	872.552	877.822	873.813	4.009	+/-16.140	cps
Microlog Pad-I066_M85803_P45						
MicroLog Normal	19.93	19.88	19.89	-0.01	+/-0.80	ohmm
MicroLog Lateral	19.99	19.94	19.95	-0.01	+/-0.80	ohmm

Data: GARDEN_CITY_V_1I0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHUIDLE	Date: 25-Feb-12 21:57:31
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HALLIBURTON						
PARAMETERS REPORT						

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.500	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	0.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	0.710	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	5.500	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	4945.00	ft
	SHARED	BHT	Bottom Hole Temperature	96.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	Temperature Master Tool	NONE	
	SHARED	BHSM	Borehole Size Master Tool	NONE	
	GTET	GROK	Process Gamma Ray?	Yes	
	GTET	GRSO	Gamma Tool Standoff	0.000	in
	GTET	GEOK	Process Gamma Ray EVR?	No	
	GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
	DSNT	DNOK	Process DSN?	Yes	

DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DSNO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
DSNT	DNTP	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
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
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
BSAT	MBOK	Compute BCAS Results?	Yes	
BSAT	FLLO	Frequency Filter Low Pass Value?	5000	Hz
BSAT	FLHI	Frequency Filter High Pass Value?	27000	Hz
BSAT	DTFL	Delta -T Fluid	189.00	uspf
BSAT	DTMT	Delta -T Matrix Type	User define	
BSAT	DTMA	Delta -T Matrix	47.60	uspf
BSAT	DTSH	Delta -T Shale	100.00	uspf
BSAT	SPEQ	Acoustic Porosity Equation	Wylie	
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	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt Sonde	THQY	Threshold Quality	0.50	
BOTTOM				
Data: GARDEN_CITY_V_1I0001 SP-GTET-DSN-SDL-BSAT-ACRT-CHUIDLE			Date: 25-Feb-12 21:17:15	

HALLIBURTON				
INPUTS, DELAYS AND FILTERS TABLE				
Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
SP Sub				
PLTC	Plot Control Mask	66.58	NO	
SP	Spontaneous Potential	66.58	BLK	1.250
SPR	Raw Spontaneous Potential	66.58	NO	
SPO	Spontaneous Potential Offset	66.58	NO	
GTET				
TPUL	Tension Pull	58.56	NO	
GR	Natural Gamma Ray API	58.56	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	58.56	NO	

EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	58.56	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	48.32	NO	
RNDS	Near Detector Telemetry Counts	48.42	BLK	1.417
RFDS	Far Detector Telemetry Counts	49.17	TRI	0.583
DNTT	DSN Tool Temperature	48.42	NO	
DSNS	DSN Tool Status	48.32	NO	
ERND	Near Detector Telemetry Counts EVR	48.42	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	49.17	BLK	0.000
ENTM	DSN Tool Temperature EVR	48.42	NO	
SDLT				
TPUL	Tension Pull	38.42	NO	
PCAL	Pad Caliper	38.42	TRI	0.250
ACAL	Arm Caliper	38.42	TRI	0.250
BSAT				
TPUL	Tension Pull	27.09	NO	
STAT	Status	27.09	NO	
DLYT	Delay Time	27.09	NO	
SI	Sample Interval	27.09	NO	
TXRX	Raw Telemetry 10 Receivers	27.09	NO	
FRMC	Tool Frame Count	27.09	NO	
ACRt Sonde				
TPUL	Tension Pull	2.97	NO	
F1R1	ACRT 12KHz - 80in R value	9.22	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	9.22	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.72	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.72	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	5.22	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	5.22	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	4.22	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	4.22	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.72	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.72	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.47	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.47	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	9.22	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	9.22	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.72	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.72	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	5.22	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	5.22	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	4.22	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	4.22	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.72	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.72	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.47	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.47	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	9.22	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	9.22	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.72	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.72	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	5.22	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	5.22	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	4.22	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	4.22	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.72	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.72	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.47	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.47	BLK	0.000
F4R1	ACRT 144KHz - 80in R value	9.22	BLK	0.000
F4X1	ACRT 144KHz - 80in X value	9.22	BLK	0.000
F4R2	ACRT 144KHz - 50in R value	6.72	BLK	0.000
F4X2	ACRT 144KHz - 50in X value	6.72	BLK	0.000
F4R3	ACRT 144KHz - 29in R value	5.22	BLK	0.000
F4X3	ACRT 144KHz - 29in X value	5.22	BLK	0.000
F4R4	ACRT 144KHz - 17in R value	4.22	BLK	0.000
F4X4	ACRT 144KHz - 17in X value	4.22	BLK	0.000
F4R5	ACRT 144KHz - 10in R value	3.72	BLK	0.000
F4X5	ACRT 144KHz - 10in X value	3.72	BLK	0.000
F4R6	ACRT 144KHz - 6in R value	3.47	BLK	0.000
F4X6	ACRT 144KHz - 6in X value	3.47	BLK	0.000
F5R1	ACRT 288KHz - 80in R value	9.22	BLK	0.000
F5X1	ACRT 288KHz - 80in X value	9.22	BLK	0.000
F5R2	ACRT 288KHz - 50in R value	6.72	BLK	0.000
F5X2	ACRT 288KHz - 50in X value	6.72	BLK	0.000
F5R3	ACRT 288KHz - 29in R value	5.22	BLK	0.000
F5X3	ACRT 288KHz - 29in X value	5.22	BLK	0.000
F5R4	ACRT 288KHz - 17in R value	4.22	BLK	0.000
F5X4	ACRT 288KHz - 17in X value	4.22	BLK	0.000
F5R5	ACRT 288KHz - 10in R value	3.72	BLK	0.000
F5X5	ACRT 288KHz - 10in X value	3.72	BLK	0.000
F5R6	ACRT 288KHz - 6in R value	3.47	BLK	0.000
F5X6	ACRT 288KHz - 6in X value	3.47	BLK	0.000
F6R1	ACRT 576KHz - 80in R value	9.22	BLK	0.000
F6X1	ACRT 576KHz - 80in X value	9.22	BLK	0.000
F6R2	ACRT 576KHz - 50in R value	6.72	BLK	0.000
F6X2	ACRT 576KHz - 50in X value	6.72	BLK	0.000
F6R3	ACRT 576KHz - 29in R value	5.22	BLK	0.000
F6X3	ACRT 576KHz - 29in X value	5.22	BLK	0.000
F6R4	ACRT 576KHz - 17in R value	4.22	BLK	0.000
F6X4	ACRT 576KHz - 17in X value	4.22	BLK	0.000
F6R5	ACRT 576KHz - 10in R value	3.72	BLK	0.000
F6X5	ACRT 576KHz - 10in X value	3.72	BLK	0.000
F6R6	ACRT 576KHz - 6in R value	3.47	BLK	0.000
F6X6	ACRT 576KHz - 6in X value	3.47	BLK	0.000
F7R1	ACRT 1152KHz - 80in R value	9.22	BLK	0.000
F7X1	ACRT 1152KHz - 80in X value	9.22	BLK	0.000
F7R2	ACRT 1152KHz - 50in R value	6.72	BLK	0.000
F7X2	ACRT 1152KHz - 50in X value	6.72	BLK	0.000
F7R3	ACRT 1152KHz - 29in R value	5.22	BLK	0.000
F7X3	ACRT 1152KHz - 29in X value	5.22	BLK	0.000
F7R4	ACRT 1152KHz - 17in R value	4.22	BLK	0.000
F7X4	ACRT 1152KHz - 17in X value	4.22	BLK	0.000
F7R5	ACRT 1152KHz - 10in R value	3.72	BLK	0.000
F7X5	ACRT 1152KHz - 10in X value	3.72	BLK	0.000
F7R6	ACRT 1152KHz - 6in R value	3.47	BLK	0.000
F7X6	ACRT 1152KHz - 6in X value	3.47	BLK	0.000
F8R1	ACRT 2304KHz - 80in R value	9.22	BLK	0.000
F8X1	ACRT 2304KHz - 80in X value	9.22	BLK	0.000
F8R2	ACRT 2304KHz - 50in R value	6.72	BLK	0.000
F8X2	ACRT 2304KHz - 50in X value	6.72	BLK	0.000
F8R3	ACRT 2304KHz - 29in R value	5.22	BLK	0.000
F8X3	ACRT 2304KHz - 29in X value	5.22	BLK	0.000
F8R4	ACRT 2304KHz - 17in R value	4.22	BLK	0.000
F8X4	ACRT 2304KHz - 17in X value	4.22	BLK	0.000
F8R5	ACRT 2304KHz - 10in R value	3.72	BLK	0.000
F8X5	ACRT 2304KHz - 10in X value	3.72	BLK	0.000
F8R6	ACRT 2304KHz - 6in R value	3.47	BLK	0.000
F8X6	ACRT 2304KHz - 6in X value	3.47	BLK	0.000
F9R1	ACRT 4608KHz - 80in R value	9.22	BLK	0.000
F9X1	ACRT 4608KHz - 80in X value	9.22	BLK	0.000
F9R2	ACRT 4608KHz - 50in R value	6.72	BLK	0.000
F9X2	ACRT 4608KHz - 50in X value	6.72	BLK	0.000
F9R3	ACRT 4608KHz - 29in R value	5.22	BLK	0.000
F9X3	ACRT 4608KHz - 29in X value	5.22	BLK	0.000
F9R4	ACRT 4608KHz - 17in R value	4.22	BLK	0.000
F9X4	ACRT 4608KHz - 17in X value	4.22	BLK	0.000
F9R5	ACRT 4608KHz - 10in R value	3.72	BLK	0.000
F9X5	ACRT 4608KHz - 10in X value	3.72	BLK	0.000
F9R6	ACRT 4608KHz - 6in R value	3.47	BLK	0.000
F9X6	ACRT 4608KHz - 6in X value	3.47	BLK	0.000
F10R1	ACRT 9216KHz - 80in R value	9.22	BLK	0.000
F10X1	ACRT 9216KHz - 80in X value	9.22	BLK	0.000
F10R2	ACRT 9216KHz - 50in R value	6.72	BLK	0.000
F10X2	ACRT 9216KHz - 50in X value	6.72	BLK	0.000
F10R3	ACRT 9216KHz - 29in R value	5.22	BLK	0.000
F10X3	ACRT 9216KHz - 29in X value	5.22	BLK	0.000
F10R4	ACRT 9216KHz - 17in R value	4.22	BLK	0.000
F10X4	ACRT 9216KHz - 17in X value	4.22	BLK	0.000
F10R5	ACRT 9216KHz - 10in R value	3.72	BLK	0.000
F10X5	ACRT 9216KHz - 10in X value	3.72	BLK	0.000
F10R6	ACRT 9216KHz - 6in R value	3.47	BLK	0.000
F10X6	ACRT 9216KHz - 6in X value	3.47	BLK	0.000
F11R1	ACRT 18432KHz - 80in R value	9.22	BLK	0.000
F11X1	ACRT 18432KHz - 80in X value	9.22	BLK	0.000
F11R2	ACRT 18432KHz - 50in R value	6.72	BLK	0.000
F11X2	ACRT 18432KHz - 50in X value	6.72	BLK	0.000
F11R3	ACRT 18432KHz - 29in R value	5.22	BLK	0.000
F11X3	ACRT 18432KHz - 29in X value	5.22	BLK	0.000
F11R4	ACRT 18432KHz - 17in R value	4.22	BLK	0.000
F11X4	ACRT 18432KHz - 17in X value	4.22	BLK	0.000
F11R5	ACRT 18432KHz - 10in R value	3.72	BLK	0.000
F11X5	ACRT 18432KHz - 10in X value	3.72	BLK	0.000
F11R6	ACRT 18432KHz - 6in R value	3.47	BLK	0.000
F11X6	ACRT 18432KHz - 6in X value	3.47	BLK	0.000
F12R1	ACRT 36864KHz - 80in R value	9.22	BLK	0.000
F12X1	ACRT 36864KHz - 80in X value	9.22	BLK	0.000
F12R2	ACRT 36864KHz - 50in R value	6.72	BLK	0.000
F12X2	ACRT 36864KHz - 50in X value	6.72	BLK	0.000
F12R3	ACRT 36864KHz - 29in R value	5.22	BLK	0.000
F12X3	ACRT 36864KHz - 29in X value	5.22	BLK	0.000
F12R4	ACRT 36864KHz - 17in R value	4.22	BLK	0.000
F12X4	ACRT 36			

F3X2	ACRT 72KHz - 50in X value	6.72	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	5.22	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	5.22	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	4.22	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	4.22	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.72	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.72	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.47	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.47	BLK	0.000
RMUD	Mud Resistivity	12.76	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	2.97	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.97	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.97	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.97	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.97	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.97	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.97	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.97	BLK	0.000
ITMP	Instrument Temperature	2.97	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.97	NO	
TIDV	Instrument Temperature Derivative	2.97	NO	
TUDV	Upper Temperature Derivative	2.97	NO	
TLDV	Lower Temperature Derivative	2.97	NO	
TRBD	Receiver Board Temperature	2.97	NO	
SDLT Pad				
TPUL	Tension Pull	38.41	NO	
NAB	Near Above	38.24	BLK	0.920
NHI	Near Cesium High	38.24	BLK	0.920
NLO	Near Cesium Low	38.24	BLK	0.920
NVA	Near Valley	38.24	BLK	0.920
NBA	Near Barite	38.24	BLK	0.920
NDE	Near Density	38.24	BLK	0.920
NPK	Near Peak	38.24	BLK	0.920
NLI	Near Lithology	38.24	BLK	0.920
NBAU	Near Barite Unfiltered	38.24	BLK	0.250
NLIU	Near Lithology Unfiltered	38.24	BLK	0.250
FAB	Far Above	38.58	BLK	0.250
FHI	Far Cesium High	38.58	BLK	0.250
FLO	Far Cesium Low	38.58	BLK	0.250
FVA	Far Valley	38.58	BLK	0.250
FBA	Far Barite	38.58	BLK	0.250
FDE	Far Density	38.58	BLK	0.250
FPK	Far Peak	38.58	BLK	0.250
FLI	Far Lithology	38.58	BLK	0.250
PTMP	Pad Temperature	38.42	BLK	0.920
NHV	Near Detector High Voltage	37.81	NO	
FHV	Far Detector High Voltage	37.81	NO	
ITMP	Instrument Temperature	37.81	NO	
DDHV	Detector High Voltage	37.81	NO	
Microlog Pad				
TPUL	Tension Pull	38.60	NO	
MINV	Microlog Lateral	38.60	BLK	0.750
MNOR	Microlog Normal	38.60	BLK	0.750
Data: GARDEN_CITY_V_110001 SP-GTET-DSN-SDL-BSAT-ACRT-CHUIDLE			Date: 25-Feb-12 20:05:50	

COMPANY	OXY USA INC		
WELL	GARDEN CITY V-1		
FIELD	GARDEN CITY		
COUNTY	FINNEY	STATE	KANSAS
HALLIBURTON		BORE HOLE COMPENSATED SONIC ARRAY LOG	