

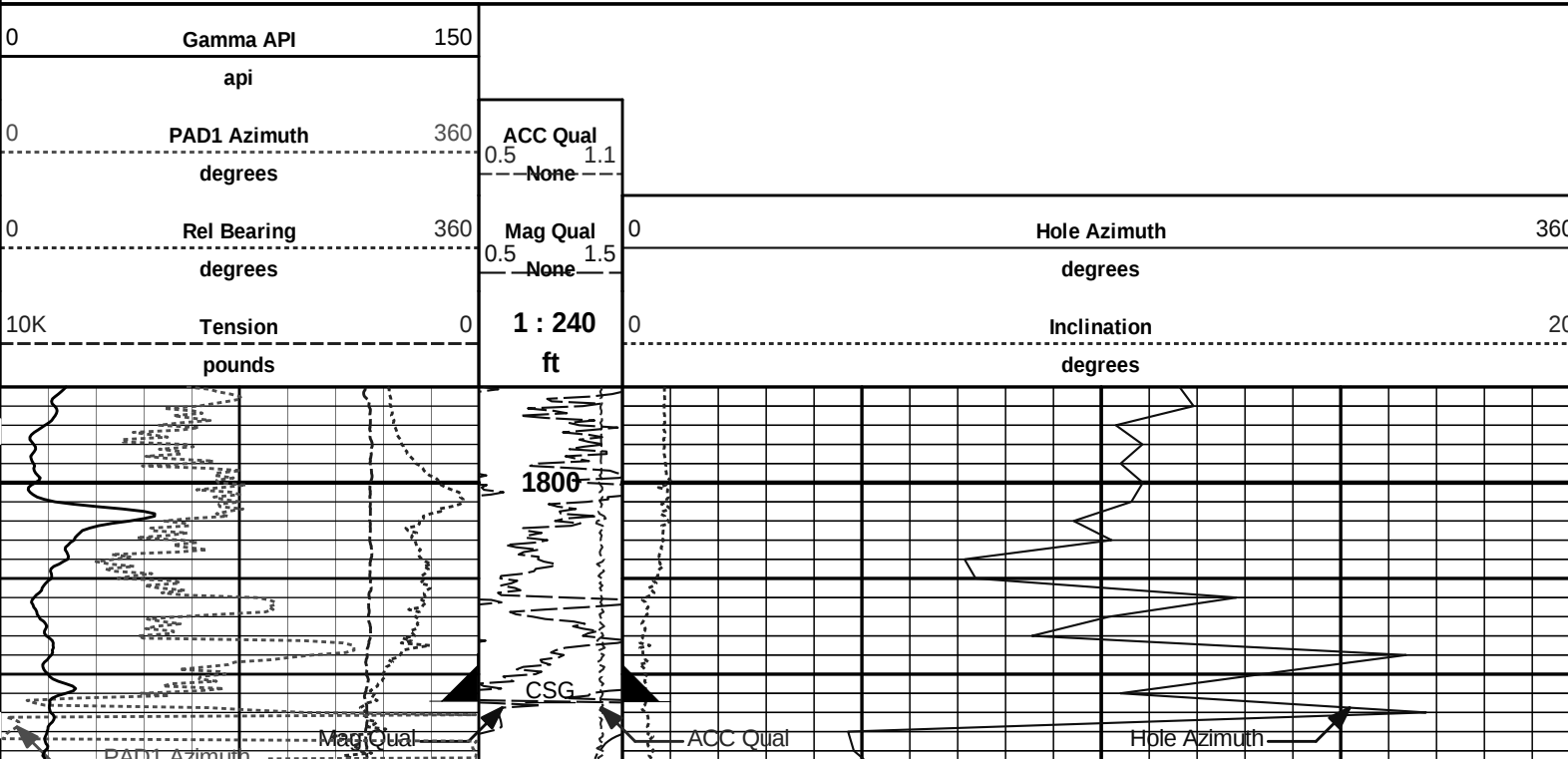
DIRECTIONAL LOG

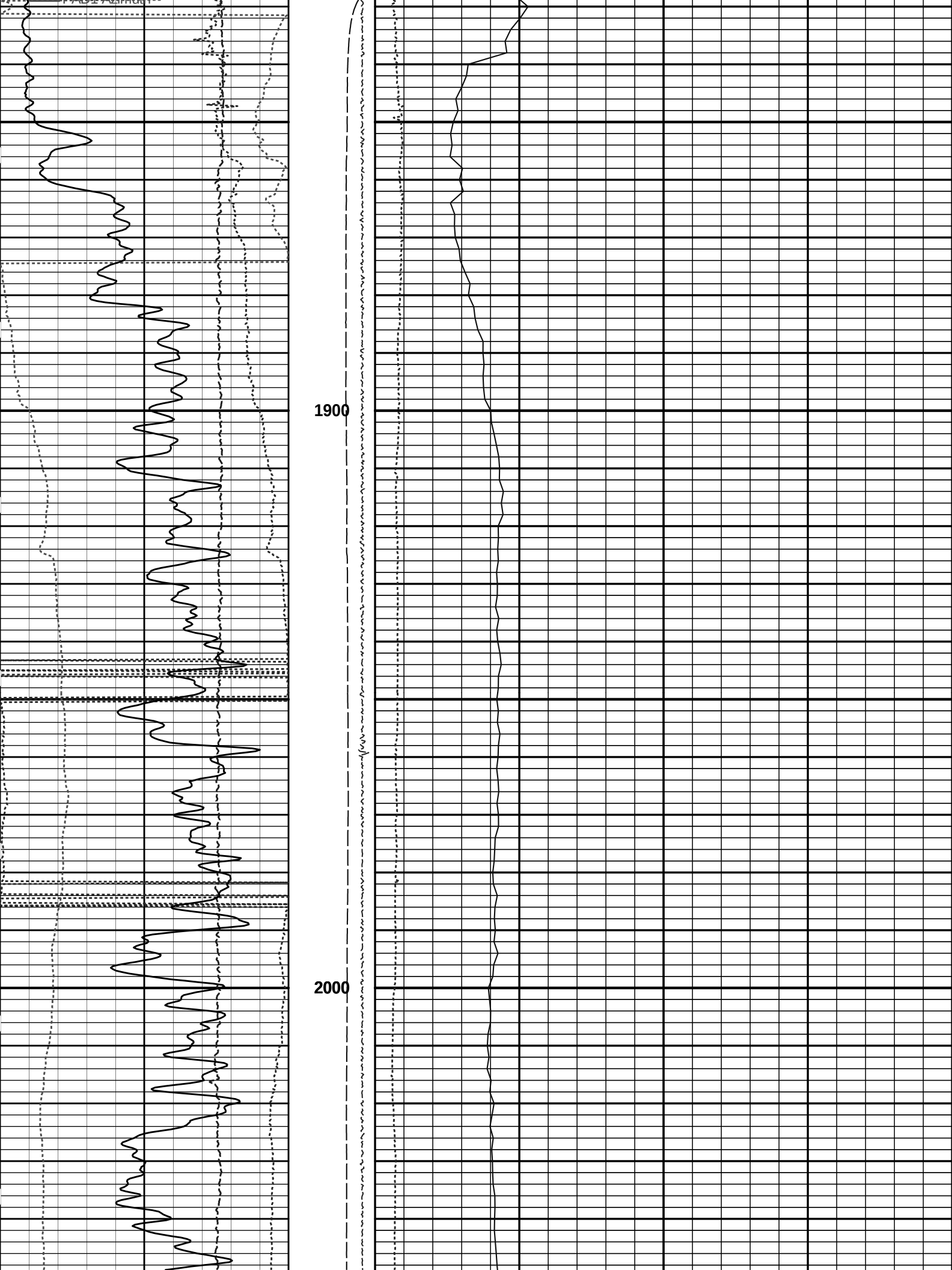
Service Ticket No.: 9466919				API Serial No.: 15-081-21969				PGM Version: WL INSITE R3.4.2 (Build 2)			
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE						RESISTIVITY SCALE CHANGES					
Date	Sample No.					Type Log	Depth	Scale Up Hole		Scale Down Hole	
Depth-Driller											
Type Fluid in Hole											
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.		@		@							
Rmc @ Meas. Temp.		@		@							
Source Rmf	Rmc										
Rm @ BHT		@		@							
Rmf @ BHT		@		@							
Rmc @ BHT		@		@							
EQUIPMENT DATA											
GAMMA			ACOUSTIC			DENSITY			NEUTRON		
Run No.	ONE		Run No.			Run No.			Run No.		
Serial No.	11021138		Serial No.			Serial No.			Serial No.		
Model No.	GTET		Model No.			Model No.			Model No.		
Diameter	3.625"		No. of Cent.			Diameter			Diameter		
Detector Model No.	T-102		Spacing			Log Type			Log Type		
Type	SCINT					Source Type			Source Type		
Length	8"		LSA [Y/N]			Serial No.			Serial No.		
Distance to Source	10'		FWDA [Y/N]			Strength			Strength		
LOGGING DATA											

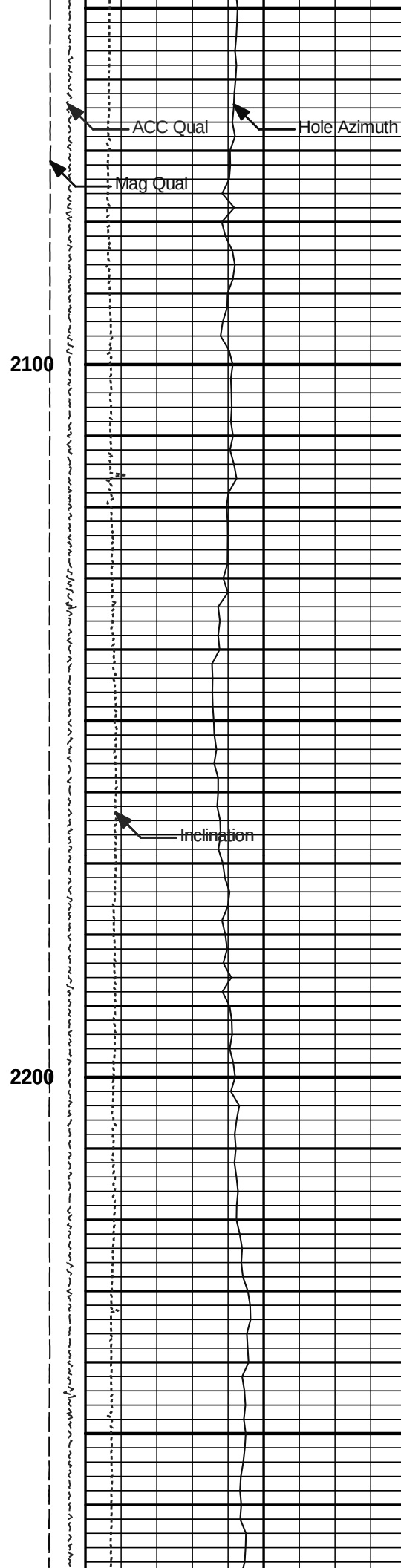
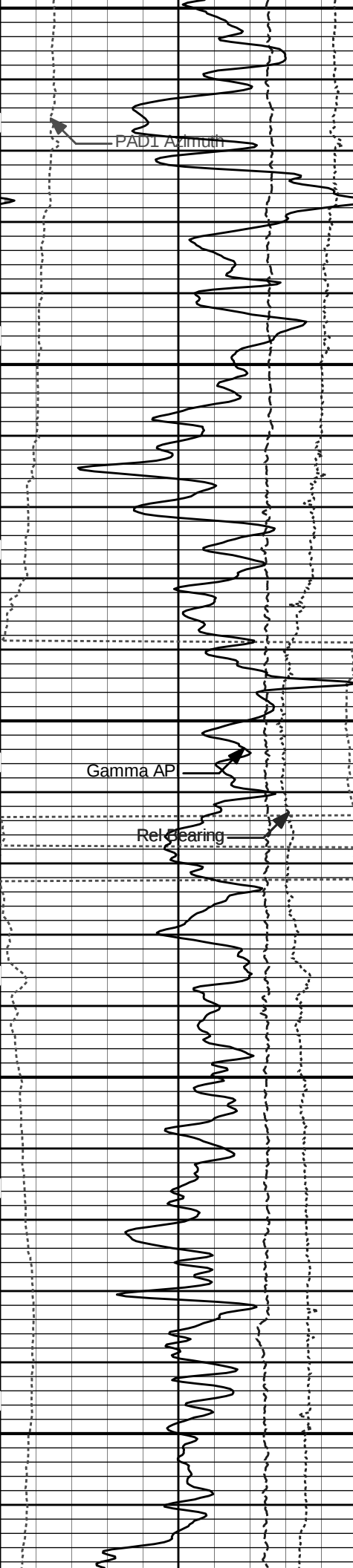
GENERAL			GAMMA		ACOUSTIC		DENSITY		NEUTRON					
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	TD	CSG	REC	0	150									
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: SP-GTET-IDT-DSNT-SDLT-BSAT-ACRT RAN IN COMBINATION.														
ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING.														
CHLORIDES REPORTED AT 1500 MG/L.														
LCM REPORTED AT 6 LB/BBL.														
POST TOOL SURVEYS NOT PERFORMED PER CUSTOMER REQUEST.														
YOUR CREW: M. DUNAWAY, 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.														
HALLIBURTON														

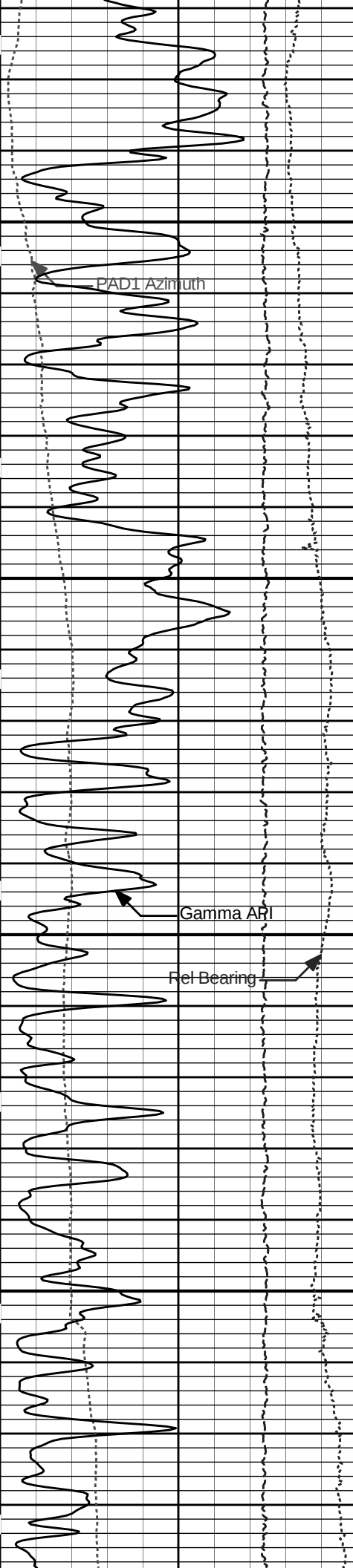
HALLIBURTON	Plot Time: 06-May-12 08:51:07 Plot Range: 1790 ft to 5583.33 ft Data: BLASDEL_A_3\Well Based\IR1_CASING\ Plot File: \\LOCAL-1\BLASDEL_A_3\0001 GTET-IDT-DSNT-SDLT-BSAT-ACRT\IDT\IDT_5inch_LIB
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5 INCH MAIN LOG









2300

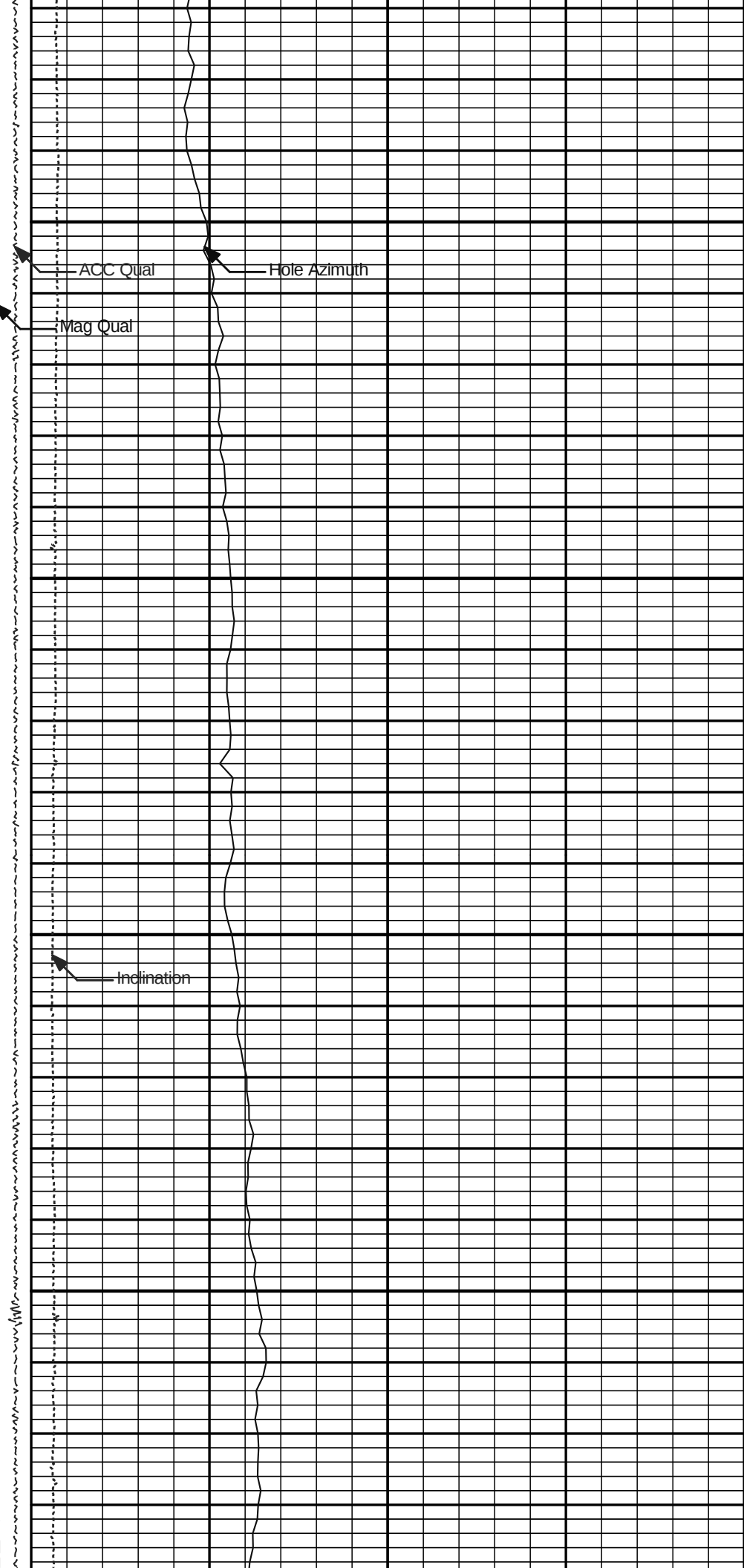
ACC Qual

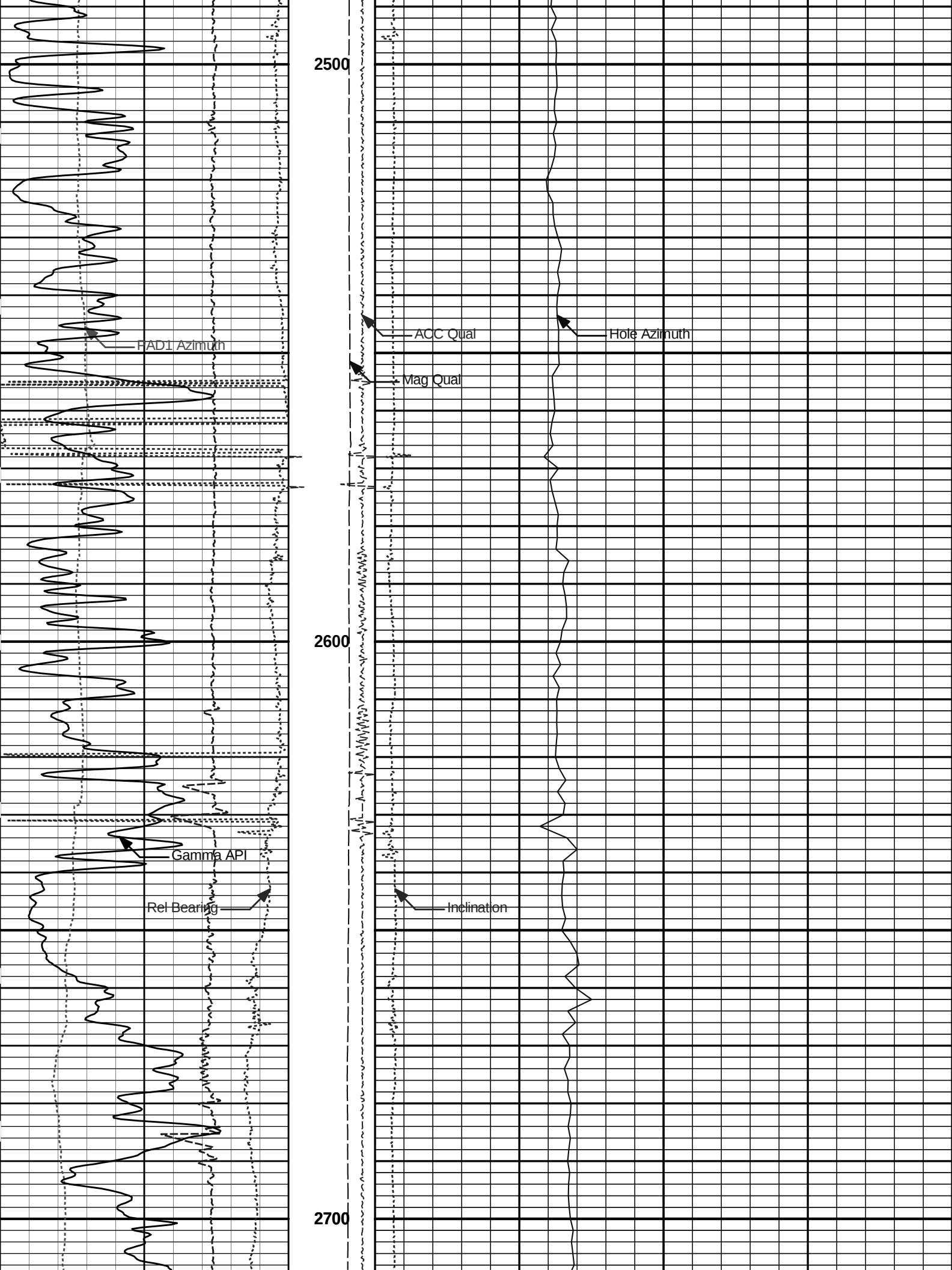
Hole Azimuth

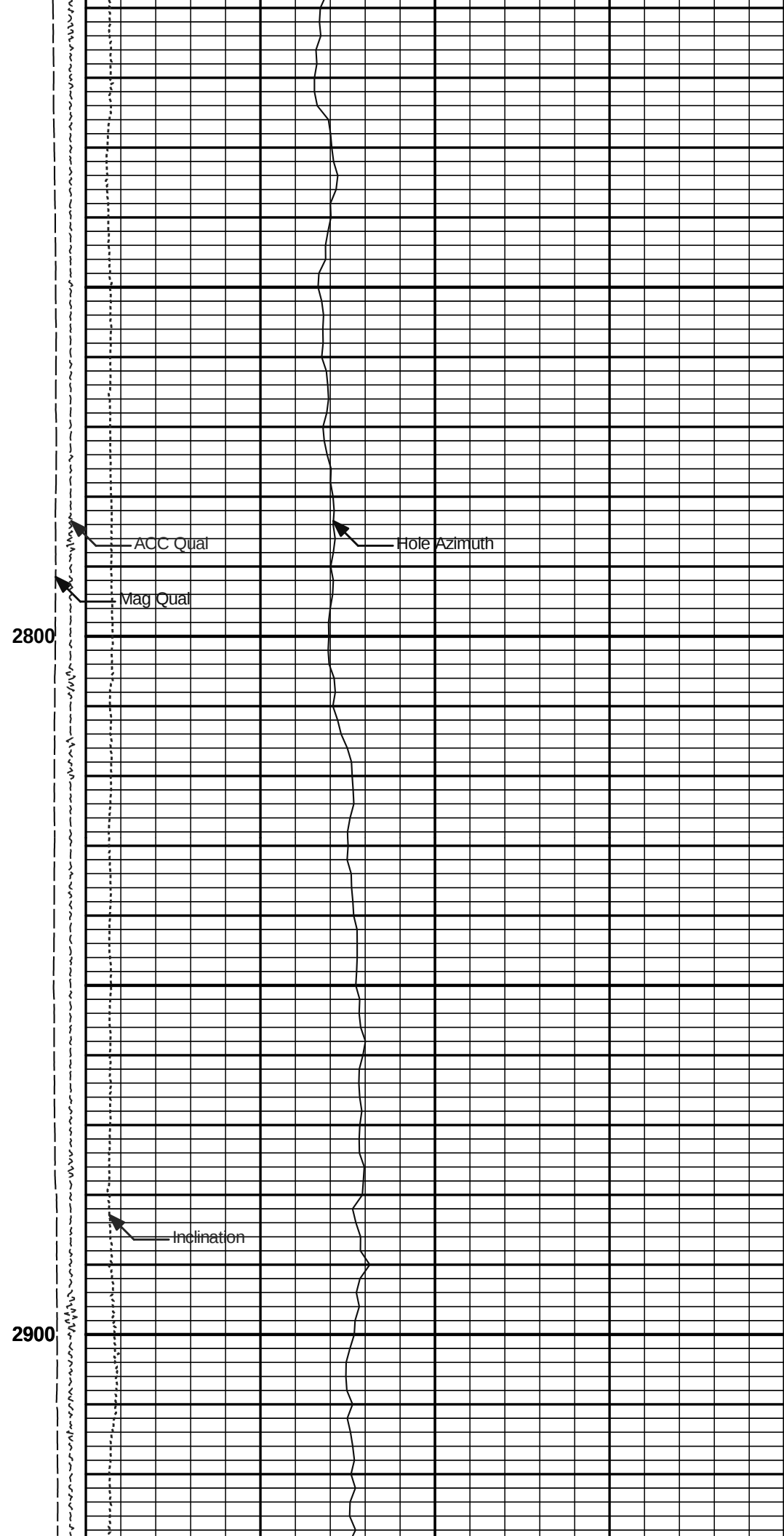
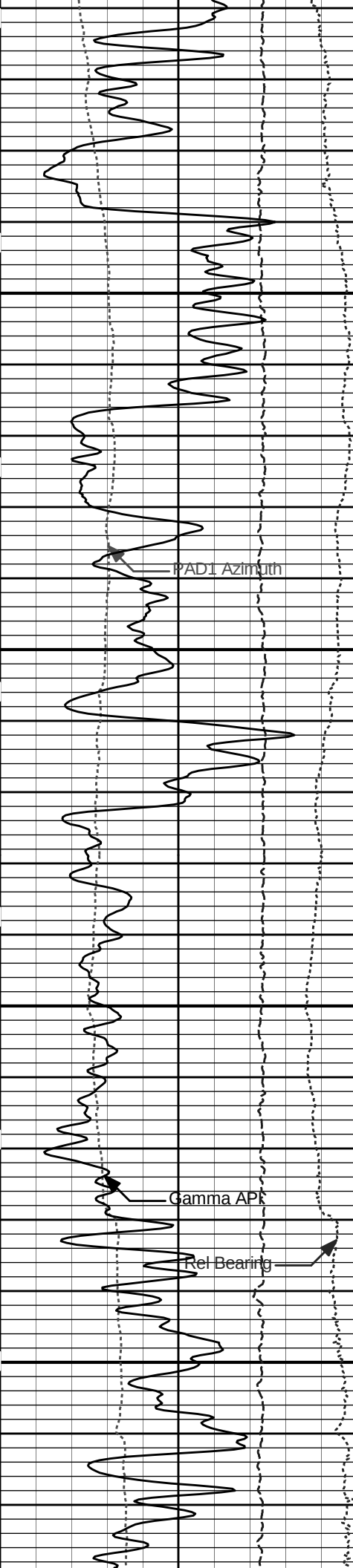
Mag Qual

2400

Inclination



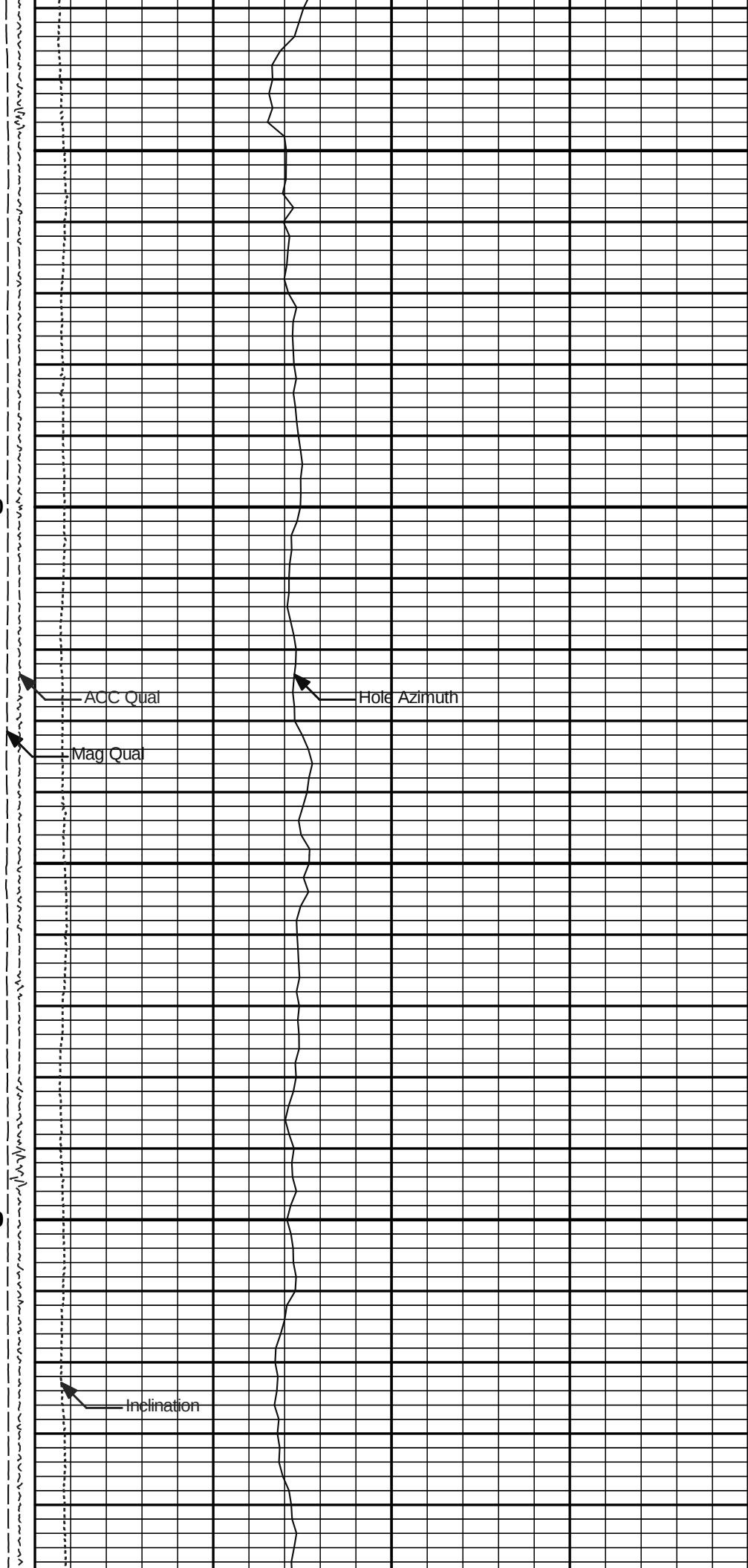


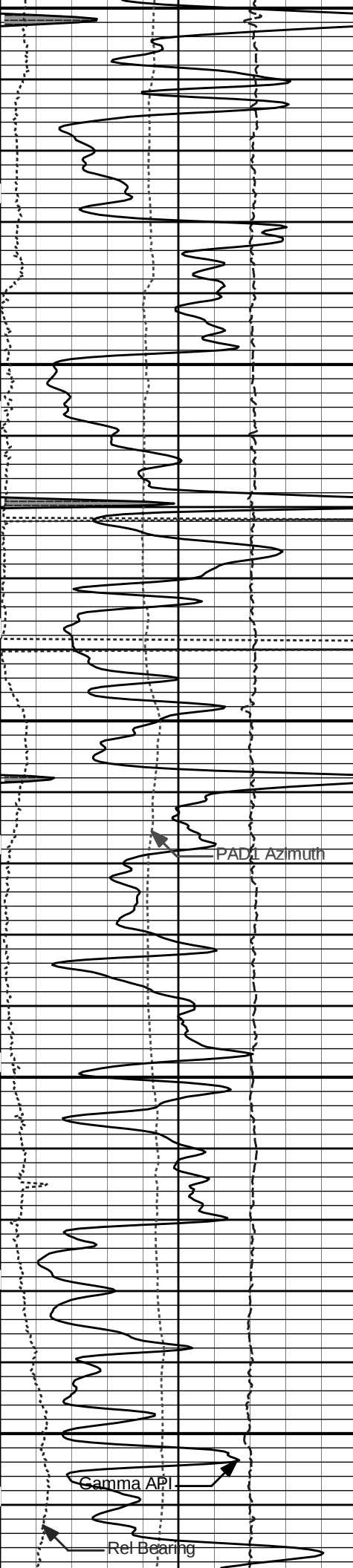




3000

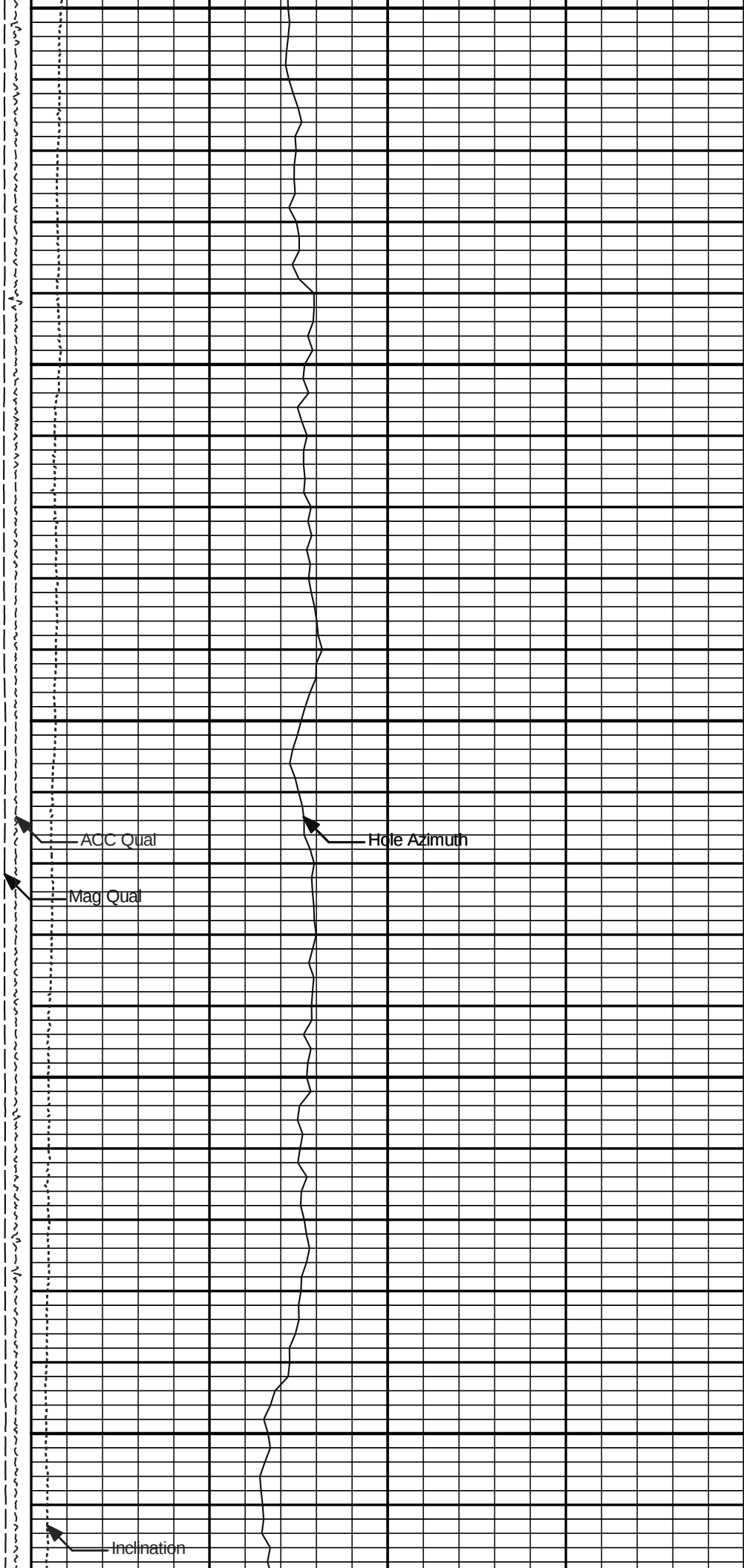
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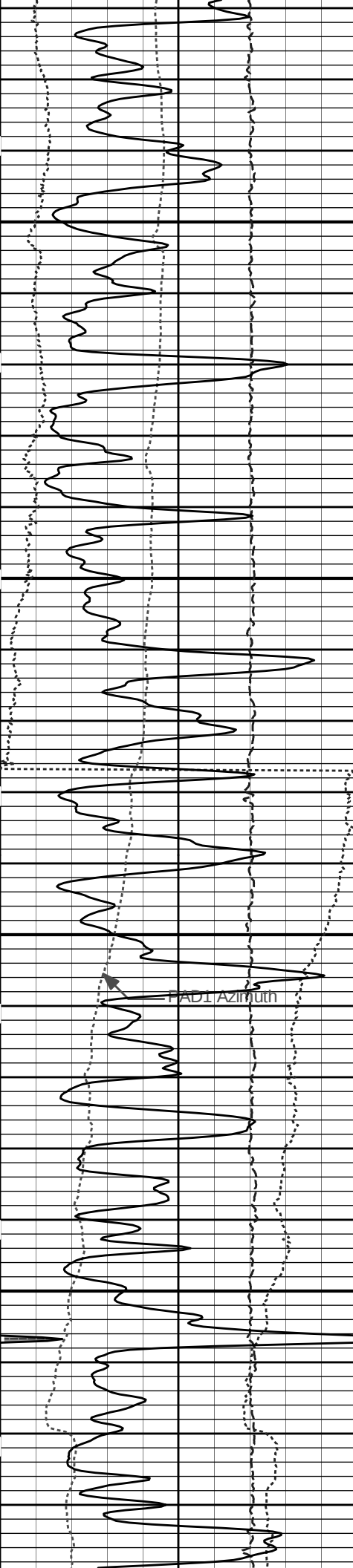




3200

3300





3400

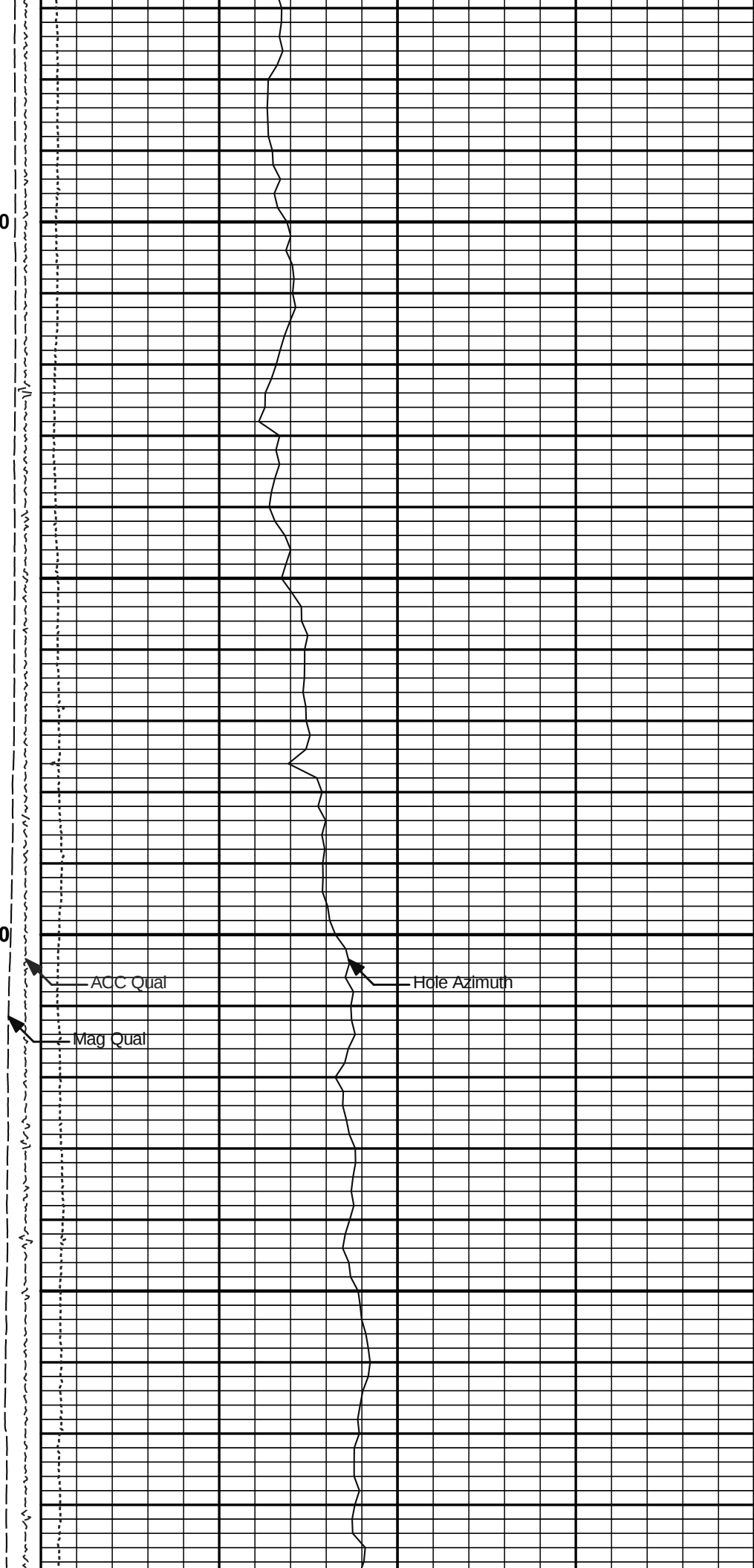
3500

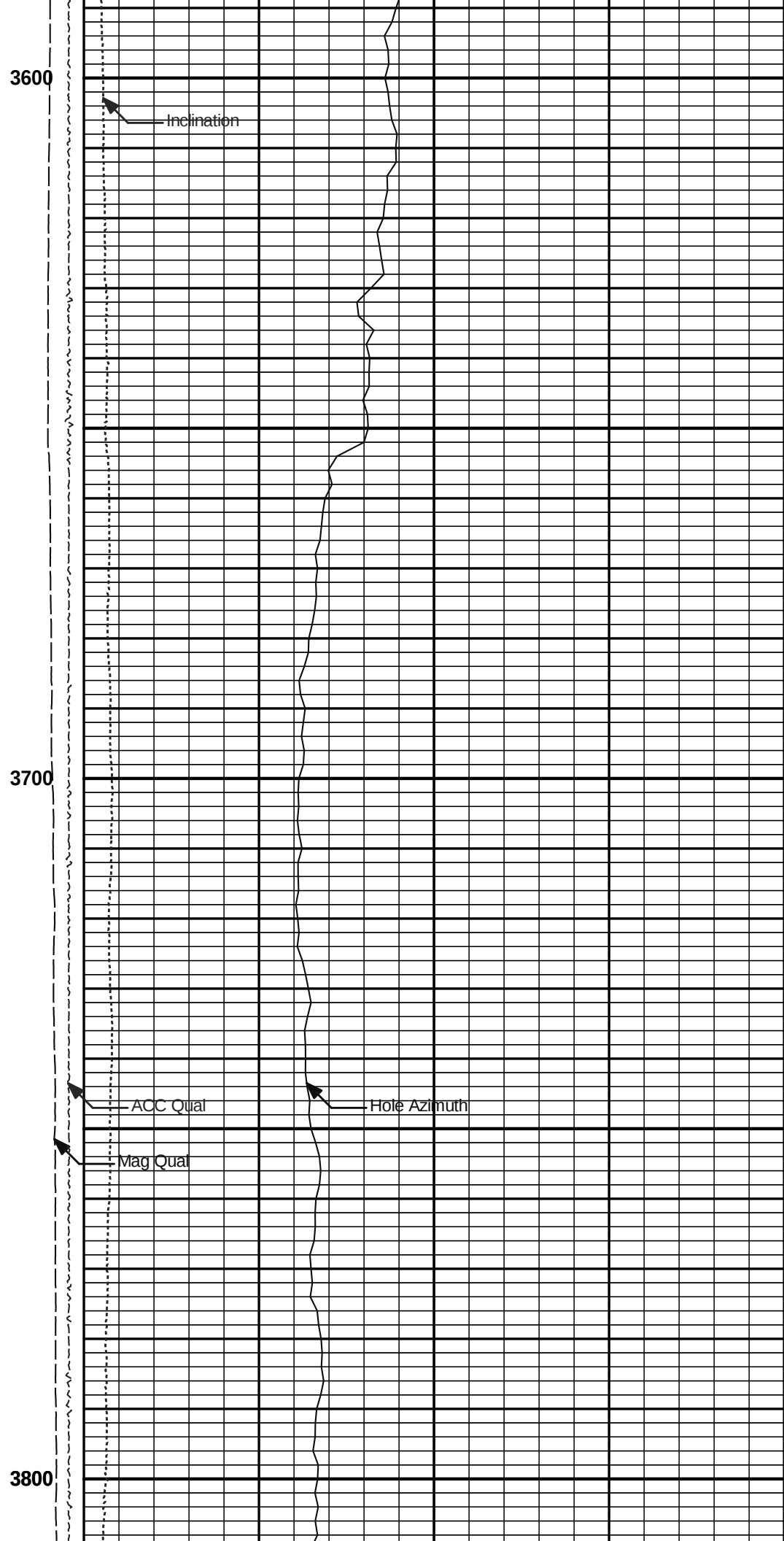
PAD1 Azimuth

ACC Qual

Mag Qual

Hole Azimuth

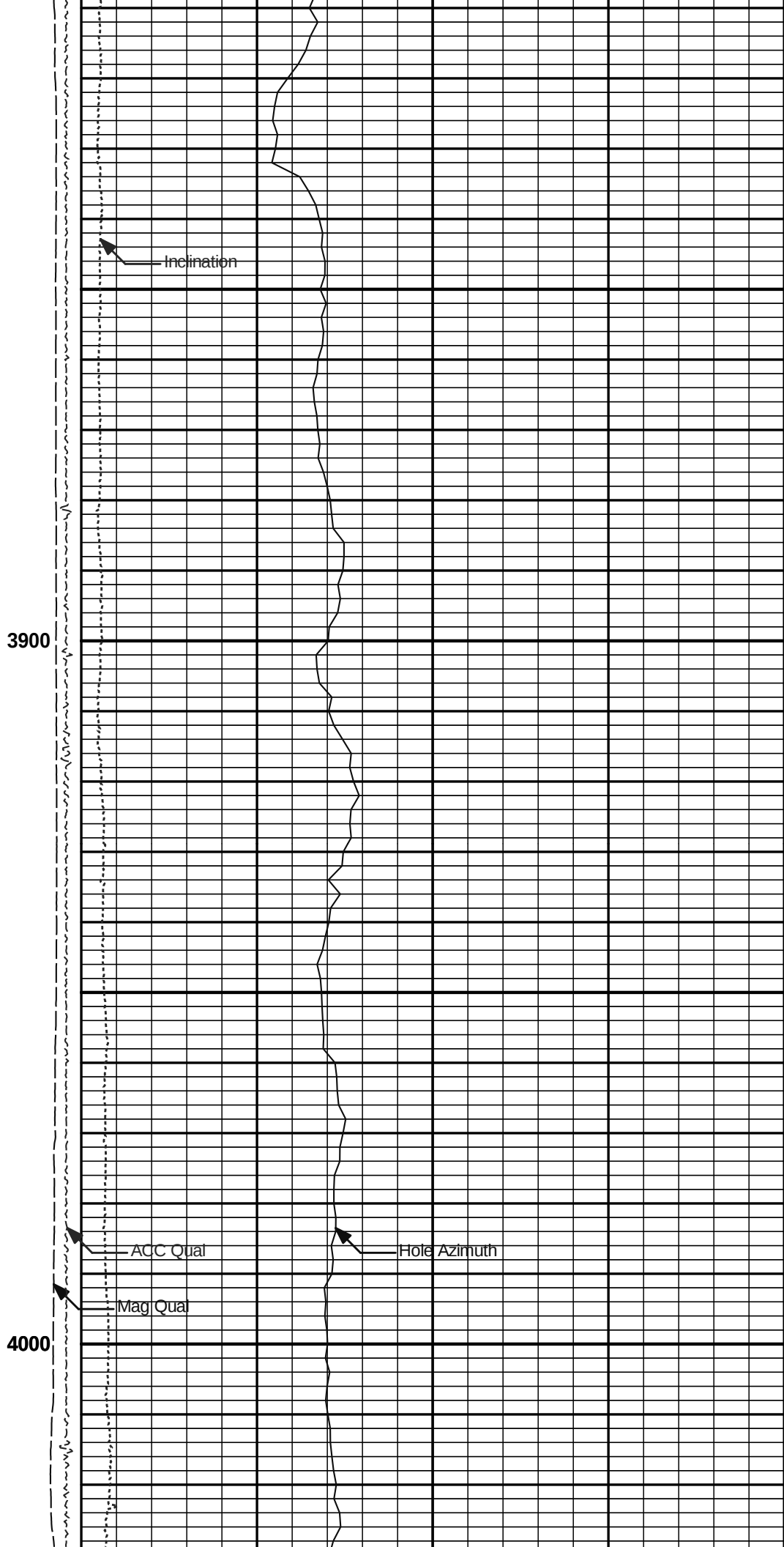
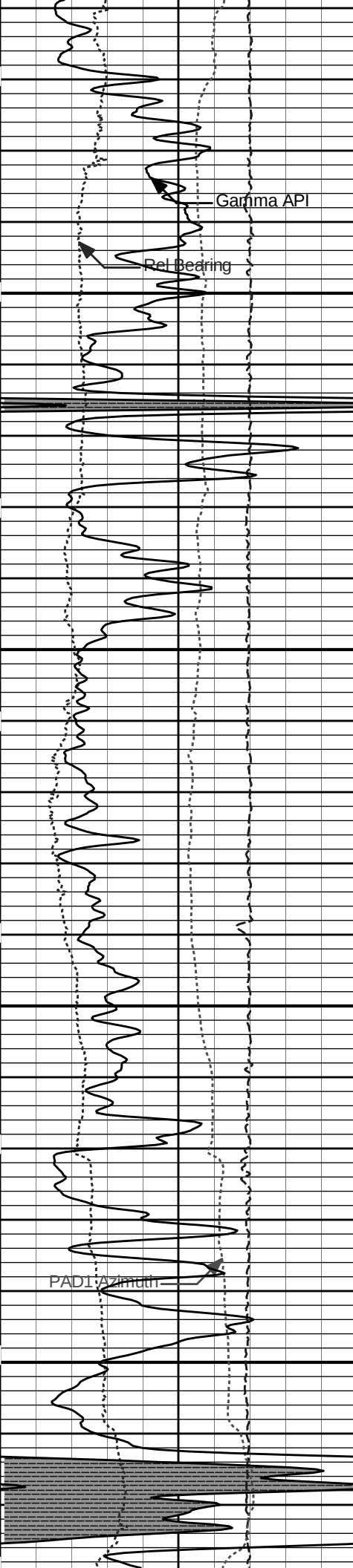


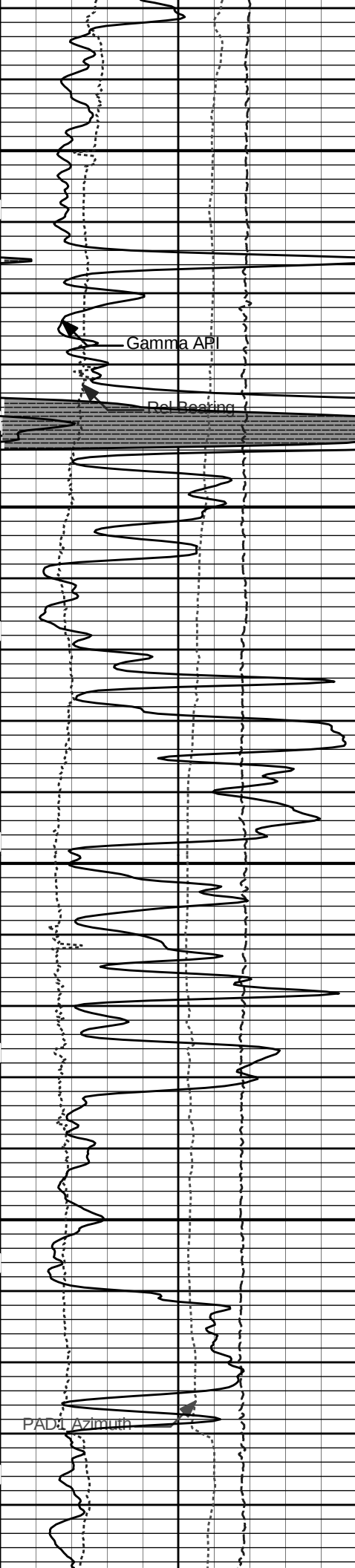


3600

3700

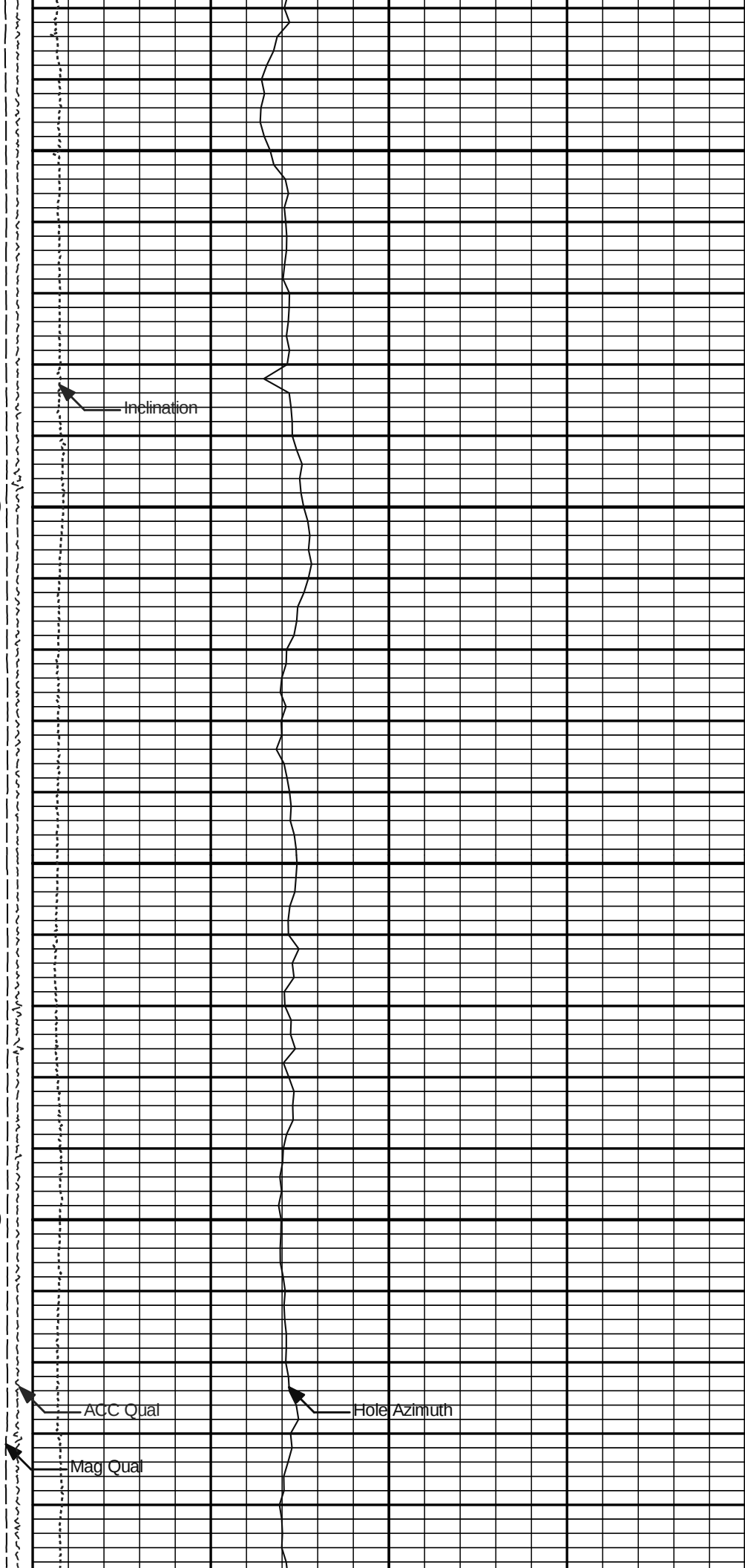
3800

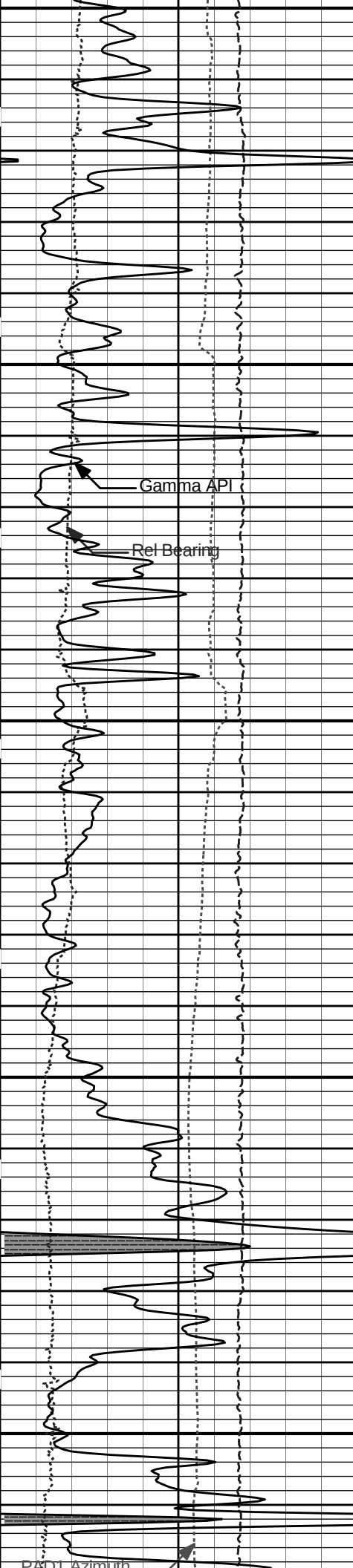




4100

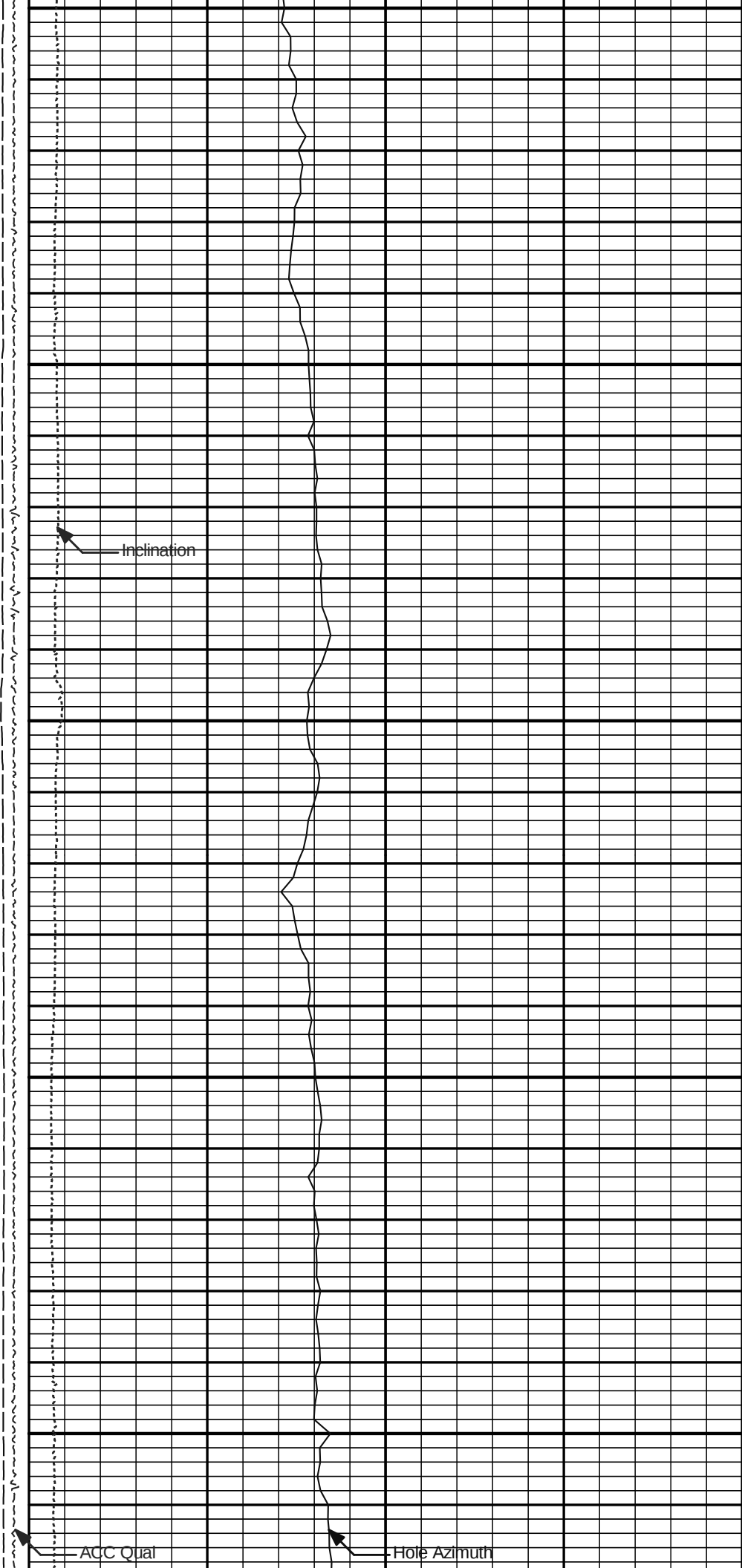
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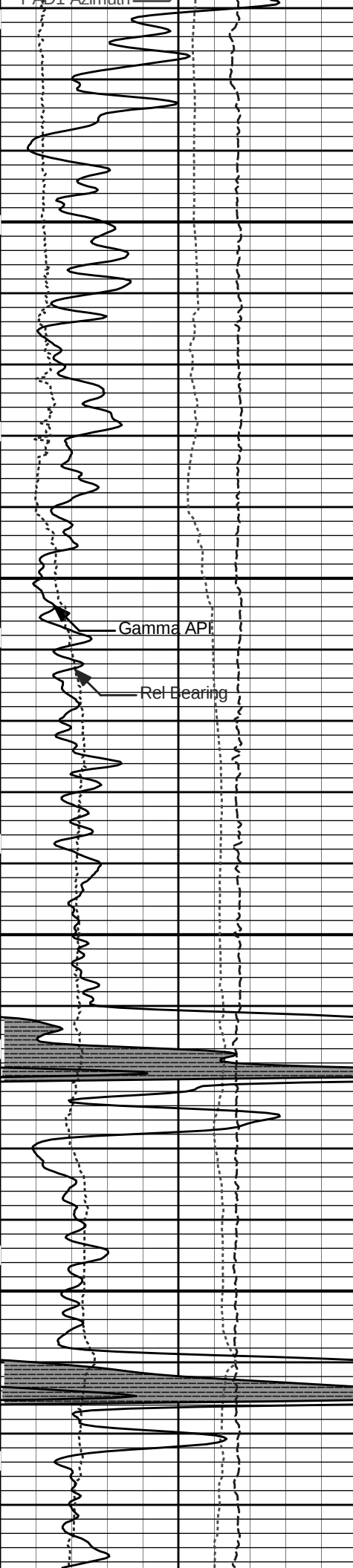




4300

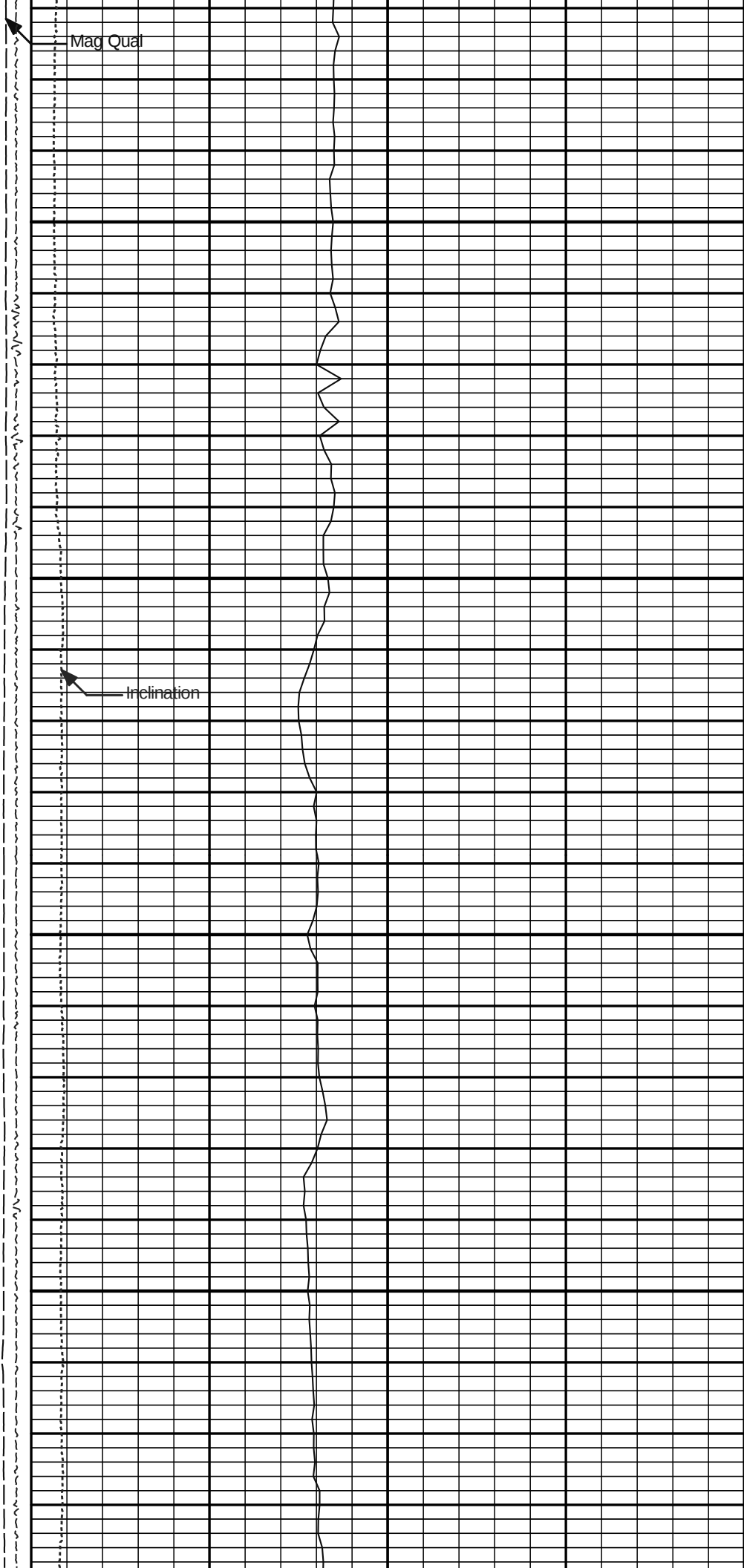
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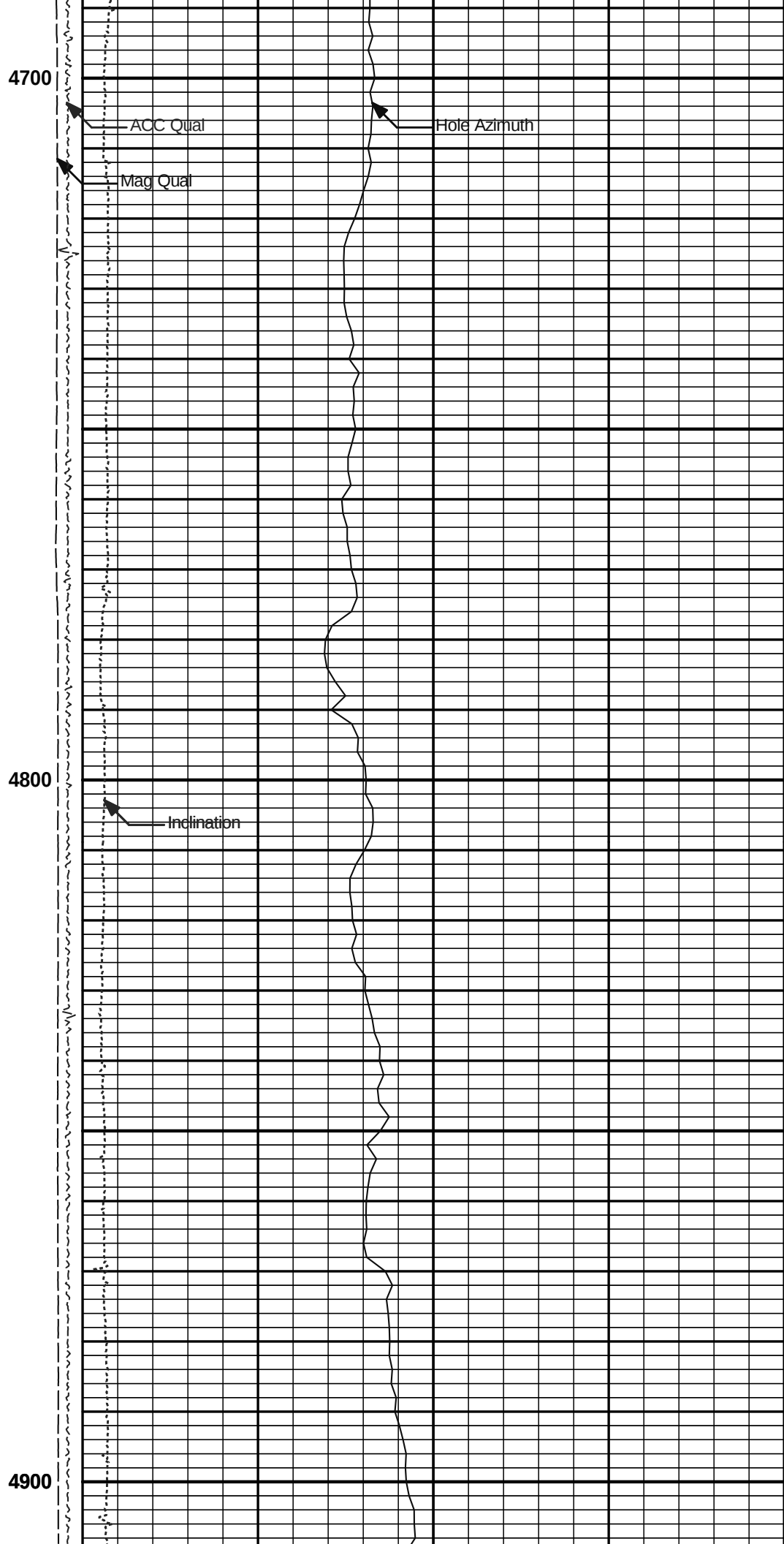
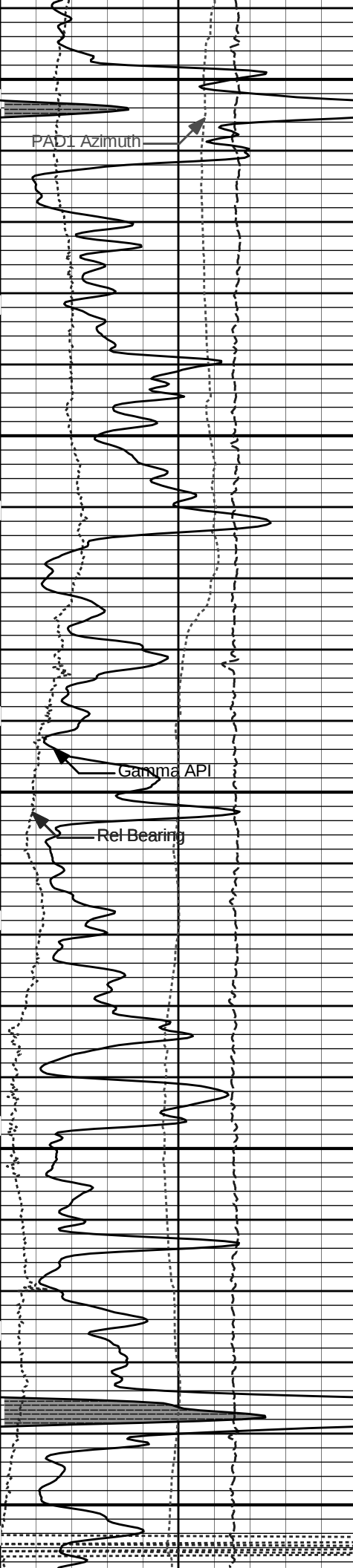


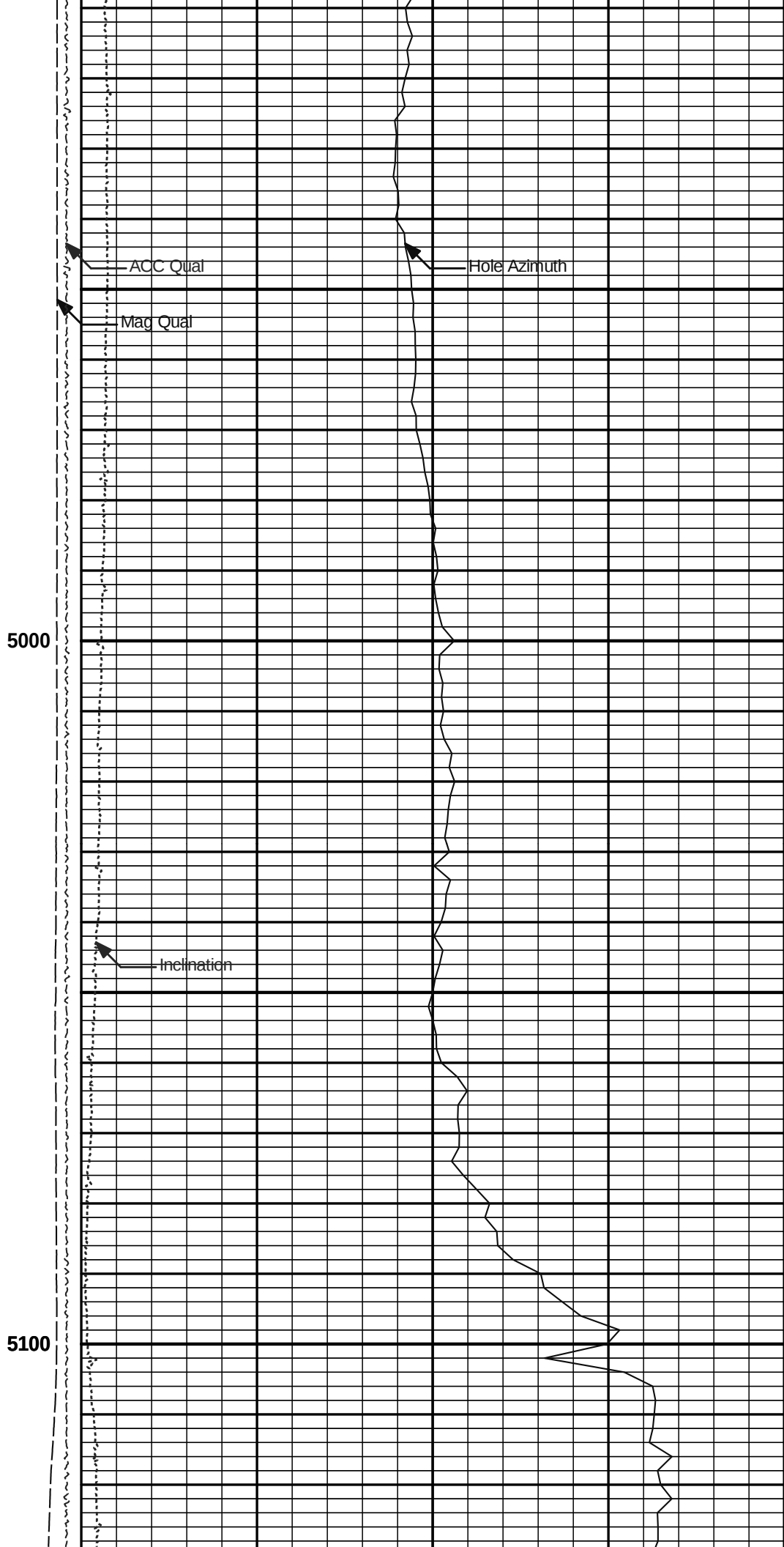
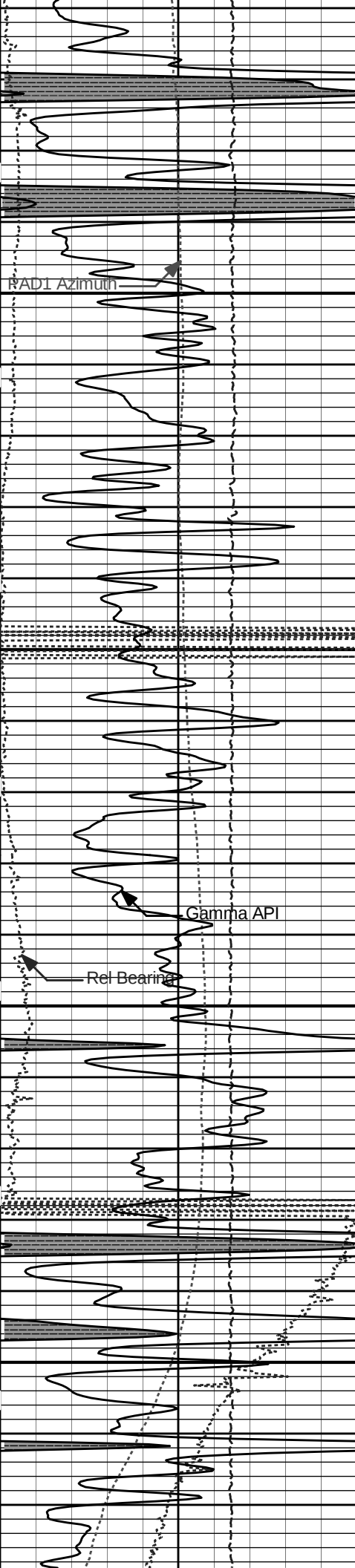


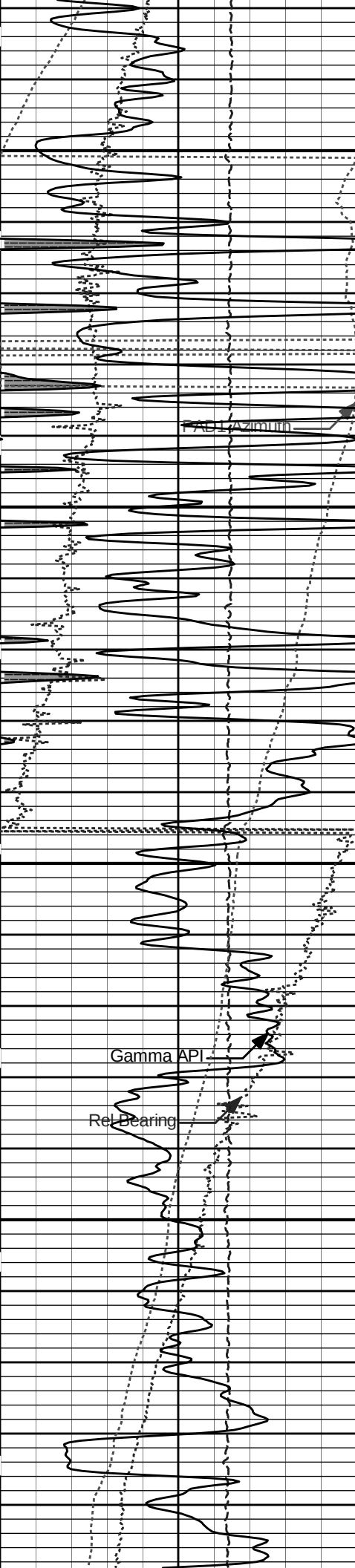
4500

4600



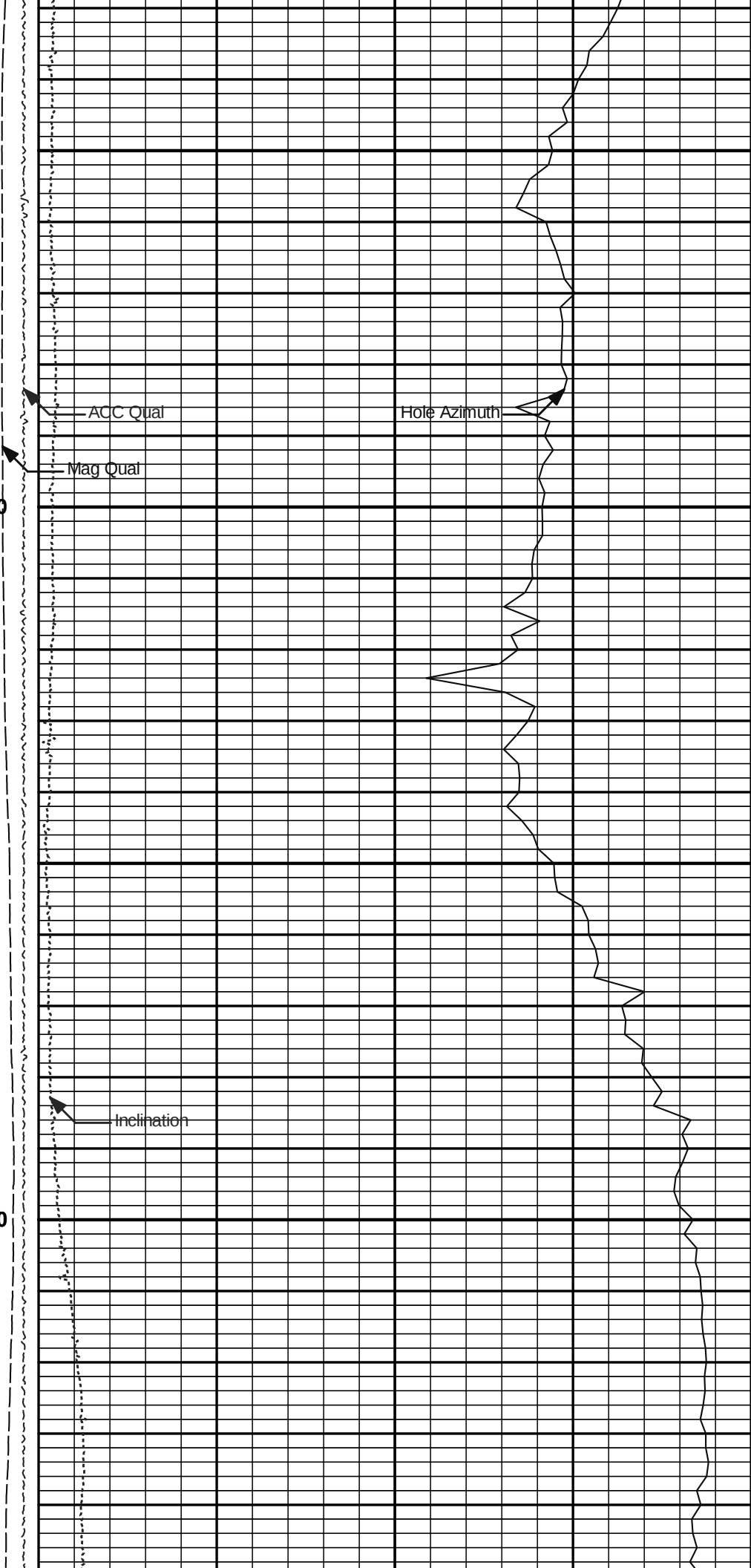


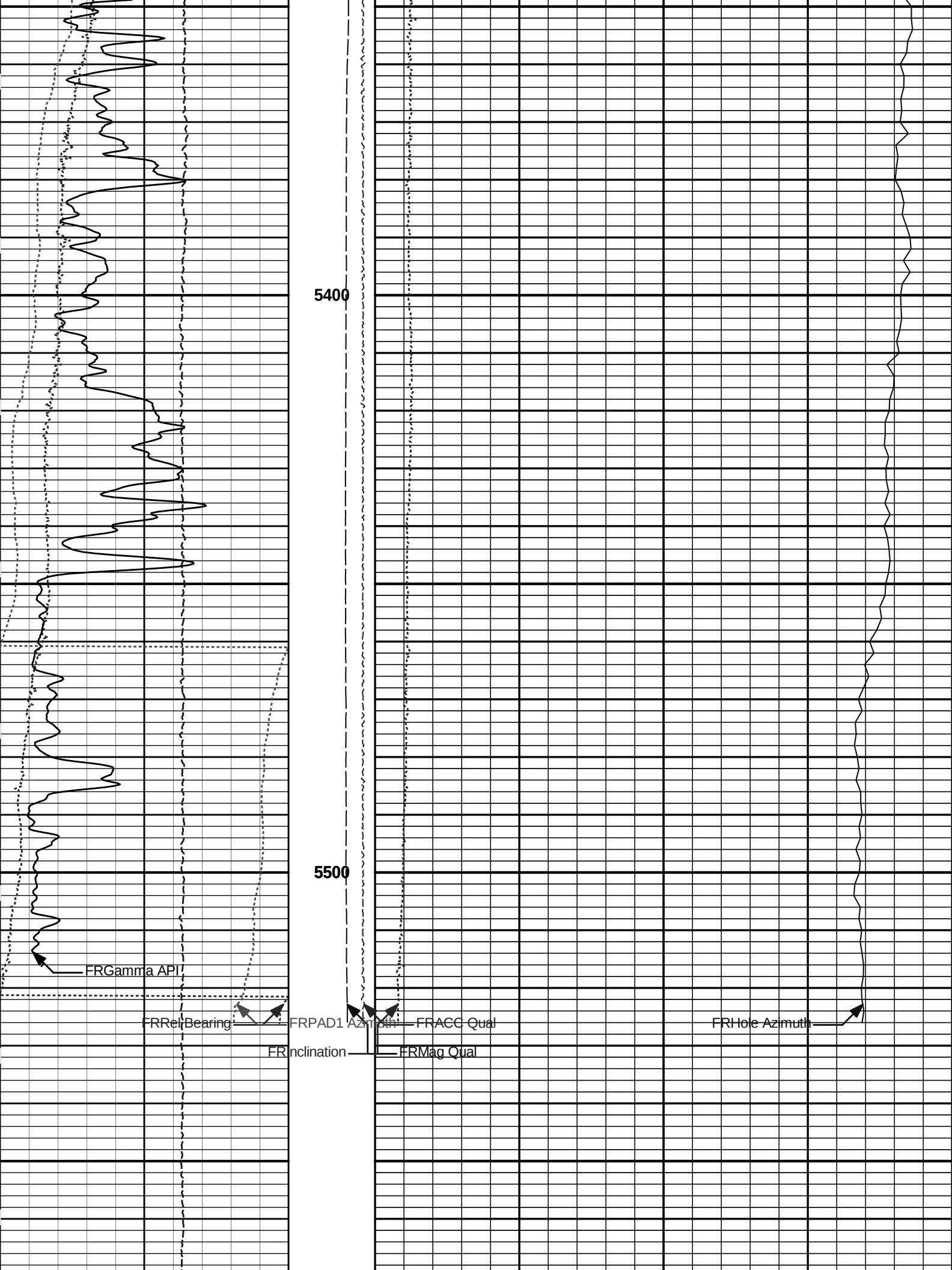


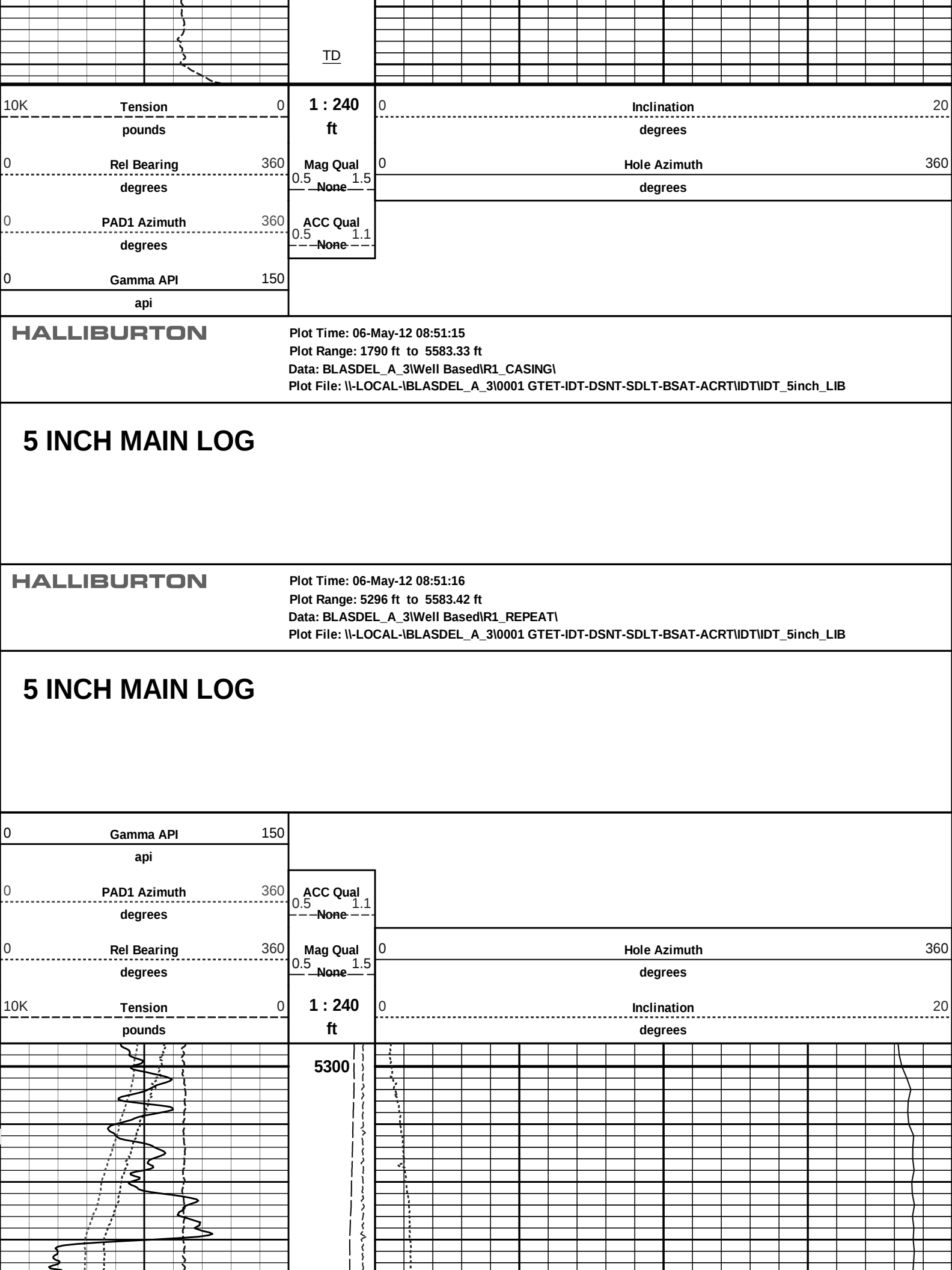


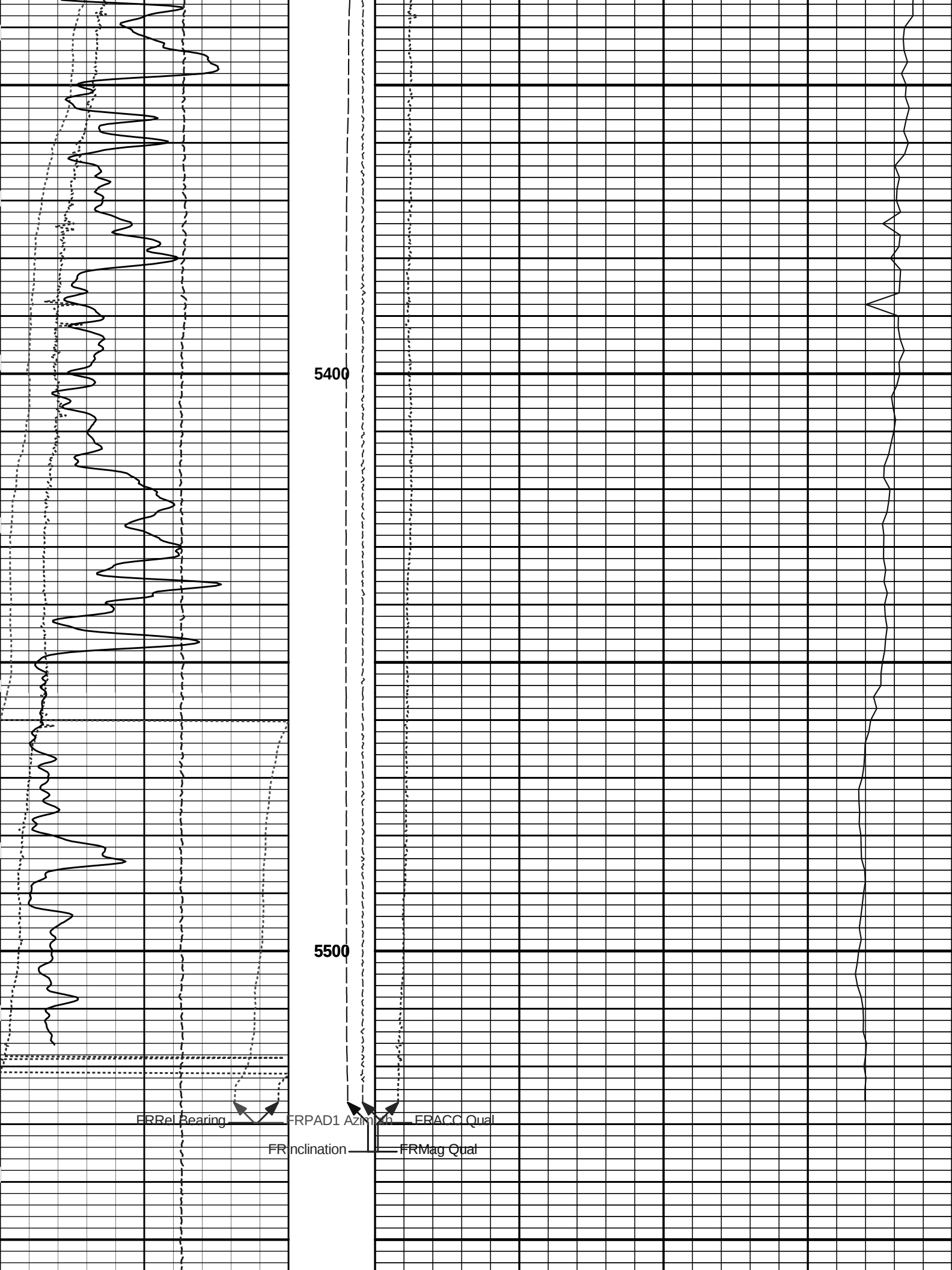
5200

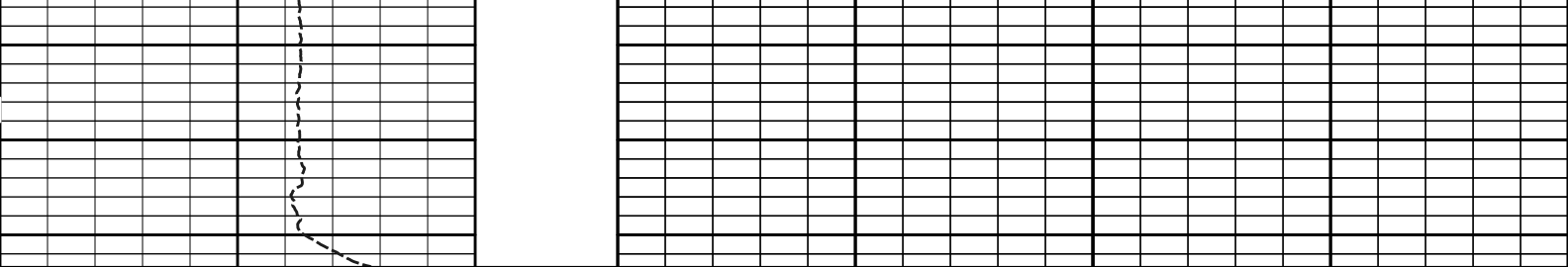
5300











10K	Tension	0	1 : 240	0	Inclination	20
	pounds		ft		degrees	
0	Rel Bearing	360	Mag Qual	0	Hole Azimuth	360
	degrees		0.5 None 1.5		degrees	
0	PAD1 Azimuth	360	ACC Qual			
	degrees		0.5 None 1.1			
0	Gamma API	150				
	api					

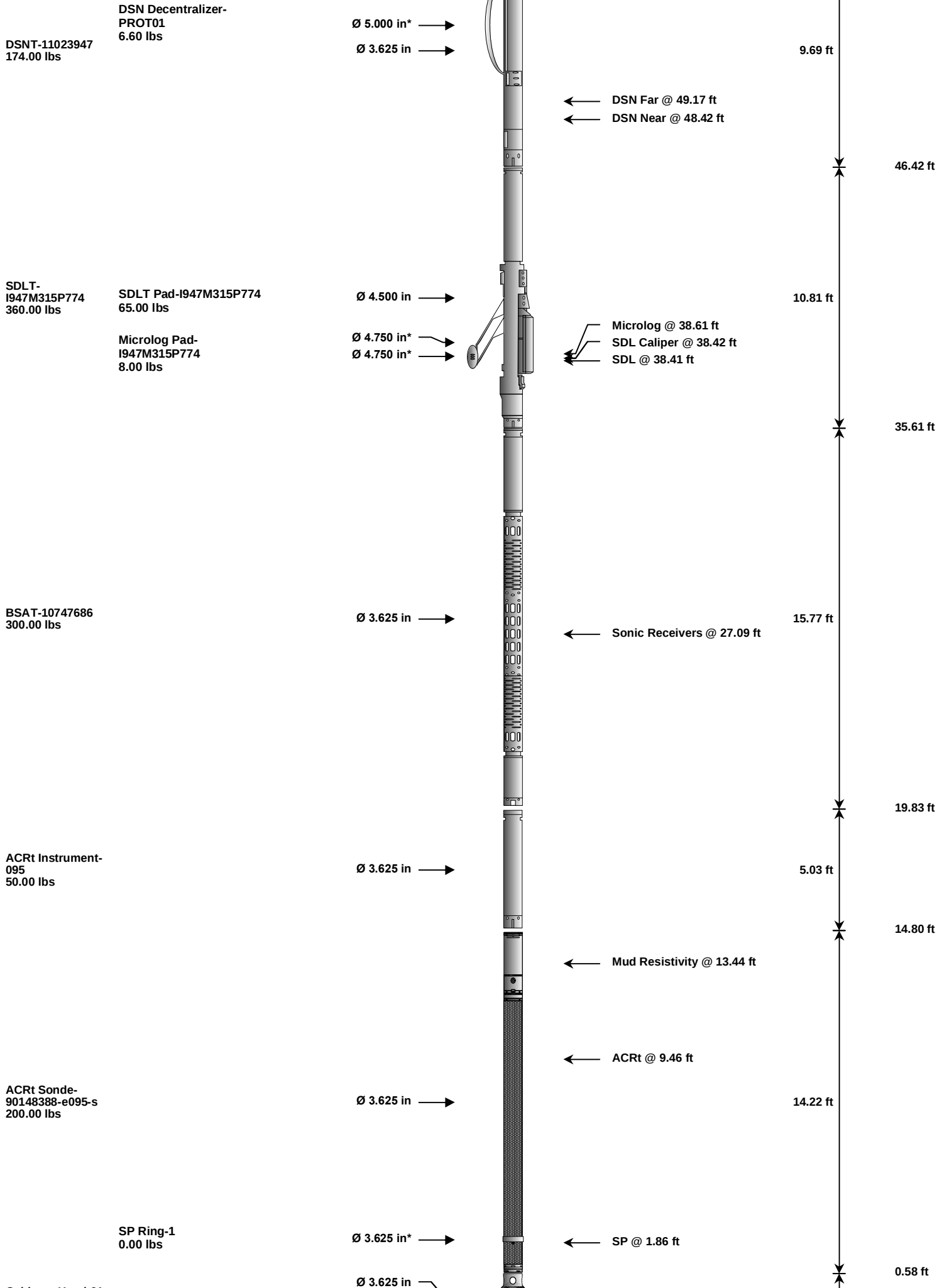
HALLIBURTON	Plot Time: 06-May-12 08:51:18 Plot Range: 5296 ft to 5583.42 ft Data: BLASDEL_A_3\Well Based\IR1_REPEAT\ Plot File: \\-LOCAL-BLASDEL_A_3\0001 GTET-IDT-DSNT-SDLT-BSAT-ACRT\IDT\IDT_5inch_LIB
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5 INCH MAIN LOG

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS-336-I 37.50 lbs		Ø 2.750 in →		← Temperature @ 74.21 ft	3.03 ft	75.24 ft
						72.21 ft
GTET-11021138 165.00 lbs		Ø 3.625 in →		← GammaRay @ 66.15 ft	8.52 ft	
						63.69 ft
IDT-11231094 150.00 lbs		Ø 3.625 in →			7.58 ft	
						56.11 ft



Cabbage Head-01

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_HOS	Hostile Cable Head with Load Cell	336-I	37.50	3.03	72.21	300.00
GTET	Gamma Telemetry Tool	11021138	165.00	8.52	63.69	60.00
IDT	Insite Directional Tool	11231094	150.00	7.58	56.11	30.00
DSNT	Dual Spaced Neutron	11023947	174.00	9.69	46.42	60.00
DCNT	DSN Decentralizer	PROT01	6.60	5.13	*	49.75
SDLT	Spectral Density Tool	I947M315P774	360.00	10.81	35.61	60.00
MICP	Microlog Pad	I947M315P774	8.00	1.00	*	38.11
SDLP	Density Insite Pad	I947M315P774	65.00	2.55	*	37.82
BSAT	Borehole Sonic Array Tool	10747686	300.00	15.77	19.83	60.00
ACRt	Array Compensated True Resistivity Instrument Section	095	50.00	5.03	14.80	300.00
ACRt	Array Compensated True Resistivity	90148388-e095-s	200.00	14.22	0.58	300.00
SP	SP Ring	1	0.00	0.25	*	1.86
CBHD	Cabbage Head	01	10.00	0.58	0.00	300.00

Total			1,526.10	75.24	* Not included in Total Length and Length Accumulation.
Data: BLASDEL_A_3I0001 GTET-IDT-DSNT-SDLT-BSAT-ACRTIDLE			Date: 06-May-12 03:47:02		

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 11021138	Reference Calibration Date:	22-Apr-12 21:06:30
Engineer:	C.HAVERKAMP	Calibration Date:	03-May-12 05:08:24
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Calibrator Source S/N: MP051807-02			
Calibrator API Reference:234.00 api			
Equivalent Calibrator API Reference:238.1 api			
Measurement	Measured	Calibrated	Units
Background	114.5	117.6	api
Background + Calibrator	342.4	351.6	api
Calibrator	237.1	234.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION			
Tool Name:	GTET - 11021138	Reference Calibration Date:	03-May-12 05:08:24
Engineer:	C.HAVERKAMP	Calibration Date:	06-May-12 03:15:30
Software Version:	WL INSITE R3.4.2 (Build 2)	Calibration Version:	1

Calibrator Source S/N: MP051807-02			
Calibrator API Reference:234.00 api			
Equivalent Calibrator API Reference:238.1 api			
Field Verification	Shop	Field	Units
Background	117.6	54.1	api
Background + Calibrator	351.6	293.2	api
Calibrator	234.0	239.1	api
Shop	Field	Difference	Tolerance
234.0	239.1	-5.1	+/- 9.00

ACCELEROMETER AND MAGNETOMETER SHOP CALIBRATION			
Tool Name:	IDT - 11021094	Reference Calibration Date:	10-May-12 03:15:37:07

Reference Gravity Field: 1.0000 g
Reference Magnetic Field: 57760.0000 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	Quality(Gravity)	Quality Error(%)	QF
0.1887	-0.7321	0.0101	1.0006	99.9376	1
-0.7302	-0.1361	0.0093	1.0000	99.9993	1
-0.1302	0.7210	0.0095	0.9996	99.9568	1
0.7559	0.0866	0.0103	0.9999	99.9914	1
0.0670	0.7323	0.0003	0.9999	99.9923	1
-0.1526	0.6714	0.1341	1.0007	99.9272	1
0.0248	0.7342	0.0114	0.9998	99.9805	1
0.7499	-0.1434	0.0124	1.0000	99.9988	1
-0.0734	-0.7478	0.0113	0.9994	99.9443	1
-0.7364	0.0730	0.0106	0.9997	99.9707	1
-0.0593	0.0020	0.3778	0.9999	99.9879	1
-0.6655	0.2310	-0.1040	1.0004	99.9601	1

ACCELEROMETER QUALITY SUMMARY	
Average Calculated Gravity Field	1.0000 g
Standard Deviation Calculated Gravity Field	0.0004 g

ACCELEROMETER GAIN AND OFFSET		
	GAIN	OFFSET
ACC X	1.3301651478	-0.0139528615
ACC Y	1.3446035385	0.0123427911
ACC Z	2.6820049286	-0.0178084746

* 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	Quality(Magnetic)	Quality Error(%)	QF
-0.0350	1.3755	0.0227	57691.7969	99.8819	1
1.3577	-0.0764	0.0155	57746.0273	99.9758	1
-0.0462	-1.3894	0.0170	57792.2070	99.9442	1
-1.3649	0.1201	0.0218	57685.6953	99.8714	1
-0.1220	-1.3509	0.2830	57351.7578	99.2932	1
0.3188	-1.3416	0.1904	57829.3008	99.8800	1
-0.0231	-1.3654	-0.2674	58096.6719	99.4171	1
-1.3225	0.2356	-0.2631	57849.5234	99.8450	1
0.1384	1.3394	-0.2640	57807.5820	99.9176	1
1.3250	-0.1538	-0.2695	57976.6406	99.6249	1
0.3378	-0.2902	1.3432	57823.7461	99.8896	1
1.1120	-0.3807	-0.6586	57449.4063	99.4623	1

MAGNETOMETER QUALITY SUMMARY	
Average Calculated Magnetic Field	57758.3633 nT
Standard Deviation Calculated Magnetic Field	203.1411 nT

MAGNETOMETER GAIN AND OFFSET	
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	GAIN	OFFSET
MAG X	42280.6406250000	265.6466979980
MAG Y	41753.8320312500	245.8357543945
MAG Z	41625.7226562500	-1221.4552001953
Noise Level Value: 0.000179 cnts		
Noise Level Cal Value: 0.0005 g		

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11021138						
Gamma Ray Calibrator	234.0	239.1	-----	-5.1	+/- 9.00	api
Data: BLASDEL_A_3\0001 GTET-IDT-DSNT-SDLT-BSAT-ACRT\IDLE					Date: 06-May-12 03:49:42	

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	9.200	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	1500.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	2.000	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	5611.00	ft
	SHARED	BHT	Bottom Hole Temperature	130.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	IDT	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	IDT	
	SHARED	TEMM	Temperature Master Tool	NONE	
	SHARED	BHSM	Borehole Size Master Tool	NONE	
	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	75.00	degF
	Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
	Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
	GTET	GROK	Process Gamma Ray?	Yes	
	GTET	GRCC	Gamma Ray Count Rate	0.000	api

GTET	GRSO	Gamma Tool Standoff	0.000	in
GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
IDT	WRTI	Survey Writing Interval	30	ft
IDT	SOPT	Smoothing Option	None	
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	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_____				
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HALLIBURTON				
INPUTS, DELAYS AND FILTERS TABLE				
Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
CH_HOS				
DHTN	DownholeTension	0.00	BLK	0.000
GTET				

TPUL	Tension Pull	66.15	NO	
GR	Natural Gamma Ray API	66.15	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	66.15	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	66.15	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
IDT				
TPUL	Tension Pull	57.10	NO	
ACCX	Accelerometer X	57.10	NO	
ACCY	Accelerometer Y	57.10	NO	
ACCZ	Accelerometer Z	57.10	NO	
MAGX	magnetometer x with unit	57.10	NO	
MAGY	Magnetometer Y with unit	57.10	NO	
MAGZ	magnetometer z with unit	57.10	NO	
IAMP	Accelerometer Temperature	57.10	NO	
MTMP	Magnetometer Temperature	57.10	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
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
SP Ring				
PLTC	Plot Control Mask	1.86	NO	
SP	Spontaneous Potential	1.86	BLK	1.250
SPR	Raw Spontaneous Potential	1.86	NO	
SPO	Spontaneous Potential Offset	1.86	NO	
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COMPANY	OXY USA, INC.			
WELL	BLASDEL A-3			
FIELD	LEMON			
COUNTY	HASKELL	STATE	KANSAS	
HALLIBURTON		DIRECTIONAL LOG		