

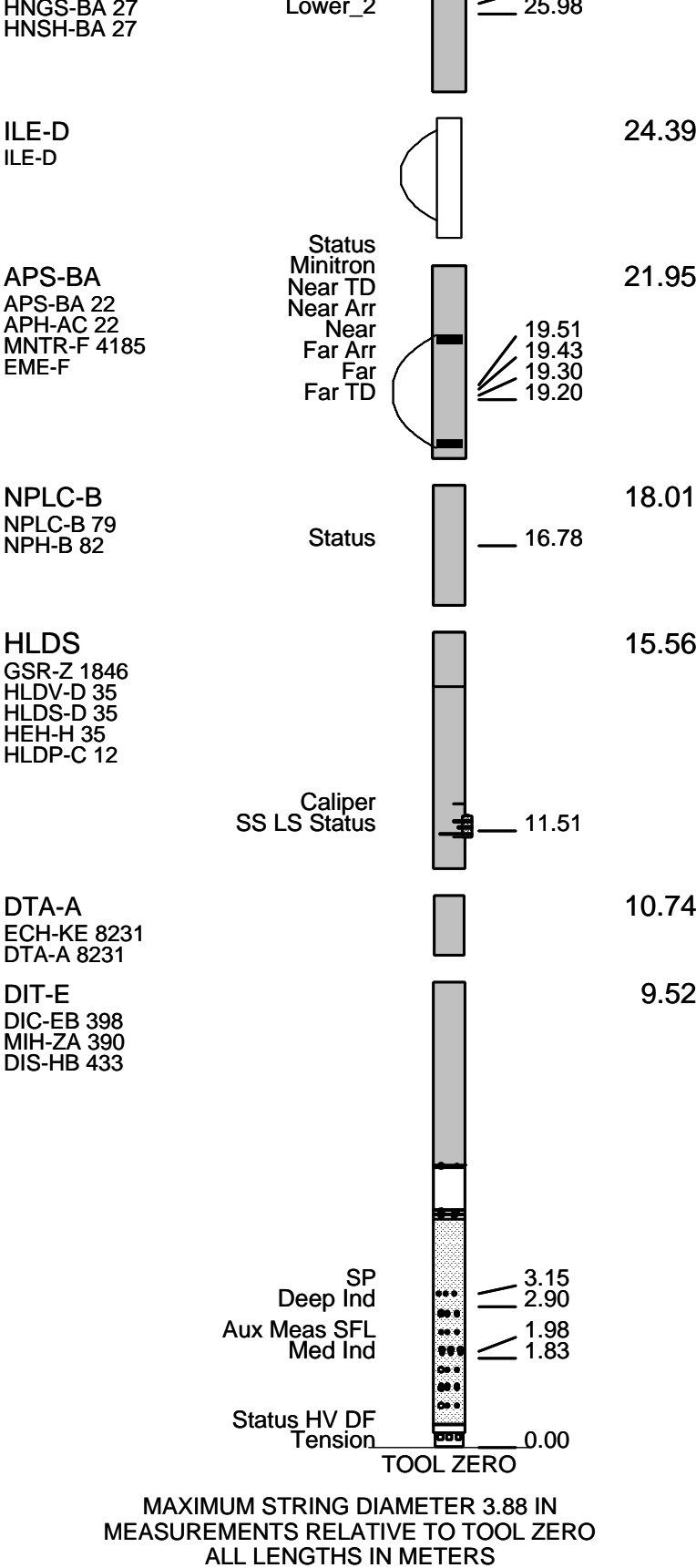
[illegible]

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[illegible][illegible]

RUN 1		RUN 2	
SURFACE EQUIPMENT			
SFT-281 24 SFT-178 4722 GSR-U 135 WITM (DTS)-A			
DOWNHOLE EQUIPMENT			
LEH-QT			28.69
LEH-QT			
DTC-H	CTEM		27.52
ECH-KC	TelStatus		27.80
	ToolStatu		26.89
HNGS-BA	Upper_1		26.19
			26.89



Output DLIS Files						
DEFAULT	DITE .018	FN:5	PRODUCER	28-Oct-2000 00:47	3767.3 M	3414.5 M
IPLT_CUST	DITE .018	FN:6	PRODUCER	28-Oct-2000 00:47	3767.3 M	3414.5 M
DEFAULT_2	DITE .018	FN:7	PRODUCER	28-Oct-2000 00:47	3767.3 M	3414.5 M

Output DLIS Files						
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OP System Version: 9C1-303			
MCM			
DIT-E	OP91-kp2	DTA-A	OP91-kp2
HLDS	OP91-kp2	NPLC-B	OP91-kp2
APS-BA	OP91-kp2	HNGS-BA	OP91-kp2
DTC-H	OP91-kp2		

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APS-BA	OP91-kp2	HNGS-BA	OP91-kp2
DTC-H	OP91-kp2		

Time Mark Every 60 S	PIP SUMMARY	MAIN UP LOG
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Time Mark Every 60 S

PIP SUMMARY

MAIN UP LOG

MAIN UP LOG

	<p>SFL_</p> <p>QUAL</p> <p>From D3T</p> <p>to SFQF</p>	
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IM_QUAL From SFQF to IMQF	0.2	SFL Unaveraged (SFLU) (OHMM)	2000
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IM_QUAL From SFQF to IMQF	0.2	SFL Unaveraged (SFLU) (OHMM)	2000
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<p>HNGS Spectroscopy Gamma Ray (HSGR)</p> <p>0 150</p> <p>(GAPI)</p>	<p>ID_QUAL From IMQF to IDQF</p>	<p>Medium Induction Phasor-processed Resistivity (IMPH) (OHMM)</p> <p>0.2 2000</p>
--------------------------------------------------------------------------	----------------------------------------------	----------------------------------------------------------------------------------------

<p>HNGS Spectroscopy Gamma Ray (HSGR)</p> <p>0 150</p> <p>(GAPI)</p>	<p>ID_QUAL From IMQF to IDQF</p>	<p>Medium Induction Phasor-processed Resistivity (IMPH) (OHMM)</p> <p>0.2 2000</p>
--------------------------------------------------------------------------	----------------------------------------------	----------------------------------------------------------------------------------------

<p>HNGS Spectroscopy Gamma Ray (HSGR)</p> <p>0 150</p> <p>(GAPI)</p>	<p>ID_QUAL From IMQF to IDQF</p>	<p>Medium Induction Phasor-processed Resistivity (IMPH) (OHMM)</p> <p>0.2 2000</p>
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The chart displays the following data ranges:

Method	Unit	Minimum Value	Maximum Value
HLDS Caliper (LCAL)	(IN)	0	20
Tension (TENS)	(LBF)	0	10000
Deep Induction Phasor-processed Resistivity (IDPH)	(OHMM)	0.2	2000

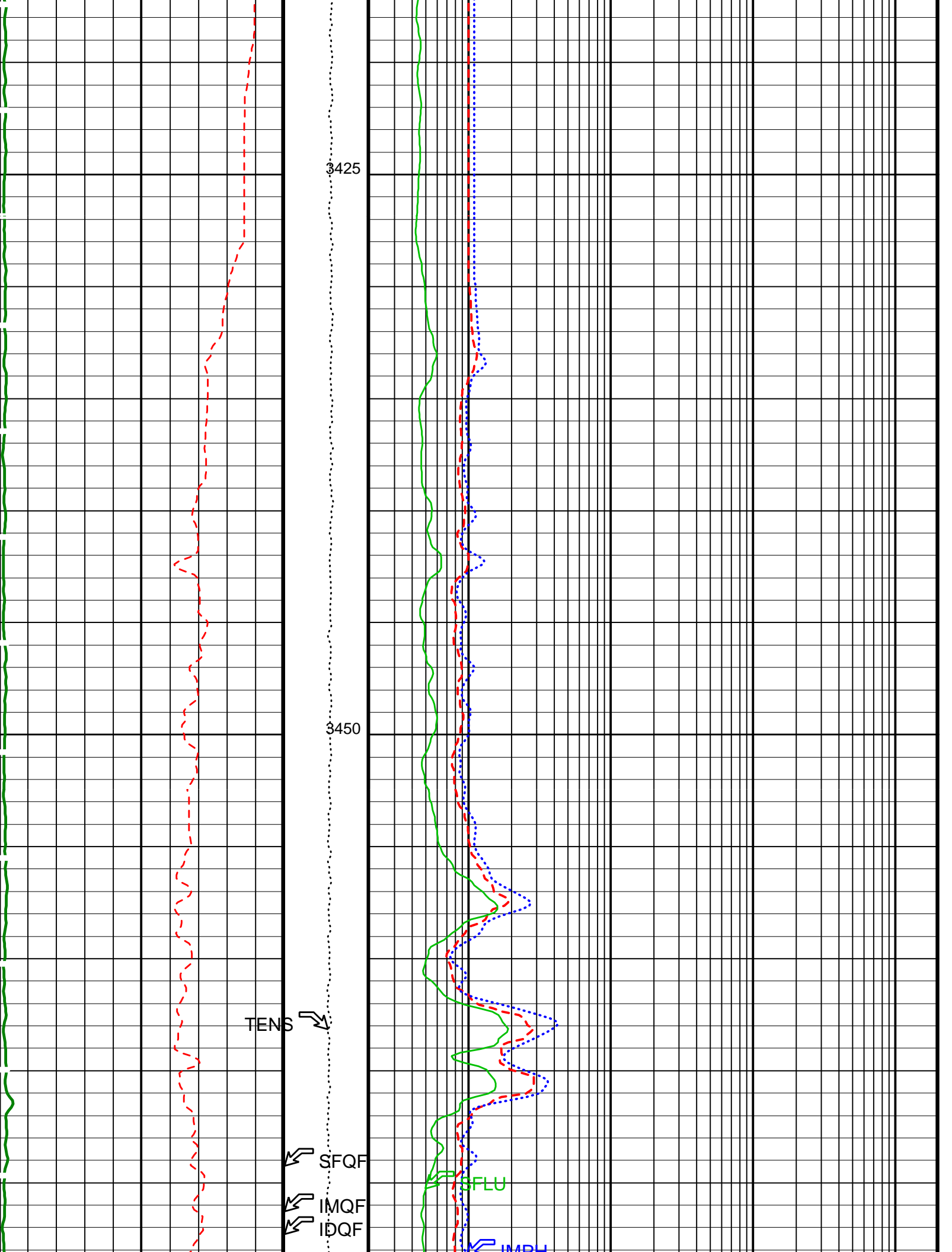
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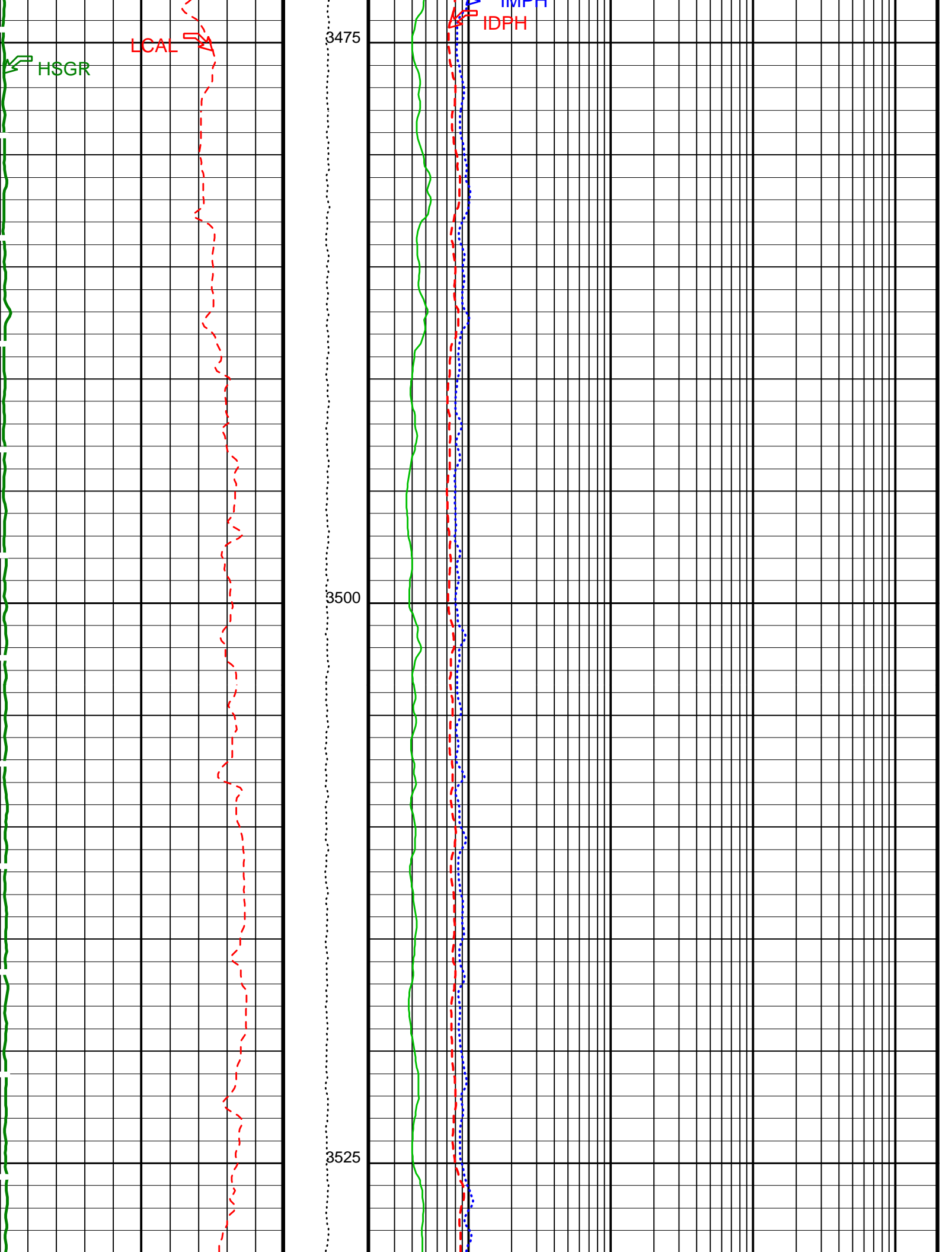
Method	Unit	Minimum Value	Maximum Value
HLDS Caliper (LCAL)	(IN)	0	20
Tension (TENS)	(LBF)	0	10000
Deep Induction Phasor-processed Resistivity (IDPH)	(OHMM)	0.2	2000

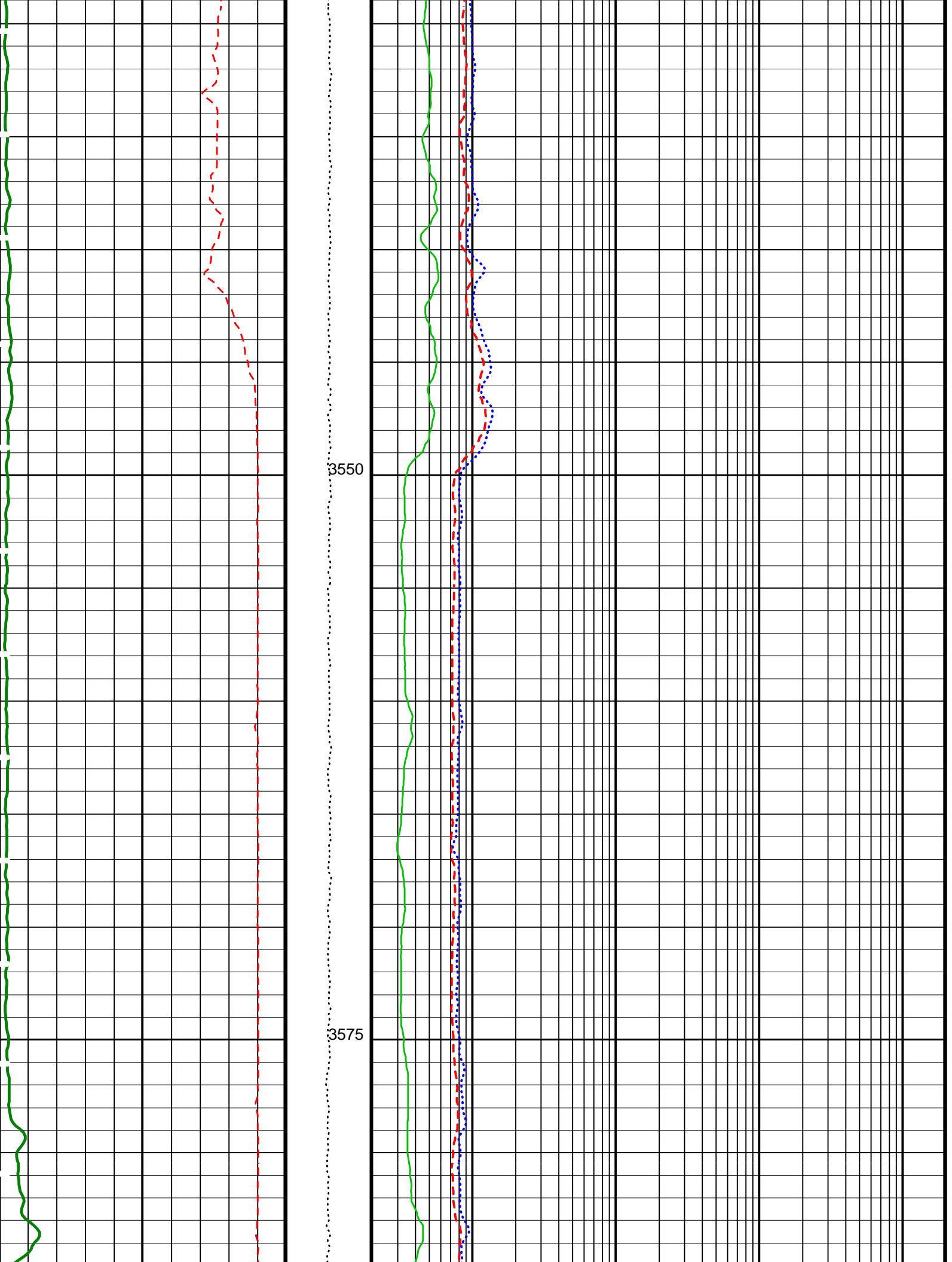
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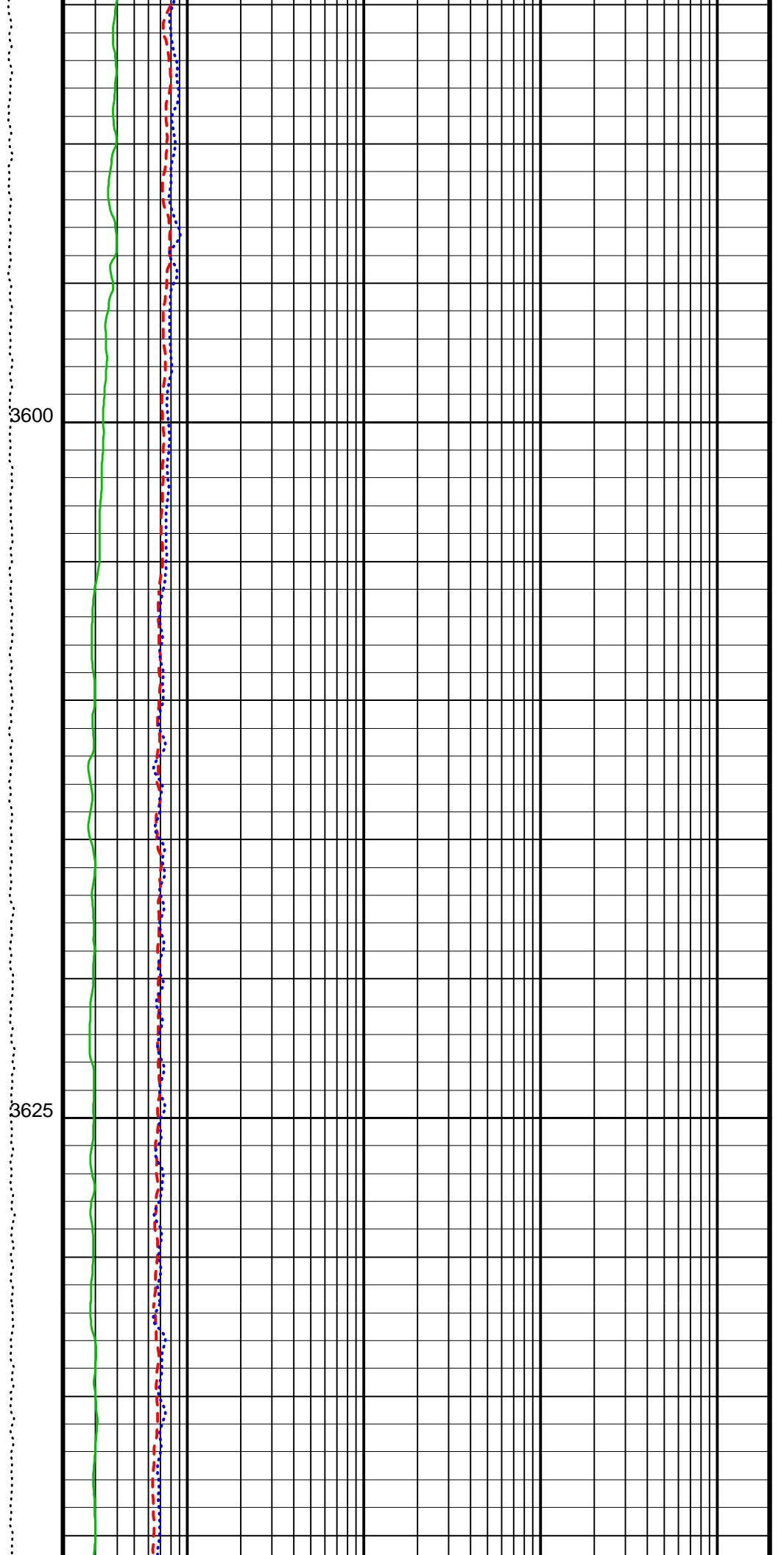
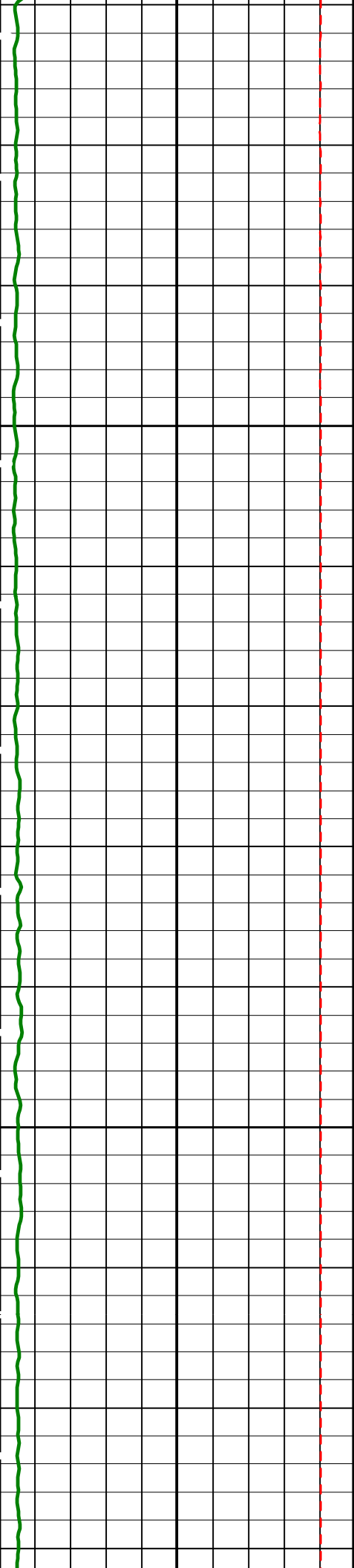
Method	Unit	Minimum Value	Maximum Value
HLDS Caliper (LCAL)	(IN)	0	20
Tension (TENS)	(LBF)	0	10000
Deep Induction Phasor-processed Resistivity (IDPH)	(OHMM)	0.2	2000

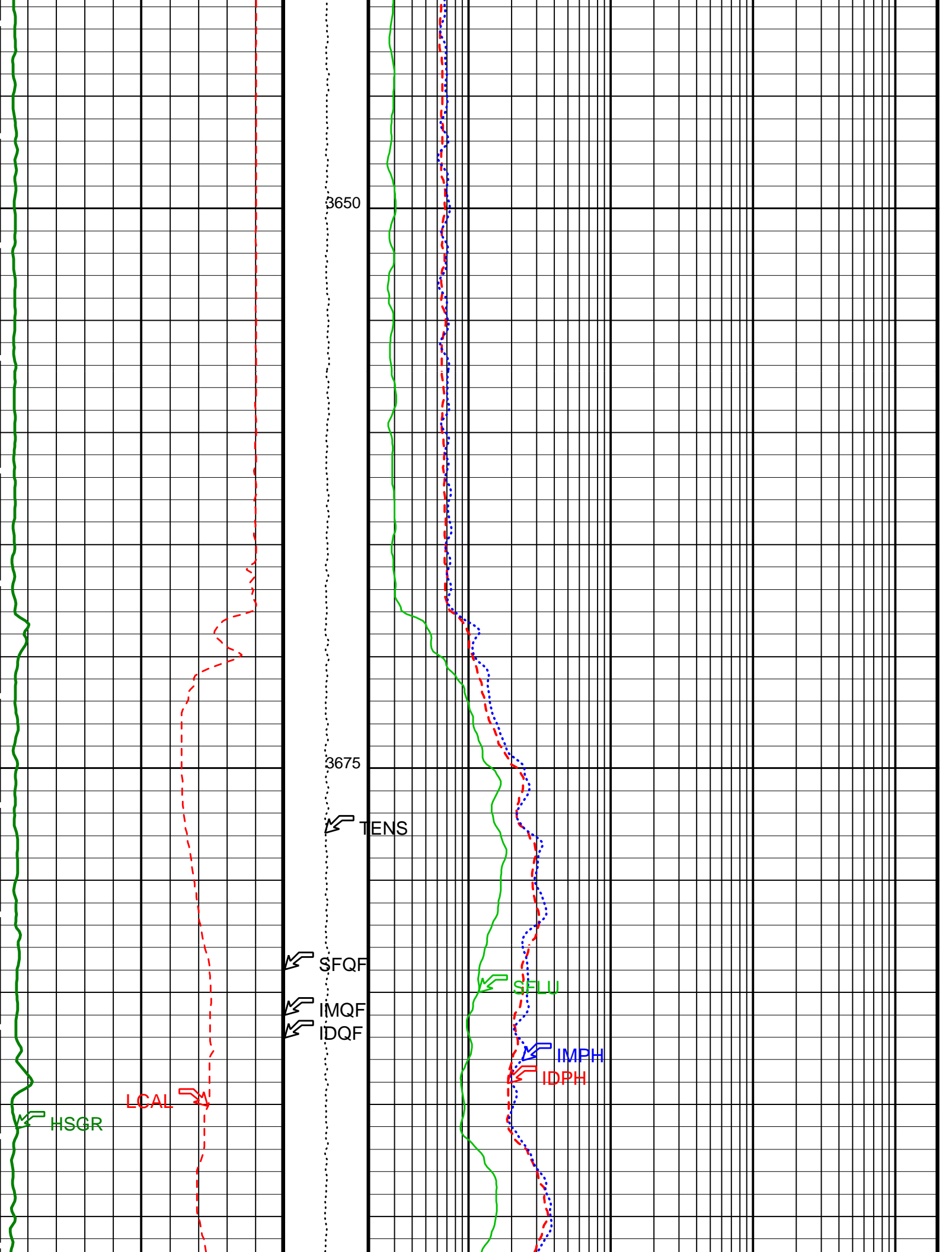
Timeline diagram showing the progression of a project. A horizontal timeline is divided into segments by vertical lines. A blue box labeled "Last Reading" is positioned over a segment. The timeline is marked with various colored lines: green, red, and blue.

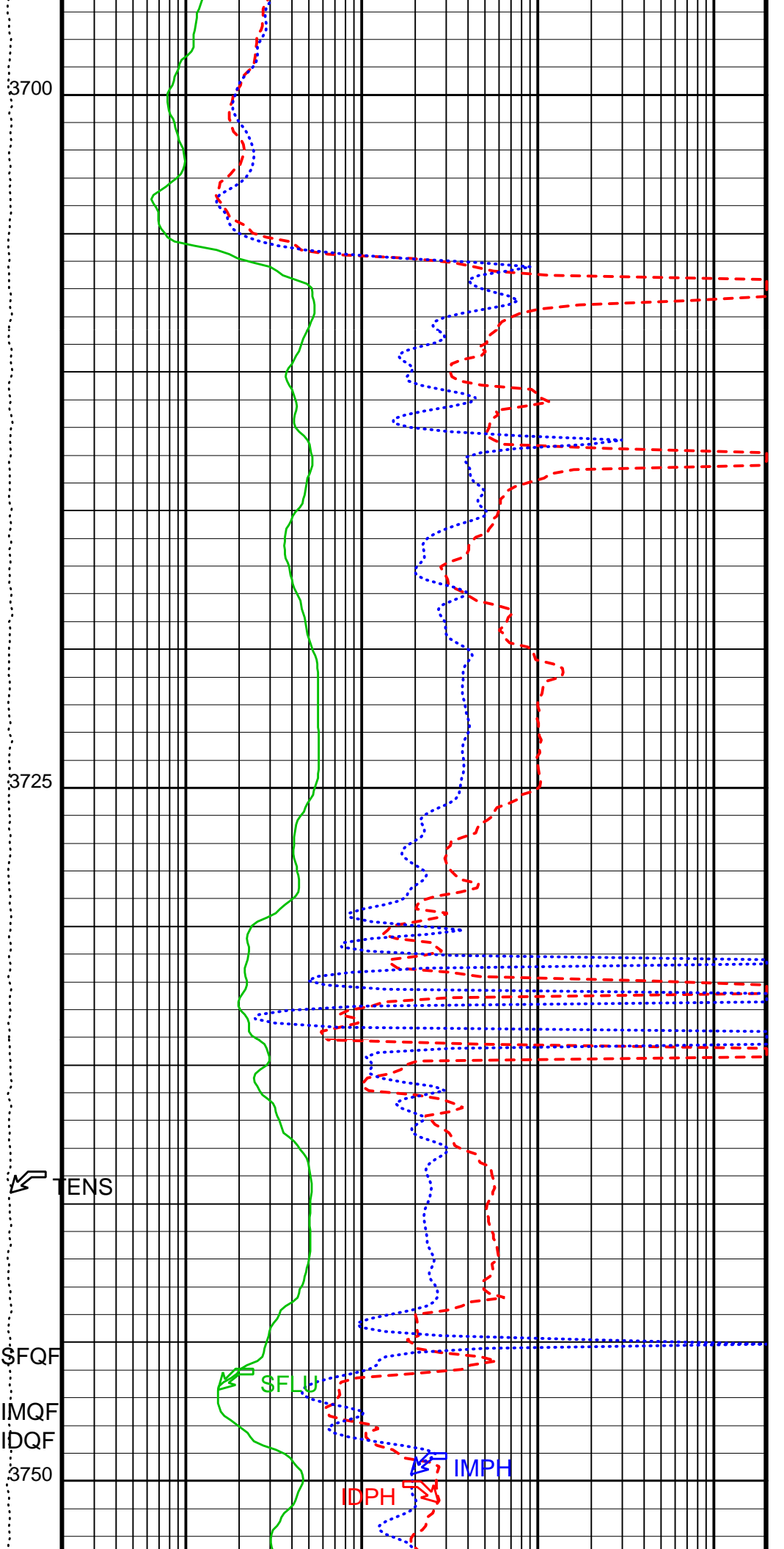
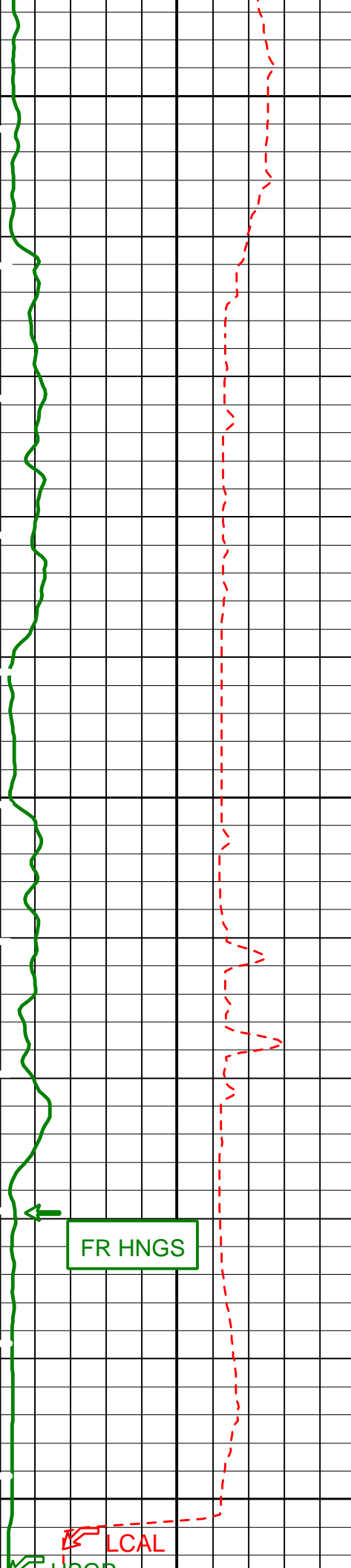


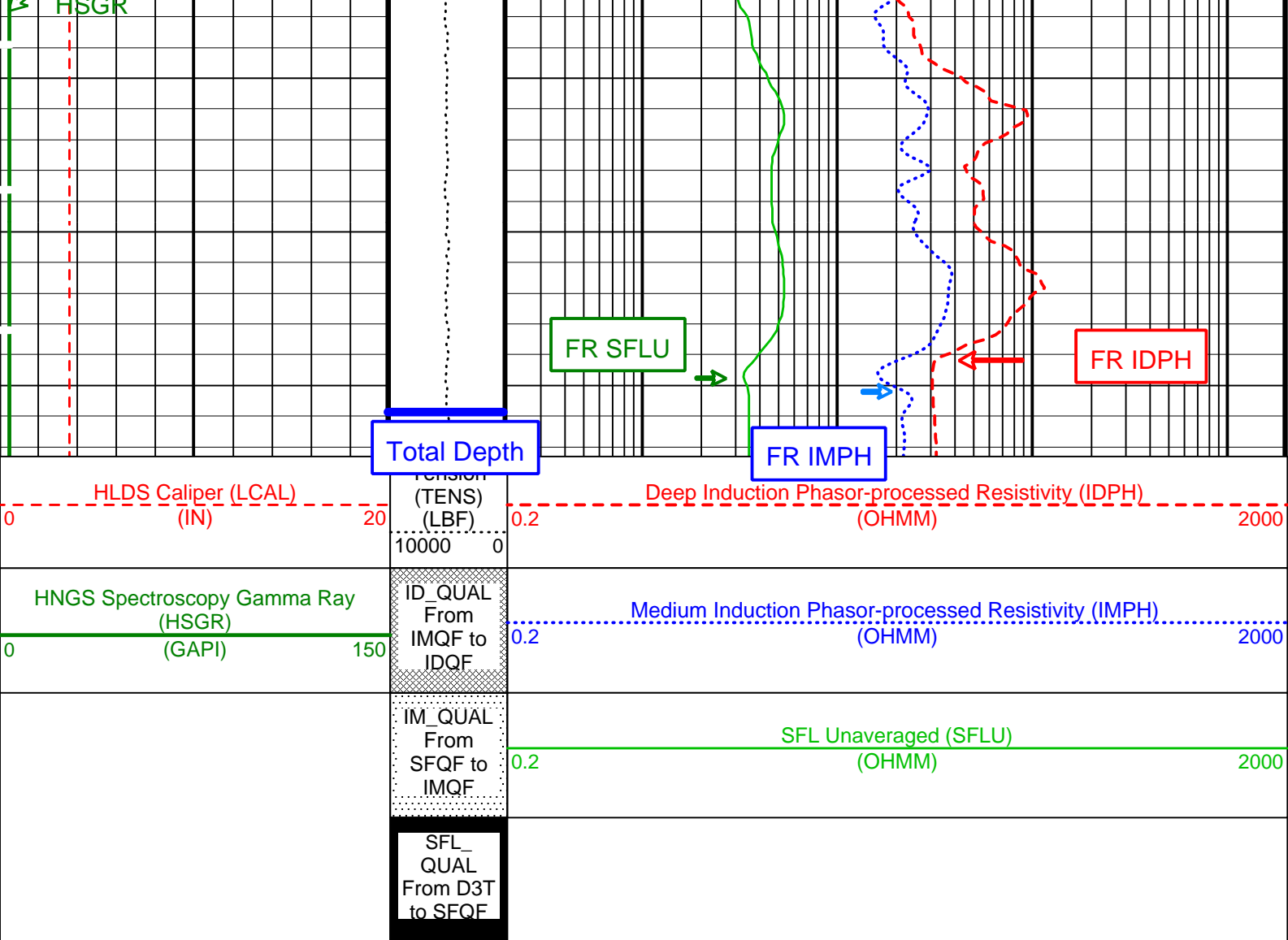












PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
BKSF	HNGS Borehole Fluid Excluder Sleeve Algorithm Factor	1	
BKSH	HNGS Borehole Fluid Excluder Sleeve Algorithm High Channel	245	
BKSL	HNGS Borehole Fluid Excluder Sleeve Algorithm Low Channel	17	
BS	Bit Size	9.875	IN
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
D1PR	HNGS Detector 1 Calibration Thorium Peak Resolution	7.69015	%
D1TC	HNGS Detector 1 Calibration Temperature	28.359	DEGC
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	209.757	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	7.03497	%
D2TC	HNGS Detector 2 Calibration Temperature	27.467	DEGC
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	209.443	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DFD	Drilling Fluid Density	1.02	G/C3
DGF2	Deep 20 kHz Gain Factor	1.03796	
DPH2	Deep 20 kHz Phase Shift	0.0287995	DEG
DRE2	Deep Real 20 kHz Sonde Error Correction	12.4119	MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843	MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	66.4513	MM/M
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
GCSE	Generalized Caliper Selection	LCAL	
GCSEV	Average Angular Deviation of Borehole from Normal	0	DEG

GDEV	Average Angular Deviation of Borehole from Normal	0.018227	0	DEG
GGRD	Geothermal Gradient			DC/M
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW		
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW		
HABK	HNGS Borehole Potassium Running Average	0		
HALF	HNGS Alpha Filter Length	60		IN
HATIM	HNGS Marquardt Accumulation Time	600		S
HCRB	HNGS Apply Borehole Potassium Correction	NONE		
HMWM	Mud Weighting Material	NATU		
HNPE	HNGS Processing Enable	YES		
HSLV	HNGS Borehole Fluid Excluder Sleeve Status	NO		
HSVN	HNGS Spectral Standards Version Number	9.86048e-032		
IFRS	DIT-E Induction Frequency Selector	20		
IPHA	DIT-E Phasor Processing Mode	ALL		
IPRO	DIT-E Induction Processing Selector	PHASOR		
ITEN	DIT-E Temperature Enable	ENABLE		
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL		
MGF2	Medium 20 kHz Gain Factor	1		
MPH2	Medium 20 kHz Phase Shift	0		DEG
MRE2	Medium Real 20 kHz Sonde Error Correction	11.6535		MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250		MM/M
MXE2	Medium Quad 20 kHz Sonde Error Correction	119.446		MM/M
RDF1_START	HNGS Detector 1 RDF Constant	0		
RDF2_START	HNGS Detector 2 RDF Constant	0		
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3		CPS
S1NA	HNGS Detector 1 Calibration Sodium Count Rate	24.0706		CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.984113		
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3		CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	24.4515		CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.982439		
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0		
SFCR	SFL Channel Ratio	1000		
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES		
SHT	Surface Hole Temperature	20		DEGC
TD	Total Depth	3774		M
TPOS	Tool Position	ECCE		
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0		
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0		

Format: DITE_LogPhasor Vertical Scale: 1:200 Graphics File Created: 28-Oct-2000 00:47

OP System Version: 9C1-303

MCM

DIT-E	OP91-kp2	DTA-A	OP91-kp2
HLDS	OP91-kp2	NPLC-B	OP91-kp2
APS-BA	OP91-kp2	HNGS-BA	OP91-kp2
DTC-H	OP91-kp2		

Output DLIS Files

DEFAULT	DITE .018	FN:5	PRODUCER	28-Oct-2000 00:47
IPLT_CUST	DITE .018	FN:6	PRODUCER	28-Oct-2000 00:47
DEFAULT_2	DITE .018	FN:7	PRODUCER	28-Oct-2000 00:47

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement							
Master: 21-SEP-2000 2:35 Before: 23-SEP-2000 1:53 After: 28-OCT-2000 4:39							
SS Total Countrate Bkg	1645	1433	1427	1422	-5.486	80.00	CPS
SS HV Measured Bkg	1100	1062	1060	1066	5.999	80.00	V
SS Cs Centroid Bkg	661.0	661.3	661.2	661.3	0.08392	1.500	KEV
SS Cs Resolution Bkg	9.000	8.578	8.626	8.588	-0.03850	1.800	%
LS Total Countrate Bkg	1645	1457	1459	1454	-5.162	80.00	CPS
LS HV Measured Bkg	1100	1181	1180	1184	3.782	80.00	V
LS Cs Centroid Bkg	661.0	661.2	661.1	661.1	-0.01703	1.500	KEV
LS Cs Resolution Bkg	9.000	8.815	8.870	8.918	0.04801	1.800	%
Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration							
Before: 23-SEP-2000 3:42							
HLDS Caliper Small Ring	3.500	N/A	2.810	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	18.00	N/A	19.56	N/A	N/A	N/A	IN

Accelerator-Porosity Tool Wellsite Calibration - Detector Background							
Master: 20-AUG-2000 10:04 Before: 28-OCT-2000 0:11 After: 28-OCT-2000 4:39							
Near Det Bkg Cntrate	30.00	33.73	33.13	31.77	-1.364	N/A	CPS
Far Det Bkg Cntrate	30.00	34.35	33.29	31.81	-1.480	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	28.01	28.66	29.76	1.104	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	30.95	29.14	30.00	0.8555	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	31.48	31.22	32.76	1.540	N/A	CPS
Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios							
Master: 20-AUG-2000 10:04							
Near/Far Calibration Ratio	0.9250	0.8969	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.064	N/A	N/A	N/A	N/A	
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check							
Master: 27-AUG-2000 0:26 Before: 23-SEP-2000 1:56 After: 28-OCT-2000 4:46							
Na 511 Peak Loc	40.00	40.55	40.62	40.58	-0.03954	1.000	
Na 511 Peak Res	15.50	16.62	17.28	16.94	-0.3336	2.000	%
High Voltage	1150	1101	1102	1106	4.184	30.00	V
Na 1785 Peak Loc	142.6	145.7	145.7	145.4	-0.3465	7.000	
Na 1785 Peak Res	8.500	8.935	10.19	9.757	-0.4318	2.000	%
Temperature	15.50	28.36	38.13	33.92	-4.218	N/A	DEGC
Na Count Rate	45.00	24.07	24.44	23.30	-1.135	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check							
Master: 27-AUG-2000 0:26 Before: 23-SEP-2000 1:56 After: 28-OCT-2000 4:46							
Na 511 Peak Loc	40.00	40.56	40.50	40.41	-0.08319	1.000	
Na 511 Peak Res	15.50	14.29	16.30	15.51	-0.7846	2.000	%
High Voltage	1150	1190	1192	1196	4.192	30.00	V
Na 1785 Peak Loc	142.6	144.9	144.5	145.2	0.7741	7.000	
Na 1785 Peak Res	8.500	8.609	9.914	8.401	-1.513	2.000	%
Temperature	15.50	27.48	37.24	33.84	-3.399	N/A	DEGC
Na Count Rate	45.00	24.45	24.80	23.37	-1.424	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2							
Master: 27-AUG-2000 0:26 Before: 23-SEP-2000 1:56 After: 28-OCT-2000 4:46							
Coincidence Count Rate Ratio	1.000	0.9875	0.9866	0.9982	0.01162	0.05000	

Accelerator-Porosity Tool - Detector Plateau Settings :

Near Detector Plateau Setting 1751 V
Far Detector Plateau Setting 2076 V
Array Detector Plateau Setting 1984 V








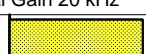


Dual Induction - E / Equipment Identification

Primary Equipment:
Dual Induction Sonde DIS - HB 433
Dual Induction Cartridge DIC - EB 398

Auxiliary Equipment:
Mass Isolated Housing MIH - ZA

Dual Induction - E Wellsite Calibration												
Induction Electronics (10 kHz)												
Phase	ID Elect Real Offset 10 kHz	MM/M	Value	Phase	ID Elect Real Gain 10 kHz	Value	Phase	ID Elect Phase 10 kHz	DEG	Value		
Before			64.88	Before		0.9580	Before			10.59		
	-300.0 (Minimum)	0 (Nominal)	300.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		-10.00 (Minimum)	0 (Nominal)	10.00 (Maximum)	
Phase	ID Elect Quad Offset 10 kHz	MM/M	Value	Phase	ID Elect Quad Gain 10 kHz	Value	Phase	IM Elect Phase 10 kHz	DEG	Value		
Before			17.72	Before		0.9316	Before			12.45		
	-300.0 (Minimum)	0 (Nominal)	300.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		-10.00 (Minimum)	0 (Nominal)	10.00 (Maximum)	
Phase	IM Elect Real Offset 10 kHz	MM/M	Value	Phase	IM Elect Real Gain 10 kHz	Value						
Before			46.52	Before		1.131						
	-550.0 (Minimum)	0 (Nominal)	550.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)					
Phase	IM Elect Quad Offset 10 kHz	MM/M	Value	Phase	IM Elect Quad Gain 10 kHz	Value						
Before			45.73	Before		1.131						
	-550.0 (Minimum)	0 (Nominal)	550.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)					





Before: 28-OCT-2000 0:22

Dual Induction - E Wellsite Calibration												
Induction Electronics (20 kHz)												
Phase	ID Elect Real Offset 20 kHz	MM/M	Value	Phase	ID Elect Real Gain 20 kHz	Value	Phase	ID Elect Phase 20 kHz DEG	Value			
Before			25.46	Before		0.9635	Before		8.654			
	-125.0 (Minimum)	0 (Nominal)	125.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		-15.00 (Minimum)	0 (Nominal)	15.00 (Maximum)	
Phase	ID Elect Quad Offset 20 kHz	MM/M	Value	Phase	ID Elect Quad Gain 20 kHz	Value	Phase	IM Elect Phase 20 kHz DEG	Value			
Before			6.909	Before		0.9368	Before		9.172			
	-125.0 (Minimum)	0 (Nominal)	125.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		-15.00 (Minimum)	0 (Nominal)	15.00 (Maximum)	
Phase	IM Elect Real Offset 20 kHz	MM/M	Value	Phase	IM Elect Real Gain 20 kHz	Value						
Before			18.86	Before		1.175						
	-225.0 (Minimum)	0 (Nominal)	225.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)						1.200 (Maximum)
Phase	IM Elect Quad Offset 20 kHz	MM/M	Value	Phase	IM Elect Quad Gain 20 kHz	Value						
Before			18.73	Before		1.175						
	-225.0 (Minimum)	0 (Nominal)	225.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)					
Before: 28-OCT-2000 0:23												






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

Dual Induction - E Wellsite Calibration											
Induction Electronics (40 kHz)											
Phase	ID Elect Real Offset 40 kHz	MM/M	Value	Phase	ID Elect Real Gain 40 kHz	Value	Phase	ID Elect Phase 40 kHz DEG	Value		
Before	<div><div></div></div>		16.63	Before	<div><div></div></div>	0.9385	Before	<div>EXCEEDS LIMIT</div>	25.54		
	-85.00 (Minimum)	0 (Nominal)	85.00 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		-20.00 (Minimum)	0 (Nominal)	20.00 (Maximum)
Phase	ID Elect Quad Offset 40 kHz	MM/M	Value	Phase	ID Elect Quad Gain 40 kHz	Value	Phase	IM Elect Phase 40 kHz DEG	Value		
Before	<div><div></div></div>		4.482	Before	<div><div></div></div>	0.9115	Before	<div>EXCEEDS LIMIT</div>	23.48		
	-85.00 (Minimum)	0 (Nominal)	85.00 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		-20.00 (Minimum)	0 (Nominal)	20.00 (Maximum)
Phase	IM Elect Real Offset 40 kHz	MM/M	Value	Phase	IM Elect Real Gain 40 kHz	Value					
Before	<div><div></div></div>		11.99	Before	<div><div></div></div>	1.159					
	-130.0 (Minimum)	0 (Nominal)	130.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)				1.200 (Maximum)	
Phase	IM Elect Quad Offset 40 kHz	MM/M	Value	Phase	IM Elect Quad Gain 40 kHz	Value					
Before	<div><div></div></div>		11.95	Before	<div><div></div></div>	1.160					
	-130.0 (Minimum)	0 (Nominal)	130.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)				
Before: 28-OCT-2000 0:25											

Before: 28-OCT-2000 0:25

Dual Induction - E Wellsite Calibration							
SFL Electronics							
Phase	SFL Voltage Offset MV		Value	Phase	SFL Voltage Gain		Value
Before			-0.1398	Before			0.9770
	-15.00 (Minimum)	0 (Nominal)	15.00 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
Phase	SFL Current Offset MA		Value	Phase	SFL Current Gain		Value
Before			0.07965	Before			0.9934
	-0.6000 (Minimum)	0 (Nominal)	0.6000 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
Before: 28-OCT-2000 0:25							

Before: 28-OCT-2000 0:25

Dual Induction - E Wellsite Calibration									
Electronics Calibration Changes Files/Depth Intervals: 18: 3767.3 - 3414.5 19: 2898.6 - 2720.9									
Phase	ID (R > 27 OHM-M) MM/M	Value	Phase	ID (R < 27 OHM-M) %	Value	Phase	SFL (R < 1 OHM-M) OHMM	Value	
After		0.3394	After		0.0002172	After		0.0004349	
	0 (Minimum)	0 (Nominal)	0.7500 (Maximum)	0 (Minimum)	0 (Nominal)	2.000 (Maximum)	0 (Minimum)	0 (Nominal)	0.02000 (Maximum)
Phase	IM (R > 27 OHM-M) MM/M	Value	Phase	IM (R < 27 OHM-M) %	Value				
After		0.1648	After		0.0003373				
	0 (Minimum)	0 (Nominal)	0.7500 (Maximum)	0 (Minimum)	0 (Nominal)				
Phase	SFL (R > 27 OHM-M) MM/M	Value	Phase	SFL (R < 27 OHM-M) %	Value				

After		0	After		0.0002618
0 (Minimum)	0 (Nominal)	0.7500 (Maximum)	0 (Minimum)	0 (Nominal)	2.000 (Maximum)
After: 28-OCT-2000 3:26					



























































Hostile Litho-Density Sonde / Equipment Identification



Primary Equipment:

Hostile Litho Density Sonde	HLDS - D	35
Hostile Litho Density High Voltage	HLDV - D	35
Gamma Source Radioactive	GSR - Z	1846

Auxiliary Equipment:

Hostile Litho Density Pad	HLDP - C	12
Hostile Litho Density High Voltage Housi	HEH - H	35

Hostile Litho-Density Sonde Wellsite Calibration														
Background Measurement														
Phase	SS Total Countrate Bkg CPS			Value	Phase	SS HV Measured Bkg V			Value	Phase	SS PSC DAC Value Bkg			Value
Master				1433	Master				1062	Master				16760
Before				1427	Before				1060	Before				17100
After				1422	After				1066	After				16810
1000 (Minimum)1645 (Nominal)2290 (Maximum)					800.0 (Minimum)1100 (Nominal)1400 (Maximum)					14100 (Minimum)16000 (Nominal)20000 (Maximum)				
Phase	SS Cs Centroid Bkg KEV			Value	Phase	SS Cs Resolution Bkg %			Value	Phase	LS Total Countrate Bkg CPS			Value
Master				661.3	Master				8.578	Master				1457
Before				661.2	Before				8.626	Before				1459
After				661.3	After				8.588	After				1454
656.0 (Minimum)661.0 (Nominal)666.0 (Maximum)					7.000 (Minimum)9.000 (Nominal)11.00 (Maximum)					1000 (Minimum)1645 (Nominal)2290 (Maximum)				
Phase	LS HV Measured Bkg V			Value	Phase	LS PSC DAC Value Bkg			Value	Phase	LS Cs Centroid Bkg KEV			Value
Master				1181	Master				18320	Master				661.2
Before				1180	Before				18710	Before				661.1
After				1184	After				18370	After				661.1
800.0 (Minimum)1100 (Nominal)1400 (Maximum)					14100 (Minimum)16000 (Nominal)20000 (Maximum)					656.0 (Minimum)661.0 (Nominal)666.0 (Maximum)				
Phase	LS Cs Resolution Bkg %			Value	Phase	LSW1 Background CPS			Value	Phase	LSW2 Background CPS			Value
Master				8.815	Master				88.11	Master				80.49
Before				8.870	Before				88.47	Before				79.77
After				8.918	After				87.00	After				79.96
7.000 (Minimum)9.000 (Nominal)11.00 (Maximum)					55.00 (Minimum)100.0 (Nominal)150.0 (Maximum)					50.00 (Minimum)100.0 (Nominal)140.0 (Maximum)				
Phase	LSW3 Background CPS			Value	Phase	LSW4 Background CPS			Value	Phase	LSW5 Background CPS			Value
Master				179.9	Master				217.8	Master				500.3
Before				178.5	Before				217.3	Before				501.0
After				180.3	After				217.6	After				496.6
110.0 (Minimum)200.0 (Nominal)290.0 (Maximum)					140.0 (Minimum)250.0 (Nominal)360.0 (Maximum)					330.0 (Minimum)600.0 (Nominal)830.0 (Maximum)				
Phase	SSW1 Background CPS			Value	Phase	SSW2 Background CPS			Value	Phase	SSW3 Background CPS			Value
Master				87.70	Master				155.5	Master				417.1
Before				87.77	Before				154.7	Before				416.4
After				87.06	After				154.7	After				414.8
55.00 (Minimum)100.0 (Nominal)150.0 (Maximum)					100.0 (Minimum)200.0 (Nominal)260.0 (Maximum)					280.0 (Minimum)500.0 (Nominal)700.0 (Maximum)				
Phase	SSW4 Background CPS			Value	Phase	SSW5 Background CPS			Value					
Master				222.8	Master				161.8					
Before				222.4	Before				161.1					
After				222.4	After				161.1					

After		221.1	After		159.4
150.0 (Minimum)	270.0 (Nominal)	380.0 (Maximum)	110.0 (Minimum)	200.0 (Nominal)	270.0 (Maximum)
Master: 21-SEP-2000 2:35			Before: 23-SEP-2000 1:53		After: 28-OCT-2000 4:39

Nuclear Porosity Lithology Cartridge - B / Equipment Identification
















Primary Equipment:		
NPLC Cartridge	NPLC - B	79
Auxiliary Equipment:		
NPLC Housing	NPH - B	82

Accelerator-Porosity Tool / Equipment Identification

Primary Equipment:		
Accelerator-Porosity Sonde	APS - BA	22
APS Minitron	MNTR - F	4185
Auxiliary Equipment:		
Accelerator-Porosity Housing	APH - AC	22
APS Calibration Water Tank	SFT - 178	4722
APS Aluminium Calibrator Sleeve	SFT - 281	24



Accelerator-Porosity Tool Wellsite Calibration

Detector Background

Phase	Near Det Bkg Cntrate CPS	Value	Phase	Far Det Bkg Cntrate CPS	Value	Phase	Array-1 Det Bkg Cntrate CPS	Value
Master		33.73	Master		34.35	Master		28.01
Before		33.13	Before		33.29	Before		28.66
After		31.77	After		31.81	After		29.76
0 (Minimum)	30.00 (Nominal)	50.00 (Maximum)	0 (Minimum)	30.00 (Nominal)	50.00 (Maximum)	0 (Minimum)	30.00 (Nominal)	50.00 (Maximum)
Phase	Array-2 Det Bkg Cntrate CPS	Value	Phase	Array Therm Det Bkg Cntrate CPS	Value			
Master		30.95	Master		31.48			
Before		29.14	Before		31.22			
After		30.00	After		32.76			
0 (Minimum)	30.00 (Nominal)	50.00 (Maximum)	0 (Minimum)	30.00 (Nominal)	50.00 (Maximum)			
Master: 20-AUG-2000 10:04			Before: 28-OCT-2000 0:11			After: 28-OCT-2000 4:39		

Accelerator-Porosity Tool Wellsite Calibration

Calibration Ratios

Phase	Near/Far Calibration Ratio	Value	Phase	Near/Array Calibration Ratio	Value
Master		0.8969	Master		1.064
0.8000 (Minimum)	0.9250 (Nominal)	1.050 (Maximum)	0.9000 (Minimum)	1.030 (Nominal)	1.150 (Maximum)







Master: 20-AUG-2000 10:04

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:		
HNGS Sonde	HNGS - BA	27
Auxiliary Equipment:		
HNGS Sonde Housing	HNSH - BA	27
Gamma Source Radioactive	GSR - U	135

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		40.55	Master		16.62	Master		1101
								

Before	<div><div></div></div>	40.62	Before	<div><div></div></div>	17.28	Before	<div><div></div></div>	1102			
After	<div><div></div></div>	40.58	After	<div><div></div></div>	16.94	After	<div><div></div></div>	1106			
37.50 (Minimum)40.00 (Nominal)42.50 (Maximum)			12.00 (Minimum)15.50 (Nominal)19.00 (Maximum)			900.0 (Minimum)1150 (Nominal)1600 (Maximum)					
Phase	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value
Master	<div><div></div></div>		145.7	Master	<div><div></div></div>		8.935	Master	<div><div></div></div>		28.36
Before	<div><div></div></div>		145.7	Before	<div><div></div></div>		10.19	Before	<div><div></div></div>		38.13
After	<div><div></div></div>		145.4	After	<div><div></div></div>		9.757	After	<div><div></div></div>		33.92
135.0 (Minimum)142.6 (Nominal)150.3 (Maximum)			7.000 (Minimum)8.500 (Nominal)11.00 (Maximum)			-28.89 (Minimum)15.50 (Nominal)60.00 (Maximum)					
Phase	Na Count Rate CPS		Value								
Master	<div><div></div></div>		24.07								
Before	<div><div></div></div>		24.44								
After	<div><div></div></div>		23.30								
15.00 (Minimum)45.00 (Nominal)100.0 (Maximum)											
Master: 27-AUG-2000 0:26				Before: 23-SEP-2000 1:56				After: 28-OCT-2000 4:46			

Hostile Natural Gamma Ray Sonde Wellsite Calibration											
Detector 2 Check											
Phase	Na 511 Peak Loc		Value	Phase	Na 511 Peak Res %		Value	Phase	High Voltage V		Value
Master			40.56	Master			14.29	Master			1190
Before			40.50	Before			16.30	Before			1192
After			40.41	After			15.51	After			1196
37.50 (Minimum) 40.00 (Nominal) 42.50 (Maximum)				12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)				900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)			
Phase	Na 1785 Peak Loc		Value	Phase	Na 1785 Peak Res %		Value	Phase	Temperature DEGC		Value
Master			144.9	Master			8.609	Master			27.48
Before			144.5	Before			9.914	Before			37.24
After			145.2	After			8.401	After			33.84
135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)				7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)				-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)			
Phase	Na Count Rate CPS		Value								
Master			24.45								
Before			24.80								
After			23.37								
15.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)											
Master: 27-AUG-2000 0:26				Before: 23-SEP-2000 1:56				After: 28-OCT-2000 4:46			

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9875
Before		0.9866
After		0.9982
0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)		
Master: 27-AUG-2000 0:26		
Before: 23-SEP-2000 1:56		
After: 28-OCT-2000 4:46		

COMPANY: WELL: FIELD: COUNTY: Ocean:	Lamont Doherty ODP Leg 192, Site 1186A Ontong Java Plateau Joides Resolution Pacific	BOTTOM LOG INTERVAL	3764.5 m
		SCHLUMBERGER DEPTH	3766 m
		DEPTH DRILLER	3774 m
		KELLY BUSHING	11.3 m
		DRILL FLOOR	11 m
		GROUND LEVEL	-2740 m
<div>Schlumberger</div>		Phasor Induction/Natural Gamma Ray	