COMPANY: Lamont Doherty

WELL: ODP Leg 189, Site 1172D (ETP-2A)

FIELD: East Tasmania

COUNTY: Offshore STATE: Pacific Ocean

COUNTY: Offshore
Field: East Tasmania
Location:
Well: ODP Leg 189, Site 1172D (ETP-2
Company: Lamont Doherty

Schlumberger

Density/APS Porosity
Natural Gamma Ray

LOCATION

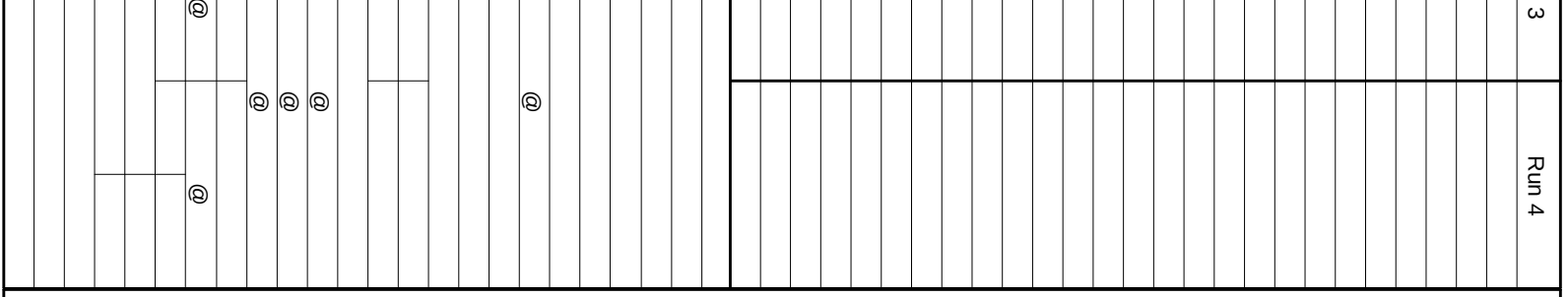
Elev.: K.B. 11.2 m
G.L. 2621.7 m
D.F. 10.9 m

Permanent Datum: MSL — Elev.: 0 ft
Log Measured From: RKB — 11.2 m above Perm. Datum
Drilling Measured From: RKB

API Serial No.	LATTITUDE:	LONGITUDE:	RIG:
	43* 57.5545' S	149* 55.7169' E	JOIDES Resolution

Logging Date			2-MAY-2000								
Run Number			One								
Depth Driller			3399.85 m								
Schlumberger Depth			3395 m								
Bottom Log Interval			3380 m								
Top Log Interval			2631 m								
Casing Driller Size @ Depth			0.000 in	@	2783 m		@				
Casing Schlumberger			2782 m								
Bit Size			9.875 in								
Type Fluid In Hole			Salt Water Base								
MUD	Density	Viscosity	8.51234 lbm/gal								
	Fluid Loss	PH									
	Source Of Sample		Salt water								
RM @ Measured Temperature			0.220 ohm.m	@	58 degF		@				
RMF @ Measured Temperature				@			@				
RMC @ Measured Temperature				@			@				
Source RMF	RMC										
RM @ MRT	RMF @ MRT		0.147 @ 90		@ 90		@		@		
Maximum Recorded Temperatures			90 degF								
Circulation Stopped	Time		2-MAY-2000		10:00						
Logger On Bottom	Time		2-MAY-2000		16:15						
Unit Number	Location		99	Houston OS							
Recorded By			Kerry M. Swain								
Witnessed By			Patrick Fothergill, Ulysses S. Ninnemann								

	Run 1	Run 2	Run
Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth	@		
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
MUD Density / Viscosity			
MUD Fluid Loss / PH			
MUD Source Of Sample			
RM @ Measured Temperature	@		
RMF @ Measured Temperature	@		
RMC @ Measured Temperature	@		
Source RMF / RMC			
RM @ MRT / RMF @ MRT	@	@	
Maximum Recorded Temperatures			
Circulation Stopped / Time			
Logger On Bottom / Time			
Unit Number / Location			
Recorded By			
Witnessed By			



ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO CLAUSE 4 OF OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

OTHER SERVICES1	OTHER SERVICES2
OS1: DITE/HNGS	OS1:
OS2: GHMT/DSI	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Hole cored with RCB.	
Sea Floor at 2631 mbrf.	
Log presented in meters below rig floor.	
Lamont Temperature Tool (TAP) run on DITE/HLDS/APS/HNGS only.	
Wireline Heave Compensator used on all descents. Wireline heave compensator	
went out of range due to heavy heave conditions at 3339-3295, 3278-3257,	
3066-2988, 2983-2965, 2918-2895, 2847-end of log.	
Sepiolite mud placed in the hole before logging.	
Drillers TD-3399.85 mbrf, Loggers TD-3395 mbrf, Drill Pipe Logger-2782 mbrf.	
APS near detector background before measurement out of tolerance due to extreme low temperature near sea floor.	
HLDS skid wear measurement out of tolerance but is not used in master calibration. HNGS background low but does not affect calibration.	
The caliper wear plate broke while logging due to heavy heave conditions.	

RUN 1		RUN 2	
SERVICE ORDER #:		SERVICE ORDER #:	
PROGRAM VERSION:	9C1-303	PROGRAM VERSION:	
FLUID LEVEL:		FLUID LEVEL:	

LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

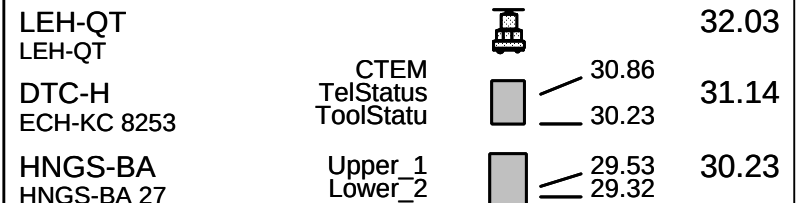
EQUIPMENT DESCRIPTION

RUN 1 RUN 2

SURFACE EQUIPMENT

SFT-281 24
SFT-178 4722
GSR-U 135
WITM (DTS)-A

DOWNHOLE EQUIPMENT



HNSH-BA 27

ILE-D 27.73
ILE-D 25

Status
Minitron
Near TD
Near Arr
Near
Far Arr
Far
Far TD

APS-BA 25.29
APS-BA 22
APH-AC 22
MNTR-F 4185

22.85
22.77
22.64
22.54

NPLC-B 21.35
NPLC-B 79
NPH-B 82

Status 20.12

HLDS 18.90
GSR-Z 1846
HLDV-D 35
HLDS-D 35
HEH-H 35
HLDP-C 12

Caliper
SS LS Status 14.85

DTA-A 14.08
ECH-KE 8261

DIT-E RED 12.87
DIC-EB 352
MIH-ZA 342
DIS-HB 355

SP 6.49
Deep Ind 6.24
Aux Meas SFL 5.32
Med Ind 5.17

Status 3.34

AH-TAP 3.34
AH-TAP

DF
Tension HV 0.00

TOOL ZERO

MAXIMUM STRING DIAMETER 3.88 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Output DLIS Files

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DITE_CUST	DITE .012	FN:19	PRODUCER	02-May-2000 15:53	3397.0 M	2612.9 M

OP System Version: 9C1-303

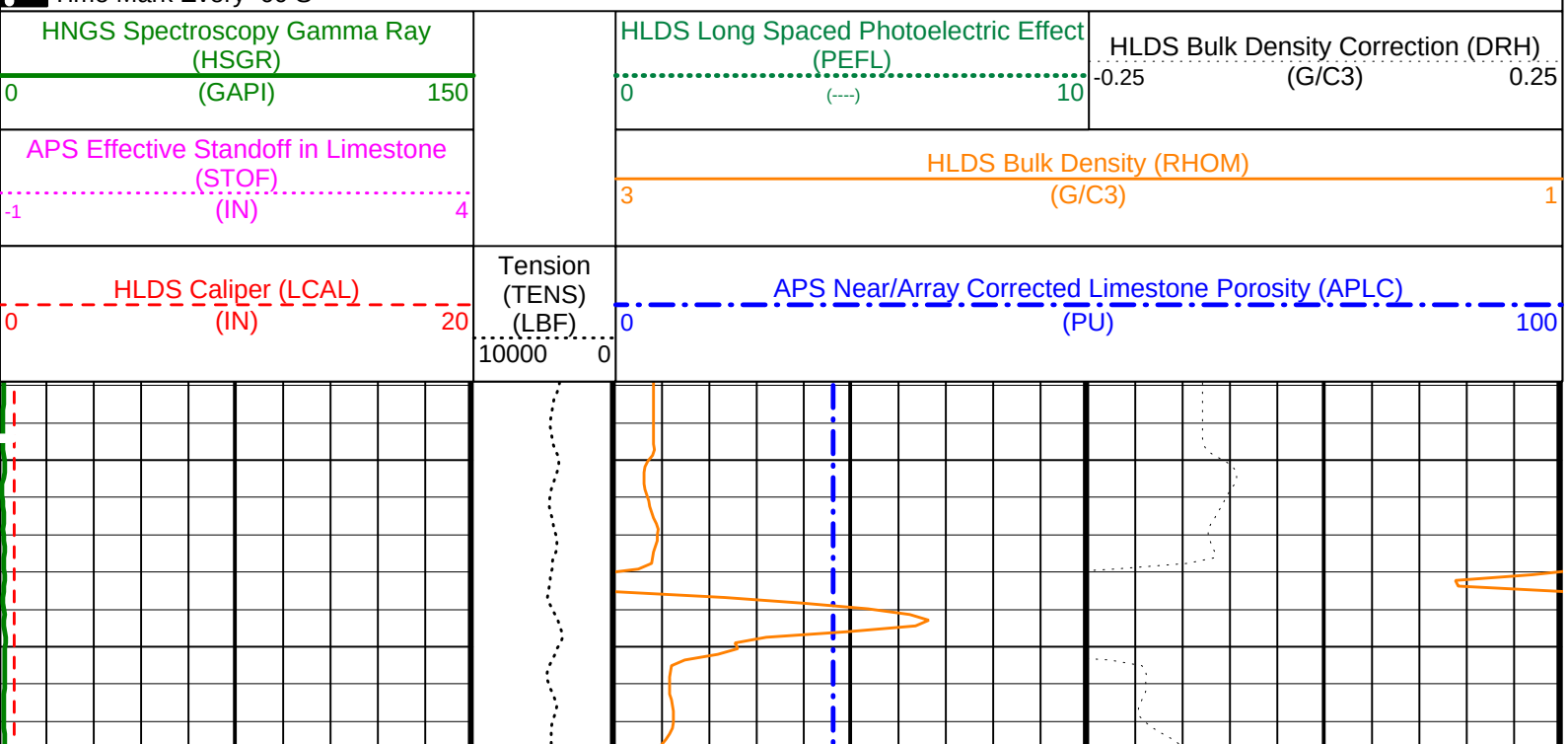
MCM

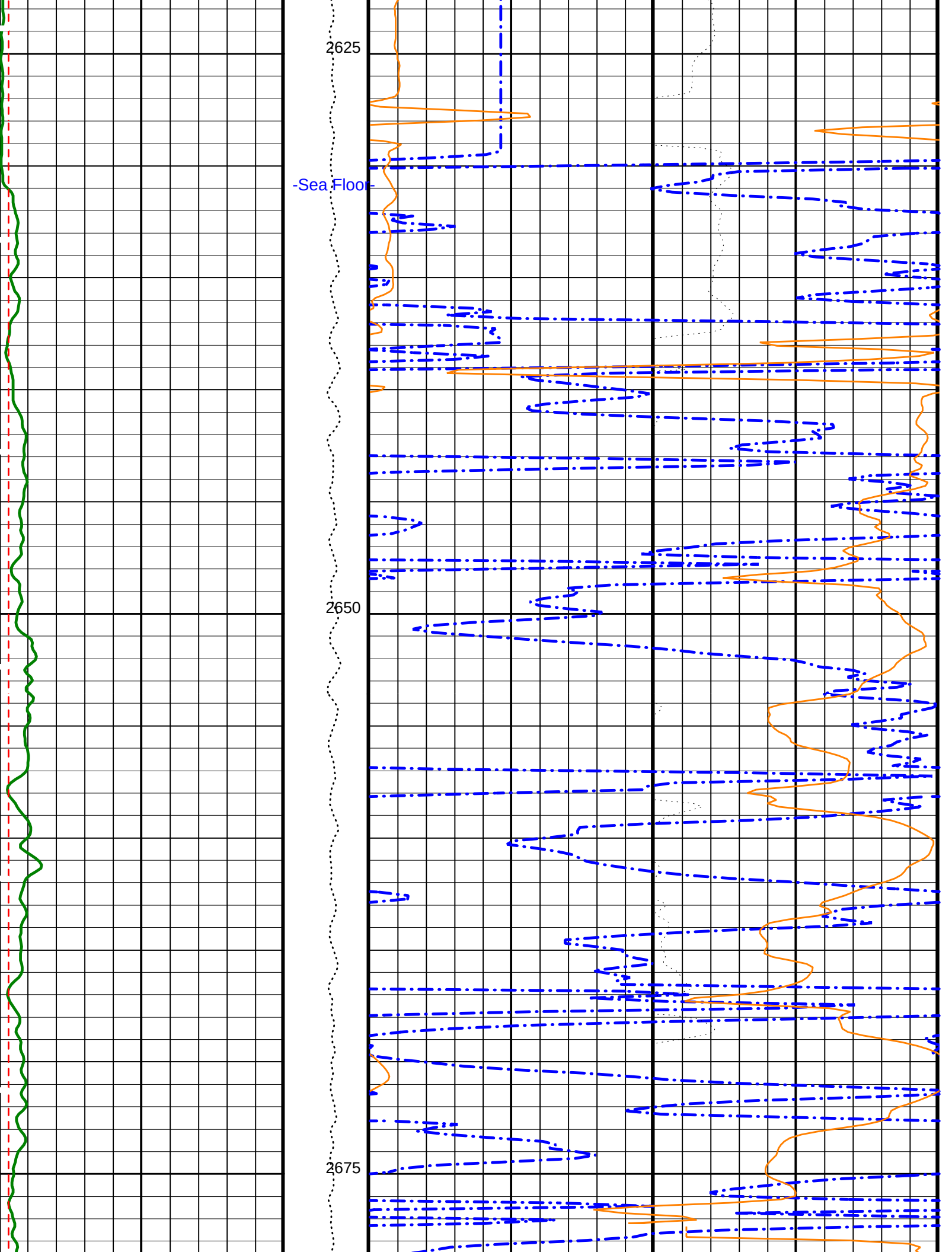
DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

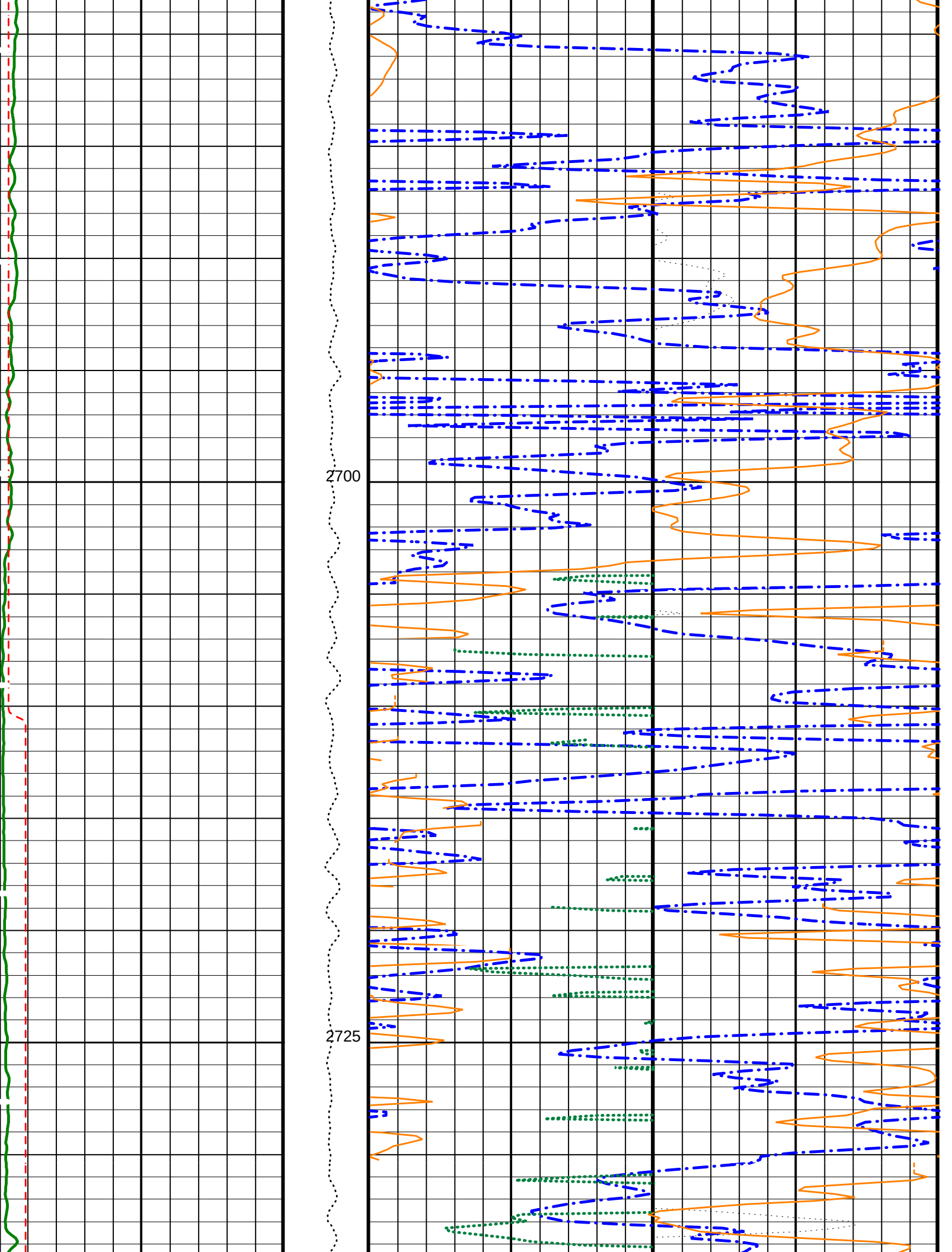
MAIN LOG

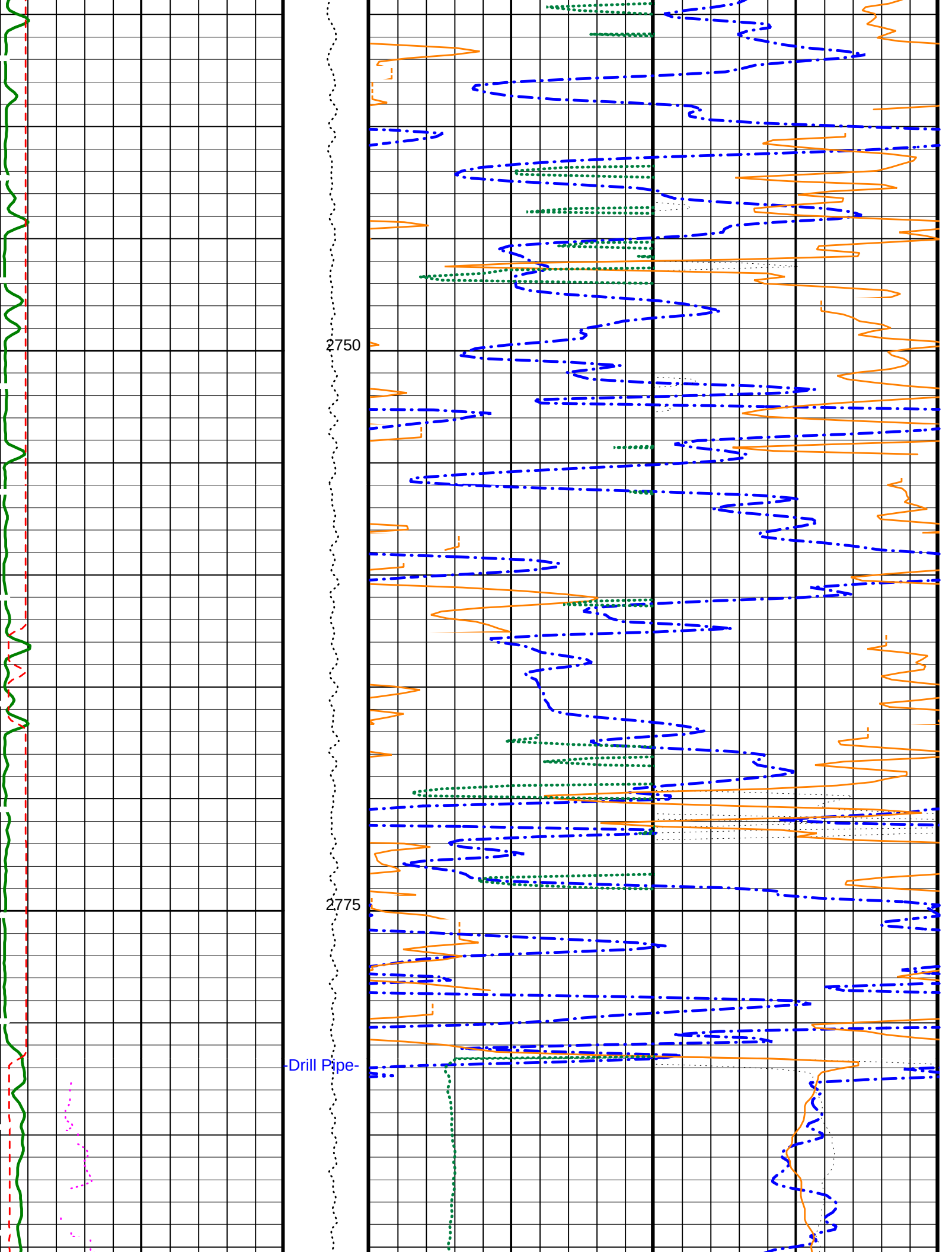
PIP SUMMARY

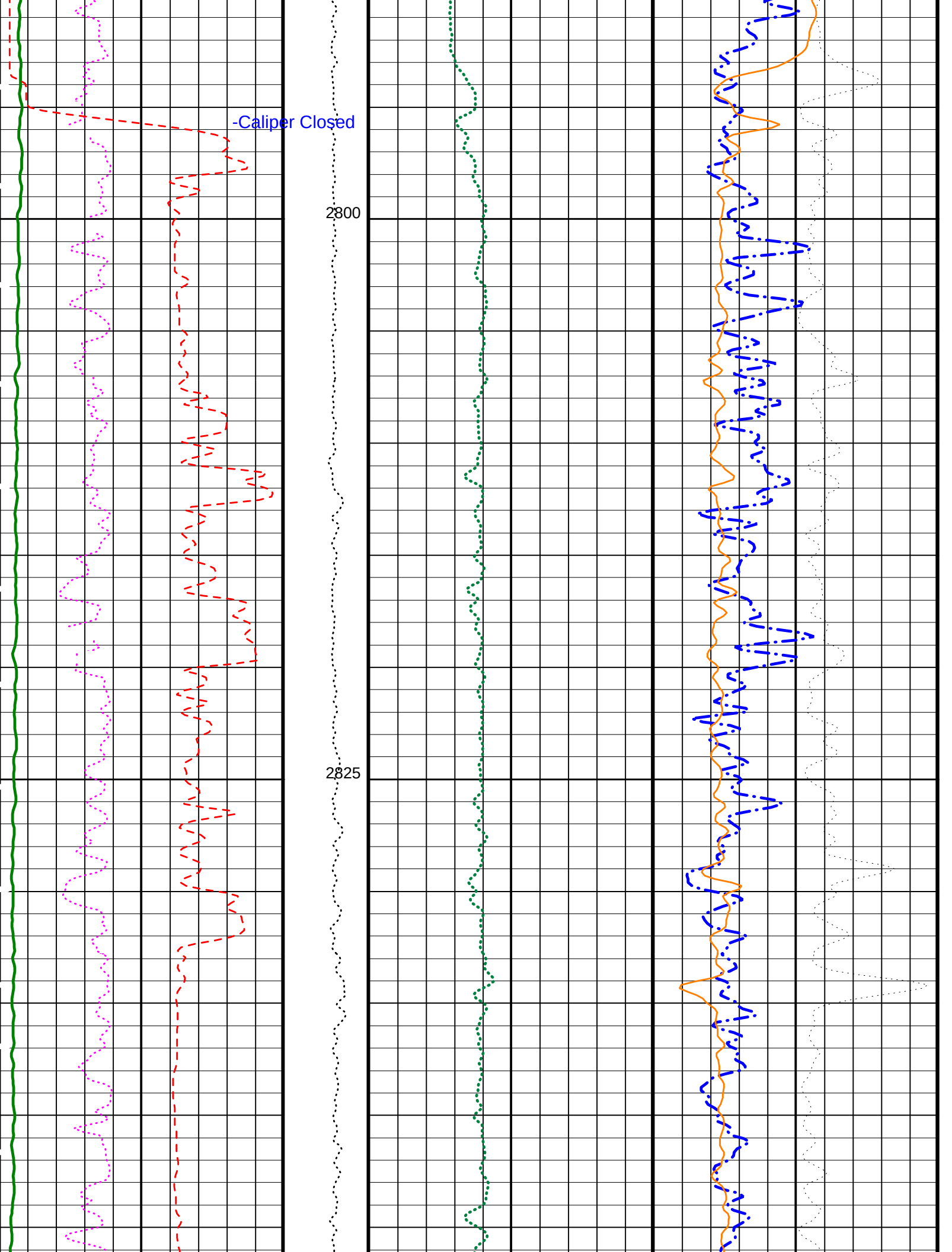
Time Mark Every 60 S

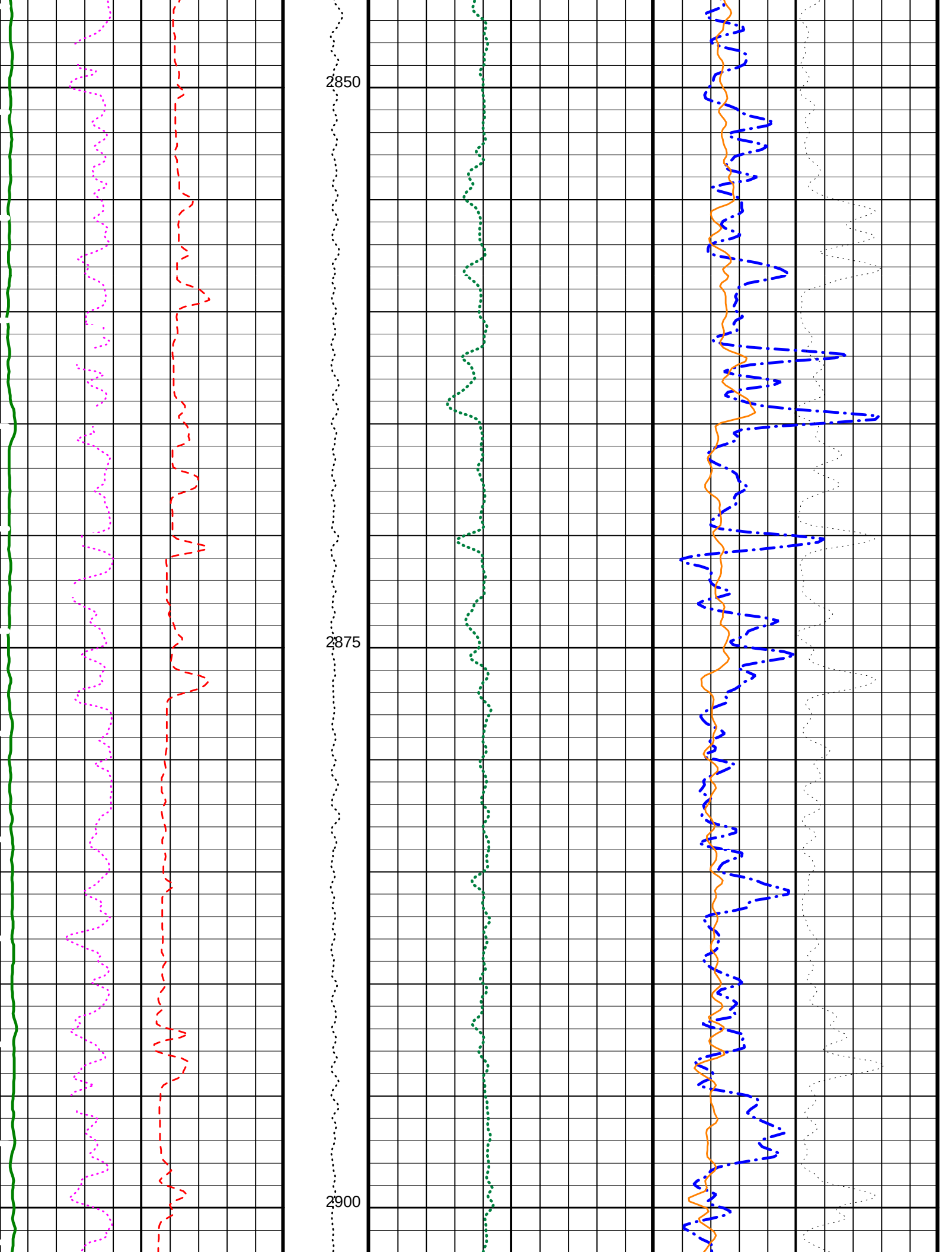



2625
-Sea Floor-
2650
2675


2700
2725


2750
2775
-Drill Pipe-


-Caliper Closed
2800
2825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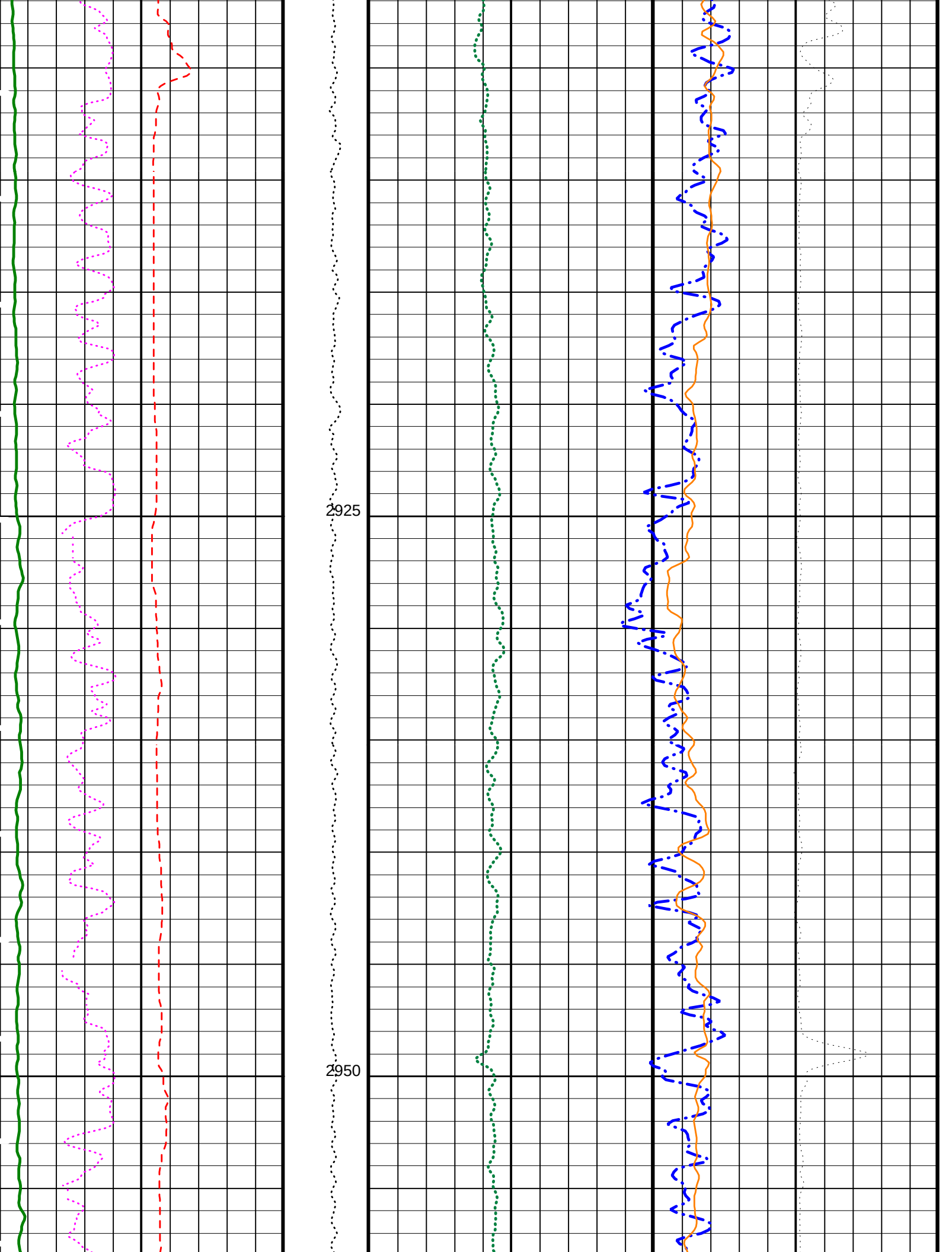
2875
2900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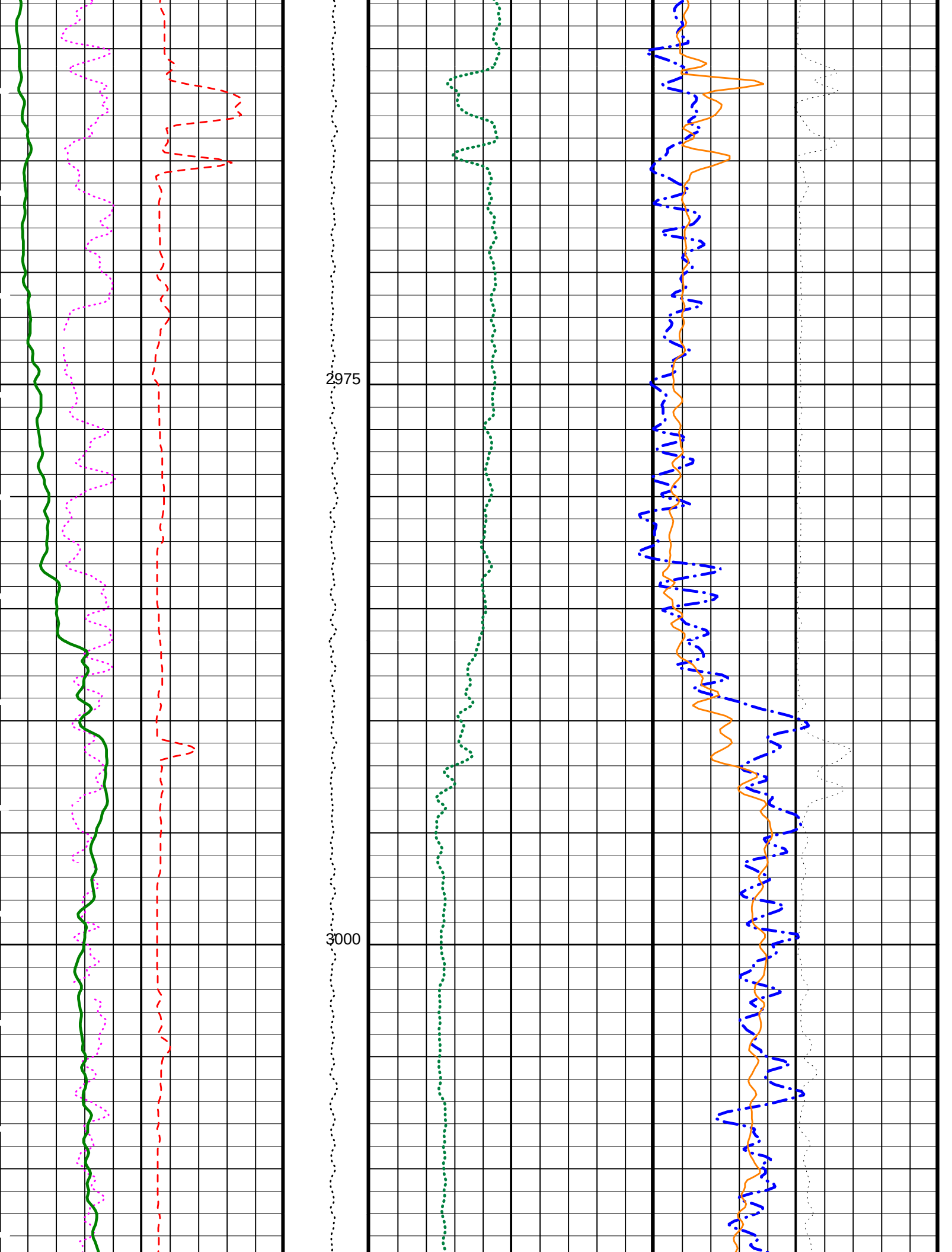
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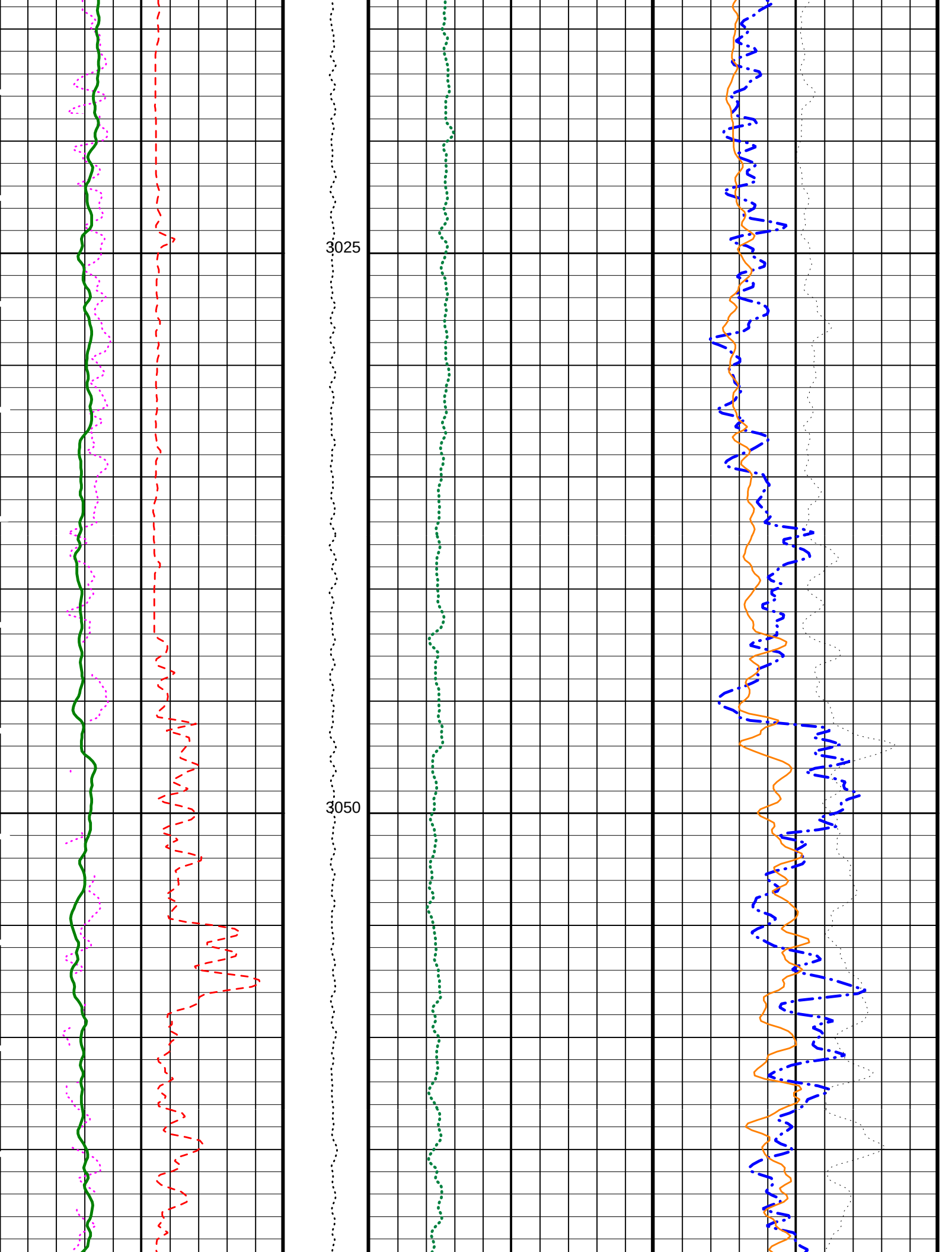
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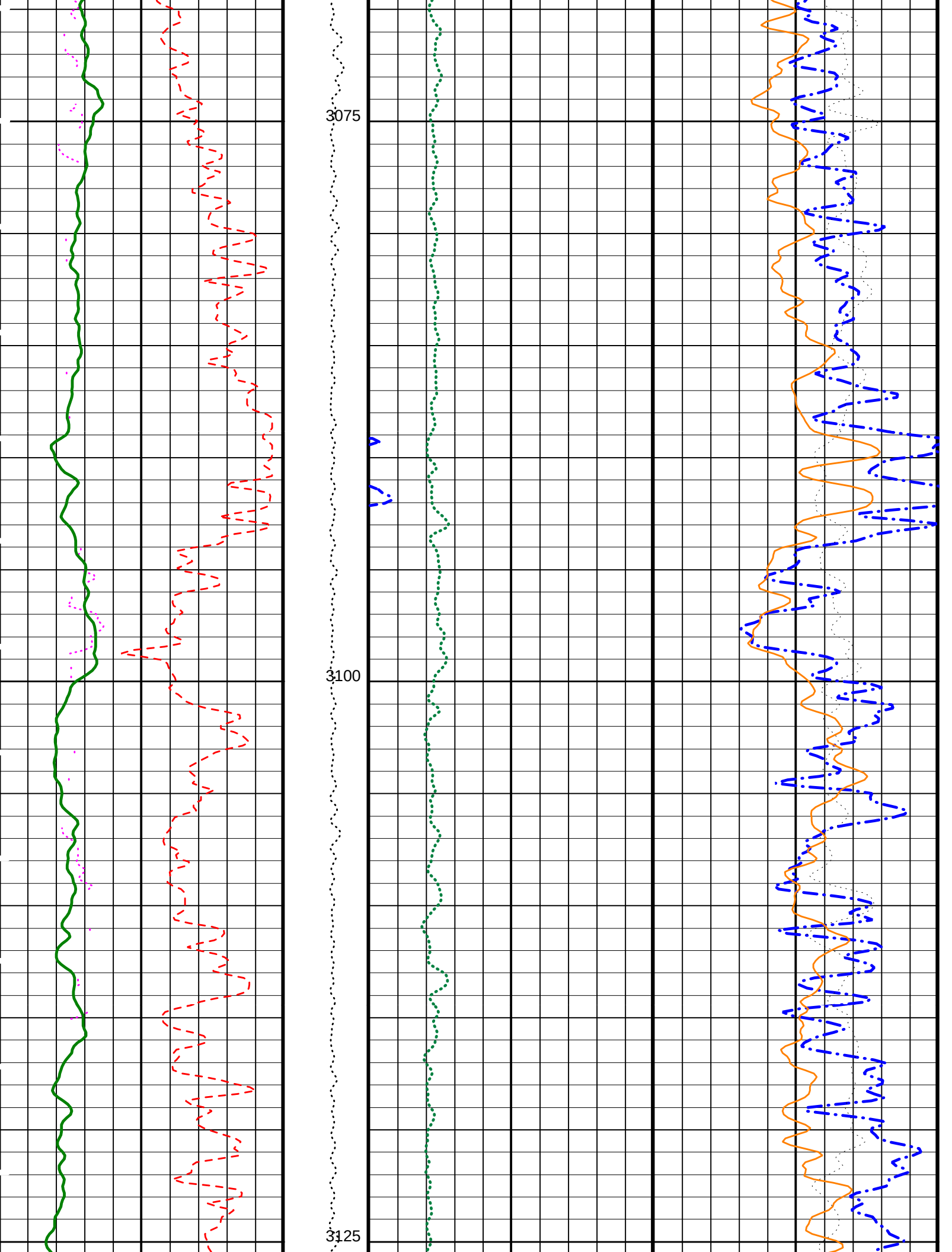
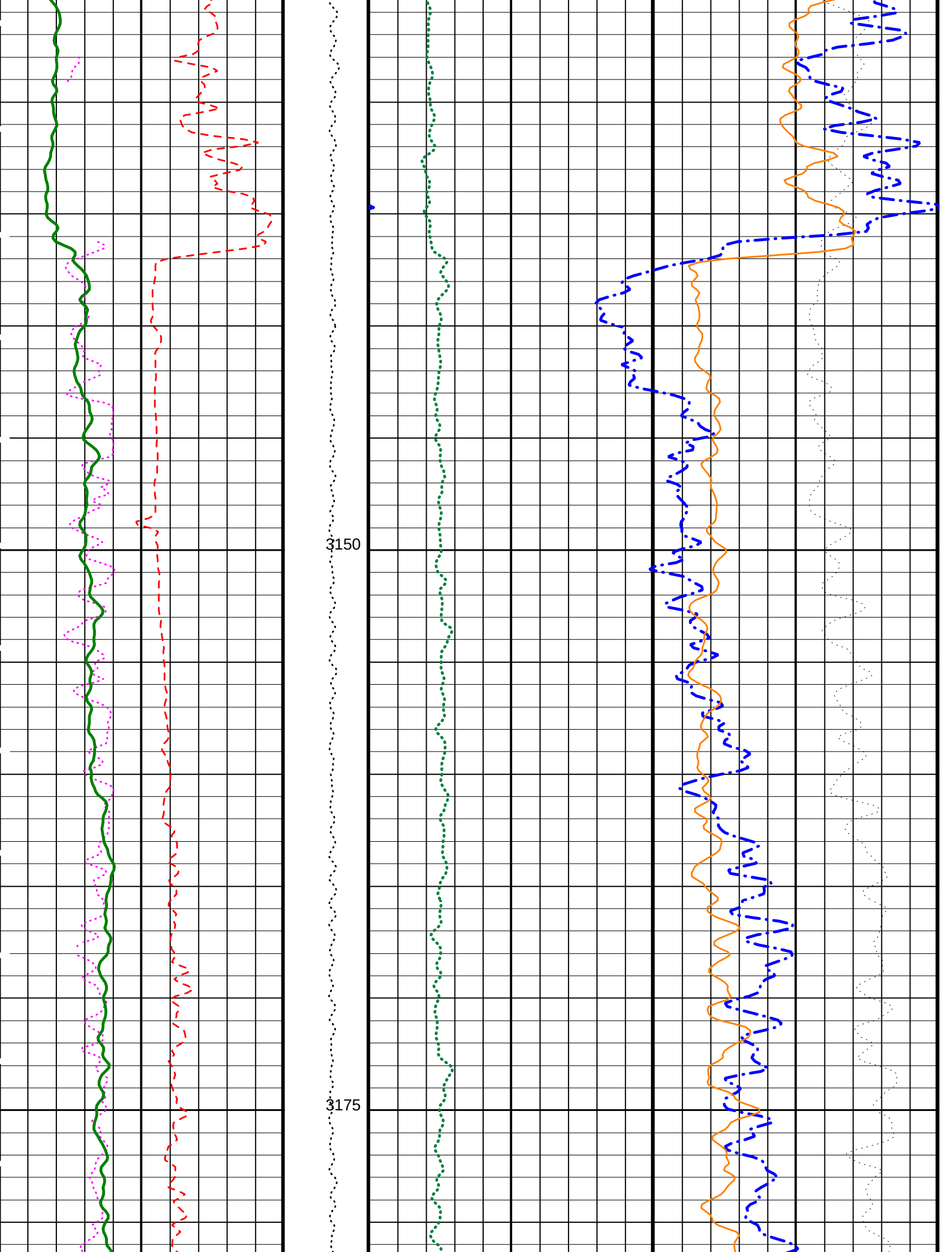
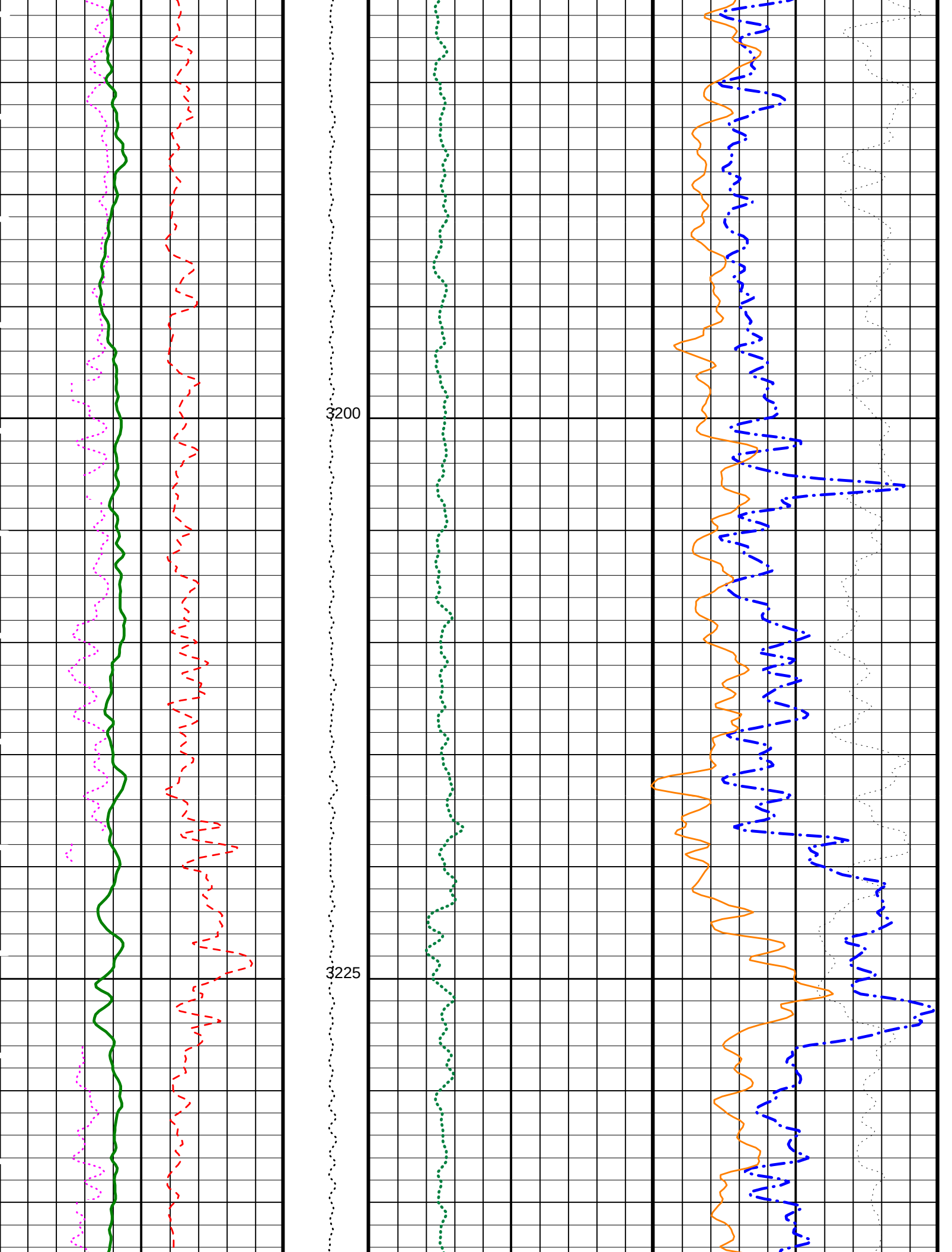
3050


3075
3100
3125


3150
3175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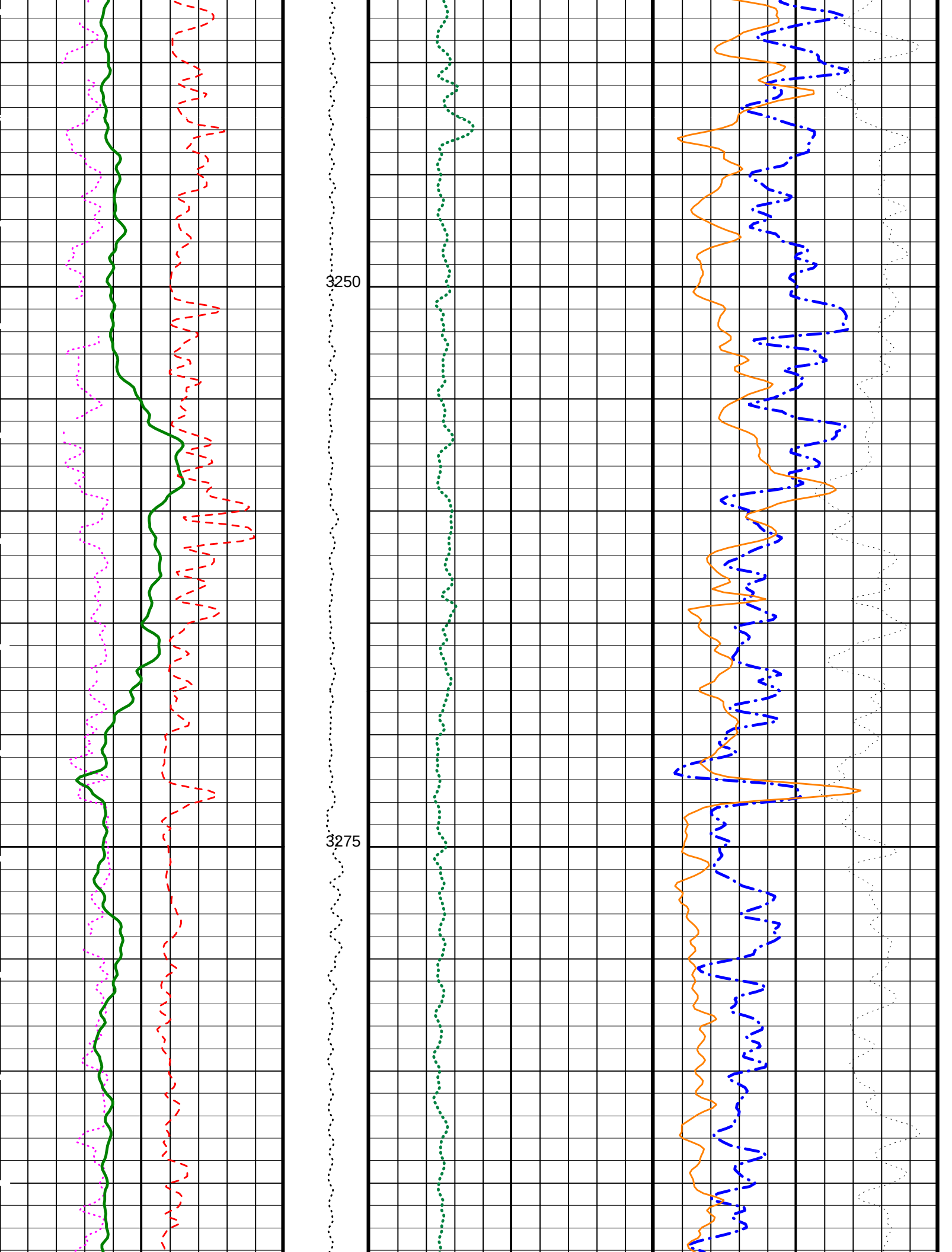
3225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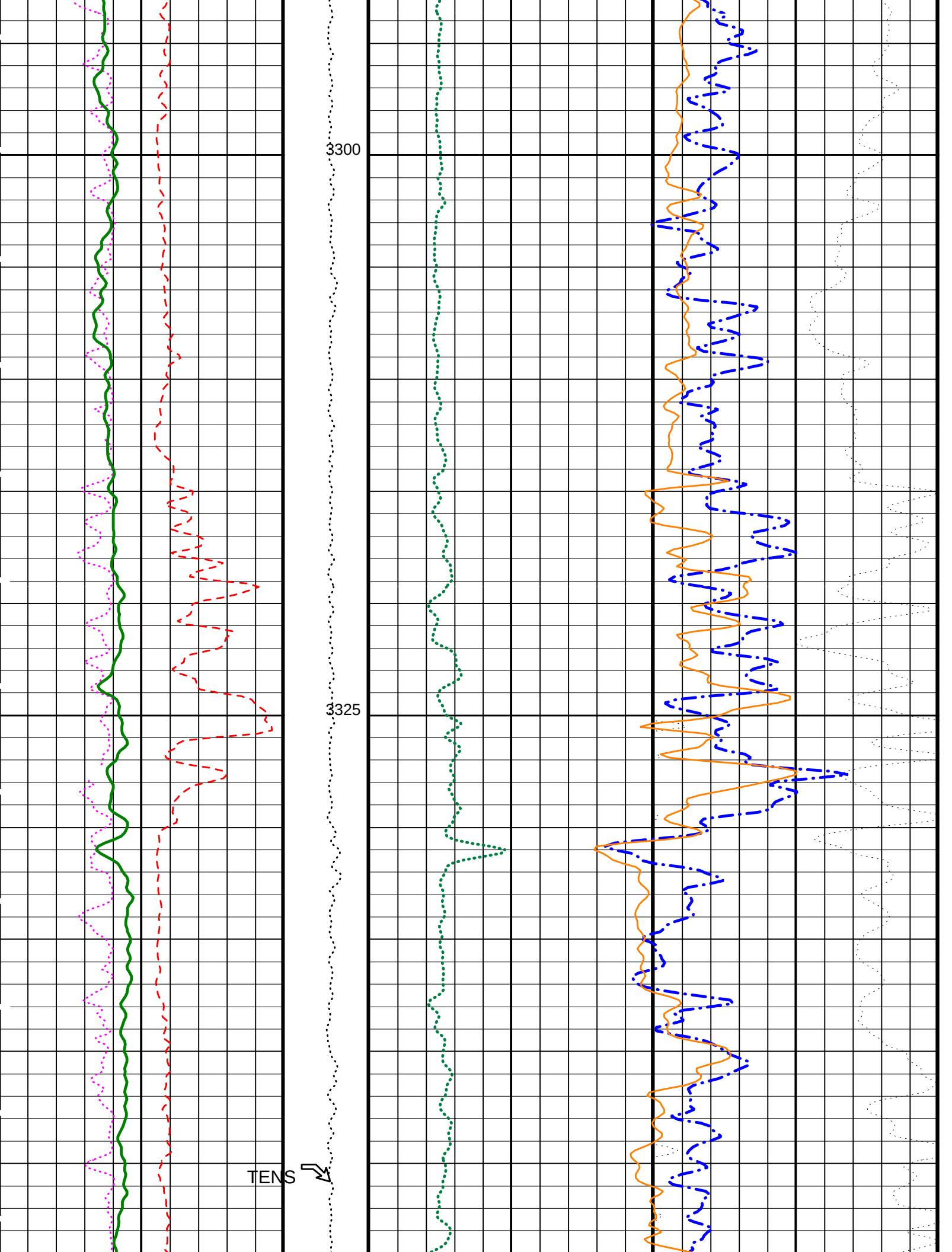
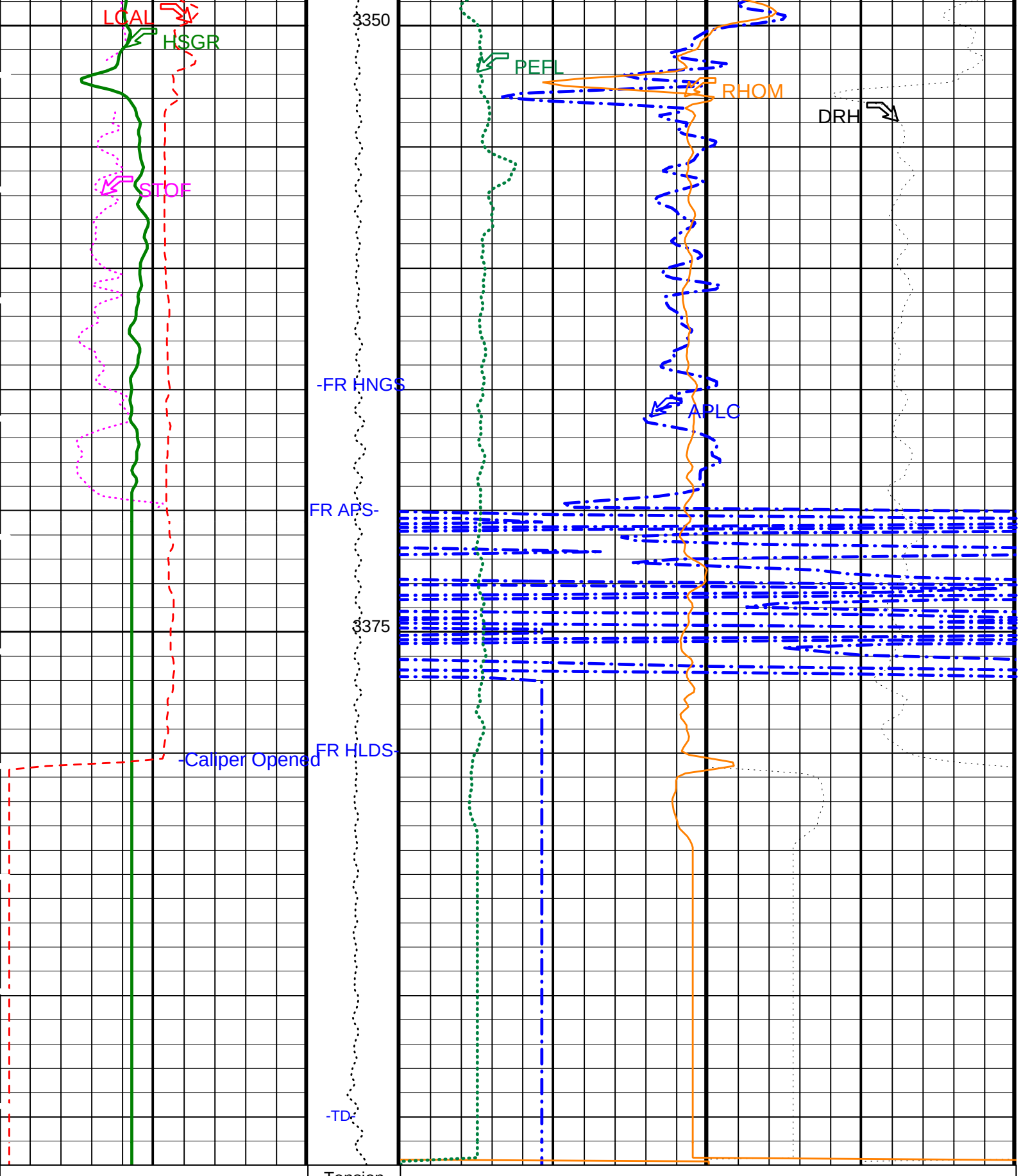
3275


3300
3325
TENS



HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

APS Near/Array Corrected Limestone Porosity (APLC)
0 (PU) 100

APS Effective Standoff in Limestone (STOF)
-1 (IN) 4

HLDS Bulk Density (RHOM)
3 (G/C3) 1

HNGS Spectroscopy Gamma Ray

HLDS Long Spaced Photoelectric Effect

HLDS Bulk Density Correction (DRH)

Parameters

DLIS Name	Description	Value	
	APS Software Version	5	
	HLDS Spec Message Rate	1	
	HLDS Diag Message Rate	20	
	HLDS Data Control	AcquiredData	
	HLDS SS NCB Mode	Density	
	HLDS LS NCB Mode	Density	
	HLDS SS Tri-Ported Memory State	Enable	
	HLDS LS Tri-Ported Memory State	Enable	
	APS Cement Thickness Source	COMPUTED	
	Apparent Thickness of Cement	0	IN
	HLDS SS Digital Integrator State	Normal	
	HLDS LS Digital Integrator State	Normal	
AASD	APS Thermal and Array Detectors High Voltage Setting	1987.2	V
ABOS	APS Neutron Burst-Off Background Subtraction Switch	ON	
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2068.96	V
AHCS	APS Holesize Correction Source	GCSE	
AHSS	APS Holesize Correction Switch	ON	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1761.66	V
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature-Pressure-Salinity Correction Switch	OFF	
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)	212	DEGF
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
BSAL	Borehole Salinity	-50000.00	PPM
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSIZ	Current Casing Size	0.000	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
CWEI	Casing Weight	0.00	LB/F
D1PR	HNGS Detector 1 Calibration Thorium Peak Resolution	7.03834	%
D1TC	HNGS Detector 1 Calibration Temperature	59.2921	DEGF
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	210.324	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	7.10236	%
D2TC	HNGS Detector 2 Calibration Temperature	57.3948	DEGF
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	209.925	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DFD	Drilling Fluid Density	8.51	LB/G
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1.02	G/C3
FSAL	Formation Salinity	32000	PPM
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
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	0.00122299	
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	7.06002e-029	
LATC	HLDS Activation Correction	ON	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
MDEN	Matrix Density	2.71	G/C3
NARC	APS Near/Array Calibration Ratio	1.06801	
NFRC	APS Near/Far Calibration Ratio	0.903124	
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	26.8307	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.986846	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	27.2589	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.984706	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0.000400444	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	68	DEGF
TD	Total Depth	32768	FT
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.0224	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.915815	

Format: APSLiquidPorosity_1 Vertical Scale: 1:200 Graphics File Created: 02-May-2000 15:53

OP System Version: 9C1-303

MCM

DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

Output DLIS Files

DEFAULT	DITE .012	FN:18	PRODUCER	02-May-2000 15:53	
DITE_CUST	DITE .012	FN:19	PRODUCER	02-May-2000 15:53	

Output DLIS Files

DEFAULT	DITE .011	FN:16	PRODUCER	02-May-2000 15:20	2964.9 M	2861.2 M
DITE_CUST	DITE .011	FN:17	PRODUCER	02-May-2000 15:20	2964.9 M	2861.2 M

OP System Version: 9C1-303

MCM

DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

REPEAT SECTION

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 150

HLDS Long Spaced Photoelectric Effect (PEFL)
0 (----) 10

HLDS Bulk Density Correction (DRH)
-0.25 (G/C3) 0.25

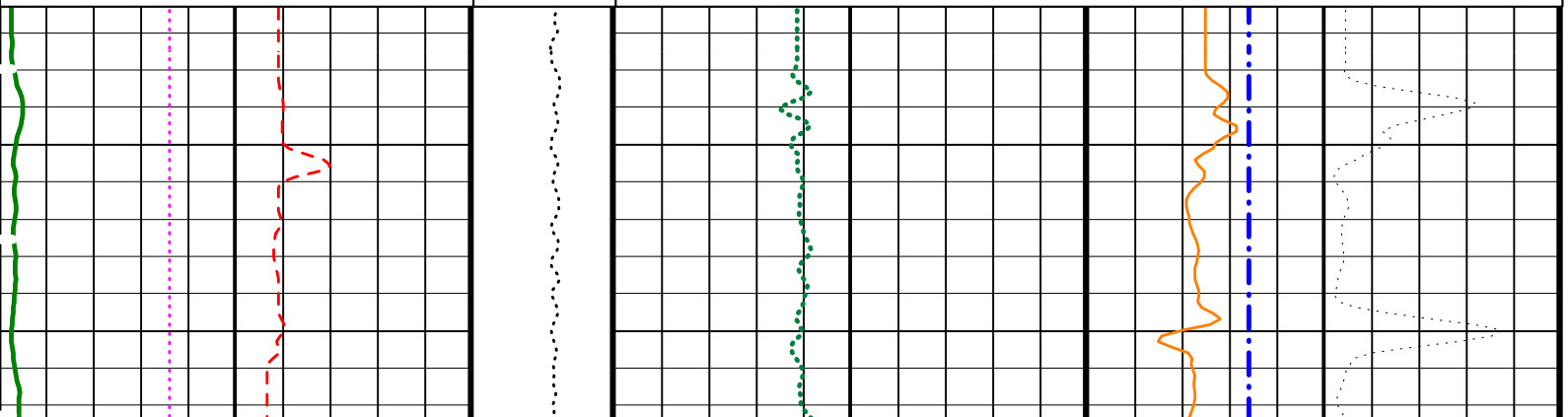
APS Effective Standoff in Limestone (STOF)
-1 (IN) 4

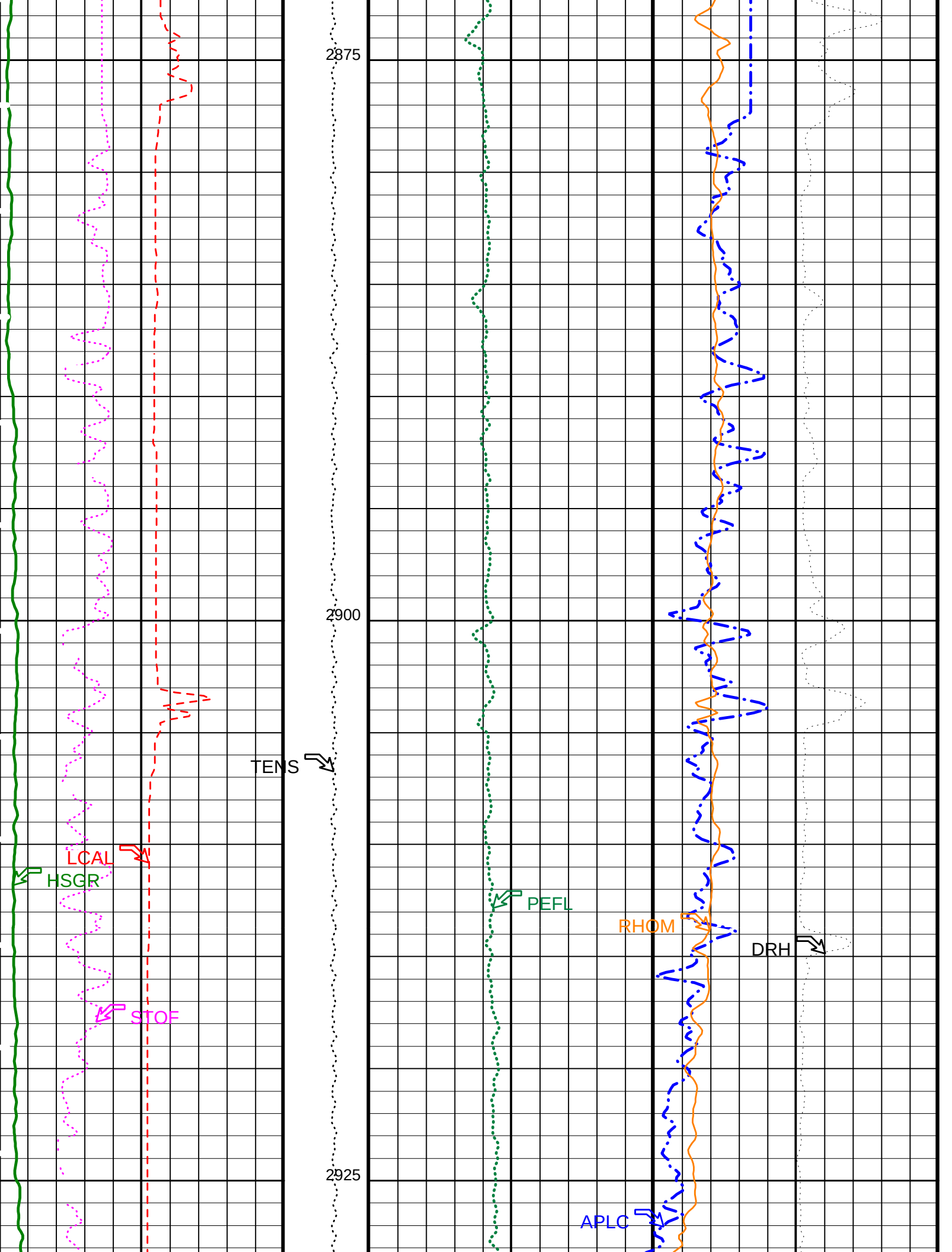
HLDS Bulk Density (RHOM)
3 (G/C3) 1

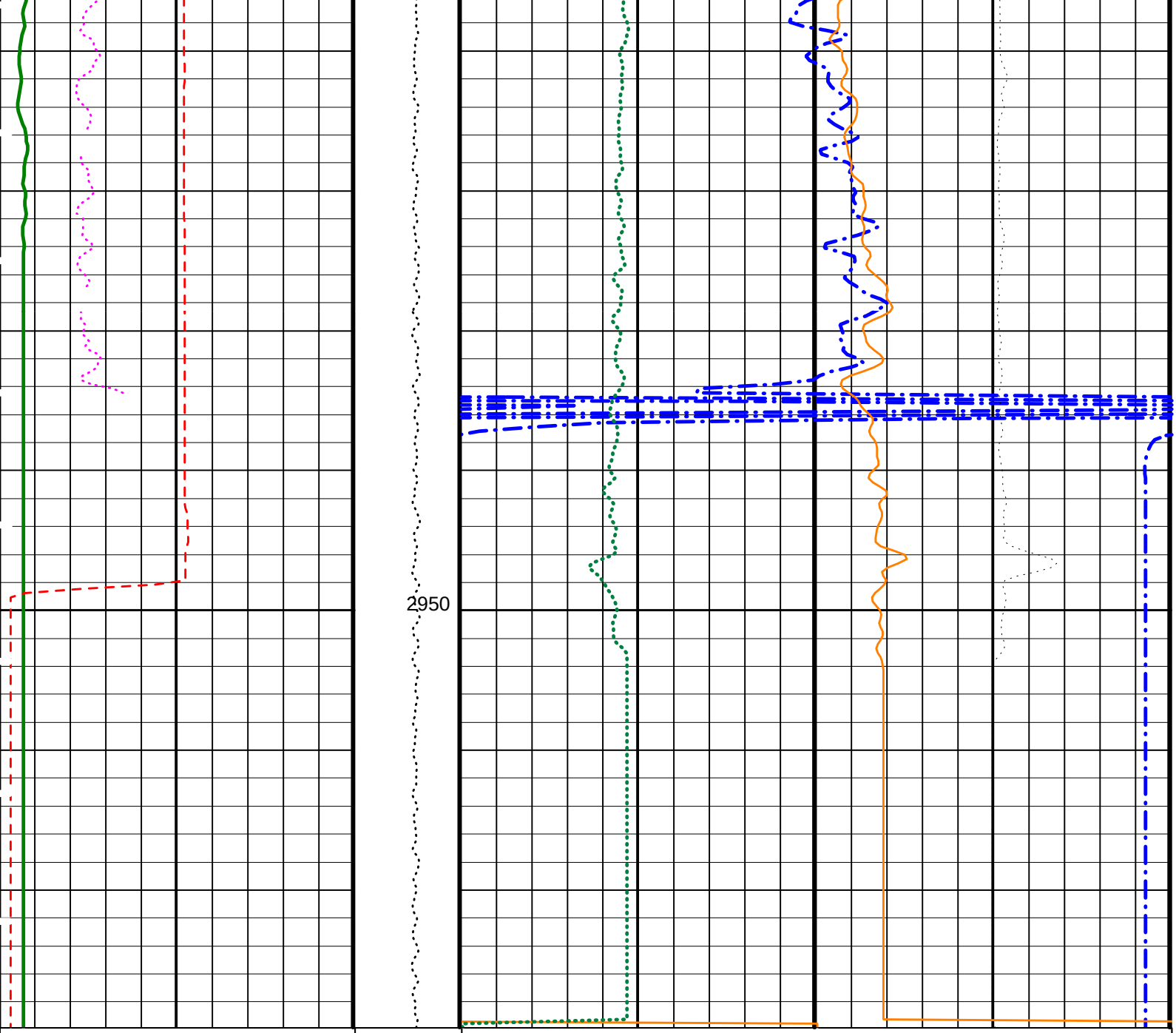
HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

APS Near/Array Corrected Limestone Porosity (APLC)
0 (PU) 100




2875
2900
2925
TENS
LCAL
HSGR
STOF
PEFL
RHOM
DRH
APLC



HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

APS Near/Array Corrected Limestone Porosity (APLC)
0 (PU) 100

APS Effective Standoff in Limestone (STOF)
-1 (IN) 4

HLDS Bulk Density (RHOM)
3 (G/C3) 1

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 150

HLDS Long Spaced Photoelectric Effect (PEFL)
0 (----) 10

HLDS Bulk Density Correction (DRH)
-0.25 (G/C3) 0.25

Time Mark Every 60 S

REPEAT SECTION

PIP SUMMARY

Parameters

DLIS Name	Description	Value
	APS Software Version	5
	HLDS Spec Message Rate	1
	HLDS Diag Message Rate	20
	HLDS Data Control	AcquiredData
	HLDS SS NCB Mode	Density

	HLDS LS NCB Mode	Density	
	HLDS SS Tri-Ported Memory State	Enable	
	HLDS LS Tri-Ported Memory State	Enable	
	APS Cement Thickness Source	COMPUTED	
	Apparent Thickness of Cement	0	IN
	HLDS SS Digital Integrator State	Normal	
	HLDS LS Digital Integrator State	Normal	
AASD	APS Thermal and Array Detectors High Voltage Setting	1987.2	V
ABOS	APS Neutron Burst-Off Background Subtraction Switch	ON	
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2068.96	V
AHCS	APS Holesize Correction Source	GCSE	
AHSS	APS Holesize Correction Switch	ON	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1761.66	V
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature-Pressure-Salinity Correction Switch	OFF	
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)	212	DEGF
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
BSAL	Borehole Salinity	-50000.00	PPM
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSIZ	Current Casing Size	0.000	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
CWEI	Casing Weight	0.00	LB/F
D1PR	HNGS Detector 1 Calibration Thorium Peak Resolution	7.03834	%
D1TC	HNGS Detector 1 Calibration Temperature	59.2921	DEGF
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	210.324	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	7.10236	%
D2TC	HNGS Detector 2 Calibration Temperature	57.3948	DEGF
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	209.925	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DFD	Drilling Fluid Density	8.51	LB/G
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1.02	G/C3
FSAL	Formation Salinity	32000	PPM
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
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	7.36453e-031	
LATC	HLDS Activation Correction	ON	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
MDEN	Matrix Density	2.71	G/C3
NARC	APS Near/Array Calibration Ratio	1.06801	
NFRC	APS Near/Far Calibration Ratio	0.903124	
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	26.8307	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.986846	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	27.2589	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.984706	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	68	DEGF
TD	Total Depth	32768	FT
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0	

MCM

DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

Output DLIS Files

DEFAULT	DITE .011	FN:16	PRODUCER	02-May-2000 15:20
DITE_CUST	DITE .011	FN:17	PRODUCER	02-May-2000 15:20

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement							
Master: 10-MAR-2000 10:06 Before: 17-MAR-2000 18:41 After: 2-MAY-2000 21:22							
SS Total Countrate Bkg	1645	1446	1441	1449	7.680	80.00	CPS
SS HV Measured Bkg	1100	1077	1070	1071	1.491	80.00	V
SS Cs Centroid Bkg	661.0	661.3	661.0	661.5	0.4500	1.500	KEV
SS Cs Resolution Bkg	9.000	8.490	8.564	8.477	-0.08757	1.800	%
LS Total Countrate Bkg	1645	1468	1467	1464	-3.521	80.00	CPS
LS HV Measured Bkg	1100	1195	1190	1189	-1.123	80.00	V
LS Cs Centroid Bkg	661.0	661.3	661.2	661.2	0.05493	1.500	KEV
LS Cs Resolution Bkg	9.000	8.744	8.772	8.785	0.01332	1.800	%
Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration							
Before: 17-MAR-2000 19:48							
HLDS Caliper Small Ring	8.000	N/A	9.714	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	12.00	N/A	13.89	N/A	N/A	N/A	IN
Accelerator-Porosity Tool Wellsite Calibration - Detector Background							
Master: Calibration out of date 2-FEB-2000 21:50 Before: 2-MAY-2000 15:25 After: 2-MAY-2000 19:56							
Near Det Bkg Cntrate	30.00	32.07	55.87	32.30	-23.57	N/A	CPS
Far Det Bkg Cntrate	30.00	32.19	35.23	33.46	-1.769	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	28.58	37.52	29.53	-7.992	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	30.06	39.47	29.76	-9.711	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	33.94	38.87	32.33	-6.539	N/A	CPS
Accelerator-Porosity Tool Wellsite Calibration - Detector Plateau Settings							
Master: Calibration out of date 2-FEB-2000 20:07							
Near Detector Plateau Setting	1650	1762	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2069	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1987	N/A	N/A	N/A	N/A	V
Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios							
Master: Calibration out of date 2-FEB-2000 21:50							
Near/Far Calibration Ratio	0.9250	0.9031	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.068	N/A	N/A	N/A	N/A	
Accelerator-Porosity Tool Master Calibration - Tank Check							
Master: Calibration out of date 2-FEB-2000 21:50							
Array-1 Standoff Porosity	10.25	11.71	--	--	--	--	PU
Array-2 Standoff Porosity	10.25	11.59	--	--	--	--	PU
Sigma Formation	27.50	27.75	--	--	--	--	CU
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check							
Master: 17-APR-2000 13:39 Before: 27-APR-2000 19:51 After: 2-MAY-2000 21:22							
Na 511 Peak Loc	40.00	40.54	40.61	40.50	-0.1129	1.000	
Na 511 Peak Res	15.50	16.04	14.56	15.67	1.115	2.000	%
High Voltage	1150	1110	1109	1111	2.819	30.00	V
Na 1785 Peak Loc	142.6	146.3	145.4	144.9	-0.4233	7.000	
Na 1785 Peak Res	8.500	8.987	9.047	8.984	-0.06378	2.000	%
Temperature	15.50	15.16	18.69	17.76	-0.9264	N/A	DEGC
Na Count Rate	45.00	26.83	26.57	26.24	-0.3233	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check							
Master: 17-APR-2000 13:39 Before: 27-APR-2000 19:51 After: 2-MAY-2000 21:22							
Na 511 Peak Loc	40.00	40.57	40.68	40.66	-0.02054	1.000	
Na 511 Peak Res	15.50	13.85	14.11	14.49	0.3854	2.000	%
High Voltage	1150	1196	1195	1198	2.932	30.00	V
Na 1785 Peak Loc	142.6	144.4	145.4	144.7	-0.7429	7.000	
Na 1785 Peak Res	8.500	8.601	7.729	8.203	0.4745	2.000	%
Temperature	15.50	14.11	17.59	17.86	0.2786	N/A	DEGC

Temperature	15.50	14.11	17.59	17.86	0.2786	N/A	DEGC
Na Count Rate	45.00	27.26	27.00	26.51	-0.4854	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2
Master: 17-APR-2000 13:39 Before: 27-APR-2000 19:51 After: 2-MAY-2000 21:22

Coincidence Count Rate Ratio	1.000	0.9852	0.9847	0.9914	0.006714	0.05000	

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration
Master: 17-APR-2000 13:34

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	210.3	--	--	--	--	
Th Peak Res	7.000	7.038	--	--	--	--	%
Background Count Rate	142.5	17.08	--	--	--	--	CPS
Gain Ratio	1.000	0.9868	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration
Master: 17-APR-2000 13:34

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	209.9	--	--	--	--	
Th Peak Res	7.000	7.102	--	--	--	--	%
Background Count Rate	142.5	17.73	--	--	--	--	CPS
Gain Ratio	1.000	0.9847	--	--	--	--	

Dual Induction - E / Equipment Identification

Primary Equipment:		
Dual Induction Sonde	DIS - HB	355
Dual Induction Cartridge	DIC - EB	352
Auxiliary Equipment:		
Mass Isolated Housing	MIH - ZA	342

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
Master		1446
Before		1441
After		1449

1000 (Minimum) 1645 (Nominal) 2290 (Maximum)

Phase	SS HV Measured Bkg V	Value
Master		1077
Before		1070
After		1071

800.0 (Minimum) 1100 (Nominal) 1400 (Maximum)

Phase	SS PSC DAC Value Bkg	Value
Master		15060
Before		15540
After		15820

14100 (Minimum) 16000 (Nominal) 20000 (Maximum)

Phase	SS Cs Centroid Bkg KEV	Value
Master		661.3
Before		661.0
After		661.5

656.0 (Minimum) 661.0 (Nominal) 666.0 (Maximum)

Phase	SS Cs Resolution Bkg %	Value
Master		8.490
Before		8.564
After		8.477

7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)

Phase	LS Total Countrate Bkg CPS	Value
Master		1468
Before		1467
After		1464

1000 (Minimum) 1645 (Nominal) 2290 (Maximum)

Phase	LS HV Measured Bkg V	Value
Master		1195
Before		1190
After		1189

800.0 (Minimum) 1100 (Nominal) 1400 (Maximum)

Phase	LS PSC DAC Value Bkg	Value
Master		16550
Before		16970
After		17350

14100 (Minimum) 16000 (Nominal) 20000 (Maximum)

Phase	LS Cs Centroid Bkg KEV	Value
Master		661.3
Before		661.2
After		661.2

656.0 (Minimum) 661.0 (Nominal) 666.0 (Maximum)

Phase	LS Cs Resolution Bkg %	Value
Master		8.744

Phase	LSW1 Background CPS	Value
Master		87.58

Phase	LSW2 Background CPS	Value
Master		83.28

Phase	LSW1 Background CPS	Value
Master		8.744
Before		8.772
After		8.785
7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)

Phase	LSW2 Background CPS	Value
Master		87.58
Before		87.85
After		87.80
55.00 (Minimum)	100.0 (Nominal)	150.0 (Maximum)

Phase	LSW3 Background CPS	Value
Master		82.28
Before		80.44
After		80.22
50.00 (Minimum)	100.0 (Nominal)	140.0 (Maximum)

Phase	LSW4 Background CPS	Value
Master		180.2
Before		180.7
After		180.6
110.0 (Minimum)	200.0 (Nominal)	290.0 (Maximum)

Phase	LSW5 Background CPS	Value
Master		219.3
Before		219.2
After		219.8
140.0 (Minimum)	250.0 (Nominal)	360.0 (Maximum)

Phase	SSW1 Background CPS	Value
Master		502.6
Before		504.5
After		501.0
330.0 (Minimum)	600.0 (Nominal)	830.0 (Maximum)

Phase	SSW2 Background CPS	Value
Master		88.30
Before		88.74
After		89.18
55.00 (Minimum)	100.0 (Nominal)	150.0 (Maximum)

Phase	SSW3 Background CPS	Value
Master		157.6
Before		157.4
After		159.1
100.0 (Minimum)	200.0 (Nominal)	260.0 (Maximum)

Phase	SSW4 Background CPS	Value
Master		422.5
Before		421.0
After		423.6
280.0 (Minimum)	500.0 (Nominal)	700.0 (Maximum)

Phase	SSW5 Background CPS	Value
Master		223.9
Before		222.0
After		223.4
150.0 (Minimum)	270.0 (Nominal)	380.0 (Maximum)

Phase	SSW5 Background CPS	Value
Master		163.1
Before		162.9
After		162.0
110.0 (Minimum)	200.0 (Nominal)	270.0 (Maximum)

Master: 10-MAR-2000 10:06 Before: 17-MAR-2000 18:41 After: 2-MAY-2000 21:22

Hostile Litho-Density Sonde Master Calibration

Detector Background Measurement

Phase	LSW1 Background CPS	Value
Master		87.58
55.00 (Minimum)	100.0 (Nominal)	150.0 (Maximum)

Phase	LSW2 Background CPS	Value
Master		82.28
50.00 (Minimum)	100.0 (Nominal)	140.0 (Maximum)

Phase	LSW3 Background CPS	Value
Master		180.2
110.0 (Minimum)	200.0 (Nominal)	290.0 (Maximum)

Phase	LSW4 Background CPS	Value
Master		219.3
140.0 (Minimum)	250.0 (Nominal)	360.0 (Maximum)

Phase	LSW5 Background CPS	Value
Master		502.6
330.0 (Minimum)	600.0 (Nominal)	830.0 (Maximum)

Phase	LS Cs Resolution Bkg %	Value
Master		8.744
7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)

Phase	SSW1 Background CPS	Value
Master		88.30
55.00 (Minimum)	100.0 (Nominal)	150.0 (Maximum)

Phase	SSW2 Background CPS	Value
Master		157.6
100.0 (Minimum)	200.0 (Nominal)	260.0 (Maximum)

Phase	SSW3 Background CPS	Value
Master		422.5
280.0 (Minimum)	500.0 (Nominal)	700.0 (Maximum)

Phase	SSW4 Background CPS	Value
Master		223.9
150.0 (Minimum)	270.0 (Nominal)	380.0 (Maximum)

Phase	SSW5 Background CPS	Value
Master		163.1
110.0 (Minimum)	200.0 (Nominal)	270.0 (Maximum)

Phase	SS Cs Resolution Bkg %	Value
Master		8.490
7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)

Master: 10-MAR-2000 10:06

Hostile Litho-Density Sonde Master Calibration

Detector Aluminum Measurement (bkgd-subtracted)

Phase	LSW1 Aluminum CPS	Value
Master		582.8
420.0 (Minimum)	600.0 (Nominal)	700.0 (Maximum)

Phase	LSW2 Aluminum CPS	Value
Master		846.4
650.0 (Minimum)	900.0 (Nominal)	1050 (Maximum)

Phase	LSW3 Aluminum CPS	Value
Master		1038
800.0 (Minimum)	1100 (Nominal)	1300 (Maximum)

Phase	LSW4 Aluminum CPS	Value
Master		521.8
410.0 (Minimum)	580.0 (Nominal)	670.0 (Maximum)

Phase	LSW5 Aluminum CPS	Value
Master		503.1
410.0 (Minimum)	570.0 (Nominal)	660.0 (Maximum)

Phase	LS Cs Resolution Al %	Value
Master		8.769
7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)

Phase	SSW1 Aluminum CPS	Value
Master		2302
2000 (Minimum)	2800 (Nominal)	3200 (Maximum)

Phase	SSW2 Aluminum CPS	Value
Master		6741
5800 (Minimum)	8000 (Nominal)	9300 (Maximum)

Phase	SSW3 Aluminum CPS	Value
Master		9846
8300 (Minimum)	11600 (Nominal)	13500 (Maximum)

Phase	SSW4 Aluminum CPS	Value
Master		4263

Phase	SSW5 Aluminum CPS	Value
Master		614.4

Phase	SS Cs Resolution Al %	Value
Master		8.321

3500 (Minimum)	5000 (Nominal)	5800 (Maximum)	470.0 (Minimum)	660.0 (Nominal)	770.0 (Maximum)	7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)

Master: 10-MAR-2000 10:32

Hostile Litho-Density Sonde Master Calibration

Detector Litholog Measurement (bkgd-subtracted)

Phase	LSW1 Iron CPS	Value	Phase	LSW2 Iron CPS	Value	Phase	LSW3 Iron CPS	Value
Master		390.1	Master		675.7	Master		916.0
	290.0 (Minimum) 400.0 (Nominal) 470.0 (Maximum)			520.0 (Minimum) 730.0 (Nominal) 850.0 (Maximum)			720.0 (Minimum) 1000 (Nominal) 1160 (Maximum)	

Phase	LSW4 Iron CPS	Value	Phase	LSW5 Iron CPS	Value	Phase	LS Cs Resolution Al + Fe %	Value
Master		480.4	Master		458.6	Master		8.711
	370.0 (Minimum) 520.0 (Nominal) 600.0 (Maximum)			340.0 (Minimum) 470.0 (Nominal) 550.0 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	SSW1 Iron CPS	Value	Phase	SSW2 Iron CPS	Value	Phase	SSW3 Iron CPS	Value
Master		1724	Master		5643	Master		9018
	1500 (Minimum) 2100 (Nominal) 2400 (Maximum)			4900 (Minimum) 6800 (Nominal) 7900 (Maximum)			7800 (Minimum) 10800 (Nominal) 12600 (Maximum)	

Phase	SSW4 Iron CPS	Value	Phase	SSW5 Iron CPS	Value	Phase	SS Cs Resolution Al + Fe %	Value
Master		3917	Master		546.4	Master		8.344
	3300 (Minimum) 4600 (Nominal) 5400 (Maximum)			420.0 (Minimum) 580.0 (Nominal) 680.0 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Master: 10-MAR-2000 10:27

Hostile Litho-Density Sonde Master Calibration

Quality Ratios

Phase	AL CALIBRATION RATIO 1	Value	Phase	AL CALIBRATION RATIO 2	Value	Phase	AL CALIBRATION RATIO 3	Value
Master		1.012	Master		2.019	Master		0.5686
	0.9000 (Minimum) 1.000 (Nominal) 1.100 (Maximum)			1.800 (Minimum) 2.000 (Nominal) 2.200 (Maximum)			0.4500 (Minimum) 0.5500 (Nominal) 0.6500 (Maximum)	

Phase	AL CALIBRATION RATIO 4	Value	Phase	Pad-Wear SS Ratio	Value	Phase	Pad-Wear LS Ratio	Value
Master		0.4720	Master	EXCEEDS LIMIT	0.9962	Master	EXCEEDS LIMIT	0.9729
	0.4000 (Minimum) 0.5000 (Nominal) 0.6000 (Maximum)			0.9800 (Minimum) 0.9880 (Nominal) 0.9960 (Maximum)			0.9800 (Minimum) 0.9880 (Nominal) 0.9960 (Maximum)	

Phase	Pad-Position SS Ratio	Value	Phase	Pad-Position LS Ratio	Value
Master		1.003	Master		0.9942
	0.9900 (Minimum) 0.9940 (Nominal) 1.015 (Maximum)			0.9850 (Minimum) 0.9940 (Nominal) 1.010 (Maximum)	

See Remarks

Master: 10-MAR-2000 10:22

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		32.07	Master		32.19	Master		28.58
Before	EXCEEDS LIMIT	55.87	Before		35.23	Before		37.52

Phase	Value
After	32.30

0 (Minimum) 30.00 (Nominal) 50.00 (Maximum)

Phase	Value
After	33.46

0 (Minimum) 30.00 (Nominal) 50.00 (Maximum)

Phase	Value
After	29.53

0 (Minimum) 30.00 (Nominal) 50.00 (Maximum)

Phase	Array-2 Det Bkg Cntrate CPS	Value
Master		30.06
Before		39.47
After		29.76

0 (Minimum) 30.00 (Nominal) 50.00 (Maximum)

Phase	Array Therm Det Bkg Cntrate CPS	Value
Master		33.94
Before		38.87
After		32.33

0 (Minimum) 30.00 (Nominal) 50.00 (Maximum)

See Remarks

Master: Calibration out of date 2-FEB-2000 21:50 Before: 2-MAY-2000 15:25 After: 2-MAY-2000 19:56

Accelerator-Porosity Tool Wellsite Calibration

Detector Plateau Settings

Phase	Near Detector Plateau Setting V	Value
Master		1762

1400 (Minimum) 1650 (Nominal) 1900 (Maximum)

Phase	Far Detector Plateau Setting V	Value
Master		2069

1750 (Minimum) 2000 (Nominal) 2250 (Maximum)

Phase	Array Detector Plateau Setting V	Value
Master		1987

1750 (Minimum) 2000 (Nominal) 2250 (Maximum)

Master: Calibration out of date 2-FEB-2000 20:07

Accelerator-Porosity Tool Wellsite Calibration

Calibration Ratios

Phase	Near/Far Calibration Ratio	Value
Master		0.9031

0.8000 (Minimum) 0.9250 (Nominal) 1.050 (Maximum)

Phase	Near/Array Calibration Ratio	Value
Master		1.068

0.9000 (Minimum) 1.030 (Nominal) 1.150 (Maximum)

Master: Calibration out of date 2-FEB-2000 21:50

Accelerator-Porosity Tool Master Calibration

Detector Calibration

Phase	Near Detector Plateau Setting V	Value
Master		1762

1400 (Minimum) 1650 (Nominal) 1900 (Maximum)

Phase	Far Detector Plateau Setting V	Value
Master		2069

1750 (Minimum) 2000 (Nominal) 2250 (Maximum)

Phase	Array Detector Plateau Setting V	Value
Master		1987

1750 (Minimum) 2000 (Nominal) 2250 (Maximum)

Phase	Near/Far Calibration Ratio	Value
Master		0.9031

0.8000 (Minimum) 0.9250 (Nominal) 1.050 (Maximum)

Phase	Near/Array Calibration Ratio	Value
Master		1.068

0.9000 (Minimum) 1.030 (Nominal) 1.150 (Maximum)

Master: Calibration out of date 2-FEB-2000 20:07

Accelerator-Porosity Tool Master Calibration

Tank Check

Phase	Array-1 Standoff Porosity PU	Value
Master		11.71

5.500 (Minimum) 10.25 (Nominal) 15.00 (Maximum)

Phase	Array-2 Standoff Porosity PU	Value
Master		11.59

5.500 (Minimum) 10.25 (Nominal) 15.00 (Maximum)

Phase	Sigma Formation CU	Value
Master		27.75

20.00 (Minimum) 27.50 (Nominal) 35.00 (Maximum)

Master: Calibration out of date 2-FEB-2000 21:50

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

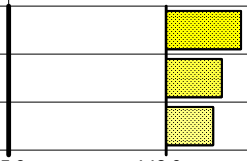
Hostile Natural Gamma Ray Sonde Wellsite Calibration

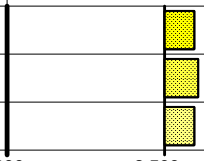
Detector 1 Check

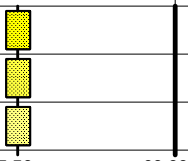
Phase	Na 511 Peak Loc	Value
Master		40.54
Before		40.61
After		40.50

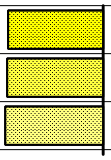
Phase	Na 511 Peak Res %	Value
Master		16.04
Before		14.56
After		15.67

Phase	High Voltage V	Value
Master		1110
Before		1109
After		1111

Phase	Na 1785 Peak Loc	Value
Master		146.3
Before		145.4
After		144.9
135.0 (Minimum)	142.6 (Nominal)	150.3 (Maximum)

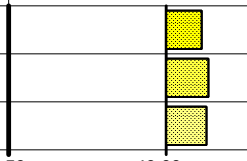
Phase	Na 1785 Peak Res %	Value
Master		8.987
Before		9.047
After		8.984
7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)

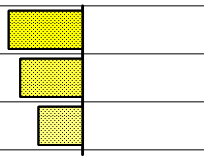
Phase	Temperature DEGC	Value
Master		15.16
Before		18.69
After		17.76
-28.89 (Minimum)	15.50 (Nominal)	60.00 (Maximum)

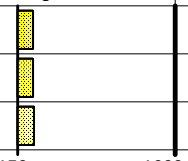
Phase	Na Count Rate CPS	Value
Master		26.83
Before		26.57
After		26.24
15.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)

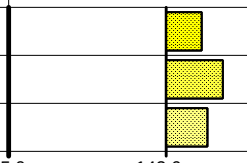
Master: 17-APR-2000 13:39 Before: 27-APR-2000 19:51 After: 2-MAY-2000 21:22

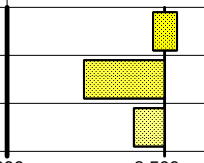
Hostile Natural Gamma Ray Sonde Wellsite Calibration
Detector 2 Check

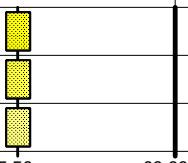
Phase	Na 511 Peak Loc	Value
Master		40.57
Before		40.68
After		40.66
37.50 (Minimum)	40.00 (Nominal)	42.50 (Maximum)

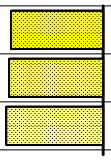
Phase	Na 511 Peak Res %	Value
Master		13.85
Before		14.11
After		14.49
12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)

Phase	High Voltage V	Value
Master		1196
Before		1195
After		1198
900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)

Phase	Na 1785 Peak Loc	Value
Master		144.4
Before		145.4
After		144.7
135.0 (Minimum)	142.6 (Nominal)	150.3 (Maximum)

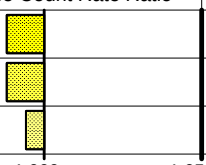
Phase	Na 1785 Peak Res %	Value
Master		8.601
Before		7.729
After		8.203
7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)

Phase	Temperature DEGC	Value
Master		14.11
Before		17.59
After		17.86
-28.89 (Minimum)	15.50 (Nominal)	60.00 (Maximum)

Phase	Na Count Rate CPS	Value
Master		27.26
Before		27.00
After		26.51
15.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)

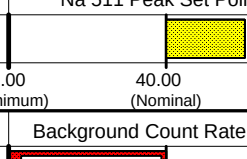
Master: 17-APR-2000 13:39 Before: 27-APR-2000 19:51 After: 2-MAY-2000 21:22

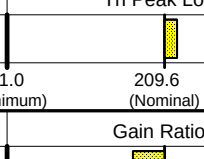
Hostile Natural Gamma Ray Sonde Wellsite Calibration
Ratio Of Detector 1 To Detector 2

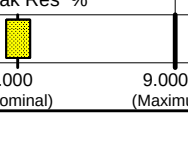
Phase	Coincidence Count Rate Ratio	Value
Master		0.9852
Before		0.9847
After		0.9914
0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)

Master: 17-APR-2000 13:39
Before: 27-APR-2000 19:51
After: 2-MAY-2000 21:22

Hostile Natural Gamma Ray Sonde Master Calibration
Detector 1 Calibration

Phase	Na 511 Peak Set Point	Value
Master		41.00
38.00 (Minimum)	40.00 (Nominal)	42.00 (Maximum)

Phase	Th Peak Loc	Value
Master		210.3
201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)

Phase	Th Peak Res %	Value
Master		7.038
5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)

Phase	Background Count Rate CPS	Value
Master	EXCEEDS LIMIT	17.08
20.00 (Minimum)	142.5	265.0

Phase	Gain Ratio	Value
Master		0.9868
0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)

See Remarks

(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)

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Hostile Natural Gamma Ray Sonde Master Calibration

Detector 2 Calibration

Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value
Master		41.00	Master		209.9	Master		7.102
	38.00 (Minimum) / 40.00 (Nominal) / 42.00 (Maximum)			201.0 (Minimum) / 209.6 (Nominal) / 218.3 (Maximum)			5.000 (Minimum) / 7.000 (Nominal) / 9.000 (Maximum)	
Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value			
Master	EXCEEDS LIMIT	17.73	Master		0.9847			
	20.00 (Minimum) / 142.5 (Nominal) / 265.0 (Maximum)			0.9400 (Minimum) / 1.000 (Nominal) / 1.060 (Maximum)				

See Remarks

Master: 17-APR-2000 13:34

COMPANY:	Lamont Doherty
WELL:	ODP Leg 189, Site 1172D (ETP-2A)
FIELD:	East Tasmania
COUNTY:	Offshore
STATE:	Pacific Ocean

BOTTOM LOG INTERVAL	3380 m
SCHLUMBERGER DEPTH	3395 m
DEPTH DRILLER	3399.85 m
KELLY BUSHING	11.2 m
DRILL FLOOR	10.9 m
GROUND LEVEL	2621.7 m

Schlumberger

Density/APS Porosity
Natural Gamma Ray