

DISCLAIMER
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OTHER SERVICES1
 OS1: FMS/DSI
 OS2: TEMP
 OS3: HLDS/APS
 OS4:
 OS5:

OTHER SERVICES2
 OS1:
 OS2:
 OS3:
 OS4:
 OS5:

REMARKS: RUN NUMBER 1
 HGTC (HighTemp/High Pressure Gamma Ray Telemetry Cartridge) used with LEH-QO head and MTEM sensor.
 Log presented in meters below rig floor. Sea floor at 1652 mbrf.
 Wireline heave compensator used on all descents.
 Sea water used as mud in hole.
 Log TD at 1888 mbrf on first descent, 1850 on other descents there after.
 Maximum temperature recorded from DITE ITEM.
 Toolstring-DITE/DTA/HLDS/NPLC/APS/ILED/HNGS/HGTC/LEHQO
 Original log files are log12.dlis and log18.dlis, they are replaced with play84.dlis and play 86.dlis. Reprocessing was done for the HNGS to compensate for the correct mud density of 1.1 g/cc.
 Calibrations located on HLDS/APS Porosity print.

REMARKS: RUN NUMBER 2
 for Temperature

RUN 1

SERVICE ORDER #:
 PROGRAM VERSION: 9C1-303
 FLUID LEVEL: 0 m

LOGGED INTERVAL	START	STOP

RUN 2

SERVICE ORDER #:
 PROGRAM VERSION:
 FLUID LEVEL:

LOGGED INTERVAL	START	STOP




EQUIPMENT DESCRIPTION

RUN 1 SURFACE EQUIPMENT

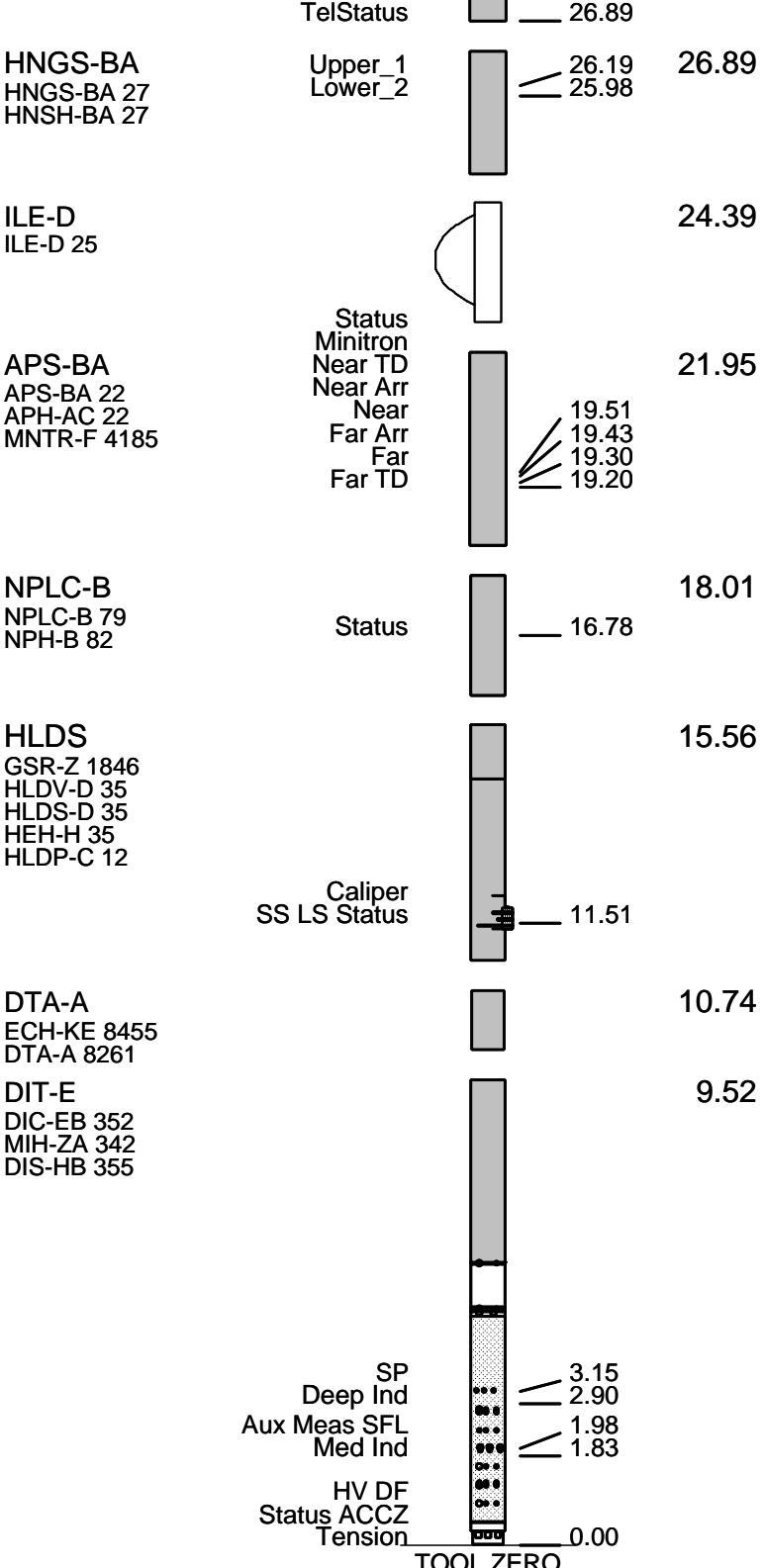
SFT-281 24
 SFT-178 4722
 GSR-U 135
 WITM (DTS)-A

RUN 2 SURFACE EQUIPMENT

RUN 1 DOWNHOLE EQUIPMENT

LEH-MT 31.10
 LEH-MT 1
 Mud Tempe  30.14
 HTGC-B 30.14
 UDFH-KL 1062 Gamma Ray  29.11
 STGC0-A 8038 CTEM  28.24
 STGC1-BH 8038
 MTEM 1

RUN 2 DOWNHOLE EQUIPMENT



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

Input DLIS Files

DEFAULT	DITE .049	FN:82 PRODUCER	27-Dec-2000 17:59	1849.4 M	1743.5 M
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Output DLIS Files

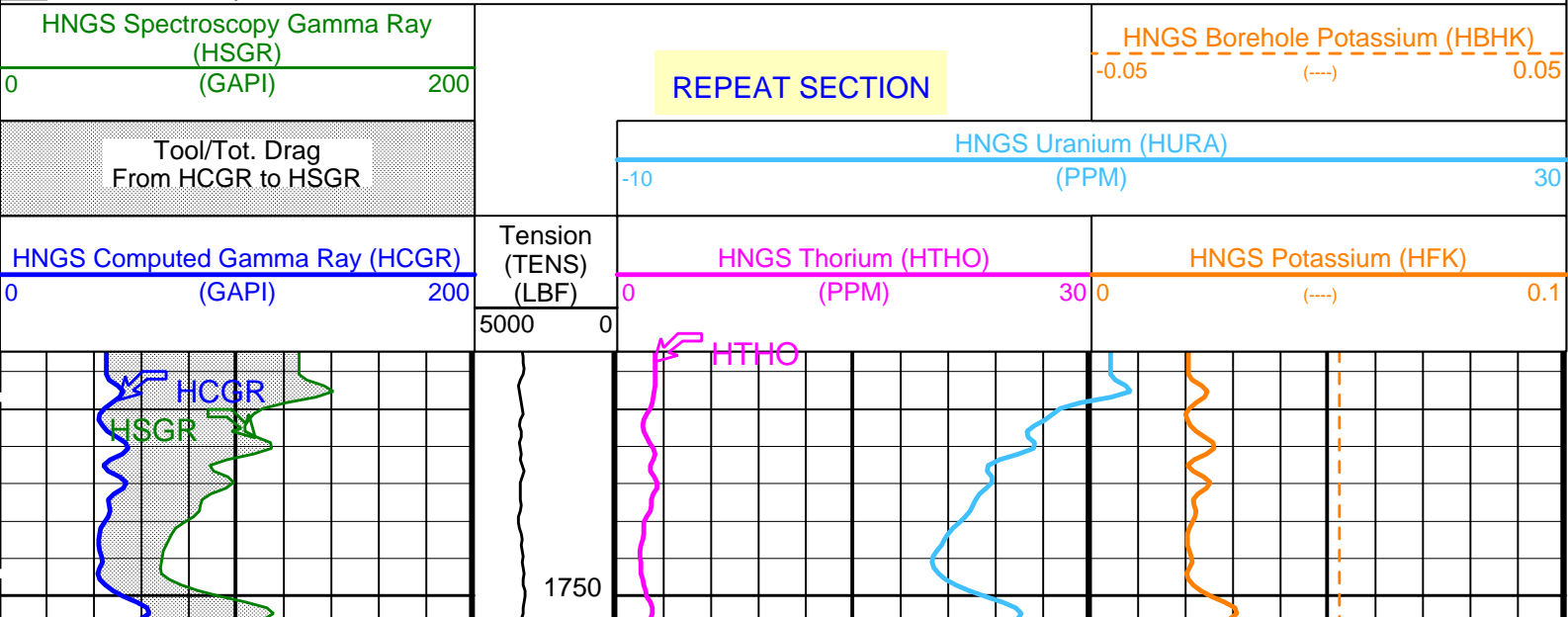
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LAMONT	DITE .086	FN:135 PRODUCER	31-Dec-2000 16:19	1849.4 M	1743.5 M

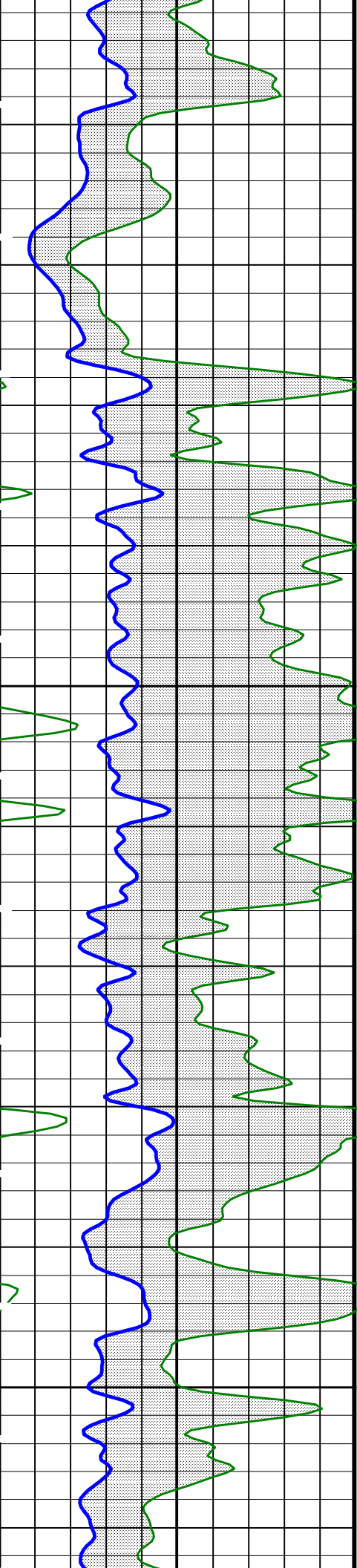
OP System Version: 9C1-303 MCM

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

PIP SUMMARY

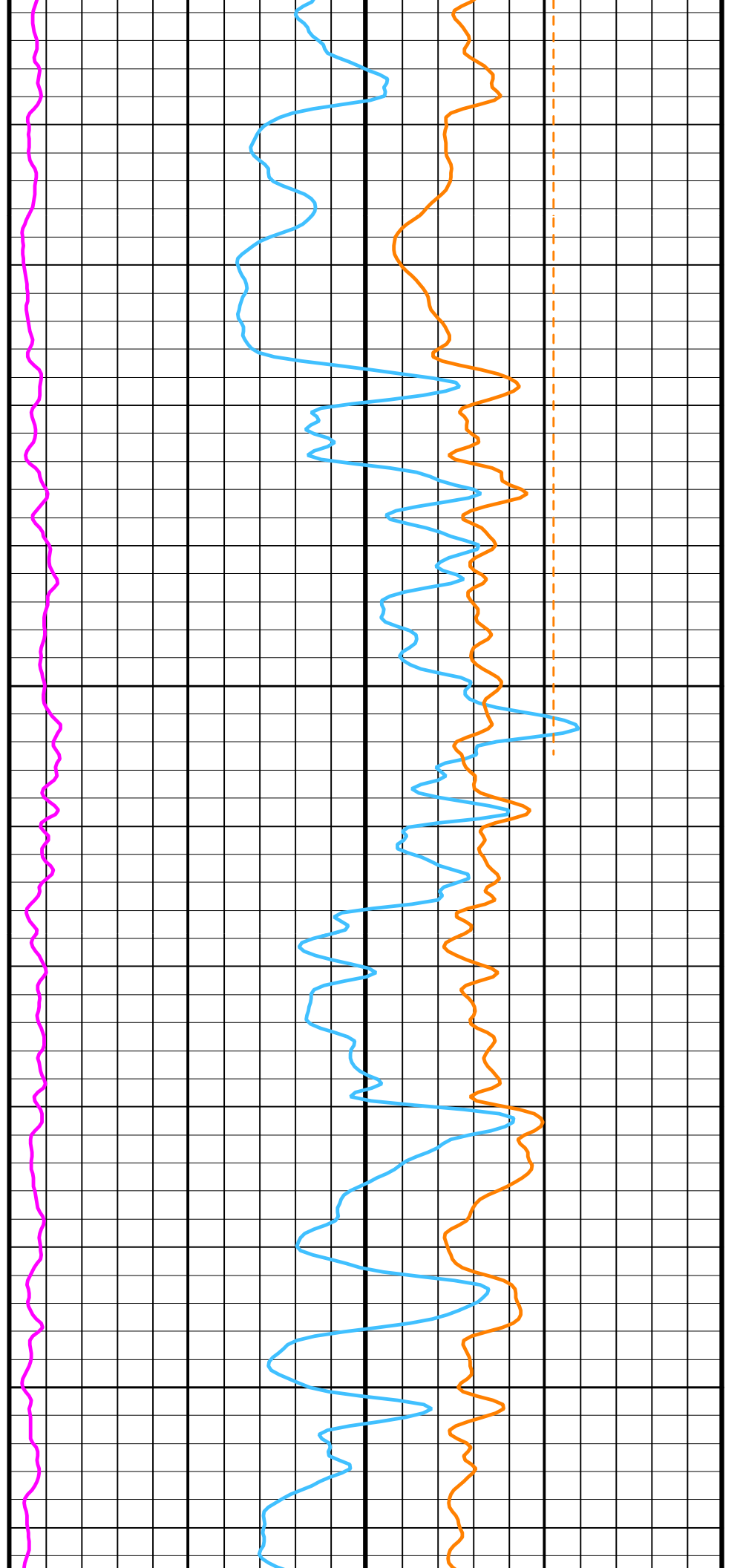
Time Mark Every 60 S

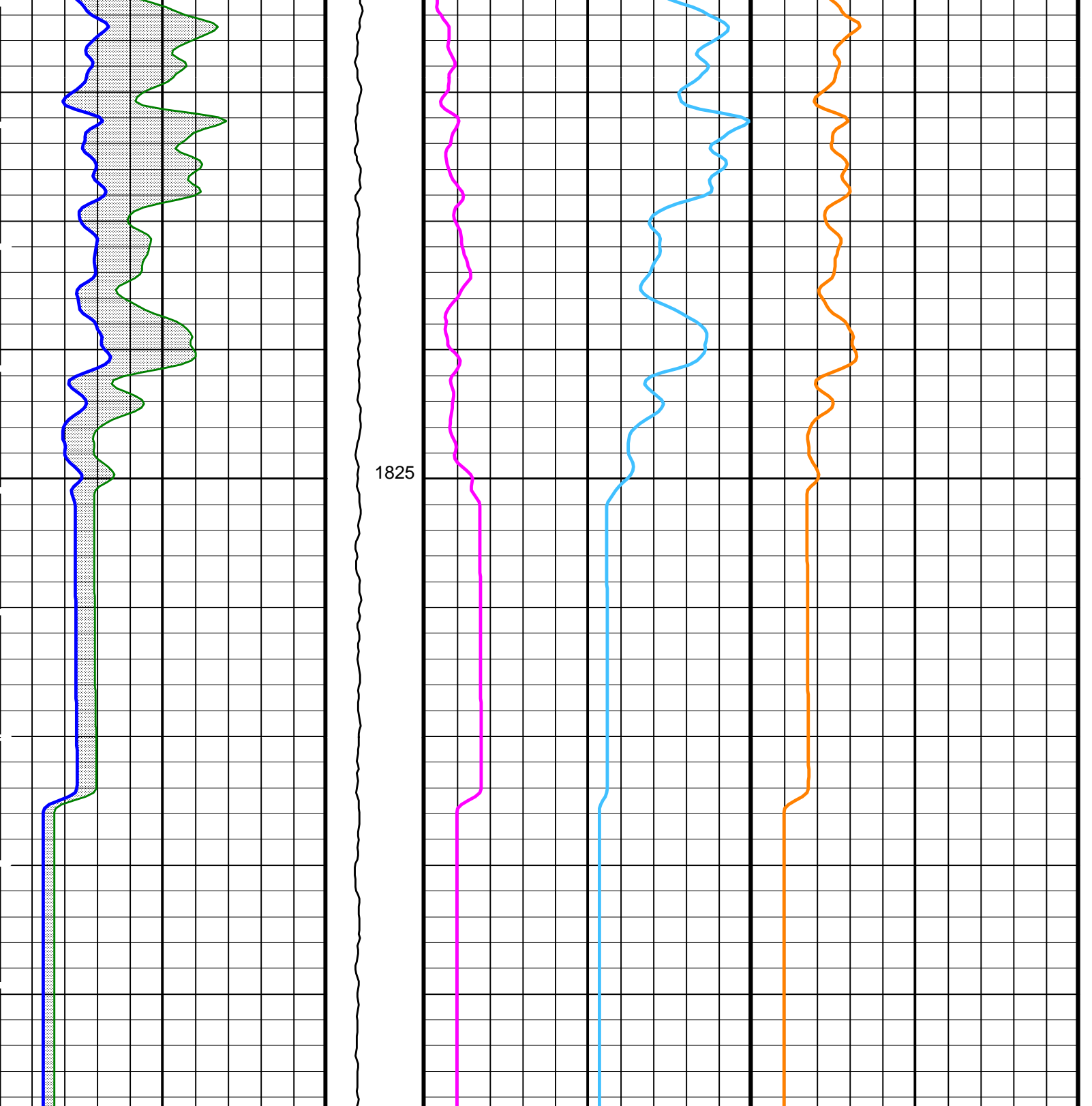




1775

1800





<p>HNGS Computed Gamma Ray (HCGR) (GAPI) 0 200</p>	<p>Tension (TENS) (LBF) 5000 0</p>	<p>HNGS Thorium (HTHO) (PPM) 0 30</p>	<p>HNGS Potassium (HFK) (----) 0 0.1</p>
<p>Tool/Tot. Drag From HCGR to HSGR</p> <p>HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) 0 200</p>		<p>HNGS Uranium (HURA) (PPM) -10 30</p> <p>REPEAT SECTION</p>	<p>HNGS Borehole Potassium (HBHK) (----) -0.05 0.05</p>

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	
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	83.0462	DEGF
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	81.4405	DEGF
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	209.443	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DFD	Drilling Fluid Density	9.17	LB/G
DO	Depth Offset for Logical Unit 1	0.0	M
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
GCSE	Generalized Caliper Selection	LCAL	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00471137	
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	1.62695e-029	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
PP	Playback Processing	RECOMPUTE	
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	24.2212	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	24.6034	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.982439	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0.000713537	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.952922	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.934578	

Format: HNGSNGT Vertical Scale: 1:200 Graphics File Created: 31-Dec-2000 16:19

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
HTGC-B	OP91-kp2		

Input DLIS Files

DEFAULT	DITE .049	FN:82 PRODUCER	27-Dec-2000 17:59	1849.4 M	1743.5 M
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Output DLIS Files

DEFAULT	DITE .086	FN:134 PRODUCER	31-Dec-2000 16:19
LAMONT	DITE .086	FN:135 PRODUCER	31-Dec-2000 16:19

Input DLIS Files

DEFAULT	DITE .043	FN:70 PRODUCER	27-Dec-2000 17:34	1851.7 M	1669.2 M
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Output DLIS Files

DEFAULT
LAMONT

DITE .084
DITE .084

FN:130 PRODUCER
FN:131 PRODUCER

31-Dec-2000 16:15
31-Dec-2000 16:15

1851.7 M

1669.5 M

OP System Version: 9C1-303

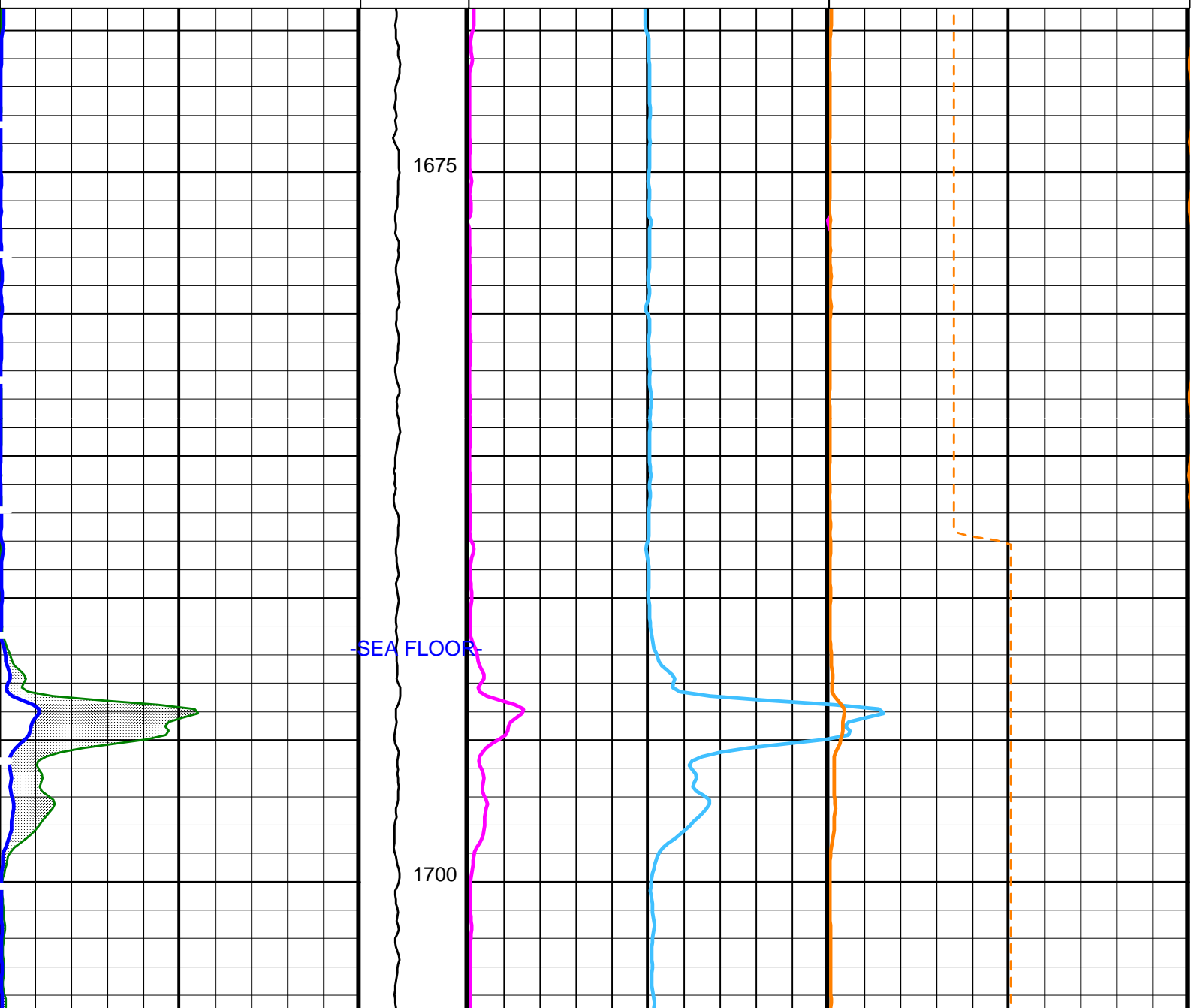
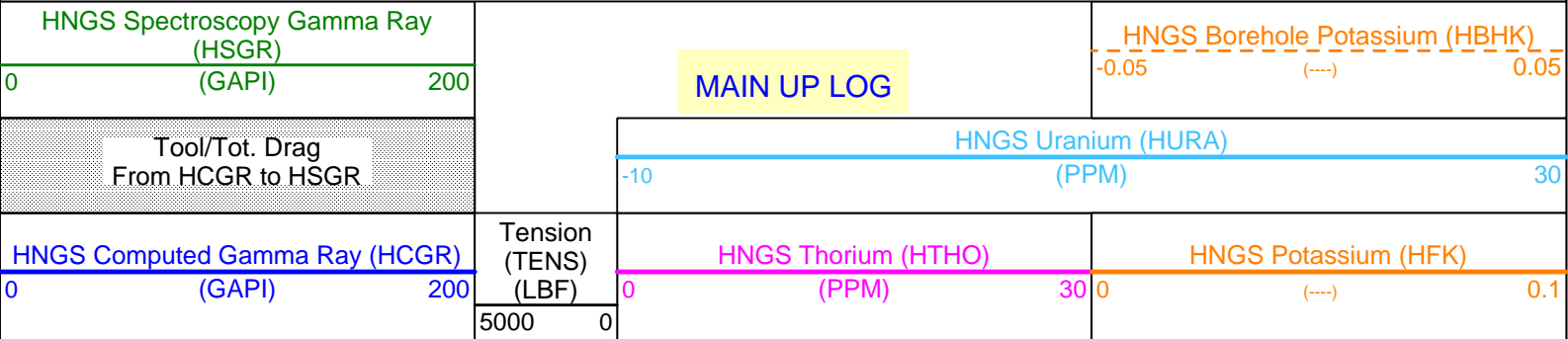
MCM

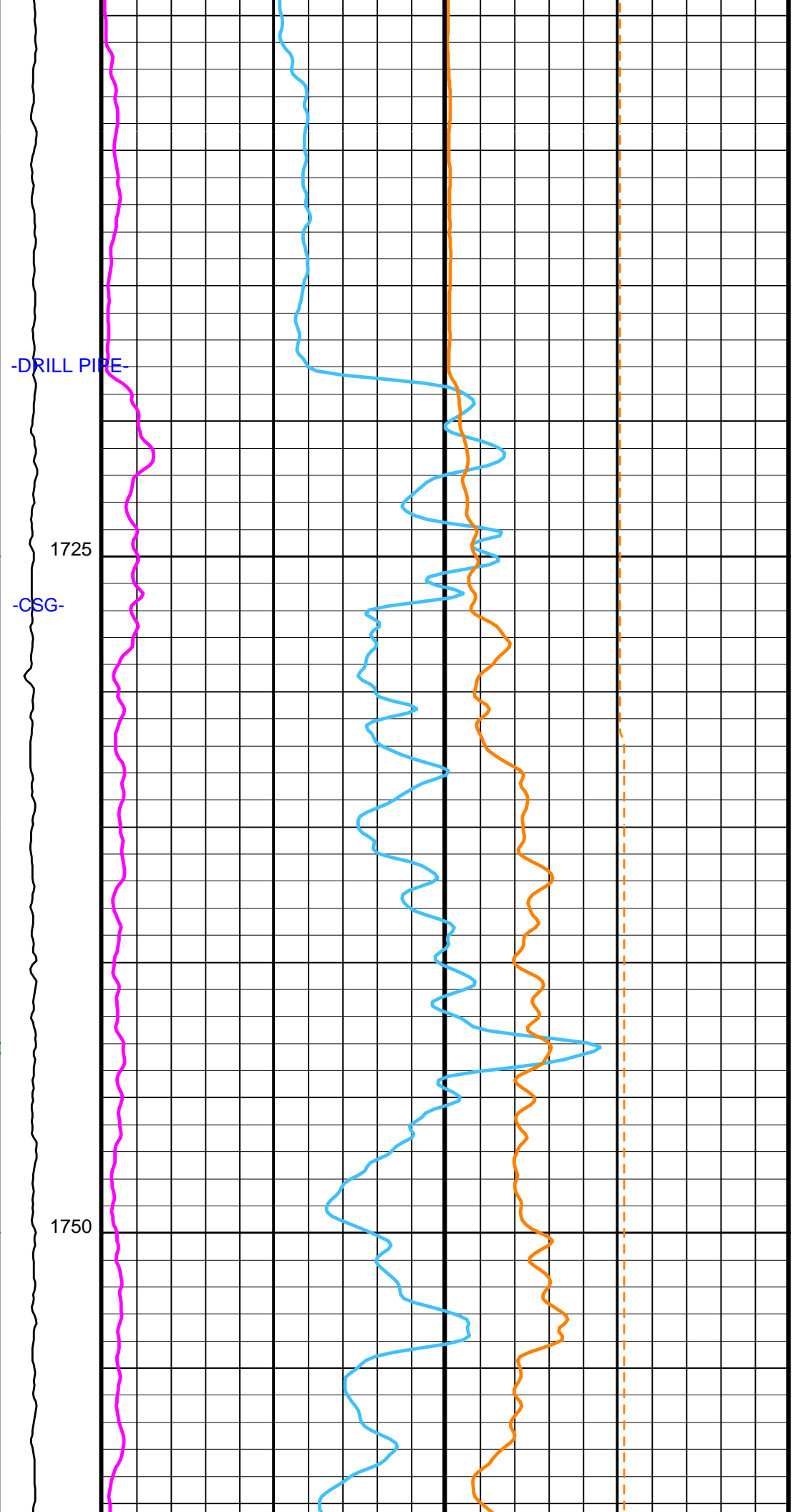
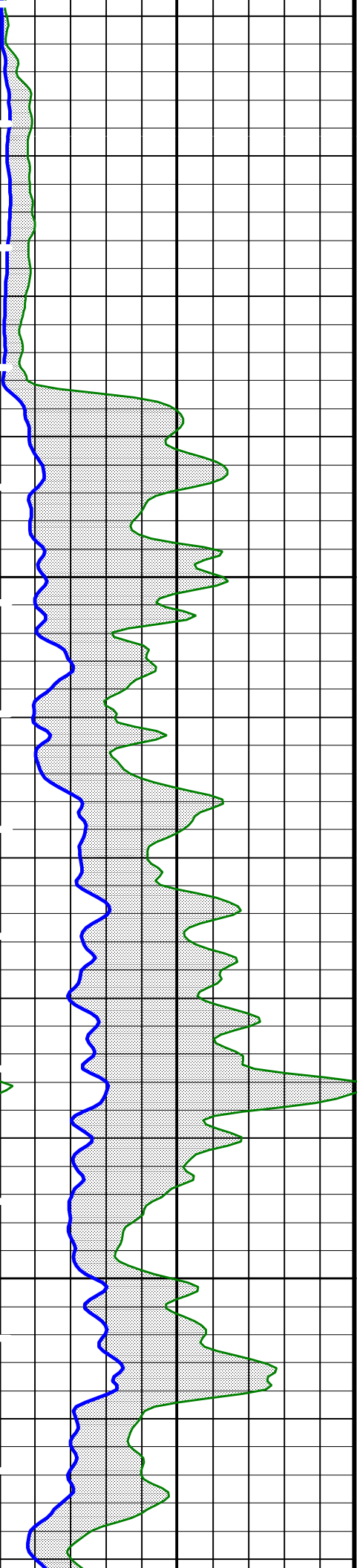
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HLDS OP91-kp2
APS-BA OP91-kp2
HTGC-B OP91-kp2

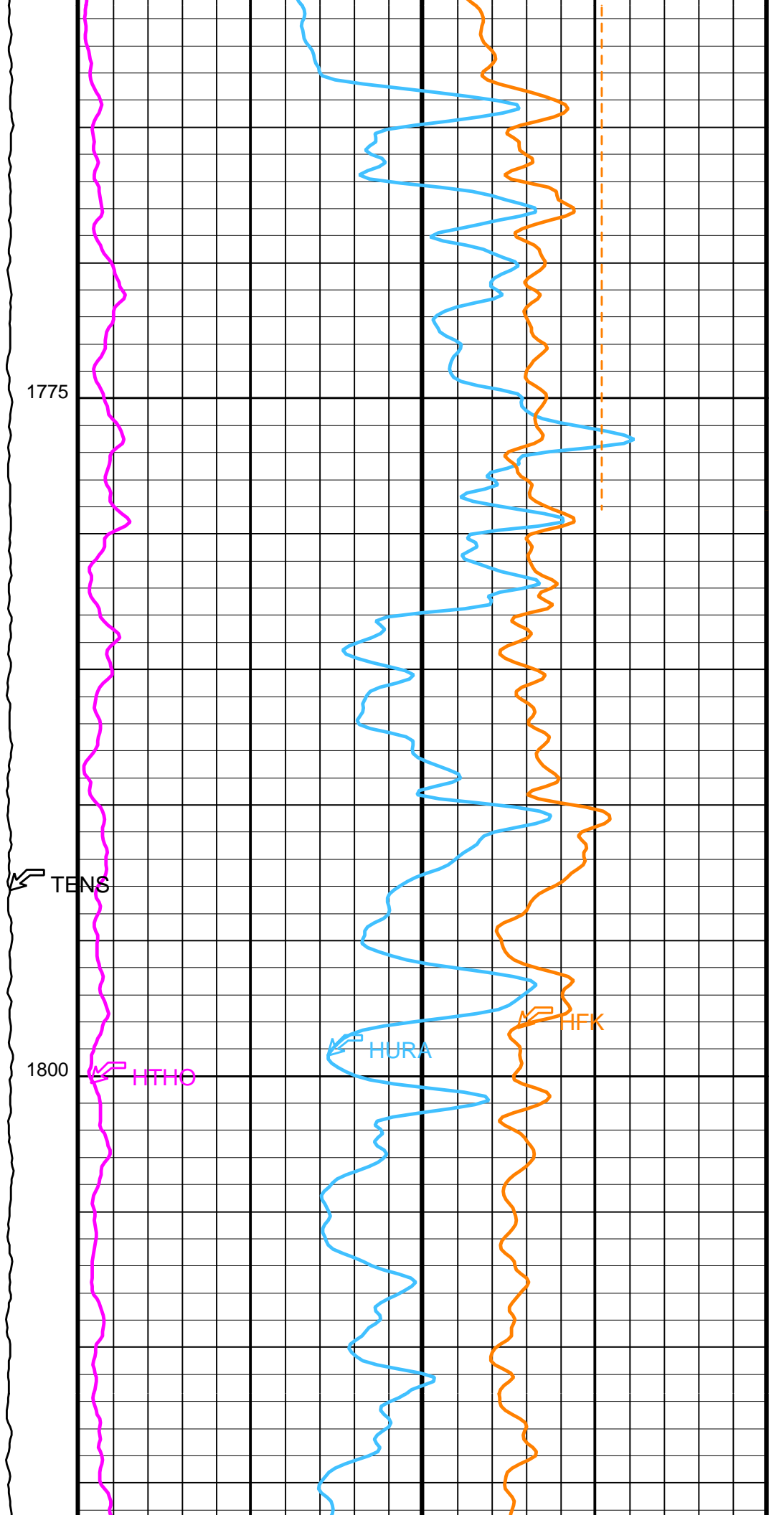
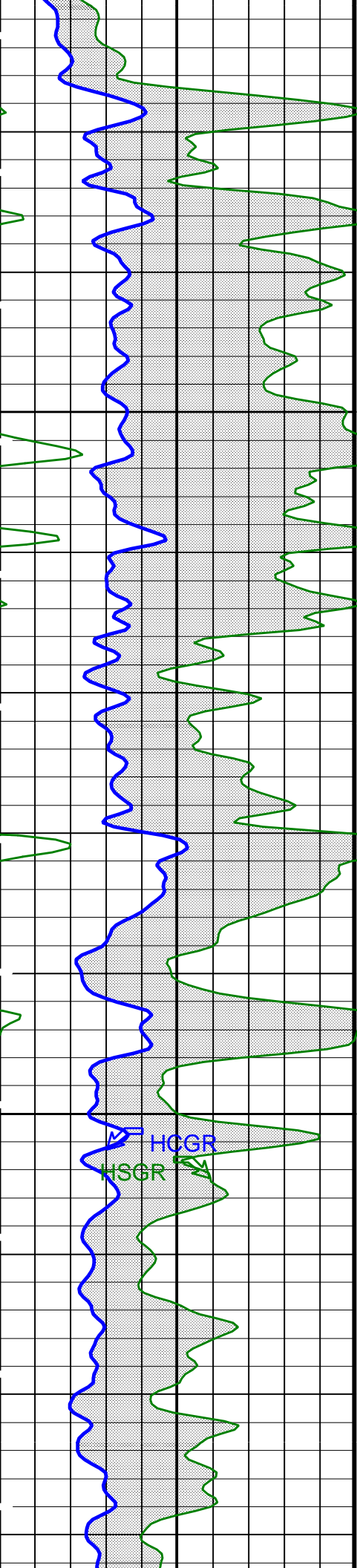
DTA-A OP91-kp2
NPLC-B OP91-kp2
HNCS-BA OP91-kp2

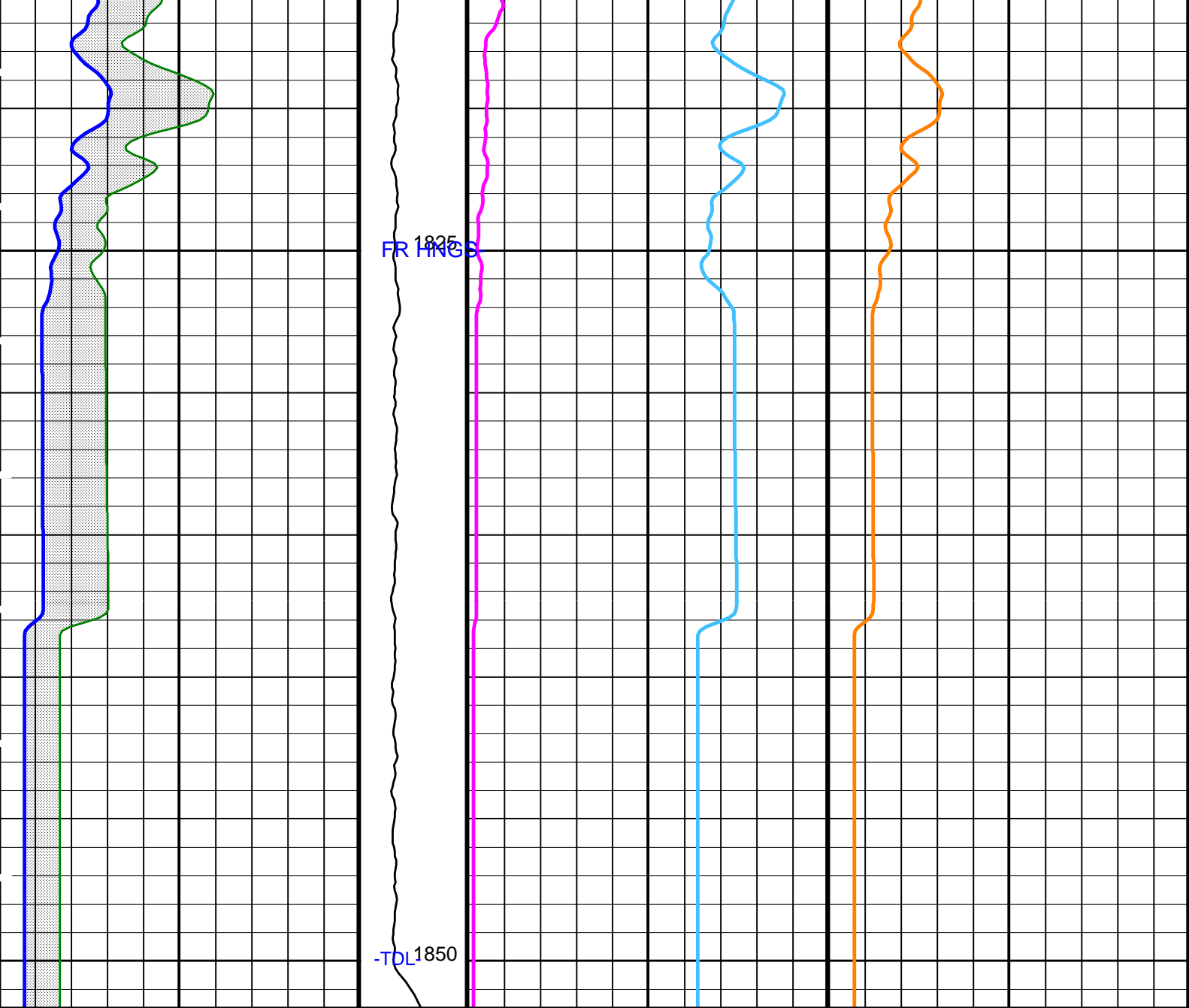
PIP SUMMARY

Time Mark Every 60 S









HNGS Computed Gamma Ray (HCGR) (GAPI)	0	200	Tension (TENS) (LBF)	5000	0	HNGS Thorium (HTHO) (PPM)	0	30	HNGS Potassium (HFK) (---)	0	0.1
Tool/Tot. Drag From HCGR to HSGR							HNGS Uranium (HURA) (PPM)	-10	30		
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)	0	200					MAIN UP LOG		HNGS Borehole Potassium (HBHK) (---)	-0.05	0.05

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
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	83.0462	DEGF
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	81.4405	DEGF
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	209.443	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DFD	Drilling Fluid Density	9.17	LB/G
DO	Depth Offset for Logical Unit 1	0.0	M
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
GCSE	Generalized Caliper Selection	LCAL	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	0.00209471	
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	4.02002e-036	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
PP	Playback Processing	RECOMPUTE	
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	24.2212	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	24.6034	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.982439	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0.000892373	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.978232	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.968875	

Format: HNGSNGT Vertical Scale: 1:200 Graphics File Created: 31-Dec-2000 16:15

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
HTGC-B	OP91-kp2		

Input DLIS Files

DEFAULT	DITE .043	FN:70 PRODUCER	27-Dec-2000 17:34	1851.7 M	1669.2 M
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Output DLIS Files

DEFAULT	DITE .084	FN:130 PRODUCER	31-Dec-2000 16:15
LAMONT	DITE .084	FN:131 PRODUCER	31-Dec-2000 16:15

COMPANY:	Lamont Doherty	BOTTOM LOG INTERVAL	1825 m
WELL:	ODP Leg 193, Site 1189B (PCM-3A)	SCHLUMBERGER DEPTH	1888 m
FIELD:	Manus Basin, Roman Ruins	DEPTH DRILLER	1899 m
COUNTY:	Offshore	KELLY BUSHING	11.3 m
STATE:	Bismarck Sea	DRILL FLOOR	11 m
		GROUND LEVEL	-1693 m

**Natural Gamma Ray
(HNGS)**

