

BS = 12.25" FROM SC-900M

SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:			RUN 2
LOGGED INTERVAL	START	STOP	

RUN 2

GSR-U/Y 6710 WITM (DTS)-A
NCT-B
CNB-AB
NCS-VB

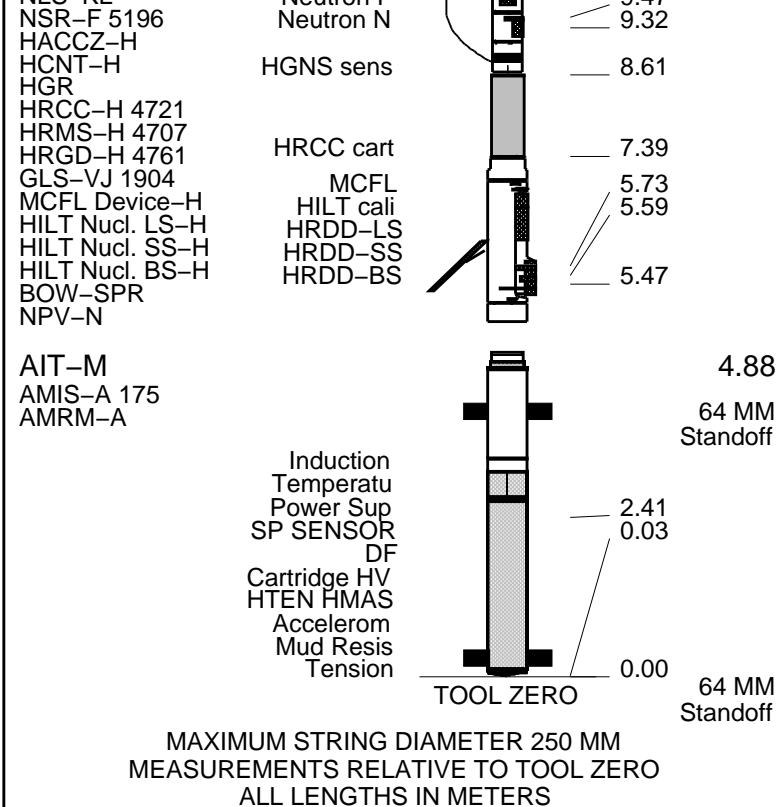
HILTH-FTB
HGNSD-H 4730
HMCA-H
HGNI
NI S-KI

Gamma-Ray

Neutron E

11.2

9.47



Schlumberger

MAIN PASS: CMR LOG

MAXIS Field Log

Company: JOGMEC

Well: AURORA/JOGMEC/NRCAN MALLIK 2L-38

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_048LUP	FN:55	PRODUCER	03-Mar-2007 08:10	1133.9 M	781.5 M
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_065PUP	FN:74	PRODUCER	03-Mar-2007 10:31	1134.3 M	760.5 M
CUST	AIT_TLD_MCFL_CNL_065PUP	FN:75	PRODUCER	03-Mar-2007 10:31	1134.3 M	760.5 M

CMR DEPTH LOG REPORT

PARAMETER SUMMARY

Tool Type: CMR-Plus	Cart. Number: 202	Sonde Number: 182
Kit Number: 28	DHC Version : 16.4	DSP Version : 13
Mode: Expert Depth Log - B Mode		SP Version : 2062001
		LFST Freq(khz) : 2264
		LFST Temp(degC) : 8.57

Log Direction: Up	Polarization Correction: On	EPM: Yes	EPM T1/T2: Auto
Despiking: Off	High Res: Off	KBFV: Off	DMRP: Off

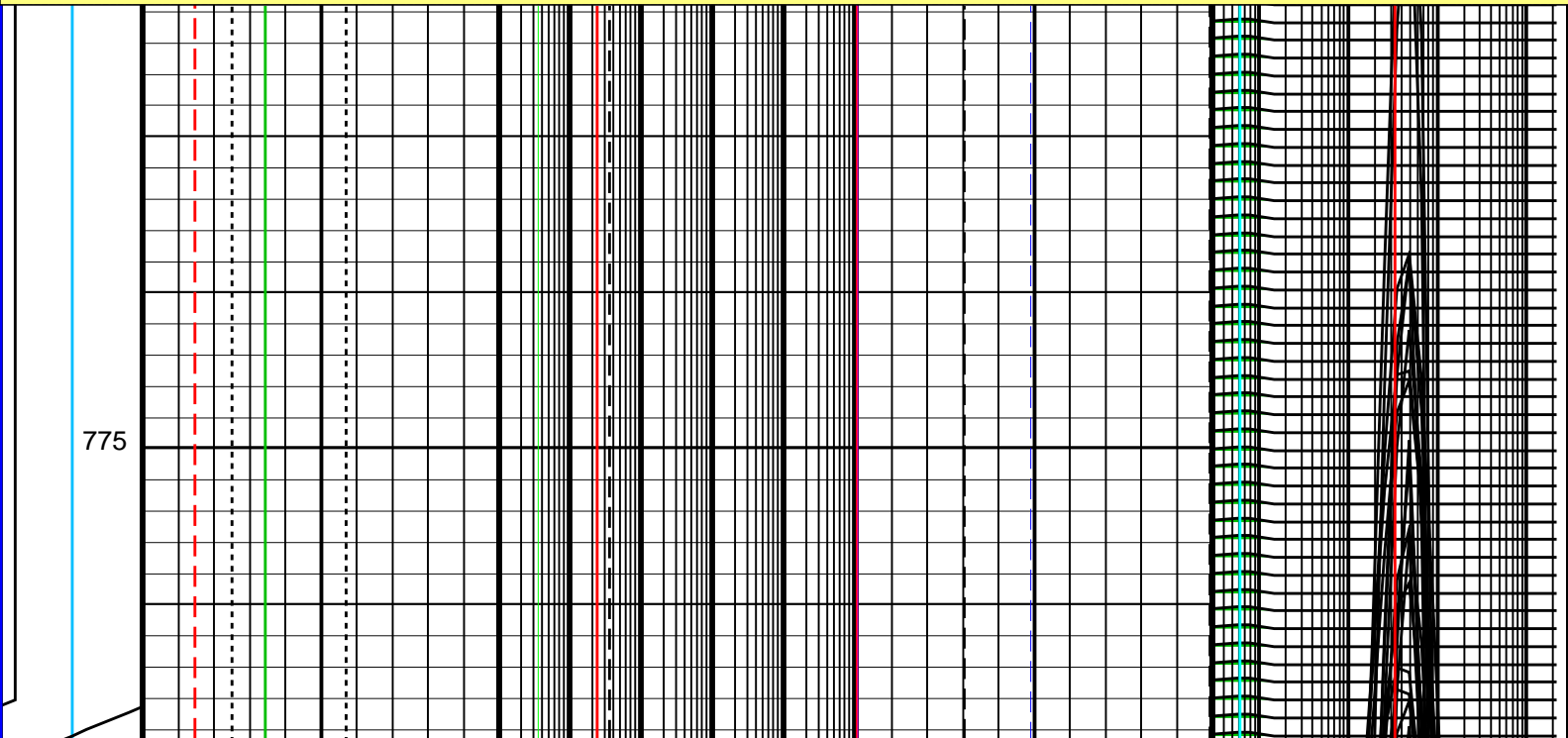
Echo Spacing(us):	(200 200)	T1: 0.5 (5.000 0.000)	T1: 5.0 (0.100 0.000)
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Polarization Times(sec) for:	T1=1s: (infinity 0.02)	T1=3s: (7.002 0.02)	T1=5s: (6.429 0.02)
Number of Echoes:	(1800 30)		
Repetition:	(1 10)	Duty Cycle (highest): 0.0282	
Regularization:	Auto		
T2 Min(msec): 0.3	T2 Max(msec): 3000	T2 Cutoff(msec): 33	T1/T2: 2
Number of Components: 30	Downhole Stacking: 3	Uphole Stacking: 1	First Echo Used: No
Multiple T2 Cutoffs(msec):	(0.3 1 3 10 33 100 300 1000 3000)		
Sample Int.(in): 7.5	Req Log Speed (f/h): 1000		

PIP SUMMARY			
Time Mark Every 60 S			

(NO_UPDATE_COUNT) 0 (----10			Capillary Bound Fluid Porosity			
			Total CMR Porosity (TCMR)			
			0.3 (V/V)		0	
Noise Out of Tolerance			Small Pore Porosity			
			Timur/Coates Permeability (KTIM)		Std. Res. Formation Pe (PEFZ)	
			0.1 (MD) 10000		0 (----10	
Caution Moderate Noise	Tension (TENS) 25000 (N) 0		SDR Permeability (KSDR)		NPOR for SAND (NPOR_SAN)	
			0.1 (MD) 10000		0.3 (V/V) 0	
	HILT Caliper (HCAL) 300 (MM) 550		AIT 90 Inch Investigation (AT90)		DPHI for SAND (DPHI_SAN)	
Insuff. WT Flag			0.1 (OHMM) 10000		0.3 (V/V) 0	
					T2 Distribution (T2_DIST_MW)	
					60 (US) 89	
Bad Hole Flag	Gamma Ray (GR) 0 (GAPI) 150		AIT 30 Inch Investigation (AT30)		CMR 3ms Porosity (CMRP_3MS)	
			0.1 (OHMM) 10000		0.3 (V/V) 0	
					T2 Logarithmic Mean (T2LM)	
	Bit Size (BS) 300 (MM) 550		Std. Res. Invaded Zone Resistivity (RXOZ)		CMR Free Fluid Porosity (CMFF)	
			0.1 (OHMM) 10000		0.3 (V/V) 0	
					Bound Fluid Cutoff (T2CUTOFF)	
					0.3 (MS) 3000	

Main Pass: Combinable Magnetic Resonance – Depth Log						
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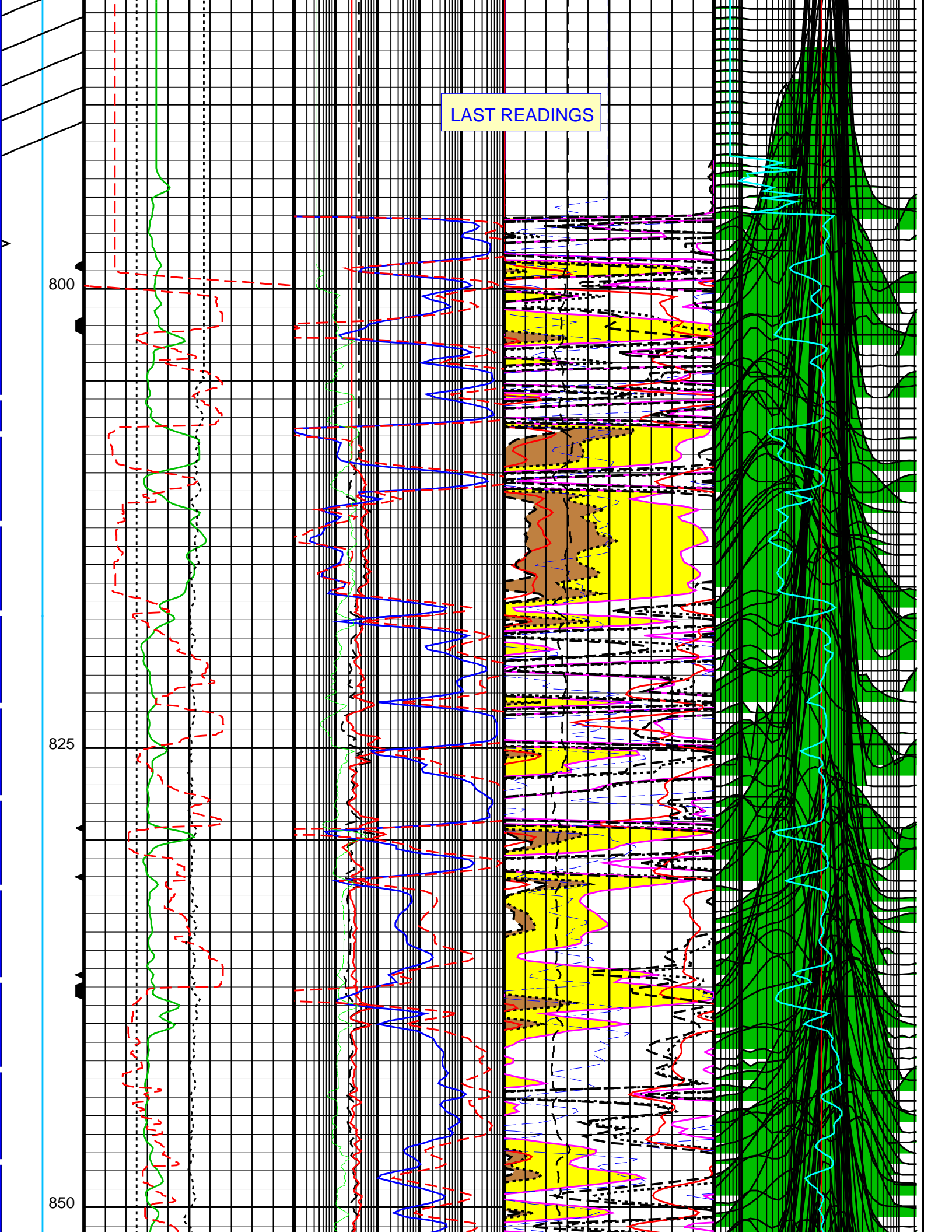


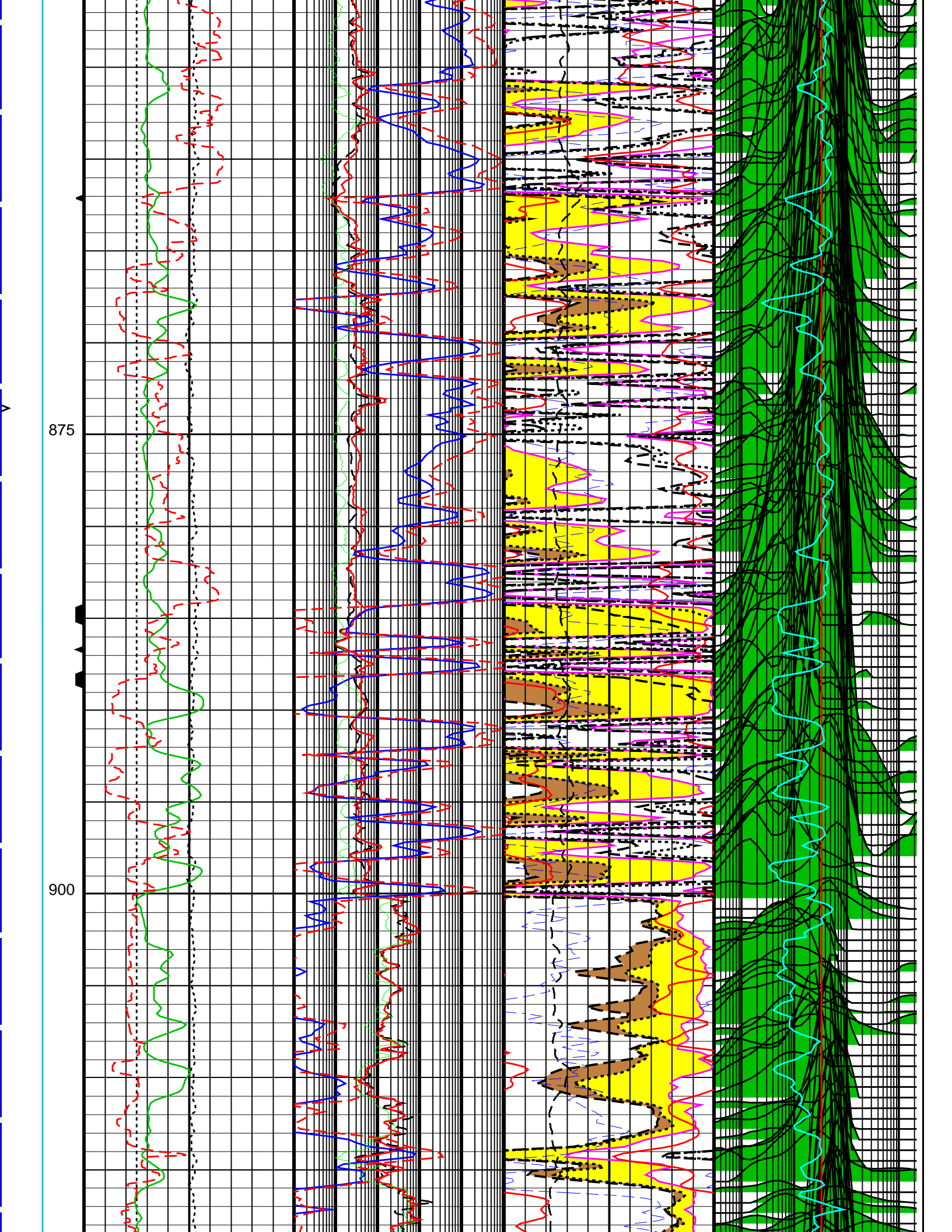
LAST READINGS

800

825

850

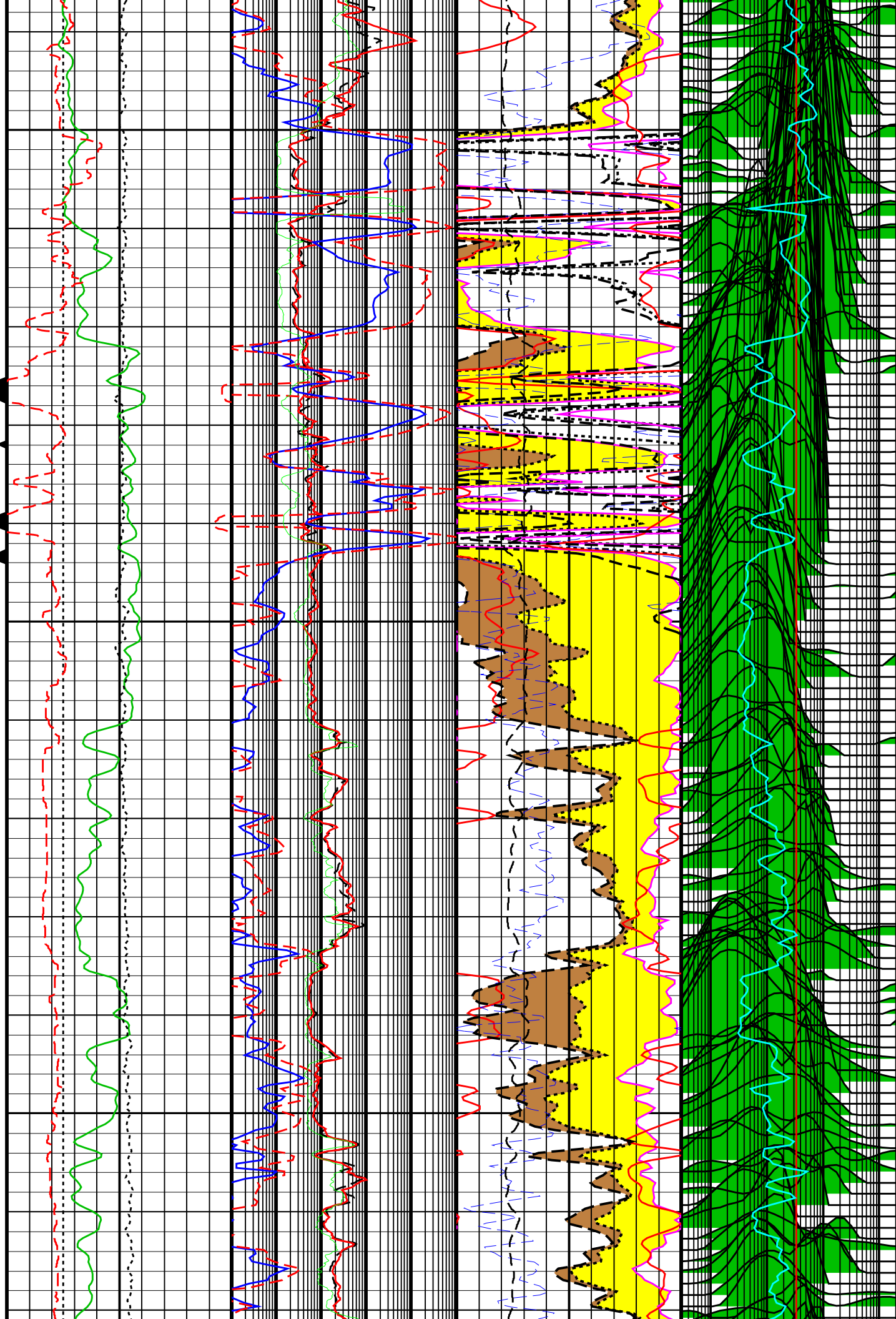


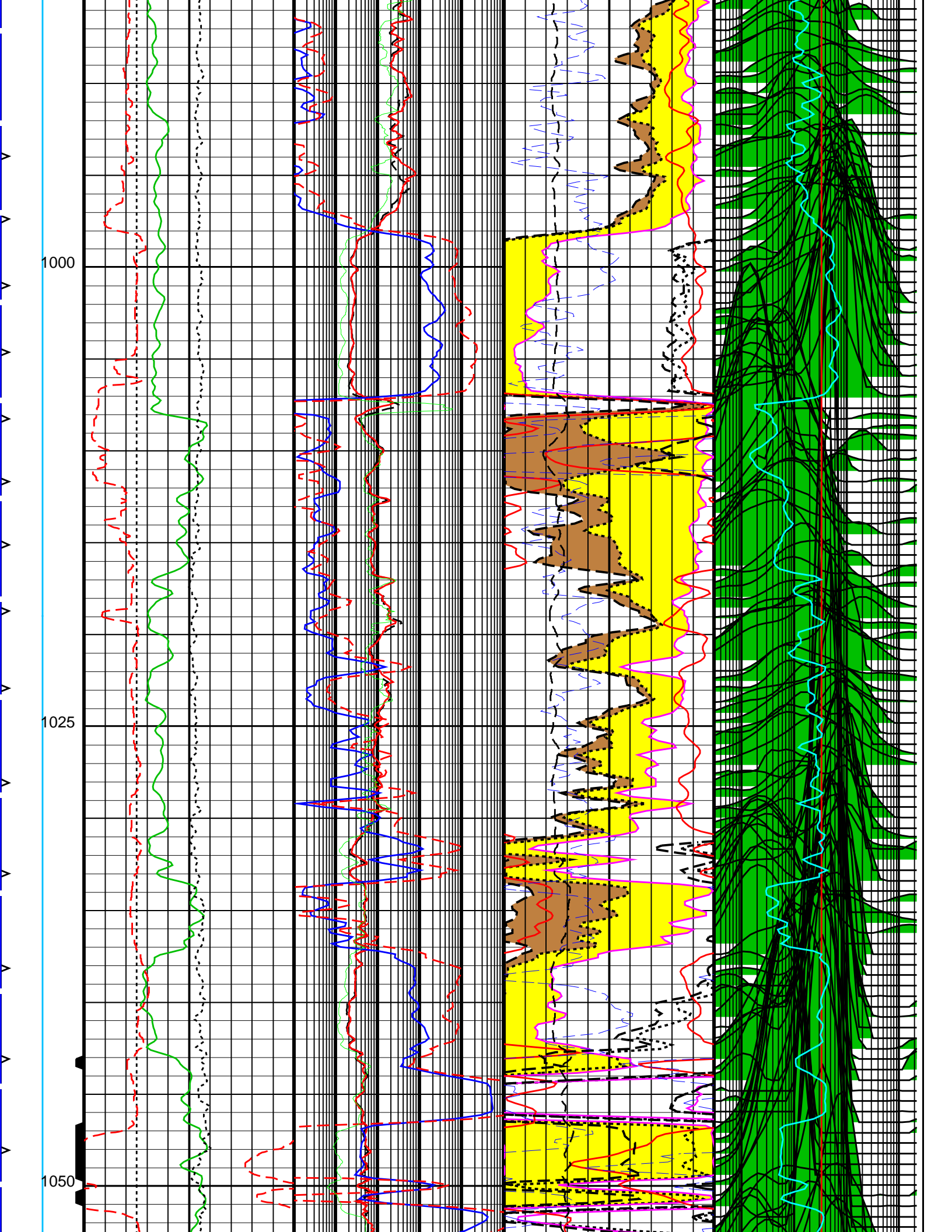


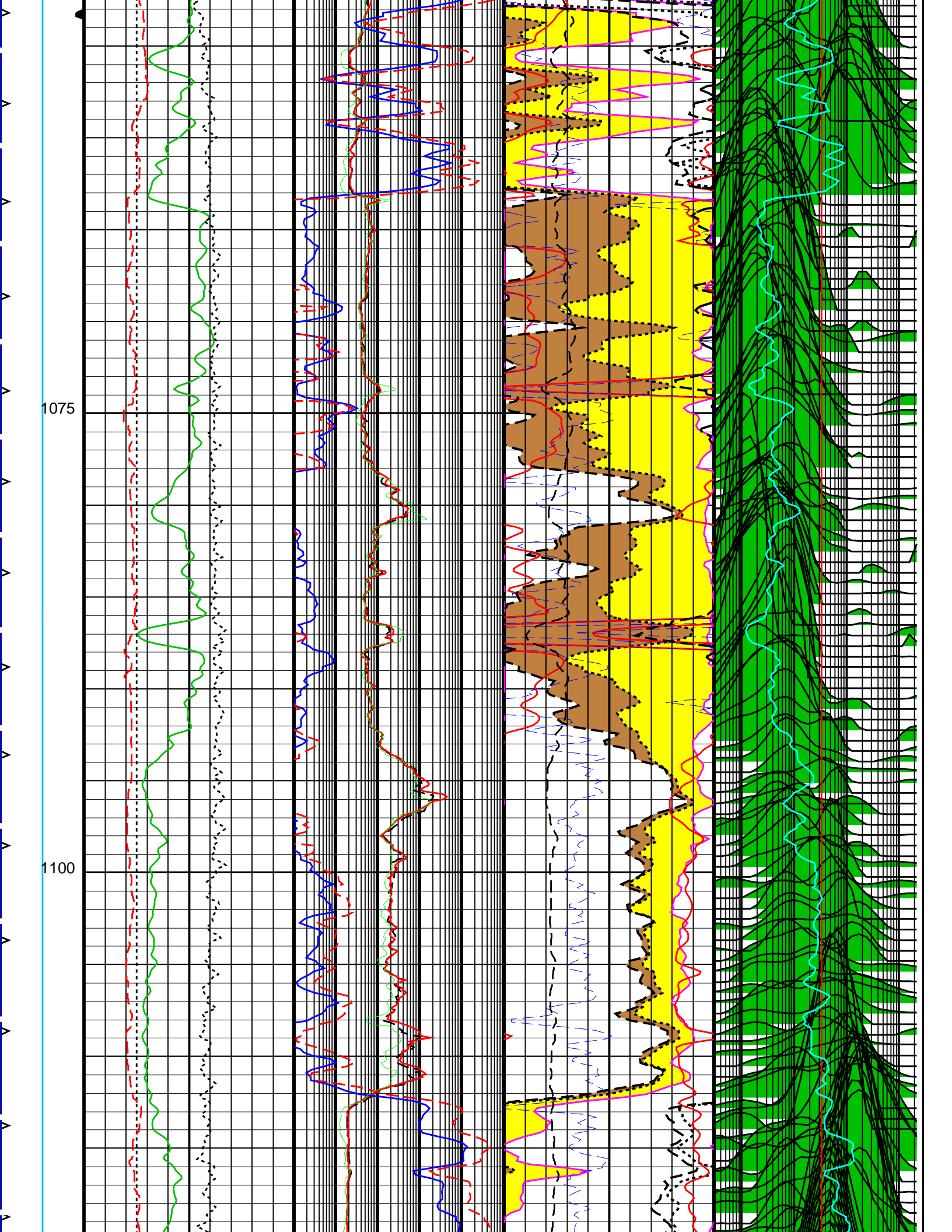
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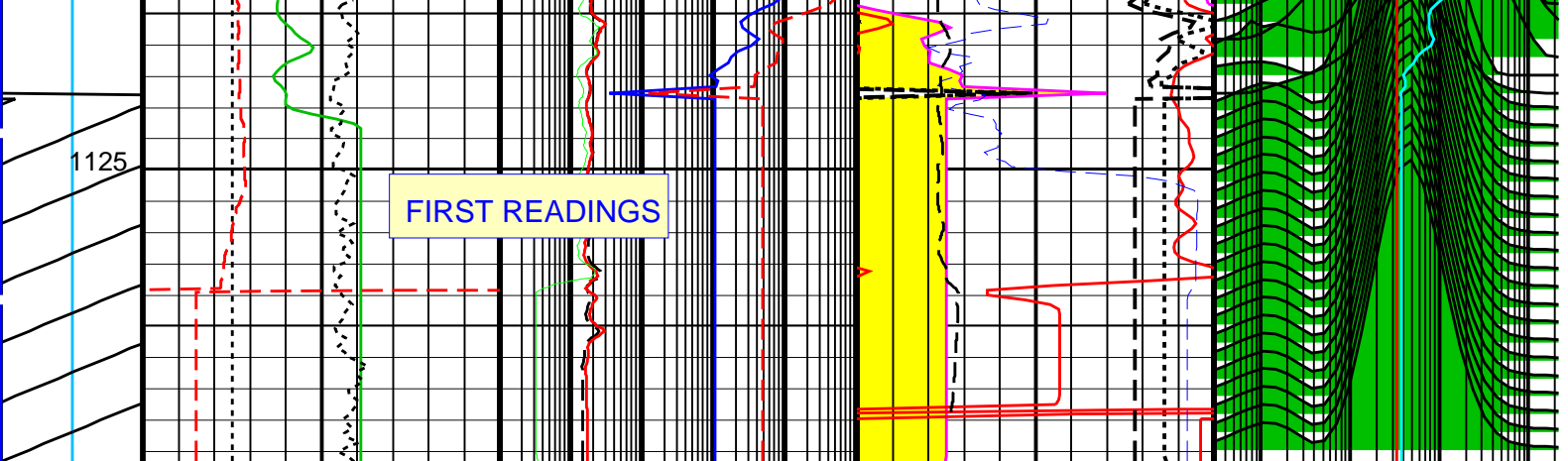
950

975









Main Pass: Combinable Magnetic Resonance – Depth Log

Bad Hole Flag	Bit Size (BS) (MM)		Std. Res. Invaded Zone Resistivity (RXOZ) (OHMM)		CMR Free Fluid Porosity (CMFF) (V/V)		Bound Fluid Cutoff (T2CUTOFF) (MS)	
	300	550	0.1	10000	0.3	0	0.3	3000
Insuff. WT Flag	Gamma Ray (GR) (GAPI)		AIT 30 Inch Investigation (AT30) (OHMM)		CMR 3ms Porosity (CMRP_3MS) (V/V)		T2 Logarithmic Mean (T2LM) (MS)	
	0	150	0.1	10000	0.3	0	0.3	3000
Caution Moderate Noise	HILT Caliper (HCAL) (MM)		AIT 90 Inch Investigation (AT90) (OHMM)		DPHI for SAND (DPHI_SAN) (V/V)		T2 Distribution (T2_DIST_MW) (US)	
	300	550	0.1	10000	0.3	0	60	89
Noise Out of Tolerance	Tension (TENS) (N)		SDR Permeability (KSDR) (MD)		NPOR for SAND (NPOR_SAN) (V/V)			
	25000	0	0.1	10000	0.3	0		
(NO_UPDATE_COUNT)			Timur/Coates Permeability (KTIM) (MD)		Std. Res. Formation Pe (PEFZ) (----			
	0	10	0.1	10000	0	10		
					Small Pore Porosity			
					Total CMR Porosity (TCMR) (V/V)			
					0.3	0		
					Capillary Bound Fluid Porosity			

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
AIT-M: Array Induction Tool – M			
ABHM	Array Induction Borehole Correction Mode	2_ComputeStandoff	
ABHV	Array Induction Borehole Correction Code Version Number	880	
ABLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
ABLV	Array Induction Basic Logs Code Version Number	108	
ACDE	Array Induction Casing Detection Enable	Yes	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
ACSED	Array Induction Casing Shoe Estimated Depth	678.485	M
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes	
AFRSV	Array Induction Response Set Version for Four ft Resolution	40.70.24.21	
AIGS	Array Induction Select Akima Interpolation Gating	On	
AMRF	Array Induction Mud Resistivity Factor	1	
AORSV	Array Induction Response Set Version for One ft Resolution	40.70.24.21	
ARFV	Array Induction Radial Profiling Code Version Number	700	
ARPV	Array Induction Radial Parametrization Code Version Number	223	
ASTA	Array Induction Tool Standoff	64	MM
ATRSV	Array Induction Response Set Version for Two ft Resolution	40.70.24.21	
ATSE	Array Induction Temperature Selection(Sonde Error Correction)	Internal	
AULV	Array Induction User Level Control	Normal	

BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9.4	DEGC
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	0	DEGC
HILTH-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9.4	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
FD	Fluid Density	1000	K/M3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MPOF	MCFL Processing Operation Mode	ON	
MWCO	Mud Weight Correction Option	NO	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	HiRes	
NSAR	HRDD Depth Sampling Rate	25.4	MM
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	0	DEGC
SOCN	Standoff Distance	3.175	MM
SOCO	Standoff Correction Option	YES	
CMRT-B: Combinable Magnetic Resonance Tool - B			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9.4	DEGC
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	0	DEGC
STI: Stuck Tool Indicator			
TDL	Total Depth - Logger	1133.00	M
System and Miscellaneous			
BS	Bit Size	361.950	MM
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	339.700	MM
CWEI	Casing Weight	81.11	KG/M
DFD	Drilling Fluid Density	1120.00	K/M3
DO	Depth Offset for Playback	0.4	M
MST	Mud Sample Temperature	20.50	DEGC
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	0.1500	OHMM
TD	Total Depth	1147	M

Format: CMR_LOG_D240 Vertical Scale: 1:240 Graphics File Created: 03-Mar-2007 10:31

OP System Version: 14C0-302

MCM

AIT-M	14C0-302	HILTH-FTB	14C0-302
CMRT-B	SPC-3239-CMR	EMS-B	14C0-302
DTC-H	14C0-302		

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_048LUP	FN:55	PRODUCER	03-Mar-2007 08:10	1133.9 M	781.5 M
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_065PUP	FN:74	PRODUCER	03-Mar-2007 10:31
CUST	AIT TLD MCFL CNL 065PUP	FN:75	PRODUCER	03-Mar-2007 10:31



REPEAT PASS: CMR LOG

MAXIS Field Log

Company: JOGMEC

Well: AURORA/JOGMEC/NRCAN MALLIK 2L-38

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_061LUP	FN:69	PRODUCER	03-Mar-2007 09:38	1071.7 M	620.9 M
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_067PUP	FN:78	PRODUCER	03-Mar-2007 10:38	1050.0 M	928.4 M
CUST	AIT_TLD_MCFL_CNL_067PUP	FN:79	PRODUCER	03-Mar-2007 10:38	1050.0 M	928.4 M

CMR DEPTH LOG REPORT

PARAMETER SUMMARY

Tool Type: CMR-Plus	Cart. Number: 202	Sonde Number: 182	
Kit Number: 28	DHC Version : 16.4	DSP Version : 13	SP Version : 2062001
Mode: Expert Depth Log - B Mode		LFST Freq(khz) : 2264	LFST Temp(degc) : 8.57
Log Direction: Up	Polarization Correction: On	EPM: Yes	EPM T1/T2: Auto
Despiking: Off	High Res: Off	KBFV: Off	DMRP: Off
Echo Spacing(us):	(200 200)		
Polarization Times(sec) for:	T1=1s: (infinity 0.02)	T1=3s: (7.002 0.02)	T1=5s: (6.429 0.02)
Number of Echoes:	(1800 30)		
Repetition:	(1 10)	Duty Cycle (highest): 0.0282	
Regularization:	Auto		
T2 Min(msec): 0.3	T2 Max(msec): 3000	T2 Cutoff(msec): 33	T1/T2: 2
Number of Components: 30	Downhole Stacking: 3	Uphole Stacking: 1	First Echo Used: No
Multiple T2 Cutoffs(msec):	(0.3 1 3 10 33 100 300 1000 3000)		
Sample Int.(in): 7.5	Req Log Speed (f/h): 1000		

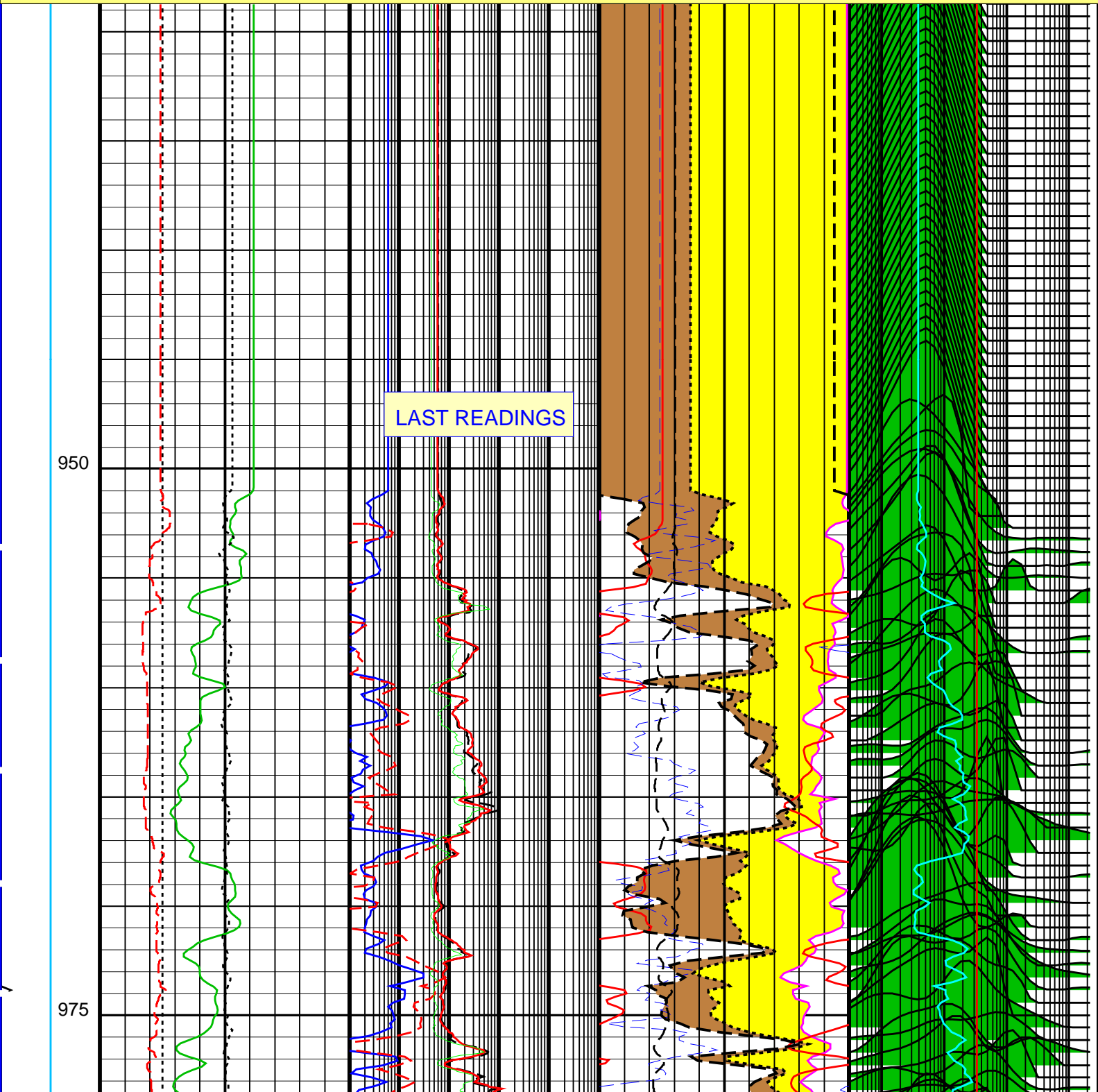
PIP SUMMARY

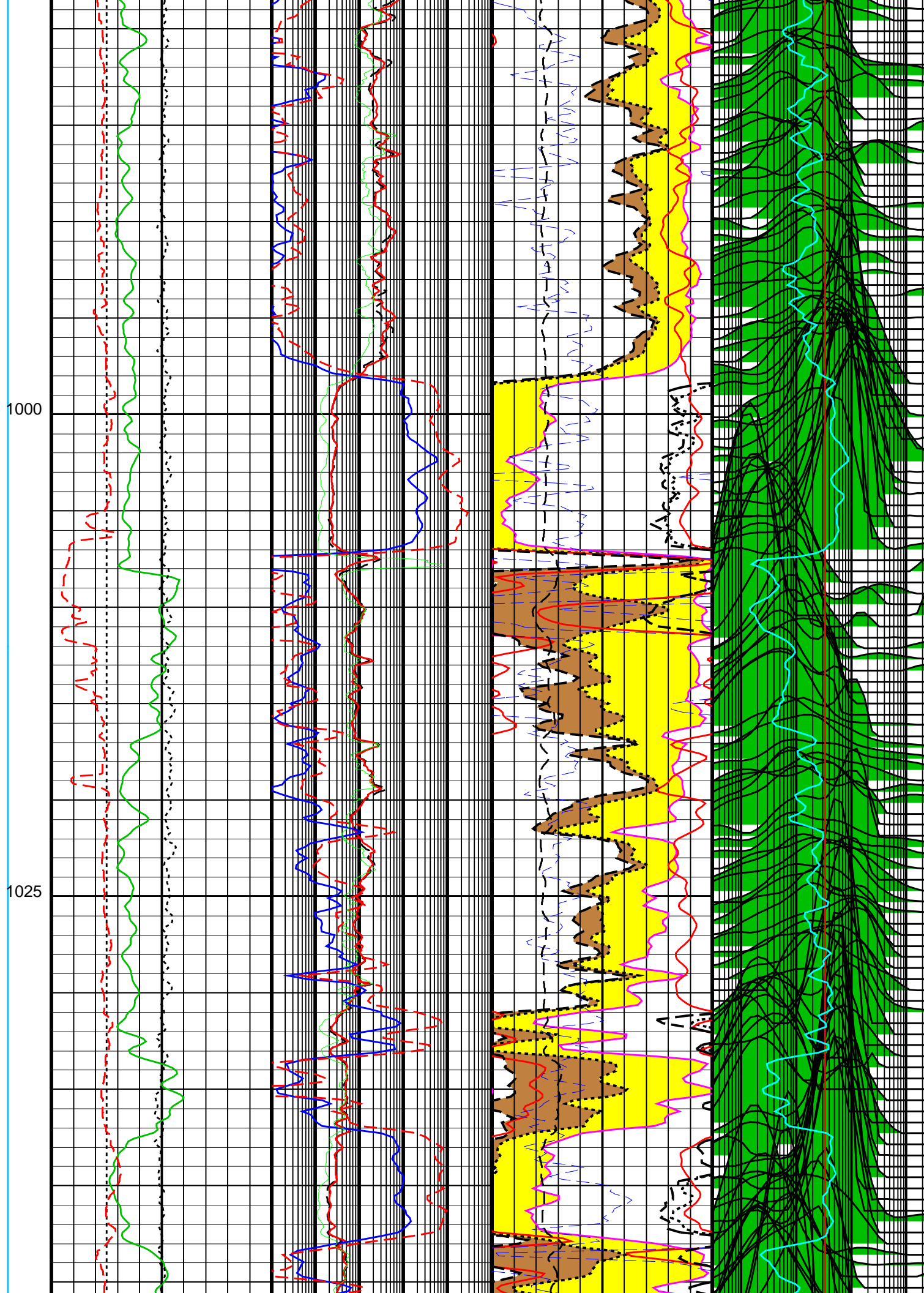
Time Mark Every 60 S

			Capillary Bound Fluid Porosity	
			Total CMR Porosity (TCMR)	
			0.3 (V/V)	0
(NO_UPDATE_COUNT) 0 (----10			Small Pore Porosity	
	Timur/Coates Permeability (KTIM)		Std. Res. Formation Pe (PEFZ)	
	0.1 (MD)	10000	0 (----	10

Noise Out of Tolerance	Tension (TENS) 25000 (N) 0	SDR Permeability (KSDR) 0.1 (MD) 10000	NPOR for SAND (NPOR_SAN) 0.3 (V/V) 0	
Caution Moderate Noise	HILT Caliper (HCAL) 300 (MM) 550	AIT 90 Inch Investigation (AT90) 0.1 (OHMM) 10000	DPHI for SAND (DPHI_SAN) 0.3 (V/V) 0	T2 Distribution (T2_DIST_MW) 60 (US) 89
Insuff. WT Flag	Gamma Ray (GR) 0 (GAPI) 150	AIT 30 Inch Investigation (AT30) 0.1 (OHMM) 10000	CMR 3ms Porosity (CMRP_3MS) 0.3 (V/V) 0	T2 Logarithmic Mean (T2LM) 0.3 (MS) 3000
Bad Hole Flag	Bit Size (BS) 300 (MM) 550	Std. Res. Invaded Zone Resistivity (RXOZ) 0.1 (OHMM) 10000	CMR Free Fluid Porosity (CMFF) 0.3 (V/V) 0	Bound Fluid Cutoff (T2CUTOFF) 0.3 (MS) 3000

Main Pass: Combinable Magnetic Resonance – Depth Log





FIRST READINGS

Main Pass: Combinable Magnetic Resonance – Depth Log

Bad Hole Flag	Bit Size (BS) (MM)		Std. Res. Invaded Zone Resistivity (RXOZ)		CMR Free Fluid Porosity (CMFF)		Bound Fluid Cutoff (T2CUTOFF)	
	300	550	0.1	10000	0.3	0	0.3	3000
Insuff. WT Flag	Gamma Ray (GR)		AIT 30 Inch Investigation (AT30)		CMR 3ms Porosity (CMRP_3MS)		T2 Logarithmic Mean (T2LM)	
	0	150	0.1	10000	0.3	0	0.3	3000
Caution Moderate Noise	HILT Caliper (HCAL)		AIT 90 Inch Investigation (AT90)		DPHI for SAND (DPHI_SAN)		T2 Distribution (T2_DIST_MW)	
	300	550	0.1	10000	0.3	0	60	89
Noise Out of Tolerance	Tension (TENS)		SDR Permeability (KSDR)		NPOR for SAND (NPOR_SAN)			
	25000	0	0.1	10000	0.3	0		
(NO_UPDATE_COUNT)			Timur/Coates Permeability (KTIM)		Std. Res. Formation Pe (PEFZ)			
0 (----10)			0.1	10000	0	10		
					Small Pore Porosity			
					Total CMR Porosity (TCMR)			
					0.3	(V/V)	0	
					Capillary Bound Fluid Porosity			

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
AIT-M: Array Induction Tool – M			
ABHM	Array Induction Borehole Correction Mode	2_ComputeStandoff	
ABHV	Array Induction Borehole Correction Code Version Number	880	
ABLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
ABLV	Array Induction Basic Logs Code Version Number	108	
ACDE	Array Induction Casing Detection Enable	Yes	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
ACSED	Array Induction Casing Shoe Estimated Depth	678.485	M
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes	
AFRSV	Array Induction Response Set Version for Four ft Resolution	40.70.24.21	
AIGS	Array Induction Select Akima Interpolation Gating	On	
AMRF	Array Induction Mud Resistivity Factor	1	
AORSV	Array Induction Response Set Version for One ft Resolution	40.70.24.21	
ARFV	Array Induction Radial Profiling Code Version Number	700	
ARPV	Array Induction Radial Parametrization Code Version Number	223	
ASTA	Array Induction Tool Standoff	64	MM
ATRSV	Array Induction Response Set Version for Two ft Resolution	40.70.24.21	
ATSE	Array Induction Temperature Selection(Sonde Error Correction)	Internal	
AULV	Array Induction User Level Control	Normal	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9.4	DEGC
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	0	DEGC
HILTH-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	

BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9.4	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
FD	Fluid Density	1000	K/M3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MPOF	MCFL Processing Operation Mode	ON	
MWCO	Mud Weight Correction Option	NO	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	HiRes	
NSAR	HRDD Depth Sampling Rate	25.4	MM
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	0	DEGC
SOCN	Standoff Distance	3.175	MM
SOCO	Standoff Correction Option	YES	
CMRT-B: Combinable Magnetic Resonance Tool - B			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9.4	DEGC
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	0	DEGC
STI: Stuck Tool Indicator			
TDL	Total Depth - Logger	1133.00	M
System and Miscellaneous			
BS	Bit Size	361.950	MM
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	339.700	MM
CWEI	Casing Weight	81.11	KG/M
DFD	Drilling Fluid Density	1120.00	K/M3
DO	Depth Offset for Playback	0.7	M
MST	Mud Sample Temperature	20.50	DEGC
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	0.1500	OHMM
TD	Total Depth	1147	M

Format: CMR_LOG_D240 Vertical Scale: 1:240 Graphics File Created: 03-Mar-2007 10:38

OP System Version: 14C0-302

MCM

AIT-M	14C0-302	HILTH-FTB	14C0-302
CMRT-B	SPC-3239-CMR	EMS-B	14C0-302
DTC-H	14C0-302		

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_061LUP	FN:69	PRODUCER	03-Mar-2007 09:38	1071.7 M	620.9 M
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_067PUP	FN:78	PRODUCER	03-Mar-2007 10:38
CUST	AIT_TLD_MCFL_CNL_067PUP	FN:79	PRODUCER	03-Mar-2007 10:38

Schlumberger

**MAIN PASS:
GAS CORRECTED CMR LOG**

Company: JOGMEC

Well: AURORA/JOGMEC/NRCAN MALLIK 2L-38

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_065PUP	FN:74	PRODUCER	03-Mar-2007 10:31	1134.3 M	760.5 M
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Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_072PUP	FN:87	PRODUCER	03-Mar-2007 11:03	1134.3 M	844.6 M
CUST	AIT_TLD_MCFL_CNL_072PUP	FN:88	PRODUCER	03-Mar-2007 11:03	1134.3 M	844.6 M

CMR DEPTH LOG REPORT

PARAMETER SUMMARY

Tool Type: CMR-Plus	Cart. Number: 202	Sonde Number: 182	
Kit Number: 28	DHC Version : 16.4	DSP Version : 13	SP Version : 2062001
Mode: Expert Depth Log – B Mode		LFST Freq(khz) : 2264	LFST Temp(deg) : 8.57

Log Direction: Up	Polarization Correction: On	EPM: Yes	EPM T1/T2: Auto
Despiking: Off	High Res: Off	KBFV: Off	DMRP: On
Echo Spacing(us):	(200 200)		
Polarization Times(sec) for:	T1=1s: (infinity 0.02)	T1=3s: (7.002 0.02)	T1=5s: (6.429 0.02)
Number of Echoes:	(1800 30)		
Repetition:	(1 10)	Duty Cycle (highest): 0.0282	
Regularization:	Auto		
T2 Min(msec): 0.3	T2 Max(msec): 3000	T2 Cutoff(msec): 33	T1/T2: 2
Number of Components: 30	Downhole Stacking: 3	Uphole Stacking: 1	First Echo Used: No
Multiple T2 Cutoffs(msec):	(0.3 1 3 10 33 100 300 1000 3000)		
Sample Int.(in): 7.5	Req Log Speed (f/h): 1000		

DMRP PARAMETERS

60/40 rule: Yes

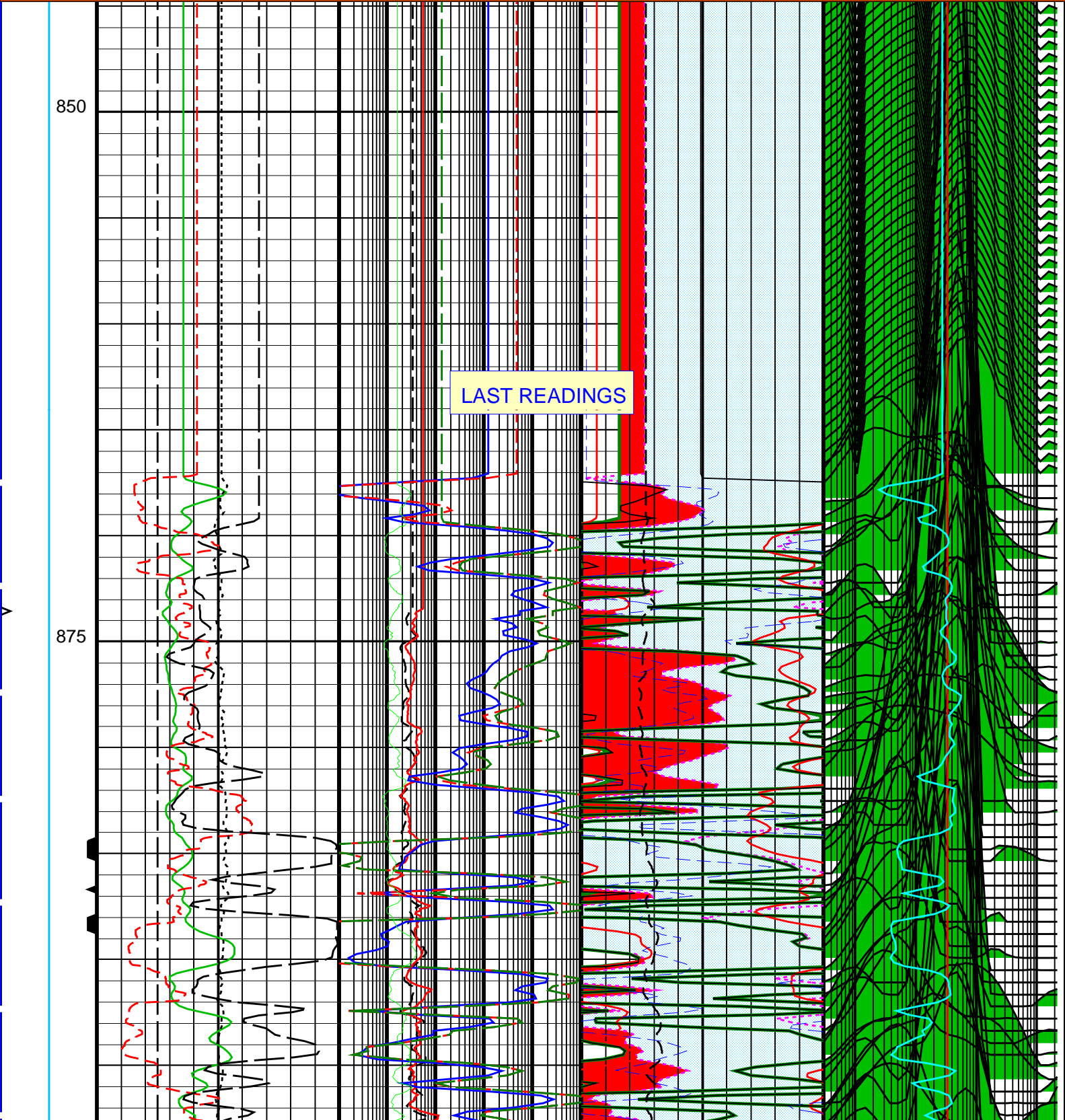
PIP SUMMARY

Time Mark Every 60 S

		Bound Fluid	
		Gas Corrected Free Fluid	
		DMR Gas Corrected Permeability (KDMR)	Total CMR Porosity (TCMR)
		0.1 (MD) 10000	0.3 (V/V) 0
(NO_UPDATE_COUNT)	Tension (TENS)	Timur/Coates Permeability (KTIM)	Std. Res. Formation Pe (PEFZ)
0 (----10)	25000 (N) 0	0.1 (MD) 10000	0 (----10)
Noise Out of Tolerance	Gas Corrected Swirr (LC01)	SDR Permeability (KSDR)	NPOR for SAND (NPOR_SAN)
	0 (----100)	0.1 (MD) 10000	0.3 (V/V) 0

Caution Moderate Noise	<u>HILT Caliper (HCAL)</u> (MM)	<u>AIT 90 Inch Investigation</u> (AT90)	<u>DPHI for SAND (DPHI_SAN)</u>	<u>T2 Distribution (T2_DIST_MW)</u>
	300 ————— 550	0.1 ————— 10000	0.3 ————— 0	60 ————— 89
		(OHMM)	(V/V)	(US)
Insuff. WT Flag	<u>Gamma Ray (GR)</u> (GAPI)	<u>AIT 30 Inch Investigation</u> (AT30)	<u>Density Magnetic Resonance</u> (DMR) Gas Corrected Porosity (DMRP)	<u>T2 Logarithmic Mean (T2LM)</u>
	0 ————— 150	0.1 ————— 10000	0.3 ————— 0	0.3 ————— 3000
		(OHMM)	(V/V)	(MS)
Bad Hole Flag	<u>Bit Size (BS)</u> (MM)	<u>Std. Res. Invaded Zone</u> Resistivity (RXOZ)	<u>Total Bound Fluid Porosity</u> (BFV)	<u>Bound Fluid Cutoff</u> (T2CUTOFF)
	300 ————— 550	0.1 ————— 10000	0.3 ————— 0	0.3 ————— 3000
		(OHMM)	(V/V)	(MS)

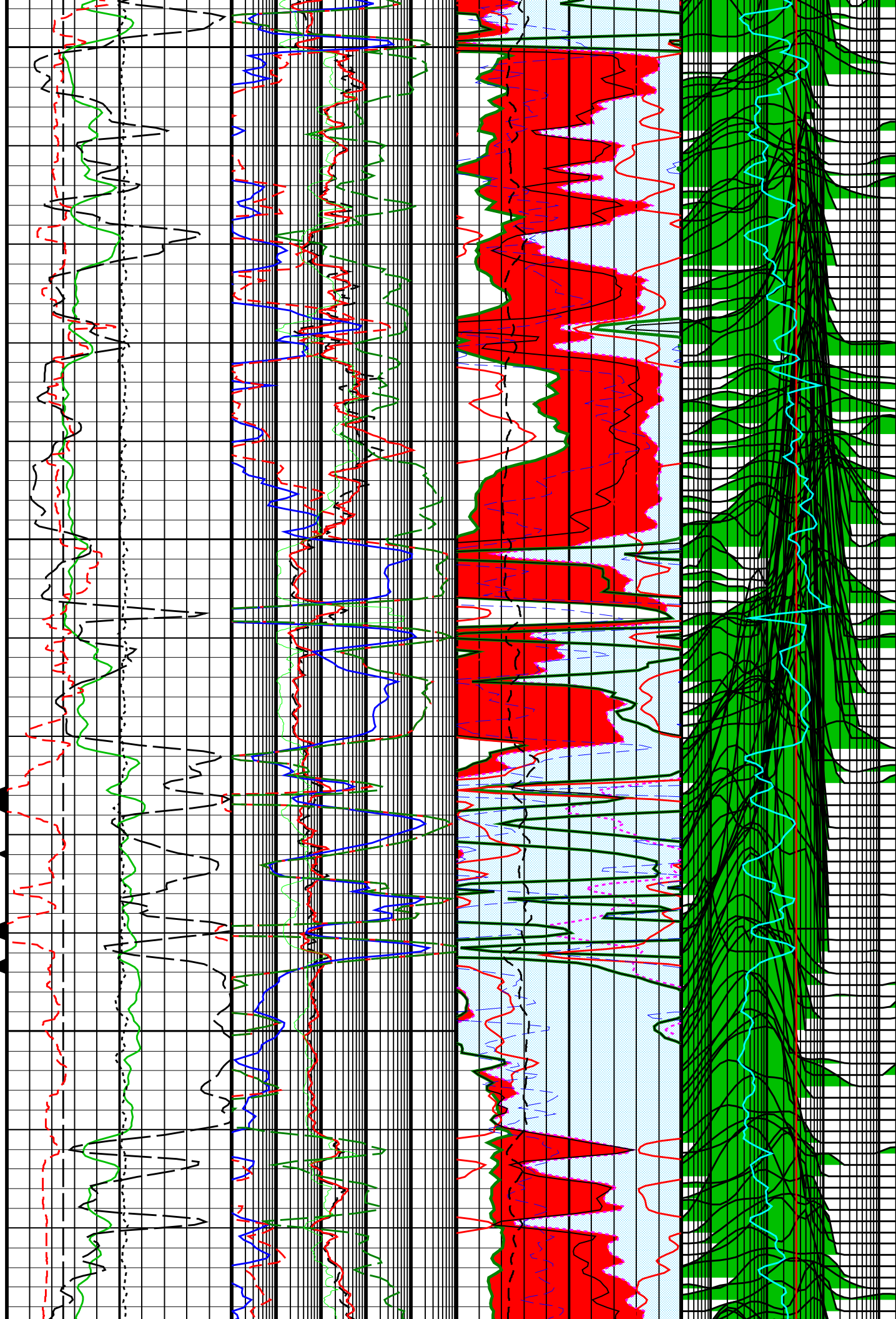
Density–Magnetic Resonance (DMR) Gas Corrected Porosity Quicklook

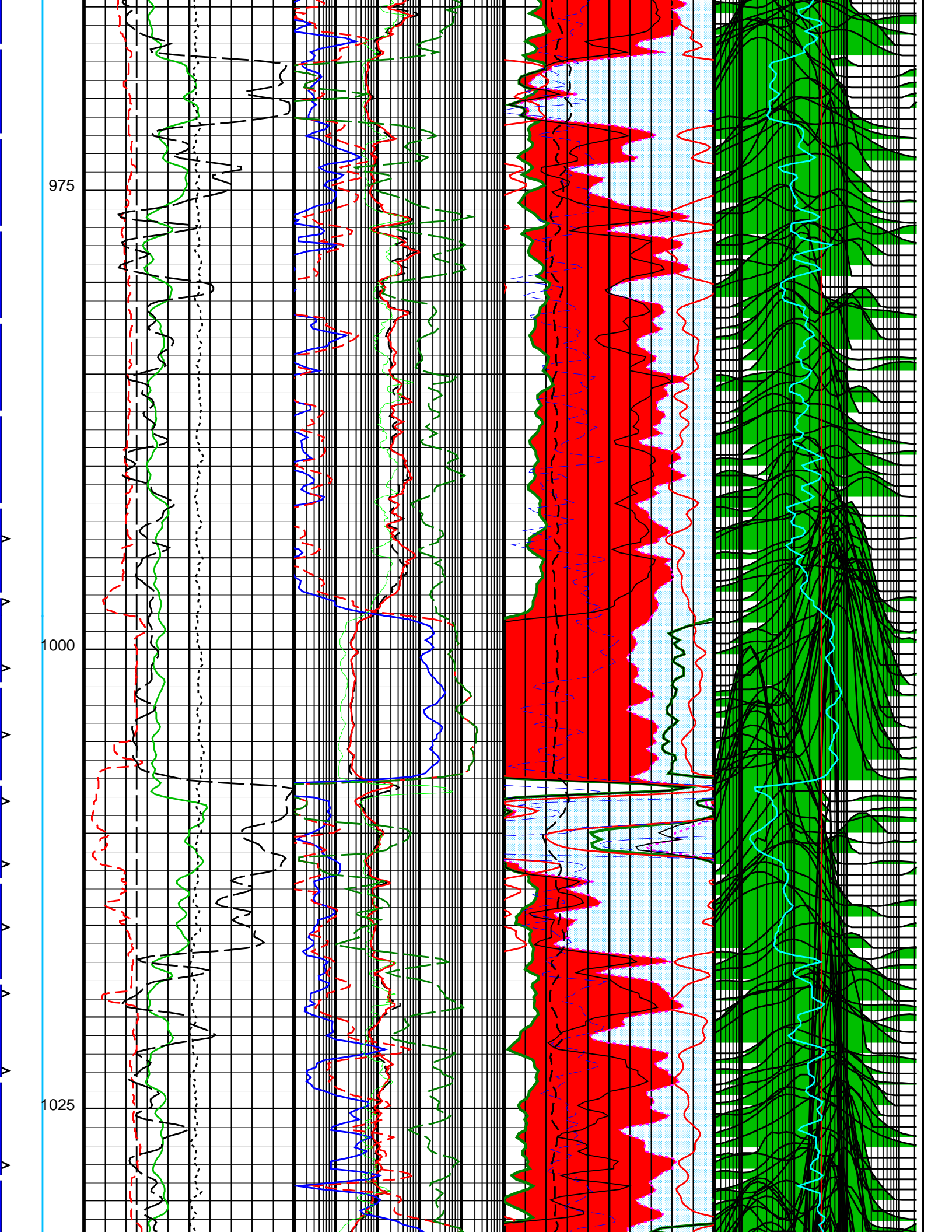


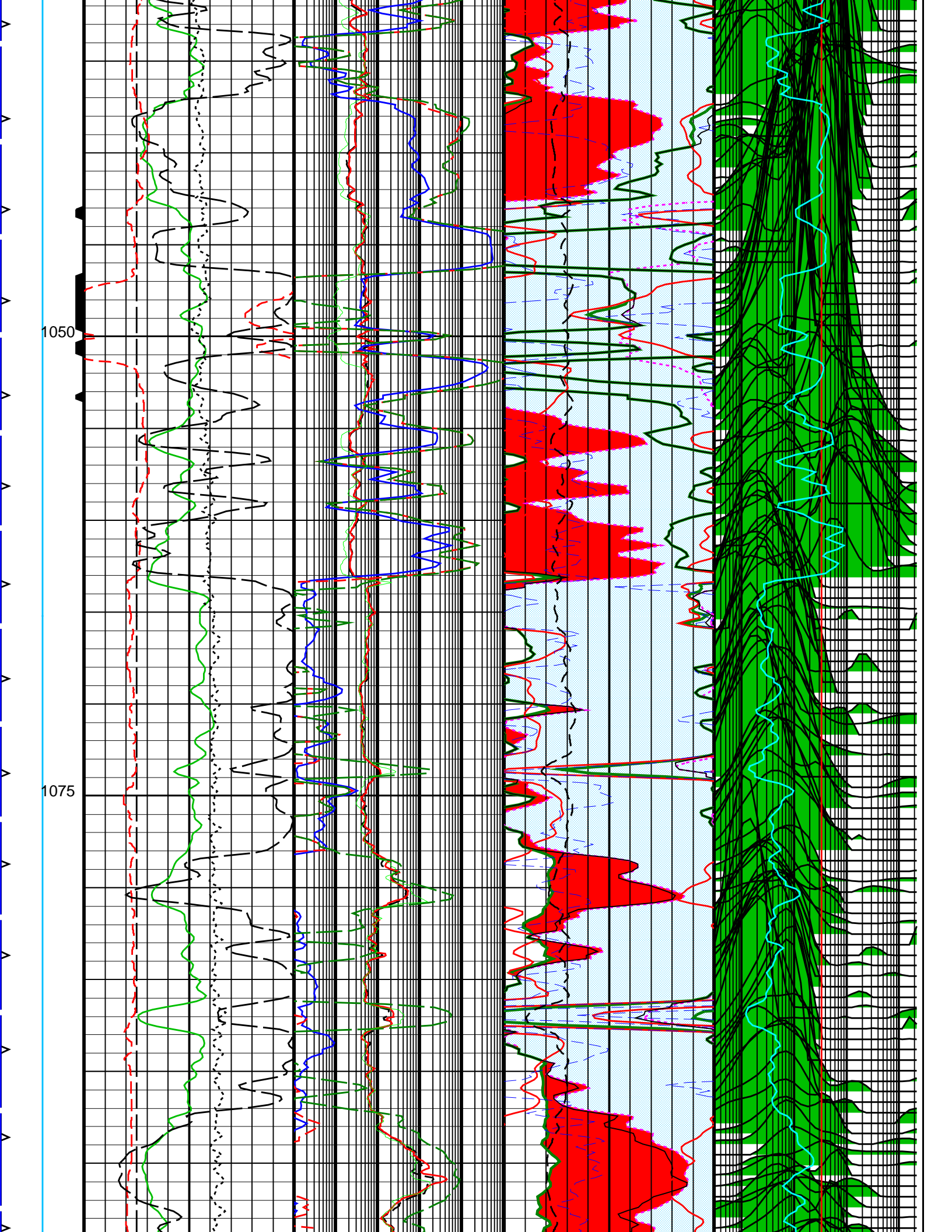
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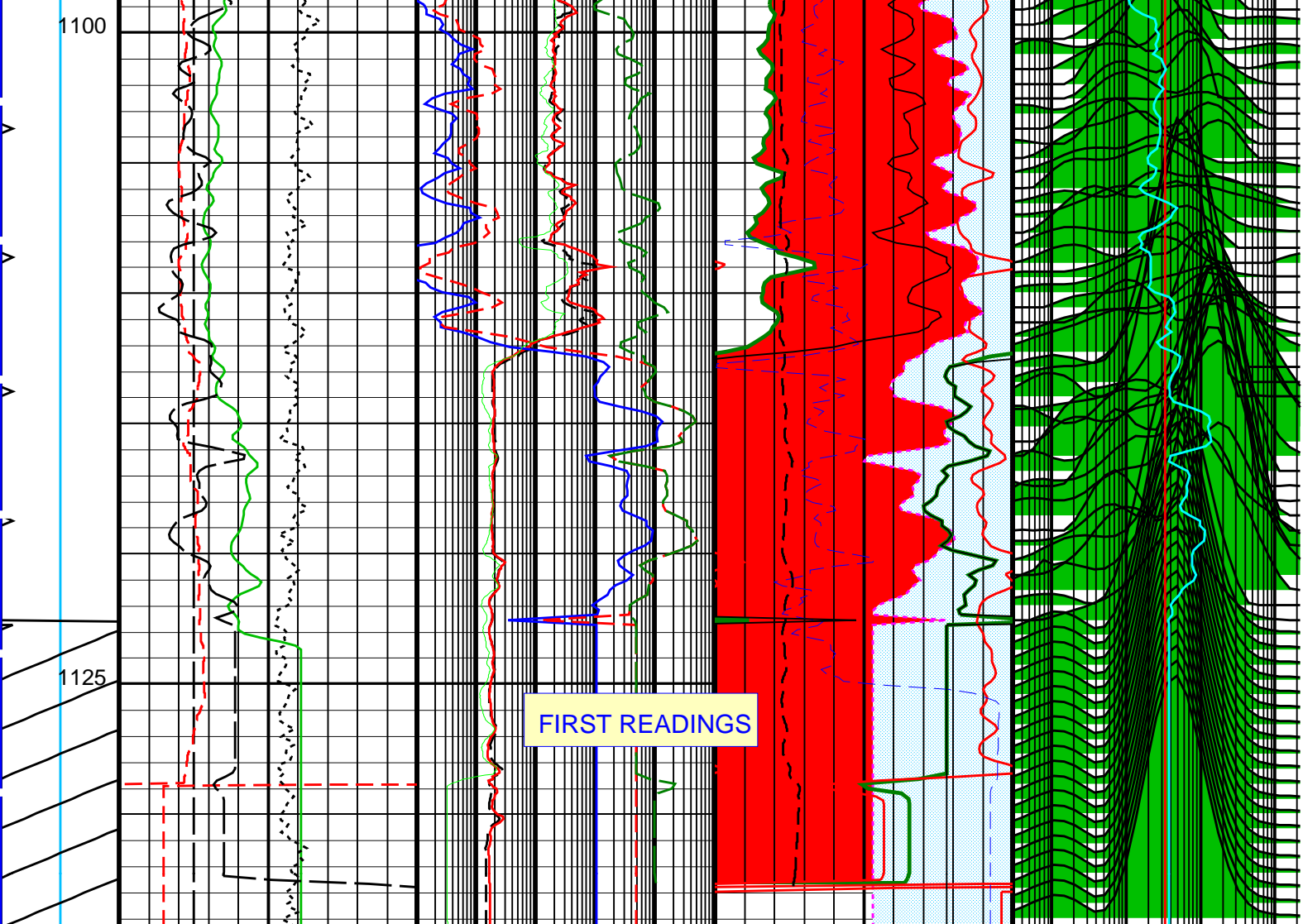
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950









Density-Magnetic Resonance (DMR) Gas Corrected Porosity Quicklook

Bad Hole Flag	Bit Size (BS) (MM)	Std. Res. Invaded Zone Resistivity (RXOZ) (OHMM)	Total Bound Fluid Porosity (BFV) (V/V)	Bound Fluid Cutoff (T2CUTOFF) (MS)
Insuff. WT Flag	Gamma Ray (GR) (GAPI)	AIT 30 Inch Investigation (AT30) (OHMM)	Density Magnetic Resonance (DMR) Gas Corrected Porosity (DMRP) (V/V)	T2 Logarithmic Mean (T2LM) (MS)
Caution Moderate Noise	HILT Caliper (HCAL) (MM)	AIT 90 Inch Investigation (AT90) (OHMM)	DPHI for SAND (DPHI_SAN) (V/V)	T2 Distribution (T2_DIST_MW) (US)
Noise Out of Tolerance	Gas Corrected Swirr (LC01) (----)	SDR Permeability (KSDR) (MD)	NPOR for SAND (NPOR_SAN) (V/V)	
(NO_UPDATE_COUNT)	Tension (TENS) (N)	Timur/Coates Permeability (KTIM) (MD)	Std. Res. Formation Pe (PEFZ) (----)	
		DMR Gas Corrected Permeability (KDMR) (MD)	Total CMR Porosity (TCMR) (V/V)	
			Gas Corrected Free Fluid	
			Bound Fluid	

Parameters

DLIS Name	Description	Value	
AIT-M: Array Induction Tool - M			
ABHM	Array Induction Borehole Correction Mode	2_ComputeStandoff	
ABHV	Array Induction Borehole Correction Code Version Number	880	
ABLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
ABLV	Array Induction Basic Logs Code Version Number	108	
ACDE	Array Induction Casing Detection Enable	Yes	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
ACSED	Array Induction Casing Shoe Estimated Depth	-50000	M
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes	
AFRSV	Array Induction Response Set Version for Four ft Resolution	40.70.24.21	
AIGS	Array Induction Select Akima Interpolation Gating	On	
AMRF	Array Induction Mud Resistivity Factor	1	
AORSV	Array Induction Response Set Version for One ft Resolution	40.70.24.21	
ARFV	Array Induction Radial Profiling Code Version Number	700	
ARPV	Array Induction Radial Parametrization Code Version Number	223	
ASTA	Array Induction Tool Standoff	64	MM
ATRSV	Array Induction Response Set Version for Two ft Resolution	40.70.24.21	
ATSE	Array Induction Temperature Selection(Sonde Error Correction)	Internal	
AULV	Array Induction User Level Control	Normal	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9.4	DEGC
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	0	DEGC
HILTH-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9.4	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
FD	Fluid Density	1000	K/M3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MPOF	MCFL Processing Operation Mode	ON	
MWCO	Mud Weight Correction Option	NO	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	HiRes	
NSAR	HRDD Depth Sampling Rate	25.4	MM
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	0	DEGC
SOCN	Standoff Distance	3.175	MM
SOCO	Standoff Correction Option	YES	
CMRT-B: Combinable Magnetic Resonance Tool - B			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9.4	DEGC
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	0	DEGC
STI: Stuck Tool Indicator			
TDL	Total Depth - Logger	1133.00	M
System and Miscellaneous			
BS	Bit Size	361.950	MM
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	339.700	MM

CWEI	Casing Weight	81.11	KG/M
DFD	Drilling Fluid Density	1120.00	K/M3
DO	Depth Offset for Playback	0.0	M
MST	Mud Sample Temperature	20.50	DEGC
PP	Playback Processing	RECOMPUTE	
RMFS	Resistivity of Mud Filtrate Sample	0.1500	OHMM
TD	Total Depth	1147	M

Format: CMR_LOG_GC_D240 Vertical Scale: 1:240 Graphics File Created: 03-Mar-2007 11:03

OP System Version: 14C0-302

MCM

AIT-M	14C0-302	HILTH-FTB	14C0-302
CMRT-B	SPC-3239-CMR	EMS-B	14C0-302
DTC-H	14C0-302		

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_065PUP	FN:74	PRODUCER	03-Mar-2007 10:31	1134.3 M	760.5 M
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Output DLIS Files

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CUST	AIT_TLD_MCFL_CNL_072PUP	FN:88	PRODUCER	03-Mar-2007 11:03		

Schlumberger

REPEAT PASS: GAS CORRECTED CMR LOG

MAXIS Field Log

Company: JOGMEC Well: AURORA/JOGMEC/NRCAN MALLIK 2L-38

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_067PUP	FN:78	PRODUCER	03-Mar-2007 10:38	1050.0 M	928.4 M
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Output DLIS Files

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CUST	AIT_TLD_MCFL_CNL_074PUP	FN:92	PRODUCER	03-Mar-2007 11:08	1050.0 M	907.4 M

CMR DEPTH LOG REPORT

PARAMETER SUMMARY

Tool Type: CMR-Plus	Cart. Number: 202	Sonde Number: 182	
Kit Number: 28	DHC Version : 16.4	DSP Version : 13	SP Version : 2062001
Mode: Expert Depth Log - B Mode		LFST Freq(khz) : 2264	LFST Temp(deg) : 8.57
Log Direction: Up	Polarization Correction: On	EPM: Yes	EPM T1/T2: Auto
Despiking: Off	High Res: Off	KBFV: Off	DMRP: On
Echo Spacing(us):	(200 200)		
Polarization Times(sec) for:	T1=1s: (infinity 0.02)	T1=3s: (7.002 0.02)	T1=5s: (6.429 0.02)
Number of Echoes:	(1800 30)		
Repetition:	(1 10)	Duty Cycle (highest): 0.0282	
Regularization:	Auto		

T2 Min(msec): 0.3

Number of Components: 30

Multiple T2 Cutoffs(msec):

Sample Int.(in): 7.5

T2 Max(msec): 3000

Downhole Stacking: 3

(0.3 1 3 10 33 100 300 1000 3000)

Req Log Speed (f/h): 1000

T2 Cutoff(msec): 33

Uphole Stacking: 1

T1/T2: 2

First Echo Used: No

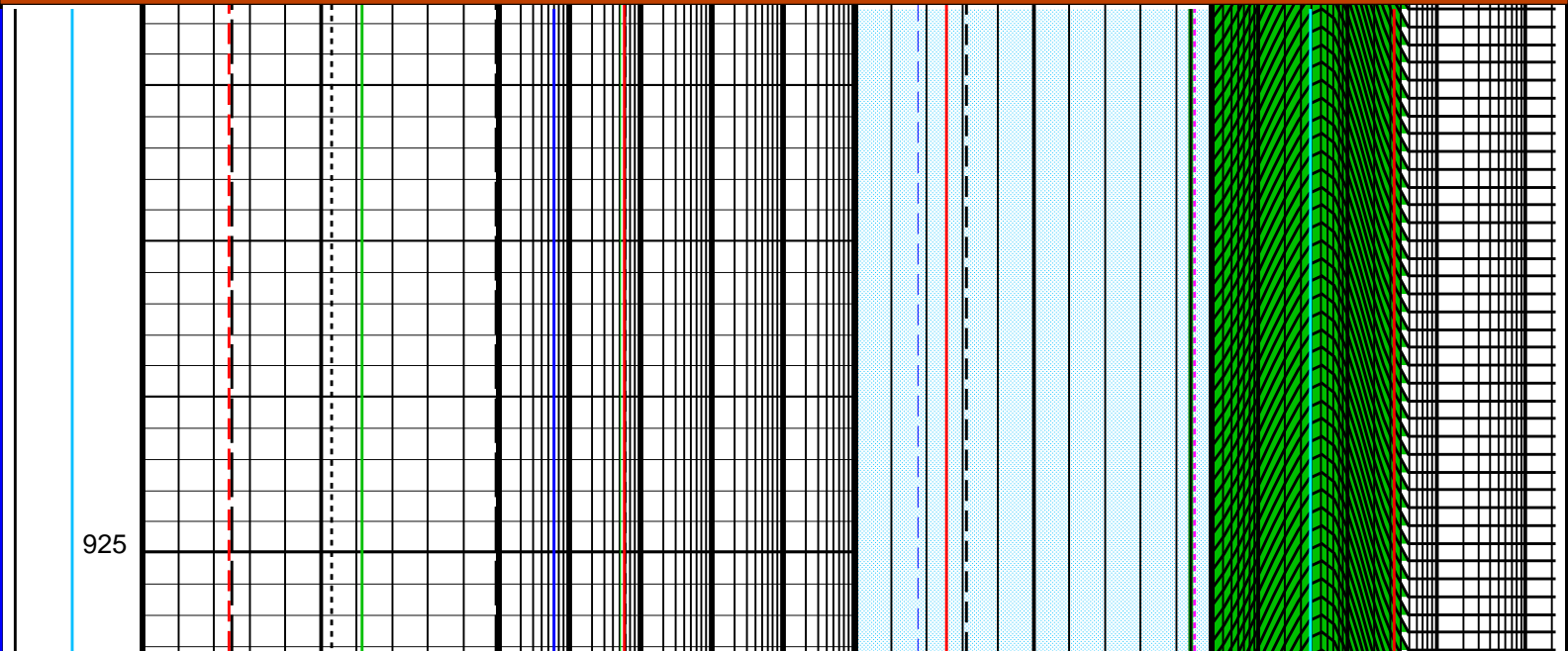
DMRP PARAMETERS

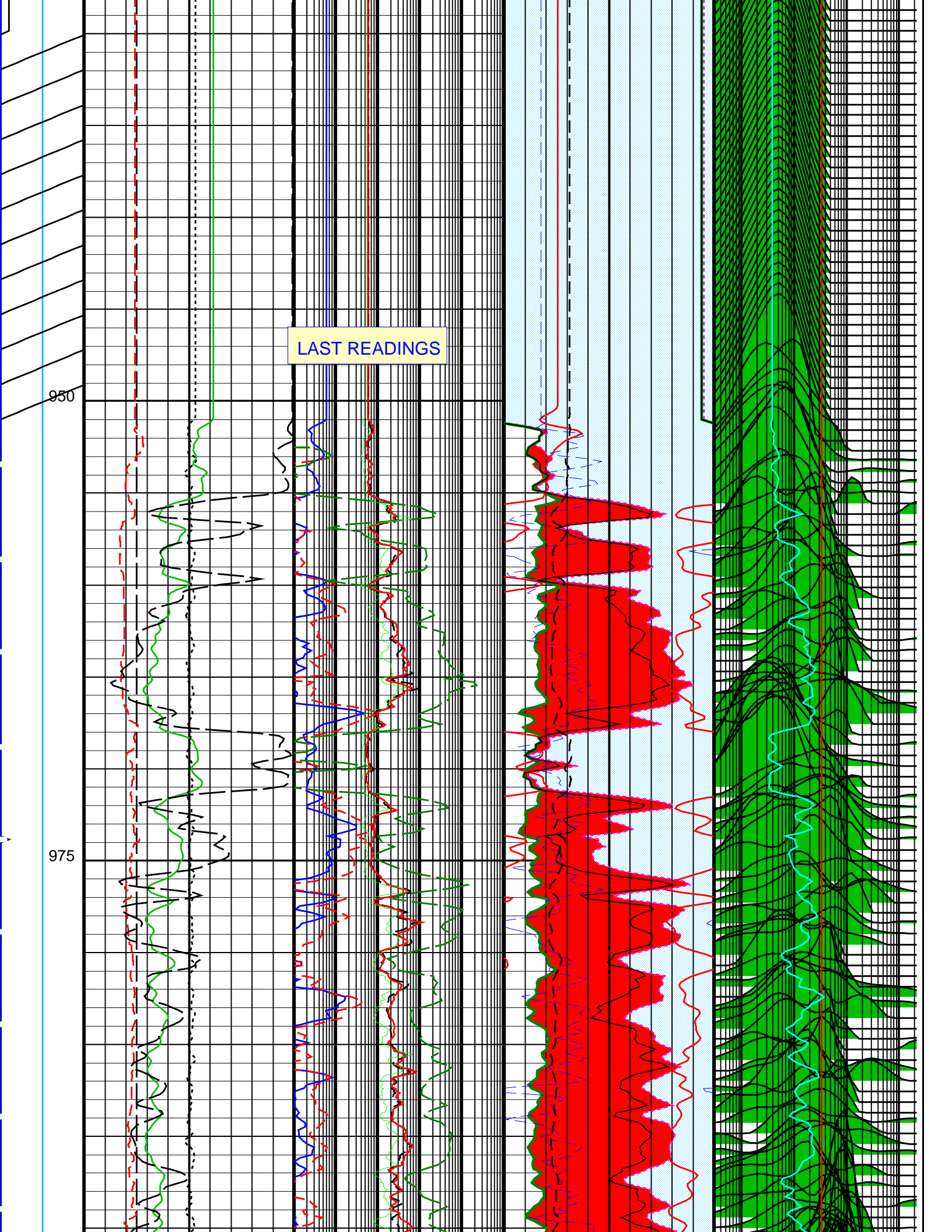
60/40 rule: Yes

PIP SUMMARY

Time Mark Every 60 S						Bound Fluid					
						Gas Corrected Free Fluid					
			DMR Gas Corrected Permeability (KDMR)			Total CMR Porosity (TCMR)					
			0.1 (MD) 10000			0.3 (V/V) 0					
(NO_UPDATE_COUNT)	Tension (TENS)		Timur/Coates Permeability			Std. Res. Formation Pe					
0 (----10	25000 (N) 0		0.1 (MD) 10000			0 (---- 10					
Noise Out of Tolerance	Gas Corrected Swirr (LC01)		SDR Permeability (KSDR)			NPOR for SAND (NPOR_SAN)					
	0 (---- 100		0.1 (MD) 10000			0.3 (V/V) 0					
Caution Moderate Noise	HILT Caliper (HCAL)		AIT 90 Inch Investigation			DPHI for SAND (DPHI_SAN)			T2 Distribution (T2_DIST_MW)		
	300 (MM) 550		0.1 (OHMM) 10000			0.3 (V/V) 0			60 (US) 89		
Insuff. WT Flag	Gamma Ray (GR)		AIT 30 Inch Investigation			Density Magnetic Resonance			T2 Logarithmic Mean (T2LM)		
	0 (GAPI) 150		0.1 (OHMM) 10000			0.3 (V/V) 0			0.3 (MS) 3000		
Bad Hole Flag	Bit Size (BS)		Std. Res. Invaded Zone Resistivity (RXOZ)			Total Bound Fluid Porosity			Bound Fluid Cutoff		
	300 (MM) 550		0.1 (OHMM) 10000			0.3 (V/V) 0			0.3 (MS) 3000		

Density-Magnetic Resonance (DMR) Gas Corrected Porosity Quicklook





Moderate Noise	300 (MM) 550	0.1 (OHMM) 10000	0.3 (V/V) 0	60 (US)	89
Noise Out of Tolerance	Gas Corrected Swirr (LC01) 0 (----) 100	SDR Permeability (KSDR) 0.1 (MD) 10000	NPOR for SAND (NPOR_SAN) 0.3 (V/V) 0		
(NO_UPDATE_COUNT)	Tension (TENS) 25000 (N) 0	Timur/Coates Permeability (KTIM) 0.1 (MD) 10000	Std. Res. Formation Pe (PEFZ) 0 (----) 10		
		DMR Gas Corrected Permeability (KDMR) 0.1 (MD) 10000	Total CMR Porosity (TCMR) 0.3 (V/V) 0		
			Gas Corrected Free Fluid		
			Bound Fluid		

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
AIT-M: Array Induction Tool - M			
ABHM	Array Induction Borehole Correction Mode	2_ComputeStandoff	
ABHV	Array Induction Borehole Correction Code Version Number	880	
ABLM	Array Induction Basic Logs Mode	6_One_Two_and_Four	
ABLV	Array Induction Basic Logs Code Version Number	108	
ACDE	Array Induction Casing Detection Enable	Yes	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered	
ACSED	Array Induction Casing Shoe Estimated Depth	678.485	M
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Yes	
AFRSV	Array Induction Response Set Version for Four ft Resolution	40.70.24.21	
AIGS	Array Induction Select Akima Interpolation Gating	On	
AMRF	Array Induction Mud Resistivity Factor	1	
AORSV	Array Induction Response Set Version for One ft Resolution	40.70.24.21	
ARFV	Array Induction Radial Profiling Code Version Number	700	
ARPV	Array Induction Radial Parametrization Code Version Number	223	
ASTA	Array Induction Tool Standoff	64	MM
ATRSV	Array Induction Response Set Version for Two ft Resolution	40.70.24.21	
ATSE	Array Induction Temperature Selection(Sonde Error Correction)	Internal	
AULV	Array Induction User Level Control	Normal	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9.4	DEGC
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	0	DEGC
HILTH-FTB: High resolution Integrated Logging Tool-DTS			
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9.4	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DHC	Density Hole Correction	BS	
FD	Fluid Density	1000	K/M3
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MPOF	MCFL Processing Operation Mode	ON	
MWCO	Mud Weight Correction Option	NO	

NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	HiRes	
NSAR	HRDD Depth Sampling Rate	25.4	MM
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	0	DEGC
SOCN	Standoff Distance	3.175	MM
SOCO	Standoff Correction Option	YES	
CMRT-B: Combinable Magnetic Resonance Tool – B			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	9.4	DEGC
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	AITM_RESIST	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
SHT	Surface Hole Temperature	0	DEGC
STI: Stuck Tool Indicator			
TDL	Total Depth – Logger	1133.00	M
System and Miscellaneous			
BS	Bit Size	361.950	MM
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	339.700	MM
CWEI	Casing Weight	81.11	KG/M
DFD	Drilling Fluid Density	1120.00	K/M3
DO	Depth Offset for Playback	0.0	M
MST	Mud Sample Temperature	20.50	DEGC
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	0.1500	OHMM
TD	Total Depth	1147	M

Format: CMR_LOG_GC_D240 Vertical Scale: 1:240 Graphics File Created: 03-Mar-2007 11:08

OP System Version: 14C0-302

MCM

AIT-M	14C0-302	HILTH-FTB	14C0-302
CMRT-B	SPC-3239-CMR	EMS-B	14C0-302
DTC-H	14C0-302		

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_067PUP	FN:78	PRODUCER	03-Mar-2007 10:38	1050.0 M	928.4 M
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Output DLIS Files

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CUST	AIT_TLD_MCFL_CNL_074PUP	FN:92	PRODUCER	03-Mar-2007 11:08		

Schlumberger

**MAIN PASS:
LQC CMR**

MAXIS Field Log

Company: JOGMEC Well: AURORA/JOGMEC/NRCAN MALLIK 2L-38

Input DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_048LUP	FN:55	PRODUCER	03-Mar-2007 08:10	1133.9 M	781.5 M
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Output DLIS Files

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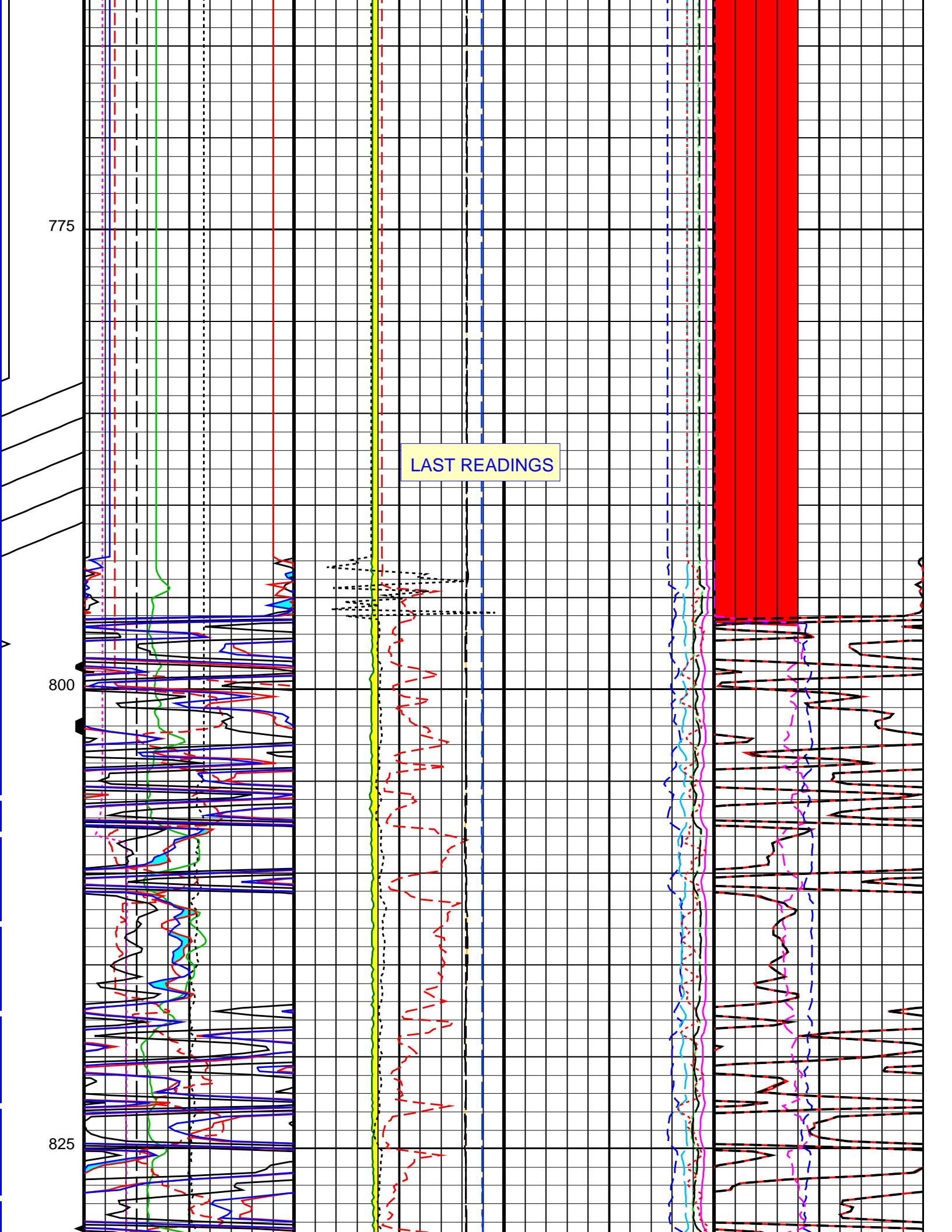
CMR DEPTH LOG REPORT

PARAMETER SUMMARY

Tool Type: CMR-Plus	Cart. Number: 202	Sonde Number: 182	
Kit Number: 28	DHC Version : 16.4	DSP Version : 13	SP Version : 2062001
Mode: Expert Depth Log – B Mode		LFST Freq(khz) : 2264	LFST Temp(degc) : 8.57
Log Direction: Up	Polarization Correction: On	EPM: Yes	EPM T1/T2: Auto
Despiking: Off	High Res: Off	KBFV: Off	DMRP: Off
Echo Spacing(us):	(200 200)		
Polarization Times(sec) for:	T1=1s: (infinity 0.02)	T1=3s: (7.002 0.02)	T1=5s: (6.429 0.02)
Number of Echoes:	(1800 30)		
Repetition:	(1 10)	Duty Cycle (highest): 0.0282	
Regularization:	Auto		
T2 Min(msec): 0.3	T2 Max(msec): 3000	T2 Cutoff(msec): 33	T1/T2: 2
Number of Components: 30	Downhole Stacking: 3	Uphole Stacking: 1	First Echo Used: No
Multiple T2 Cutoffs(msec):	(0.3 1 3 10 33 100 300 1000 3000)		
Sample Int.(in): 7.5	Req Log Speed (f/h): 1000		

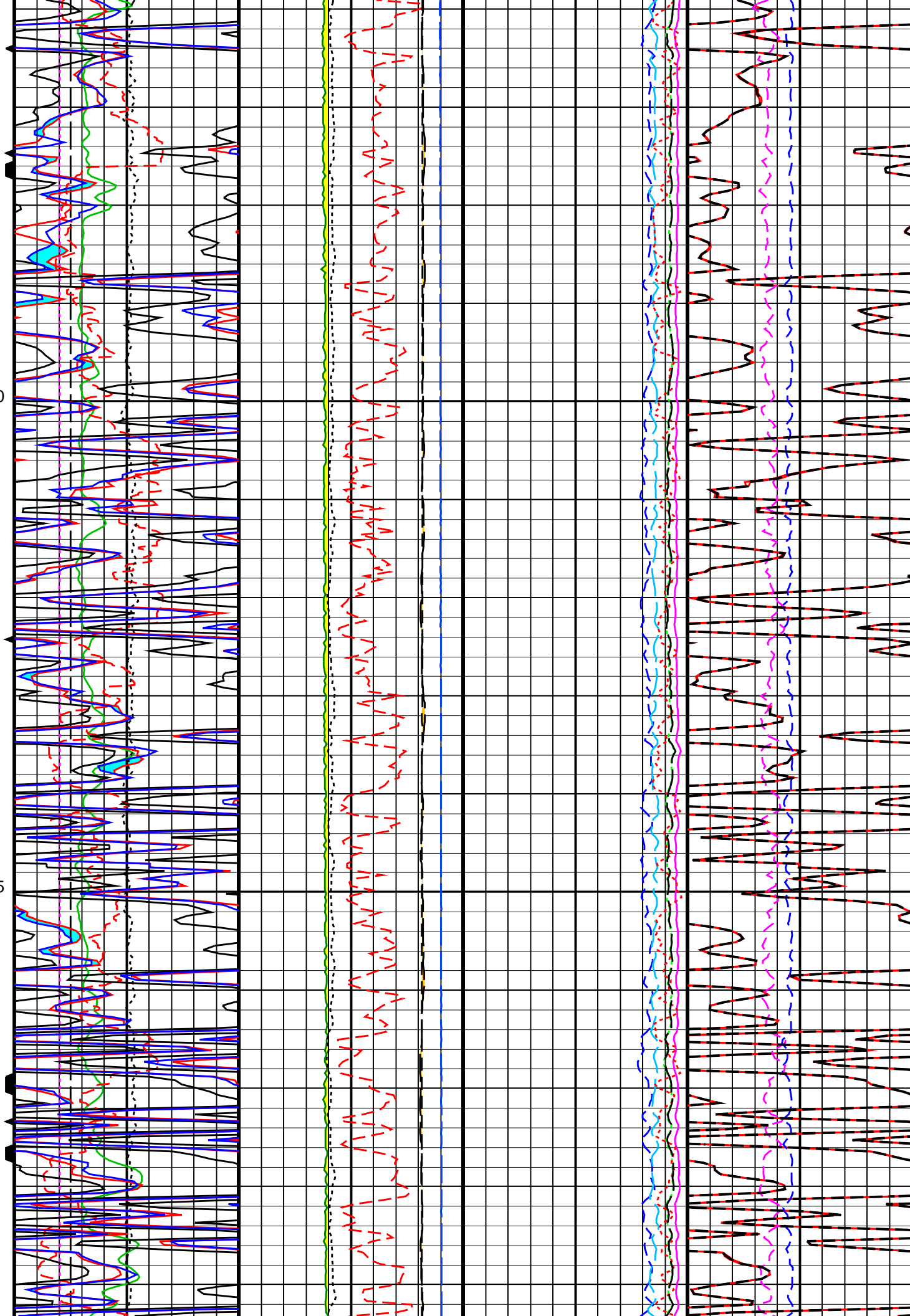
PIP SUMMARY

Time Mark Every 60 S				
	Window Porosity 3 (CMR_RAW_PHI[2])			
	0.4 (V/V) 0			
	Window Porosity 2 (CMR_RAW_PHI[1])	Delta B0 Caution	Noise Out of Tolerance	
	0.4 (V/V) 0			
	Window Porosity 1 (CMR_RAW_PHI[0])	ALF Frequency Correction	Caution Moderate Noise	CMRP max to min
	0.4 (V/V) 0			
	Tension (TENS)	Operating Frequency (FREQ_OP)	Standard Deviation of Total CMR Porosity (TCMR_SIG)	HV Loaded Below Limit
	25000 (N) 0	2100 (KHZ) 2300	0.1 (V/V) 0	
	Window Porosity 2 to 3	Signal Phase (SPHASE[0])	Tool WSUM Noise (NOISE_TOOL_WSUM[0])	Total CMR Porosity from WT1 (TCMR_MW[0])
		-180 (DEG) 180	0.1 (V/V) 0	0.4 (V/V) 0
Tuning Mode (TUNING_MODE)	HILT Caliper (HCAL) 300 (MM) 550	Frequency without ALF (FREQ_WO_ALF)	Tool Hardware Noise (NOISE_TOOL[0])	High Voltage Peak Current (HV_PEAK_CUR)
-1 (---- 3		2100 (KHZ) 2300	0.1 (V/V) 0	0 (MA) 10000
(NO_UPDATE_COUNT)	Gamma Ray (GR)	Delta B0 (DELTA_B0)	Noise per Echo (NOISE_ENV[0])	High Voltage When Loaded (HV_LOADED)
0 (----10	0 (GAPI) 150	-0.5 (MTES) 0.5	0.1 (V/V) 0	220 (V) 270
Insuff. WT Flag	Cable Speed (CS)	CMR System Gain (CMR_GAIN)	Standard Deviation of Free Fluid Porosity (CMFF_SIG)	CMRP – T1T2min (CMRP_T1T2R_MIN)
	0 (M/HR) 1500	0 (---- 1	0.1 (V/V) 0	0.4 (V/V) 0
Bad Hole Flag	Bit Size (BS)	CMR Temperature (CMR_TEMP)	Standard Deviation of Total Bound Fluid Porosity (BFV_SIG)	CMRP – T1T2max (CMRP_T1T2R_MAX)
	300 (MM) 550	20 (DEGC) 120	0.1 (V/V) 0	0.4 (V/V) 0



850

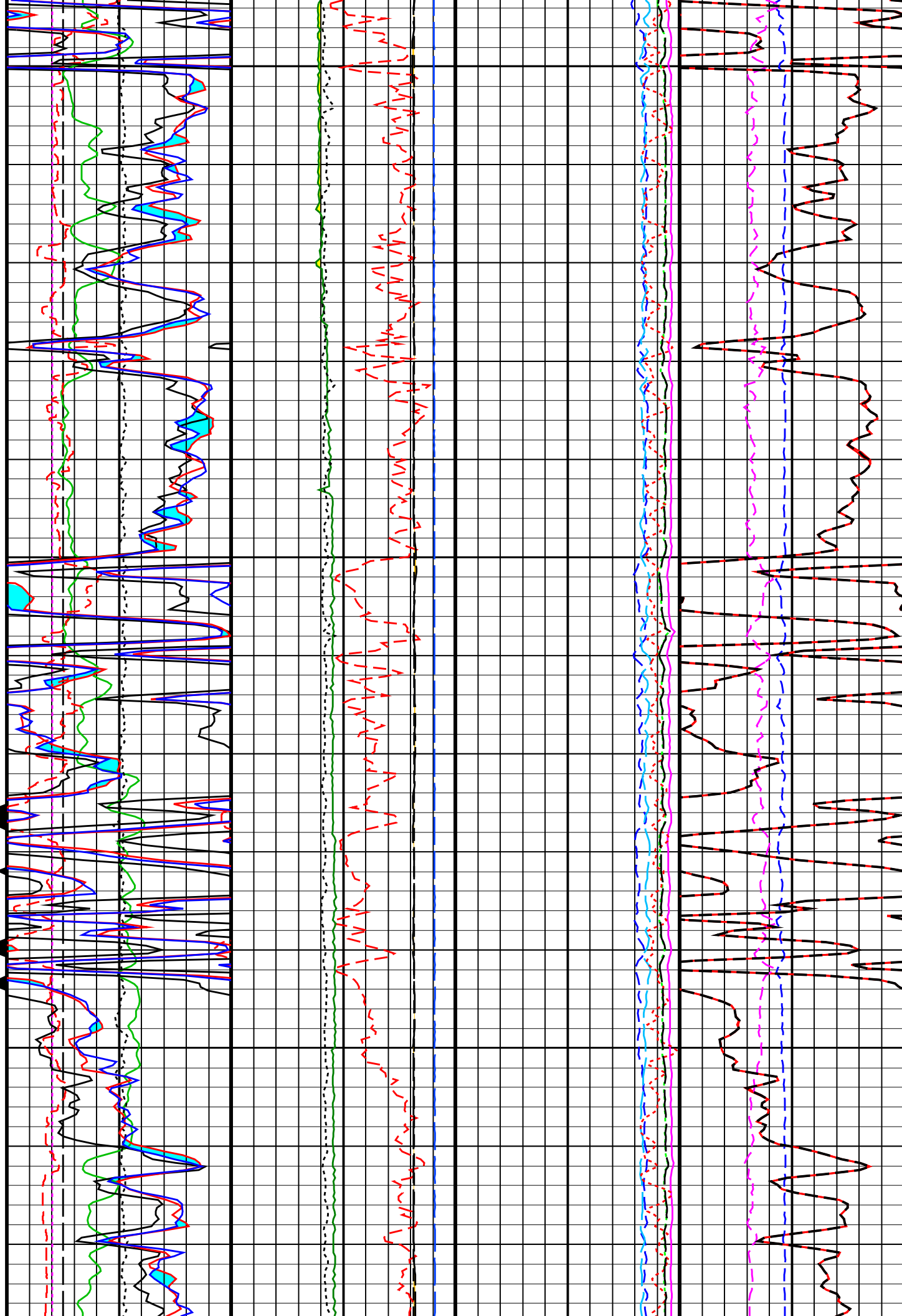
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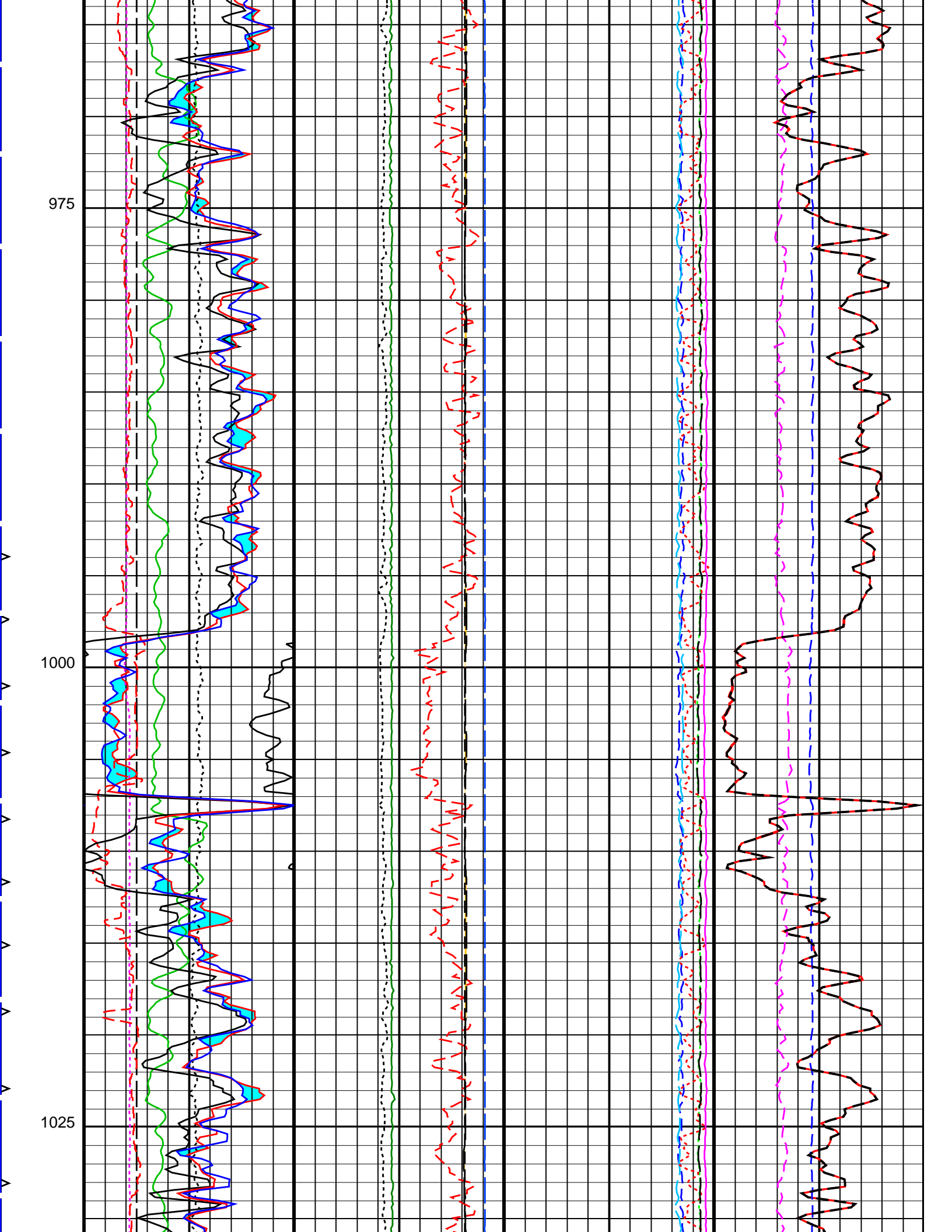


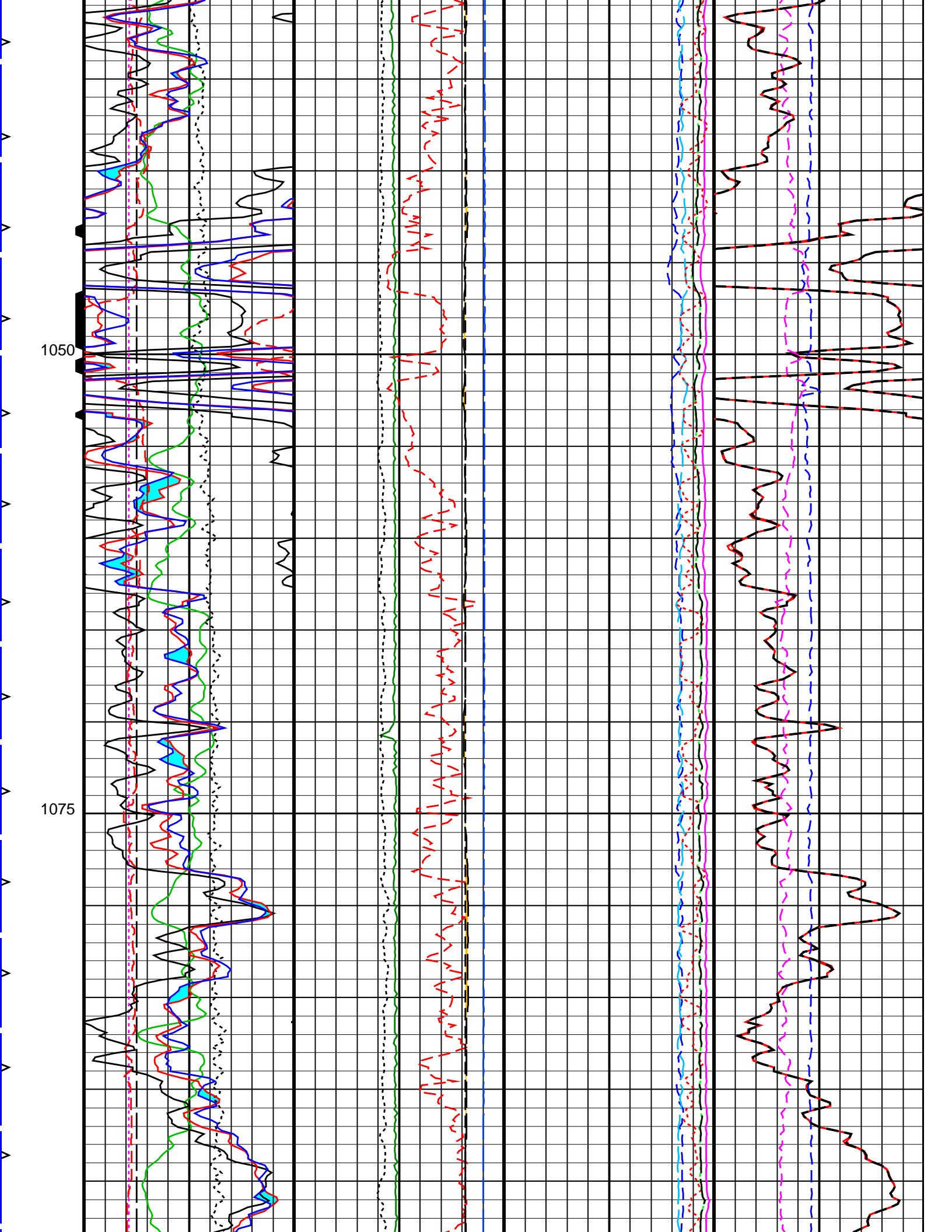
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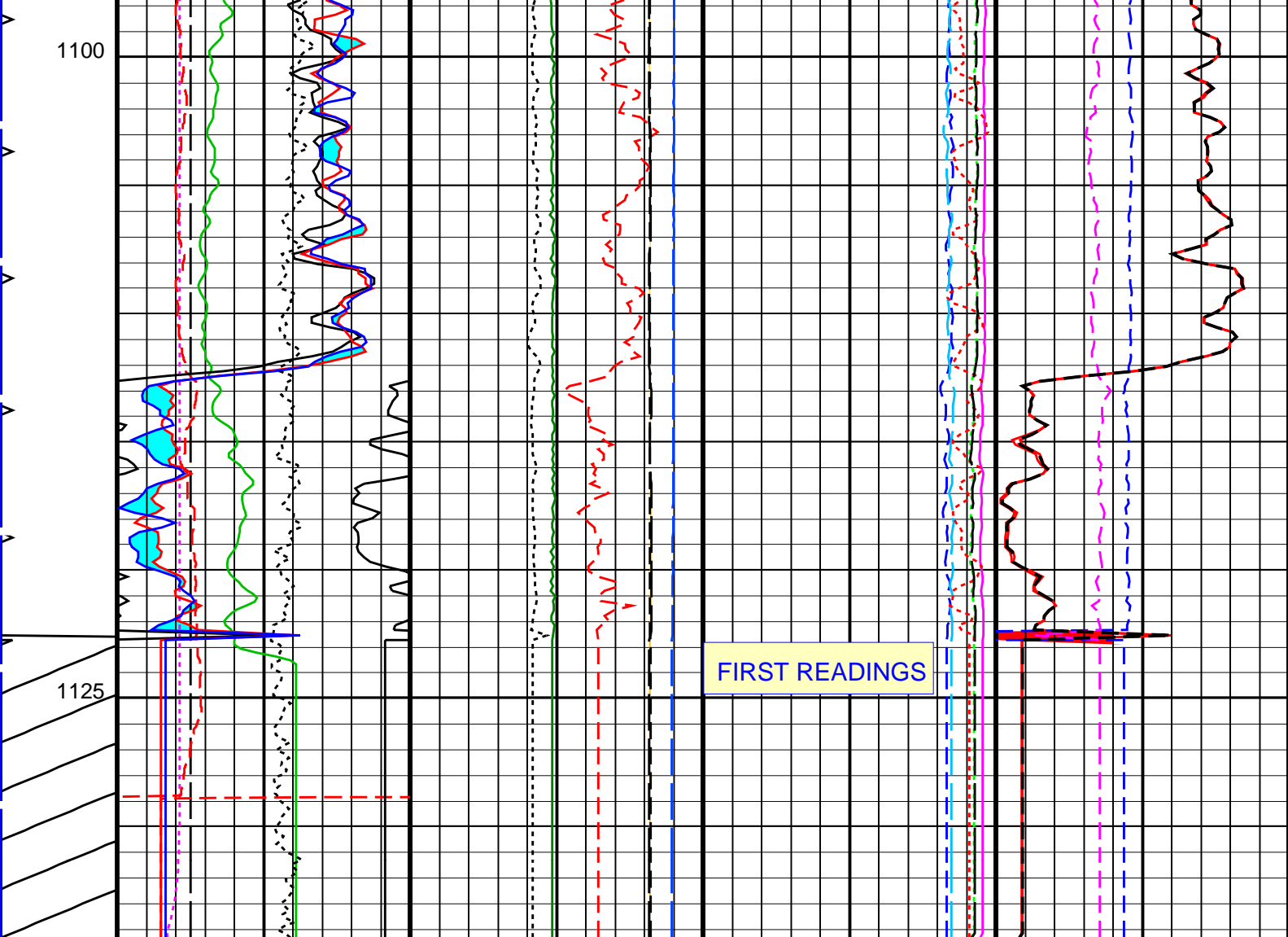
925

950









FIRST READINGS

Bad Hole Flag	Bit Size (BS) (MM)	CMR Temperature (CMR_TEMP) (DEGC)	Standard Deviation of Total Bound Fluid Porosity (BFV_SIG) (V/V)	CMRP - T1T2max (CMRP_T1T2R_MAX) (V/V)
Insuff. WT Flag	Cable Speed (CS) (M/HR)	CMR System Gain (CMR_GAIN) (----	Standard Deviation of Free Fluid Porosity (CMFF_SIG) (V/V)	CMRP - T1T2min (CMRP_T1T2R_MIN) (V/V)
(NO_UPDATE_COUNT)	Gamma Ray (GR) (GAPI)	Delta B0 (DELTA_B0) (MTES)	Noise per Echo (NOISE_ENV[0]) (V/V)	High Voltage When Loaded (HV_LOADED) (V)
Tuning Mode (TUNING_MODE)	HILT Caliper (HCAL) (MM)	Frequency without ALF (FREQ_WO_ALF) (KHZ)	Tool Hardware Noise (NOISE_TOOL[0]) (V/V)	High Voltage Peak Current (HV_PEAK_CUR) (MA)
Window Porosity 2 to 3	Signal Phase (SPHASE[0]) (DEG)	Tool WSUM Noise (NOISE_TOOL_WSUM[0]) (V/V)	Total CMR Porosity from WT1 (TCMR_MW[0]) (V/V)	
Tension (TENS) (N)	Operating Frequency (FREQ_OP) (KHZ)	Standard Deviation of Total CMR Porosity (TCMR_SIG) (V/V)	HV Loaded Below Limit	
Window Porosity 1 (CMR_RAW_PHI[0]) (V/V)	ALF Frequency Correction	Caution Moderate Noise	CMRP max to min	
Window Porosity 2 (CMR_RAW_PHI[1]) (V/V)				

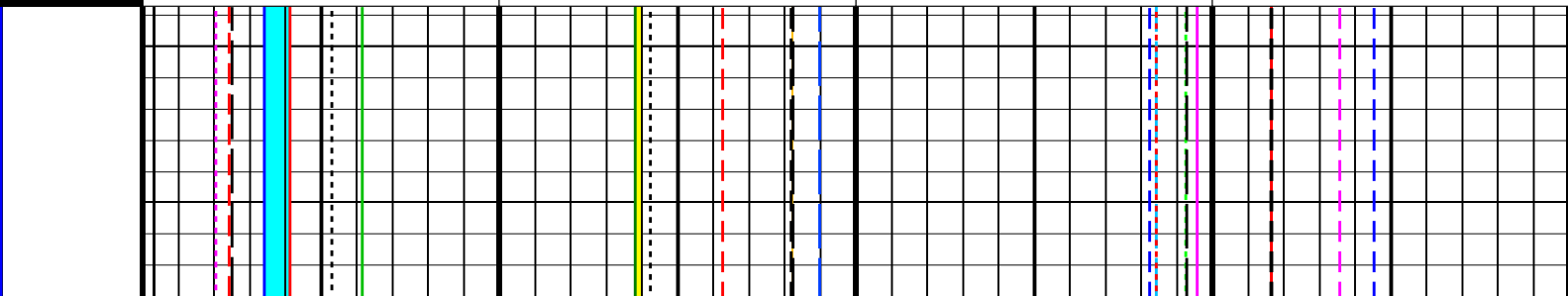
	Window Porosity 2 (CMR_RAW_PHI[1])		Delta B0 Caution		Noise Out of Tolerance	
	0.4	(V/V)				
	Window Porosity 3 (CMR_RAW_PHI[2])					
	0.4	(V/V)				
PIP SUMMARY						
Time Mark Every 60 S						
Parameters						
DLIS Name		Description			Value	
System and Miscellaneous						
BS	Bit Size			361.950	MM	
DO	Depth Offset for Playback			0.4	M	
PP	Playback Processing			NORMAL		
Format: CMRT_LQC_DEPTH_LOG		Vertical Scale: 1:240		Graphics File Created: 03-Mar-2007 10:31		
OP System Version: 14C0-302						
MCM						
AIT-M	14C0-302		HILTH-FTB		14C0-302	
CMRT-B	SPC-3239-CMR		EMS-B		14C0-302	
DTC-H	14C0-302					
Input DLIS Files						
DEFAULT	AIT_TLD_MCFL_CNL_048LUP		FN:55	PRODUCER	03-Mar-2007 08:10	1133.9 M 781.5 M
Output DLIS Files						
DEFAULT	AIT_TLD_MCFL_CNL_065PUP		FN:74	PRODUCER	03-Mar-2007 10:31	
CUST	AIT_TLD_MCFL_CNL_065PUP		FN:75	PRODUCER	03-Mar-2007 10:31	

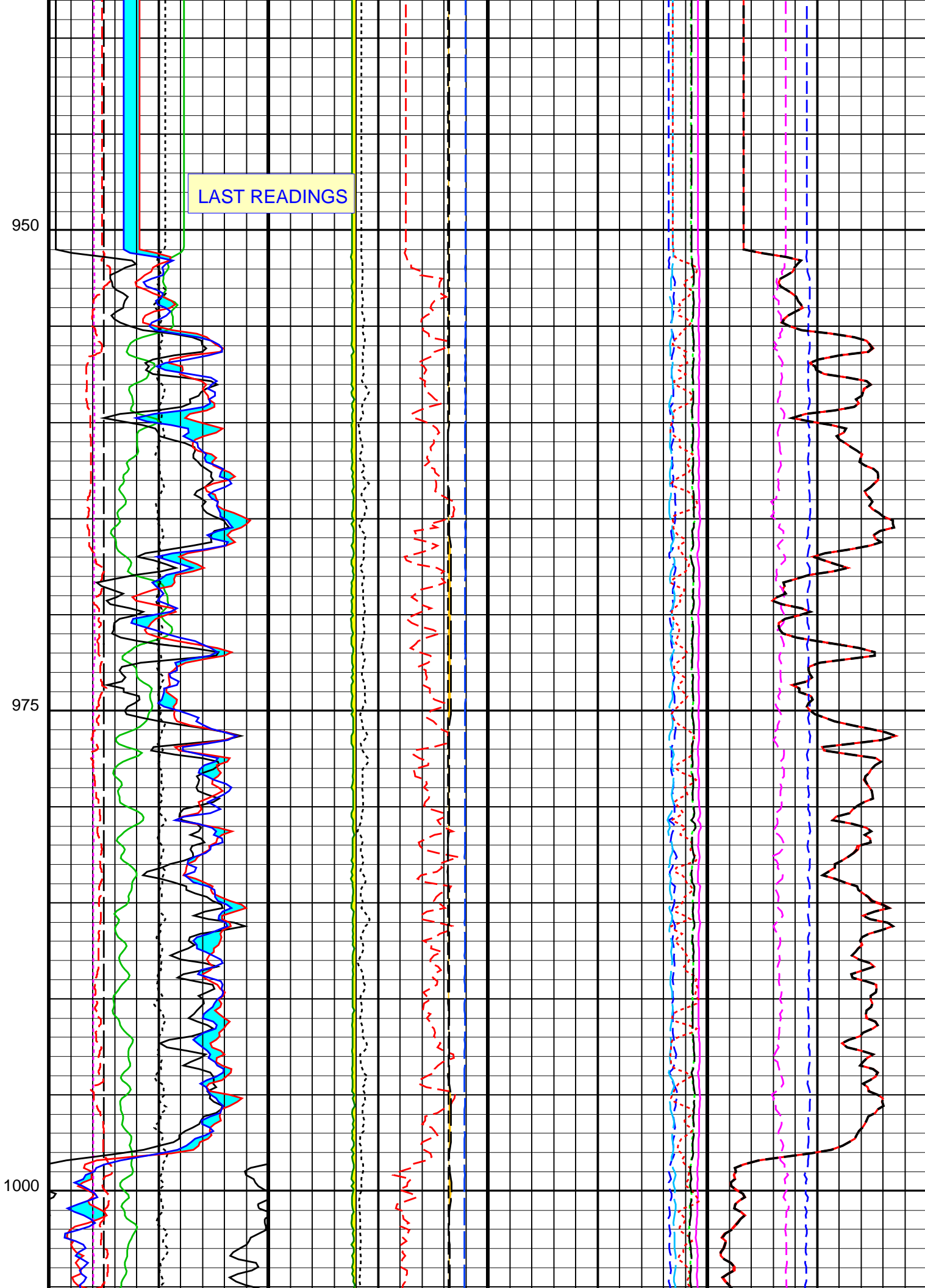
Kit Number: 20	DHC Version: 10.4	DSP Version: 13	SP Version: 2002001
Mode: Expert Depth Log – B Mode		LFST Freq(khz) : 2264	LFST Temp(deg) : 8.57
Log Direction: Up	Polarization Correction: On	EPM: Yes	EPM T1/T2: Auto
Despiking: Off	High Res: Off	KBFV: Off	DMRP: Off
Echo Spacing(us):	(200 200)		
Polarization Times(sec) for:	T1=1s: (infinity 0.02)	T1=3s: (7.002 0.02)	T1=5s: (6.429 0.02)
Number of Echoes:	(1800 30)		
Repetition:	(1 10)	Duty Cycle (highest): 0.0282	
Regularization:	Auto		
T2 Min(msec): 0.3	T2 Max(msec): 3000	T2 Cutoff(msec): 33	T1/T2: 2
Number of Components: 30	Downhole Stacking: 3	Uphole Stacking: 1	First Echo Used: No
Multiple T2 Cutoffs(msec):	(0.3 1 3 10 33 100 300 1000 3000)		
Sample Int.(in): 7.5	Req Log Speed (f/h): 1000		

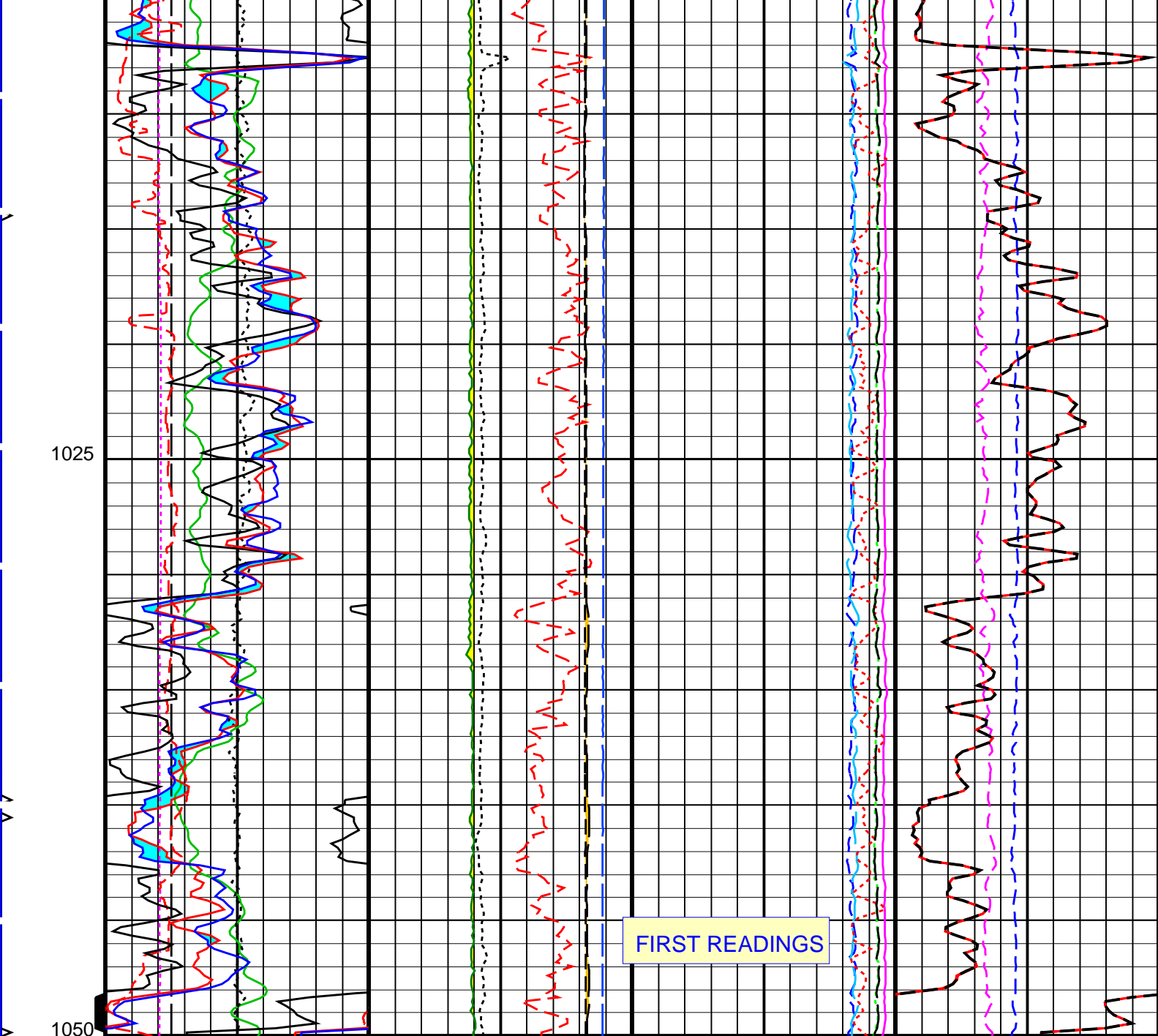
PIP SUMMARY

Time Mark Every 60 S

	Window Porosity 3 (CMR_RAW_PHI[2]) 0.4 (V/V) 0			
	Window Porosity 2 (CMR_RAW_PHI[1]) 0.4 (V/V) 0	Delta B0 Caution	Noise Out of Tolerance	
	Window Porosity 1 (CMR_RAW_PHI[0]) 0.4 (V/V) 0	ALF Frequency Correction	Caution Moderate Noise	CMRP max to min
	Tension (TENS) 25000 (N) 0	Operating Frequency (FREQ_OP) 2100 (KHZ) 2300	Standard Deviation of Total CMR Porosity (TCMR_SIG) 0.1 (V/V) 0	HV Loaded Below Limit
	Window Porosity 2 to 3	Signal Phase (SPHASE[0]) -180 (DEG) 180	Tool WSUM Noise (NOISE_TOOL_WSUM[0]) 0.1 (V/V) 0	Total CMR Porosity from WT1 (TCMR_MW[0]) 0.4 (V/V) 0
Tuning Mode (TUNING_MODE) -1 (---- 3)	HILT Caliper (HCAL) 300 (MM) 550	Frequency without ALF (FREQ_WO_ALF) 2100 (KHZ) 2300	Tool Hardware Noise (NOISE_TOOL[0]) 0.1 (V/V) 0	High Voltage Peak Current (HV_PEAK_CUR) 0 (MA) 10000
(NO_UPDATE_COUNT) 0 (----10)	Gamma Ray (GR) 0 (GAPI) 150	Delta B0 (DELTA_B0) -0.5 (MTES) 0.5	Noise per Echo (NOISE_ENV[0]) 0.1 (V/V) 0	High Voltage When Loaded (HV_LOADED) 220 (V) 270
Insuff. WT Flag	Cable Speed (CS) 0 (M/HR) 1500	CMR System Gain (CMR_GAIN) 0 (---- 1	Standard Deviation of Free Fluid Porosity (CMFF_SIG) 0.1 (V/V) 0	CMRP – T1T2min (CMRP_T1T2R_MIN) 0.4 (V/V) 0
Bad Hole Flag	Bit Size (BS) 300 (MM) 550	CMR Temperature (CMR_TEMP) 20 (DEGC) 120	Standard Deviation of Total Bound Fluid Porosity (BFV_SIG) 0.1 (V/V) 0	CMRP – T1T2max (CMRP_T1T2R_MAX) 0.4 (V/V) 0







Bad Hole Flag	Bit Size (BS) (MM)	CMR Temperature (CMR_TEMP) (DEGC)	Standard Deviation of Total Bound Fluid Porosity (BFV_SIG) (V/V)	CMRP - T1T2max (CMRP_T1T2R_MAX) (V/V)
	300 — 550	20 — 120	0.1 — 0	0.4 — 0
Insuff. WT Flag	Cable Speed (CS) (M/HR)	CMR System Gain (CMR_GAIN) (----	Standard Deviation of Free Fluid Porosity (CMFF_SIG) (V/V)	CMRP - T1T2min (CMRP_T1T2R_MIN) (V/V)
	0 — 1500	0 — 1	0.1 — 0	0.4 — 0
(NO_UPDATE_COUNT)	Gamma Ray (GR) (GAPI)	Delta B0 (DELTA_B0) (MTES)	Noise per Echo (NOISE_ENV[0]) (V/V)	High Voltage When Loaded (HV_LOADED) (V)
0 (----10)	0 — 150	-0.5 — 0.5	0.1 — 0	220 — 270
Tuning Mode (TUNING_MODE)	HILT Caliper (HCAL) (MM)	Frequency without ALF (FREQ_WO_ALF) (KHZ)	Tool Hardware Noise (NOISE_TOOL[0]) (V/V)	High Voltage Peak Current (HV_PEAK_CUR) (MA)
-1 (----3)	300 — 550	2100 — 2300	0.1 — 0	0 — 10000
	Window Porosity 2 to 3	Signal Phase (SPHASE[0]) (DEG)	Tool WSUM Noise (NOISE_TOOL_WSUM[0]) (V/V)	Total CMR Porosity from WT1 (TCMR_MW[0]) (V/V)
		-180 — 180	0.1 — 0	0.4 — 0

	Tension (TENS) 25000 (N) 0	Operating Frequency (FREQ_ OP) 2100 (KHZ) 2300	Standard Deviation of Total CMR Porosity (TCMR_SIG) 0.1 (V/V) 0	HV Loaded Below Limit
	Window Porosity 1 (CMR_ RAW_PHI[0]) 0.4 (V/V) 0	ALF Frequency Correction	Caution Moderate Noise	
	Window Porosity 2 (CMR_ RAW_PHI[1]) 0.4 (V/V) 0	Delta B0 Caution	Noise Out of Tolerance	CMRP max to min
	Window Porosity 3 (CMR_ RAW_PHI[2]) 0.4 (V/V) 0			


PIP SUMMARY			
Time Mark Every 60 S			

Parameters			
DLIS Name	Description	Value	
System and Miscellaneous			
BS	Bit Size	361.950	MM
DO	Depth Offset for Playback	0.7	M
PP	Playback Processing	NORMAL	

Format: CMRT_LQC_DEPTH_LOG	Vertical Scale: 1:240	Graphics File Created: 03-Mar-2007 10:38
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OP System Version: 14C0-302			
MCM			
AIT-M	14C0-302	HILTH-FTB	14C0-302
CMRT-B	SPC-3239-CMR	EMS-B	14C0-302
DTC-H	14C0-302		

Input DLIS Files						
DEFAULT	AIT_TLD_MCFL_CNL_061LUP	FN:69	PRODUCER	03-Mar-2007 09:38	1071.7 M	620.9 M
Output DLIS Files						
DEFAULT	AIT_TLD_MCFL_CNL_067PUP	FN:78	PRODUCER	03-Mar-2007 10:38		
CUST	AIT_TLD_MCFL_CNL_067PUP	FN:79	PRODUCER	03-Mar-2007 10:38		



TUNE WORD

LFST PLOTS

MAXIS Field Log

CMRT LARMOR FREQUENCY SEARCH REPORT – Sat Mar 03 08:08:46 2007

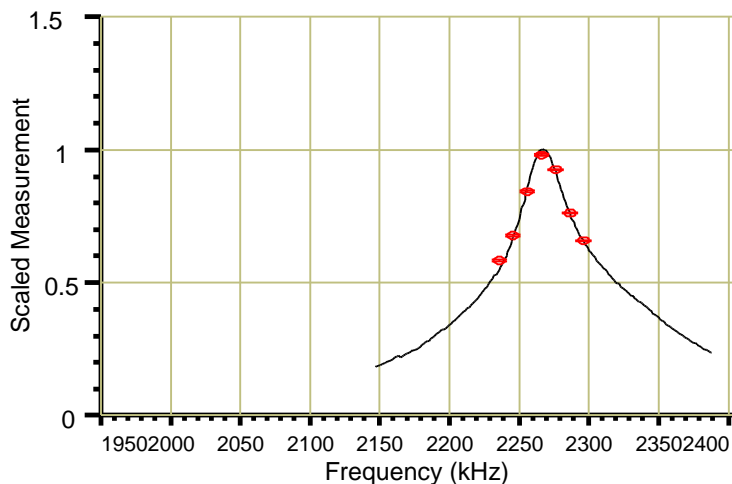
Search Accepted		ALF Offset: value, std dev (deg): 16.6 , 0.16	
		Offset relative to master value (deg): 3.5	
Search Results:		Search Parameters:	
Larmor Frequency (kHz):	2264	Central Frequency (kHz):	2263
Temperature (degc):	8.6	Central Frequency Selection:	Current Freq
		Echo Count Used:	101

Measured Data:

Frequency	Amplitude	RMS Noise	Std Deviation
2233	252.00	2.50	2.4823
2243	292.00	2.49	2.4779
2253	364.00	2.44	2.4732
2263	423.00	2.68	2.4708
2273	399.00	2.52	2.4781
2283	329.00	2.35	2.4765
2293	284.00	2.34	2.4768

Related Data:

Depth(m):	1121.8
Average Cable Speed (ft/h):	0.0
Delta Temperature (degc):	0.3
Measurement Time (sec):	48.7
HV Peak Current (mA):	3441.8
Previous LFST Freq (at Temp):	2264
Frequency Std Deviation (kHz):	0.14
Number of Echoes:	300
Polarization Time (sec):	0.400
System Gain:	0.550



Freq estimate from Temp (kHz):	2258
Tune Table Offset (kHz):	2.1
Sonde Number:	182
Cartridge Number:	202

Company: JOGMEC**Schlumberger****Well: AURORA/JOGMEC/NRCAN MALLIK 2L-38****Field: MALLIK****Province: NWT****COMBINABLE MAGNETIC
RESONANCE LOG**