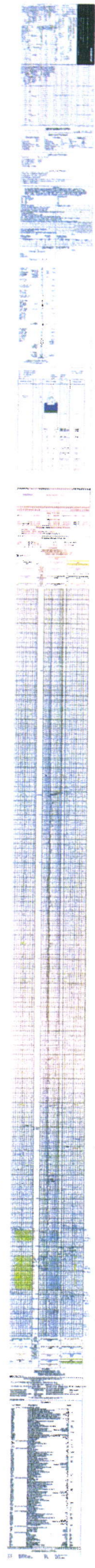


COMPANY = Anadarko  
BOXNO = ANAMD\_L\_PROD025  
CUSTODIAN : Chandler, Paul  
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ENDDOC = ANA-MDL-000277775  
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# Schlumberger

Company: BP Exploration & Production, Inc.

Well: OCS-G 32306 001 ST00BP01

Field: Mississippi Canyon 252

Waters: Gulf of Mexico State: Louisiana

RT Scanner

Hostile Litho Density Tool

Compensated Neutron (5" = 100' MD)

Waters: Gulf of Mexico  
Field: Mississippi Canyon 252  
Location: Surf Loc: X=1202803.88 & Y=1043161.7  
Well: OCS-G 32306 001 ST00BP01  
Company: BP Exploration & Production, Inc.

LOCATION	Surf Loc: X=1202803.88 & Y=1043161.7	Elev.: KB 75.00 ft
		G.L. -4992.00 ft
		D.F. 75.00 ft
	Permanent Datum: Sea Level	Elev.: 0.00 ft
	Log Measured From: Drill Floor	75.00 ft above Perm. Datum
	Drilling Measured From: Drill Floor	
	API Serial No. 608174116900	Latitude: 28 44' 17.1424" N
		Longitude: 88 21' 58.5024" W
		Fig: DW Horizon

Logging Date		10-Apr-2010	
Run Number		R1 D1	
Depth Driller		18360ft	
Schlumberger Depth		18280ft	
Bottom Log Interval		18270ft	
Top Log Interval		17157ft	
Casing Driller Size @ Depth		9.875 in @ 17168ft	@
Casing Schlumberger		17157ft	
Bit Size		9.875 in	
Type Fluid In Hole		Rheiliant - Synthetic Based Mud	
MUD	Density	Viscosity	14 lbm/gal 103 s
	Fluid Loss	PH	0 cm3 0
	Source Of Sample N/A		
FM @ Measured Temperature		@	@
FMF @ Measured Temperature		@	@
FMC @ Measured Temperature		@	@
Source RMF	FMC	N/A	N/A
FM @ MRT	FMF @ MRT	@	@
Maximum Recorded Temperatures			
Circulation Stopped	Time	10-Apr-2010 5:00	
Logger On Bottom	Time	11-Apr-2010 2:19	
Unit Number	Location	2082 Larose, Louisiana	
Recorded By		Victor Emanuel / Ryan O'Toole	
Witnessed By		Galina Skripnikova / Stuart Lacy	

NOT A FINAL LOG



[illegible]



# DEPTH SUMMARY LISTING

Date Created: 11-APR-2010 3:57:06

## Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-JA	Type:	TD-K	Type:	7-48Z US
Serial Number:	5048	Serial Number:	414	Serial Number:	709001
Calibration Date:		Calibration Date:	22-Mar-2010	Length:	25600 FT
Calibrator Serial Number:	6009	Calibrator Serial Number:	334254	Conveyance Method:	Wireline
Calibration Cable Type:	7-48Z US	Number of Calibration Points:	10	Rig Type:	Offshore Floater with WMC
Wheel Correction 1:	-7	Calibration RMS:	16		
Wheel Correction 2:	-7	Calibration Peak Error:	27		

## Depth Control Parameters

Log Sequence: First Log In the Well

Rig Up Length At Surface: 666.40 FT

Rig Up Length At Bottom: 666.50 FT

Rig Up Length Correction: -0.10 FT

Stretch Correction:

Tool Zero Check At Surface:

## Depth Control Remarks

1. Depth Control as per Schlumberger procedures.
2. Primary depth control device: Calibrated IDW.
3. Secondary depth control: Z-Chart.
4. Weak point selected: ECRD-F SN: 59 and ECRD-E SN: 639. LEH-QT Max safe pull 8000 lbs.
5. Capstan, 36" sheaves and TD-L used to pull 19,000 lbs on a 7-48 ASUS cable.
6. Capstan unit: WDDC-BB SN 01.



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THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1		OTHER SERVICES2	
OS1:	CMR-ECS-HNGS	OS1:	
OS2:	DUAL OBMI-DSI	OS2:	
OS3:	MDT	OS3:	
OS4:	MSCT	OS4:	
OS5:	VS	OS5:	
REMARKS: RUN NUMBER 1		REMARKS: RUN NUMBER 2	
1-This log is the primary depth control reference for this well.			
2-All parameters and presentations as per client's request.			
3-Matrix: Sandstone; Matrix Density: 2.65; FNUM: 0.62			
4-Temperatures recorded with three thermometers located in the logging head: xxxx Deg F.			
5-Logging speed 1800 ft/hr.			
6-Repeat pass done from 18280 ft to 18000 ft.			
7-Well drilled with a 8.5" bit and a 9.875" under reamer located 134 ft above the bit			
8-Tool run as per tool sketch with three 1.5" standoffs on the ZAIT and a pouspring on the CNL. Tool run with a hole finder.			
9-Data quality could be affected due to borehole conditions; washouts and over-pulls			
10-It was not possible to reach TD due to borehole conditions and the client requested to start logging from 18290 ft.			
Thank you for choosing Schlumberger Oilfield Services			
Larose shop: (986) 693-3161			
Your Crew today ES-06: John Moore, Milton Johnson and Jorge Saldana			
RUN 1		RUN 2	
SERVICE ORDER #:	B073-00052	SERVICE ORDER #:	
PROGRAM VERSION:	17CO-154	PROGRAM VERSION:	
FLUID LEVEL:	0 ft	FLUID LEVEL:	
LOGGED INTERVAL	START	LOGGED INTERVAL	START
	STOP		STOP



## EQUIPMENT DESCRIPTION

RUN 1

RUN 2

## SURFACE EQUIPMENT

NCT-B  
CNB-AB  
NCS-VB 4487  
WITM (EDTS)-A

## DOWNHOLE EQUIPMENT

LEH-QT 1313  
LEH-QT 1313

MDSB EDTC  
Mud Temp  
CTEM  
Gamma Ray  
EFTB DIAG  
TelStatus  
EDTCB Ele

EDTC-B 8582  
EDTH-B 8577  
EDTC-B 8582  
EDTG-AB

77.0  
73.5  
71.6  
70.5

79.9

77.0

SAH-F 985  
SAH-F 985

70.5

AH-SFT-270 1983  
AH-SFT-270 1983

65.6

GPIT-C 804  
GPIC-C 804  
GPIH-B 2735

61.6

AH-SFT-270 1931  
AH-SFT-270 1931

57.6

CNT-K 2552  
NLS-KL  
NSRF 2685  
CNC-KA 2552  
CNC-A 4486  
CND-A

CFTC  
CNTC

49.2  
48.7

53.6

LDSC-B 296  
LDSH-A 4002  
LDSC-B 296

LDSC Stat

44.6

46.3

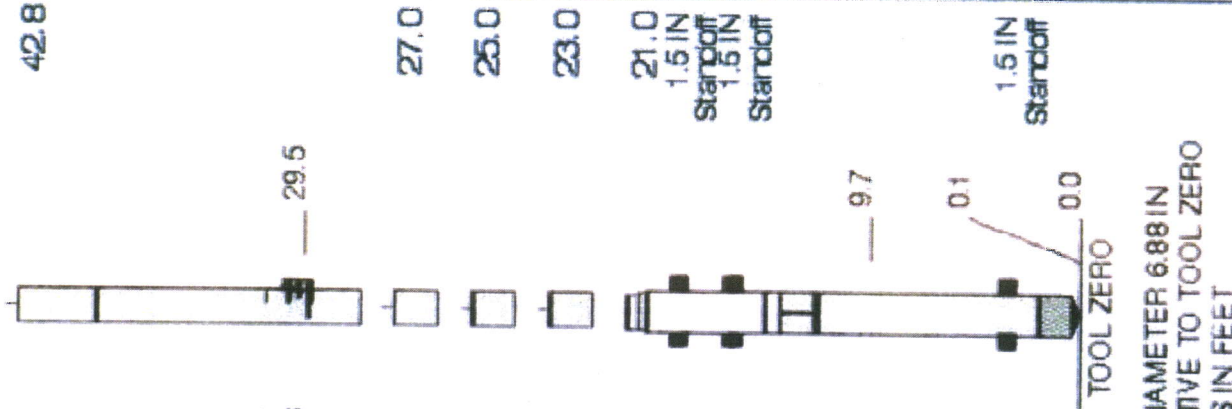
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 GSR-Z 3146  
 HLDV-D 42  
 HLDS-D 46  
 HEH-H 44  
 HLDP-C 46

AH-184 993  
 AH-184 993  
 AH-184 4906  
 AH-184 4906  
 AH-184 998  
 AH-184 998  
 ZAIT-DB  
 AXIS-A 40  
 AH-HF-A

Caliper  
SS LS Status

CalSig  
 Induction  
 Temperatu  
 Power Sup

SP SENSOR  
 ACCZ  
 GPIT HV DF  
 Mud Resis  
 Tension

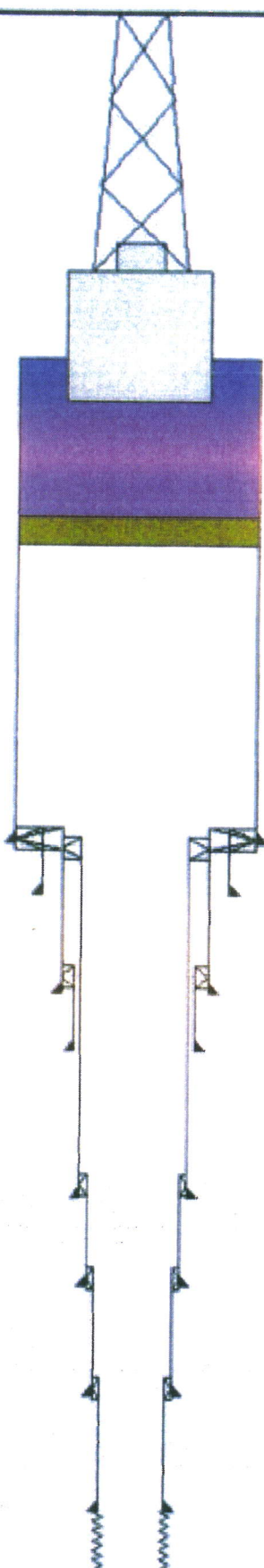
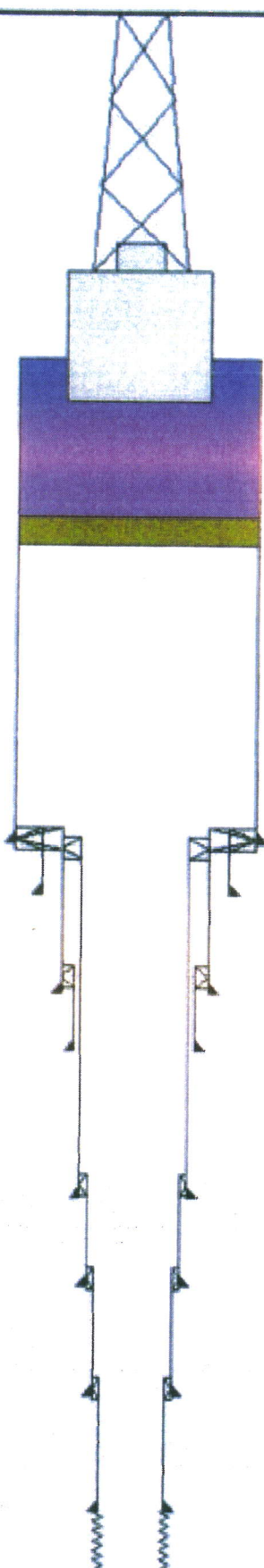
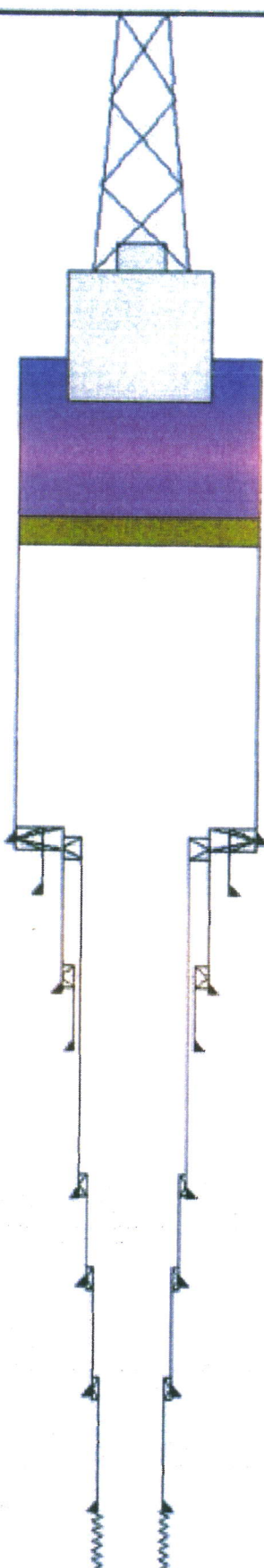
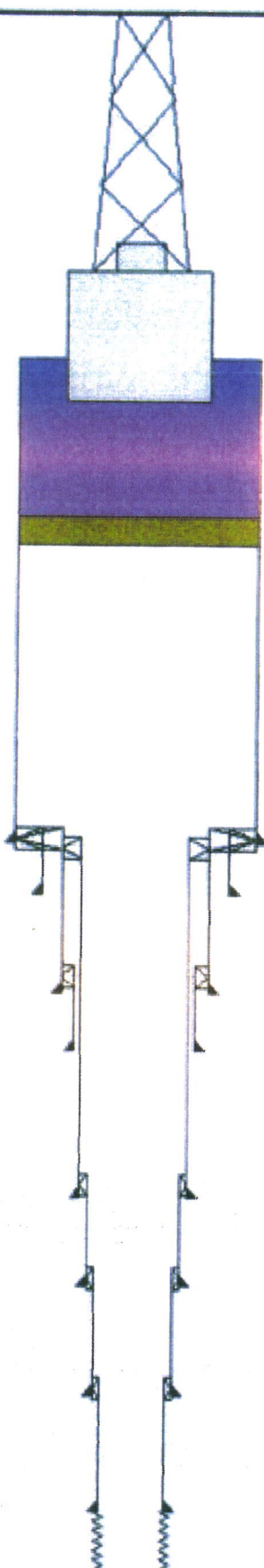
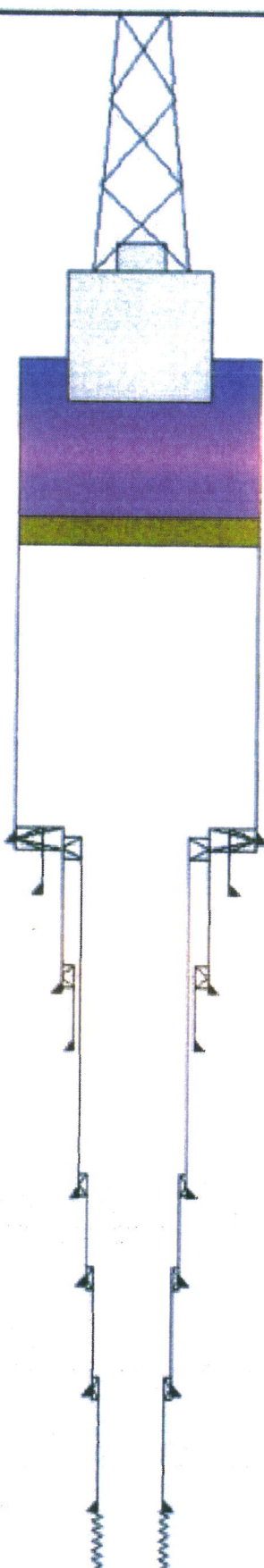
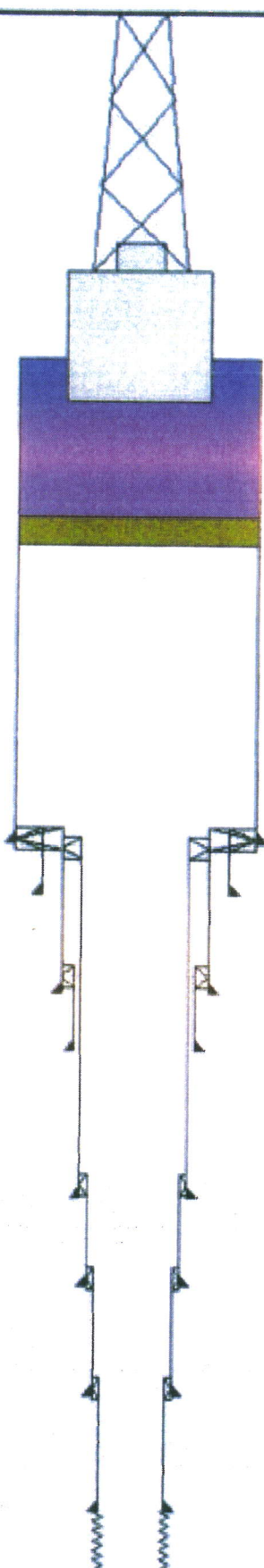
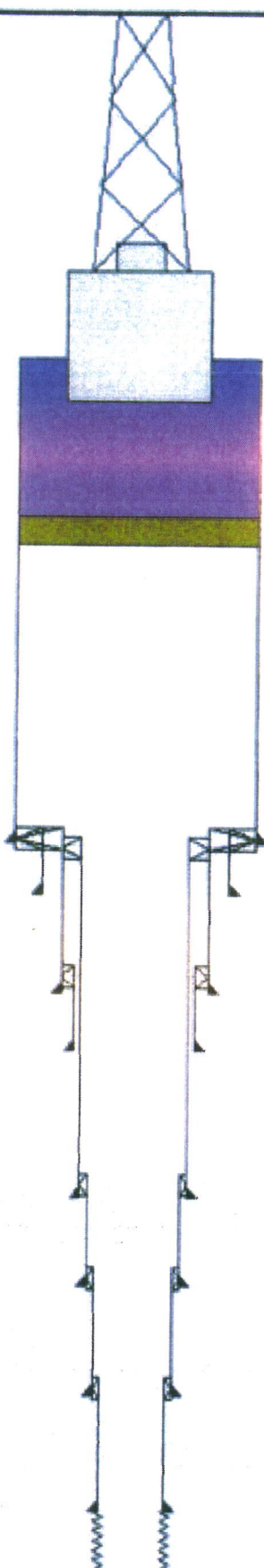
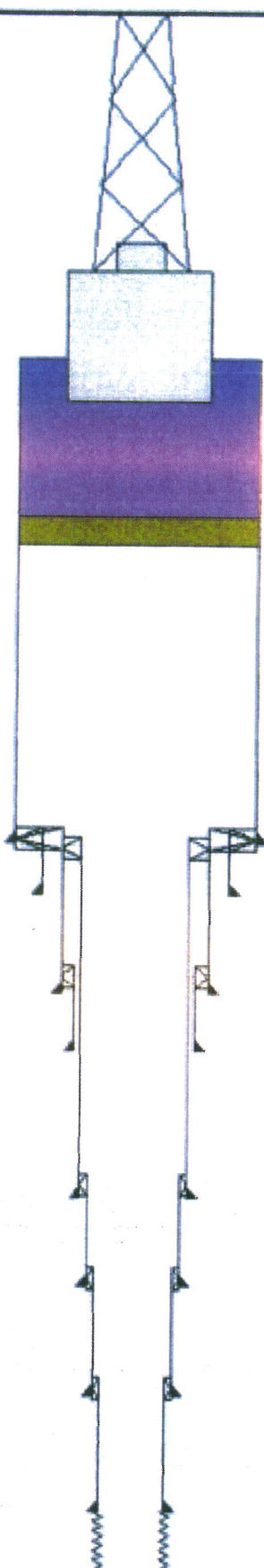


Client: BP Exploration & Production, Inc.  
 Well: OCS-G 32306 001 ST00BP01  
 Field: Mississippi Canyon 202  
 State: Gulf of Mexico

Drawing Date: 4/11/2010  
 API #: 608174116000

Rig Name: DW Horizon  
 Reference Datum: Rotary Table



Production String	(ft)			Well Schematic	(ft)			Casing String
	OO	D	MD		MD	OO	D	
Help Drilling Elevator Drilled Floor Elevation  Mean Sea Level			75.0 75.0  0.0		0.0 20.000			
					6221.0 6221.0 6221.0 6221.0 6217.0	20.000 20.000 20.000 20.000 20.000	15.204 15.204 15.204 15.204 15.204	Casing String  Casing String Casing String Casing String Casing String
					7099.0 7480.0  8050.0	20.000 20.000 20.000 20.000	10.000 10.000 10.000 10.000	Casing String Liner Hanger  Casing String
					11350.0 11153.0	10.000 10.000	10.000 10.000	Casing String Liner Hanger
					12845.0 12803.0	10.000 10.000	10.000 10.000	Casing String Liner Hanger
					15700.0 14750.0	10.000 10.000	10.000 10.000	Casing String Liner Hanger
					17160.0 17160.0	10.000 10.000	10.000 10.000	Casing String Liner Hanger
					18350.0	10.000	10.000	Casing String Liner Hanger

**Schlumberger**

MAIN PASS 5" = 100'

MAXIS Field Log

Company: BP GOM Deepwater - Macondo

Well: OCS-G 32306 001 STD08P01

### Input DLIS Files

DEFAULT	AIT_LDL_CNL_070LUP	FN:72	PRODUCER	11-Apr-2010 02:32	18288.0 FT	16805.0 FT
---------	--------------------	-------	----------	-------------------	------------	------------

### Output DLIS Files

DEFAULT	AIT_LDL_CNL_071PUP	FN:74	PRODUCER	11-Apr-2010 03:31	18286.5 FT	16727.0 FT
BACKUP_MACONDDT_LDL_CNL_071PUP		FN:75	PRODUCER	11-Apr-2010 02:31	18286.5 FT	16727.0 FT

### Integrated Hole/Cement Volume Summary

Hole Volume = 599.44 F3

Cement Volume = 300.40 F3 (assuming 7.00 IN casing O.D.)

Computed from 18286.5 FT to 17168.0 FT using data channel(s) LCAL

### OP System Version: 17C0-154

ZA1T-DB	SPC-3859-ZAIT	HLDS	SPC-3961-OP17_NUCL
LDSC-B	SPC-3961-OP17_NUCL	CNT-K	17C0-154
GP1T-C	SRPC-3971-Q1_2010_OP17	EDTC-B	SKK-3882-EDTCB

#### PIP SUMMARY

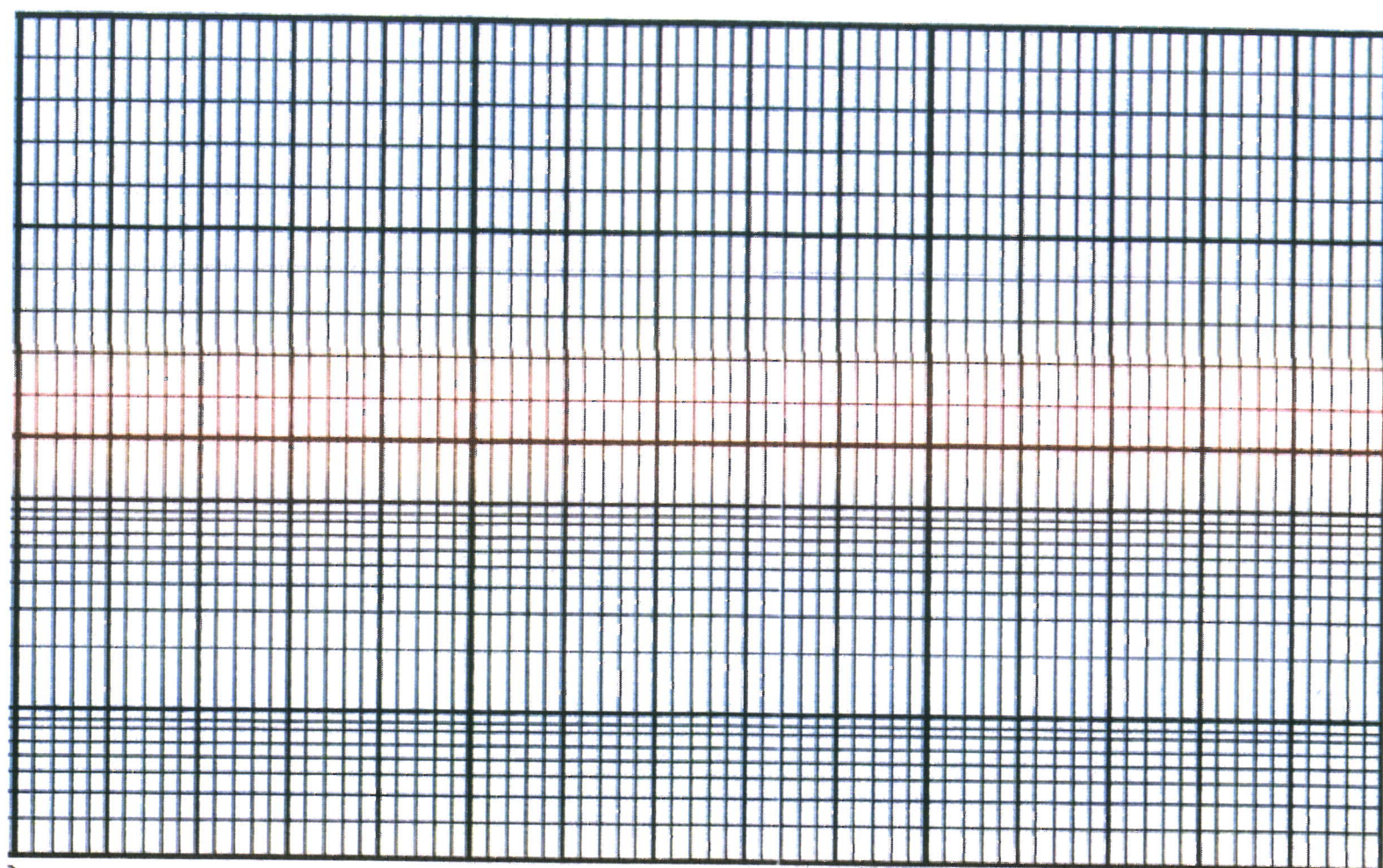
└ Integrated Hole Volume Minor Pip Every 10 F3  
└ Integrated Hole Volume Major Pip Every 100 F3  
└ Integrated Cement Volume Minor Pip Every 10 F3  
└ Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S



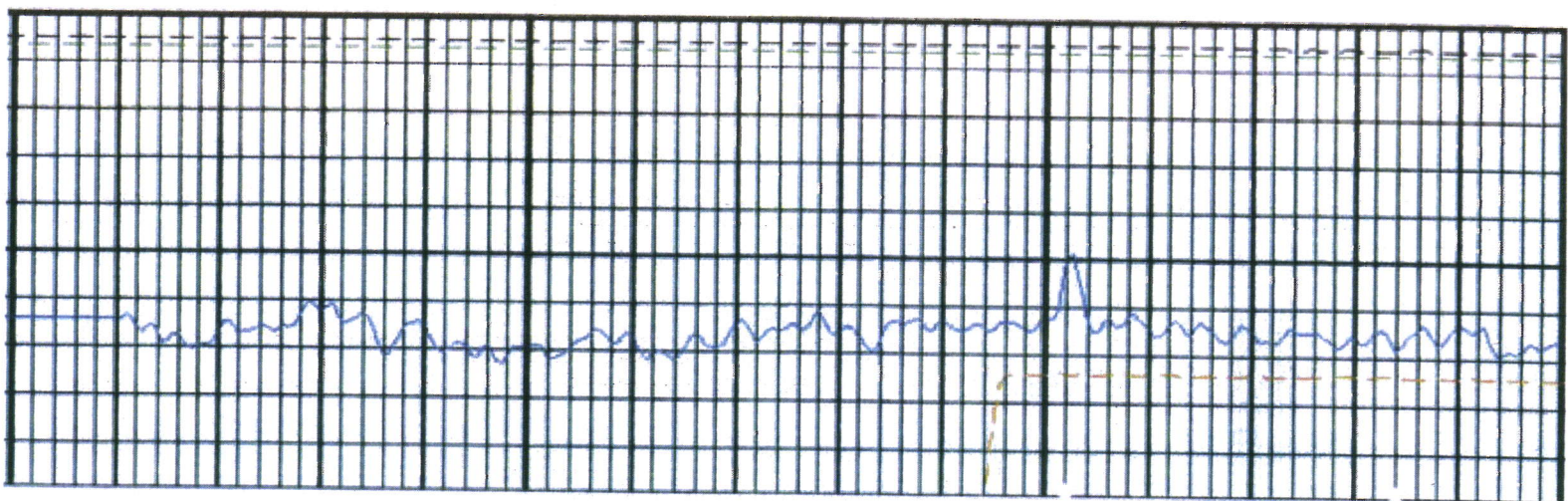
<u>Tension (TENS)</u> (LBF)		<u>AUT 90 inch Investigation (AT90)</u> (OHMM)		20
16000		0.2		20
<u>HILDS Caliper (LCAL)</u> (IN)		<u>AUT 60 inch Investigation (AT60)</u> (OHMM)		20
6		0.2		20
<u>Tool/Tal. Drag</u> <u>From D3T to STIA</u>		<u>AUT 30 inch Investigation (AT30)</u> (OHMM)		20
16		0.2		20
<u>Gamma Ray (GR EDTC)</u> (GAPI)		<u>AUT 20 inch Investigation (AT20)</u> (OHMM)		20
0		0.2		20
<u>Calibrated Downhole Force (CDF)</u> (LBF)		<u>AUT 10 inch Investigation (AT10)</u> (OHMM)		20
10000		0.2		20
<u>Stuck Stretch (STIT)</u> (F)		0		50
0		0		50
<u>Area</u> <u>From HILDS BULK DENSITY to NPOR</u>		<u>HLDS Bulk Density Correction (DRH)</u> (G/CJ)		2.65
Alpha Processed Neutron Porosity (NPOR) (PU)		0.1		-0.9
0		0.1		2.65



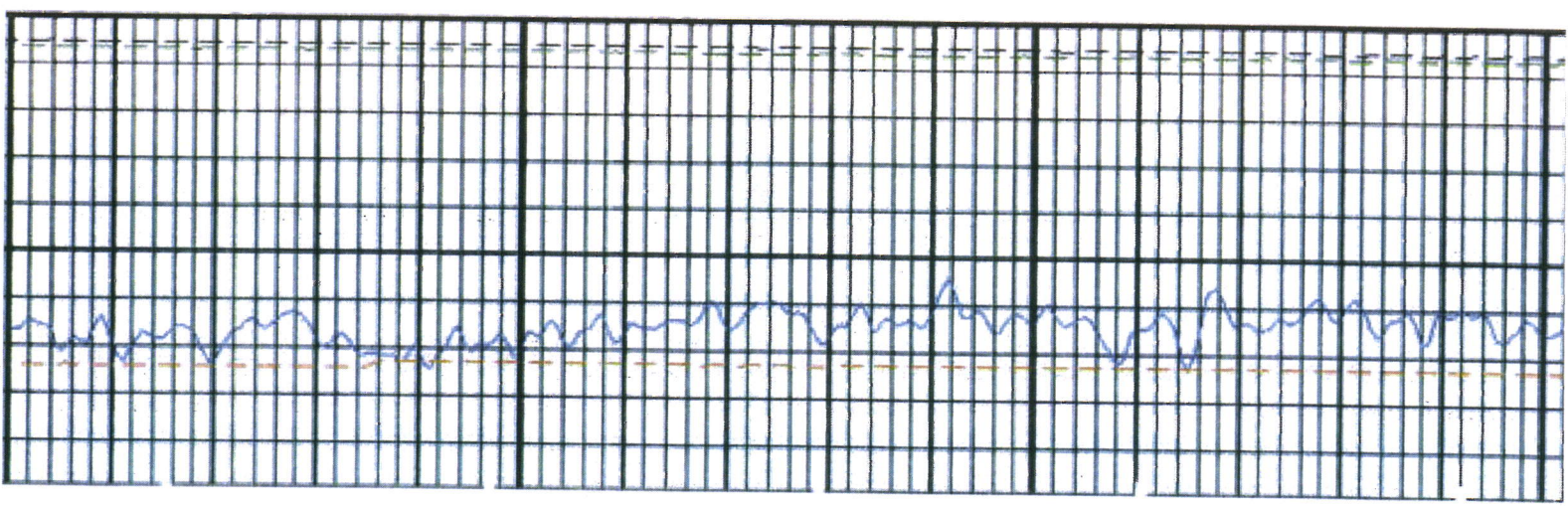
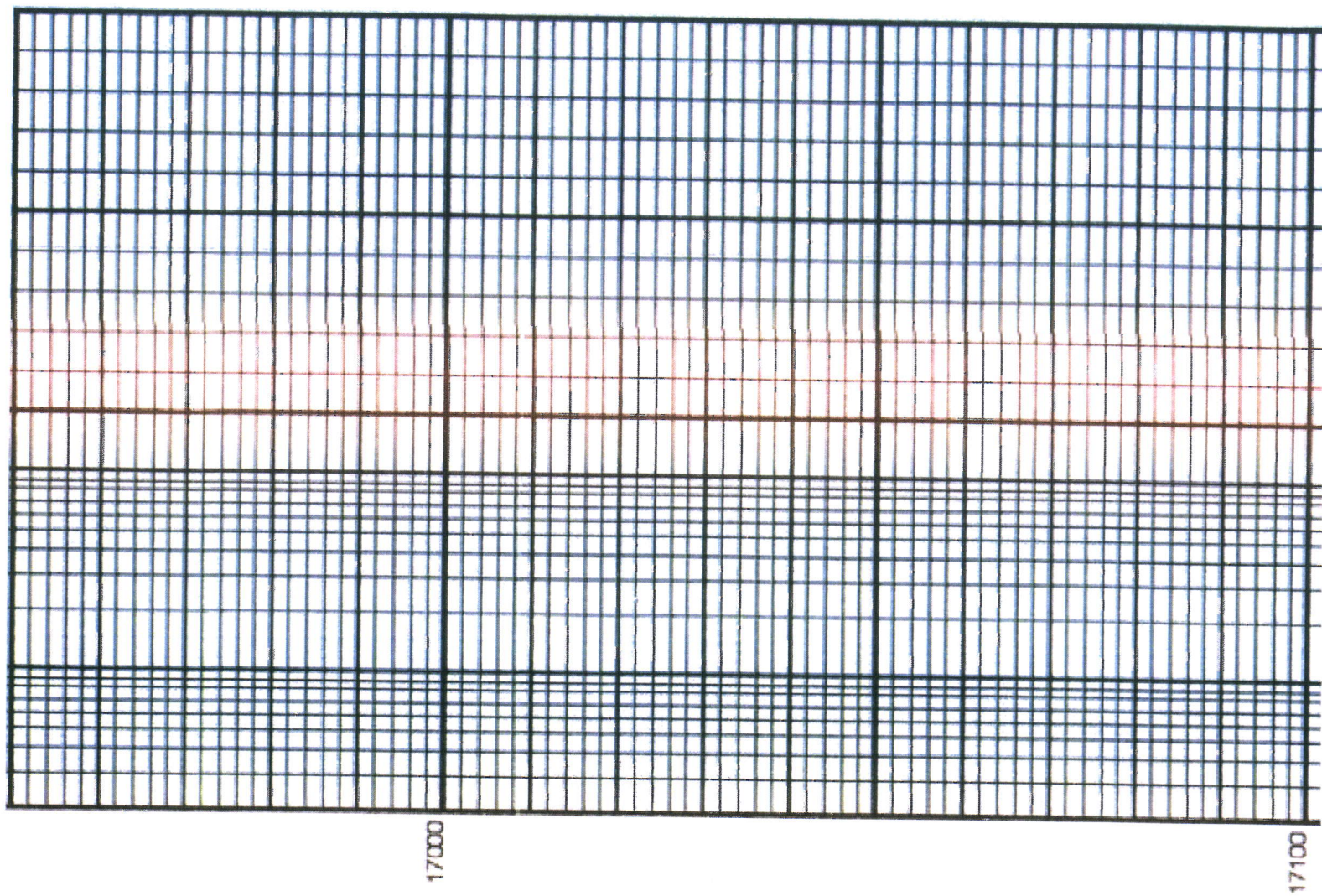


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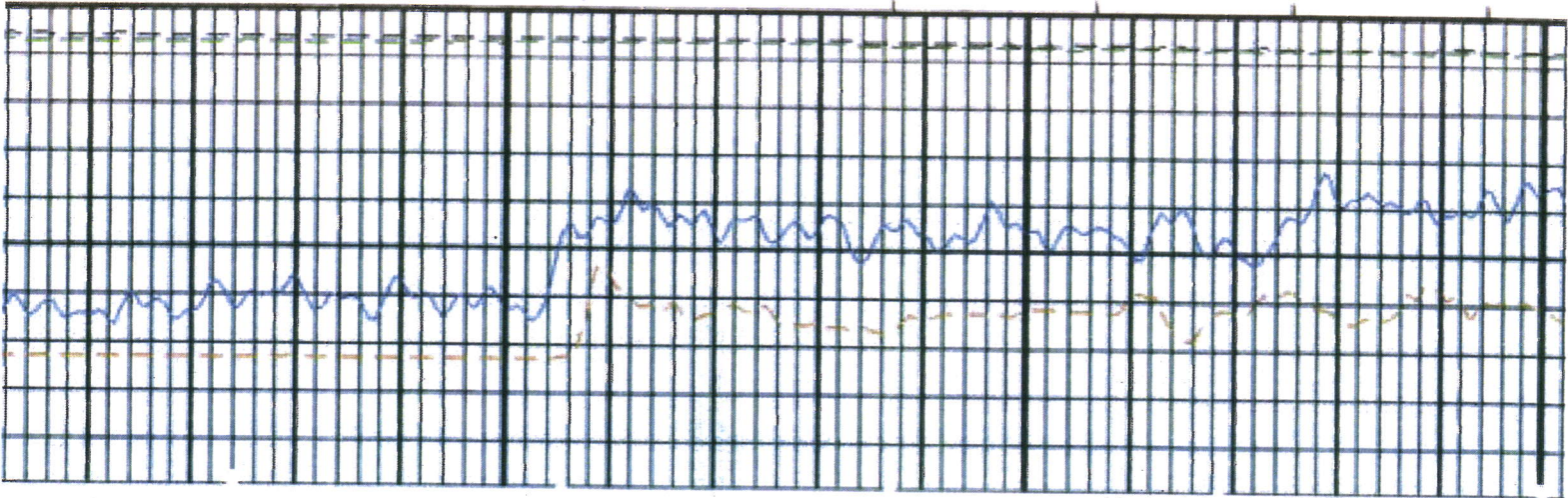
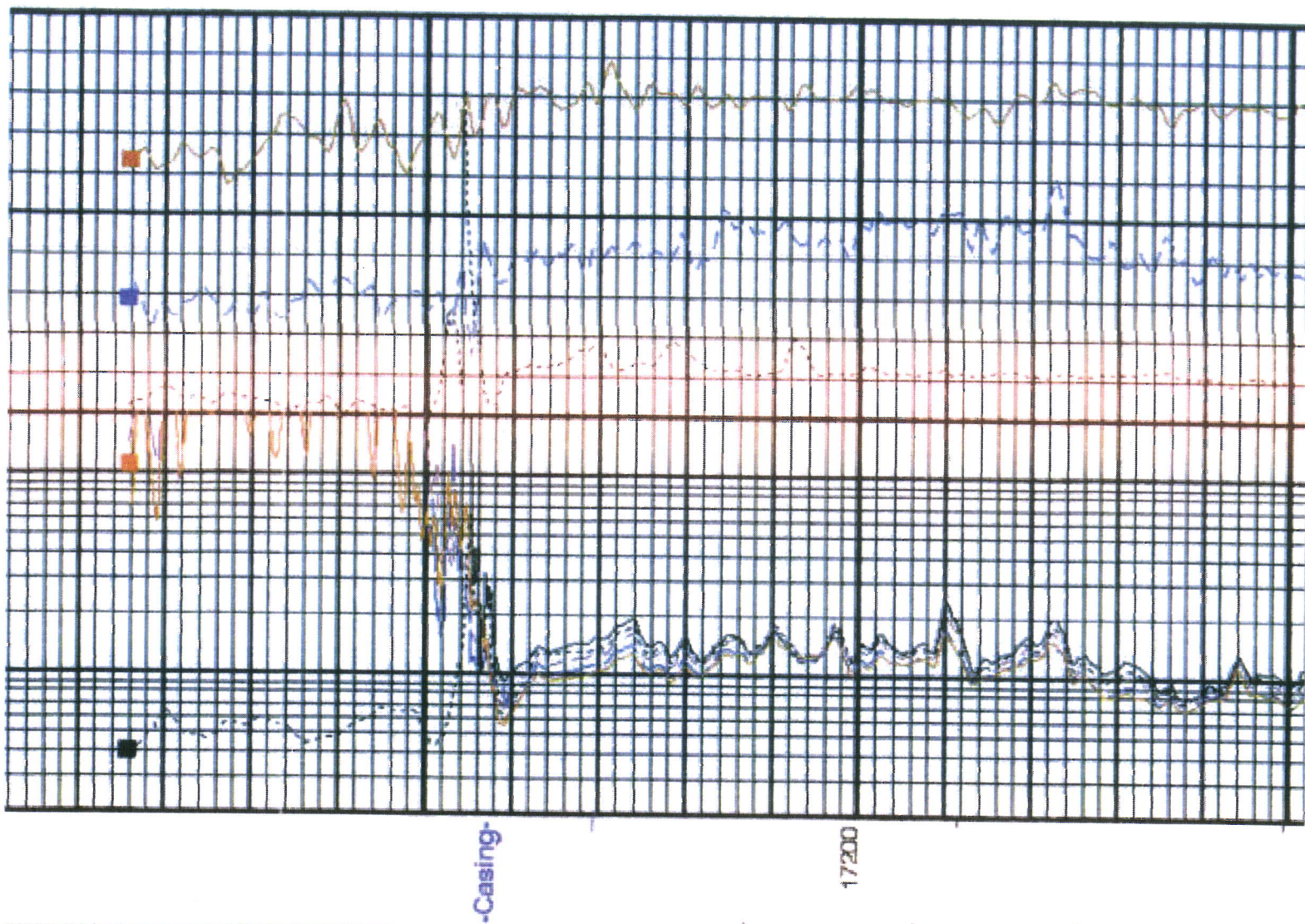
16800



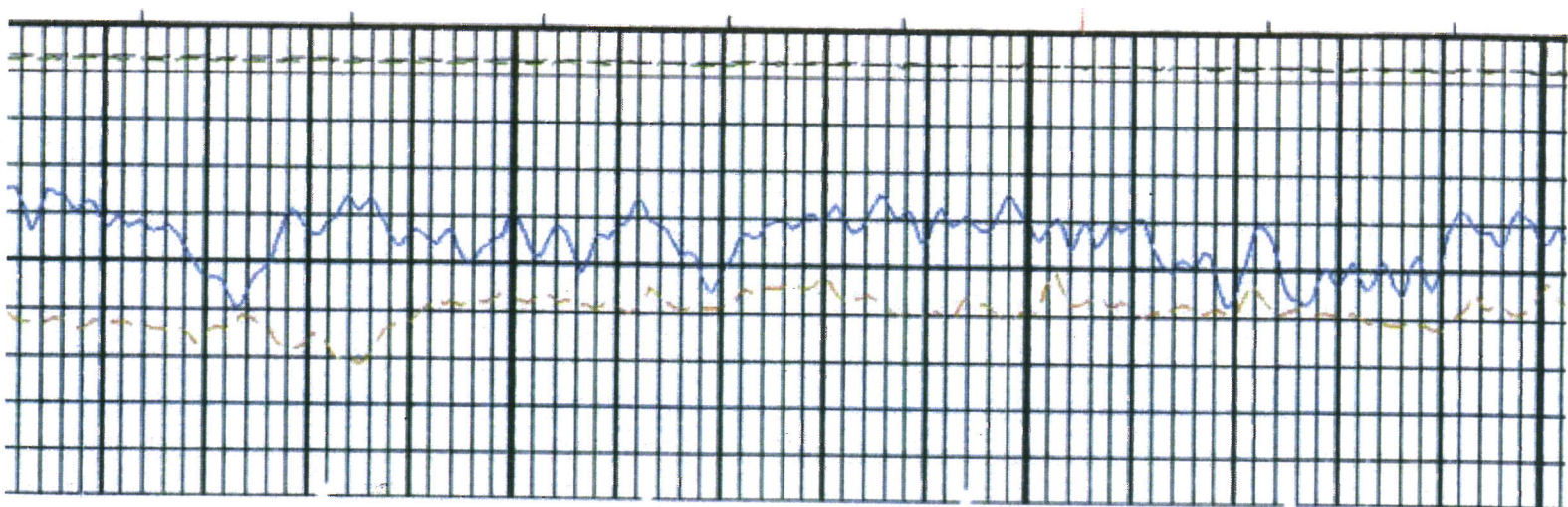
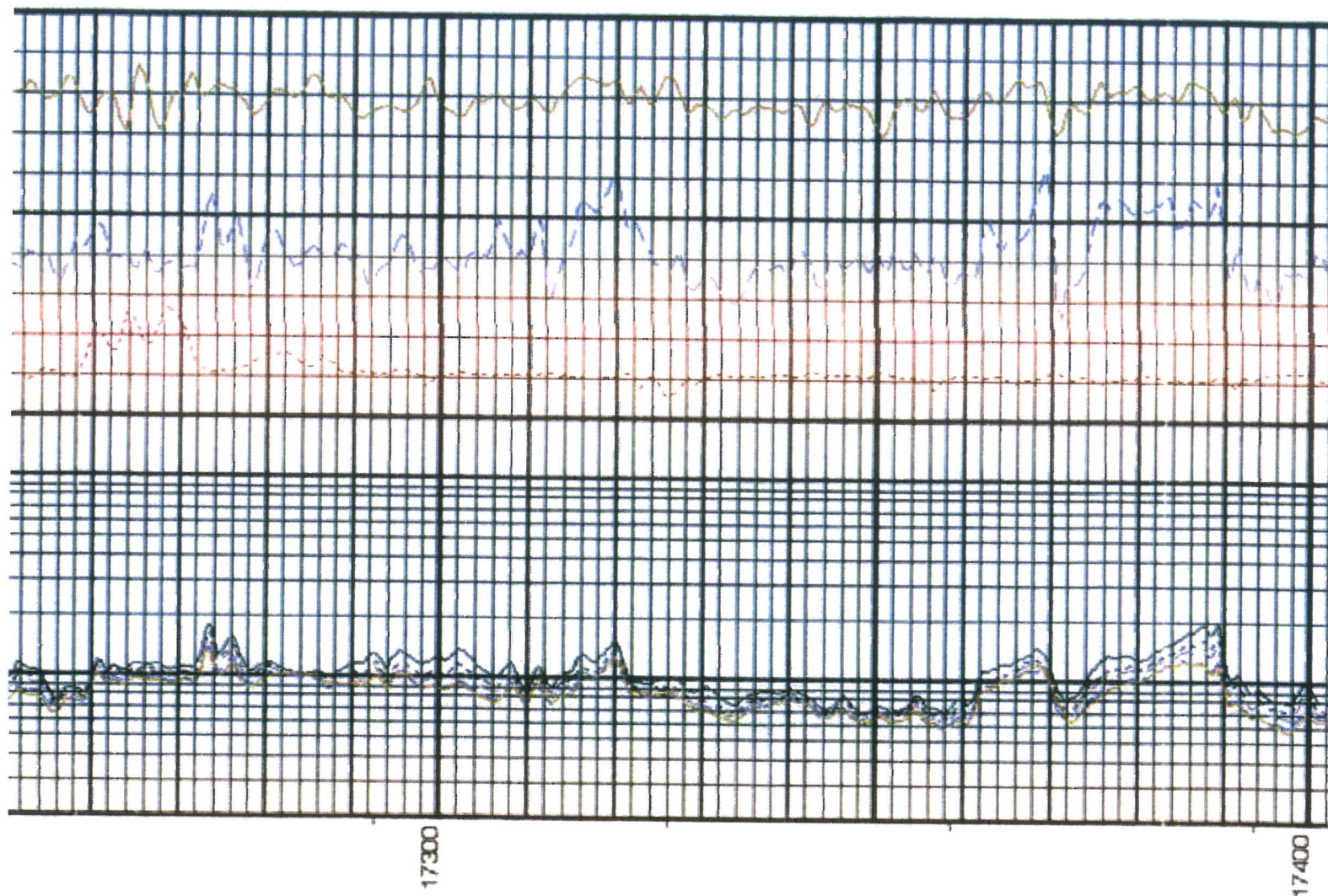




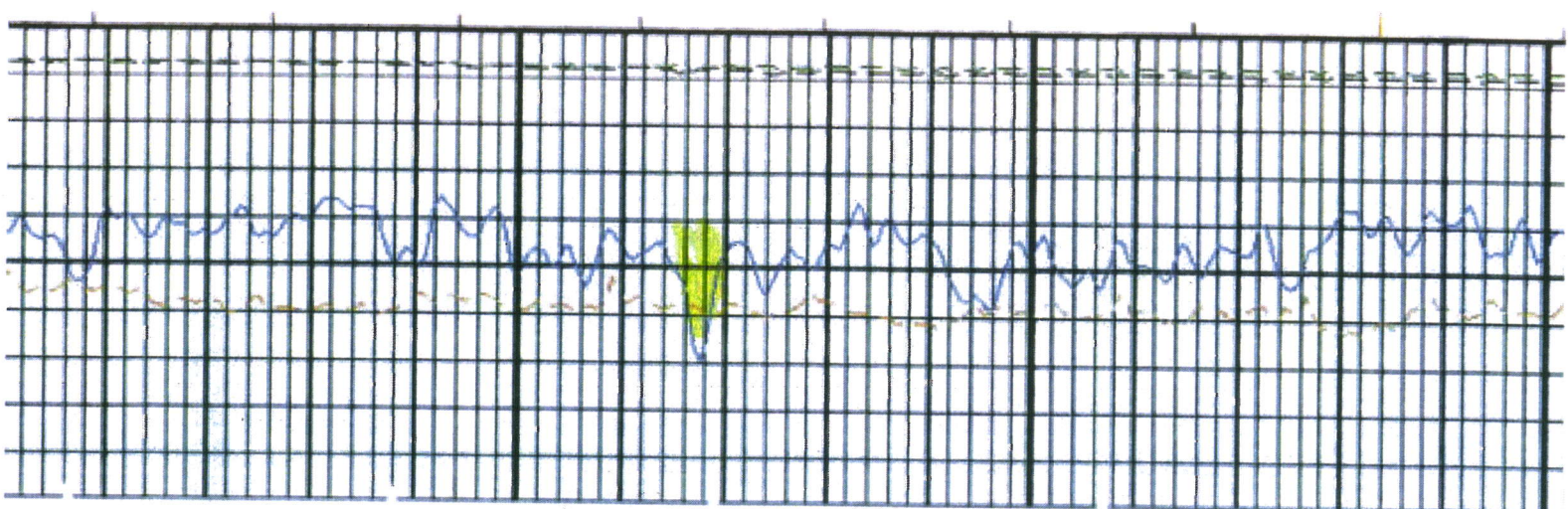
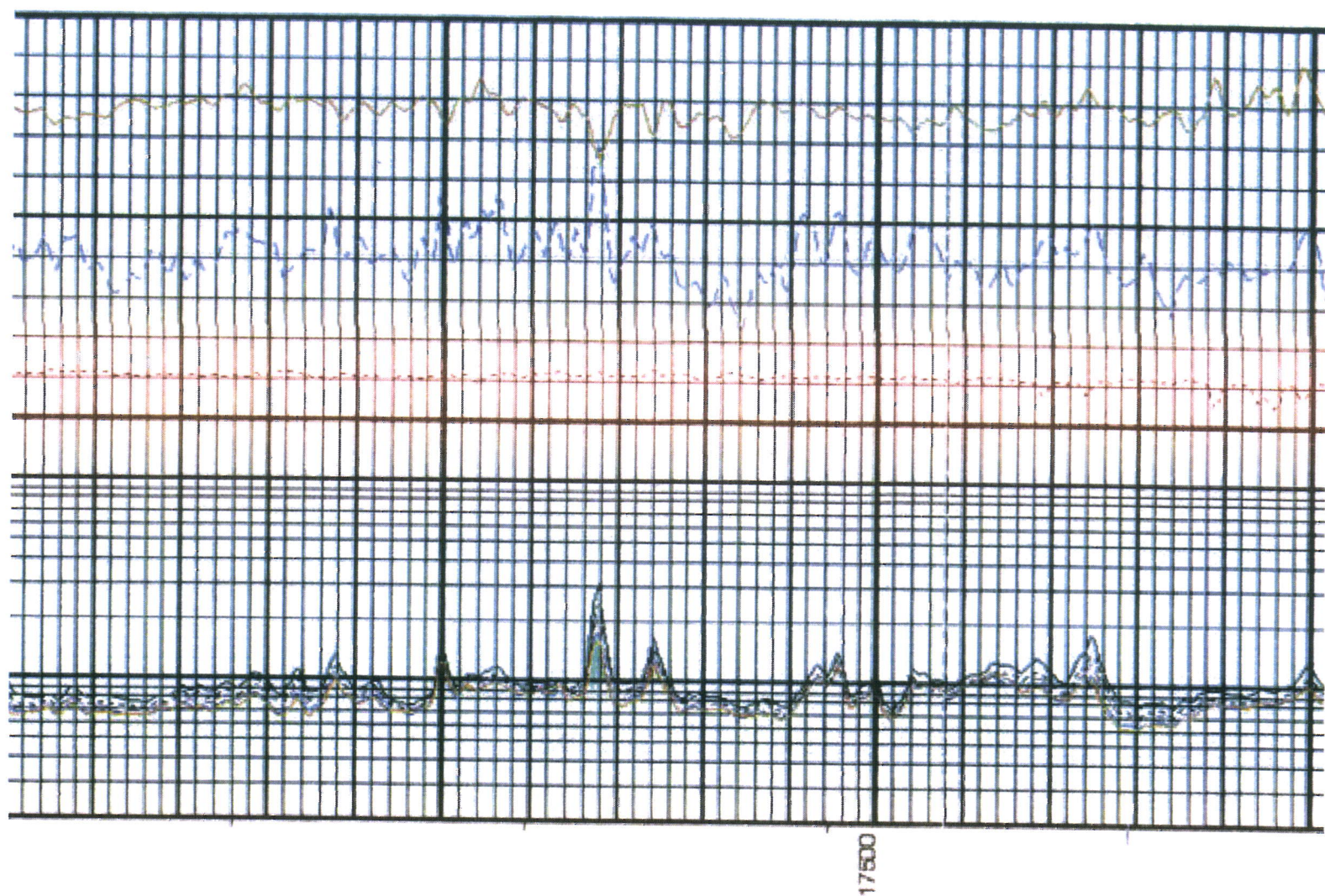




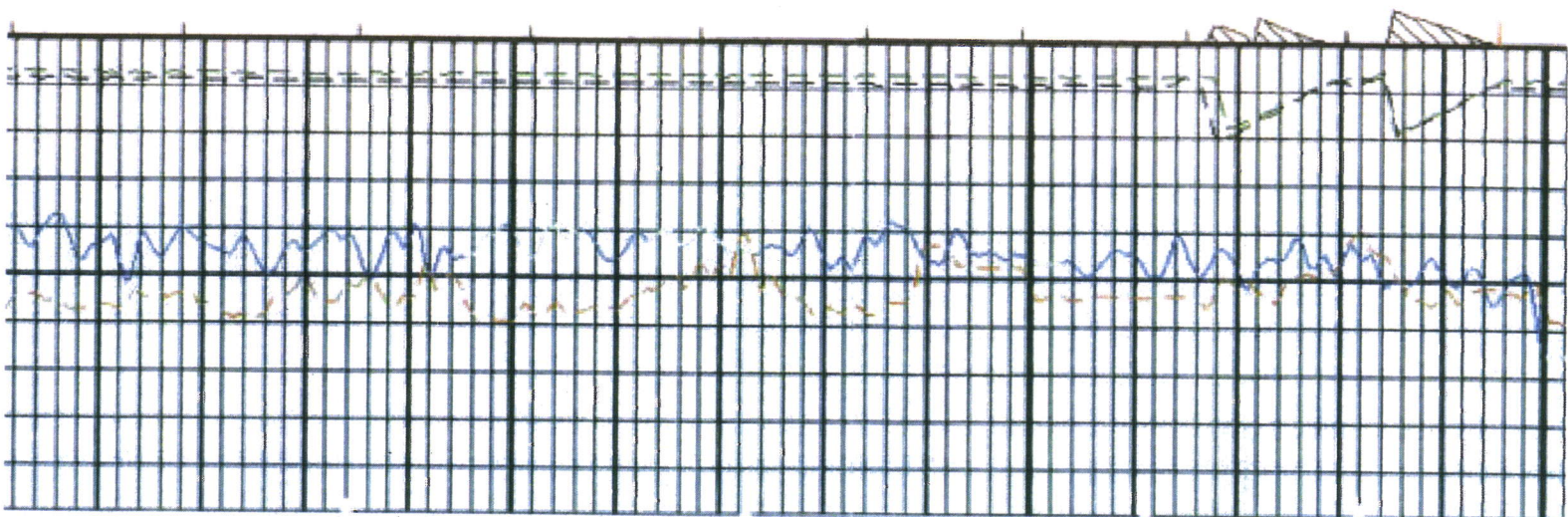
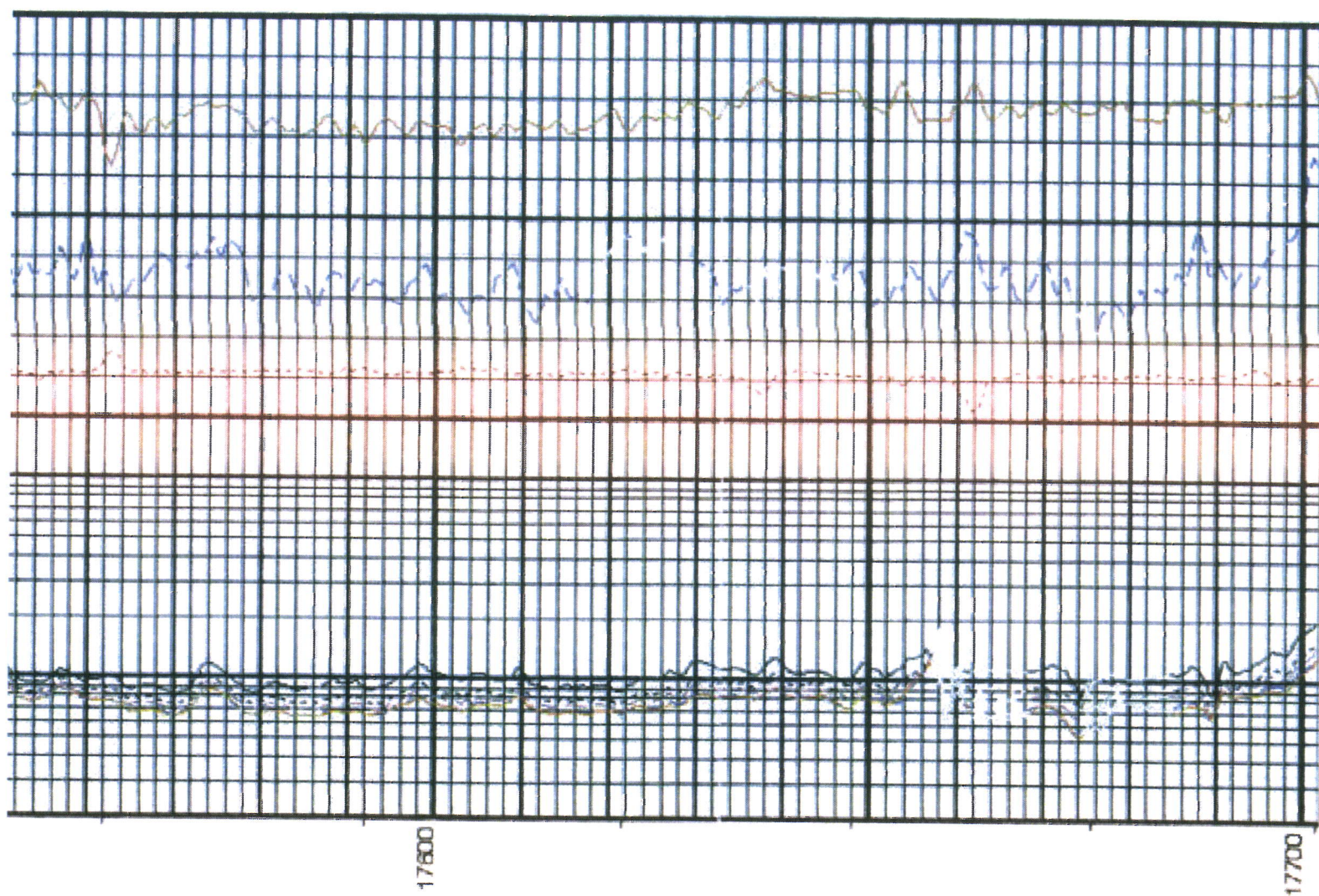




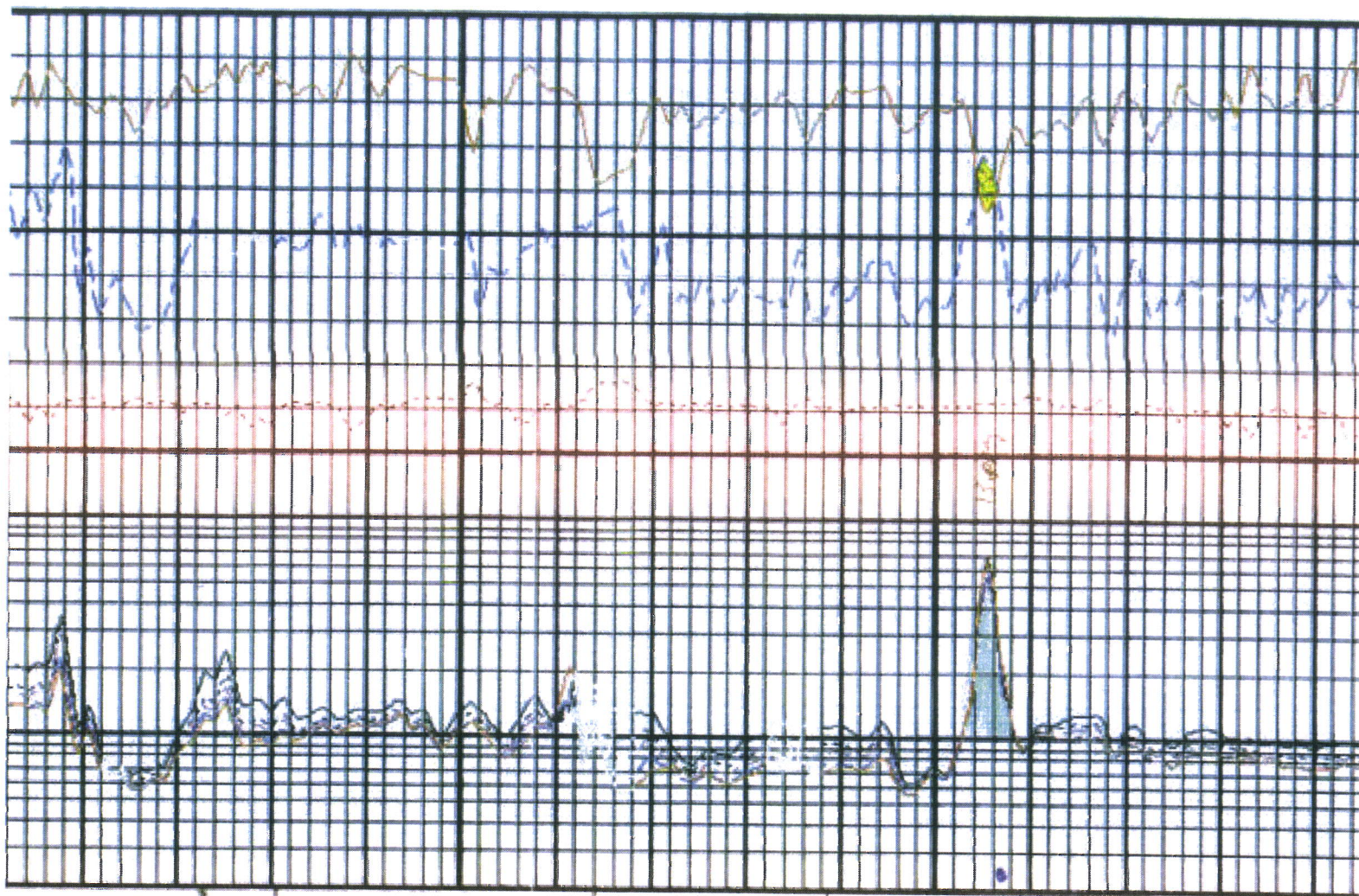






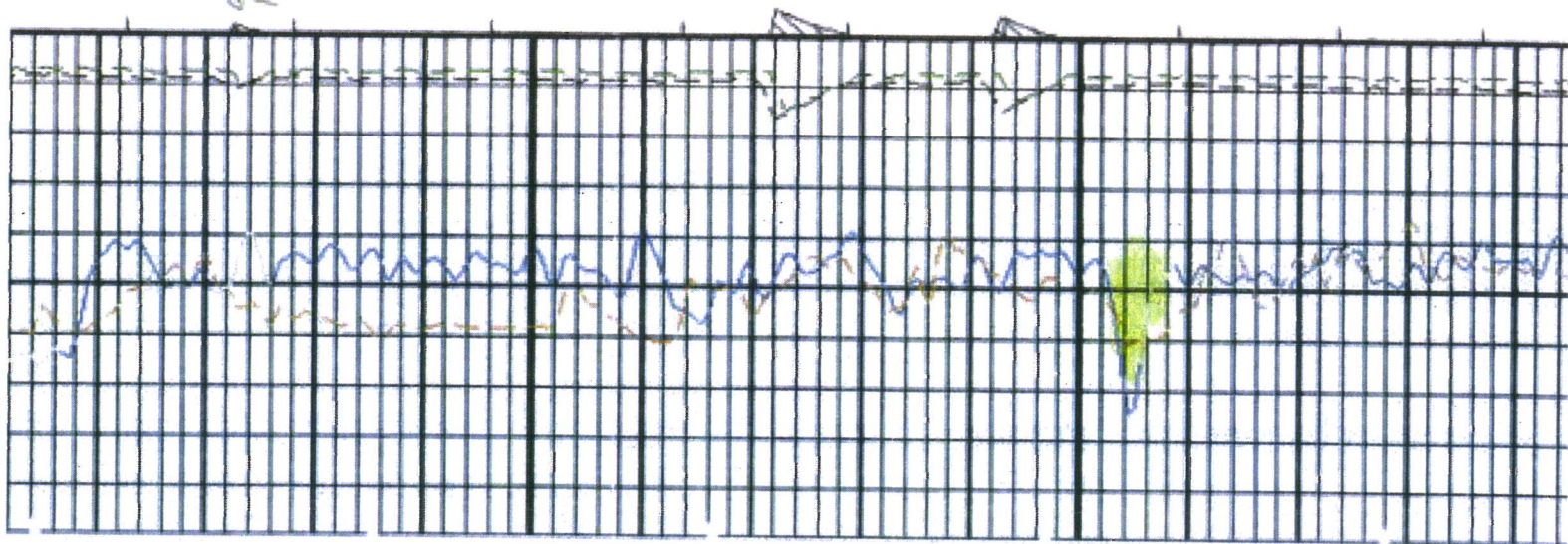




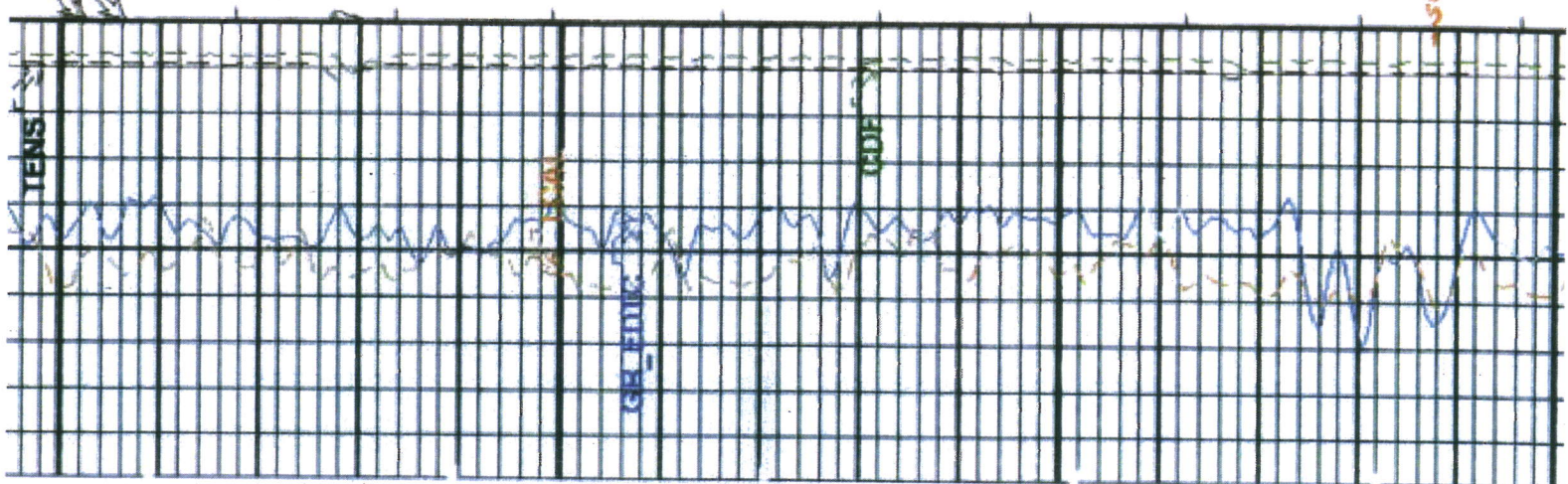
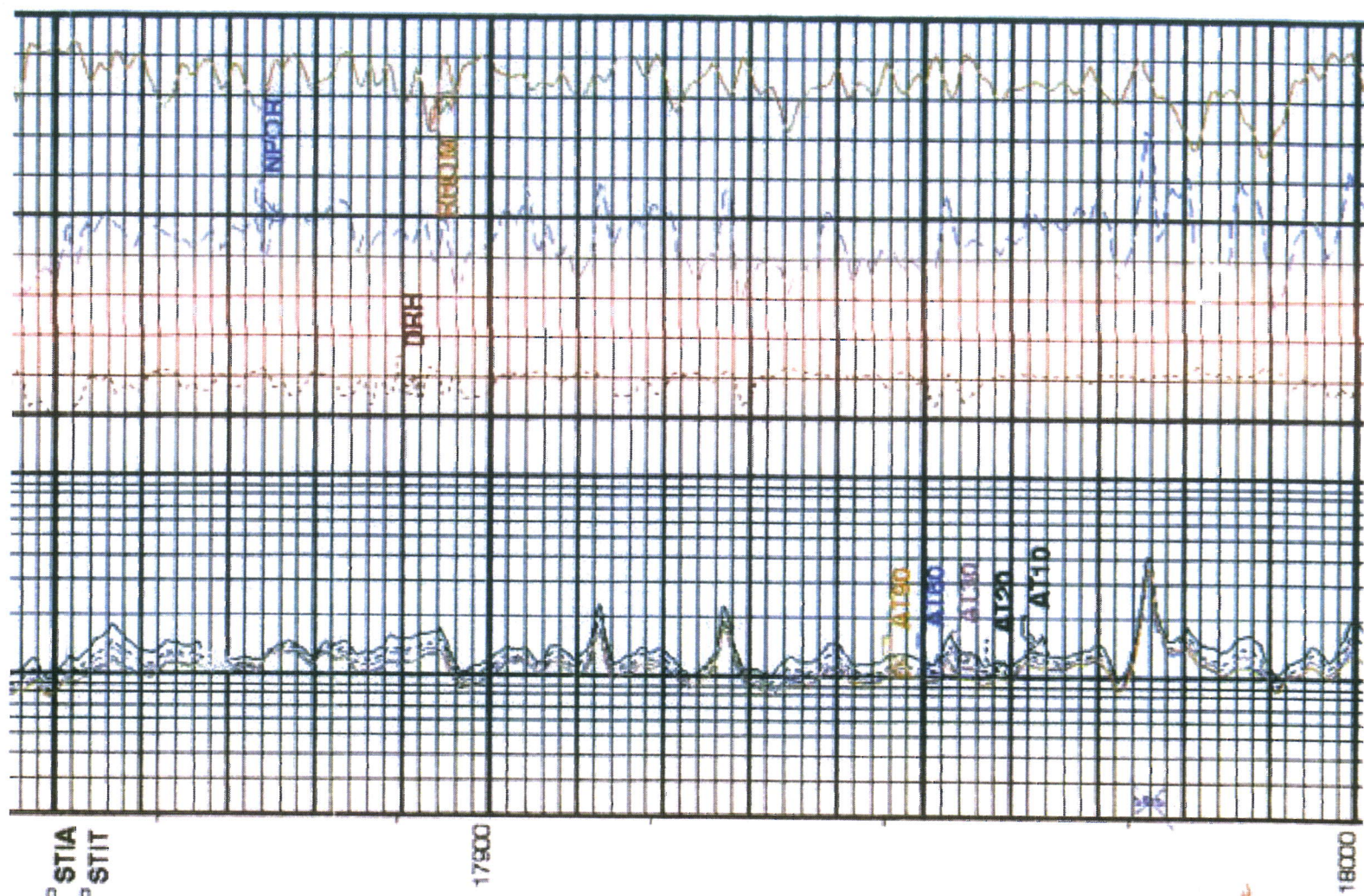


17800  
17800

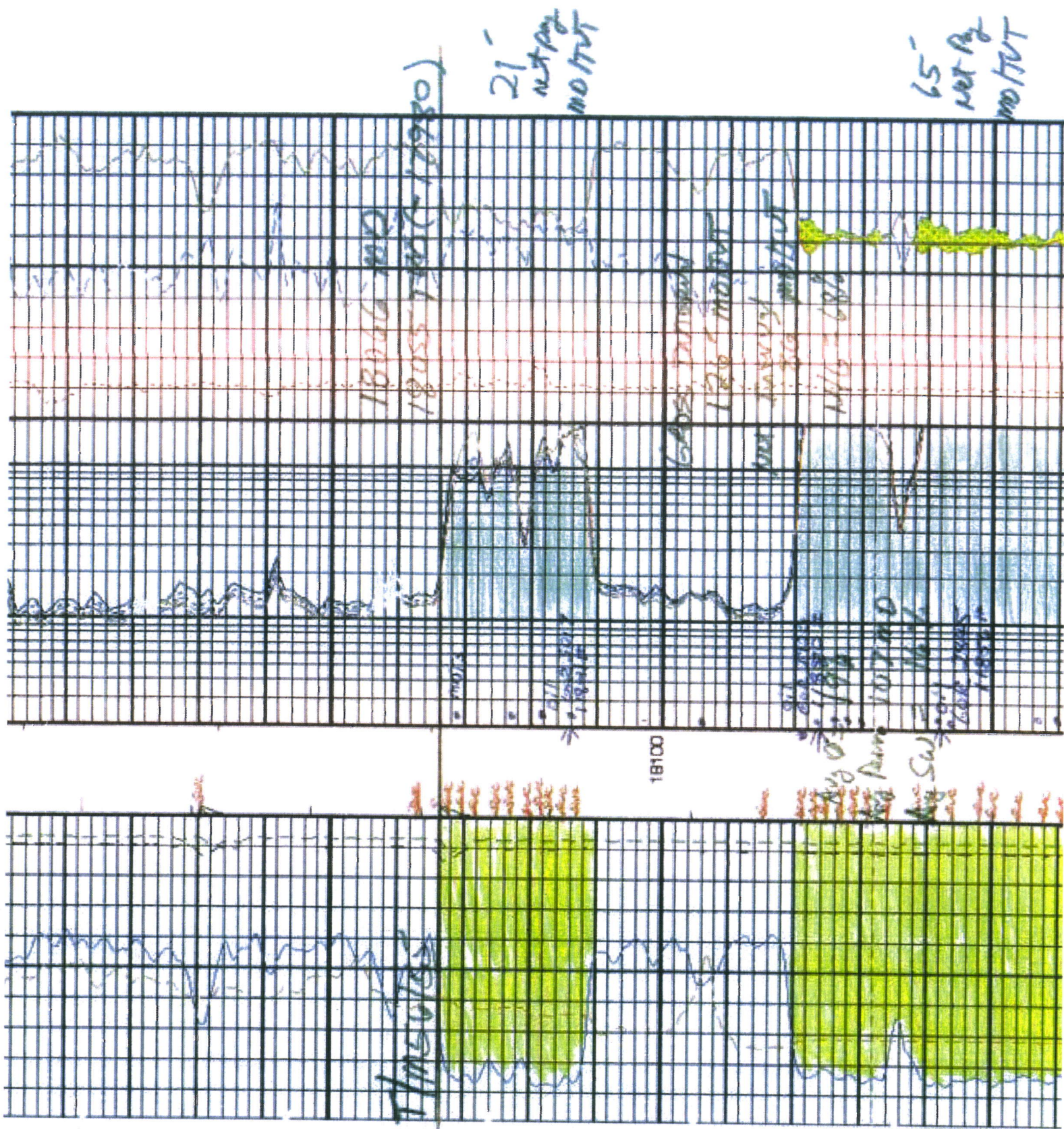
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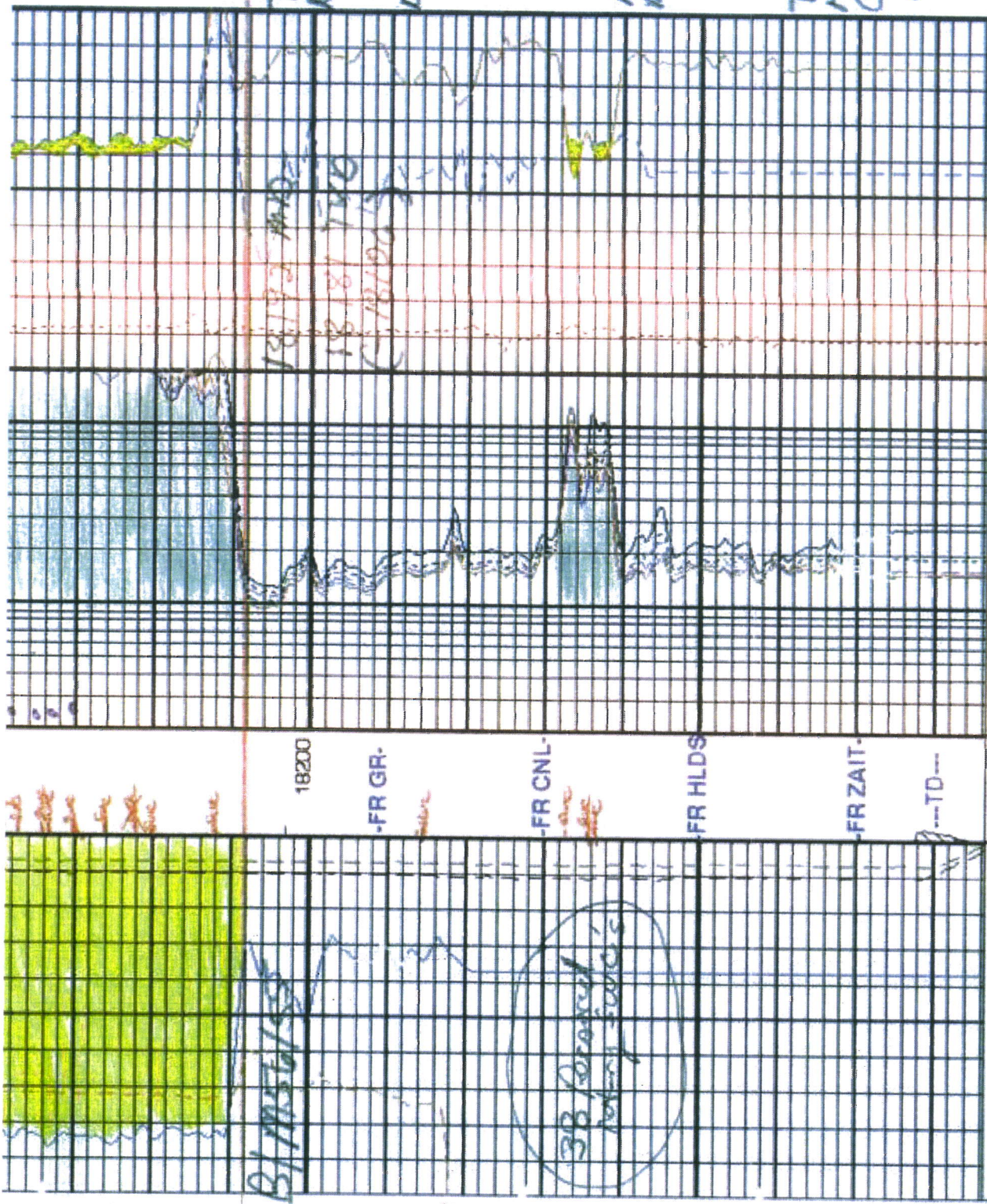












Total  
Net Pay  
86  
Net MDI  
TVT

G  
Net Pay  
MDI/TVT

Total  
Net Pay  
Count  
98  
TVT

Calibrated Downhole Force (CDF) (LBF)	0	10000
Stuck Stretch (STIT) (F)	0	50
Gamma Ray (GR EDTC) (GAPI)	150	0
Cable Drag From STIA to STIT	0.2	0.2
AIT 20 Inch Investigation (AT20) (OHMM)	20	20
AIT 10 Inch Investigation (AT10) (OHMM)	20	20
HLDs Bulk Density (RHOM) (G/C3)	1.65	2.65
HLDs Bulk Density Correction (DRH) (G/C3)	0.1	-0.9



HILDS Caliper (LCAL) (IN)	6	16	Tool/Tol. Drag From D3T to STIA	AIT 30 Inch Investigation (AT30) (OHMM)	0.2	20	Alpha Processed Neutron Porosity (NPOR) (PU)	60	0
Tension (TENS) (LBF)	16000	6000		AIT 60 Inch Investigation (AT60) (OHMM)	0.2	20	Area From HILDS BULK DENSITY to NPOR		
				AIT 90 Inch Investigation (AT90) (OHMM)	0.2	20			

**Time Mark Every 60 S**

**PIP SUMMARY**

- Integrated Hole Volume Minor Pip Every 10 F3
- Integrated Hole Volume Major Pip Every 100 F3
- Integrated Cement Volume Minor Pip Every 10 F3
- Integrated Cement Volume Major Pip Every 100 F3

**Time Mark Every 60 S**

**ZAiT Answer Product Processing Summary. Data taken with tool # 40**

\*\*\*\*\* Bore Correction \*\*\*\*\*

Tool is run in ECCENTERED mode with a tool stand-off of 1.50 IN. Bit Size is 9.88 IN.

\*\*\*\*\* Input Selections to ZAIT Answer Product processing \*\*\*\*\*

Caliper (GCSE): LCAL Mud Resistivity (GRSE): GEN\_9 Temperature (GTSE): GRADIENT FROM BOTTOM Porosity (FPHI): DPO

\*\*\*\*\* Other parameters used by ZAIT Answer Product processing \*\*\*\*\*

Mud Sample Resistivity (RMS) -50000.000 OHMM Mud Sample Temperature (MST) -50000.000 DEGF

Form Factor Exponent (FEXP) 2.150 Form Factor Numerator (FNUM) 0.620

Mud Filtrate Sample Resistivity (RMFS) -50000.000 OHMM Mud Filtrate Sample Temperature (MFST) -50000.000 DEGF

Resistivity Connate Water (RW) 1.000 OHMM

\*\*\*\*\* ZAIT Answer Product processing control parameters \*\*\*\*\*

**Playback Mode: NORMAL**

Parameters	
DLIS Name	Description Value
ZAiT-DB: 3-D Array Induction Tool - ZAIT-DB	
ABLM	Array Induction Basic Logs Mode
ABLV	Array Induction Basic Logs Code Version Number
ACDE	Array Induction Basic Logs Code Version Number
ACSED	Array Induction Casing Detection Enable
AFRSV	Array Induction Casing Shoe Estimated Depth
AORSV	Array Induction Response Set Version for Four ft Resolution
ARPV	Array Induction Response Set Version for One ft Resolution
ATRSV	Array Induction Radial Profiling Code Version Number
BHS	Array Induction Radial Parameterization Code Version Number
BHT	Array Induction Response Set Version for Two ft Resolution
FEXP	Borehole Status
GCSE	Bottom Hole Temperature (used in calculations)
GDEV	Form Factor Exponent
	Form Factor Numerator
	Generalized Caliper Selection
	Average Angular Deviation of Borehole from Normal



GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART GEN 9	
GTSE	Generalized Temperature Selection	GRADIENT_FROM_BOTTOM	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	85	DEGF
TRI1DV	3D 1D Code Version Number	0	
TRI1HM	3D Induction Borehole Correction Mode	21 ComputeOBMP lusDiNormal	
TRI1HV	Array Induction Borehole Correction Code Version Number	20100	
TRI1SV	3D Induction Response Set Version	00,10,24,00	
TRI1RT	3D Rotation Selector	NORTH	
TRI1TA	3D Tool Standoff	1.5	IN
	HLDS: Hostile Litho-Density Sonde		
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	ON	
MDEN	Matrix Density	2.65	G/C3
	CNT-K: Compensated Neutron - K		
BHFL	Borehole Fluid Type	OIL	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	185	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	26000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	
GGRD	Geothermal Gradient	0.01	DEG DF/F
GRSE	Generalized Mud Resistivity Selection	CHART GEN 9	
GTSE	Generalized Temperature Selection	GRADIENT_FROM_BOTTOM	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOF	Mud Correction	BARI	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	85	DEGF
SOCN	Standoff Distance	0.5	IN
SOCO	Standoff Correction Option	NO	
	EDTC-B: Enhanced DTS Cartridge		
BHFL	Borehole Fluid Type	OIL	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	185	DEGF
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	
GGRD	Geothermal Gradient	0.01	DEG DF/F
GRSE	Generalized Mud Resistivity Selection	CHART GEN 9	
GTSE	Generalized Temperature Selection	GRADIENT_FROM_BOTTOM	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOF	Mud Correction	BARI	
MWCO	Mud Weight Correction Option	NO	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	85	DEGF



SOCN	Standard Distance	0.5	IN
SOCO	Standard Correction Option	NO	
SPVD	DIR: Directional Survey Computation		
TIMD	TVD of Starting Point	0	FT
TIVD	Along-hole depth of Tie-in Point	0	FT
	TVD of Tie-in Point	0	FT
BHS	HOLEV: Integrated Hole/Cement Volume		
BHT	Borehole Status	OPEN	
FCD	Bottom Hole Temperature (used in calculations)	185	DEGF
GCSE	Future Casing (Outer) Diameter	7	IN
GDEV	Generalized Caliper Selection	LCAL	
GGRD	Average Angular Deviation of Borehole from Normal	0	DEG
GRSE	Geothermal Gradient	0.01	DF/F
GTSE	Generalized Mud Resistivity Selection	CHART GEN 9	
HVCS	Generalized Temperature Selection	GRADIENT FROM BOTTOM	
MATR	Integrated Hole Volume Caliper Selection	LCAL	
SHT	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
	Surface Hole Temperature	85	DEGF
LBFR	STI: Stuck Tool Indicator		
STKT	Trigger for MAXIS First Reading Label	TDL	
TDO	STI Stuck Threshold	2.5	FT
TDL	Total Depth - Driller	18260.00	FT
	Total Depth - Logger	18290.00	FT
BS	System and Miscellaneous		
BSAL	Bit Size	9.875	IN
CSIZ	Borehole Salinity	26000.00	PPM
CWEI	Current Casing Size	9.875	IN
DFD	Casing Weight	62.80	LB/F
DO	Drilling Fluid Density	14.00	LB/G
FLEV	Depth Offset for Playback	-1.0	FT
MST	Fluid Level	0.00	FT
PP	Mud Sample Temperature	-50000.00	DEGF
RMFS	Playback Processing	NORMAL	
TD	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
	Total Depth	18360	FT
Format: TCOM	Vertical Scale: 5" per 100'	Graphics File Created: 11-Apr-2010 03:31	

# OP System Version: 17CO-154

ZAIT-DB	SPC-3859-ZAIT	HLDS	SPC-3961-OP17_NUCL
LDSC-B	SPC-3961-OP17_NUCL	CNT-K	17CO-154
GPIT-C	SRPC-3971-Q1_2010_OP17	EDTC-B	SKK-3882-EDTCB