

BAKER
HUGHES

HIGH DEFINITION INDUCTION LOGSM
GAMMA RAY LOG

NEB COPY

Baker Atlas

FILE NO:

COMPANY

PARAMOUNT RESOURCES LTD.

API NO:

WELL

PARAMOUNT ET AL LARD K-29A

PROVINCE

FIELD

FORT LARD

NORTHWEST TERRITORIES

Ver. 3.87

LOCATION:

LIC#: 1125

RIG: AKITA 58

OTHER SERVICES

UWI: 300K296030123503

GRID: 80-30-123-30

ZIL-CN-CR

XMAC-CR

HOIP/CBIL

DSL

PERMANENT DATUM

G.L.

ELEVATION

409.6 M

ELEVATIONS:

LOG MEASURED FROM

K.B.

6.8 M

ABOVE P.D.

KB

416.4 M

DRILL MEAS. FROM

KELLY BUSHING

DF

GL

409.6 M

DATE

16-OCT-2005

RUN

TRIP

2

1

SERVICE ORDER

203169

DEPTH DRILLER

3620 M

DEPTH LOGGER

3618.2 M

BOTTOM LOGGED INTERVAL

3612.9 M

TOP LOGGED INTERVAL

2480 M

CASING DRILLER

177.8 MM

CASING LOGGER

2568 M

BIT SIZE

156 MM

TYPE OF FLUID IN HOLE

GELCHEM

DENSITY

1070 G/CC

PH

10.5

SOURCE OF SAMPLE

FLOWLINE

RM AT MEAS. TEMP.

1.89 CHMM

RM AT MEAS. TEMP.

1.84 CHMM

RM AT MEAS. TEMP.

2.15 CHMM

SOURCE OF RMF

MEAS

RM AT BHT

0.47 CHMM

TIME SINCE CIRCULATION

29.25

MAX. RECORDED TEMP.

145.4 DEGC

EQUIP. NO.

ES544

RECORDED BY

D. BUSKER / T. FISHER

WITNESSED BY

K. ROBERTSON

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

REMARKS

RUN 2 TRIP 1 : LOG RECORDED VIA PIPE CONVEYED WITH THE NAUTILUS HITEMP HDIL/XMAC/DEN/CN/DSL IN A HIGH RESOLUTION MODE ON A DOWNLOG AND AN UPLOG. THE DOWNLOG WAS RECORDED AS A GRANDSLAM WITH AN XMAX IN THE MONOPOLE/DIPOLE SETTING AND THE UPLOG AS A GRANDSLAM AND XMAC IN A X-DIPOLE MODE. NO CALIPER COULD BE RUN WITH THE NAUTILUS DENSITY DUE TO HIGH ANGLE. SPIKES ON GR ARE CREATED NOW & THEN DUE TO MAKING A PIPE CONNECTION.

LOST COMMUNICATION WITH TOOL STRING AT 2850 M WHILE COMING UP WITH MAIN PASS DUE TO LINE GETTING KINKED. AFTER CORRECTING PROBLEM, MADE ANOTHER RUN IN THE HOLE TO LOG SECTION MISSED. BOTH LOGS WERE SPLICED TOGETHER FOR FINAL PRESENTATION. USED DOWN LOG AS REPEAT PASS. REMOVED 10 INCH CURVE TO IMPROVE LOG QUALITY

CIRCULATION STOPPED @ 1430 13-OCT-05.
MAX DEVIATION = 84.8 DEGS.
LOG WAS TIED INTO RUN 1 DATED 21-SEP-05.

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
2	1	SWVL	3944XC	094415	FREE
2	1	PWRSUB	4430XB	388992	FREE
2	1	TTRM	3981XA	10080042	FREE
2	1	COMR	3514XA	10051809	FREE
2	1	GR	1329XA	172708	DECENT
2	1	CN	2447XA	10040879	DECENT
2	1	DEN	2233EA	10077790	DECENT
2	1	DEN	2233MA	10129053	DECENT
2	1	XMAC	1887EA	118772	CENT
2	1	XMAC	1878MA	188383	CENT
2	1	XMAC	1878PB	10141932	CENT
2	1	XMAC	1888BA	154071	CENT
2	1	HDIL	1515EA	10084999	38MM S.O.
2	1	HDIL	1515MA	10084999	38MM S.O.

INSTRUMENT CONFIGURATION

Source File: /dat1a/pass/paramount_lard/t_hdlil-tdg

PIPE CONVEYANCE

Series : CABLPCL
Mnemonic : PCL
Diameter : 5.00"
Weight : 45.5 kg
Length : 231.8 cm

DOWNHOLE POWER ADAPTER

Series : 4430XB
Mnemonic : DHPA
Diameter : 3.82"
Weight : 36.4 kg
Length : 180.5 cm

SWIVEL

Series : 3944XD
Mnemonic : SWVL
Diameter : 3.50"
Weight : 29.5 kg
Length : 106.7 cm

HP TTRM SUB

Series : 3981XA
Mnemonic : TTRM
Diameter : 3.83"
Weight : 36.4 kg
Length : 118.8 cm
Measure Point: 42.2 cm: TEMP MP
Measure Point: 34.5 cm: RM MP

HT/HP DIGITAL SPECTRALOG

Series : 3514XA
Mnemonic : WTS
Diameter : 4.17"
Weight : 128.5 kg
Length : 278.9 cm

47.73 m

TEMP MP : 42.00 m
RM MP : 41.92 m

Weight : 128.8 kg
Length : 281.9 cm
Measure Point: 79.2 cm: GR MP

GR MP 36.78 m

NAUTILUS COMPENSATED NEUTRON

Series : 2447XA
Mnemonic : CN
Diameter : 4.17"
Weight : 118.9 kg
Length : 285.2 cm
Source Type : N/A
Strength : N/A
Measure Point: 80.3 cm: LSN MP
Measure Point: 88.1 cm: SSN MP

LSN MP 33.94 m
SSN MP 33.82 m

TOOL TURNER

Series : N/A
Mnemonic : N/A
Diameter : 3.83"
Weight : 11.4 kg
Length : 83.5 cm

NAUTILUS SLICK DENSITY ELECTRONICS

Series : 2233EA
Mnemonic : HTD
Diameter : 4.18"
Weight : 97.7 kg
Length : 281.7 cm

NAUTILUS SLICK DENSITY MANDREL

Series : 2233MA
Mnemonic : HTD
Diameter : 4.18"
Weight : 97.7 kg
Length : 287.0 cm
Source Type : N/A
Strength : N/A
Measure Point: 109.5 cm: LSD MP
Measure Point: 96.5 cm: SSD MP

LSD MP 28.11 m
SSD MP 27.98 m

HT/HP DIGITAL ORIENTATION

Series : 4401XB
Mnemonic : ORIT
Diameter : 3.88"
Weight : 140.9 kg
Length : 388.6 cm
Measure Point: 6.6 cm: ORIENT MP

ORIENT MP 23.19 m

HT/HP ARRAY ACOUSTILOG ELECTRONICS

Series : 1867EA
Mnemonic : XMAC
Diameter : 3.88"
Weight : 116.4 kg
Length : 297.2 cm

HT/HP CROSS MULTIPOLE ARRAY ACOUSTILOG

Series : 1878MA
Mnemonic : XMAC
Diameter : 3.88"
Weight : 180.2 kg
Length : 431.8 cm
Measure Point: 187.8 cm: R8
Measure Point: 182.4 cm: R7
Measure Point: 137.2 cm: R6
Measure Point: 121.9 cm: R5
Measure Point: 106.7 cm: R4
Measure Point: 91.4 cm: R3
Measure Point: 76.2 cm: R2
Measure Point: 61.0 cm: R1

R8 17.51 m
R7 17.36 m
R6 17.21 m
R5 17.06 m
R4 16.91 m
R3 16.75 m
R2 16.60 m
R1 16.45 m

SHEAR WAVE ACOUSTILOG

Series : 1878PB
Mnemonic : XMAC
Diameter : 3.83"
Weight : 81.4 kg
Length : 152.4 cm

HP/HT MULTI-POLE ARRAY ACOUSTIC

Series : 1868BA
Mnemonic : MAC
Diameter : 3.82"
Weight : 79.5 kg
Length : 210.8 cm
Measure Point: 185.1 cm: MONOPOLE T2 MP
Measure Point: 142.2 cm: DIPOLE T4 MP
Measure Point: 111.8 cm: DIPOLE T3 MP
Measure Point: 88.9 cm: MONOPOLE T1 MP

MONOPOLE T2 MP 13.86 m
DIPOLE T4 MP 13.83 m
DIPOLE T3 MP 13.32 m
MONOPOLE T1 MP 13.10 m

HT/HP MULTI-POLE ARRAY ACOUSTIC

Series : 1888FA
Mnemonic : MAC
Diameter : 3.88"
Weight : 70.5 kg
Length : 190.5 cm

HP/HT HIGH DEFINITION INDUCTION TOOL

Series : 1515XA
Mnemonic : HDIL
Diameter : 4.17"
Weight : 200.5 kg
Length : 1030.2 cm
Measure Point: 557.3 cm: RXCB MP
Measure Point: 310.9 cm: XMTR MP

RXCB MP 5.57 m

XMTR MP 3.11 m

BULL PLUG 3 1/8

TOTAL LENGTH: 47.80 m
TOTAL WEIGHT: 1585.0 kg
MAX DIAMETER: 0'5.00"

0.00 m

MAIN UP LOG - UPPER PRESENTATION

eXpress Unknown eXpress 3.1 last updated 28Sep2005 17:22 Sep 28, 2005 Cplot 8.1
Updates: 1 Perplt /main/61 Pdf_Cpp /main/16 Fileview 4.34
Fri Oct 21 01:59:22 2005

CURVE DESCRIPTION REPORT

CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:CHT	CHT	Oct 16 11:06:41 2005	CABLE HEAD TENSION
F1:DEPTH	MATCH_2_RES_DATA	Oct 16 11:06:41 2005	SYSTEM DEPTH
F1:GR	GR	Oct 16 11:06:42 2005	GAMMA RAY
F1:M2CCX	M2CX	Oct 14 19:37:00 2005	HDIL 2' VERT. RESOLUTION COMPRESSED COND.-120" INVESTIGATION
F1:M2R2	M2R2L	Oct 16 11:06:42 2005	VERT RESOLUTION MATCHED (2 FT) RES - DOI 20 INCH
F1:M2RX	M2RXL	Oct 16 11:06:42 2005	VERT RESOLUTION MATCHED (2 FT) RES - DOI 120 INCH
F1:MMRK	MMRK	Oct 16 11:06:42 2005	MINUTE MARK
F1:TEN	TEN	Oct 16 11:06:44 2005	DIFFERENTIAL TENSION

CURVE MEASURE POINT OFFSET

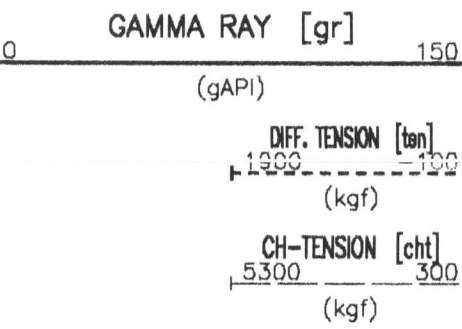
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
CHT	0.00	M2CCX	3.28	M2RX	3.28		
GR	36.77	M2R2	3.28	TEN	0.00		

Project : /data/ddc/203169
User : jlanwel
Presentation : calsunrv2:/data/ddc/203169/hdil_upper.pdf [1:600 Scale]
Plot Interval : 2451.43 - 3622 Meters

Data File 1 : F1 : calsunrv2:/data/ddc/203169/splice_up.xtf
Created On : Oct 14 19:37:00 2005
Company : PARAMOUNT RESOURCES LTD
Well : PARAMOUNT ET AL LIARD K-29A
Field : FORT LIARD
File Interval : 2451.35 - 3618.89 Meters
Oct : 187ba

GR BACKUP

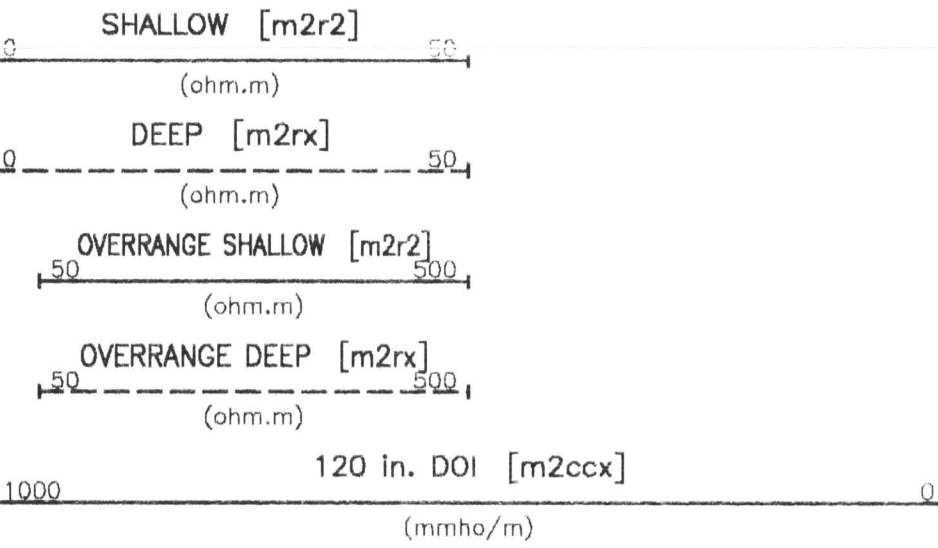
TOOL STICKING



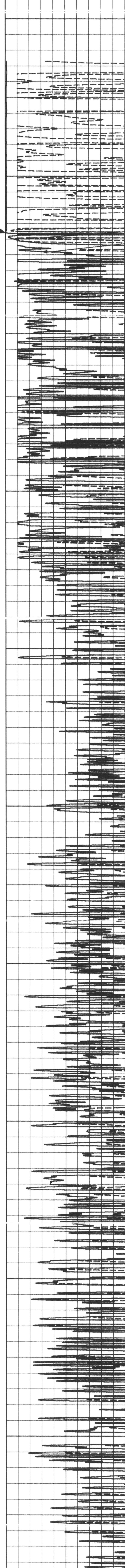
MINUTE MARK

METERS

2FT. Matched Resolution Resistivity



2500 2550 2600 2650 2700 2750 2800 2850 2900 2950



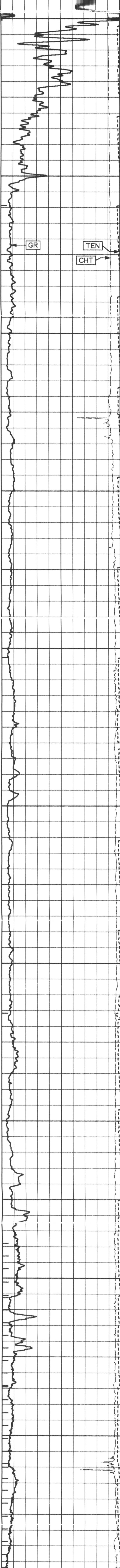
M2R2
M2R2

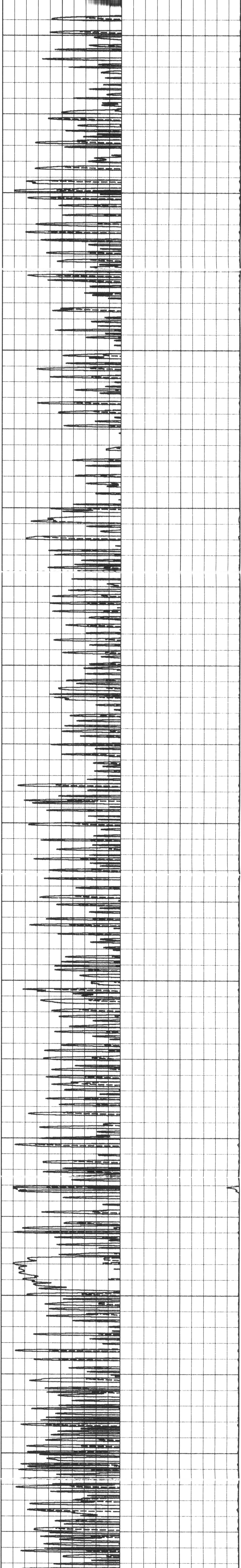
M2CCX

CSG

TEN
CHT

GR





3000

3050

3100

3150

3200

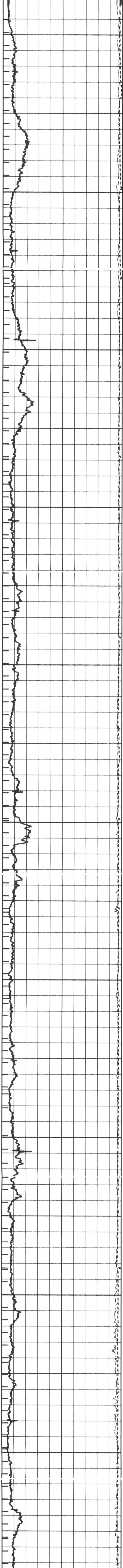
3250

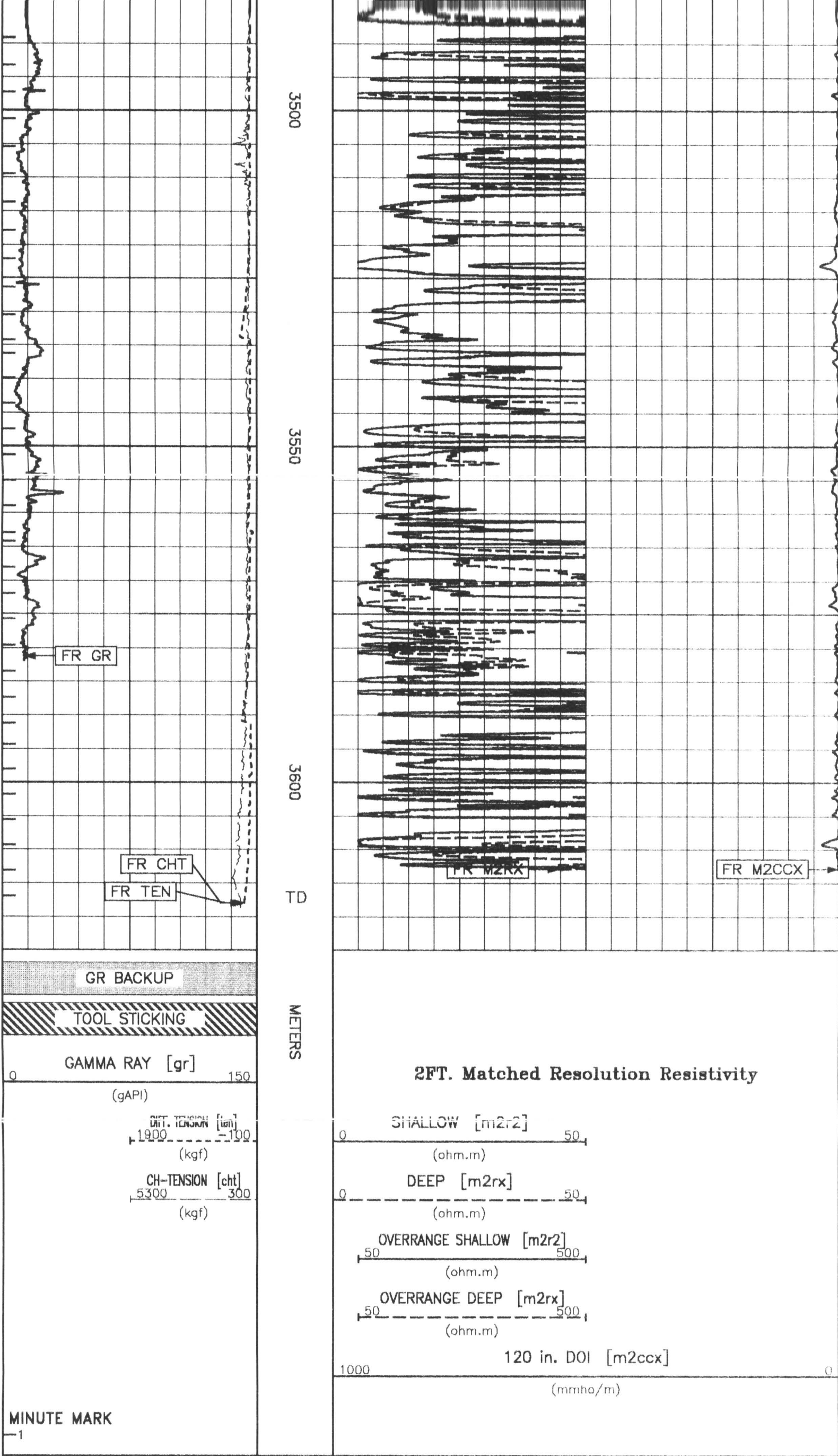
3300

3350

3400

3450





MAIN UP LOG

eXpress Unknown eXpress 3.1 last updated 28Sep2005 17:22 Sep 28, 2005 Cplot 8.1 Fri Oct 21 01:59:38 2005
Updates: 1 Perplot /main/61 Pdf_Cpp /main/16 Fileview 4.34

CURVE DESCRIPTION REPORT

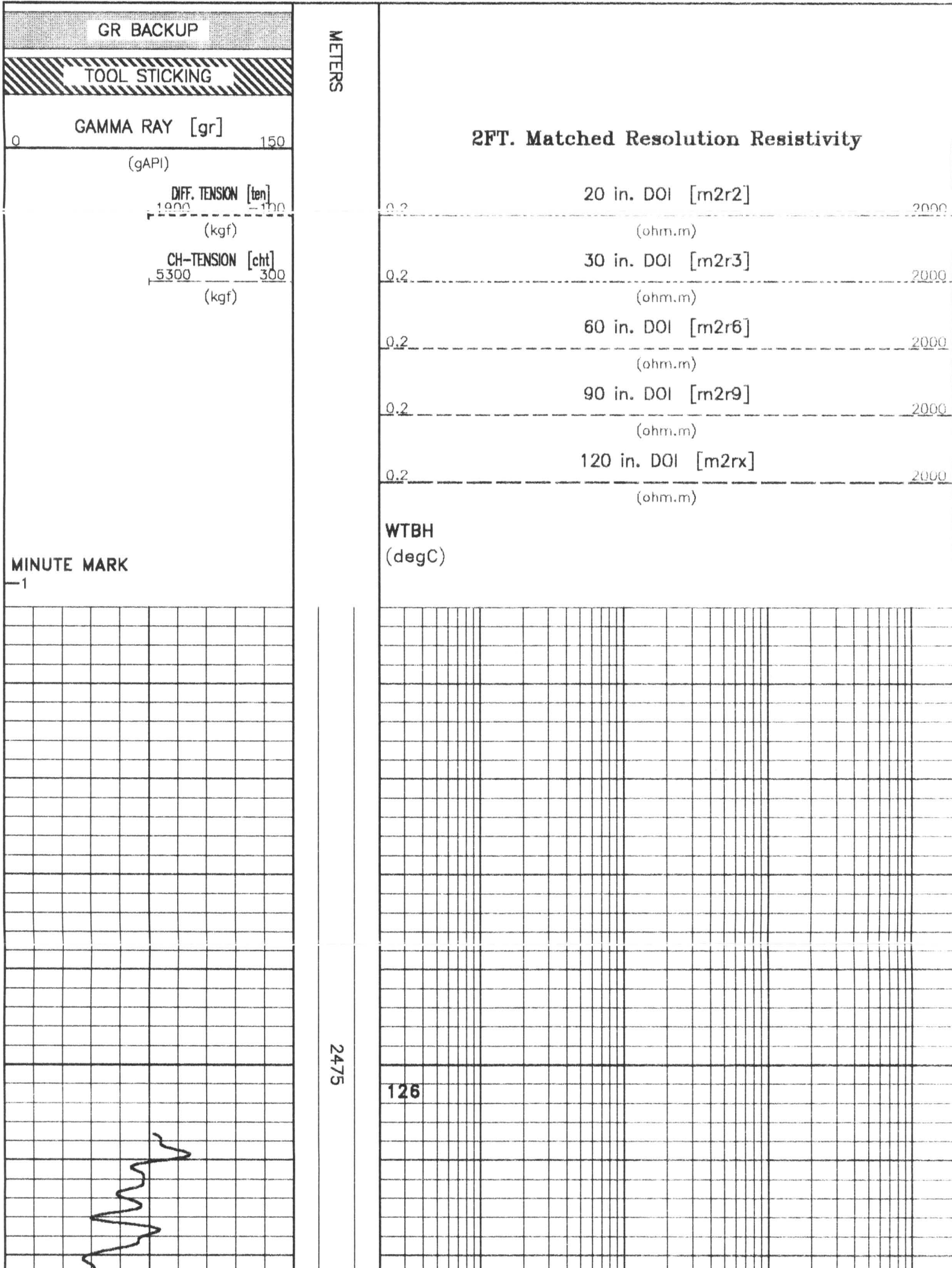
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION
F1:CHT	CHT	Oct 16 11:08:41 2005	CABLE HEAD TENSION
F1:DEPTH	MATCH_2_RES_DATA	Oct 16 11:08:41 2005	SYSTEM DEPTH
F1:GR	GR	Oct 16 11:08:42 2005	GAMMA RAY
F1:M2R2	M2R2	Oct 16 11:08:42 2005	VERT RESOLUTION MATCHED (2 FT) RES - DOI 20 INCH
F1:M2R3	M2R3	Oct 16 11:08:42 2005	VERT RESOLUTION MATCHED (2 FT) RES - DOI 30 INCH
F1:M2R6	M2R6	Oct 16 11:08:42 2005	VERT RESOLUTION MATCHED (2 FT) RES - DOI 60 INCH
F1:M2R9	M2R9	Oct 16 11:08:42 2005	VERT RESOLUTION MATCHED (2 FT) RES - DOI 90 INCH
F1:M2RX	M2RX	Oct 16 11:08:42 2005	VERT RESOLUTION MATCHED (2 FT) RES - DOI 120 INCH
F1:MMRK	MMRK	Oct 16 11:08:42 2005	MINUTE MARK
F1:TEN	TEN	Oct 16 11:08:44 2005	DIFFERENTIAL TENSION
F1:WTBH		Oct 16 11:08:53 2005	TEMPERATURE OF THE BOREHOLE

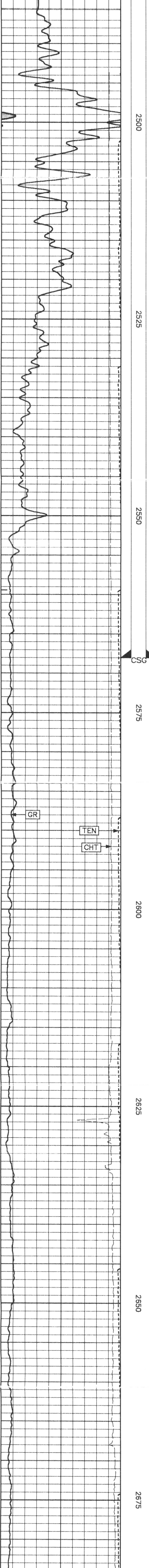
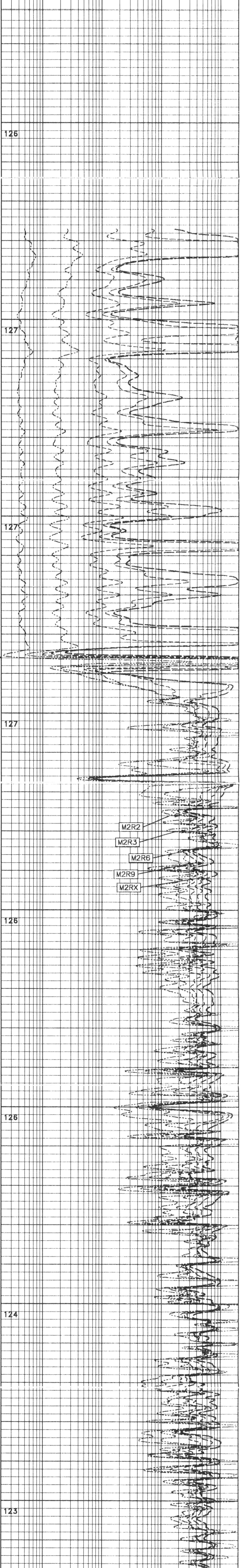
CURVE MEASURE POINT OFFSET

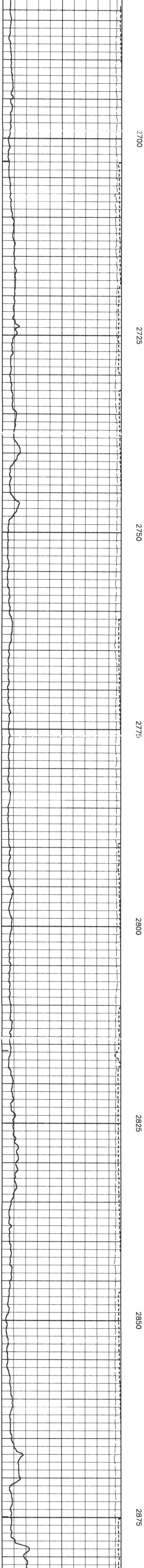
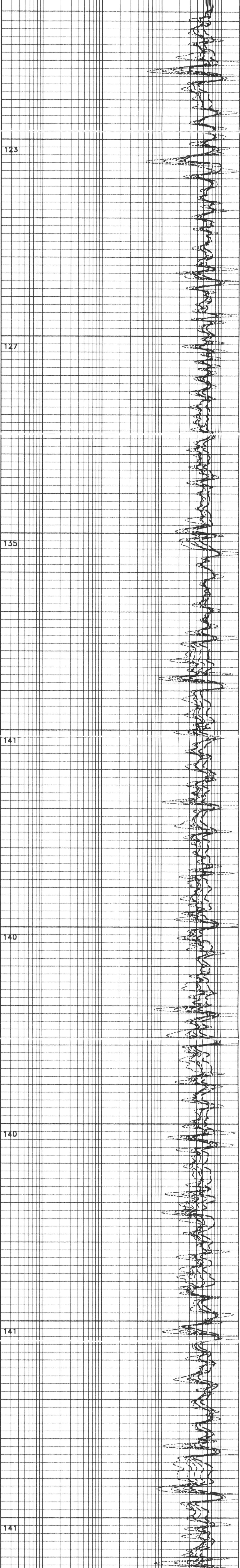
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
CHT	0.00	M2R2	3.28	M2R6	3.28	M2RX	3.28
GR	36.77	M2R3	3.28	M2R9	3.28	TEN	0.00

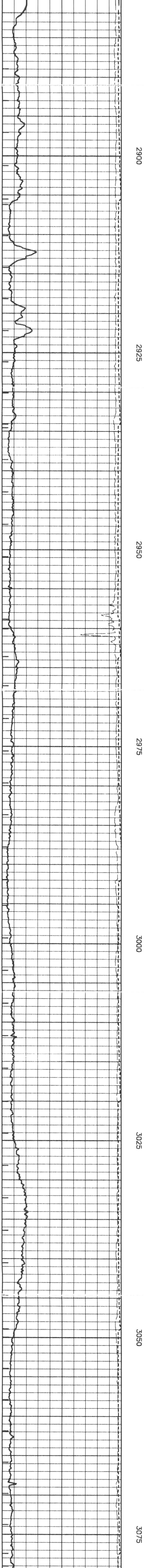
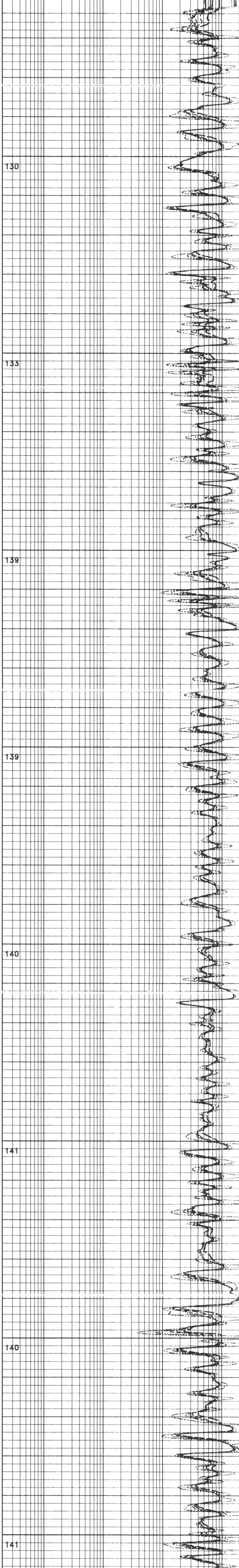
Project : /data/ddc/203169
User : jlanwel
Presentation : calsunrv2:/data/ddc/203169/hdl_main_up.pdf [1:240 Scale]
Plot Interval : 2451.43 - 3620 Meters

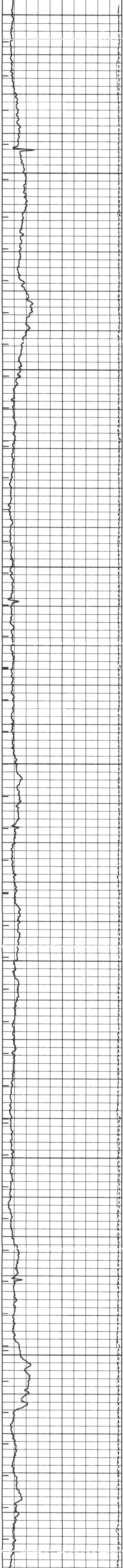
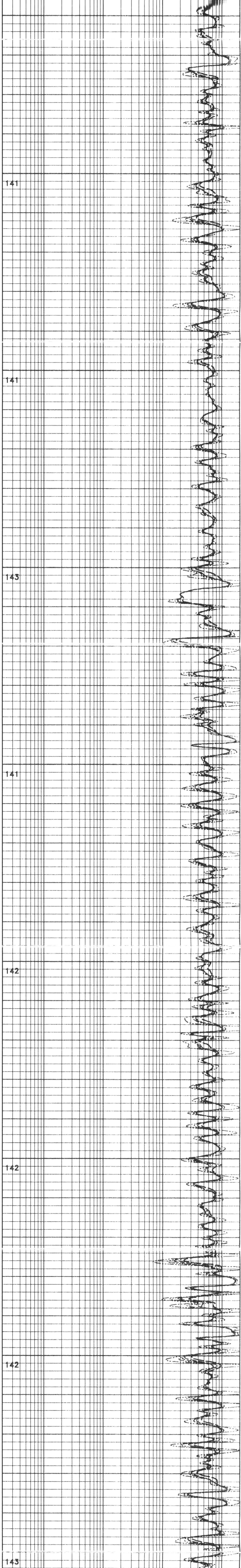
Data File 1 : F1 : calsunrv2:/data/ddc/203169/splice_up.tif
Created On : Oct 14 19:37:00 2005
Company : PARAMOUNT RESOURCES LTD
Well : PARAMOUNT ET AL LIARD K-29A
Field : FORT LIARD
File Interval : 2451.35 - 3618.89 Meters
Oct : 187ba

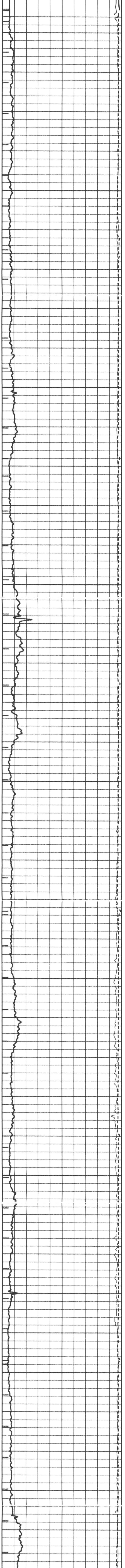
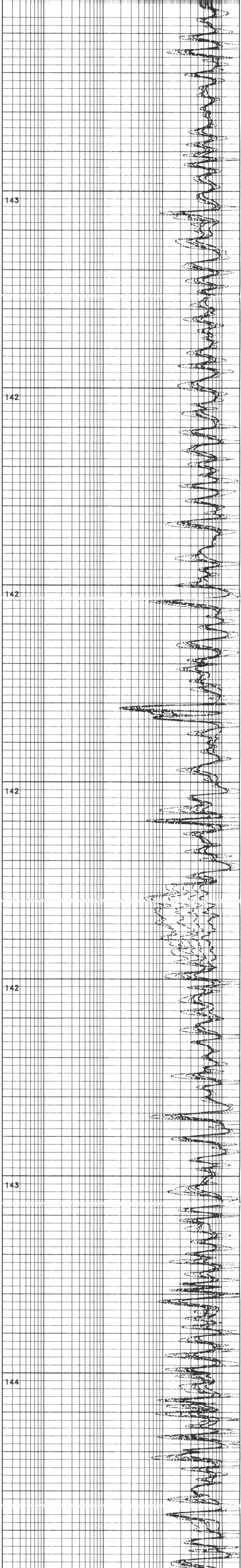


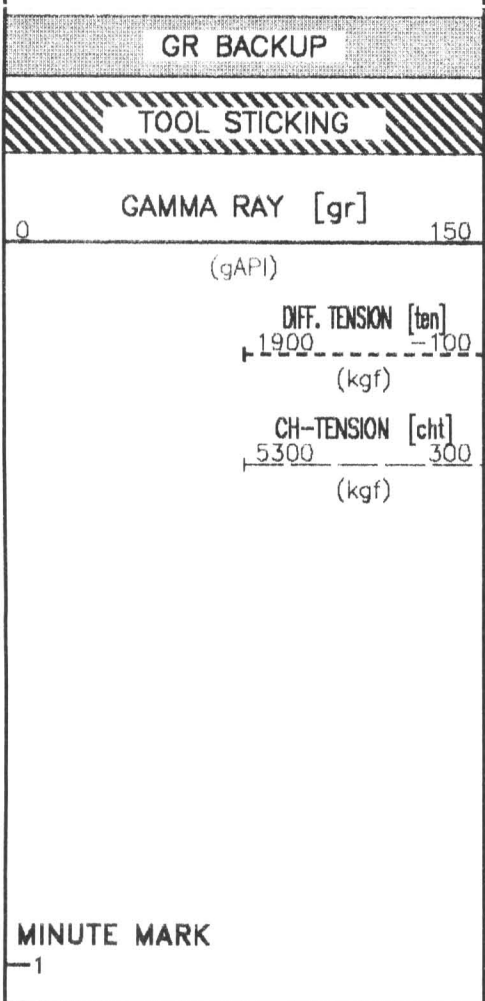
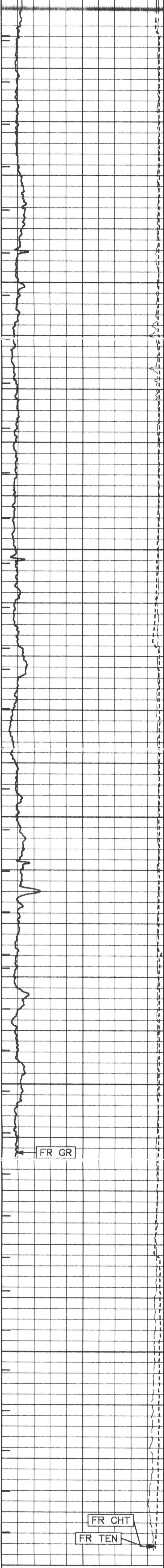




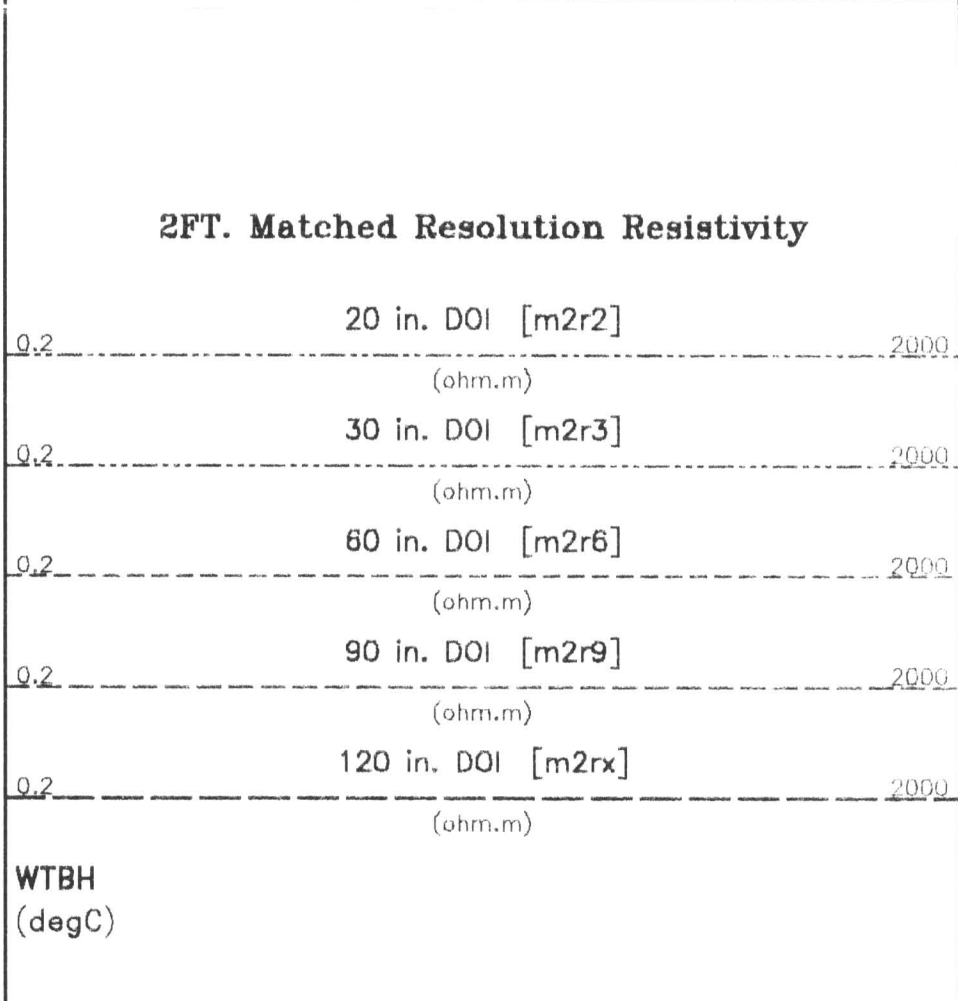
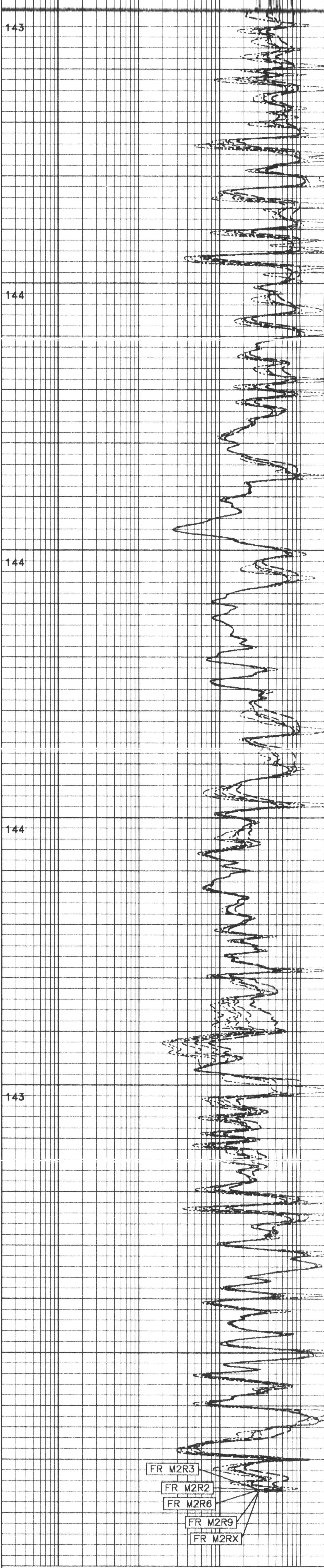








75
3500
3525
3550
3575
3600
TD
METERS



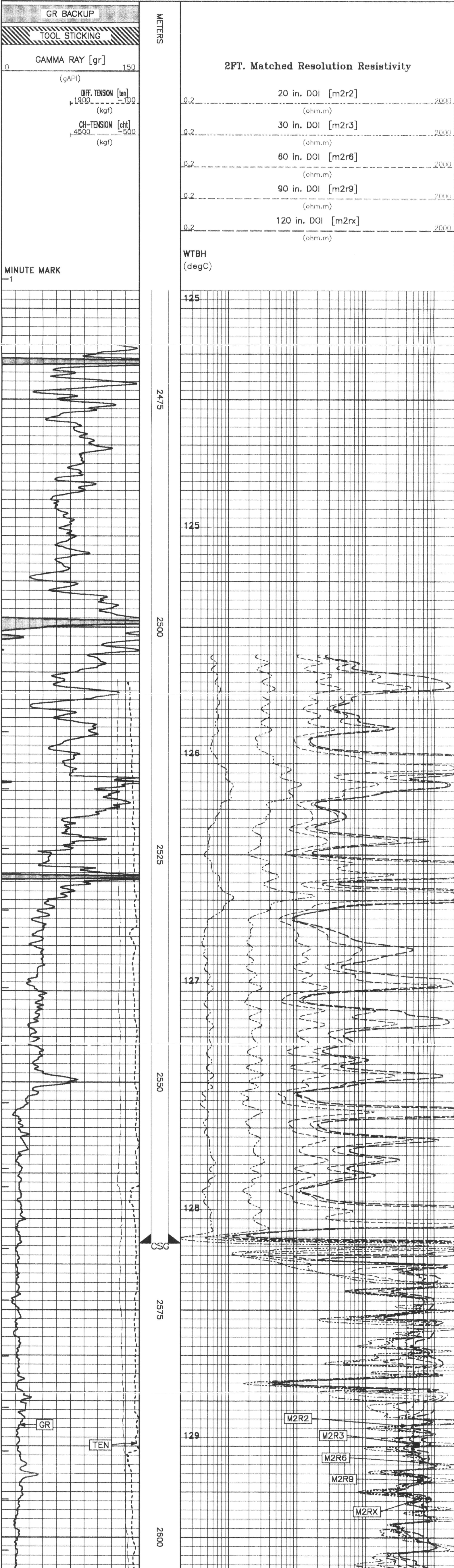
REPEAT DOWN LOG

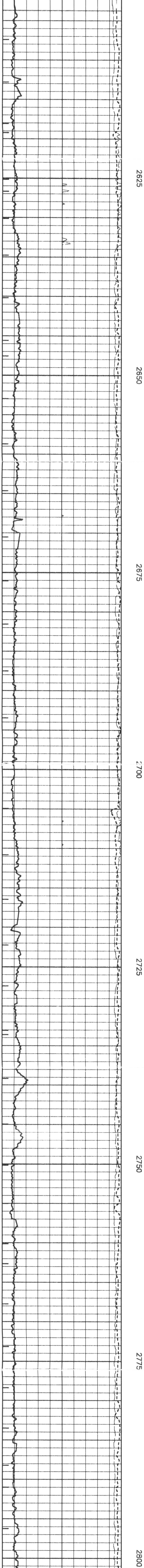
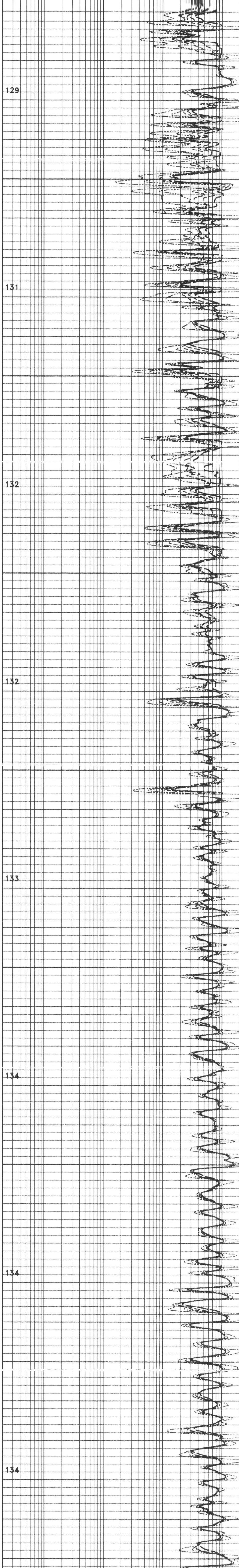
CURVE DESCRIPTION REPORT				
CURVE NAME	CURVE ALIAS	CREATION DATE	CURVE DESCRIPTION	
F1:CHT	CHT	Oct 14 13:31:21 2005	CABLE HEAD TENSION	
F1:DEPTH	MATCH_2_RES_DATA	Oct 14 13:31:21 2005	SYSTEM DEPTH	
F1:GR	GR	Oct 15 02:30:58 2005	GAMMA RAY	
F1:M2R2	M2R2	Oct 14 13:31:21 2005	2FT. MATCHED RESOLUTION RESISTIVITY (0.5 FT) RES. DOI 20 INCH	

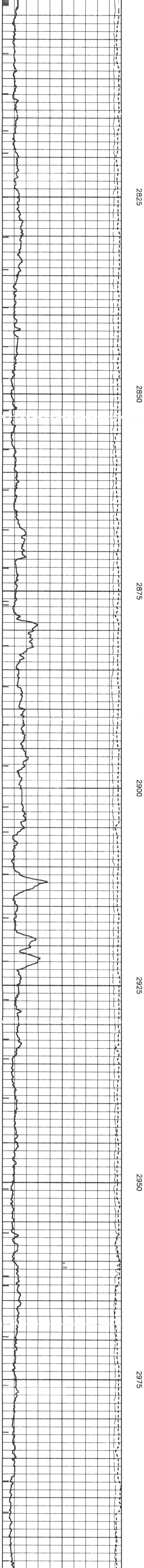
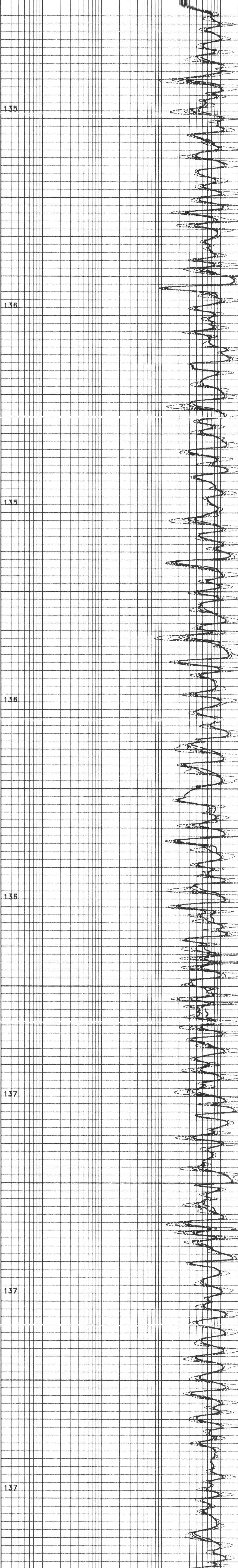
F1:M2R2	M2R2	Oct 14 13:31:21	2005	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 20 INCH
F1:M2R3	M2R3	Oct 14 13:31:21	2005	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 30 INCH
F1:M2R6	M2R6	Oct 14 13:31:21	2005	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 60 INCH
F1:M2R9	M2R9	Oct 14 13:31:21	2005	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 90 INCH
F1:M2RX	M2RX	Oct 14 13:31:21	2005	VERT RESOLUTION MATCHED (2 FT)	RES - DOI 120 INCH
F1:MMRK	MMRK	Oct 14 13:31:21	2005	MINUTE MARK	
F1:TEN	TEN	Oct 14 13:31:21	2005	DIFFERENTIAL TENSION	
F1:WTBH		Oct 14 13:31:21	2005	TEMPERATURE OF THE BOREHOLE	

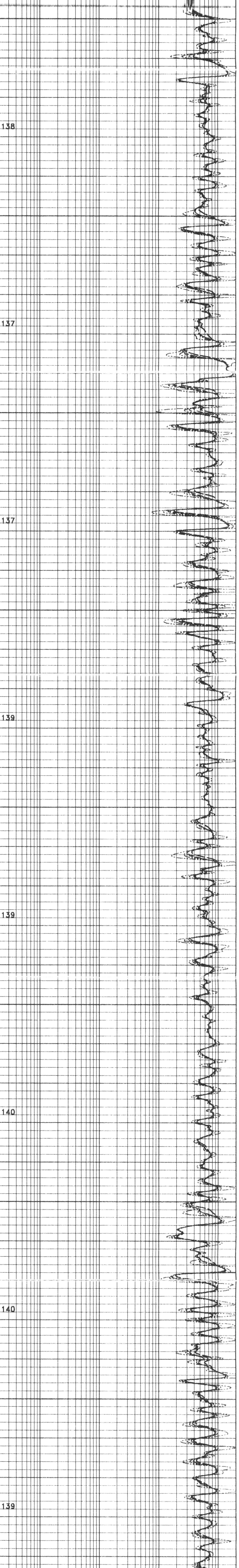
CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)	CURVE	OFFSET (m)
CHT	0.00	M2R2	3.28	M2R6	3.28	M2RX	3.28
GR	36.77	M2R3	3.28	M2R9	3.28	TEN	0.00

Project	:	/data/ddc/203169
User	:	[ianwei]
Presentation	:	calsunrv2:/data/ddc/203169/hdl_main_down.pdf [1:240 Scale]
Plot Interval	:	2483.65 - 3626.89 Meters
Data File 1	:	F1 : calsunrv2:/data/ddc/203169/187ba01.xtf
Created On	:	Oct 14 13:31:21 2005
Company	:	PARAMOUNT RESOURCES LTD
Well	:	PARAMOUNT ET AL LIARD K-29A
Field	:	FORT LIARD
File Interval	:	2483.7 - 3626.97 Meters
Oct	:	187ba









3000

3025

3050

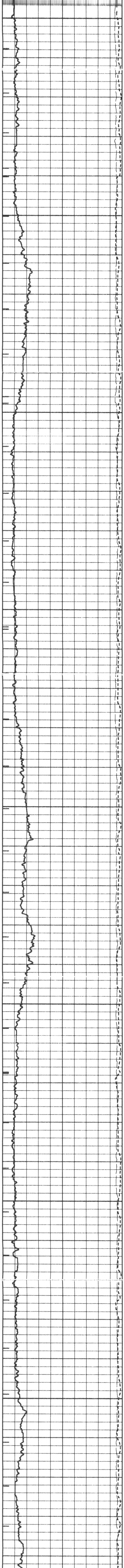
3075

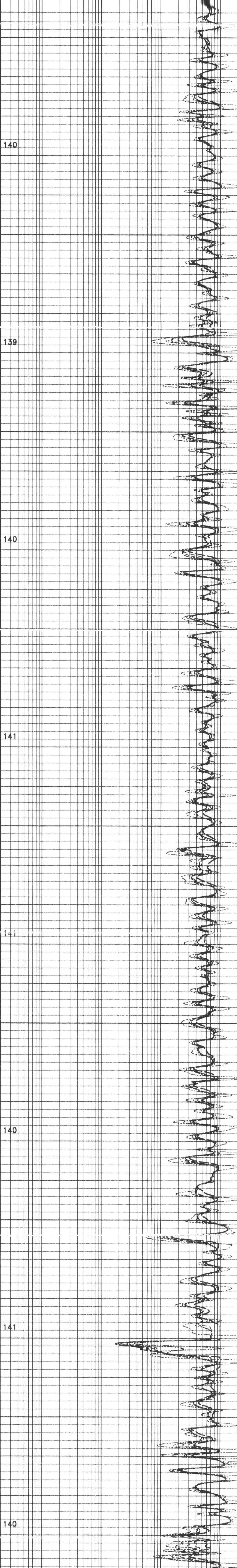
3100

3125

3150

3175





3200

3225

3250

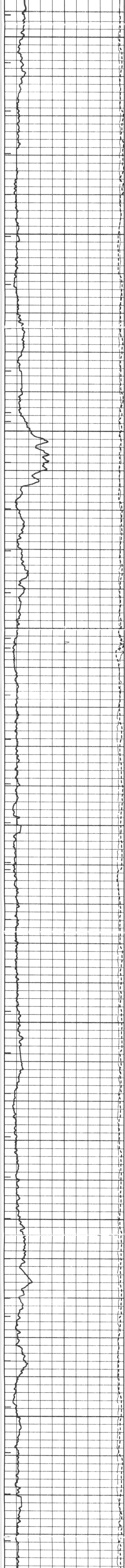
3275

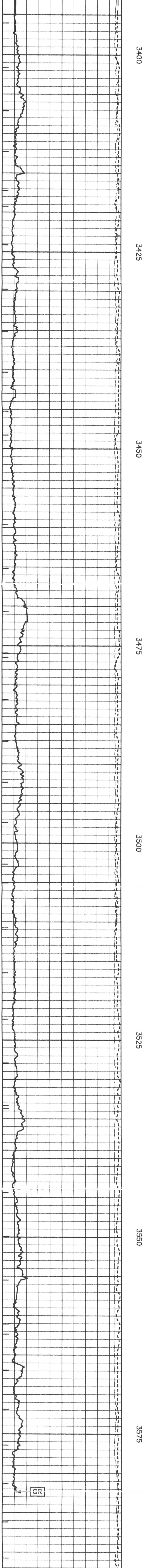
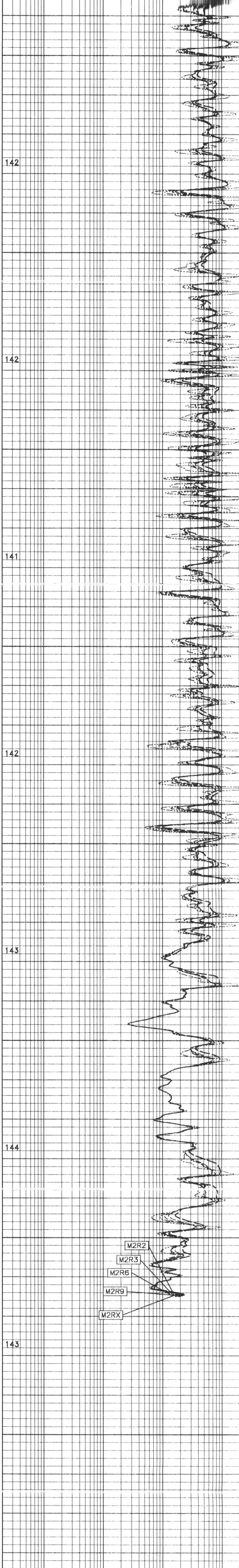
3300

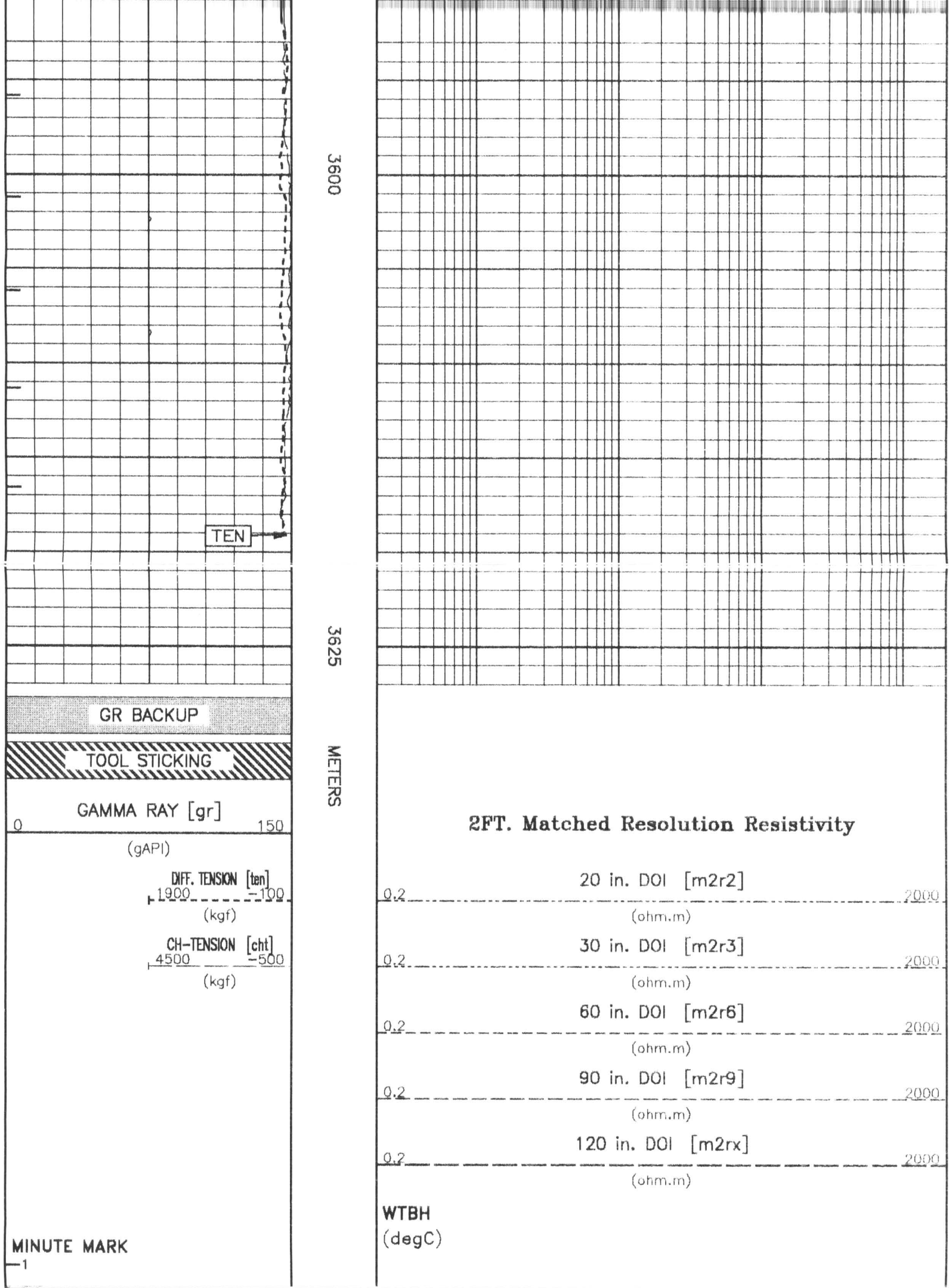
3325

3350

3375







 Baker Atlas	COMPANY WELL FIELD PROVINCE		PARAMOUNT RESOURCES LTD. PARAMOUNT ET AL LIARD K-29A FORT LIARD NORTHWEST TERRITORIES	FILE NO: API NO:
	LOCATION: LIC#: 1125 RIG: AKITA 58 GRID: 60-30-123-30		ELEVATIONS: KB 416.4 M DF GL 409.6 M DATE 16-OCT-2005	UWI: 300K296030123303