



Weatherford[®]

**ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG**

COMPANY

WELL

FIELD

PROVINCE/COUNTY

COUNTRY/STATE

LOCATION

MCCOY PETROLEUM CORPORATION

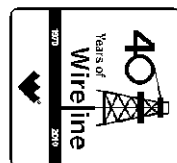
FITZGERALD 'A' #3-30

LETTE SE

HASKELL

U.S.A. / KANSAS

1625' FNL & 1270' FEL



SEC

API Number

Permit Number

Permanent Datum G.L., Elevation 2845 feet

Log Measured From KB

Drilling Measured From K.B.

TWP

30S

RGE

31W

Other Services

MPD/MDN

MML

Date

Run Number

Depth Driller

Depth Logger

First Reading

Last Reading

Casing Driller

Casing Logger

Bit Size

Hole Fluid Type

Density / Viscosity

PH / Fluid Loss

Sample Source

Rm @ Measured Temp

Rmf @ Measured Temp

Rmc @ Measured Temp

Source Rmf / Rmc

Rm @ BHT

Time Since Circulation

Max Recorded Temp

Equipment Name

Equipment / Base

Recorded By

Witnessed By

S.O.# / JOB#

14-JUN-2012

ONE

4810.00

4804.00

4801.00

1820.00

1819.00

1820.00

7.875

FLOWLINE

9.00

11.00

FLOWLINE

0.84 @ 95.0

0.67 @ 95.0

1.01 @ 95.0

CALC

0.69 @ 116.0

4 HOURS

116.00

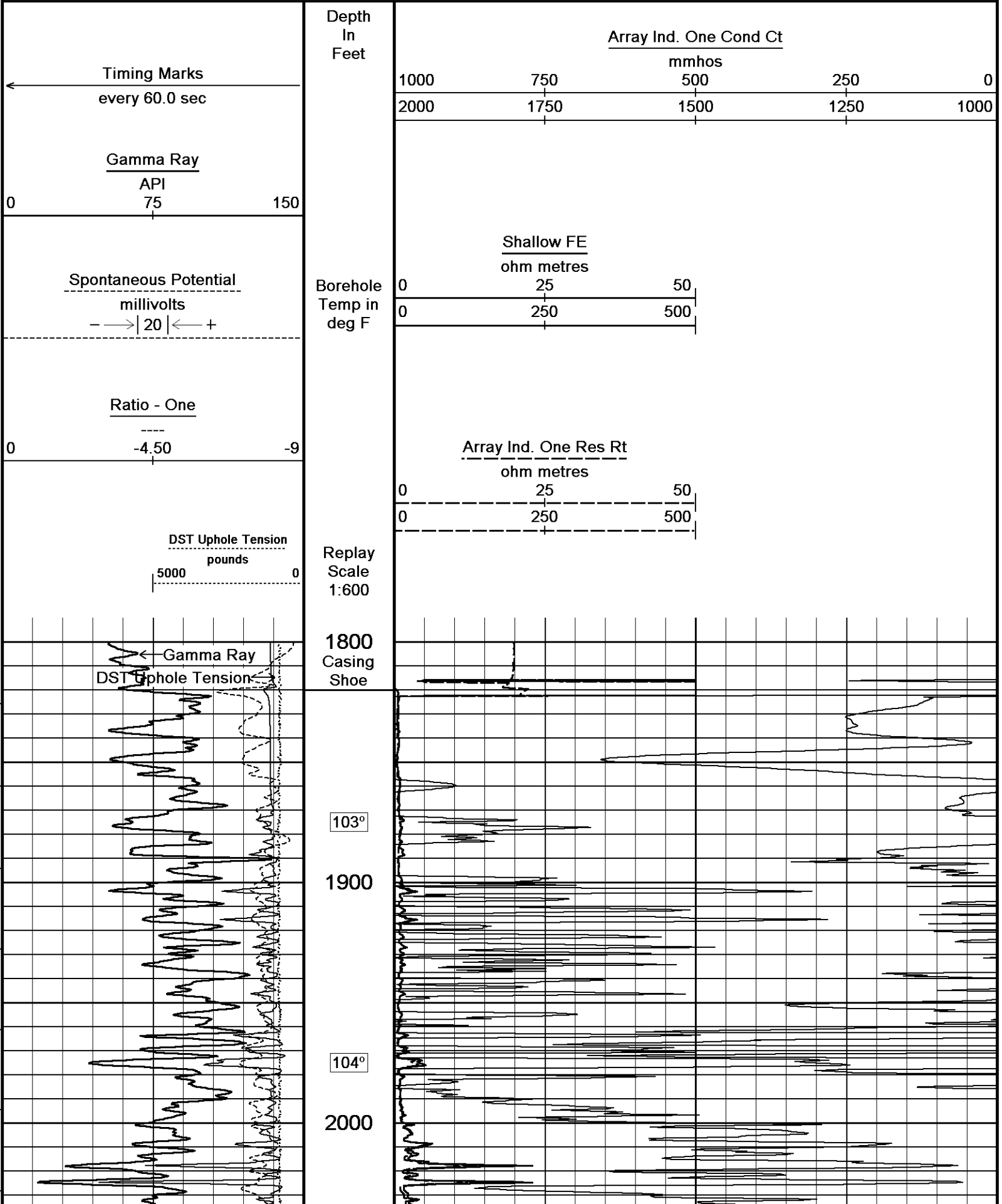
COMPACT

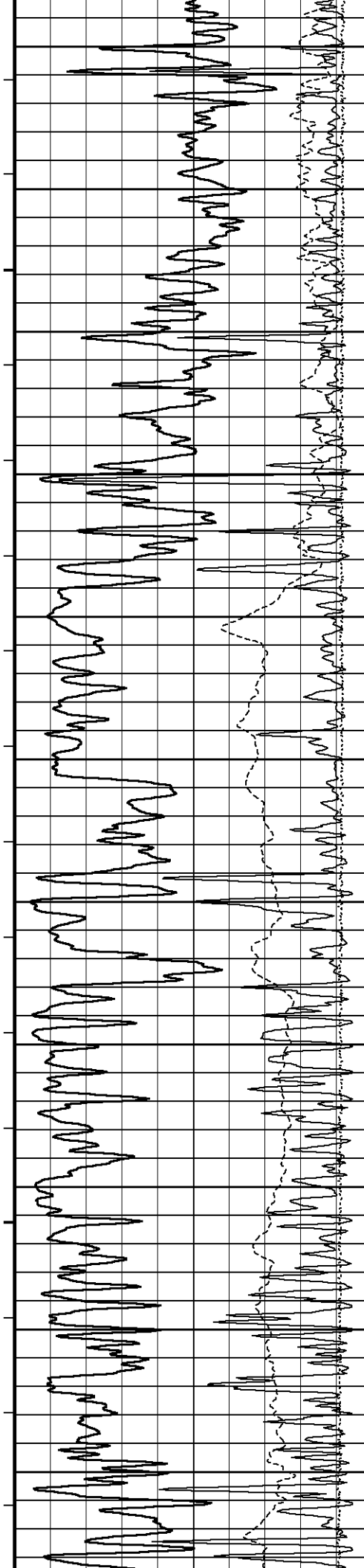
13096

L. SCOTT

JERRY SMITH

3534495





104°

2100

105°

2200

105°

2300

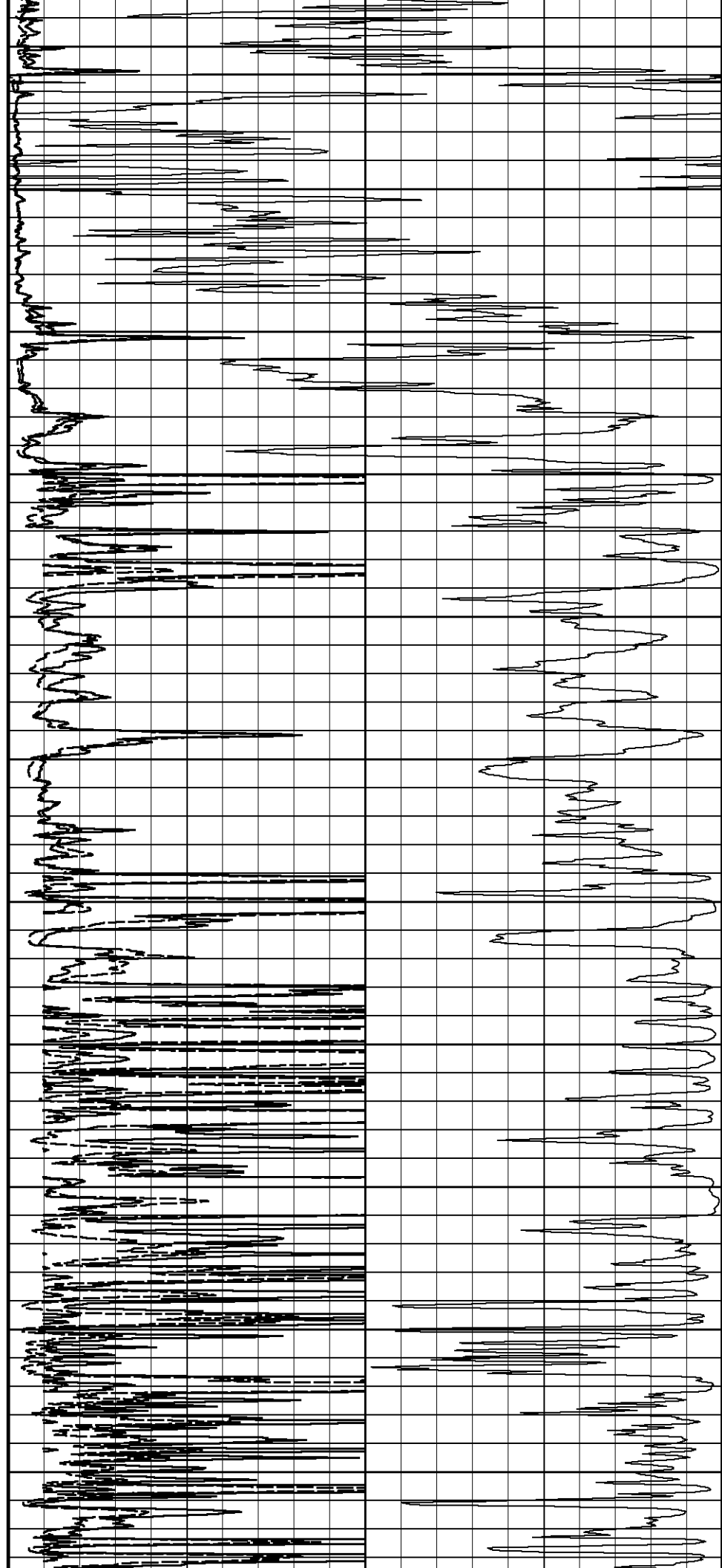
104°

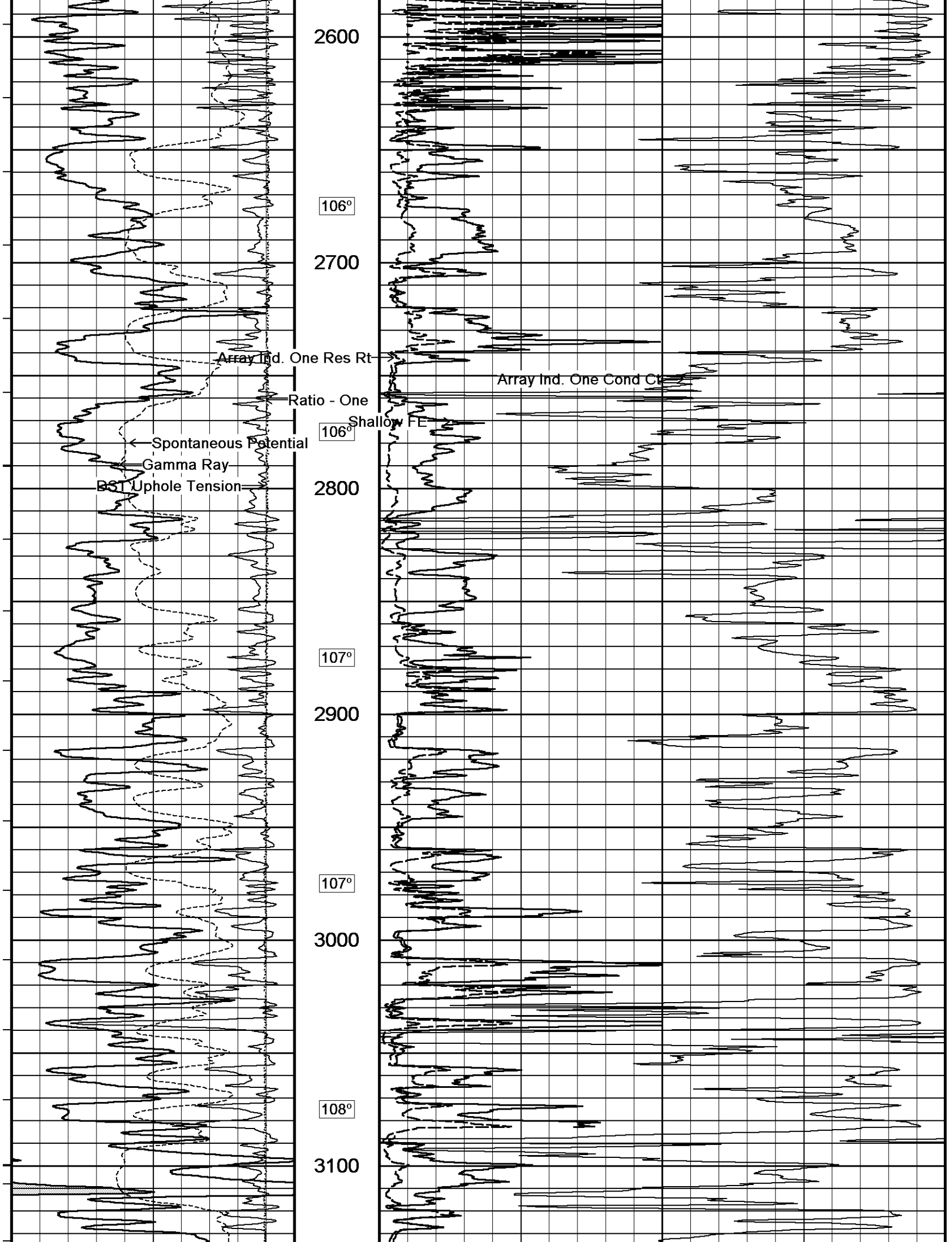
2400

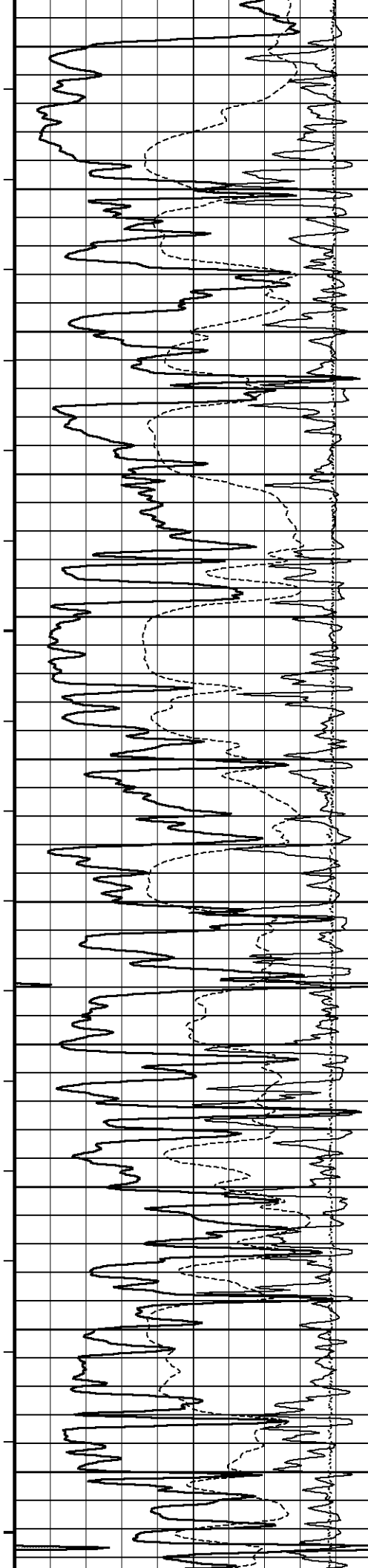
105°

2500

106°







108°

3200

109°

3300

109°

3400

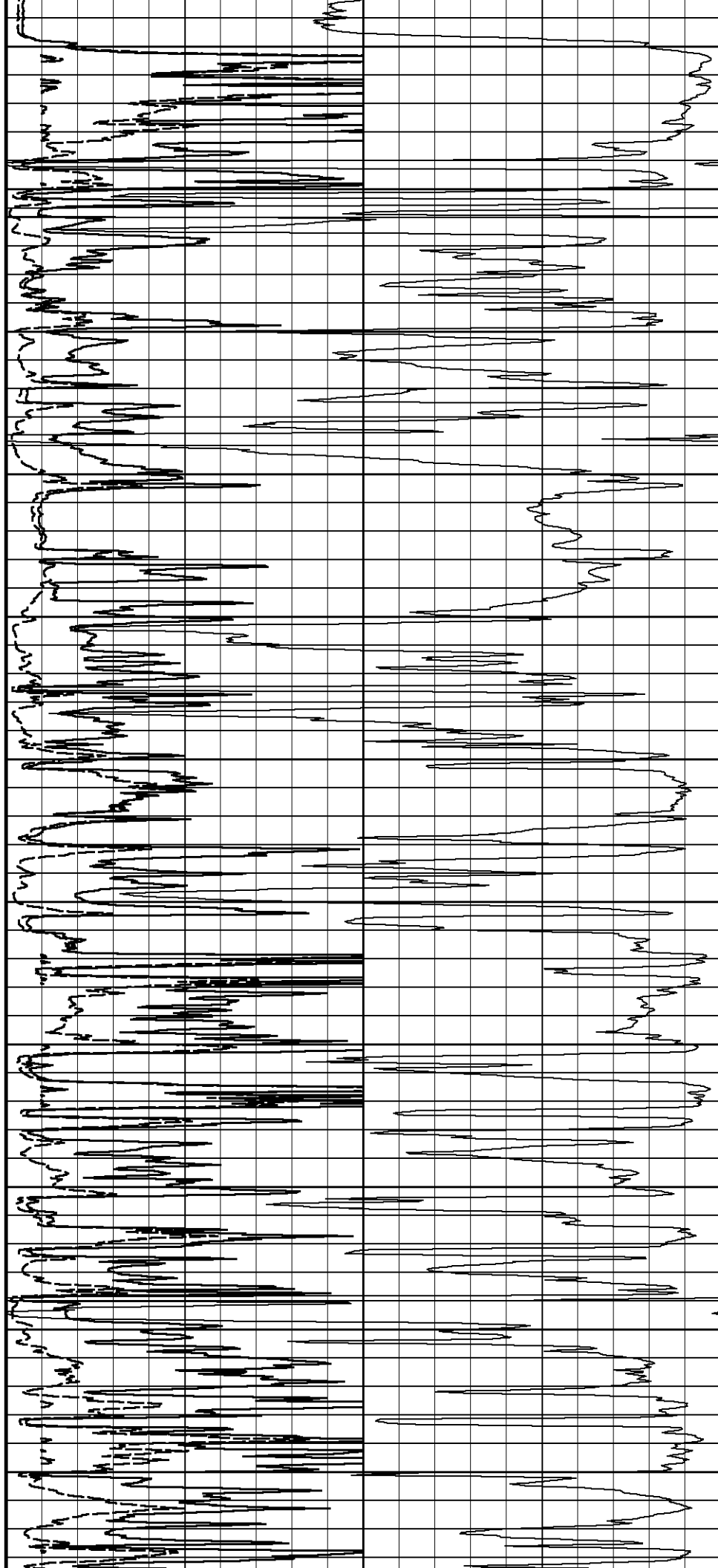
110°

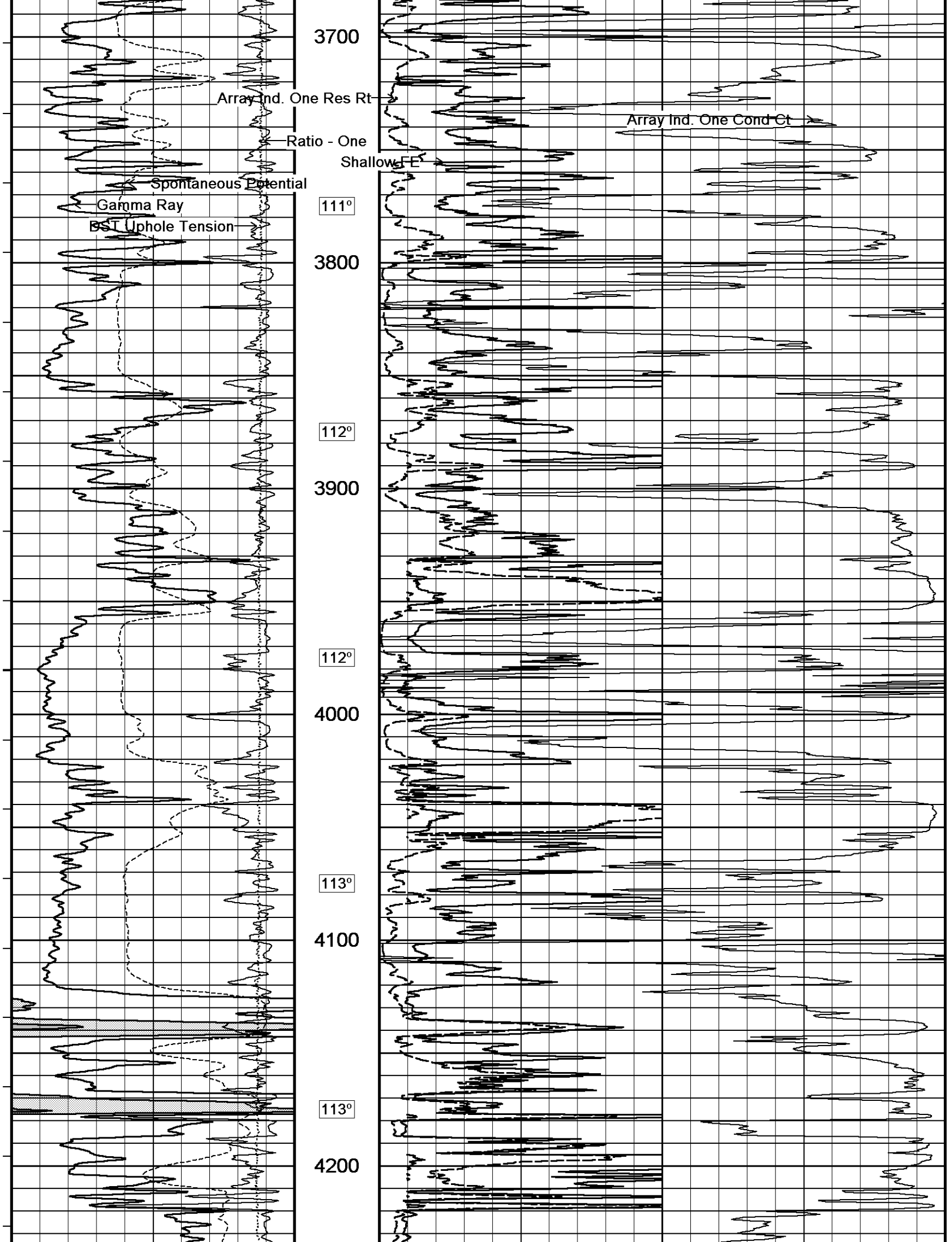
3500

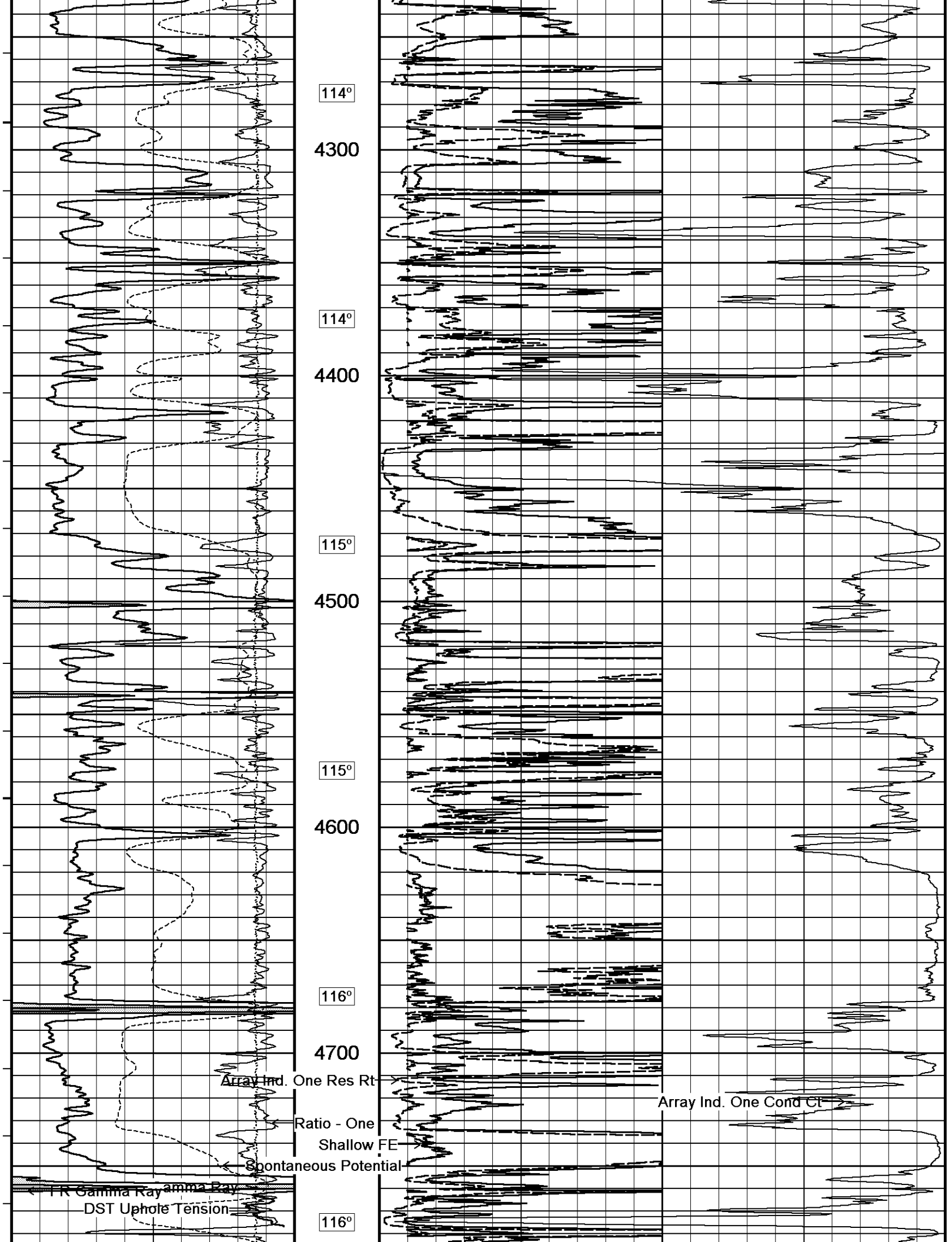
110°

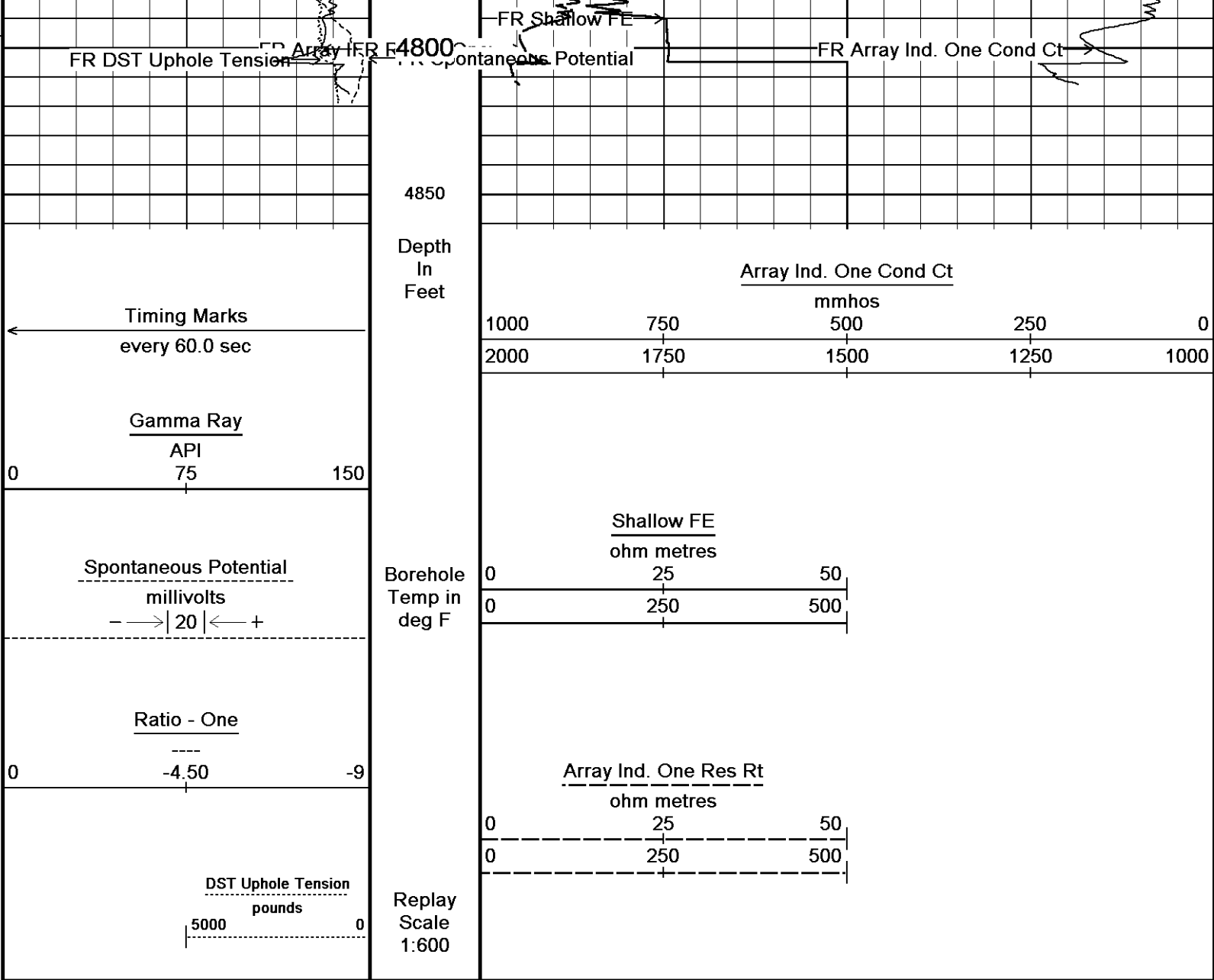
3600

111°







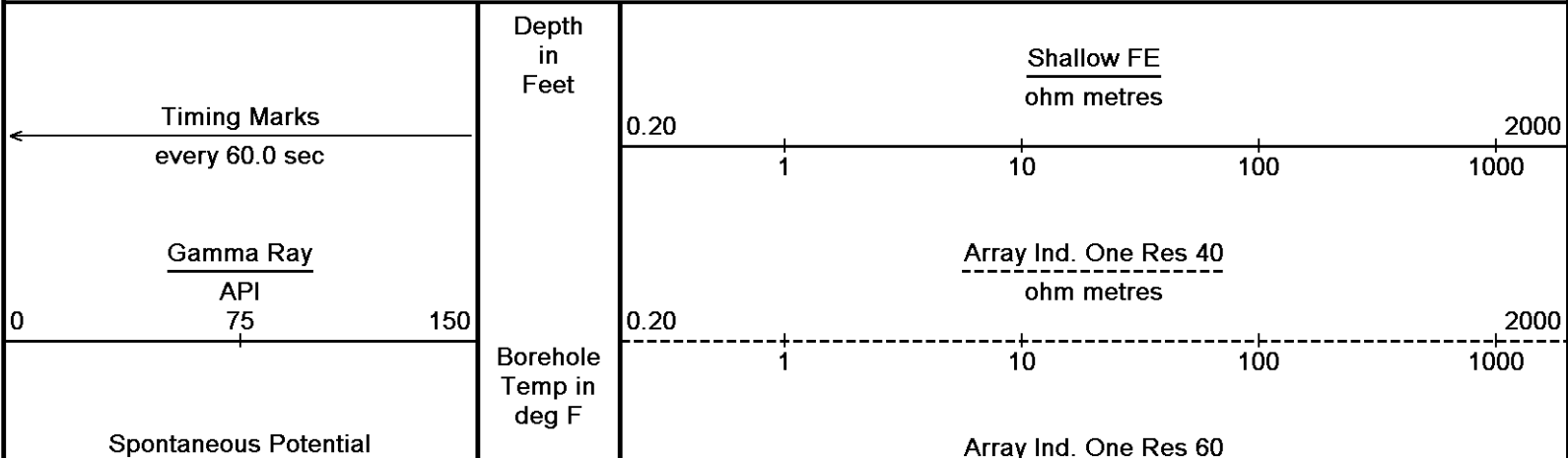


Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 14-JUN-2012 14:56
Filename: C:\Minimus 11_03_4044\Data\McCoy Petroleum Fitzger...\McCoy Fitzgerald A #3-30_002.dta Recorded on 14-JUN-2012 13:13
System Versions: Logged with 11.03.4044 Plotted with 11.03.4044

2 INCH MAIN

5 INCH MAIN

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 14-JUN-2012 14:56
Filename: C:\Minimus 11_03_4044\Data\McCoy Petroleum Fitzger...\McCoy Fitzgerald A #3-30_002.dta Recorded on 14-JUN-2012 13:13
System Versions: Logged with 11.03.4044 Plotted with 11.03.4044



millivolts

—→| 20 |←—+

DST Uphole Tension

pounds

5000

0

Replay

Scale

1:240

3800

111°

3850

112°

3900

112°

3950

ohm metres

0.20

1

10

100

1000

2000

Array Ind. One Res Rt

ohm metres

0.20

1

10

100

1000

2000

112°
Array Ind. One Res R
Array Ind. One Res 60
Array Ind. One Res 40

4000

Shallow FE

← Spontaneous Potential

← Gamma Ray

DST Uphole Tension →

112°

4050

113°

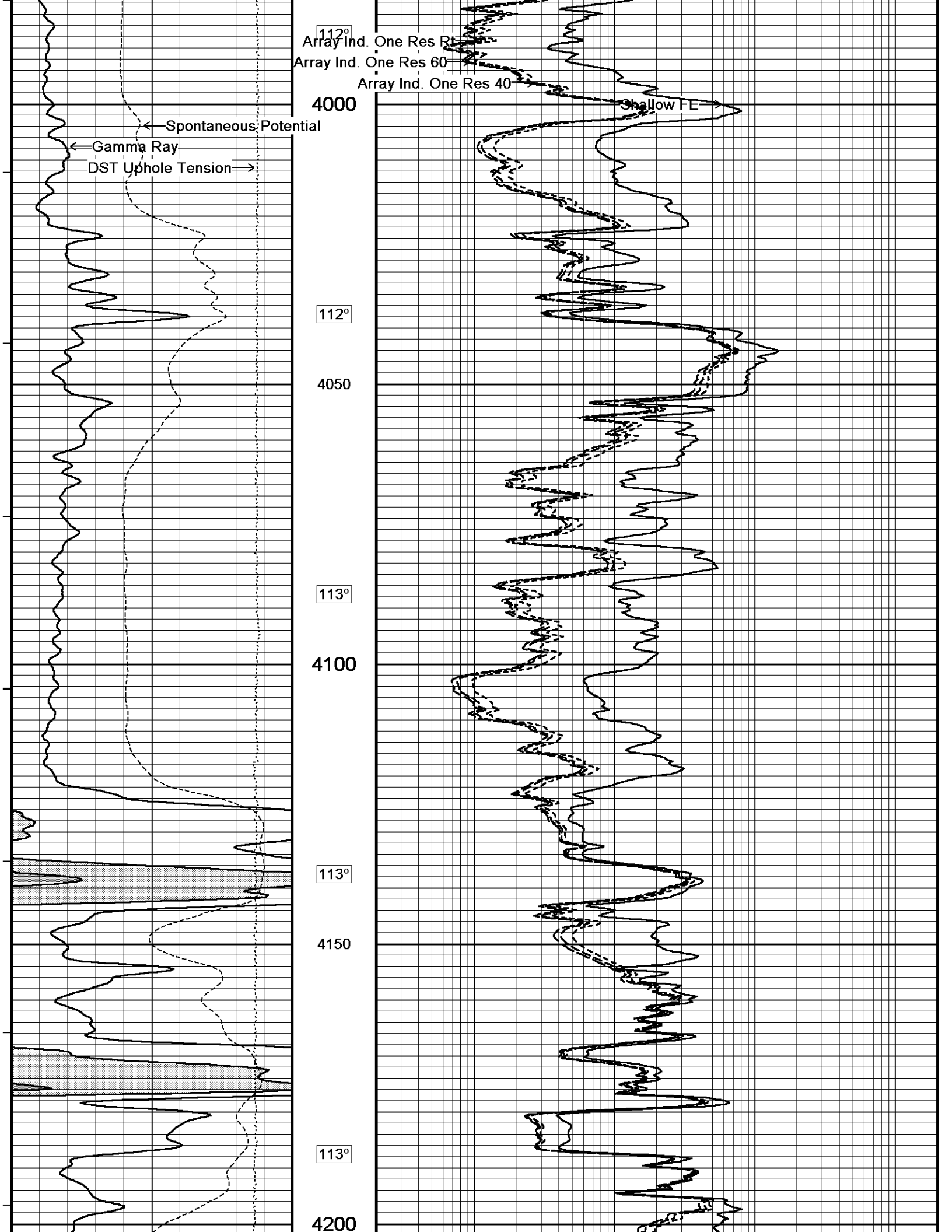
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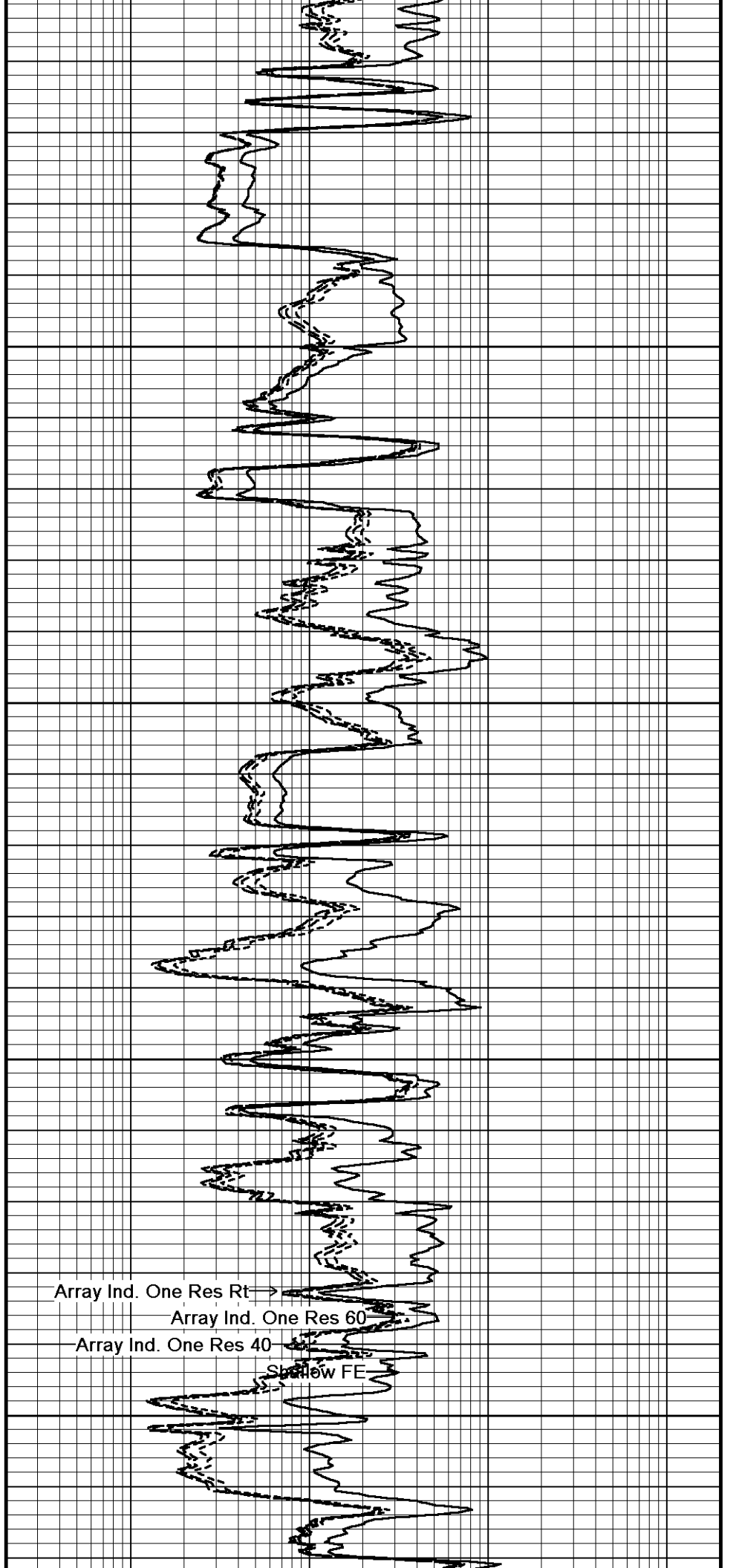
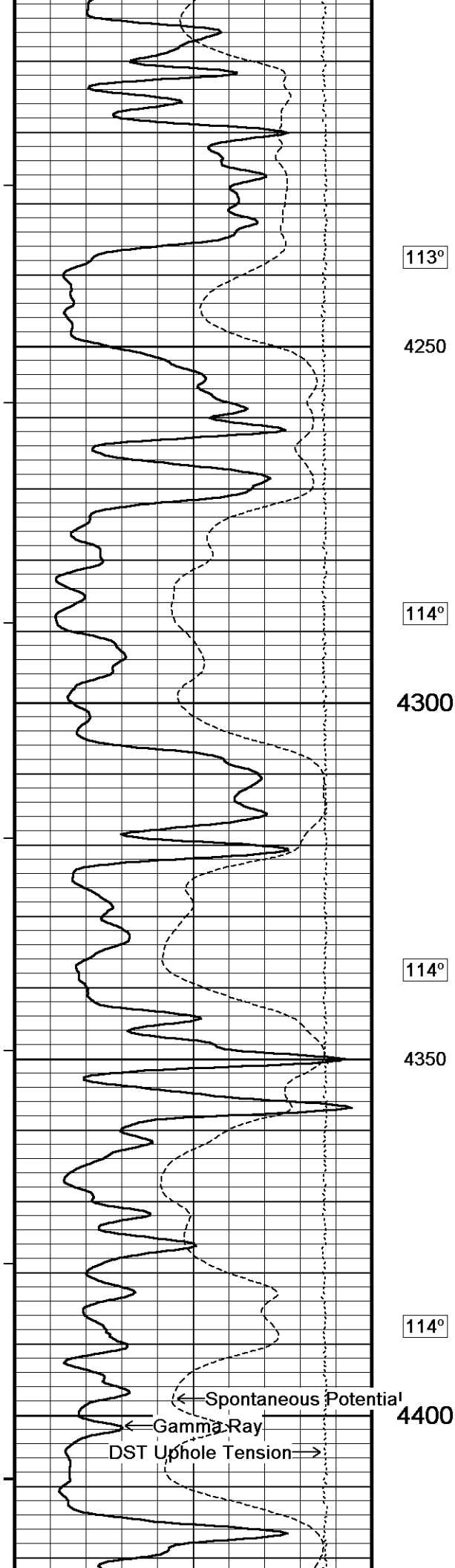
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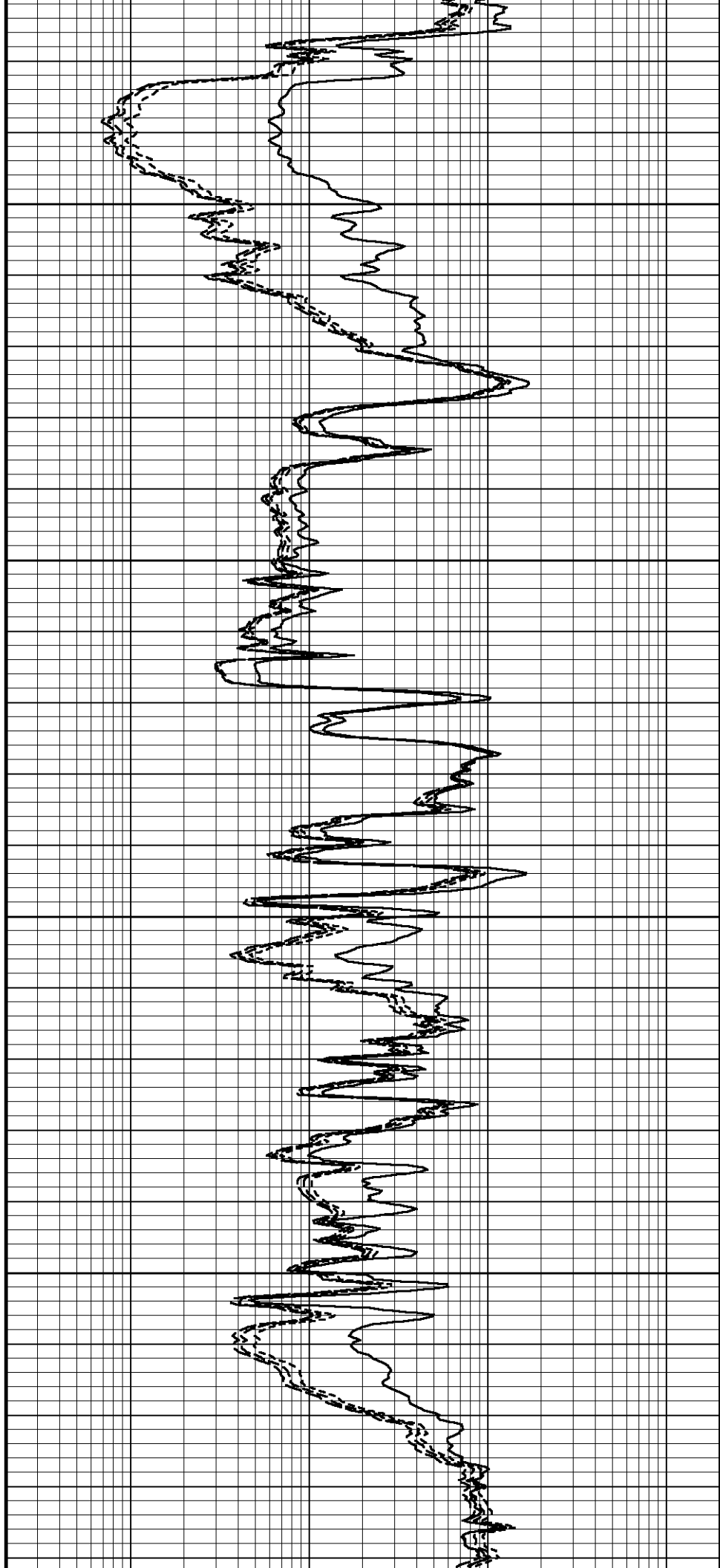
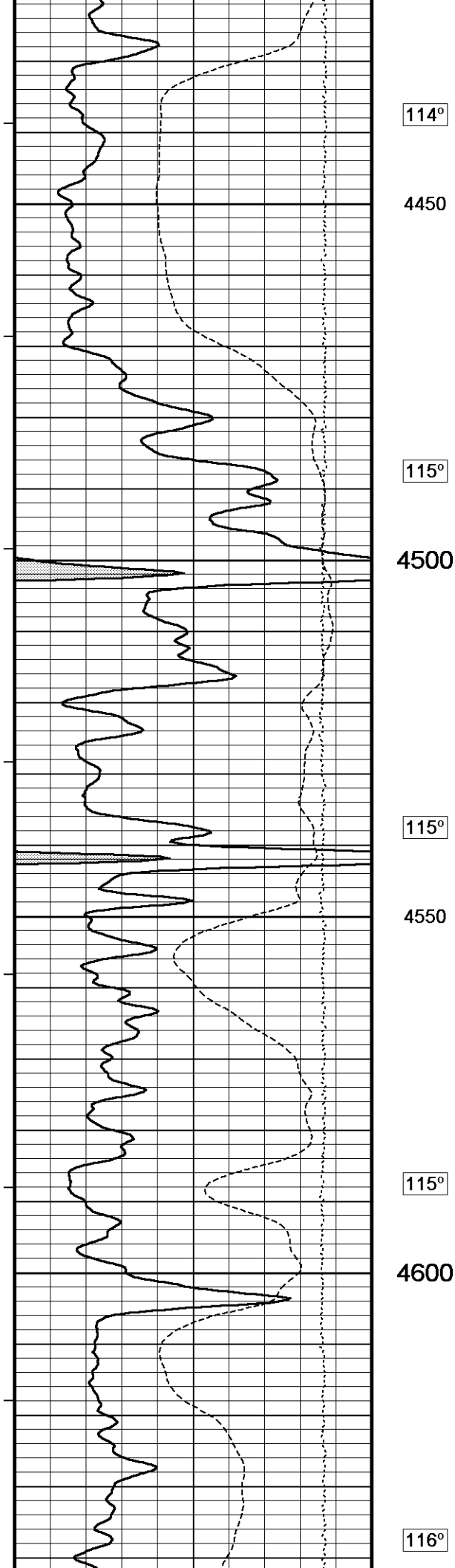
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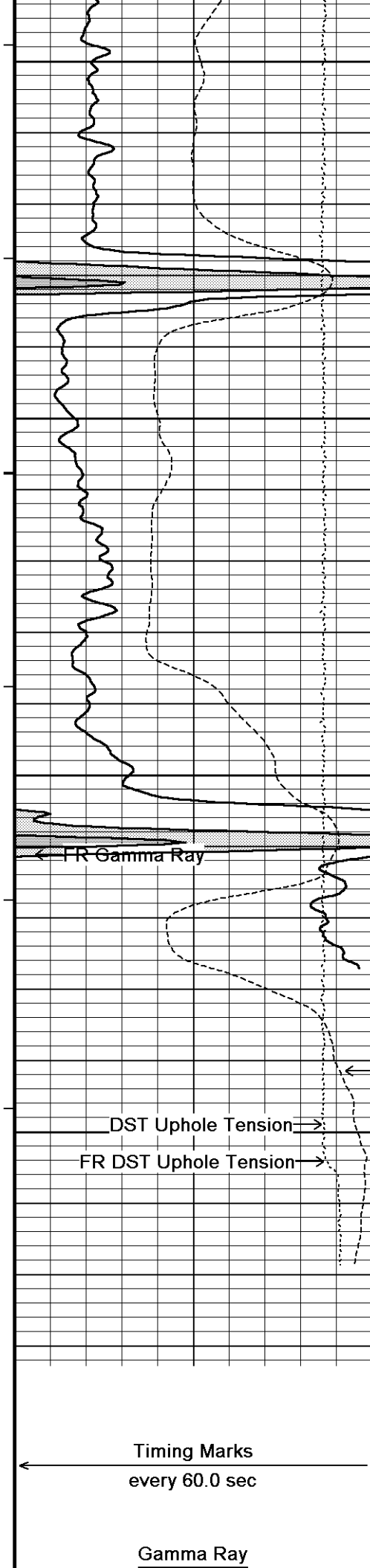
113°

4200









4650

116°

4700

116°

4750

← FR Gamma Ray

← Spontaneous Potential

DST Uphole Tension →

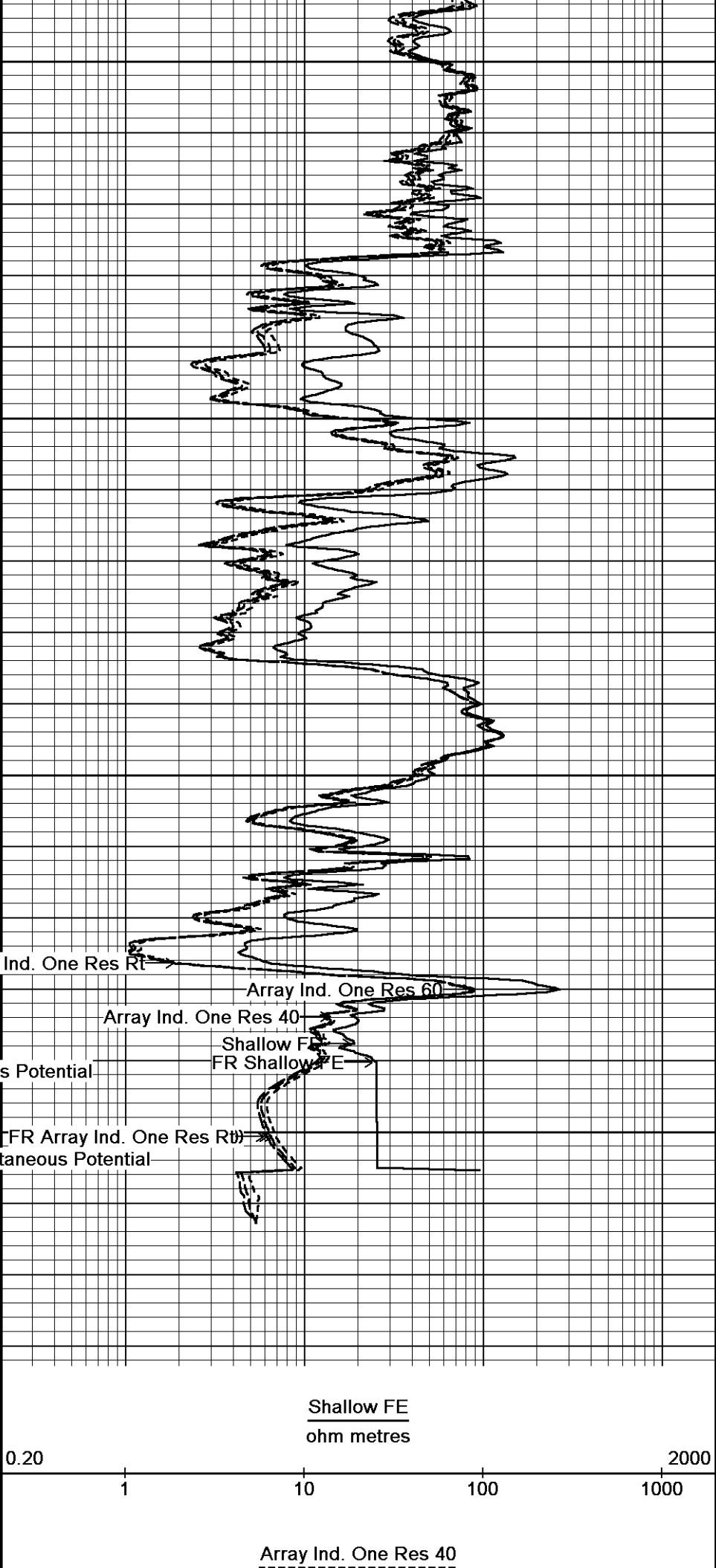
FR DST Uphole Tension →

4800

4830
Depth
in
Feet

Timing Marks
every 60.0 sec

Gamma Ray



Array Ind. One Res Rt →

Array Ind. One Res 60 →

Array Ind. One Res 40 →

Shallow FE
FR Shallow FE →

FR Array Ind. One Res Rt →

← FR Spontaneous Potential

Shallow FE
ohm metres

0.20

1

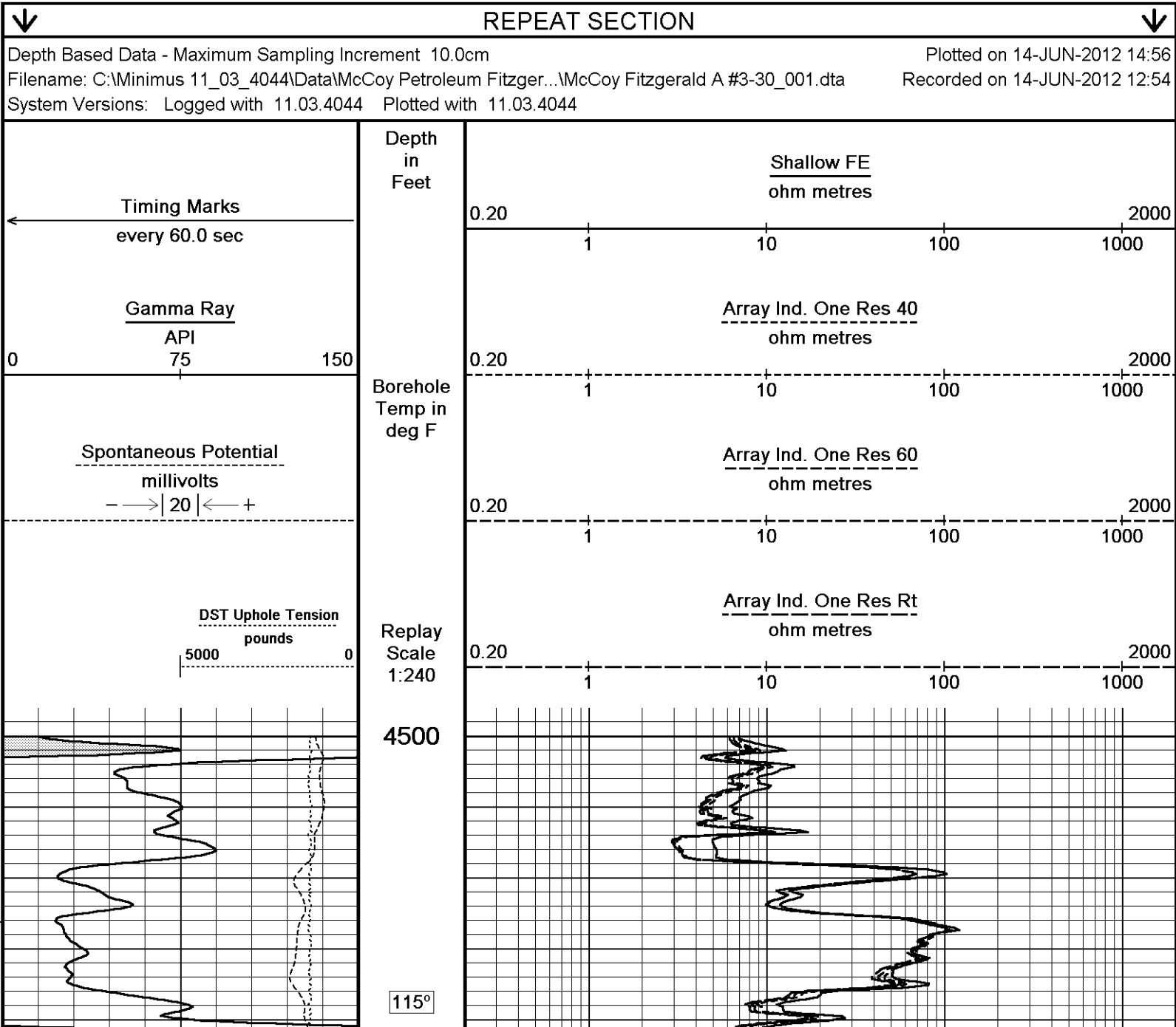
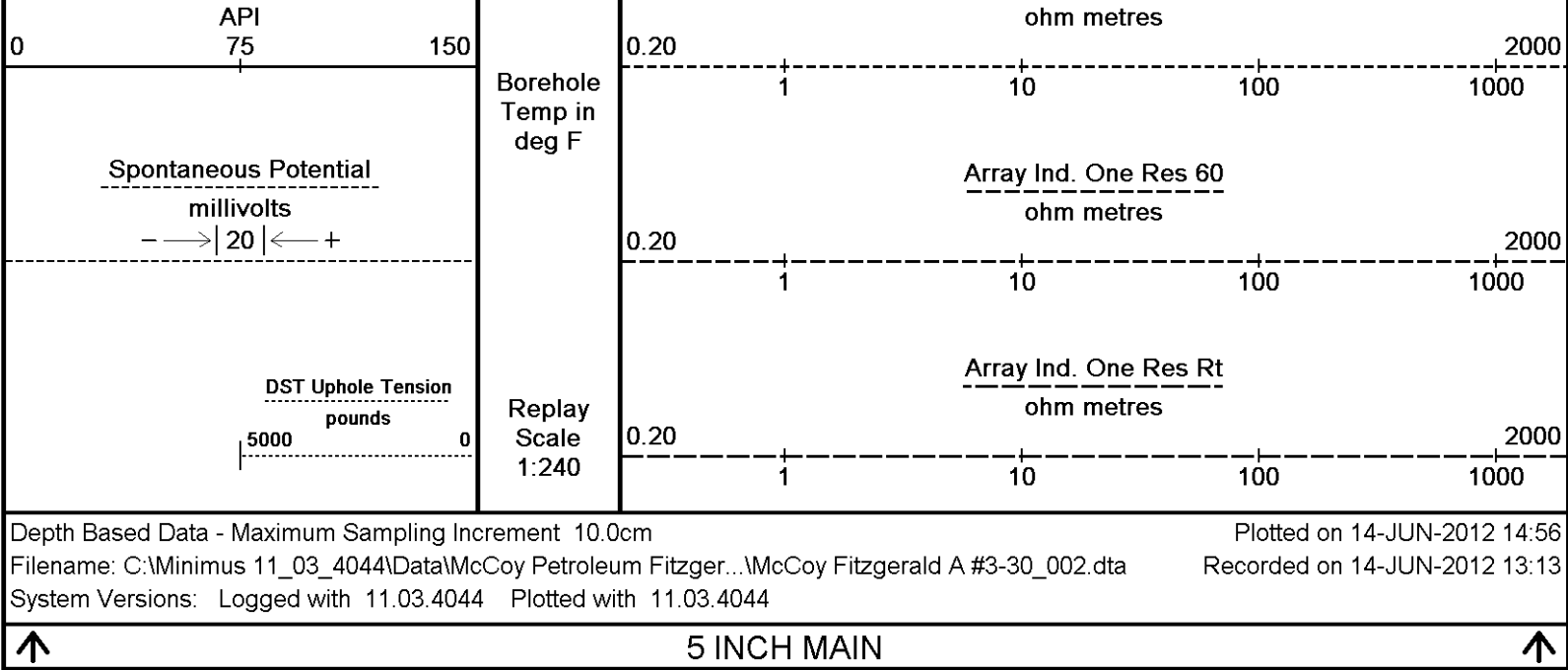
10

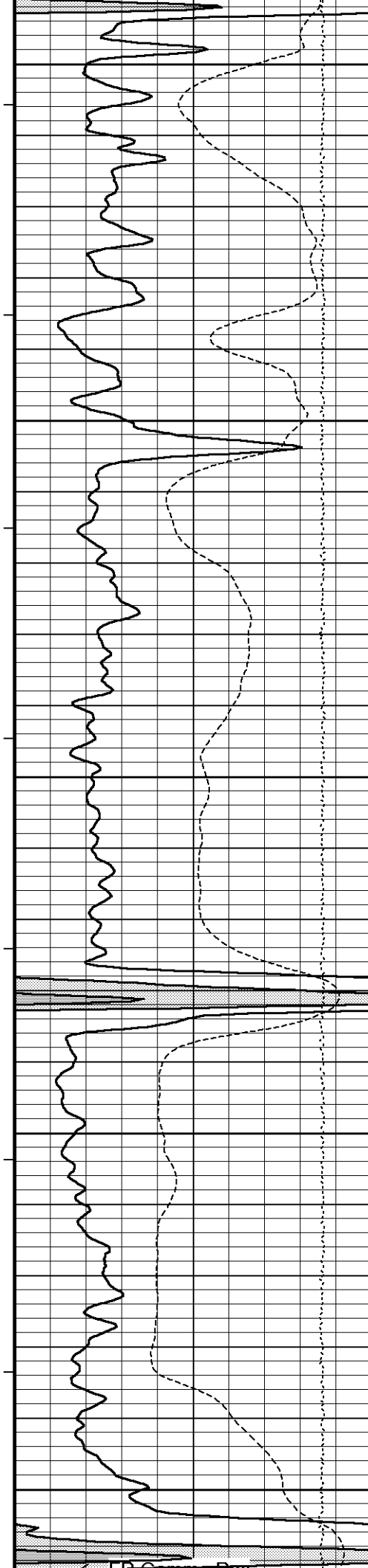
100

1000

2000

Array Ind. One Res 40





4550

115°

4600

115°

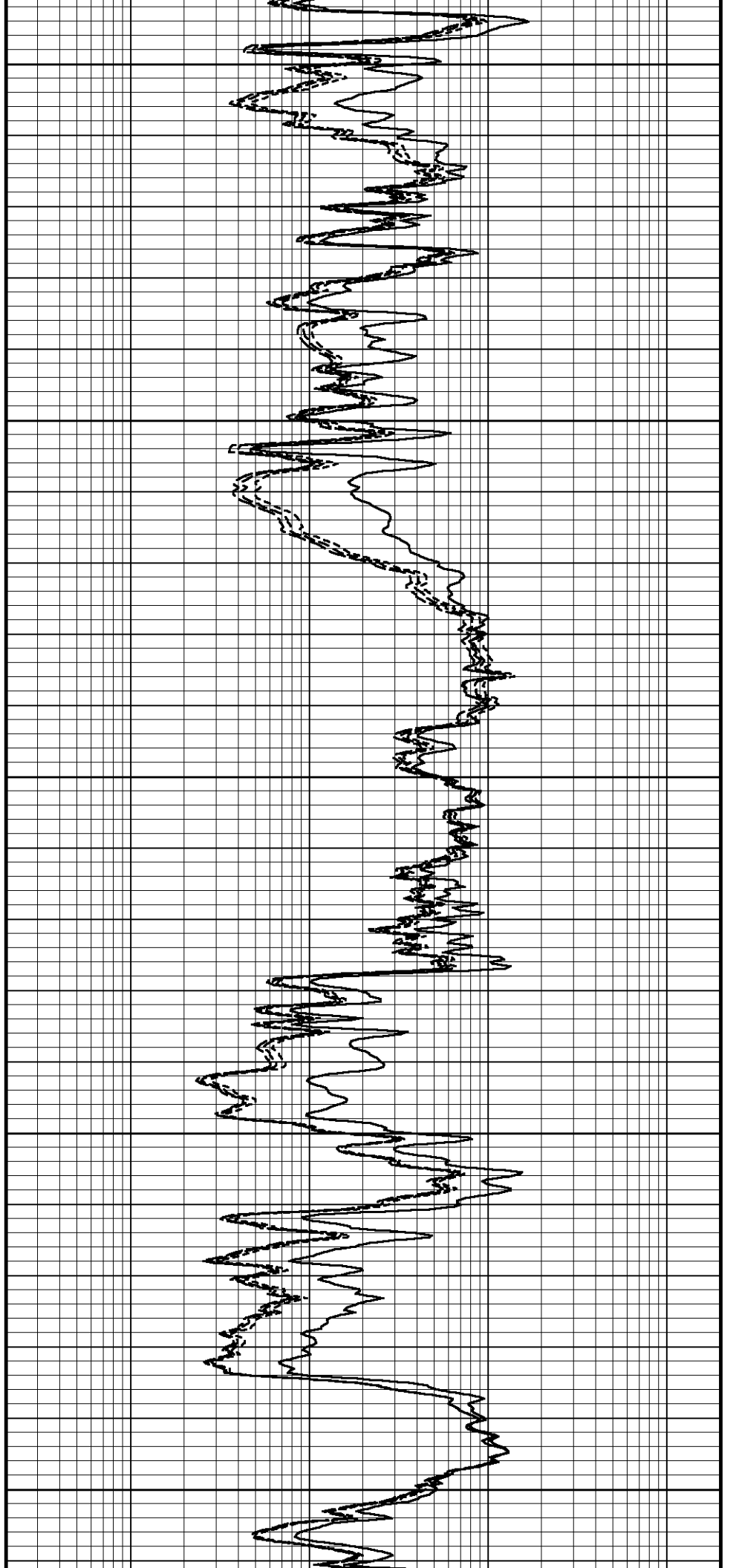
4650

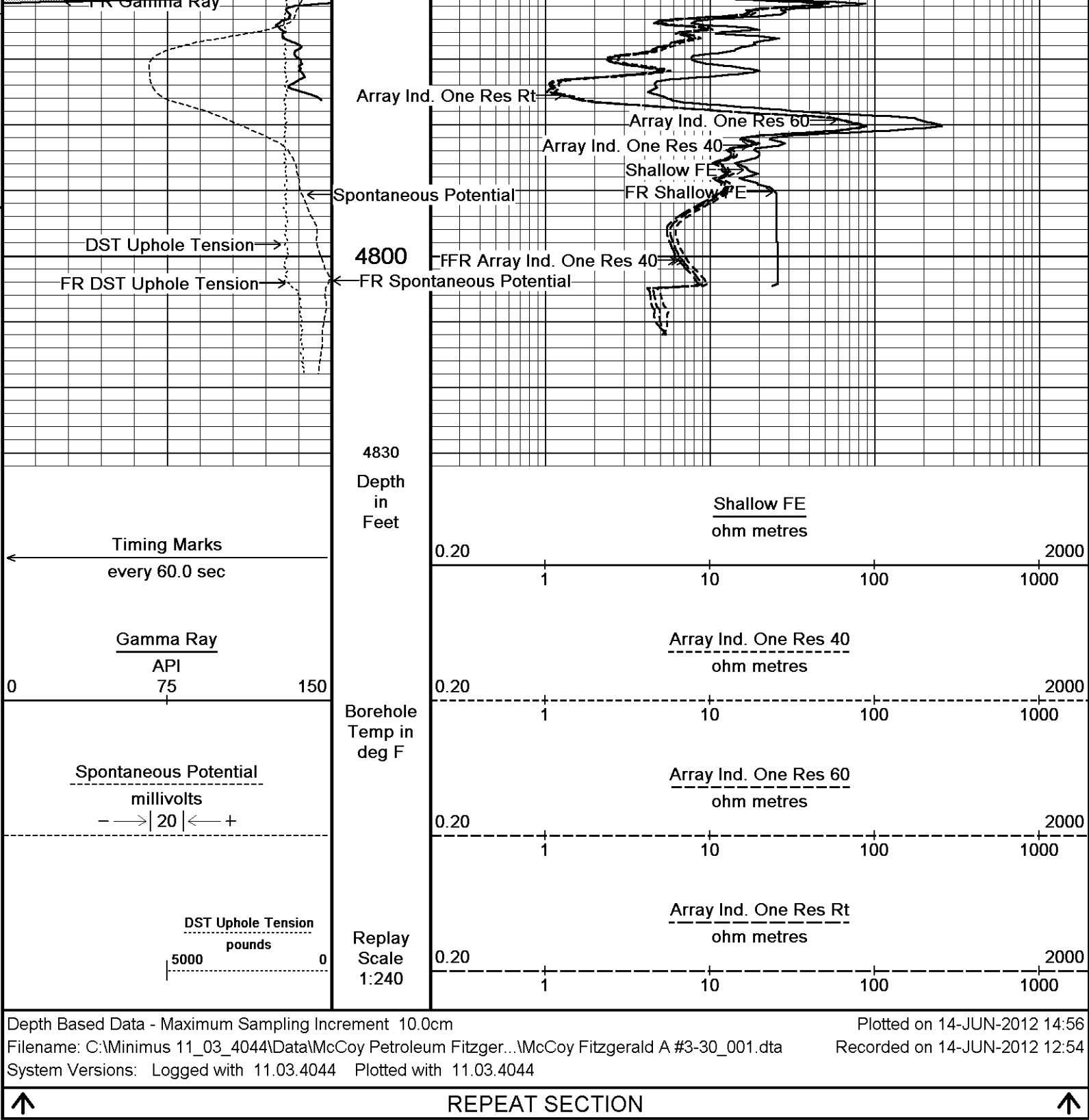
116°

4700

115°

4750





Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\Minimus 11_03_4044\Data\McCoy Petroleum Fitzgerald A #3-30\McCoy Fitzgerald A #3-30_001.dta
System Versions: Logged with 11.03.4044 Plotted with 11.03.4044
Plotted on 14-JUN-2012 14:56
Recorded on 14-JUN-2012 12:54

BEFORE SURVEY CALIBRATION

C:\Minimus 11_03_4044\Data\McCoy Petroleum Fitzgerald A #3-30\McCoy Fitzgerald A #3-30.dta

General Constants All 000 Last Edited on 14-JUN-2012,08:45

General Parameters		
Mud Resistivity	0.840	ohm-metres
Mud Resistivity Temperature	95.000	degrees F
Water Level	0.000	feet
Density/Neutron Processing	Wet Hole	

Hole/Annular Volume and Differential Caliper Parameters
HVOL Method Single Caliper
HVOL Caliper 1 Density Caliper

HVOL Caliper 2	N/A	
Annular Volume Diameter	4.500	inches
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Array Ind. One Res Rt	
RWA Constant A	1.000	
RWA Constant M	2.000	

Down-hole Tension Calibration SMS 0			Field Calibration on 11-JUN-2012 07:01
Reading No	Measured	Calibrated (lbs)	
1	12381.30	0.00	
2	13456.91	626.10	

Gamma Calibration MCG-B 39			Field Calibration on 13-JUN-2012 14:11
	Measured	Calibrated (API)	
Background	65	43	
Calibrator (Gross)	1147	768	
Calibrator (Net)	1082	725	

Gamma Constants MCG-B 39			Last Edited on 14-JUN-2012,08:31
Gamma Calibrator Number	GRC038		
Mud Density	1.08	gm/cc	
Caliper Source for Processing	Density Caliper		
Tool Position	Eccentred		
Concentration of KCl	0.00	kppm	

SP Calibration MCG-B 39			Field Calibration on 24-MAY-2012 10:26
	Measured	Calibrated (mV)	
Reference 1	103.4	100.0	
Reference 2	-97.4	-100.0	

High Resolution Temperature Calibration MCG-B 39			Field Calibration on 02-APR-2012,14:03
	Measured	Calibrated(Deg F)	
Lower	50.00	50.00	
Upper	100.00	100.00	

High Resolution Temperature Constants MCG-B 39			Last Edited on
Pre-filter Length	11		

Caliper Calibration MML-A 4			Base Calibration on 15-MAY-2012 17:25
			Field Calibration on 13-JUN-2012 14:02
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	15117	5.98	
2	18514	7.97	
3	21781	9.86	
4	25834	11.92	
5	0	0.00	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (in)	Actual Caliper (in)	
	6.15	5.98	

Micro Normal and Micro Inverse Calibration MML-A 4			Base Calibration on 15-MAY-2012 17:31
			Field Check on 13-JUN-2012 14:00
Base Calibration			
	Measured	Calibrated (ohm-m)	
Channel	Resistor 1 Resistor 2	Resistor 1 Resistor 2	
Micro Normal	12.2 60.3	5.0 25.0	
Micro Inverse	15.7 78.5	5.0 25.0	
Channel	Base Check (ohm-m)	Field Check (ohm-m)	
Micro Normal	62.8	62.8	
Micro Inverse	48.2	48.2	

Pad Type	8-12 in Soft Rubber Inflatable 006-9011-159		
Micro Normal K Factor	1.0000		
Micro Inverse K Factor	1.0000		
Standoff Offset	N/A	inches	

Neutron Calibration MDN-B.J 387

Base Calibration on 15-MAY-2012 16:34

Field Check on 13-JUN-2012 14:16

Base Calibration					
		Measured		Calibrated (cps)	
	Near	Far	Near	Far	
	2995	90	3714	110	
Ratio		33.447		33.764	
Field Calibrator at Base				Calibrated (cps)	
			1667	2508	
Ratio				0.664	
Field Check				Calibrated (cps)	
			1673	2530	
Ratio				0.661	

Neutron Constants MDN-B.J 387

Last Edited on 14-JUN-2012,08:45

Neutron Source Id	P0204NN		
Neutron Jig Number	5824NE		
Epithermal Neutron	No		
Caliper Source for Processing	Density Caliper		
Stand-off	0.00	inches	
Mud Density	1.00	gm/cc	
Limestone Sigma	7.10	cu	
Sandstone Sigma	4.26	cu	
Dolomite Sigma	4.70	cu	
Formation Pressure Source	Constant Value		
Formation Pressure	0.00	kpsi	
Temperature Source	Constant Value		
Temperature	68.00	degrees F	
Mud Salinity	0.00	kppm	
Formation Fluid Salinity Source	Constant Value		
Formation Fluid Salinity	0.00	kppm	
Barite Mud Correction	Not Applied		

FE Calibration MFE-B.J 352

Base Calibration on 15-MAY-2012 17:11

Field Check on 13-JUN-2012 13:57

Base Calibration			
	Measured	Calibrated (ohm-m)	
Reference 1	0.0	0.0	
Reference 2	963.4	126.8	
Base Check		281.4	
Field Check		281.5	

FE Constants MFE-B.J 352

Last Edited on 14-JUN-2012,08:45

Running Mode	No Sleeve		
MFE K Factor	0.1268		
Caliper Source for FE correction	Density Caliper		
Caliper Value for FE correction	N/A	inches	
Rm Source for FE correction	Temperature Corr		
Temp. for Rm Corr.	MCG External Temperature		
Stand-off	0.5	inches	

Induction Calibration MAI-A.A 178

Base Calibration on 15-MAY-2012,14:15

Field Check on 13-JUN-2012 13:55

Base Calibration					
Test Loop Calibration			Measured	Calibrated (mmho/m)	
Channel	Low	High	Low	High	
1	17.6	484.7	9.3	966.2	
2	6.2	391.4	7.6	821.4	
3	4.0	264.5	5.2	566.0	

4	2.3	135.1	2.6	279.2	
Array Temperature	77.0	Deg F			
Channel	Base Check (mmho/m)		Field Check (mmho/m)		
	Low	High	Low	High	
1	0.0	0.0	13.0	3764.4	
2	0.0	0.0	29.9	3468.0	
3	0.0	0.0	27.4	3014.6	
4	0.0	0.0	18.8	2065.2	
Deep	0.0	0.0	16.0	1995.6	
Medium	0.0	0.0	40.4	3955.7	
Shallow	0.0	0.0	45.8	5083.4	
Array Temperature	0.0		83.6	Deg F	

Induction Constants MAI-A.A 178

Last Edited on 14-JUN-2012,08:46

Induction Model		RtAP-WBM	
Caliper for Borehole Corr.		Density Caliper	
Hole Size for Borehole Correction		N/A	inches
Tool Centred		No	
Stand-off Type		Fins	
Stand-off		0.50	inches
Number of Fins on Stand-off		8.0000	
Stand-off Fin Angle		45.00	degrees
Stand-off Fin Width		0.5000	inches
Borehole Corr. Rm Source		Temperature Corr	
Temp. for Rm Corr.	MCG	External Temperature	
Squasher Start		0.0020	mhos/metre
Squasher Offset		N/A	mhos/metre
Borehole Normalisation			
DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000

Calibration Site Corrections

Channel 1	0.00	mmhos/metre
Channel 2	0.00	mmhos/metre
Channel 3	0.00	mmhos/metre
Channel 4	0.00	mmhos/metre

Apparent Porosity and Water Saturation Constants

Archie Constant (A)	1.00	
Cementation Exponent (M)	2.00	
Saturation Exponent (N)	2.00	
Saturation of Water for Apor	100.00	percent
Resistivity of Water for Apor and Sw	0.05	ohm-m
Resistivity of Mud Filtrate for Sw	0.00	ohm-m
Source for Rt	0.00	
Source for Rxo	0.00	

High Resolution Temperature Calibration MAI-A.A 178

Field Calibration on 0C4030110004,

	Measured	Calibrated(Deg F)
Lower	32.00	32.00
Upper	68.00	68.00

High Resolution Temperature Constants MAI-A.A 178

Last Edited on 0C4060522000,

Pre-filter Length	11
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Caliper Calibration MPD-B 35

Base Calibration on 15-MAY-2012 15:38

Field Calibration on 13-JUN-2012 13:58

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	21260	3.99
2	31424	5.98
3	41761	7.97

3	41761	7.97
4	51280	9.86
5	61536	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
5.99	5.98

Photo Density Calibration MPD-B 35

Base Calibration on 15-MAY-2012 15:56
Field Check on 13-JUN-2012 14:06

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	62707	32170	59556	30836
Reference 2	26808	2860	24941	2541

Field Check at Base

1145.6	1360.5
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Field Check

1144.7	1352.6
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PE Calibration

Base Calibration	WS	Measured		Calibrated Ratio
		WH	Ratio	
Background	206	1009		
Reference 1	23065	62504	0.372	0.371
Reference 2	7038	26659	0.266	0.272

Field Check at Base

206.0	1009.0
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Field Check

205.1	1008.6
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Density Constants MPD-B 35

Last Edited on 14-JUN-2012,08:33

Density Source Id	18235B
Nylon Calibrator Number	DNCE695
Aluminium Calibrator Number	DACD698
Density Shoe Profile	8 inch
Caliper Source for Processing	Density Caliper
PE Correction to Density	Not Applied
Mud Density	1.08 gm/cc
Mud Density Z/A Multiplier	1.11
Mud Filtrate Density	1.00 gm/cc
Dry Hole Mud Filtrate Density	1.00 gm/cc
DNCT	0.00 gm/cc
CRCT	0.00 gm/cc
Density Z/A Correction	Hybrid
Matrix Density (gm/cc)	Depth (ft)
2.71	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

DOWNHOLE EQUIPMENT

C:\Minimus 11_03_4044\Data\McCoy Petroleum Fitzgerald A #3-30\McCoy Fitzgerald A #3-30.dta

Compact Comms Gamma
MCG-B 39 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Comms Gamma

42.87 ft GRGC - Gamma Ray

MCG-B 39 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-log

MML-A 4 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

Compact Micro-log

MML-A 4 LG: 7.97 ft WT: 81.6 lb OD: 2.24 in

Compact Neutron

MDN-B.J 387 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Neutron

MDN-B.J 387 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper

MPD-B 35 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

Compact Density/Caliper

MPD-B 35 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

Compact Focussed Electric

MFE-B.J 352 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Focussed Electric

MFE-B.J 352 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction

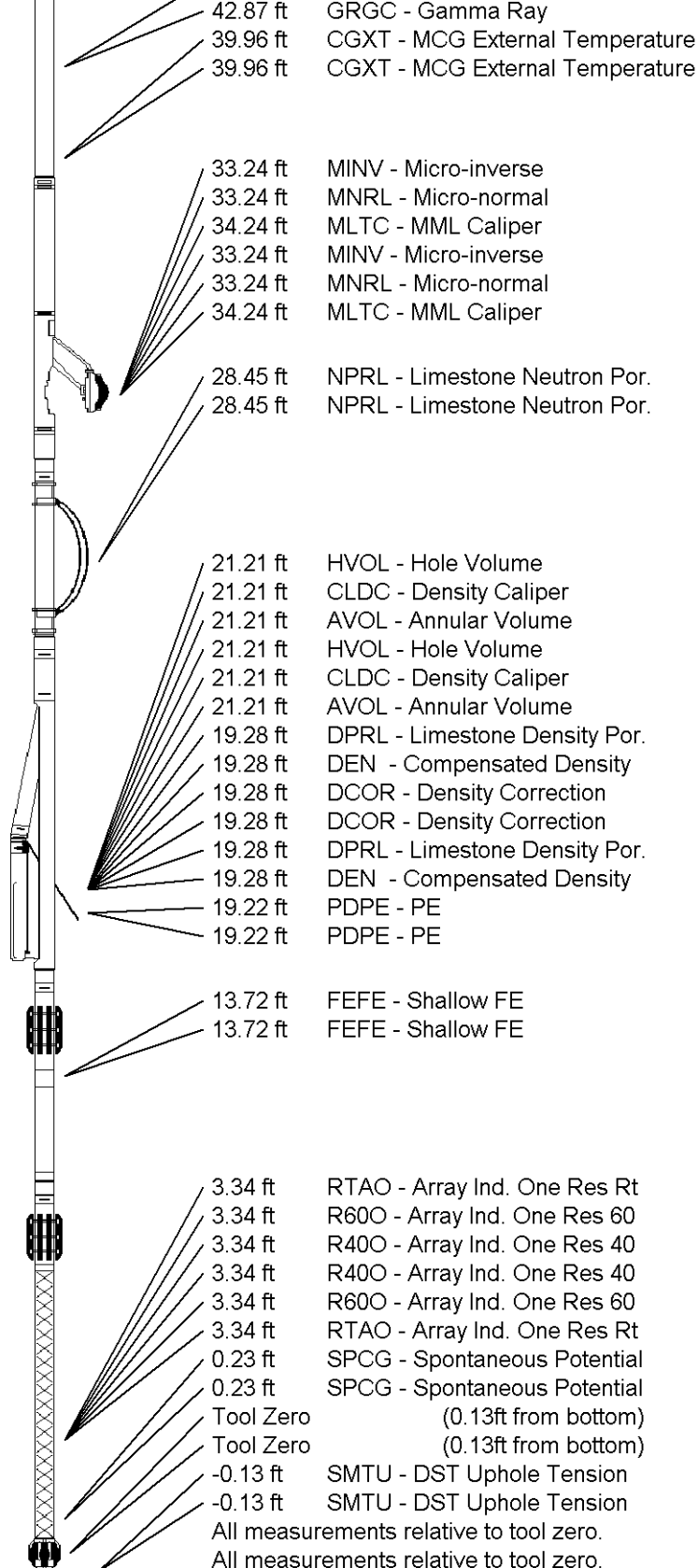
MAI-A.A 178 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Compact Induction

MAI-A.A 178 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 48.16 ft Weight: 383.6 lb

Total Length: 48.16 ft Weight: 383.6 lb



COMPANY

MCCOY PETROLEUM CORPORATION

WELL

FITZGERALD 'A' #3-30

FIELD

LETTE SE

PROVINCE/COUNTY

HASKELL

COUNTRY/STATE

U.S.A. / KANSAS

Elevation Kelly Bushing 2858.00 feet

Elevation Drill Floor 2856.00 feet

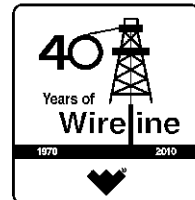
First Reading 4801.00 feet

Depth Driller 4810.00 feet

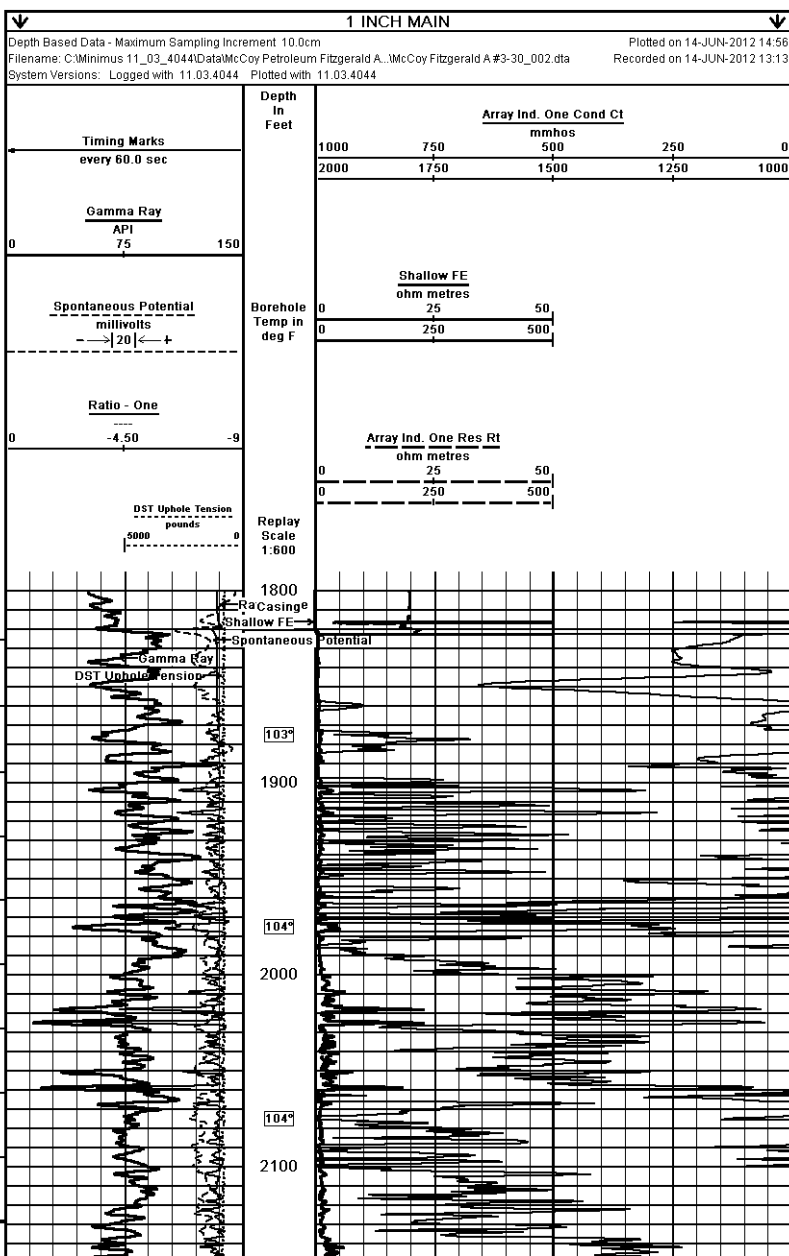


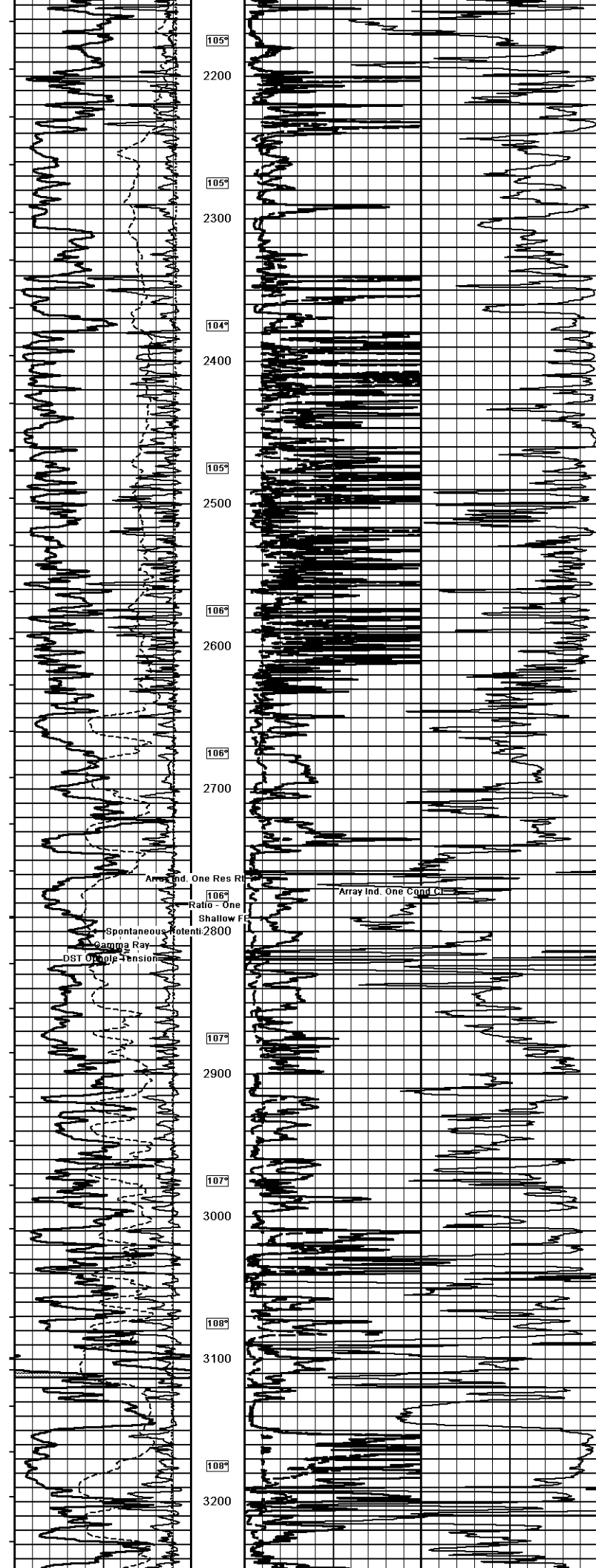
Weatherford®

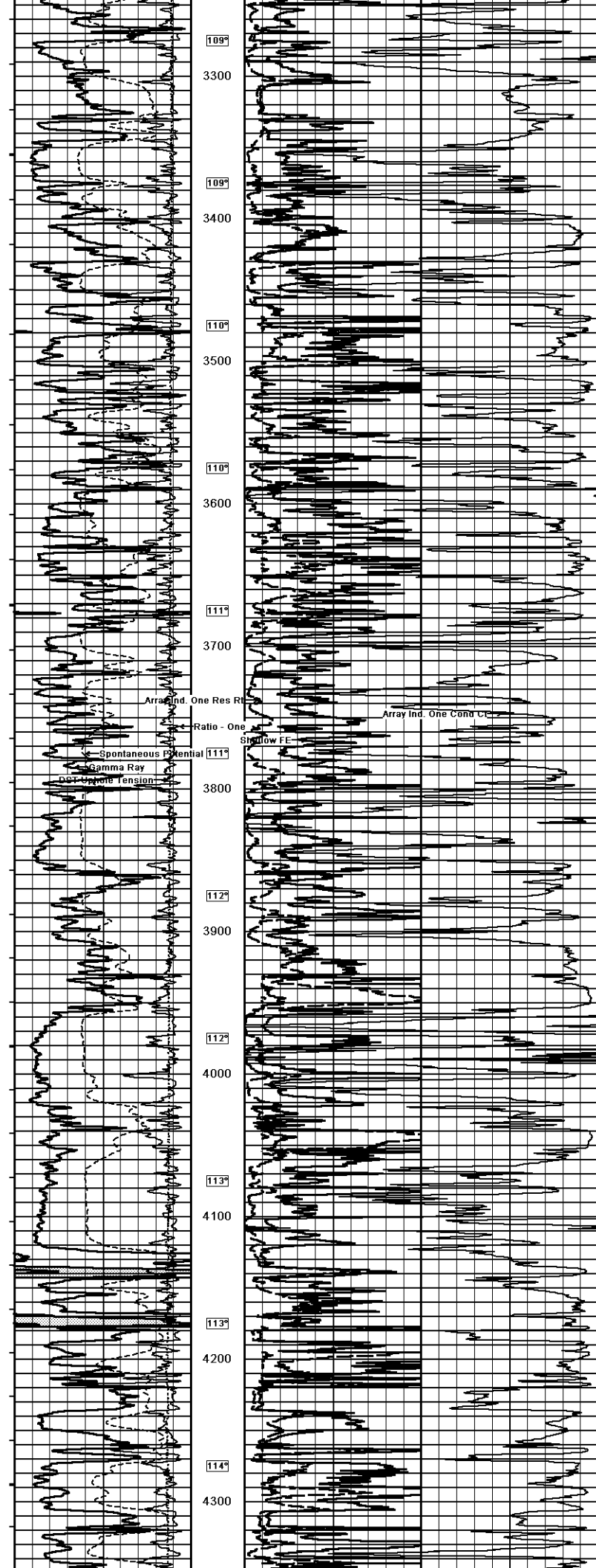
ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

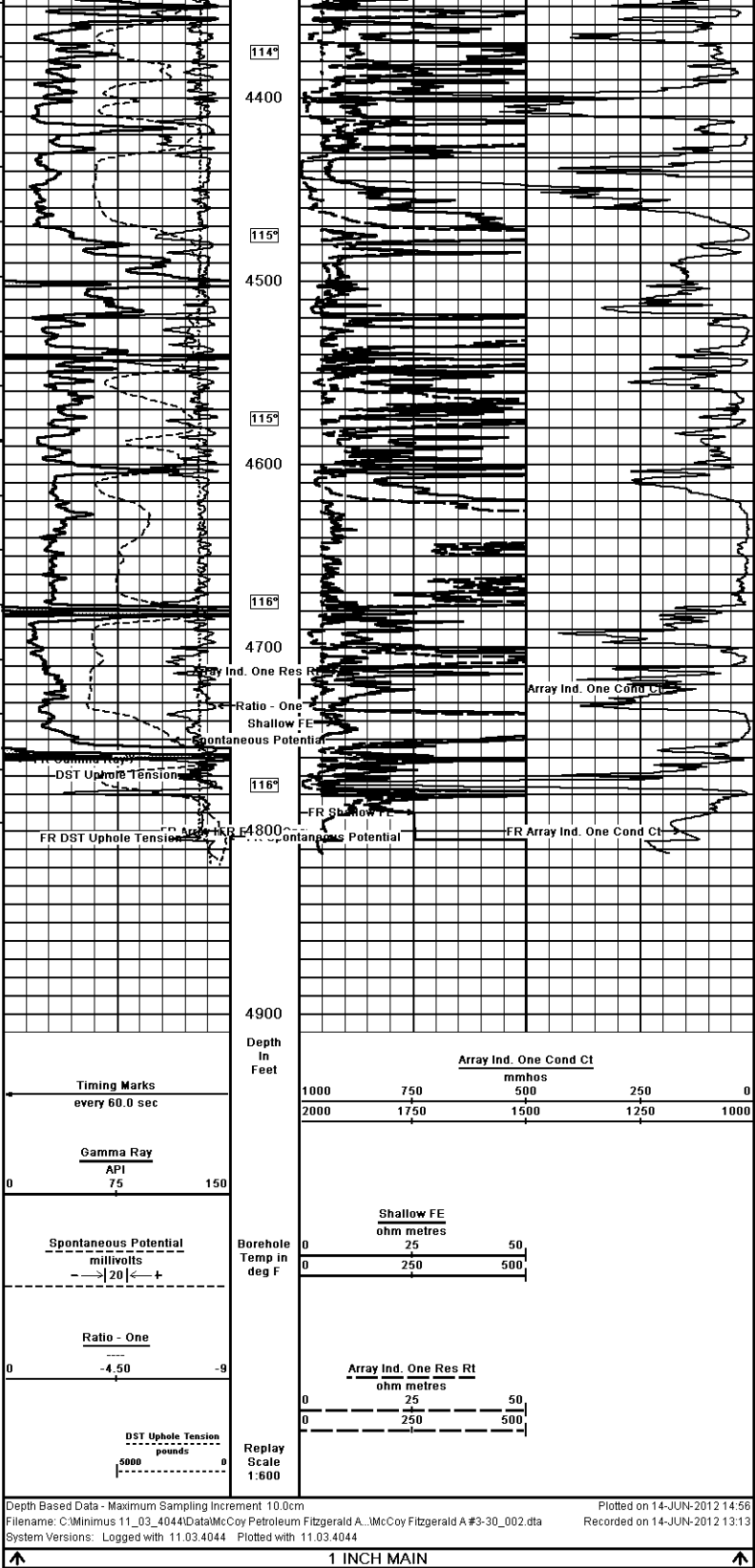


Weatherford		ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG	
COMPANY MCCOY PETROLEUM CORPORATION			
WELL FITZGERALD A #3-30			
FIELD LETTIE SE			
PROVINCE/COUNTY HASKELL			
COUNTRY/STATE U.S.A. / KANSAS			
LOCATION 1625' FNL & 1270' FEL			
SEC	TYPE	RECE	Other Services
30	30S	31W	MP/DMDN
MNL			
Log Number 15-081-21388			
Permanent Datum G.L. Elevation 2845 feet			
Log Measured From RB			
Drilling Measured From K.B.			
Date 14-JUN-2012			
Run Number	ONE		
Depth Driller	4810.00	feet	
Depth Logger	4804.00	feet	
First Reading	4801.00	feet	
Last Reading	1820.00	feet	
Casing Driller	1819.00	feet	
Casing Logger	1820.00	feet	
Bit Size	7 8/15	inches	
Hole Fluid Type	FLOWLINE		
Density/Viscosity	9.00	lbm/gal	44.00 CP
PI / Fluid Loss	11.00		8.00 ml/30min
Sample Source	FLOWLINE		
Run @ Measured Temp	0.84 @ 95.0	ohm-m	
Run @ Measured Temp	0.87 @ 95.0	ohm-m	
Run @ Measured Temp	1.01 @ 95.0	ohm-m	
Source from / from	CHLC		
Run @ BHT	0.89 @ 16.0	ohm-m	
Time Since Circulation	4 HOURS	deg F	
Max Recorded Temp	116.00	deg F	
Equipment Name	COMPACT		
Equipment Base	13096	UB	
Recorded By	L SCOTT		
Witnessed By	JERRY SMITH		
S.O. # 0099	3534495		LB12-149









COMPANY	MCCOY PETROLEUM CORPORATION				
WELL	FITZGERALD 'A' #3-30				
FIELD	LETTE SE				
PROVINCE/COUNTY	HASKELL				
COUNTRY/STATE	U.S.A. / KANSAS				
Elevation Kelly Bushing	2858.00	feet	First Reading	4801.00	feet
Elevation Drill Floor	2856.00	feet	Depth Driller	4810.00	feet
Elevation Ground Level	2845.00	feet	Depth Logger	4804.00	feet

Weatherford

ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

40
Wireline

