ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

Weatherford®

COMPANY	SHAKESPEARE OIL CO. INC
WELL	CARSON 1-26
FIELD	PENCE EAST
PROVINCE/COUNTY	SCOTT
COUNTRY/STATE	U.S.A. / KANSAS
LOCATION	649' FNL & 1371' FEL SE NE NW NE

SEC	TWP	RGE
26	16S	34W

API Number 15-171-20969
Permit Number

Other Services
MPD/MDN
MML
MSS

Permanent Datum GL, Elevation 3114 feet
Log Measured From KB
Drilling Measured From KB AT 10 FEET

Elevations:	feet
KB	3124.00
DF	3122.00
GL	3114.00

Date	07-SEP-2013	
Run Number	ONE	
Service Order	3541037	
Depth Driller	4890.00 feet	
Depth Logger	4889.00 feet	
First Reading	4886.00 feet	
Last Reading	267.00 feet	
Casing Driller	267.00 feet	
Casing Logger	267.00 feet	
Bit Size	7.875 inches	
Hole Fluid Type	CHEM	
Density / Viscosity	9.10 lb/USg	60.00 CP
PH / Fluid Loss	10.00	10.80 ml/30Min
Sample Source	PIT	
Rm @ Measured Temp	0.30 @ 91.0	ohm-m
Rmf @ Measured Temp	0.24 @ 91.0	ohm-m
Rmc @ Measured Temp	0.36 @ 91.0	ohm-m
Source Rmf / Rmc	CALC	CALC
Rm @ BHT	0.24 @113.0	ohm-m
Time Since Circulation	4 HRS	
Max Recorded Temp	113.00	deg F
Equipment / Base	13244	KANSAS
Recorded By	D. COLE	
Witnessed By	S. DAVIS	
JOB#	LB 13 - 251	

BOREHOLE RECORD

Last Edited: 07-SEP-2013 09:46

Bit Size inches	Depth From feet	Depth To feet
7.875	267.00	4890.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
CASING	8.625	0.00	267.00	24.00

REMARKS

- SOFTWARE ISSUE: WLS 13.05.9583
- TOOLS: MCG, MML, MDN, MPD, MFE, MSS, MAI
- HARDWARE:
  - MDN: DUAL BOWSPRING ECCENTRALIZER
  - MFE: 1 X 0.5 INCH STANDOFF
  - MSS: 2 X 0.5 INCH STANDOFF
  - MAI: 2 X 0.5 INCH STANDOFF
- 2.71 G/CC LIMESTONE DENSITY MATRIX USED TO CALCULATE POROSITY
- BOREHOLE RUGOSITY, TIGHT PULLS, AND WASHOUTS WILL AFFECT DATA QUALITY
- ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST
- TOTAL HOLE VOLUME FROM TD TO 3800 FEET: 410 CU.FT.

- ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO 3800 FEET: 230 CU.FT.

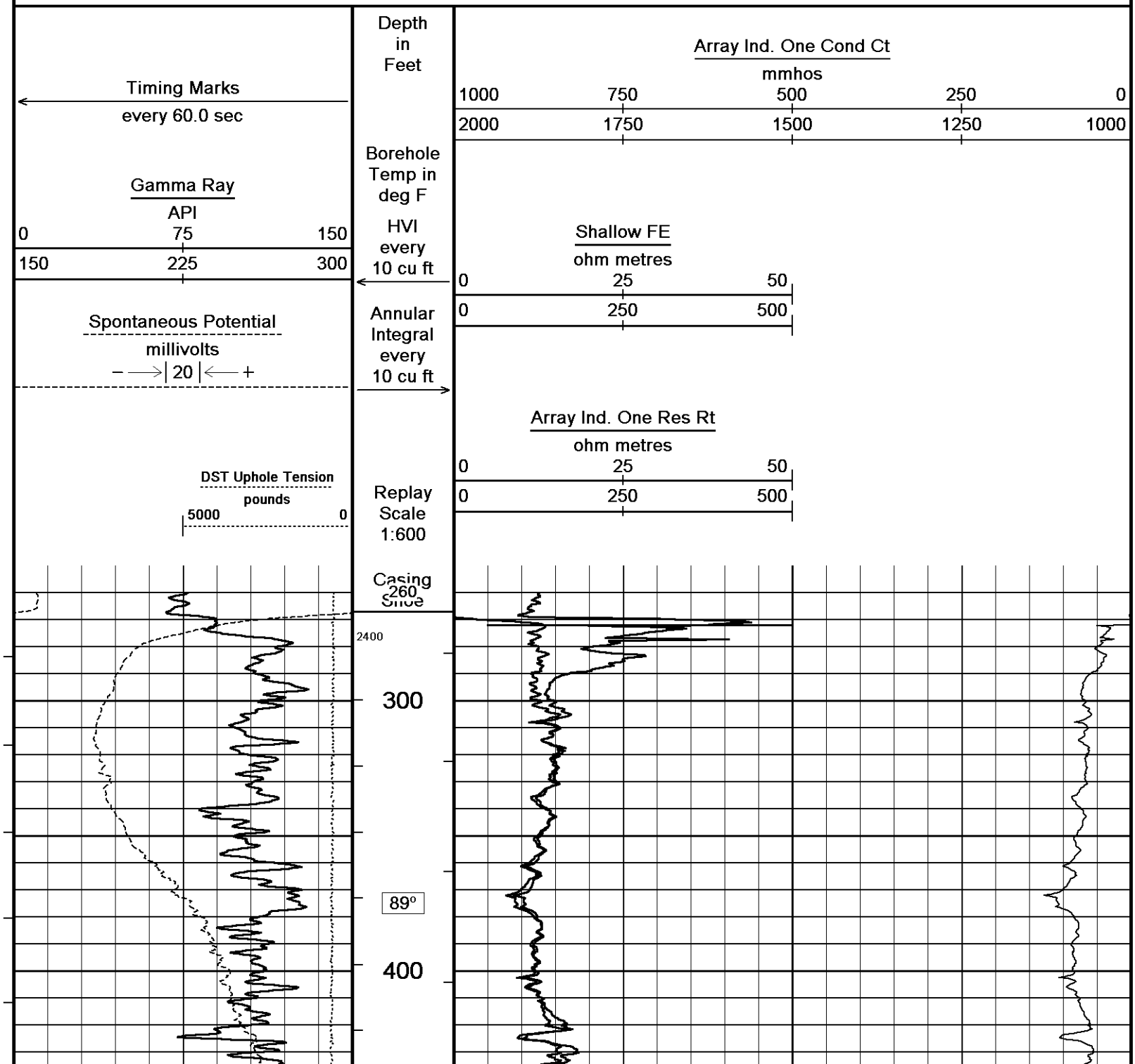
- RIG: HD #2

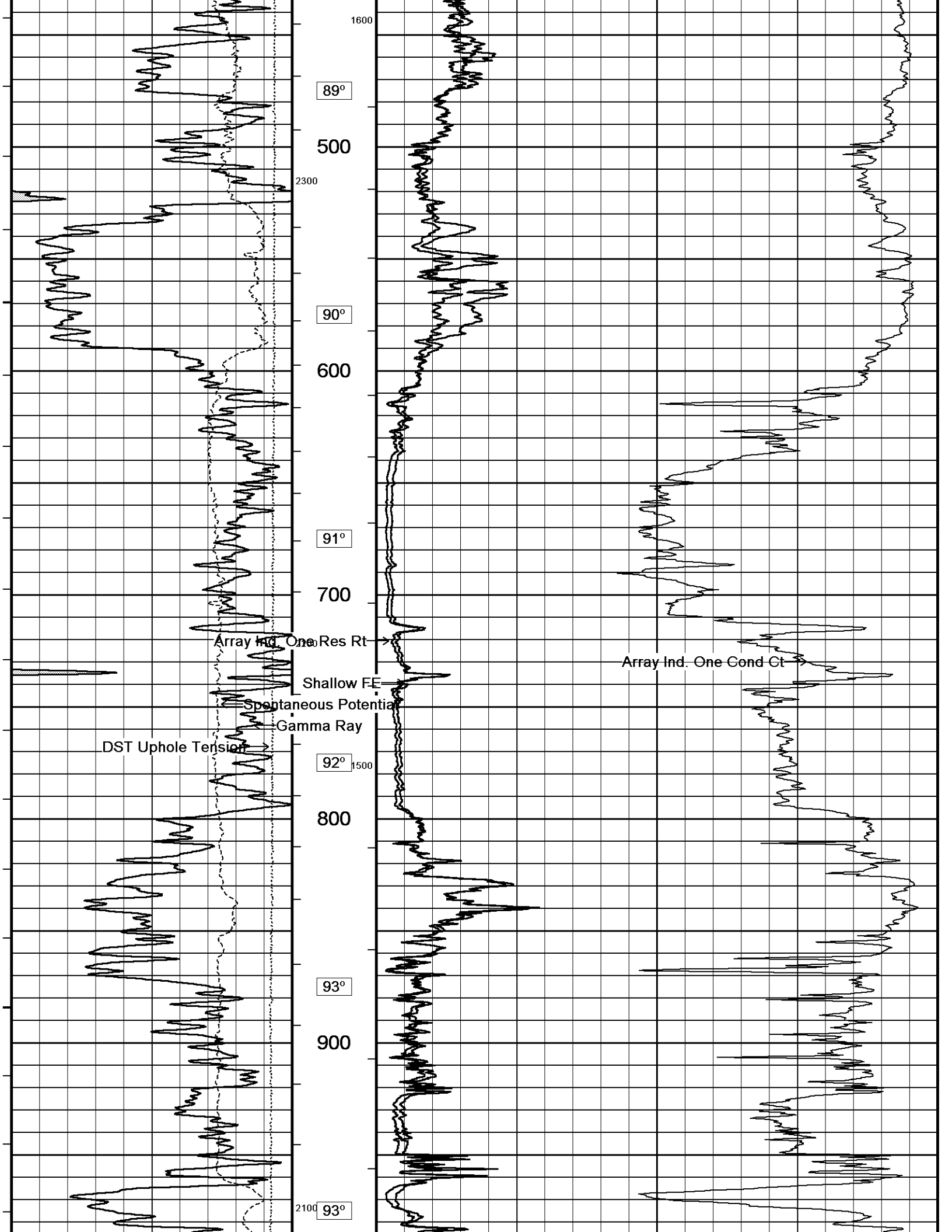
- ENGINEER: D. COLE

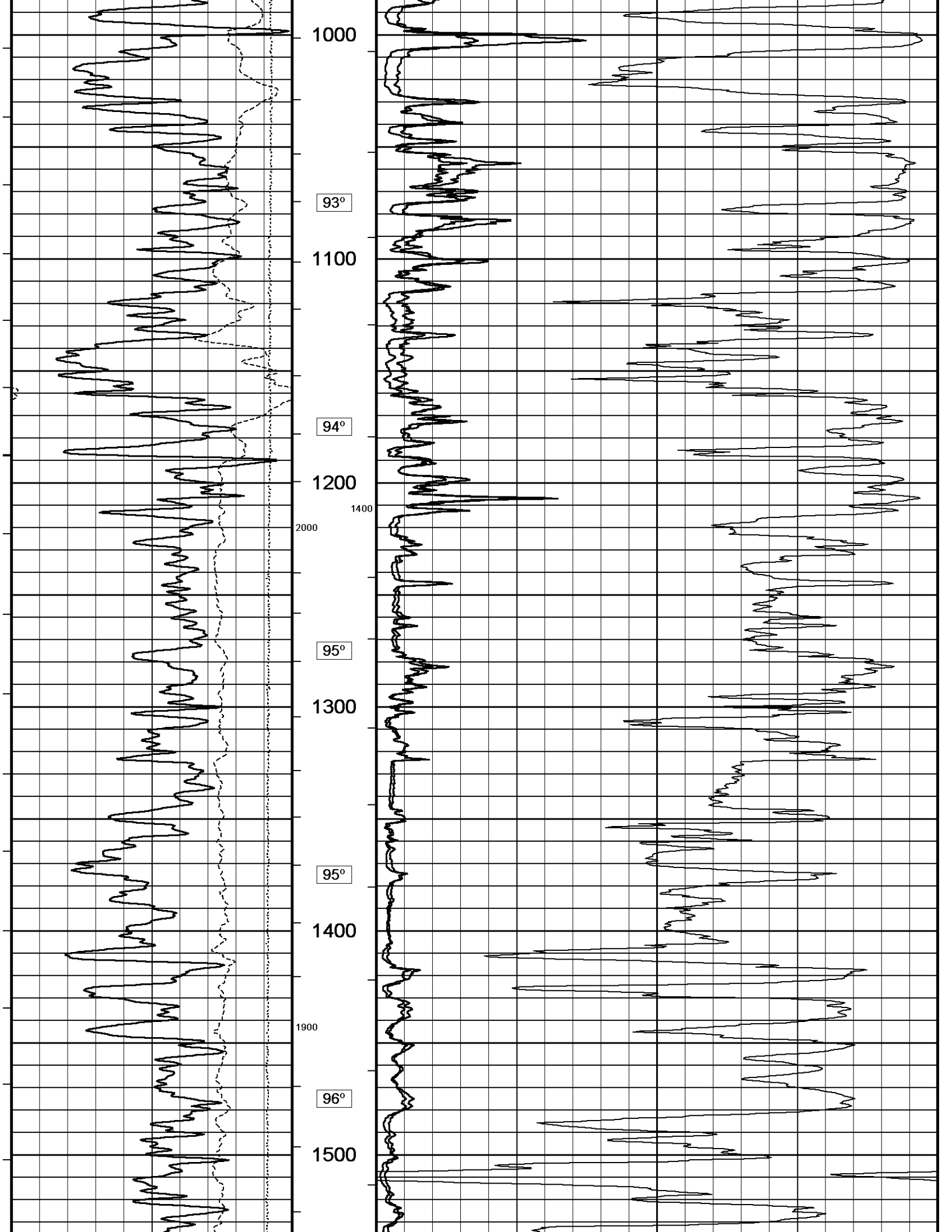
- OPERATOR: C. RAMIREZ

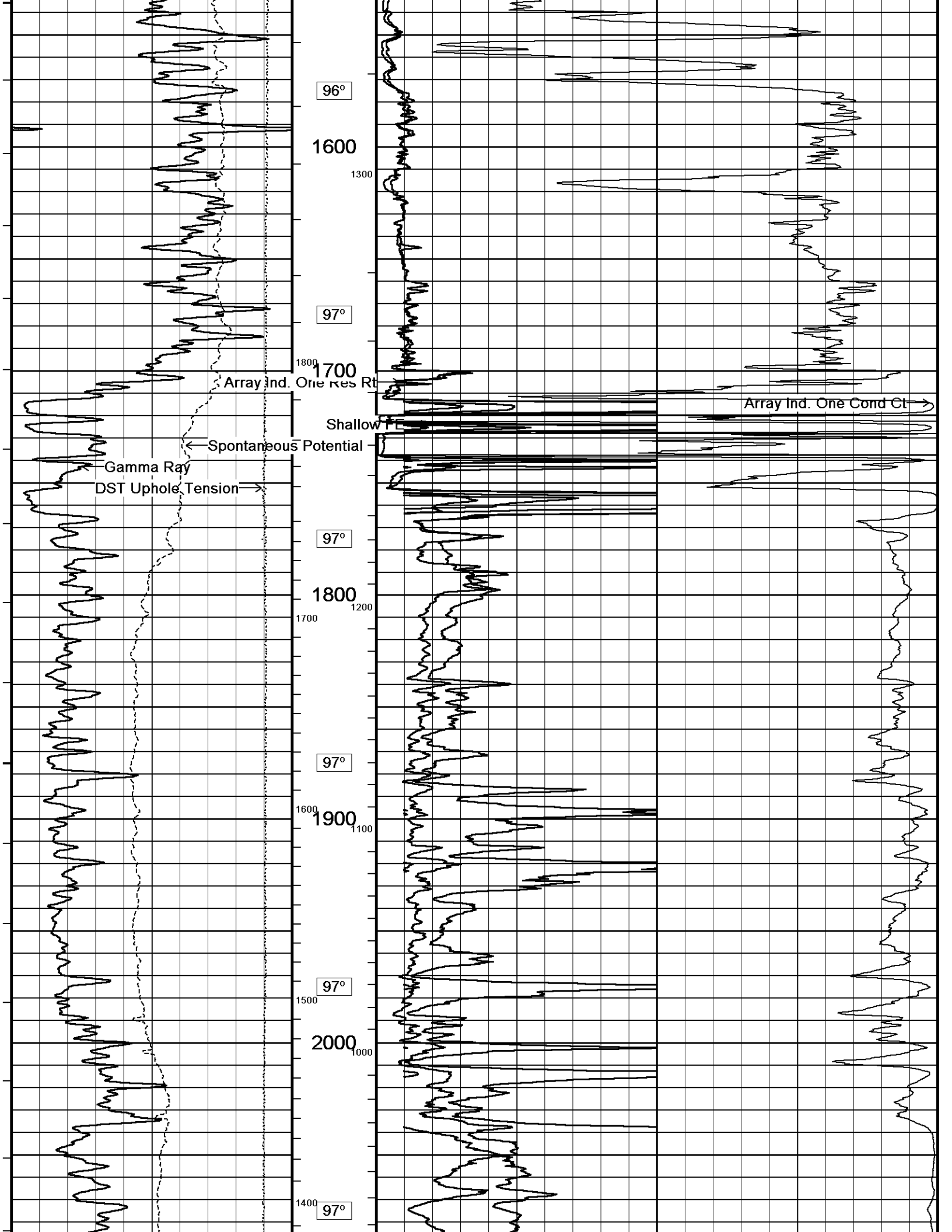
2 INCH MAIN

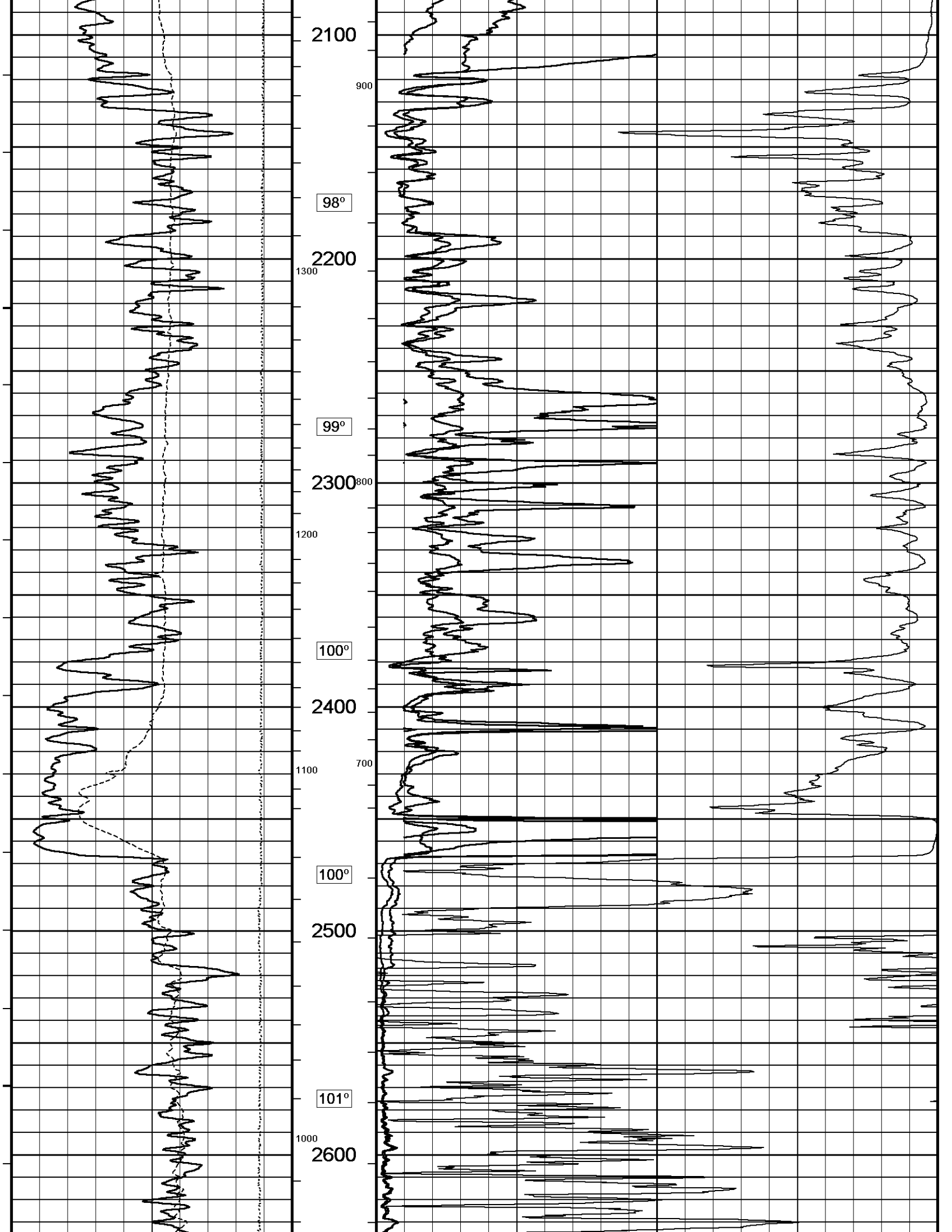
Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 07-SEP-2013 10:00
Filename: C:\Minimus 13.05.9583\Logs\Shakespeare Carson 1-26\Shakespeare Carson 1-26 MAIN.dta — Recorded on 07-SEP-2013 06:46
System Versions: Logged with 13.05.9583 Processed with 13.05.9583 Plotted with 13.05.9583

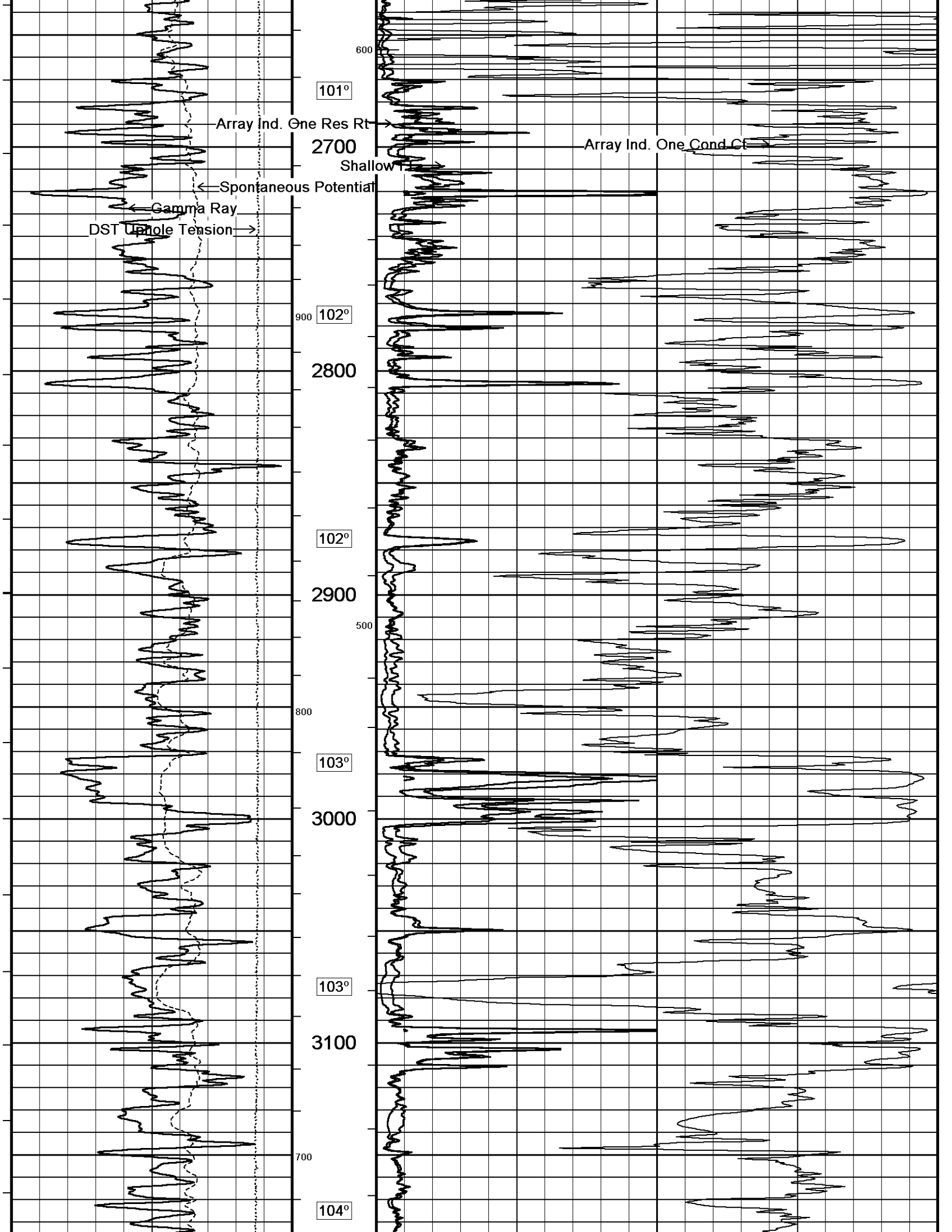


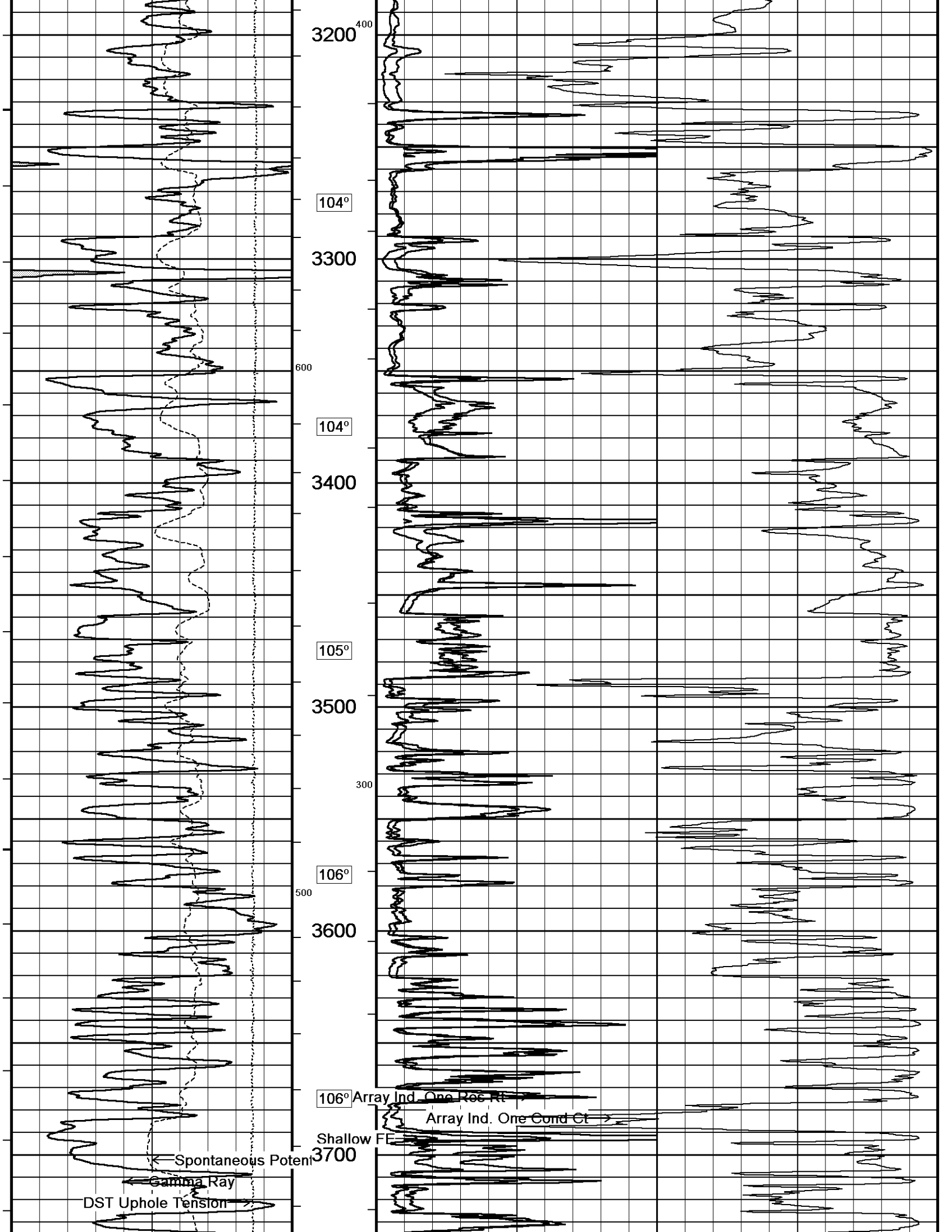

1600
89°
500
2300
90°
600
91°
700
Array Ind. One Res Rt
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension
92°
1500
800
Array Ind. One Cond Ct
93°
900
2100
93°

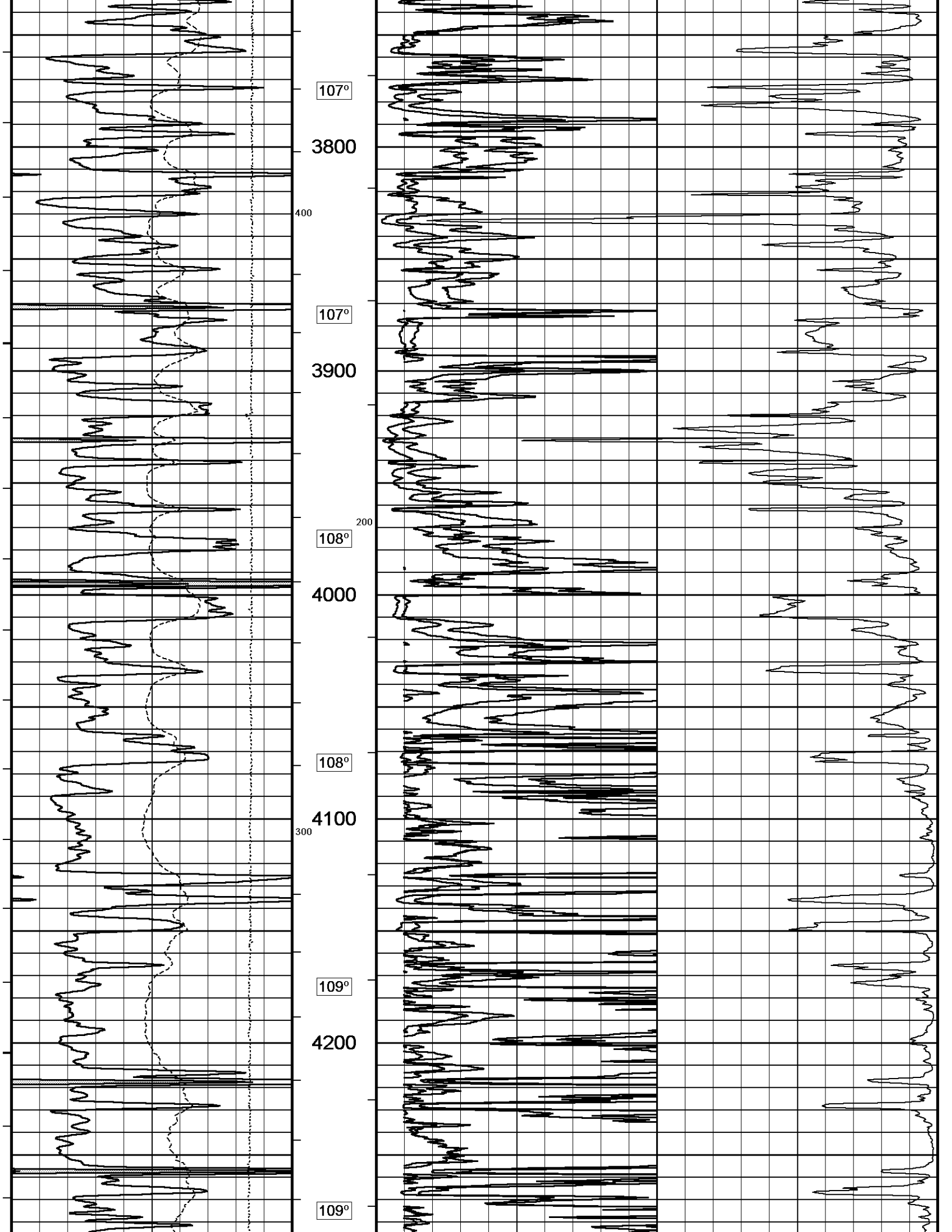

1000
93°
1100
94°
1200
1400
2000
95°
1300
95°
1400
1900
96°
1500

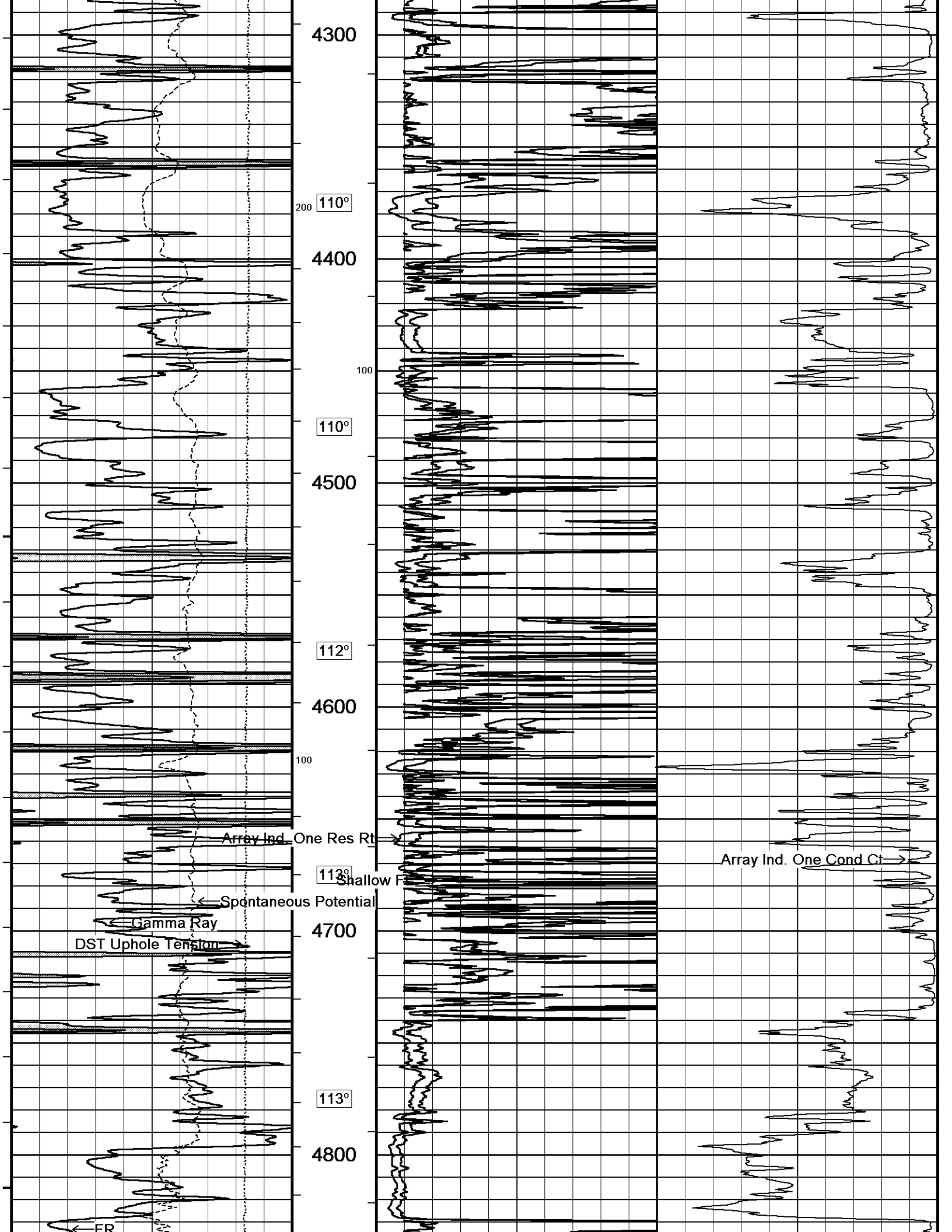

96°
1600
1300
97°
1800
1700
Array Ind. One Res Rt
Array Ind. One Cond Ct
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension
97°
1800
1200
1700
97°
1600
1900
1100
97°
1500
2000
1000
1400
97°

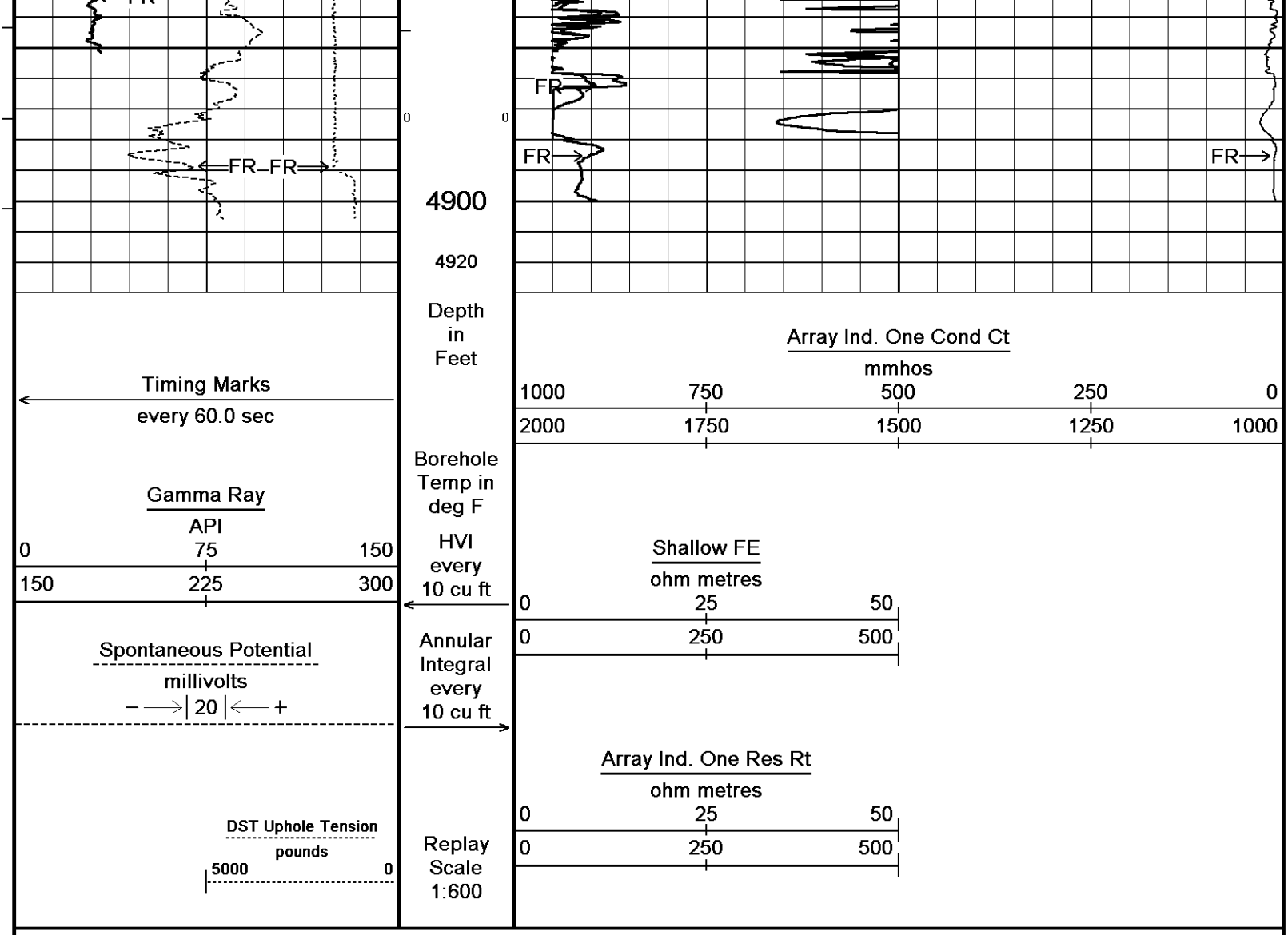

2100
900
98°
2200
1300
99°
2300
800
1200
100°
2400
700
1100
100°
2500
101°
1000
2600


Array Ind. One Res Rt
Array Ind. One Cond Ct
Shallow Ct
Spontaneous Potential
Gamma Ray
DST Uphole Tension
600
101°
2700
900
102°
2800
102°
2900
500
800
103°
3000
103°
3100
700
104°


3200
400
104°
3300
600
104°
3400
105°
3500
300
106°
500
3600
106°
Array Ind. One Rec Rt
Array Ind. One Cond Ct
Shallow FE
3700
Spontaneous Potent
Gamma Ray
DST Uphole Tension


107°
3800
400
107°
3900
200
108°
4000
108°
4100
300
109°
4200
109°


4300
200
110°
4400
100
110°
4500
112°
4600
100
Array Ind. One Res Rt
Array Ind. One Cond Ct
113°
Shallow F
Spontaneous Potential
Gamma Ray
4700
DST Uphole Tension
113°
4800
ER



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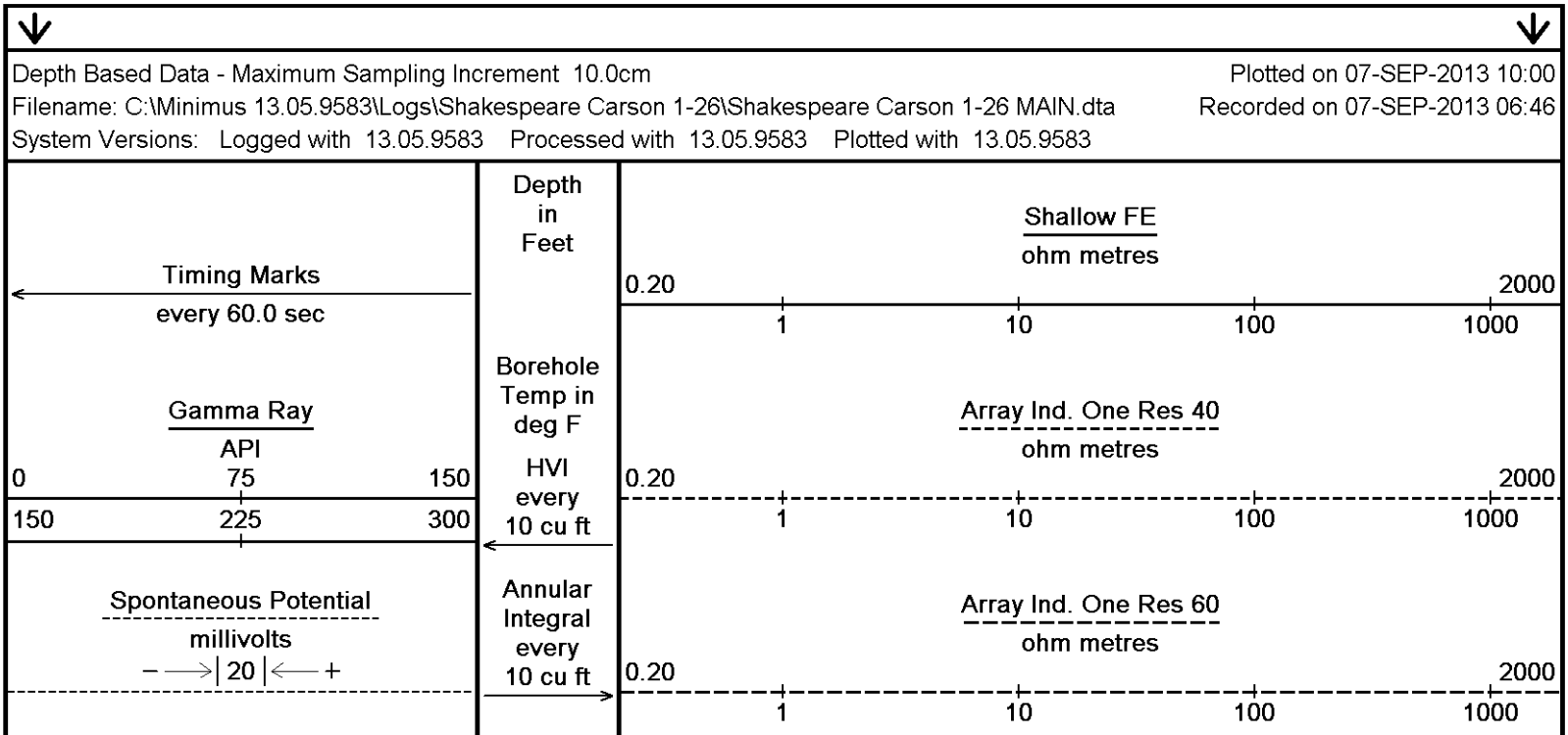
2 INCH MAIN



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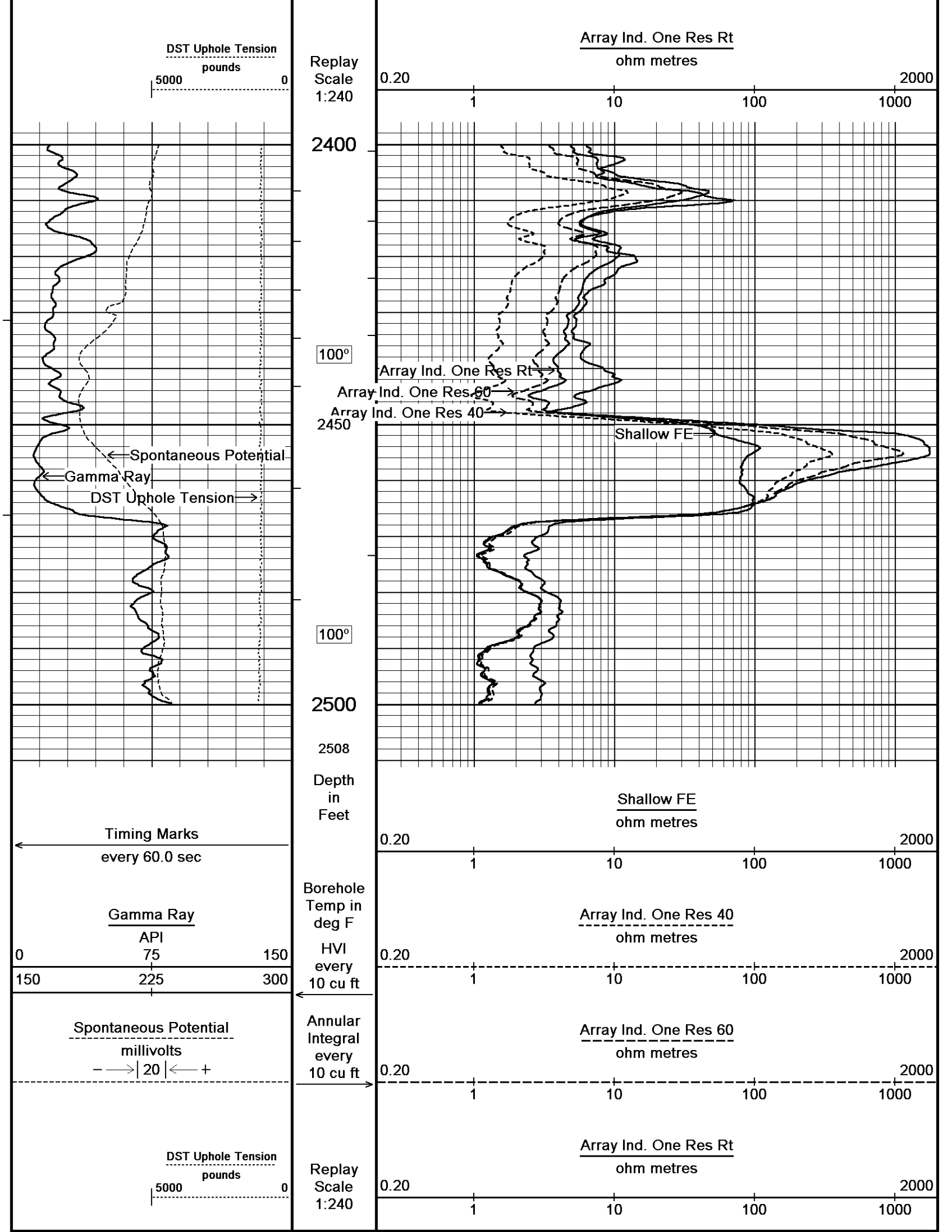
DST Uphole Tension
pounds
5000
0
Replay
Scale
1:240
Array Ind. One Res Rt
ohm metres
0.20
2000
1
10
100
1000
2400
100°
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
2450
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension
100°
2500
2508
Depth
in
Feet
Shallow FE
ohm metres
0.20
2000
1
10
100
1000
Timing Marks
every 60.0 sec
Borehole
Temp in
deg F
Gamma Ray
API
0
75
150
150
225
300
HVI
every
10 cu ft
Array Ind. One Res 40
ohm metres
0.20
2000
1
10
100
1000
Spontaneous Potential
millivolts
– 20 +
Annular
Integral
every
10 cu ft
Array Ind. One Res 60
ohm metres
0.20
2000
1
10
100
1000
DST Uphole Tension
pounds
5000
0
Replay
Scale
1:240
Array Ind. One Res Rt
ohm metres
0.20
2000
1
10
100
1000

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 07-SEP-2013 10:00
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5 INCH MAIN

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 07-SEP-2013 10:00
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Recorded on 07-SEP-2013 06:46
System Versions: Logged with 13.05.9583 Processed with 13.05.9583 Plotted with 13.05.9583

Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150
150 225 300

Spontaneous Potential
millivolts
− → | 20 | ← +

DST Uphole Tension
pounds
5000 0

Depth in Feet

Borehole Temp in deg F

HVI every 10 cu ft

Annular Integral every 10 cu ft

Replay Scale 1:240

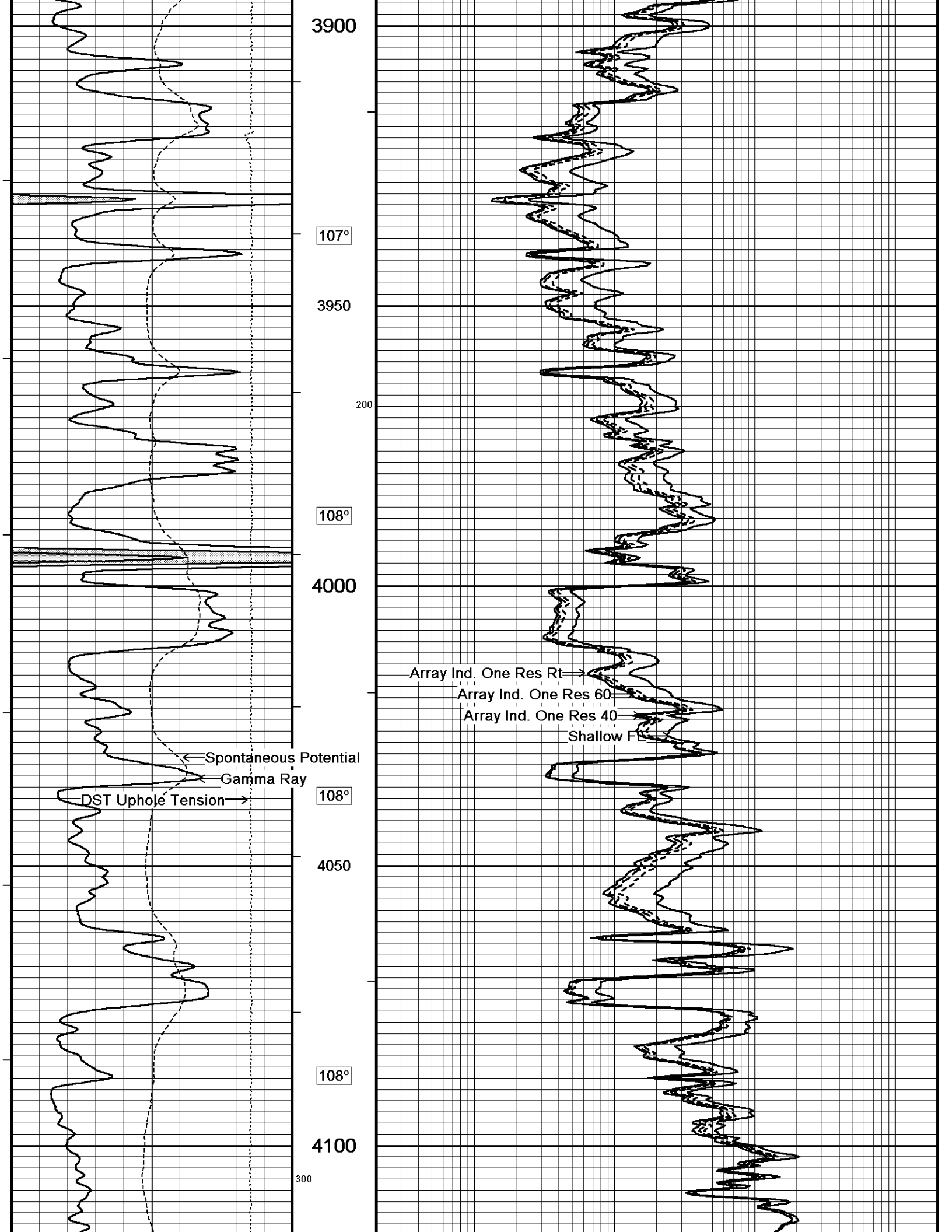
Shallow FE
ohm metres
0.20 2000
1 10 100 1000

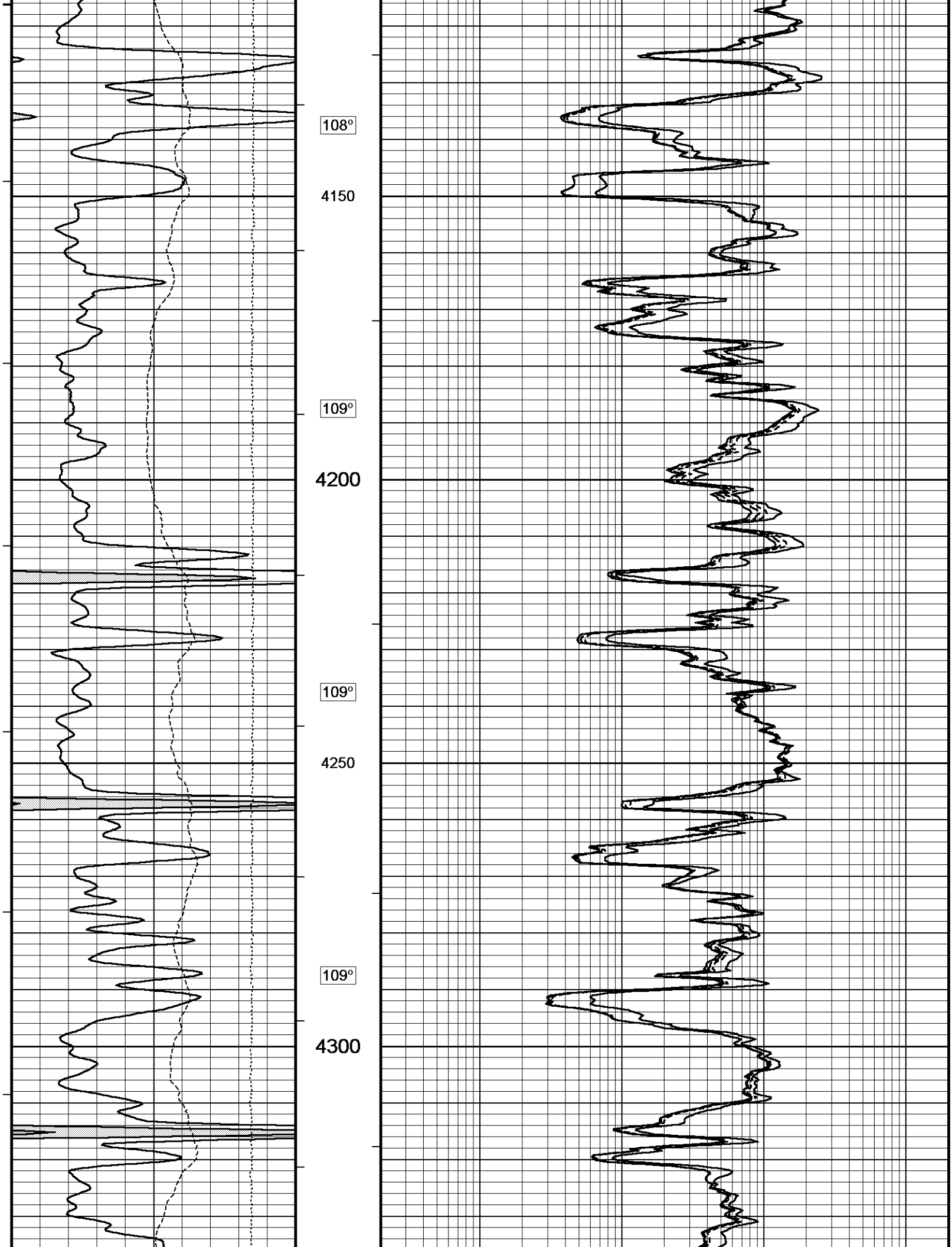
Array Ind. One Res 40
ohm metres
0.20 2000
1 10 100 1000

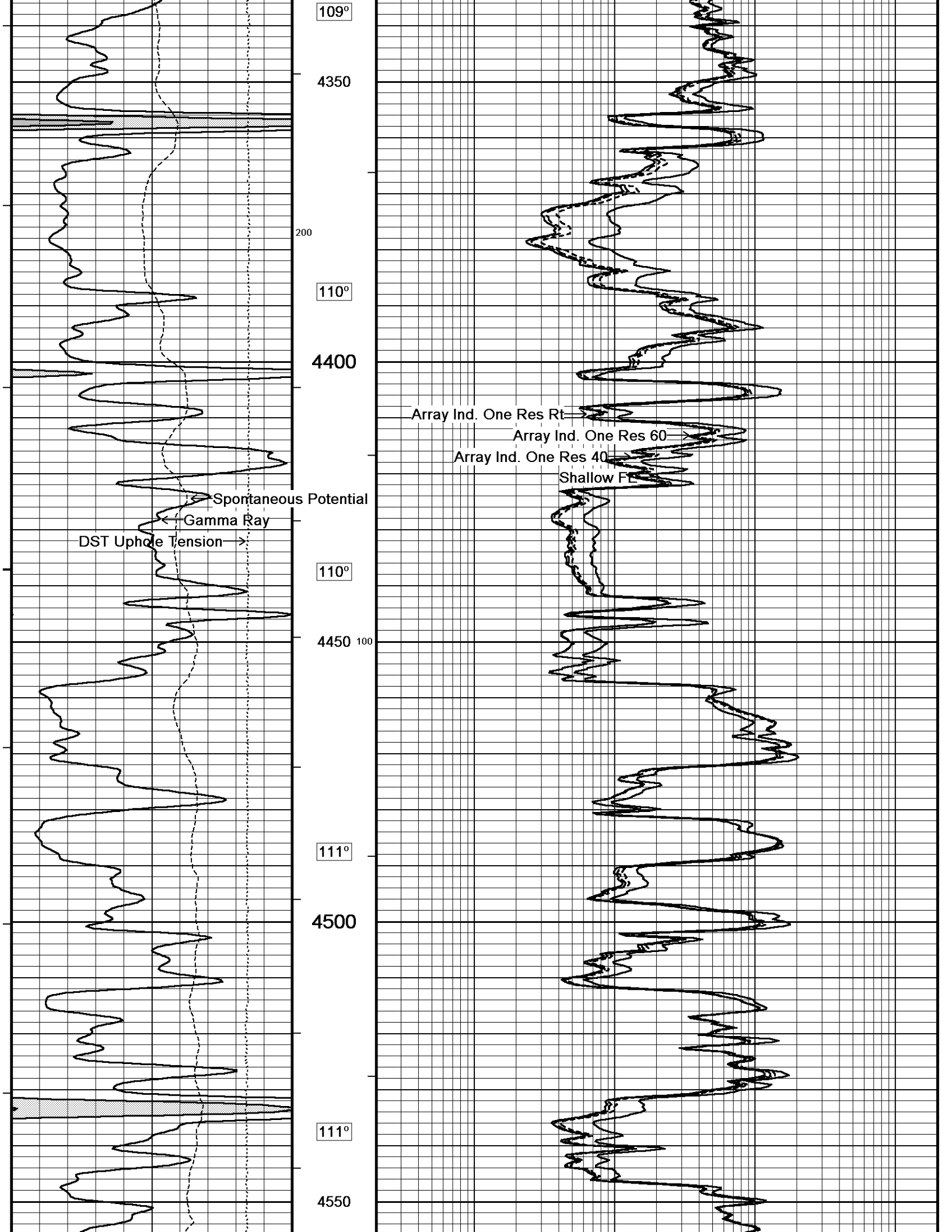
Array Ind. One Res 60
ohm metres
0.20 2000
1 10 100 1000

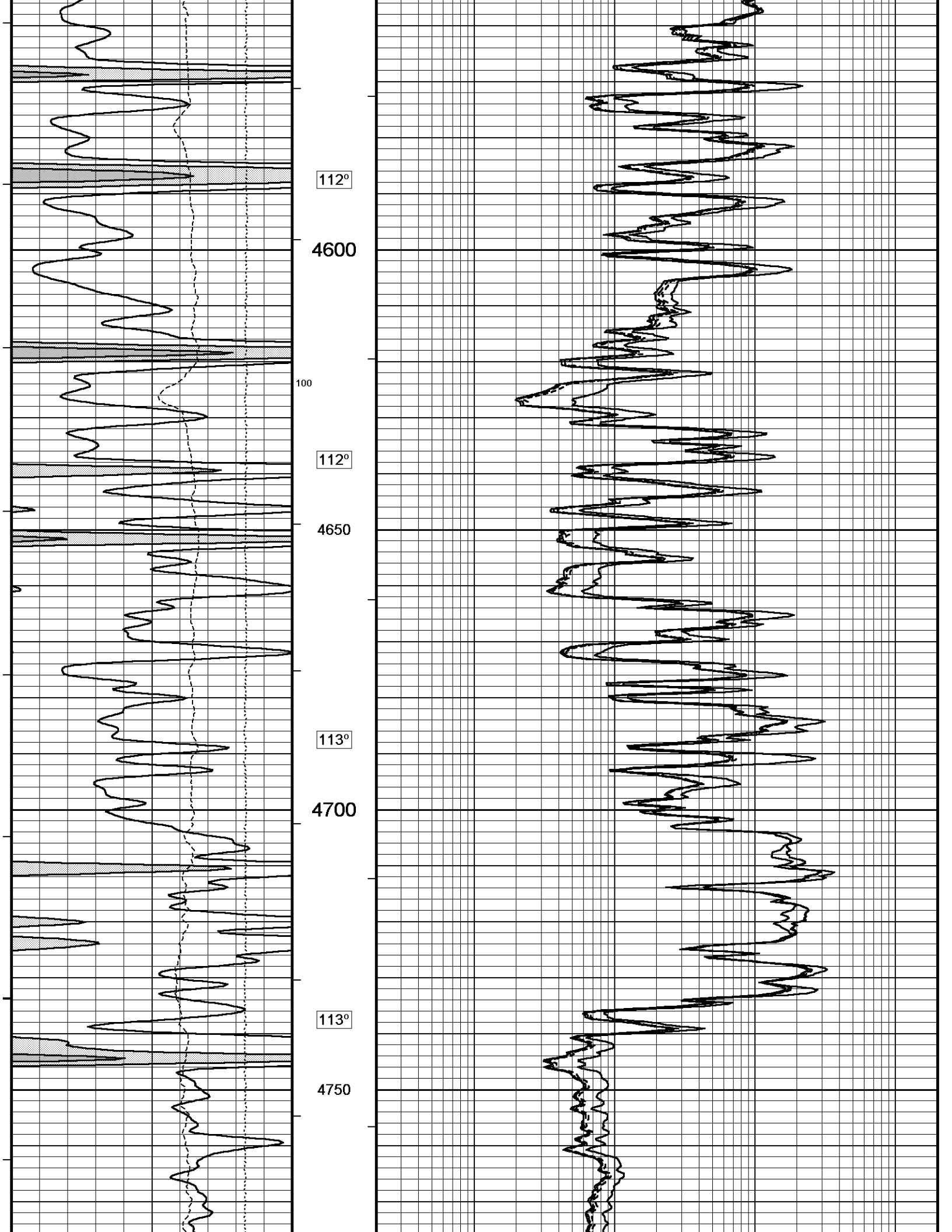
Array Ind. One Res Rt
ohm metres
0.20 2000
1 10 100 1000

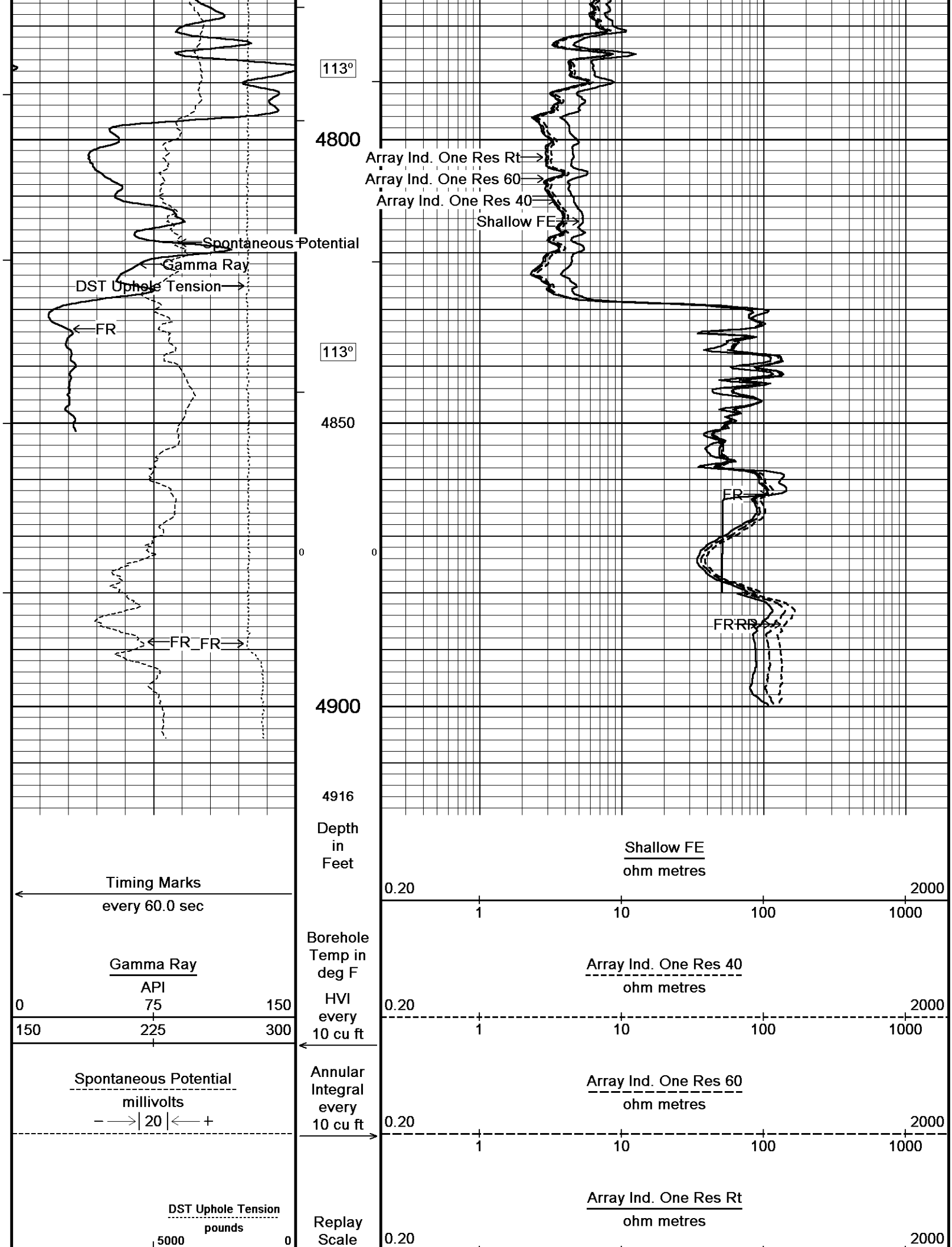
3800
400
107°
3850
107°


3900
107°
3950
200
108°
4000
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension
108°
4050
108°
4100
300


108°
4150
109°
4200
109°
4250
109°
4300


109°
4350
200
110°
4400
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Shallow Ft
Spontaneous Potential
Gamma Ray
DST Uphole Tension
110°
4450
100
111°
4500
111°
4550


112°
4600
100
112°
4650
113°
4700
113°
4750


113°
4800
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension
FR
113°
4850
0
0
FR
FR RR
FR FR
4900
4916
Depth in Feet
Timing Marks
every 60.0 sec
Shallow FE
ohm metres
0.20
1
10
100
1000
2000
Borehole Temp in deg F
Gamma Ray
API
0
75
150
150
225
300
HVI every 10 cu ft
Array Ind. One Res 40
ohm metres
0.20
1
10
100
1000
2000
Spontaneous Potential
millivolts
– 20 +
Annular Integral every 10 cu ft
Array Ind. One Res 60
ohm metres
0.20
1
10
100
1000
2000
DST Uphole Tension
pounds
5000
0
Replay Scale
Array Ind. One Res Rt
ohm metres
0.20
2000

1:240

1 10 100 1000

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5 INCH MAIN

REPEAT SECTION

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 07-SEP-2013 10:00
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Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150
150 225 300

Spontaneous Potential
millivolts
− → | 20 | ← +

DST Uphole Tension
pounds
5000 0

Depth in Feet

Borehole Temp in deg F

HVI every 10 cu ft

Annular Integral every 10 cu ft

Replay Scale 1:240

Shallow FE
ohm metres
0.20 2000
1 10 100 1000

Array Ind. One Res 40
ohm metres
0.20 2000
1 10 100 1000

Array Ind. One Res 60
ohm metres
0.20 2000
1 10 100 1000

Array Ind. One Res Rt
ohm metres
0.20 2000
1 10 100 1000

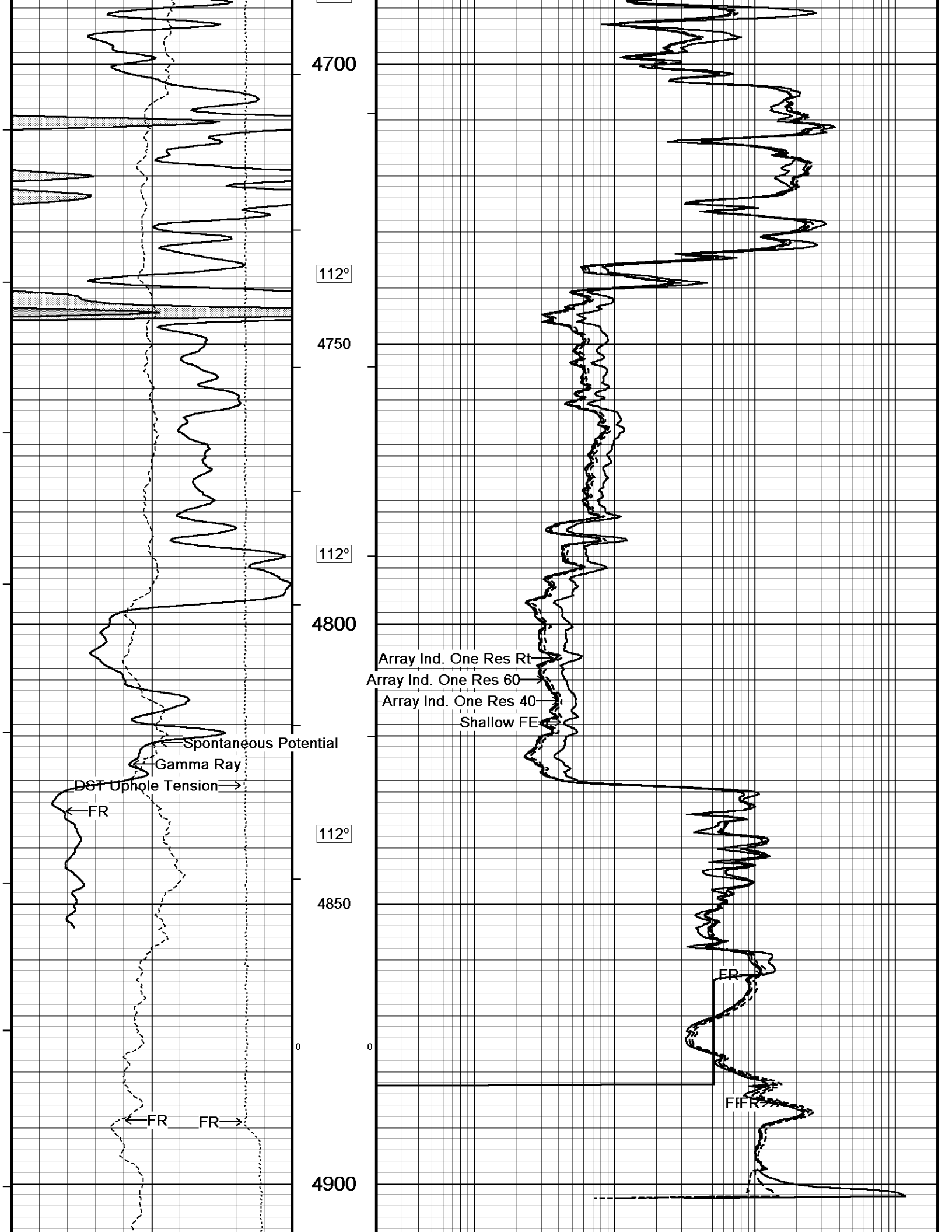
4600

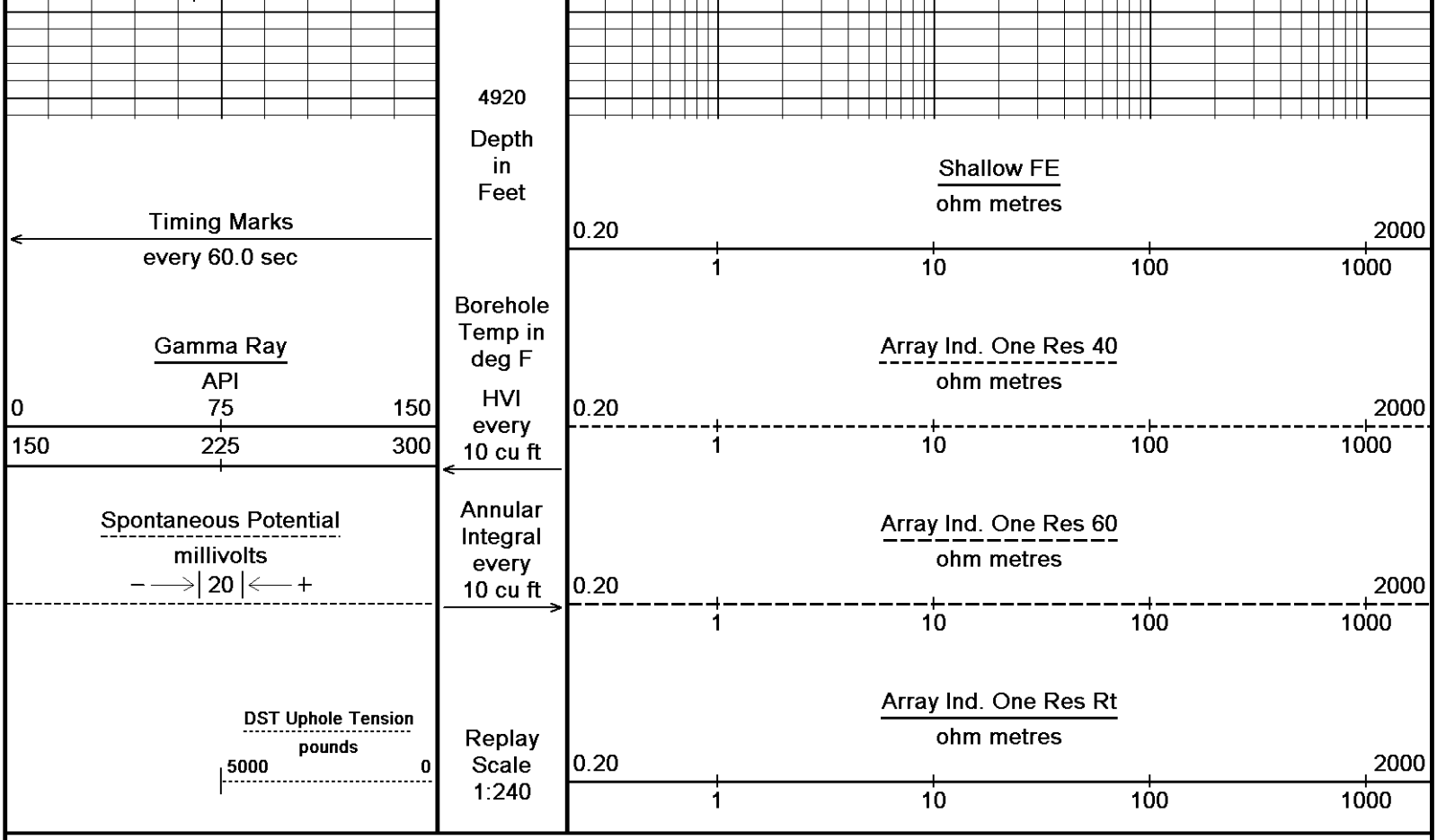
100

112°

4650

112°


4700
112°
4750
112°
4800
112°
4850
0
0
4900
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension
FR
FR
FR
ER
FR



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 07-SEP-2013 10:00

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REPEAT SECTION

BEFORE SURVEY CALIBRATION

C:\Minimus 13.05.9583\Logs\Shakespeare Carson 1-26\Shakespeare Carson 1-26 REPEAT.dta

General Constants All 000

Last Edited on 07-SEP-2013,05:52

General Parameters		
Mud Resistivity	0.300	ohm-metres
Mud Resistivity Temperature	91.000	degrees F
Water Level	0.000	feet
Borehole Fluid 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	5.500	inches
Caliper for Differential Caliper	MML Caliper	
Rwa Parameters		
Porosity used	Crossplot Porosity	
Resistivity used	Array Ind. One Res Rt	
RWA Constant A	1.000	
RWA Constant M	2.000	
SW/APOR Tool Source	0.000	

Gamma Calibration MCG-D.K 443

Field Calibration on 28-AUG-2013 04:17

	Measured	Calibrated (API)
Background	53	36
Calibrator (Gross)	1112	761
Calibrator (Net)	1059	725

Gamma Constants MCG-D.K 443

Last Edited on 07-SEP-2013,05:52

Gamma Calibrator Number	GRC38	
Mud Density	1.09	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl		kppm
K Mud Type	Chloride	
K Mud Concentration	0.00	%

High Resolution Temperature Calibration MCG-D.K 443

Field Calibration on 28-AUG-2013,04:08

	Measured	Calibrated(Deg F)
Lower	50.00	50.00
Upper	75.00	75.00

High Resolution Temperature Constants MCG-D.K 443

Last Edited on 28-AUG-2013,04:08

Pre-filter Length	11

FE Calibration MFE-A.A 55

Base Calibration on 16-AUG-2013 08:59
Field Check on 28-AUG-2013 03:57

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	950.9	126.8
Base Check		281.6
Field Check		281.7

FE Constants MFE-A.A 55

Last Edited on 07-SEP-2013,05:52

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 28-AUG-2013,08:48
Field Check on 28-AUG-2013,09:29

Base Calibration

Test Loop Calibration

Channel	Measured Low	Measured High	Calibrated (mmho/m) Low	Calibrated (mmho/m) 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) Low	Base Check (mmho/m) High	Field Check (mmho/m) Low	Field Check (mmho/m) High	
1			12.8	3763.8	
2			29.8	3468.0	
3			27.3	3014.6	
4			18.8	2065.2	
Deep			16.0	1995.4	
Medium			40.3	3955.8	
Shallow			45.7	5083.6	
Array Temperature	0.0		81.0		Deg F

Induction Constants MAI-A.A 178

Last Edited on 07-SEP-2013,05:52

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	

Caliper Calibration MPD-B 59

Base Calibration on 23-AUG-2013 11:17
Field Calibration on 06-SEP-2013,15:20

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	16284	3.99
2	23984	5.98
3	31584	7.97
4	39888	9.86
5	49152	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.93	7.77

DOWNHOLE EQUIPMENT

C:\Minimus 13.05.9583\Logs\Shakespeare Carson 1-26\Shakespeare Carson 1-26 REPEAT.dta

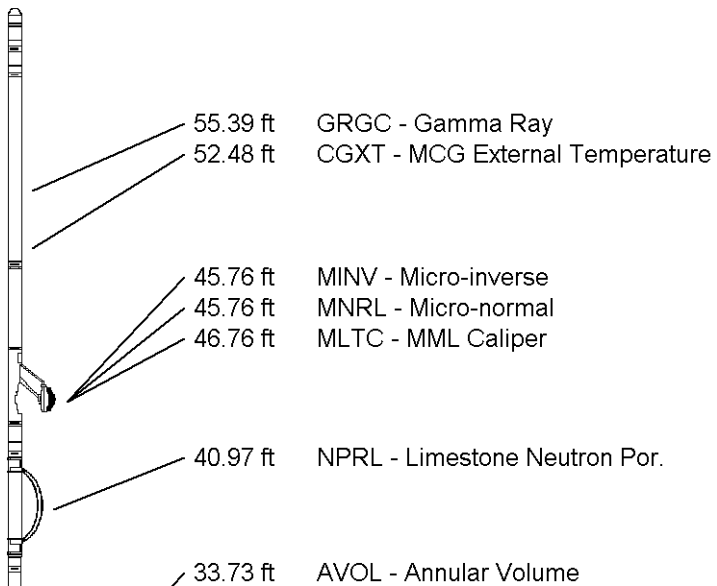
CBH-C, Cablehead, 11 pin
CBH-C 0 LG: 2.40 ft WT: 24.3 lb OD: 2.24 in

Compact Comms Gamma
MCG-D.K 443 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Micro-log
MML-A 16 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 Density/Caliper



55.39 ft GRGC - Gamma Ray
52.48 ft CGXT - MCG External Temperature
45.76 ft MINV - Micro-inverse
45.76 ft MNRL - Micro-normal
46.76 ft MLTC - MML Caliper
40.97 ft NPRL - Limestone Neutron Por.
33.73 ft AVOL - Annular Volume

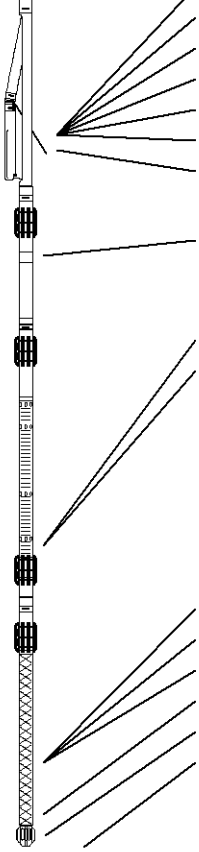
MPD-B 59 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

Compact Focussed Electric
MFE-A.A 55 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Sonic
MSS-A.A 126 LG: 12.52 ft WT: 72.8 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: 63.07 ft Weight: 480.6 lb



33.73 ft HVOL - Hole Volume
33.73 ft CLDC - Density Caliper
31.80 ft DPRL - Limestone Density Por.
31.80 ft DEN - Compensated Density
31.80 ft DCOR - Densitv Correction
31.74 ft PDPE - PE

26.24 ft FEFE - Shallow FE

12.96 ft DT35 - 3-5' Compensated Sonic
12.96 ft SPRL - Wyllie Lime. Sonic Por.

3.34 ft R40O - Array Ind. One Res 40
3.34 ft RTAO - Array Ind. One Res Rt
3.34 ft R60O - Array Ind. One Res 60
0.23 ft SPCG - Spontaneous Potential
Tool Zero (0.13ft from bottom)
-0.13 ft SMTU - DST Uphole Tension
All measurements relative to tool zero.

COMPANY	SHAKESPEARE OIL CO. INC
WELL	CARSON 1-26
FIELD	PENCE EAST
PROVINCE/COUNTY	SCOTT
COUNTRY/STATE	U.S.A. / KANSAS

Elevation Kelly Bushing	3124.00	feet	First Reading	4886.00	feet
Elevation Drill Floor	3122.00	feet	Depth Driller	4890.00	feet
Elevation Ground Level	3114.00	feet	Depth Logger	4889.00	feet

Weatherford®

ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

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COMPANY SHAKESPEARE OIL CO. INC
WELL CARSON 1-26
FIELD PENCE EAST
PROVINCE/COUNTY SCOTT
COUNTRY/STATE U.S.A. / KANSAS
LOCATION 649' FNL & 1371' FEL
SE NE NW NE

SEC 26 | TWP 16S | RGE 34W | Other Services: MFDMDN

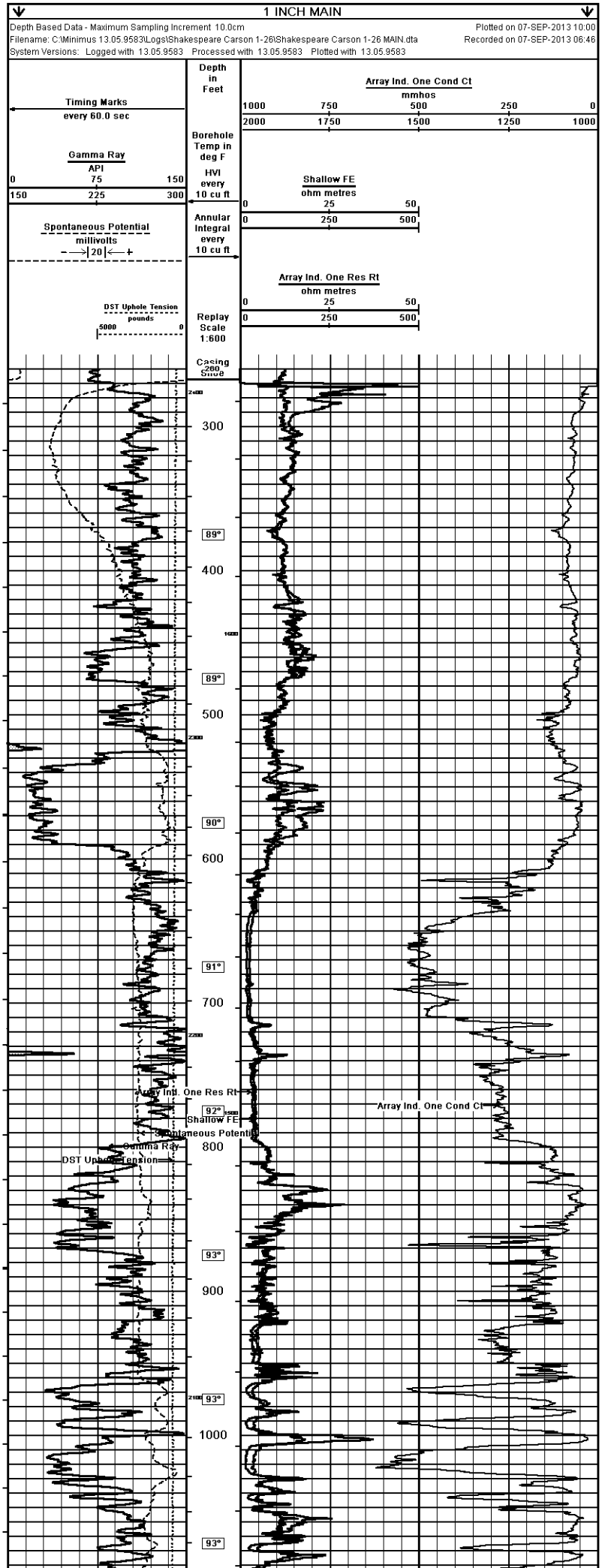
API Number
Permt Number 15-171-20969

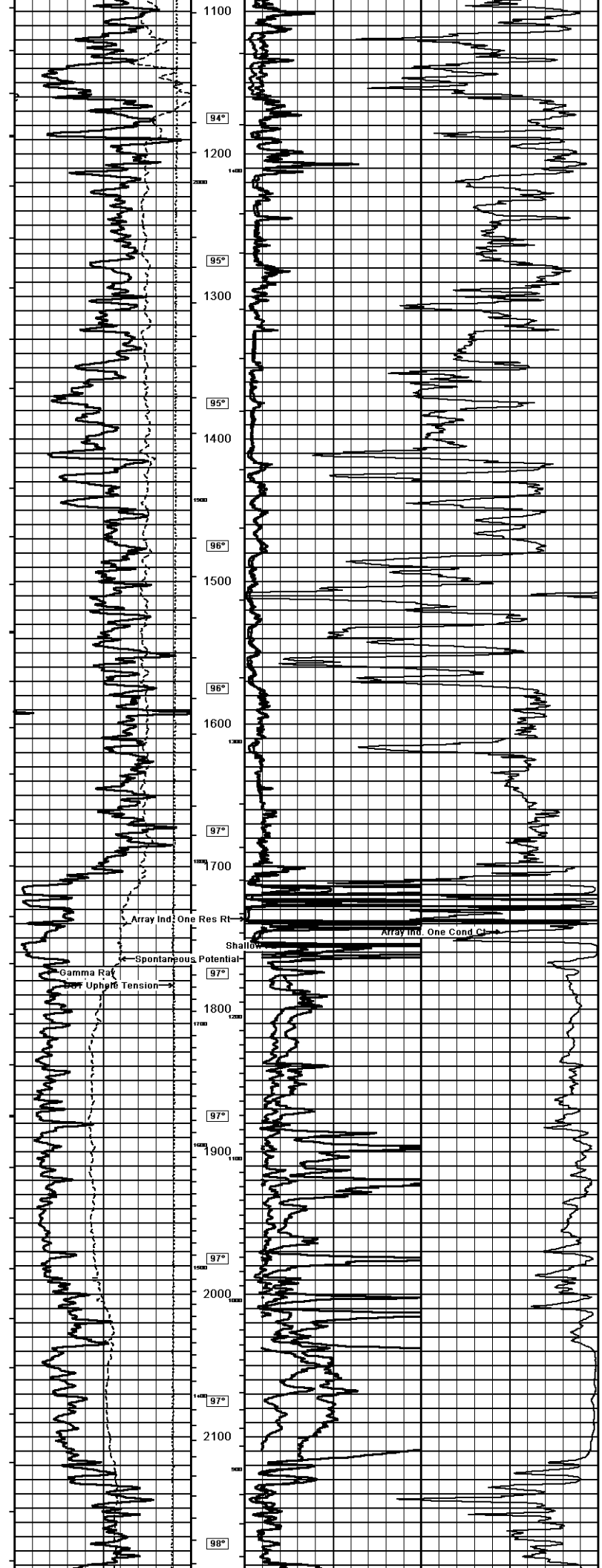
Permanent Datum GL Elevation 3114 feet
Log Measured From KB
Drilling Measured From KB AT 10 FEET

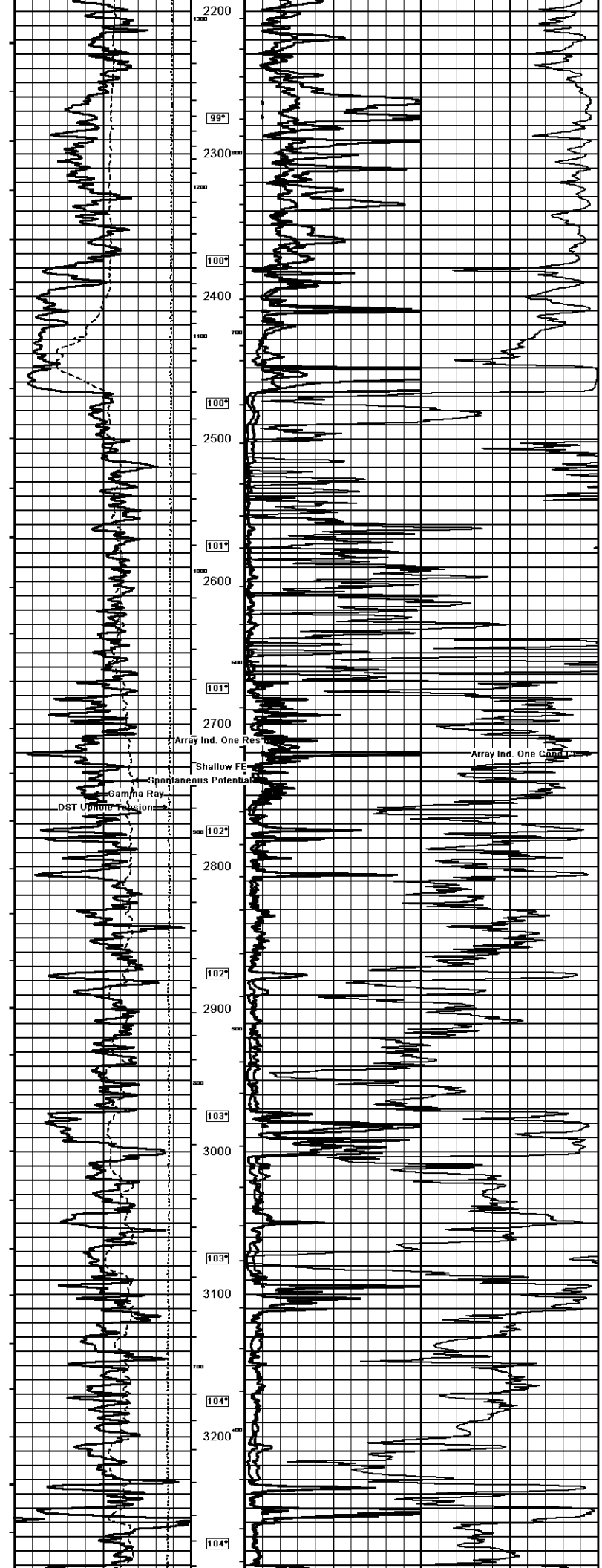
MML
MSS

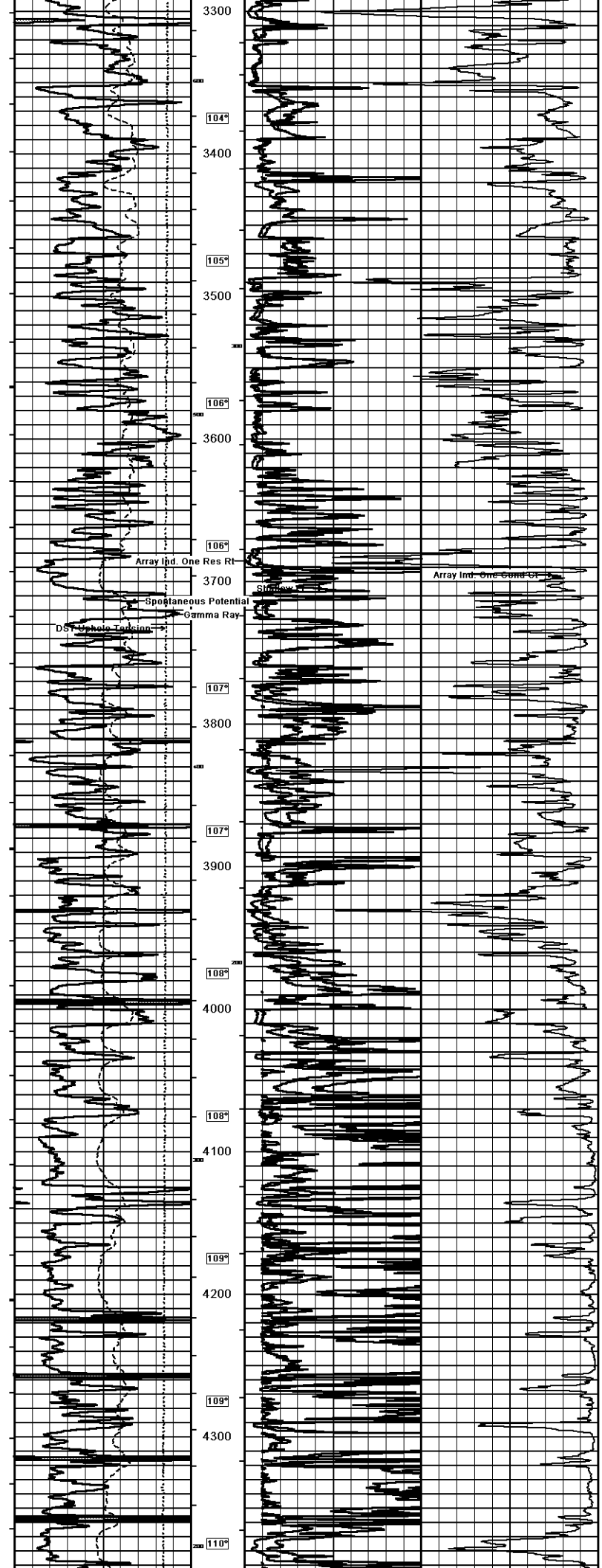
Elevations: KB 3124.00 feet, DF 3122.00, GL 3114.00

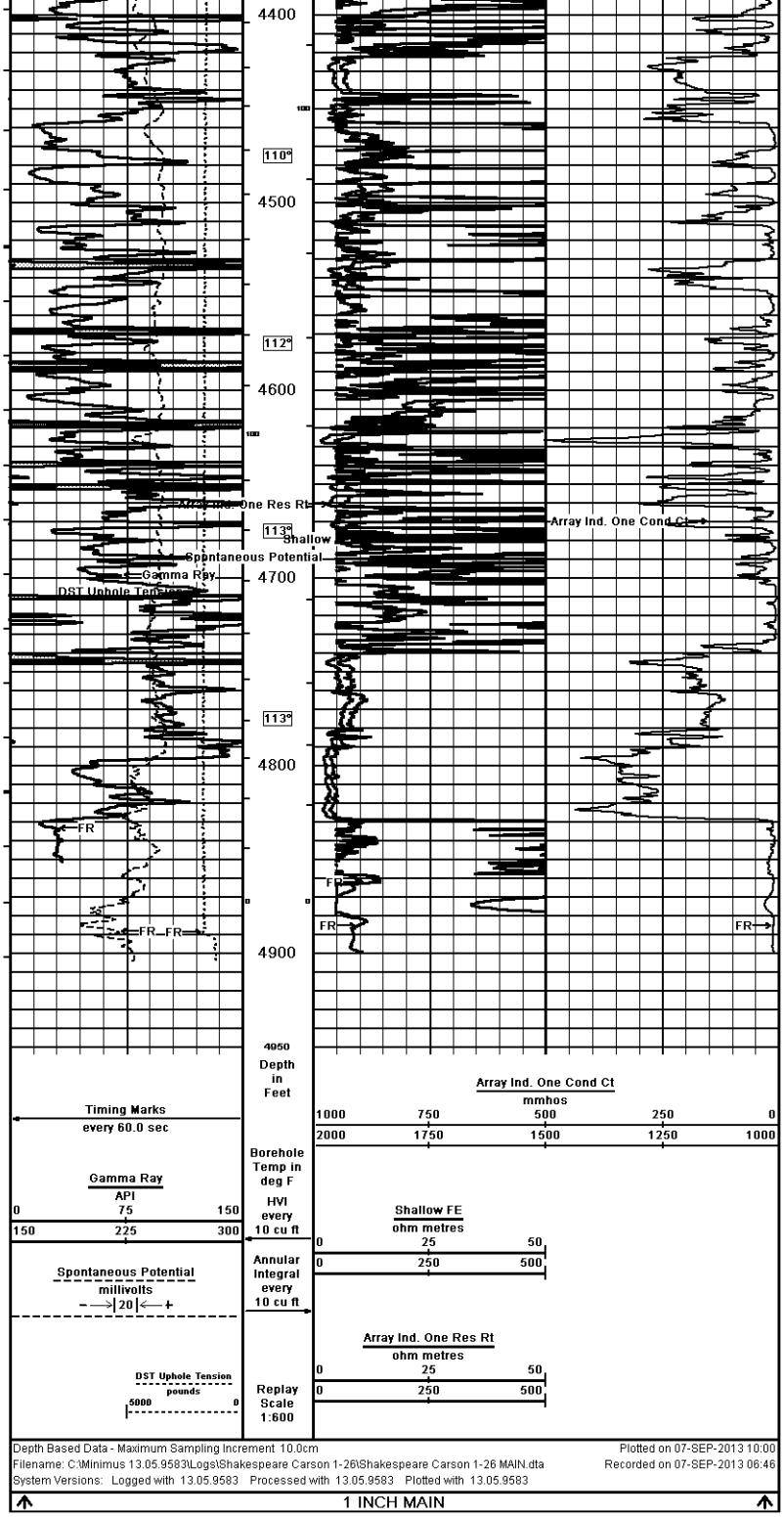
Date	07-SEP-2013		
Run Number	ONE		
Service Order	3541037		
Depth Driller	4890.00	feet	
Depth Logger	4889.00	feet	
First Reading	4886.00	feet	
Last Reading	267.00	feet	
Casing Driller	267.00	feet	
Casing Logger	267.00	feet	
Bit Size	7.875	inches	
Hole Fluid Type	CHEM		
Density / Viscosity	9.10 lbm/USg	60.00 CP	
PH / Fluid Loss	10.00	10.80 ml/30Min	
Sample Source	PIT		
Rm @ Measured Temp	0.30 @ 91.0	ohm-m	
Rmf @ Measured Temp	0.24 @ 91.0	ohm-m	
Rmc @ Measured Temp	0.36 @ 91.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.24 @113.0	ohm-m	
Time Since Circulation	4 HRS		
Max Recorded Temp	113.00	deg F	
Equipment / Base	13244	KANSAS	
Recorded By	D. COLE		
Witnessed By	S. DAVIS		
JOB#	LB13 - 251		


1 INCH MAIN
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 07-SEP-2013 10:00
Filename: C:\Minimus 13.05.9583\Logs\Shakespeare Carson 1-26\Shakespeare Carson 1-26 MAIN.dta
Recorded on 07-SEP-2013 06:46
System Versions: Logged with 13.05.9583 Processed with 13.05.9583 Plotted with 13.05.9583
Depth in Feet
Timing Marks every 60.0 sec
Gamma Ray API 0 75 150 150 225 300
Spontaneous Potential millivolts -→|20|←+
DST Uphole Tension pounds 5000 0
Borehole Temp in deg F
HVI every 10 cu ft
Annular Integral every 10 cu ft
Replay Scale 1:600
Array Ind. One Cond Ct mmhos 1000 750 500 250 0 2000 1750 1500 1250 1000
Shallow FE ohm metres 0 25 50 0 250 500
Array Ind. One Res Rt ohm metres 0 25 50 0 250 500
Casing Shoe 260
300
89°
400
89°
500
90°
600
91°
700
92°
Array Ind. One Res Rt
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension
800
93°
900
93°
1000
93°
Array Ind. One Cond Ct


1100
94°
1200
95°
1300
95°
1400
96°
1500
96°
1600
97°
1700
Array Ind. One Res Rt
Array Ind. One Cond Ct
Shallow
Spontaneous Potential
Gamma Ray
Cbrt Uphole Tension
97°
1800
97°
1900
97°
2000
97°
2100
99°


2200
99°
2300
100°
2400
100°
2500
101°
2600
101°
2700
Array Ind. One Res
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Ind. One Cond
102°
2800
102°
2900
103°
3000
103°
3100
104°
3200
104°


3300
104"
3400
105"
3500
106"
3600
106"
Array Ind. One Res Rt
3700
Spontaneous Potential
Gamma Ray
DST Uphole Torsion
107"
3800
107"
3900
108"
4000
108"
4100
109"
4200
109"
4300
110"



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 07-SEP-2013 10:00

Filename: C:\Minimus 13.05.9583\Logs\Shakespeare Carson 1-26\Shakespeare Carson 1-26 MAIN.dta — Recorded on 07-SEP-2013 06:46

System Versions: Logged with 13.05.9583 Processed with 13.05.9583 Plotted with 13.05.9583

1 INCH MAIN

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