KOLAR Document ID: 1793273

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form CP-1
March 2010
**This Form must be Typed**
**Form must be Signed**
**All blanks must be Filled**

# WELL PLUGGING APPLICATION

***Form KSONA-1, Certification of Compliance with the Kansas Surface Owner Notification Act, MUST be submitted with this form.***

OPERATOR: License #: 7311
Name: Shakespeare Oil Co., Inc.
Address 1: 202 W MAIN ST
Address 2:
City: SALEM State: IL Zip: 62881 + 1519
Contact Person: Jeff Scarbrough
Phone: ( 618 ) 214-1747

API No. 15 - 15-171-20972-00-00
If pre 1967, supply original completion date:
Spot Description:
SW SW NW NW Sec. 27 Twp. 16 S. R. 34 ☐ East ☑ West
4068 Feet from ☐ North / ☑ South Line of Section
4965 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
County: Scott
Lease Name: STOLL COMM. Well #: 1-27

Check One: ☑ Oil Well ☐ Gas Well ☐ OG ☐ D&A ☐ Cathodic ☐ Water Supply Well ☐ Other:
☐ SWD Permit #: ☐ ENHR Permit #: ☐ Gas Storage Permit #:

Conductor Casing Size: Set at: Cemented with: Sacks
Surface Casing Size: Set at: 267 Cemented with: 180 Sacks
Production Casing Size: Set at: 4865 Cemented with: 205 Sacks

List *(ALL)* Perforations and Bridge Plug Sets:
Attached

Elevation: 3129 ( ☑ G.L. / ☐ K.B.) T.D.: 4868 PBTD: 4814 Anhydrite Depth: 2462
*(Stone Corral Formation)*

Condition of Well: ☑ Good ☐ Poor ☐ Junk in Hole ☐ Casing Leak at: -
*(Interval)*

Proposed Method of Plugging *(attach a separate page if additional space is needed)*:
Per KCC Instructions

Is Well Log attached to this application? ☐ Yes ☐ No Is ACO-1 filed? ☑ Yes ☐ No
If ACO-1 not filed, explain why:

**Plugging of this Well will be done in accordance with K.S.A. 55-101 et. seq. and the Rules and Regulations of the State Corporation Commission**

Company Representative authorized to supervise plugging operations: Charlie Bauer
Address: 202 W. Main St City: Salem State: Illinois Zip: 62881 +
Phone: ( 785 ) 798-7490
Plugging Contractor License #: 32970 Name: H-D Oilfield Service, Inc.
Address 1: PO BOX 87 Address 2:
City: BAZINE State: KS Zip: 67516 + 0087
Phone: ( 785 ) 798-7677
**Proposed Date of Plugging** *(if known)*: 9/11/2024

**Payment of the Plugging Fee (K.A.R. 82-3-118) will be guaranteed by Operator or Agent**

Submitted Electronically

KOLAR Document ID: 1793273

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form KSONA-1
July 2021
Form Must Be Typed
Form must be Signed
All blanks must be Filled

# CERTIFICATION OF COMPLIANCE WITH THE KANSAS SURFACE OWNER NOTIFICATION ACT

*This form must be submitted with all Forms C-1 (Notice of Intent to Drill); CB-1 (Cathodic Protection Borehole Intent); T-1 (Request for Change of Operator Transfer of Injection or Surface Pit Permit); and CP-1 (Well Plugging Application). Any such form submitted without an accompanying Form KSONA-1 will be returned.*

**Select the corresponding form being filed:** ☐ **C-1** (Intent) ☐ **CB-1** (Cathodic Protection Borehole Intent) ☐ **T-1** (Transfer) ☒ **CP-1** (Plugging Application)

OPERATOR: License # 7311
Name: Shakespeare Oil Co., Inc.
Address 1: 202 W MAIN ST
Address 2:
City: SALEM State: IL Zip: 62881 + 1519
Contact Person: Jeff Scarbrough
Phone: ( 618 ) 214-1747 Fax: ( 618 ) 548-1594
Email Address: jeff@shakespeare-oil.com

Well Location:
SW SW NW NW Sec. 27 Twp. 16 S. R. 34 ☐ East ☒ West
County: Scott
Lease Name: STOLL COMM. Well #: 1-27

*If filing a Form T-1 for multiple wells on a lease, enter the legal description of the lease below:*

***Surface Owner Information:***
Name: Lorraine Stoll
Address 1: Clermont Park Senior Living Community
Address 2: 2479 S. Clermont St., Apt 224B
City: Denver State: Colorado Zip: 80222 + _ _ _ _

*When filing a Form T-1 involving multiple surface owners, attach an additional sheet listing all of the information to the left for each surface owner. Surface owner information can be found in the records of the register of deeds for the county, and in the real estate property tax records of the county treasurer.*

*If this form is being submitted with a Form C-1 (Intent) or CB-1 (Cathodic Protection Borehole Intent), you must supply the surface owners and the KCC with a plat showing the predicted locations of lease roads, tank batteries, pipelines, and electrical lines. The locations shown on the plat are preliminary non-binding estimates. The locations may be entered on the Form C-1 plat, Form CB-1 plat, or a separate plat may be submitted.*

***Select one of the following:***

☒ I certify that, pursuant to the Kansas Surface Owner Notice Act (*see* Chapter 55 of the Kansas Statutes Annotated), I have provided the following to the surface owner(s) of the land upon which the subject well is or will be located: 1) a copy of the Form C-1, Form CB-1, Form T-1, or Form CP-1 that I am filing in connection with this form; 2) if the form being filed is a Form C-1 or Form CB-1, the plat(s) required by this form; and 3) my operator name, address, phone number, fax, and email address.

☐ I have not provided this information to the surface owner(s). I acknowledge that, because I have not provided this information, the KCC will be required to send this information to the surface owner(s). To mitigate the additional cost of the KCC performing this task, I acknowledge that I must provide the name and address of the surface owner by filling out the top section of this form and that I am being charged a $30.00 handling fee, payable to the KCC, which is enclosed with this form.

*If choosing the second option, submit payment of the $30.00 handling fee with this form. If the fee is not received with this form, the KSONA-1 form and the associated Form C-1, Form CB-1, Form T-1, or Form CP-1 will be returned.*

Submitted Electronically

| | |
|---|---|
| Form | CP1 - Well Plugging Application |
| Operator | Shakespeare Oil Co., Inc. |
| Well Name | STOLL COMM. 1-27 |
| Doc ID | 1793273 |

Perforations And Bridge Plug Sets

| Perforation Top | Perforation Base | Formation | Bridge Plug Depth |
|---|---|---|---|
| 4582 | 4586 | Fort Scott | |
| 4488 | 4491 | Marmaton | |
| 4480 | 4483 | Marmaton | |
| 4462 | 4466 | Marmaton | |
| 4453 | 4456 | Marmaton | |
| 4331 | 4334 | LKC-K | |
| 4296 | 4300 | LKC-J | |

Weatherford®

# ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG

| | |
|---|---|
| COMPANY | SHAKESPEARE OIL CO., INC. |
| WELL | STOLL COMM #1-27 |
| FIELD | PENCE WEST |
| PROVINCE/COUNTY | SCOTT |
| COUNTRY/STATE | U.S.A. / KANSAS |
| LOCATION | 1198' FNL & 335' FWL |

| SEC | TWP | RGE | Other Services |
|---|---|---|---|
| 27 | 16S | 34W | MPD/MDN MML |
| API Number 15-171-20972 | | | MSS |
| Permit Number | | | |

Permanent Datum GL, Elevation 3129 feet
Log Measured From KB
Drilling Measured From KB

| Elevations: | feet |
|---|---|
| KB | 3139.00 |
| DF | 3137.00 |
| GL | 3129.00 |

| | | | | |
|---|---|---|---|---|
| Date | 04-OCT-2013 | | | |
| Run Number | ONE | | | |
| Service Order | 3539932 | | | |
| Depth Driller | 4870.00 | feet | | |
| Depth Logger | 4868.00 | feet | | |
| First Reading | 4865.00 | feet | | |
| Last Reading | 265.00 | feet | | |
| Casing Driller | 267.00 | feet | | |
| Casing Logger | 265.00 | feet | | |
| Bit Size | 7.875 | inches | | |
| Hole Fluid Type | CHEMICAL | | | |
| Density / Viscosity | 9.30 lb/USg | | 54.00 CP | |
| PH / Fluid Loss | 10.00 | | 9.60 ml/30Min | |
| Sample Source | MUDPIT | | | |
| Rm @ Measured Temp | 0.56 @ 80.0 | ohm-m | | |
| Rmf @ Measured Temp | 0.45 @ 80.0 | ohm-m | | |
| Rmc @ Measured Temp | 0.67 @ 80.0 | ohm-m | | |
| Source Rmf / Rmc | CALC | | CALC | |
| Rm @ BHT | 0.41 @109.0 | ohm-m | | |
| Time Since Circulation | 5 HOURS | | | |
| Max Recorded Temp | 109.00 | deg F | | |
| Equipment / Base | 13244 | | LIB | |
| Recorded By | ADAM SILL | | | |
| Witnessed By | TIM PRIEST | | | |
| JOB # | LB13-280 | | | |

## BOREHOLE RECORD

Last Edited: 04-OCT-2013 06:45

| Bit Size inches | Depth From feet | Depth To feet |
|---|---|---|
| 7.875 | 270.00 | 4870.00 |

## CASING RECORD

| Type | Size inches | Depth From feet | Shoe Depth feet | Weight pounds/ft |
|---|---|---|---|---|
| SURFACE | 8.625 | 0.00 | 270.00 | 24.00 |

## REMARKS

- SOFTWARE ISSUE: WLS 13.05.9583.
- RUN ONE: MCG, MML, MDN, MPD, MFE, MSS, MAI RUN IN COMBINATION.
  - HARDWARE: DUAL BOWSPRING USED ON MDN.
  0.5 INCH STANDOFF USED ON MFE.
  TWO 0.5 INCH STANDOFFS USED ON MSS.
  0.5 INCH STANDOFF USED ON MAI.
- 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 SURFACE CASING: 2419 CU.FT.
- ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO 3800 FEET: 231 CU.FT.

- RIG: H-D-DRILLING #2.

- ENGINEER: A. SILL.

- OPERATOR: N. ADAME, O. CRUZ.

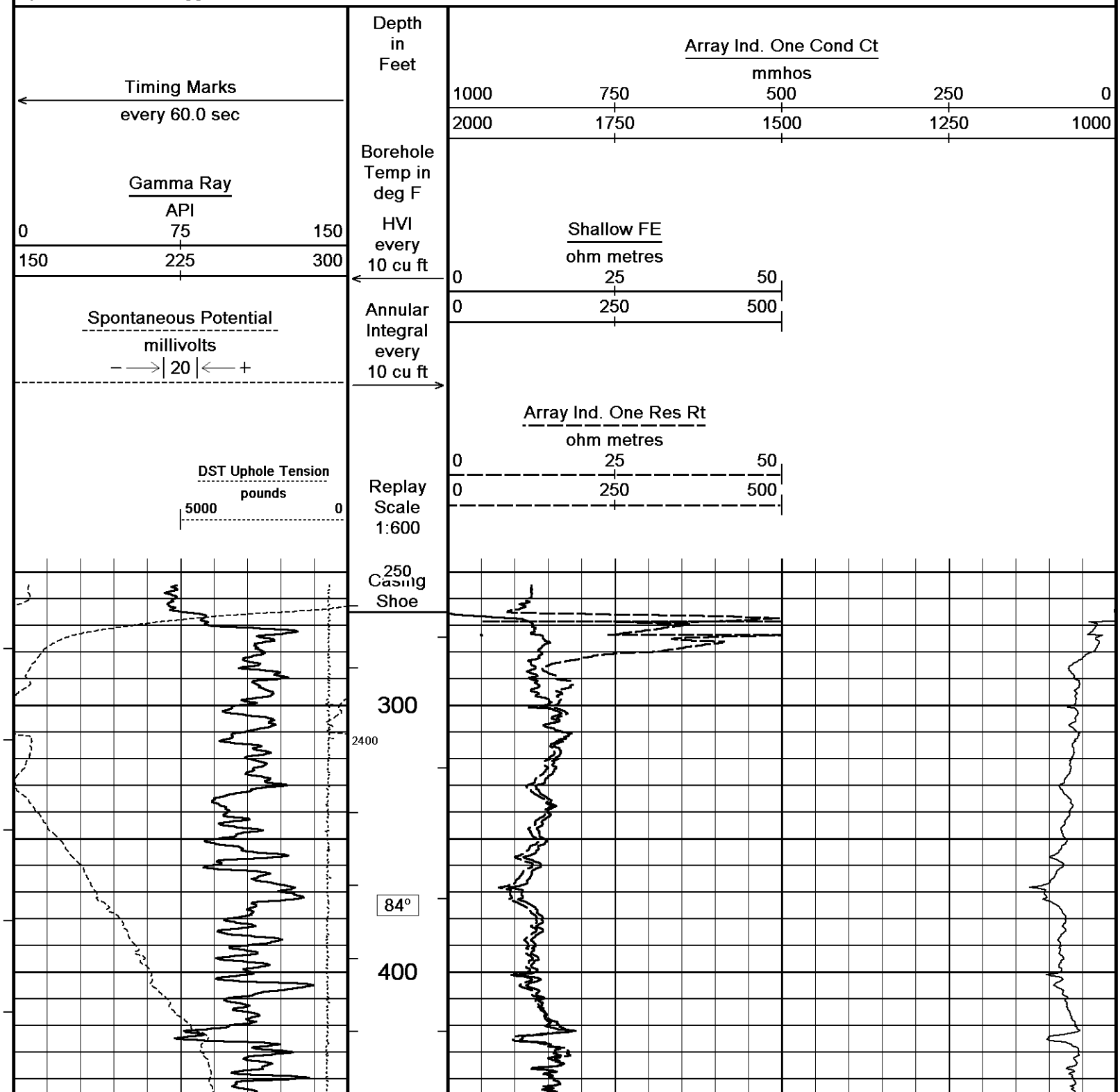


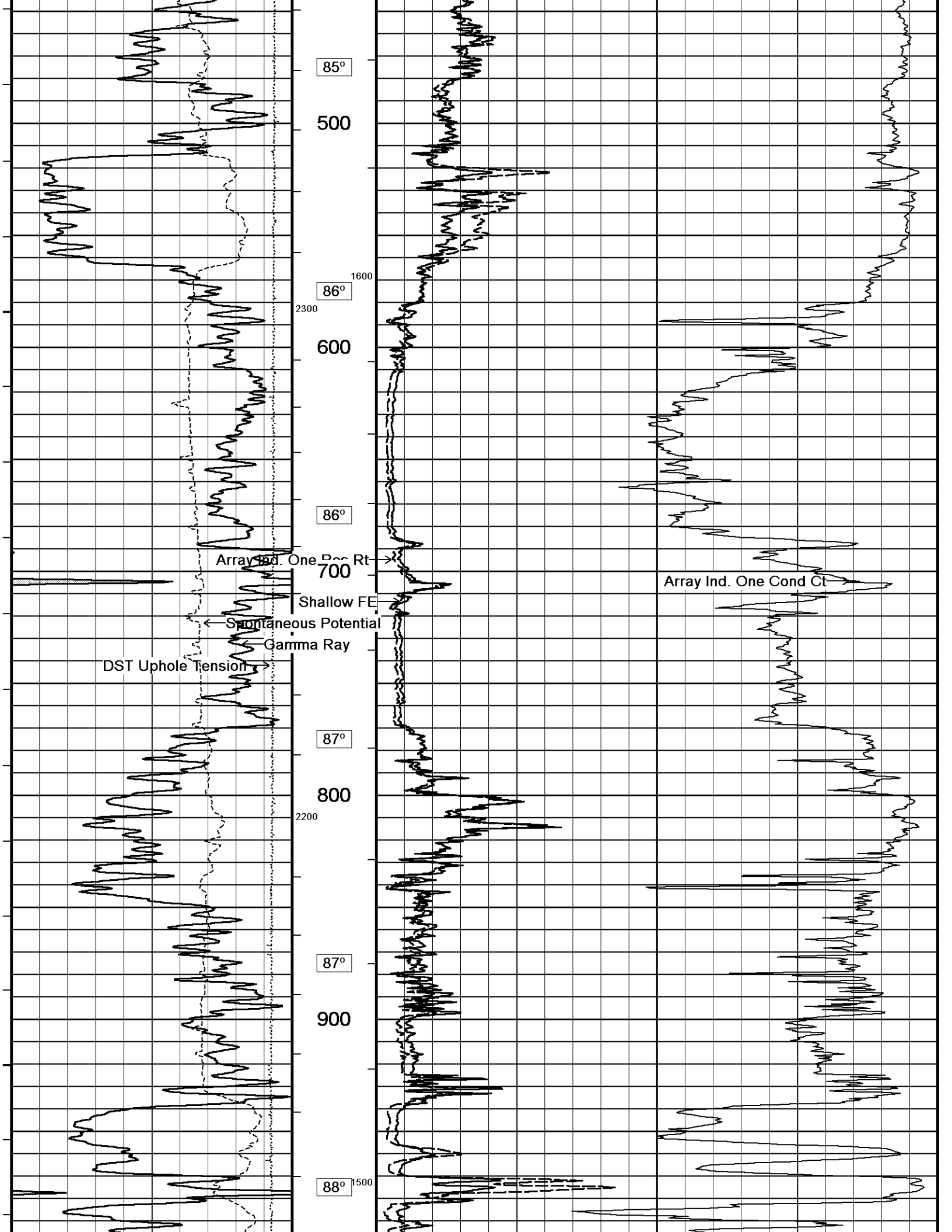
## 2 INCH MAIN

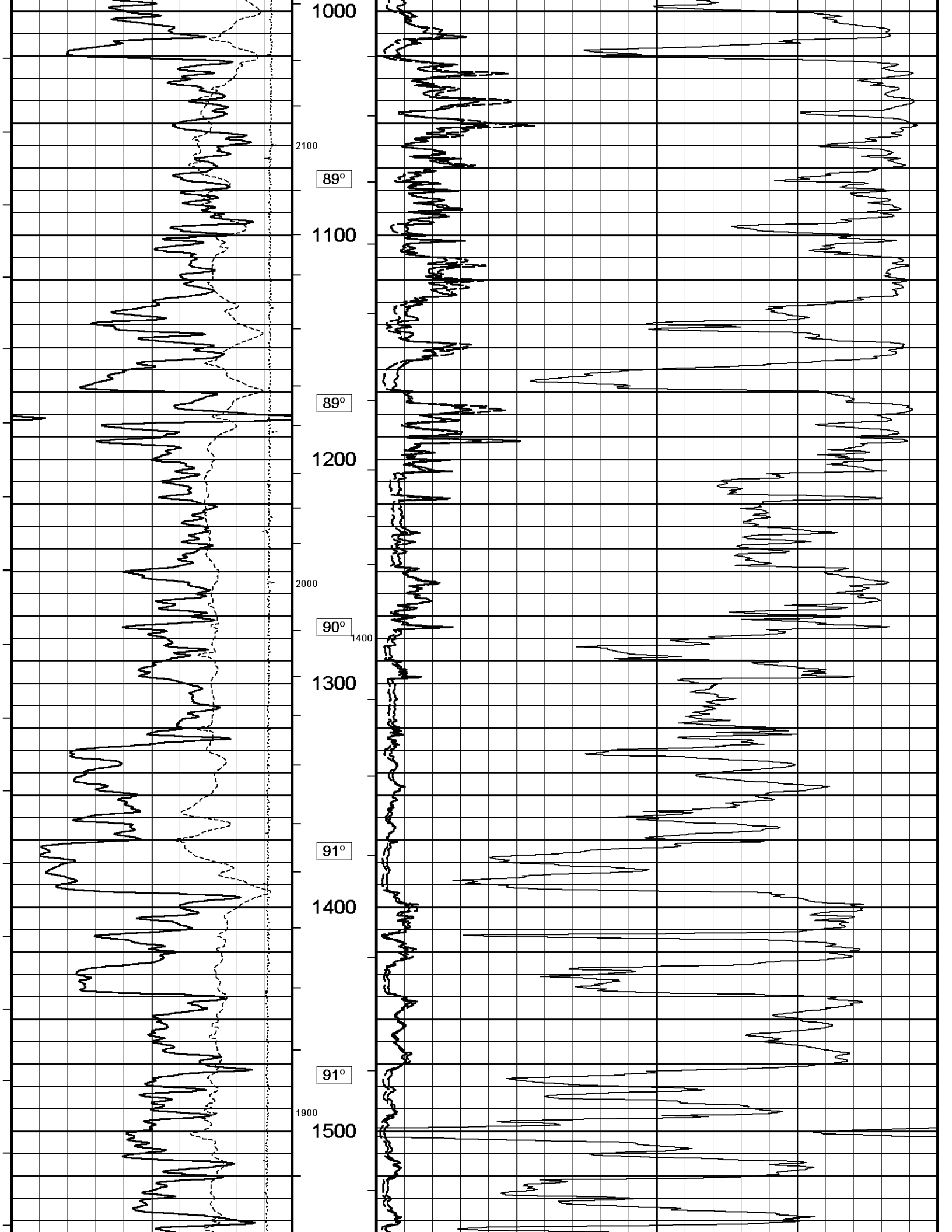
Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 04-OCT-2013 12:24

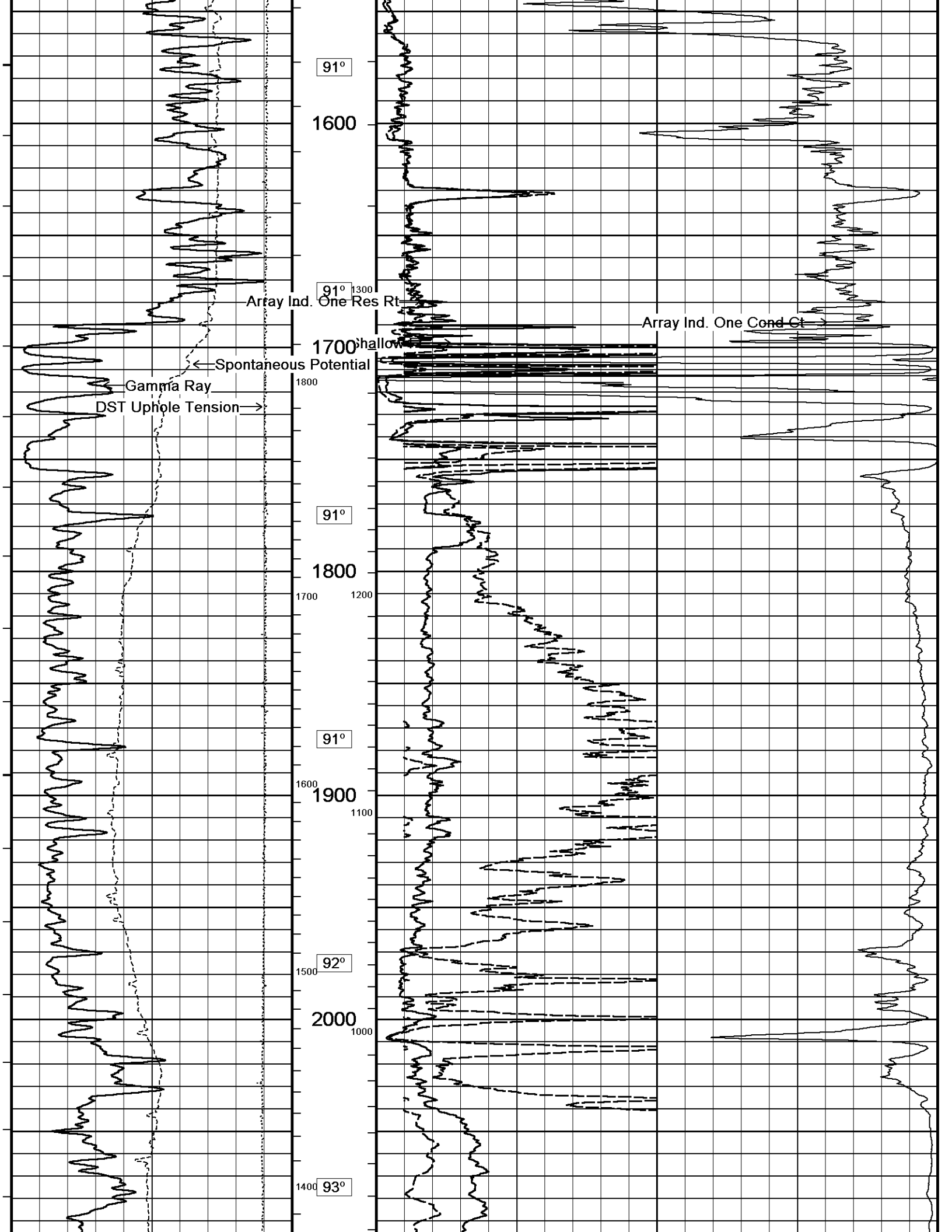
Filename: C:\Minimus 13.05.9583\Logs\Shakespeare Stoll Co...\Shakespeare Stoll Comm 1-27_002.dta — Recorded on 04-OCT-2013 09:36

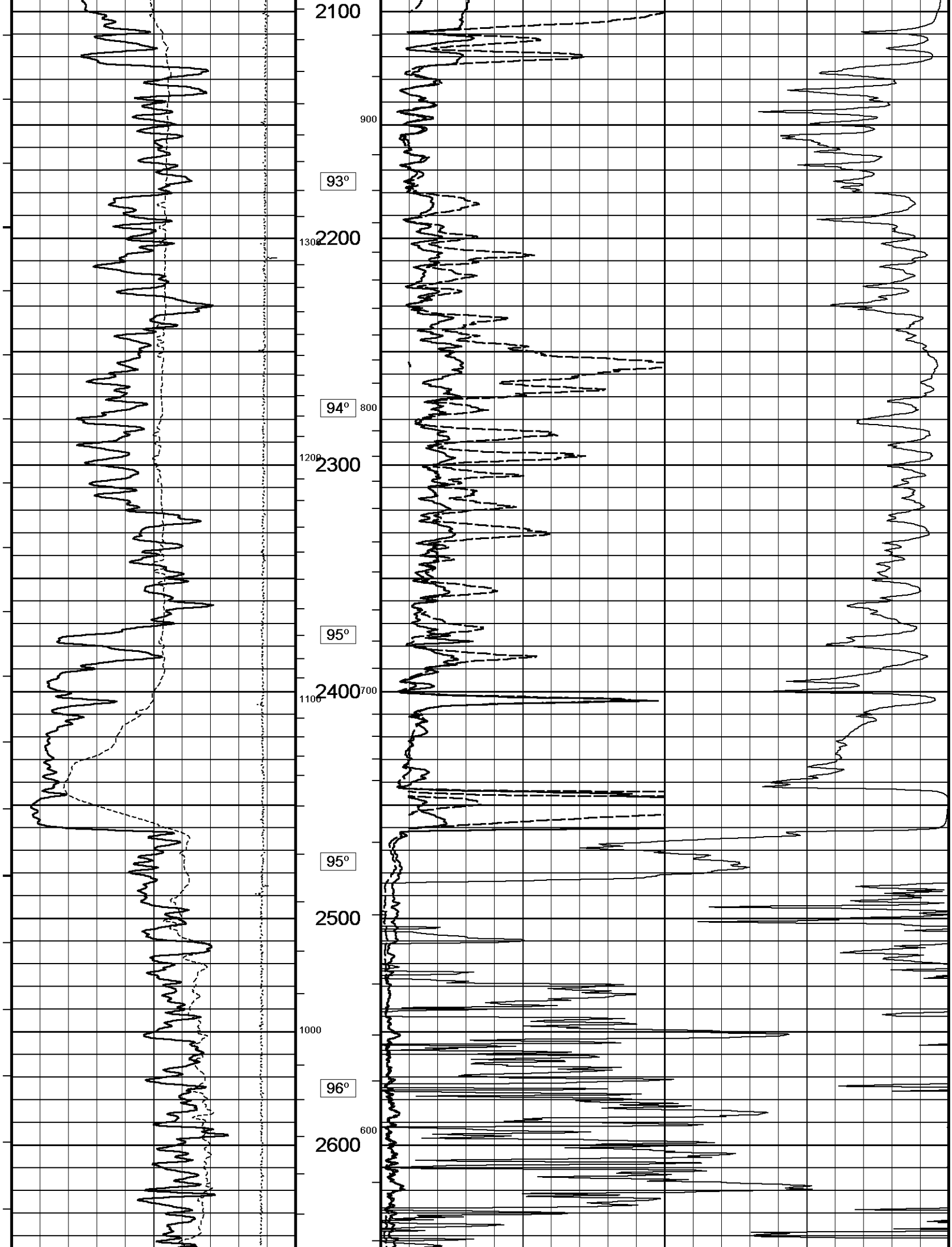
System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

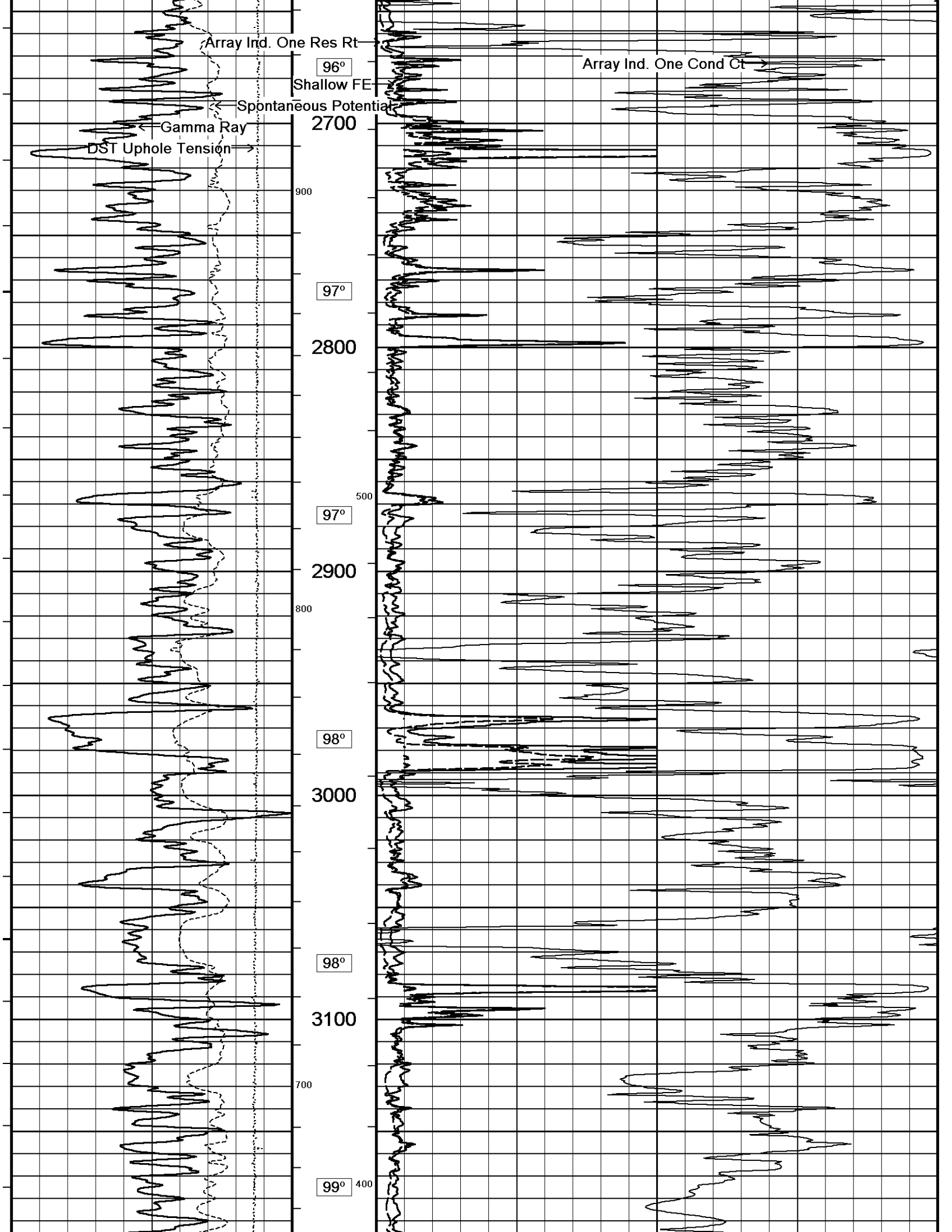


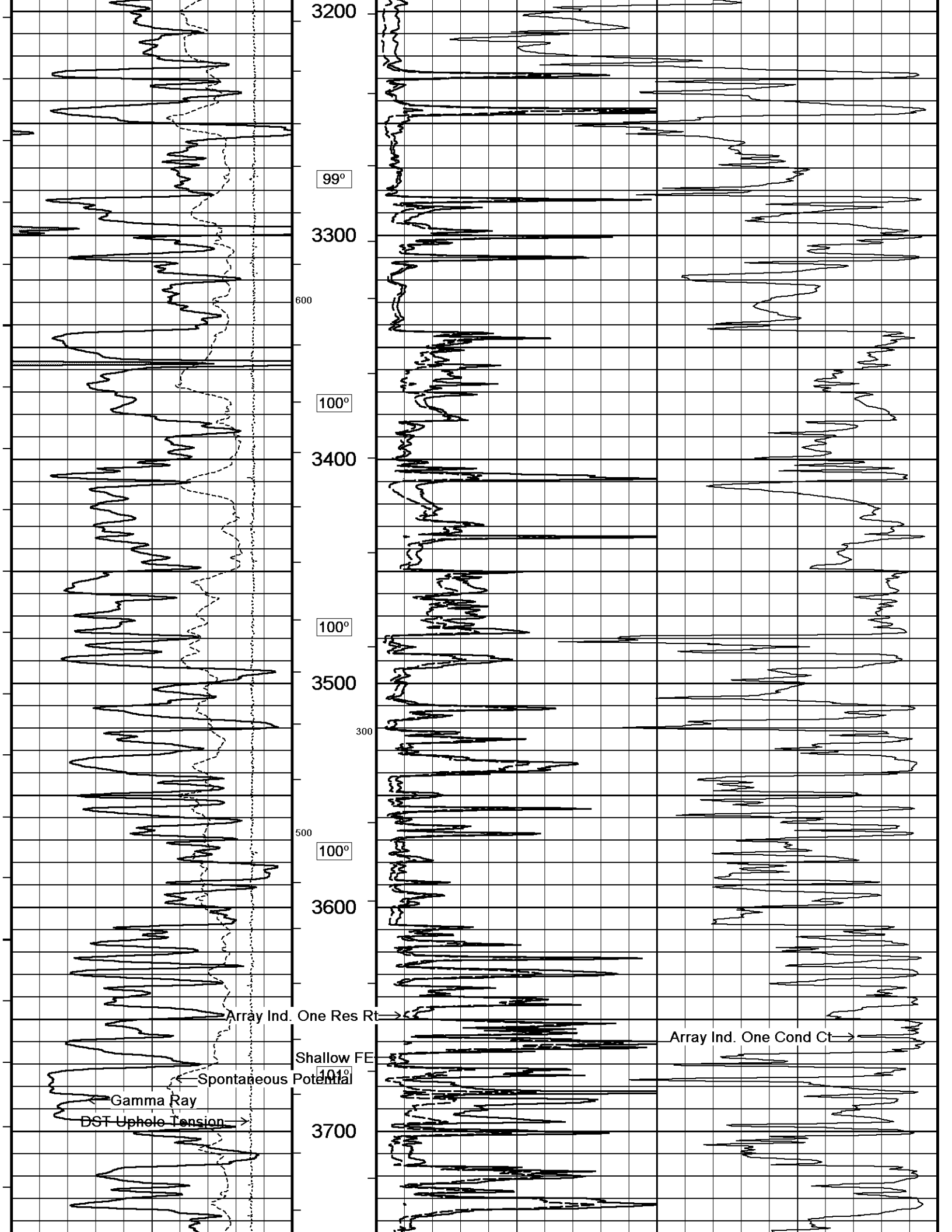

85°
500
1600
86°
2300
600
86°
Array Ind. One Rxo Rt
700
Array Ind. One Cond Ct
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension
87°
800
2200
87°
900
88°
1500

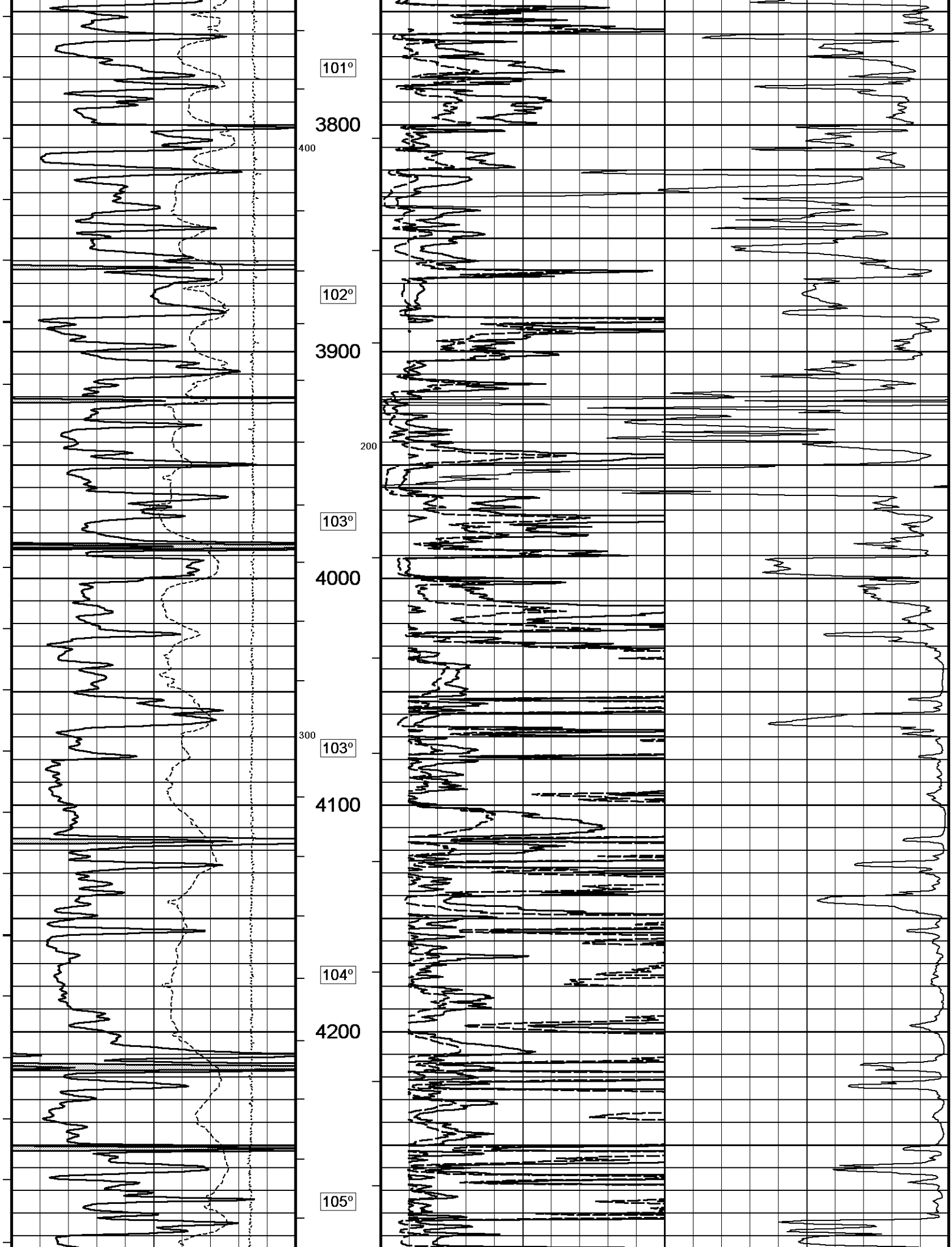

1000
2100
89°
1100
89°
1200
2000
90°
1400
1300
91°
1400
91°
1900
1500

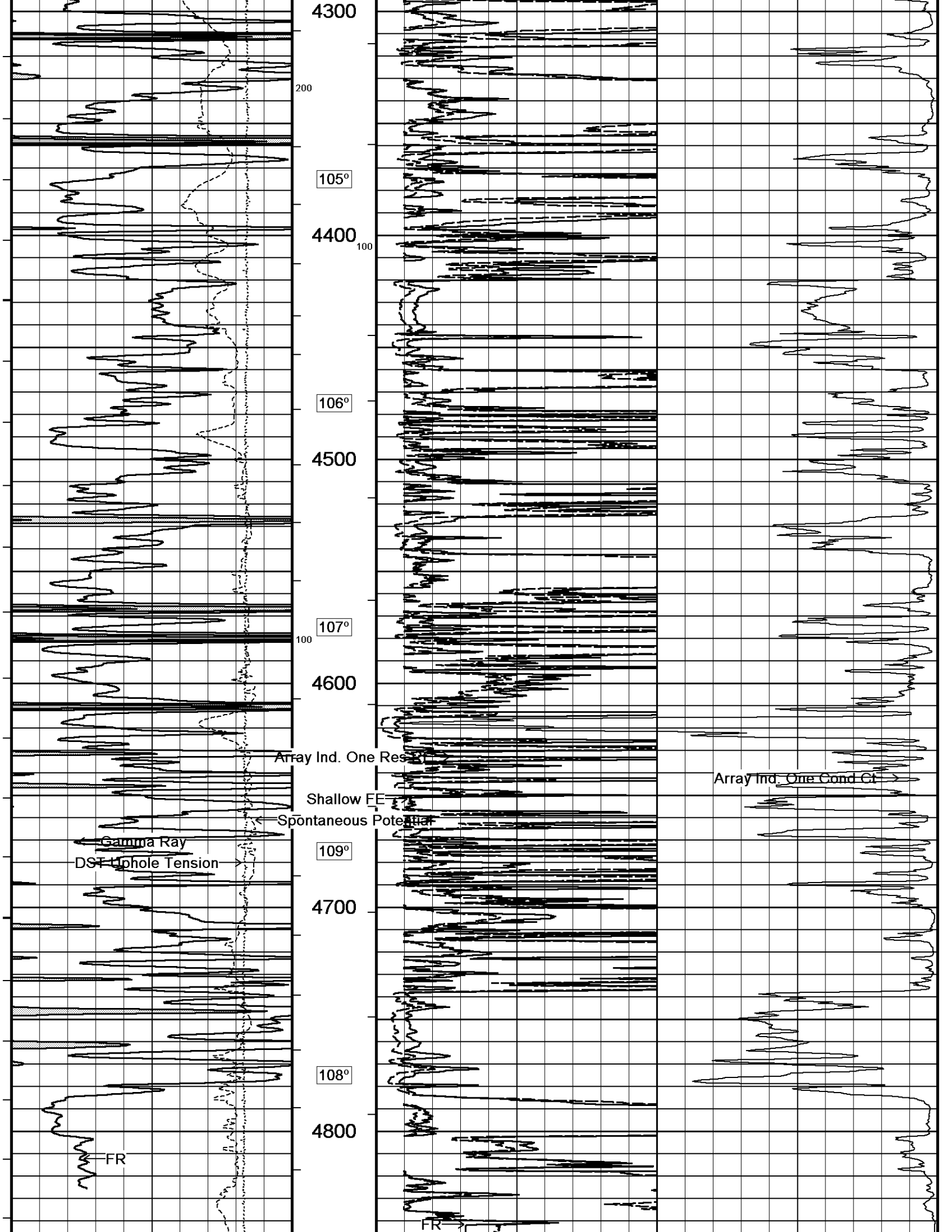

91°
1600
91°
1300
Array Ind. One Res Rt
Array Ind. One Cond Ct
1700
Shallow
Spontaneous Potential
1800
Gamma Ray
DST Uphole Tension
91°
1800
1700
1200
91°
1600
1900
1100
92°
1500
2000
1000
1400
93°

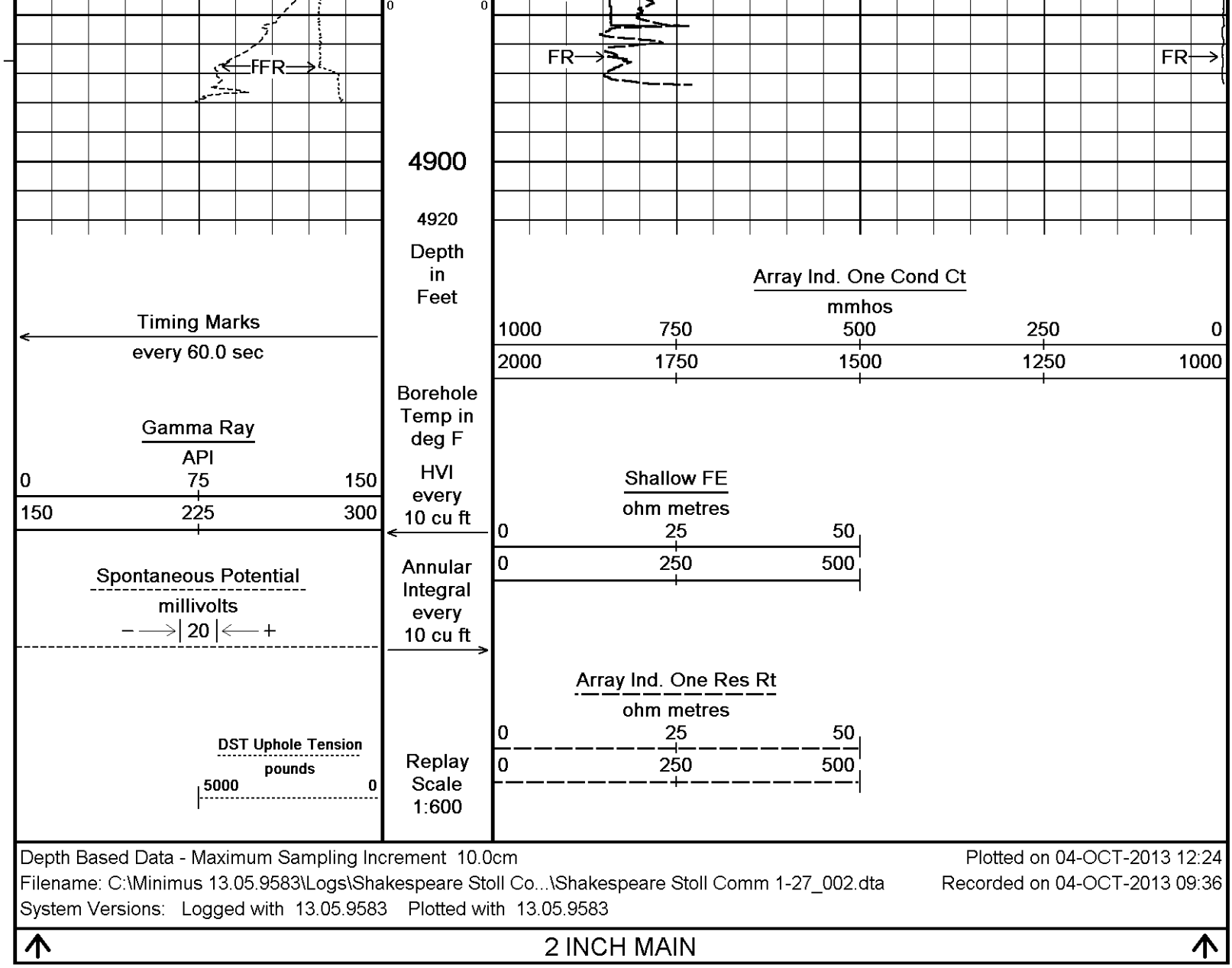

2100
900
93°
2200
1300
94°
800
1200
2300
95°
2400
700
1100
95°
2500
1000
96°
600
2600


Array Ind. One Res Rt
Array Ind. One Cond Ct
96°
Shallow FE
Spontaneous Potential
2700
Gamma Ray
DST Uphole Tension
900
97°
2800
500
97°
2900
800
98°
3000
98°
3100
700
99°
400


3200
99°
3300
600
100°
3400
100°
3500
300
500
100°
3600
Array Ind. One Res Rt
Array Ind. One Cond Ct
Shallow FE
101°
Spontaneous Potential
Gamma Ray
DST Uphole Tension
3700


101°
3800
400
102°
3900
200
103°
4000
300
103°
4100
104°
4200
105°


4300
200
105°
4400
100
106°
4500
107°
100
4600
Array Ind. One Res
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension
109°
4700
108°
4800
FR
Array Ind. One Cond Ct
FR

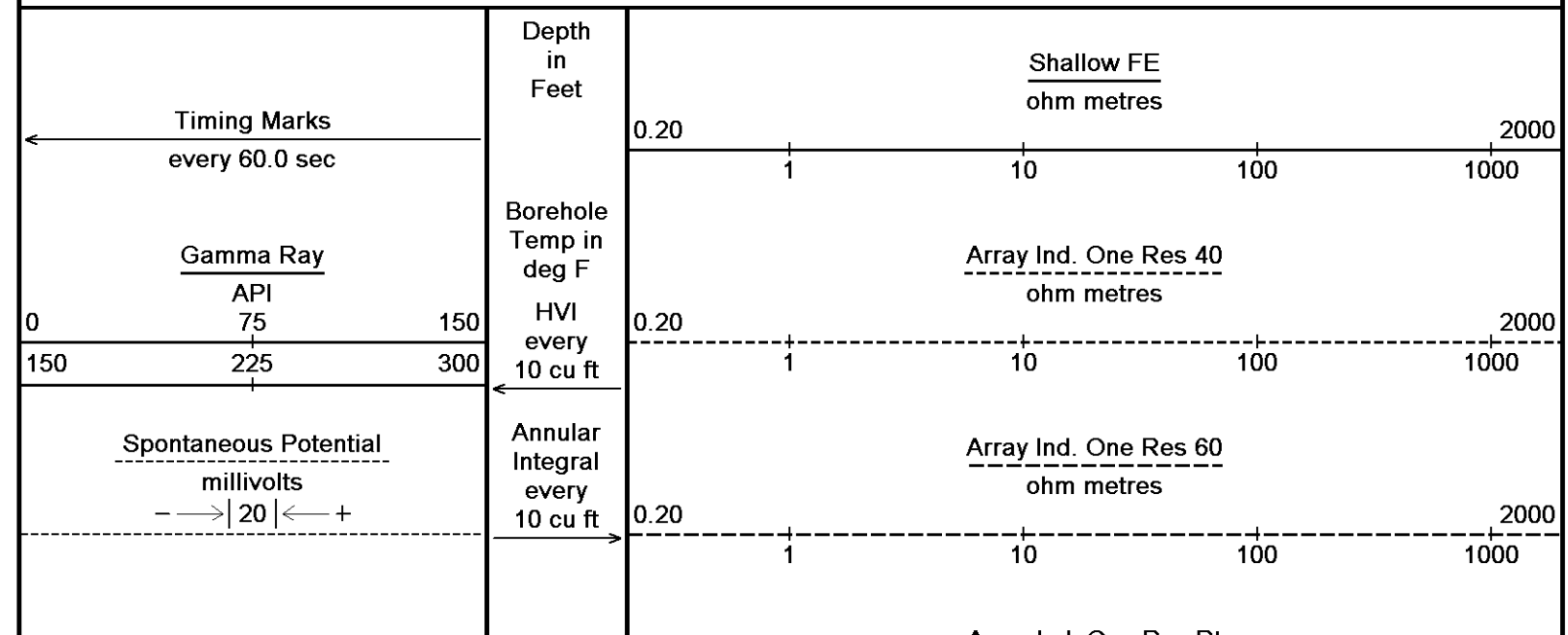


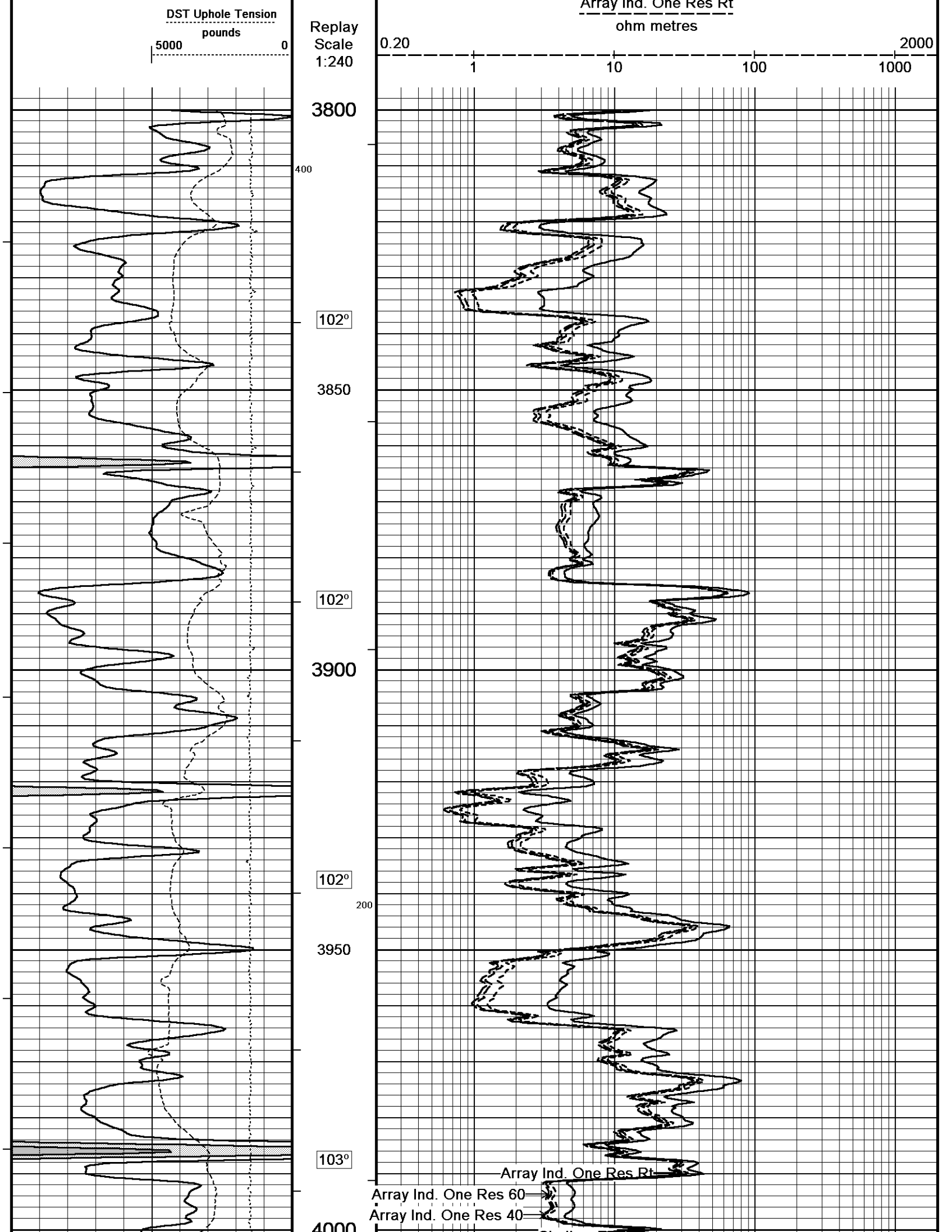

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 04-OCT-2013 12:24
Filename: C:\Minimus 13.05.9583\Logs\Shakespeare Stoll Co...\Shakespeare Stoll Comm 1-27_002.dta
Recorded on 04-OCT-2013 09:36
System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

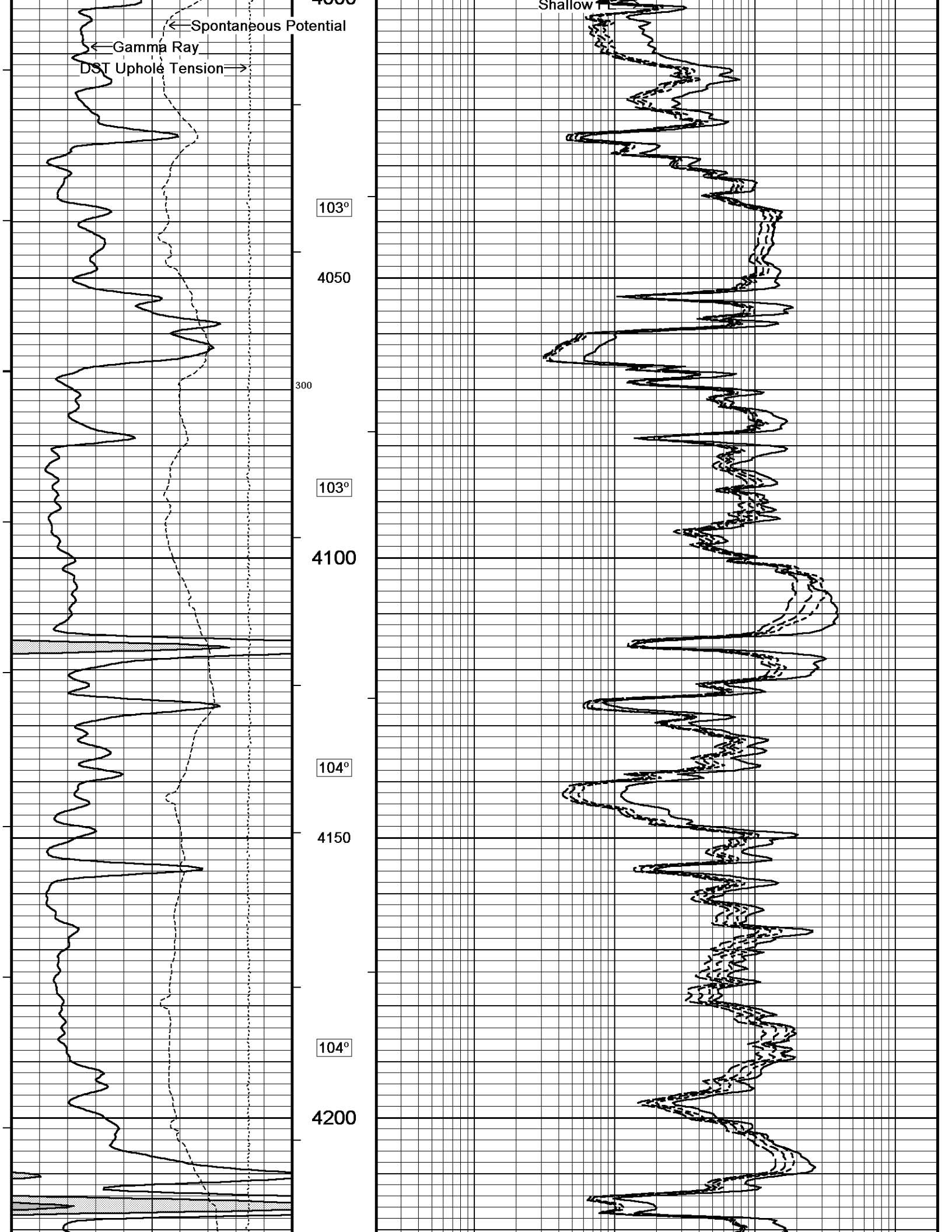
2 INCH MAIN

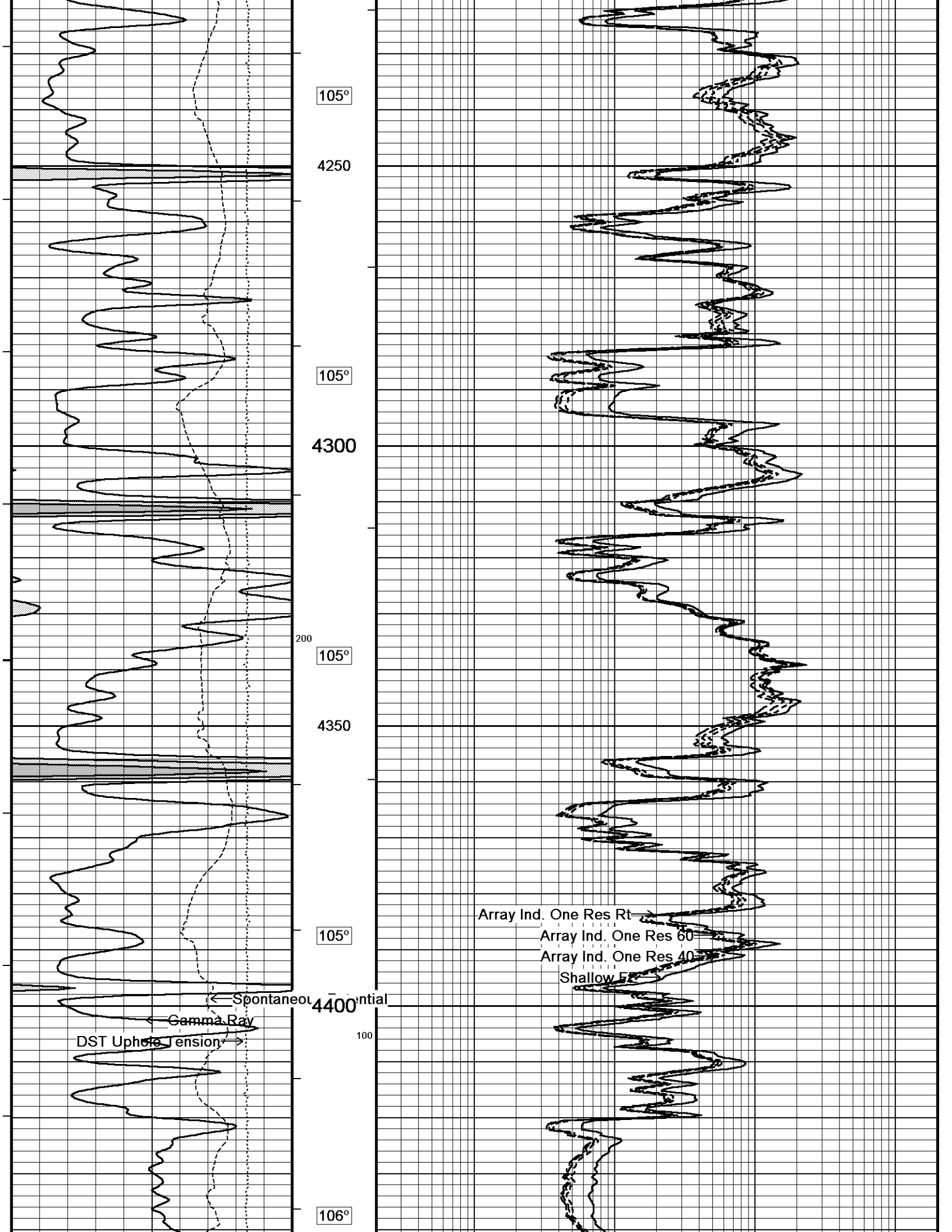
## 5 INCH MAIN

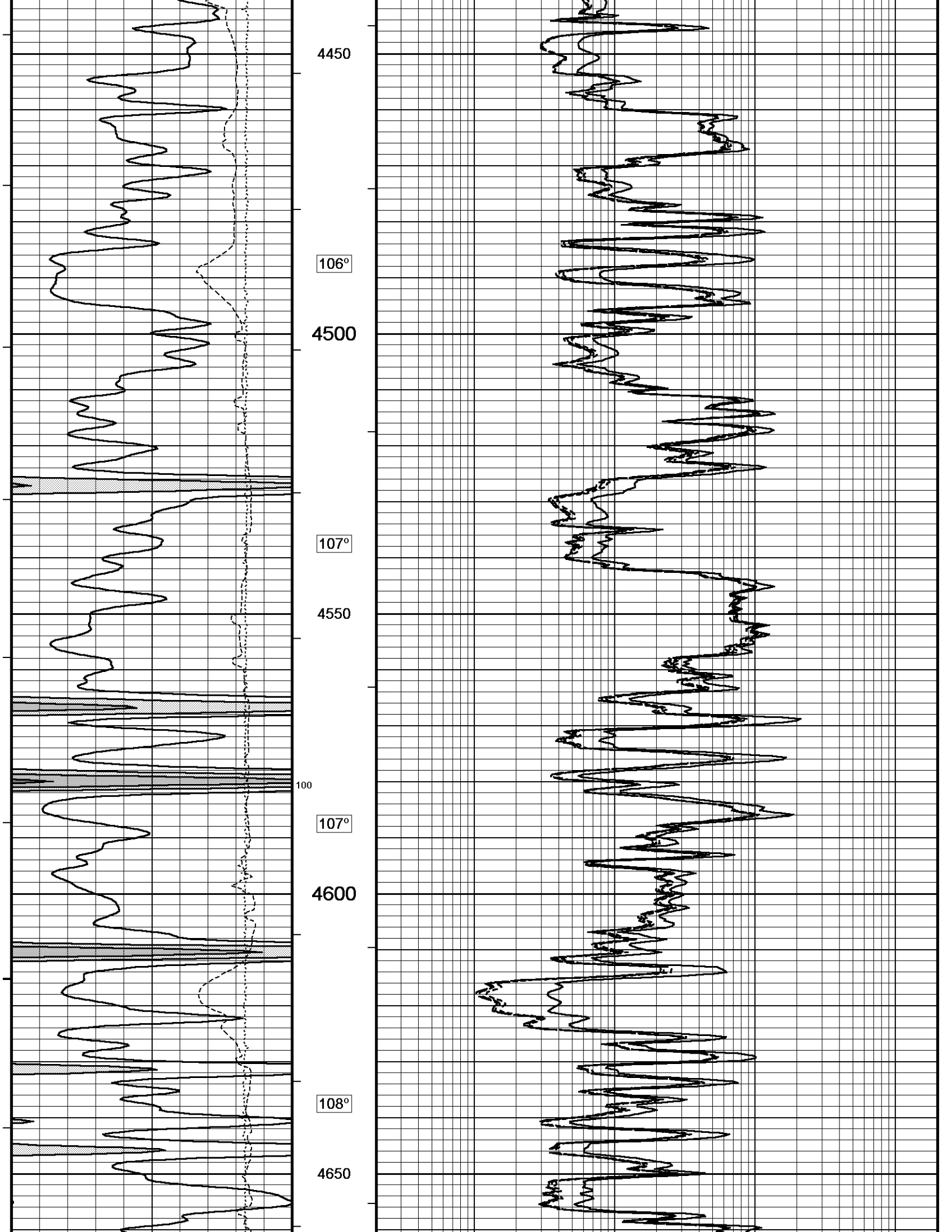
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 04-OCT-2013 12:24
Filename: C:\Minimus 13.05.9583\Logs\Shakespeare Stoll Co...\Shakespeare Stoll Comm 1-27_002.dta
Recorded on 04-OCT-2013 09:36
System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

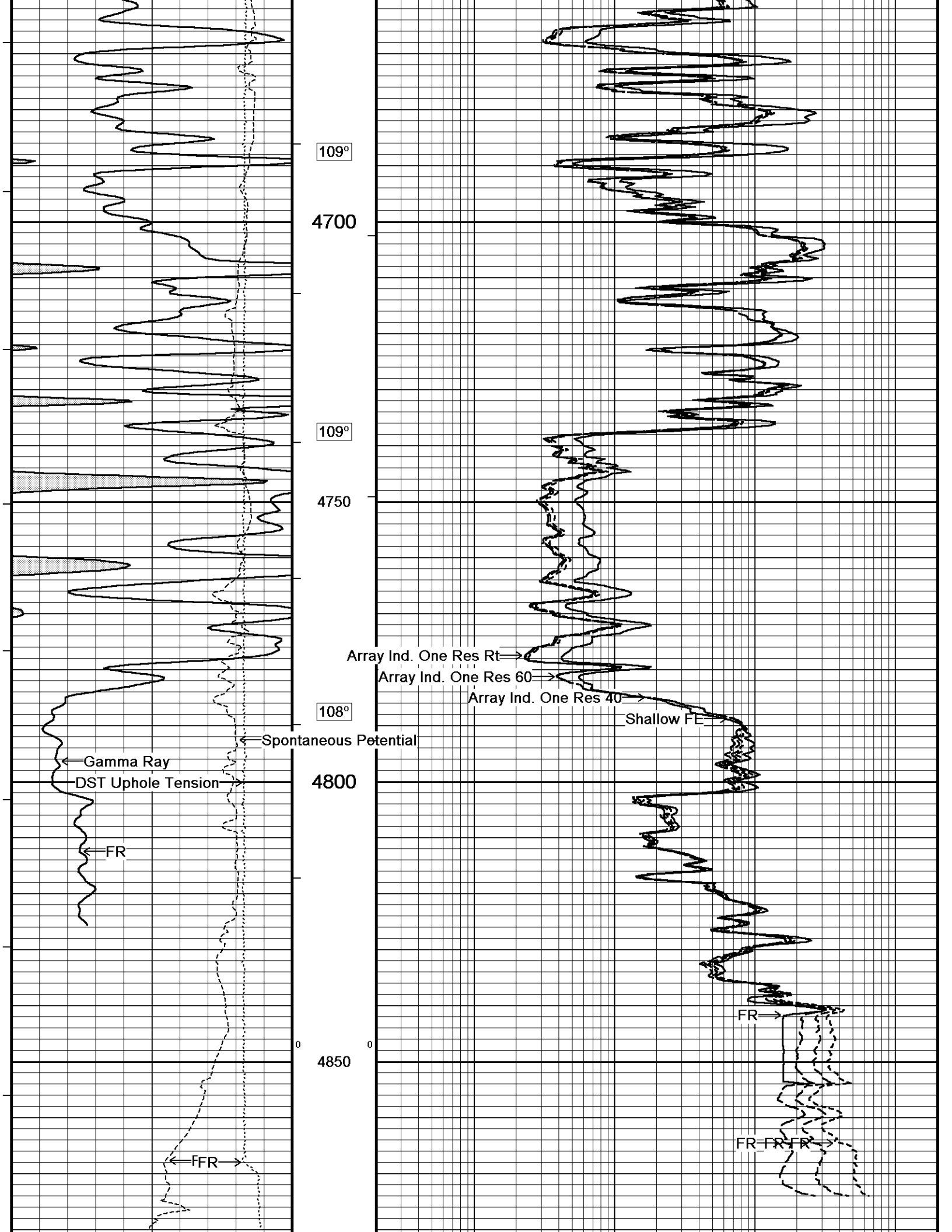


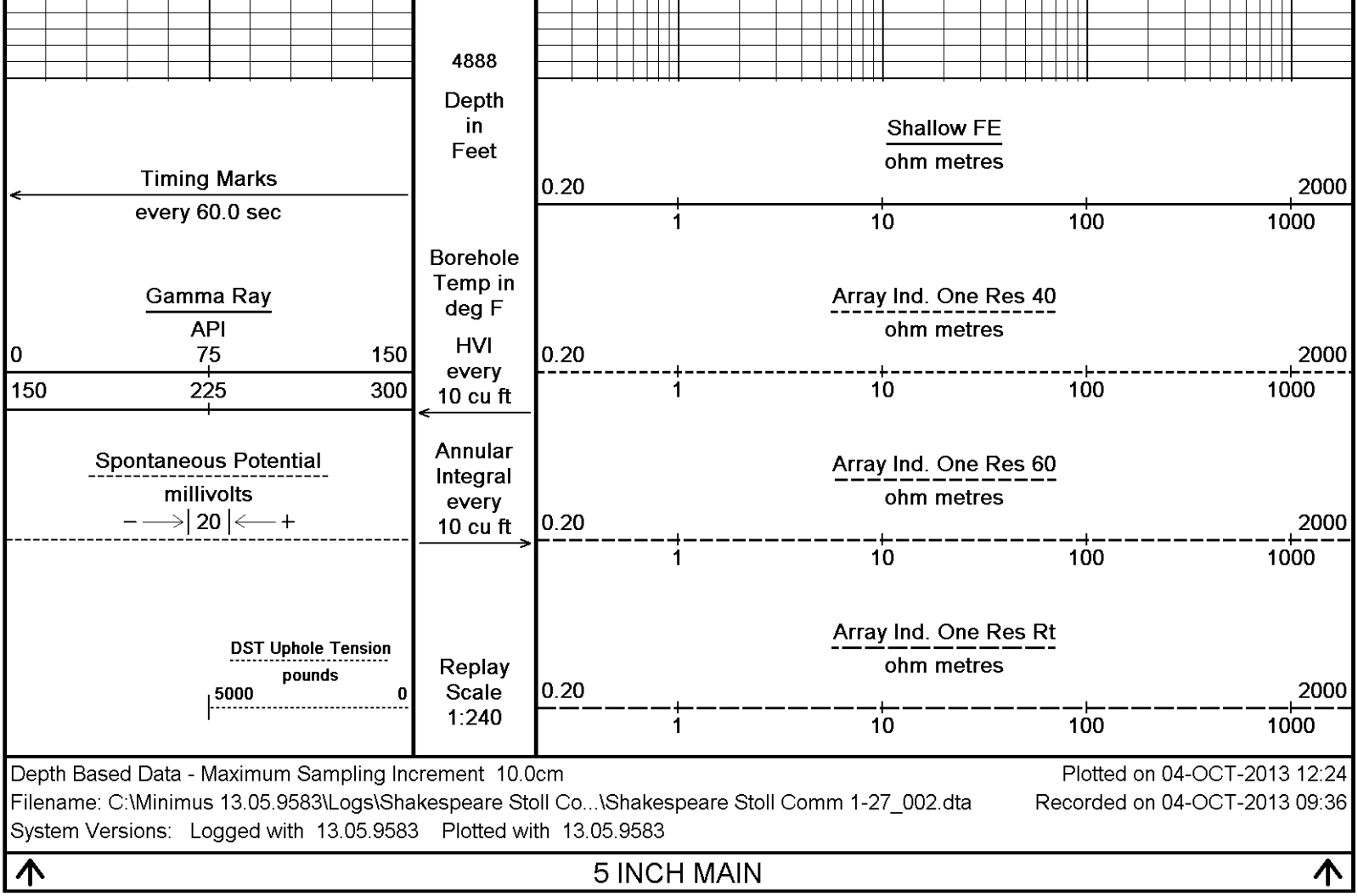

DST Uphole Tension
pounds
5000
0
Replay
Scale
1:240
Array Ind. One Res Rt
ohm metres
0.20
2000
1
10
100
1000
3800
400
102°
3850
102°
3900
102°
200
3950
103°
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
4000


Spontaneous Potential
Gamma Ray
DST Uphole Tension
Shallow
103°
4050
300
103°
4100
104°
4150
104°
4200


105°
4250
105°
4300
200
105°
4350
105°
4400
100
106°
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
Shallow Ft
Spontaneou ntial
Gamma Ray
DST Uphole Tension


4450
106°
4500
107°
4550
100
107°
4600
108°
4650


109°
4700
109°
4750
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40
108°
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension
4800
FR
FR
0
0
4850
FFR
FR FR FR




Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 04-OCT-2013 12:24
Filename: C:\Minimus 13.05.9583\Logs\Shakespeare Stoll Co...\Shakespeare Stoll Comm 1-27_002.dta — Recorded on 04-OCT-2013 09:36
System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

5 INCH MAIN

REPEAT SECTION

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 04-OCT-2013 12:24
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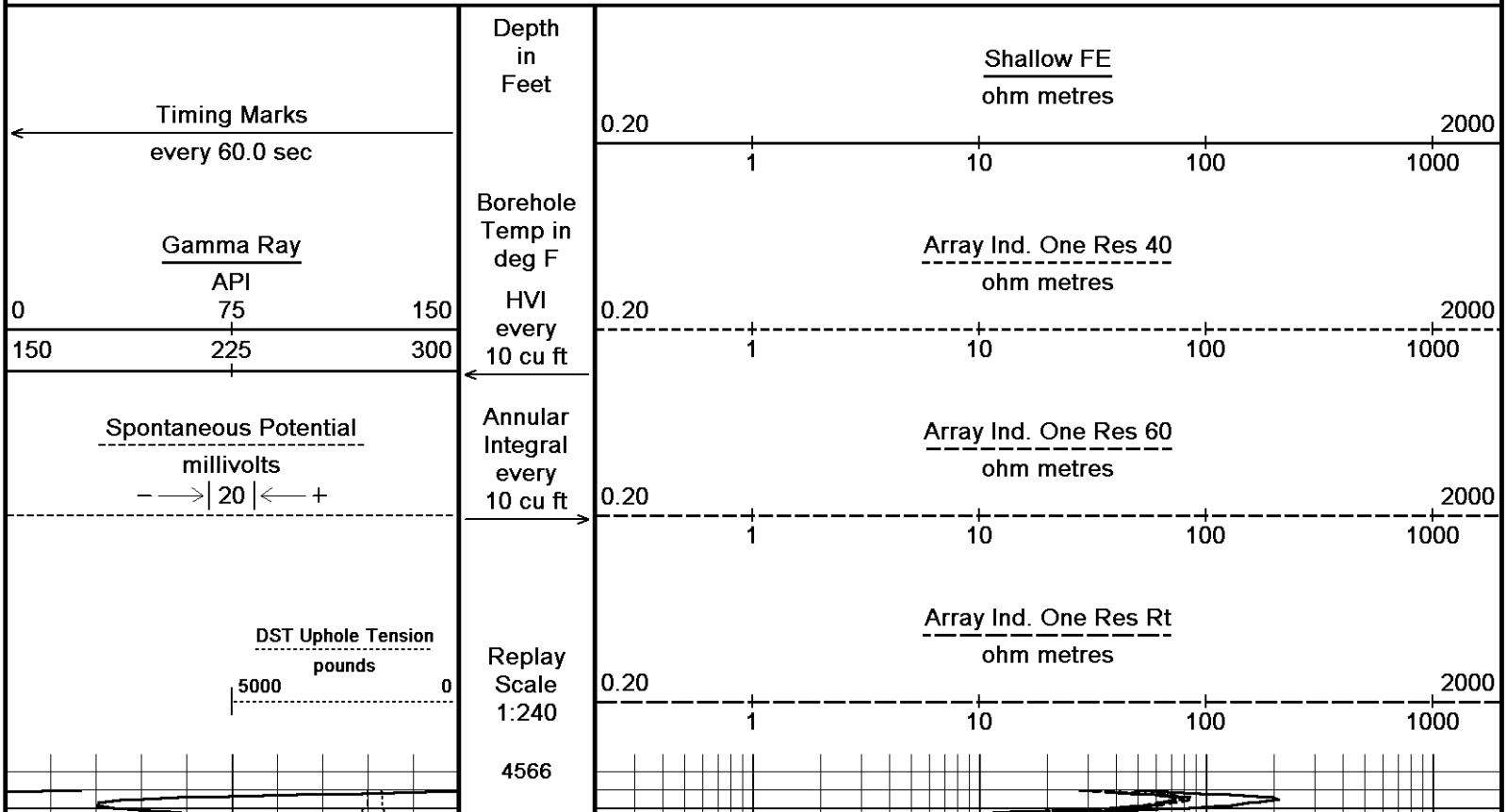
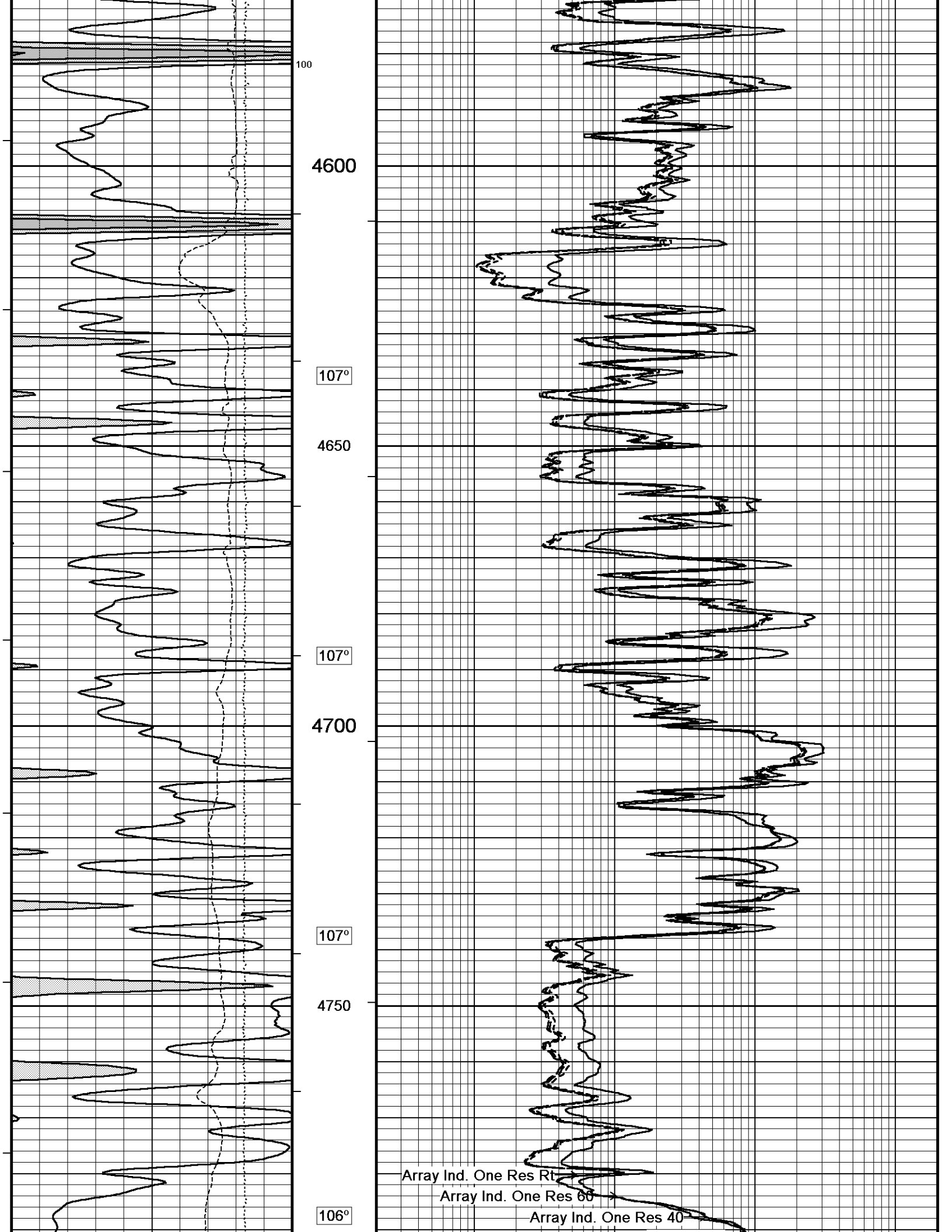
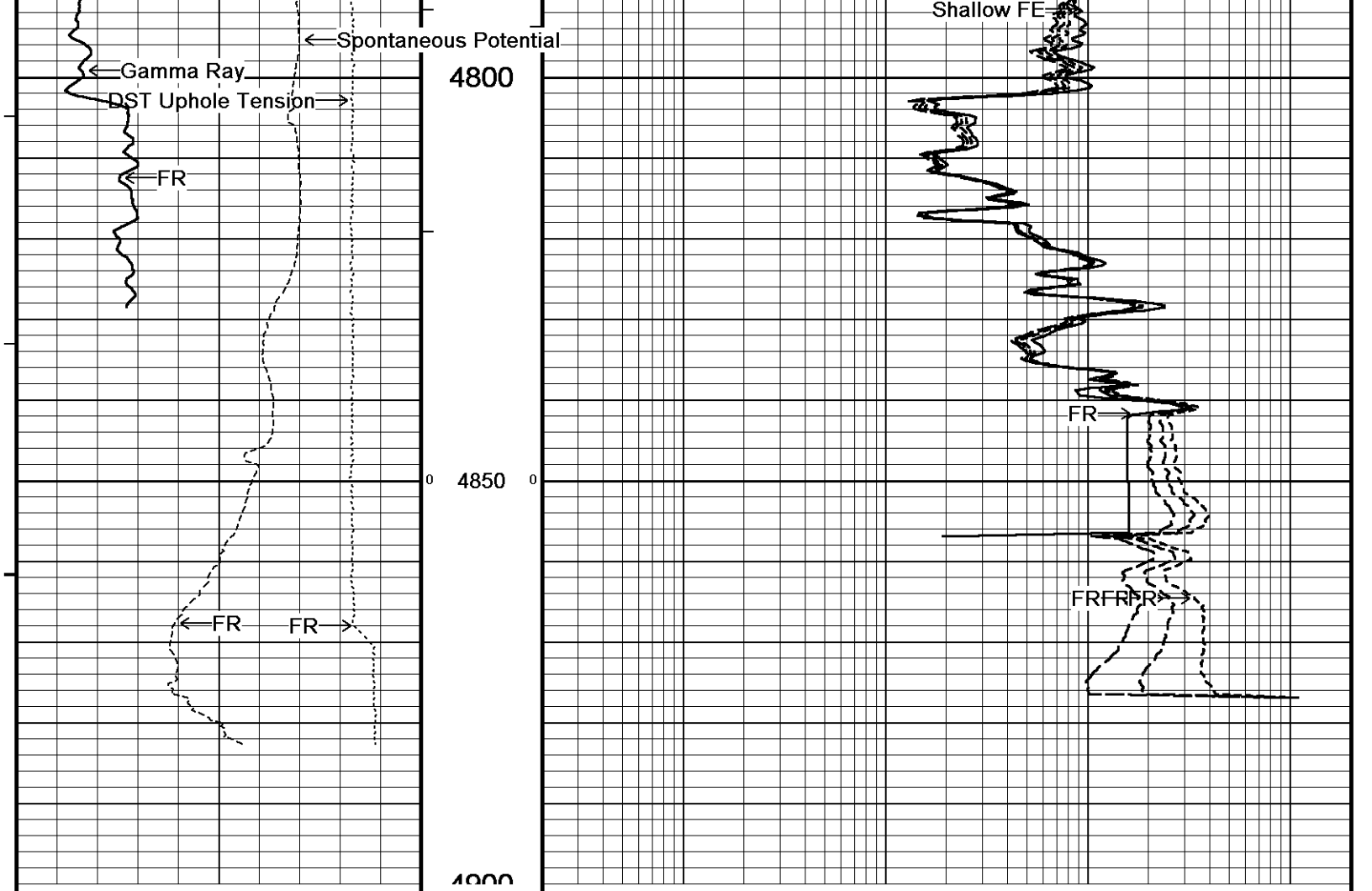



100
4600
107°
4650
107°
4700
107°
4750
106°
Array Ind. One Res Rt
Array Ind. One Res 60
Array Ind. One Res 40




Timing Marks
every 60.0 sec

Depth
in
Feet

Shallow FE
ohm metres
0.20 1 10 100 1000 2000

Gamma Ray
API
0 75 150
150 225 300

Borehole
Temp in
deg F

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
1:240

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

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 04-OCT-2013 12:24
Filename: C:\Minimus 13.05.9583\Logs\Shakespeare Stoll Co...\Shakespeare Stoll Comm 1-27_001.dta
Recorded on 04-OCT-2013 09:04
System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

REPEAT SECTION

BEFORE SURVEY CALIBRATION

## General Constants All 000

Last Edited on 04-OCT-2013,07:02

| | | |
|---|---|---|
| **General Parameters** | | |
| Mud Resistivity | 0.560 | ohm-metres |
| Mud Resistivity Temperature | 80.000 | 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 | Density Caliper | |
| **Rwa Parameters** | | |
| Porosity used | Base Density Porosity | |
| Resistivity used | Array Ind. Four Res Rt | |
| RWA Constant A | 1.000 | |
| RWA Constant M | 2.000 | |
| SW/APOR Tool Source | 0.000 | |

## Down-hole Tension Calibration SMS 0

Field Calibration on 04-OCT-2013 08:02

| Reading No | Measured | Calibrated (lbs) |
|---|---|---|
| 1 | 14959.89 | 0.00 |
| 2 | 15793.30 | 472.00 |

## Gamma Calibration MCG-D.K 443

Field Calibration on 02-OCT-2013 18:56

| | Measured | Calibrated (API) |
|---|---|---|
| Background | 69 | 47 |
| Calibrator (Gross) | 1130 | 772 |
| Calibrator (Net) | 1061 | 725 |

## Gamma Constants MCG-D.K 443

Last Edited on 04-OCT-2013,06:54

| | | |
|---|---|---|
| Gamma Calibrator Number | GRC38 | |
| Mud Density | 1.12 | gm/cc |
| Caliper Source for Processing | Density Caliper | |
| Tool Position | Eccentred | |
| Concentration of KCl | | kppm |
| K Mud Type | Chloride | |
| K Mud Concentration | 0.00 | % |

## SP Calibration MCG-D.K 443

Field Calibration on 02-OCT-2013,18:56

| | Measured | Calibrated (mV) |
|---|---|---|
| Reference 1 | 99.3 | 99.0 |
| Reference 2 | -97.1 | -99.0 |

## High Resolution Temperature Calibration MCG-D.K 443

Field Calibration on 02-OCT-2013,18:56

| | 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 02-OCT-2013,18:56

| | |
|---|---|
| Pre-filter Length | 11 |

## Caliper Calibration MML-A 16

Base Calibration on 16-AUG-2013 09:13
Field Calibration on 02-OCT-2013 18:45

**Base Calibration**

| Reading No | Measured | Calibrator Size (in) |
|---|---|---|
| 1 | 13832 | 5.98 |
| 2 | 16950 | 7.97 |
| 3 | 20199 | 9.86 |
| 4 | 24116 | 11.92 |
| 5 | 0 | 0.00 |
| 6 | N/A | N/A |

Field Calibration

| Measured Caliper (in) | Actual Caliper (in) |
|---|---|
| 6.00 | 5.98 |

## Micro Normal and Micro Inverse Calibration MML-A 16

Base Calibration on 16-AUG-2013 09:25
Field Check on 02-OCT-2013 18:46

Base Calibration

| Channel | Measured Resistor 1 | Measured Resistor 2 | Calibrated (ohm-m) Resistor 1 | Calibrated (ohm-m) Resistor 2 |
|---|---|---|---|---|
| Micro Normal | 12.2 | 60.2 | 5.0 | 25.0 |
| Micro Inverse | 15.6 | 78.3 | 5.0 | 25.0 |

| Channel | Base Check (ohm-m) | Field Check (ohm-m) |
|---|---|---|
| Micro Normal | 62.9 | 62.9 |
| Micro Inverse | 48.3 | 48.3 |

## Micro Normal and Micro Inverse Constants MML-A 16

Last Edited on 04-OCT-2013,06:54

| | | |
|---|---|---|
| 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 16-AUG-2013 14:44
Field Check on 02-OCT-2013 19:01

Base Calibration

| | Measured Near | Measured Far | Calibrated (cps) Near | Calibrated (cps) Far |
|---|---|---|---|---|
| | 3010 | 92 | 3714 | 110 |
| Ratio | 32.584 | | 33.764 | |

Field Calibrator at Base

| | Calibrated (cps) | |
|---|---|---|
| | 1653 | 2429 |
| Ratio | 0.681 | |

Field Check

| | Calibrated (cps) | |
|---|---|---|
| | 1643 | 2416 |
| Ratio | 0.677 | |

## Neutron Constants MDN-B.J 387

Last Edited on 04-OCT-2013,06:54

| | | |
|---|---|---|
| Neutron Source Id | P58125B | |
| 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 | None | |
| Formation Pressure | N/A | kpsi |
| Temperature Source | Constant Value | |
| Temperature | 68.00 | degrees F |
| Mud Salinity | 0.00 | kppm |
| Salinity Correction | Not Applied | |
| Formation Fluid Salinity Source | None | |
| Formation Fluid Salinity | N/A | kppm |
| Barite Mud Correction | Not Applied | |

## FE Calibration MFE-A.A 55

Base Calibration on 16-AUG-2013 08:59
Field Check on 02-OCT-2013 18:40

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 04-OCT-2013,06:53

| | | |
|---|---|---|
| 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 |

## Sonic Constants MSS-A.A 55

Last Edited on 04-OCT-2013,06:53

| | | |
|---|---|---|
| Maximum Boundary Contrast | 100.00 | micro-sec/ft |
| Fluid Transit Time | 189.00 | micro-sec/ft |
| Limestone Transit Time | 47.50 | micro-sec/ft |
| Sandstone Transit Time | 55.50 | micro-sec/ft |
| Dolomite Transit Time | 43.50 | micro-sec/ft |
| Sonic used for Porosities | 3-5' Compensated Sonic | |
| Correction for Sonde Skew | Applied | |
| Cycle Stretch Algorithm | Applied | |
| MN3FT | N/A | micro-sec |
| MX3FT | N/A | micro-sec |
| Hunt-Raymer Constant | 83.13 | micro-sec/ft |
| Sonde Mode | Compensated | |
| Hole Type | Open Hole | |

Sonde Parameters

| | Measured | Calibrated |
|---|---|---|
| Offset | N/A | 0.0000 |
| Free Pipe | N/A | N/A |

Peak Amplitude Source N/A

| Waveform | Start Time (micro-sec) | Width (micro-sec) | Pre Gain | Start Gain | Discriminator (mV) |
|---|---|---|---|---|---|
| 3' | N/A | N/A | N/A | N/A | N/A |
| 4' | N/A | N/A | N/A | N/A | N/A |
| 5' | N/A | N/A | N/A | N/A | N/A |
| 6' | N/A | N/A | N/A | N/A | N/A |

Processed Fixed Gate Parameters

Waveform Used For Processing N/A

| Start Time (micro-sec) | End Time (micro-sec) | Discriminator (mV) | N/A |
|---|---|---|---|
| N/A | N/A | N/A | |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | |

Full Waveform Parameters

| | | |
|---|---|---|
| Use 3' Waveform to derive TR | N/A | |
| Use 4' Waveform to derive TR | N/A | |
| Use 5' Waveform to derive TR | N/A | |
| Use 6' Waveform to derive TR | N/A | |
| 3' Waveform Discriminator Level | N/A | mV |
| 4' Waveform Discriminator Level | N/A | mV |
| 5' Waveform Discriminator Level | N/A | mV |
| 6' Waveform Discriminator Level | N/A | mV |
| 3' Waveform Filter | N/A | |
| 4' Waveform Filter | N/A | |
| 5' Waveform Filter | N/A | |
| 6' Waveform Filter | N/A | |
| Semblance Level | N/A | |
| Semblance Window Width | N/A | micro-sec |
| Sonic 1 Despiker | N/A | N/A |
| Sonic 2 Despiker | N/A | N/A |

## Induction Calibration MAI-A.A 178

Base Calibration on 28-AUG-2013,08:48
Field Check on 02-OCT-2013 18:39

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) Low | Base Check (mmho/m) High | Field Check (mmho/m) Low | Field Check (mmho/m) High |
|---|---|---|---|---|
| 1 | | | 12.9 | 3763.9 |
| 2 | | | 29.7 | 3467.5 |
| 3 | | | 27.3 | 3014.4 |
| 4 | | | 18.8 | 2065.0 |
| Deep | | | 15.9 | 1995.5 |
| Medium | | | 40.2 | 3955.5 |
| Shallow | | | 45.6 | 5082.7 |

Array Temperature 84.6 Deg F

## Induction Constants MAI-A.A 178

Last Edited on 04-OCT-2013,06:53

| | | |
|---|---|---|
| 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 02-OCT-2013,18:57

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

## High Resolution Temperature Constants MAI-A.A 178

Last Edited on 02-OCT-2013,18:56

| | |
|---|---|
| Pre-filter Length | 11 |

## Photo Density Calibration MPD-B 59

Base Calibration on 23-AUG-2013 11:44
Field Check on 02-OCT-2013 18:51

Density Calibration

| Base Calibration | Measured Near | Measured Far | Calibrated (sdu) Near | Calibrated (sdu) Far |
|---|---|---|---|---|
| Reference 1 | 58612 | 28481 | 59556 | 30836 |
| Reference 2 | 23605 | 2511 | 24941 | 2541 |
| Field Check at Base | 1186.0 | 1254.6 | | |
| Field Check | 1191.3 | 1249.7 | | |

PE Calibration

| Base Calibration | WS | Measured WH | Measured Ratio | Calibrated Ratio |
|---|---|---|---|---|
| Background | 217 | 1063 | | |
| Reference 1 | 21648 | 58418 | 0.374 | 0.371 |
| Reference 2 | 6282 | 23469 | 0.271 | 0.272 |
| Field Check at Base | 216.6 | 1062.7 | | |
| Field Check | 214.1 | 1069.4 | | |

## Density Constants MPD-B 59

Last Edited on 04-OCT-2013,06:54

| | | |
|---|---|---|
| Density Source Id | P50557B | |
| 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 | 1.12 | 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 (m) |
|---|---|
| 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 |

## Caliper Calibration MPD-B 59

Base Calibration on 23-AUG-2013 11:17
Field Calibration on 02-OCT-2013 18:42

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) |
|---|---|
| 6.00 | 5.98 |

## DOWNHOLE EQUIPMENT

C:\Minimus 13.05.9583\Logs\Shakespeare Stoll Comm 1-27\Shakespeare Stoll Comm 1-27_001.dta

3/8" Triple Cone Cable Head (MCB C A)
MCB-C.A 5 LG: 1.58 ft WT: 15.4 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

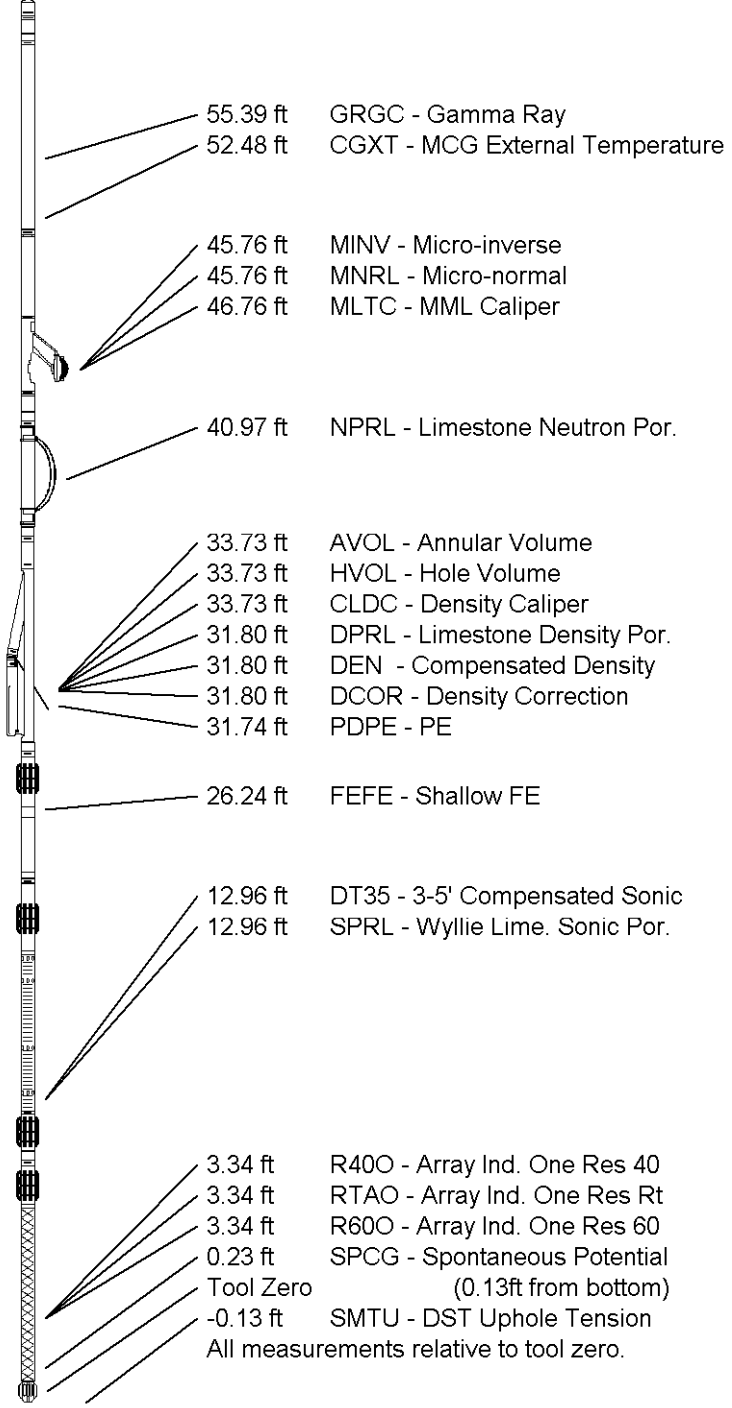
Compact Density/Caliper
MPD-B 59 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

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

Compact Sonic
MSS-A.A 55 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: 62.25 ft Weight: 471.8 lb



| | |
|---|---|
| 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 |
| 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 - Density 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 | STOLL COMM #1-27 |
| FIELD | PENCE WEST |
| PROVINCE/COUNTY | SCOTT |
| COUNTRY/STATE | U.S.A. / KANSAS |

| | | | | | |
|---|---|---|---|---|---|
| Elevation Kelly Bushing | 3139.00 | feet | First Reading | 4865.00 | feet |
| Elevation Drill Floor | 3137.00 | feet | Depth Driller | 4870.00 | feet |
| Elevation Ground Level | 3129.00 | feet | Depth Logger | 4868.00 | feet |

Weatherford®

# ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG

Weatherford

# ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG

COMPANY: SHAKESPEARE OIL CO., INC.
WELL: STOLL COMM #1-27
FIELD: PENCE WEST
PROVINCE/COUNTY: SCOTT
COUNTRY/STATE: U.S.A. / KANSAS
LOCATION: 1198' FNL & 335' FWL

Other Services: MFD/MDN, MSS

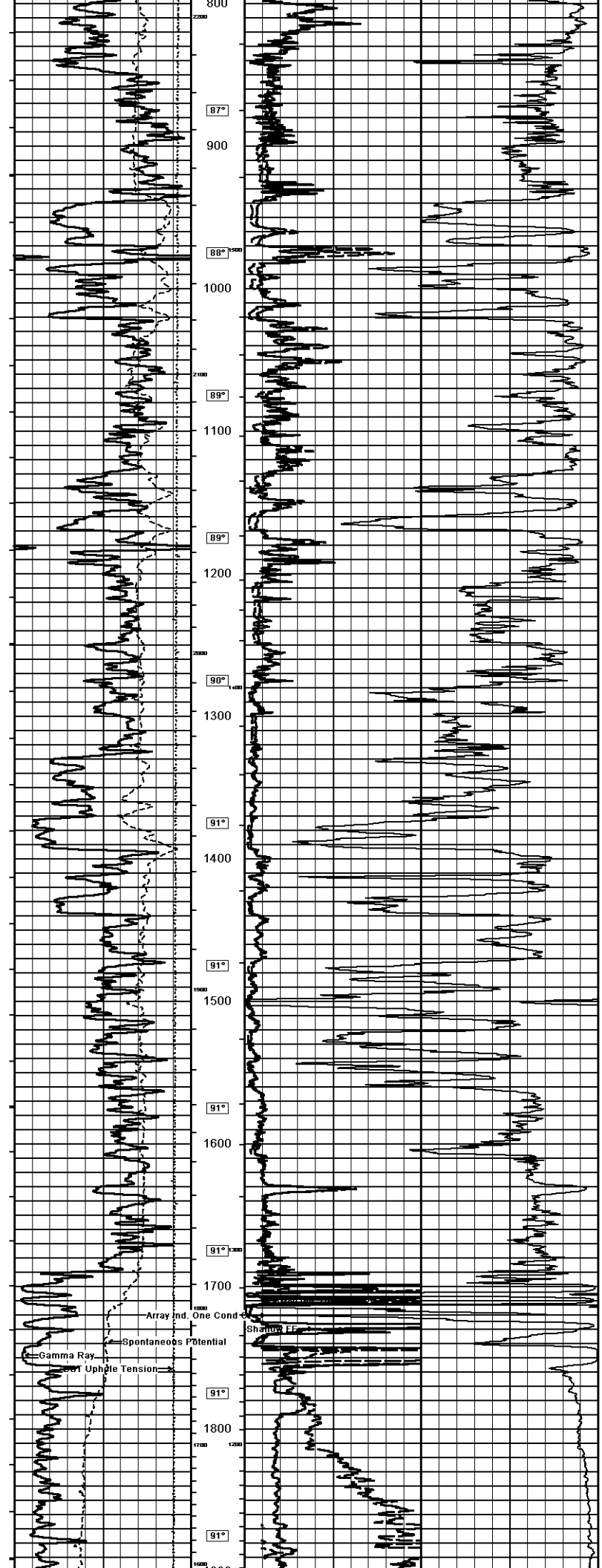
Permanent Datum: GL, Elevation 3129 feet
Log Measured From: KB, 10.00 feet above Permanent Datum
Drilling Measured From: KB

| | feet |
|---|---|
| Elevations: KB | 3139.00 |
| DF | 3137.00 |
| GL | 3129.00 |

| | |
|---|---|
| API Number | 15-171-20972 |
| Permit Number | |
| Run Number | ONE |
| Service Order | 3539932 |
| Depth Driller | 4870.00 feet |
| Depth Logger | 4868.00 feet |
| Bottom Logged Interval | 4865.00 feet |
| Top Logged Interval | 265.00 feet |
| Casing Driller | 267.00 feet |
| Casing Logger | 265.00 feet |
| Bit Size | 7.875 inches |
| Type Fluid in Hole | CHEMICAL |
| Density / Viscosity | 9.30 lb/USg 54.00 CP |
| pH / Fluid Loss | 9.60 ml/30Min |
| Sample Source | MUDPIT |
| Rm @ Measured Temp | 0.56 @ 80.0 ohm-m |
| Rmf @ Measured Temp | 0.45 @ 80.0 ohm-m |
| Rmc @ Measured Temp | 0.67 @ 80.0 ohm-m |
| Source Rmf / Rmc | CALC CALC |
| Rm @ BHT | 0.41 @109.0 ohm-m |
| Time Since Circulation | 5 HOURS |
| Max Recorded Temp | 109.00 deg F |
| Equipment / Base | 13244 LIB |
| Recorded By | ADAM SILL |
| Witnessed By | TIM PRIEST |
| DB # | LB13-280 |

1 INCH MAIN

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 04-OCT-2013 12:24
Filename: C:\Minimus 13.05.9583\Logs\Shakespeare Stoll Com..\Shakespeare Stoll Comm 1-27_002.dta
Recorded on 04-OCT-2013 09:36
System Versions: Logged with 13.05.9583 Plotted with 13.05.9583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Spontaneous Potential
Gamma Ray
Cal Uphole Tension
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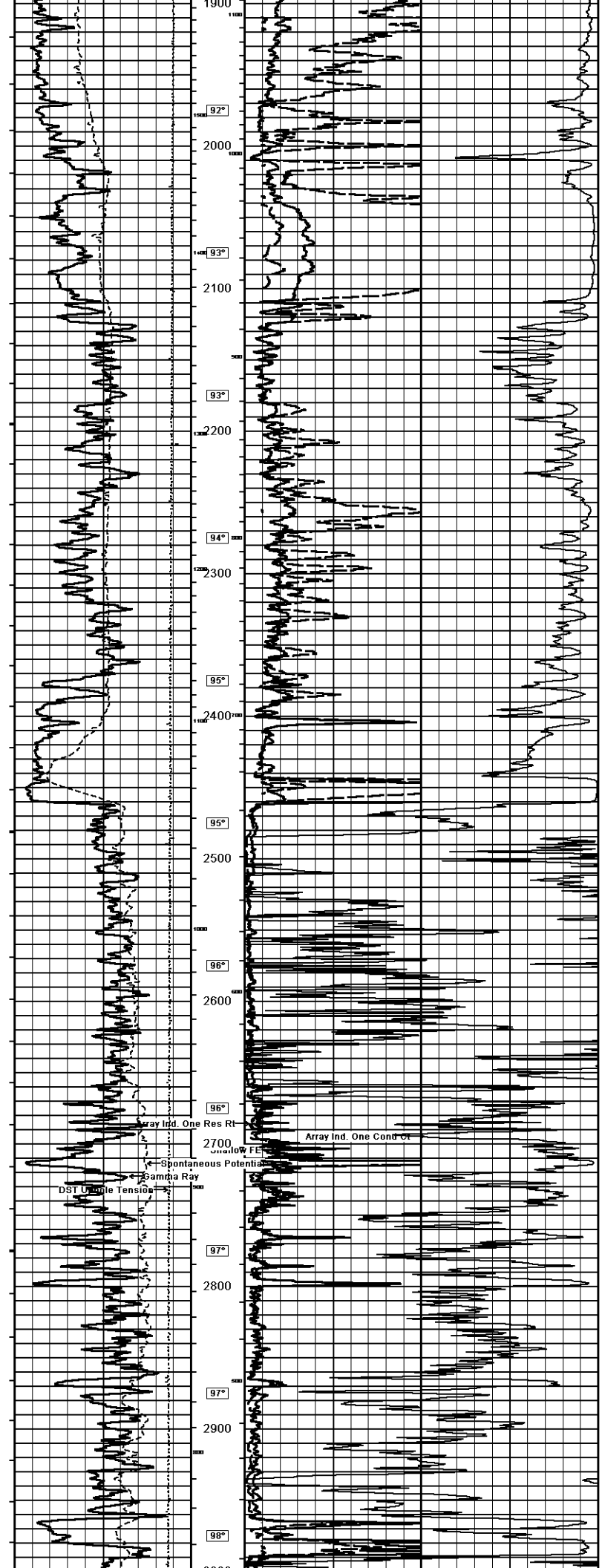
91°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Gamma Ray
DST Uphole Tension
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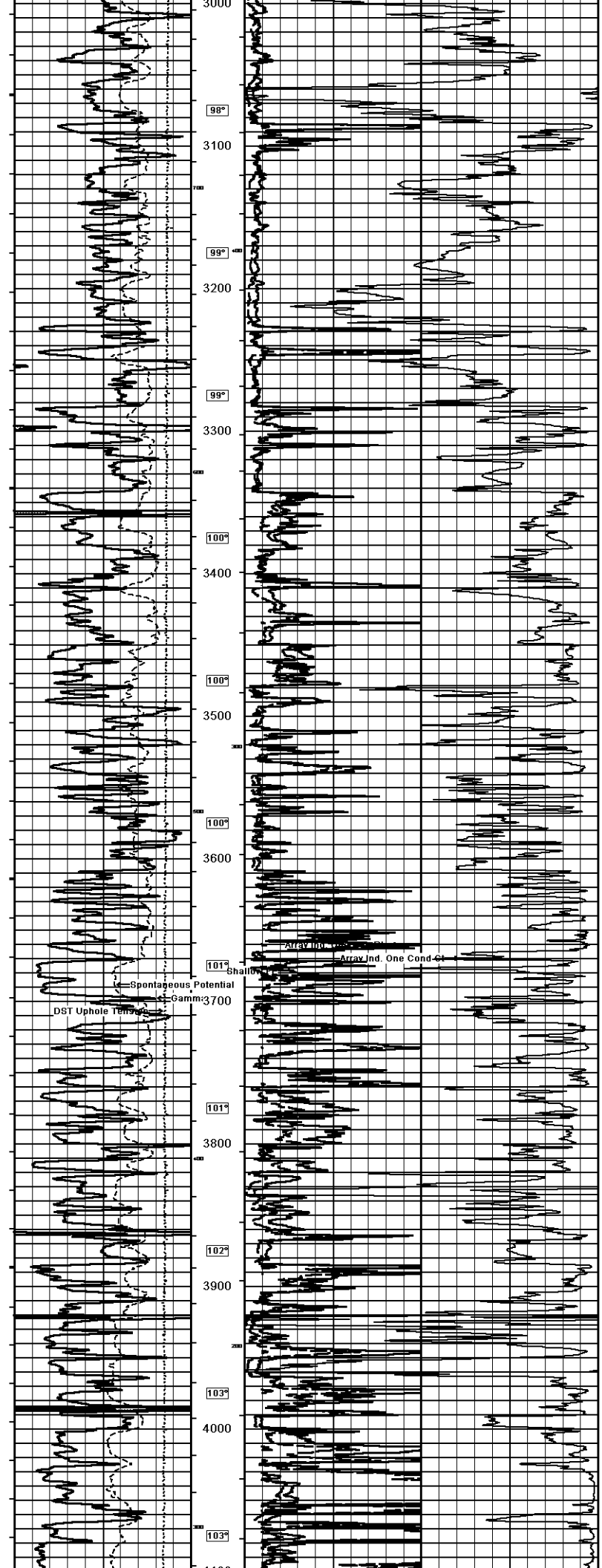
97°
2900
98°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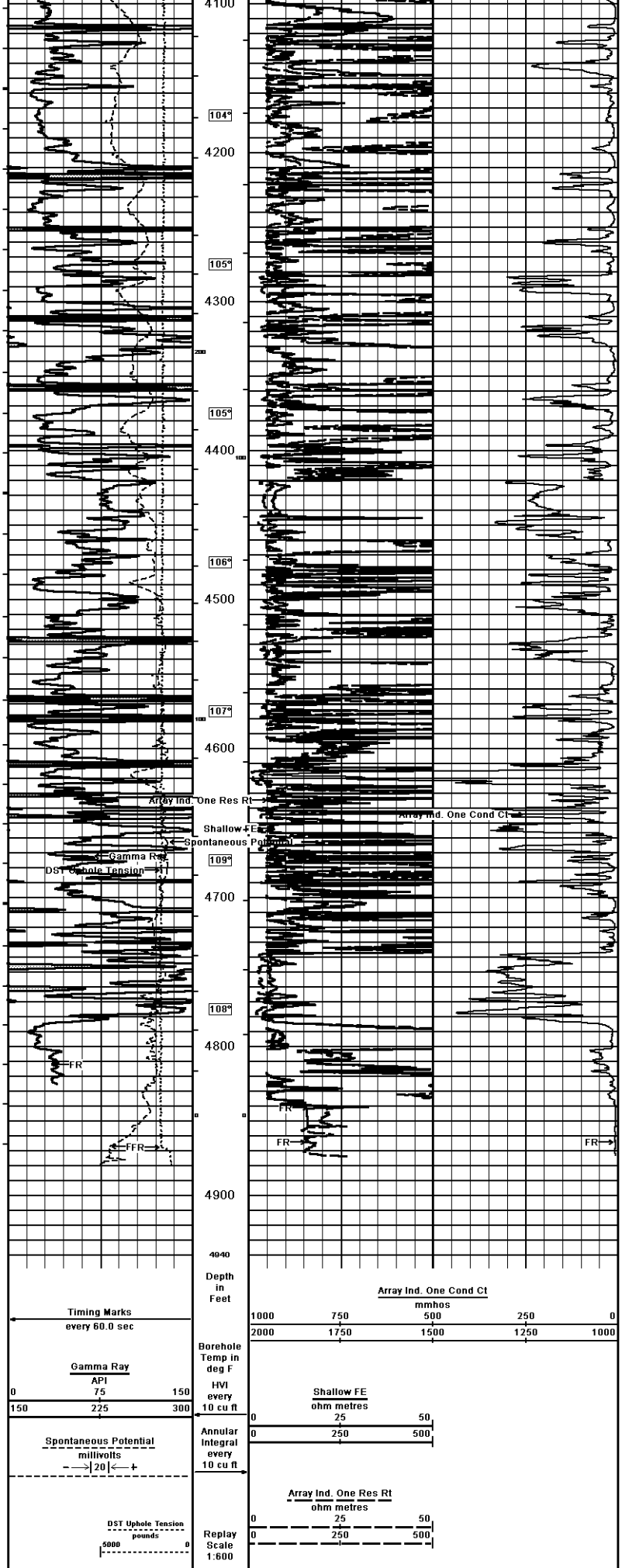


Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 04-OCT-2013 12:24
Filename: C:\Minimus 13.05.9583\Logs\Shakespeare Stoll Com...\Shakespeare Stoll Comm 1-27_002.dta
Recorded on 04-OCT-2013 09:36
System Versions: Logged with 13.05.9583 Plotted with 13.05.9583

1 INCH MAIN

| | |
|---|---|
| COMPANY | SHAKESPEARE OIL CO., INC. |
| WELL | STOLL COMM #1-27 |
| FIELD | PENCE WEST |
| PROVINCE/COUNTY | SCOTT |
| COUNTRY/STATE | U.S.A. / KANSAS |

| | | | | | |
|---|---|---|---|---|---|
| Elevation Kelly Bushing | 3139.00 | feet | First Reading | 4865.00 | feet |
| Elevation Drill Floor | 3137.00 | feet | Depth Driller | 4870.00 | feet |
| Elevation Ground Level | 3129.00 | feet | Depth Logger | 4868.00 | feet |

Weatherford

ARRAY INDUCTION
SHALLOW FOCUSED
ELECTRIC LOG

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/



September 05, 2024

Jeff Scarbrough
Shakespeare Oil Co., Inc.
202 W MAIN ST
SALEM, IL 62881-1519

Re: Plugging Application
API 15-171-20972-00-00
STOLL COMM. 1-27
NW/4 Sec.27-16S-34W
Scott County, Kansas

Dear Jeff Scarbrough:

The Conservation Division has received your Well Plugging Application (CP-1).

**Under K.A.R. 82-3-113(b)(2), you must notify DISTRICT 1 of your proposed plugging plan at least 5 days before plugging the well.** DISTRICT 1's phone number is (620) 682-7933. Failure to notify DISTRICT 1, or failure to file a Well Plugging Record (CP-4) after the well is plugged will result in a penalty recommendation.

**Under K.A.R. 82-3-600, you must file an Application for Surface Pit (CDP-1) if you wish to use a workover pit while plugging the well.** Failure to timely file a CDP-1, failure to timely remove fluids, or failure to timely file Closure of Surface Pit (CDP-4) or Waste Transfer (CDP-5) forms will result in a penalty recommendation.

This receipt does NOT constitute authorization to plug this well if you do not otherwise have the legal right to do so.

This receipt is VOID after March 04, 2025. If the well is not plugged by then, you will have to submit a new CP-1 if you wish to plug the well.

**The March 04, 2025 deadline does NOT override any compliance deadline given to you by Legal, District, or other Commission Staff.** Failure to comply with any given deadline will still result in the Commission assessing penalties, or taking other legal action.

Sincerely,
Production Department Supervisor

cc: DISTRICT 1