# ARRAY INDUCTION LOG

| | |
|---|---|
| COMPANY | PIONEER NATURAL RESOURCES |
| WELL | NORTH FORK RANCH 14 - 1R |
| FIELD | MAXWELL |
| PROVINCE/COUNTY | LAS ANIMAS |
| COUNTRY/STATE | U.S.A./COLORADO |
| LOCATION | 967' FSL & 698' FWL |

| SEC | TWP | RGE | Other Services |
|---|---|---|---|
| 1 | 33S | 68W | MPD |
| | | | MDN |

API Number 05-067-08870
Permit Number

Permanent Datum G.L., Elevation 7931 feet
Log Measured From K.B. @ 4 FEET above Permanent Datum
Drilling Measured From K.B.

| Elevations: | feet |
|---|---|
| KB | 7935.00 |
| DF | 7934.00 |
| GL | 7931.00 |

| | | | | |
|---|---|---|---|---|
| Date | 25-SEP-2009 | | | |
| Run Number | ONE | | | |
| Depth Driller | 2015.00 | feet | | |
| Depth Logger | 2008.00 | feet | | |
| First Reading | 2005.00 | feet | | |
| Last Reading | 702.00 | feet | | |
| Casing Driller | 699.00 | feet | | |
| Casing Logger | 702.00 | feet | | |
| Bit Size | 7.875 | inches | | |
| Hole Fluid Type | AIR | | | |
| Density / Viscosity | | | | |
| PH / Fluid Loss | | | | |
| Sample Source | FLOWLINE | | | |
| Rm @ Measured Temp | | | | |
| Rmf @ Measured Temp | | | | |
| Rmc @ Measured Temp | | | | |
| Source Rmf / Rmc | CALC | CALC | | |
| Rm @ BHT | | | | |
| Time Since Circulation | | | | |
| Max Recorded Temp | 94.00 | deg F | | |
| Equipment Name | COMPACT | | | |
| Equipment / Base | 13087 | FARM | | |
| Recorded By | L.PLAGGE | | | |
| Witnessed By | JACKIE LUTHER | | | |

## BOREHOLE RECORD

Last Edited: 25-SEP-2009 12:13

| Bit Size inches | Depth From feet | Depth To feet |
|---|---|---|
| 7.875 | 698.00 | 2015.00 |

## CASING RECORD

| Type | Size inches | Depth From feet | Shoe Depth feet | Weight pounds/ft |
|---|---|---|---|---|
| SURFACE | 8.625 | 0.00 | 698.00 | 24.00 |

## REMARKS

TOOLS RAN: SHA, MCG, MDN, MPD, SKJ, MFE, AND MAI RAN IN COMBINATION.

HARDWARE: MAI: TWO 0.5 INCH STANDOFFS USED.
MDN: DUAL NEUTRON BOWSPRING USED.
MPD: 8 INCH PROFILE PLATE USED.

WATER LEVEL AT 1650 FEET. FOAM IN HOLE COULD AFFECT NEUTRON READINGS.

CALIPER CHECK IN CASING PROVIDED, REFERENCE I.D. = 8.097" (8.625", 24.0 LB/FT CASING)

TOTAL HOLE VOLUME FROM TD TO INTERMEDIATE CASING = APPROX. 450 CU. FT.

ANNULAR VOLUME WITH 5.5 INCH PRODUCTION CASING = APPROX. 225 CU. FT.

PRESSURE CONTROL RAN PER CUSTOMER'S REQUEST.

PRESENTATIONS USED PER CUSTOMER'S REQUEST.

ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

TIGHT PULLS, BOREHOLE SIZE AND RUGOSITY WILL AFFECT REPEATABILITY AND DATA QUALITY.

NEUTRON PRESENTED ON A SANDSTONE SCALE.

2.65 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.

SERVICE ORDER: #3517966

RIG: PIONEER RIG #3

ENGINEER: L. PLAGGE

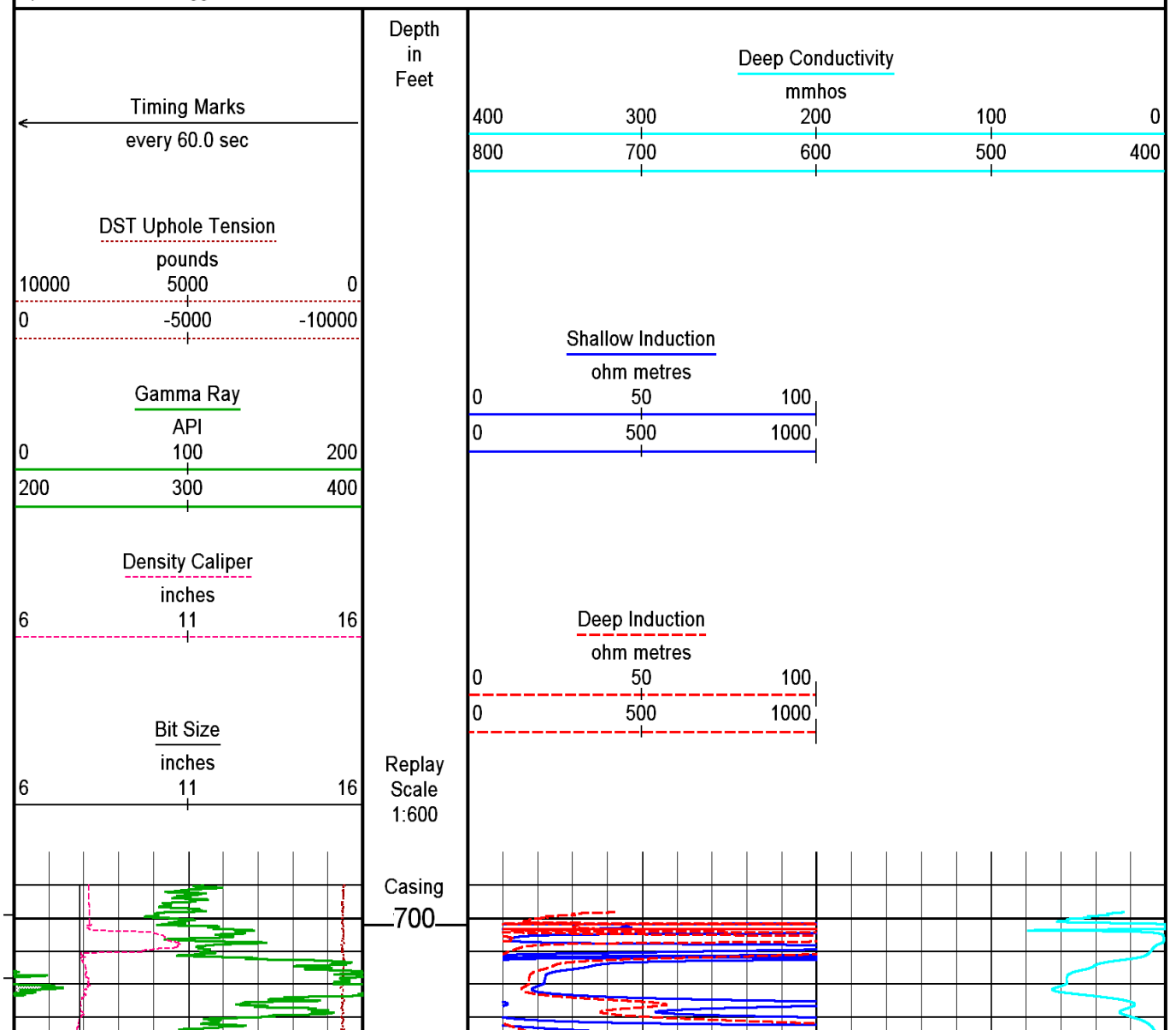
OPERATOR(S): J. BECKWITH

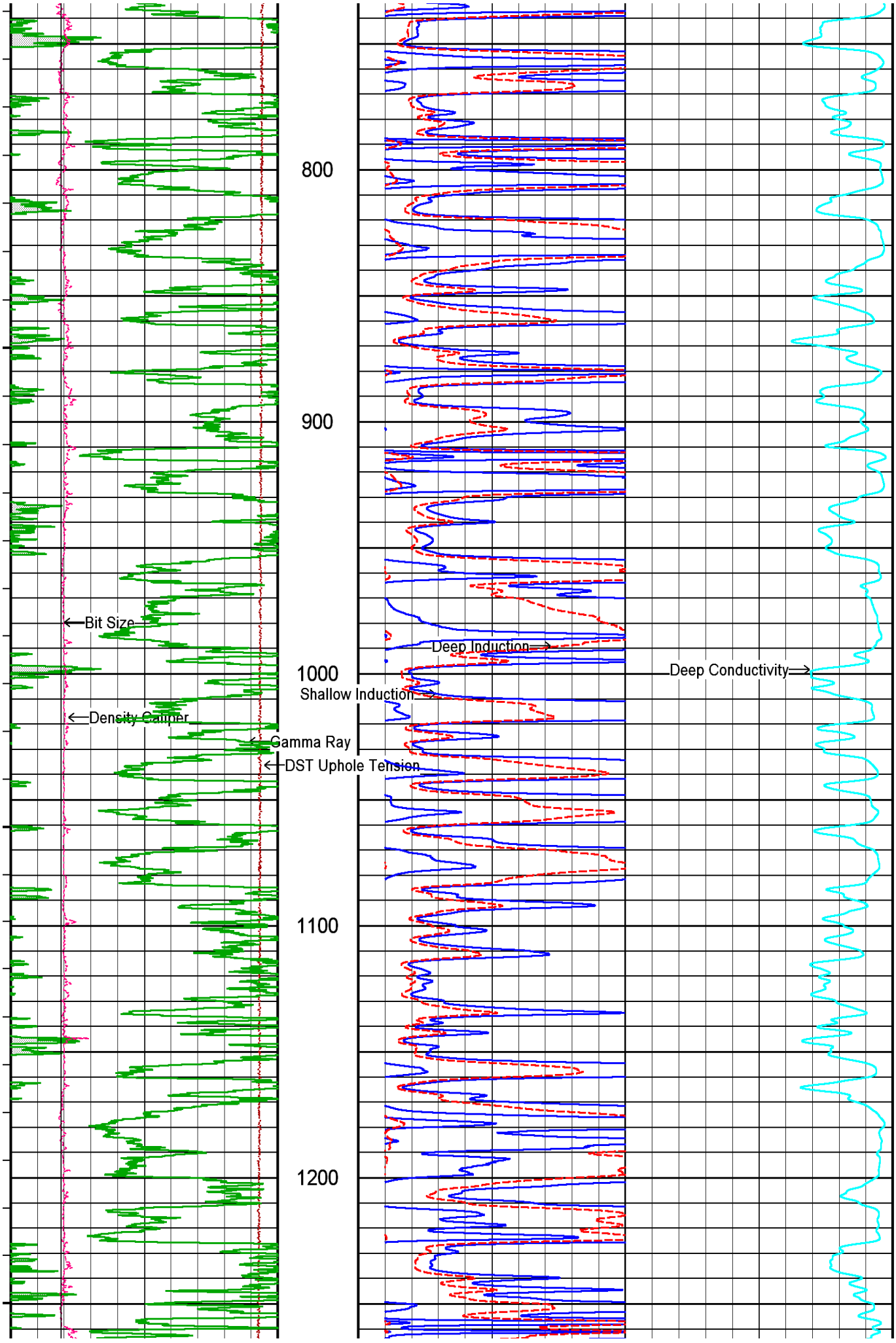


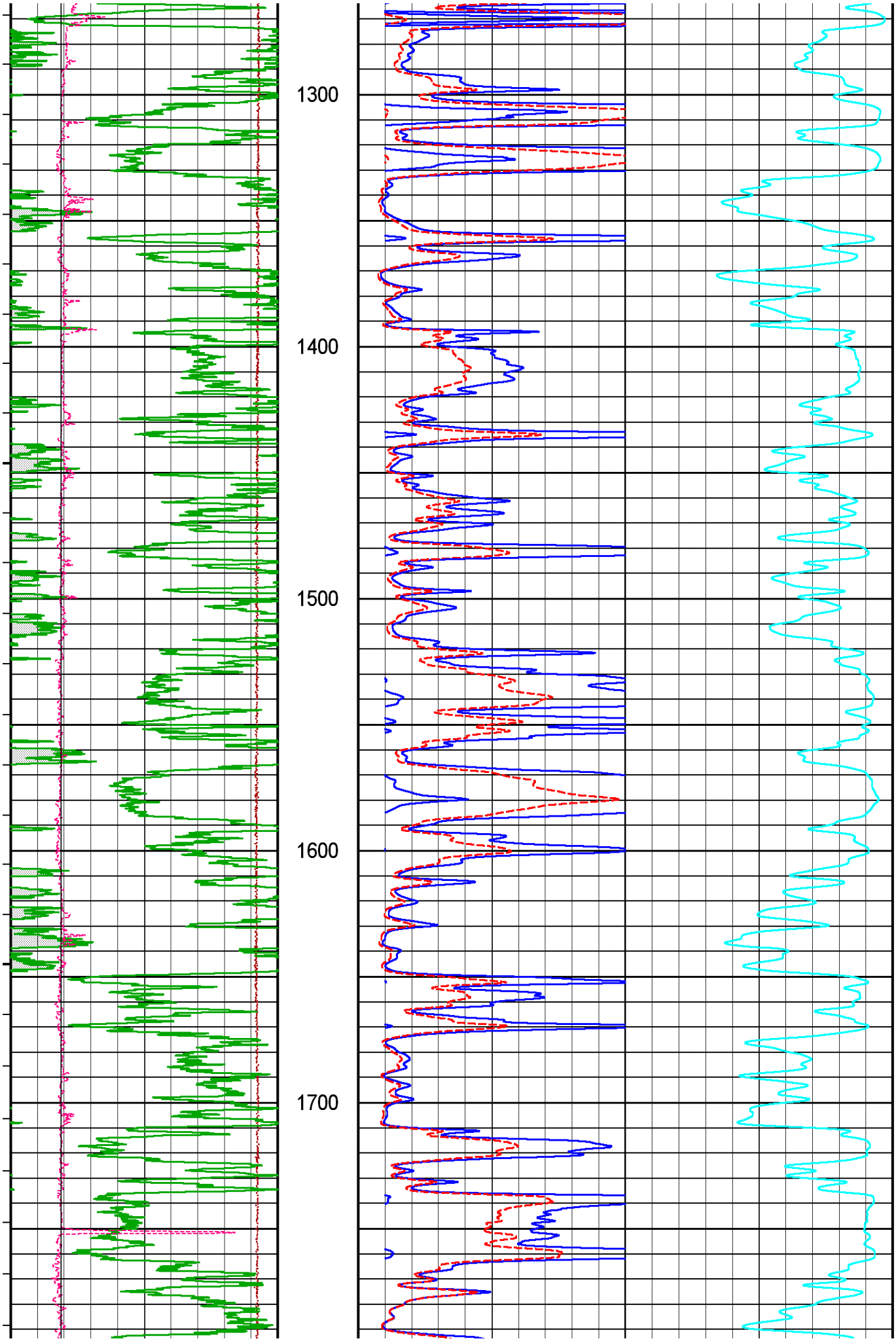
## 2 INCH MAIN LOG

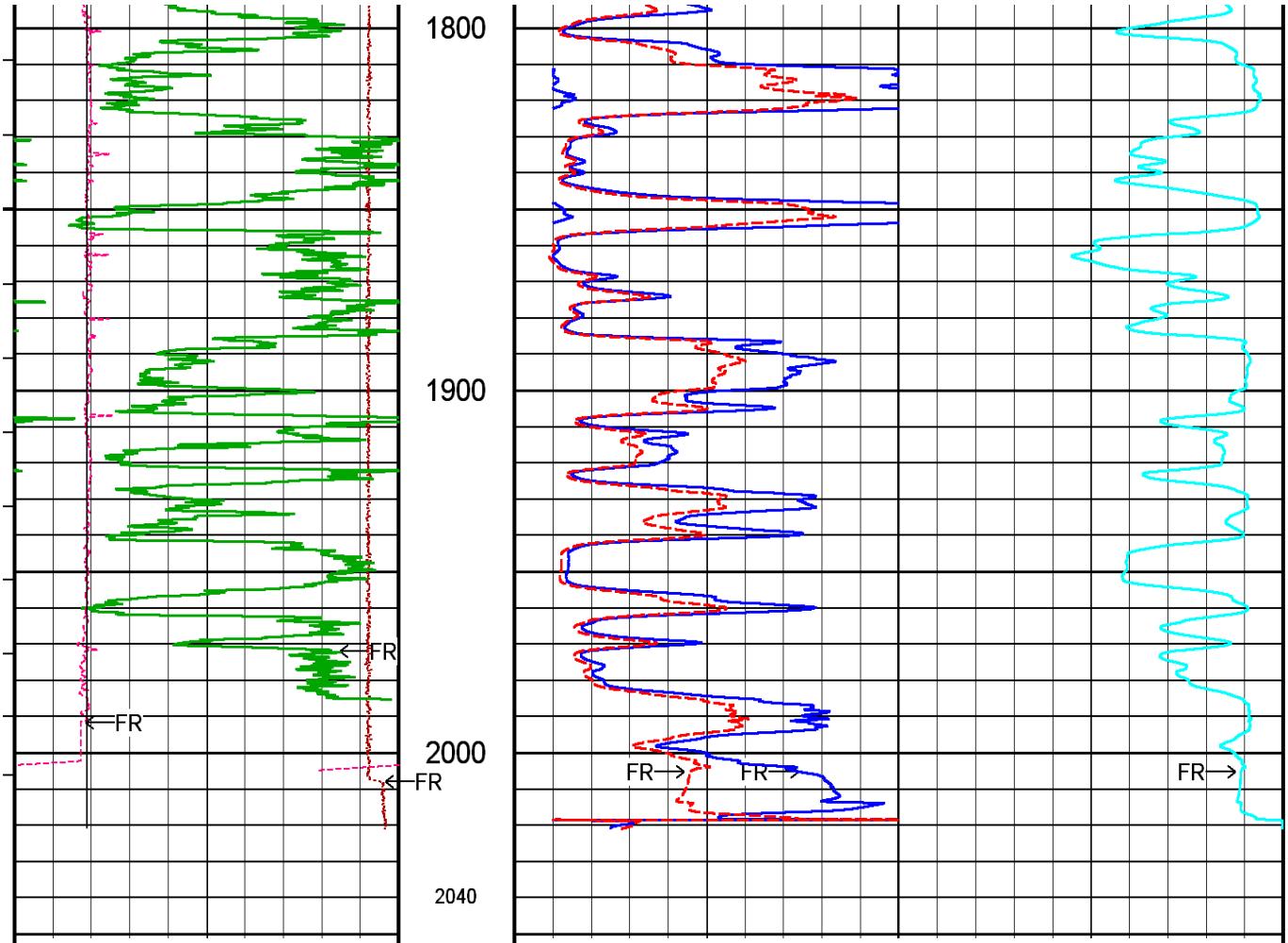
Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\Minimus\Logs\Pioneer Resources\North Fork Ranch 14-1R\MAIN2.dta
System Versions: Logged with 8.06.0241 Processed with 8.06.0241 Plotted with 8.06.0241

Plotted on 25-SEP-2009 15:56
Recorded on 25-SEP-2009 14:01




800
900
1000
1100
1200
Bit Size
Density Caliper
Gamma Ray
DST Uphole Tension
Deep Induction
Shallow Induction
Deep Conductivity


1300
1400
1500
1600
1700




Timing Marks
every 60.0 sec

DST Uphole Tension
pounds
10000 5000 0
0 -5000 -10000

Gamma Ray
API
0 100 200
200 300 400

Density Caliper
inches
6 11 16

Bit Size
inches
6 11 16

Depth
in
Feet

Replay
Scale
1:600

Deep Conductivity
mmhos
400 300 200 100 0
800 700 600 500 400

Shallow Induction
ohm metres
0 50 100
0 500 1000

Deep Induction
ohm metres
0 50 100
0 500 1000

Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\Minimus\Logs\Pioneer Resources\North Fork Ranch 14-1R\MAIN2.dta

Plotted on 25-SEP-2009 15:56
Recorded on 25-SEP-2009 14:01

System Versions: Logged with 8.06.0241 Processed with 8.06.0241 Plotted with 8.06.0241

## 2 INCH MAIN LOG

## 5 INCH MAIN LOG

Depth Based Data - Maximum Sampling Increment 2.5cm
Filename: C:\Minimus\Logs\Pioneer Resources\North Fork Ranch 14-1R\MAIN2.dta
System Versions: Logged with 8.06.0241 Processed with 8.06.0241 Plotted with 8.06.0241

Plotted on 25-SEP-2009 15:56
Recorded on 25-SEP-2009 14:01

Timing Marks
every 60.0 sec

DST Uphole Tension
pounds
10000 5000 0

Gamma Ray
API
0 100 200
200 300 400

Density Caliper
inches
6 11 16

Bit Size
inches
6 11 16

Depth in Feet

Borehole Temp in deg F

HVI every 10 cu ft

Annular Integral every 10 cu ft

Replay Scale 1:240

688

Casing
700

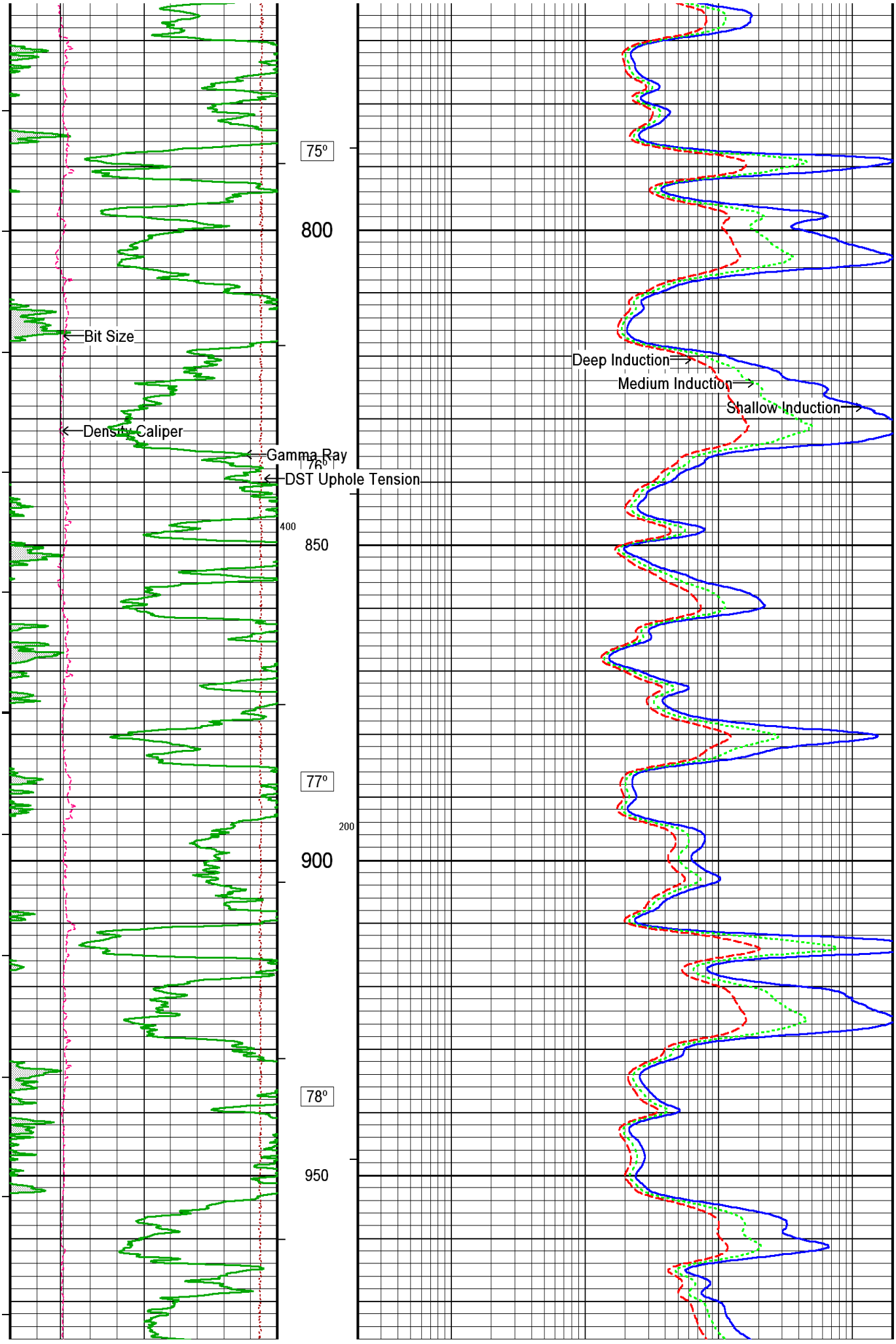
74°

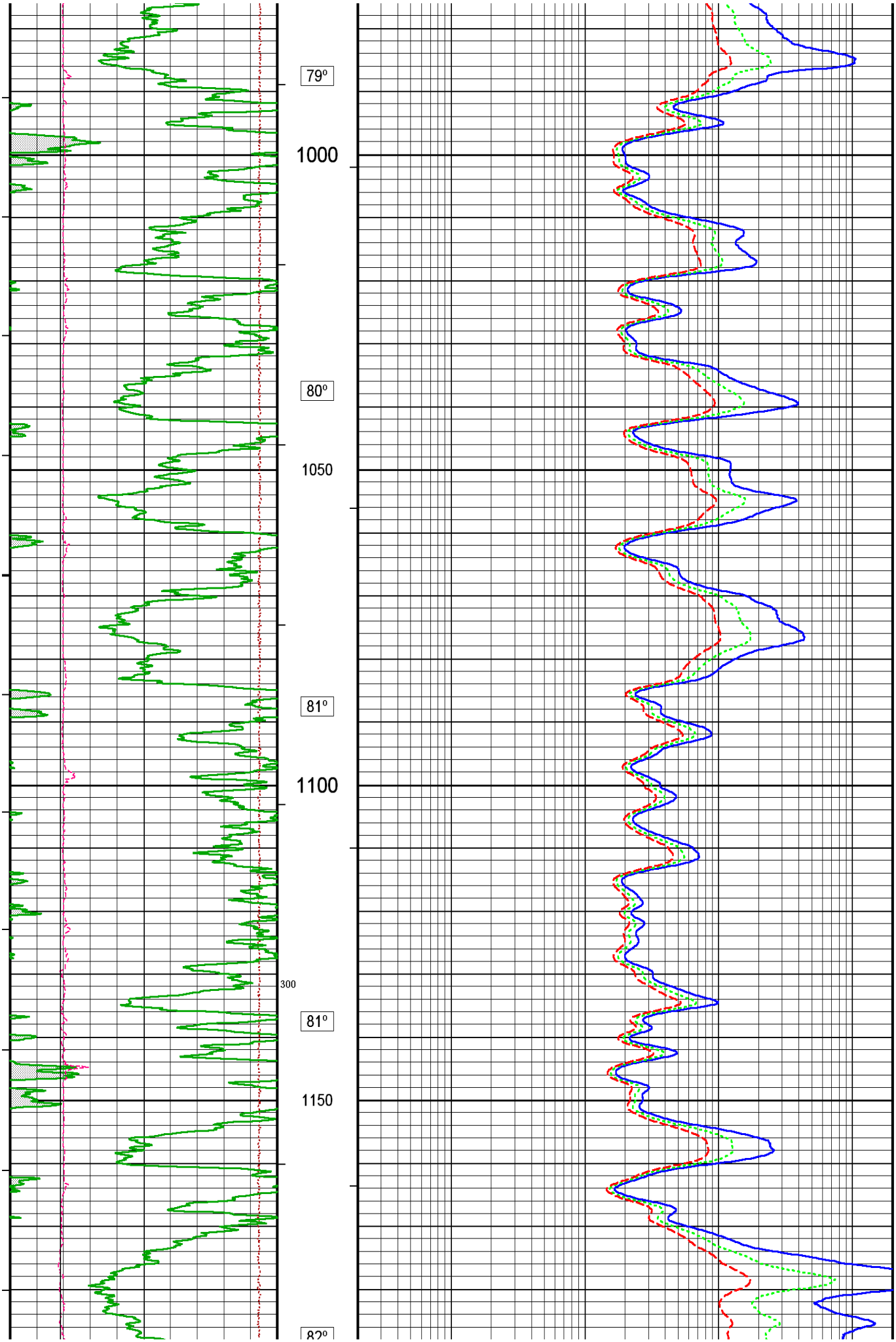
750

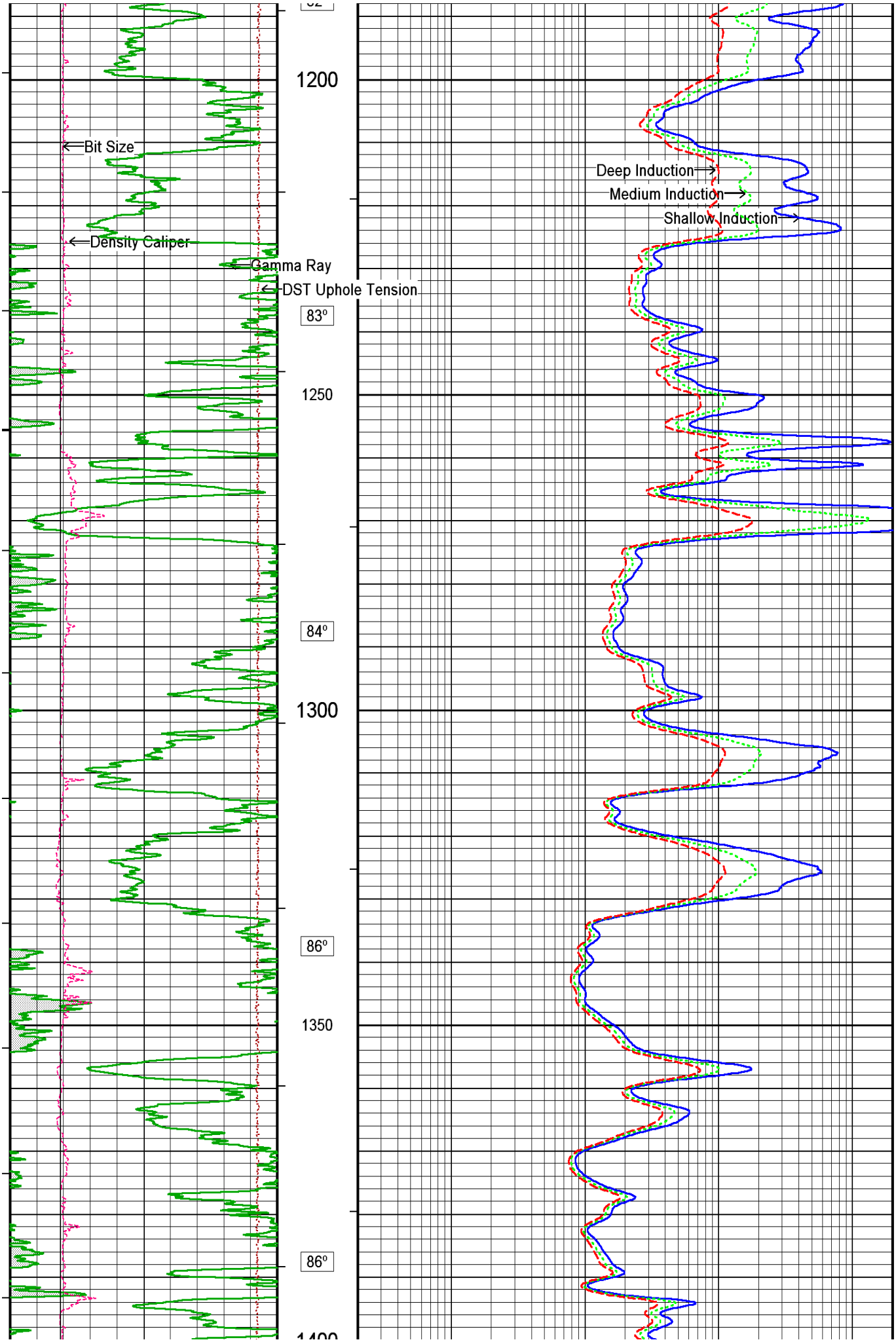
Shallow Induction
ohm metres
0.20 1 10 100 1000 2000

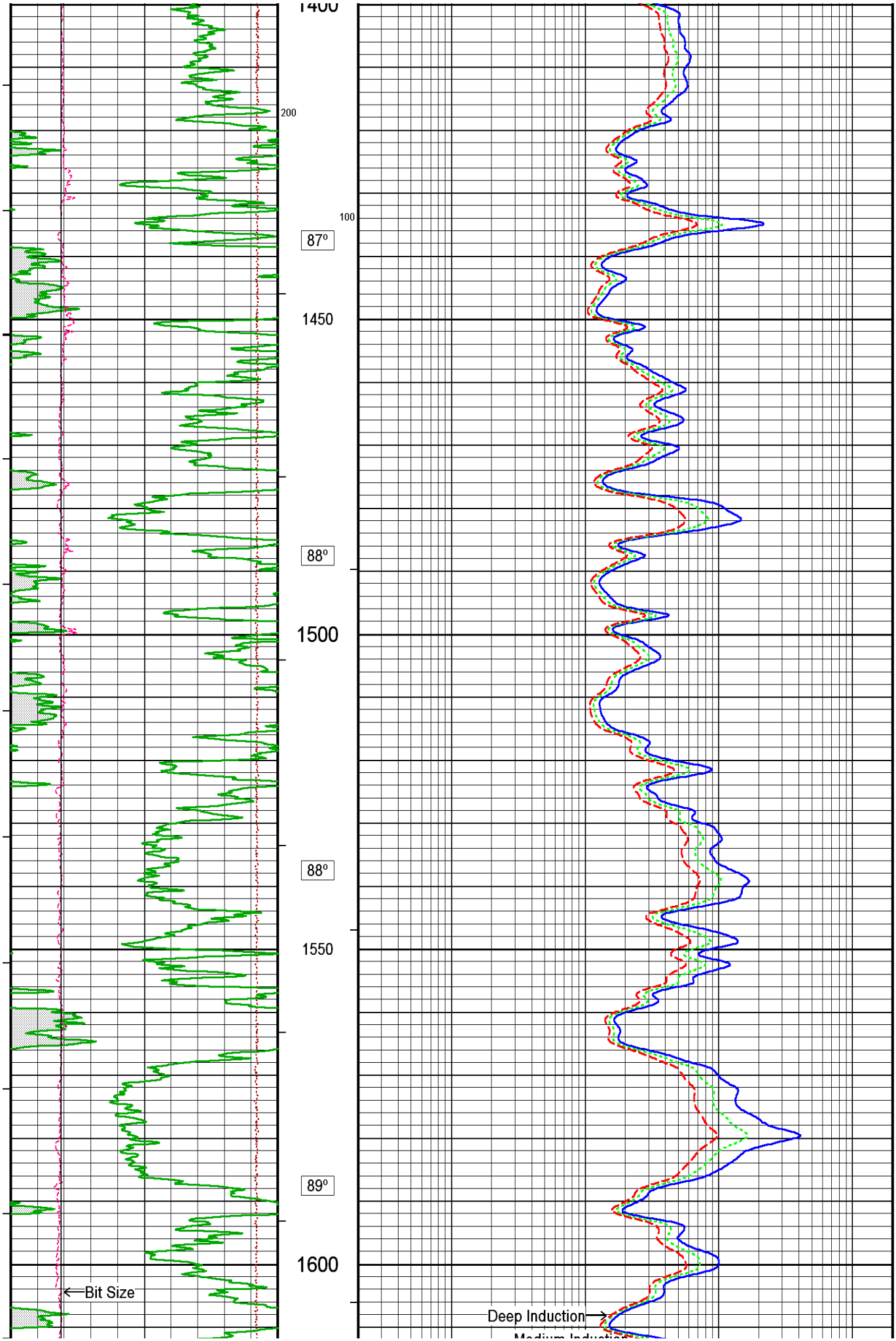
Medium Induction
ohm metres
0.20 1 10 100 1000 2000

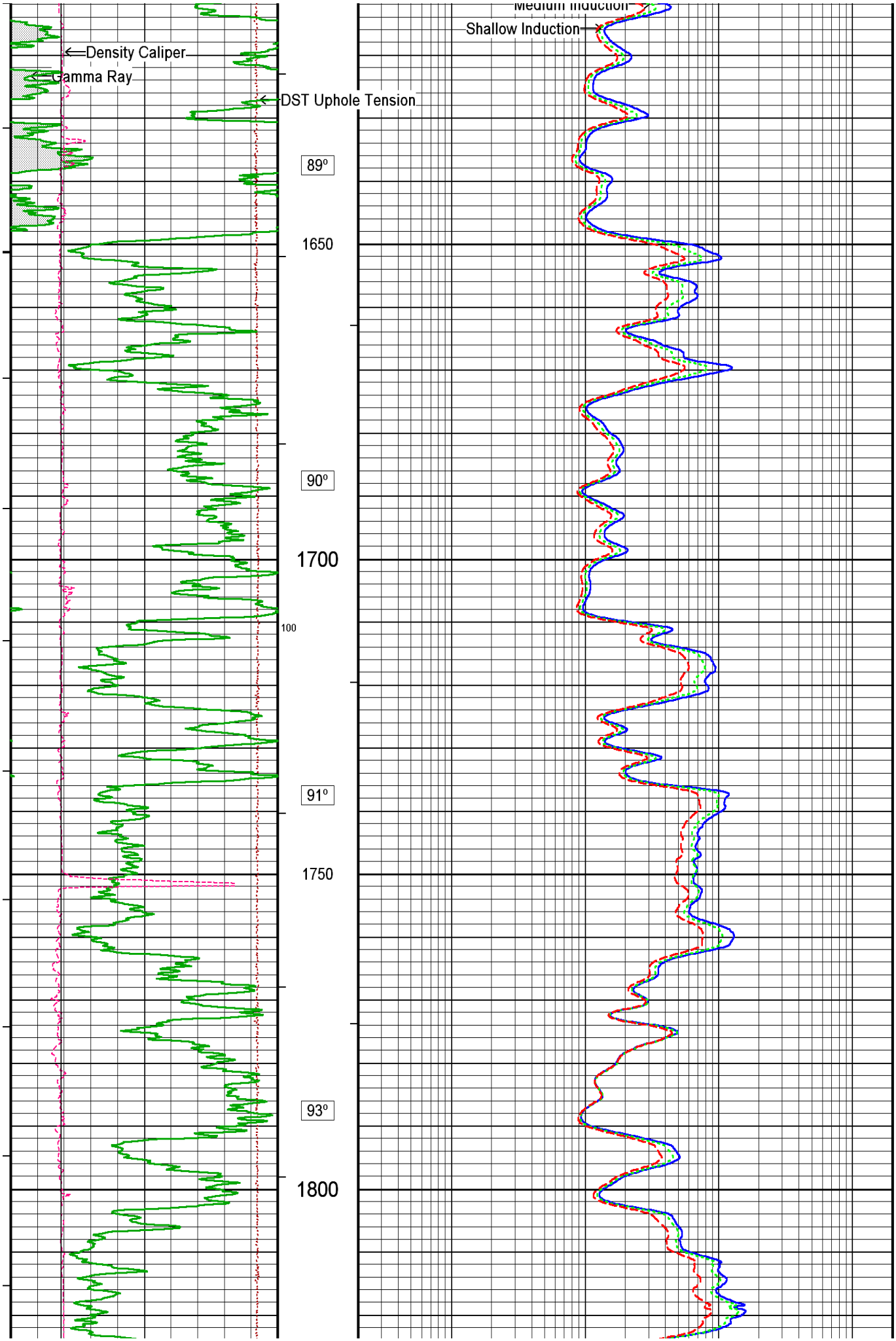
Deep Induction
ohm metres
0.20 1 10 100 1000 2000

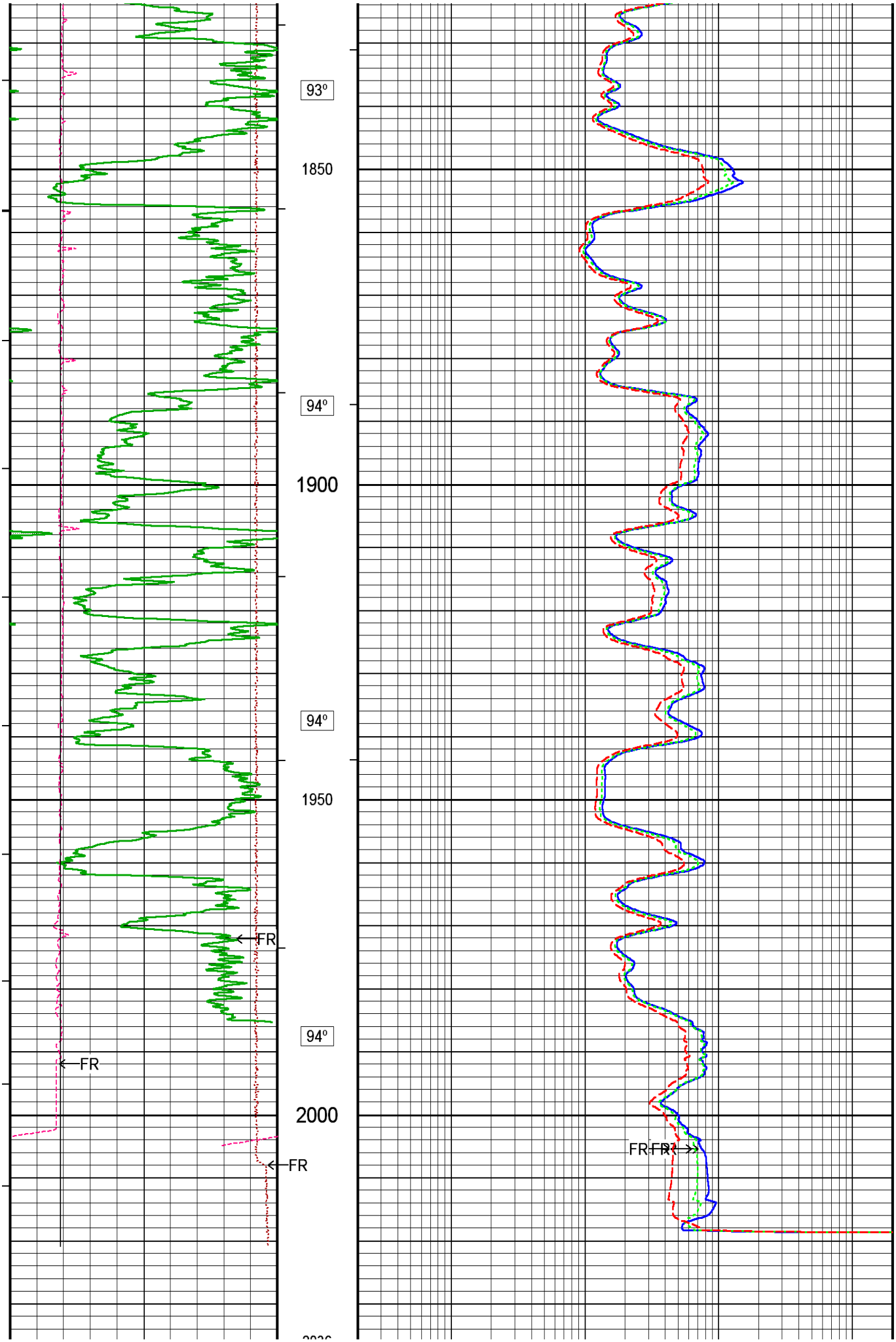

75°
800
Bit Size
Deep Induction
Medium Induction
Shallow Induction
Density Caliper
Gamma Ray
76°
DST Uphole Tension
400
850
77°
200
900
78°
950

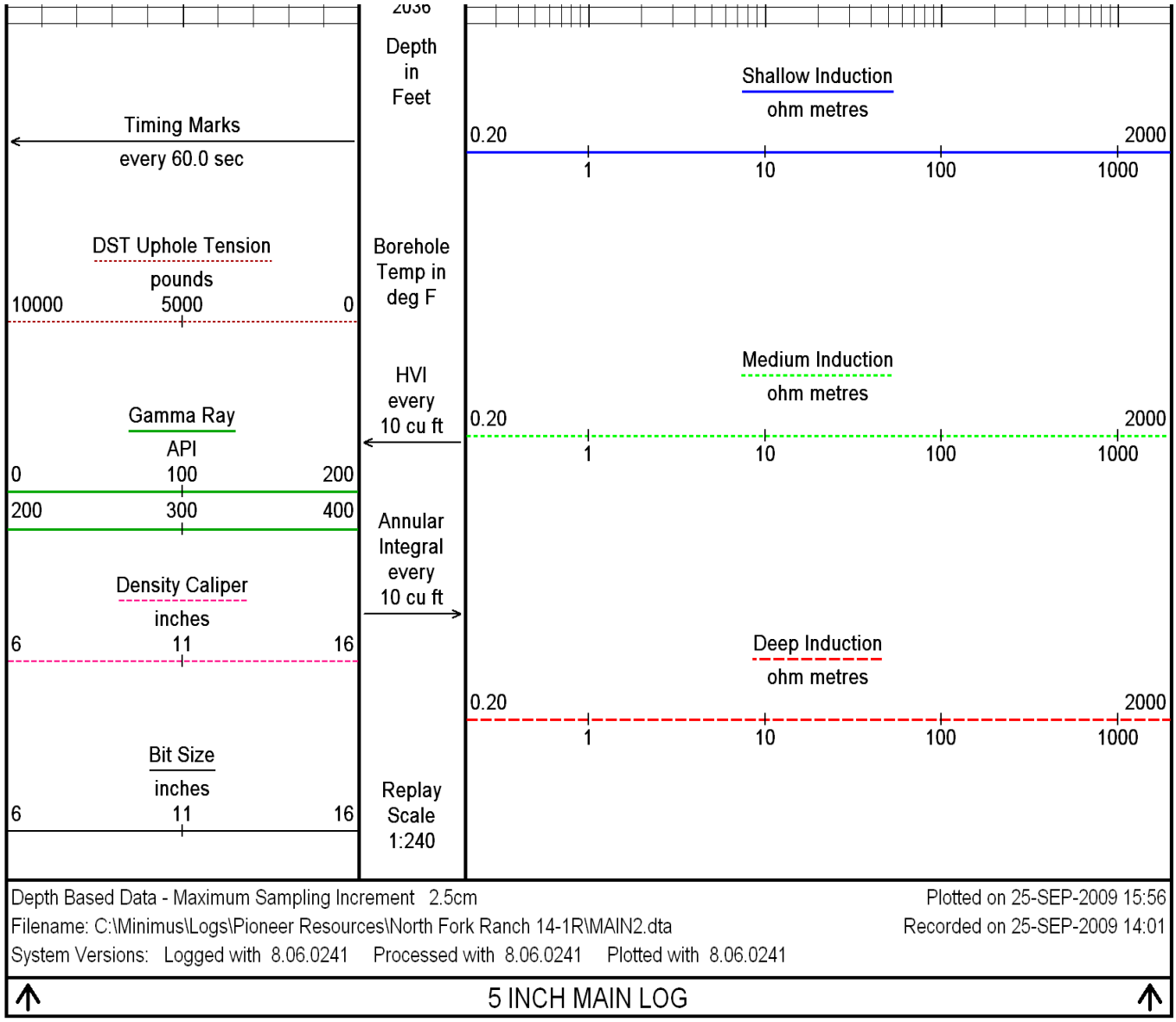

79°
1000
80°
1050
81°
1100
300
81°
1150
82°


1200
Bit Size
Density Caliper
Gamma Ray
DST Uphole Tension
83°
1250
84°
1300
86°
1350
86°
Deep Induction
Medium Induction
Shallow Induction


1400
200
100
87°
1450
88°
1500
88°
1550
89°
1600
←Bit Size
Deep Induction→


Medium Induction
Shallow Induction
Density Caliper
Gamma Ray
DST Uphole Tension
89°
1650
90°
1700
100
91°
1750
93°
1800


93°
1850
94°
1900
94°
1950
FR
94°
FR
2000
FR
FR FR


2036
Depth in Feet
Timing Marks
every 60.0 sec
DST Uphole Tension
pounds
10000 5000 0
Borehole Temp in deg F
Gamma Ray
API
0 100 200
200 300 400
HVI every 10 cu ft
Annular Integral every 10 cu ft
Density Caliper
inches
6 11 16
Bit Size
inches
6 11 16
Replay Scale 1:240
Shallow Induction
ohm metres
0.20 2000
1 10 100 1000
Medium Induction
ohm metres
0.20 2000
1 10 100 1000
Deep Induction
ohm metres
0.20 2000
1 10 100 1000
Depth Based Data - Maximum Sampling Increment 2.5cm
Plotted on 25-SEP-2009 15:56
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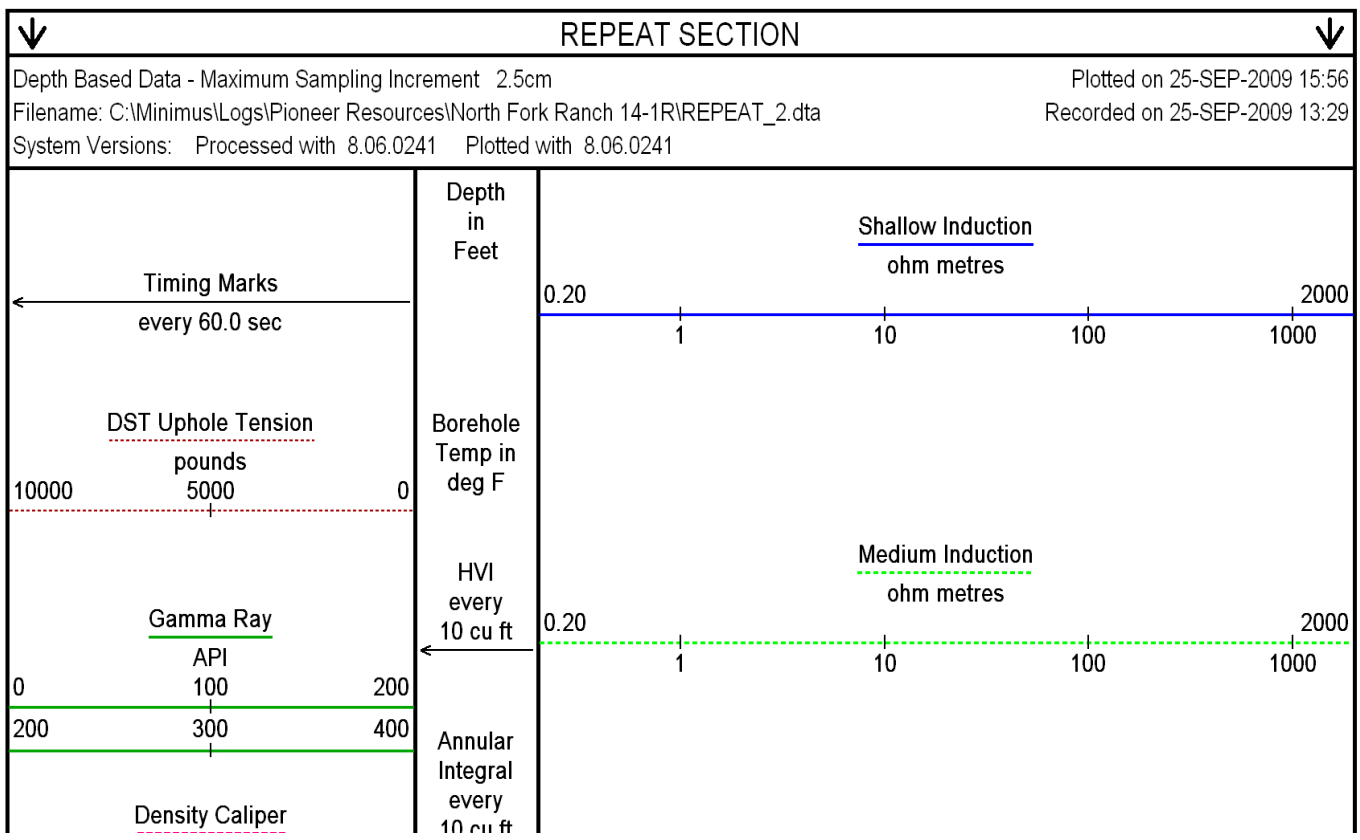
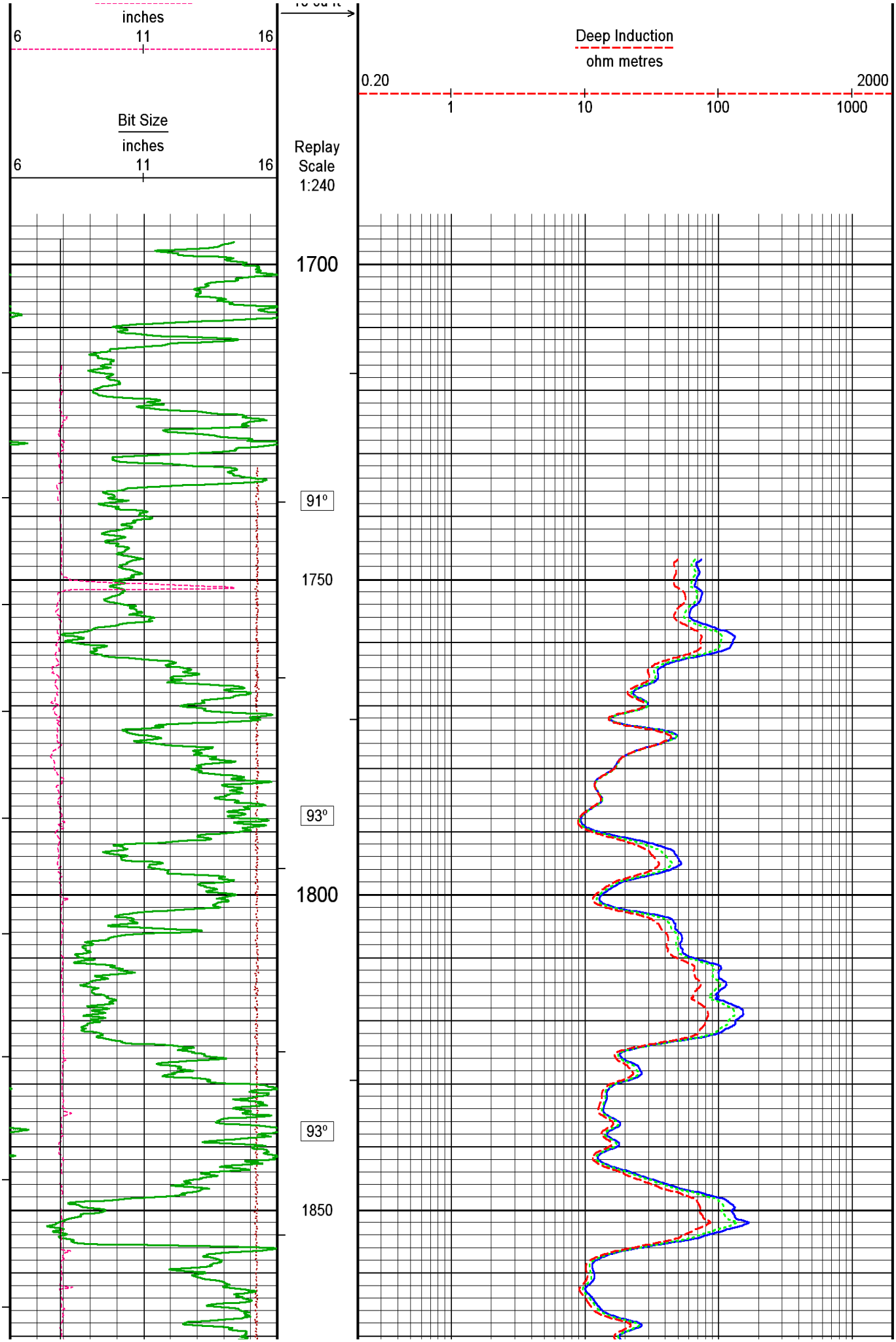
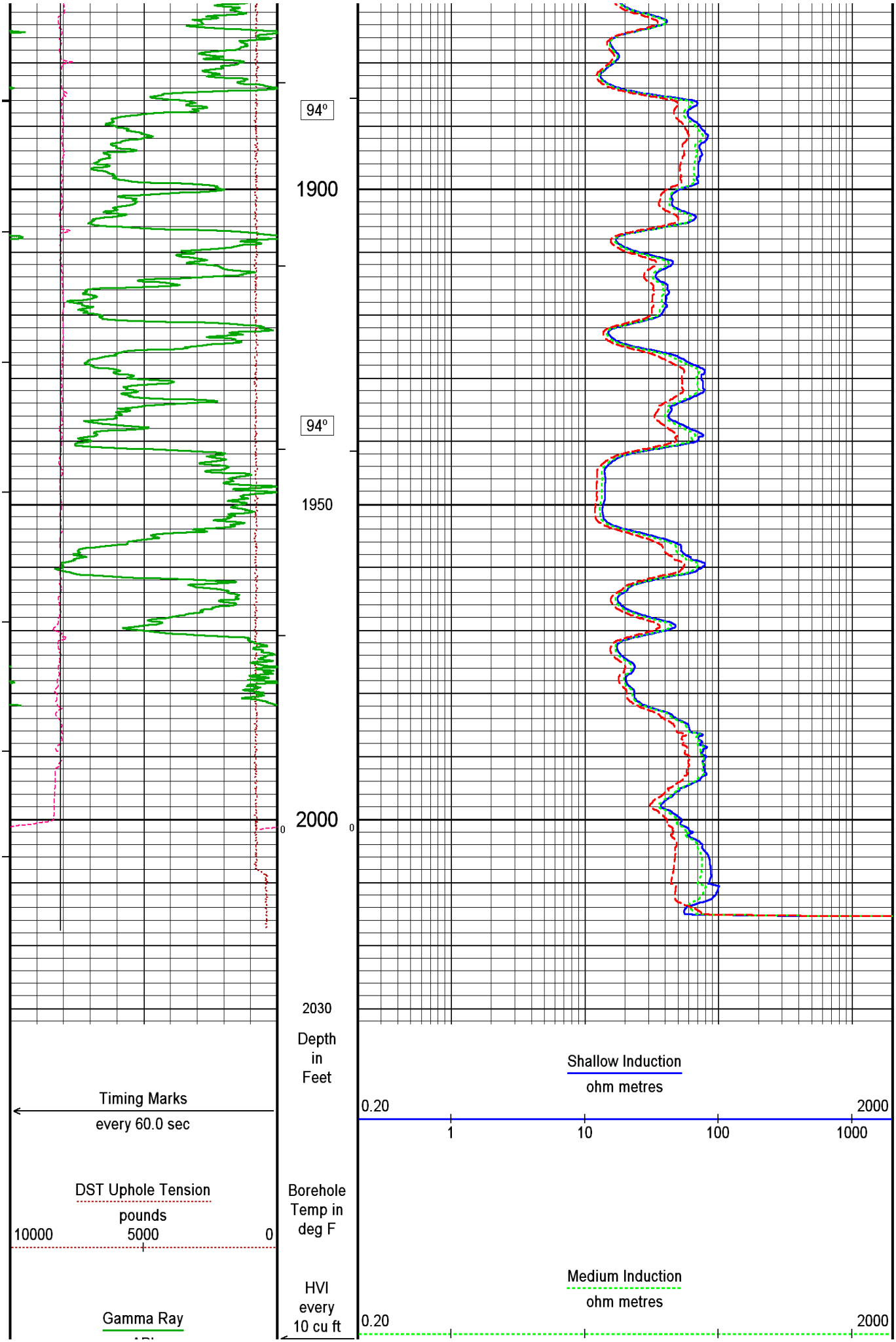
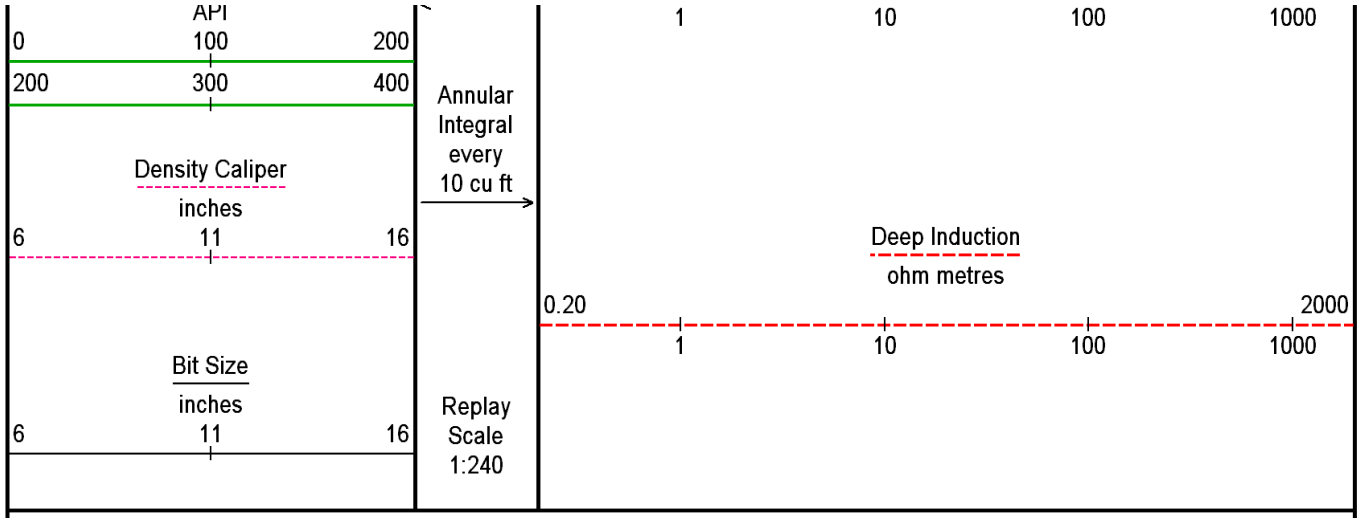
Recorded on 25-SEP-2009 14:01
System Versions: Logged with 8.06.0241 Processed with 8.06.0241 Plotted with 8.06.0241
5 INCH MAIN LOG


REPEAT SECTION
Depth Based Data - Maximum Sampling Increment 2.5cm
Plotted on 25-SEP-2009 15:56
Filename: C:\Minimus\Logs\Pioneer Resources\North Fork Ranch 14-1R\REPEAT_2.dta
Recorded on 25-SEP-2009 13:29
System Versions: Processed with 8.06.0241 Plotted with 8.06.0241
Depth in Feet
Timing Marks
every 60.0 sec
DST Uphole Tension
pounds
10000 5000 0
Borehole Temp in deg F
Gamma Ray
API
0 100 200
200 300 400
HVI every 10 cu ft
Annular Integral every
Density Caliper
Shallow Induction
ohm metres
0.20 2000
1 10 100 1000
Medium Induction
ohm metres
0.20 2000
1 10 100 1000


inches
6
11
16
Bit Size
inches
6
11
16
Replay
Scale
1:240
Deep Induction
ohm metres
0.20
2000
1
10
100
1000
1700
91°
1750
93°
1800
93°
1850


94°
1900
94°
1950
2000
0
0
2030
Depth
in
Feet
Timing Marks
every 60.0 sec
DST Uphole Tension
pounds
10000
5000
0
Gamma Ray
Borehole
Temp in
deg F
HVI
every
10 cu ft
Shallow Induction
ohm metres
0.20
2000
1
10
100
1000
Medium Induction
ohm metres
0.20
2000




Depth Based Data - Maximum Sampling Increment 2.5cm — Plotted on 25-SEP-2009 15:57
Filename: C:\Minimus\Logs\Pioneer Resources\North Fork Ranch 14-1R\REPEAT_2.dta — Recorded on 25-SEP-2009 13:29
System Versions: Processed with 8.06.0241 Plotted with 8.06.0241

REPEAT SECTION

## BEFORE SURVEY CALIBRATION

C:\Minimus\Logs\Pioneer Resources\North Fork Ranch 14-1R\MAIN.dta

### General Constants All 000

Last Edited on 25-SEP-2009,13:23

| | | |
|---|---|---|
| **General Parameters** | | |
| Mud Resistivity | 1000.000 | ohm-metres |
| Mud Resistivity Temperature | 75.000 | degrees F |
| Water Level | 0.000 | feet |
| Density/Neutron Processing | Air Hole | |
| **Hole/Annular Volume and Differential Caliper Parameters** | | |
| HVOL Caliper 1 | Density Caliper | |
| HVOL Caliper 2 | None | |
| Annular Volume Diameter | 5.500 | inches |
| Caliper for Differential Caliper | None | |
| **Rwa Parameters** | | |
| Porosity used | Base Density Porosity | |
| Resistivity used | Deep Induction | |
| RWA Constant A | 0.610 | |
| RWA Constant M | 2.150 | |

### Down-hole Tension Calibration SMS 000

Field Calibration on 06-SEP-2009 16:03

| Reading No | Measured | Calibrated (lbs) |
|---|---|---|
| 1 | 14737.51 | 0.00 |
| 2 | 15698.25 | 352.00 |

### High Resolution Temperature Calibration MCG 247

Field Calibration on 25-SEP-2009,11:25

| | Measured | Calibrated(Deg F) |
|---|---|---|
| Lower | 0.00 | 0.00 |
| Upper | 0.00 | 0.00 |

### High Resolution Temperature Constants MCG 247

Last Edited on 6-SEP-2009,12:34

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

### SP Calibration MCG 247

Field Calibration on 25-SEP-2009,11:24

| | Measured | Calibrated (mV) |
|---|---|---|
| Reference 1 | 96.1 | 101.5 |
| Reference 2 | -103.9 | -97.7 |

## Gamma Calibration MCG 247

Field Calibration on 25-SEP-2009 11:29

| | Measured | Calibrated (API) |
|---|---|---|
| Background | 132 | 88 |
| Calibrator (Gross) | 920 | 613 |
| Calibrator (Net) | 787 | 525 |

## Gamma Constants MCG 247

Last Edited on 25-SEP-2009,13:23

| | | |
|---|---|---|
| Gamma Calibrator Number | GRC-111 | |
| Mud Density | 1.00 | gm/cc |
| Caliper Source for Processing | Density Caliper | |
| Tool Position | Eccentred | |
| Concentration of KCl | 0.00 | kppm |

## Neutron Calibration MDN 216

Base Calibration on 19-AUG-2009 10:59
Field Check on 25-SEP-2009 11:36

Base Calibration

| | Measured | | Calibrated (cps) | |
|---|---|---|---|---|
| | Near | Far | Near | Far |
| | 2957 | 93 | 3714 | 110 |
| Ratio | 31.832 | | 33.764 | |

Field Calibrator at Base

| | Calibrated (cps) | |
|---|---|---|
| | 2334 | 3367 |
| Ratio | 0.693 | |

Field Check

| | Calibrated (cps) | |
|---|---|---|
| | 2394 | 3390 |
| Ratio | 0.706 | |

## Neutron Constants MDN 216

Last Edited on 25-SEP-2009,13:23

| | | |
|---|---|---|
| Neutron Source Id | P21131B | |
| Neutron Jig Number | NJ5236 | |
| 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 | 7.00 | cu |
| Dolomite Sigma | 4.70 | cu |
| Formation Pressure Source | None | |
| Formation Pressure | N/A | kpsi |
| Temperature Source | None | |
| Temperature | N/A | degrees F |
| Mud Salinity | 0.00 | kppm |
| Formation Fluid Salinity Source | None | |
| Formation Fluid Salinity | N/A | kppm |
| Barite Mud Correction | Not Applied | |

## High Resolution Temperature Calibration MAI 213

Field Calibration on 10-SEP-2009,10:36

| | Measured | Calibrated(Deg F) |
|---|---|---|
| Lower | 10.00 | 50.00 |
| Upper | 100.00 | 212.00 |

## High Resolution Temperature Constants MAI 213

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

## Induction Calibration MAI 213

Base Calibration on 22-JAN-2007,12:35
Field Check on 25-SEP-2009 11:42

Base Calibration

| Test Loop Calibration | Measured | | Calibrated (mmho/m) | |
|---|---|---|---|---|
| Channel | Low | High | Low | High |
| 1 | 16.8 | 462.4 | 9.3 | 966.2 |
| 2 | 6.2 | 381.7 | 7.6 | 821.4 |
| 3 | 3.6 | 254.8 | 5.2 | 566.0 |
| 4 | 2.3 | 132.3 | 2.6 | 279.2 |

| | | | | |
|---|---|---|---|---|
| Array Temperature | | 73.6 | Deg F | |

| Channel | Base Check (mmho/m) | | Field Check (mmho/m) | |
|---|---|---|---|---|
| | Low | High | Low | High |
| 1 | 13.6 | 3937.6 | 12.7 | 3934.0 |
| 2 | 30.1 | 3541.7 | 29.8 | 3538.7 |
| 3 | 28.8 | 3115.6 | 28.5 | 3112.8 |
| 4 | 19.0 | 2097.7 | 18.9 | 2095.7 |
| Deep | 17.3 | 2079.1 | 17.1 | 2076.9 |
| Medium | 42.5 | 4090.1 | 42.3 | 4086.6 |
| Shallow | 45.2 | 5162.2 | 44.8 | 5158.2 |
| Array Temperature | | 62.4 | 49.9 | Deg F |

## Induction Constants MAI 213

Last Edited on 25-SEP-2009,13:25

| | | |
|---|---|---|
| Induction Model | ENHANCED | |
| 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 | N/A | |
| Stand-off Fin Angle | 60.00 | degrees |
| Stand-off Fin Width | 0.0000 | inches |
| Borehole Corr. Rm Source | Temperature Corr | |
| Temp. for Rm Corr. | MCG External Temperature | |
| Squasher Start | 0.0020 | 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 |

## Caliper Calibration MPD 220

Base Calibration on 10-SEP-2009 10:23
Field Calibration on 25-SEP-2009,11:45

Base Calibration

| Reading No | Measured | Calibrator Size (in) |
|---|---|---|
| 1 | 14258 | 4.01 |
| 2 | 22640 | 5.97 |
| 3 | 30513 | 7.96 |
| 4 | 38624 | 9.86 |
| 5 | 48000 | 11.92 |
| 6 | N/A | N/A |

Field Calibration

| Measured Caliper (in) | Actual Caliper (in) |
|---|---|
| 7.99 | 7.96 |

## Photo Density Calibration MPD 220

Base Calibration on 10-SEP-2009 10:12
Field Check on 25-SEP-2009 11:50

Density Calibration

Density Calibration

| Base Calibration | Measured Near | Measured Far | Calibrated (sdu) Near | Calibrated (sdu) Far |
|---|---|---|---|---|
| Reference 1 | 50075 | 18512 | 53167 | 19331 |
| Reference 2 | 23358 | 2856 | 25116 | 2544 |
| Field Check at Base | 1297.6 | 1538.1 | | |
| Field Check | 1300.2 | 1539.2 | | |

PE Calibration

| Base Calibration | WS | WH | Ratio | Calibrated Ratio |
|---|---|---|---|---|
| Background | 235 | 1152 | | |
| Reference 1 | 18203 | 49877 | 0.369 | 0.320 |
| Reference 2 | 6810 | 23193 | 0.298 | 0.273 |
| Field Check at Base | 235.2 | 1151.5 | | |
| Field Check | 233.5 | 1148.8 | | |

Density Constants MPD 220

Last Edited on 25-SEP-2009,11:50

| | | |
|---|---|---|
| Density Source Id | P21136B | |
| Nylon Calibrator Number | 535 | |
| Aluminium Calibrator Number | 535 | |
| Density Shoe Profile | 8 inch | |
| Caliper Source for Processing | Density Caliper | |
| PE Correction to Density | Not Applied | |
| Mud Density | 1.00 | gm/cc |
| Mud Density Z/A Correction | 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 | Standard | |

| Matrix Density (gm/cc) | Depth (ft) |
|---|---|
| 2.65 | 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

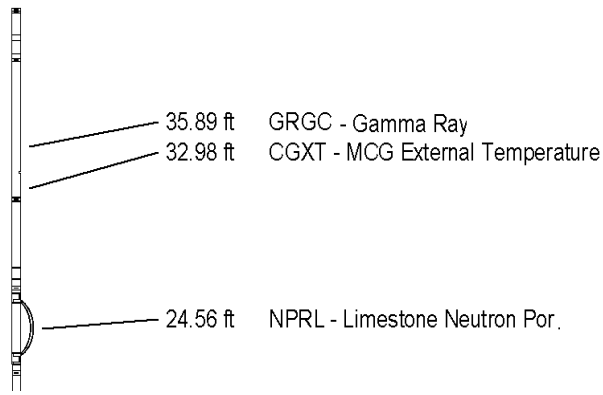
C:\Minimus\Logs\Pioneer Resources\North Fork Ranch 14-1R\MAIN.dta

SHA-J.A Compact Swivel Head Adaptor
SHA 214 Length: 2.30 ft Weight: 22.0 lb

Compact Gamma
MCG 247 Length: 8.70 ft Weight: 63.9 lb

Compact Linker
MLK 5 Length: 4.87 ft Weight: 86.0 lb

Compact Neutron
MDN 216 Length: 5.04 ft Weight: 50.7 lb

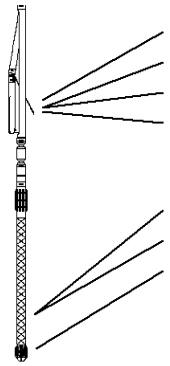


Compact Density/Caliper
MPD 220 Length: 9.59 ft Weight: 90.4 lb

SKJ-D.A Compact Knuckle Joint
SKJ 154 Length: 2.17 ft Weight: 24.3 lb

Compact Induction
MAI 213 Length: 10.81 ft Weight: 48.5 lb

Total Length: 43.47 ft Weight: 385.8 lb



16.09 ft CLDC - Density Caliper
15.39 ft DPRL - Limestone Density Por.
15.39 ft DCOR - Density Correction
15.33 ft PDPE - PE

2.58 ft RILM - Medium Induction
2.58 ft RILD - Deep Induction
Tool Zero (0.13ft from bottom)
All measurements relative to tool zero.

| | |
|---|---|
| COMPANY | PIONEER NATURAL RESOURCES |
| WELL | NORTH FORK RANCH 14 - 1R |
| FIELD | MAXWELL |
| PROVINCE/COUNTY | LAS ANIMAS |
| COUNTRY/STATE | U.S.A./COLORADO |

| | | | | | |
|---|---|---|---|---|---|
| Elevation Kelly Bushing | 7935.00 | feet | First Reading | 2005.00 | feet |
| Elevation Drill Floor | 7934.00 | feet | Depth Driller | 2015.00 | feet |
| Elevation Ground Level | 7931.00 | feet | Depth Logger | 2008.00 | feet |

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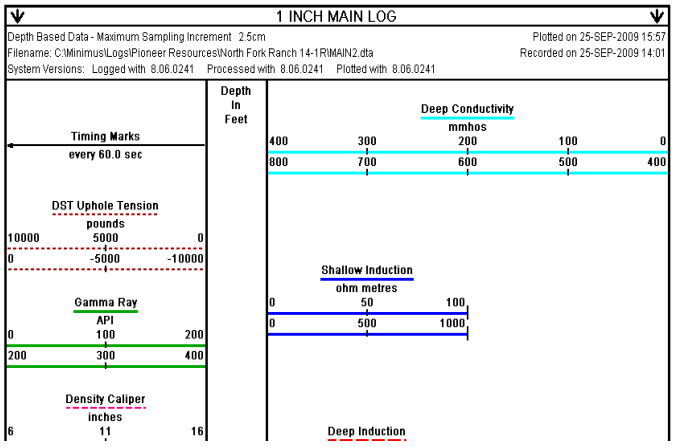
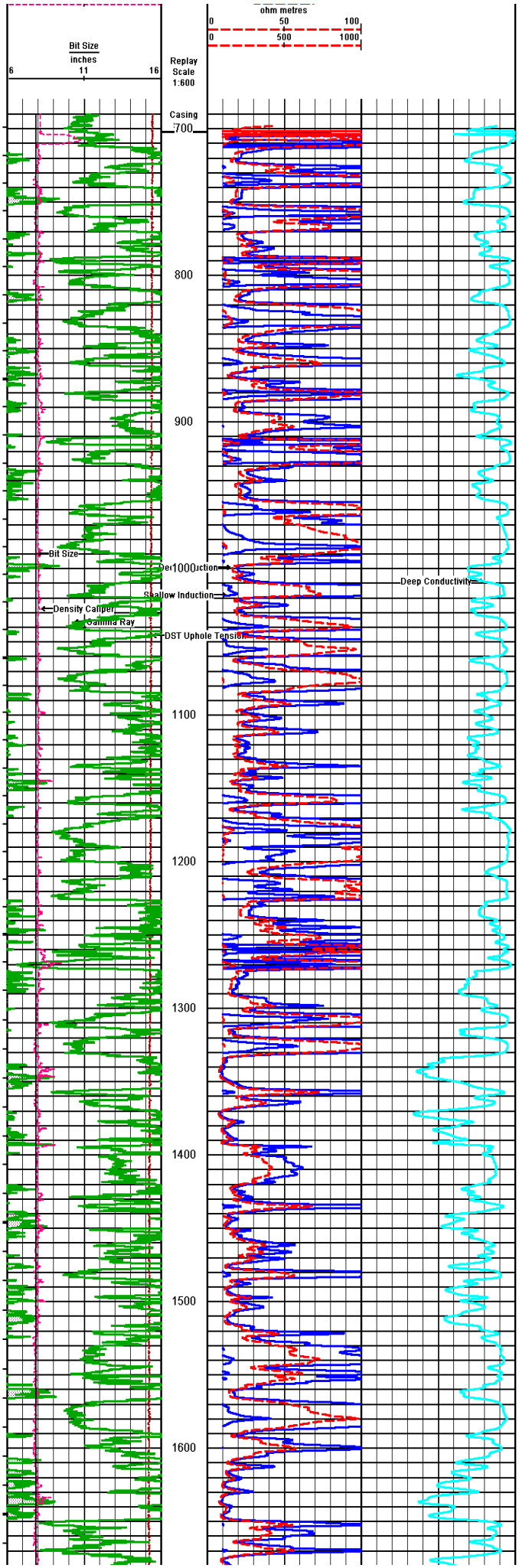
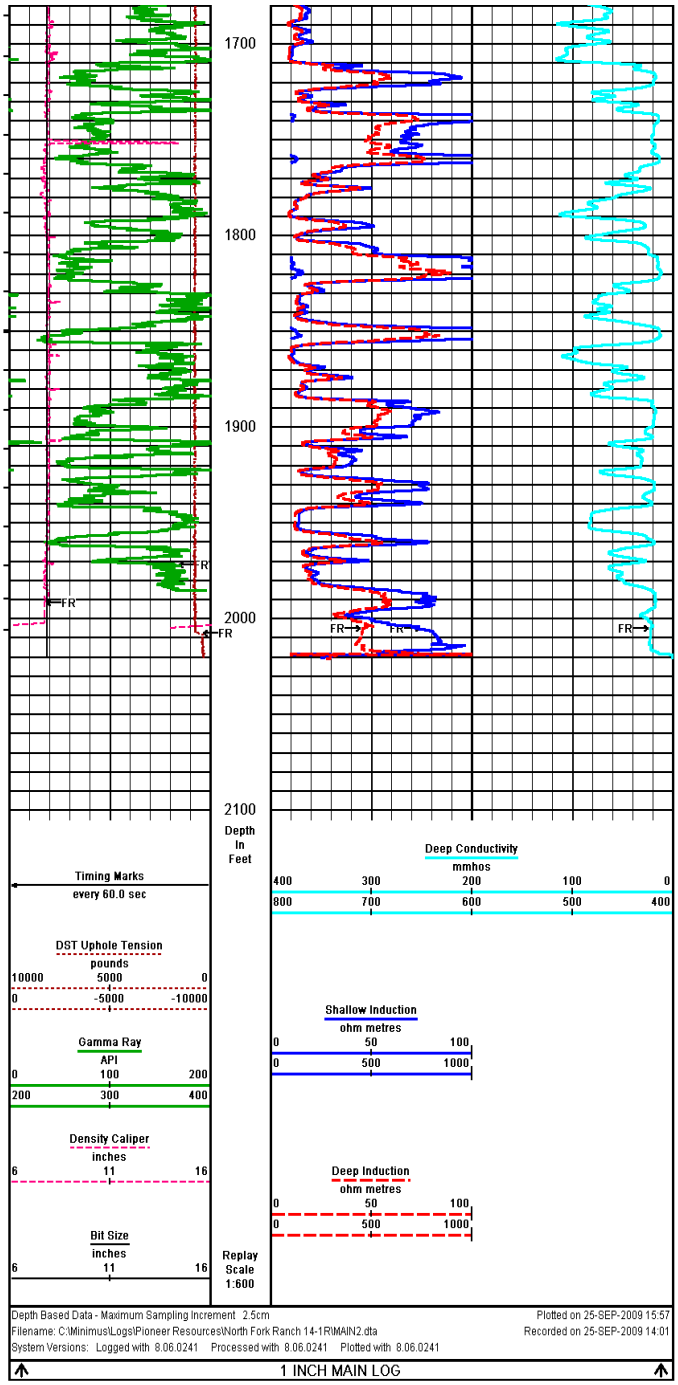
# ARRAY INDUCTION LOG

| | |
|---|---|
| COMPANY | PIONEER NATURAL RESOURCES |
| WELL | NORTH FORK RANCH 14 - 1R |
| FIELD | MAXWELL |
| PROVINCE/COUNTY | LAS ANIMAS |
| COUNTRY/STATE | U.S.A./COLORADO |
| LOCATION | 967' FSL & 698' FWL |
| SEC | 1 |
| TWP | 33S |
| RGE | 68W |
| API Number | 05-067-08870 |
| Other Services | MPD, MDN |
| Permanent Datum | G.L. Elevation 7931 feet |
| Log Measured From | K.B. @ 4 FEET above Permanent Datum |
| Drilling Measured From | K.B. |
| Elevations: KB | 7935.00 feet |
| DF | 7934.00 |
| GL | 7931.00 |
| Date | 25-SEP-2009 |
| Run Number | ONE |
| Depth Driller | 2015.00 feet |
| Depth Logger | 2008.00 feet |
| First Reading | 2005.00 feet |
| Last Reading | 702.00 feet |
| Casing Driller | 699.00 feet |
| Casing Logger | 702.00 feet |
| Bit Size | 7.875 inches |
| Hole Fluid Type | AIR |
| Density / Viscosity | |
| PH / Fluid Loss | |
| Sample Source | FLOWLINE |
| Rm @ Measured Temp | |
| Rmf @ Measured Temp | |
| Rmc @ Measured Temp | |
| Source Rmf / Rmc | CALC / CALC |
| Rm @ BHT | |
| Time Since Circulation | |
| Max Recorded Temp | 94.00 deg F |
| Equipment Name | COMPACT |
| Equipment / Base | 13087 / FARM |
| Recorded By | L.PLAGGE |
| Witnessed By | JACKIE LUTHER |

ARRAY INDUCTION LOG




Bit Size
inches
6
11
16
ohm metres
0
50
100
0
500
1000
Replay
Scale
1:600
Casing
700
800
900
1000
1100
1200
1300
1400
1500
1600
Bit Size
Density Caliper
Gamma Ray
DST Uphole Tension
Shallow Induction
Deep Conductivity




Depth Based Data - Maximum Sampling Increment 2.5cm — Plotted on 25-SEP-2009 15:57

Filename: C:\Minimus\Logs\Pioneer Resources\North Fork Ranch 14-1R\MAIN2.dta — Recorded on 25-SEP-2009 14:01

System Versions: Logged with 8.06.0241 Processed with 8.06.0241 Plotted with 8.06.0241

1 INCH MAIN LOG

| | |
|---|---|
| COMPANY | PIONEER NATURAL RESOURCES |
| WELL | NORTH FORK RANCH 14 - 1R |
| FIELD | MAXWELL |
| PROVINCE/COUNTY | LAS ANIMAS |
| COUNTRY/STATE | U.S.A./COLORADO |

| | | | | | |
|---|---|---|---|---|---|
| Elevation Kelly Bushing | 7935.00 | feet | First Reading | 2005.00 | feet |
| Elevation Drill Floor | 7934.00 | feet | Depth Driller | 2015.00 | feet |
| Elevation Ground Level | 7931.00 | feet | Depth Logger | 2008.00 | feet |

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ARRAY INDUCTION

LOG