Weatherford®

ARRAY INDUCTION / RSFE
PHOTO-DENSITY / NEUTRON
GAMMA RAY LOG / TVD

COMPANY	SMITH PRODUCTION
WELL	N R BROUSSARD LANDING INC #1
FIELD	ABBEVILLE
PROVINCE/COUNTY	VERMILLION
COUNTRY/STATE	U.S.A. / LOUISIANA
LOCATION	SECTION: 68 TWP:12S RGS: 03E

40 Years of Wireline 1970 2010

FINAL PRINT

SEC	TWP	RGE	Other Services
68	12S	03E	

API Number 1711322431
Permit Number 75192

Permanent Datum G.L., Elevation 10 feet
Log Measured From K.B. @ 17 FT. above Permanent Datum
Drilling Measured From K.B.

Elevations:	feet
KB	27.00
DF	26.00
GL	10.00

Date	6-JULY-2011			
Run Number	ONE			
Depth Driller	8416.00	feet		
Depth Logger	8412.00	feet		
First Reading	8400.00	feet		
Last Reading	1806.00	feet		
Casing Driller	1807.00	feet		
Casing Logger	1806.00	feet		
Bit Size	7.875	inches		
Hole Fluid Type	WATER BASED			
Density / Viscosity	10.00 lb/USg	43.00 SEC/QT		
PH / Fluid Loss	10.00	6.00 ml/30Min		
Sample Source	MUD TANK			
Rm @ Measured Temp	1.20 @ 75.0	ohm-m		
Rmf @ Measured Temp	0.90 @ 75.0	ohm-m		
Rmc @ Measured Temp	1.50 @ 75.0	ohm-m		
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	0.55 @169.0	ohm-m		
Time Since Circulation	6 HOURS			
Max Recorded Temp	169.00	deg F		
Equipment Name	COMPACT			
Equipment / Base	13046	TYLER		
Recorded By	M. JOHNSON			
Witnessed By	BROOKE FURRH		STEVE BAE	
Witnessed By	JAY CHANG		.	

BOREHOLE RECORD

Last Edited: 07-JUL-2011 03:04

Bit Size inches	Depth From feet	Depth To feet
7.875	1806.00	8412.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	1806.00	24.00

REMARKS

SERVICE ORDER #3518691

RUN ONE TOOLS RAN IN COMBINATION: SHA/MCG/MDN/MPD/MAI

DENSITY POROSITY CALCULATED ASSUMING LIMESTONE MATRIX OF 2.65 g/cc.

ANNULAR HOLE VOLUME CALCULATED ASSUMING 5.5 CASING.

LOGGED INTERVALS AS PER CLIENT REQUEST.

BOREHOLE SIZE AND RUGOSITY AFFECTING LOG QUALITY.

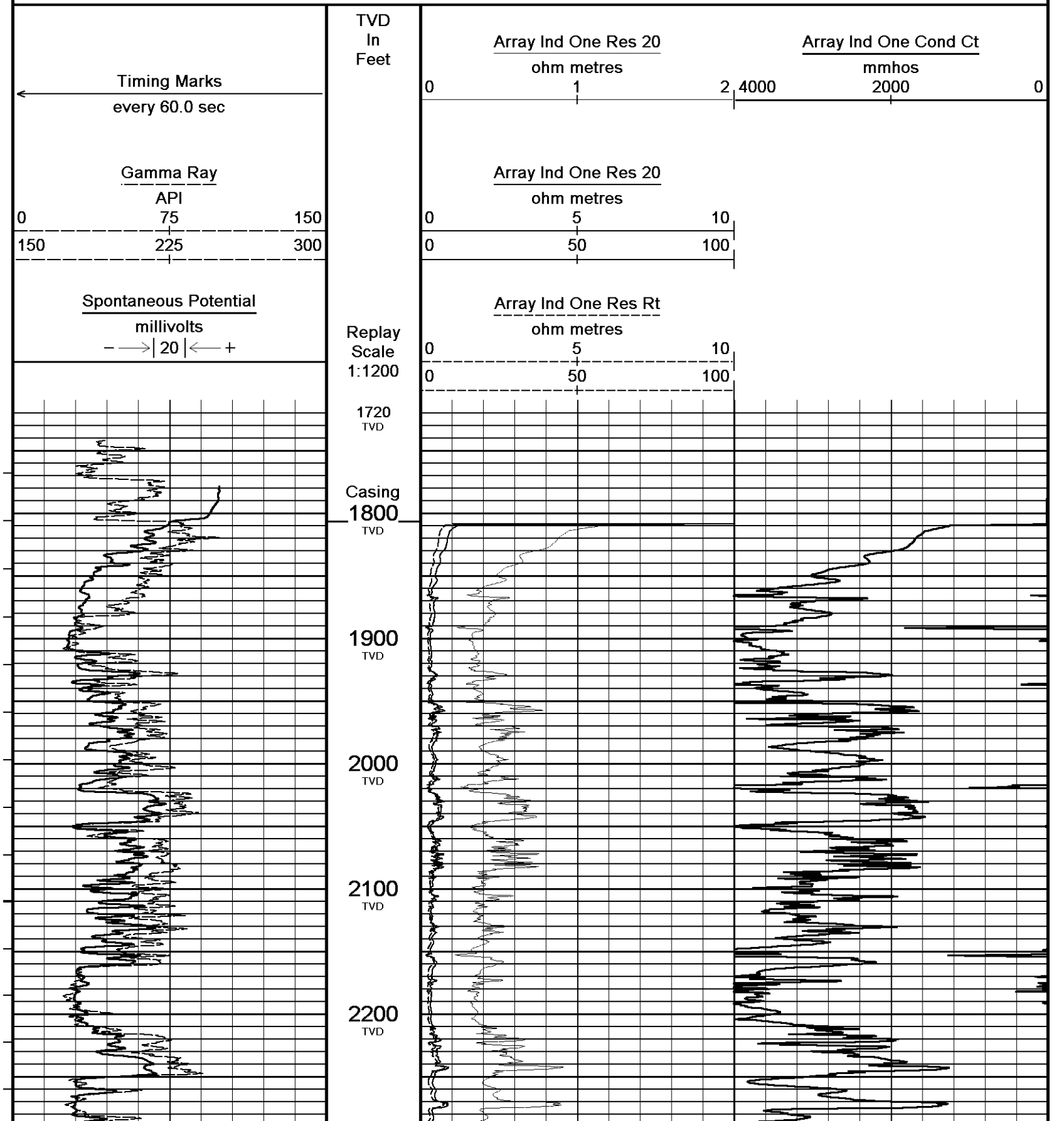
RIG: GUICHARD #5
K.B. HEIGHT = 17

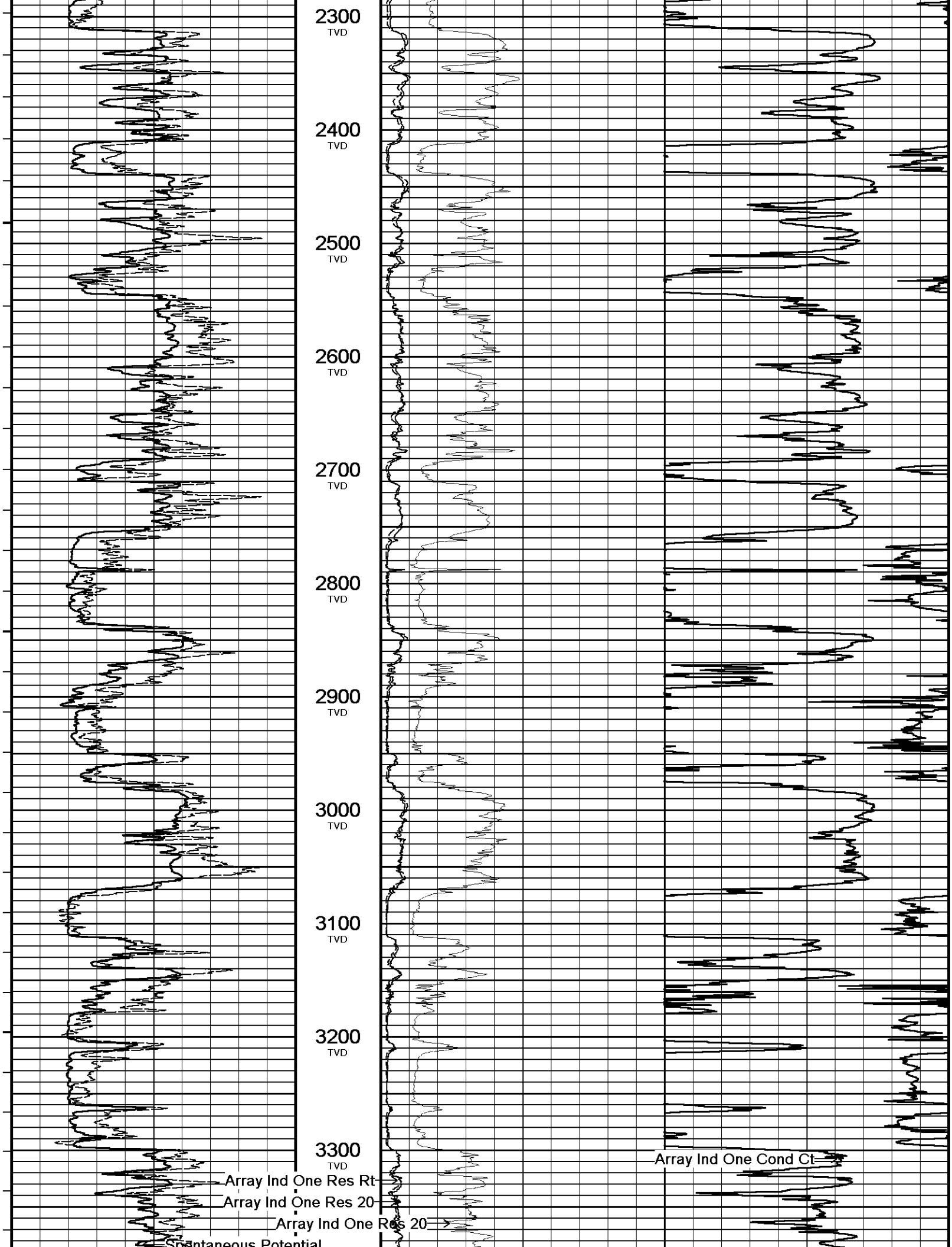
CREW: J. PRICE, J. CHEATHEM, J. METTLEN

1 INCH MAIN PASS

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: C:\DATA\Guichard_Smith Production\NR Broussard Landing #1\Main Pass2.dta
System Versions: Logged with 11.02.2782 Processed with 11.02.2782 Plotted with 11.02.2782

Plotted on 07-JUL-2011 03:36
Recorded on 06-JUL-2011 22:54

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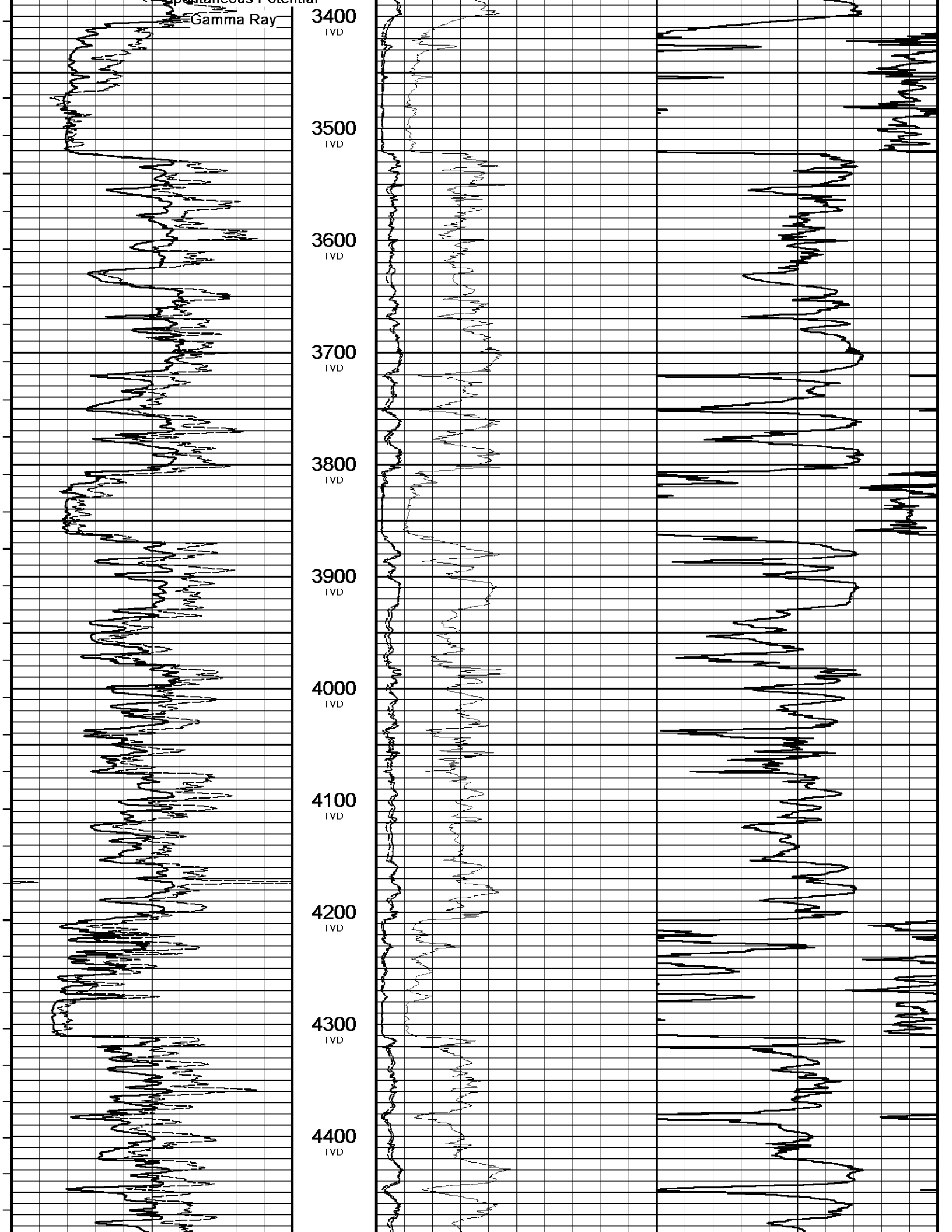
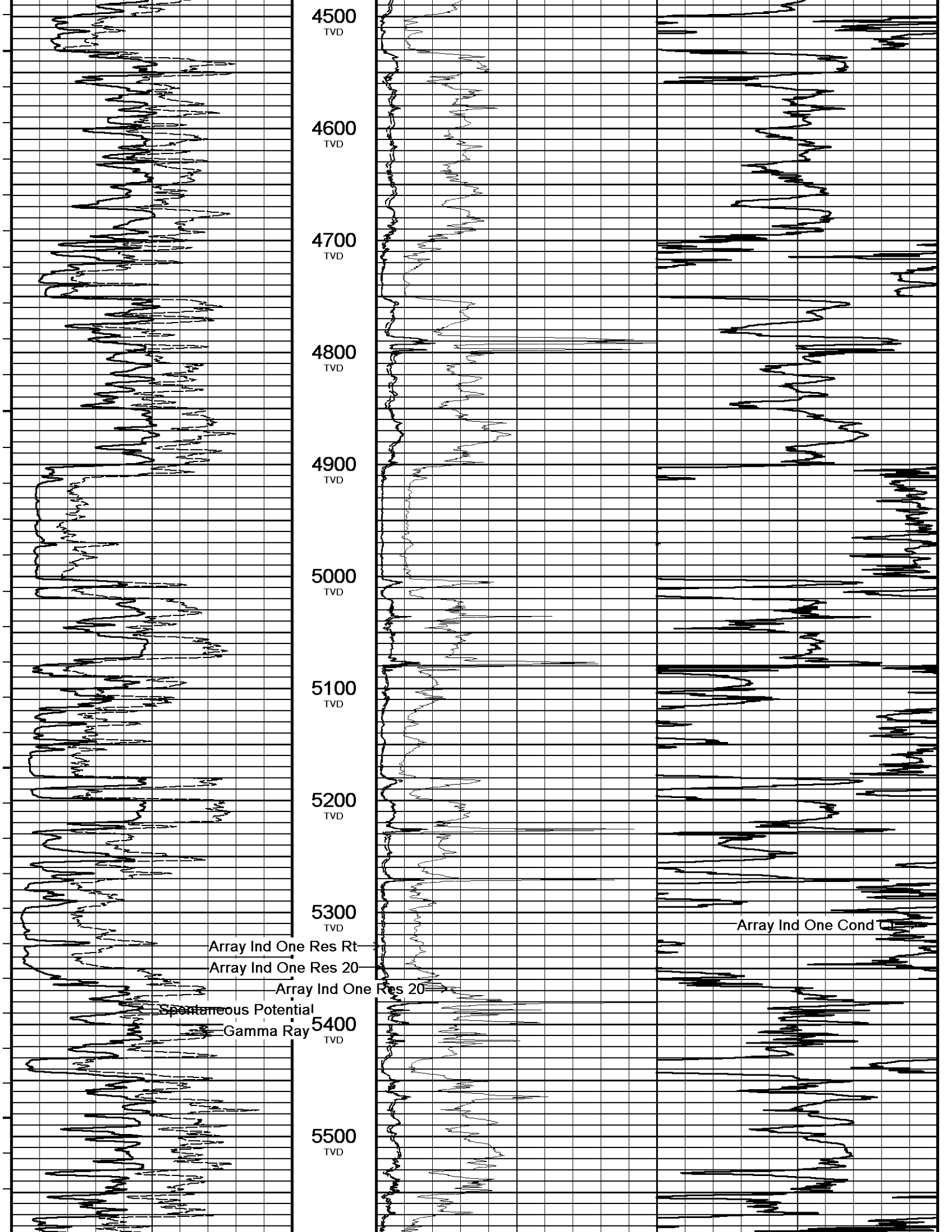
TVD
2400
TVD
2500
TVD
2600
TVD
2700
TVD
2800
TVD
2900
TVD
3000
TVD
3100
TVD
3200
TVD
3300
TVD
Array Ind One Cond Ct
Array Ind One Res Rt
Array Ind One Res 20
Array Ind One Res 20
Spontaneous Potential


Spontaneous Potential
Gamma Ray
3400
TVD
3500
TVD
3600
TVD
3700
TVD
3800
TVD
3900
TVD
4000
TVD
4100
TVD
4200
TVD
4300
TVD
4400
TVD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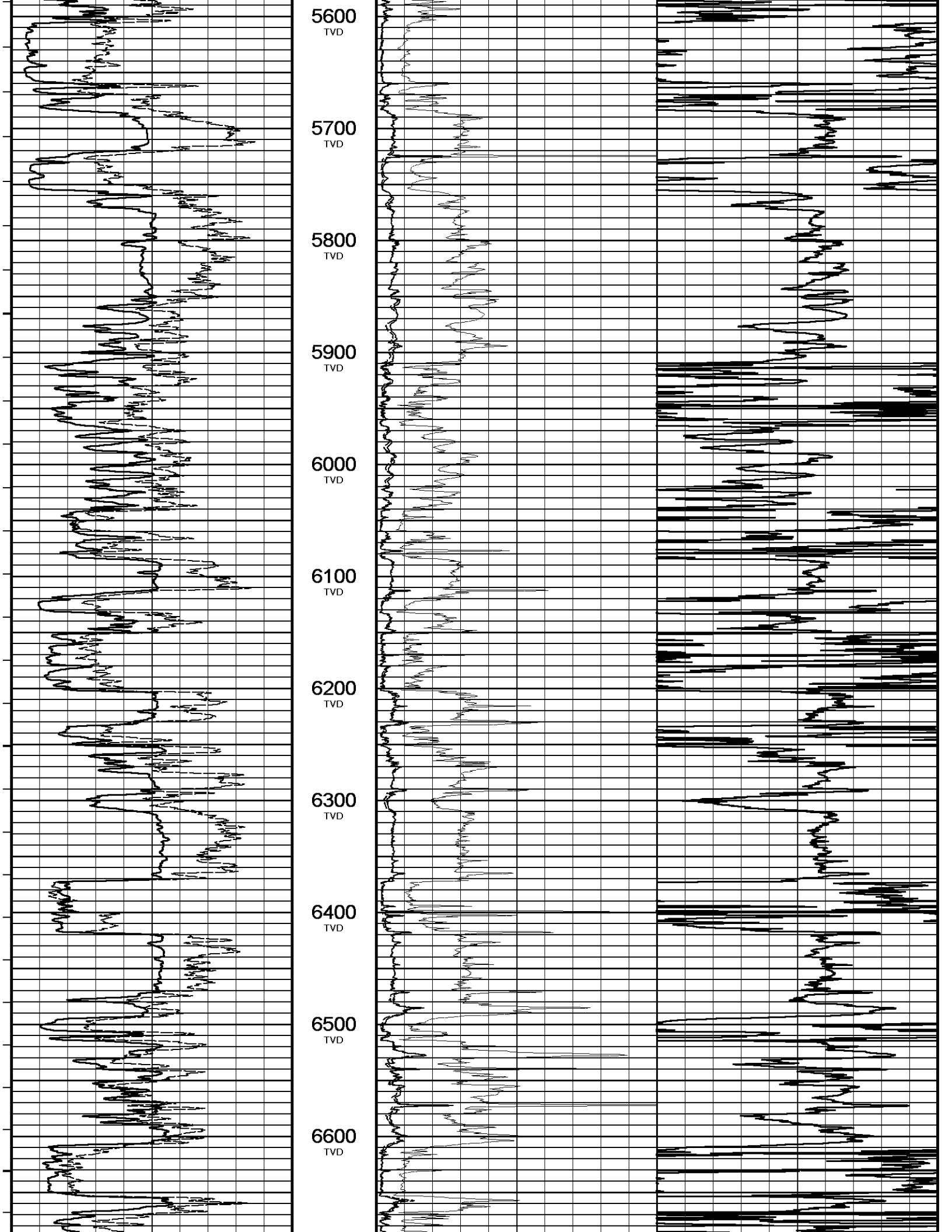
TVD
4600
TVD
4700
TVD
4800
TVD
4900
TVD
5000
TVD
5100
TVD
5200
TVD
5300
TVD
5400
TVD
5500
TVD
Array Ind One Res Rt
Array Ind One Res 20
Array Ind One Res 20
Spontaneous Potential
Gamma Ray
Array Ind One Cond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TVD
5800
TVD
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6000
TVD
6100
TVD
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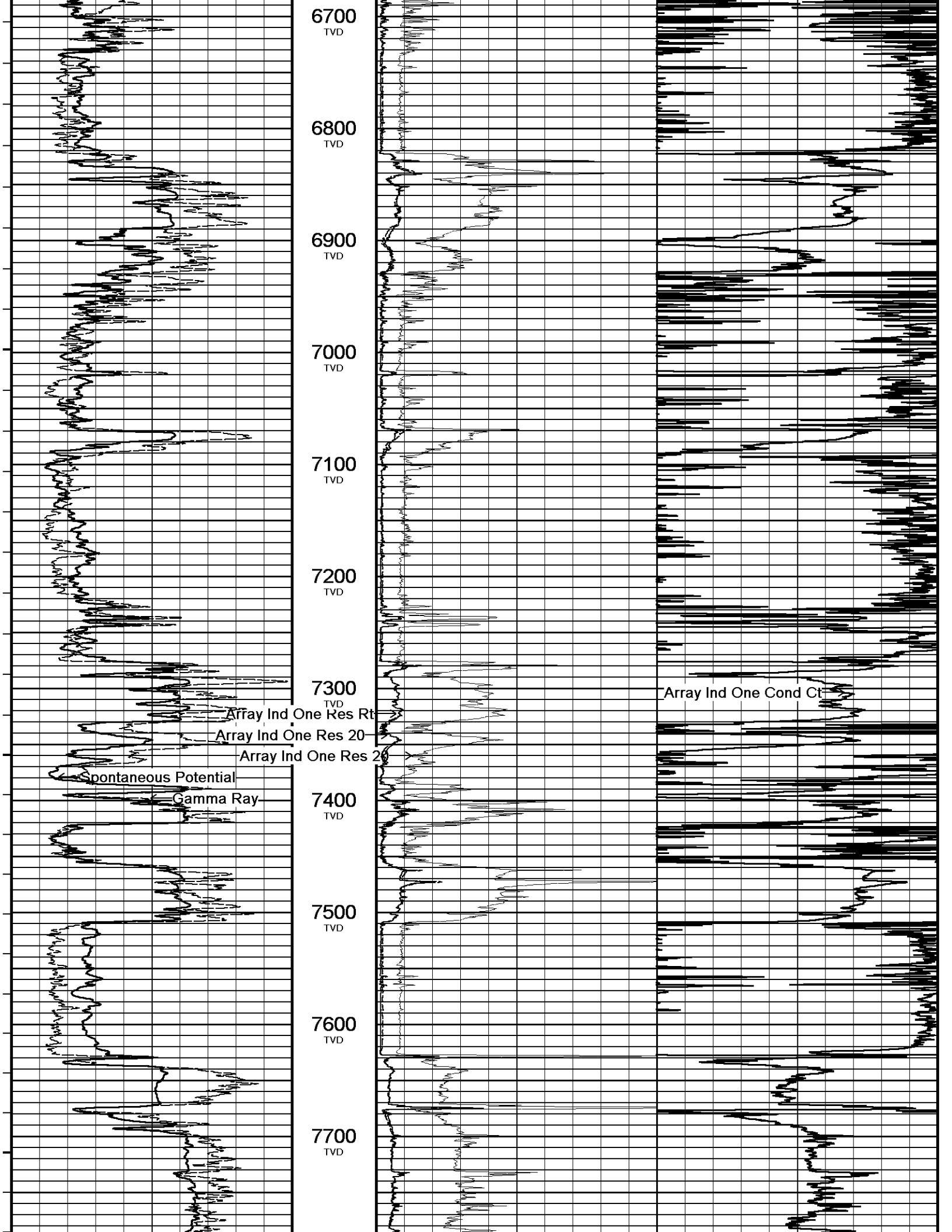
6300
TVD
6400
TVD
6500
TVD
6600
TVD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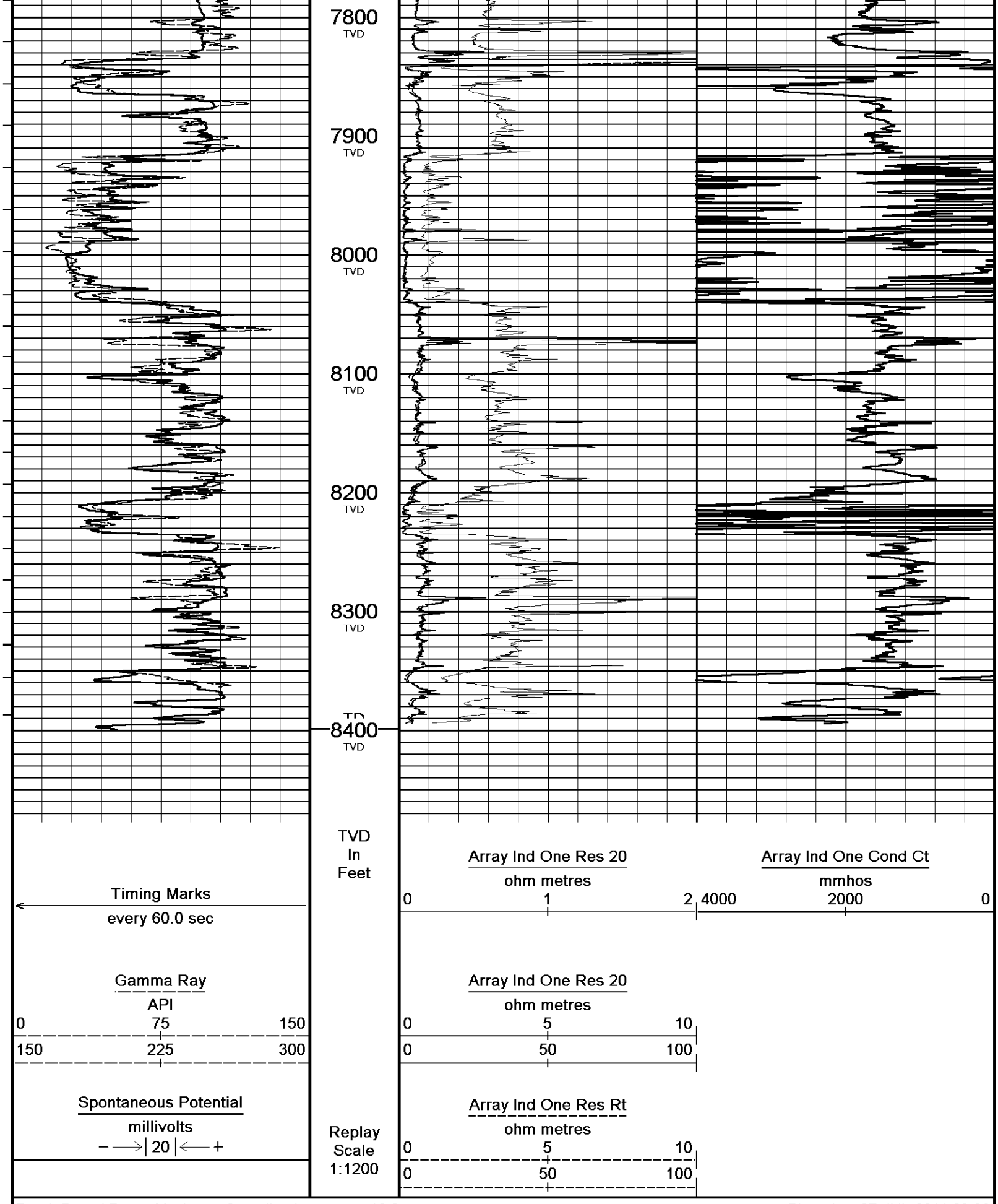
TVD
6800
TVD
6900
TVD
7000
TVD
7100
TVD
7200
TVD
7300
TVD
7400
TVD
7500
TVD
7600
TVD
7700
TVD
Array Ind One Res Rt
Array Ind One Res 20
Array Ind One Res 2
Spontaneous Potential
Gamma Ray
Array Ind One Cond Ct

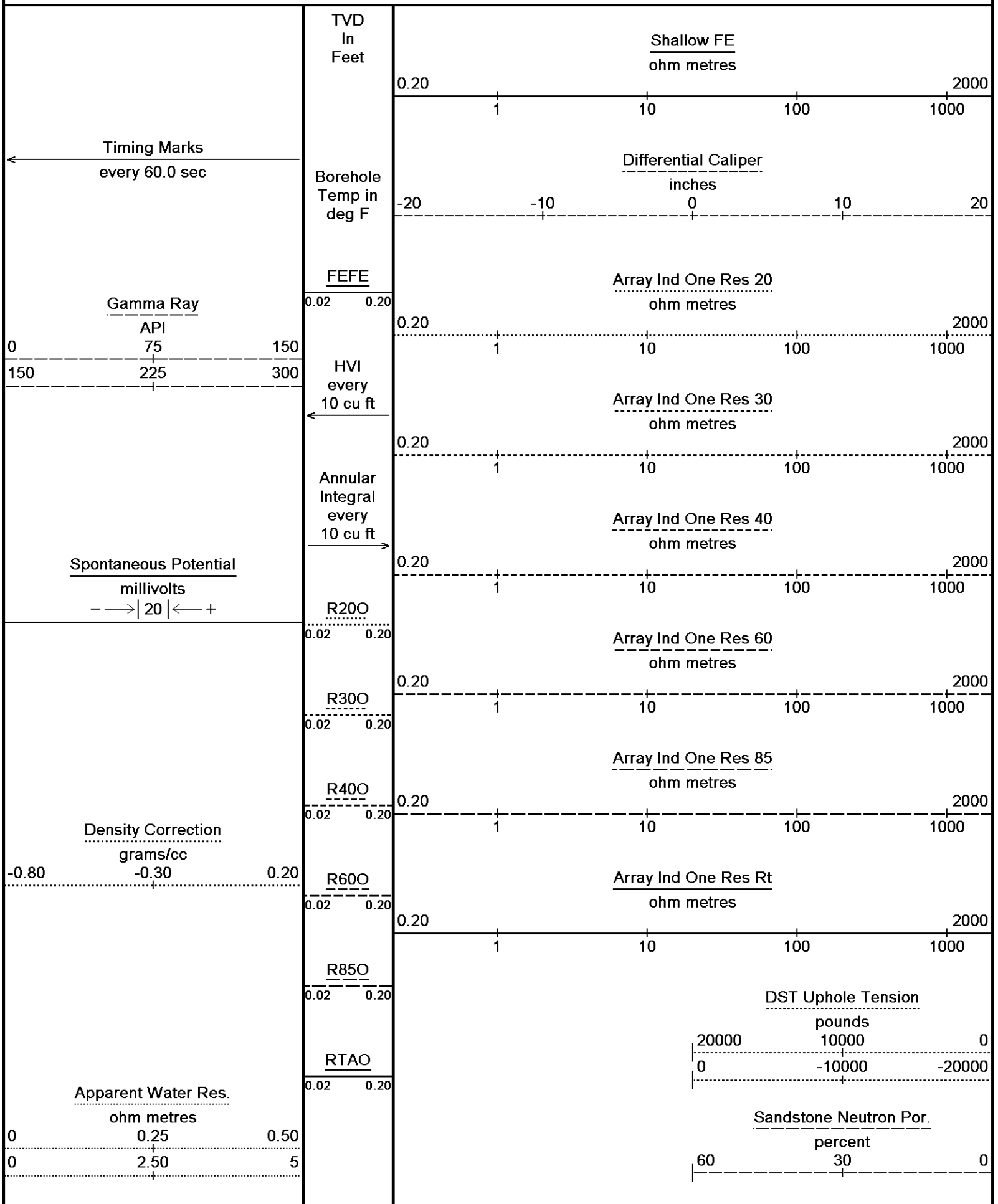


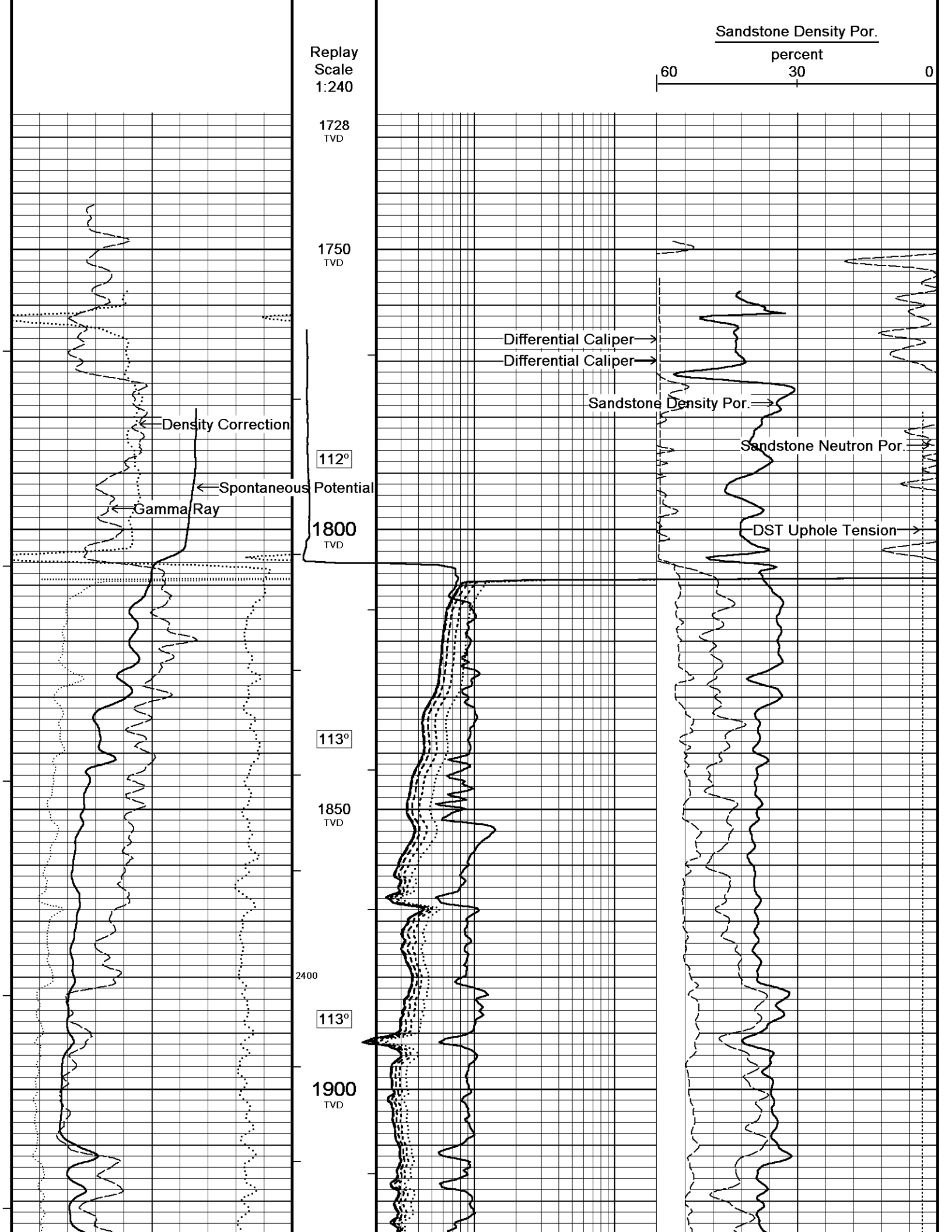
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 07-JUL-2011 03:36
Filename: C:\DATA\Guichard_Smith Production\NR Broussard Landing #1\Main Pass2.dta
Recorded on 06-JUL-2011 22:54
System Versions: Logged with 11.02.2782 Processed with 11.02.2782 Plotted with 11.02.2782

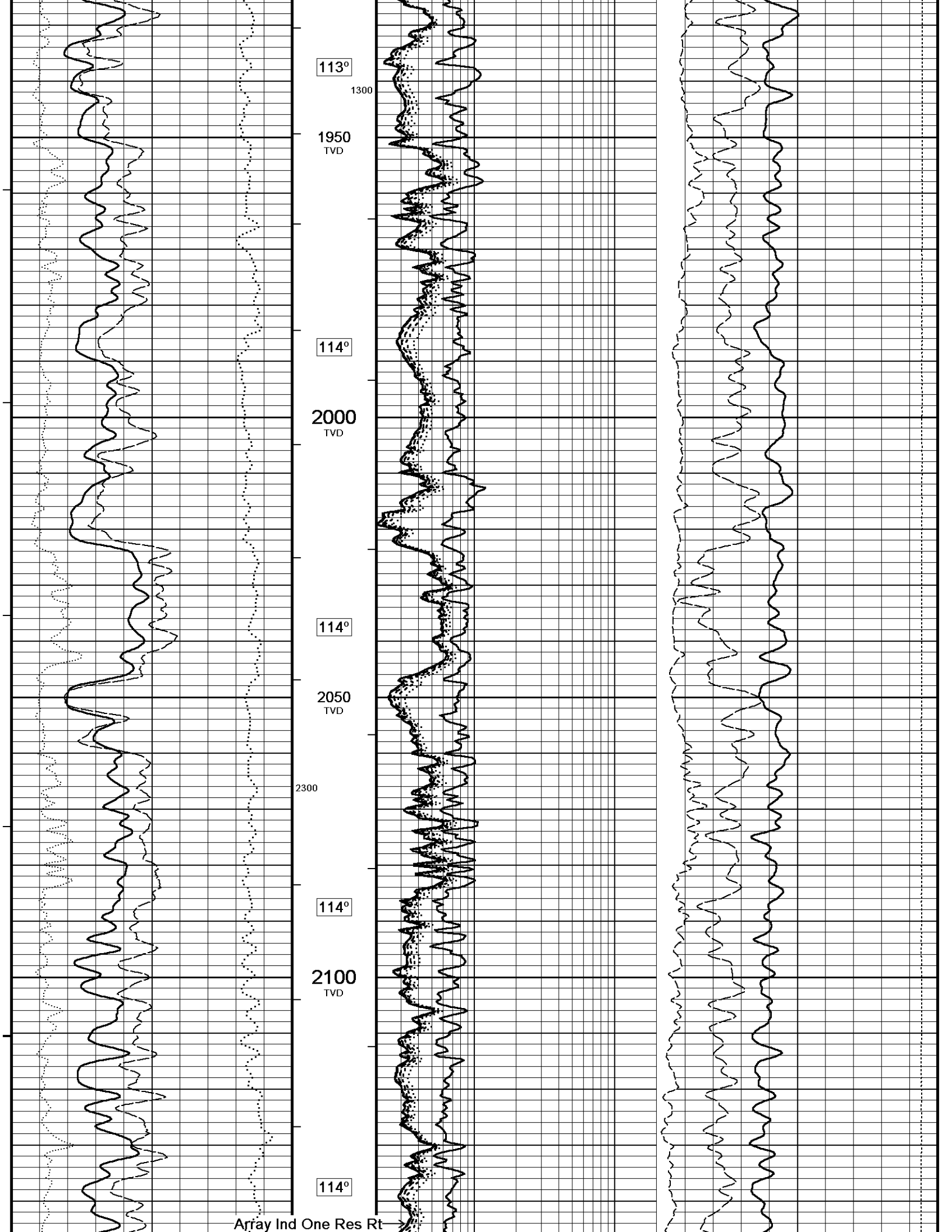
1 INCH MAIN PASS

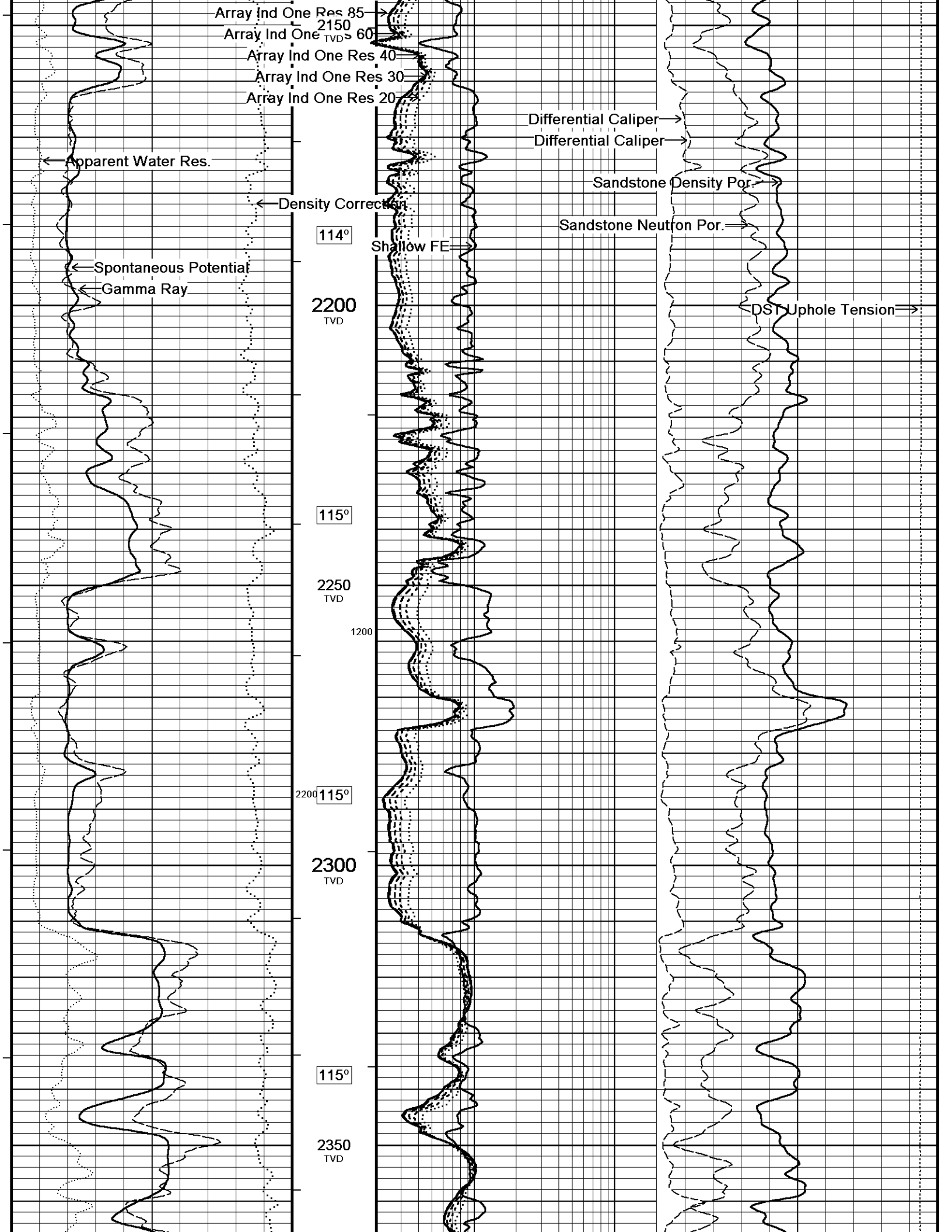
5 INCH MAIN PASS

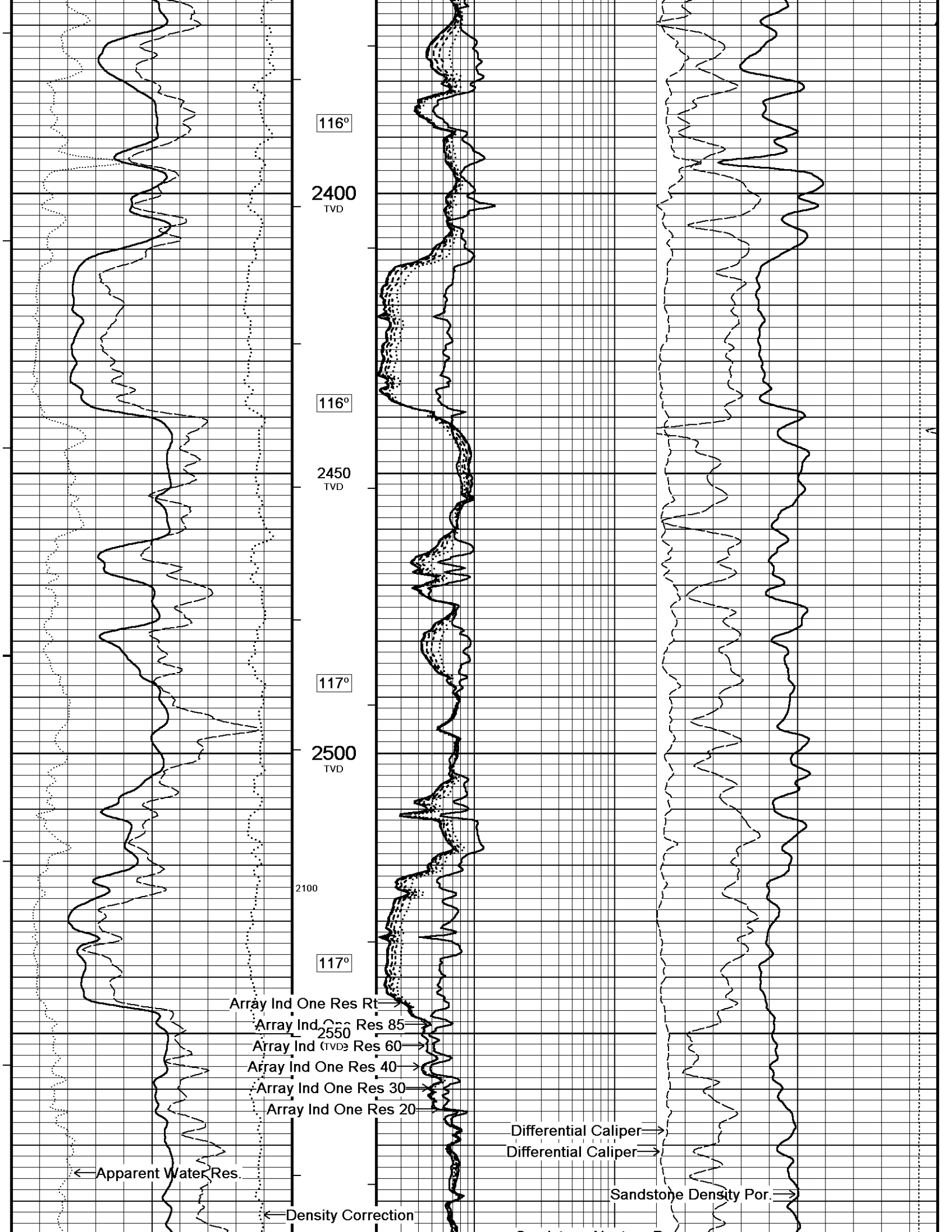
Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 07-JUL-2011 03:36
Filename: C:\DATA\Guichard_Smith Production\NR Broussard Landing #1\Main Pass2.dta
Recorded on 06-JUL-2011 22:54
System Versions: Logged with 11.02.2782 Processed with 11.02.2782 Plotted with 11.02.2782

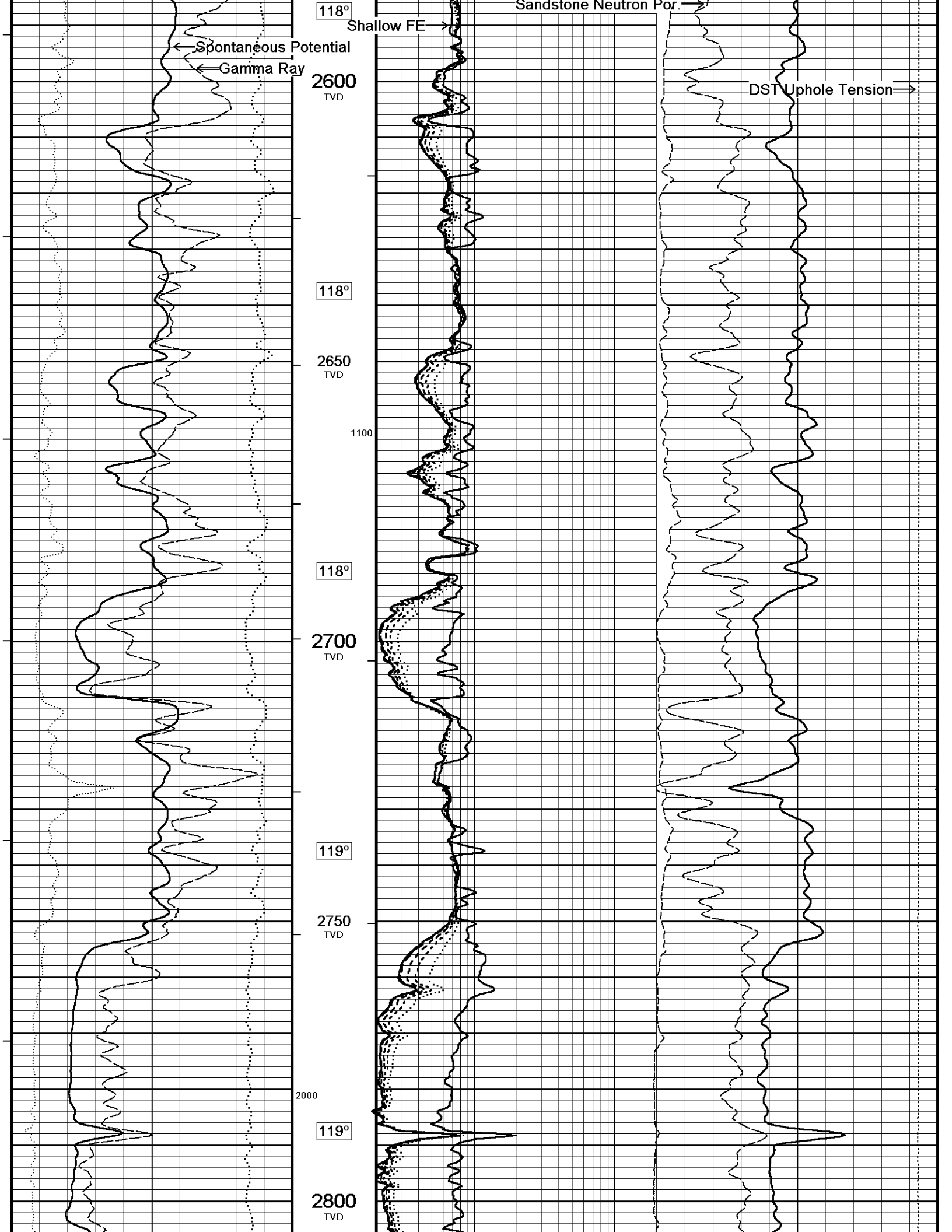


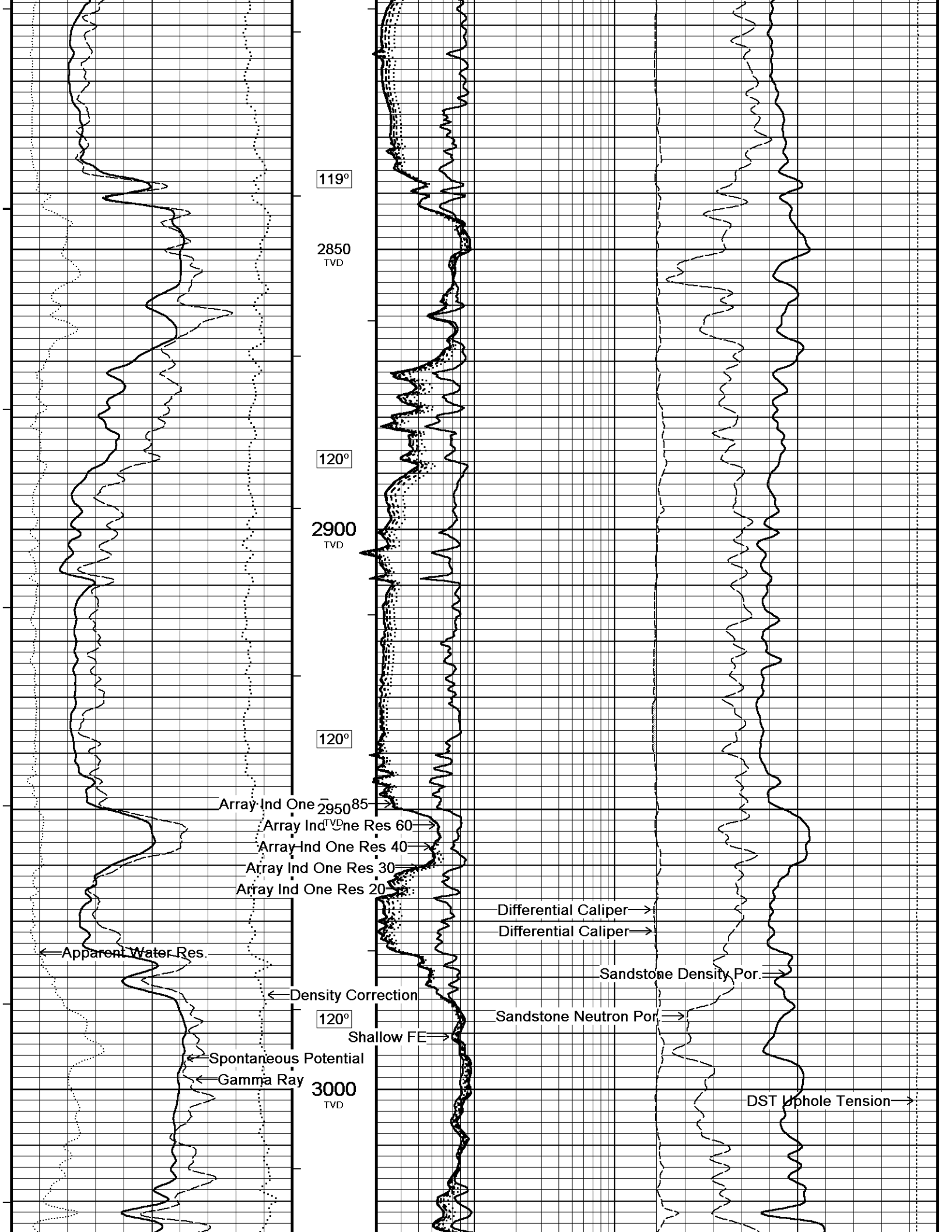

Replay
Scale
1:240
Sandstone Density Por.
percent
60
30
0
1728
TVD
1750
TVD
Differential Caliper
Differential Caliper
Sandstone Density Por.
Density Correction
Sandstone Neutron Por.
112°
Spontaneous Potential
Gamma Ray
1800
TVD
DST Uphole Tension
113°
1850
TVD
2400
113°
1900
TVD

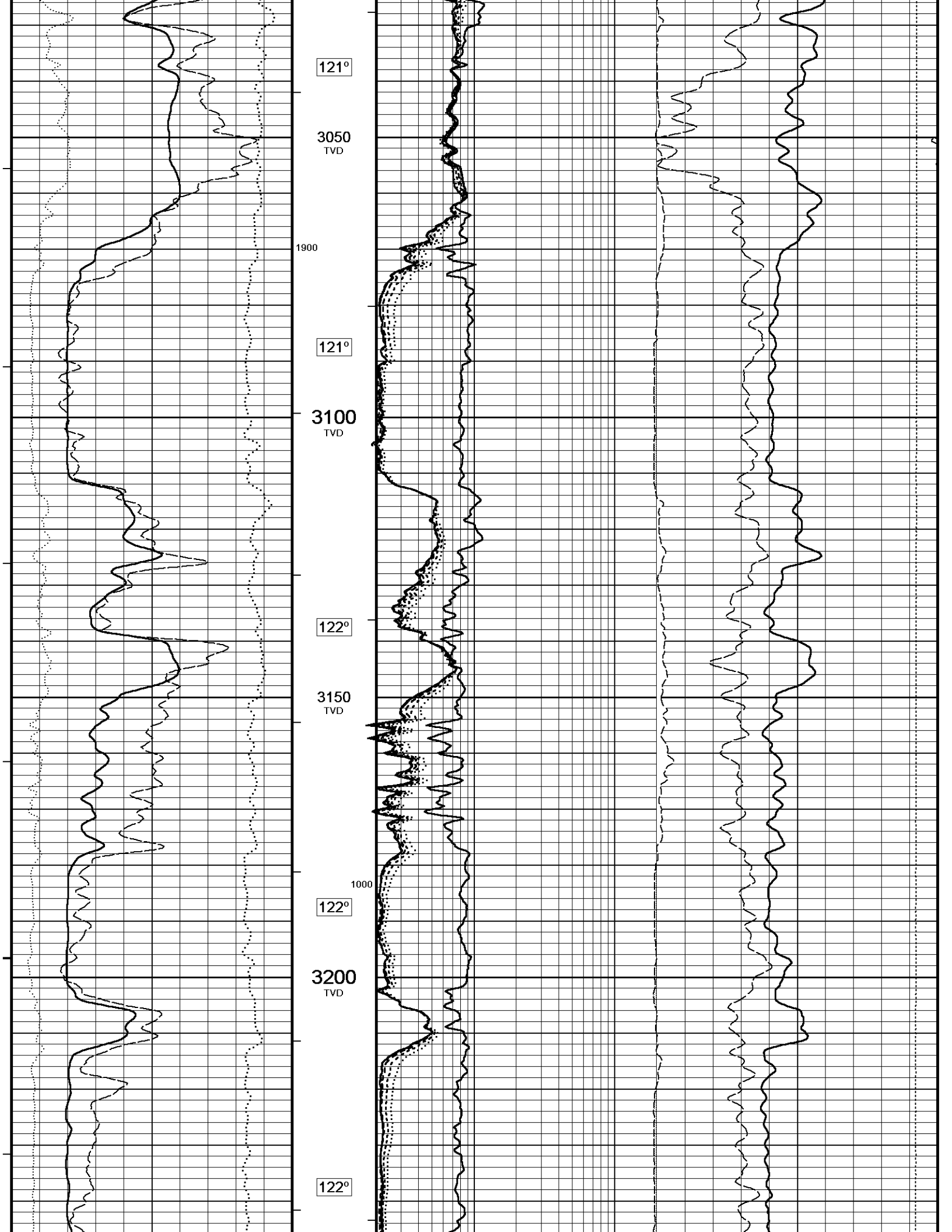

113°
1300
1950
TVD
114°
2000
TVD
114°
2050
TVD
2300
114°
2100
TVD
114°
Array Ind One Res Rt

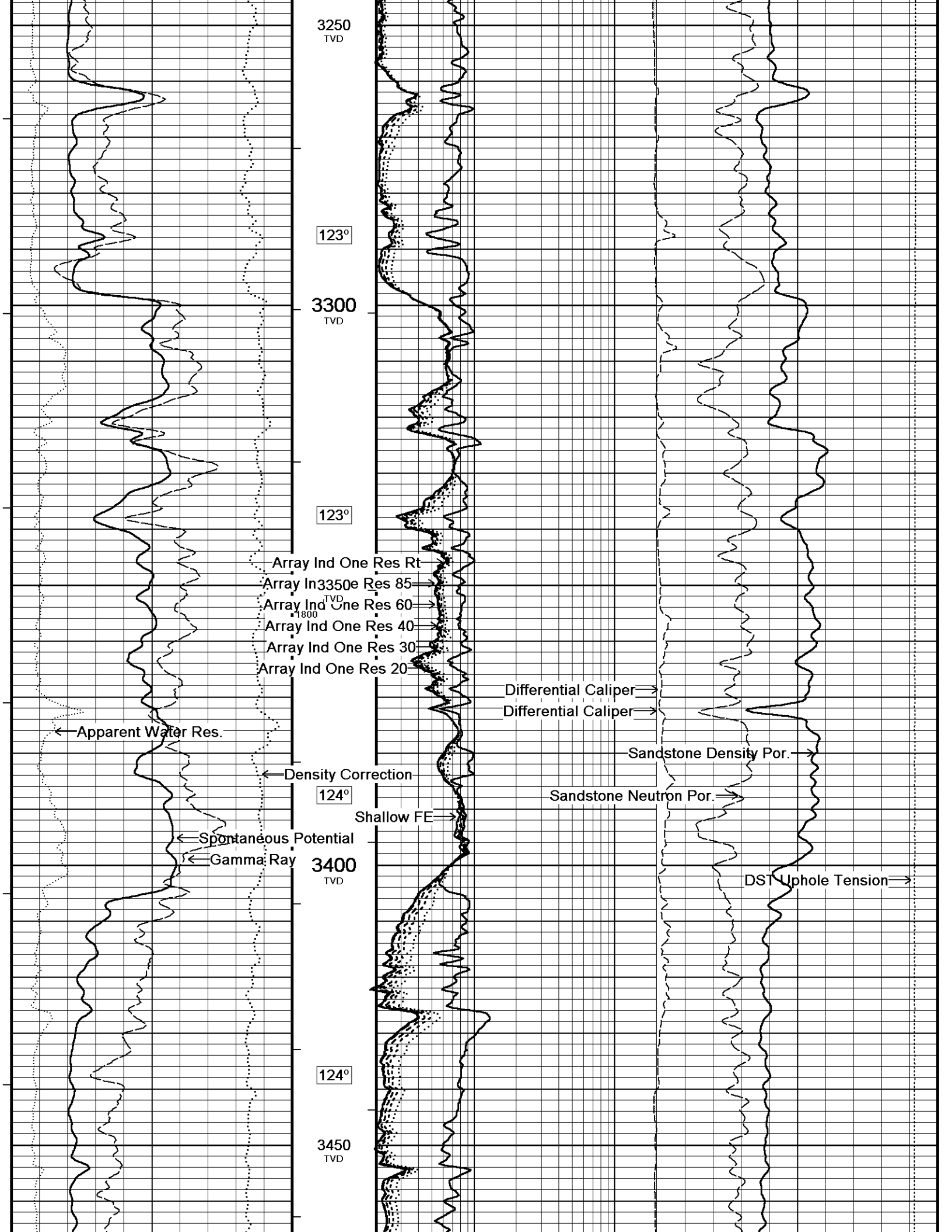

Array Ind One Res 85
2150
Array Ind One TVD 60
Array Ind One Res 40
Array Ind One Res 30
Array Ind One Res 20
Differential Caliper
Differential Caliper
Apparent Water Res.
Sandstone Density Por.
Density Correction
Sandstone Neutron Por.
114°
Shallow FE
Spontaneous Potential
Gamma Ray
2200
TVD
DST Uphole Tension
115°
2250
TVD
1200
2200
115°
2300
TVD
115°
2350
TVD

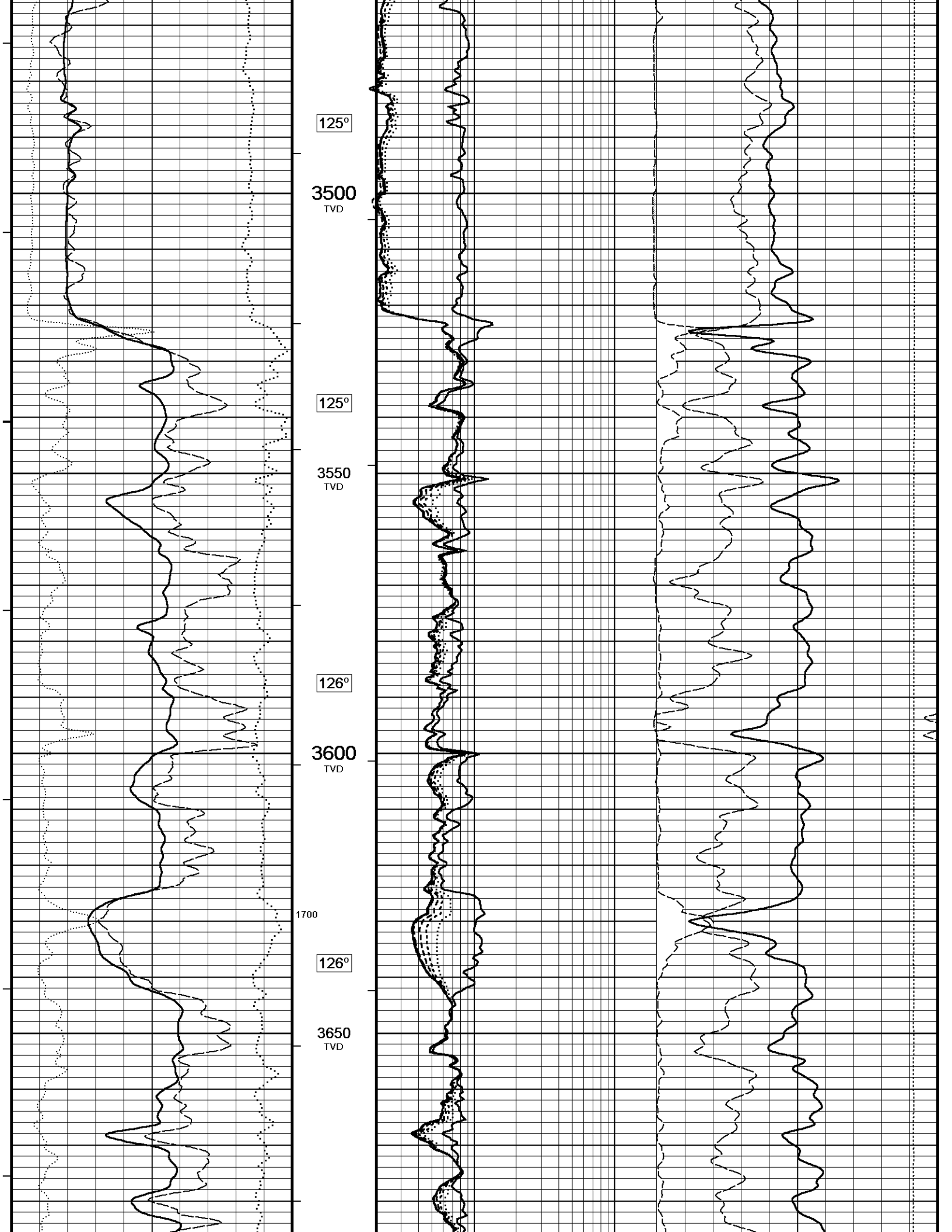

116°
2400
TVD
116°
2450
TVD
117°
2500
TVD
2100
117°
2550
(TVD)
Array Ind One Res Rt
Array Ind One Res 85
Array Ind One Res 60
Array Ind One Res 40
Array Ind One Res 30
Array Ind One Res 20
Differential Caliper
Differential Caliper
Apparent Water Res.
Sandstone Density Por.
Density Correction

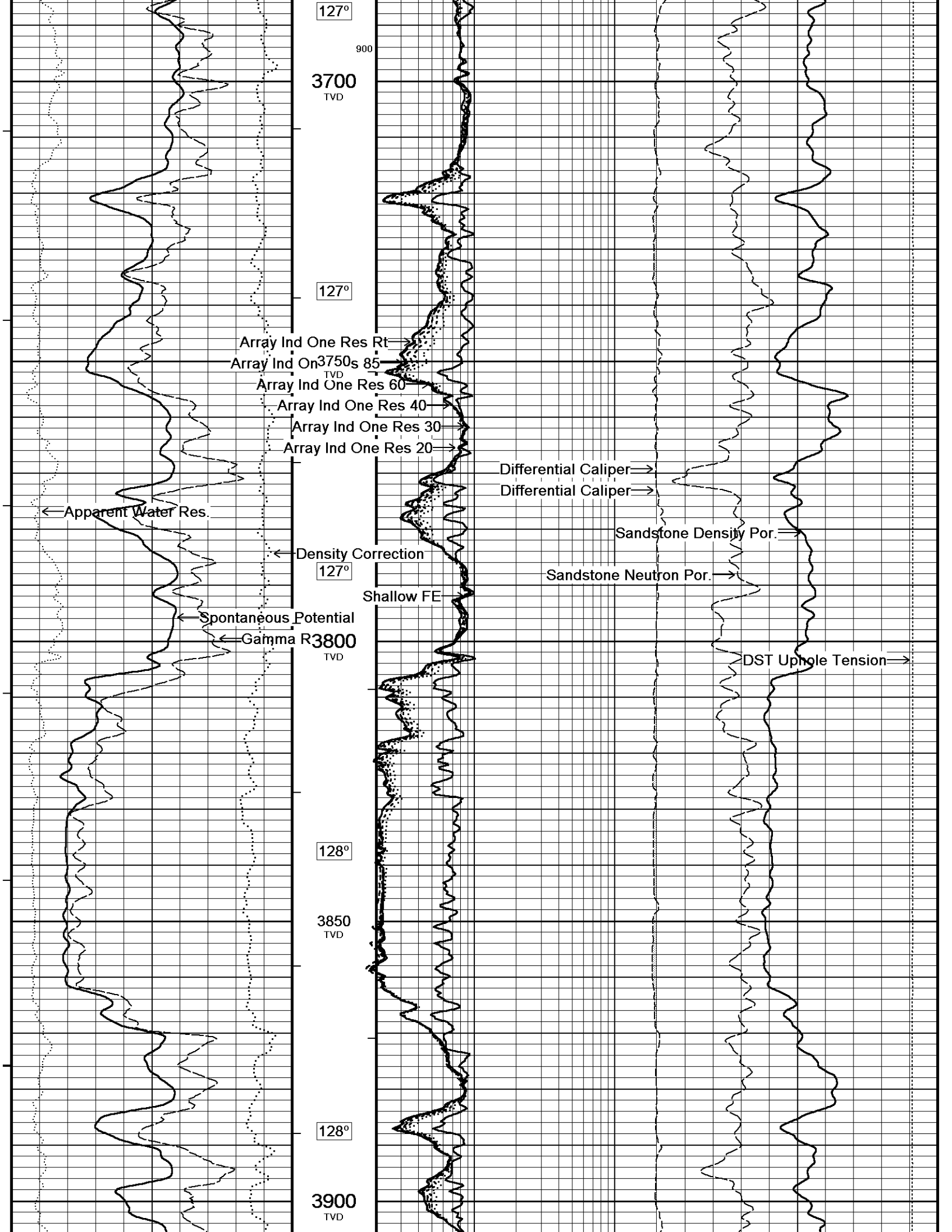

Sandstone Neutron Por
Shallow FE
Spontaneous Potential
Gamma Ray
DST Uphole Tension
118°
2600
TVD
118°
2650
TVD
1100
118°
2700
TVD
119°
2750
TVD
2000
119°
2800
TVD

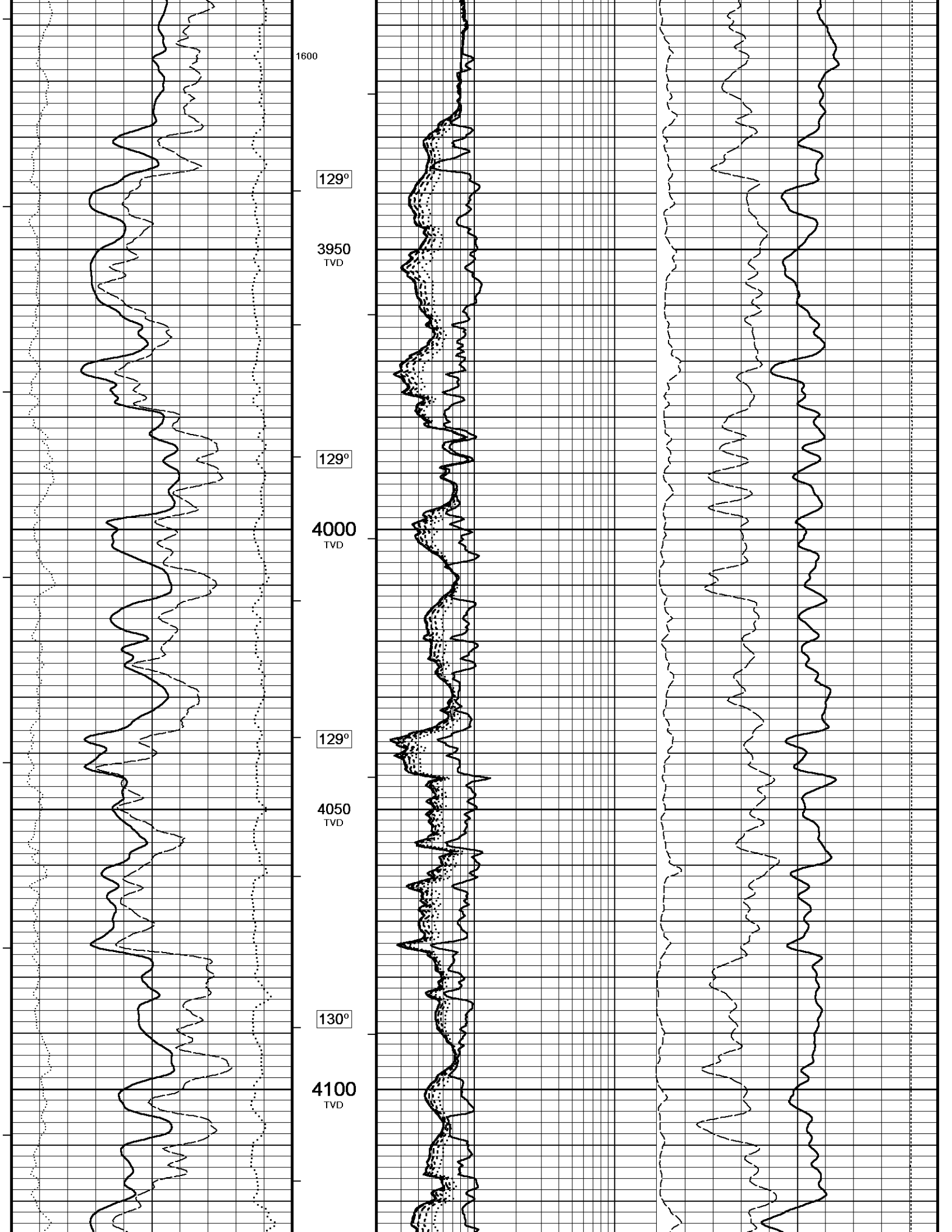

119°
2850
TVD
120°
2900
TVD
120°
Array Ind One
2950
85
TVD
Array Ind One Res 60
Array Ind One Res 40
Array Ind One Res 30
Array Ind One Res 20
Differential Caliper
Differential Caliper
Apparent Water Res.
Sandstone Density Por.
Density Correction
120°
Sandstone Neutron Por.
Shallow FE
Spontaneous Potential
Gamma Ray
3000
TVD
DST Uphole Tension


121°
3050
TVD
1900
121°
3100
TVD
122°
3150
TVD
1000
122°
3200
TVD
122°


3250
TVD
123°
3300
TVD
123°
Array Ind One Res Rt
Array In3350e Res 85
Array Ind TVD One Res 60
1800
Array Ind One Res 40
Array Ind One Res 30
Array Ind One Res 20
Differential Caliper
Differential Caliper
Apparent Water Res.
Sandstone Density Por.
Density Correction
124°
Sandstone Neutron Por.
Shallow FE
Spontaneous Potential
Gamma Ray
3400
TVD
DST Uphole Tension
124°
3450
TVD


125°
3500
TVD
125°
3550
TVD
126°
3600
TVD
1700
126°
3650
TVD


127°
900
3700
TVD
127°
Array Ind One Res Rt
Array Ind On3750s 85
TVD
Array Ind One Res 60
Array Ind One Res 40
Array Ind One Res 30
Array Ind One Res 20
Differential Caliper
Differential Caliper
Apparent Water Res.
Sandstone Density Por.
Density Correction
127°
Sandstone Neutron Por.
Shallow FE
Spontaneous Potential
Gamma R3800
TVD
DST Uphole Tension
128°
3850
TVD
128°
3900
TVD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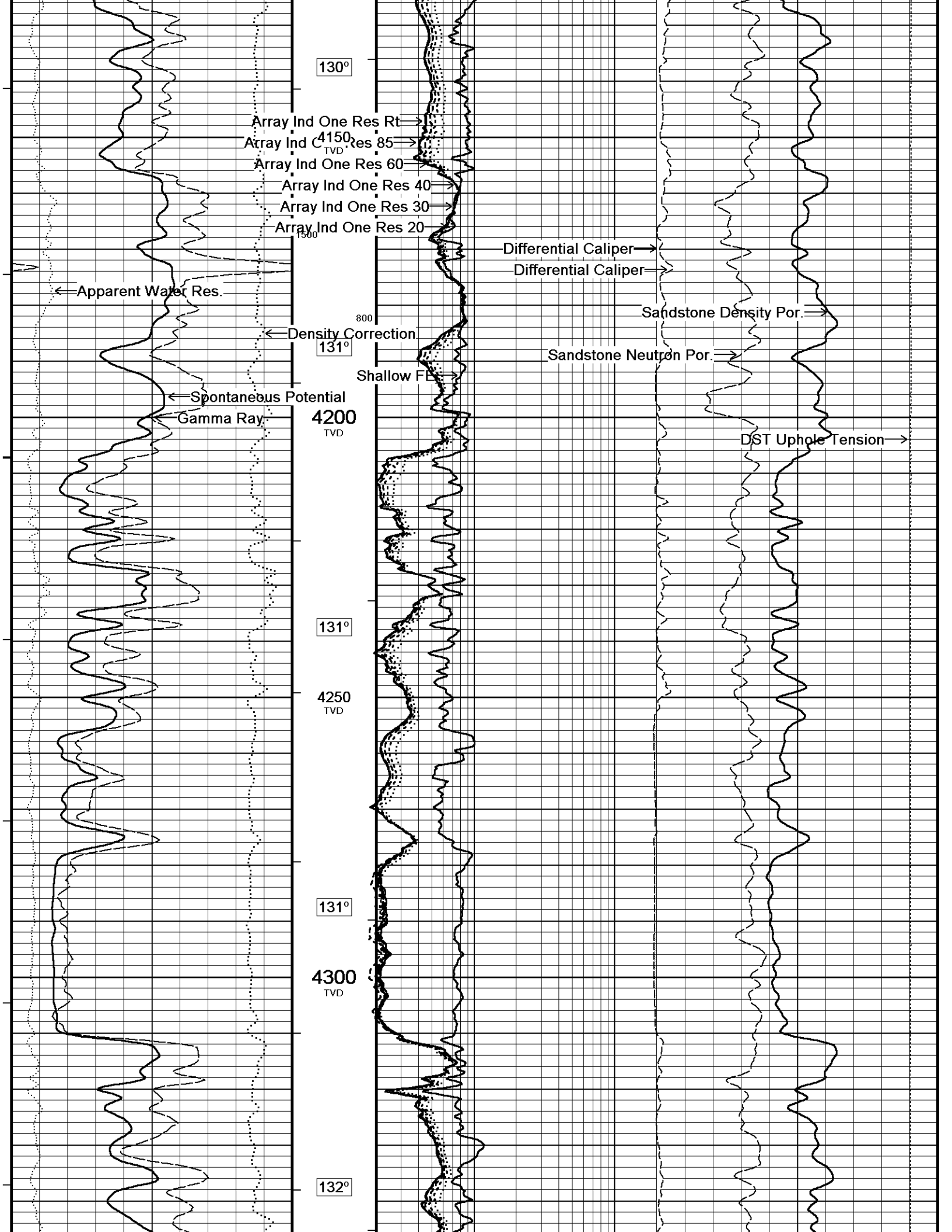
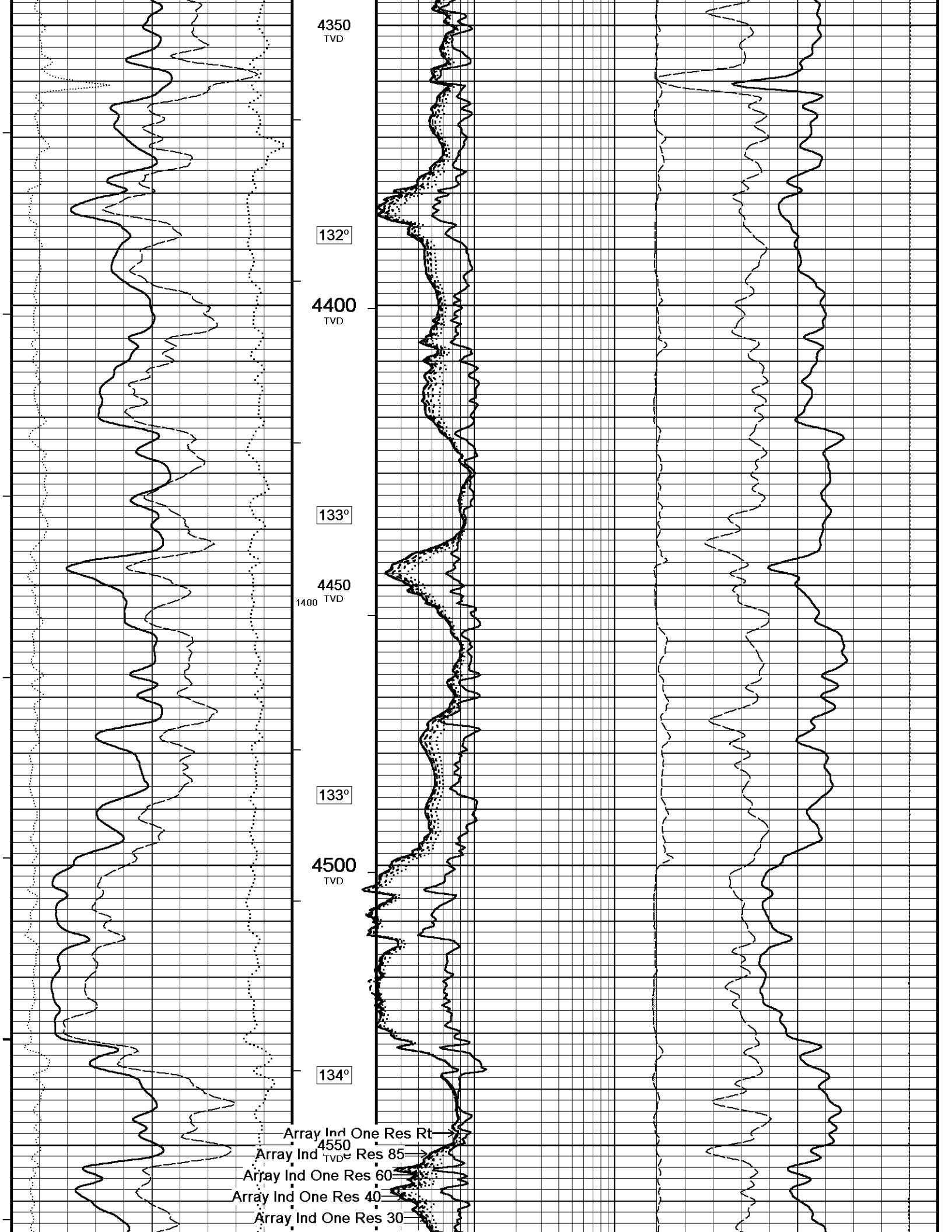
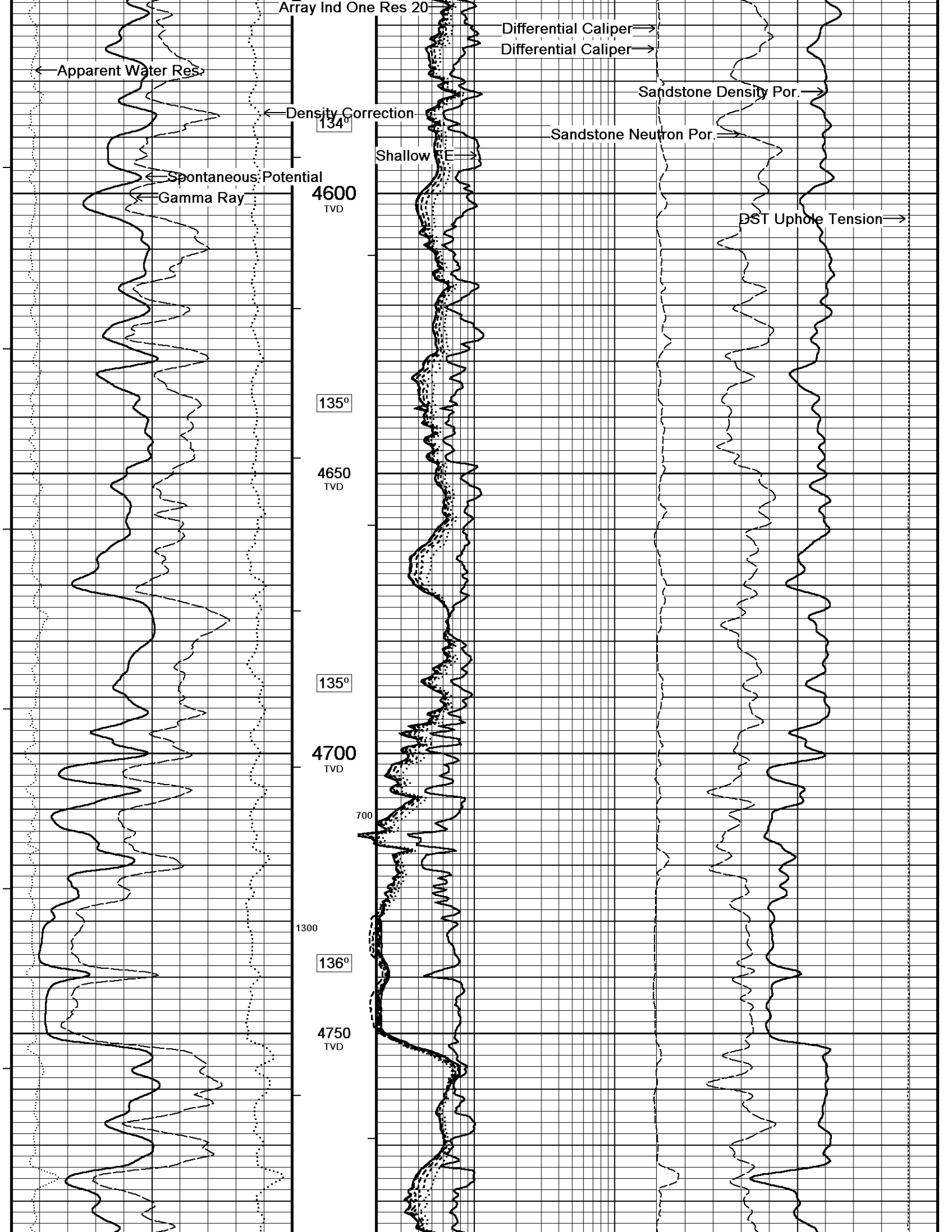
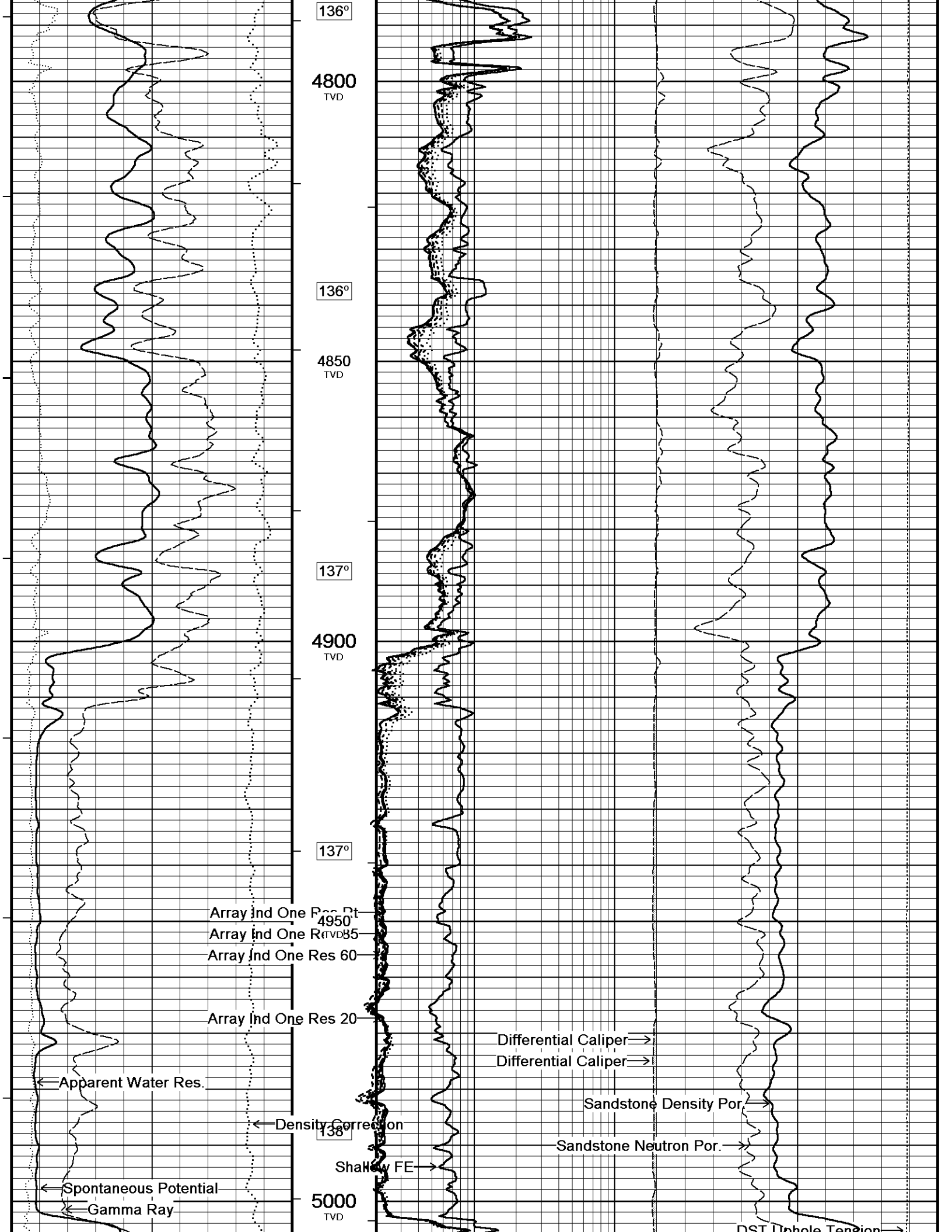
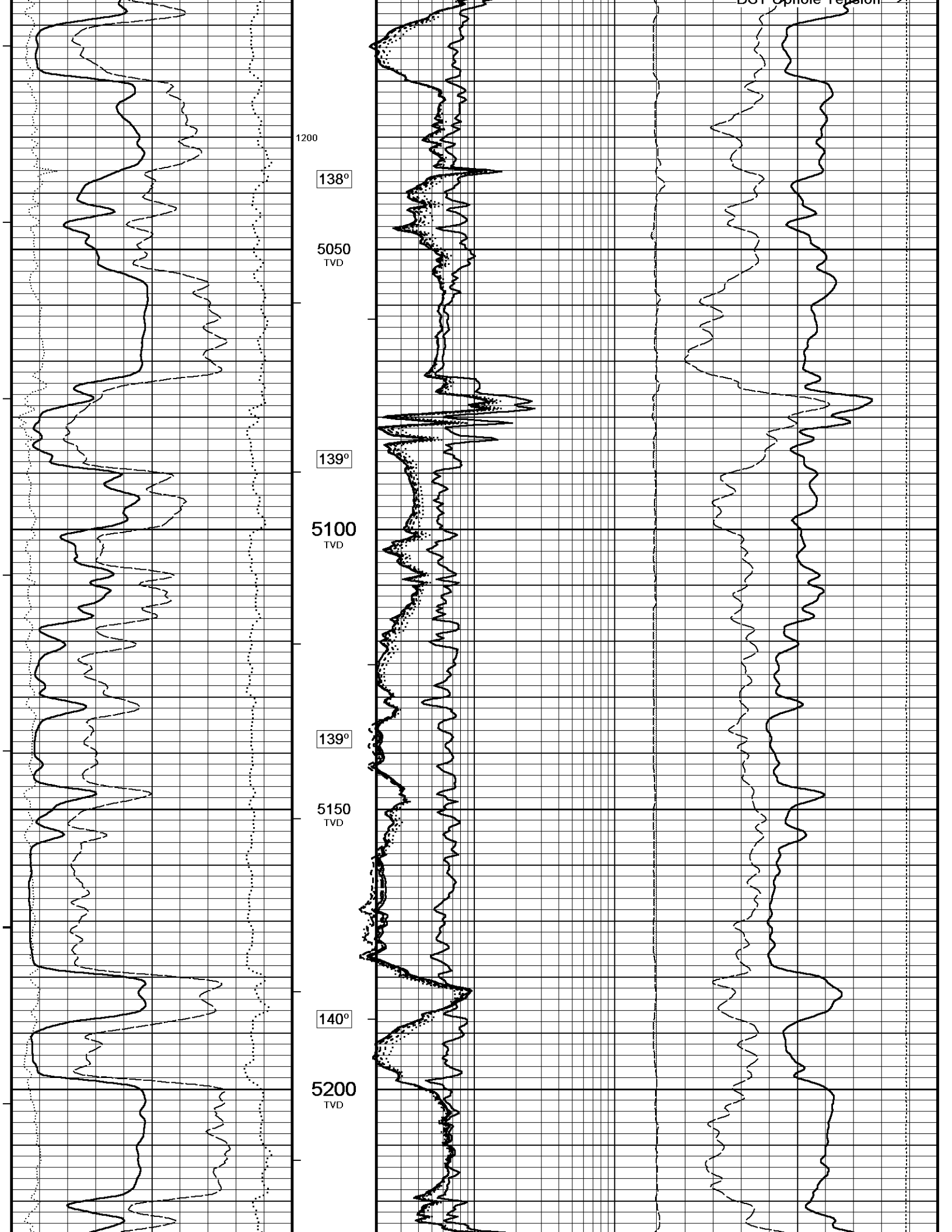
129°
3950
TVD
129°
4000
TVD
129°
4050
TVD
130°
4100
TVD

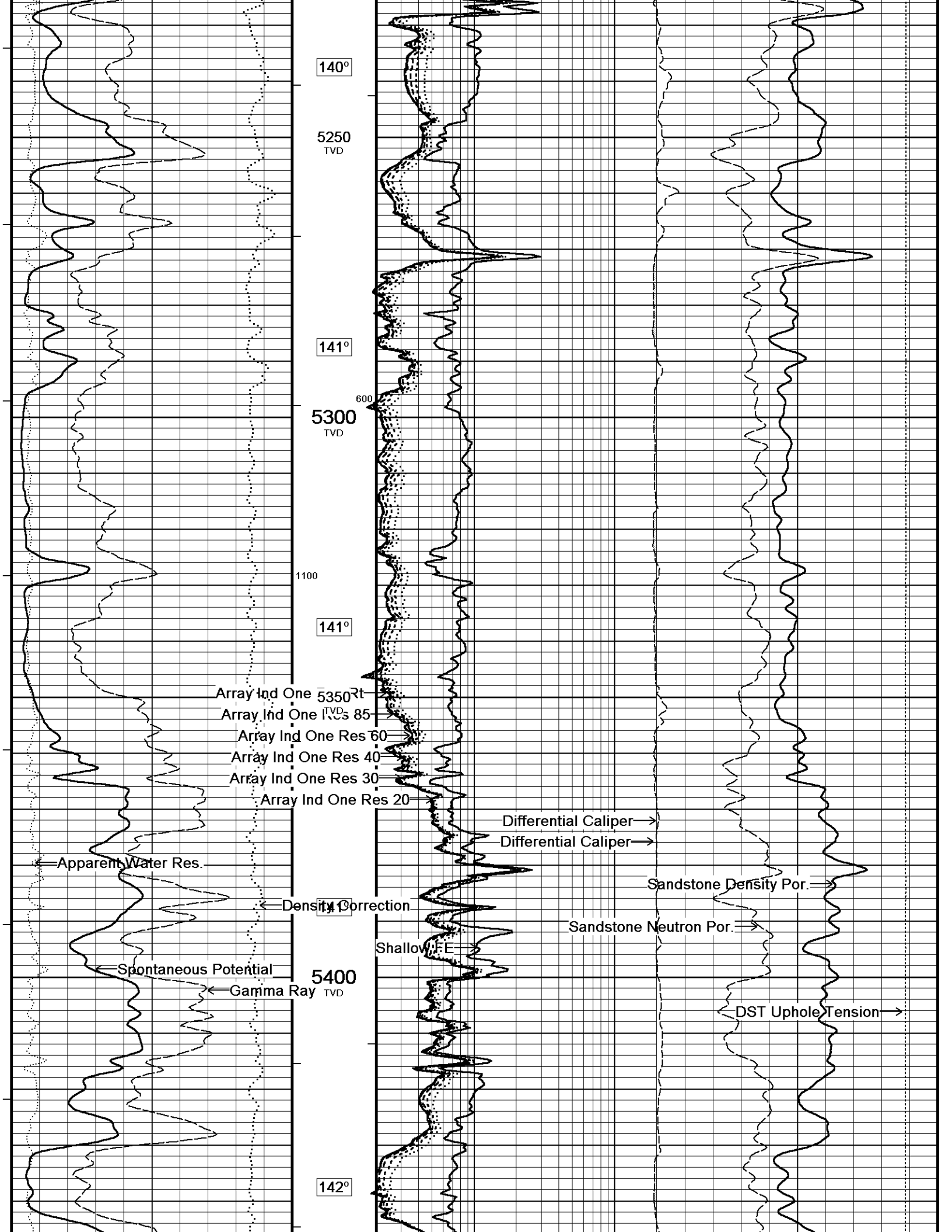

130°
Array Ind One Res Rt
Array Ind One Res 85
4150
TVD
Array Ind One Res 60
Array Ind One Res 40
Array Ind One Res 30
Array Ind One Res 20
1500
Differential Caliper
Differential Caliper
Apparent Water Res.
800
Sandstone Density Por.
Density Correction
131°
Sandstone Neutron Por.
Shallow FE
Spontaneous Potential
Gamma Ray
4200
TVD
DST Uphole Tension
131°
4250
TVD
131°
4300
TVD
132°

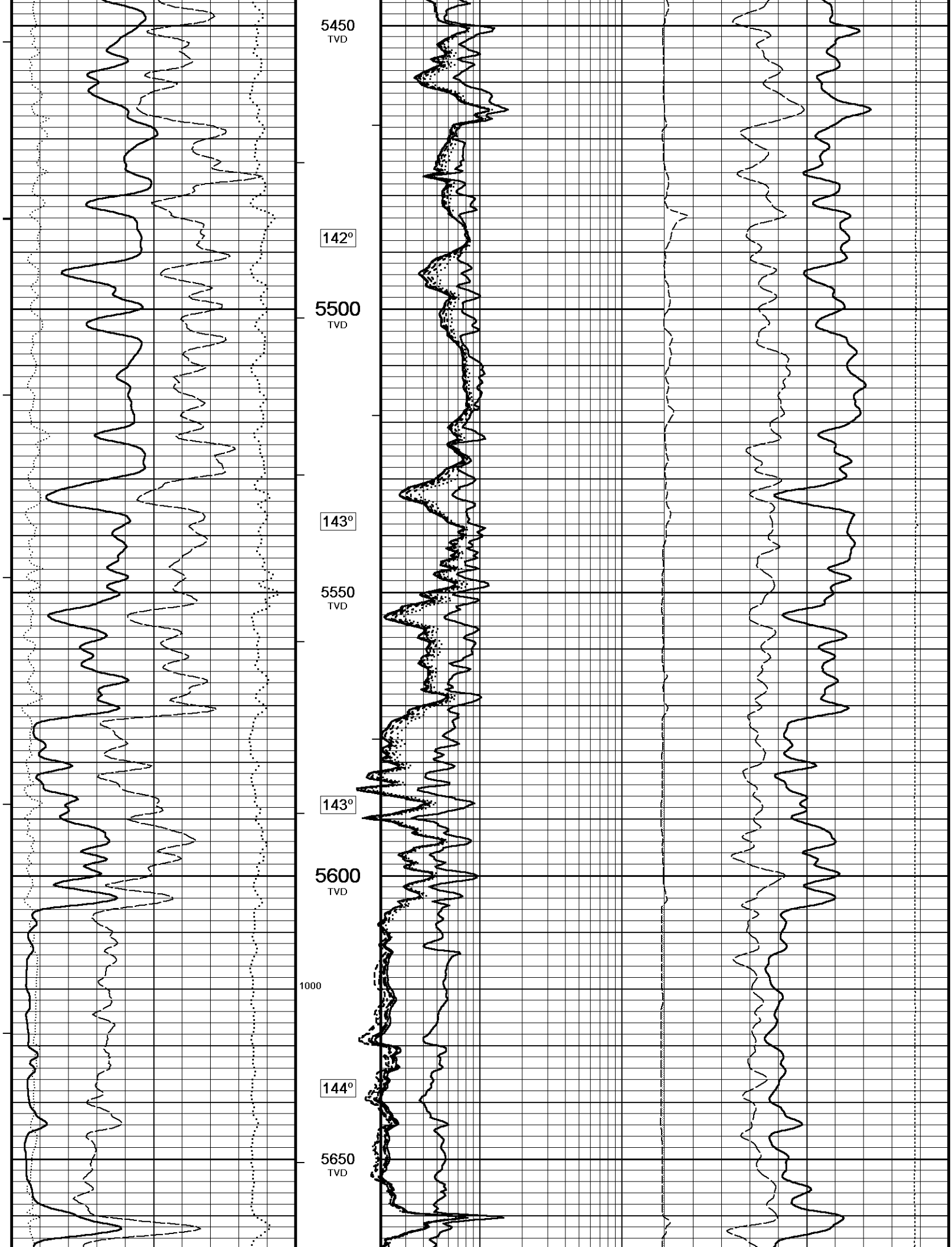

4350
TVD
132°
4400
TVD
133°
4450
1400 TVD
133°
4500
TVD
134°
4550
TVD
Array Ind One Res Rt
Array Ind One Res 85
Array Ind One Res 60
Array Ind One Res 40
Array Ind One Res 30

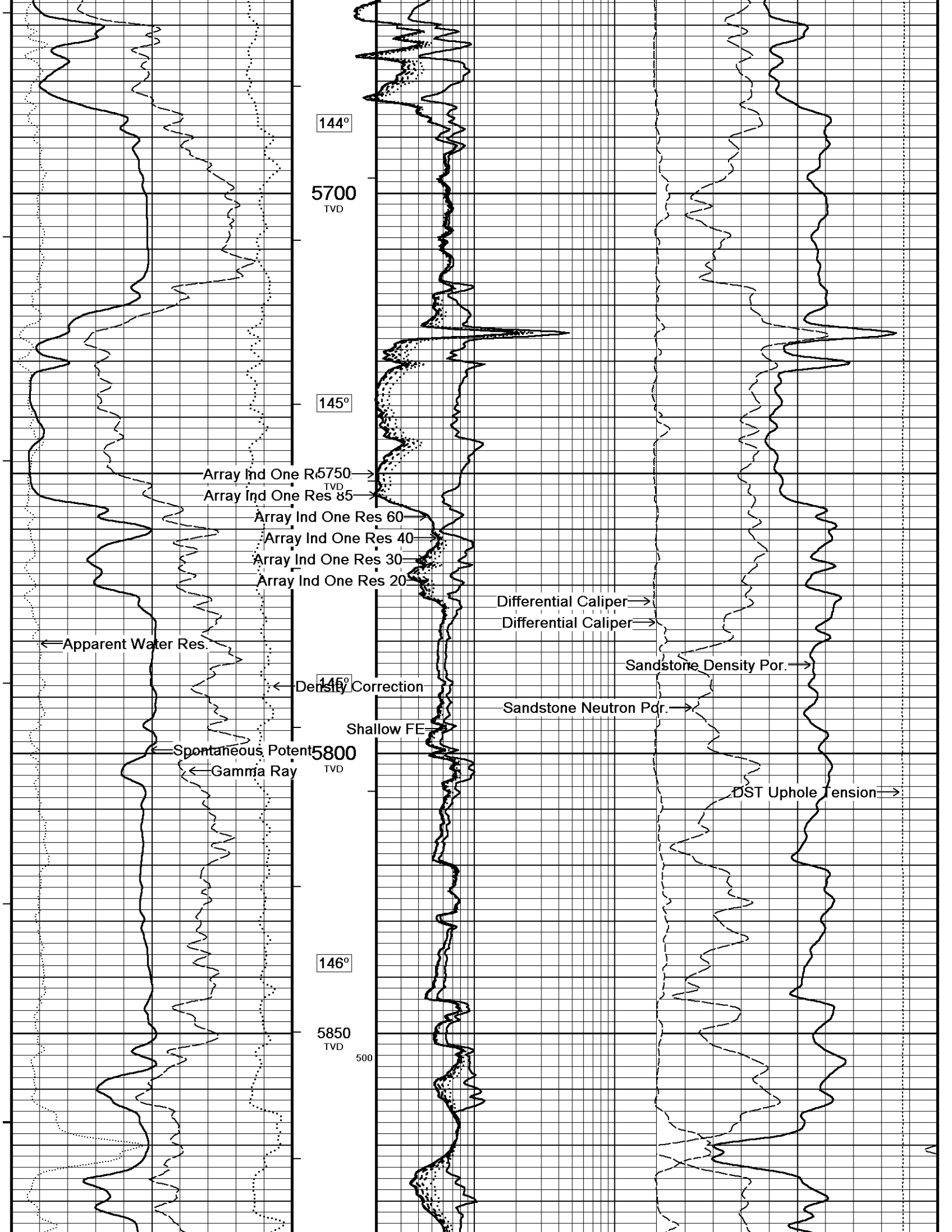

Array Ind One Res 20
Differential Caliper
Differential Caliper
Apparent Water Res.
Sandstone Density Por.
Density Correction
134°
Sandstone Neutron Por.
Shallow EE
Spontaneous Potential
Gamma Ray
4600
TVD
DST Uphole Tension
135°
4650
TVD
135°
4700
TVD
700
1300
136°
4750
TVD

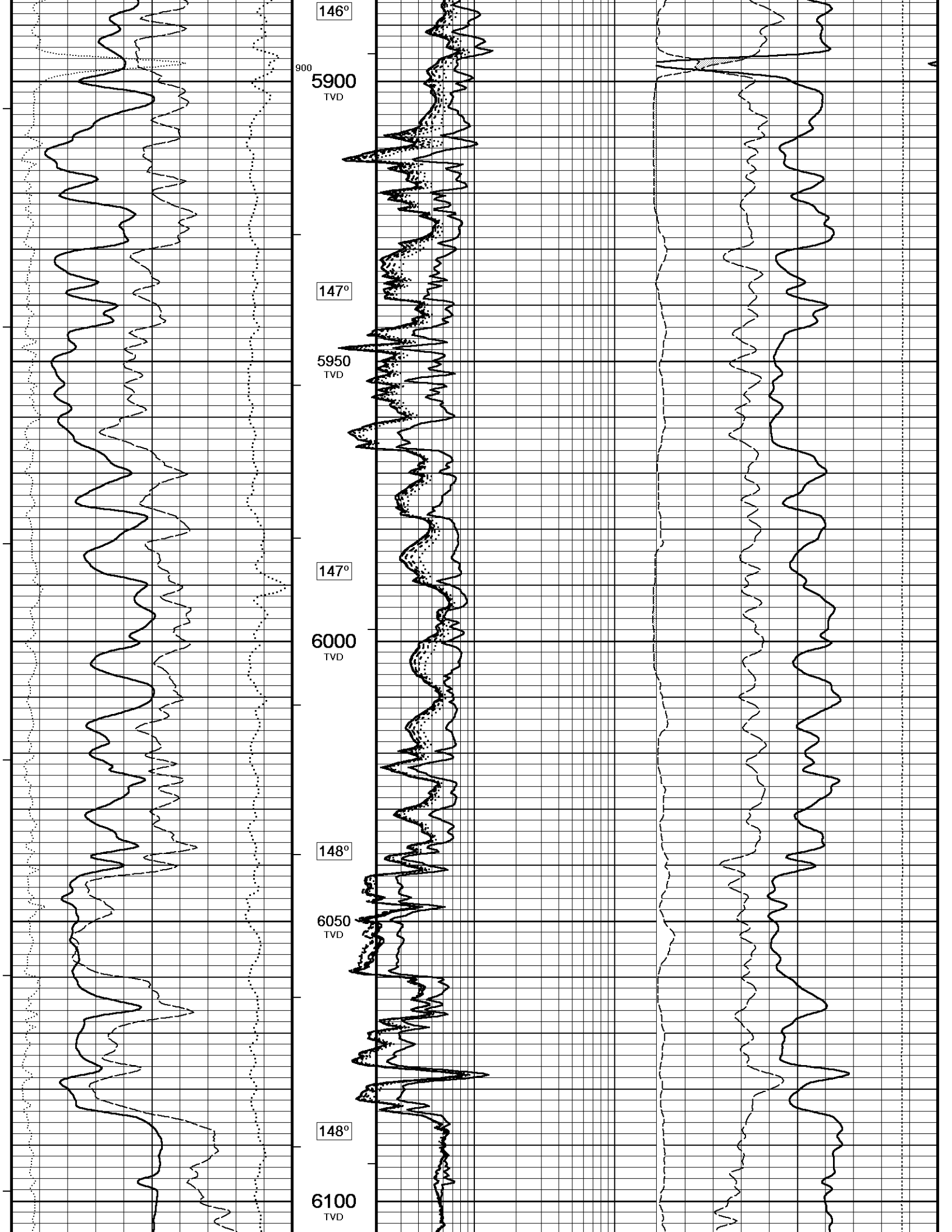

136°
4800
TVD
136°
4850
TVD
137°
4900
TVD
137°
4950
TVD
138°
5000
TVD
Array Ind One Res 85
Array Ind One Res 60
Array Ind One Res 20
Apparent Water Res.
Density Correction
Spontaneous Potential
Gamma Ray
Differential Caliper
Differential Caliper
Sandstone Density Por.
Sandstone Neutron Por.
Shallow FE
DST Uphole Tension

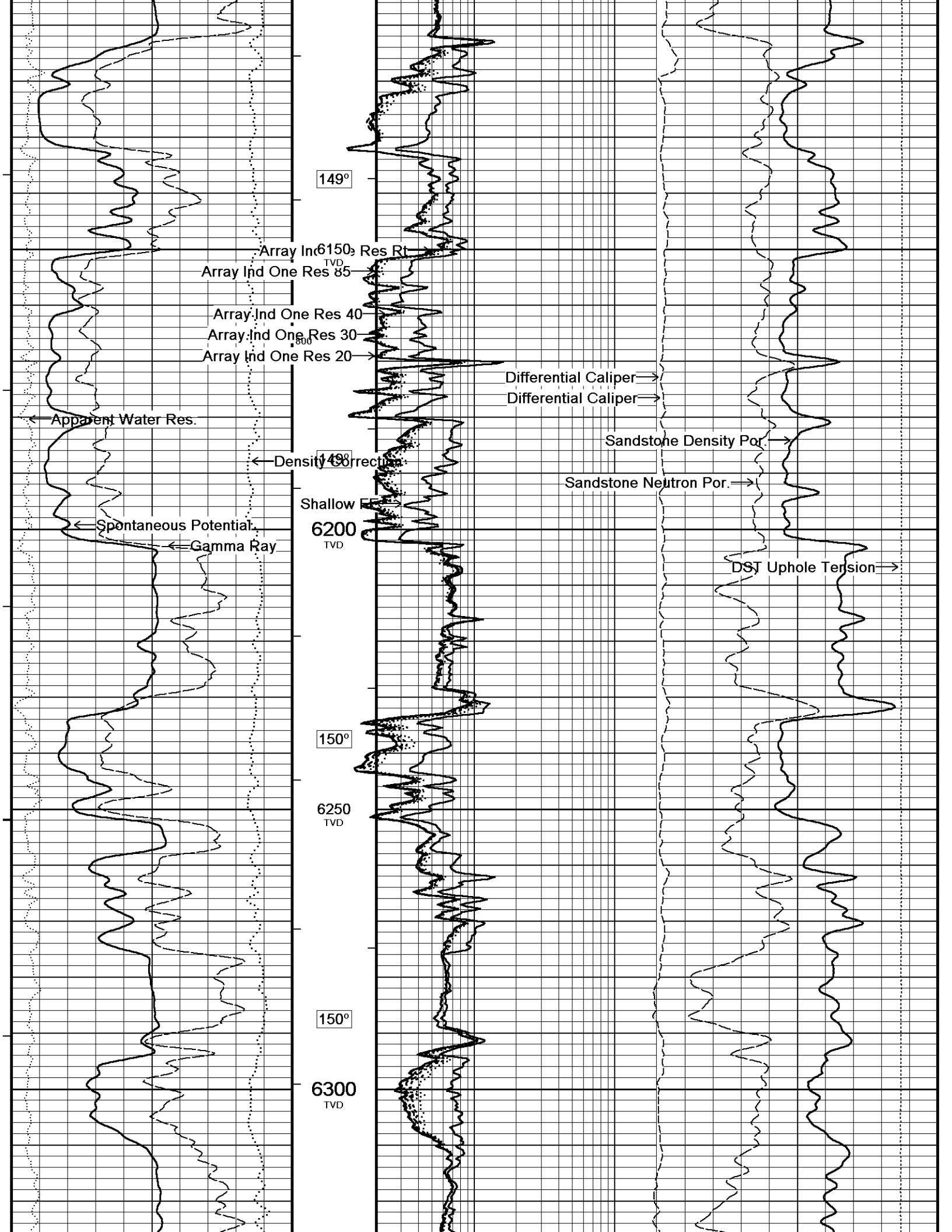

DST Opihole Tension
1200
138°
5050
TVD
139°
5100
TVD
139°
5150
TVD
140°
5200
TVD

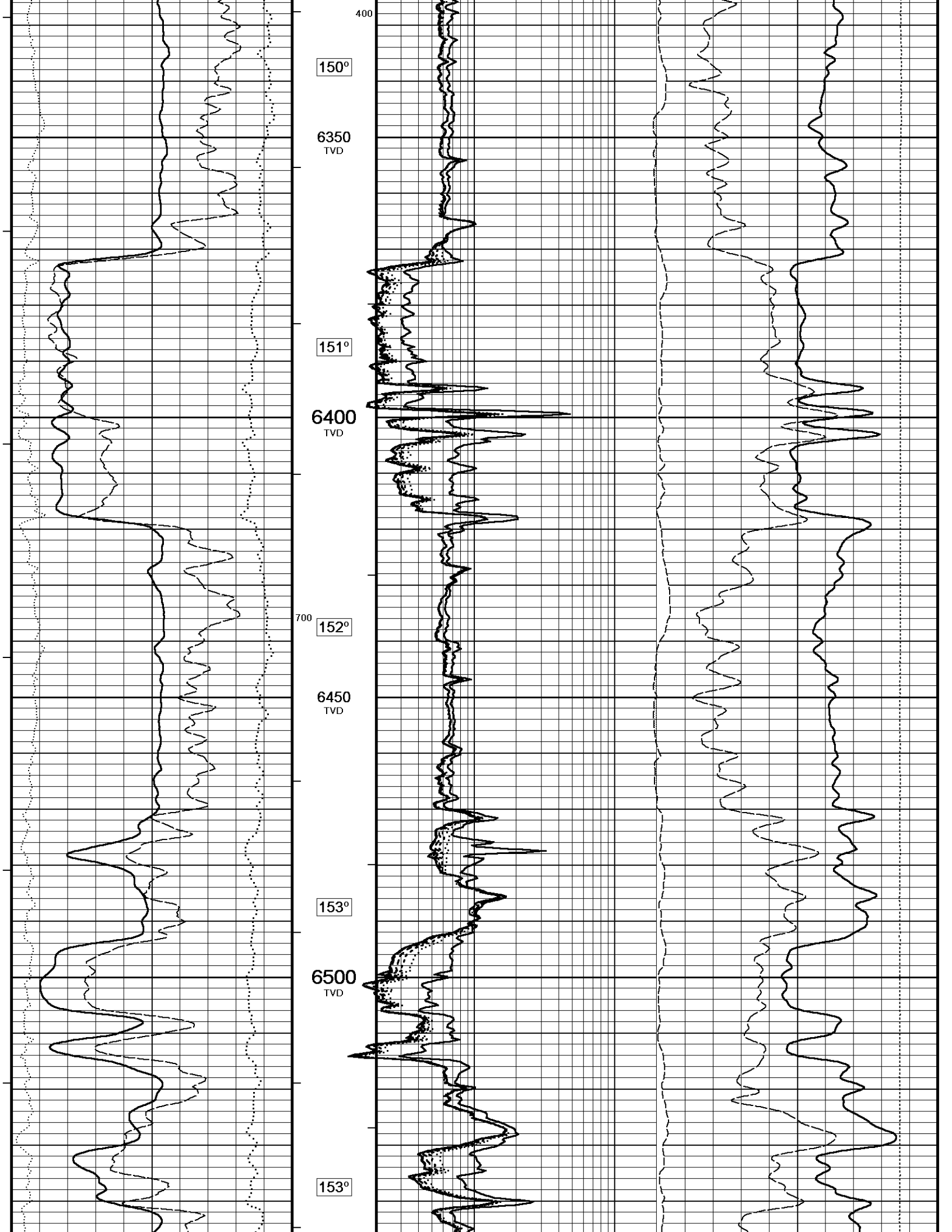

140°
5250
TVD
141°
600
5300
TVD
1100
141°
Array Ind One 5350 Rt
Array Ind One Res 85
TVD
Array Ind One Res 60
Array Ind One Res 40
Array Ind One Res 30
Array Ind One Res 20
Differential Caliper
Differential Caliper
Apparent Water Res.
Sandstone Density Por.
Density Correction
Sandstone Neutron Por.
Shallow PE
Spontaneous Potential
5400
Gamma Ray
TVD
DST Uphole Tension
142°

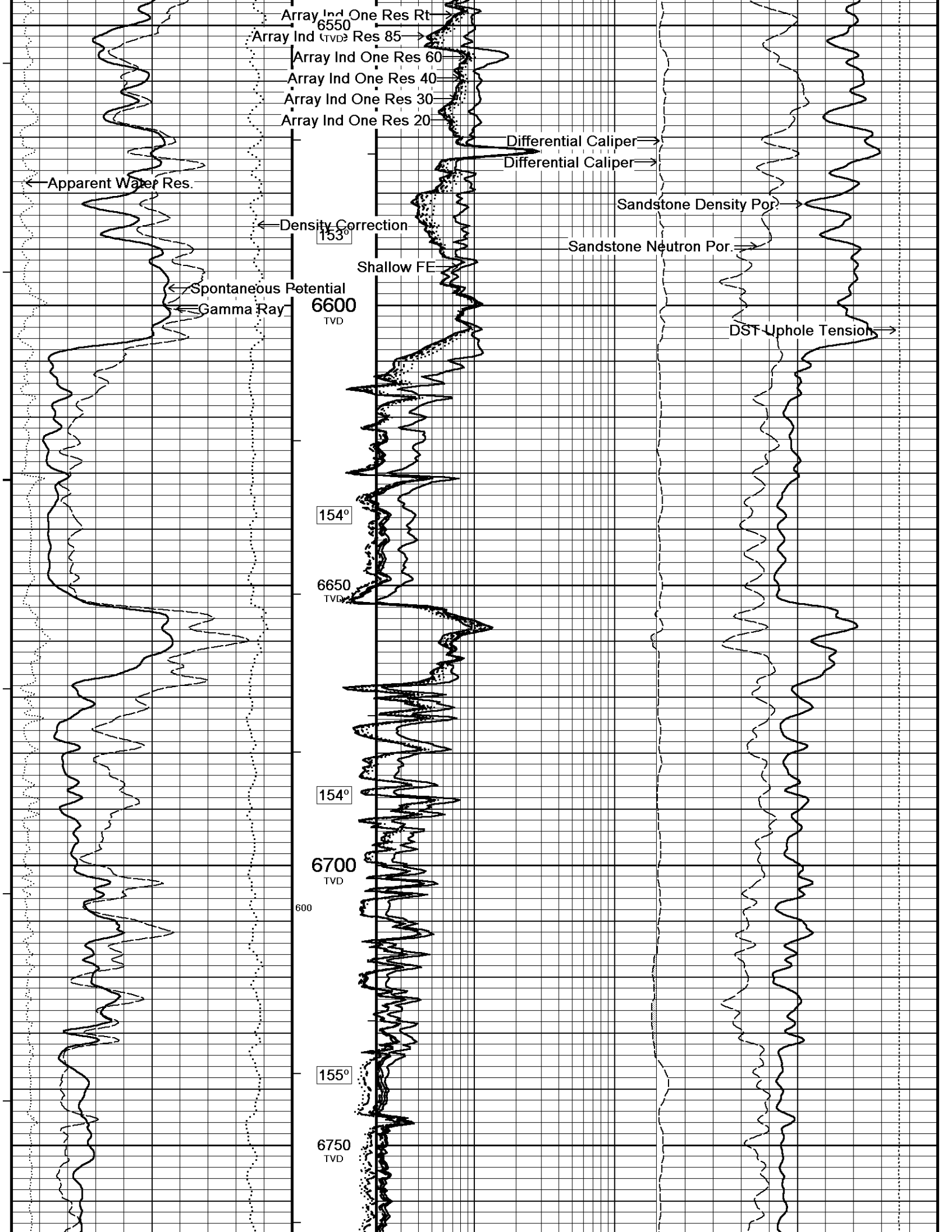

5450
TVD
142°
5500
TVD
143°
5550
TVD
143°
5600
TVD
1000
144°
5650
TVD

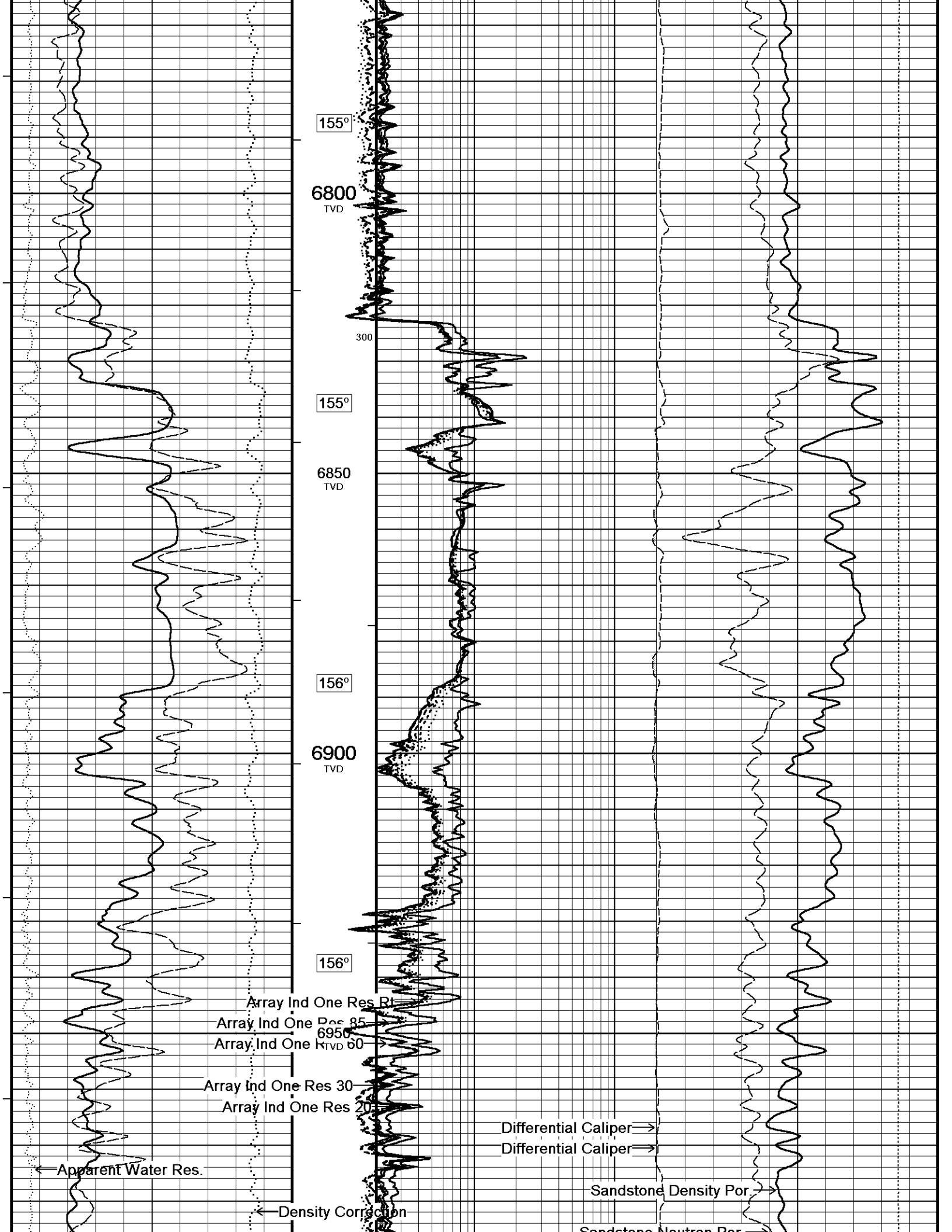

144°
5700
TVD
145°
Array Ind One R
5750
TVD
Array Ind One Res 85
Array Ind One Res 60
Array Ind One Res 40
Array Ind One Res 30
Array Ind One Res 20
Differential Caliper
Differential Caliper
Apparent Water Res.
Sandstone Density Por.
145°
Density Correction
Sandstone Neutron Por.
Shallow FE
Spontaneous Potent
5800
TVD
Gamma Ray
DST Uphole Tension
146°
5850
TVD
500

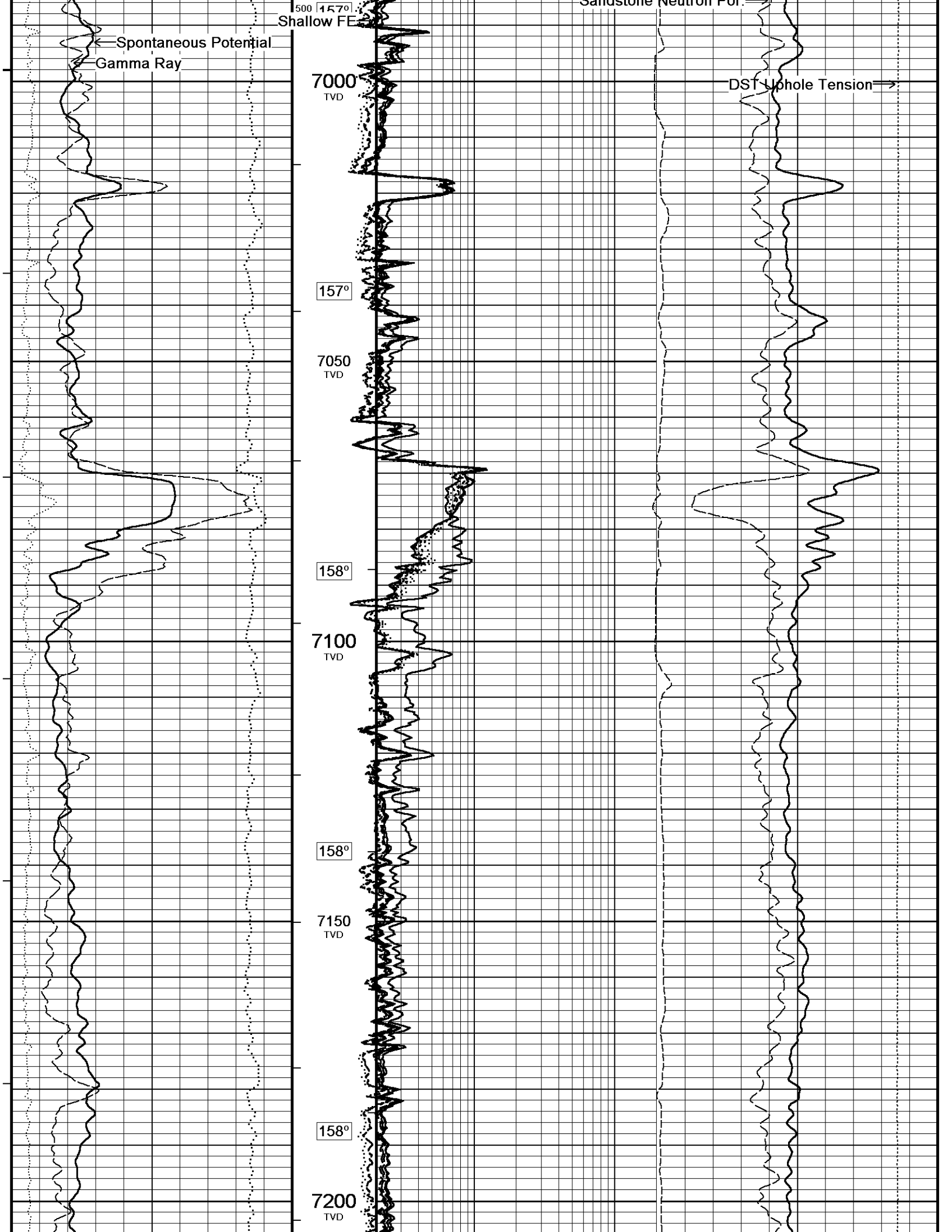

146°
900
5900
TVD
147°
5950
TVD
147°
6000
TVD
148°
6050
TVD
148°
6100
TVD

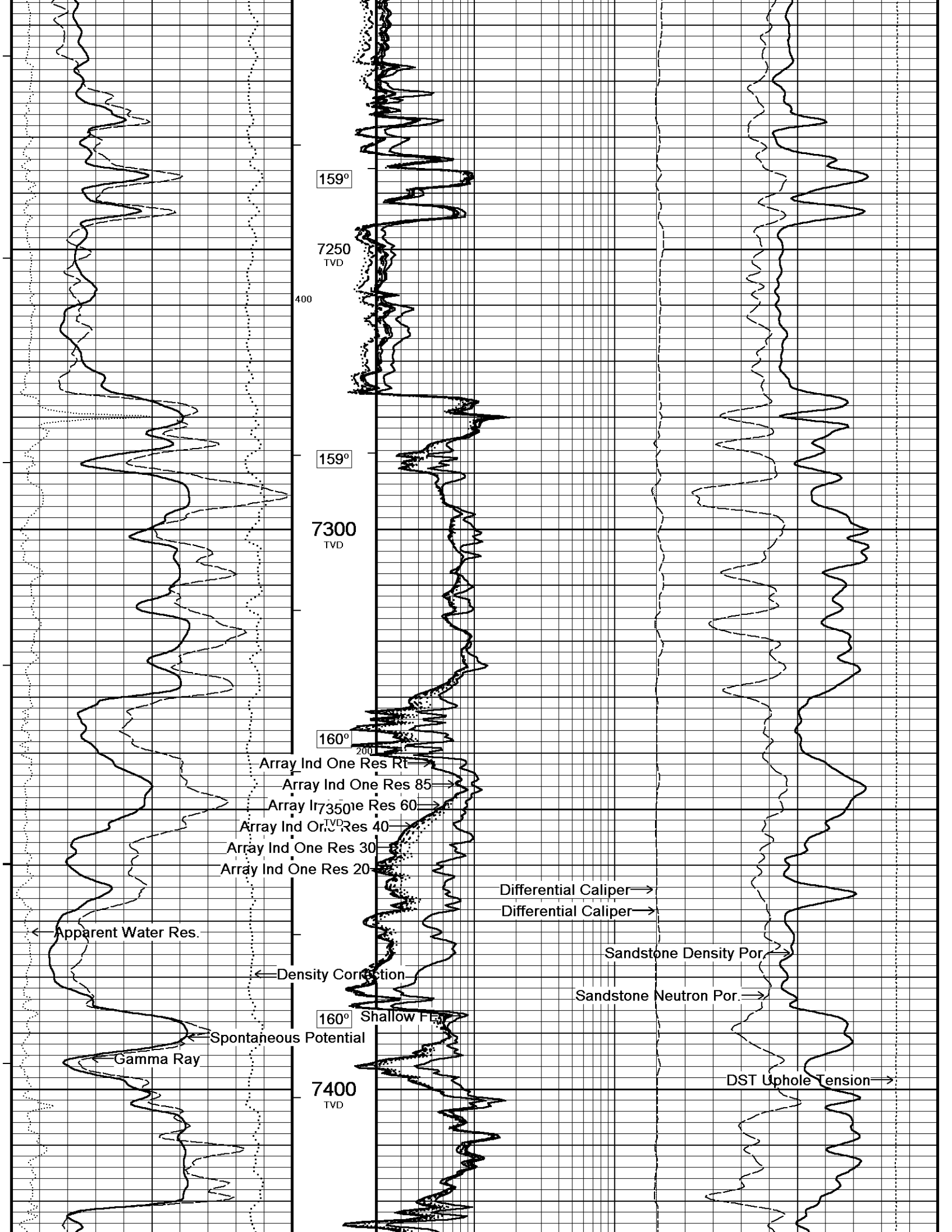

149°
Array Ind One Res Rt
6150
TVD
Array Ind One Res 85
Array Ind One Res 40
Array Ind One Res 30
800
Array Ind One Res 20
Differential Caliper
Differential Caliper
Apparent Water Res.
Sandstone Density Por.
149°
Density Correction
Sandstone Neutron Por.
Shallow Res
6200
TVD
Spontaneous Potential
Gamma Ray
DST Uphole Tension
150°
6250
TVD
150°
6300
TVD

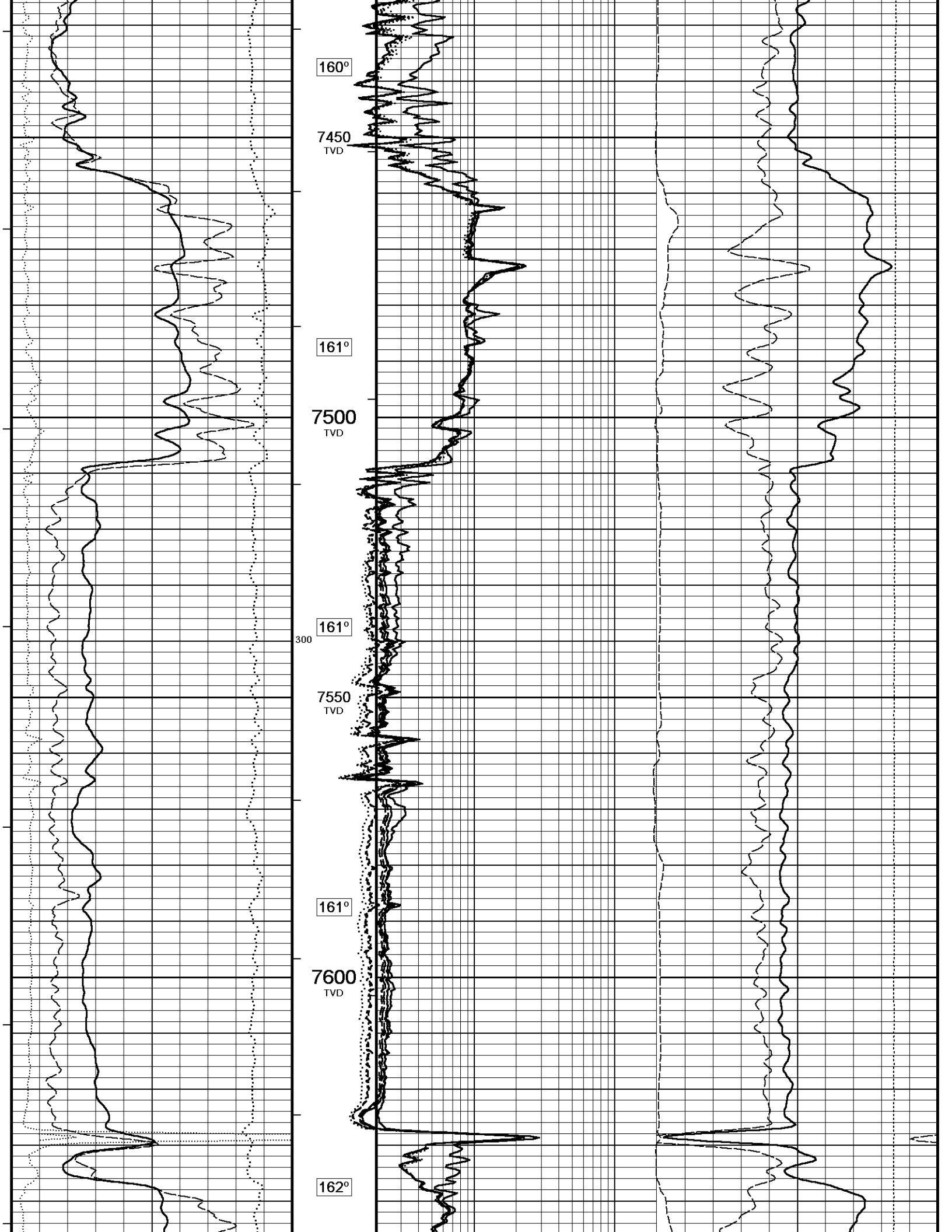

400
150°
6350
TVD
151°
6400
TVD
700
152°
6450
TVD
153°
6500
TVD
153°

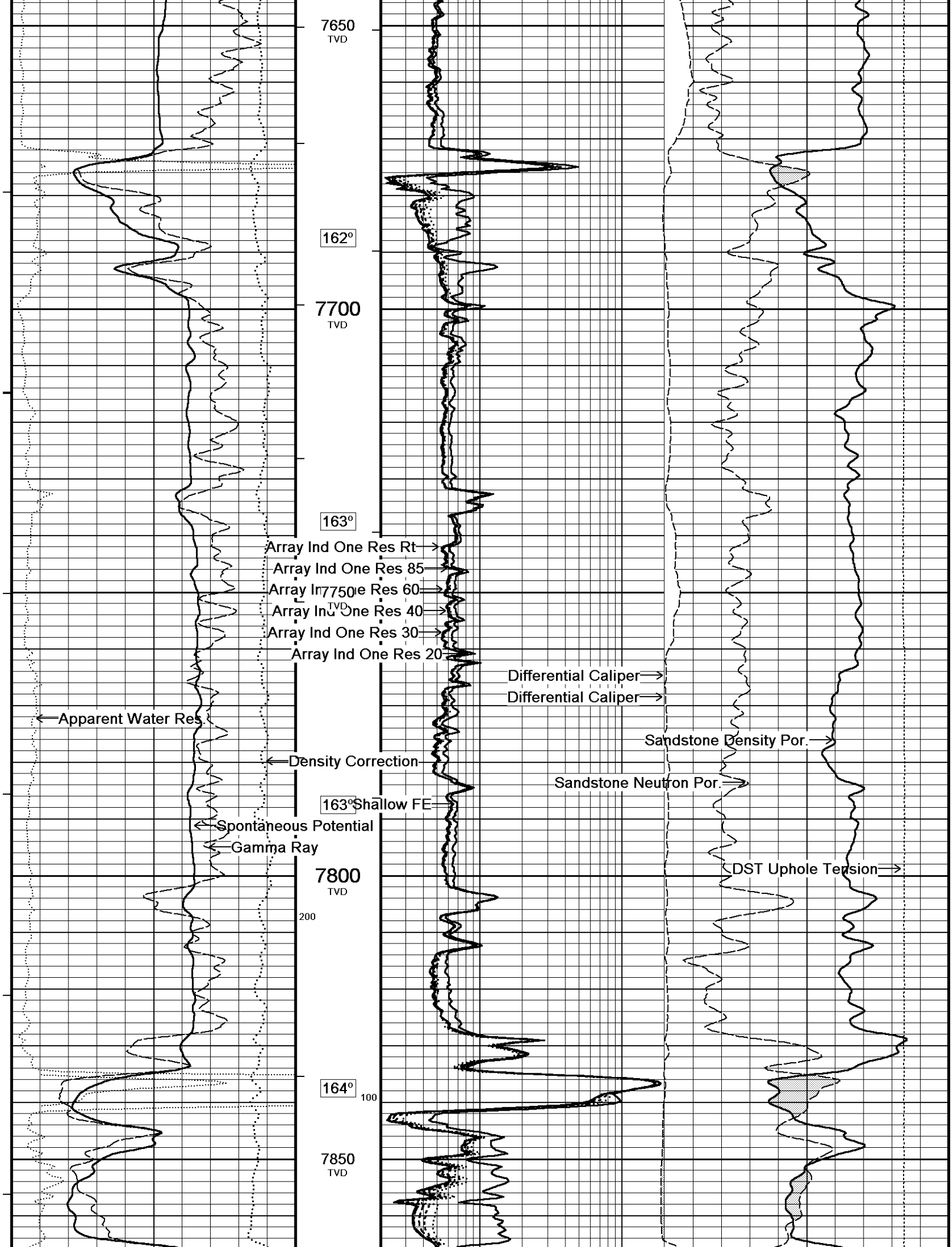

Array Ind One Res Rt
6550
Array Ind (TVD) Res 85
Array Ind One Res 60
Array Ind One Res 40
Array Ind One Res 30
Array Ind One Res 20
Differential Caliper
Differential Caliper
Apparent Water Res.
Sandstone Density Por.
Density Correction
153°
Sandstone Neutron Por.
Shallow FE
Spontaneous Potential
Gamma Ray
6600
TVD
DST Uphole Tension
154°
6650
TVD
154°
6700
TVD
600
155°
6750
TVD

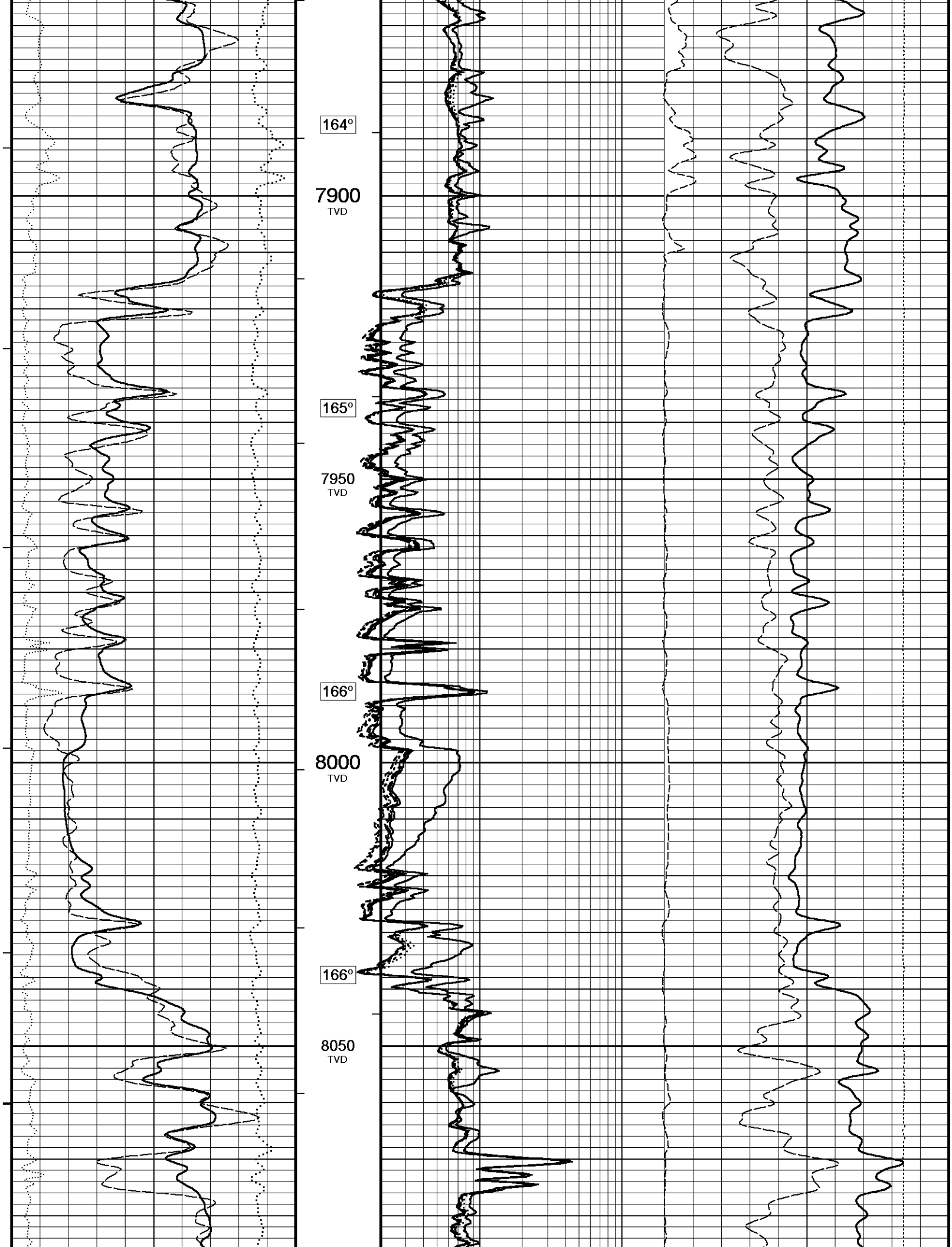

155°
6800
TVD
300
155°
6850
TVD
156°
6900
TVD
156°
6950
TVD
Array Ind One Res RI
Array Ind One Res 85
Array Ind One Res 60
Array Ind One Res 30
Array Ind One Res 20
Differential Caliper
Differential Caliper
Apparent Water Res.
Density Correction
Sandstone Density Por
Sandstone Neutron Por

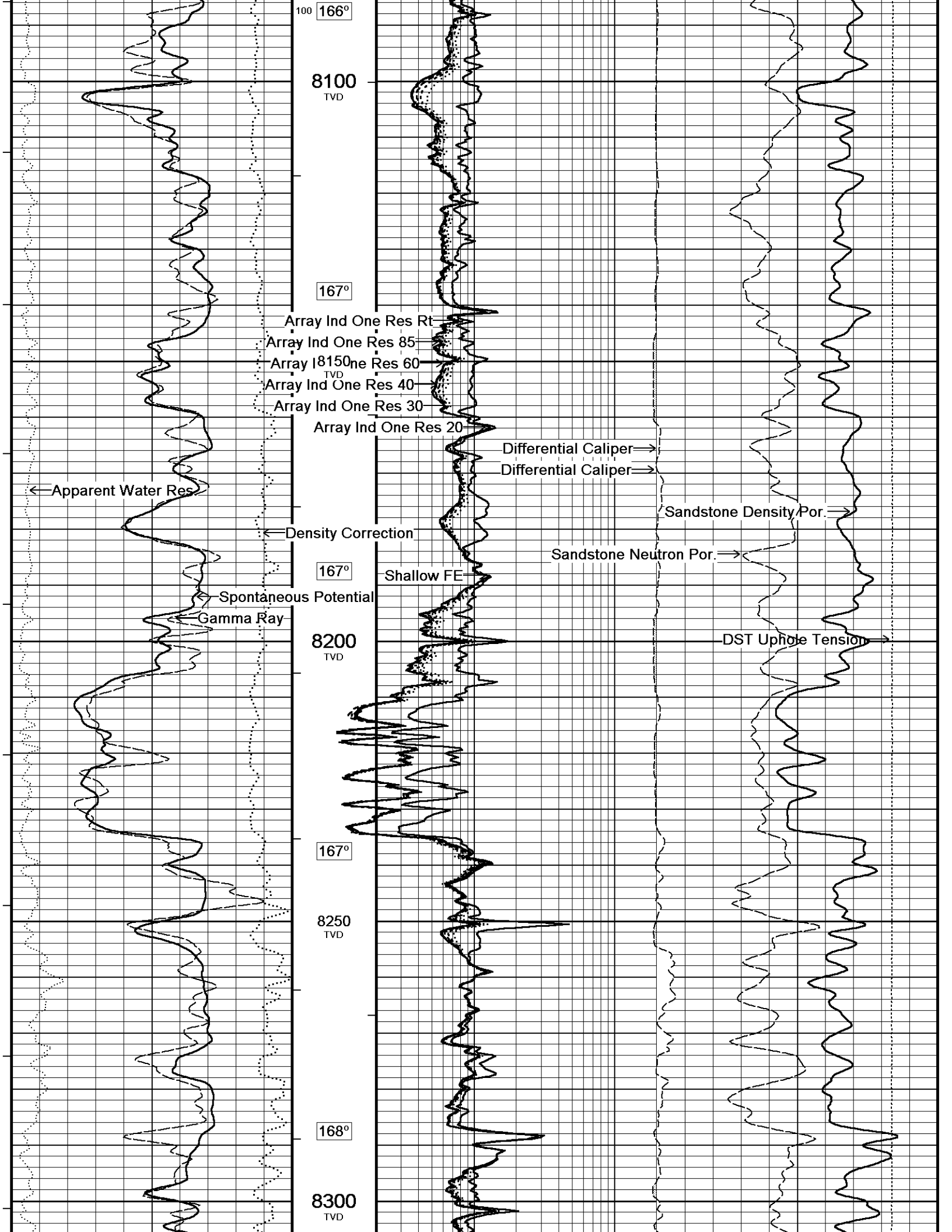

500
157°
Shallow FE
Spontaneous Potential
Gamma Ray
7000
TVD
157°
7050
TVD
158°
7100
TVD
158°
7150
TVD
158°
7200
TVD
Sandstone Neutron Por.
DST Uphole Tension

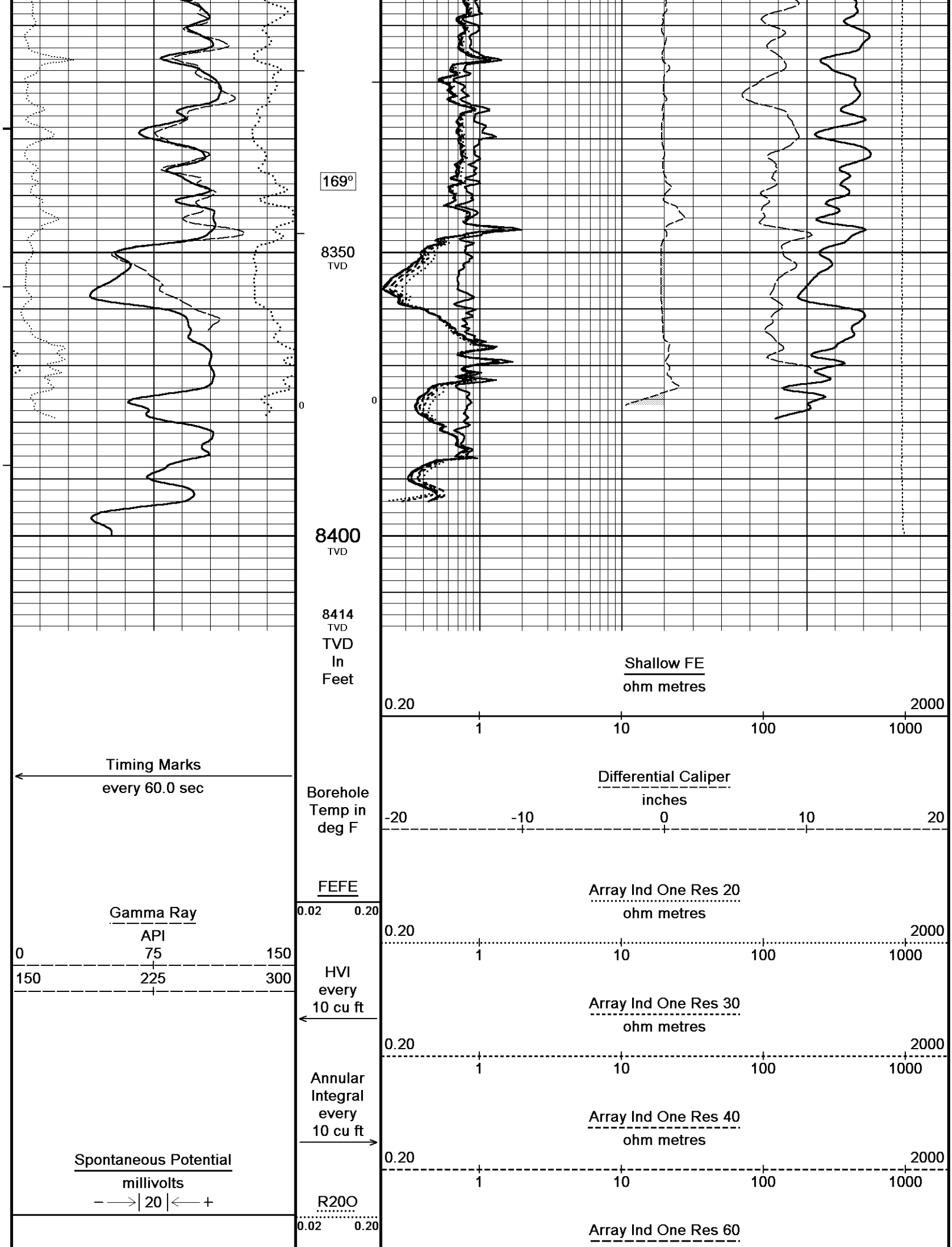

159°
7250
TVD
400
159°
7300
TVD
160°
200
Array Ind One Res Rt
Array Ind One Res 85
Array Ind One Res 60
7350
TVD
Array Ind One Res 40
Array Ind One Res 30
Array Ind One Res 20
Differential Caliper
Differential Caliper
Apparent Water Res.
Sandstone Density Por.
Density Correction
Sandstone Neutron Por.
160°
Shallow Res.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
7400
TVD

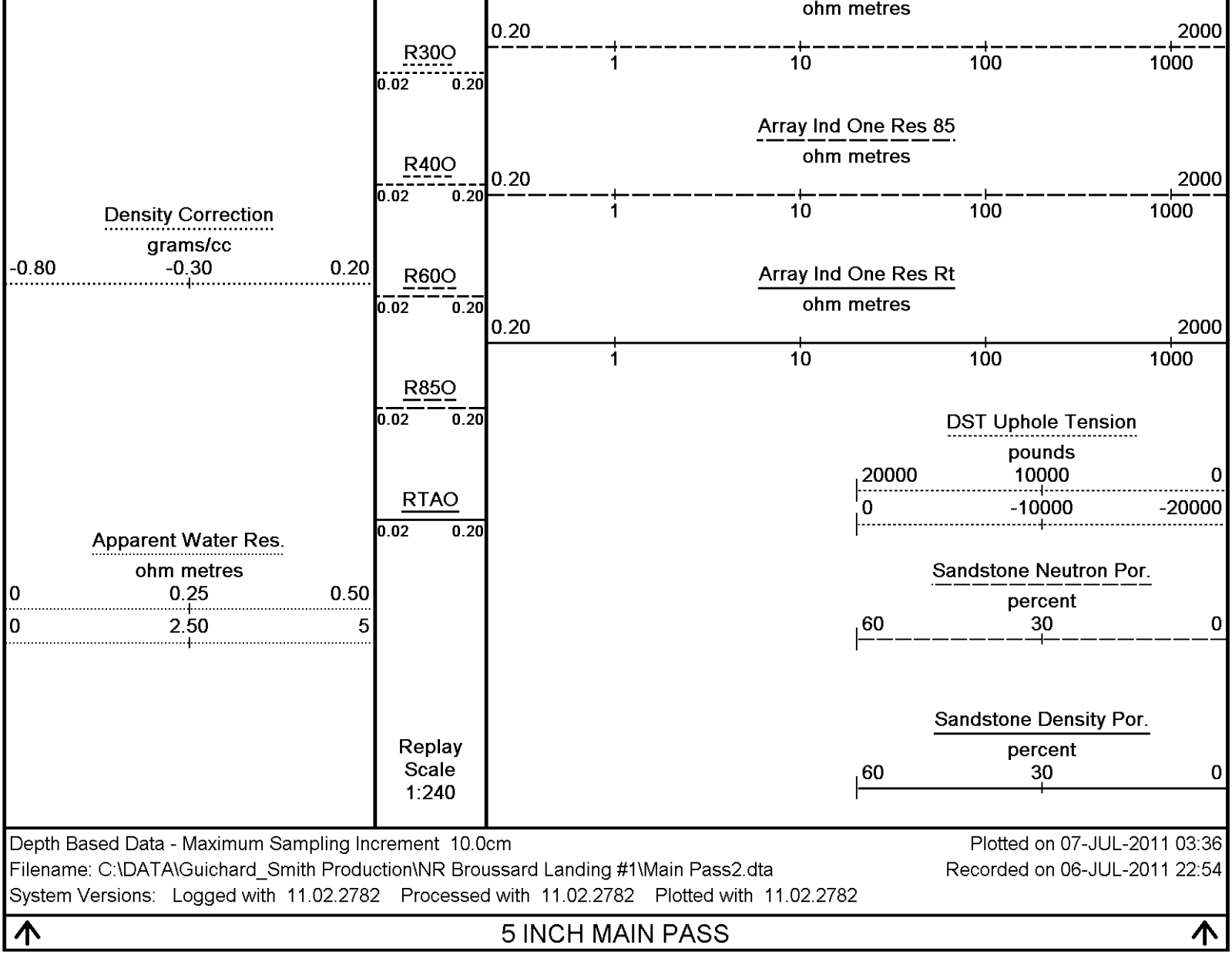

160°
7450
TVD
161°
7500
TVD
161°
300
7550
TVD
161°
7600
TVD
162°


7650
TVD
162°
7700
TVD
163°
Array Ind One Res Rt
Array Ind One Res 85
Array Ind One Res 60
7750
TVD
Array Ind One Res 40
Array Ind One Res 30
Array Ind One Res 20
Differential Caliper
Differential Caliper
Apparent Water Res.
Sandstone Density Por.
Density Correction
Sandstone Neutron Por.
163°
Shallow FE
Spontaneous Potential
Gamma Ray
7800
TVD
DST Uphole Tension
200
164°
100
7850
TVD


164°
7900
TVD
165°
7950
TVD
166°
8000
TVD
166°
8050
TVD


100
166°
8100
TVD
167°
Array Ind One Res Rt
Array Ind One Res 85
Array Ind One Res 60
8150
TVD
Array Ind One Res 40
Array Ind One Res 30
Array Ind One Res 20
Differential Caliper
Differential Caliper
Apparent Water Res
Sandstone Density Por.
Density Correction
Sandstone Neutron Por.
167°
Shallow FE
Spontaneous Potential
Gamma Ray
8200
TVD
DST Uphole Tension
167°
8250
TVD
168°
8300
TVD


169°
8350
TVD
0
0
8400
TVD
8414
TVD
TVD
In
Feet
Timing Marks
every 60.0 sec
Gamma Ray
API
0
75
150
150
225
300
Spontaneous Potential
millivolts
− 20 +
Borehole
Temp in
deg F
FEFE
0.02
0.20
HVI
every
10 cu ft
Annular
Integral
every
10 cu ft
R20O
0.02
0.20
Shallow FE
ohm metres
0.20
2000
1
10
100
1000
Differential Caliper
inches
-20
-10
0
10
20
Array Ind One Res 20
ohm metres
0.20
2000
1
10
100
1000
Array Ind One Res 30
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

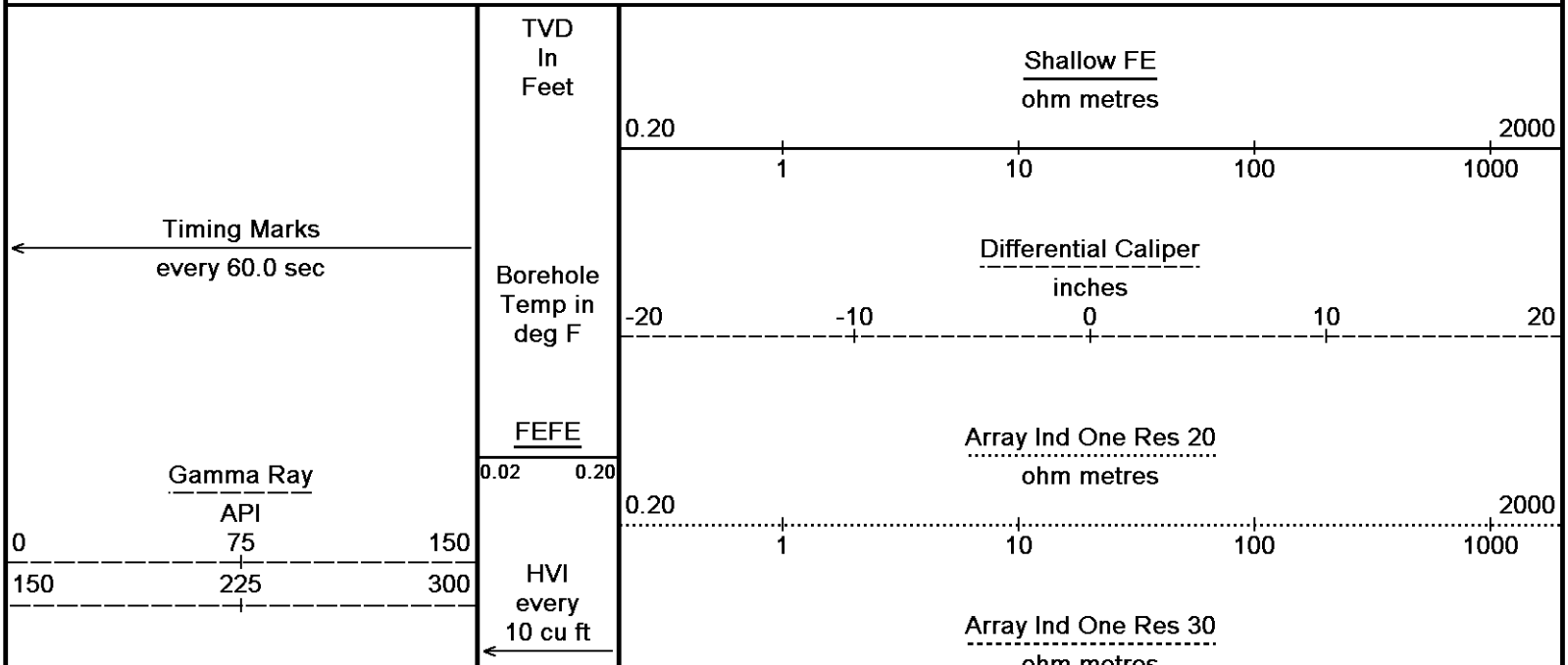


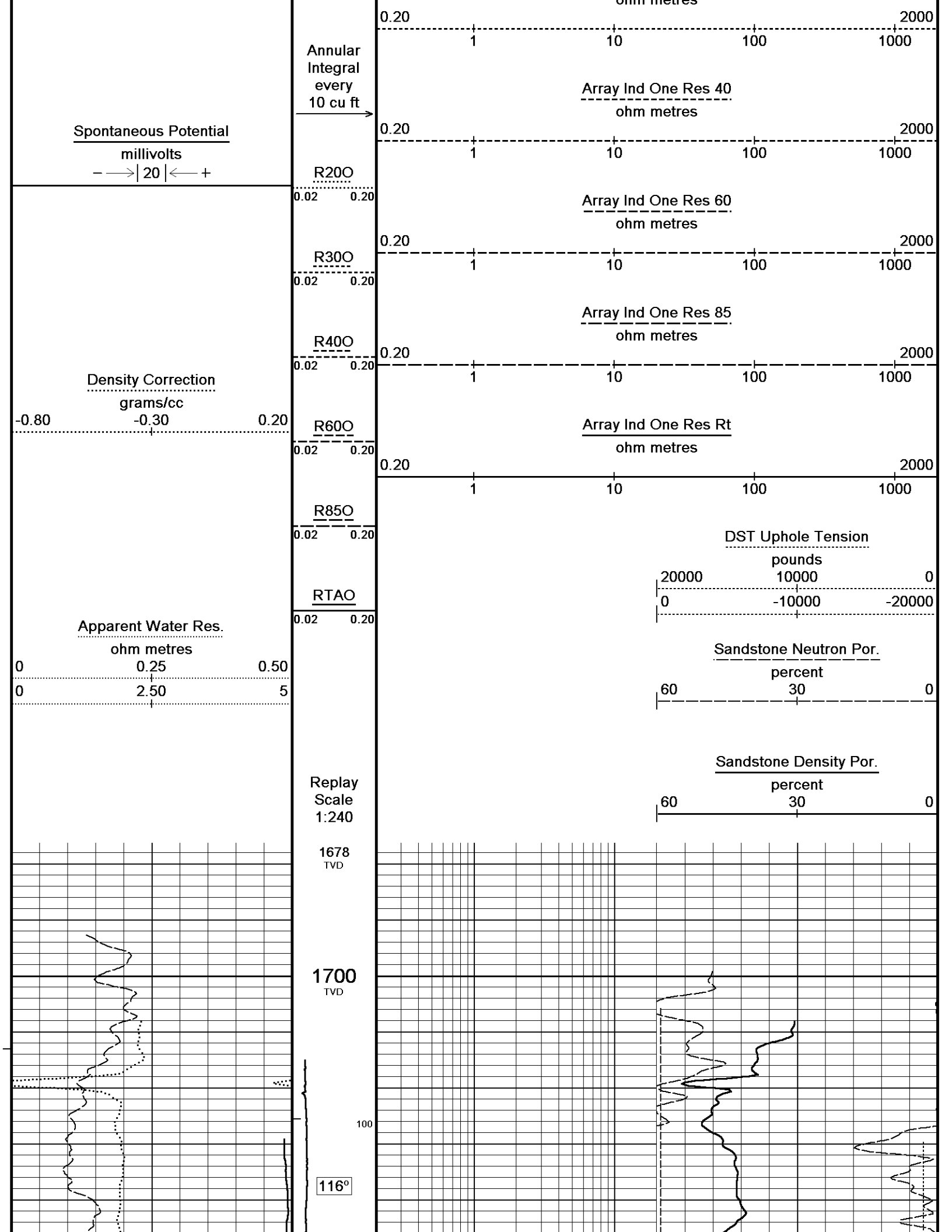
Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 07-JUL-2011 03:36
Filename: C:\DATA\Guichard_Smith Production\NR Broussard Landing #1\Main Pass2.dta — Recorded on 06-JUL-2011 22:54
System Versions: Logged with 11.02.2782 Processed with 11.02.2782 Plotted with 11.02.2782

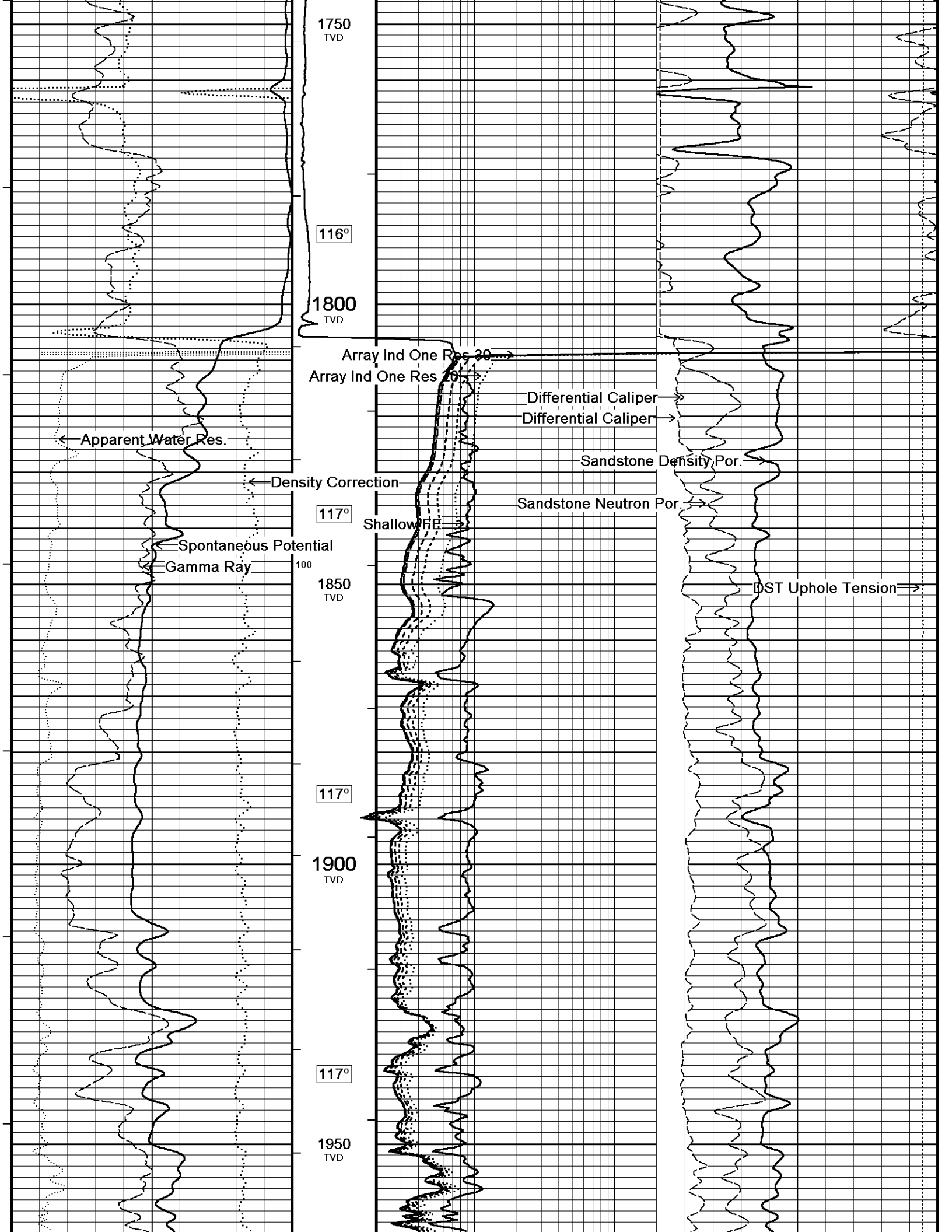
5 INCH MAIN PASS

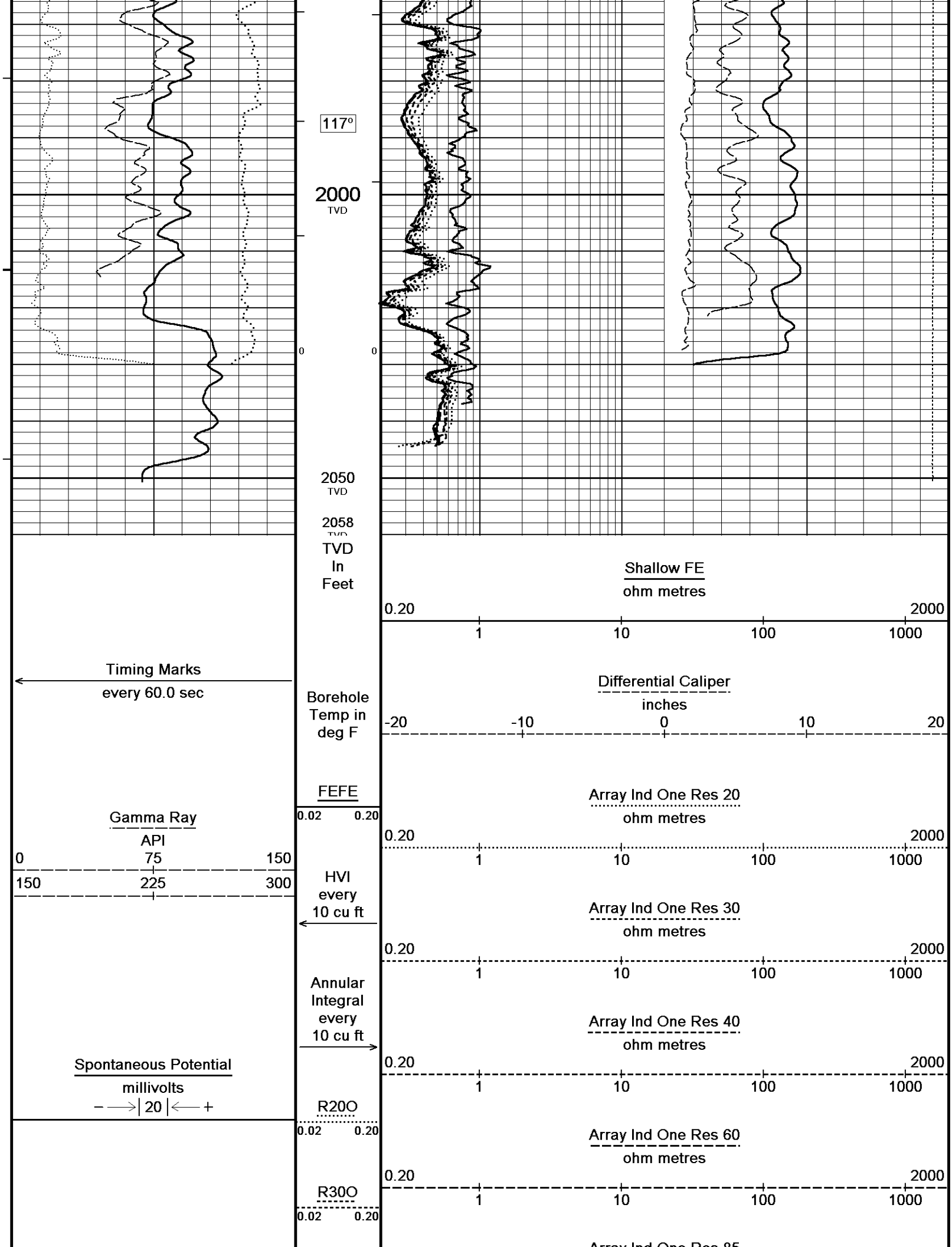
REPEAT SECTION

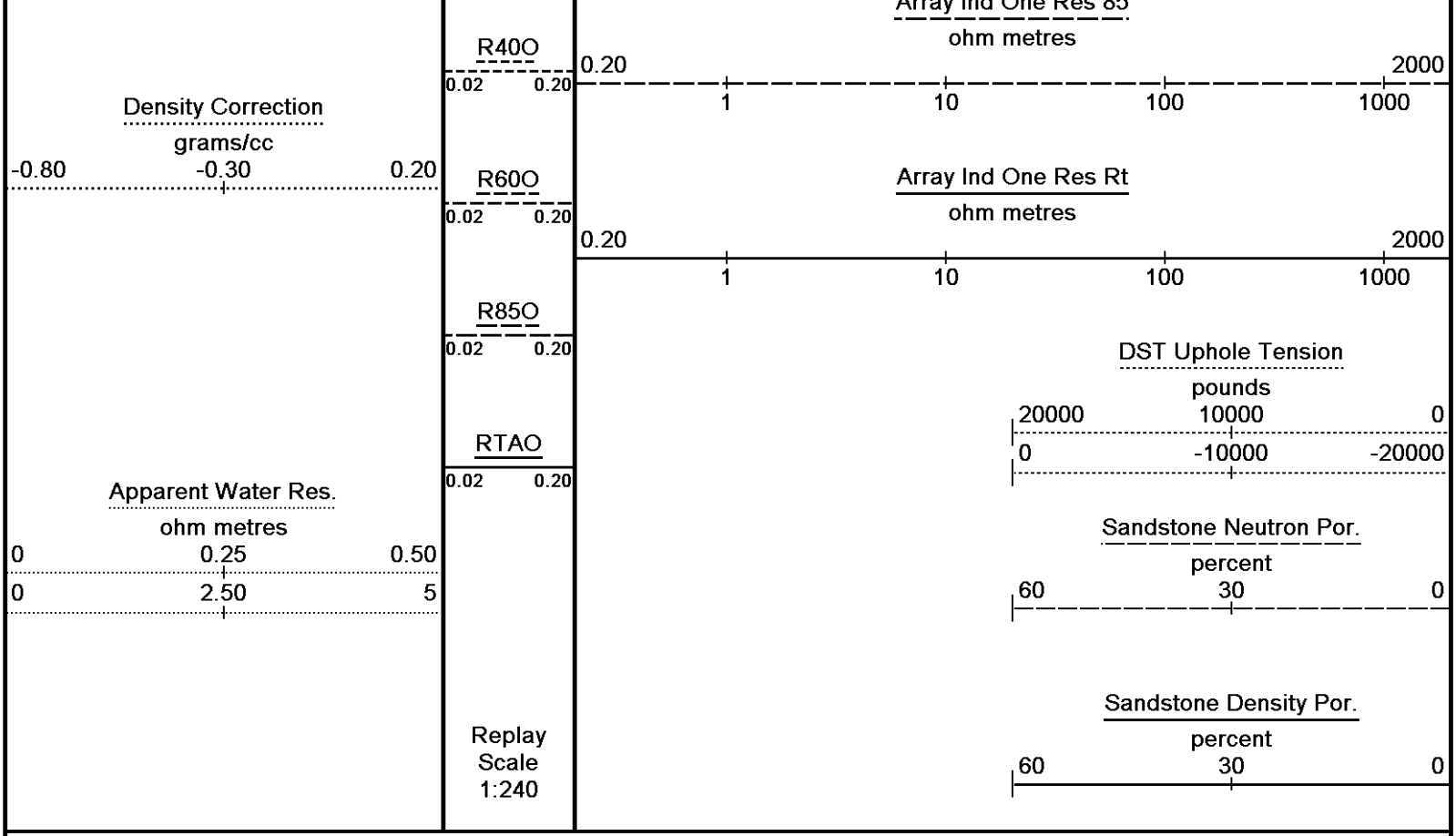
Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 07-JUL-2011 03:36
Filename: C:\DATA\Guichard_Smith Production\NR Broussard Landing #1\Repeat.dta — Recorded on 06-JUL-2011 20:37
System Versions: Logged with 11.02.2782 Processed with 11.02.2782 Plotted with 11.02.2782




Annular Integral every 10 cu ft
Spontaneous Potential
millivolts
− → | 20 | ← +
R20O
0.02 0.20
R30O
0.02 0.20
R40O
0.02 0.20
R60O
0.02 0.20
R85O
0.02 0.20
RTAO
0.02 0.20
Density Correction
grams/cc
-0.80 -0.30 0.20
Apparent Water Res.
ohm metres
0 0.25 0.50
0 2.50 5
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 85
ohm metres
0.20 2000
1 10 100 1000
Array Ind One Res Rt
ohm metres
0.20 2000
1 10 100 1000
DST Uphole Tension
pounds
20000 10000 0
0 -10000 -20000
Sandstone Neutron Por.
percent
60 30 0
Sandstone Density Por.
percent
60 30 0
Replay Scale 1:240
1678
TVD
1700
TVD
100
116°


1750
TVD
116°
1800
TVD
Array Ind One Res 30
Array Ind One Res 20
Differential Caliper
Differential Caliper
Apparent Water Res.
Sandstone Density Por.
Density Correction
Sandstone Neutron Por.
117°
Shallow HE
Spontaneous Potential
Gamma Ray
100
1850
TVD
DST Uphole Tension
117°
1900
TVD
117°
1950
TVD


117°
2000
TVD
0
0
2050
TVD
2058
TVD
TVD
In
Feet
Shallow FE
ohm metres
0.20
2000
1
10
100
1000
Timing Marks
every 60.0 sec
Borehole
Temp in
deg F
Differential Caliper
inches
-20
-10
0
10
20
FEFE
0.02
0.20
Array Ind One Res 20
ohm metres
0.20
2000
1
10
100
1000
Gamma Ray
API
0
75
150
150
225
300
HVI
every
10 cu ft
Array Ind One Res 30
ohm metres
0.20
2000
1
10
100
1000
Annular
Integral
every
10 cu ft
Array Ind One Res 40
ohm metres
0.20
2000
1
10
100
1000
Spontaneous Potential
millivolts
− 20 +
R20O
0.02
0.20
Array Ind One Res 60
ohm metres
0.20
2000
1
10
100
1000
R30O
0.02
0.20



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 07-JUL-2011 03:36

Filename: C:\DATA\Guichard_Smith Production\NR Broussard Landing #1\Repeat.dta — Recorded on 06-JUL-2011 20:37

System Versions: Logged with 11.02.2782 Processed with 11.02.2782 Plotted with 11.02.2782

REPEAT SECTION

BEFORE SURVEY CALIBRATION

C:\DATA\Guichard_Smith Production\NR Broussard Landing #1\Main Pass2.dta

Caliper Calibration All 000

Base Calibration on 27-APR-2010 11:18
Field Calibration on 27-MAY-2010,10:02

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	18002	5.96
2	24494	7.98
3	30848	9.94
4	37696	11.90
5	0	0.00
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
5.73	6.17

Photo Density Calibration All 000

Base Calibration on 10-MAY-2010 12:23
Field Check on 27-MAY-2010,10:02

Density Calibration

Base Calibration	Measured Near	Measured Far	Calibrated (sdu) Near	Calibrated (sdu) Far
Reference 1	45910	16713	53331	19387
Reference 2	21707	2616	25398	2565

Field Check at Base

1234.1	1480.4

Field Check

1224.6	1409.7

PE Calibration

Base Calibration	WS	Measured WH	Ratio	Calibrated Ratio
Background	225	1097		
Reference 1	15699	45726	0.347	0.317
Reference 2	6126	21562	0.288	0.275
Field Check at Base	224.6	1097.4		
Field Check	223.8	1087.5		

Density Constants All 000

Last Edited on 22-MAY-2010,02:59

Density Source Id	216	
Nylon Calibrator Number	DNC-D-516	
Aluminium Calibrator Number	DAC-D-516	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.23	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	0.05	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	0.00

General Constants All 000

Last Edited on 07-JUL-2011,02:36

General Parameters		
Mud Resistivity	1.200	ohm-metres
Mud Resistivity Temperature	75.000	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	5.500	inches
Caliper for Differential Caliper	Density Caliper	
Rwa Parameters		
Porosity used	Sandstone Density Por.	
Resistivity used	Array Ind. One Res Rt	
RWA Constant A	0.620	
RWA Constant M	2.150	

Gamma Calibration MCG-D.A 257

Field Calibration on 06-JUL-2011,19:59

	Measured	Calibrated (API)
Background	38	25
Calibrator (Gross)	1297	846
Calibrator (Net)	1259	821

Gamma Constants MCG-D.A 257

Last Edited on 06-JUL-2011,19:59

Gamma Calibrator Number	GRC-C-61	
Mud Density	1.20	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	

Concentration of KCl	0.00	kppm

High Resolution Temperature Constants MCG-D.A 257

Last Edited on

Pre-filter Length	11

Neutron Calibration MDN-A.B 73

Base Calibration on 29-JUN-2011 12:41
Field Check on 06-JUL-2011,20:50

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3216	103	3714	110
Ratio	31.365		33.764	

Field Calibrator at Base

	Calibrated (cps)	
	1417	2031
Ratio	0.698	

Field Check

	Calibrated (cps)	
	1400	2036
Ratio	0.688	

Neutron Constants MDN-A.B 73

Last Edited on 07-JUL-2011,02:09

Neutron Source Id	P44389B	
Neutron Jig Number	6071NE	
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-A.A 82

Base Calibration on 10-MAY-2011,11:49
Field Check on 06-JUL-2011,20:50

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	965.7	126.8
Base Check		280.8
Field Check		280.8

FE Constants MFE-A.A 82

Last Edited on 07-JUL-2011,02:09

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	0.0	inches

Induction Calibration MAI-B.A 218

Base Calibration on 05-NOV-2010,08:51
Field Check on 24-JUN-2011,08:28

Base Calibration

Test Loop Calibration

	Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	High
1	17.6	488.3	9.3	966.2
2	6.5	392.4	7.6	821.4
3	3.8	270.5	5.2	566.0
4	2.0	134.8	2.6	279.2

Array Temperature 74.8 Deg F

Array Temperature	74.8	Deg F	

Channel	Base Check (mmho/m) Low	Base Check (mmho/m) High	Field Check (mmho/m) Low	Field Check (mmho/m) High	
1	0.0	0.0	8.9	3720.1	
2	0.0	0.0	26.5	3439.0	
3	0.0	0.0	25.0	2927.9	
4	0.0	0.0	17.9	2054.0	
Deep	0.0	0.0	15.2	1924.7	
Medium	0.0	0.0	36.5	3815.6	
Shallow	0.0	0.0	39.7	5074.3	
Array Temperature		0.0		60.9	Deg F

Induction Constants MAI-B.A 218

Last Edited on 07-JUL-2011,02:08

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	6.0000	
Stand-off Fin Angle	60.00	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 Constants MAI-B.A 218

Last Edited on

Pre-filter Length	11

Caliper Calibration MPD-B 168

Base Calibration on 29-JUN-2011 14:24
Field Calibration on 06-JUL-2011,20:07

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	18887	3.99
2	28832	5.97
3	38960	7.96
4	48768	9.86
5	59440	11.92
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.95	7.96

Photo Density Calibration MPD-B 168

Base Calibration on 29-JUN-2011 14:00
Field Check on 06-JUL-2011,20:04

Density Calibration

Base Calibration	Measured Near	Measured Far	Calibrated (sdu) Near	Calibrated (sdu) Far
Reference 1	49175	16656	53331	19389
Reference 2	23074	2008	25398	2565
Field Check at Base	839.9	768.5		
Field Check	845.6	764.8		

PE Calibration

Base Calibration	WS	Measured WH	Measured Ratio	Calibrated Ratio
Background	152	746		
Reference 1	17066	49032	0.350	0.317
Reference 2	6549	22964	0.288	0.275
Field Check at Base	152.1	746.0		
Field Check	150.8	743.1		

Density Constants MPD-B 168

Last Edited on 06-JUL-2011,20:00

Density Source Id	P44268B	
Nylon Calibrator Number	DNC-D-516	
Aluminium Calibrator Number	DAC-D-516	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.20	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)
2.65	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:\DATA\Guichard_Smith Production\NR Broussard Landing #1\Main Pass2.dta

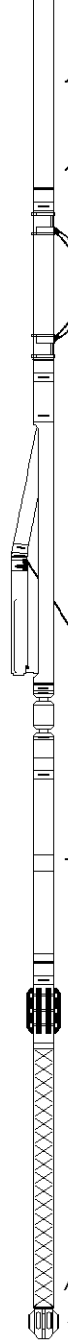
MCC-A 11C Tension Cablehead
MCC-A 1 LG: 2.40 ft WT: 19.8 lb OD: 2.24 in

11C-11B MTA-A Compact Tool Adaptor
MTA-A 1 LG: 1.53 ft WT: 13.2 lb OD: 2.24 in

SHA-H Compact Swivel Head Adaptor
SHA-H 145 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

Compact Comms Gamma

37.07 ft GRGC - Gamma Ray



MCG-D.A 257 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

34.16 ft CGXT - MCG External Temperature

Compact Neutron
MDN-A.B 73 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

30.61 ft NPRS - Sandstone Neutron Por.

Compact Density/Caliper
MPD-B 168 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

23.37 ft AVOL - Annular Volume
23.37 ft HVOL - Hole Volume
23.37 ft DFCL - Differential Caliper
21.44 ft DCOR - Density Correction

SKJ-D.A Compact Knuckle Joint
SKJ-D.A 172 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

21.44 ft DPRS - Sandstone Density Por.
21.38 ft PDPE - PE

Compact Focussed Electric
MFE-A.A 82 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

13.72 ft FEFE - Shallow FE

Compact Induction
MAI-B.A 218 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

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.

Total Length: 48.58 ft Weight: 381.4 lb

COMPANY	SMITH PRODUCTION
WELL	N R BROUSSARD LANDING INC #1
FIELD	ABBEVILLE
PROVINCE/COUNTY	VERMILLION
COUNTRY/STATE	U.S.A. / LOUISIANA

Elevation Kelly Bushing	27.00	feet	First Reading		feet
Elevation Drill Floor	26.00	feet	Depth Driller	8416.00	feet
Elevation Ground Level	10.00	feet	Depth Logger	8412.00	feet

Weatherford®

ARRAY INDUCTION / RSFE
PHOTO-DENSITY / NEUTRON
GAMMA RAY LOG / TVD

40 Years of Wireline 1970 2010