COMPACT TRIPLE COMBO QUICKLOOK LOG

Weatherford®

COMPANY	BILL BARRETT CORPORATION
WELL	GGU MILLER 14C-31-691
FIELD	GIBSON GULCH
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO
LOCATION	SHL: 1579' FSL & 1359' FWL
	BHL: 815' FSL & 665' FWL

40 Years of Wireline 1979 2019

SEC	TWP	RGE	Other Services
31	6S	91W	

API Number 05-045-19508
Permit Number

Permanent Datum G.L., Elevation 6029 feet
Log Measured From K.B. @ 16 FEET above Permanent Datum
Drilling Measured From K.B.

Elevations:	feet
KB	6045.00
DF	6044.00
GL	6029.00

Date	14-APR-2011			
Run Number	ONE			
Depth Driller	7120.00	feet		
Depth Logger	7118.00	feet		
First Reading	7118.00			
Last Reading	743.00			
Casing Driller	735.00	feet		
Casing Logger	743.00	feet		
Bit Size	7.875	inches		
Hole Fluid Type	LSND			
Density / Viscosity	11.45 lb/USg	49.00 CP		
PH / Fluid Loss	10.10	10.80 ml/30Min		
Sample Source	FLOW LINE			
Rm @ Measured Temp	1.64 @ 57.7	ohm-m		
Rmf @ Measured Temp	1.31 @ 57.7	ohm-m		
Rmc @ Measured Temp	1.97 @ 57.7	ohm-m		
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	0.61 @162.0	ohm-m		
Time Since Circulation	8 HOURS			
Max Recorded Temp	164.00	deg F		
Equipment Name	COMPACT			
Equipment / Base	13037	RK SPR		
Recorded By	W. HANKS			
Witnessed By	R. WIRTH			

BOREHOLE RECORD

Last Edited: 14-APR-2011 16:30

Bit Size inches	Depth From feet	Depth To feet
8.750	764.00	5494.00
7.875	5494.00	7575.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	9.625	0.00	764.00	36.00

REMARKS

SOFTWARE VERSION: WLS 11.02.3186

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

HARDWARE: MPD: (1) 8 INCH PROFILE PLATE
MAI: (2) 1 INCH STANDOFF
MFE: (1) 1 INCH STANDOFF
MDN: (1) DUAL BOWSPRING

2.68 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.

ALL INTERVALS LOGGED AND SCALED PER CUSTOMER'S REQUEST.

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

TOTAL HOLE VOLUME FROM TD TO SURFACE CASING = 2963 CU.FT.

ANNULAR VOLUME WITH 4.5 INCH PRODUCTION CASING = 2259 CU.FT.

ENGINEER(S): W. HANKS

OPERATOR(S): D. SMITH

SERVICE ORDER: #3526694

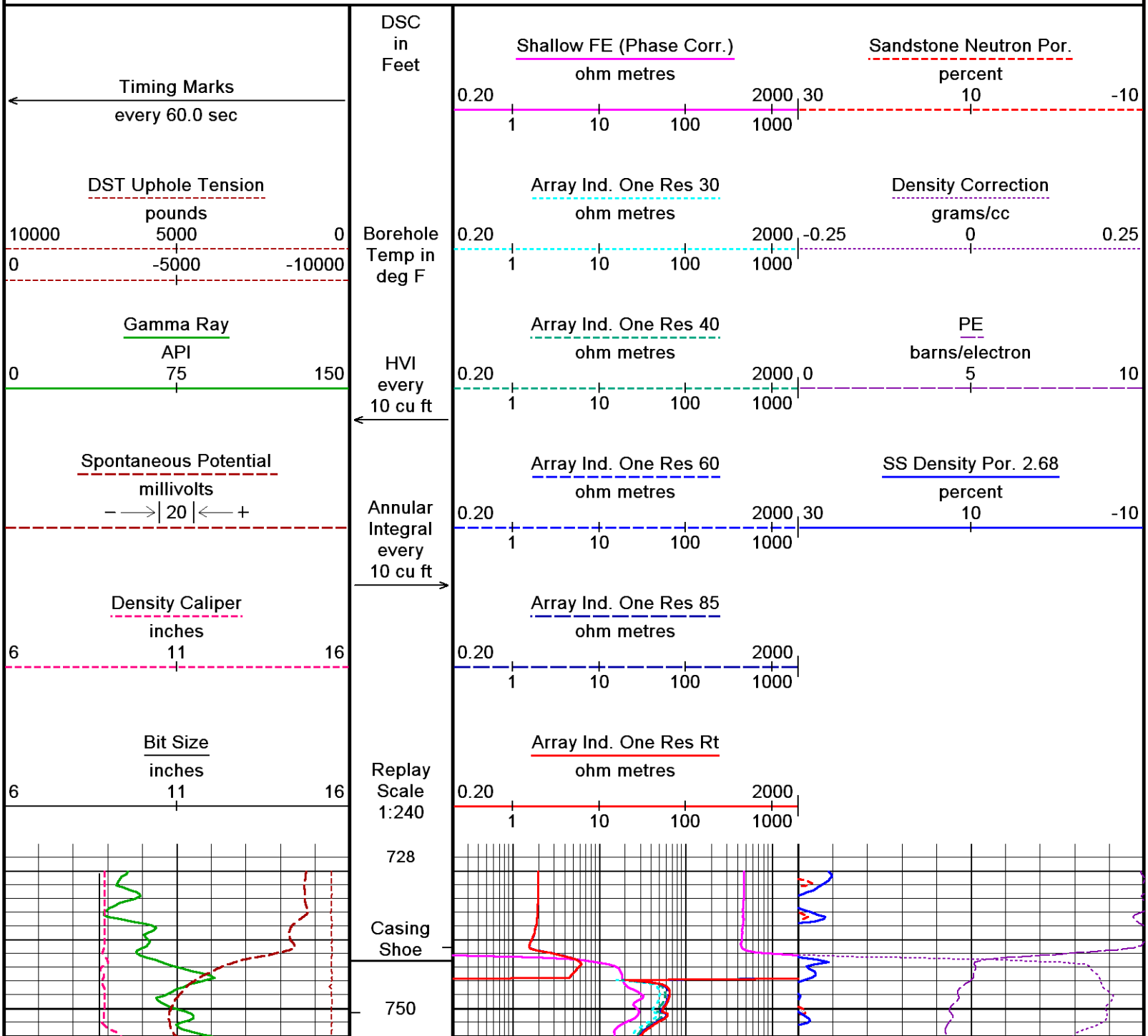
RIG: PATTERSON #51

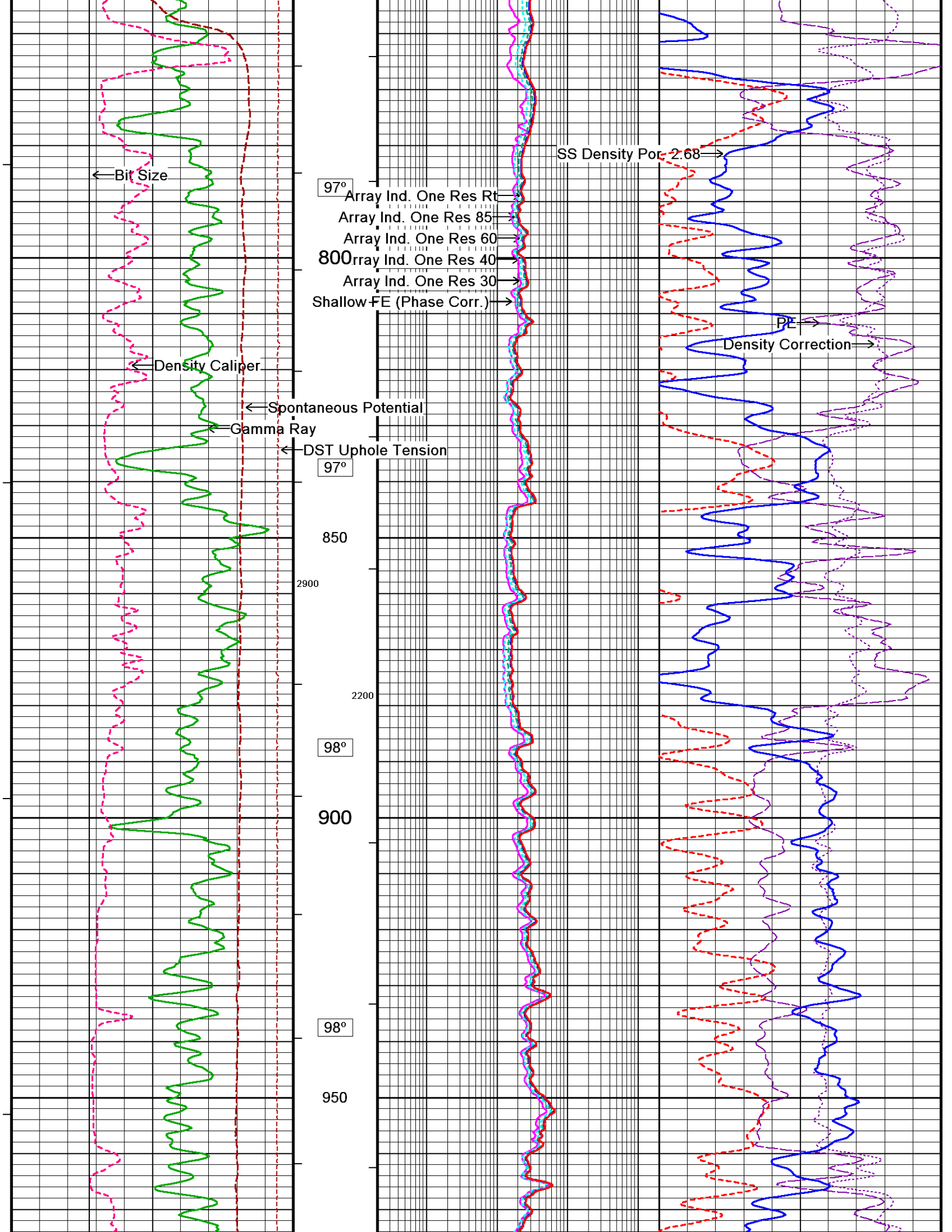
5 INCH MAIN LOG

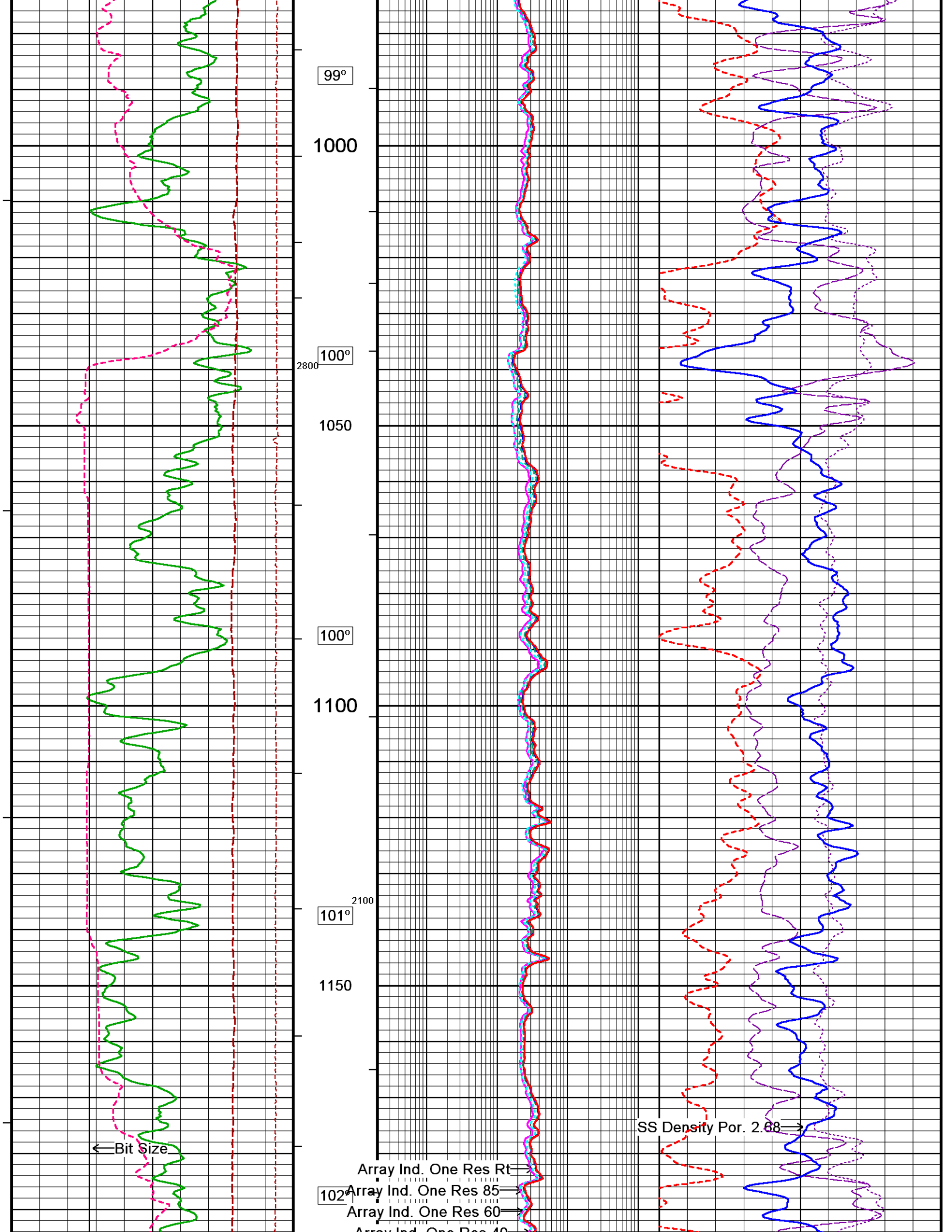
Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 15-APR-2011 13:14

Filename: C:\DOCUME~1\rodgerbx\LOCALS~1\Temp\W...\Bill Barrett GGU Miller 14C-31-691_003.dta — Recorded on 14-APR-2011 19:14

System Versions: Logged with 11.02.3186 Plotted with 11.02.2164




Bit Size
97°
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
800
rray Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
97°
850
2900
2200
98°
900
98°
950


99°
1000
100°
2800
1050
100°
1100
101°
2100
1150
102°
←Bit Size
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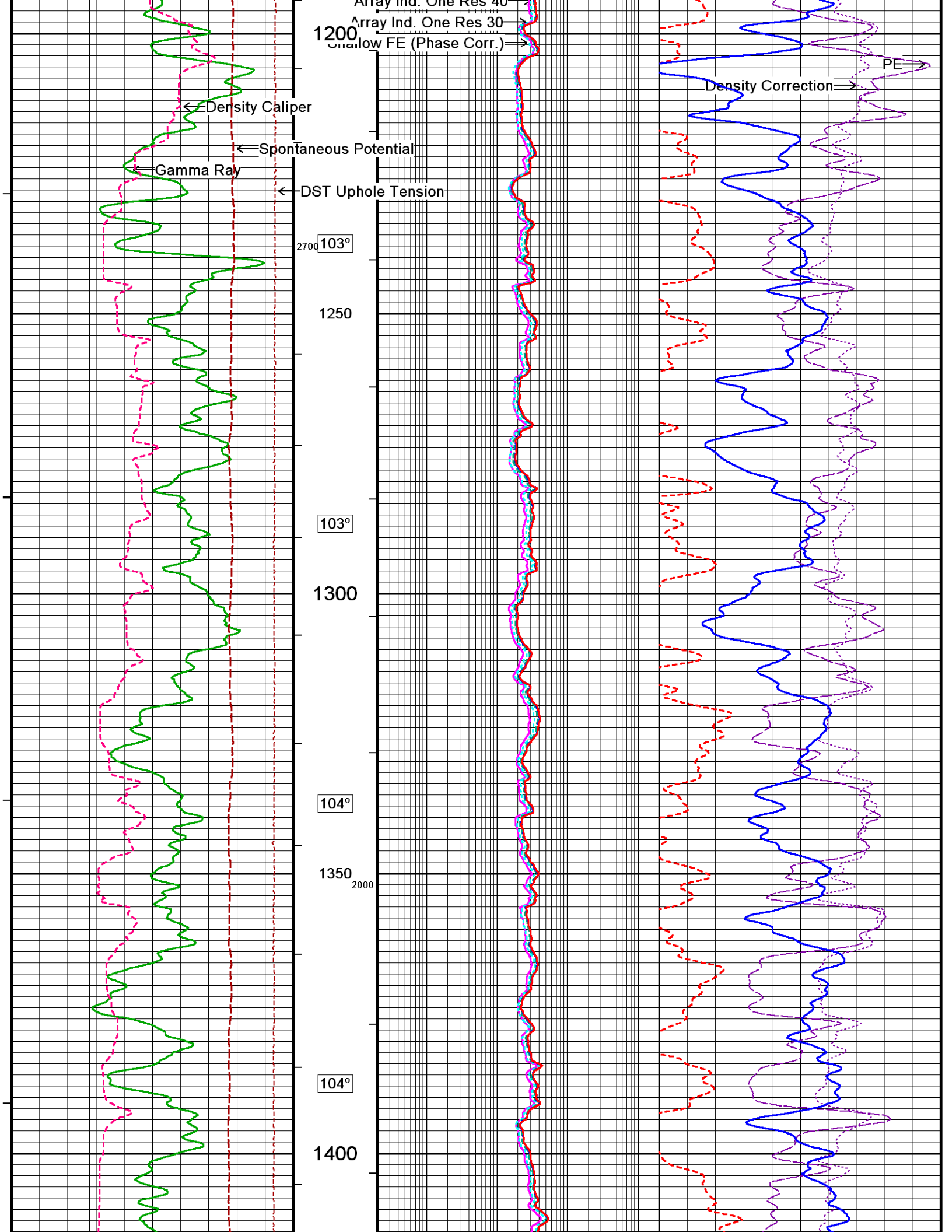
Array Ind. One Res 85→
Array Ind. One Res 60→
SS Density Por. 2.68→


Array Ind. One Res 40
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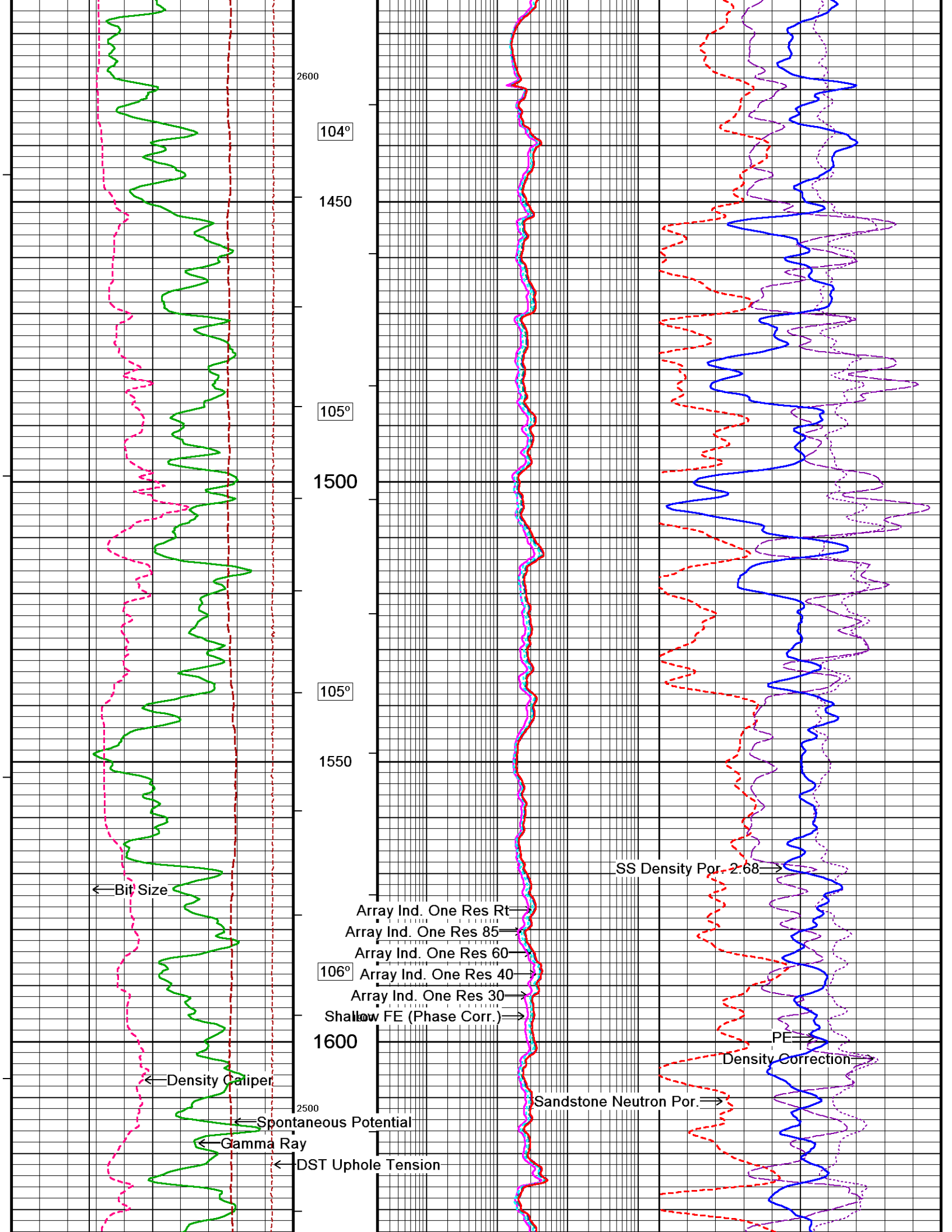
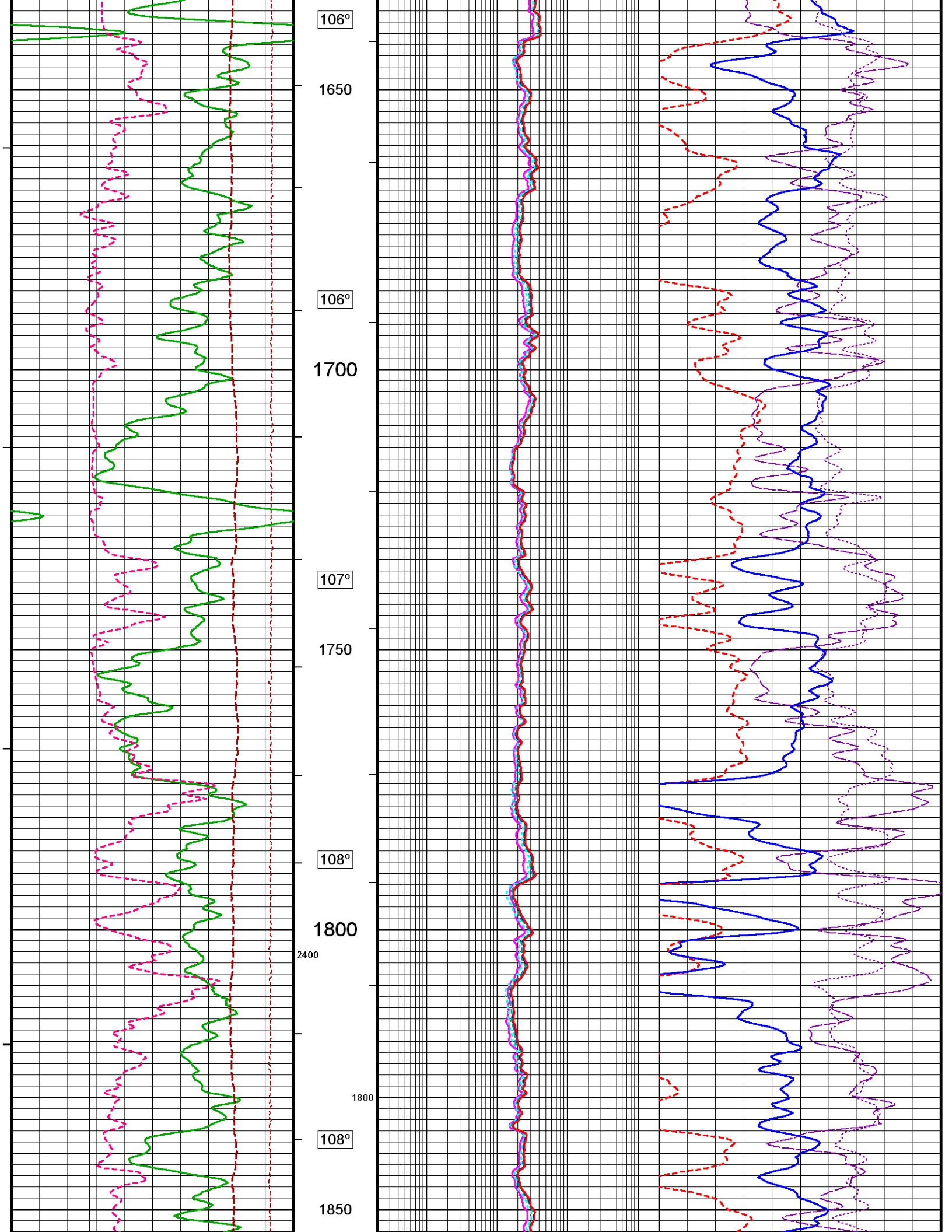
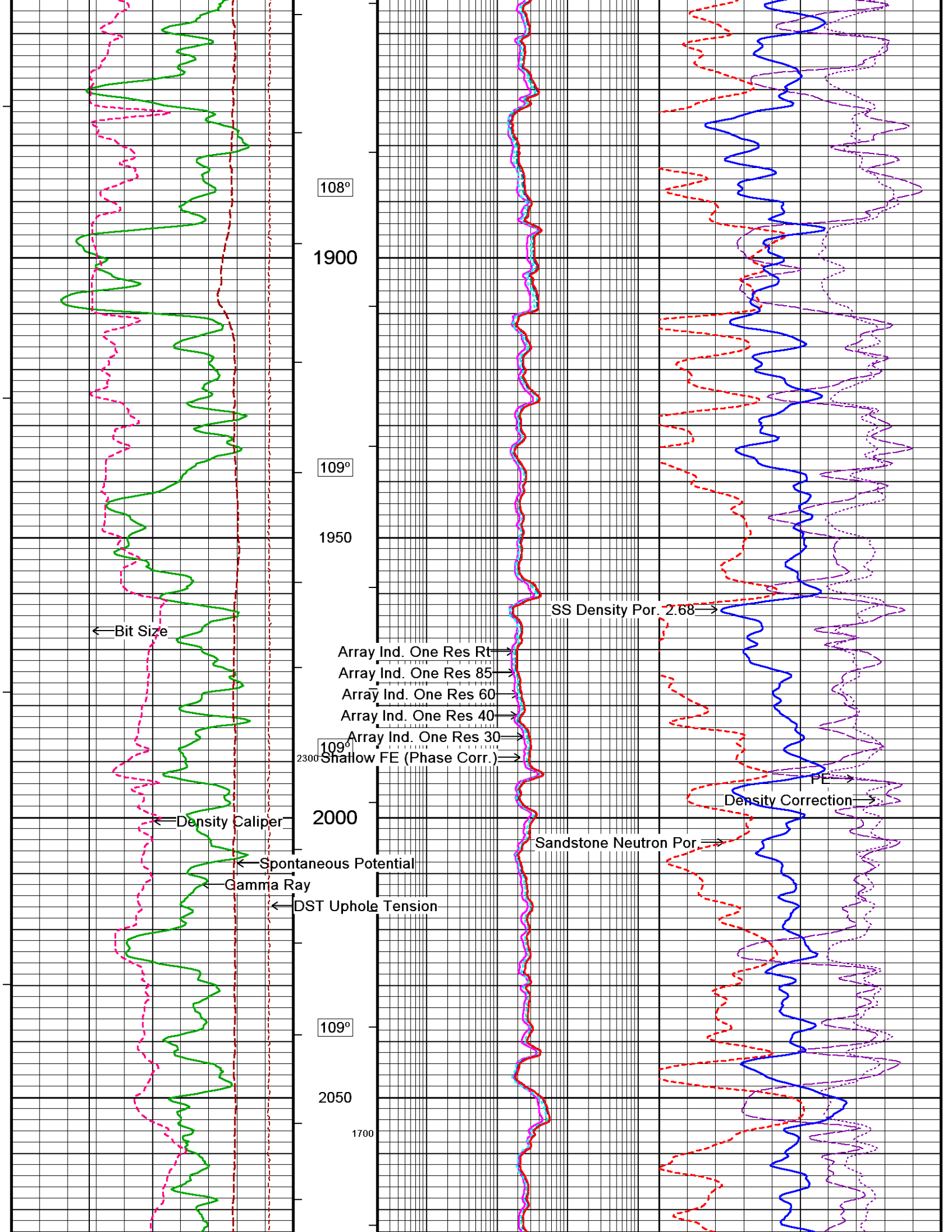
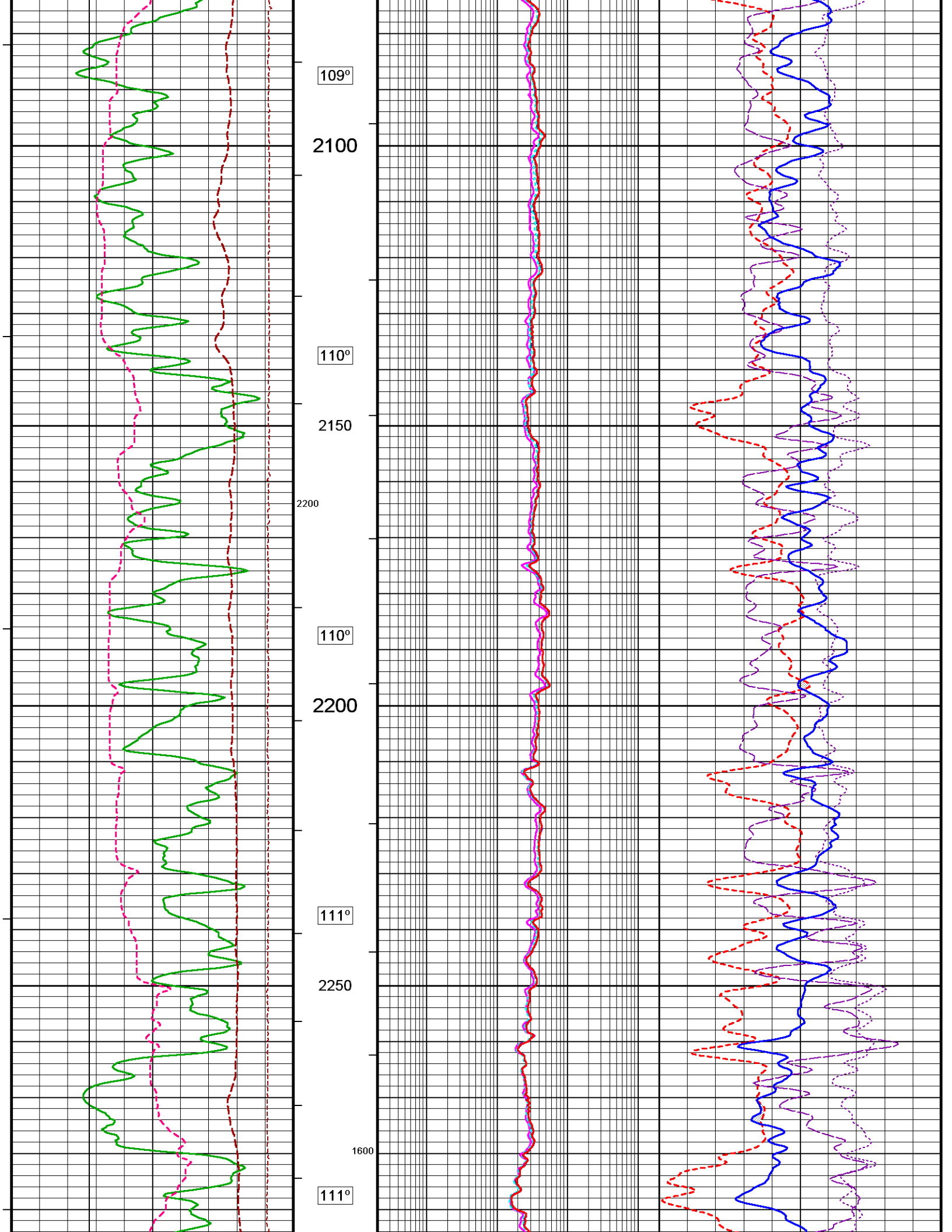
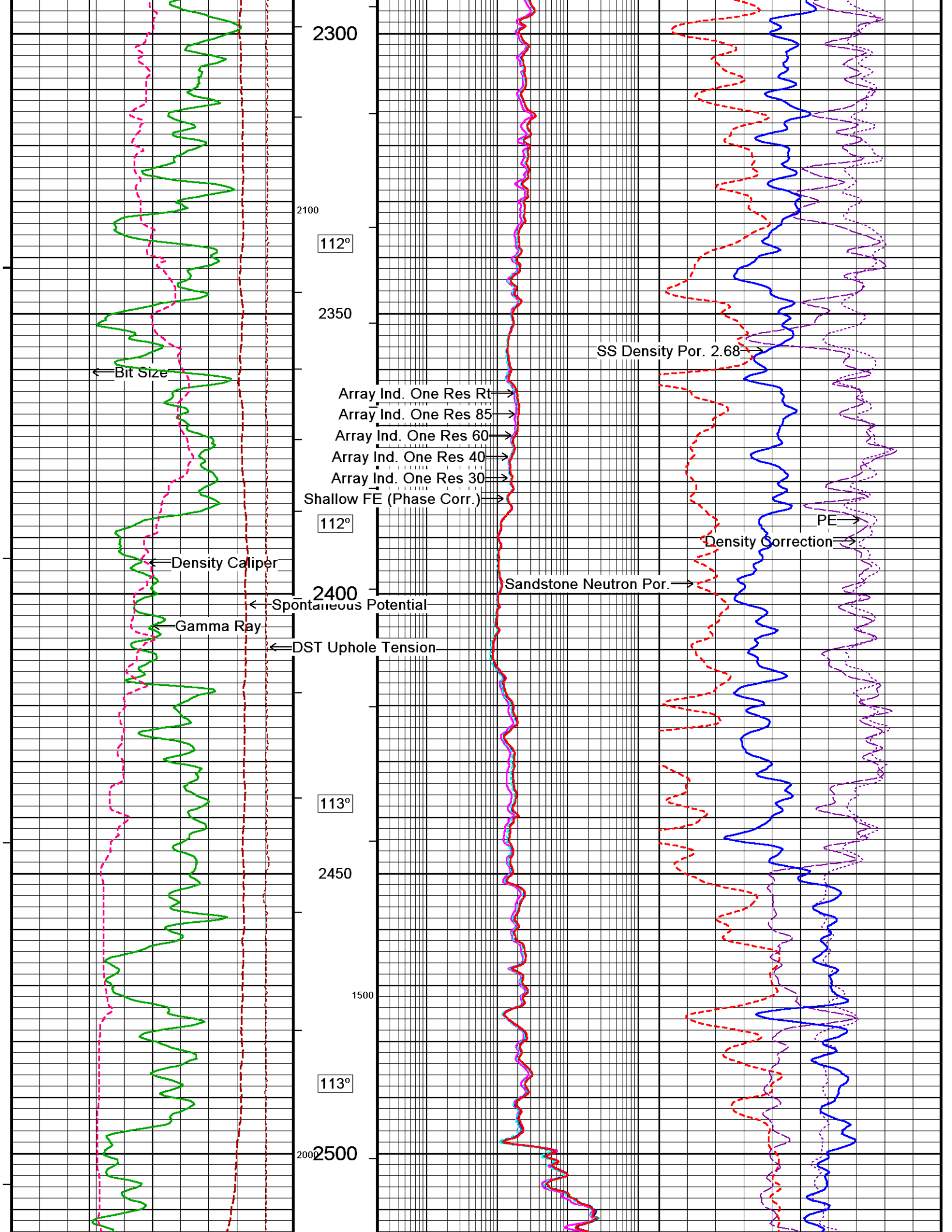
PE
Density Correction
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
1200
2700
103°
1250
103°
1300
104°
1350
2000
104°
1400


2600
104°
1450
105°
1500
105°
1550
106°
1600
2500
←Bit Size
←Density Caliper
←Spontaneous Potential
←Gamma Ray
←DST Uphole Tension
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→
Shallow FE (Phase Corr.)→
SS Density Por. 2.68→
PE→
Density Correction→
Sandstone Neutron Por.→


106°
1650
106°
1700
107°
1750
108°
1800
2400
1800
108°
1850


108°
1900
109°
1950
109°
2300
2000
109°
2050
1700
Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
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
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.


109°
2100
110°
2150
2200
110°
2200
111°
2250
1600
111°


2300
2100
112°
2350
SS Density Por. 2.68
Bit Size
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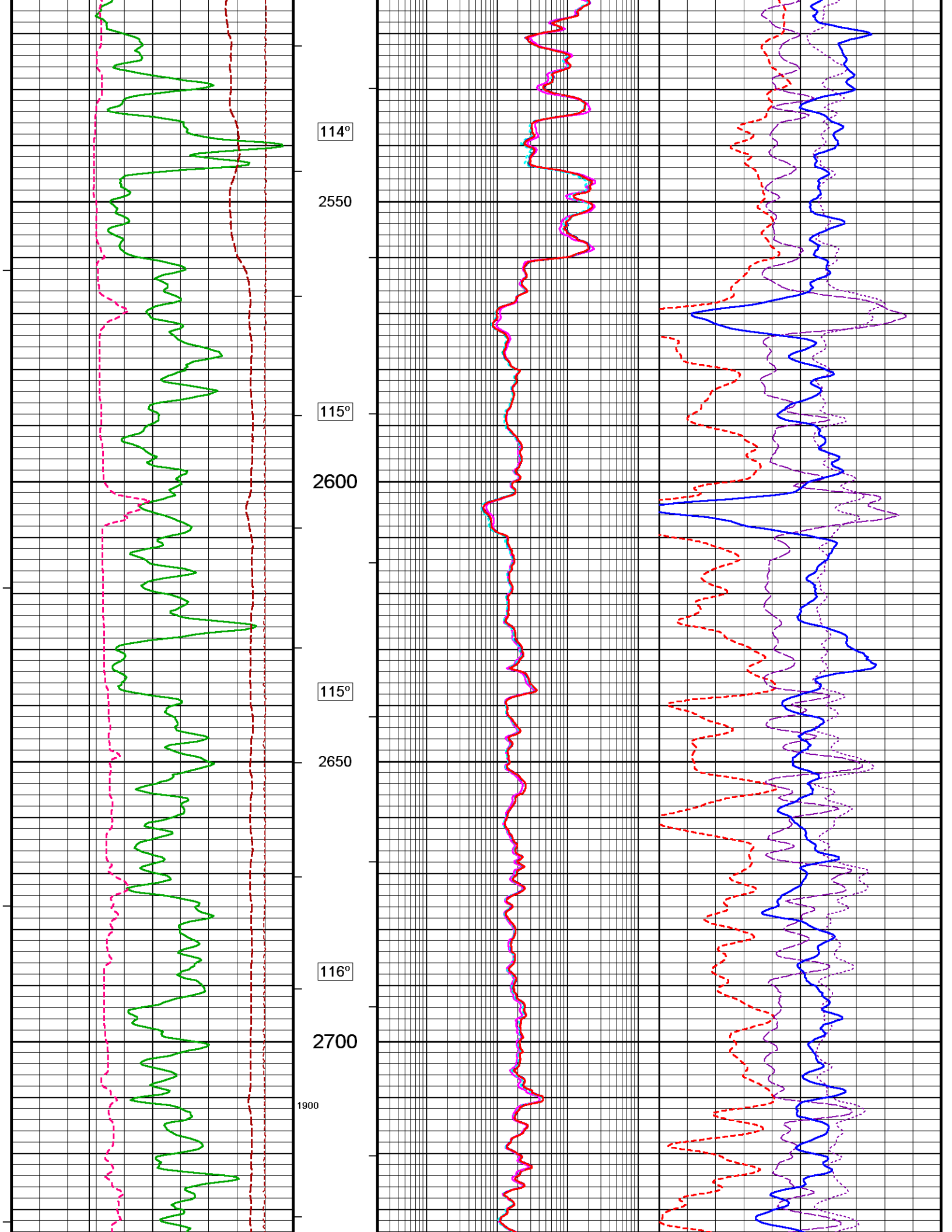
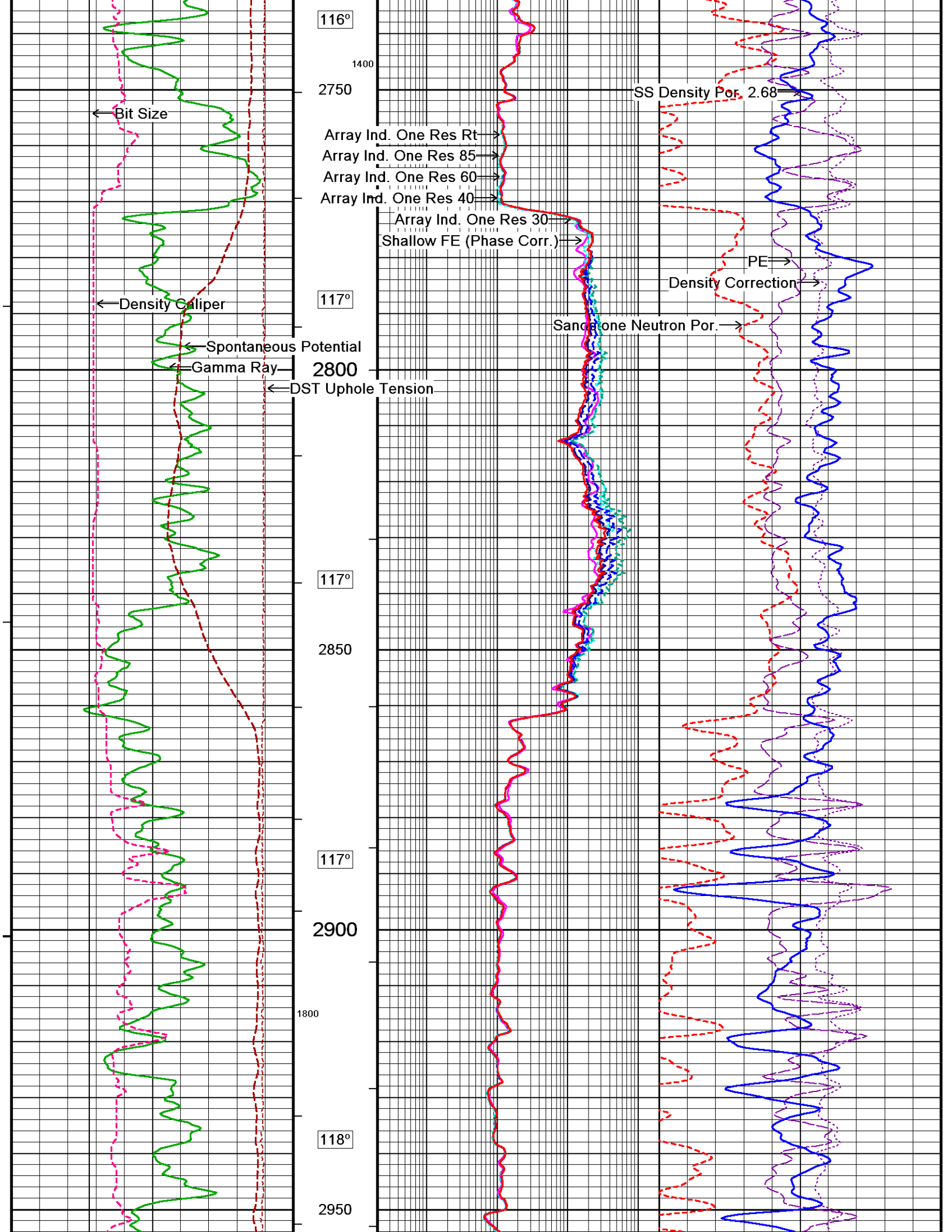
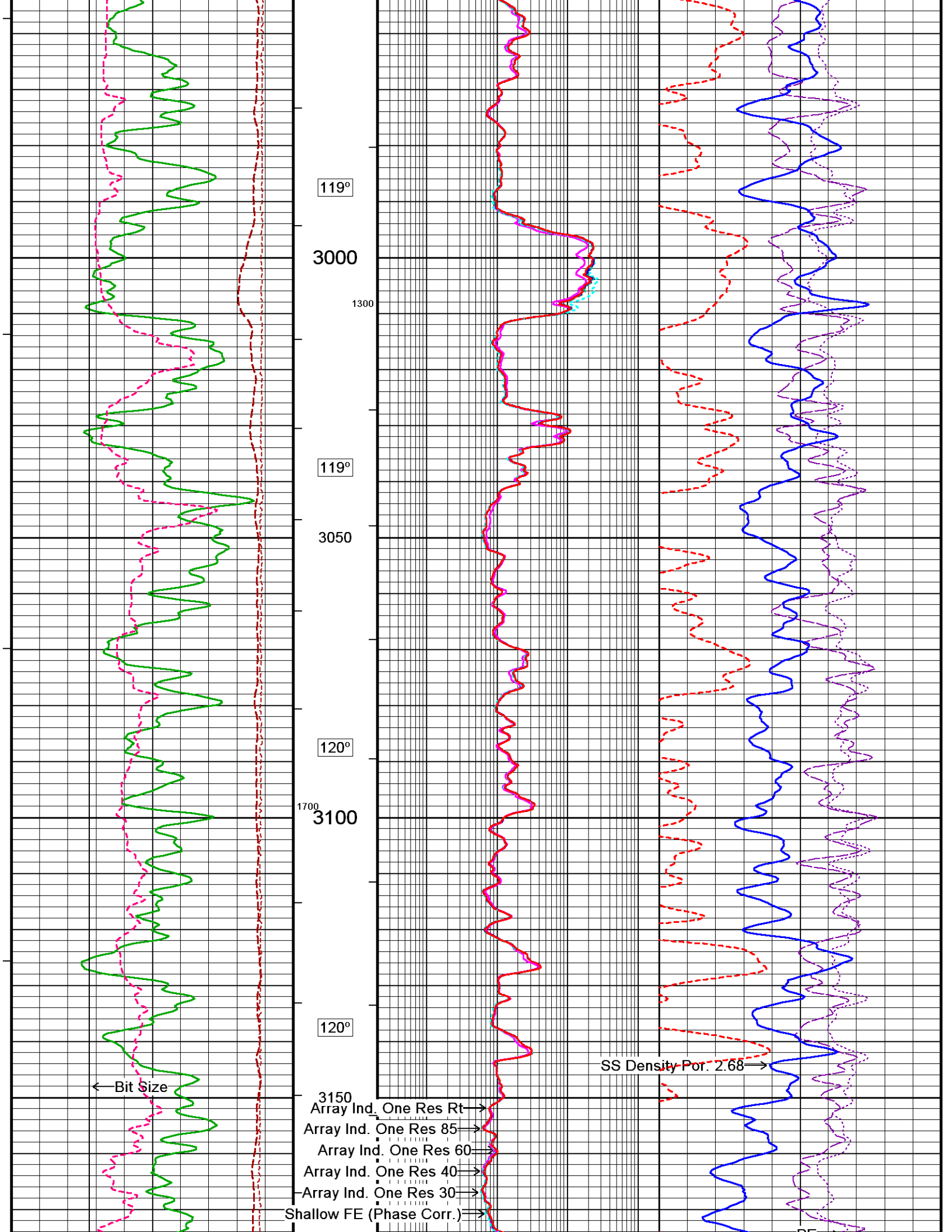
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
112°
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
2400
Spontaneous Potential
Gamma Ray
DST Uphole Tension
113°
2450
1500
113°
2000
2500


114°
2550
115°
2600
115°
2650
116°
2700
1900


116°
1400
2750
Bit Size
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
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.
117°
Density Caliper
Spontaneous Potential
Gamma Ray
2800
DST Uphole Tension
117°
2850
117°
2900
1800
118°
2950


119°
3000
1300
119°
3050
120°
1700
3100
120°
3150
Bit Size
SS Density Por. 2.68
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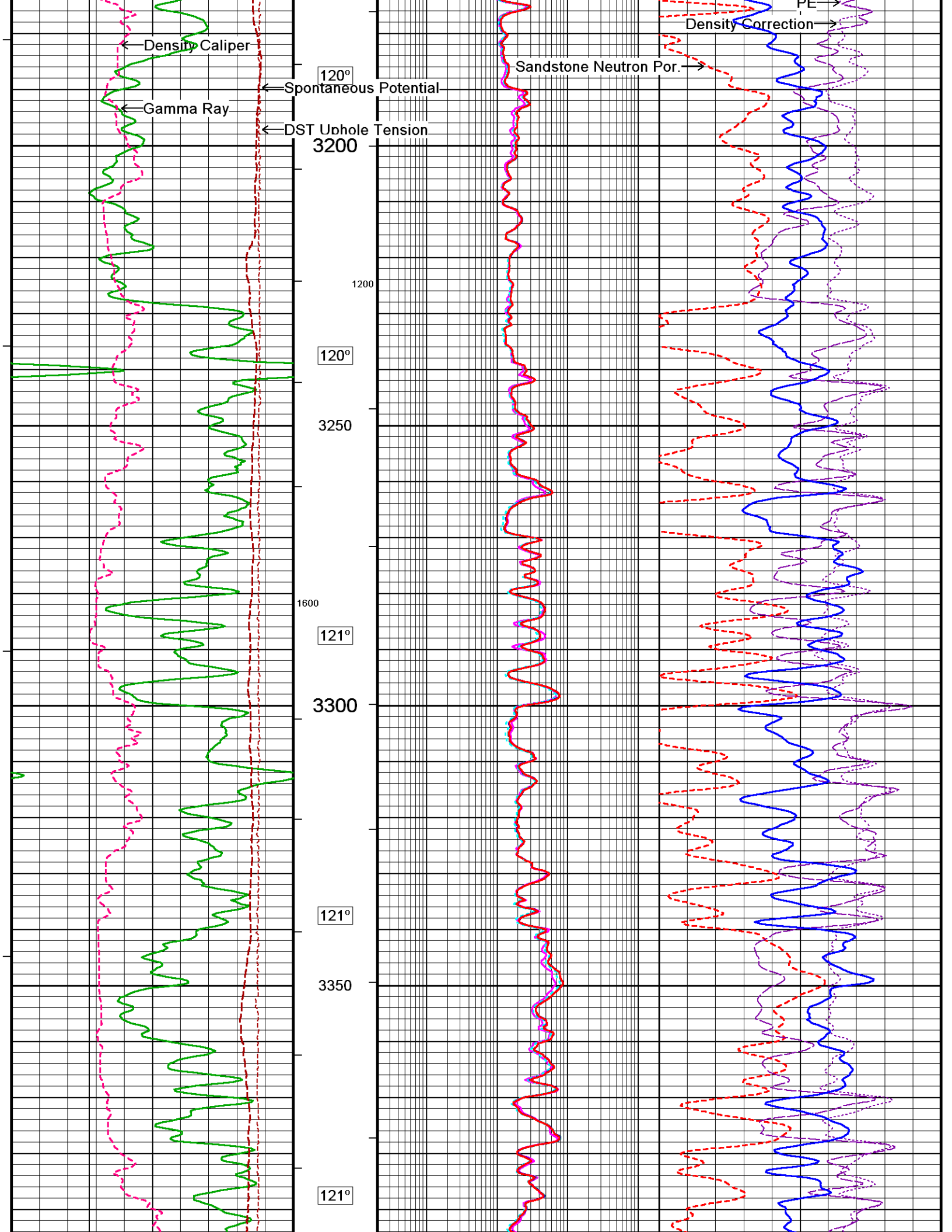
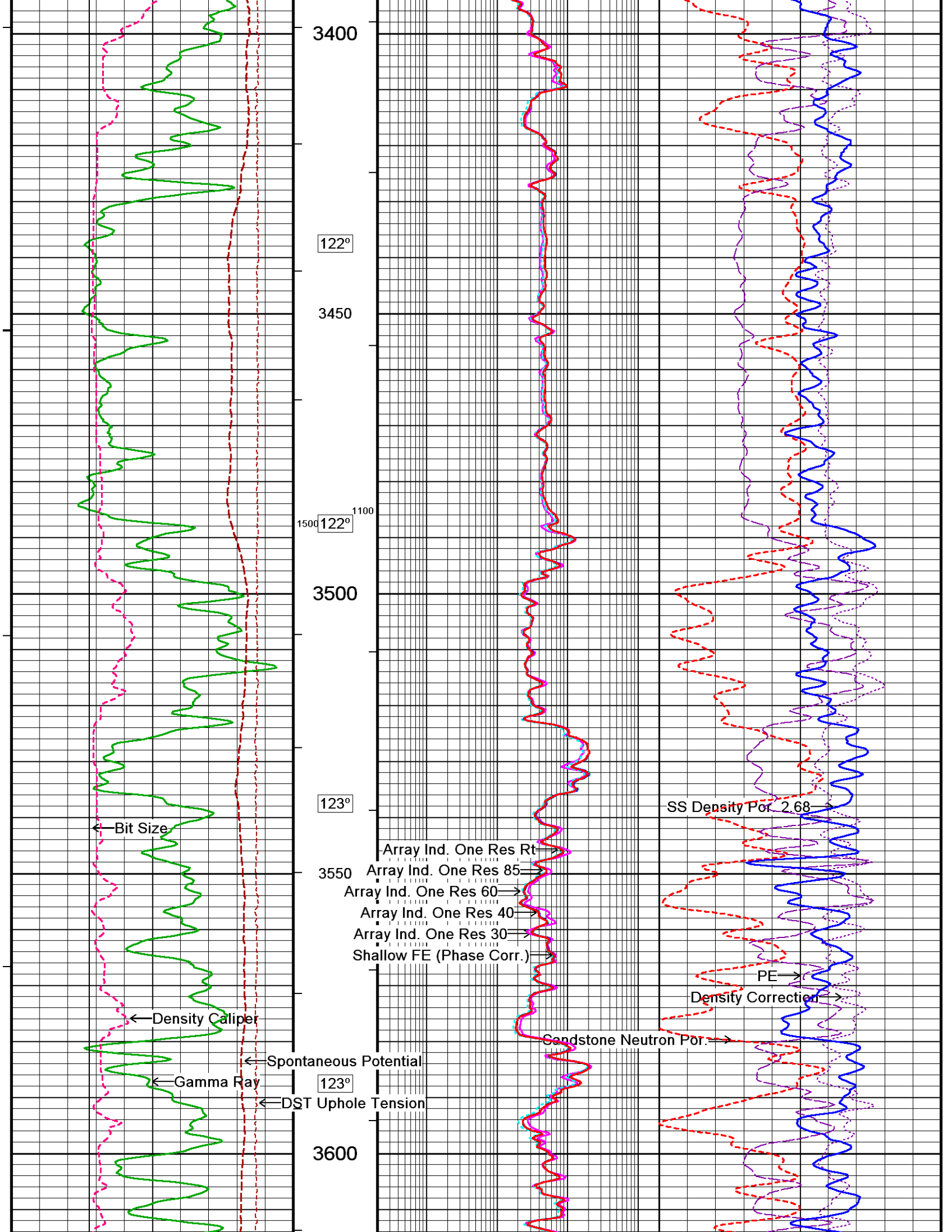
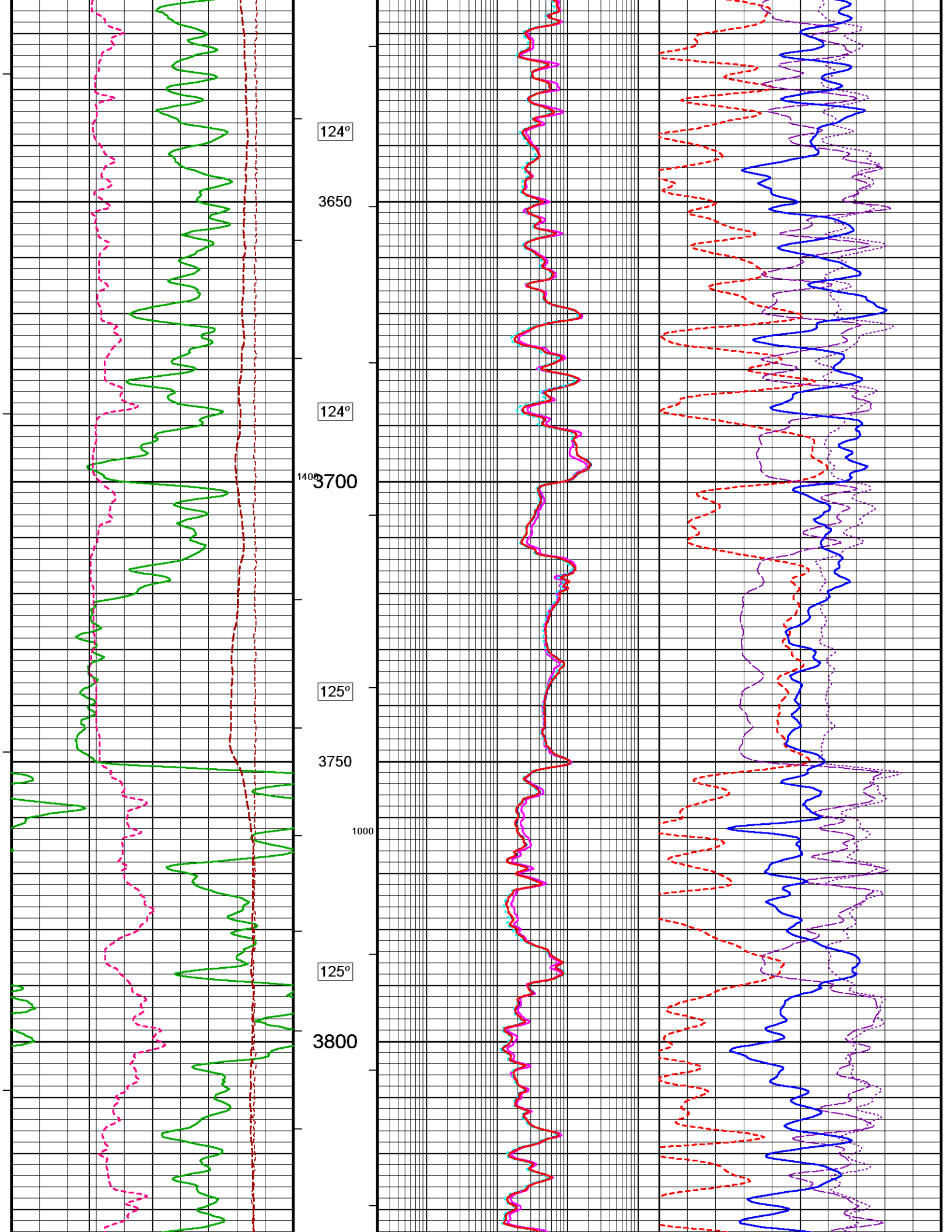
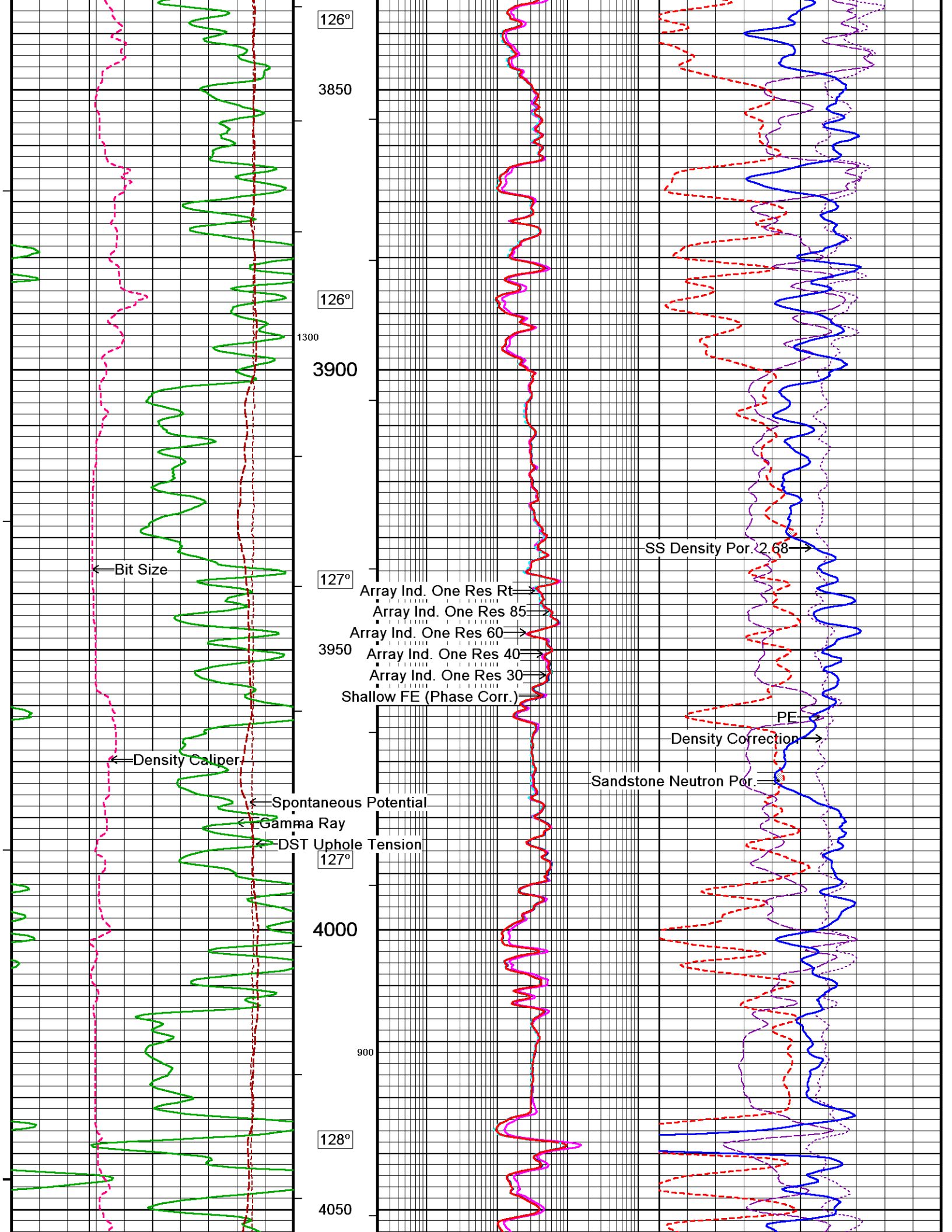
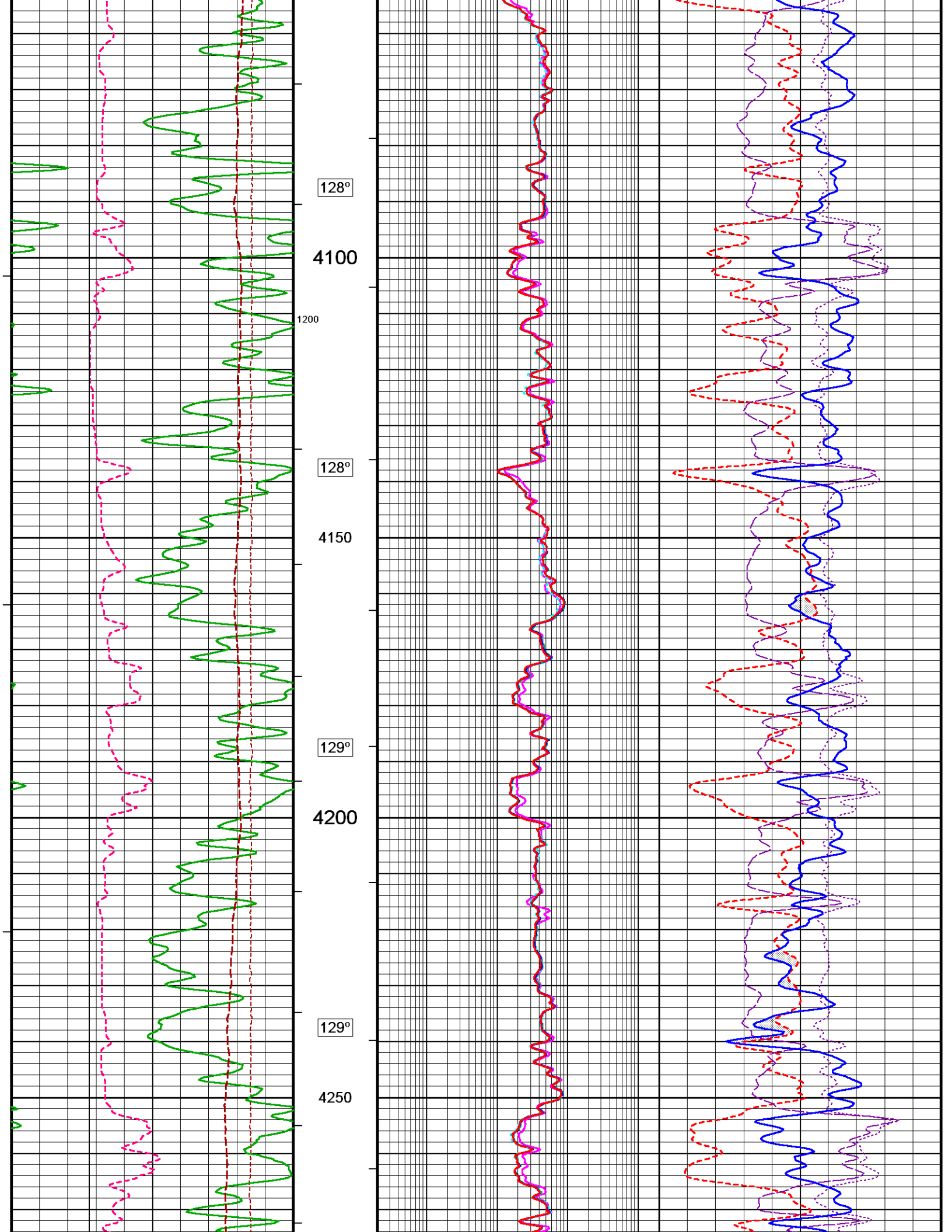
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)

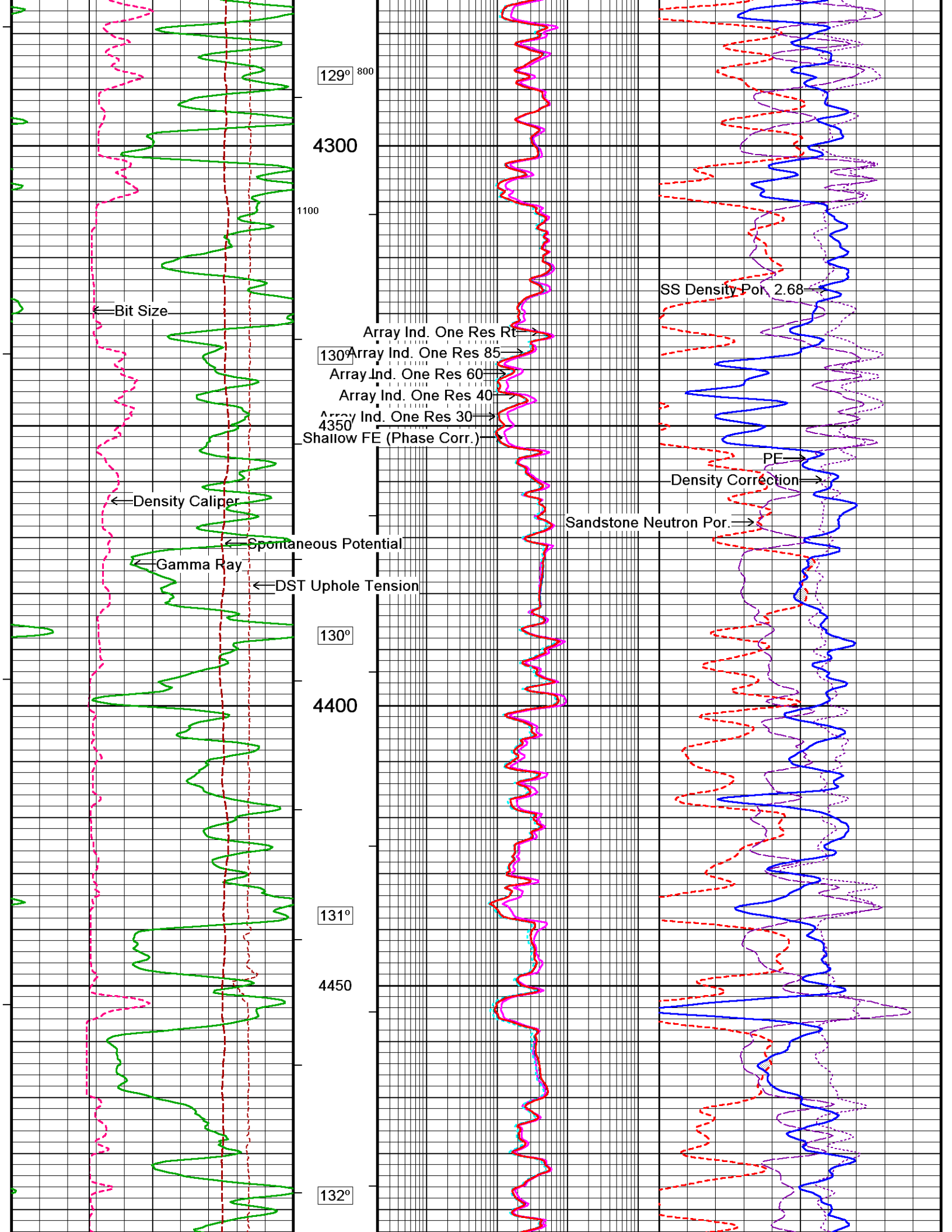

Density Caliper
Gamma Ray
120°
Spontaneous Potential
DST Uphole Tension
3200
1200
120°
3250
1600
121°
3300
121°
3350
121°
Sandstone Neutron Por.
PE
Density Correction

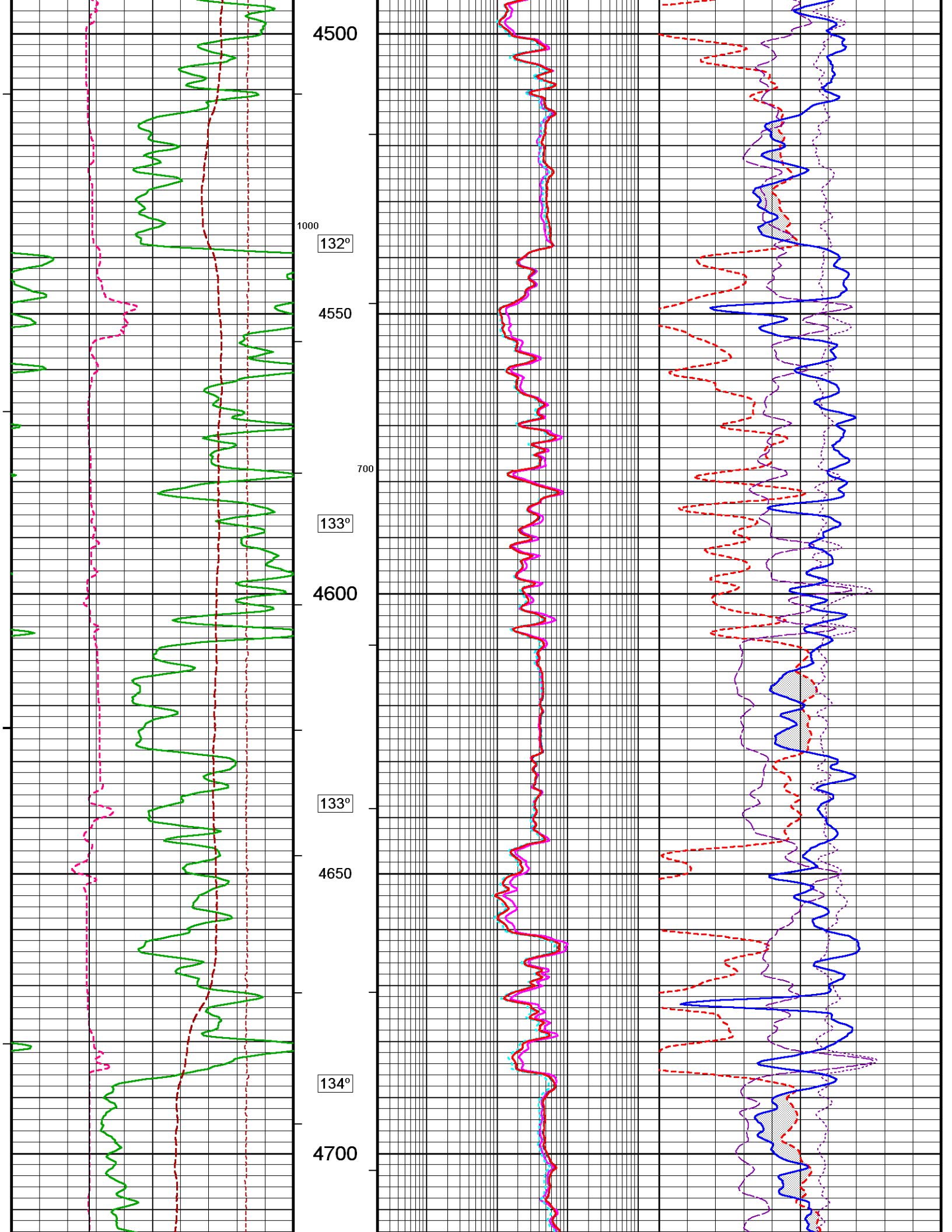

3400
122°
3450
1500
122°
1100
3500
123°
Bit Size
Array Ind. One Res Rt
3550
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
123°
DST Uphole Tension
3600

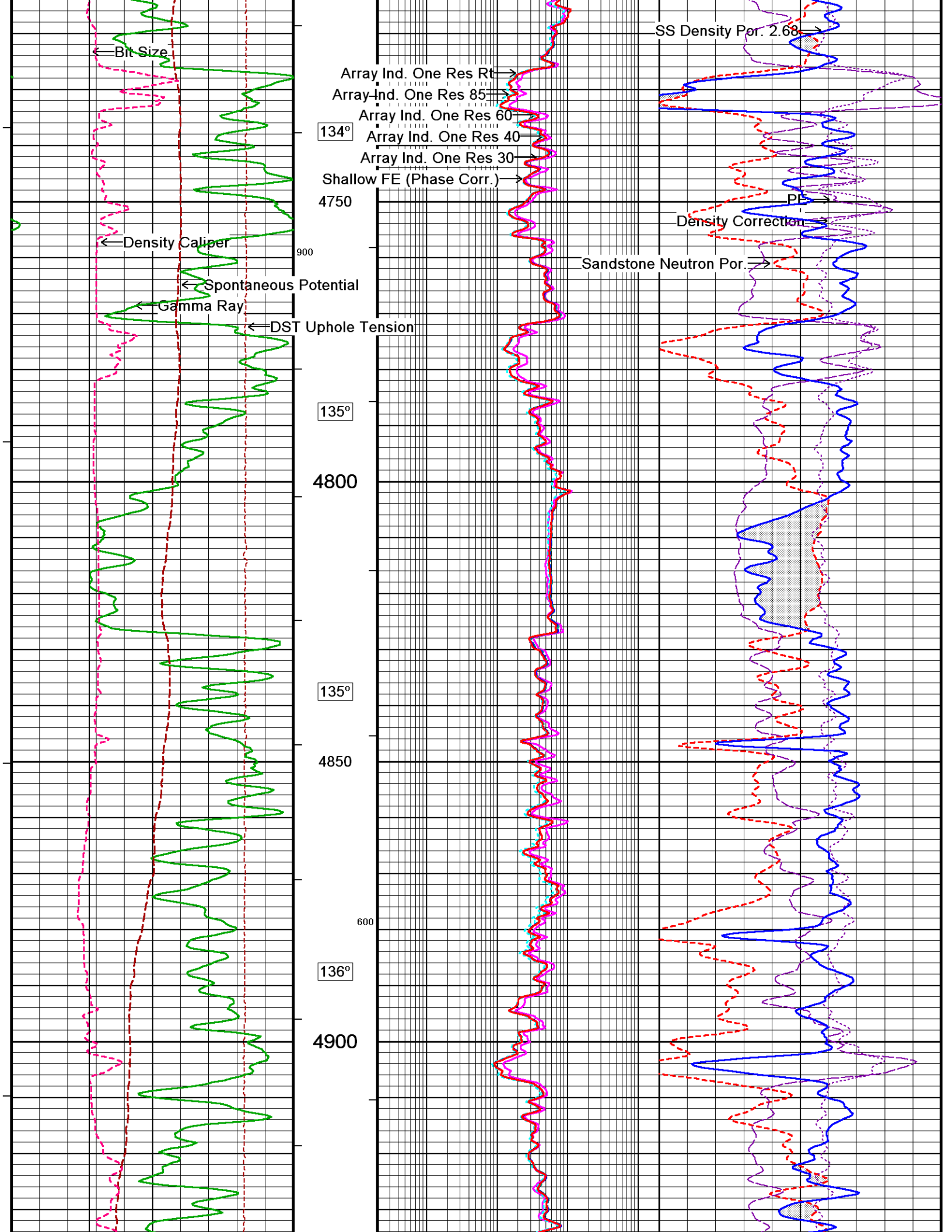

124°
3650
124°
1400
3700
125°
3750
1000
125°
3800

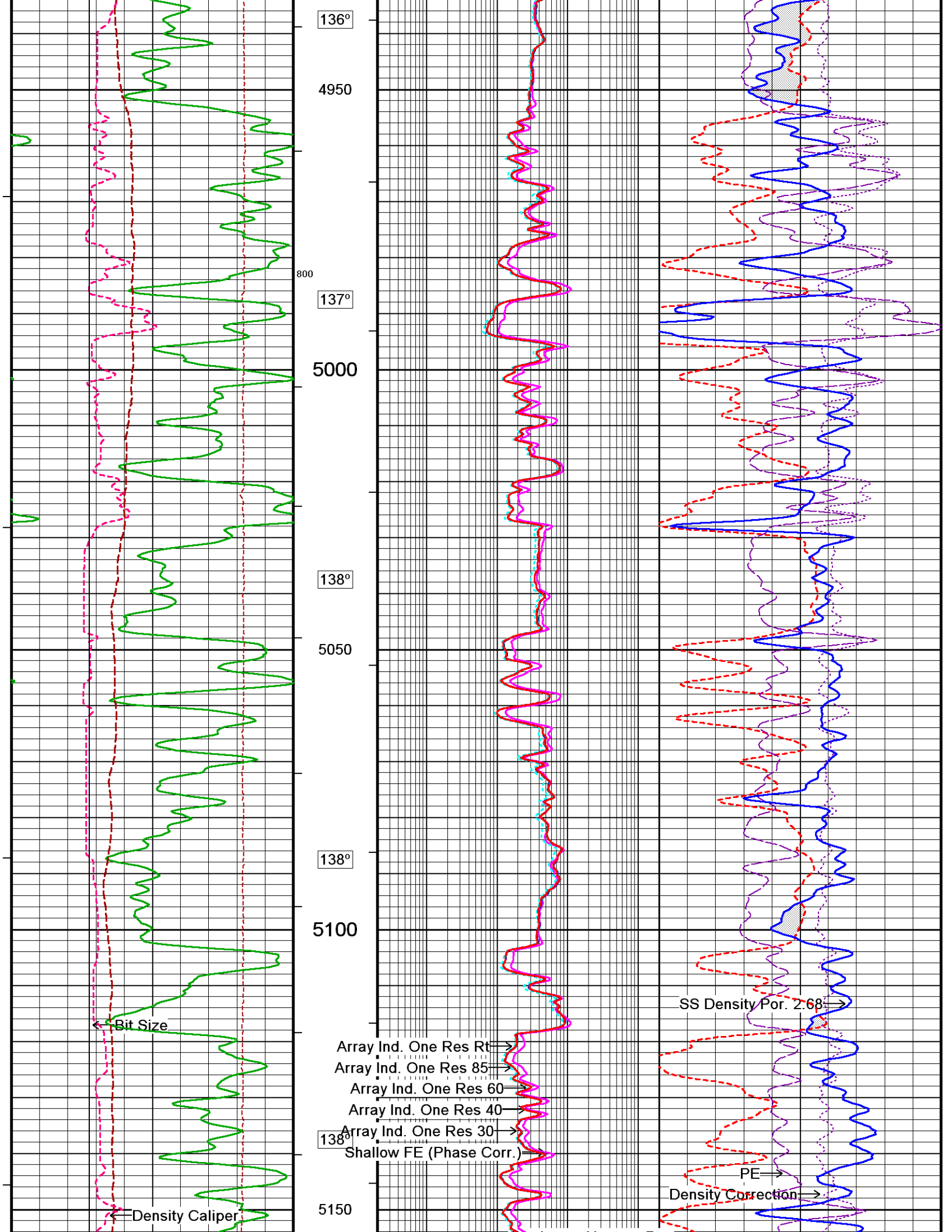

126°
3850
126°
1300
3900
Bit Size
127°
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
3950
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Density Caliper
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
127°
4000
900
128°
4050

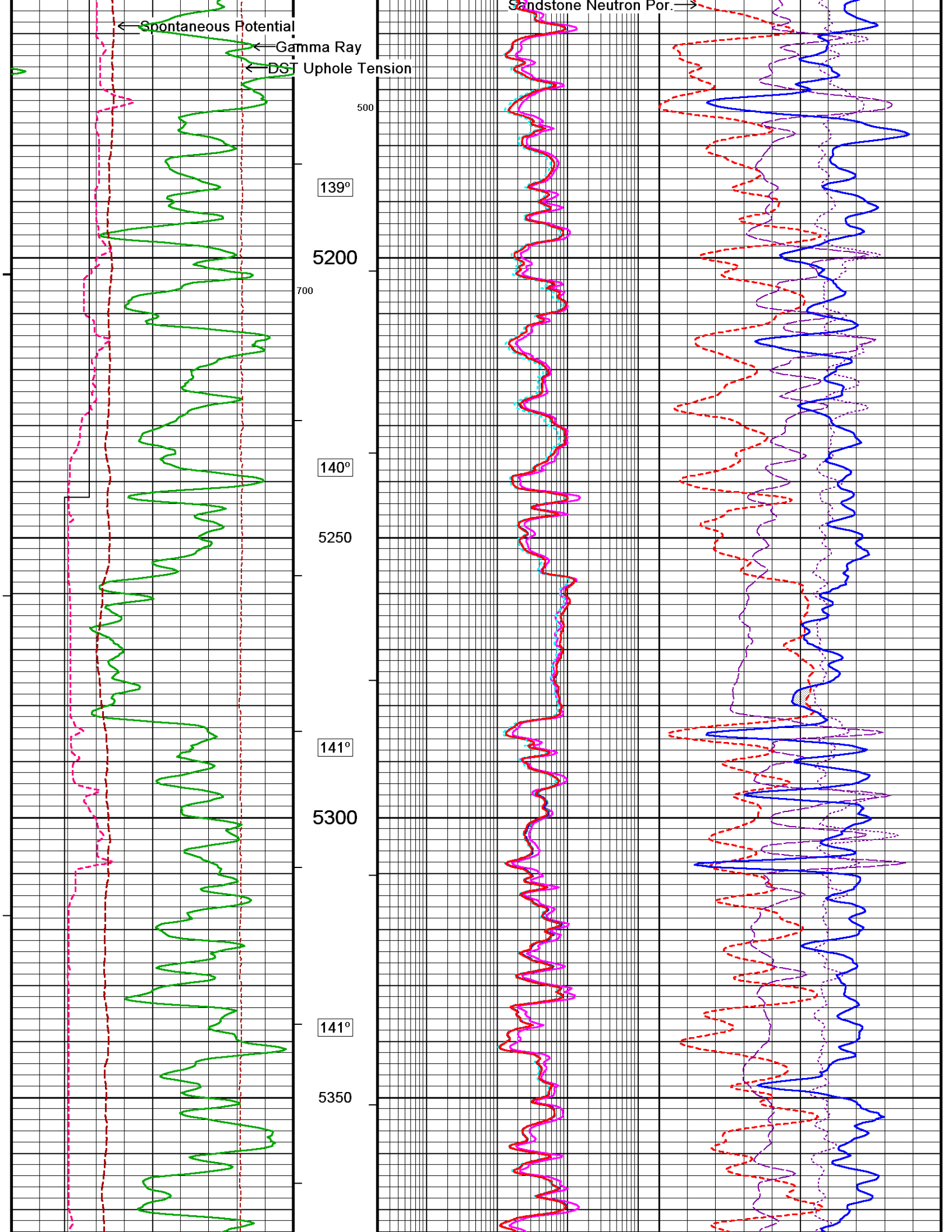

128°
4100
1200
128°
4150
129°
4200
129°
4250

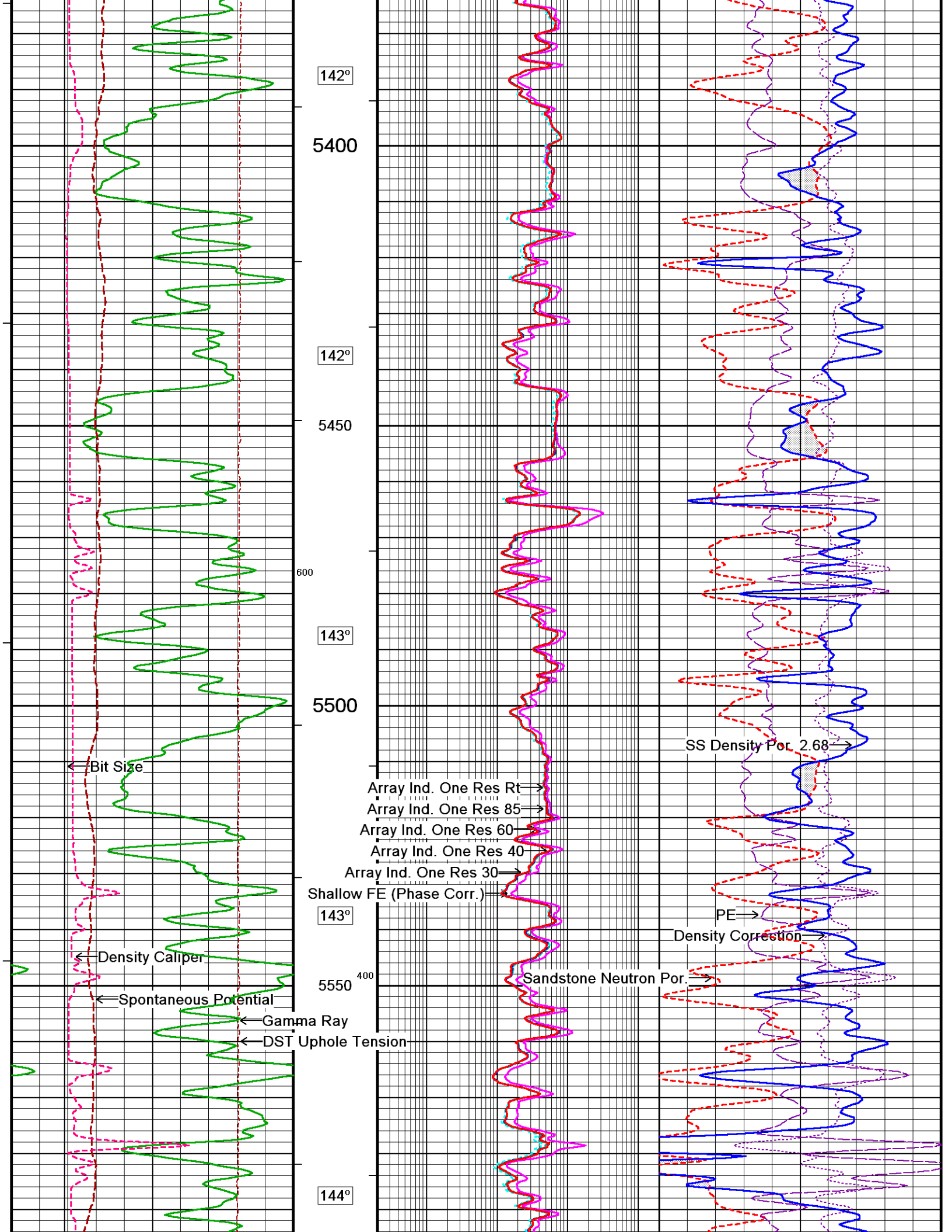

129°
800
4300
1100
130°
4350
130°
4400
131°
4450
132°
Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.

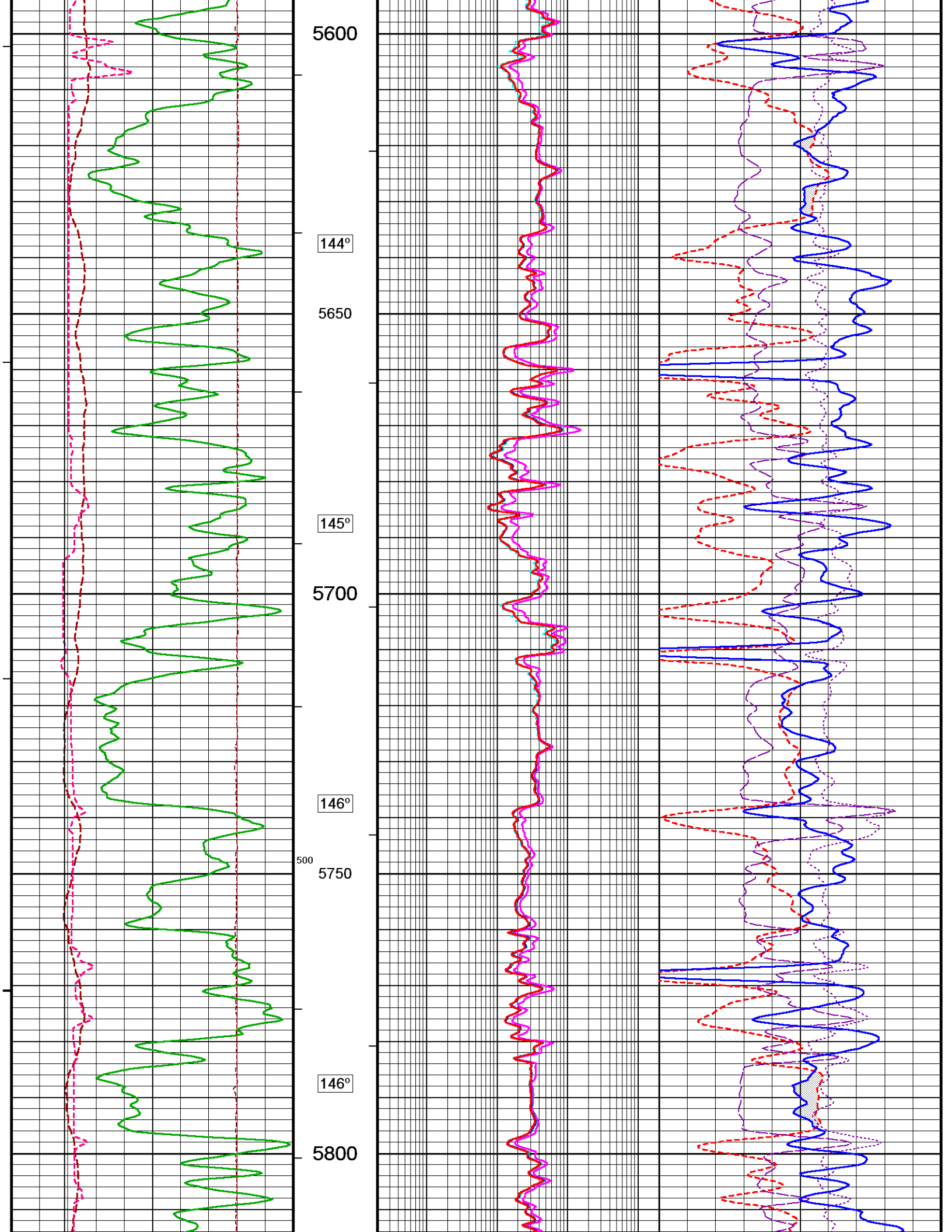

4500
1000
132°
4550
700
133°
4600
133°
4650
134°
4700

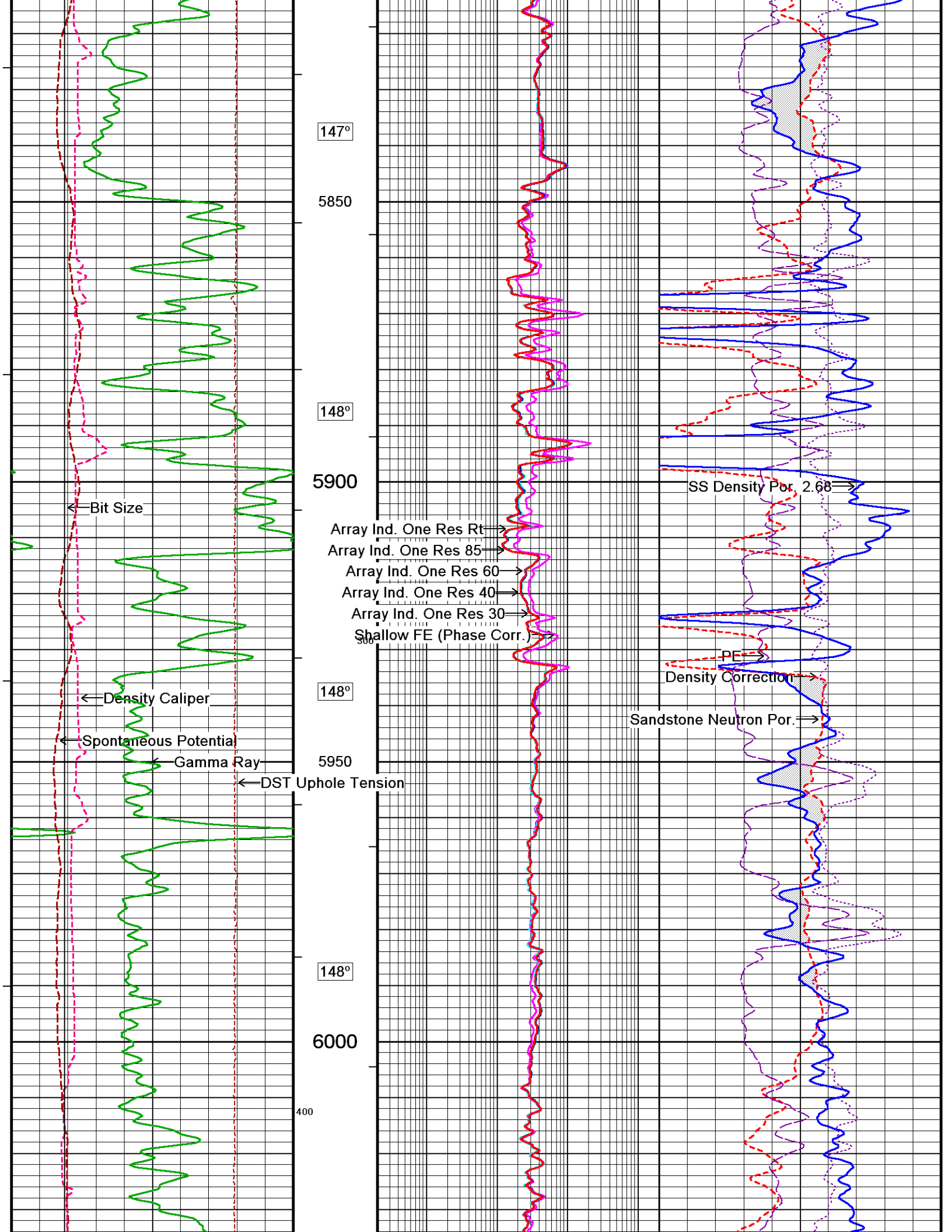

Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.
134°
135°
135°
136°
4750
4800
4850
4900
900
600

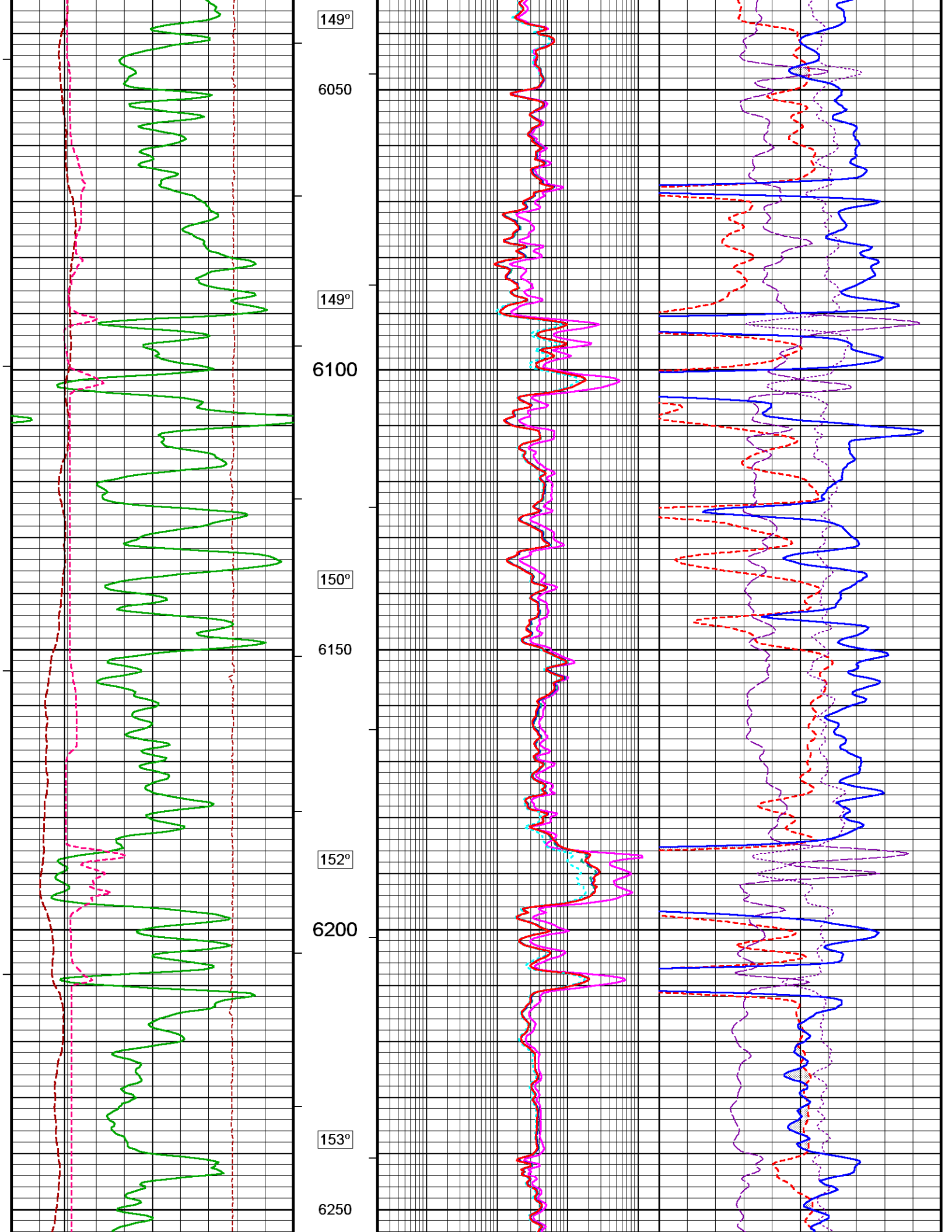

136°
4950
800
137°
5000
138°
5050
138°
5100
138°
5150
Bit Size
Density Caliper
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction

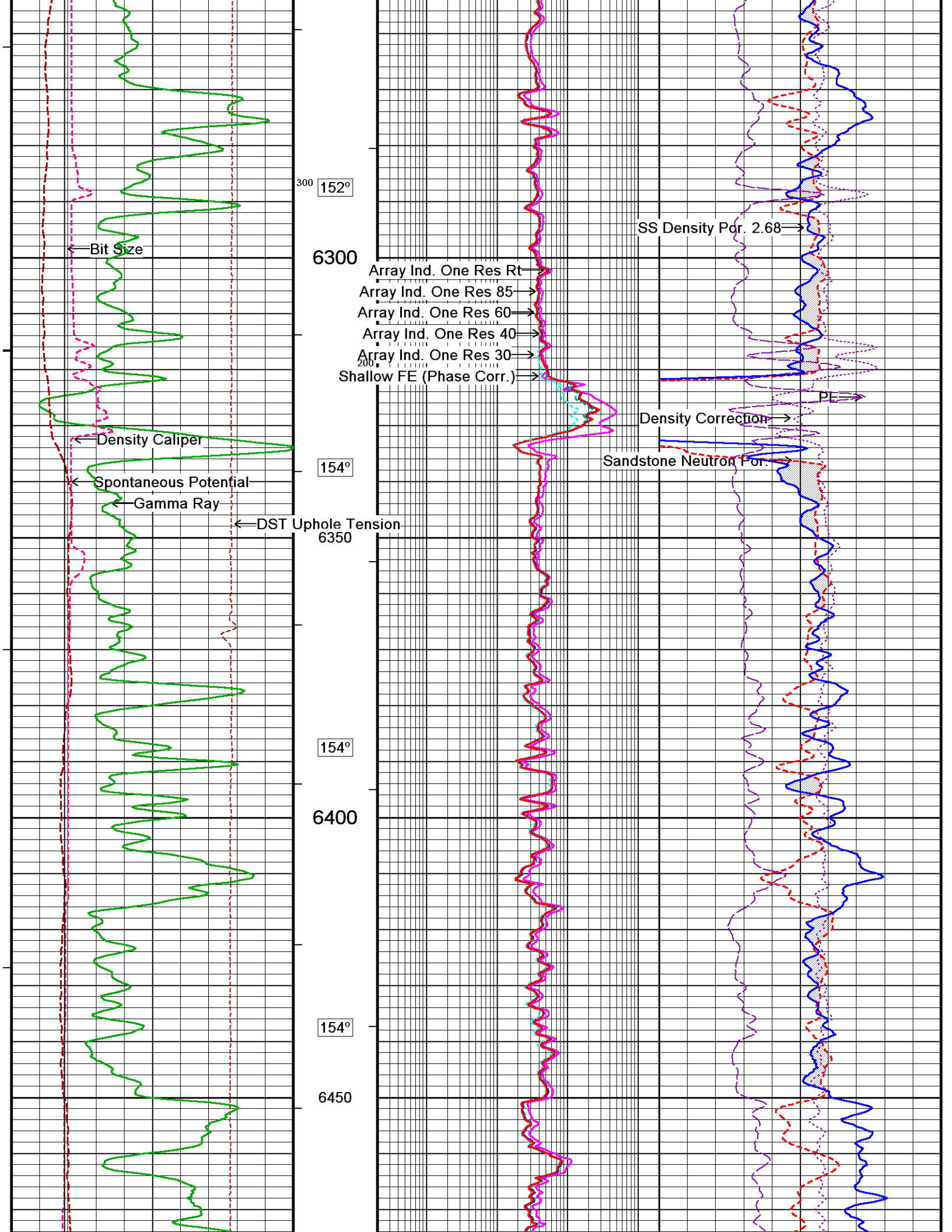

Spontaneous Potential
Gamma Ray
DST Uphole Tension
Sandstone Neutron Por.
500
700
139°
5200
140°
5250
141°
5300
141°
5350

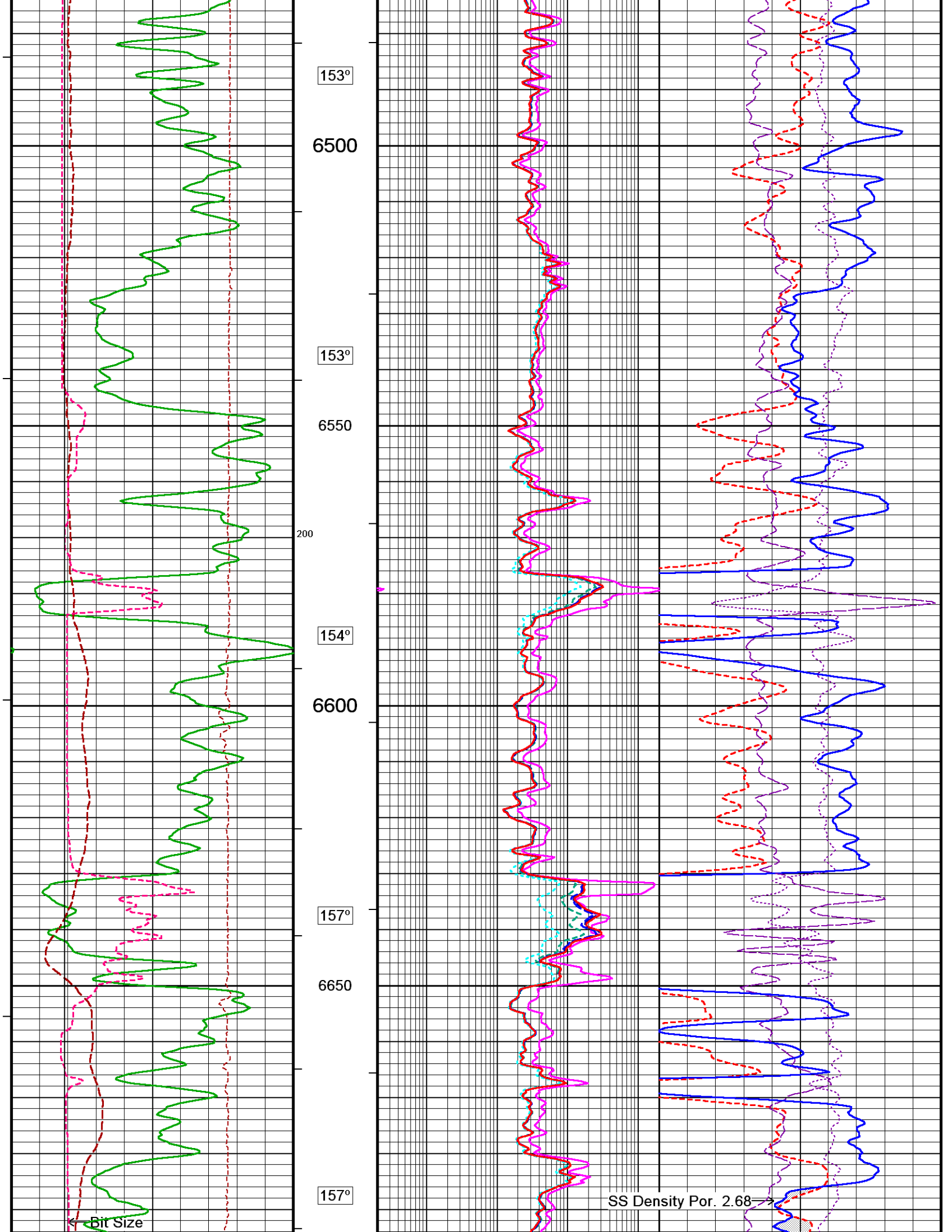

142°
5400
142°
5450
600
143°
5500
Bit Size
Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
143°
SS Density Por. 2.68
PE
Density Correction
Density Caliper
400
5550
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
144°

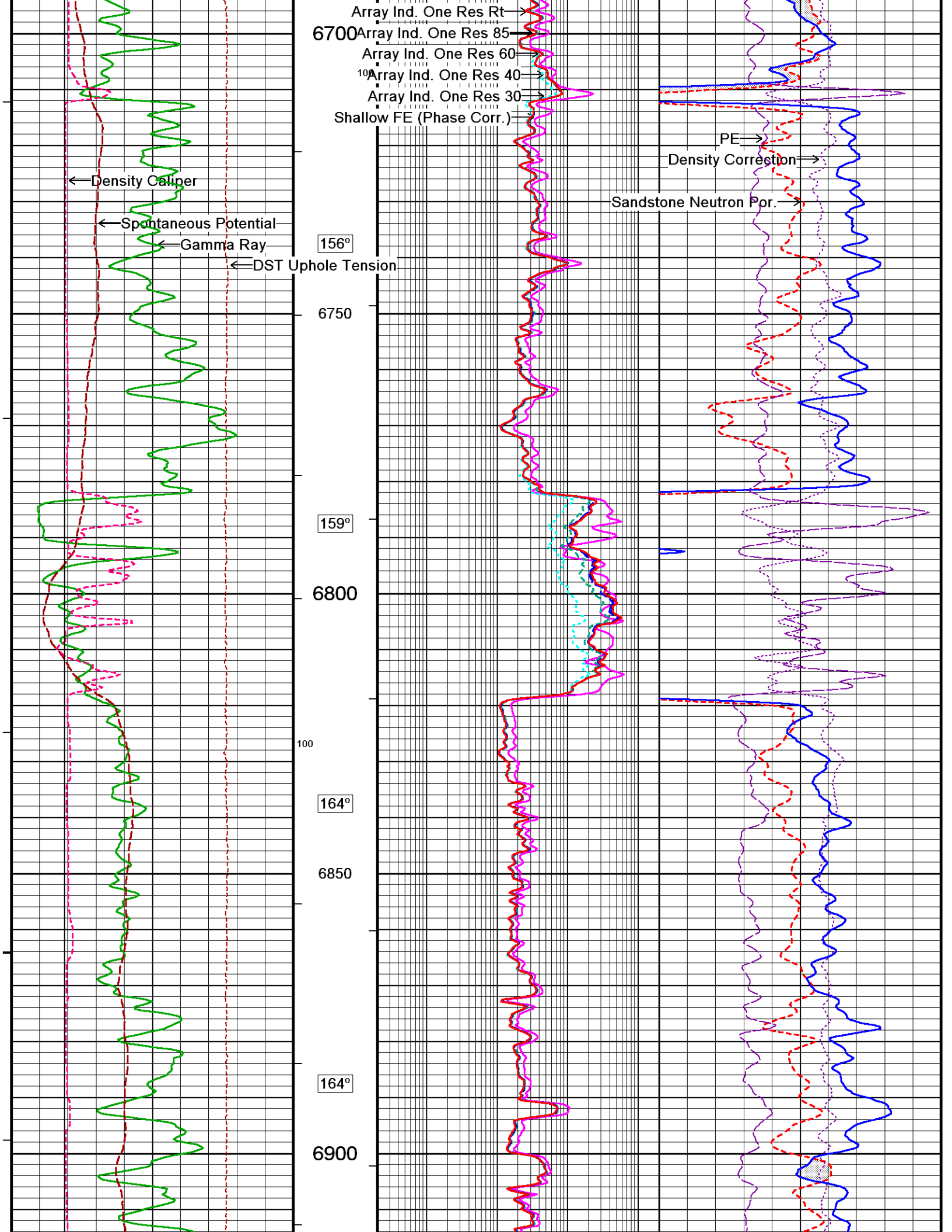

5600
144°
5650
145°
5700
146°
500
5750
146°
5800


147°
5850
148°
5900
148°
5950
148°
6000
Bit Size
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
300
400
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
Shallow FE (Phase Corr.)
SS Density Por. 2.68
PE
Density Correction
Sandstone Neutron Por.


149°
6050
149°
6100
150°
6150
152°
6200
153°
6250


300
152°
SS Density Por. 2.68
Bit Size
6300
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
200
Shallow FE (Phase Corr.)
PE
Density Correction
Density Caliper
154°
Sandstone Neutron Por.
Spontaneous Potential
Gamma Ray
DST Uphole Tension
6350
154°
6400
154°
6450


153°
6500
153°
6550
200
154°
6600
157°
6650
157°
← Bit Size
SS Density Por. 2.68→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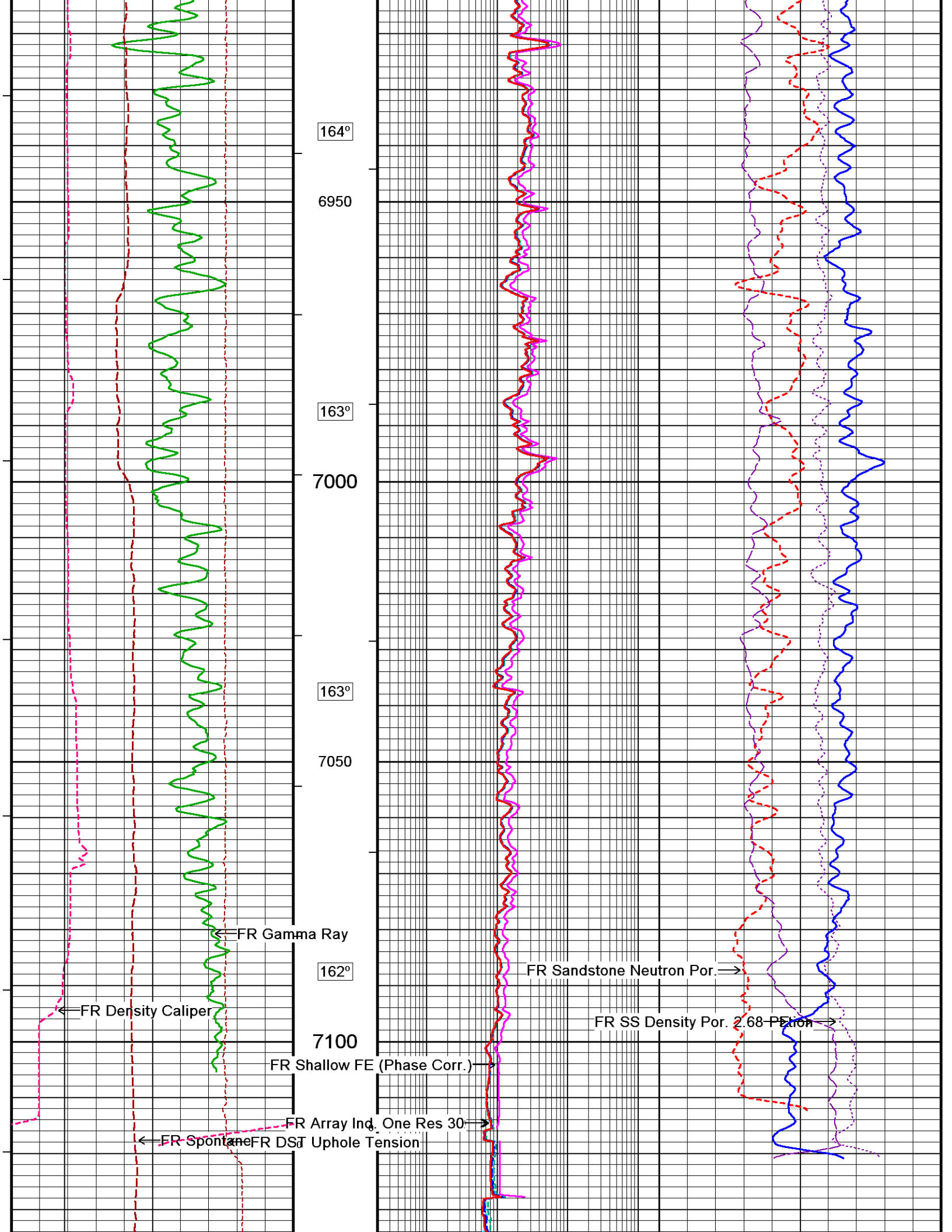
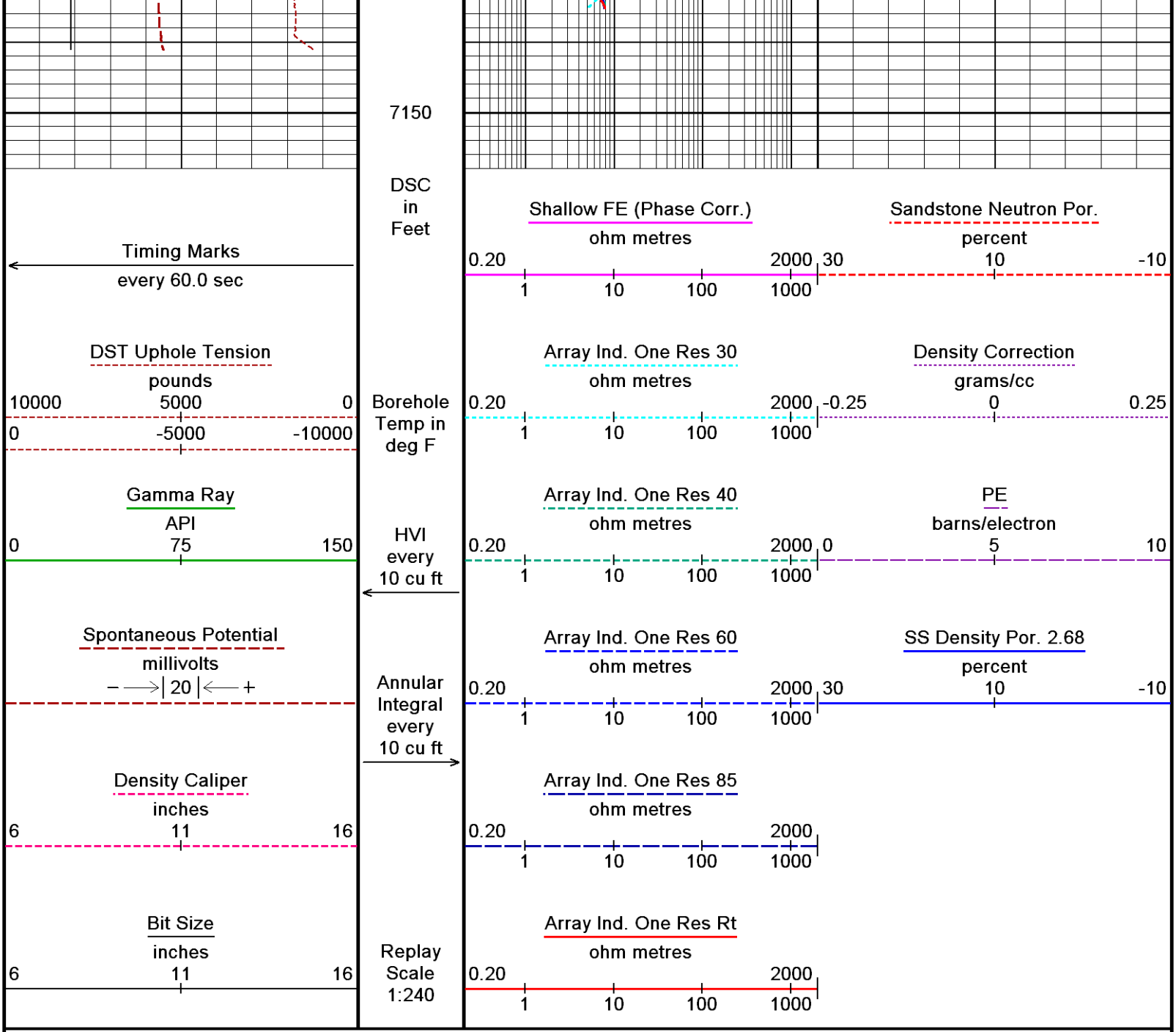
6700
Array Ind. One Res 85
Array Ind. One Res 60
100
Array Ind. One Res 40
Array Ind. One Res 30
Shallow FE (Phase Corr.)
PE
Density Correction
Sandstone Neutron Por.
Density Caliper
Spontaneous Potential
Gamma Ray
DST Uphole Tension
156°
6750
159°
6800
100
164°
6850
164°
6900


164°
6950
163°
7000
163°
7050
FR Gamma Ray
162°
FR Density Caliper
7100
FR Shallow FE (Phase Corr.)
FR Array Ind. One Res 30
FR Spontane
FR DST Uphole Tension
FR Sandstone Neutron Por.
FR SS Density Por. 2.68 Ption

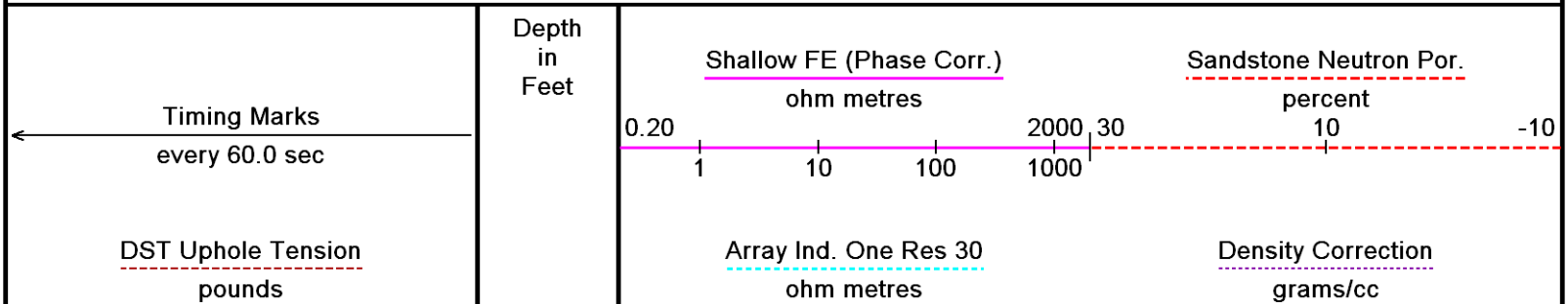


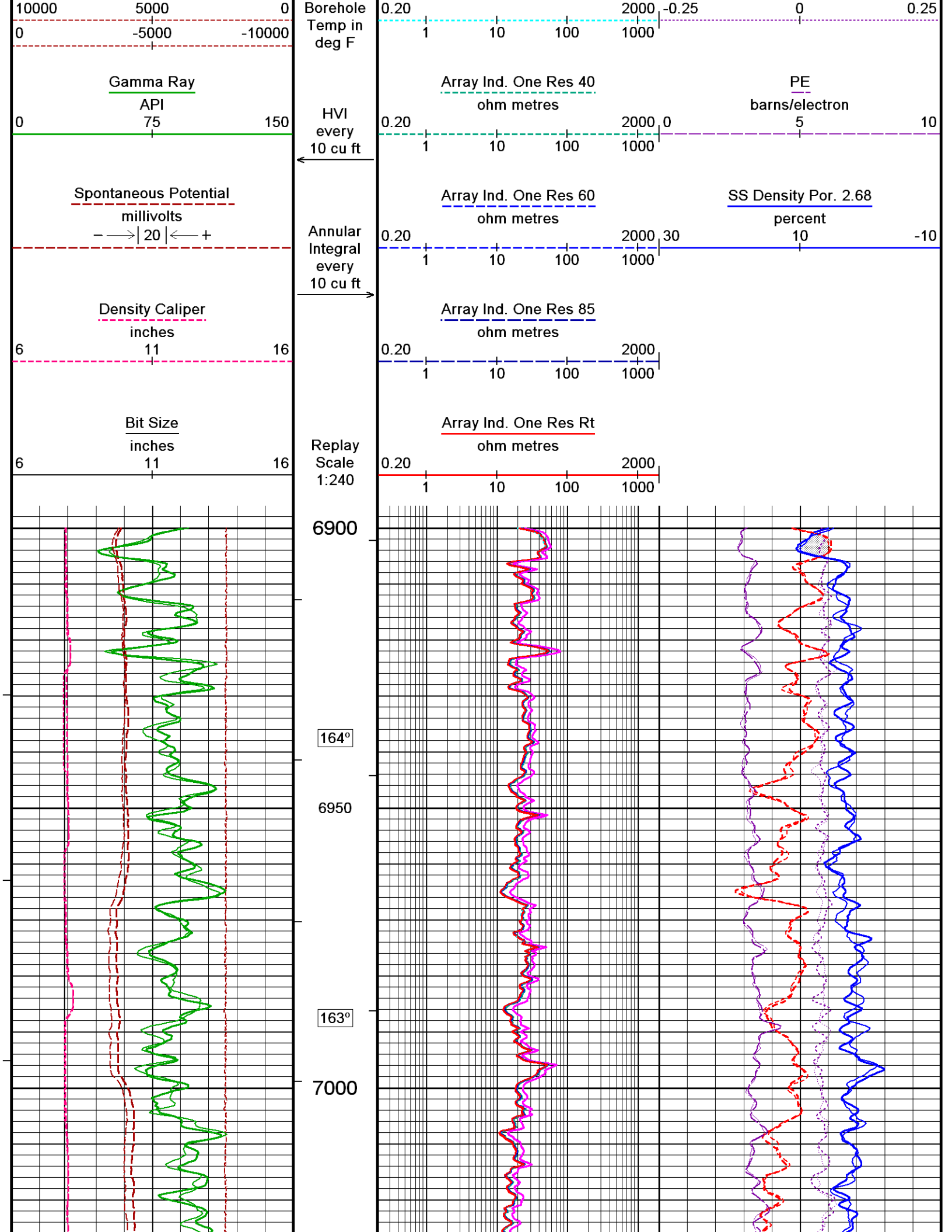
Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 15-APR-2011 13:15
Filename: C:\DOCUME~1\rodgerbx\LOCALS~1\Temp\W...\Bill Barrett GGU Miller 14C-31-691_003.dta — Recorded on 14-APR-2011 19:14
System Versions: Logged with 11.02.3186 Plotted with 11.02.2164

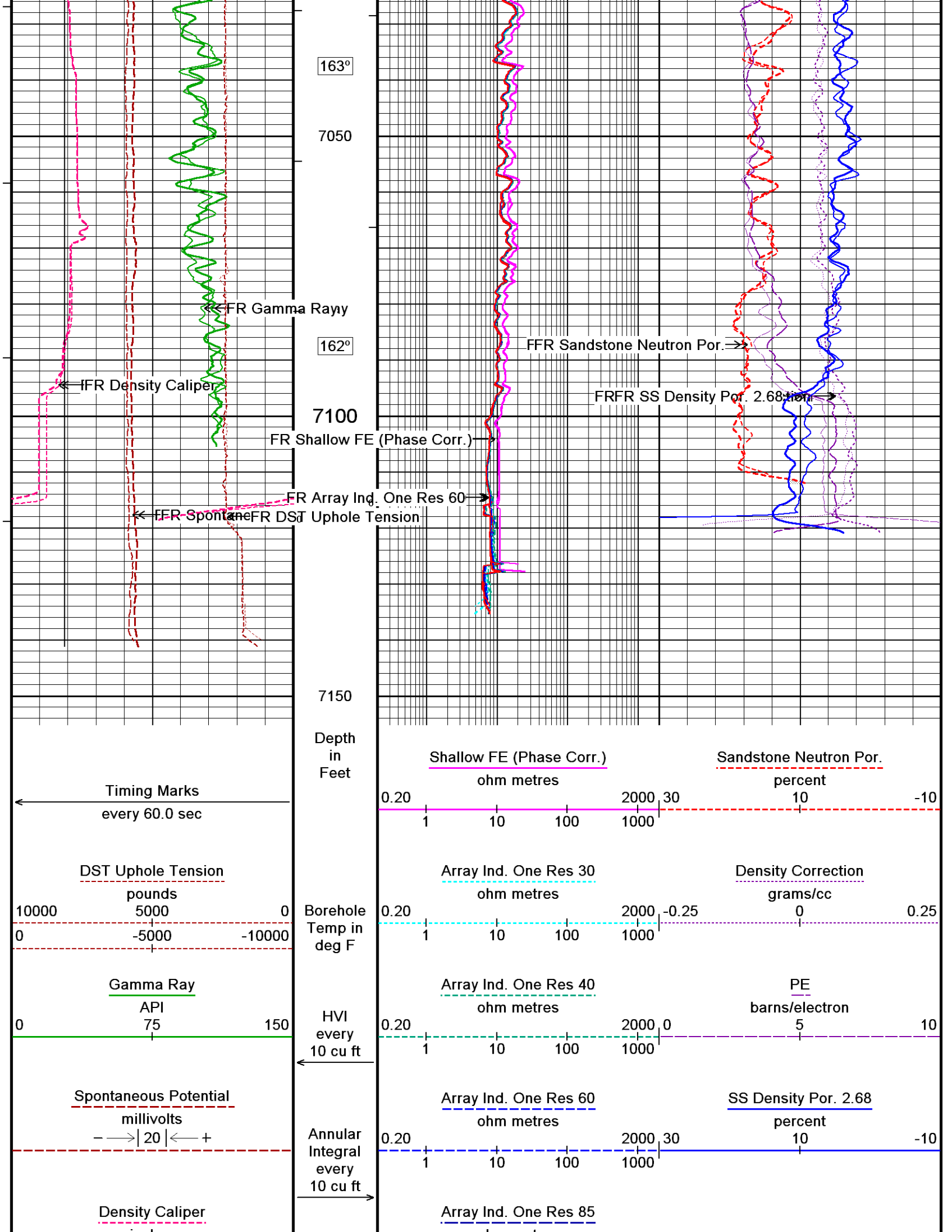
5 INCH MAIN LOG

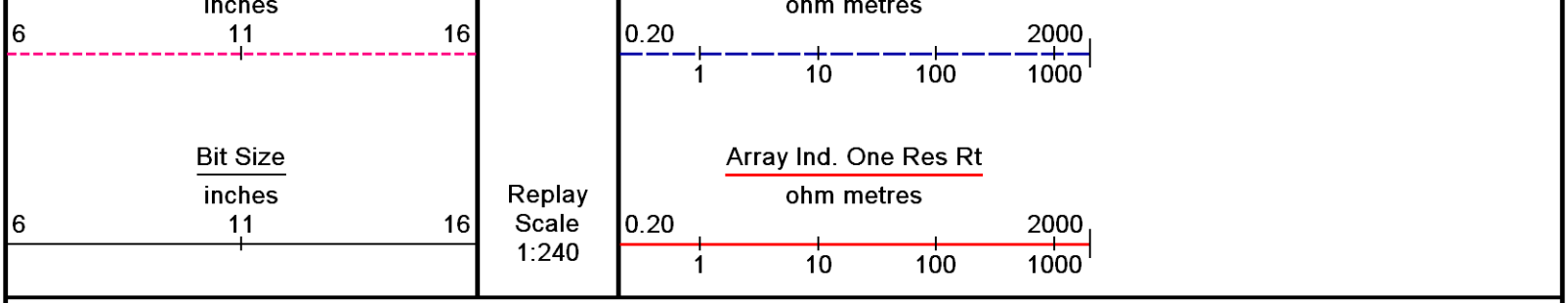
OVERLAY

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 15-APR-2011 13:15
Filename: C:\DOCUME~1\rodgerbx\LOCALS~1\Temp\W...\Bill Barrett GGU Miller 14C-31-691_003.dta — Recorded on 14-APR-2011 19:14
Filename: C:\DOCUME~1\rodgerbx\LOCALS~1\Temp\W...\Bill Barrett GGU Miller 14C-31-691_002.dta — Recorded on 14-APR-2011 18:58
System Versions: Logged with 11.02.3186 Plotted with 11.02.2164




10000
5000
0
0
-5000
-10000
Borehole Temp in deg F
0.20
2000
1
10
100
1000
-0.25
0
0.25
Gamma Ray
API
0
75
150
HVI every 10 cu ft
Array Ind. One Res 40
ohm metres
0.20
2000
1
10
100
1000
PE
barns/electron
0
5
10
Spontaneous Potential
millivolts
20
Array Ind. One Res 60
ohm metres
0.20
2000
1
10
100
1000
SS Density Por. 2.68
percent
30
10
-10
Annular Integral every 10 cu ft
Density Caliper
inches
6
11
16
Array Ind. One Res 85
ohm metres
0.20
2000
1
10
100
1000
Bit Size
inches
6
11
16
Array Ind. One Res Rt
ohm metres
0.20
2000
1
10
100
1000
Replay Scale 1:240
6900
164°
6950
163°
7000


163°
7050
FR Gamma Ray
162°
FFR Sandstone Neutron Por.
IFR Density Caliper
FRFR SS Density Por. 2.68
7100
FR Shallow FE (Phase Corr.)
FR Array Ind. One Res 60
FFR Spontane
FR DST Uphole Tension
7150
Depth in Feet
Timing Marks
every 60.0 sec
Shallow FE (Phase Corr.)
ohm metres
0.20
2000
1
10
100
1000
Sandstone Neutron Por.
percent
30
10
-10
DST Uphole Tension
pounds
10000
5000
0
-5000
-10000
Borehole Temp in deg F
Array Ind. One Res 30
ohm metres
Density Correction
grams/cc
-0.25
0
0.25
Gamma Ray
API
75
150
HVI every 10 cu ft
Array Ind. One Res 40
PE
barns/electron
5
Spontaneous Potential
millivolts
20
Annular Integral every 10 cu ft
Array Ind. One Res 60
SS Density Por. 2.68
Density Caliper
Array Ind. One Res 85



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 15-APR-2011 13:15
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OVERLAY

BEFORE SURVEY CALIBRATION

C:\DOCUME~1\rodgerbx\LOCALS~1\Temp\Weatherford PreView\0\Bill Barrett GGU Miller 14C-31-691_003.dta

General Constants All 000

Last Edited on 14-APR-2011,18:18

General Parameters		
Mud Resistivity	1.640	ohm-metres
Mud Resistivity Temperature	57.700	degrees F
Water Level	0.000	feet
Density/Neutron Processing	Wet Hole	
Hole/Annular Volume and Differential Caliper Parameters		
HVOL Method	Single Caliper	
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	N/A	
Annular Volume Diameter	4.500	inches
Caliper for Differential Caliper	None	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Array Ind. Two Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	

Down-hole Tension Calibration SMS 0

Field Calibration on 14-APR-2011 17:55

Reading No	Measured	Calibrated (lbs)
1	15011.69	0.00
2	15925.39	350.00

High Resolution Temperature Calibration MCG-C 145

Field Calibration on 17-NOV-2010,12:09

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

High Resolution Temperature Constants MCG-C 145

Last Edited on 24-NOV-2009,08:49

Pre-filter Length	11

SP Calibration MCG-C 145

Field Calibration on 25-MAR-2011 10:39

	Measured	Calibrated (mV)
Reference 1	103.7	100.1
Reference 2	-96.4	-100.1

Gamma Calibration MCG-C 145

Field Calibration on 13-APR-2011 03:48

	Measured	Calibrated (API)
Background	72	50
Calibrator (Gross)	764	530
Calibrator (Net)	692	480

Gamma Constants MCG-C 145

Last Edited on 14-APR-2011,16:37

Gamma Calibrator Number	GRCC 112	
Mud Density	1.00	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

Micro Normal and Micro Inverse Calibration MDN-B.A 191

Base Calibration on 3-MAY-2007 19:21
Field Check on

Base Calibration

Channel	Measured Resistor 1	Measured Resistor 2	Calibrated (ohm-m) Resistor 1	Calibrated (ohm-m) Resistor 2
Micro Normal	8.2	41.0	10.0	50.0
Micro Inverse	8.2	41.2	10.0	50.0

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	0.0	0.0
Micro Inverse	0.0	0.0

Micro Normal and Micro Inverse Constants MDN-B.A 191

Last Edited on 13-FEB-2007,11:14

Pad Type	0	
Micro Normal K Factor	1.0000	
Micro Inverse K Factor	1.0000	
Standoff Offset	N/A	inches

Neutron Calibration MDN-B.A 191

Base Calibration on 25-MAR-2011 17:12
Field Check on 25-MAR-2011 17:27

Base Calibration

	Measured Near	Measured Far	Calibrated (cps) Near	Calibrated (cps) Far
	2849	87	3714	110
Ratio	32.715		33.764	

Field Calibrator at Base	Calibrated (cps)	
	1625	2417
Ratio	0.672	

Field Check	Calibrated (cps)	
	1629	2428
Ratio	0.671	

Neutron Constants MDN-B.A 191

Last Edited on 14-APR-2011,16:38

Neutron Source Id	P44382B	
Neutron Jig Number	6531NK	
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	

FE Calibration MFE-B.A 220

Base Calibration on 30-MAR-2011 14:59
Field Check on 13-APR-2011 04:02

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	969.9	126.8
Base Check		279.2
Field Check		279.7

FE Constants MFE-B.A 220

Last Edited on 14-APR-2011,16:38

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	1.0	inches

Induction Calibration MAI-B.J 362

Base Calibration on 25-MAR-2011,10:28
Field Check on 13-APR-2011 03:54

Base Calibration

Test Loop Calibration	Measured		Calibrated (mmho/m)		
Channel	Low	High	Low	High	
1	16.0	468.7	9.3	966.2	
2	6.2	374.5	7.6	821.4	
3	3.6	258.3	5.2	566.0	
4	1.8	133.1	2.6	279.2	
Array Temperature		74.8	Deg F		

Channel	Base Check (mmho/m)		Field Check (mmho/m)		
	Low	High	Low	High	
1	14.3	3873.2	14.5	3873.6	
2	30.4	3605.8	30.3	3605.8	
3	28.4	3069.3	28.4	3069.2	
4	19.7	2079.0	19.7	2078.8	
Deep	17.4	1954.0	17.4	1953.8	
Medium	41.1	4077.4	41.1	4077.3	
Shallow	45.4	5400.9	45.3	5401.3	
Array Temperature		51.3		54.9	Deg F

Induction Constants MAI-B.J 362

Last Edited on 14-APR-2011,16:39

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	1.00	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 Calibration MAI-B.J 362

Field Calibration on 17-NOV-2010,12:11

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

High Resolution Temperature Constants MAI-B.J 362

Last Edited on

Pre-filter Length	11

Caliper Calibration MPD-C.A 215

Base Calibration on 25-MAR-2011 13:44
Field Calibration on 25-MAR-2011 13:46

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	15503	3.99
2	24031	5.96
3	32776	7.99
4	40832	9.86
5	50287	11.93
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
8.02	7.99

Photo Density Calibration MPD-C.A 215

Base Calibration on 25-MAR-2011 15:30
Field Check on 25-MAR-2011 15:37

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	43828	15039	52994	19128
Reference 2	20830	2475	25185	2558

Field Check at Base

1314.9	1399.1

Field Check

1314.9	1394.6

PE Calibration

Base Calibration	Measured			Calibrated
	WS	WH	Ratio	Ratio
Background	238	1173		
Reference 1	14612	43655	0.338	0.309
Reference 2	5801	20682	0.285	0.274

Field Check at Base

237.9	1173.1

Field Check

237.8	1170.0

Density Constants MPD-C.A 215

Last Edited on 14-APR-2011,16:26

Density Source Id	2859GW	
Nylon Calibrator Number	DNC-E-527	
Aluminium Calibrator Number	DAC-D-527	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.37	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)
2.68	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:\DOCUME~1\rodgerbx\LOCALS~1\Temp\Weatherford PreView\0\Bill Barrett GGU Miller 14C-31-691_003.dta

MCB-A.A 11B Tension Cablehead
MCB-A.A 102 LG: 2.40 ft WT: 19.8 lb OD: 2.24 in

SHA-F Compact Swivel Head Adaptor
SHA-F 57 LG: 2.74 ft WT: 26.5 lb OD: 2.24 in

Compact Comms Gamma
MCG-C 145 LG: 8.70 ft WT: 63.9 lb OD: 2.24 in

Compact Neutron
MDN-B.A 191 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

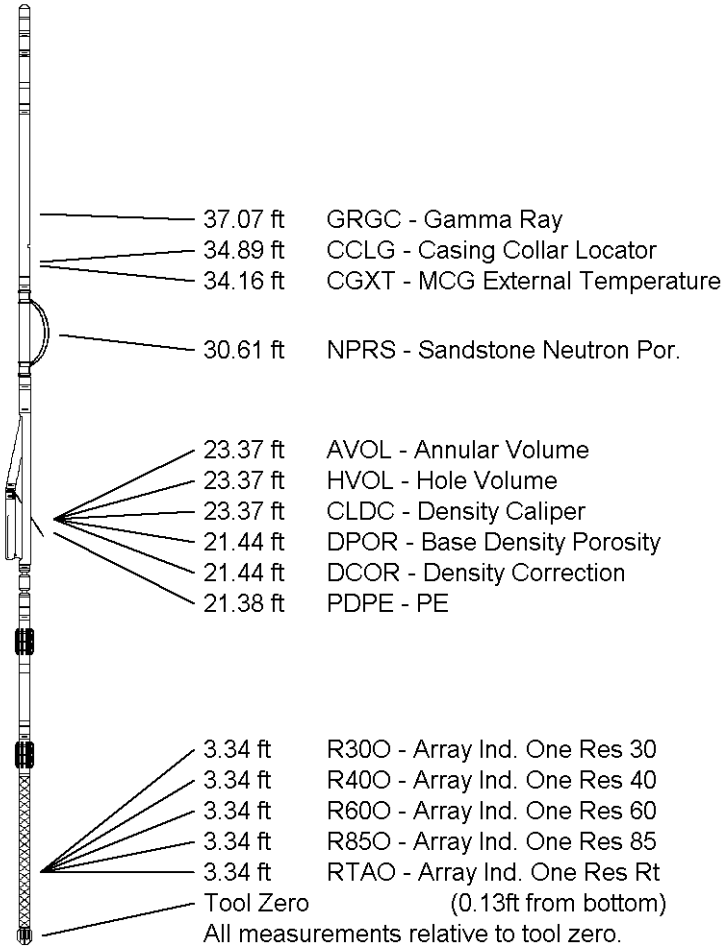
Compact Density/Caliper
MPD-C.A 215 LG: 9.59 ft WT: 90.4 lb OD: 2.45 in

SKJ-D.A Compact Knuckle Joint
SKJ-D.A 65 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Focussed Electric
MFE-B.A 220 LG: 6.05 ft WT: 48.5 lb OD: 2.24 in

Compact Induction
MAI-B.J 362 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 47.49 ft Weight: 372.6 lb



COMPANY	BILL BARRETT CORPORATION
WELL	GGU MILLER 14C-31-691
FIELD	GIBSON GULCH
PROVINCE/COUNTY	GARFIELD
COUNTRY/STATE	U.S.A. / COLORADO

Elevation Kelly Bushing	6045.00	feet	First Reading	7118.00	
Elevation Drill Floor	6044.00	feet	Depth Driller	7120.00	feet
Elevation Ground Level	6029.00	feet	Depth Logger	7118.00	feet

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LOG

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