ARRAY INDUCTION / RSFE
PHOTO DENSITY / NEUTRON
GAMMA RAY LOG

COMPANY	ENDEAVOR NATURAL GAS, LP.
WELL	LAKE ARTHUR RECLAMATION CO. #1
FIELD	PERREAU ISLAND
PROVINCE/COUNTY	CAMERON
COUNTRY/STATE	USA / LOUISIANA
LOCATION	LAT. 29*45'48.16"N LON: 92*45'10.42"W

COMPACT

SEC	TWP	RGE	Other Services
23	12S	04W	

API Number 17-023-23027
Permit Number 239919

Permanent Datum G.L., Elevation -1.5 feet
Log Measured From K.B. @ 30 FT. above Permanent Datum
Drilling Measured From K.B.

Elevations:	feet
KB	28.50
DF	27.50
GL	-1.50

Date	23-AUG-2009			
Run Number	ONE			
Depth Driller	12888.00	feet		
Depth Logger	12814.00	feet		
First Reading	12813.00	feet		
Last Reading	1800.00	feet		
Casing Driller	8991.00	feet		
Casing Logger	8991.00	feet		
Bit Size	6.75	inches		
Hole Fluid Type	WATER BASED			
Density / Viscosity	10.40 lb/USg	42.00 SEC/QT		
PH / Fluid Loss	9.90	3.40 ml/30Min		
Sample Source	FLOW LINE			
Rm @ Measured Temp	0.80 @ 85.0	ohm-m		
Rmf @ Measured Temp	0.60 @ 85.0	ohm-m		
Rmc @ Measured Temp	1.0 @ 85.0	ohm-m		
Source Rmf / Rmc	CALC	CALC		
Rm @ BHT	0.34 @208.0	ohm-m		
Time Since Circulation	9 HOUR			
Max Recorded Temp	208.00	deg F		
Equipment Name	COMPACT			
Equipment / Base	13023	ALICE		
Recorded By	K. CALLIS			
Witnessed By	B. RUSS, P. MCCARTHY		M. WINSTON	
DRILLING RIG	PRECISION #77		.	

BOREHOLE RECORD

Last Edited: 23-AUG-2009 18:49

Bit Size inches	Depth From feet	Depth To feet
6.750	8891.00	12814.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
INTERMED	7.625	0.00	8891.00	29.70

REMARKS

S.O #3518398

MAI,MFE,MPD,MDN,MCG LOGGED IN COMBINATION
ANNULAR HOLE VOLUMES CALCULATED FRO 5.5 INCH CASING.
RWA CALCULATED USING A= .61 _M= 2.15
POROSITY ASSUMES A DENSITY MATRIX OF 2.65 g/cc
UNABLE TO GET LOG BELOW 12814' WHERE IT SAT DOWN.
GAMMA RAY LOGGED BEHIND PIPE TO 1800' AS PER CUSTOMERS REQUEST

CREW: F. CHAVEZ, J. DEVINEY
THANK YOU FOR CHOOSING WEATHERFORD WIRELINE SERVICES, ALICE, TX. (361) 661-1726

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1 Inch Log TVD

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 23-AUG-2009 20:06
Filename: E:\Logs\Data\Endeavor Natural Gas\Copy(3) of Triple Combo_001.dta
Recorded on 23-AUG-2009 16:04
System Versions: Logged with 8.05.0177 Processed with 8.05.0177 Plotted with 8.05.0177

Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150
150 225 300

Spontaneous Potential
millivolts
− → | 20 | ← +

TVD
in
Feet

Replay
Scale
1:1200

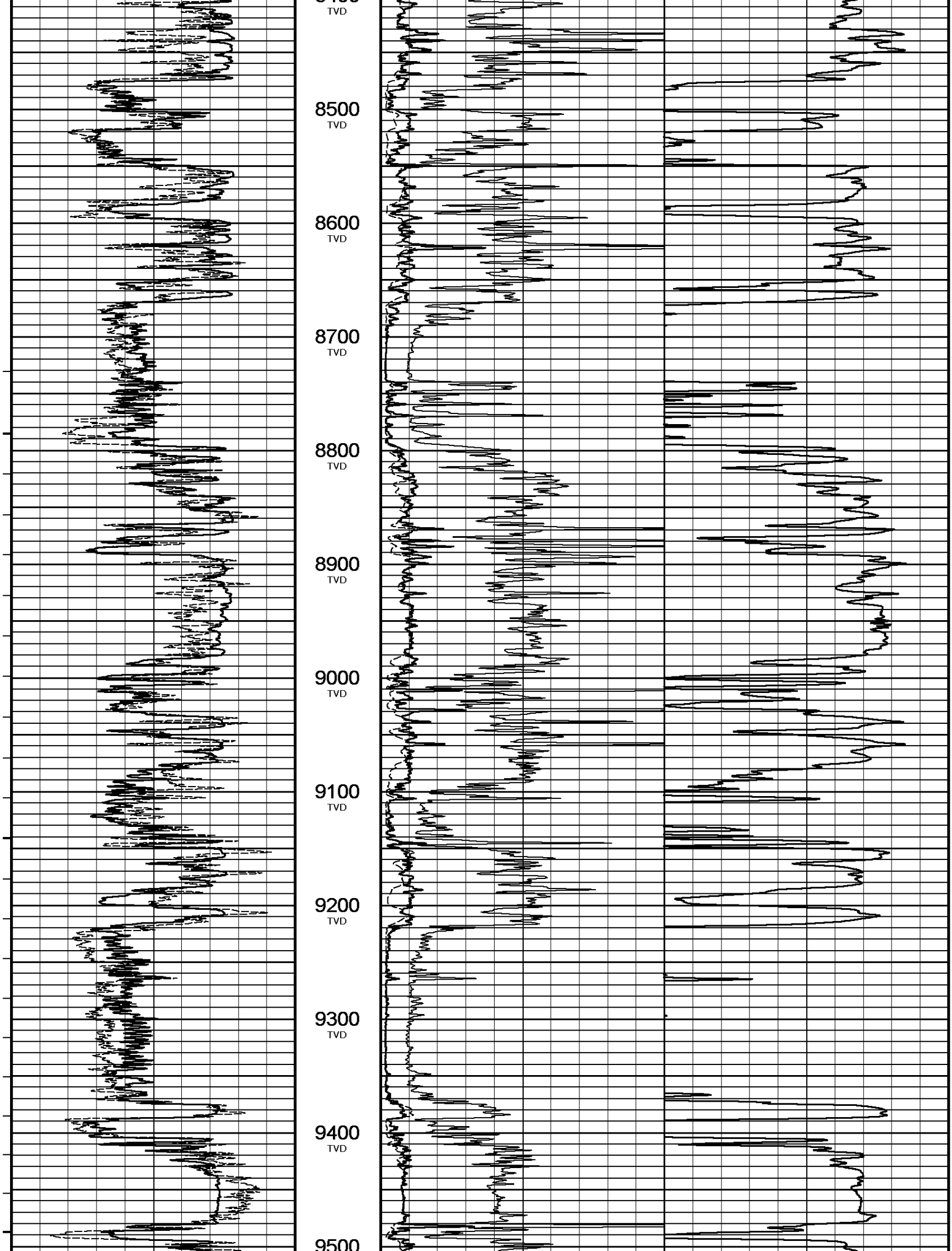
Shallow FE
ohm metres
0 5 10

Deep Conductivity
mmhos
4000 2000 0
0 -2000 -4000

Amplified Shallow FE
ohm metres
0 1 2

Deep Induction
ohm metres
0 5 10

7800 TVD
7900 TVD
8000 TVD
8100 TVD
8200 TVD
8300 TVD
8400 TVD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TVD
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TVD
8700
TVD
8800
TVD
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9000
TVD
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TVD
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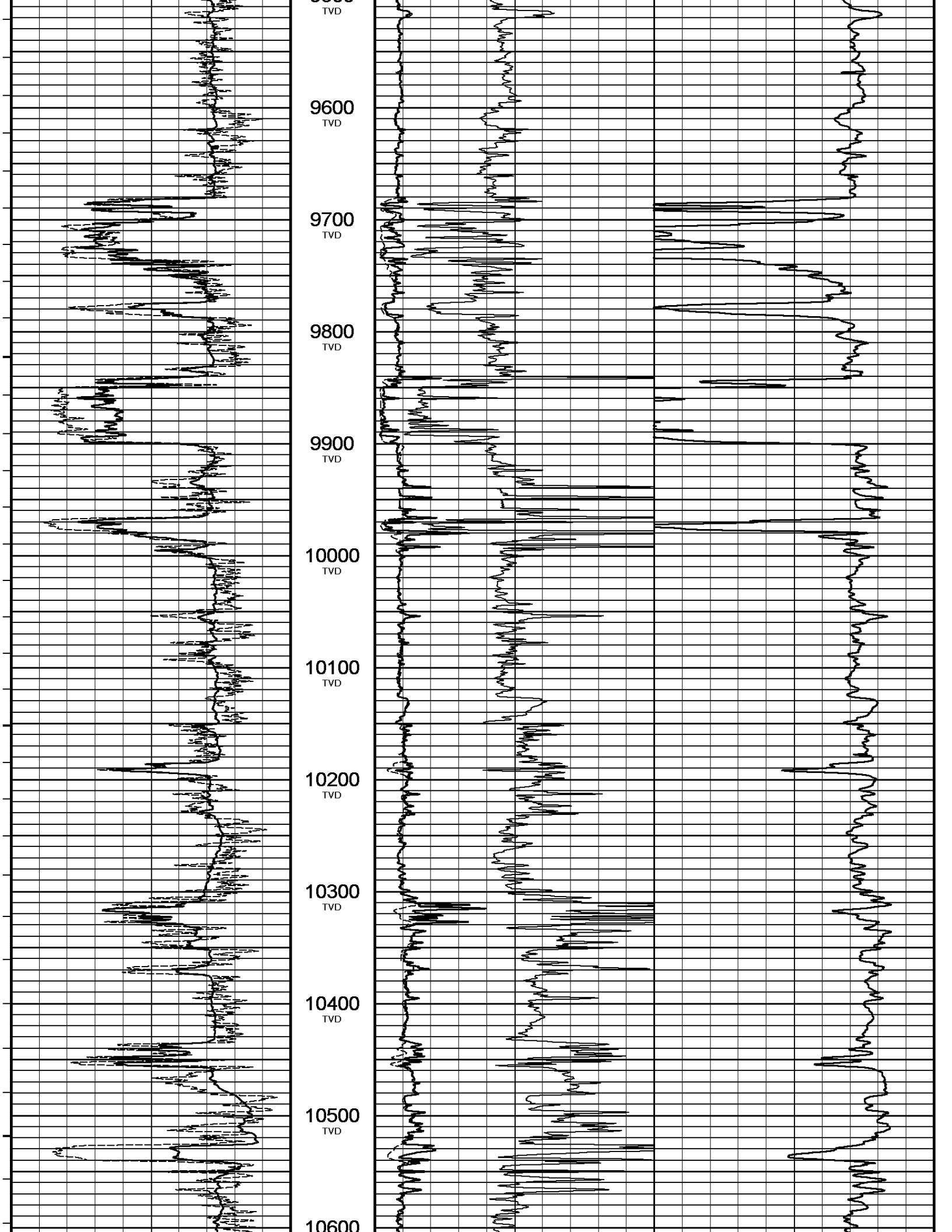
TVD
9400
TVD
9500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TVD
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9800
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9900
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10000
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10100
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10200
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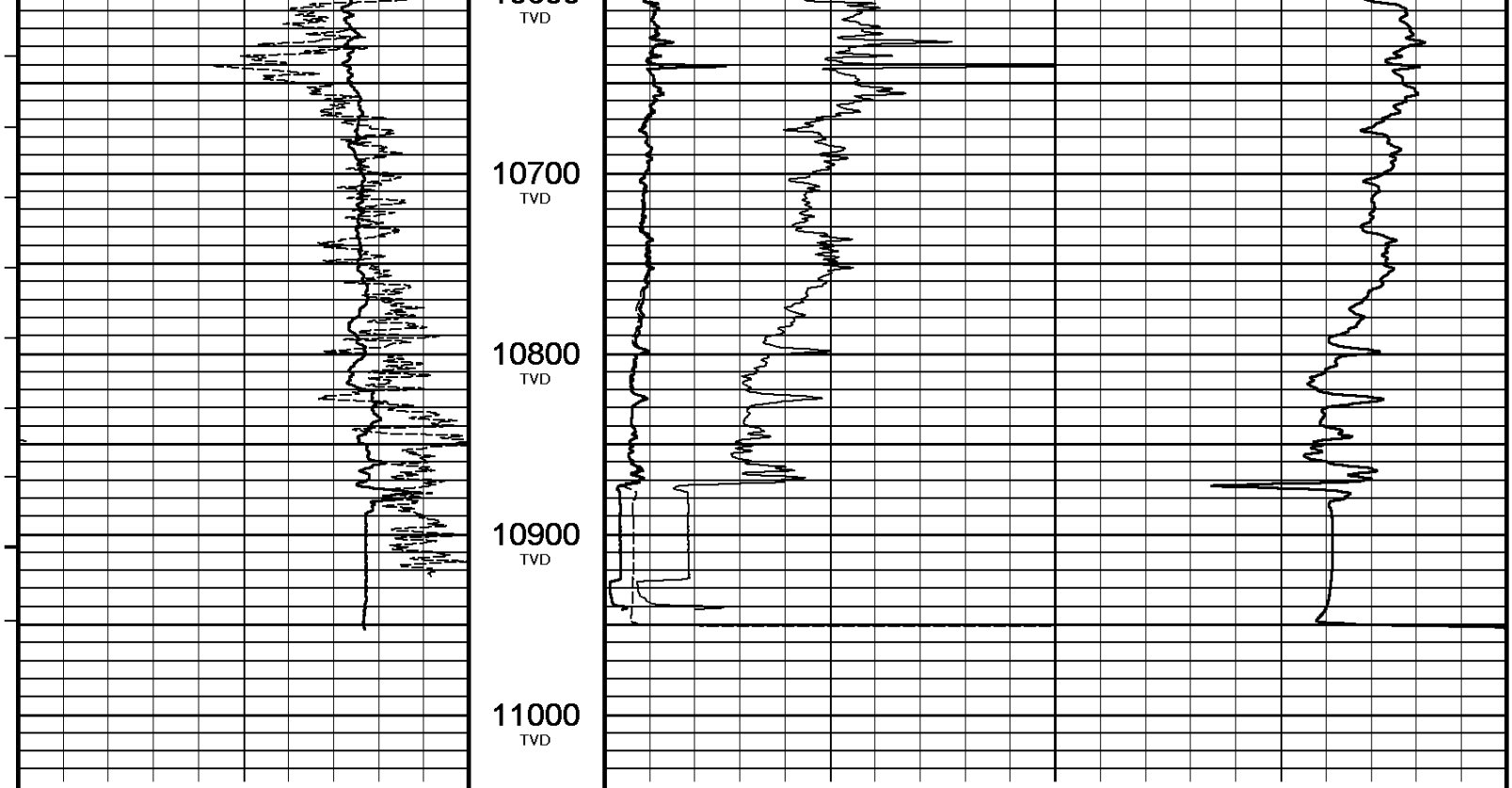
10300
TVD
10400
TVD
10500
TVD
10600



TVD in Feet

Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150
150 225 300

Spontaneous Potential
millivolts
− → | 20 | ← +

Shallow FE
ohm metres
0 5 10

Deep Conductivity
mmhos
4000 2000 0
0 -2000 -4000

Amplified Shallow FE
ohm metres
0 1 2

Deep Induction
ohm metres
0 5 10

Replay Scale 1:1200

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: E:\Logs\Data\Endeavor Natural Gas\Copy(3) of Triple Combo_001.dta
System Versions: Logged with 8.05.0177 Processed with 8.05.0177 Plotted with 8.05.0177
Plotted on 23-AUG-2009 20:06
Recorded on 23-AUG-2009 16:04

1 Inch Log TVD

2 Inch Log TVD

Depth Based Data - Maximum Sampling Increment 10.0cm
Filename: E:\Logs\Data\Endeavor Natural Gas\Copy(3) of Triple Combo_001.dta
System Versions: Logged with 8.05.0177 Processed with 8.05.0177 Plotted with 8.05.0177
Plotted on 23-AUG-2009 20:06
Recorded on 23-AUG-2009 16:04

TVD in Feet

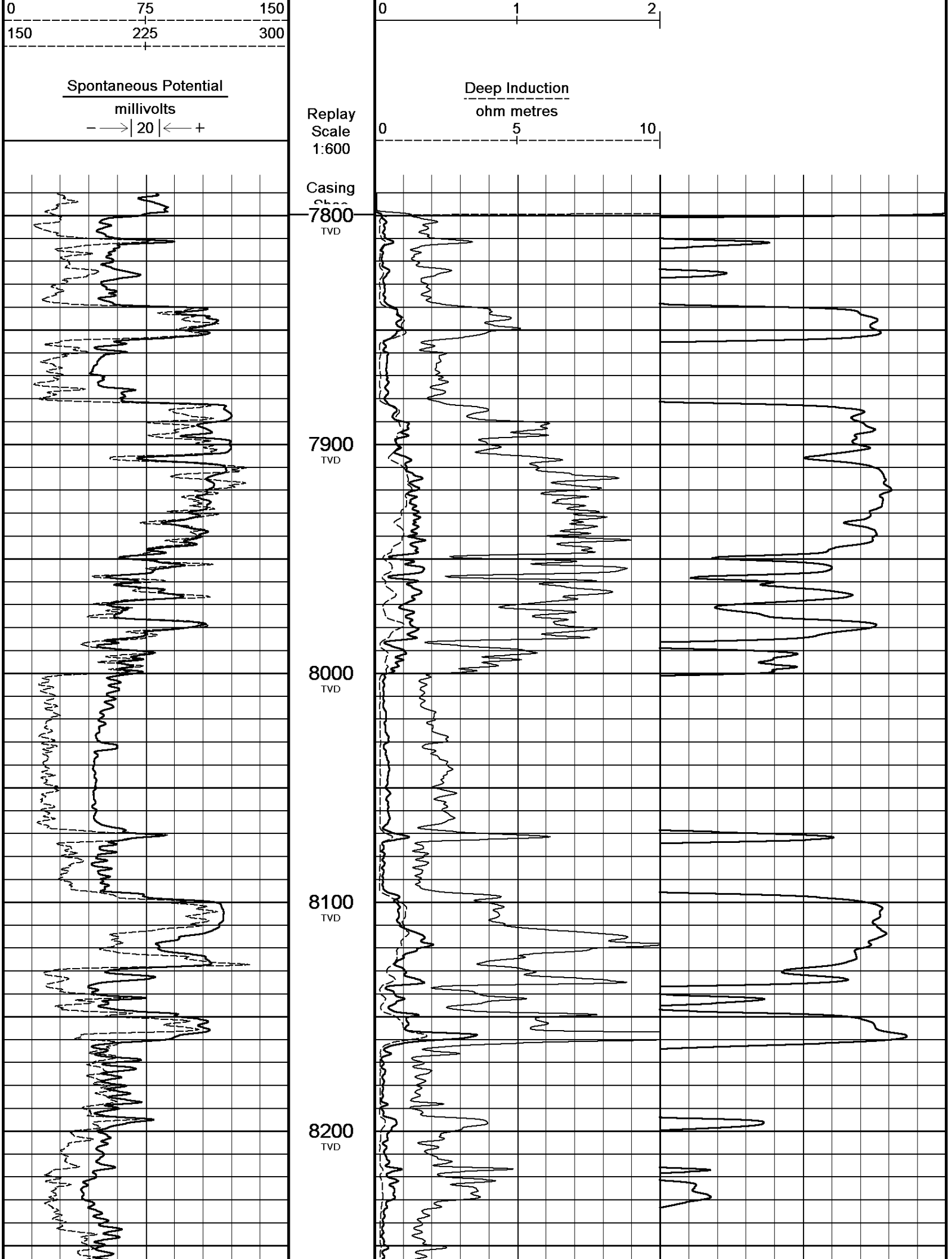
Timing Marks
every 60.0 sec

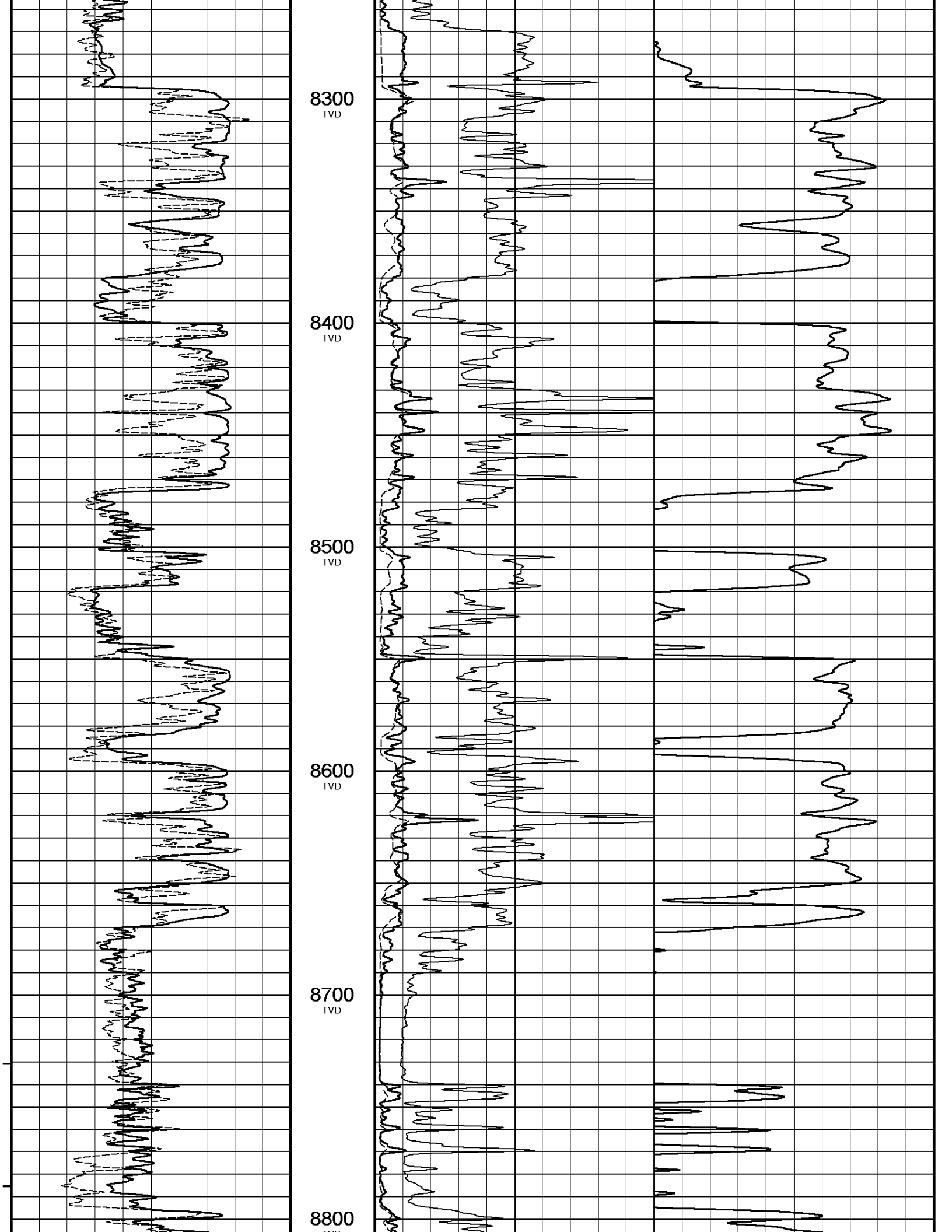
Shallow FE
ohm metres
0 5 10

Deep Conductivity
mmhos
4000 2000 0
0 -2000 -4000

Gamma Ray
API

Amplified Shallow FE
ohm metres


0
75
150
150
225
300
Spontaneous Potential
millivolts
20
0
1
2
Deep Induction
ohm metres
0
5
10
Replay
Scale
1:600
Casing
7800
TVD
7900
TVD
8000
TVD
8100
TVD
8200
TVD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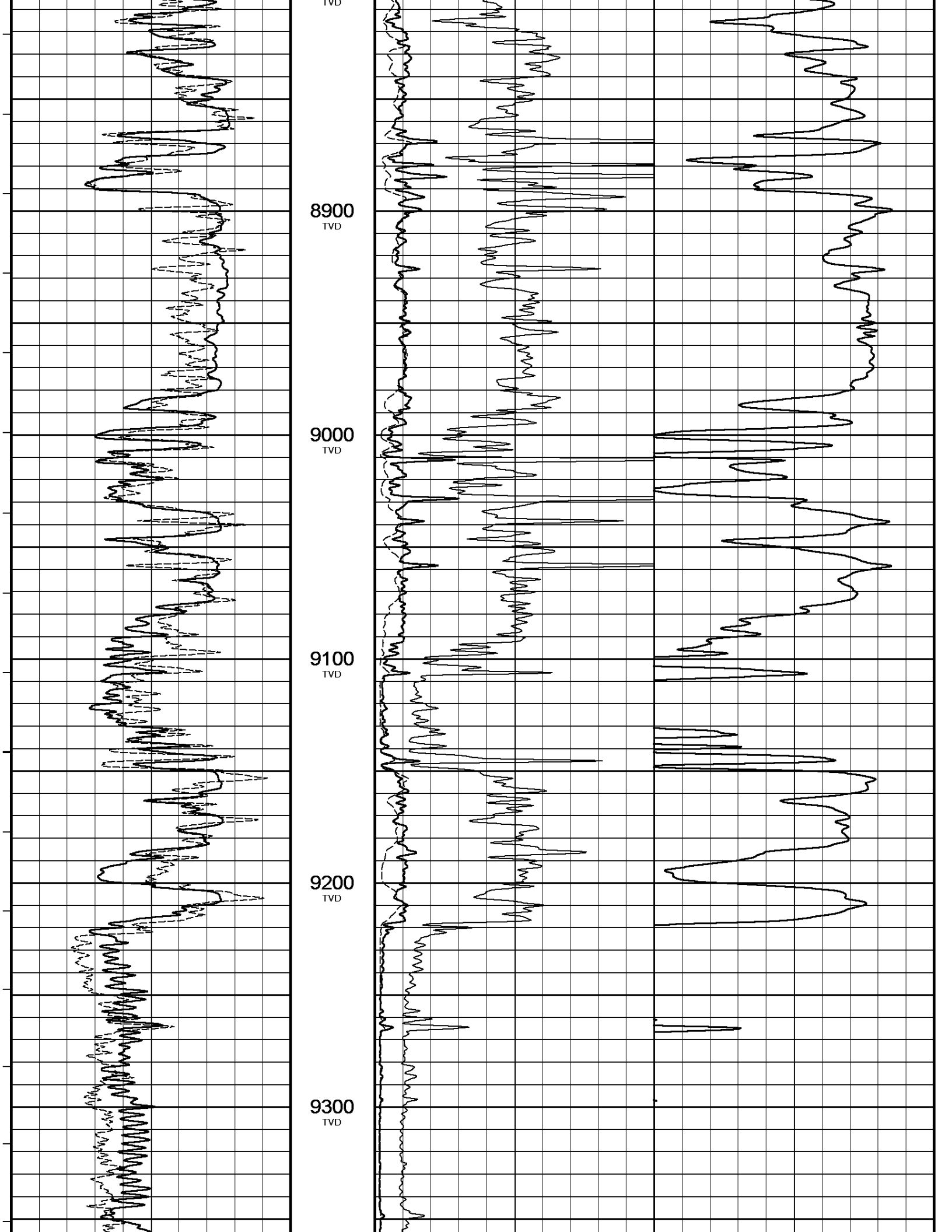
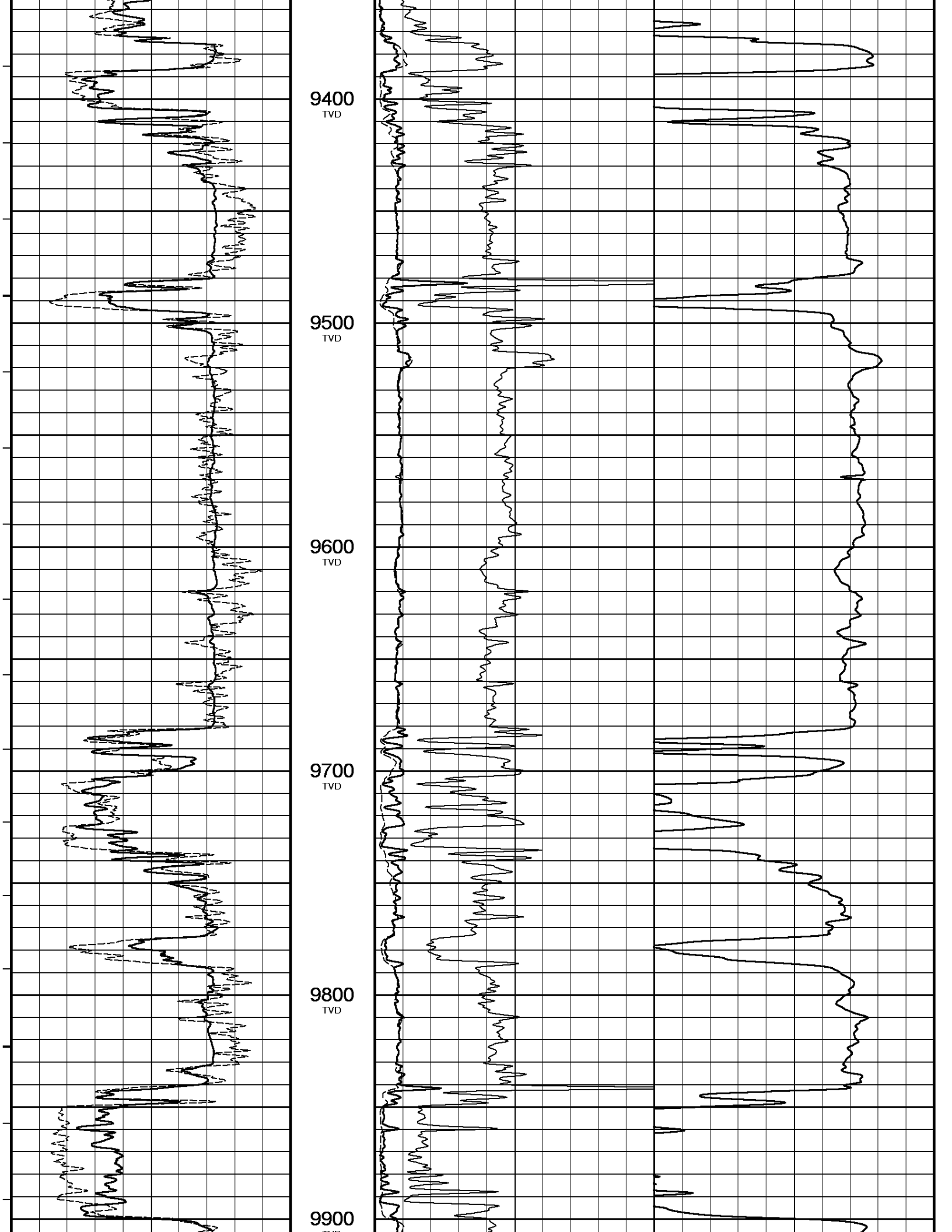
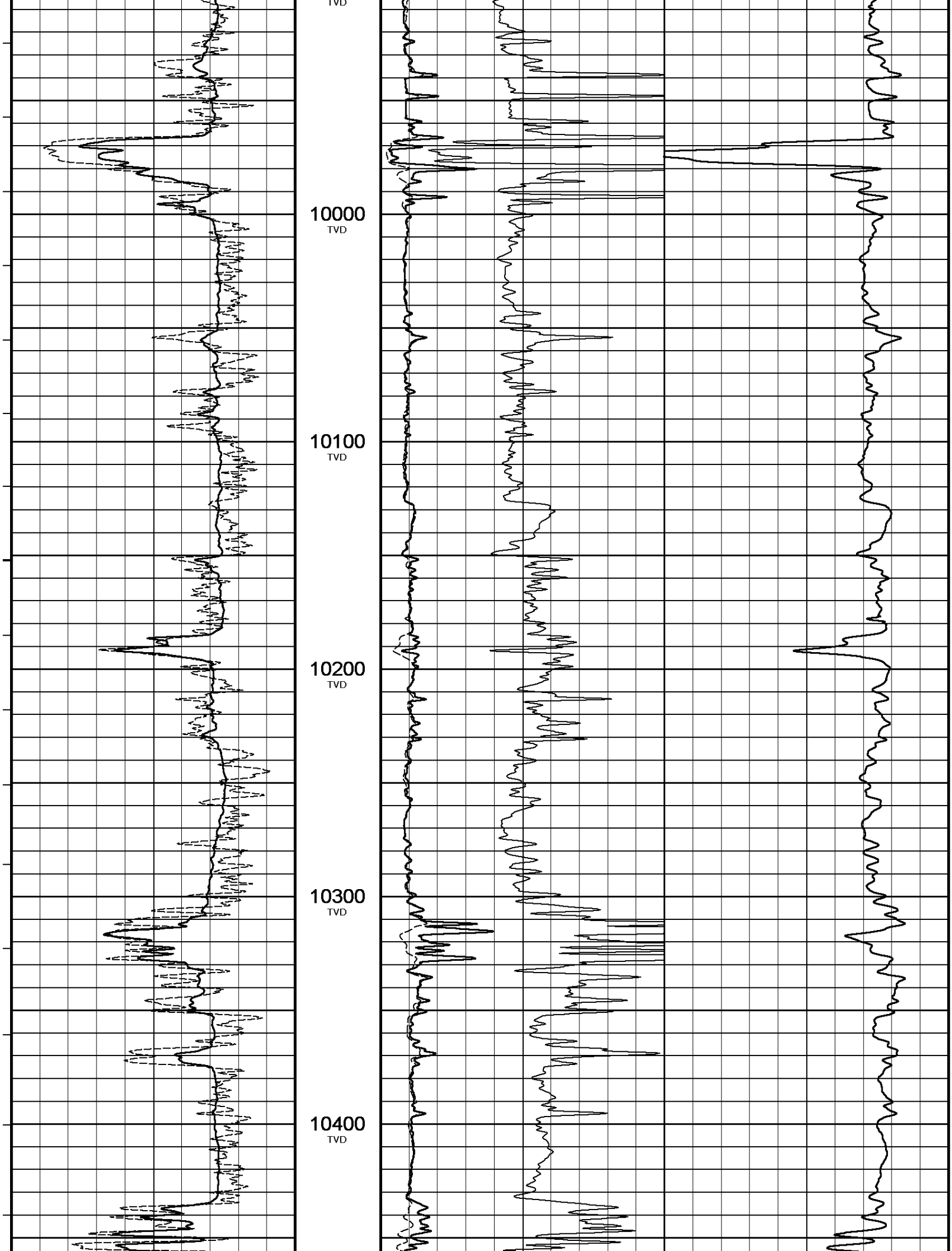
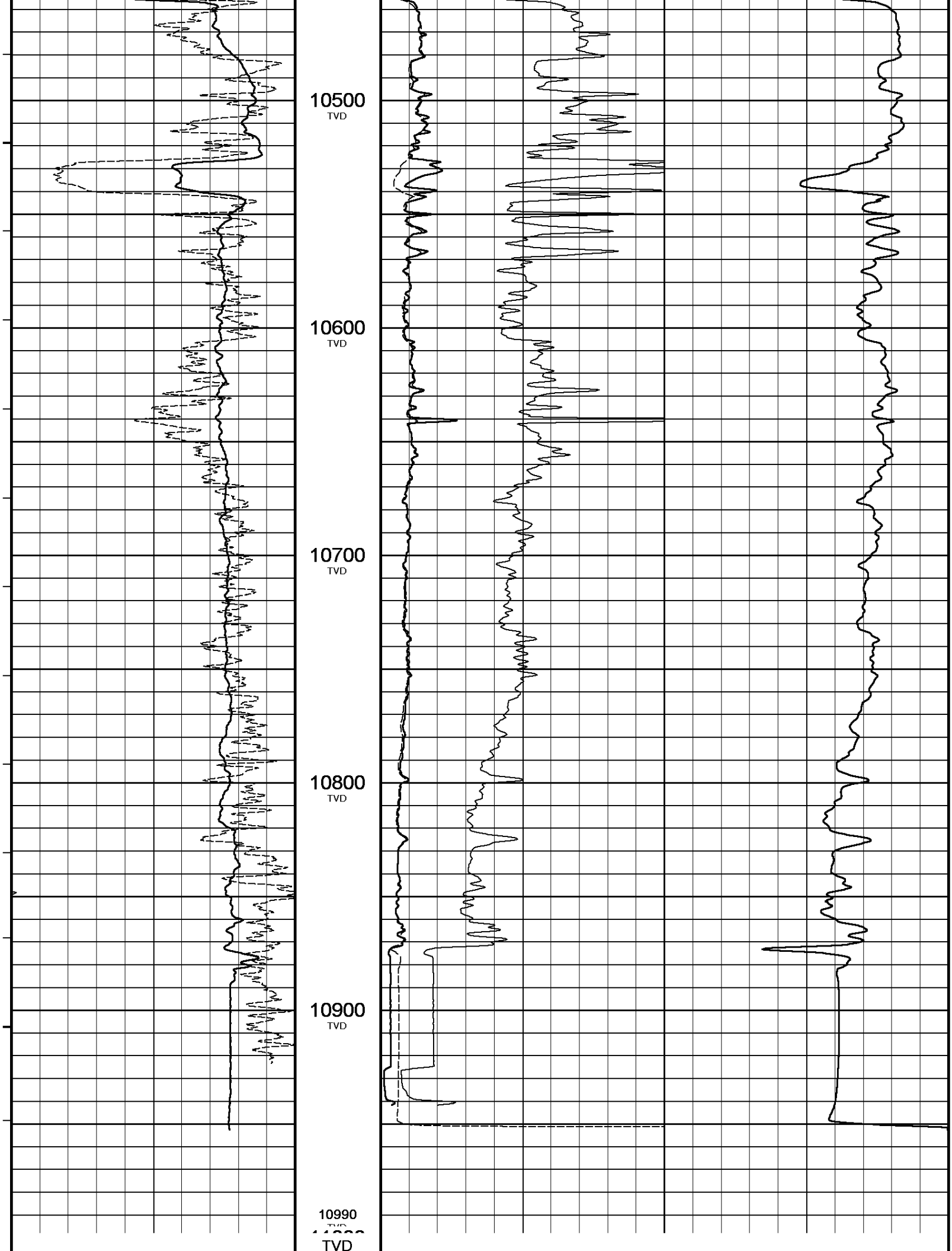
8400
TVD
8500
TVD
8600
TVD
8700
TVD
8800


8900
TVD
9000
TVD
9100
TVD
9200
TVD
9300
TVD


9400
TVD
9500
TVD
9600
TVD
9700
TVD
9800
TVD
9900


10000
TVD
10100
TVD
10200
TVD
10300
TVD
10400
TVD


10500
TVD
10600
TVD
10700
TVD
10800
TVD
10900
TVD
10990
TVD

in Feet

Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150
150 225 300

Spontaneous Potential
millivolts
− → | 20 | ← +

Shallow FE
ohm metres
0 5 10

Deep Conductivity
mmhos
4000 2000 0
0 -2000 -4000

Amplified Shallow FE
ohm metres
0 1 2

Deep Induction
ohm metres
0 5 10

Replay Scale 1:600

Depth Based Data - Maximum Sampling Increment 10.0cm
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Filename: E:\Logs\Data\Endeavor Natural Gas\Copy(3) of Triple Combo_001.dta
Recorded on 23-AUG-2009 16:04
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2 Inch Log TVD

5 Inch Main TVD

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 23-AUG-2009 20:06
Filename: E:\Logs\Data\Endeavor Natural Gas\Copy of Main Log.dta
Recorded on 23-AUG-2009 16:04
System Versions: Plotted with 8.05.0177

TVD in Feet

Timing Marks
every 60.0 sec

Gamma Ray
API
0 75 150
150 225 300

Borehole Temp in deg F

Spontaneous Potential
millivolts
− → | 20 | ← +

HVI every 10 cu ft

Shallow FE
ohm metres
0.20 1 10 100 1000 2000

Near Medium Induction
ohm metres
0.20 1 10 100 1000 2000

Far Medium Induction
ohm metres
0.20 1 10 100 1000 2000

Far Induction
ohm metres
0.20 1 10 100 1000 2000

Deepest Induction
ohm metres
0.20 1 10 100 1000 2000

Differential Caliper
inches
-20 -10 0 10 20

Density Correction
grams/cc
-0.90 -0.40 0.10

Annular Integral every 10 cu ft

Bit Size
inches
-13.25 -3.25 6.75 16.75 26.75

DST Uphole Tension
pounds
20000 10000 0
0 -10000 -20000

Apparent Water Res.
ohm metres
0 0.25 0.50

Sandstone Neutron Por.
percent
60 30 0

Sandstone Density Por.
percent
60 30 0

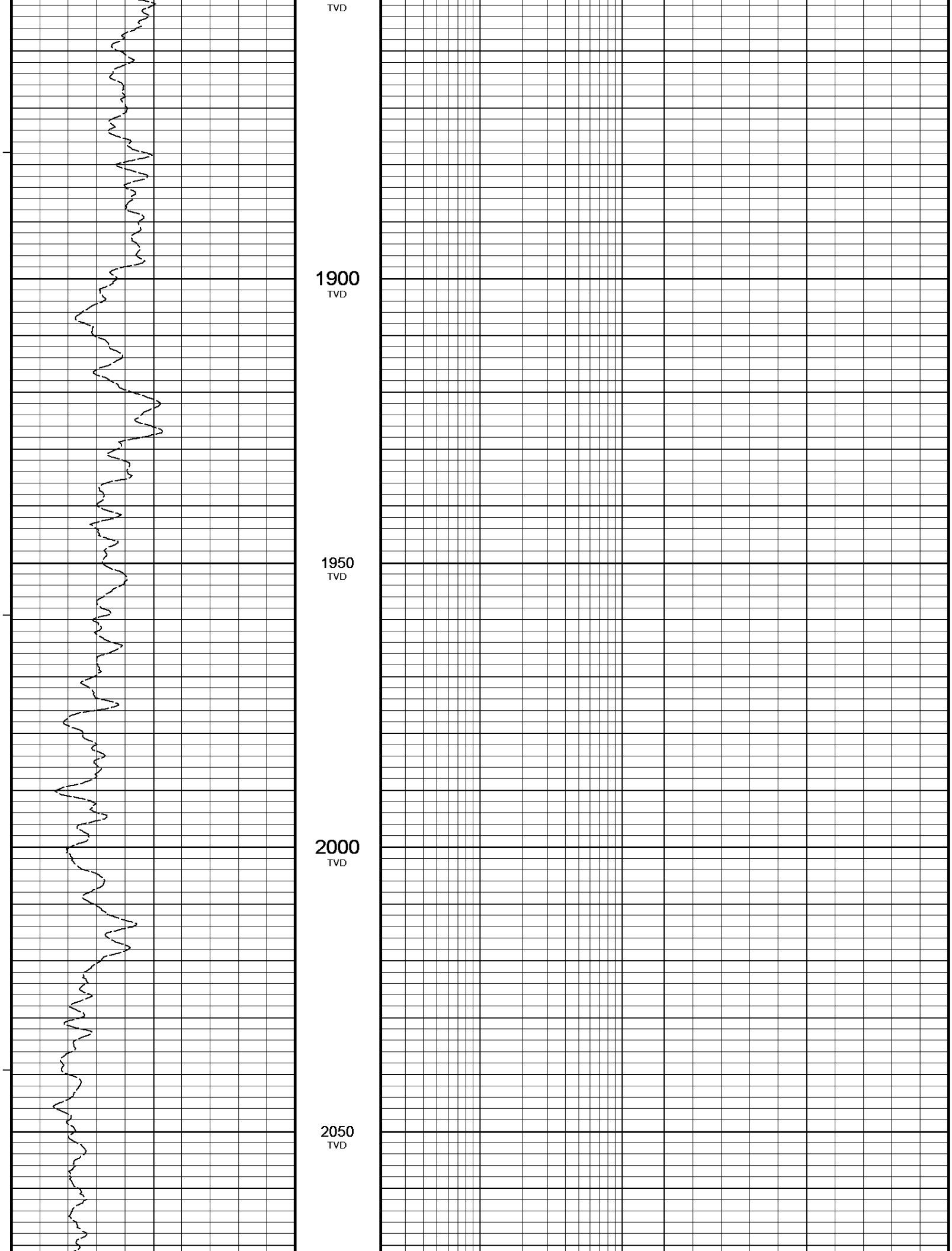
Replay Scale 1:240

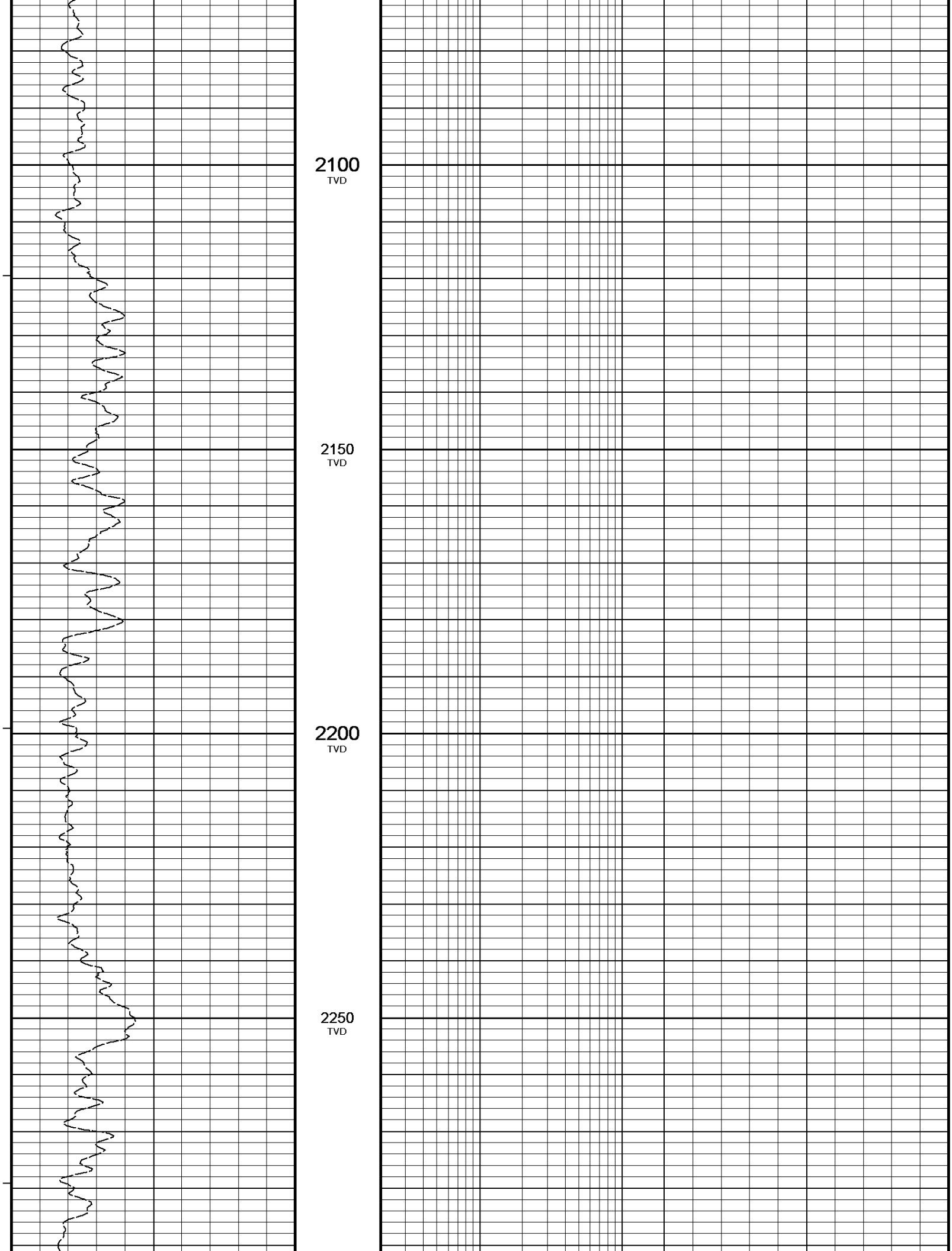
1712 TVD

1750 TVD

1800 TVD

1850


1900
TVD
1950
TVD
2000
TVD
2050
TVD


2100
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2150
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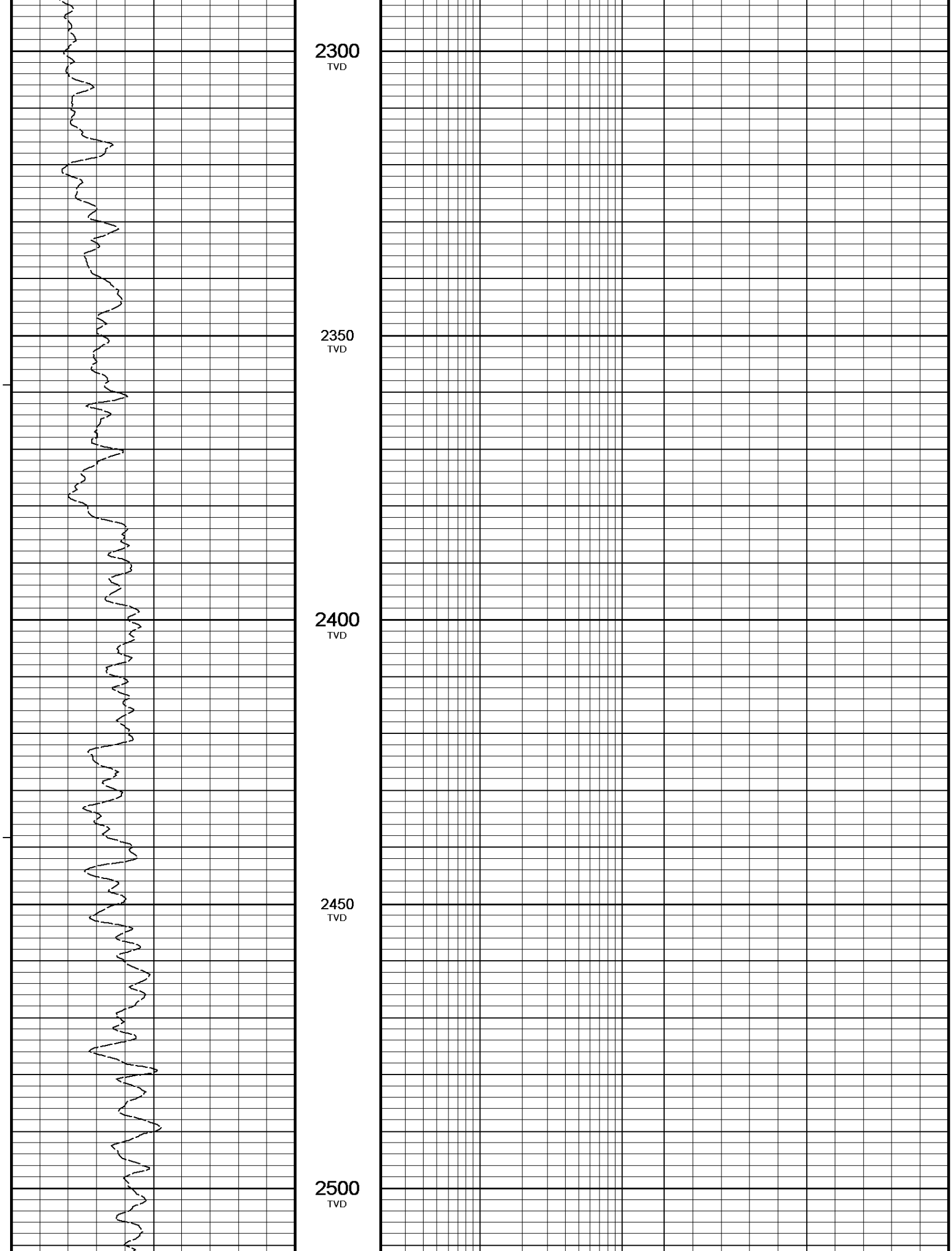
2200
TVD
2250
TVD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TVD
2350
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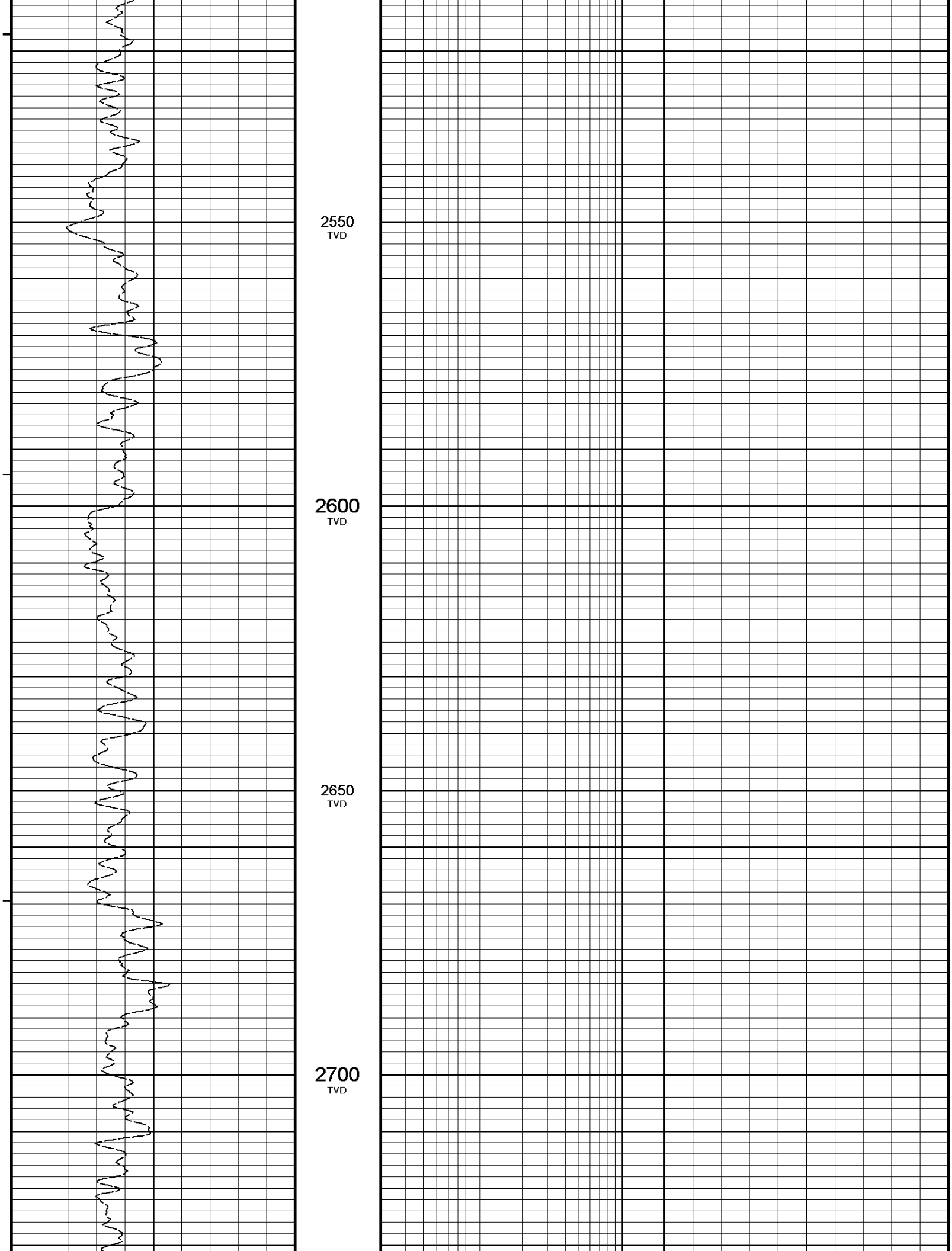
2400
TVD
2450
TVD
2500
TVD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2600
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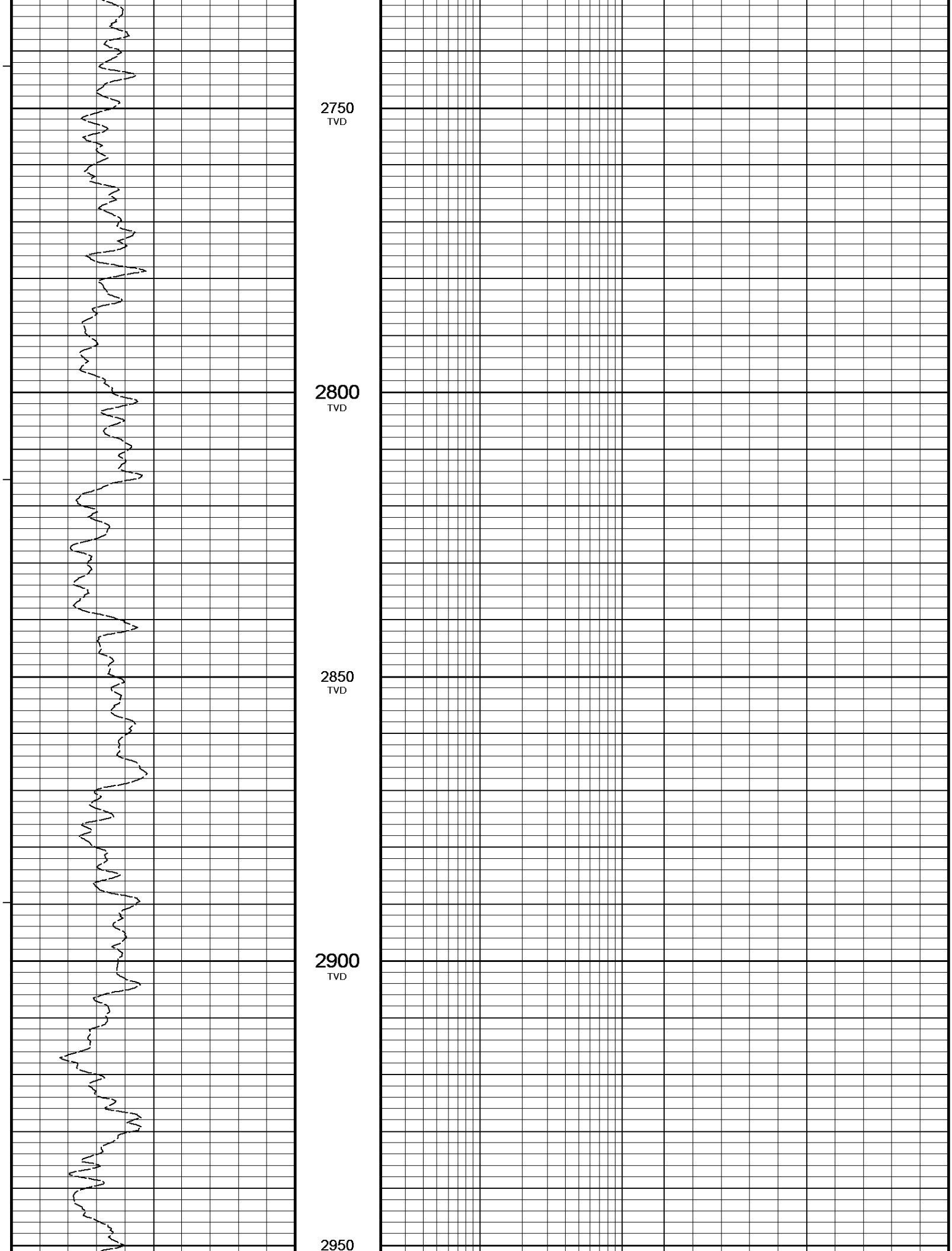
2650
TVD
2700
TVD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2800
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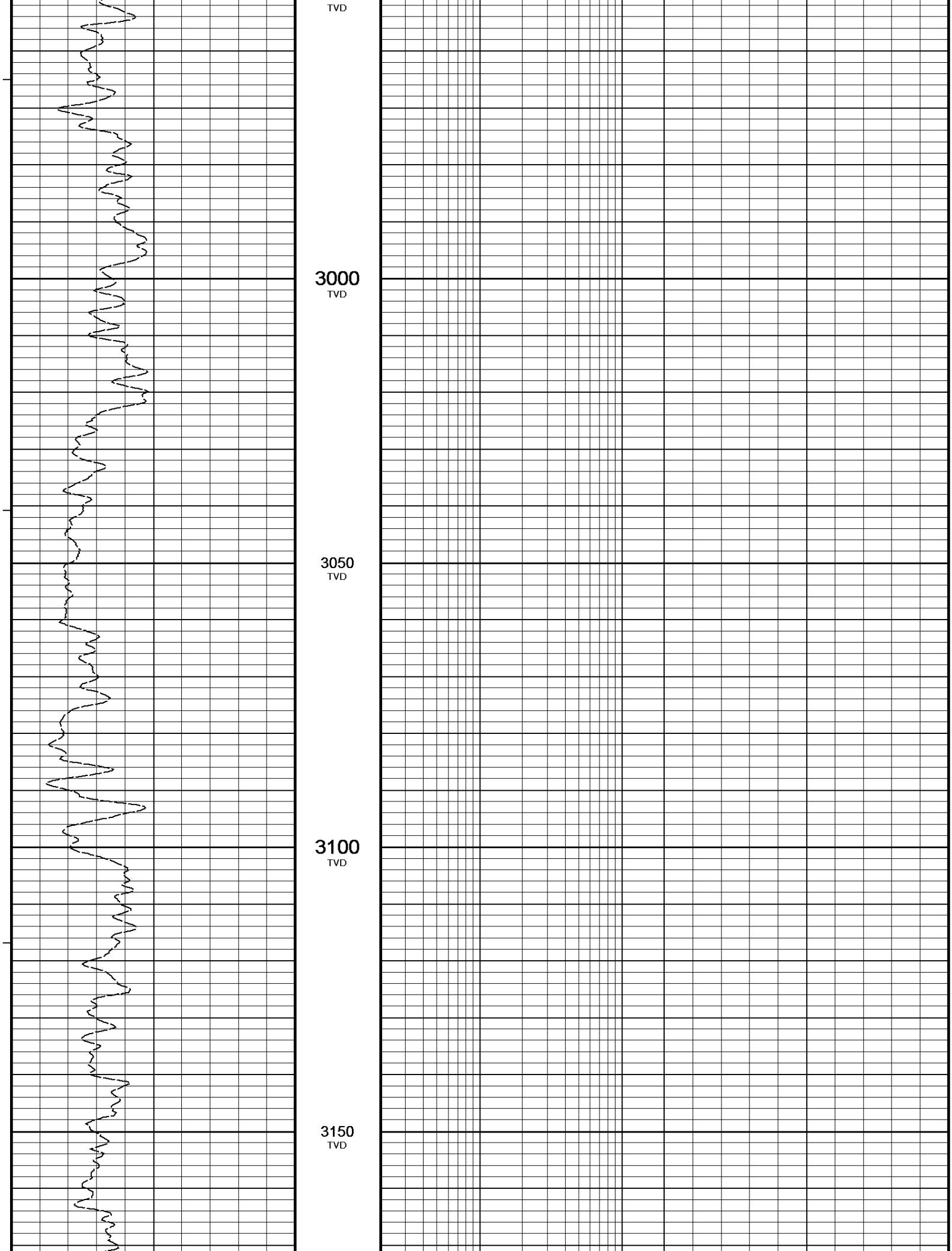
TVD
2900
TVD
2950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TVD
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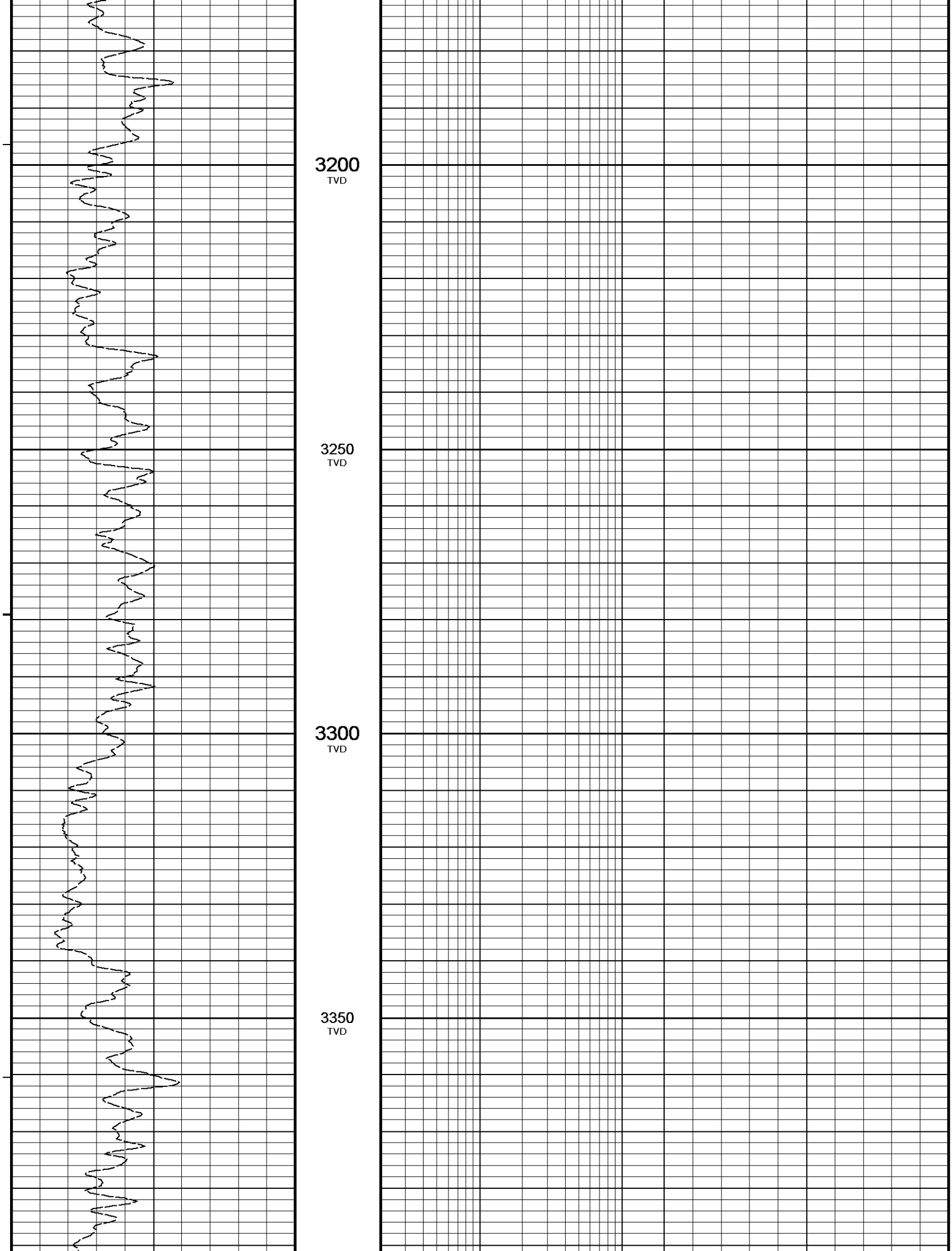
TVD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3250
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3300
TVD
3350
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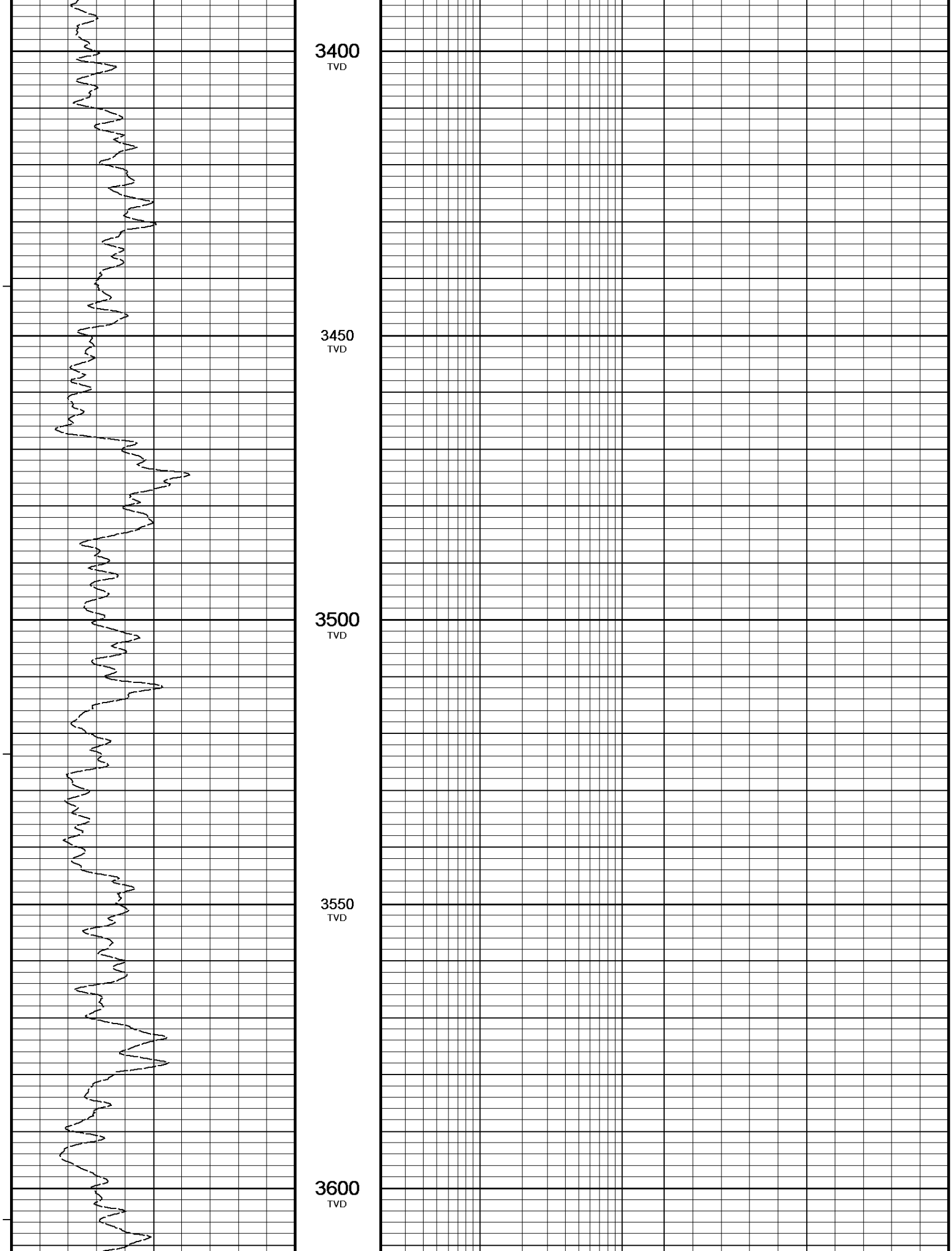
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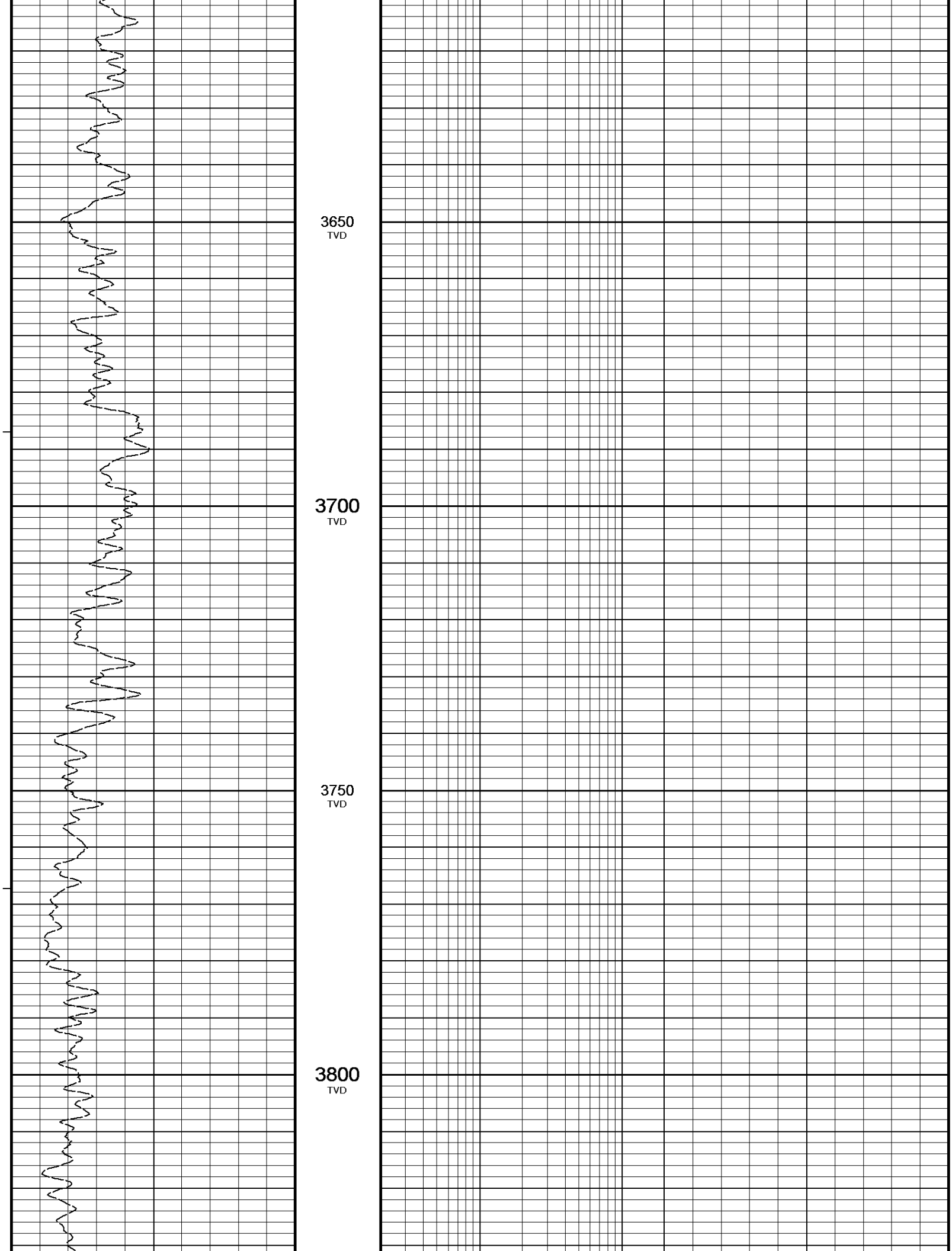
3500
TVD
3550
TVD
3600
TVD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3750
TVD
3800
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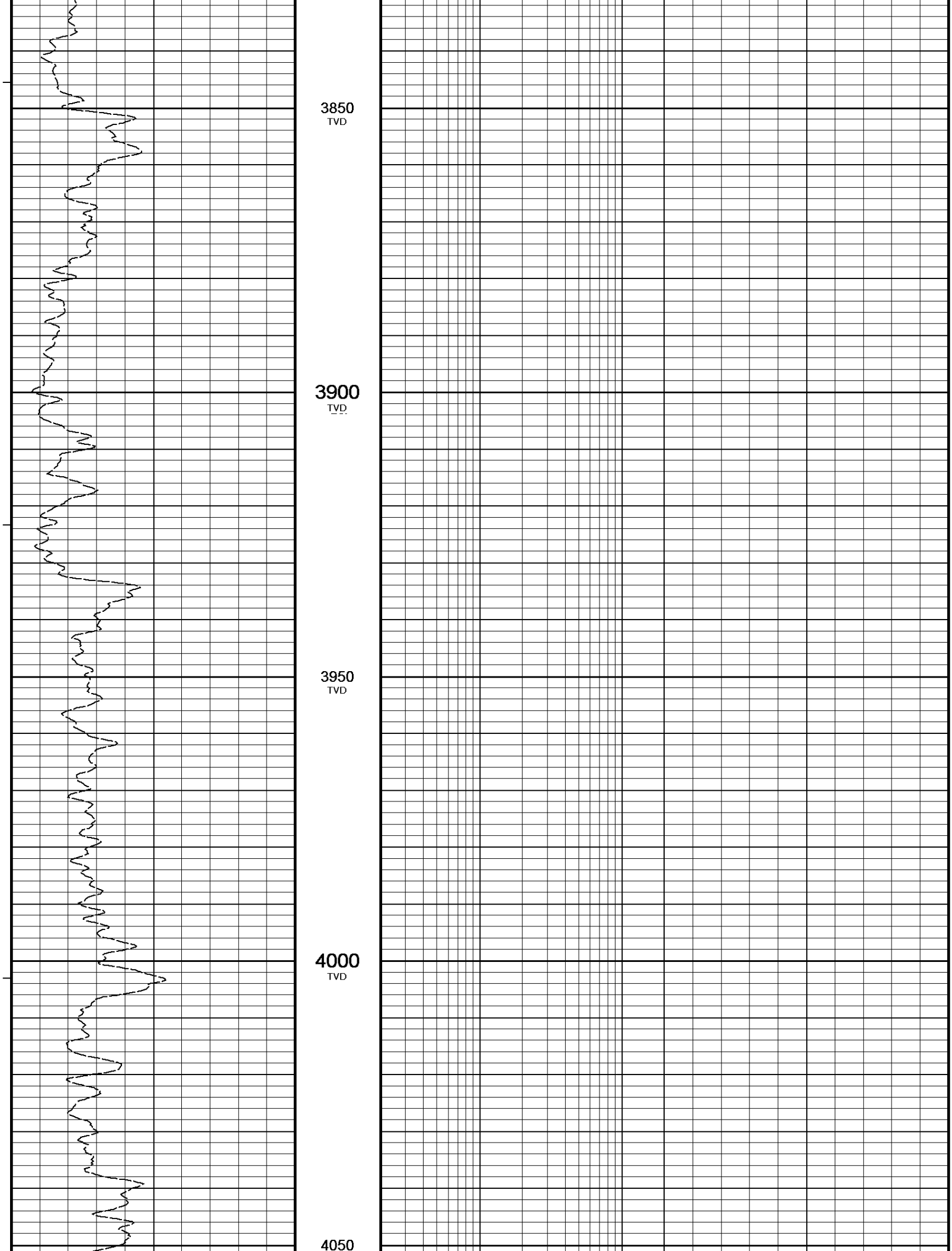
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4000
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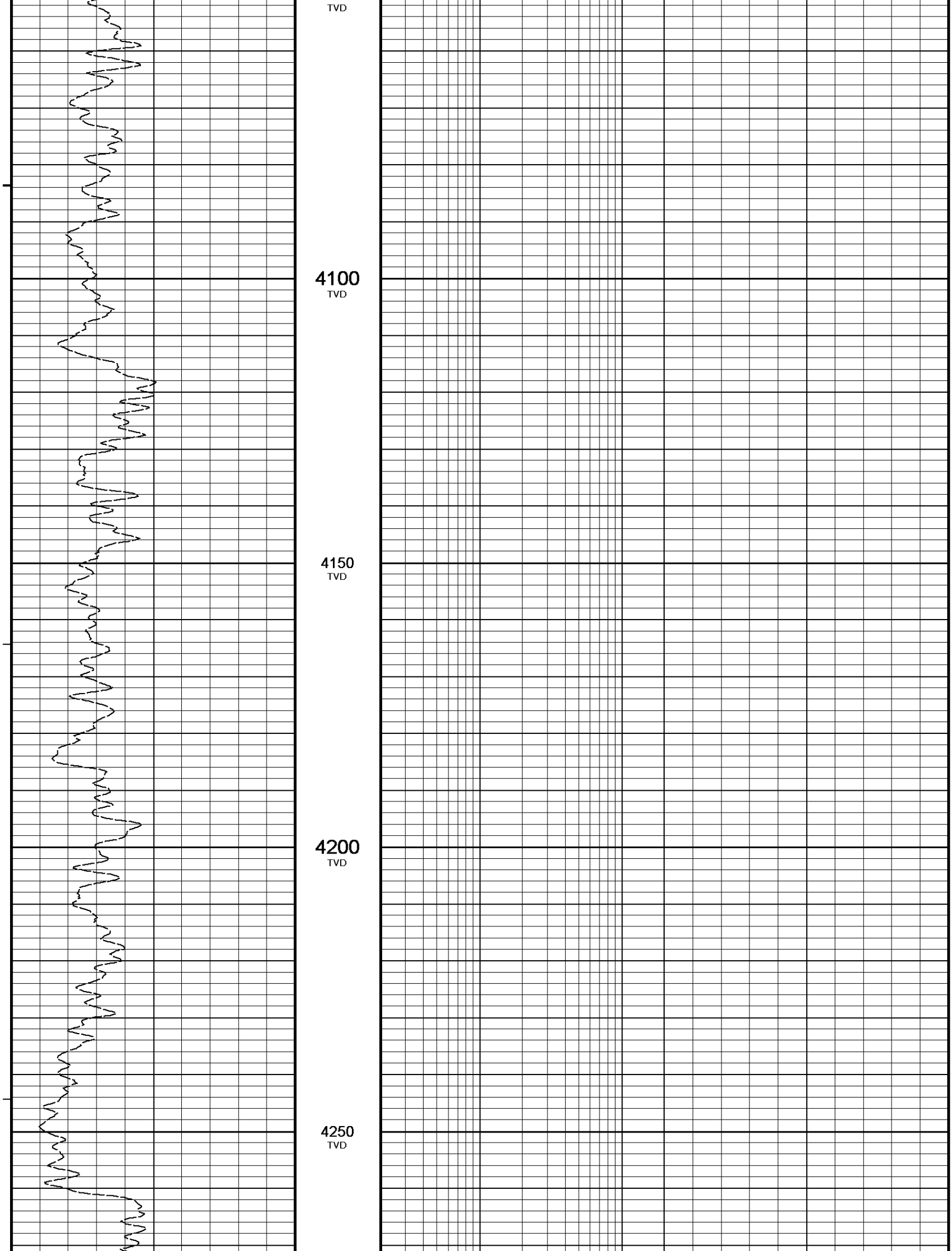
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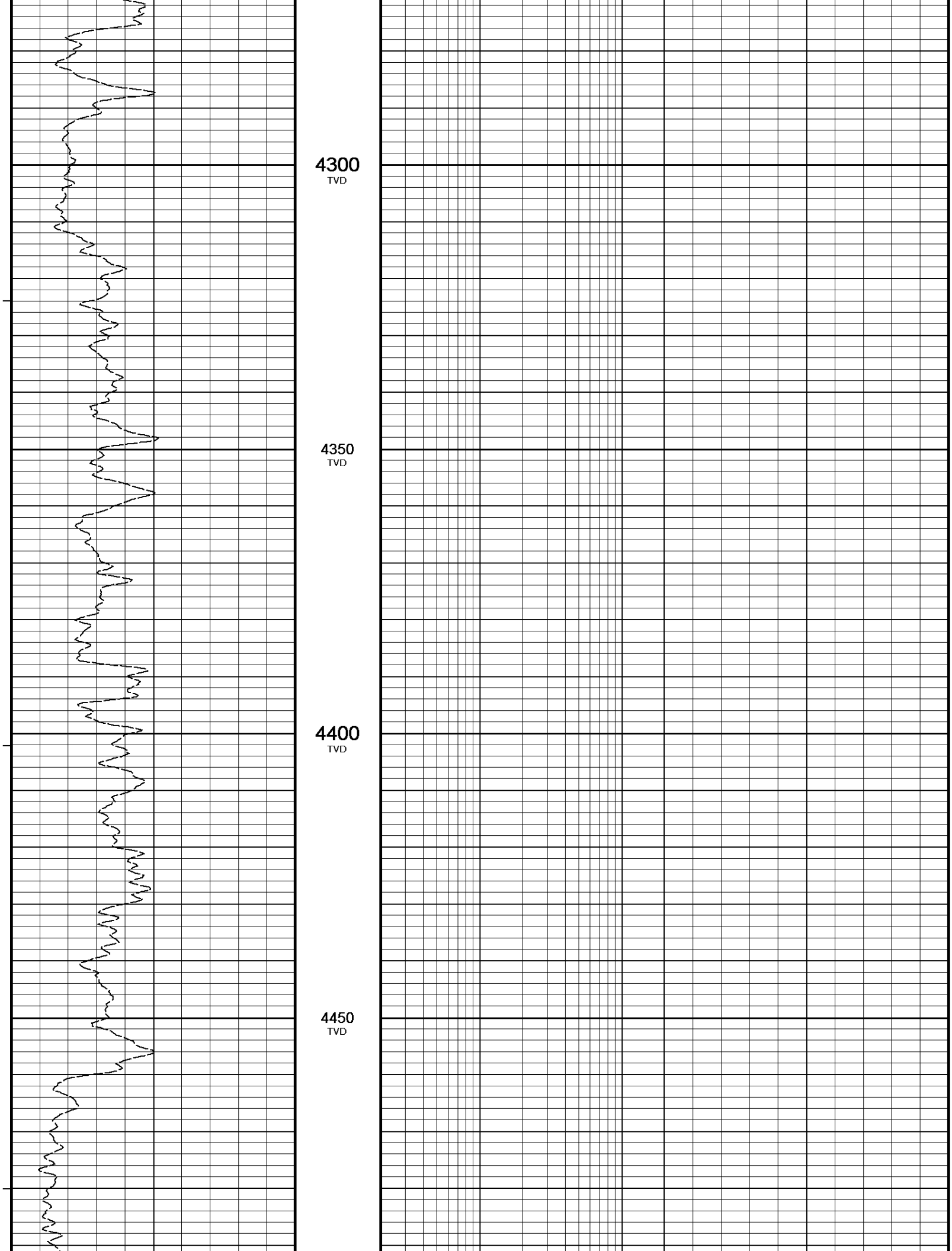
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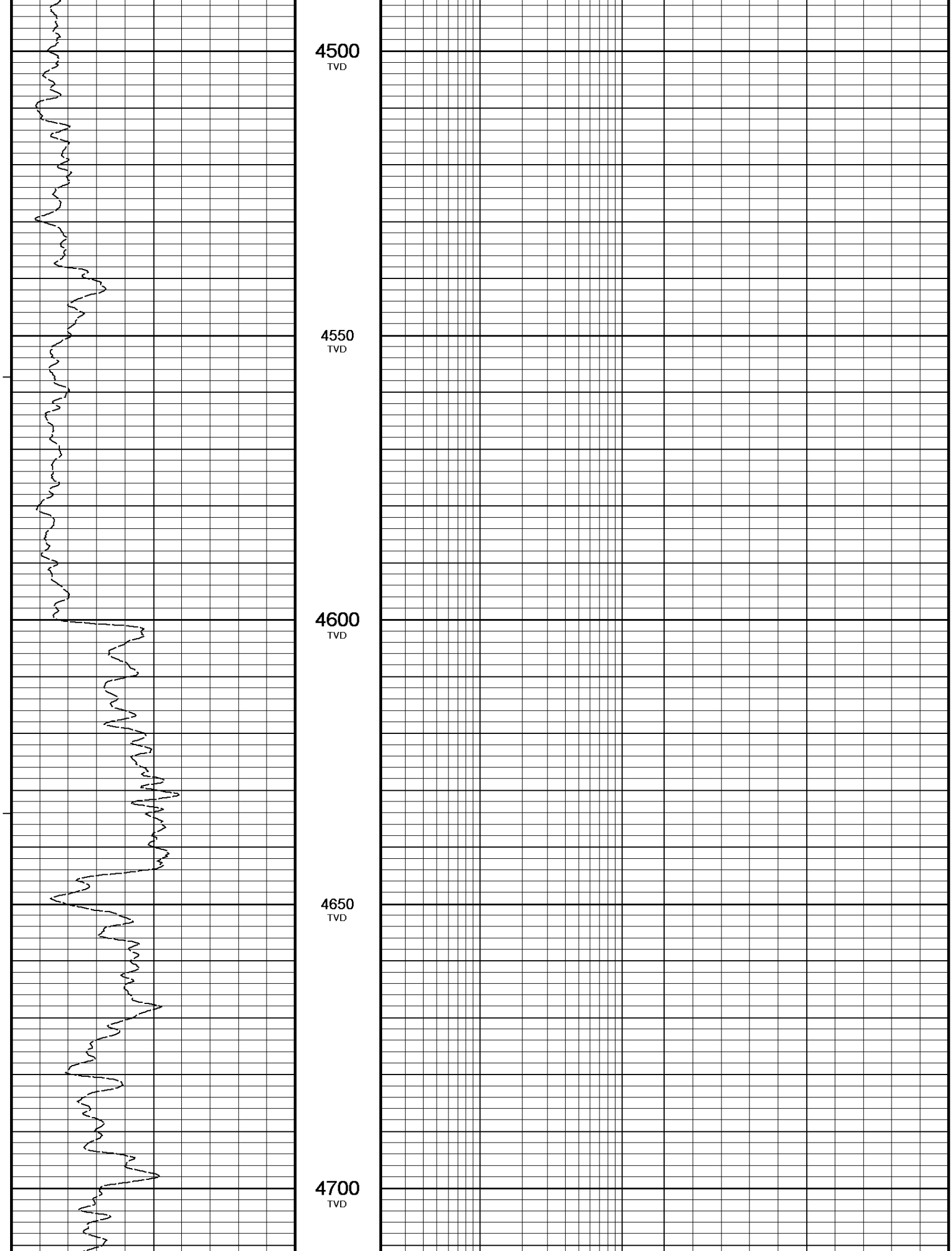
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4600
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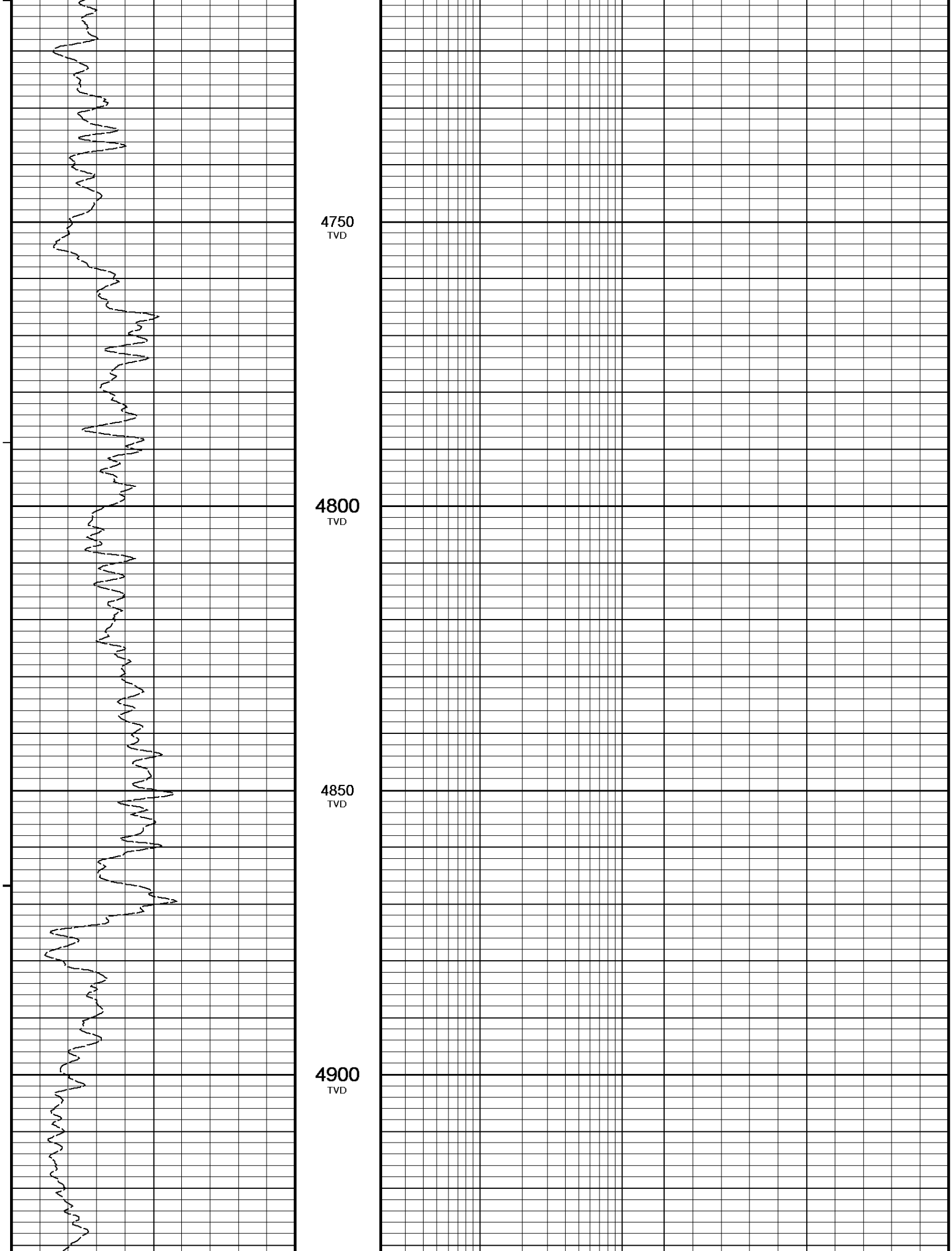
4650
TVD
4700
TVD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4900
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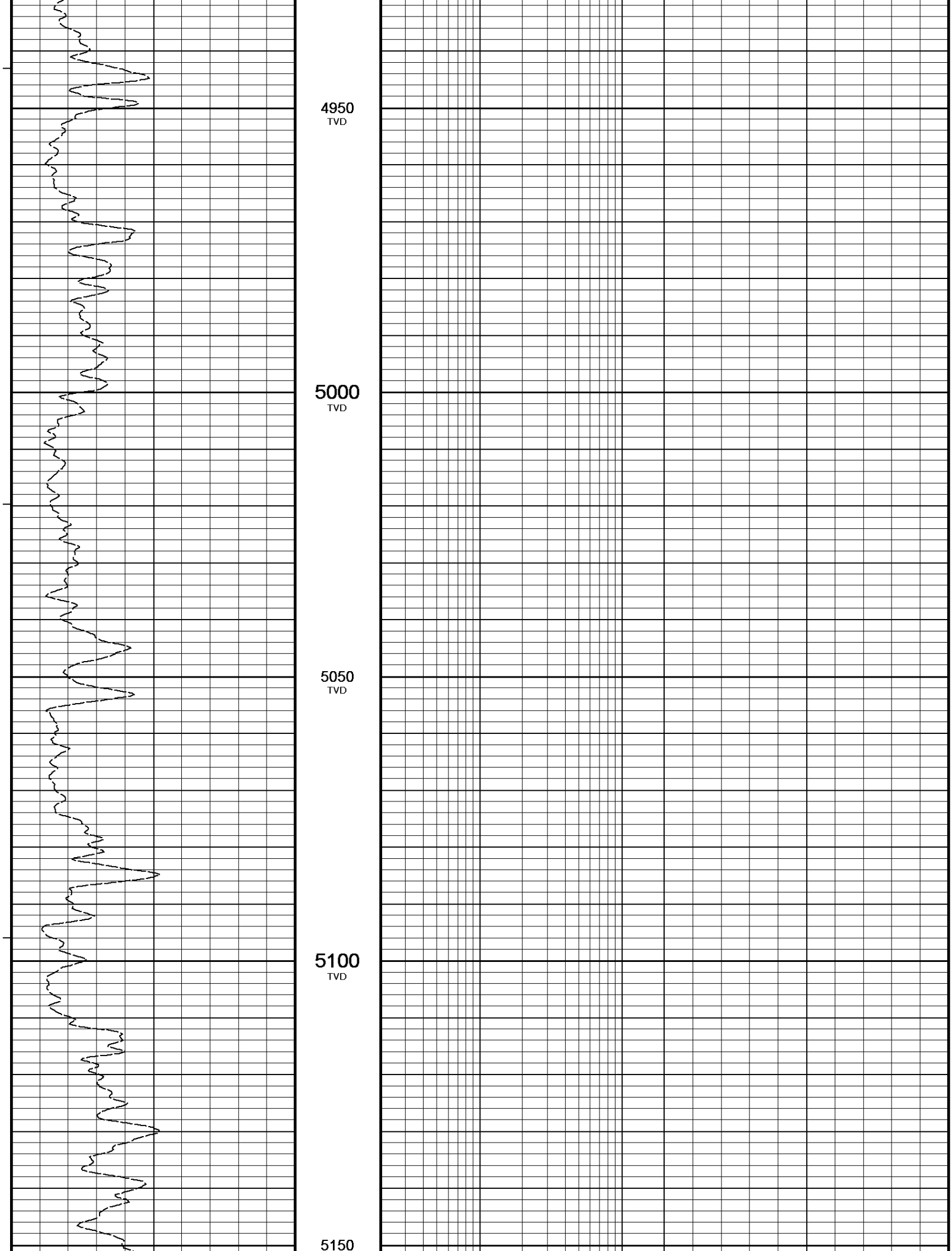
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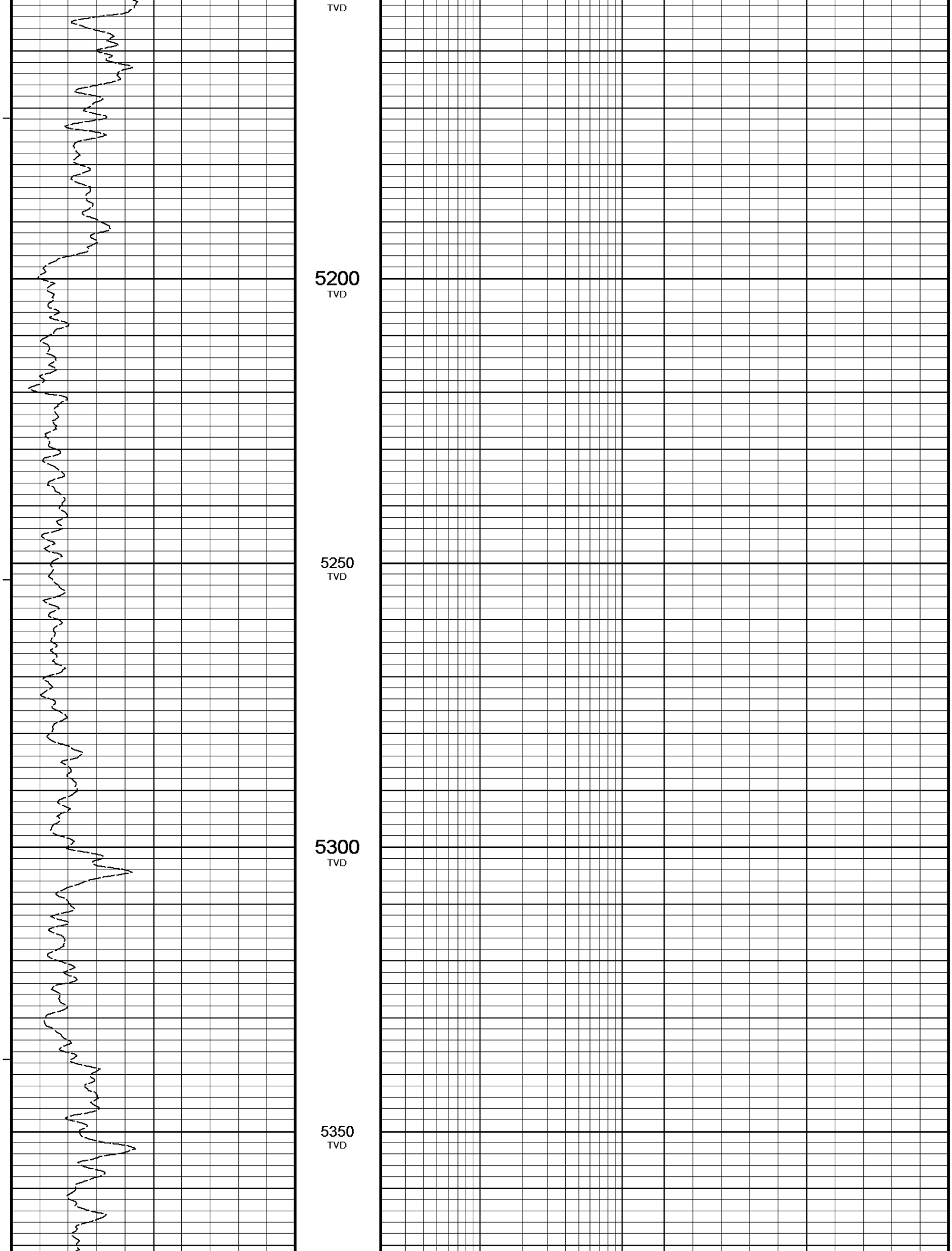
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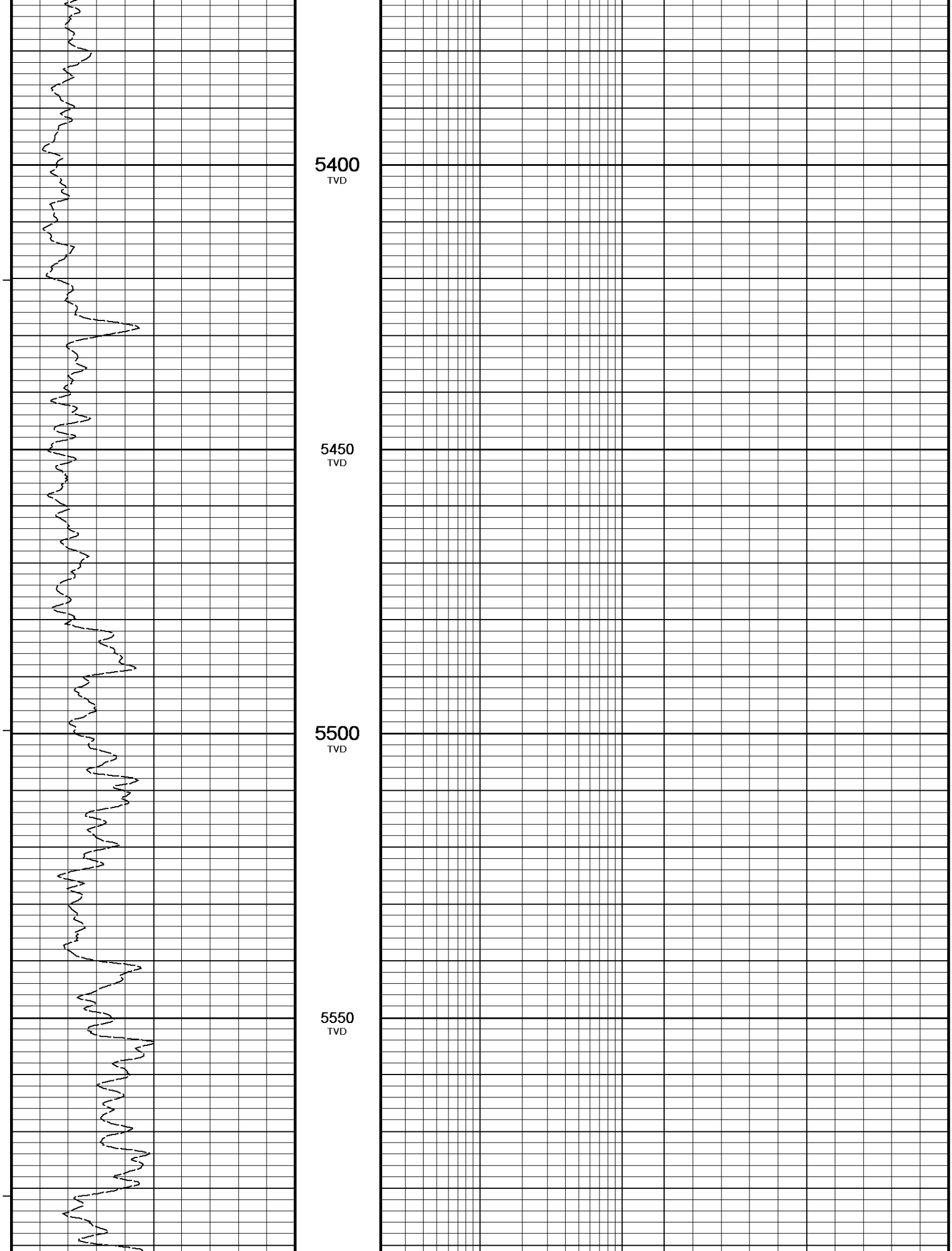
5400
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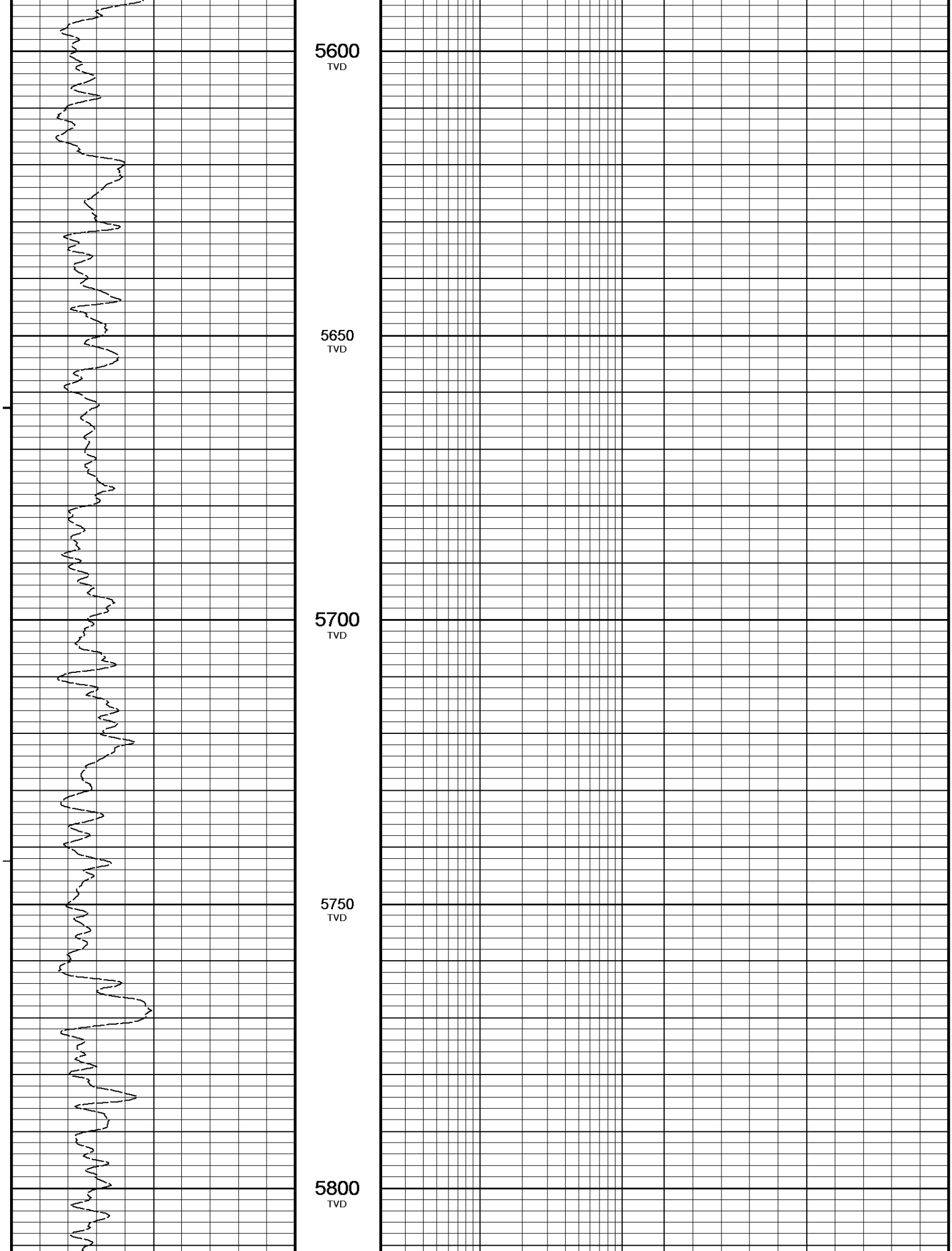
5600
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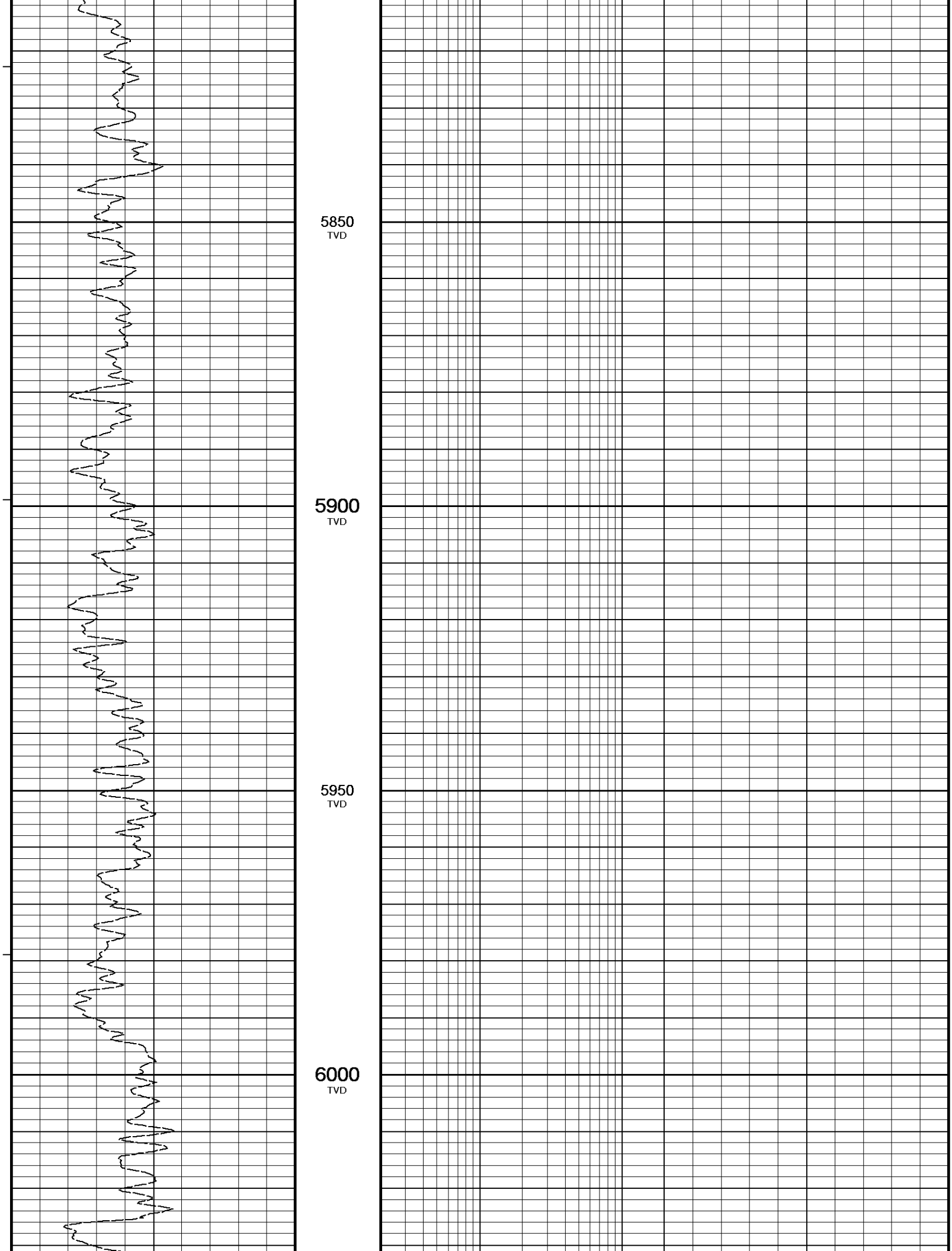
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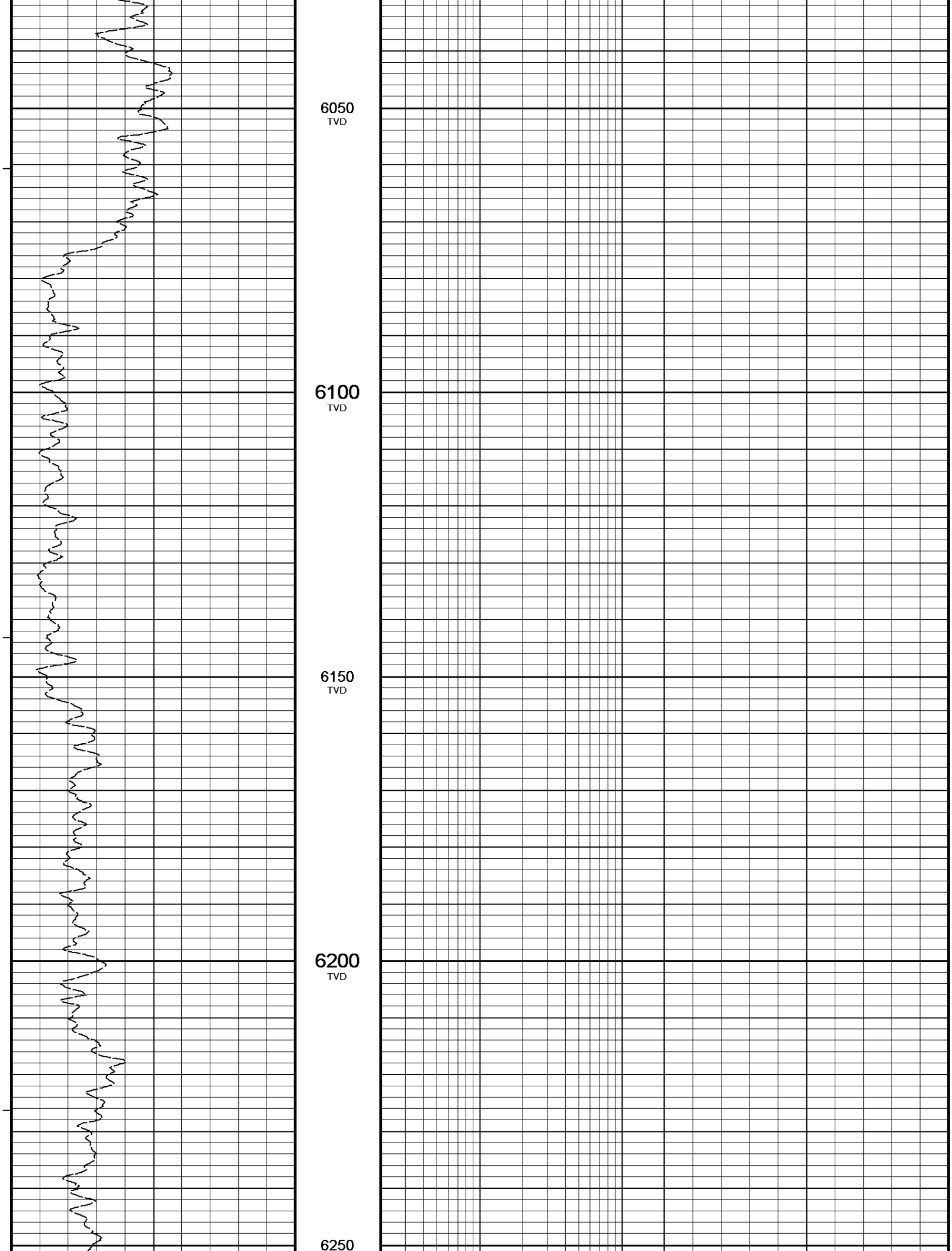
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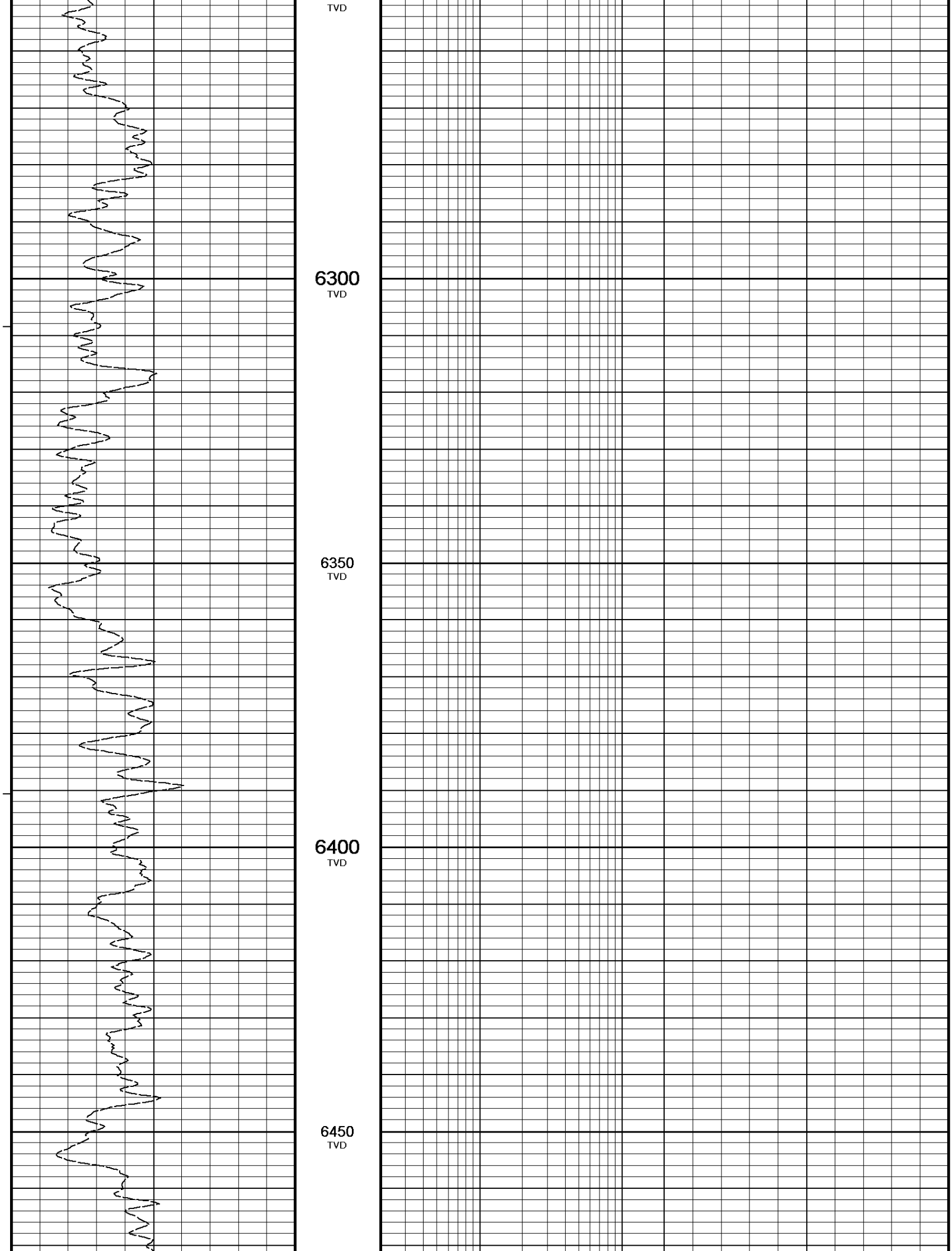
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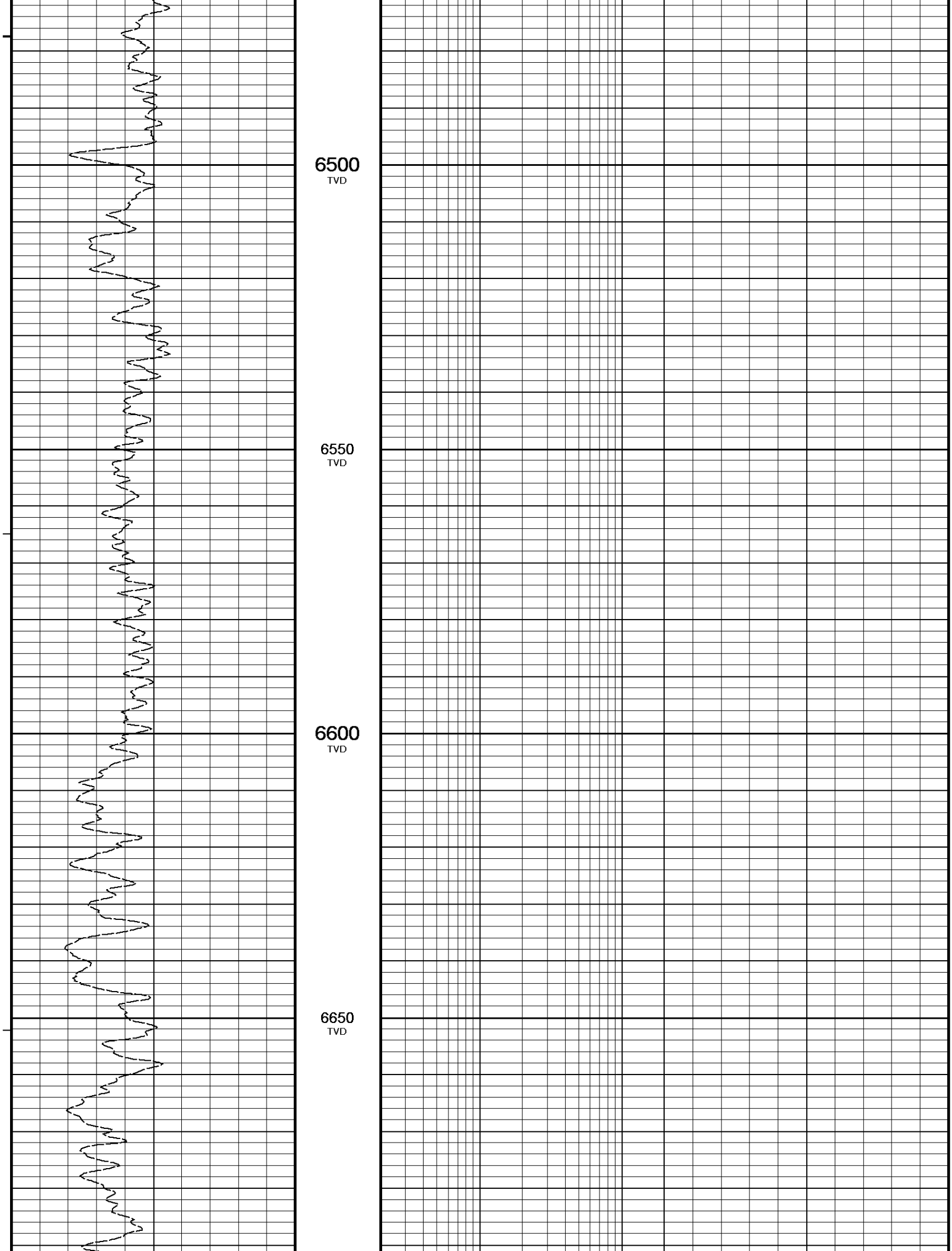
TVD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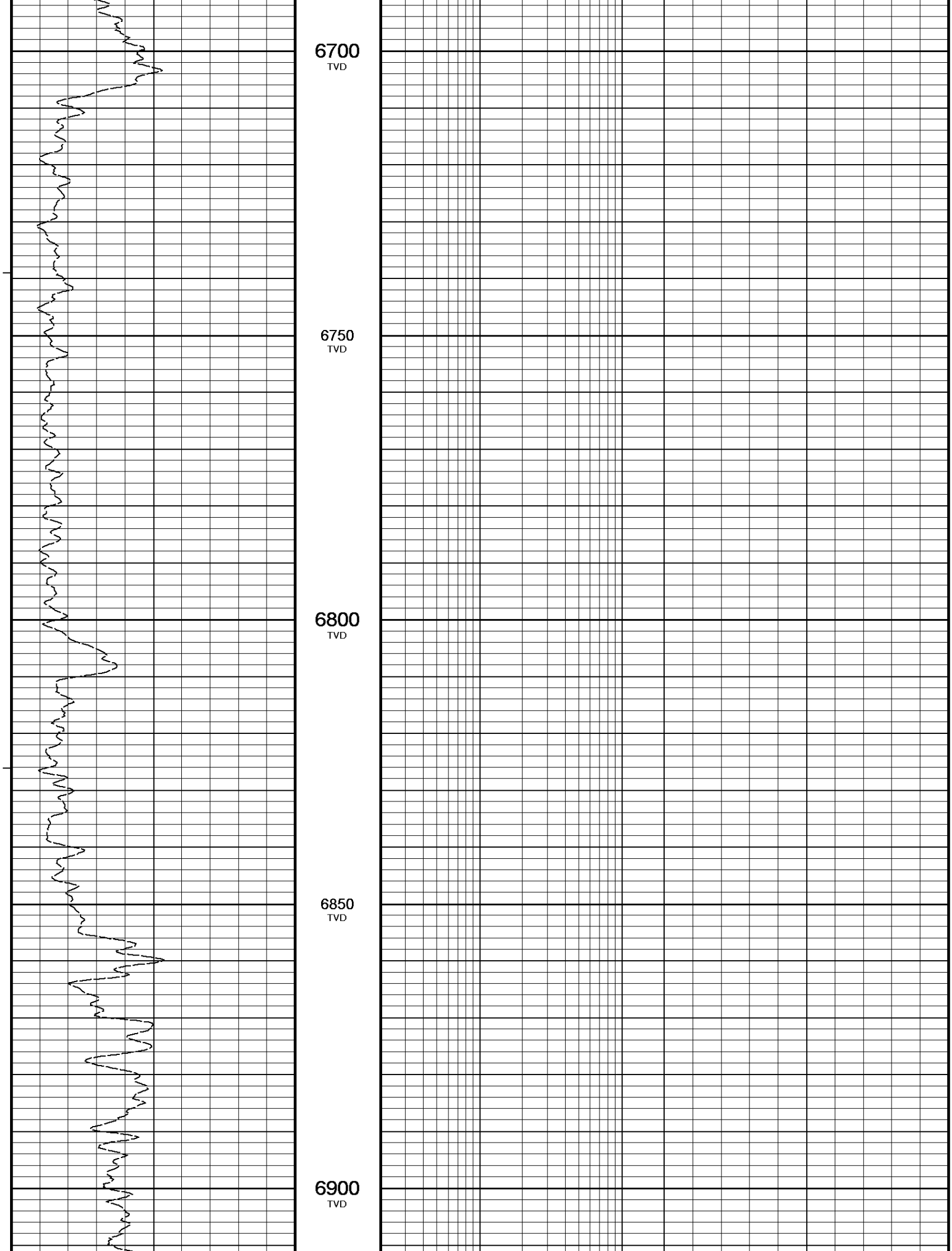
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6750
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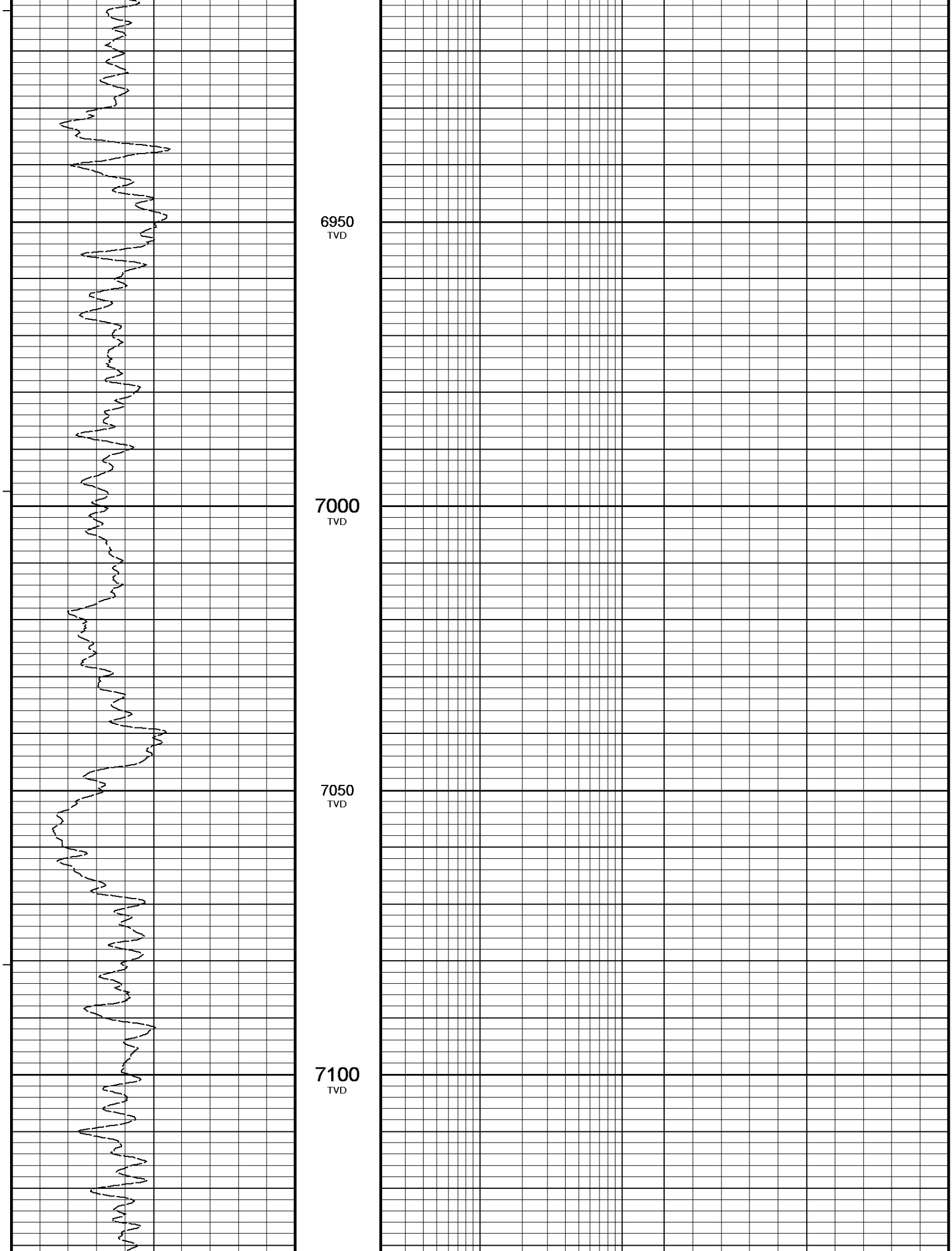
6800
TVD
6850
TVD
6900
TVD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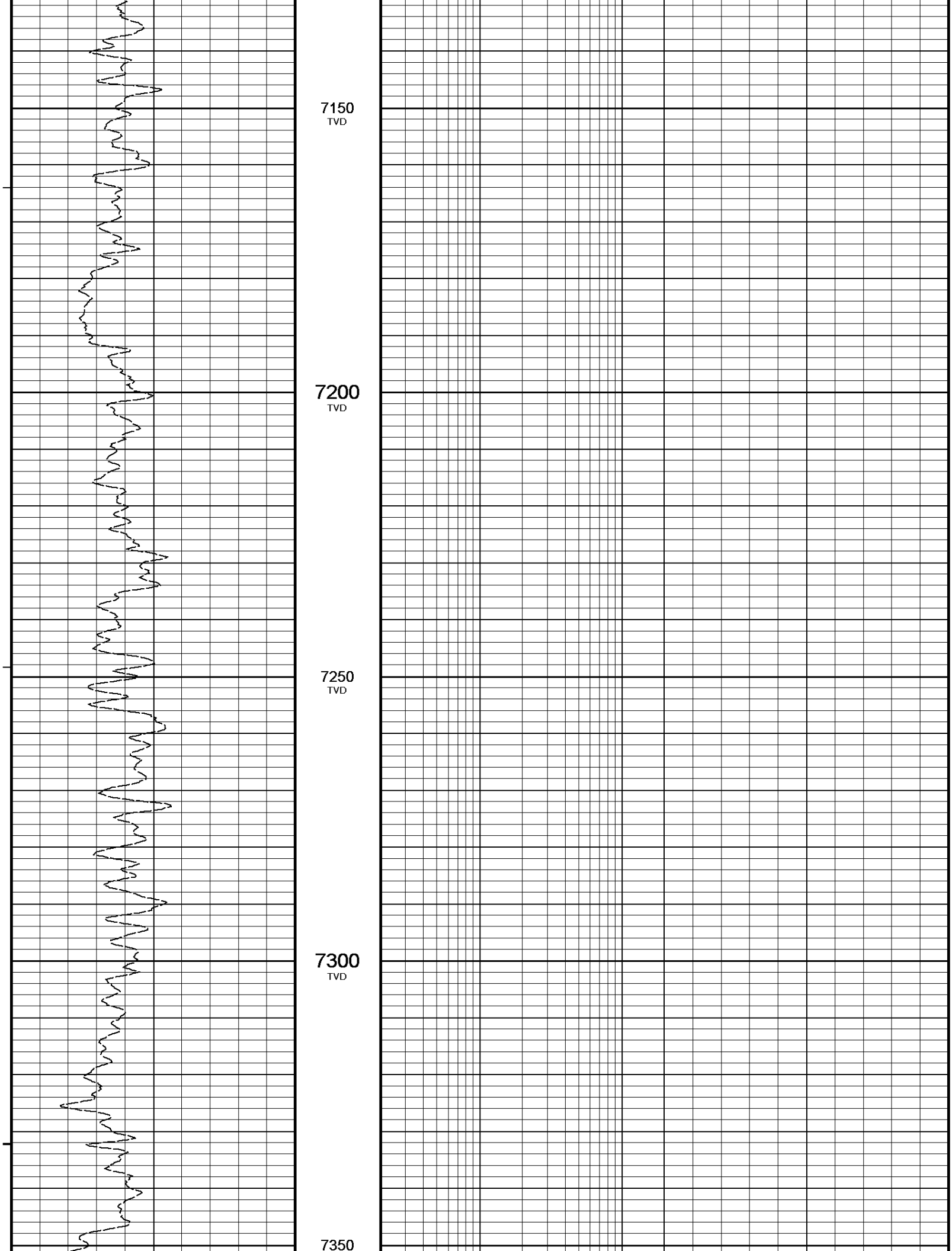
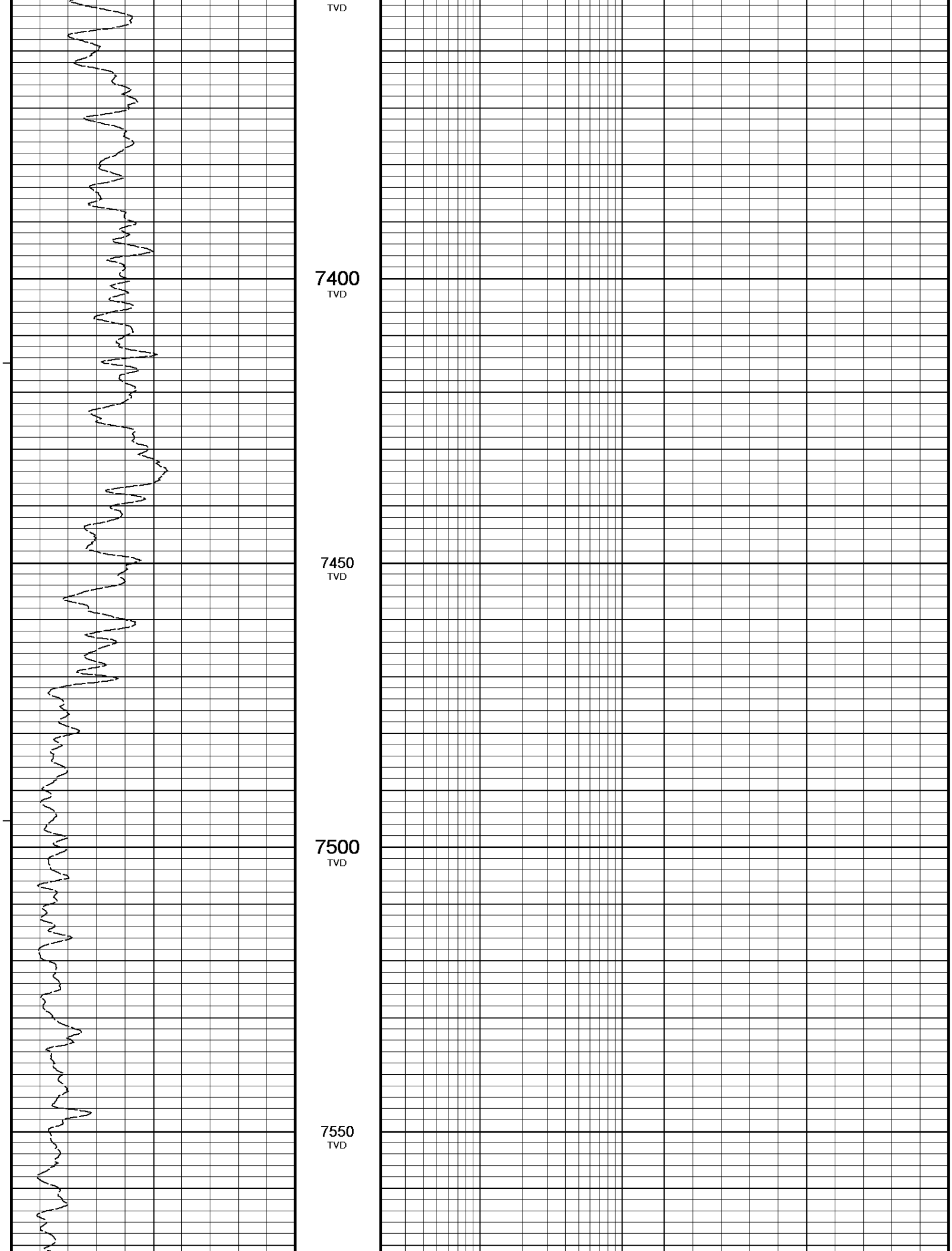
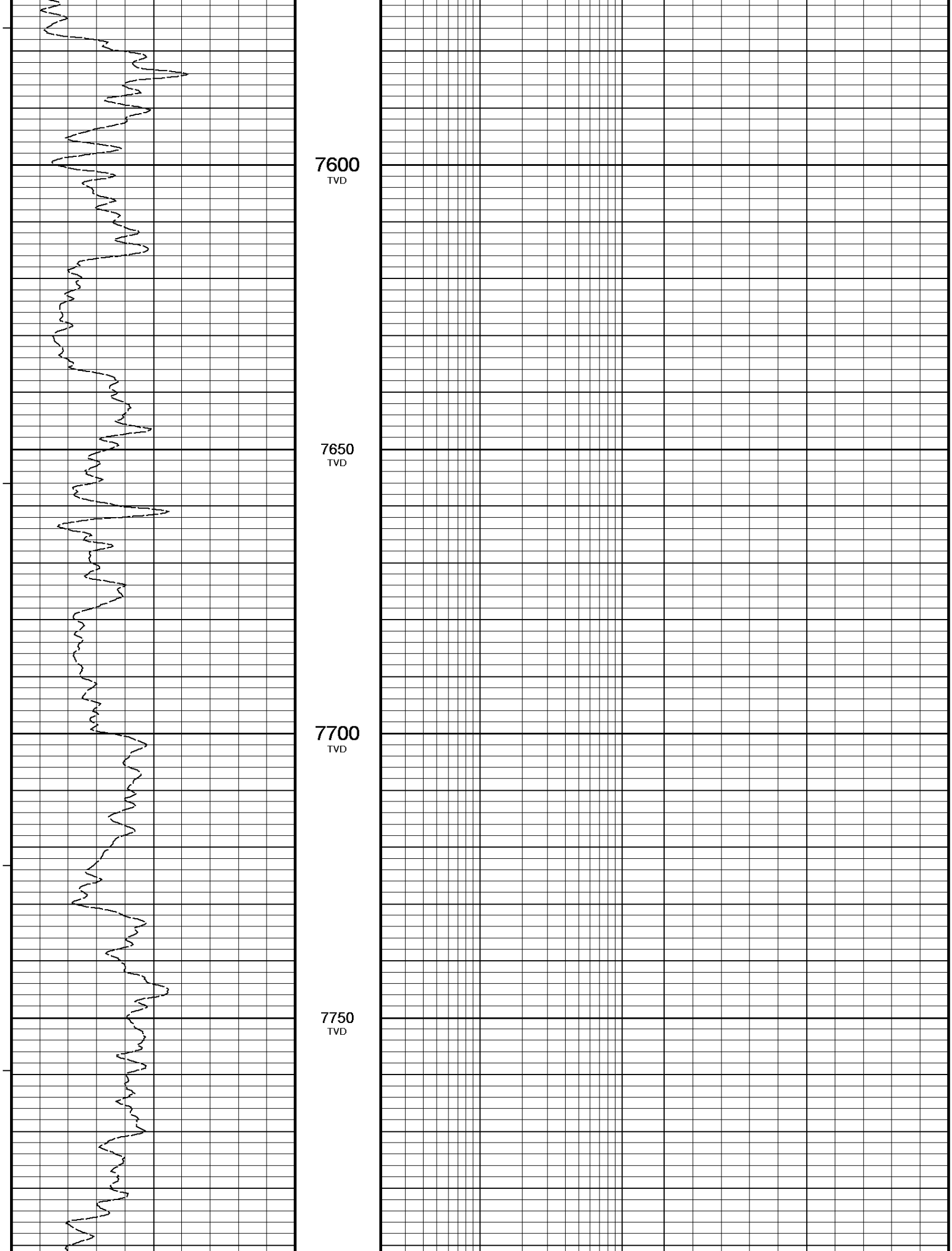
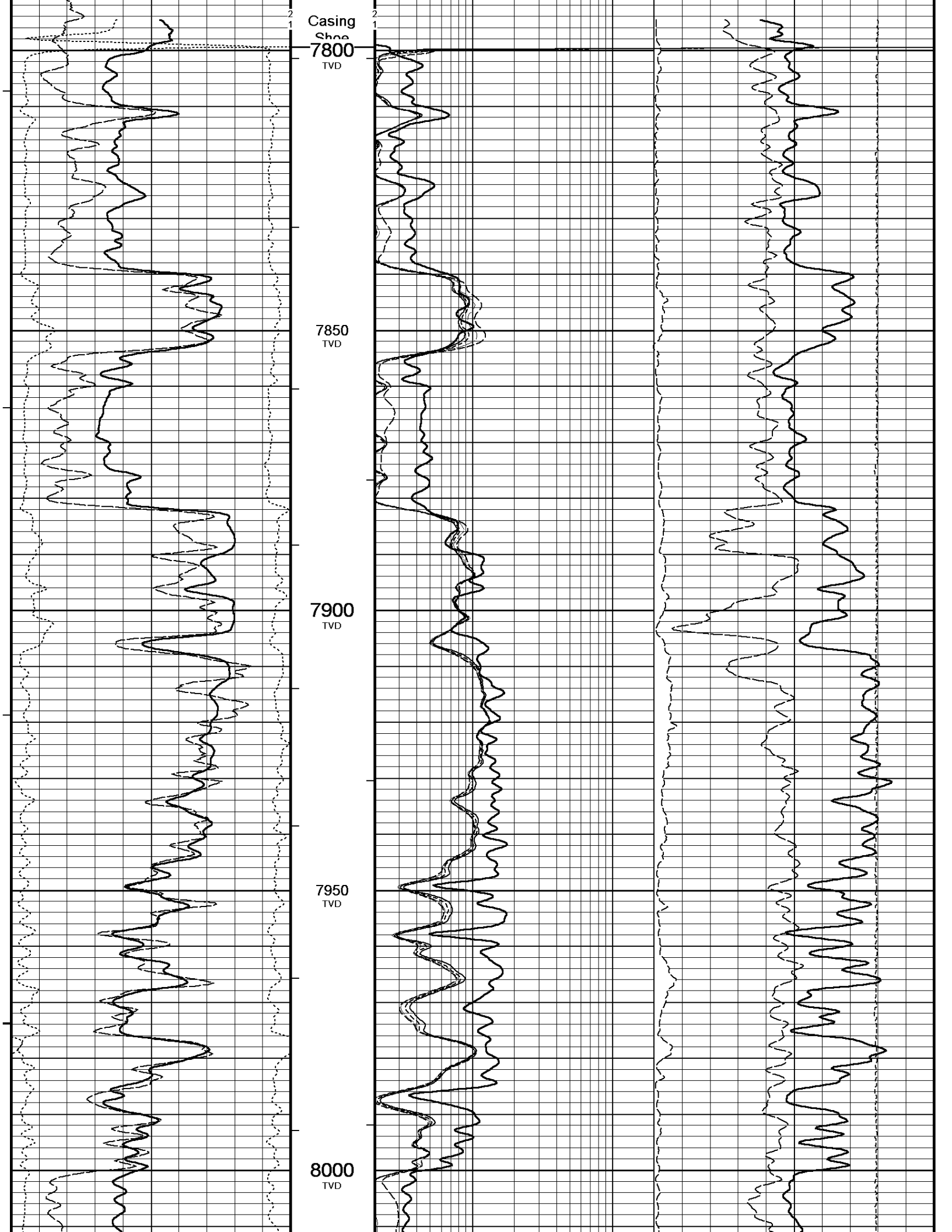
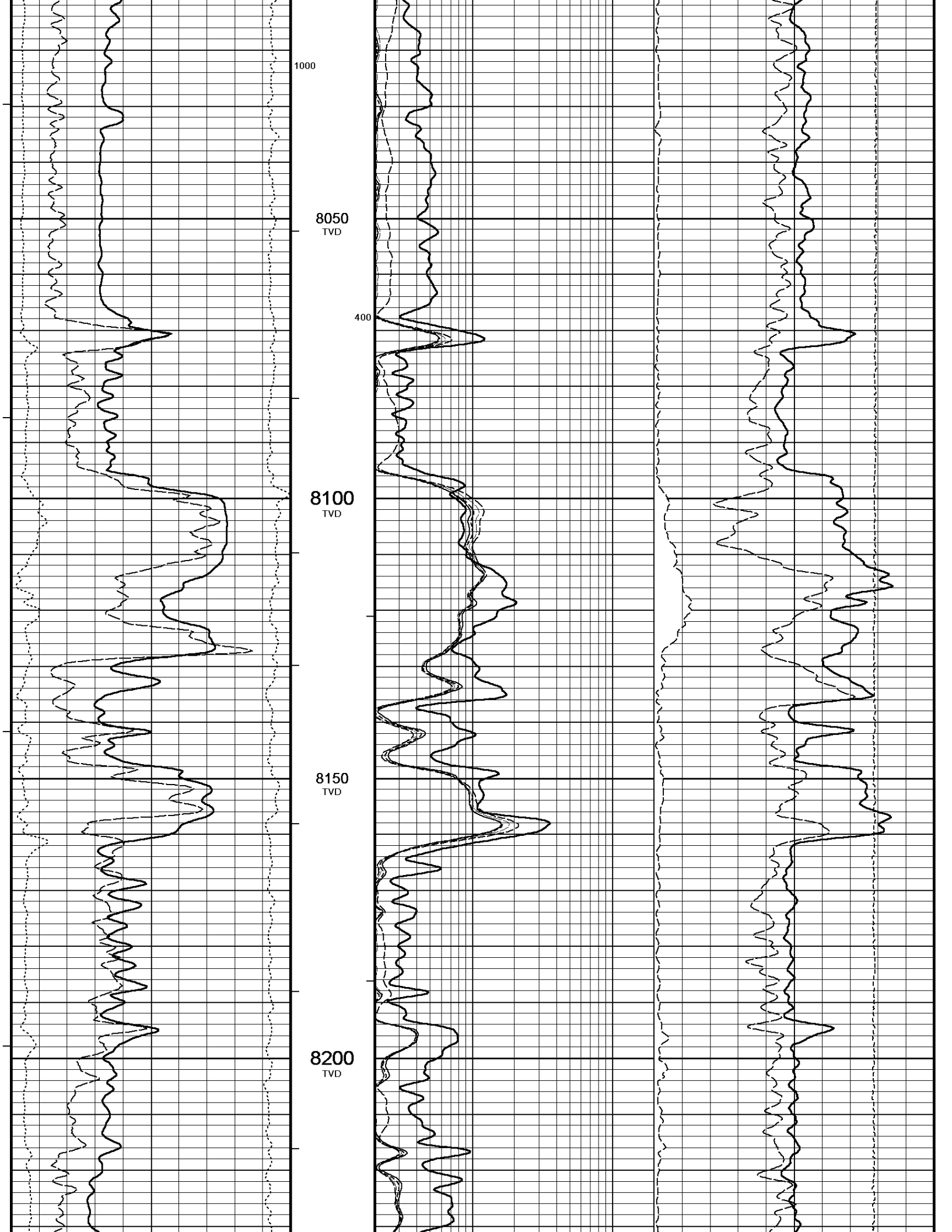
7000
TVD
7050
TVD
7100
TVD

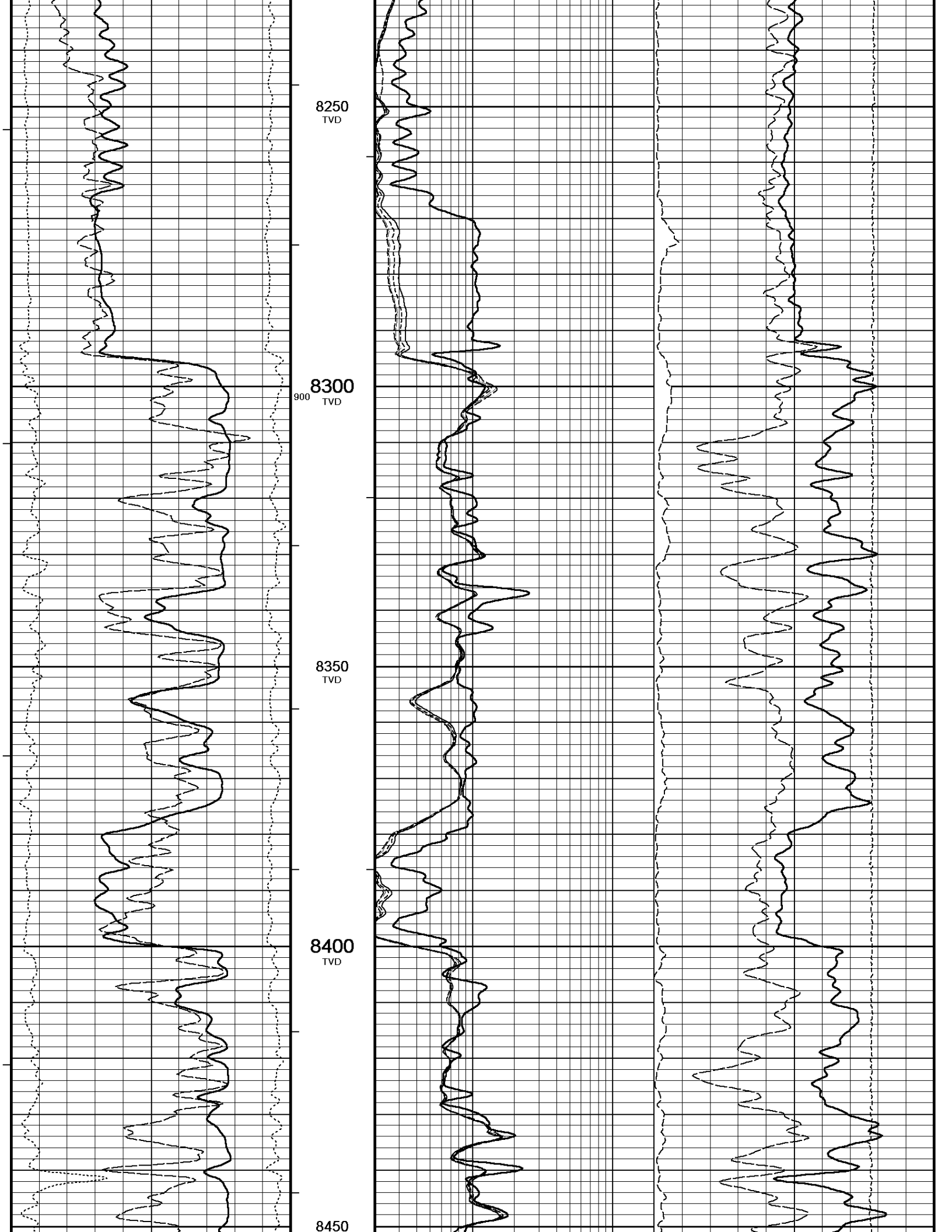

7150
TVD
7200
TVD
7250
TVD
7300
TVD
7350

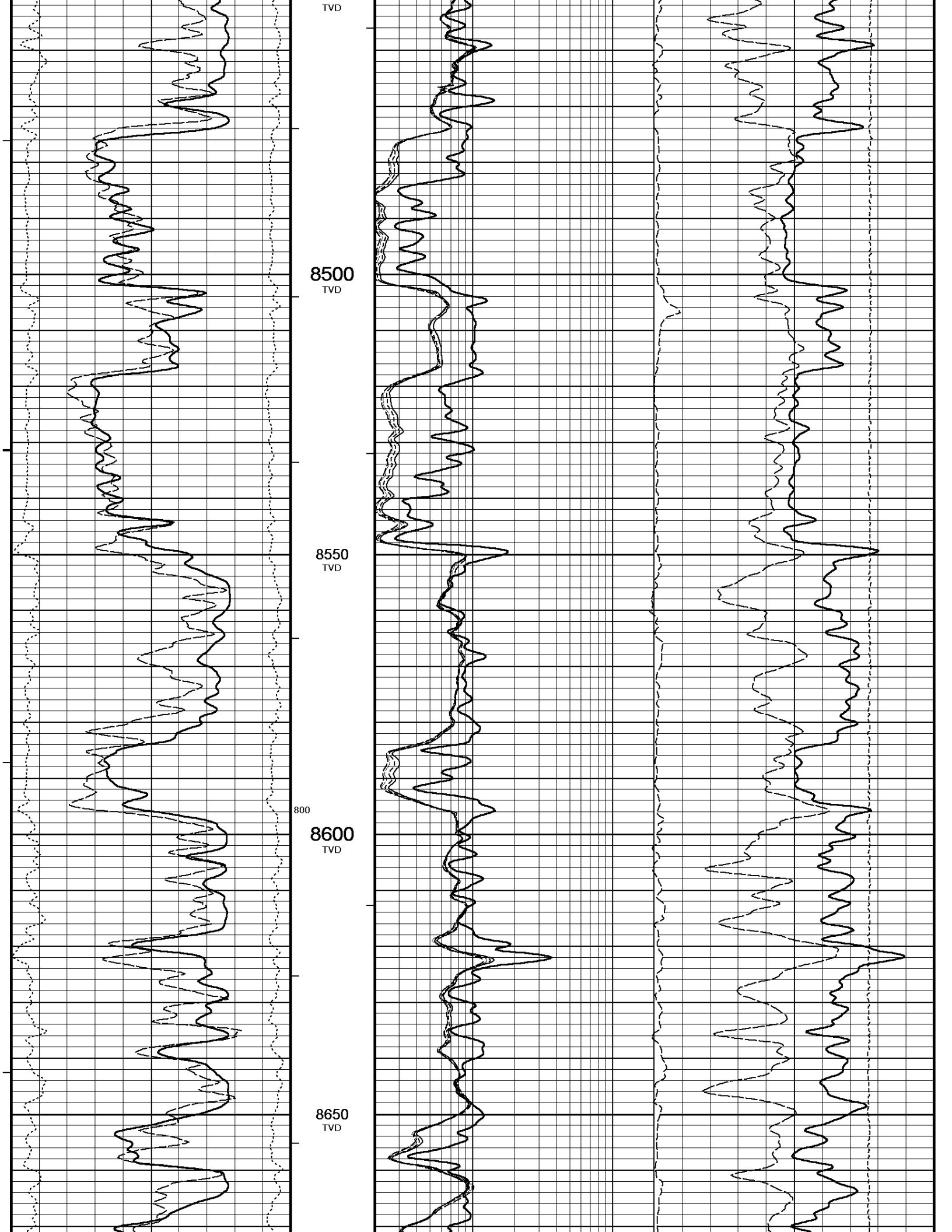

TVD
7400
TVD
7450
TVD
7500
TVD
7550
TVD

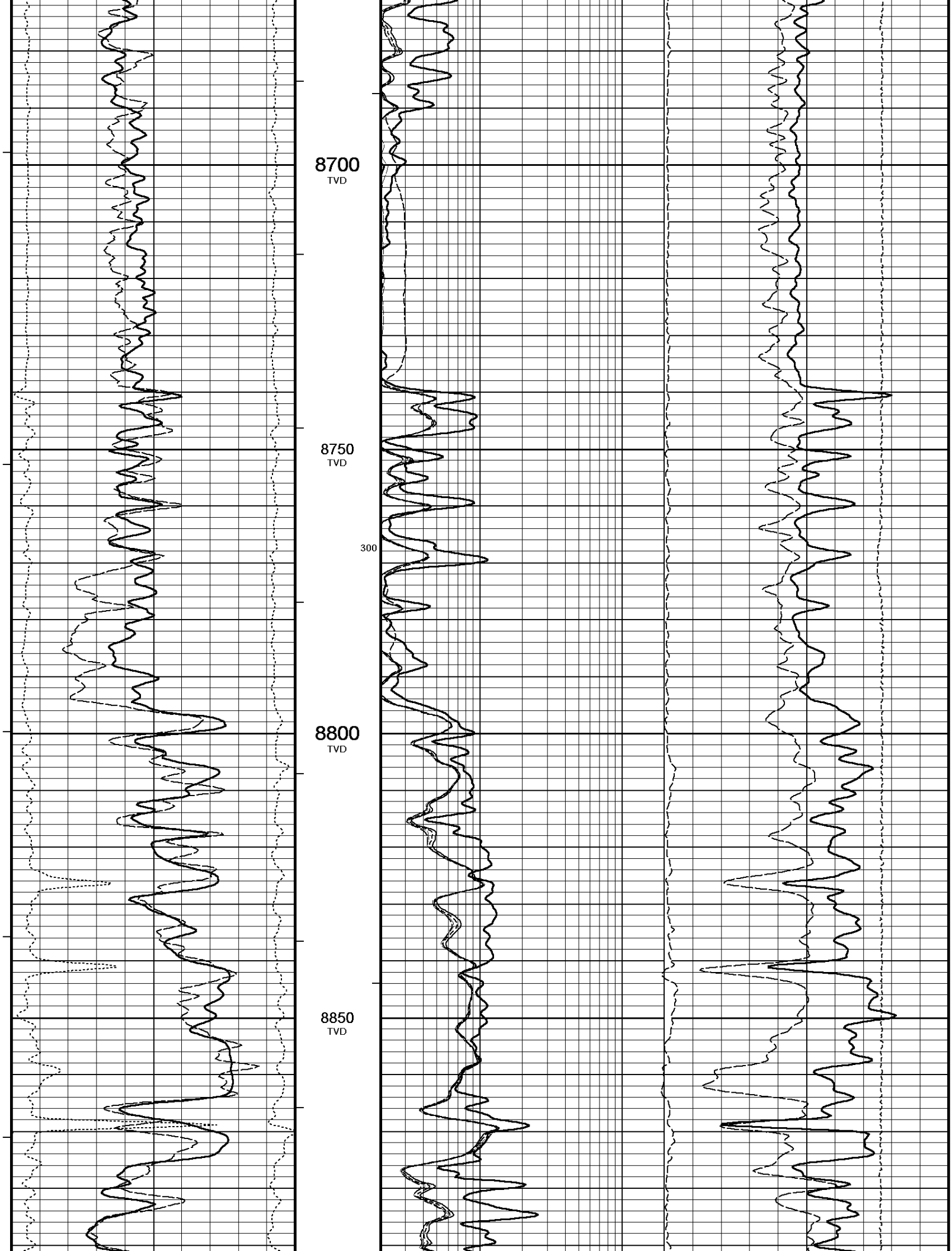

7600
TVD
7650
TVD
7700
TVD
7750
TVD

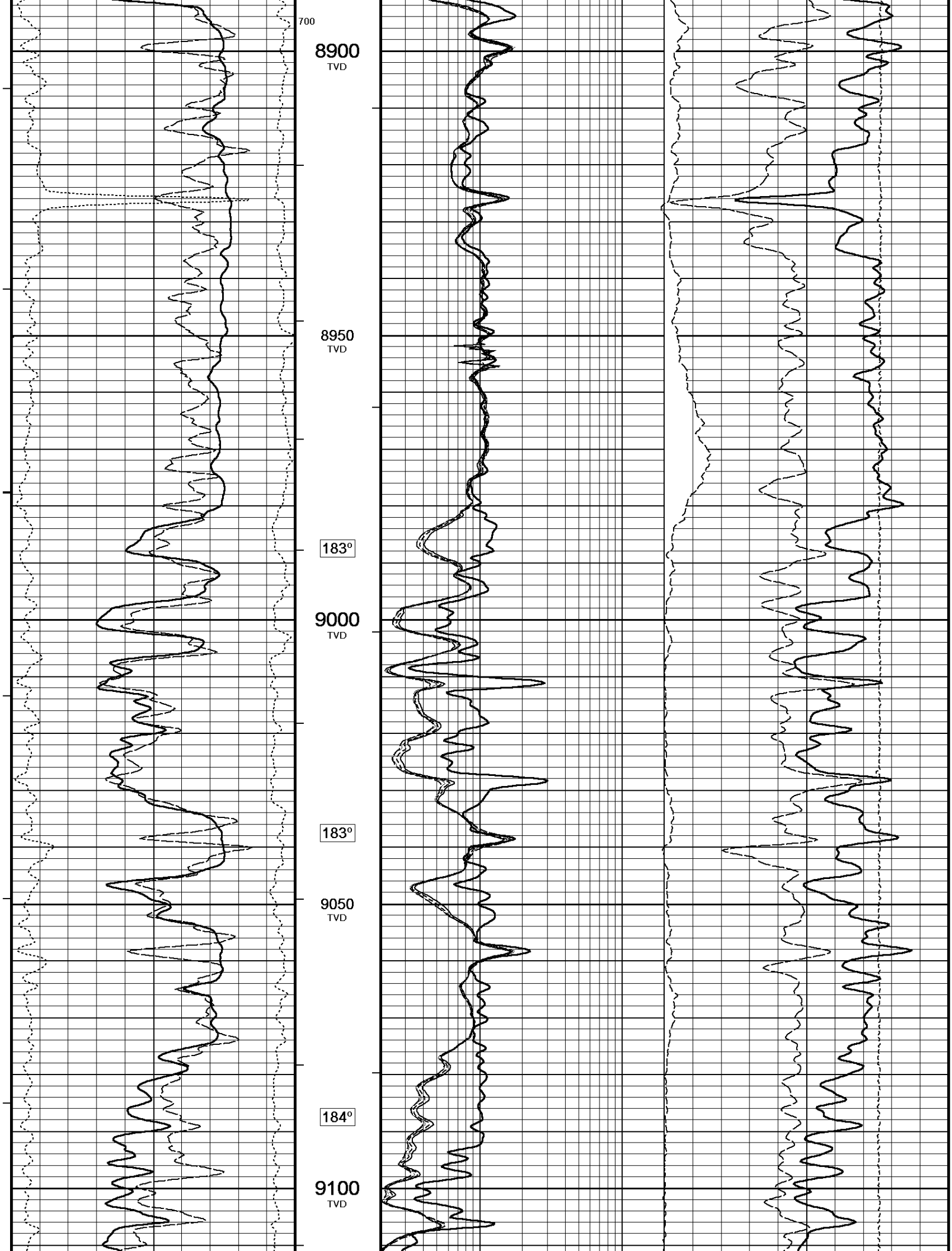

2
1
Casing
Shoe
7800
TVD
7850
TVD
7900
TVD
7950
TVD
8000
TVD

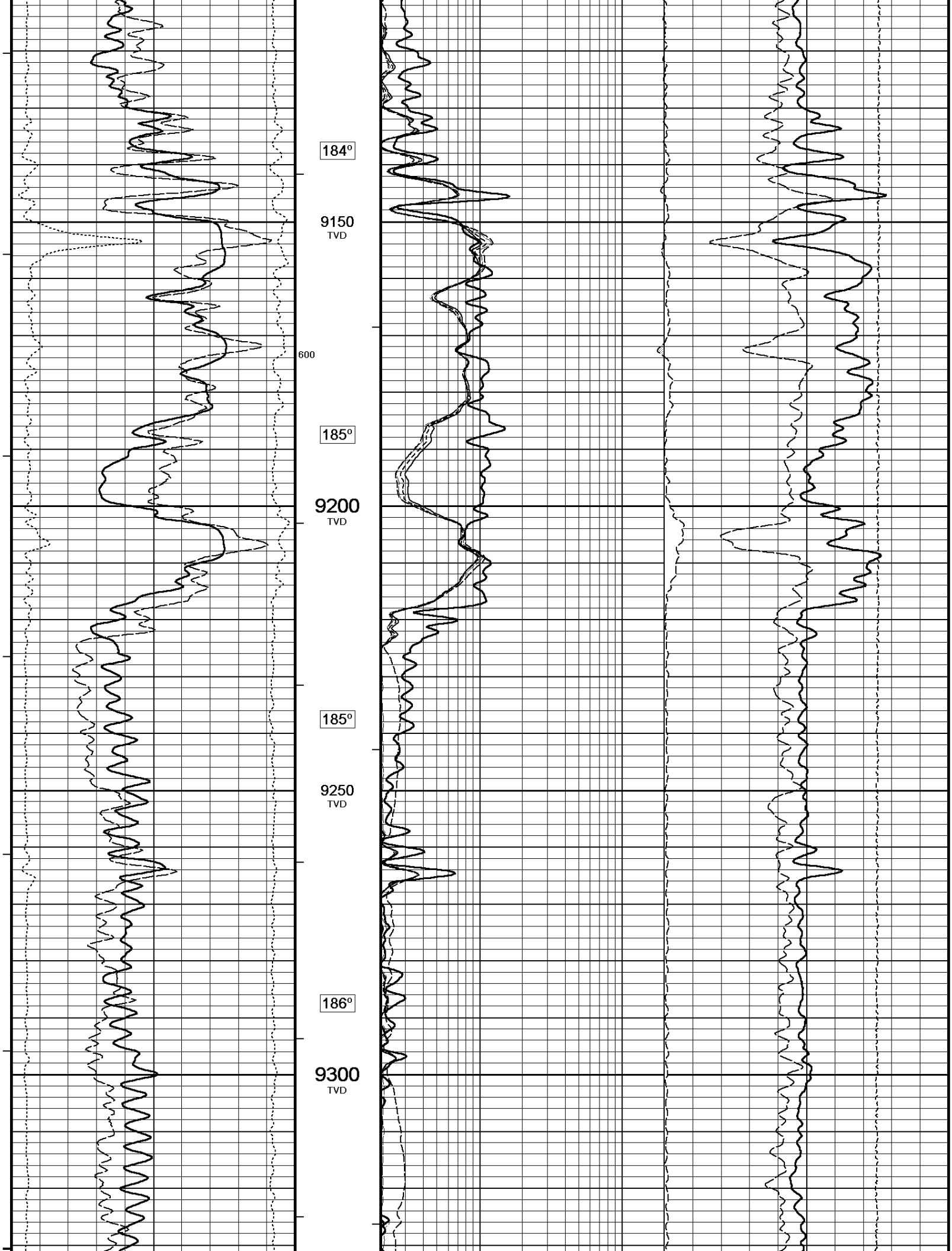

1000
8050
TVD
400
8100
TVD
8150
TVD
8200
TVD

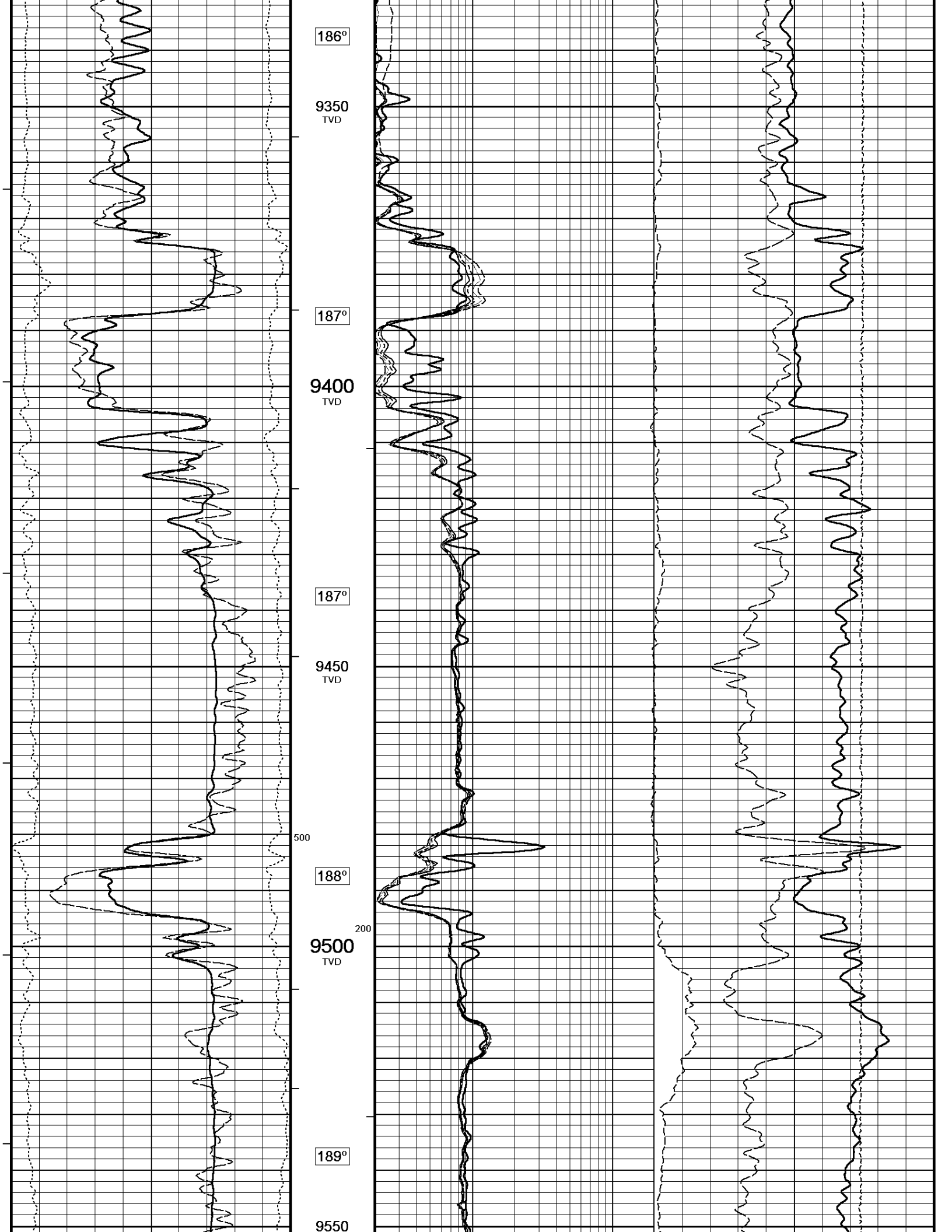

8250
TVD
900
8300
TVD
8350
TVD
8400
TVD
8450

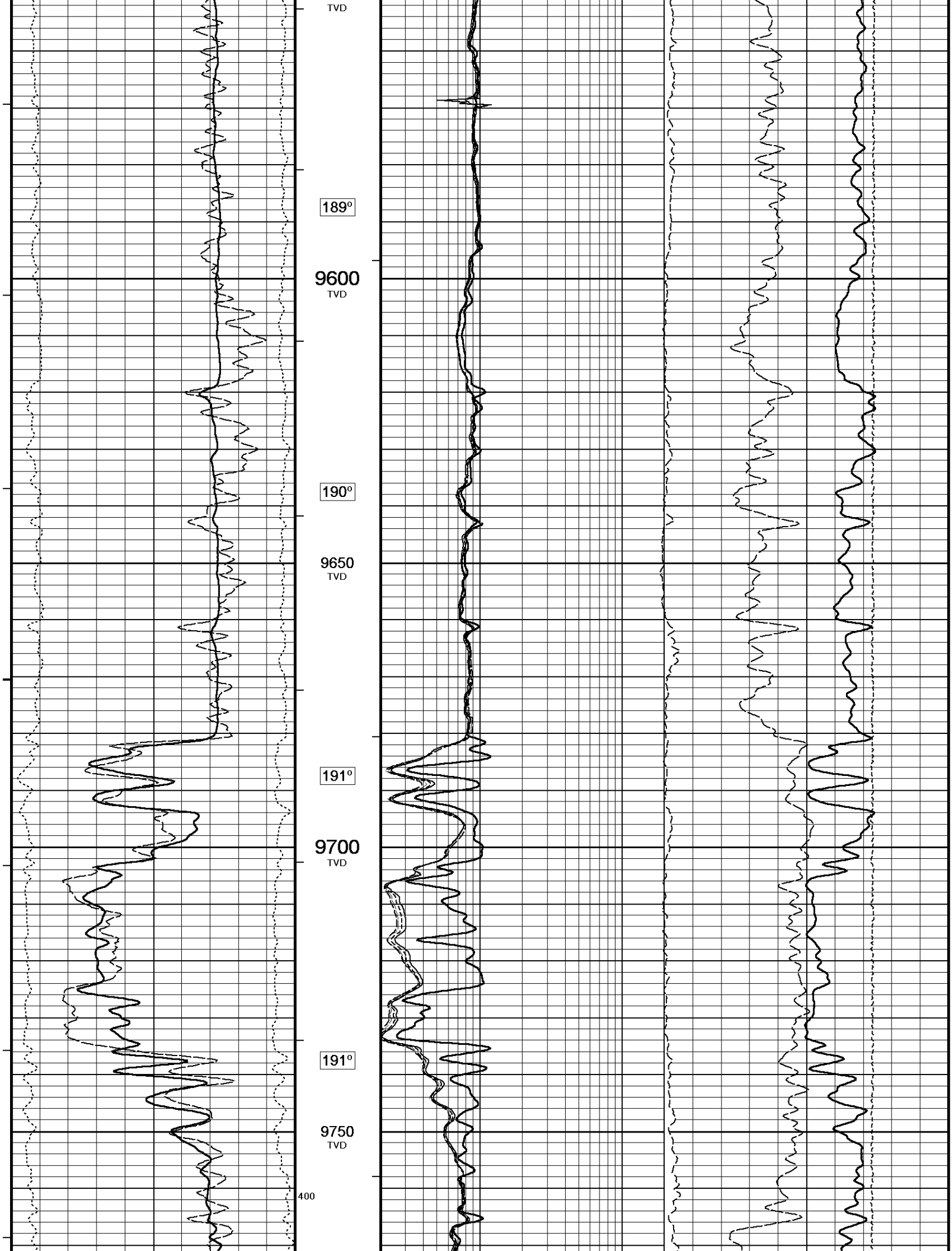

TVD
8500
TVD
8550
TVD
800
8600
TVD
8650
TVD

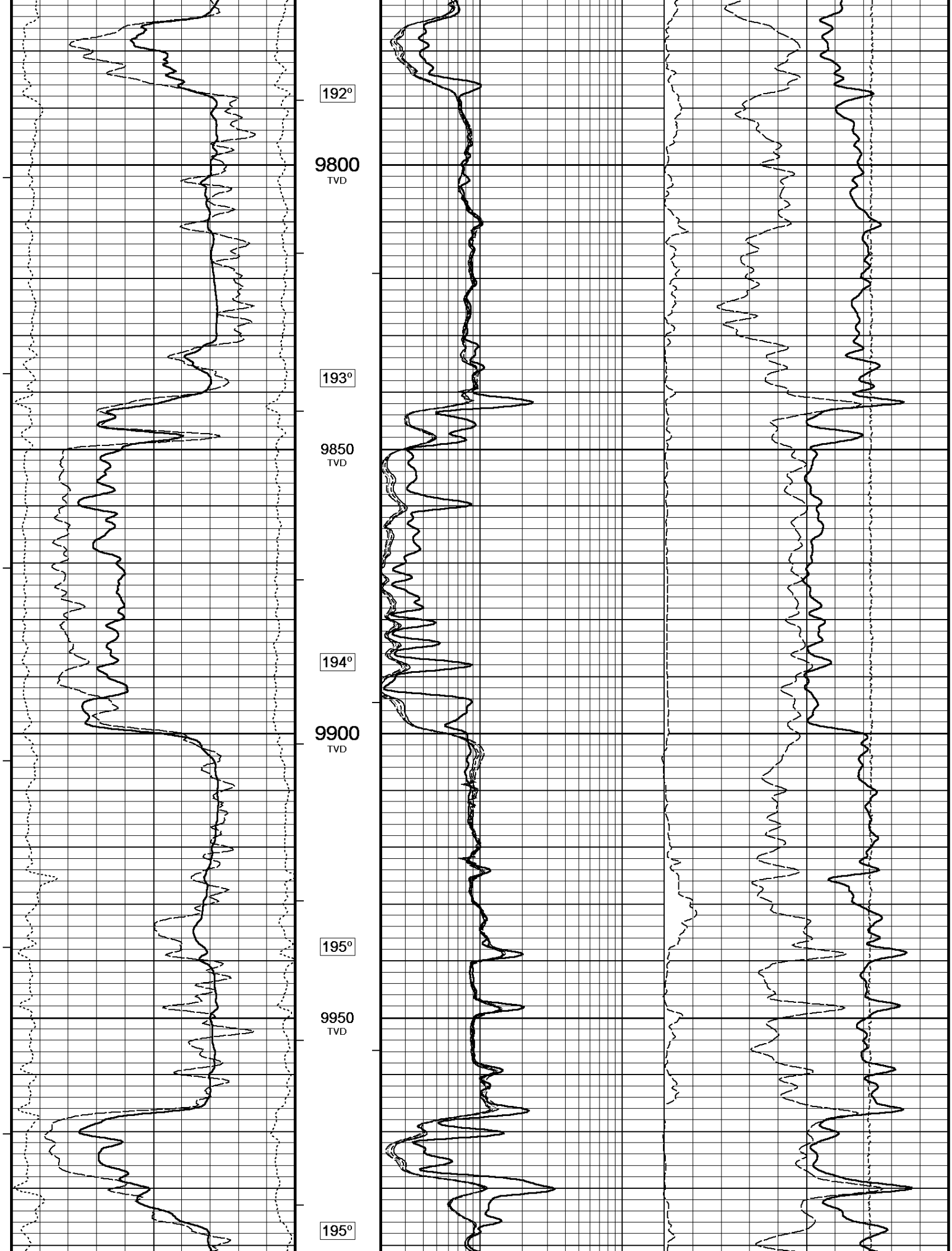

8700
TVD
8750
TVD
300
8800
TVD
8850
TVD

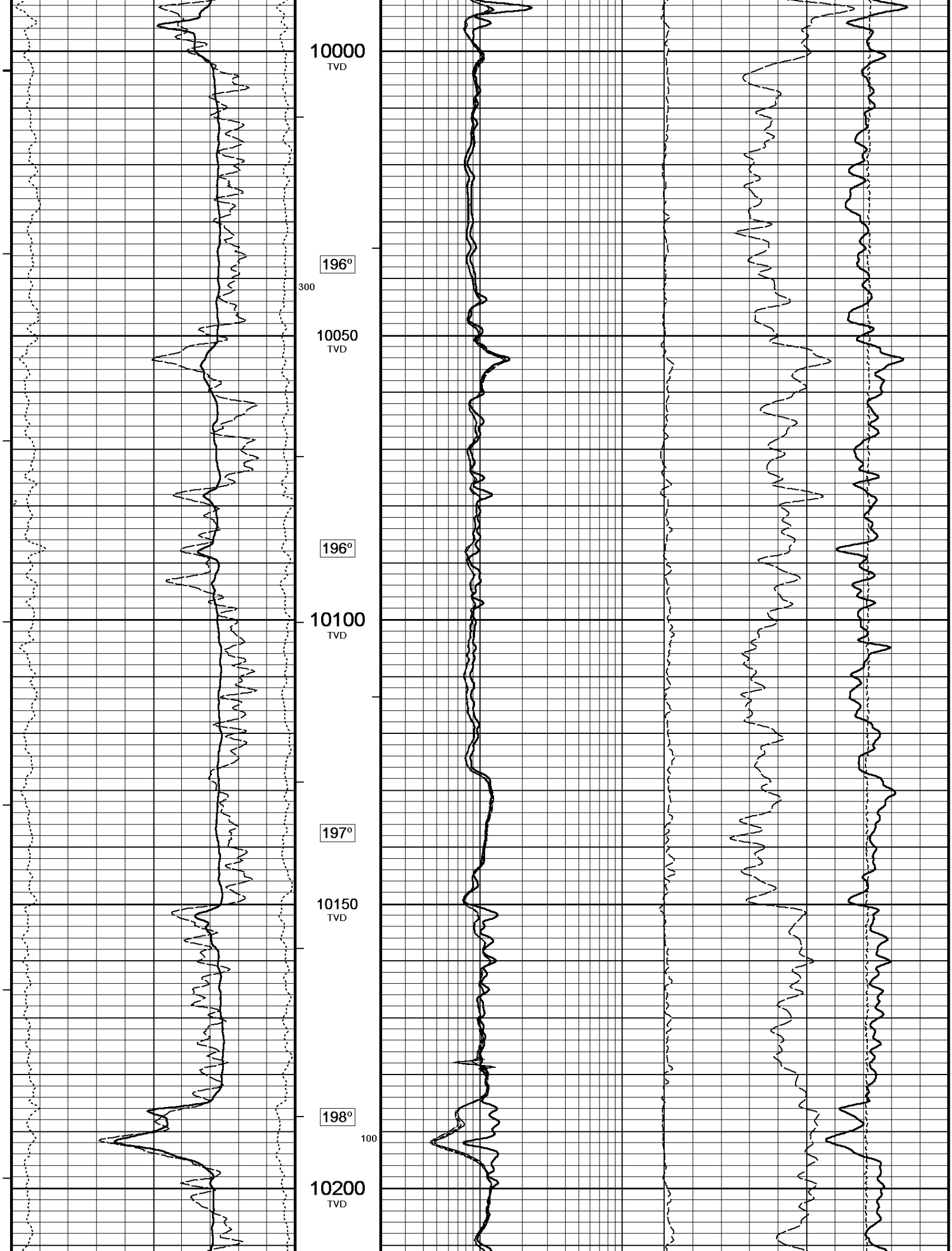

700
8900
TVD
8950
TVD
183°
9000
TVD
183°
9050
TVD
184°
9100
TVD

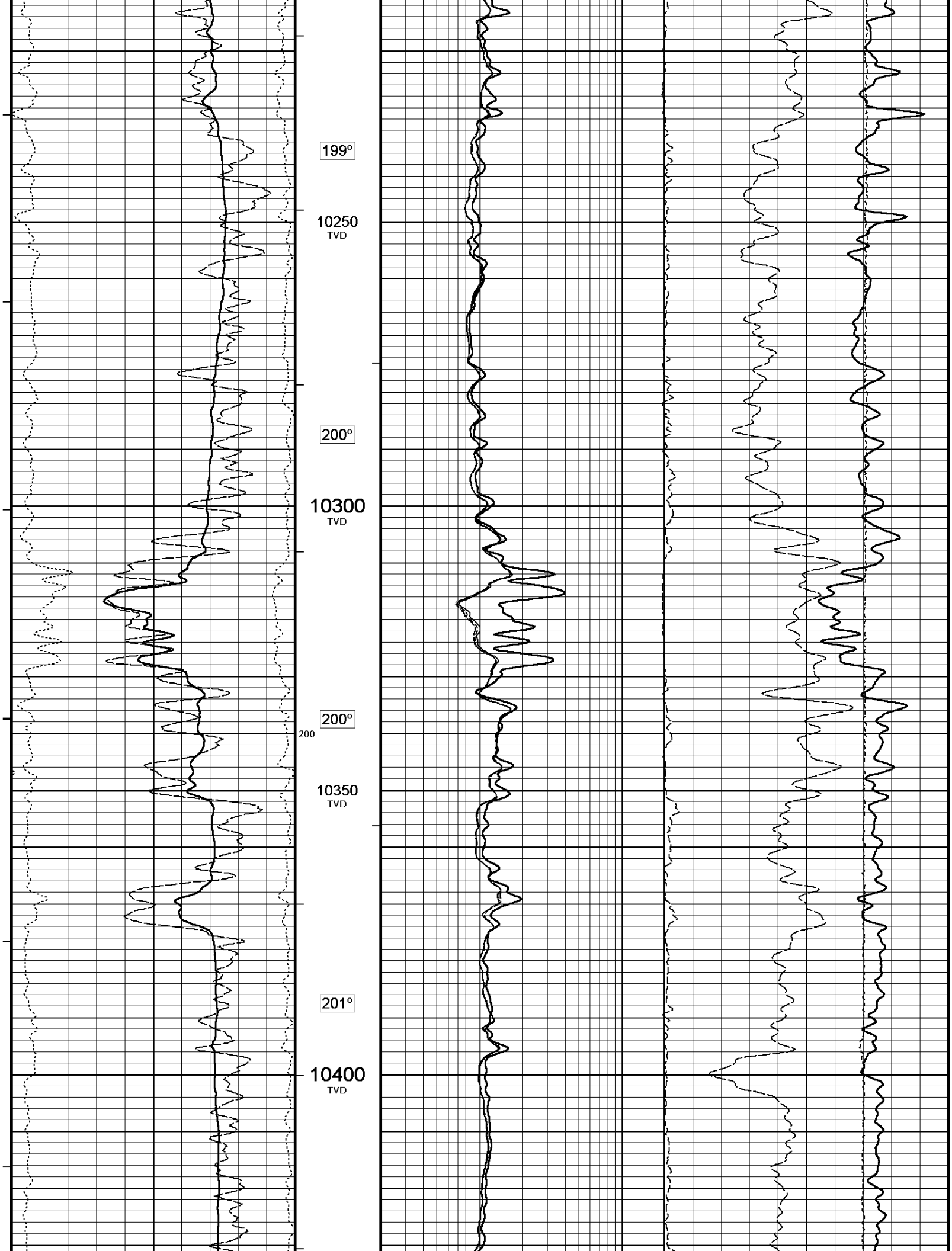

184°
9150
TVD
600
185°
9200
TVD
185°
9250
TVD
186°
9300
TVD

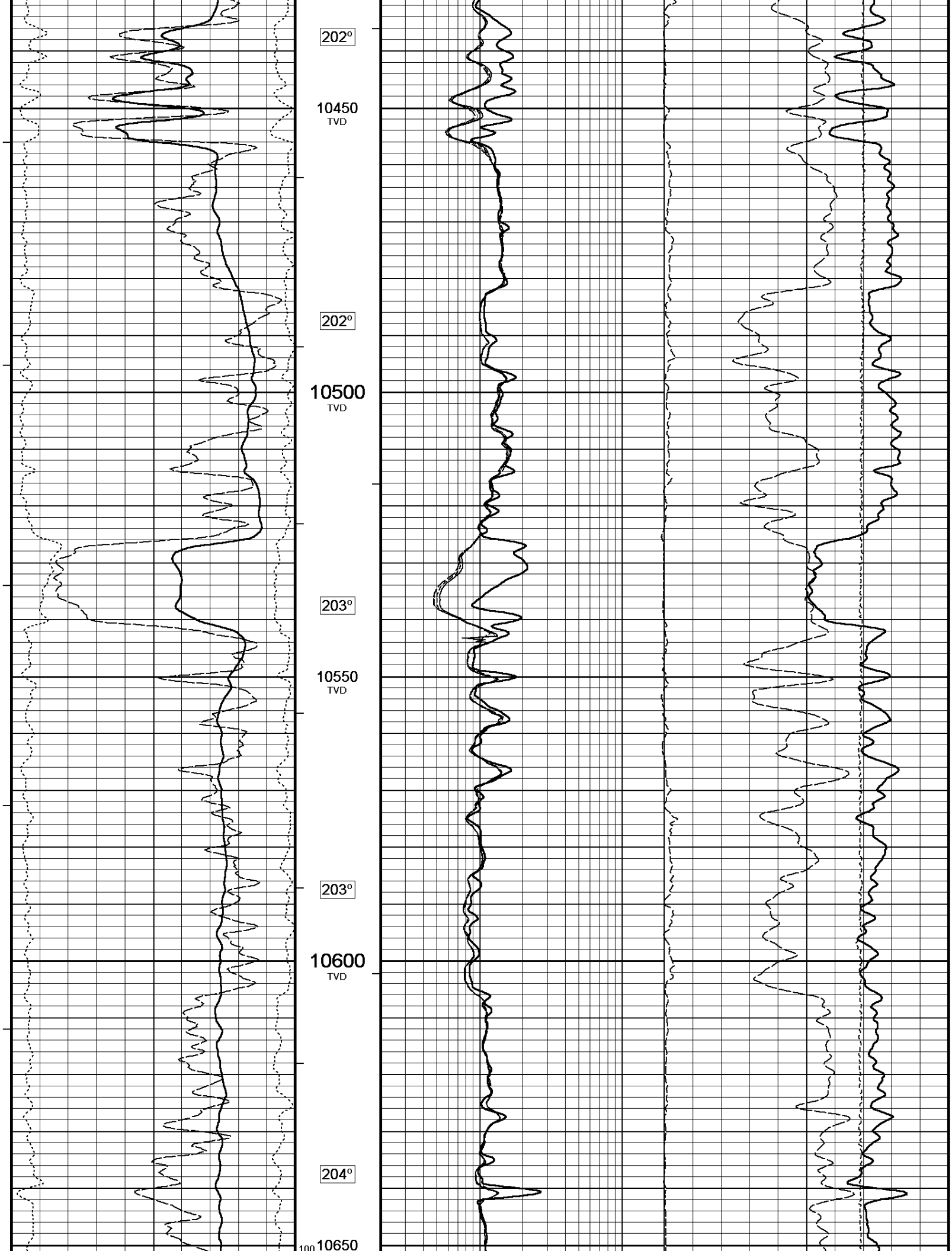

186°
9350
TVD
187°
9400
TVD
187°
9450
TVD
500
188°
200
9500
TVD
189°
9550

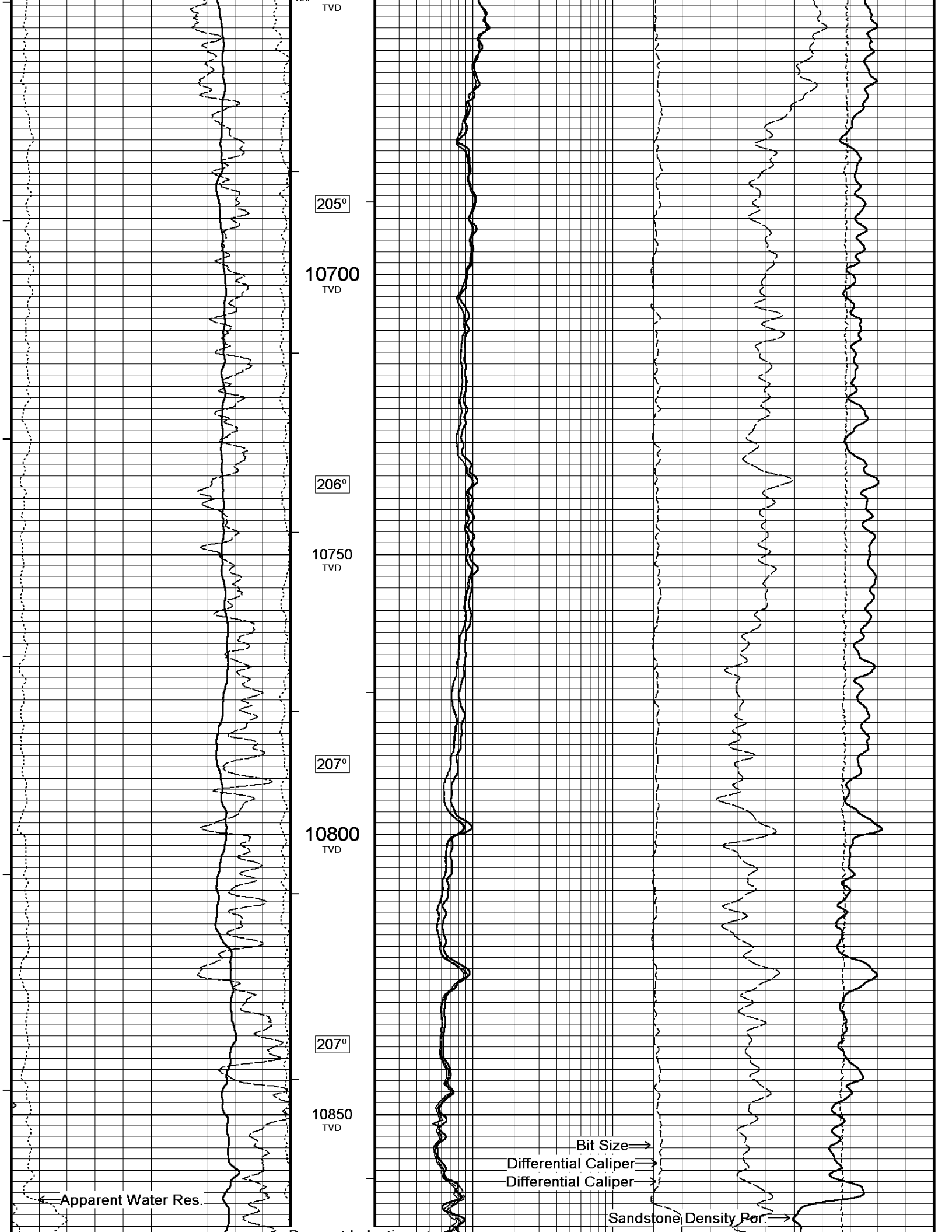

TVD
189°
9600
TVD
190°
9650
TVD
191°
9700
TVD
191°
9750
TVD
400

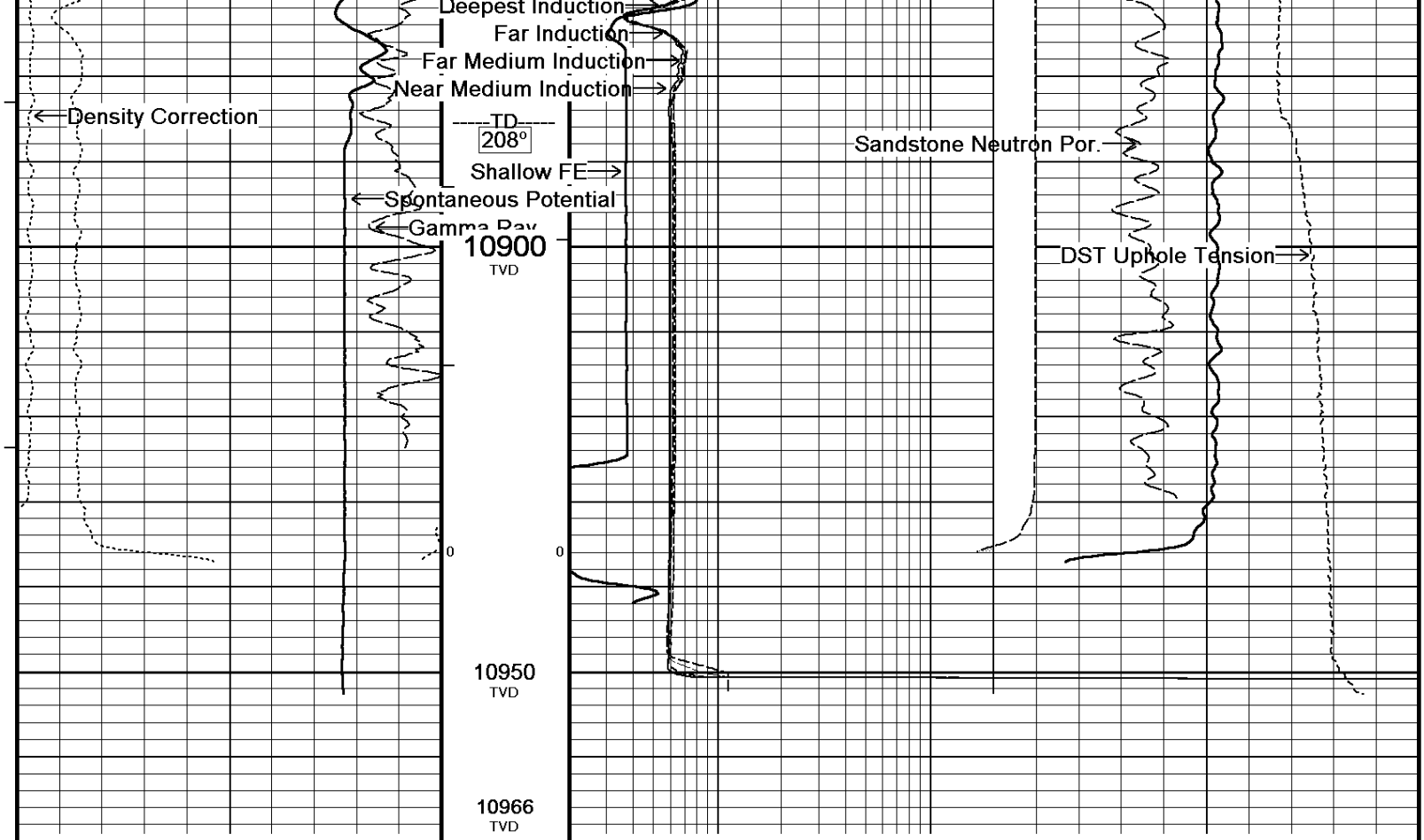

192°
9800
TVD
193°
9850
TVD
194°
9900
TVD
195°
9950
TVD
195°


10000
TVD
196°
300
10050
TVD
196°
10100
TVD
197°
10150
TVD
198°
100
10200
TVD


199°
10250
TVD
200°
10300
TVD
200°
200
10350
TVD
201°
10400
TVD


202°
10450
TVD
202°
10500
TVD
203°
10550
TVD
203°
10600
TVD
204°
100
10650


TVD
205°
10700
TVD
206°
10750
TVD
207°
10800
TVD
207°
10850
TVD
Bit Size
Differential Caliper
Differential Caliper
Apparent Water Res.
Sandstone Density Por.



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

HVI every 10 cu ft

Shallow FE
ohm metres
0.20 1 10 100 1000 2000

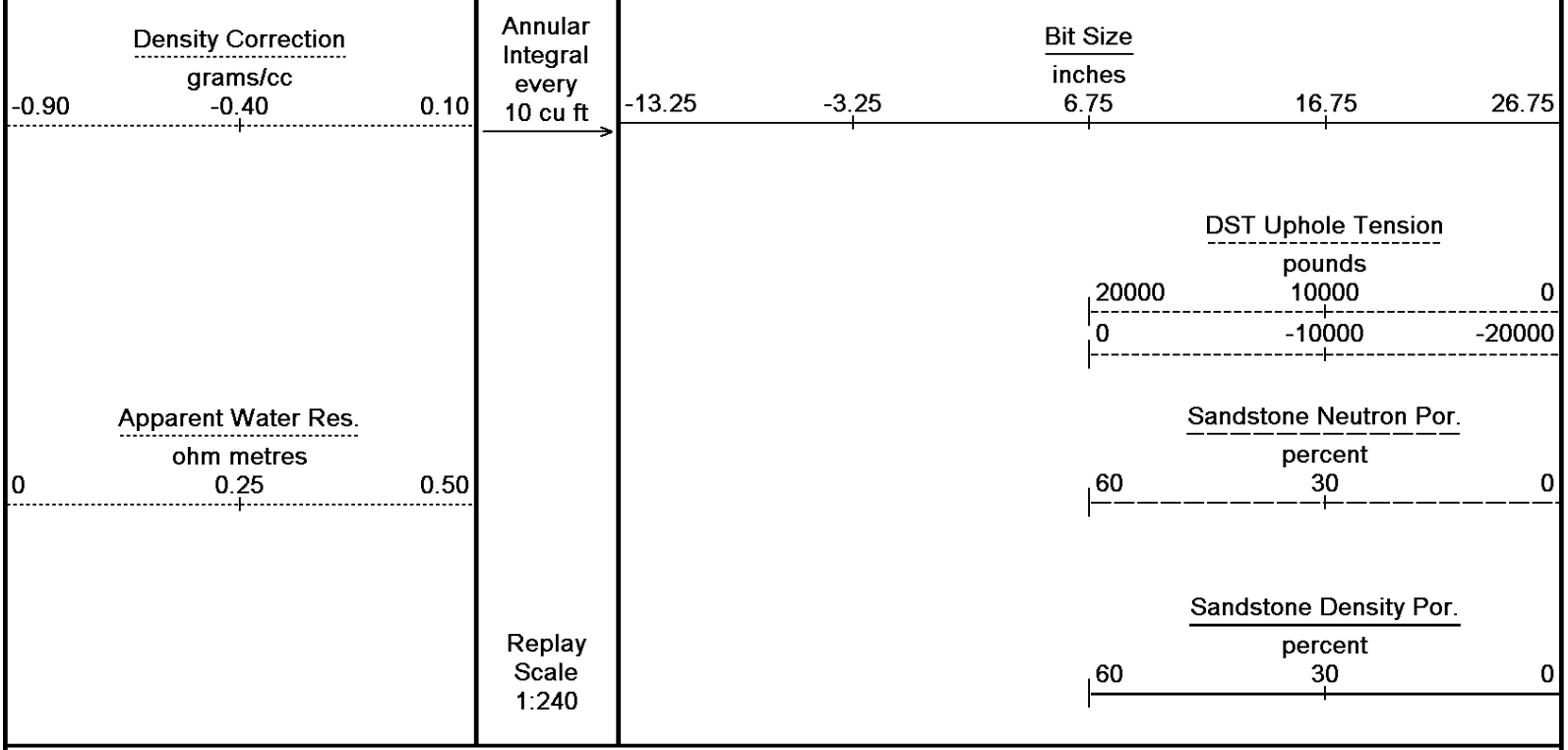
Near Medium Induction
ohm metres
0.20 1 10 100 1000 2000

Far Medium Induction
ohm metres
0.20 1 10 100 1000 2000

Far Induction
ohm metres
0.20 1 10 100 1000 2000

Deepest Induction
ohm metres
0.20 1 10 100 1000 2000

Differential Caliper
inches
-20 -10 0 10 20

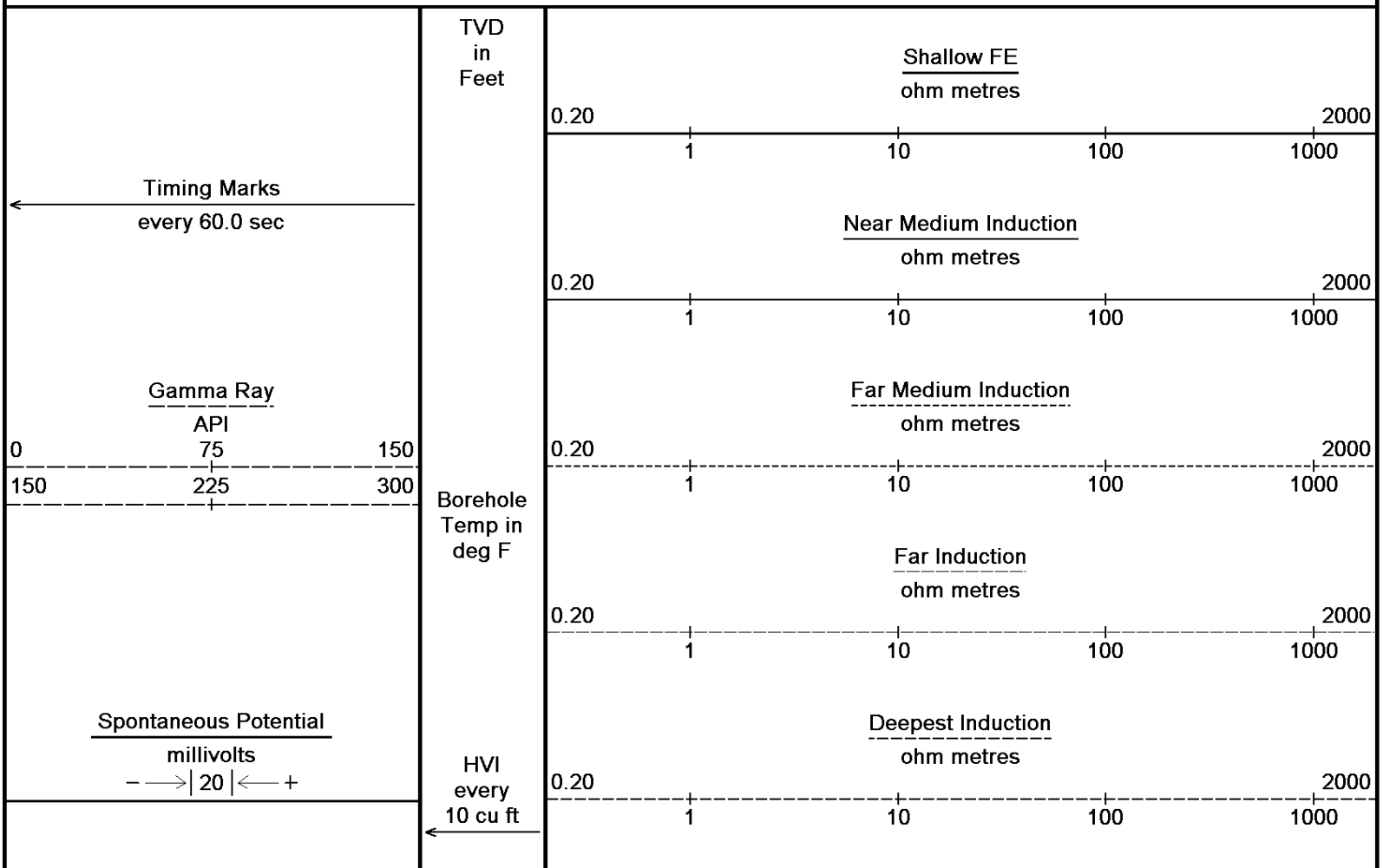


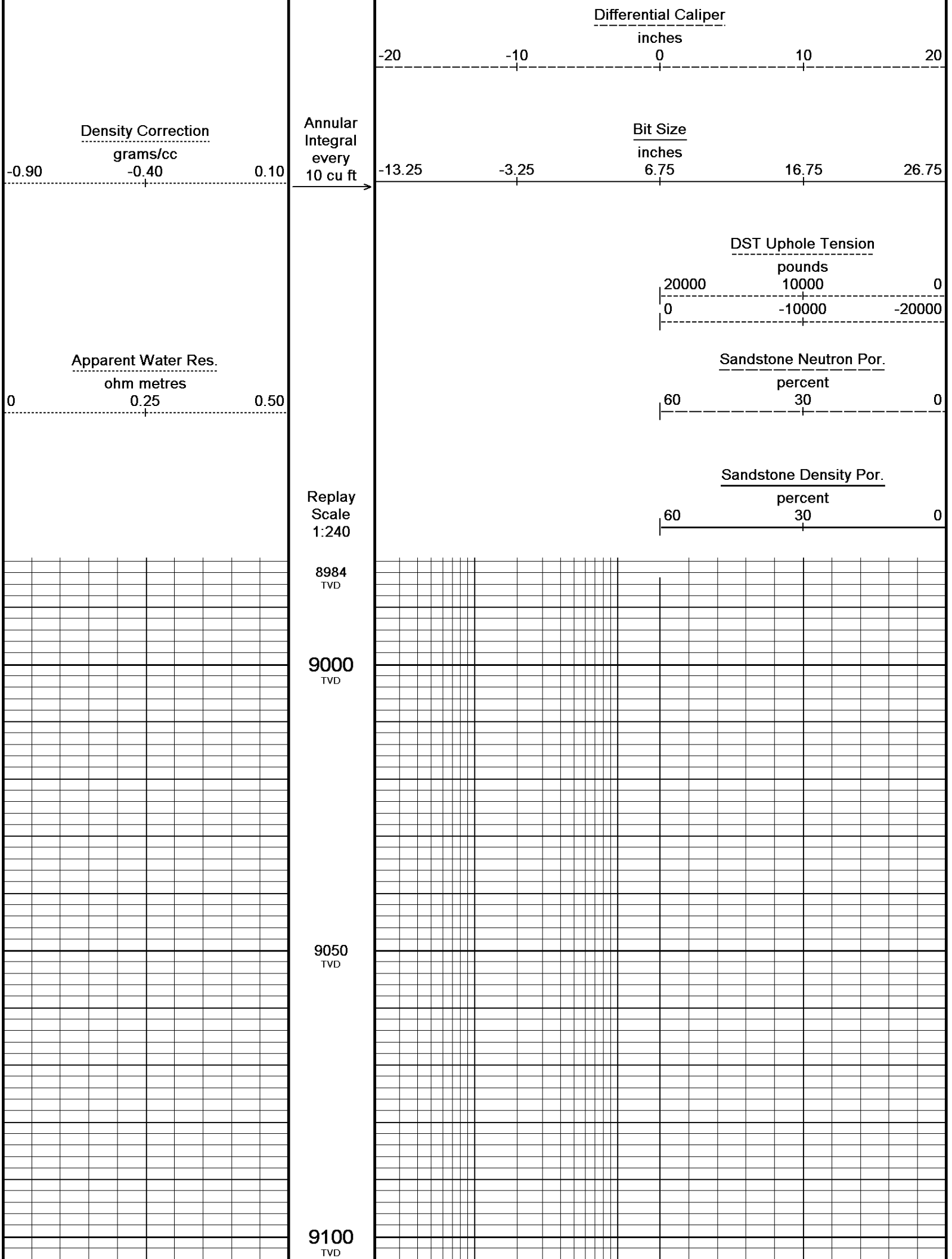
Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 23-AUG-2009 20:06
Filename: E:\Logs\Data\Endeavor Natural Gas\Copy of Main Log.dta — Recorded on 23-AUG-2009 16:04
System Versions: Plotted with 8.05.0177

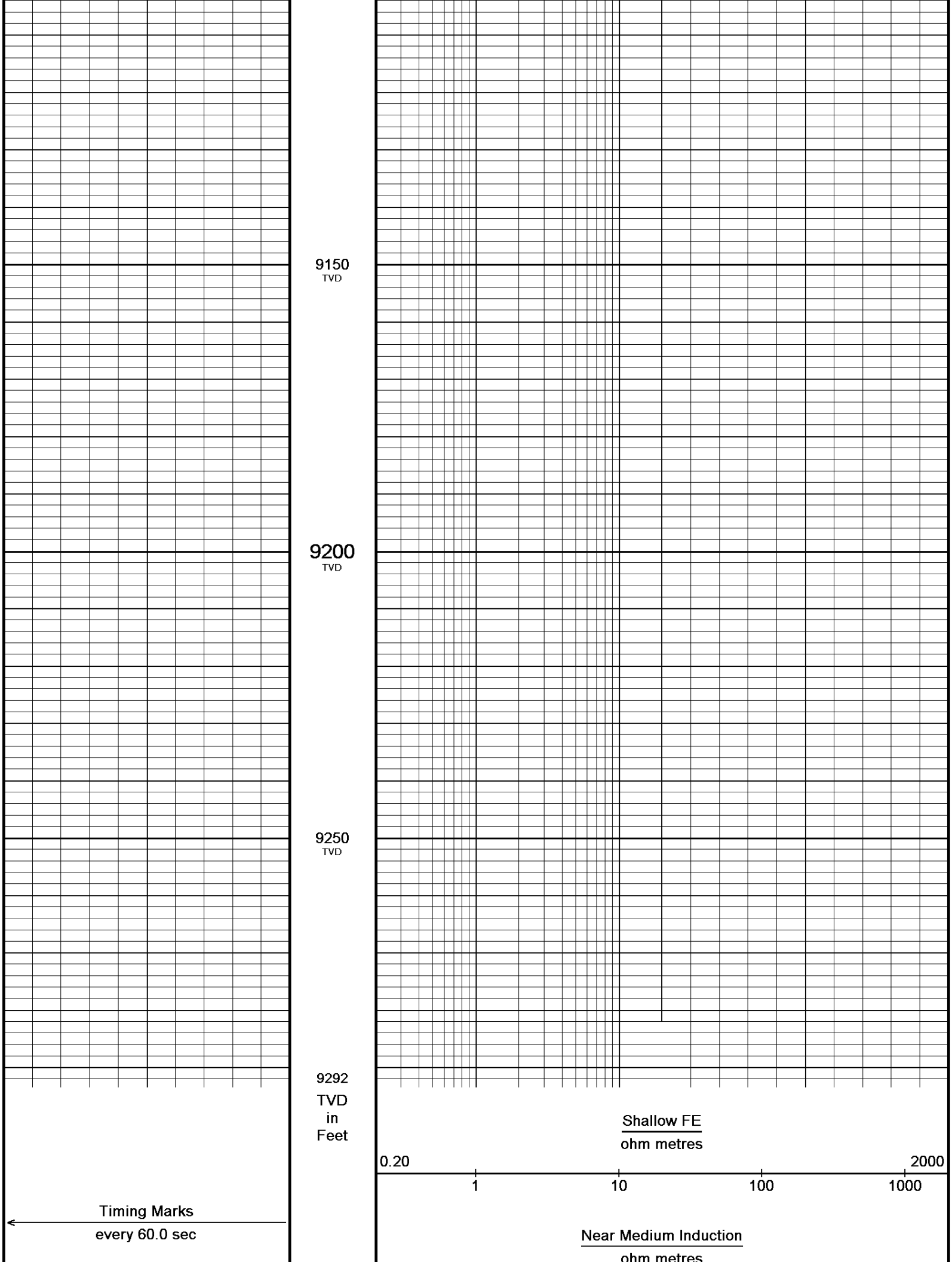
5 Inch Main TVD

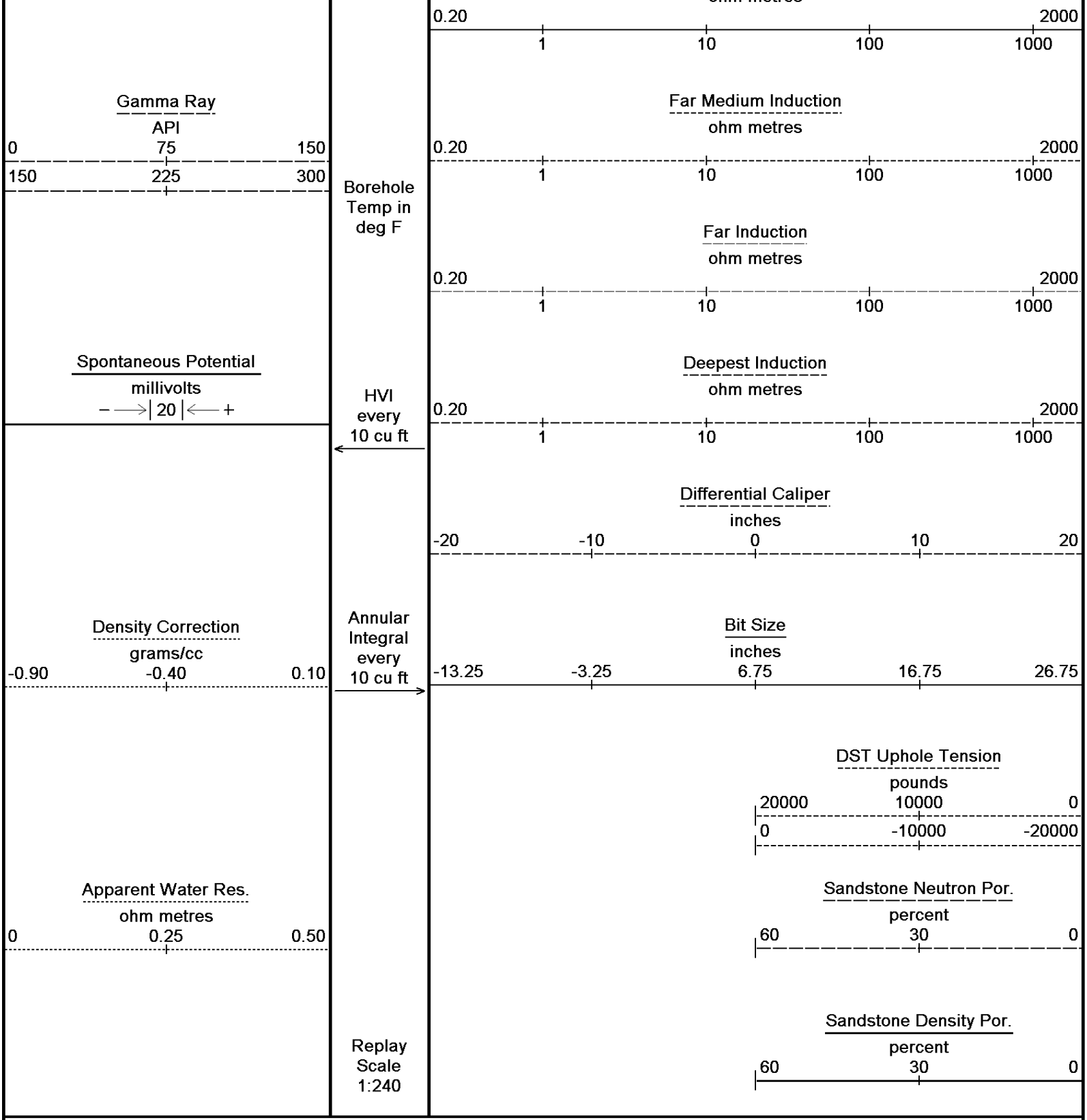
5 Inch Repeat TVD

Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 23-AUG-2009 20:06
Filename: E:\Logs\Data\Endeavor Natural Gas\Copy of Triple Combo_002.dta — Recorded on 23-AUG-2009 17:34
System Versions: Logged with 8.05.0177 Processed with 8.05.0177 Plotted with 8.05.0177




Differential Caliper
inches
-20
-10
0
10
20
Density Correction
grams/cc
-0.90
-0.40
0.10
Annular
Integral
every
10 cu ft
Bit Size
inches
-13.25
-3.25
6.75
16.75
26.75
DST Uphole Tension
pounds
20000
10000
0
0
-10000
-20000
Apparent Water Res.
ohm metres
0
0.25
0.50
Sandstone Neutron Por.
percent
60
30
0
Sandstone Density Por.
percent
60
30
0
Replay
Scale
1:240
8984
TVD
9000
TVD
9050
TVD
9100
TVD


9150
TVD
9200
TVD
9250
TVD
9292
TVD
in
Feet
Shallow FE
ohm metres
0.20
2000
1
10
100
1000
Timing Marks
every 60.0 sec
Near Medium Induction
ohm metres



Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 23-AUG-2009 20:06
Filename: E:\Logs\Data\Endeavor Natural Gas\Copy of Triple Combo_002.dta
Recorded on 23-AUG-2009 17:34
System Versions: Logged with 8.05.0177 Processed with 8.05.0177 Plotted with 8.05.0177

5 Inch Repeat TVD

BEFORE SURVEY CALIBRATION

E:\Logs\Data\Endeavor Natural Gas\Copy of Triple Combo.dta

General Constants All 000
Last Edited on 23-AUG-2009,15:54

General Parameters

Mud Resistivity	0.800	ohm-metres
Mud Resistivity Temperature	85.000	degrees F

Water Level	0.000	feet
Density/Neutron Processing	Water Level Switch	
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	Density Caliper	
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 01-OCT-2008 08:41

Reading No	Measured	Calibrated (lbs)
1	14529.71	0.00
2	15052.61	434.00

Gamma Calibration MCG 123

Field Calibration on 23-AUG-2009,13:41

	Measured	Calibrated (API)
Background	71	48
Calibrator (Gross)	838	572
Calibrator (Net)	767	524

Gamma Constants MCG 123

Last Edited on 23-AUG-2009,13:40

Gamma Calibrator Number	GRCC 146	
Mud Density	1.25	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

SP Calibration MCG 123

Field Calibration on 3-AUG-2009,13:37

	Measured	Calibrated (mV)
Reference 1	100.0	100.0
Reference 2	-100.0	-100.0

High Resolution Temperature Calibration MCG 123

Field Calibration on 3-AUG-2009,13:37

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

High Resolution Temperature Constants MCG 123

Pre-filter Length	11

Neutron Calibration MDN 105

Base Calibration on 3-AUG-2009 12:35
Field Check on 12-AUG-2009,08:13

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3081	98	3714	110
Ratio	31.287		33.764	

Field Calibrator at Base

	Calibrated (cps)	
	3030	3360
Ratio	0.902	

Field Check

	Calibrated (cps)	
	3021	3334
Ratio	0.906	

Neutron Constants MDN 105

Last Edited on 23-AUG-2009,13:41

Neutron Source Id	751
Neutron Jig Number	WSV 165
Epithermal Neutron	No
Caliper Source for Processing	Bit Size

Stand-off	0.00	inches
Mud Density	1.25	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	7.00	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	

Photo Density Calibration MPD 106

Base Calibration on 3-AUG-2009 11:50
Field Check on 23-AUG-2009,13:42

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	62048	33069	60331	31878
Reference 2	25184	2878	25171	2536

Field Check at Base		
	1366.4	1467.3

Field Check		
	1367.4	1469.8

PE Calibration

Base Calibration	Measured			Calibrated
	WS	WH	Ratio	Ratio
Background	247	1218		
Reference 1	28056	61815	0.459	0.398
Reference 2	7225	25021	0.293	0.272

Field Check at Base		
	247.1	1217.5

Field Check		
	244.9	1218.4

Density Constants MPD 106

Last Edited on 23-AUG-2009,15:21

Density Source Id	265	
Nylon Calibrator Number	DNC-E-604	
Aluminium Calibrator Number	DAC-D-604	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.25	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	Advanced	

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

Caliper Calibration MPD 106

Base Calibration on 3-AUG-2009 11:27
Field Calibration on 23-AUG-2009,13:42

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	21263	4.02

1	21263	4.02
2	30960	6.01
3	40863	7.99
4	51228	10.03
5	61764	11.99
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.94	7.99

FE Calibration MFE 088

Base Calibration on 3-AUG-2009 13:32
Field Check on 23-AUG-2009,13:42

Base Calibration

	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	963.4	126.8
Base Check		279.8
Field Check		279.8

FE Constants MFE 088

Last Edited on 23-AUG-2009,13:42

Running Mode	No Sleeve	
MFE K Factor	0.1268	
Caliper Source for FE correction	Density Caliper	
Caliper Value for FE correction	N/A	inches
Rm Source for FE correction	Temperature Corr	
Temp. for Rm Corr.	MCG External Temperature	
Stand-off	0.5	inches

Induction Calibration MAI 077

Base Calibration on 21-AUG-2009,10:35
Field Check on 23-AUG-2009,13:43

Base Calibration

Test Loop Calibration

Channel	Measured Low	Measured High	Calibrated (mmho/m) Low	Calibrated (mmho/m) High
1	14.0	459.1	9.3	966.2
2	5.4	370.9	7.6	821.4
3	2.8	253.1	5.2	566.0
4	2.1	131.8	2.6	279.2

Array Temperature 65.0 Deg F

Channel	Base Check (mmho/m) Low	Base Check (mmho/m) High	Field Check (mmho/m) Low	Field Check (mmho/m) High
1	20.8	3937.5	20.8	3937.7
2	32.6	3628.5	32.6	3628.7
3	30.5	3113.8	30.5	3114.0
4	19.4	2101.0	19.4	2101.1
Deep	18.3	2003.5	18.3	2003.5
Medium	44.5	4127.5	44.6	4127.6
Shallow	49.4	5403.0	49.3	5403.2
Array Temperature		85.9		86.1 Deg F

Induction Constants MAI 077

Last Edited on 23-AUG-2009,13:42

Induction Model	ENHANCED	
Caliper for Borehole Corr.	Density Caliper	
Hole Size for Borehole Correction	N/A	inches
Tool Centred	No	
Stand-off Type	Pineapple	
Stand-off	0.49	inches
Number of Fins on Stand-off	5.0000	
Stand-off Fin Angle	72.00	degrees
Stand-off Fin Width	1.3878	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

High Resolution Temperature Calibration MAI 077

Field Calibration on 21-AUG-2009,10:34

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

High Resolution Temperature Constants MAI 077

Last Edited on 21-AUG-2009,10:34

Pre-filter Length	11

DOWNHOLE EQUIPMENT

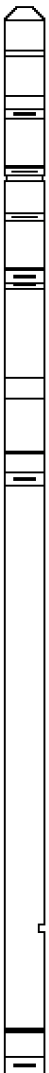
E:\Logs\Data\Endeavor Natural Gas\Copy of Triple Combo.dta

MCC-A 11C Tension Cablehead
MCC 1 Length: 2.40 ft Weight: 19.8 lb

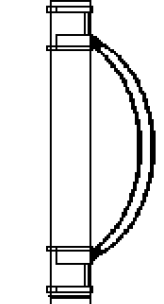
11C-11B MTA-A Compact Tool Adaptor
MTA 1 Length: 1.53 ft Weight: 13.2 lb

SHA-H Compact Swivel Head Adaptor
SHA 112 Length: 2.30 ft Weight: 22.0 lb

Compact Gamma
MCG 123 Length: 8.70 ft Weight: 63.9 lb

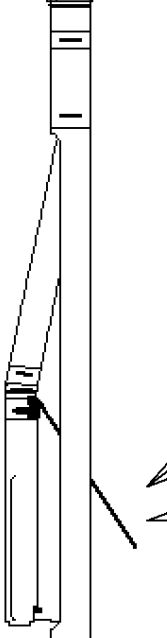


Compact Neutron
MDN 105 Length: 5.04 ft Weight: 50.7 lb



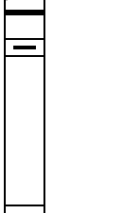
28.43 ft NPRS - Sandstone Neutron Por.

Compact Density/Caliper
MPD 106 Length: 9.59 ft Weight: 90.4 lb



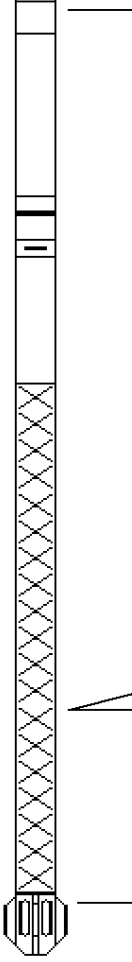
19.96 ft DFCL - Differential Caliper
19.96 ft HVOL - Hole Volume
19.96 ft AVOL - Annular Volume
19.26 ft DCOR - Density Correction
19.26 ft DPOR - Base Density Porosity

Compact Focussed Electric
MFE 88 Length: 6.03 ft Weight: 48.5 lb



13.70 ft FEFE - Shallow FE

Compact Induction
MAI 77 Length: 10.81 ft Weight: 48.5 lb



2.58 ft RILM - Medium Induction
2.58 ft RILD - Deep Induction

Tool Zero (0.13ft from bottom)

Total	Length: 46.39 ft	Weight: 357.1 lb	All measurements relative to tool zero.

COMPANY	ENDEAVOR NATURAL GAS, LP.
WELL	LAKE ARTHUR RECLAMATION CO. #1
FIELD	PERREAU ISLAND
PROVINCE/COUNTY	CAMERON
COUNTRY/STATE	USA / LOUISIANA

Elevation Kelly Bushing	28.50	feet	First Reading	12813.00	feet
Elevation Drill Floor	27.50	feet	Depth Driller	12888.00	feet
Elevation Ground Level	-1.50	feet	Depth Logger	12814.00	feet

Weatherford®

ARRAY INDUCTION / RSFE

PHOTO DENSITY / NEUTRON

GAMMA RAY LOG