

Results of Directional Survey

API number:	30-025-39386			
OGRID:		Operator:	DEVON PRODUCTION COMPANY, LP	
		Property:	THISTLE UNIT	# 10

surface	ULSTR:	N	27	T	23S	R	33E
				850	FSL	1820	FWL

BH Loc	ULSTR:	N	27	T	23S	R	33E
14200	MD	14198.6	TVD	847	FSL	1753	FWL

Top Perf/OH	ULSTR:	N	27	T	23S	R	33E
13526	MD	13524.7	TVD	848	FSL	1776	FWL

Bot Perf/OH	ULSTR:	N	27	T	23S	R	33E
13774	MD	13772.6	TVD	846	FSL	1768	FWL

	MD	N/S	E/W	VD
	13500	-1.70	-43.40	13498.7
TOP PERFS/OH	13526	-2.17	-44.28	13524.67
	13600	-3.50	-46.80	13598.60
	13700	-4.40	-49.30	13698.60
BOT PERFS/OH	13774	-4.25	-51.89	13772.60
	13800	-4.20	-52.80	13798.60

NEXT TO LAST	13700	-4.40	-49.30	13698.60
LAST READING	13800	-4.20	-52.80	13798.60
TD	14200	-3.40	-66.80	14198.60

Surface Location	850	FS	1820	FW
Projected BHL	847	FS	1753	FW
Location of				
Top Perfs/OH	848	FS	1776	FW
Bottom Perfs/OH	846	FS	1768	FW

SUMMARY of Subsurface Locations

Surface Location	N-27-23S-33E	850	FS	1820	FW	Vert. Depth
Top Perfs/OH	N-27-23S-33E	848	FS	1776	FW	13524.67
Bottom Perfs/OH	N-27-23S-33E	846	FS	1768	FW	13772.60
Projected TD	N-27-23S-33E	847	FS	1753	FW	14198.60

DEVON ENERGY

Johnson Ranch
Lea County, NM
Thistle Unit #10
VH - Job #32K0910714

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SUR: N-27-23s-33e, 850/S & 1820/W
BHL: N-27-23s-33e, 847/S & 1753/W
API # 30-025-39386

Survey: Actual

SDI Standard Survey Report

12 October, 2010

This survey is correct to the best of my knowledge and is supported by actual field data.

L. Hart

Notorized this date 13th of October, 2010.

Carré Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Thistle Unit #10
Project:	Johnson Ranch	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Thistle Unit #10	North Reference:	Grid
Wellbore:	VH - Job #32K0910714	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0910714	Database:	EDM-Regulatory

Project	Johnson Ranch		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Well	Thistle Unit #10, Vertical				
Well Position	+N/-S	0.0 usft	Northing:	463,075.47 usft	Latitude: 32° 16' 14.740 N
	+E/-W	0.0 usft	Easting:	738,140.03 usft	Longitude: 103° 33' 46.310 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level: 0.0 usft

Wellbore	VH - Job #32K0910714				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	9/24/2010	7.73	60.26	48,784

Design	VH - Job #32K0910714				
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Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	34.47	

Survey Program	Date	9/27/2010			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
12,136.0	13,888.0	Actual (VH - Job #32K0910714)	Keeper	Keeper Gyro	

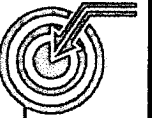
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
12,100.0	0.00	0.00	12,100.0	0.0	0.0	0.00	0.0
12,136.0	1.82	46.83	12,136.0	0.4	0.4	46.83	0.6
12,200.0	1.12	73.42	12,200.0	1.3	1.8	54.26	2.2
12,300.0	0.56	128.53	12,300.0	1.2	3.1	68.06	3.3
12,400.0	0.49	149.36	12,400.0	0.6	3.7	81.23	3.7
12,500.0	0.80	215.17	12,500.0	-0.4	3.5	96.07	3.5
12,600.0	1.83	242.02	12,599.9	-1.7	1.7	135.18	2.4
12,700.0	2.44	259.66	12,699.9	-2.8	-1.8	212.87	3.4
12,800.0	2.84	274.87	12,799.8	-3.0	-6.4	244.88	7.1
12,900.0	3.50	279.67	12,899.6	-2.3	-11.9	259.16	12.1
13,000.0	3.41	280.55	12,999.4	-1.2	-17.8	266.10	17.8
13,100.0	3.17	287.70	13,099.3	0.2	-23.4	270.42	23.4
13,200.0	3.37	281.99	13,199.1	1.6	-28.9	273.22	28.9
13,300.0	3.28	259.44	13,298.9	1.7	-34.6	272.83	34.6
13,400.0	2.51	245.31	13,398.8	0.3	-39.4	270.39	39.4
13,500.0	2.61	241.96	13,498.7	-1.7	-43.4	267.73	43.4
13,600.0	1.83	243.63	13,598.6	-3.5	-46.8	265.73	46.9

Scientific Drilling International, Inc.

SDI Standard Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Thistle Unit #10
Project:	Johnson Ranch	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Thistle Unit #10	North Reference:	Grid
Wellbore:	VH - Job #32K0910714	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0910714	Database:	EDM-Regulatory

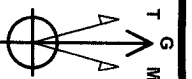
Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
13,700.0	1.24	257.14	13,698.6	-4.4	-49.3	264.85	49.5
13,800.0	1.08	282.91	13,798.6	-4.5	-51.3	265.01	51.4
13,888.0	0.93	280.40	13,886.6	-4.2	-52.8	265.49	52.9



Scientific Drilling

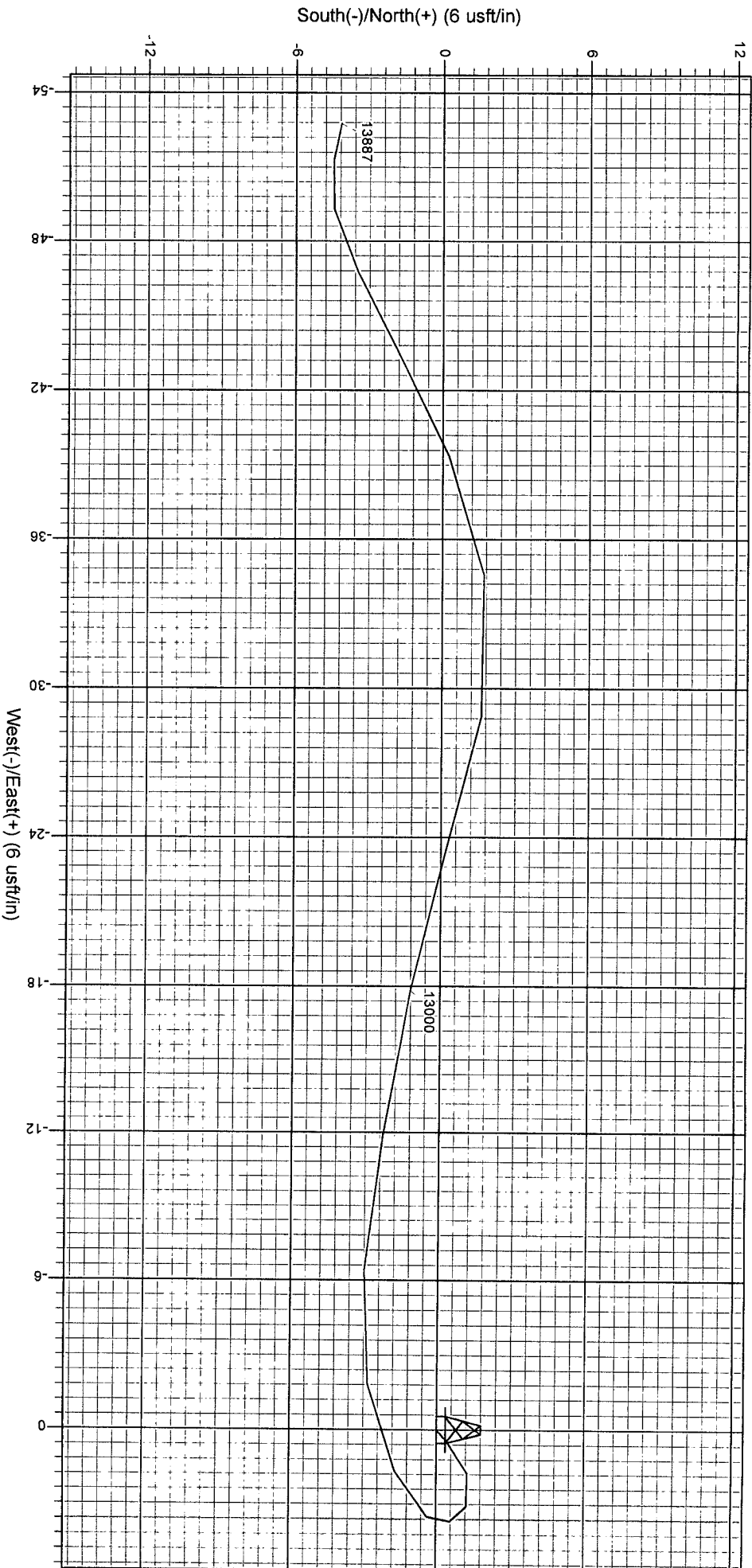
Directional Drilling Operations

Project: Johnson Ranch
Lea County, NM
Well: Thistle Unit #10
Wellbore: VH - Job #32K0910714
Design: VH - Job #32K0910714



Azimuths to Grid North
True North: -0.41°
Magnetic North: 7.32°
Magnetic Field
Strength: 48784.25nT
Dip Angle: 60.26°
Date: 9/24/2010
Model: BGM2010

WELL DETAILS: Thistle Unit #10
WELL @ 0.0usft (Original Well Elev)
Ground Level: 0.0
+N/-S 0.0 +E/-W 0.0
Northing 463075.47 Easting 738140.03
Latitude 32° 16' 14.740 N Longitude 103° 33' 46.310 W
Slot



PROJECT DETAILS: Johnson Ranch
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Lea County, NM
Site Centre Latitude: 32° 16' 14.740 N
Longitude: 103° 33' 46.310 W
Positional Uncertainty: 0.0
Convergence: 0.41
Local North: Grid



Survey Report

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MIN. CURVATURE CALCULATIONS (SPE-3362)

SUR: N-27-23s-33e, 850/S & 1820/W
BHL: N-27-23s-33e, 847/S & 1753/W
API # 30-025-39386

OPERATOR:	Devon Energy	START:	6/19/2010
WELL:	Thistle # 10	FINISH:	
LOCATION:	Lea Co. / New Mexico	JOB #:	10169639501
RIG:	H & P # 212	Bit to Survey	47
Directional Driller	Global DD	VERTICAL SECTION AZIMUTH:	
Directional Driller	N / A	TOTAL CORRECTION:	

STATION NUMBER	SURVEY DEPTH	INC	AZMTH	TVD	N-S	E-W	VERT. SECTION	DLS/ 100
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	8469.00	1.30	177.00	8468.27	-95.94	5.03	-95.94	0.02
2	8662.00	1.90	174.40	8661.20	-101.31	5.45	-101.31	0.31
3	8848.00	1.60	188.90	8847.11	-106.95	5.35	-106.95	0.29
4	9038.00	1.80	196.60	9037.03	-112.43	4.09	-112.43	0.16
5	9231.00	1.50	250.40	9229.96	-116.18	0.85	-116.18	0.79
6	9416.00	2.30	288.30	9414.86	-115.83	-4.96	-115.83	0.78
7	9605.00	1.80	247.20	9603.75	-115.79	-11.30	-115.79	0.80
8	9792.00	2.00	265.90	9790.65	-117.16	-17.26	-117.16	0.35
9	9981.00	2.40	304.10	9979.52	-115.17	-23.83	-115.17	0.79
10	10171.00	4.50	283.20	10169.17	-111.24	-34.38	-111.24	1.27
11	10265.00	4.50	274.40	10262.88	-110.12	-41.65	-110.12	0.73
12	10360.00	4.10	273.80	10357.61	-109.61	-48.75	-109.61	0.42
13	10454.00	3.40	278.30	10451.41	-108.98	-54.86	-108.98	0.81
14	10548.00	3.30	274.70	10545.25	-108.36	-60.32	-108.36	0.25
15	10644.00	3.10	278.40	10641.10	-107.75	-65.64	-107.75	0.30
16	10745.00	3.40	282.10	10741.94	-106.72	-71.27	-106.72	0.36
17	10825.00	3.40	278.30	10821.80	-105.88	-75.94	-105.88	0.28
18	10919.00	3.80	272.40	10915.61	-105.35	-81.81	-105.35	0.58
19	11013.00	4.10	272.70	11009.39	-105.06	-88.27	-105.06	0.32
20	11107.00	3.30	262.20	11103.20	-105.27	-94.31	-105.27	1.11
21	11206.00	2.70	255.60	11202.06	-106.24	-99.39	-106.24	0.70
22	11346.00	2.90	124.10	11341.98	-109.05	-99.66	-109.05	3.65
23	11376.00	2.90	116.30	11371.95	-109.81	-98.35	-109.81	1.31
24	11410.00	2.90	115.10	11405.90	-110.55	-96.80	-110.55	0.18
25	11441.00	2.90	121.20	11436.86	-111.29	-95.42	-111.29	1.00
26	11471.00	2.90	119.40	11466.83	-112.06	-94.11	-112.06	0.30
27	11503.00	2.90	116.20	11498.78	-112.81	-92.67	-112.81	0.51
28	11534.00	3.60	113.50	11529.73	-113.55	-91.08	-113.55	2.31
29	11563.00	4.00	113.60	11558.67	-114.31	-89.32	-114.31	1.38
30	11597.00	3.80	111.40	11592.59	-115.20	-87.18	-115.20	0.73
31	11629.00	2.40	98.10	11624.54	-115.68	-85.53	-115.68	4.89
32	11658.00	1.80	45.10	11653.53	-115.45	-84.61	-115.45	6.72
33	11691.00	3.80	100.10	11686.49	-115.27	-83.16	-115.27	9.50
34	11723.00	5.50	55.60	11718.39	-114.59	-80.85	-114.59	12.04
35	11754.00	5.90	55.70	11749.24	-112.85	-78.31	-112.85	1.29
36	11848.00	3.70	52.40	11842.91	-108.28	-71.91	-108.28	2.36
37	11943.00	3.30	51.80	11937.73	-104.72	-67.34	-104.72	0.42
38	12039.00	2.50	51.20	12033.60	-101.70	-63.53	-101.70	0.83
39	12131.00	1.70	47.30	12125.54	-99.52	-60.97	-99.52	0.88



Survey Report

MIN. CURVATURE CALCULATIONS (SPE-3362)

OPERATOR:	Devon Energy	START:	6/19/2010
WELL:	Thistle # 10	FINISH:	
LOCATION:	Lea Co. / New Mexico	JOB #:	10169639501
RIG:	H & P # 212	Bit to Survey	47
Directional Driller	Global DD	VERTICAL SECTION AZIMUTH:	
Directional Driller	N / A	TOTAL CORRECTION:	

STATION NUMBER	SURVEY DEPTH	INC	AZMTH	TVD	N-S	E-W	VERT. SECTION	DLS/ 100
40	12227.00	0.70	91.80	12221.52	-98.57	-59.33	-98.57	1.35
41	12320.00	0.50	120.30	12314.52	-98.79	-58.42	-98.79	0.38
42	12382.00	0.60	125.70	12376.51	-99.12	-57.92	-99.12	0.18
43								



Survey Report

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MIN. CURVATURE CALCULATIONS (SPE-3362)

OPERATOR:	Devon Energy	START:	6/19/2010
WELL:	Thistle # 10	FINISH:	
LOCATION:	Lea Co. / New Mexico	JOB #:	10169639501
RIG:	H & P # 212	Bit to Survey	47
Directional Driller	Global DD	VERTICAL SECTION AZIMUTH:	
Directional Driller	N / A	TOTAL CORRECTION:	

STATION NUMBER	SURVEY DEPTH	INC	AZMTH	TVD	N-S	E-W	VERT. SECTION	DLS/ 100
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	8469.00	1.30	177.00	8468.27	-95.94	5.03	-95.94	0.02
2	8662.00	1.90	174.40	8661.20	-101.31	5.45	-101.31	0.31
3	8848.00	1.60	188.90	8847.11	-106.95	5.35	-106.95	0.29
4	9038.00	1.80	196.60	9037.03	-112.43	4.09	-112.43	0.16
5	9231.00	1.50	250.40	9229.96	-116.18	0.85	-116.18	0.79
6	9416.00	2.30	288.30	9414.86	-115.83	-4.96	-115.83	0.78
7	9605.00	1.80	247.20	9603.75	-115.79	-11.30	-115.79	0.80
8	9792.00	2.00	265.90	9790.65	-117.16	-17.26	-117.16	0.35
9	9981.00	2.40	304.10	9979.52	-115.17	-23.83	-115.17	0.79
10	10171.00	4.50	283.20	10169.17	-111.24	-34.38	-111.24	1.27
11	10265.00	4.50	274.40	10262.88	-110.12	-41.65	-110.12	0.73
12	10360.00	4.10	273.80	10357.61	-109.61	-48.75	-109.61	0.42
13	10454.00	3.40	278.30	10451.41	-108.98	-54.86	-108.98	0.81
14	10548.00	3.30	274.70	10545.25	-108.36	-60.32	-108.36	0.25
15	10644.00	3.10	278.40	10641.10	-107.75	-65.64	-107.75	0.30
16	10745.00	3.40	282.10	10741.94	-106.72	-71.27	-106.72	0.36
17	10825.00	3.40	278.30	10821.80	-105.88	-75.94	-105.88	0.28
18	10919.00	3.80	272.40	10915.61	-105.35	-81.81	-105.35	0.58
19	11013.00	4.10	272.70	11009.39	-105.06	-88.27	-105.06	0.32
20	11107.00	3.30	262.20	11103.20	-105.27	-94.31	-105.27	1.11
21	11206.00	2.70	255.60	11202.06	-106.24	-99.39	-106.24	0.70
22	11346.00	2.90	124.10	11341.98	-109.05	-99.66	-109.05	3.65
23	11376.00	2.90	116.30	11371.95	-109.81	-98.35	-109.81	1.31
24	11410.00	2.90	115.10	11405.90	-110.55	-96.80	-110.55	0.18
25	11441.00	2.90	121.20	11436.86	-111.29	-95.42	-111.29	1.00
26	11471.00	2.90	119.40	11466.83	-112.06	-94.11	-112.06	0.30
27	11503.00	2.90	116.20	11498.78	-112.81	-92.67	-112.81	0.51
28	11534.00	3.60	113.50	11529.73	-113.55	-91.08	-113.55	2.31
29	11563.00	4.00	113.60	11558.67	-114.31	-89.32	-114.31	1.38
30	11597.00	3.80	111.40	11592.59	-115.20	-87.18	-115.20	0.73
31	11629.00	2.40	98.10	11624.54	-115.68	-85.53	-115.68	4.89
32	11658.00	1.80	45.10	11653.53	-115.45	-84.61	-115.45	6.72
33	11691.00	3.80	100.10	11686.49	-115.27	-83.16	-115.27	9.50
34	11723.00	5.50	55.60	11718.39	-114.59	-80.85	-114.59	12.04
35	11754.00	5.90	55.70	11749.24	-112.85	-78.31	-112.85	1.29
36	11848.00	3.70	52.40	11842.91	-108.28	-71.91	-108.28	2.36
37	11943.00	3.30	51.80	11937.73	-104.72	-67.34	-104.72	0.42
38	12039.00	2.50	51.20	12033.60	-101.70	-63.53	-101.70	0.83
39	12131.00	1.70	47.30	12125.54	-99.52	-60.97	-99.52	0.88



GeoLogPlot

(Scale: 5":100')

Company: Lea Co., New Mexico

Well: Thistle # 10

Field: Wolf Camp

Well ID: 30-025-39386

Job Number: 101696390501

Location: Lat: N 32° 16' 14.74 " Long: W 103° 33' 48.31 "

Operator 1: Kenneth Heifner

Operator 2: Cameron Giacobbe

State: New Mexico

County: Lea Co.

Country: USA

Eleav KB: 25

Elev DF: 25

Elev GL: 0'

NOV 22 2010

ICD-10

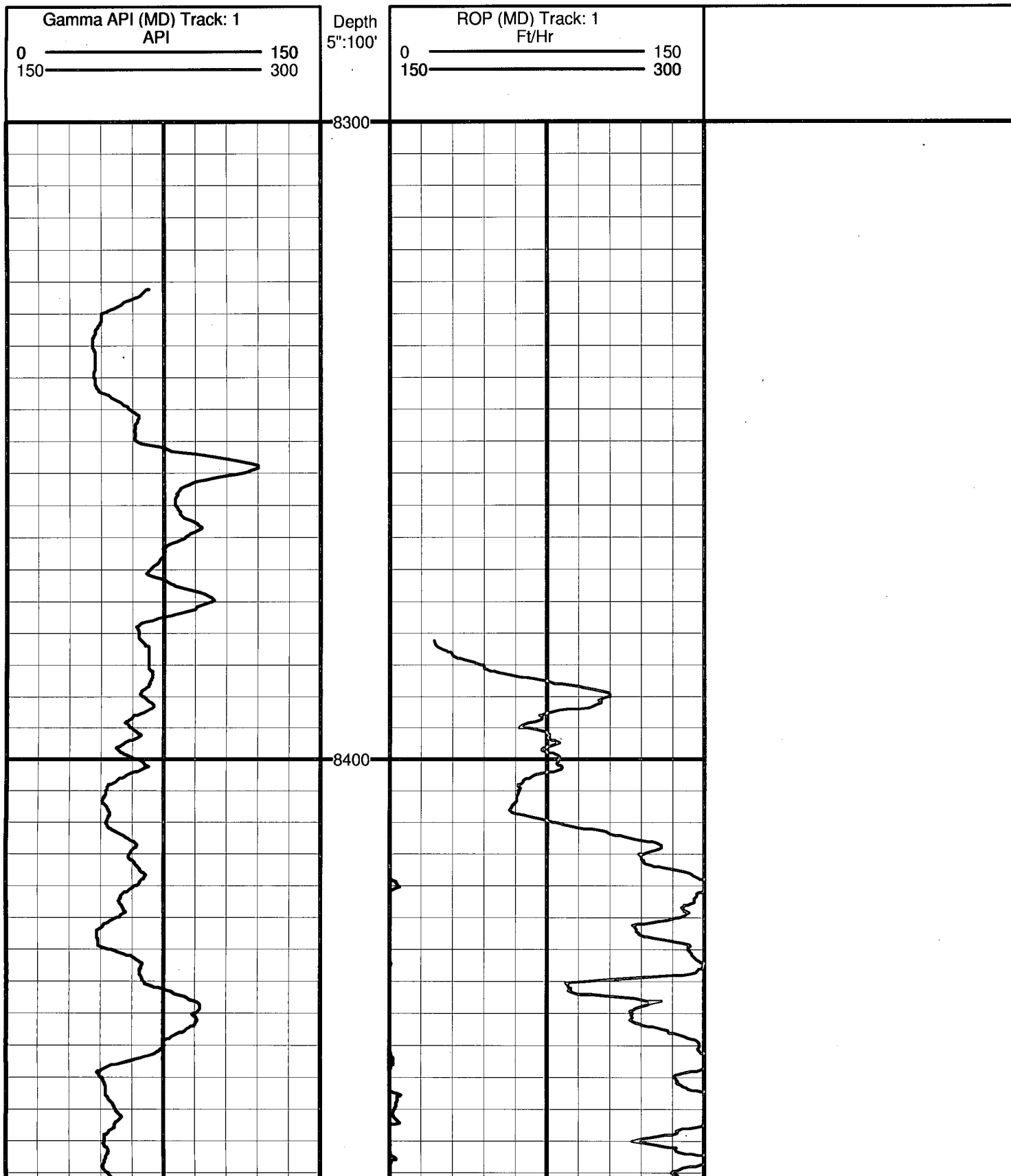
Comment 1:
Comment 2:
Comment 3:
Comment 4:
Comment 5:

Hole Data			Casing Record		
Size	From	To	Size	From	To
17.5"	0'	1355'	13.375"	0'	1355'
12.25"	0'	5300'	9.625"	0'	5300'

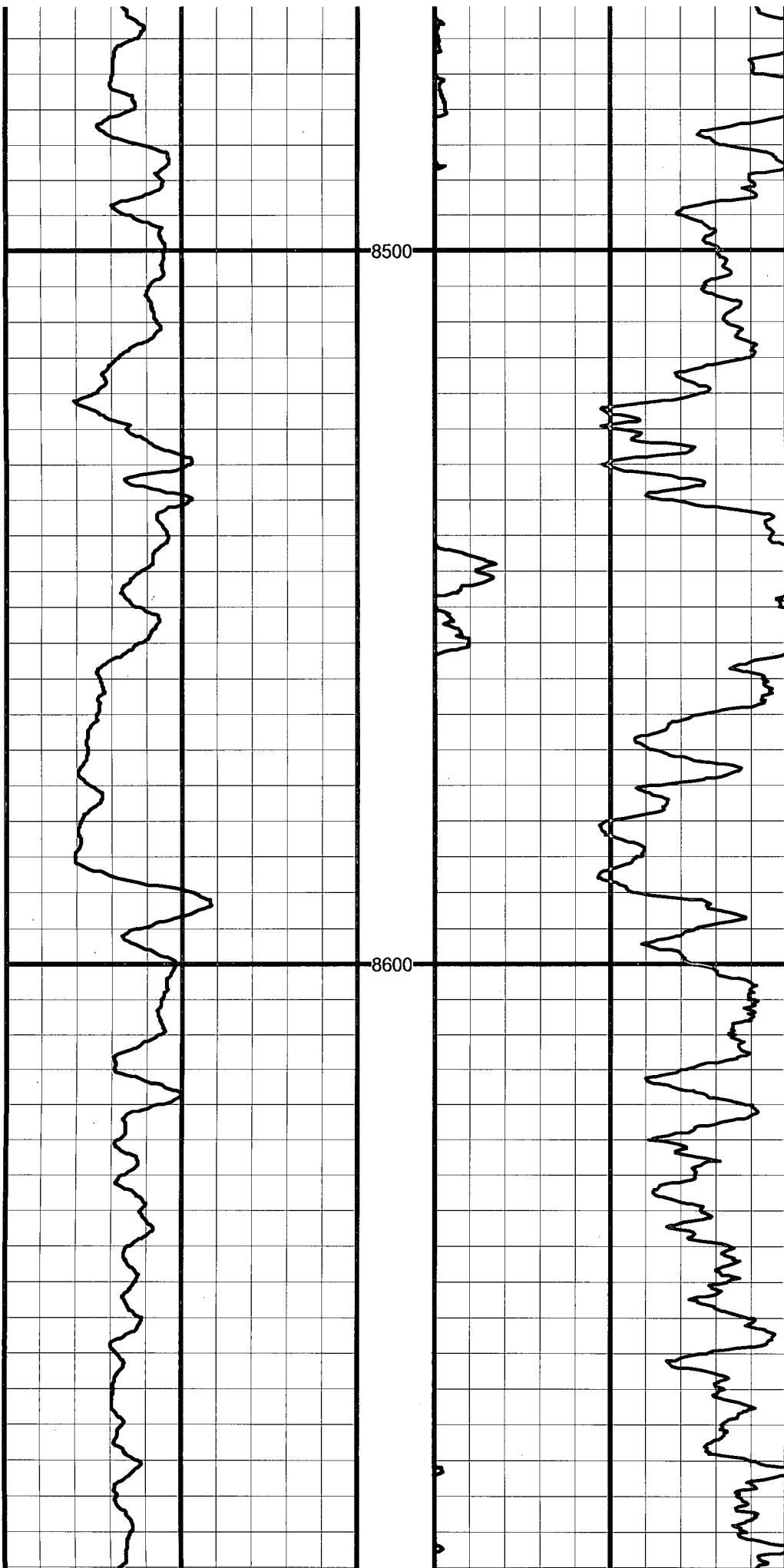
Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	6022	6034	6034	6034	6034
Cal Factor	4.28	4.28	4.28	4.28	4.28
Gamma Offset	55'	48'	41'	17'	42'
Start Depth	8382'	9883'	10721'	11751'	11751'
Start Date	6/20/10	6/21/10	6/24/10	6/26/10	7/1/10
Start Time	2:00	2:00	3:00	1:30	10:15
End Depth	9883'	10721'	11751'	11751'	11751'
End Date	6/21/10	6/24/10	6/26/10	6/27/10	7/2/10
End Time	2:00	3:00	1:30	2:00	23:45

Tool Run Data	Run #6	Run #7	Run #8	Run #9	Run #10
Tool S/N	6034	6043	None	6034	6022
Cal Factor	4.28	4.28	N / A	4.28	4.28
Offset	42'	42'	N / A	42'	42'
Start Depth	11751'	11293'	11714'	11696'	11990'
Start Date	7/3/10	7/6/10	7/13/10	7/17/10	7/19/10
Start Time	2330	530	430	0000	1000
End Depth	11751'	11773'	11714'	11990'	12135'
End Date	7/6/10	7/9/10	7/14/10	7/19/10	7/21/10
End Time	430	1800	330	330	100
Tool Run Data	Run #11	Run #12	Run #13	Run #14	Run #15
Tool S/N	6022				
Cal Factor	4.28				
Offset	47'				
Start Depth	12135'				
Start Date	7/21/10				
Start Time	100				
End Depth	12384'				

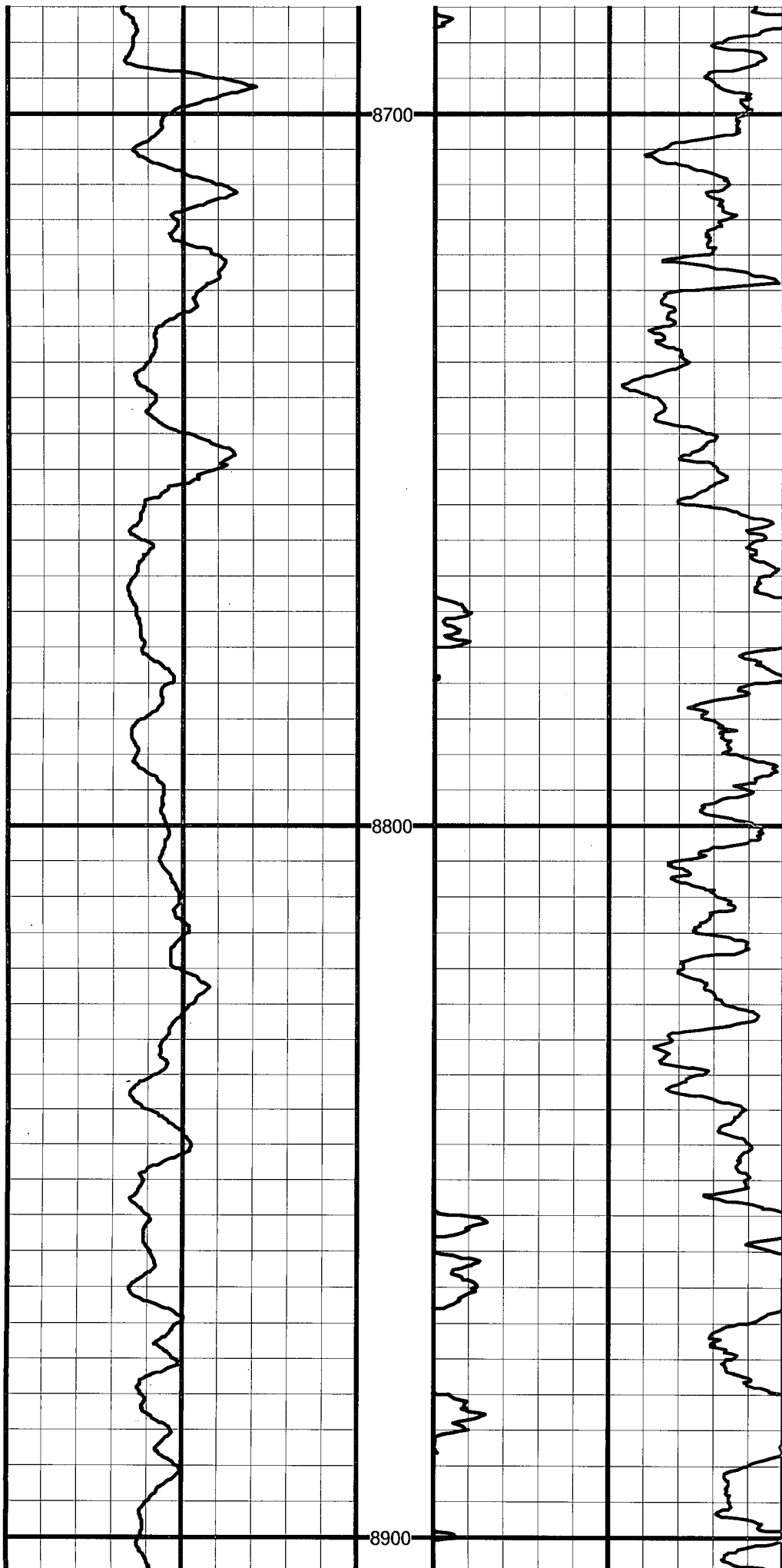
End Date	7/22/10				
End Time	1500				



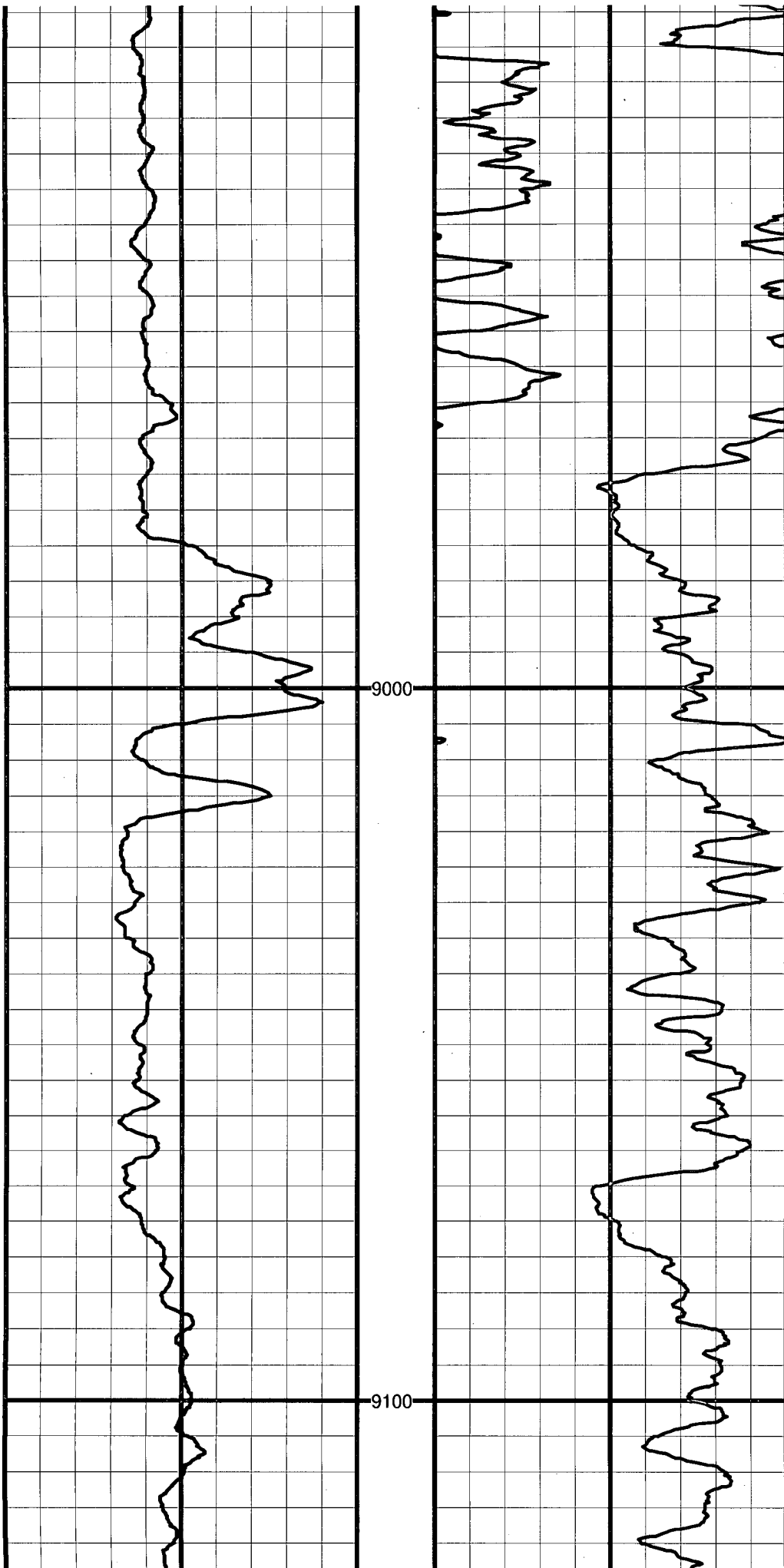
#1 MD:8469.0 TVD:8468.3 I:1.3 A:177.0 VS:-95.9



#2 MD:8662.0 TVD:8661.2 I:1.9 A:174.4 VS:-101.3



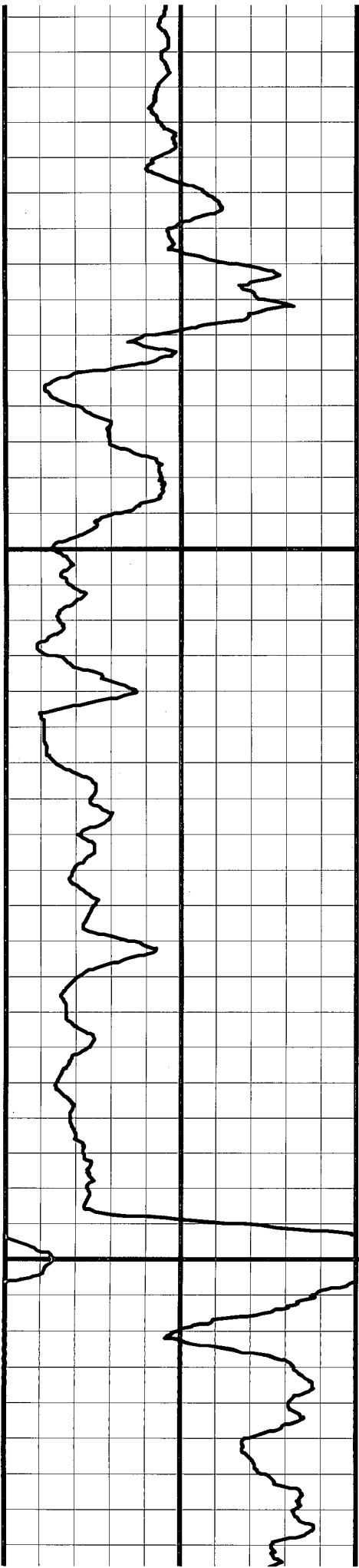
#3 MD:8848.0 TVD:8847.1 I:1.6 A:188.9 VS:-106.9



9000

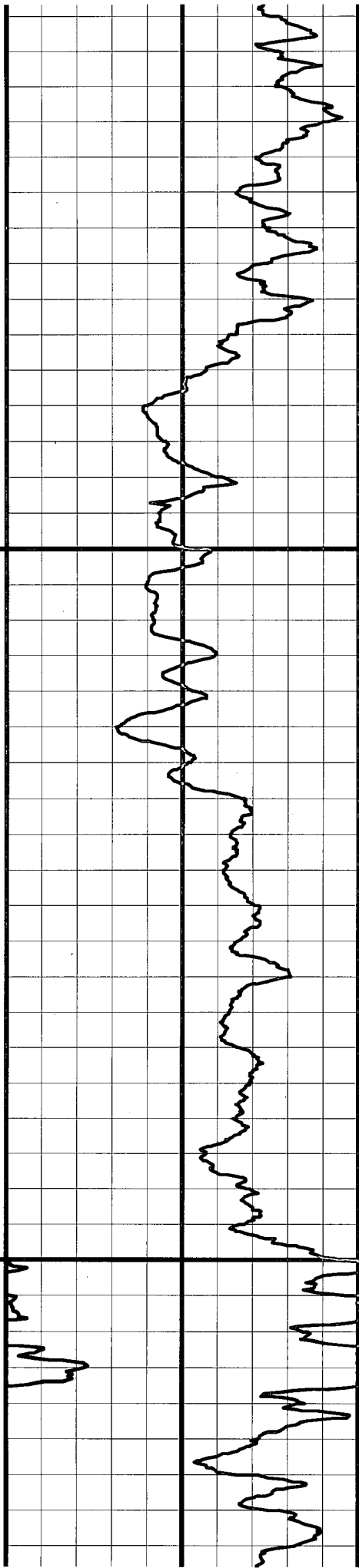
9100

#4 MD:9038.0 TVD:9037.0 I:1.8 A:196.6 VS:-112.4

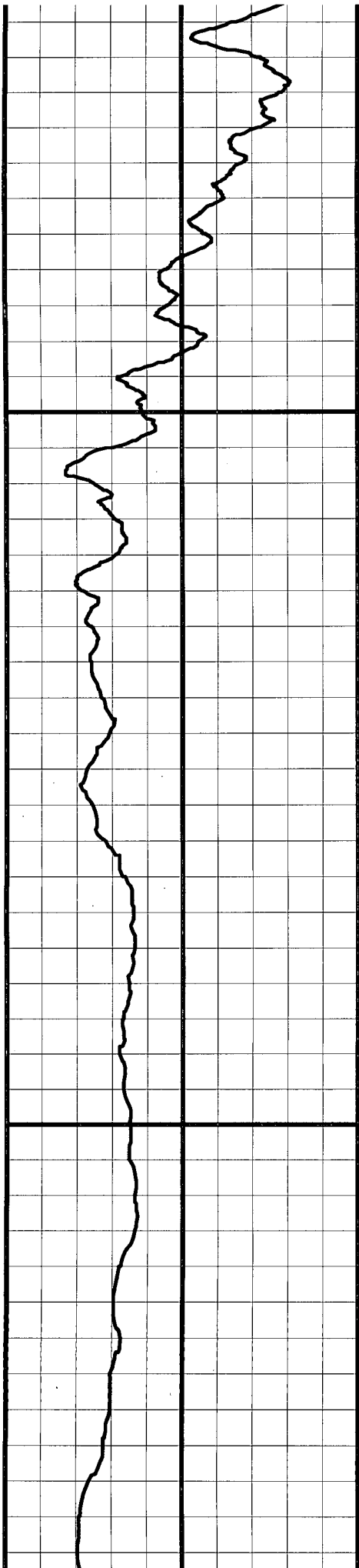


9200

9300

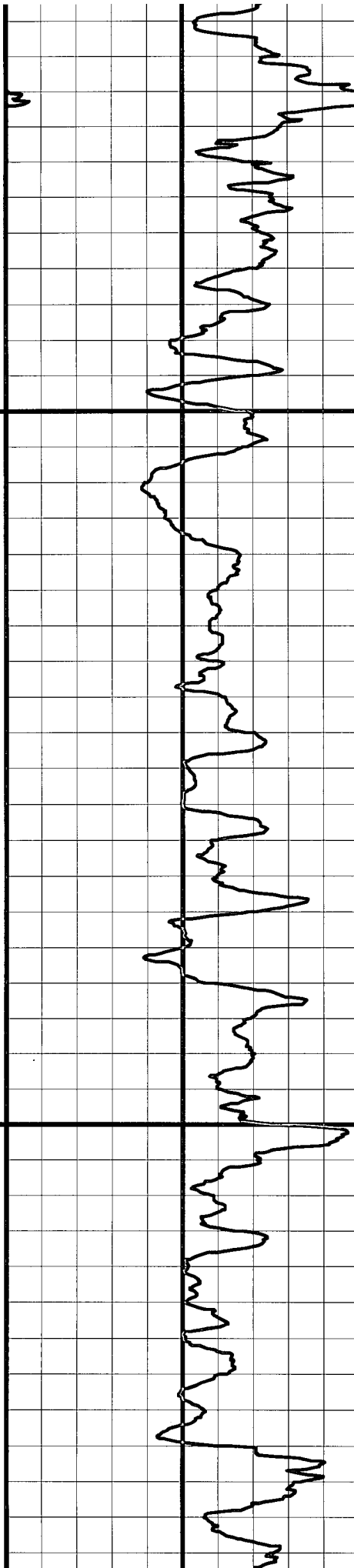


#5 MD:9231.0 TVD:9230.0 I:1.5 A:250.4 VS:-116.2

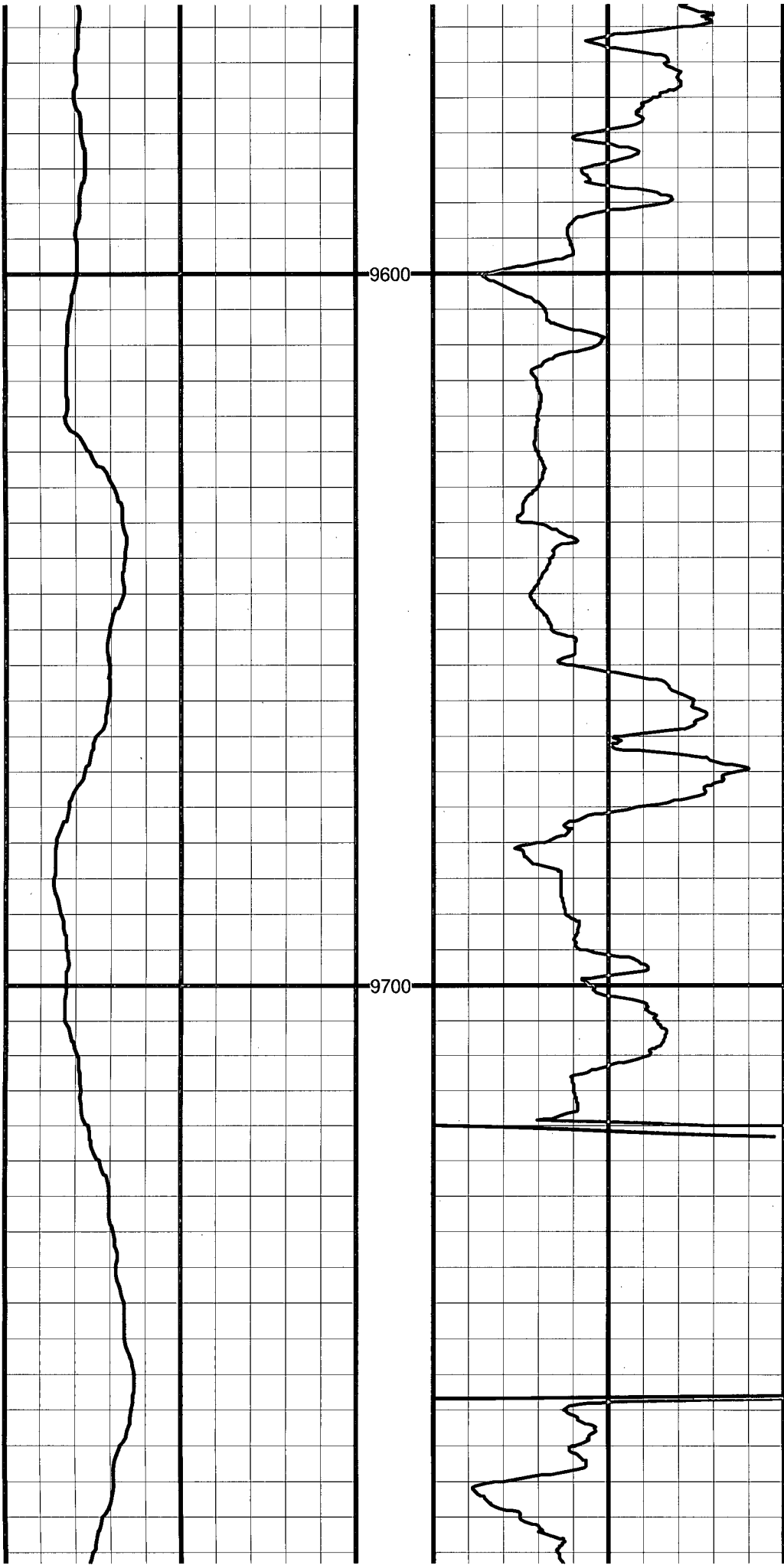


9400

9500



#6 MD:9416.0 TVD:9414.9 I:2.3 A:288.3 VS:-115.8



#7 MD:9605.0 TVD:9603.8 I:1.8 A:247.2 VS:-115.8

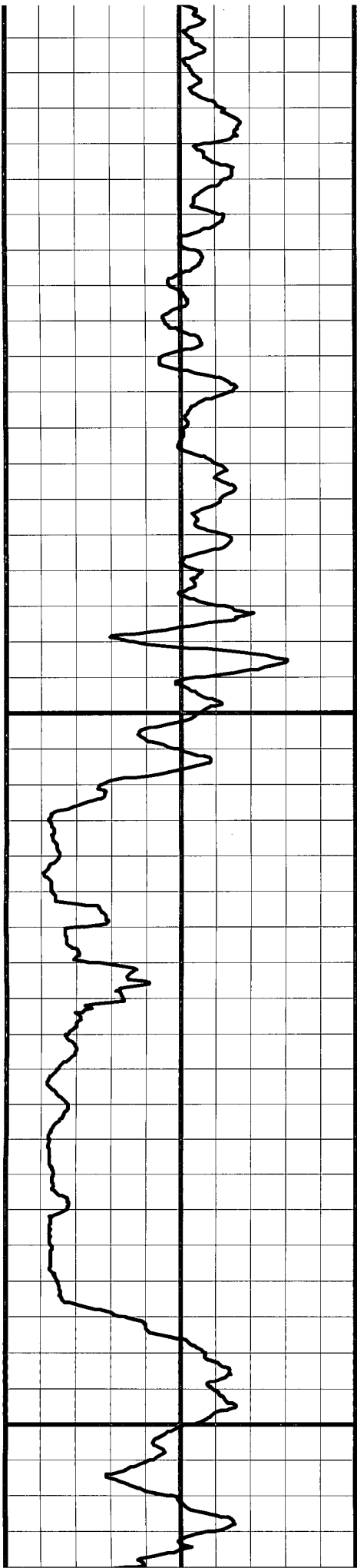
#8 MD:9792.0 TVD:9790.6 I:2.0 A:265.9 VS:-117.2

9800

9900

#9 MD:9981.0 TVD:9979.5 I:2.4 A:304.1 VS:-115.2

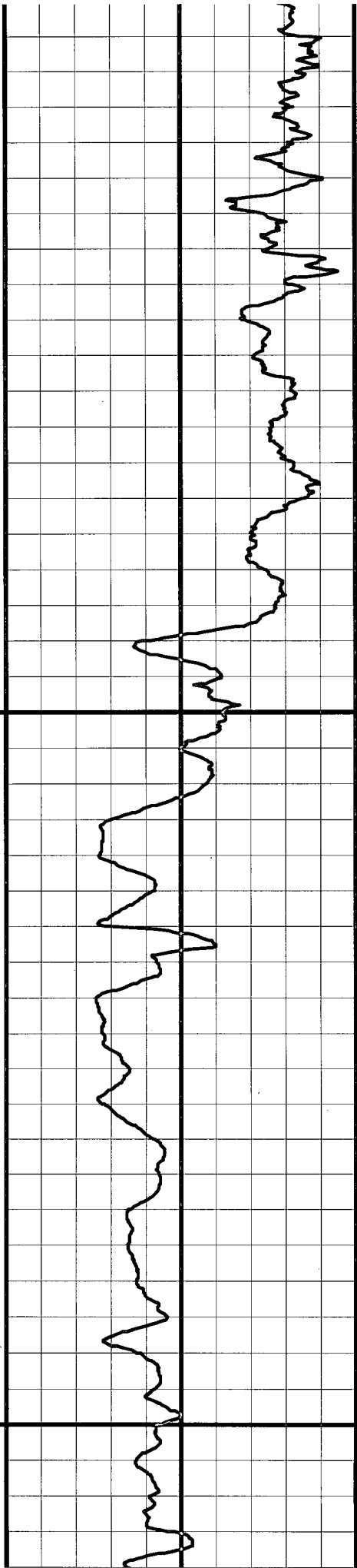
10000



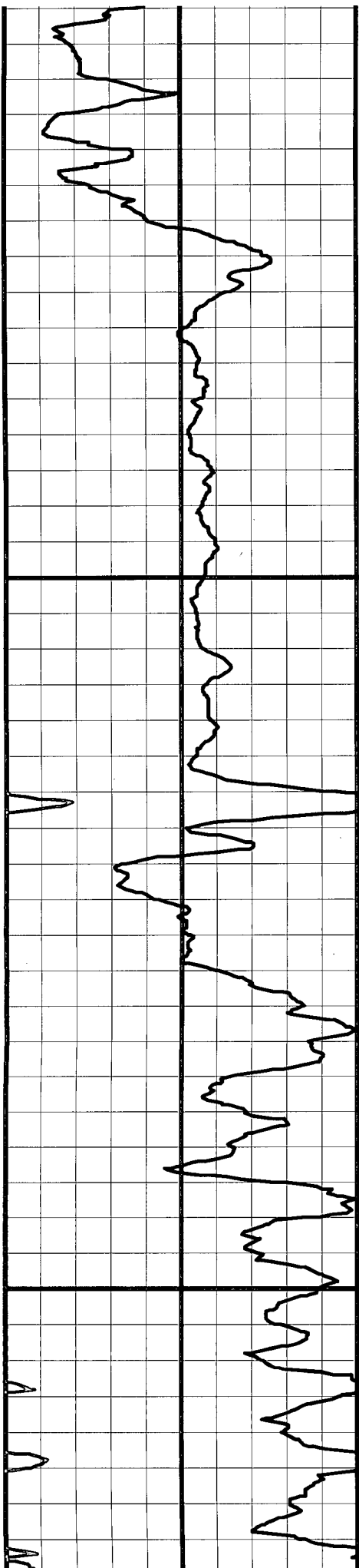
10000

10100

10200



#10 MD:10171.0 TVD:10169.2 I:4.5 A:283.2 VS:-111.2

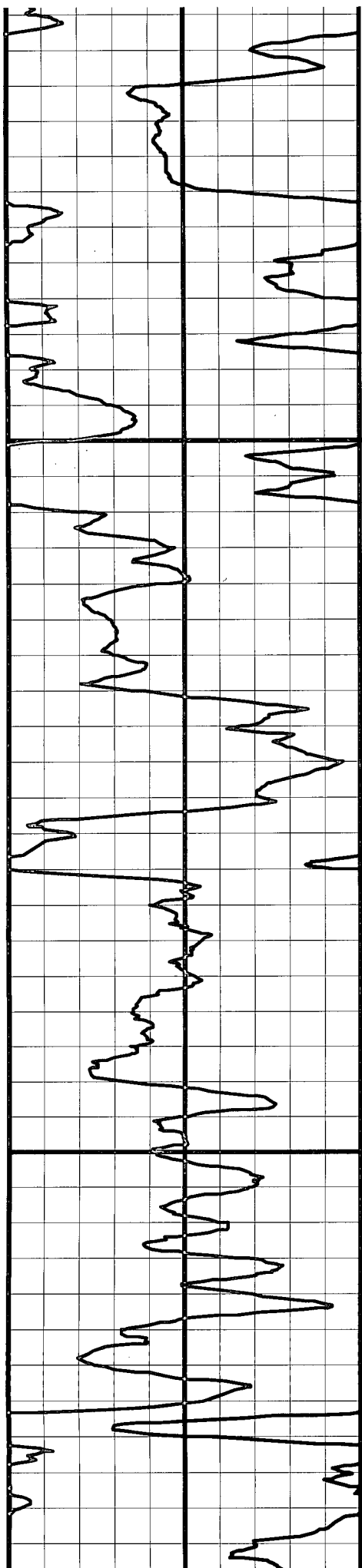


10300

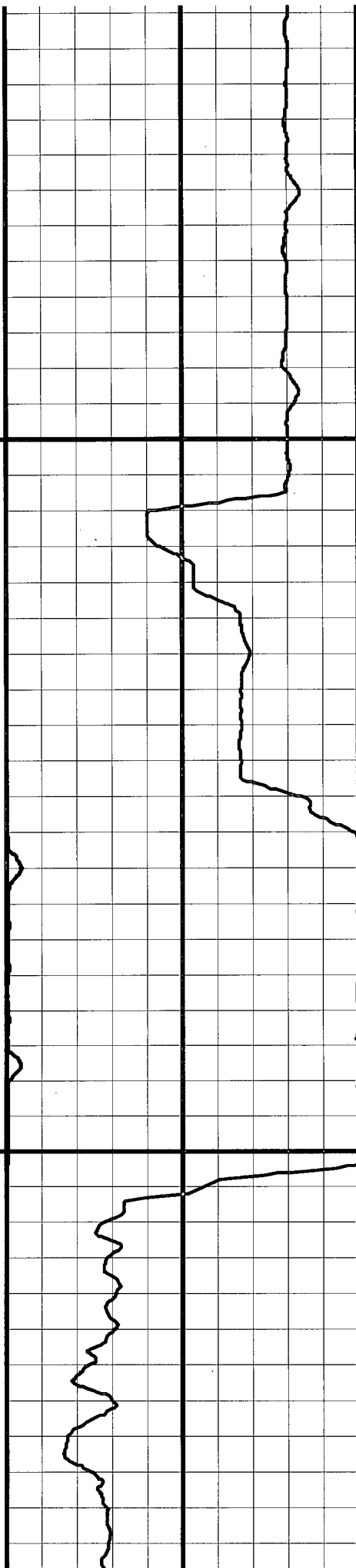
10400

#11 MD:10265.0 TVD:10262.9 I:4.5 A:274.4 VS:-110.1

#12 MD:10360.0 TVD:10357.6 I:4.1 A:273.8 VS:-109.6



10500

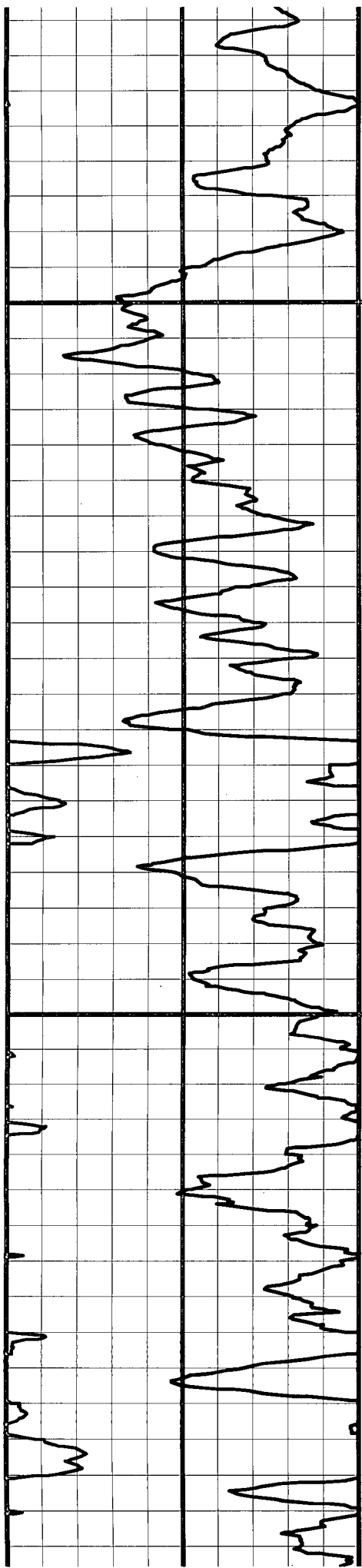


10600

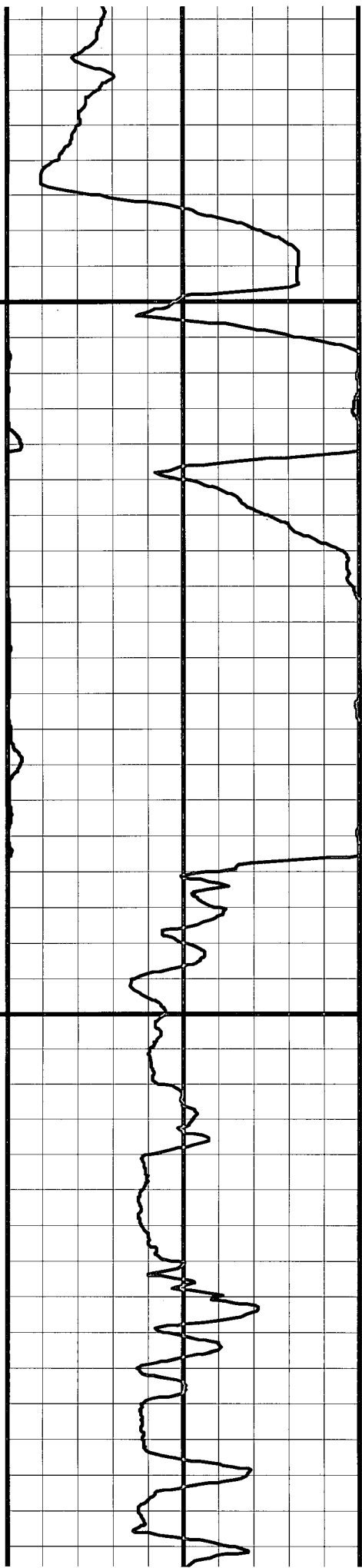
#13 MD:10454.0 TVD:10451.4 I:3.4 A:278.3 VS:-109.0

#14 MD:10548.0 TVD:10545.3 I:3.3 A:274.7 VS:-108.4

#15 MD:10644.0 TVD:10641.1 I:3.1 A:278.4 VS:-107.8



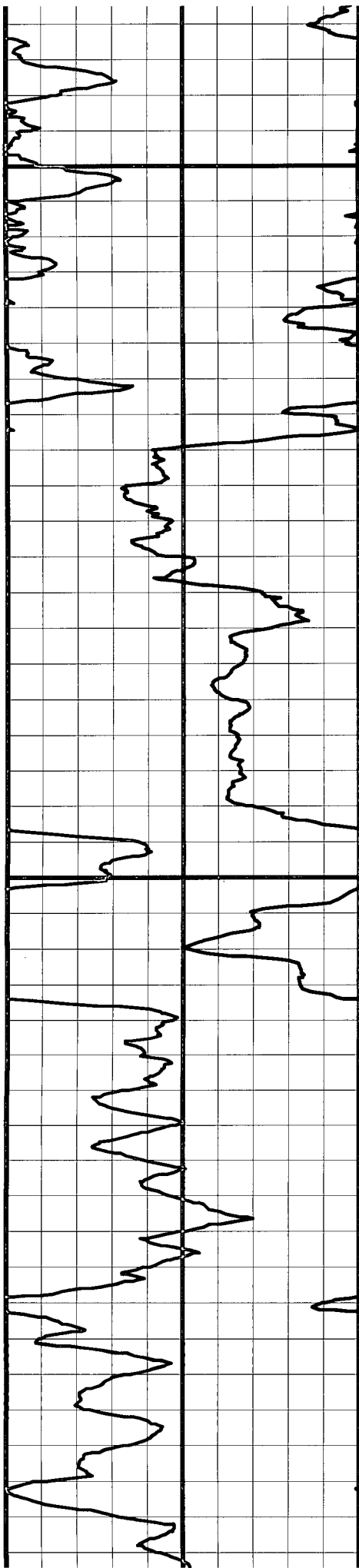
10700



10800

#16 MD:10745.0 TVD:10741.9 I:3.4 A:282.1 VS:-106.7

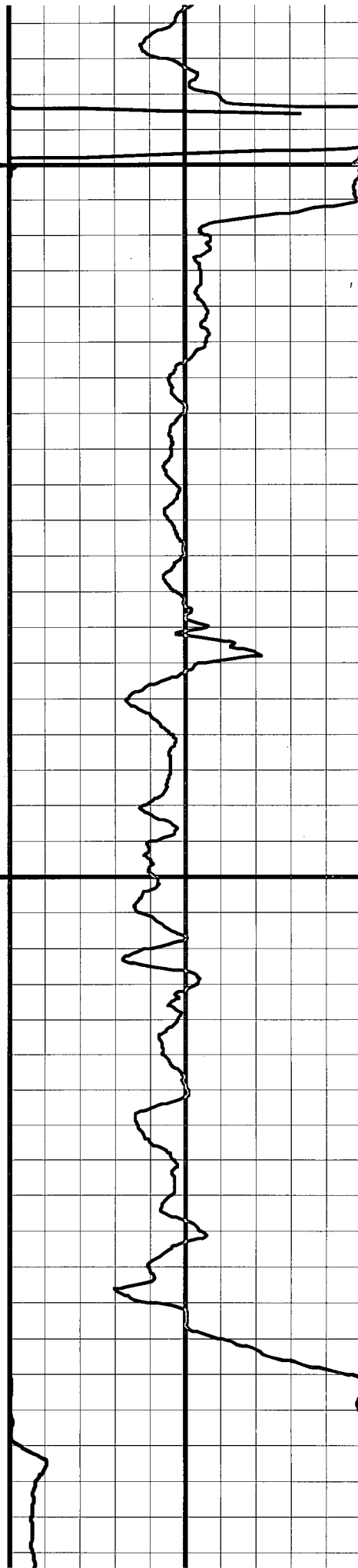
#17 MD:10825.0 TVD:10821.8 I:3.4 A:278.3 VS:-105.9



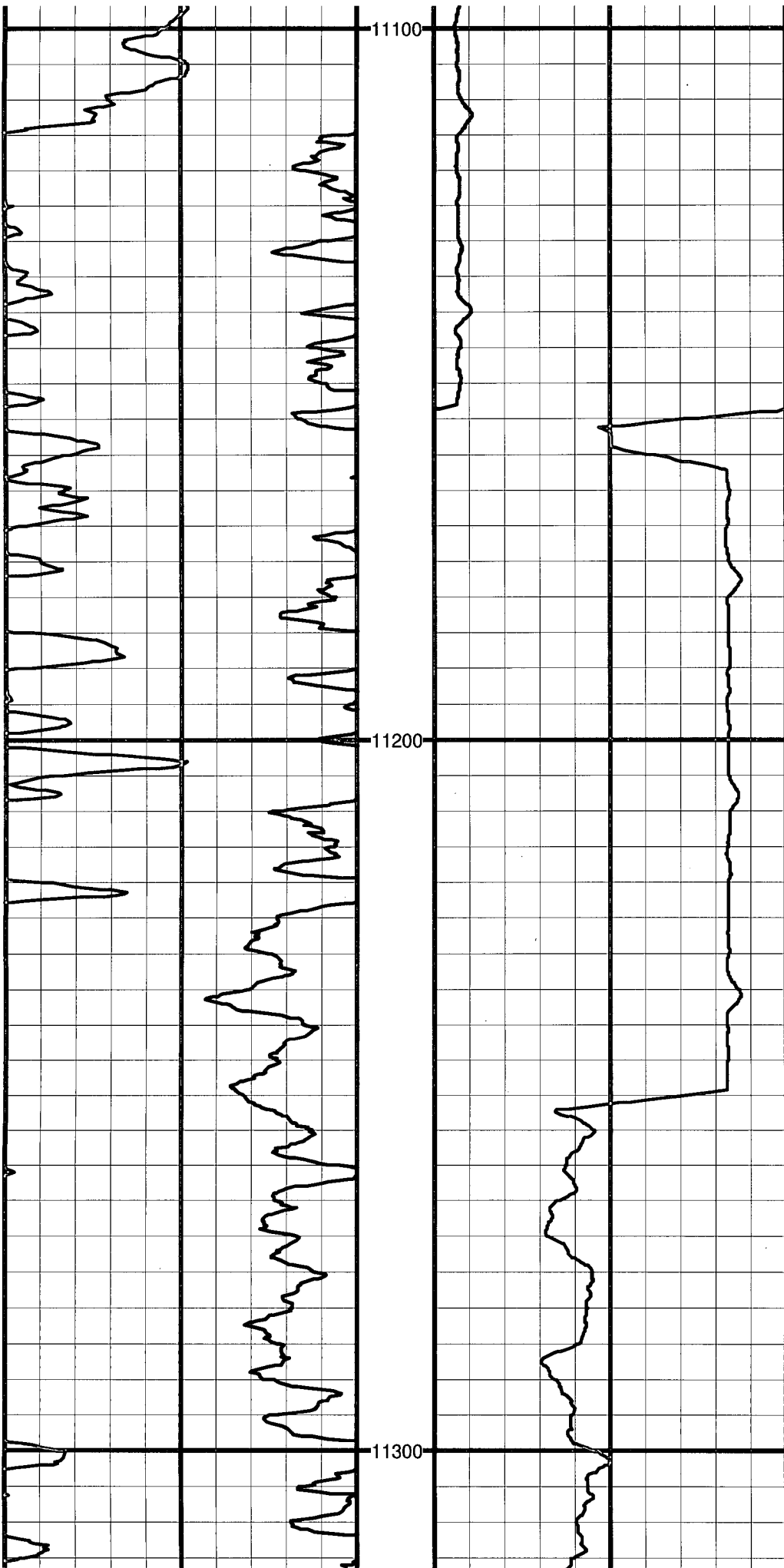
10900

11000

#18 MD:10919.0 TVD:10915.6 I:3.8 A:272.4 VS:-105.4

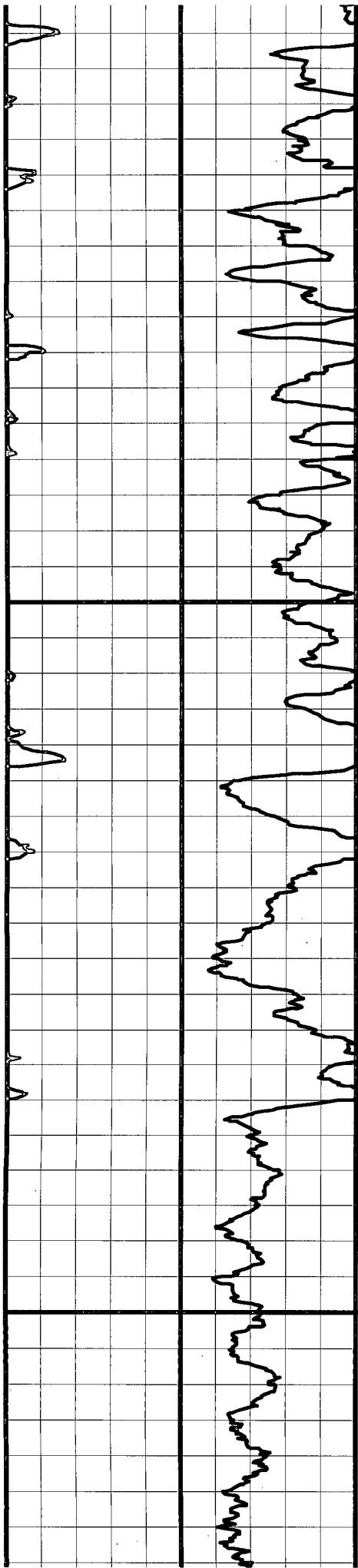


#19 MD:11013.0 TVD:11009.4 I:4.1 A:272.7 VS:-105.1



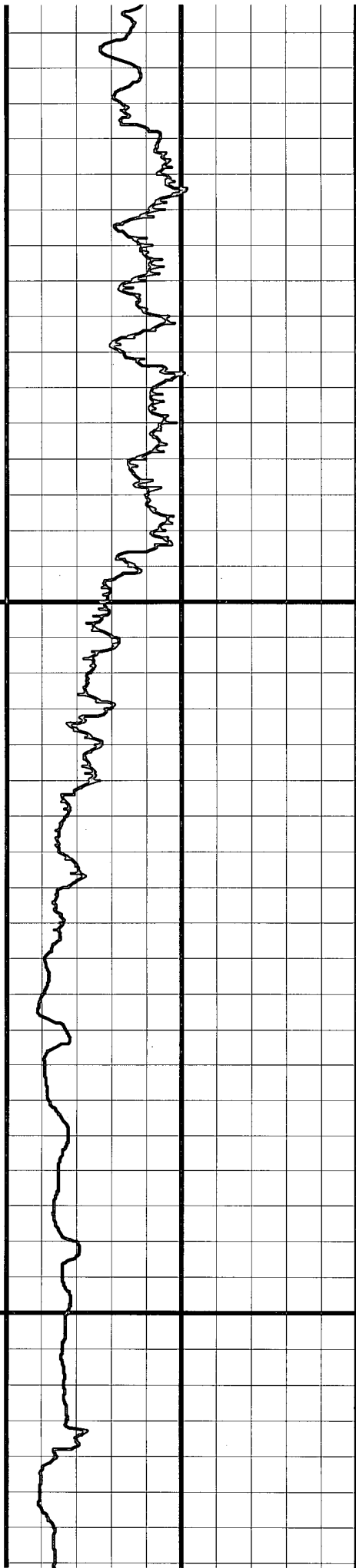
#20 MD:11107.0 TVD:11103.2 I:3.3 A:262.2 VS:-105.3

#21 MD:11206.0 TVD:11202.1 I:2.7 A:255.6 VS:-106.2



11400

11500



#22 MD:11346.0 TVD:11342.0 I:2.9 A:124.1 VS:-109.0

#23 MD:11376.0 TVD:11371.9 I:2.9 A:116.3 VS:-109.8

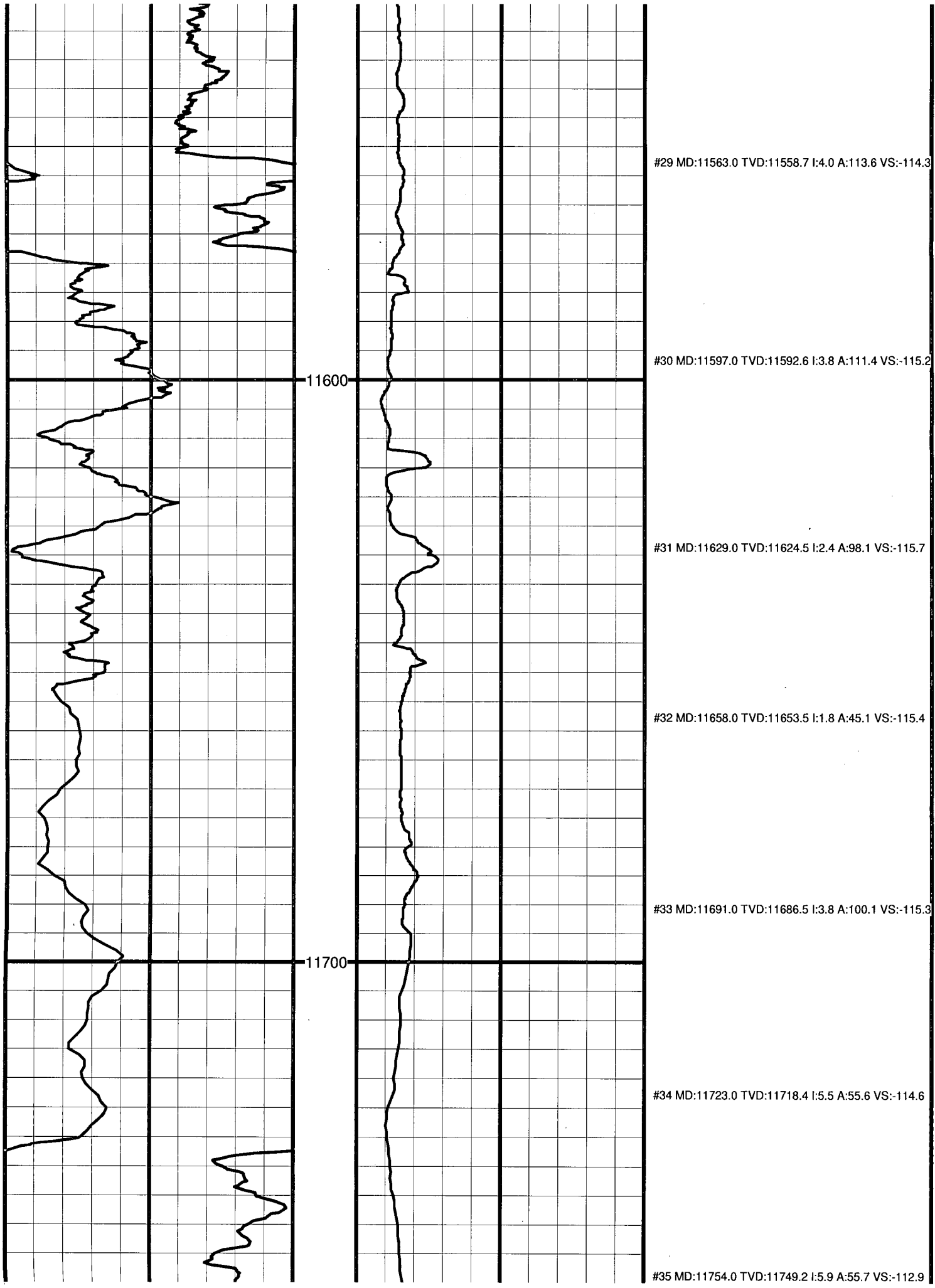
#24 MD:11410.0 TVD:11405.9 I:2.9 A:115.1 VS:-110.6

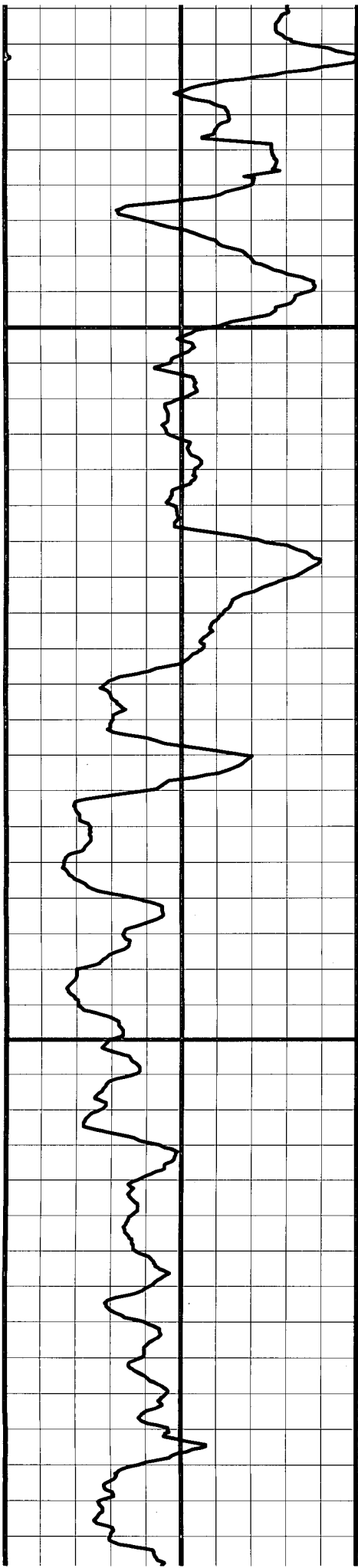
#25 MD:11441.0 TVD:11436.9 I:2.9 A:121.2 VS:-111.3

#26 MD:11471.0 TVD:11466.8 I:2.9 A:119.4 VS:-112.1

#27 MD:11503.0 TVD:11498.8 I:2.9 A:116.2 VS:-112.8

#28 MD:11534.0 TVD:11529.7 I:3.6 A:113.5 VS:-113.5

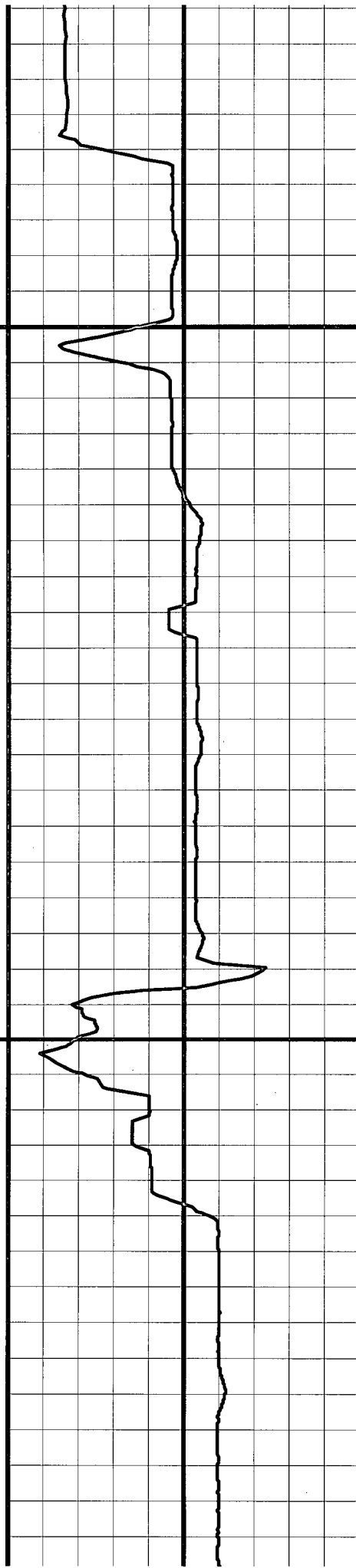




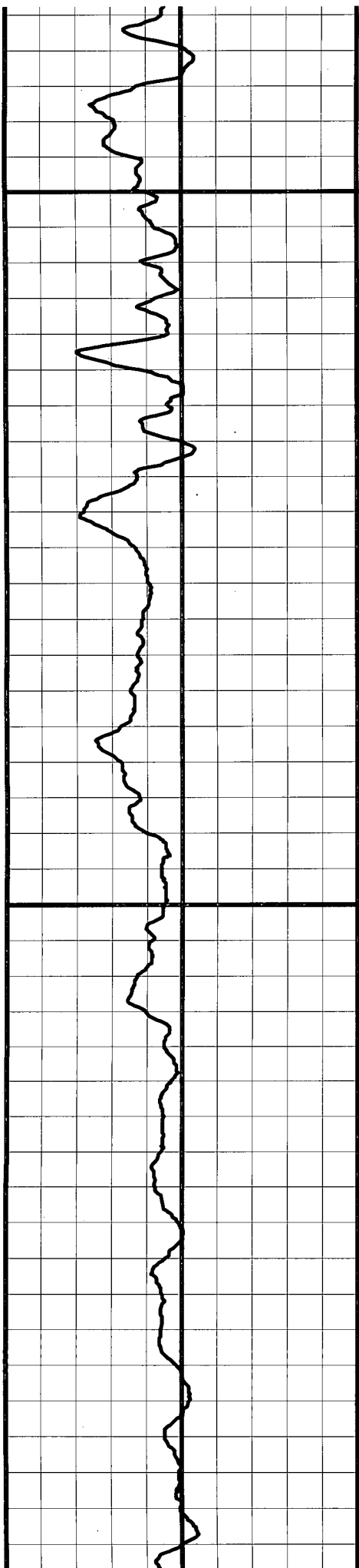
11800

11900

#36 MD:11848.0 TVD:11842.9 I:3.7 A:52.4 VS:-108.3

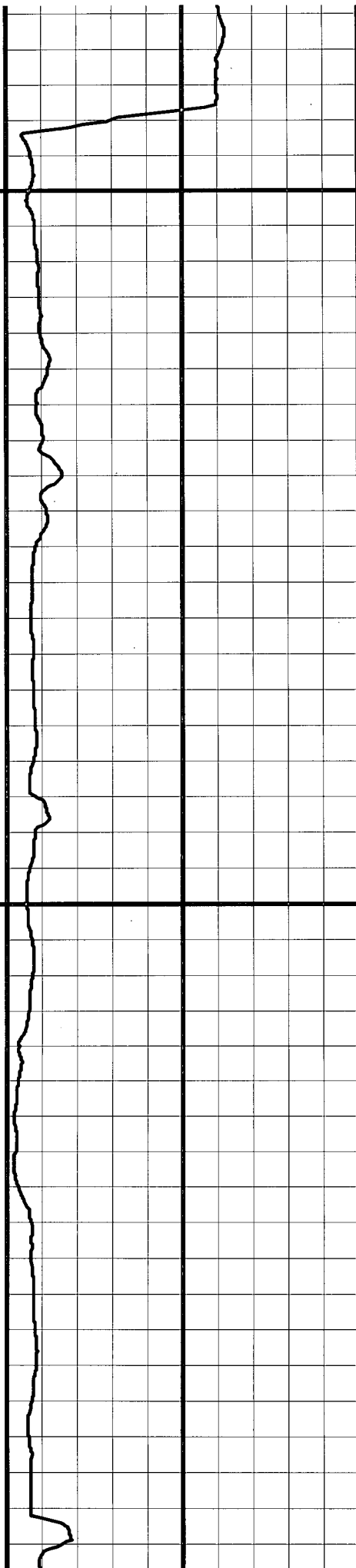


#37 MD:11943.0 TVD:11937.7 I:3.3 A:51.8 VS:-104.7



12000

12100



#38 MD:12039.0 TVD:12033.6 I:2.5 A:51.2 VS:-101.7

#39 MD:12131.0 TVD:12125.5 I:1.7 A:47.3 VS:-99.5

