pt 24

SUPERIOR WELL SERVICES

SUPERIOR
Black Lick, Pa
Mercer, Pa
Wooster, Ohio
Cleveland, Ok

COMPENSATED DENSITY NEUTRON LOG

Company	CALUMET OIL COMPANY
Well	NBU # 39-29
Field	
County	OSAGE
State	OKLAHOMA

Company CALUMET OIL COMPANY
Well NBU # 39-29
Field
County OSAGE State OKLAHOMA
Location: API #:
NW/4
1680' FWL & 780' FSL
SEC 23 TWP 27N RGE 5E

Permanent Datum	GL	Elevation	1133'
Log Measured From	KB		
Drilling Measured From	KB		

Other Services
DIL

Elevation
K.B. 1140'
D.F. —
G.L. 1133'

Date	10-26-05
Run Number	ONE
Depth Driller	3070'
Depth Logger	3069'
Bottom Logged Interval	3067'
Top Log Interval	1900'
Casing Driller	8 5/8" @ 215'
Casing Logger	214'
Bit Size	7 7/8"
Type Fluid in Hole	CHEM-GEL
Density / Viscosity	9.2 / 45
pH / Fluid Loss	9.1 / 6.4
Source of Sample	FLOWLINE
Rm @ Meas. Temp	4.0 @ 75
Rmf @ Meas. Temp	3.8 @ 75
Rmc @ Meas. Temp	3.0 @ 75
Source of Rmf / Rmc	C/C
Rm @ BHT	2.7 @ 110
Time Circulation Stopped	2230
Time Logger on Bottom	2300
Maximum Recorded Temperature	110
Equipment Number	180
Location	HOMINY,OK
Recorded By	LOWERY
Witnessed By	MR. HUNSACKER

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

180-4079
MATRIX LIMESTONE 2.71 G/CC
ABHV COMPUTED WITH 5 1/2" CASING
CREW: RICKETTS, RIGGINS

SUPERIOR WELL SERVICES

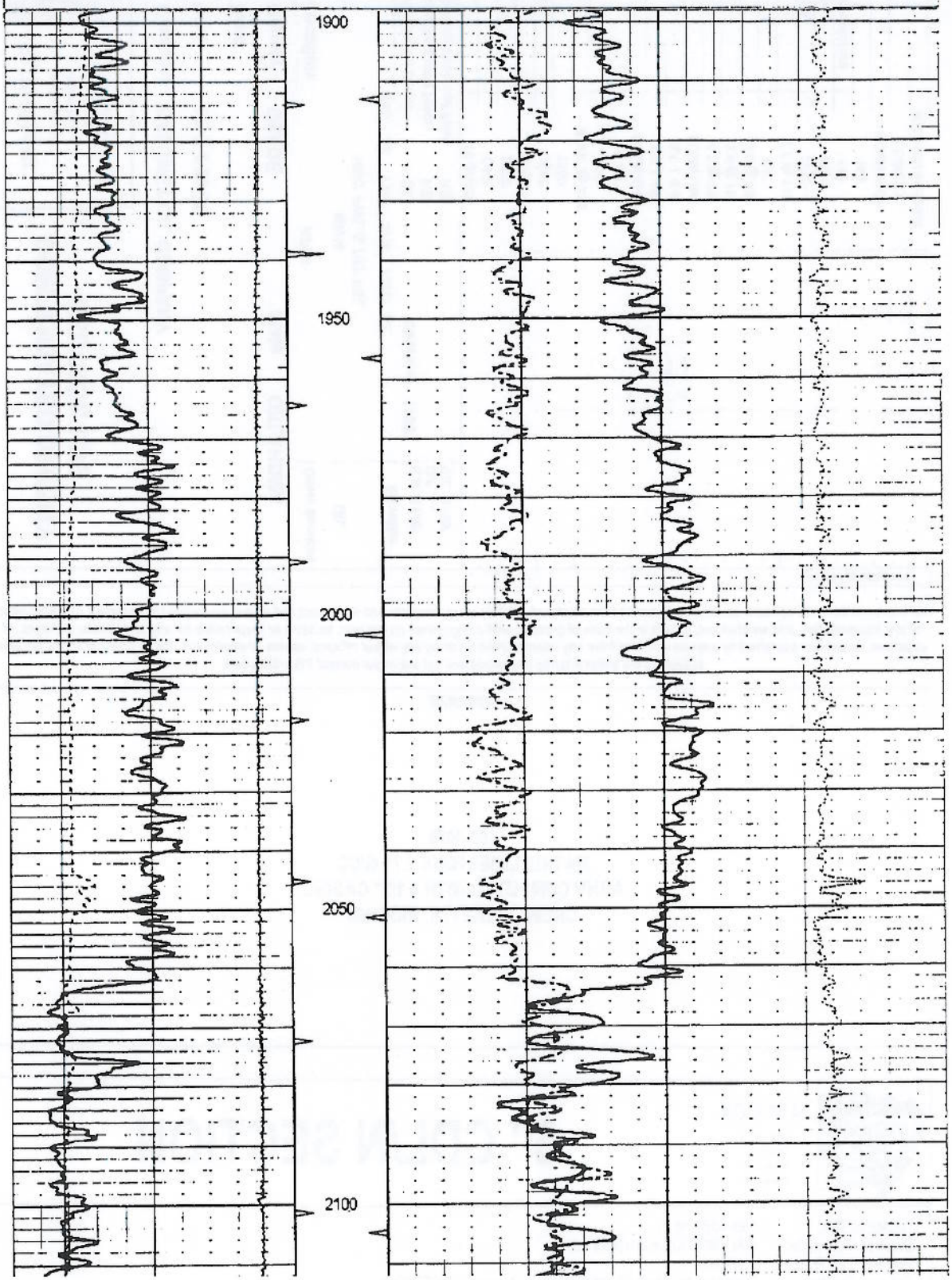
SUPERIOR
Black Lick, Pa
Mercer, Pa
Wooster, Ohio
Cleveland, Ok

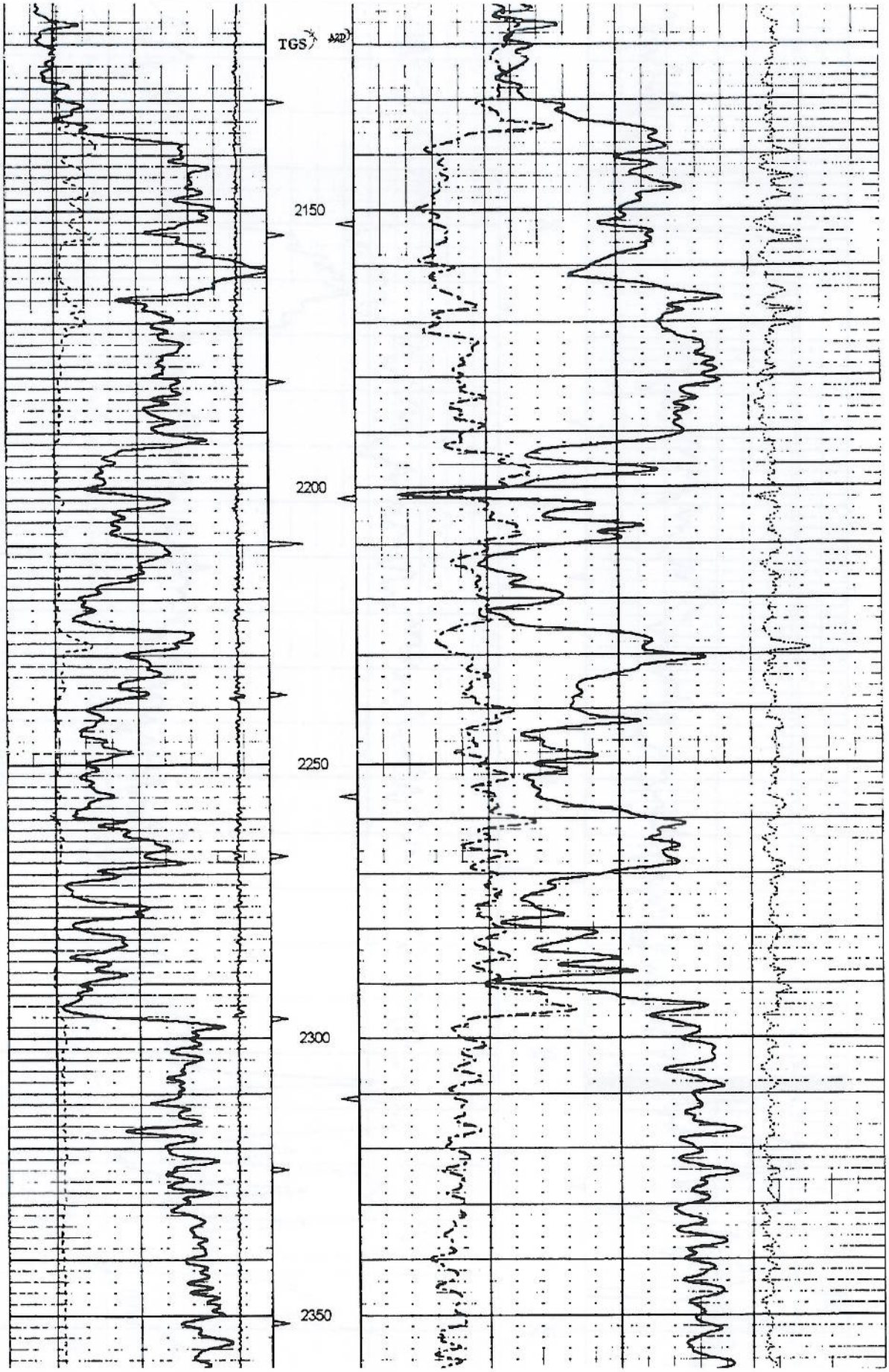
5" CDL/N SECTION

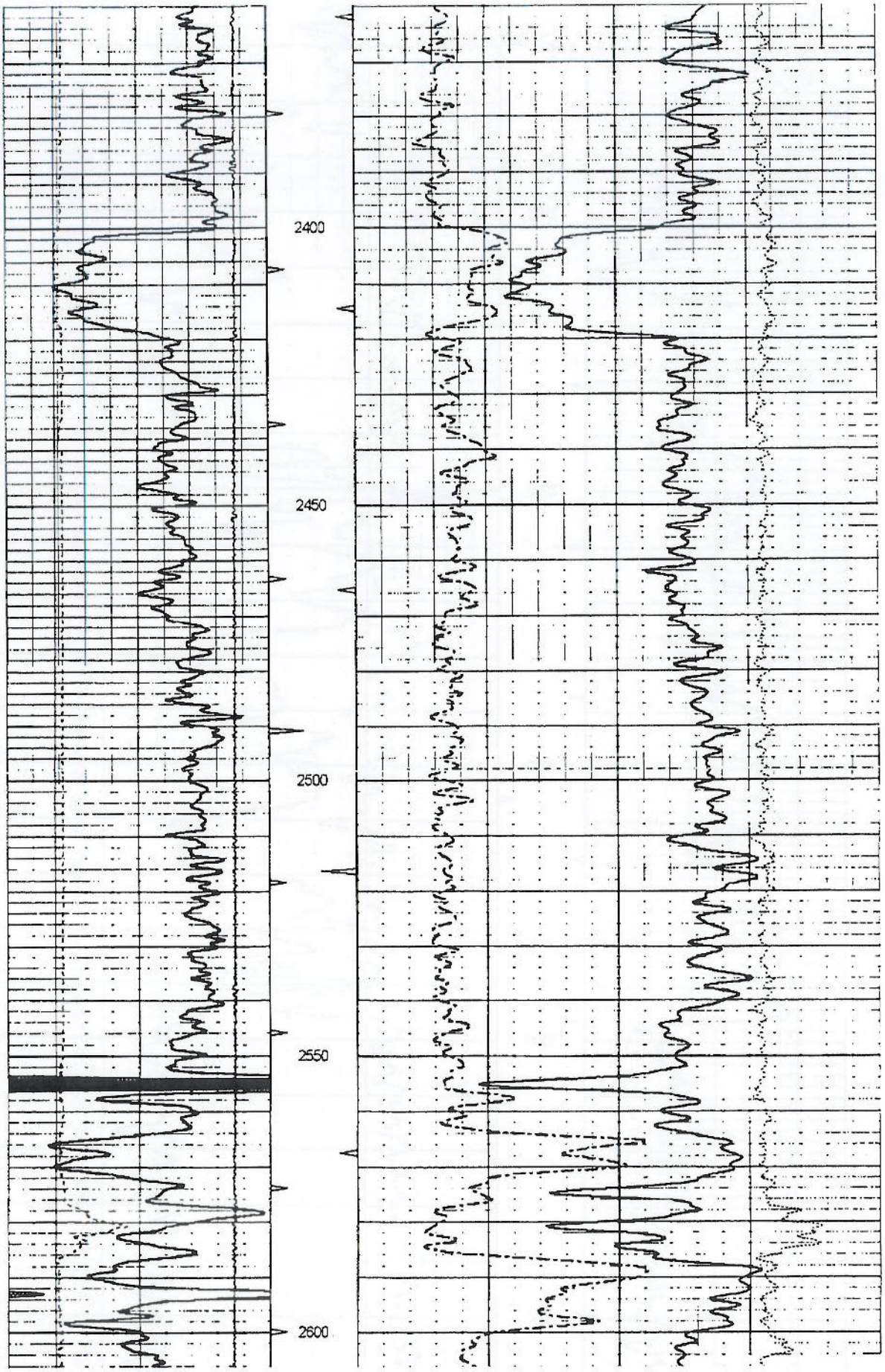
Database File: 180-4079.db
Dataset Pathname: CALUMET/JH/run1/pass1.3
Presentation Format: _avpor5
Dataset Creation: Wed Oct 26 23:43:08 2005 by Cole Warrior 7.0-STD Opp

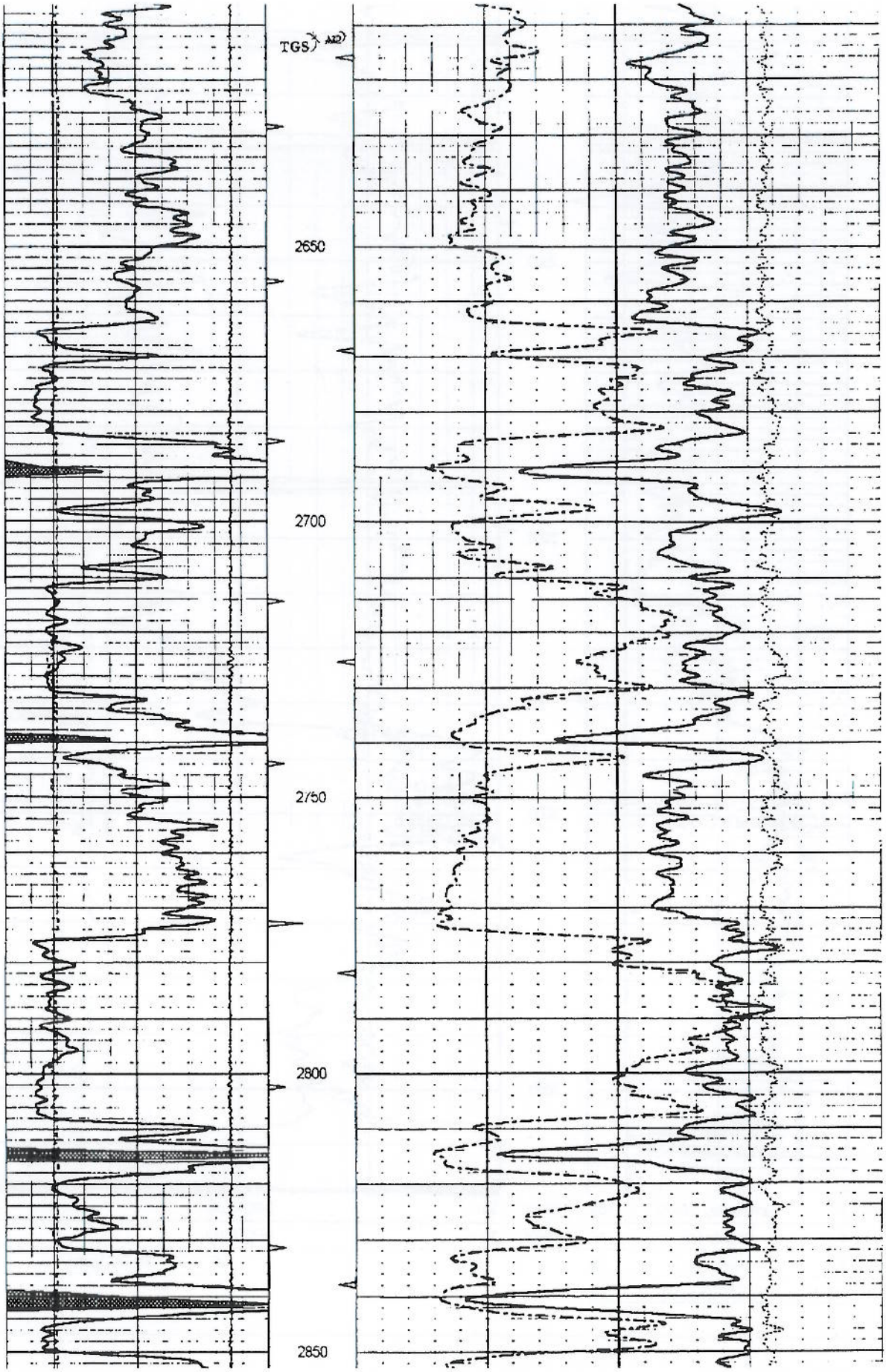
Dataset Creation: Wed Oct 28 23:45:00 2003 by Calc Warrior 7.0 STD Ope
Charted by: Depth in Feet scaled 1:240

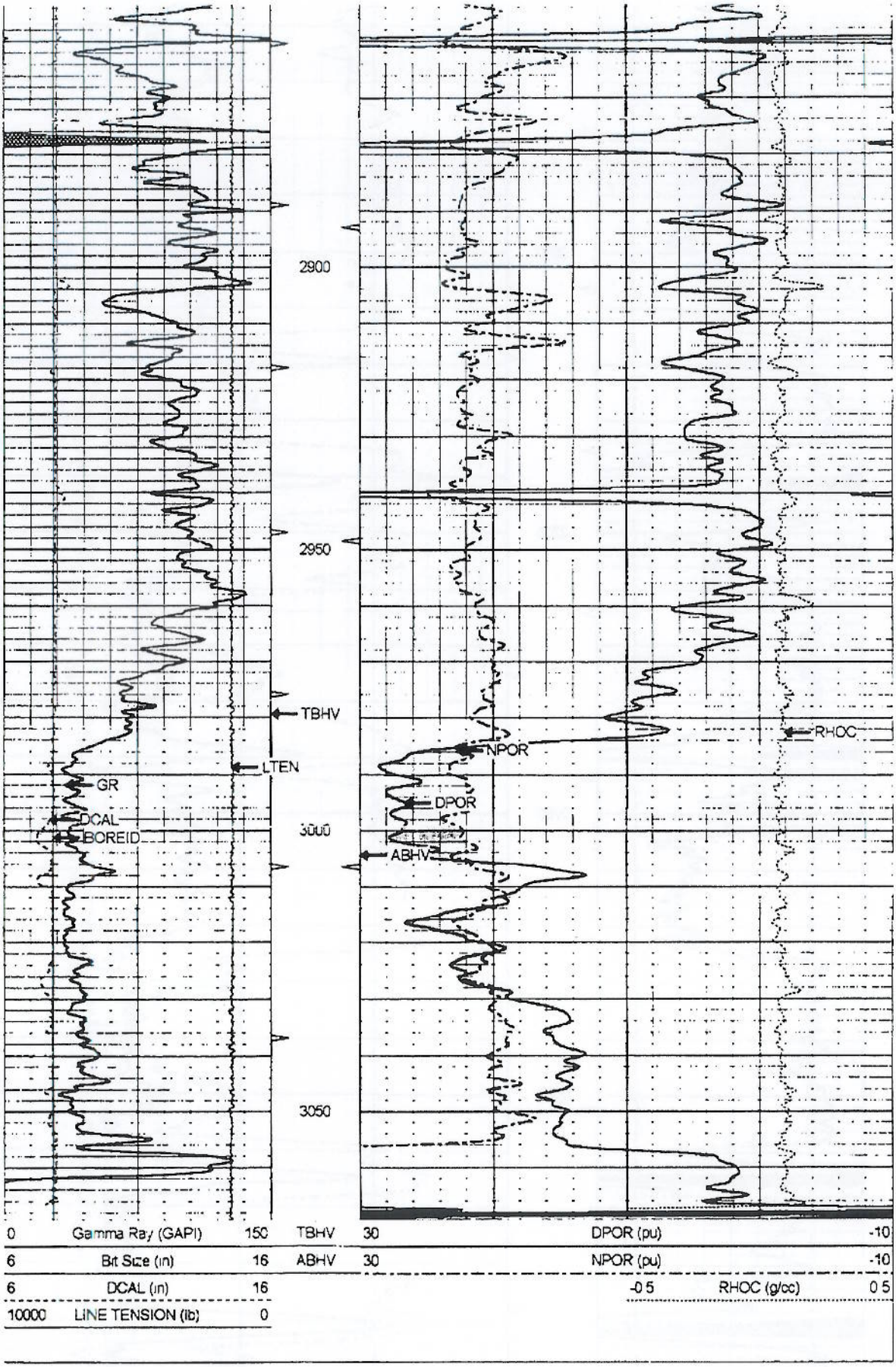
0	Gamma Ray (GAPI)	150	TBHV	30	DPOR (pu)		-10
6	Bit Size (in)	16	ABHV	30	NPOR (pu)		-10
6	DCAL (in)	16			-0.5	RHOC (g/cc)	0.5
10000	LINE TENSION (lb)	0					




TGS
AD
2150
2200
2250
2300
2350


2400
2450
2500
2550
2600


TGS
2650
2700
2750
2800
2850


2900
2950
3000
3050
TBHV
LTEN
GR
DCAL
BOREID
NPOR
DPOR
ABHV
RHOC
0 Gamma Ray (GAPI) 150
6 Bit Size (in) 16
6 DCAL (in) 16
10000 LINE TENSION (lb) 0
TBHV 30 DPOR (pu) -10
ABHV 30 NPOR (pu) -10
-0 5 RHOC (g/cc) 0 5

SUPERIOR WELL SERVICES

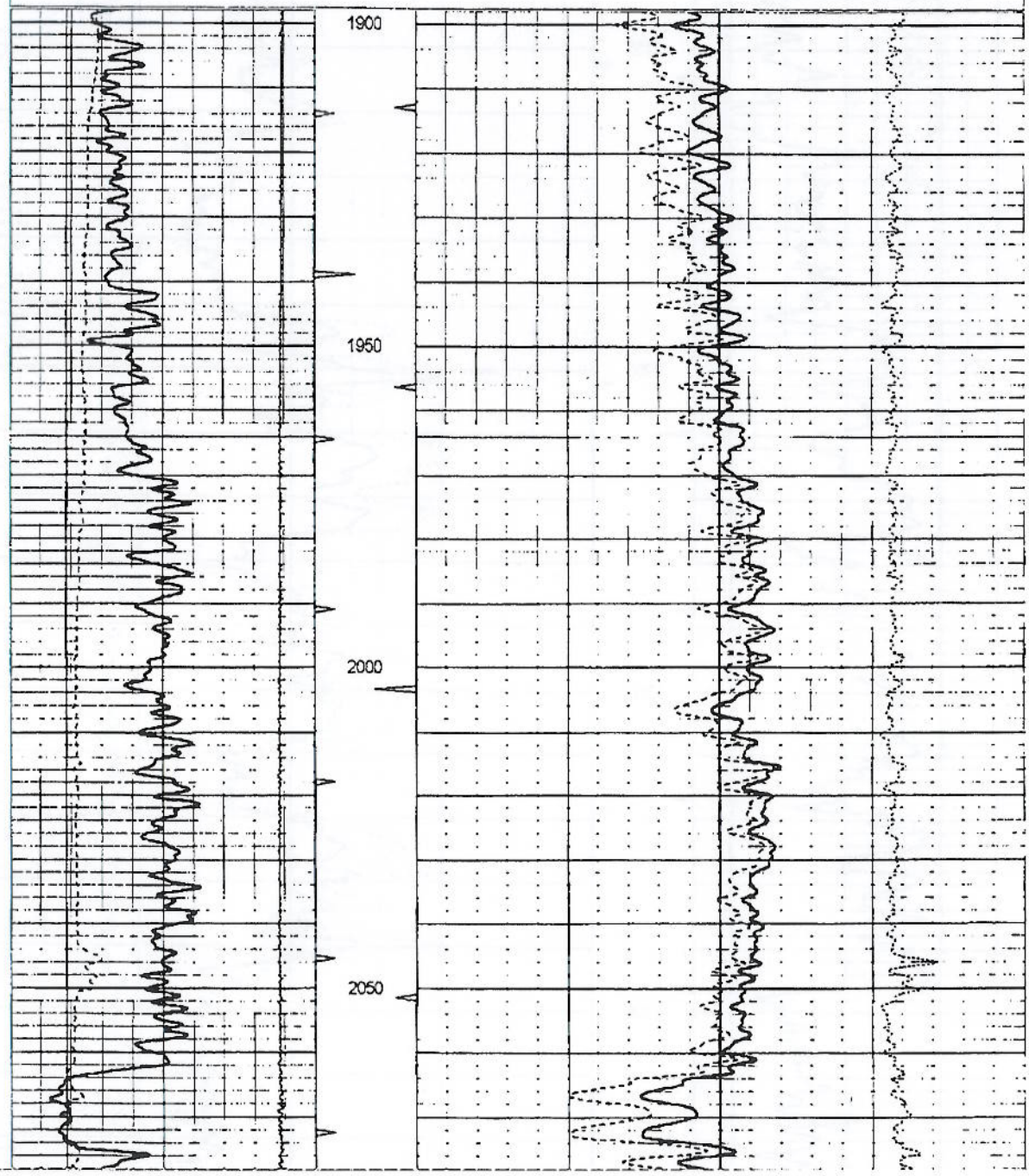
SUPERIOR
Blue Lick, Pa
Mercer Pa
Wooster, Ohio
Cleveland, Oh

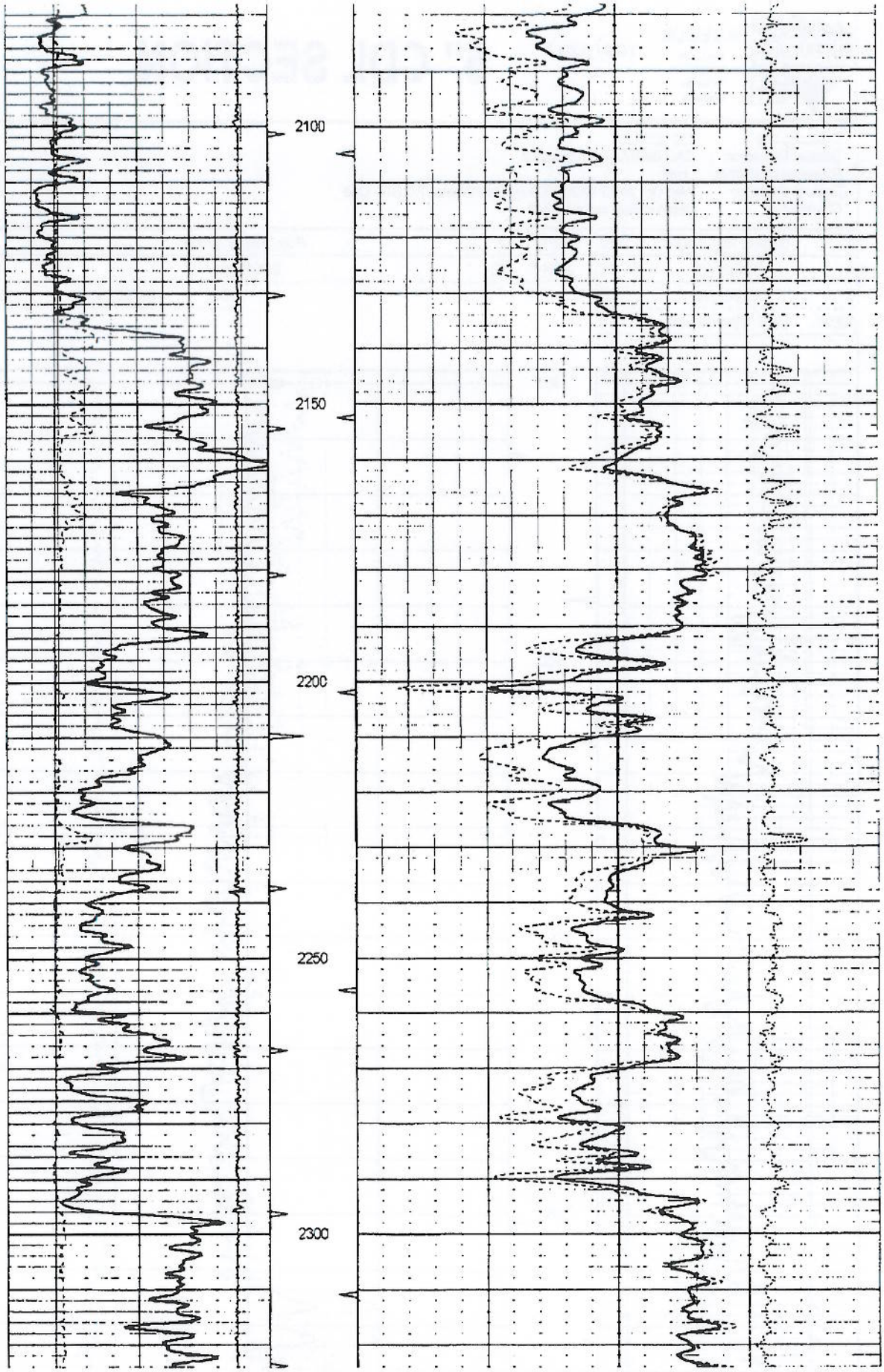
TGS A2D

5" CDL SECTION

Database File	180-4070.db
Dataset Pathname:	CALUMET/JH/run1/pass1.2
Presentation Format:	_bulk
Dataset Creation:	Wed Oct 26 23:42:20 2005 by Calc Warrior 7.0 STD Ope
Charted by:	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	TBHV	2	Bulk Density (g/cc)		3
6	Bit Size (in)	16	ABHV	30	DPOR (pu)		-10
6	DCAL (in)	16			-0.5	RHOC (g/cc)	0.5
10000	LINE TENSION (lb)	0					

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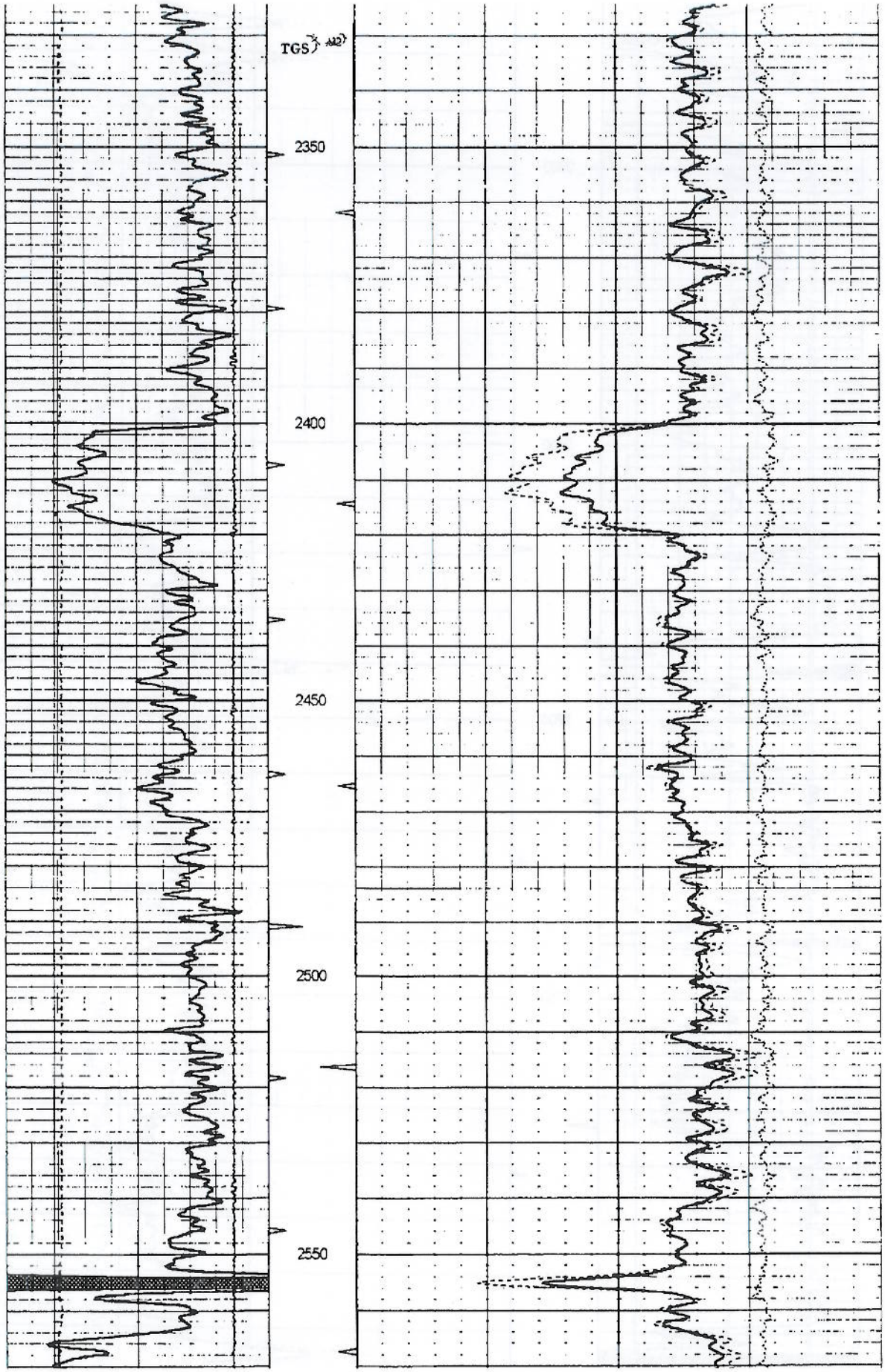
2200
2250
2300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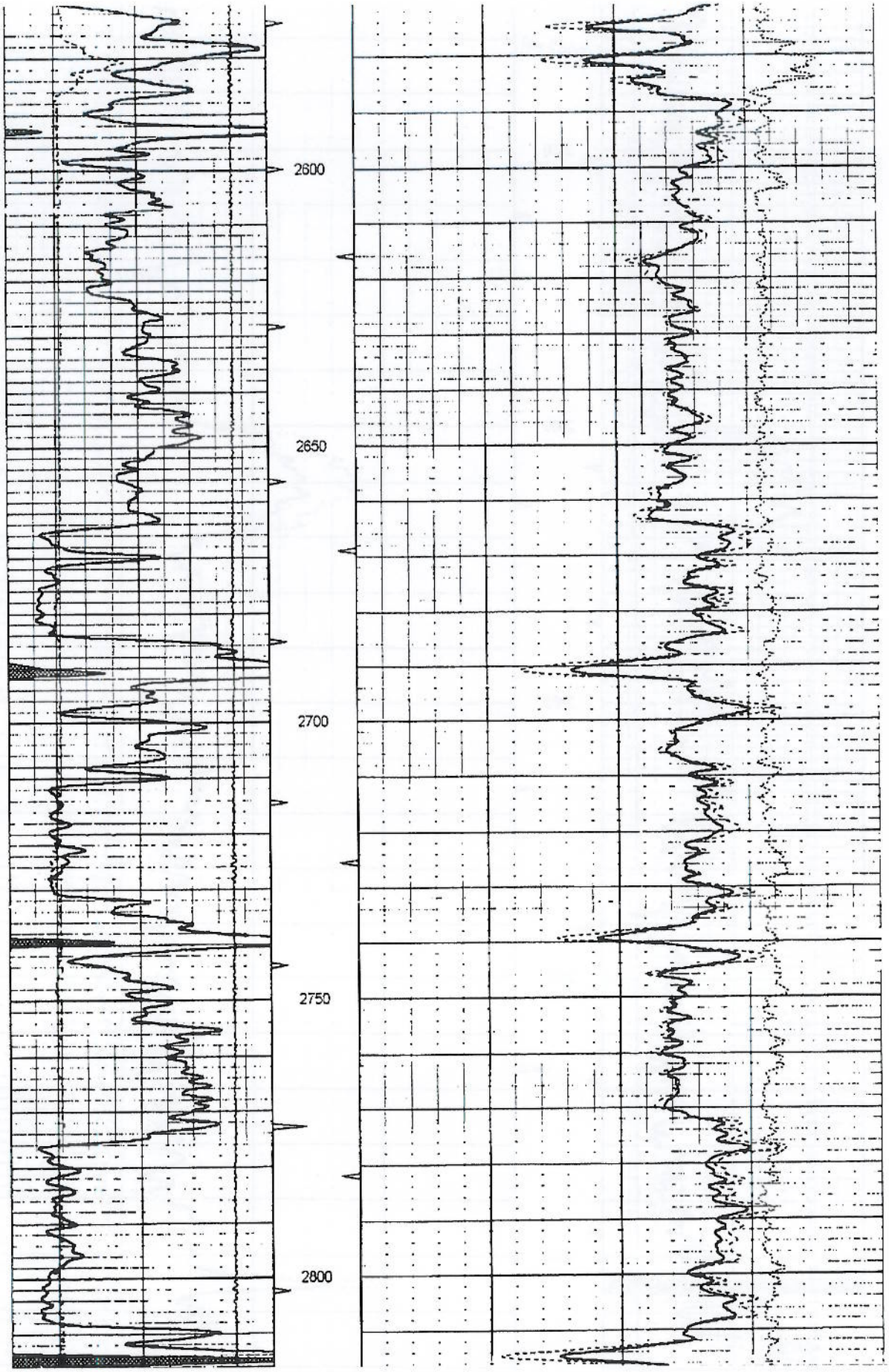
2500
2550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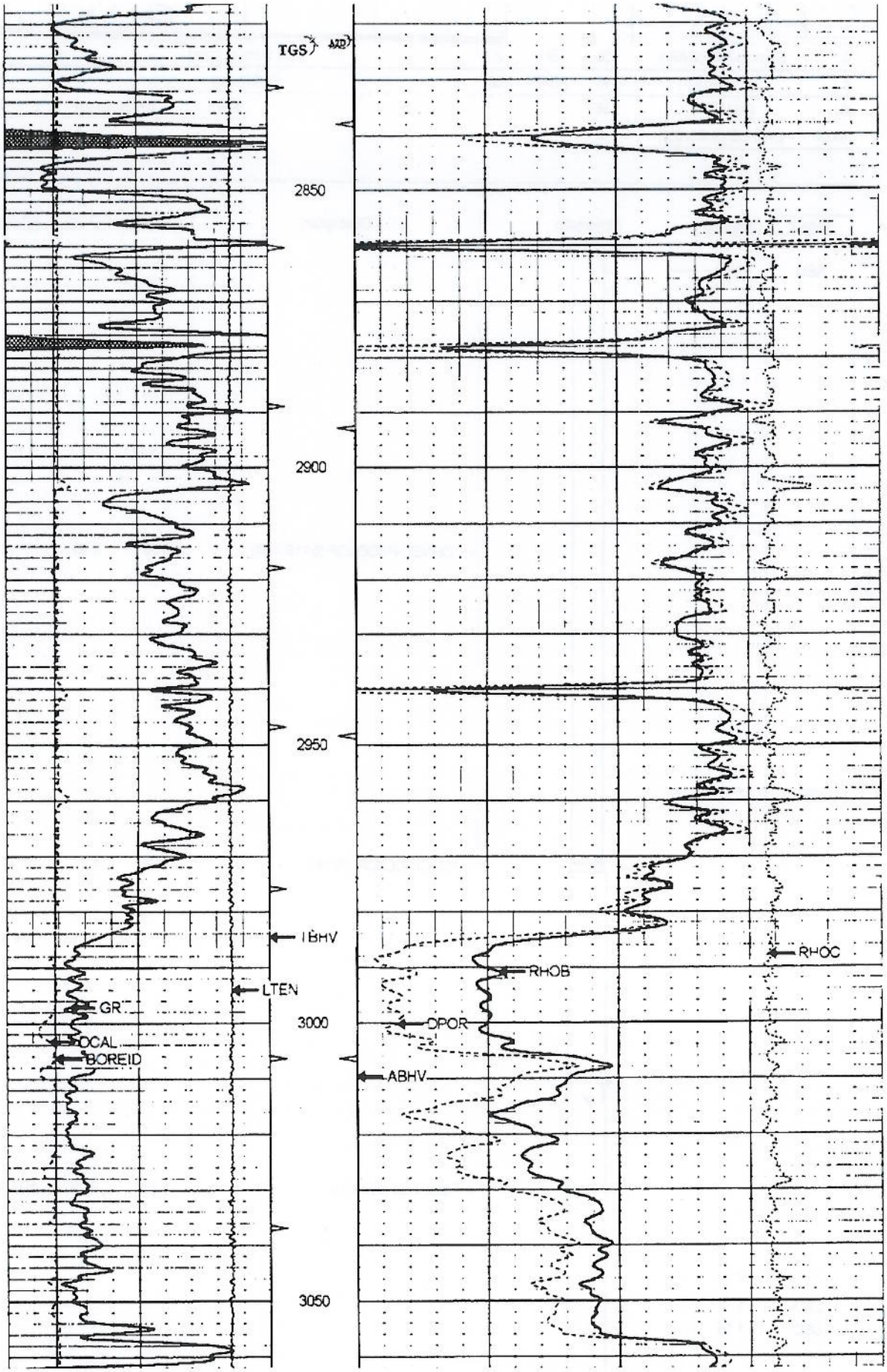

TGS
MD
2850
2900
2950
3000
3050
IBHV
LTEN
GR
CAL
BOREID
RHOB
DPOR
ABHV
RHOC

0	Gamma Ray (GAPI)	150	TBHV	2	Bulk Density (g/cc)	3
6	Bit Size (in)	16	ABHV	30	DPOR (pu)	-10
6	DCAL (in)	16			-0.5 RHOC (g/cc)	0.5
10000	LINE TENSION (lb)	0				

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
NEU	13.05					
			OHNEU-PROBEOP (5119-17N)	6.50	3.25	
GR	7.57					
			OHGR-OLXGR (2218)	0.06	3.50	5.00
			CDL-GOI (22181N)	6.75	4.00	100.00
DCAL	2.50					
LSD	2.17					
SSD	1.96					

TGS A2D

Chaparral Area Permit pt 25

SUPERIOR WELL SERVICES

SUPERIOR

PO Box 9[illegible]
Hominy OK [illegible]

DUAL INDUCTION SFL/GR LOG

CPNY CALUMET OIL COMPA Y
WELL NBU 39-28
FIELD
CO. OSAGE ST OKLAHO

COMPANY CALUMET OIL COMPANY
WELL NBU 39 28
FIELD
COUNTY OSAGE STATE OKLAHOMA

LOCATION
NW/4
2360' FWL & 1200' FSL

SEC. 23 TWP. 27N RGE. 6E

OTHER SERVICES:
CDLN

PERMANENT DATUM GL ELEV. 1131'
LOG MEASURED FROM KB 7' ABOVE PERMANENT DATUM
DRILLING MEASURED FROM GL

ELEV.: K.B. 1138'
D.F. 1137'
G.L. 1131'

DATE	10-20-05			
RUN NO.	ONE			
DEPTH-DRILLER	3079'			
DEPTH-LOGGER	3079'			
BTM. LOG INTER.	3077'			
TOP LOG INTER.	SURFACE			
CASING-DRILLER	8.625" @ 212'			
CASING-LOGGER	8.625" @ 212'			
BIT SIZE	7.875"			
FLUID TYPE	CHEM-GEL			
DENS. : VISC.	8.9 / 48			
PH : FLUID LOSS	9.4 / 5.8			
SOURCE OF SAMPLE	PIT			
RM @ MEAS. TEMP.	6.3 @ 75			
RMF @ MEAS. TEMP.	6.1 @ 75			
RMC @ MEAS. TEMP.	6.2 @ 75			
SOURCE: RMF/RMC	C/C			
RM @ BHT	3.6 @ 108			
TIME SINCE CIRC.	3 HRS			
MAX. REC. TEMP.	108			
EQUIP.: LOCATION	182-HOMINY			
RECORDED BY	TYLER	BRINK	GAYLORD	
WITNESSED BY	MR. LANGSTON	MR. WEBB	MR. HUNSACKER	

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENT AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES, OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS SET OUT IN OUR CURRENT PRICE SCHEDULE.

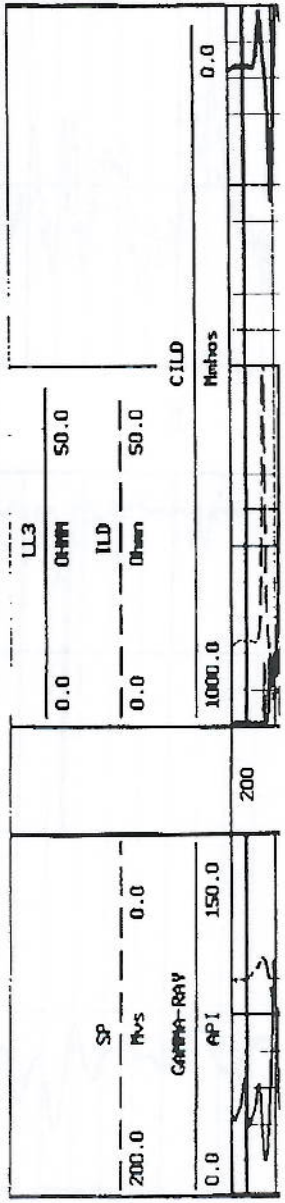
REMARKS:

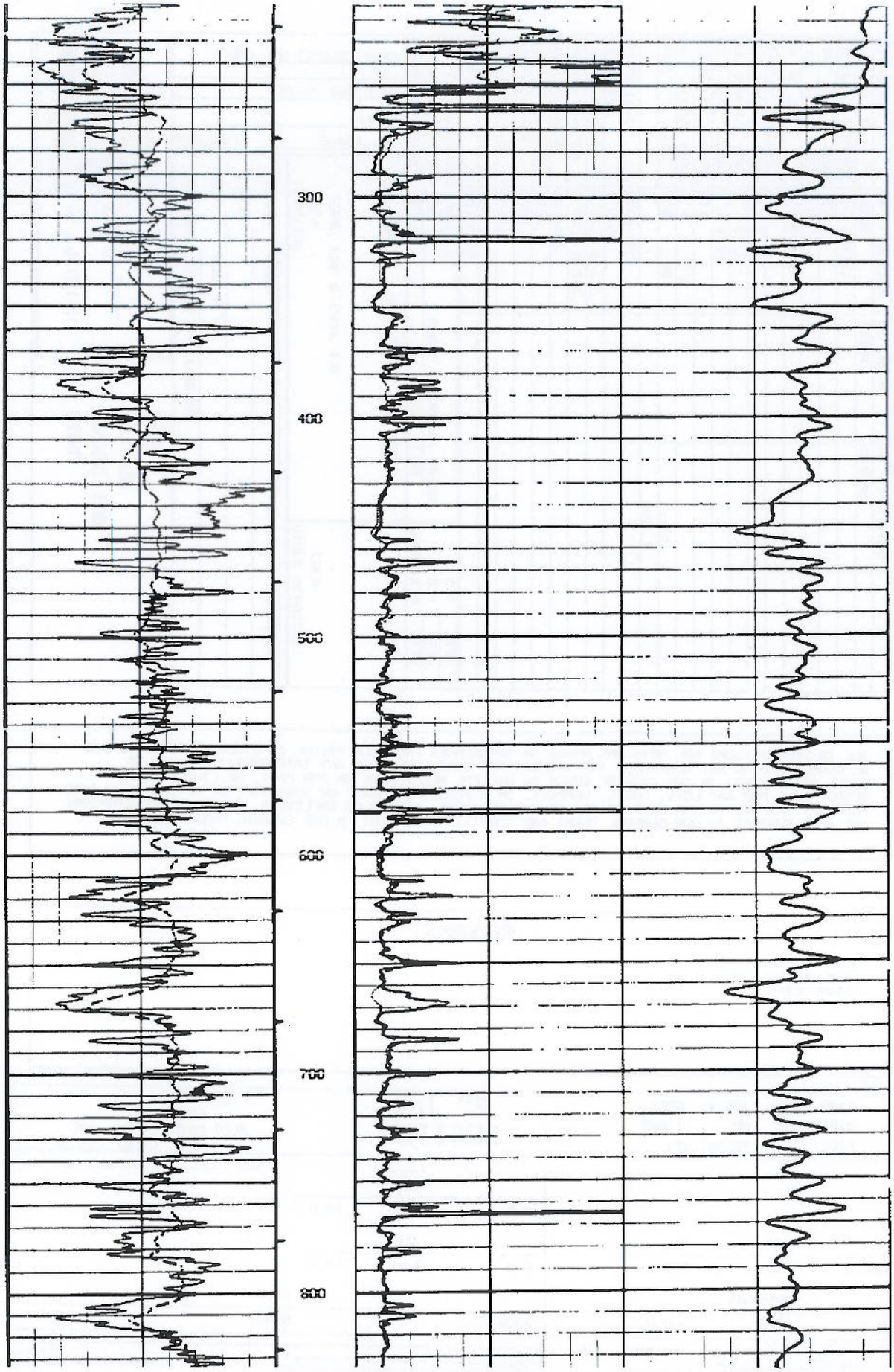
FILE # 182-4915GI
TOOL # 1513
THANK YOU!

FILE DATE:
TIME:
PLOT DATE: 09-21- 105
TIME: 04:57 V1.58

STOP DEPTH: 195.4 FEET
DIRECTION: UP 1:600
FILE: 4915gi.pts

2" ILD SECTION

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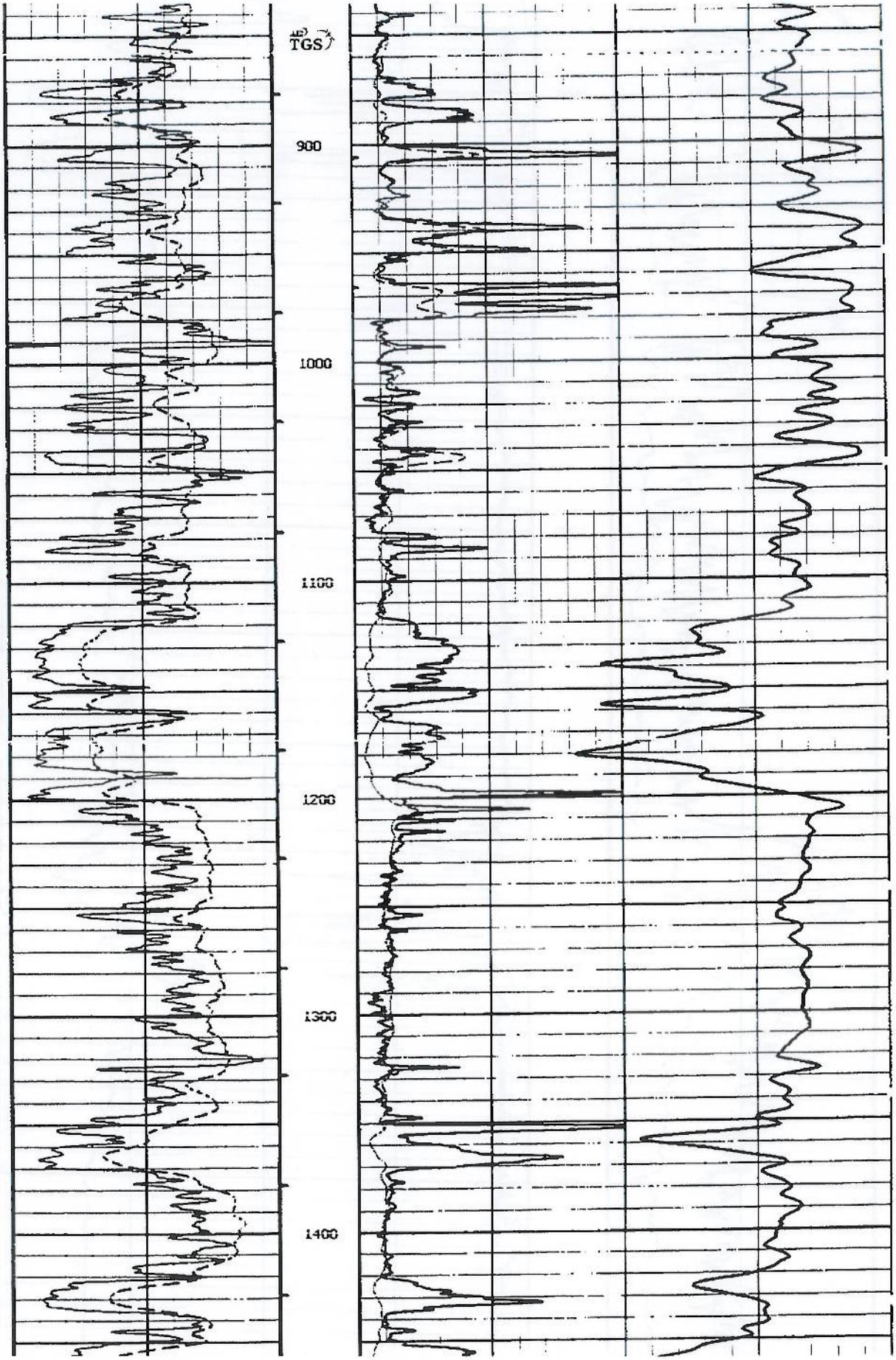
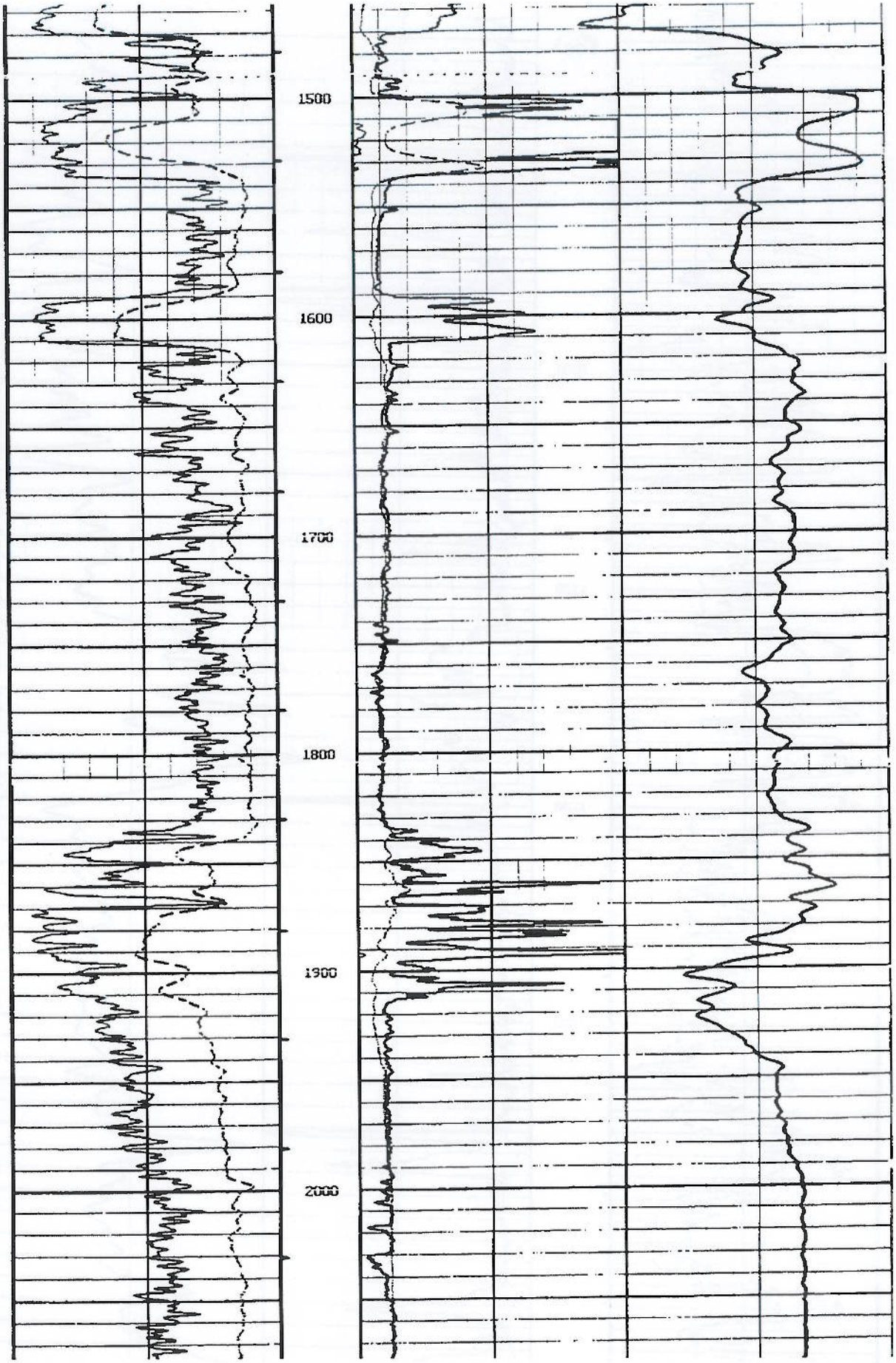
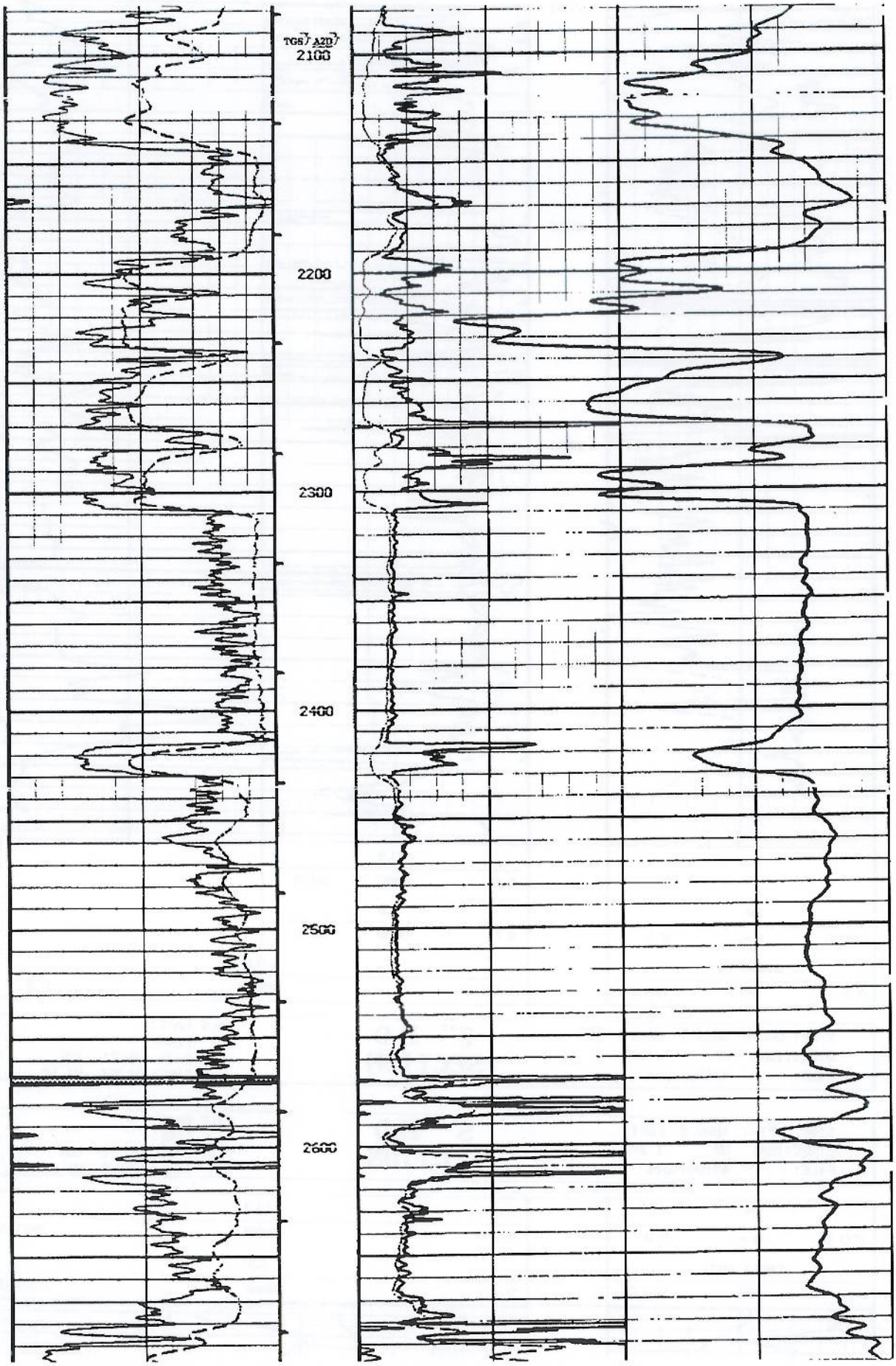
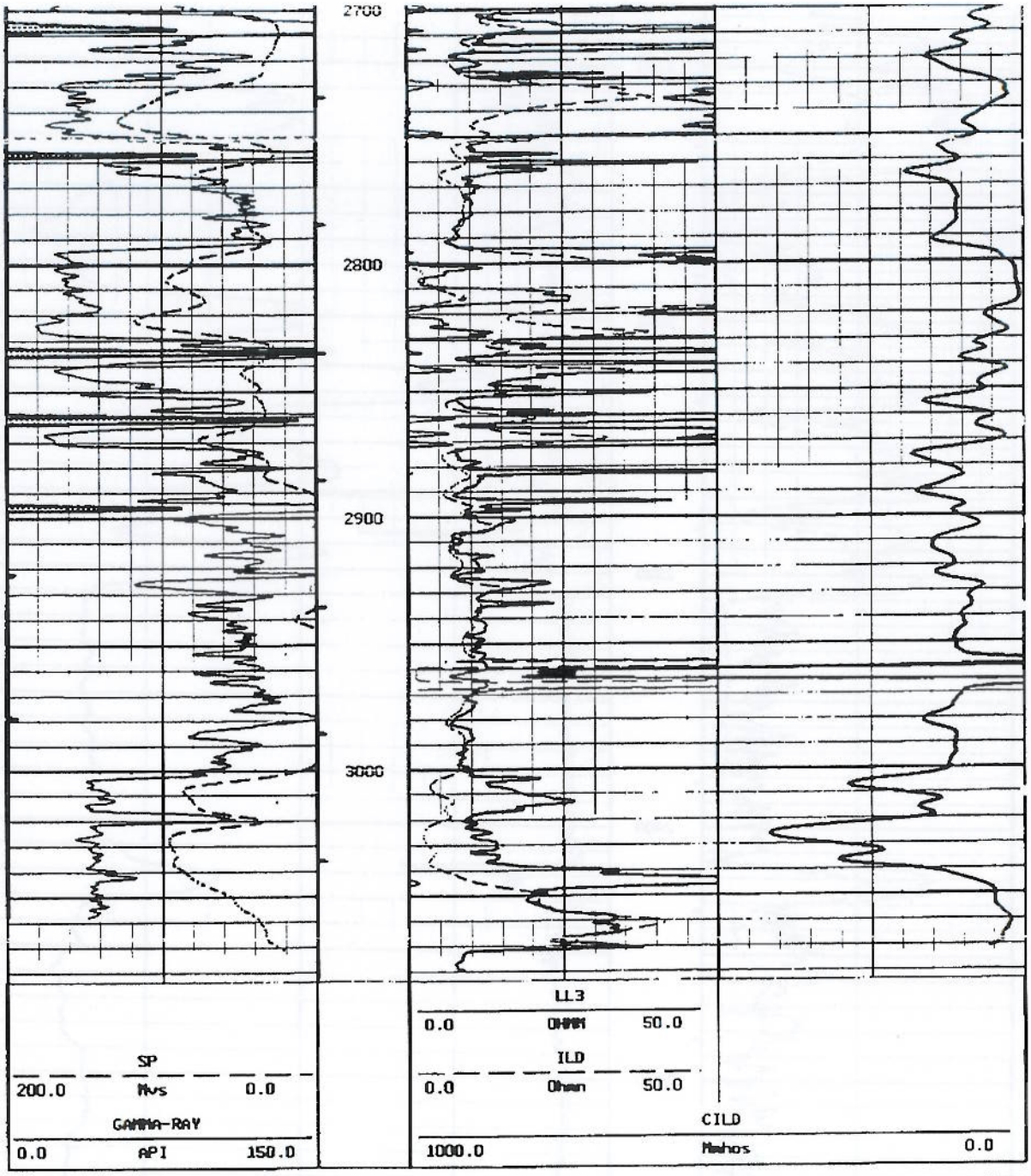
500
600
700
800


TGS
900
1000
1100
1200
1300
1400


1500
1600
1700
1800
1900
2000


TGS
A20
2100
2200
2300
2400
2500
2600



START DEPTH: 3083.1 FEET
DIRECTION: UP 1:600
FILE: 4915gi.pts

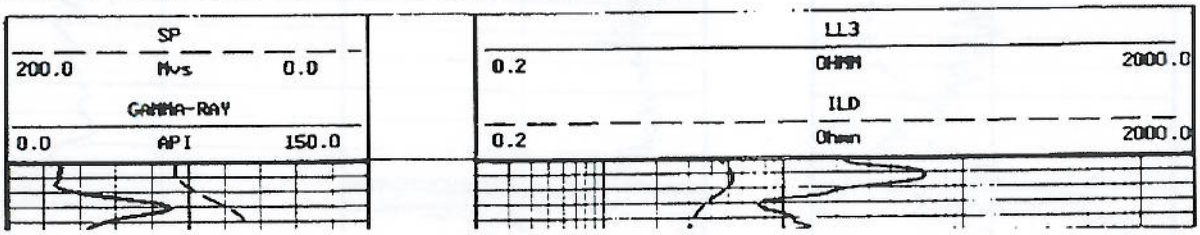
2" ILD SECTION

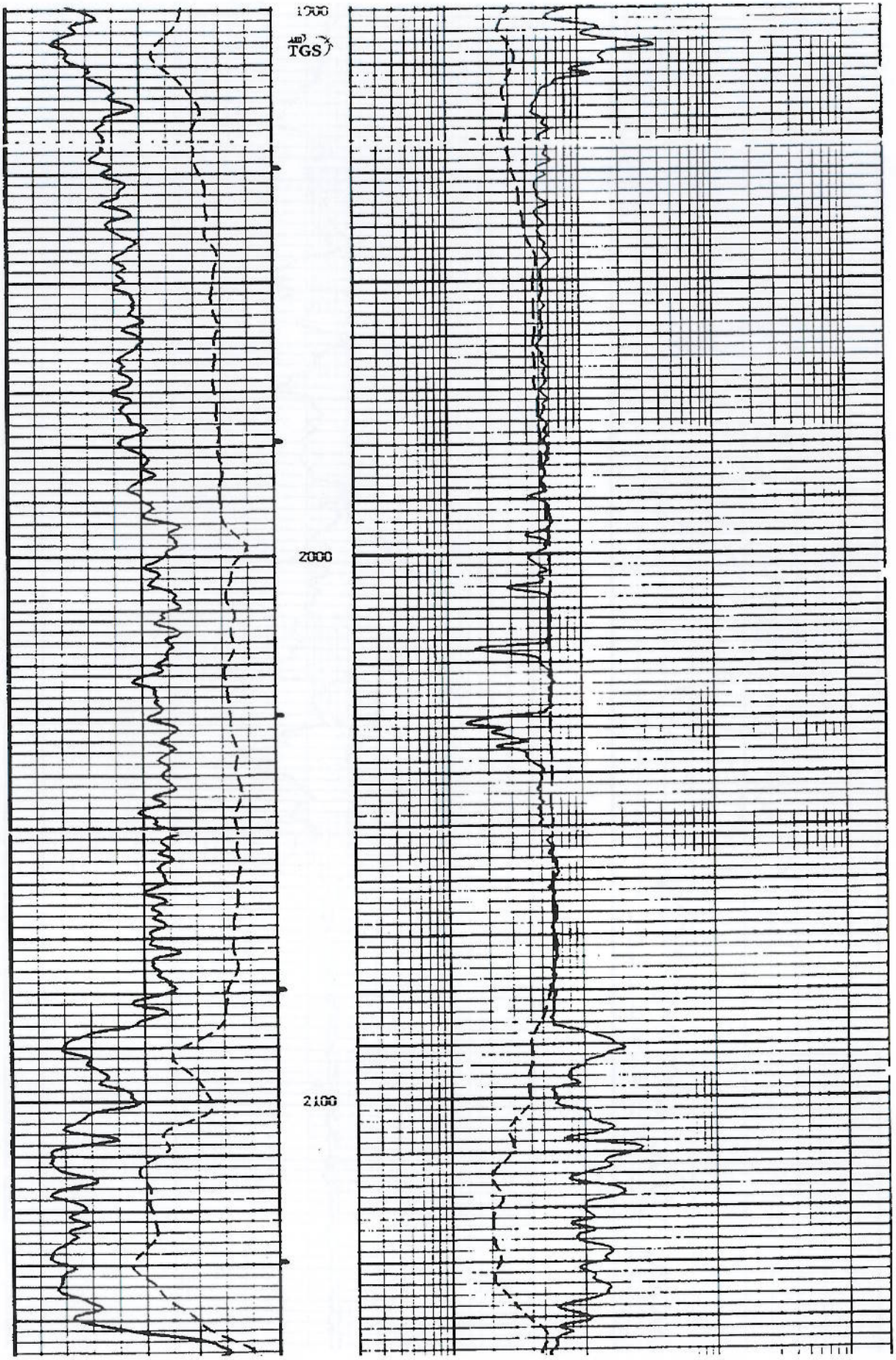
FILE DATE:
TIME:
PLOT DATE: 09-21- 105
TIME: 04:57 V1.58

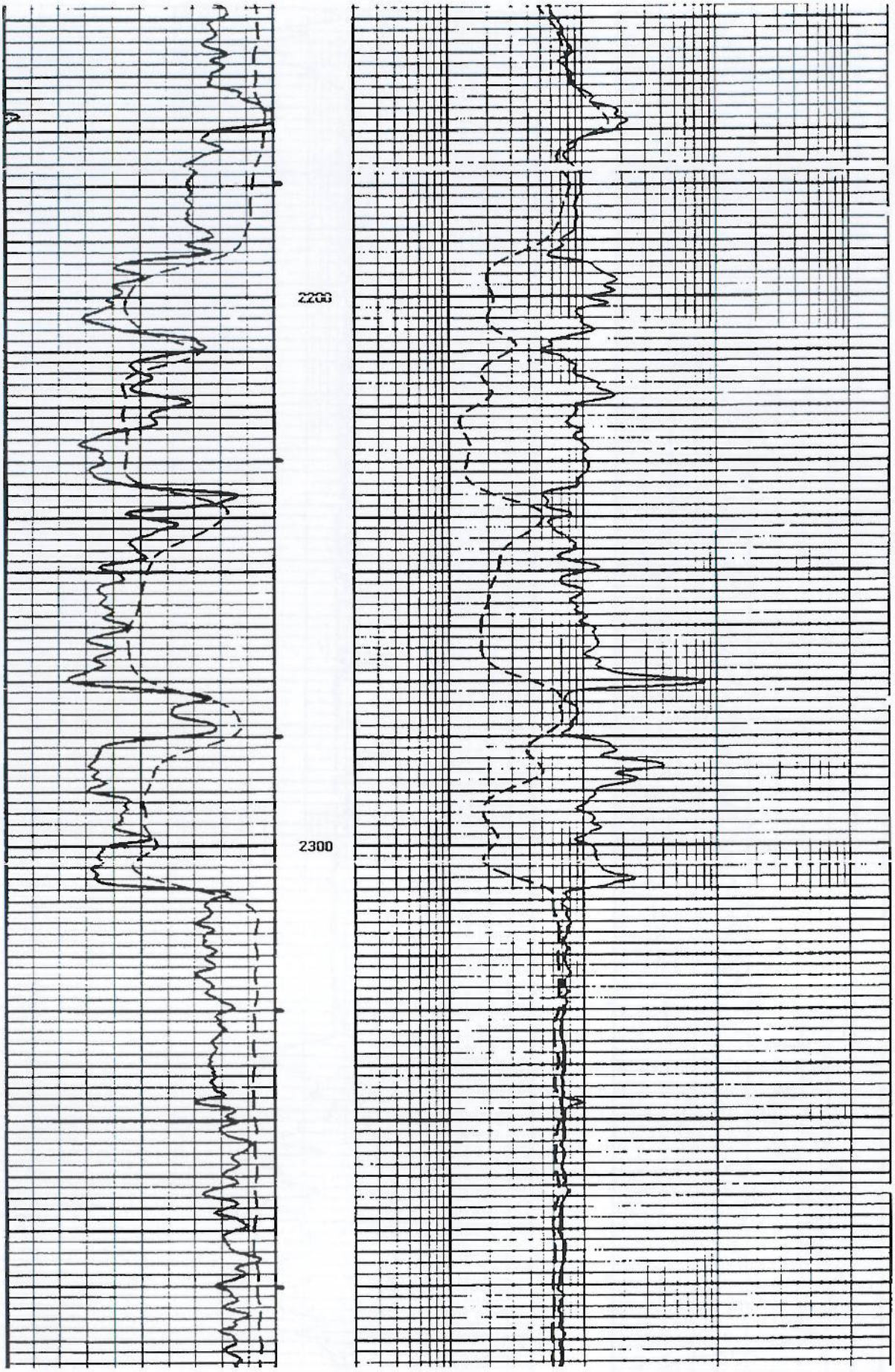
STOP DEPTH: 1889.9 FEET
DIRECTION: UP 1:240
FILE: 4915gi.pts

5" ILD SECTION

FILE DATE:
TIME:
PLOT DATE: 09-21- 105
TIME: 04:59 V1.58




1900
TGS
2000
2100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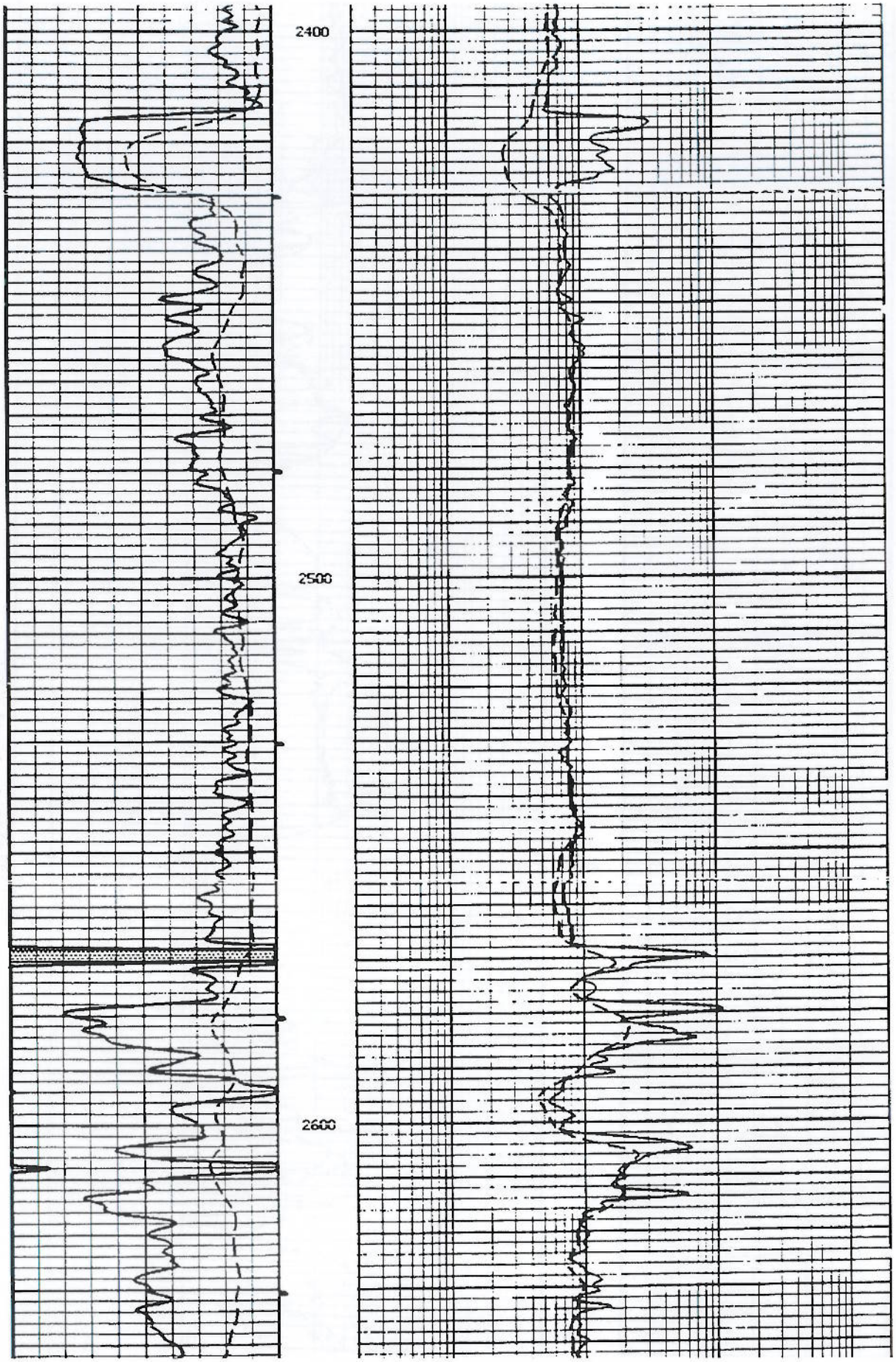
2300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2500
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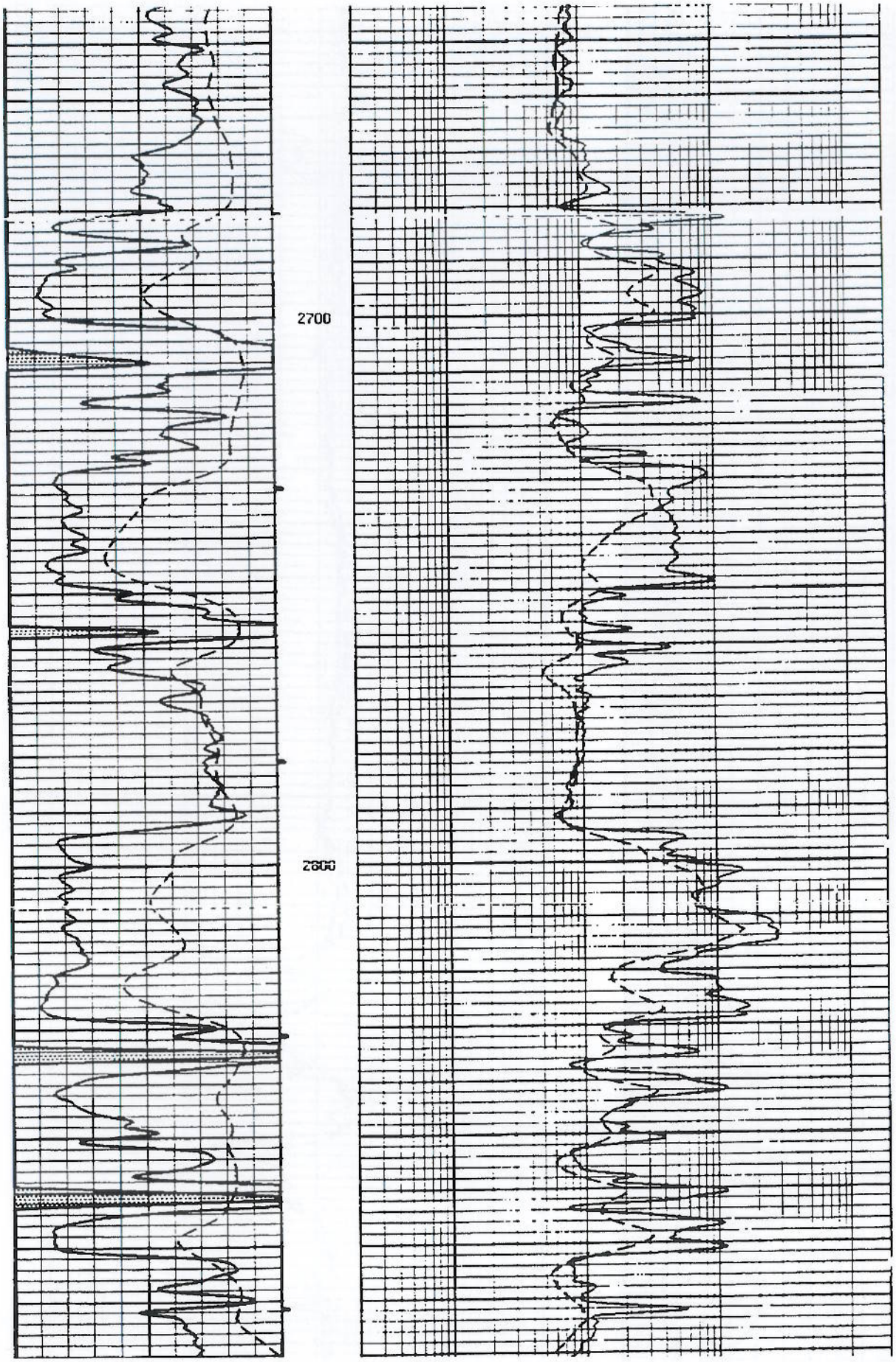
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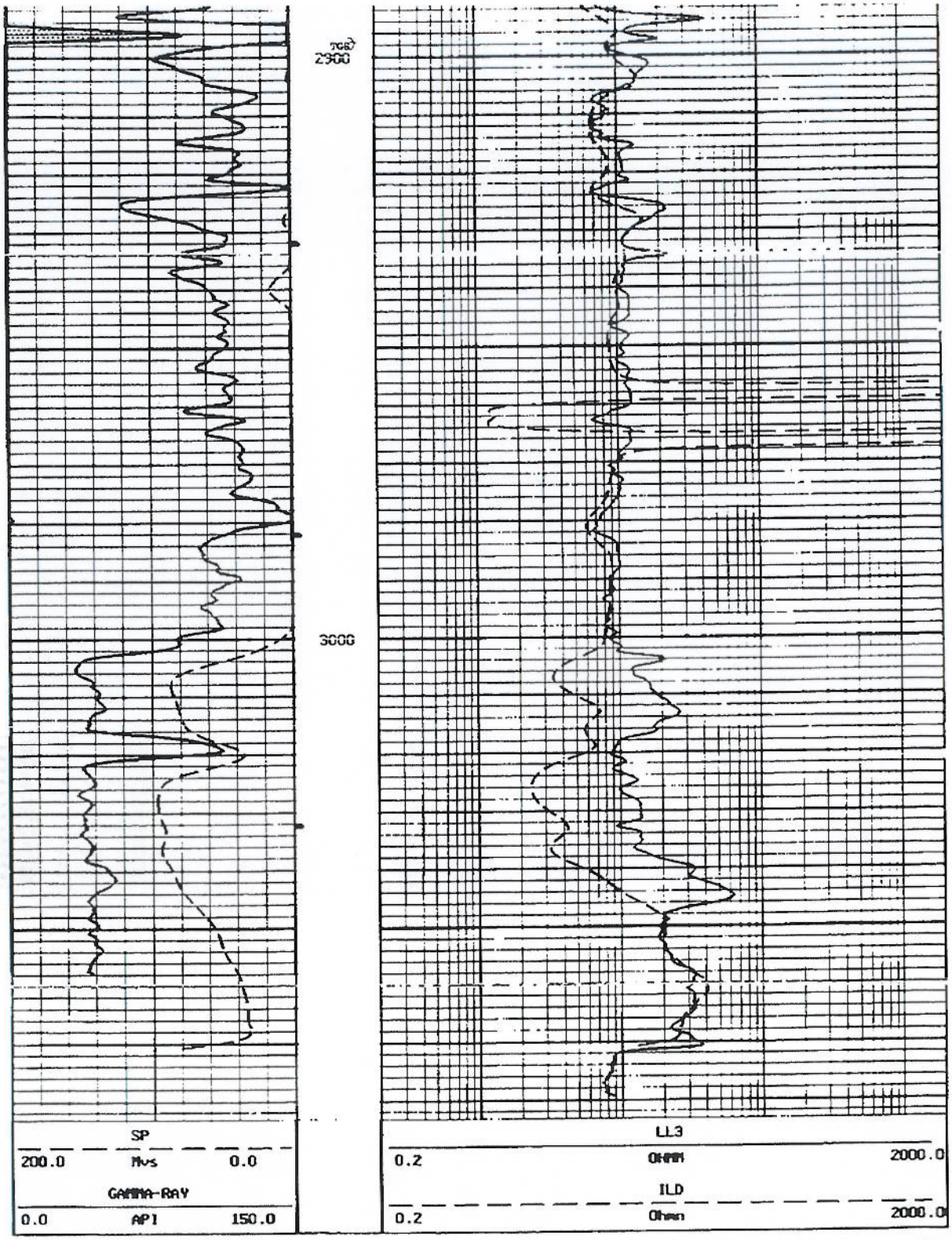

START DEPTH: 3083.1 FEET
DIRECTION: UP 1:240
FILE: 4915gi.pts

5" ILD SECTION

FILE DATE:
TIME:
PLOT DATE: 09-21- 105
TIME: 04:59 V1.58

Riley®

Chaparral Area Permit pt. 26

SUPERIOR WELL SERVICES

SUPERIOR

PO Box 9?
Hominy OK 74035 1993

COMPENSATED DENSITY NEUTRON LOG

CPNY CALUMET OIL COMPA
Y
WELL NBU 39-28
FIELD
CO. OSAGE ST OKLAHOM

COMPANY CALUMET OIL COMPANY
WELL NBU 39 28
FIELD
COUNTY OSAGE STATE OKLAHOMA

LOCATION
NW/4
2360' FWL & 1200' FSL

SEC. 23 TWP. 27N RGE. 5E

OTHER SERVICES:
HD

PERMANENT DATUM GL ELEV. 1131'
LOG MEASURED FROM KB 7' ABOVE PERMANENT DATUM
DRILLING MEASURED FROM GL

ELEV.: K.B. 1138'
D.F. 1137'
G.L. 1131'

DATE	10-20-05			
RUN NO.	ONE			
DEPTH-DRILLER	3079'			
DEPTH-LOGGER	3079'			
BTM. LOG INTER.	3077'			
TOP LOG INTER.	SURFACE			
CASING-DRILLER	8.625" @ 212'			
CASING-LOGGER	8.625" @ 212'			
BIT SIZE	7.875"			
FLUID TYPE	CHEM-GEL			
DENS. : VISC.	8.9 / 48			
PH : FLUID LOSS	9.4 / 5.8			
SOURCE OF SAMPLE	PIT			
RM @ MEAS. TEMP.	6.3 @ 75			
RMF @ MEAS. TEMP.	6.1 @ 75			
RMC @ MEAS. TEMP.	6.2 @ 75			
SOURCE: RMF/RMC	C/C			
RM @ BHT	3.6 @ 108			
TIME SINCE CIRC.	3 HRS			
MAX. REC. TEMP.	108			
EQUIP.: LOCATION	182-HOMINY			
RECORDED BY	TYLER	BRINK	GAYLORD	
WITNESSED BY	MR. LANGSTON	MR. WEBB	MR. HUNSACKER	

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REMARKS:

FILE # 182-4915D
TOOL # 2104
THANK YOU!

FILE DATE:
TIME:
PLOT DATE: 09-21- 105
TIME: 03:31 V1.58

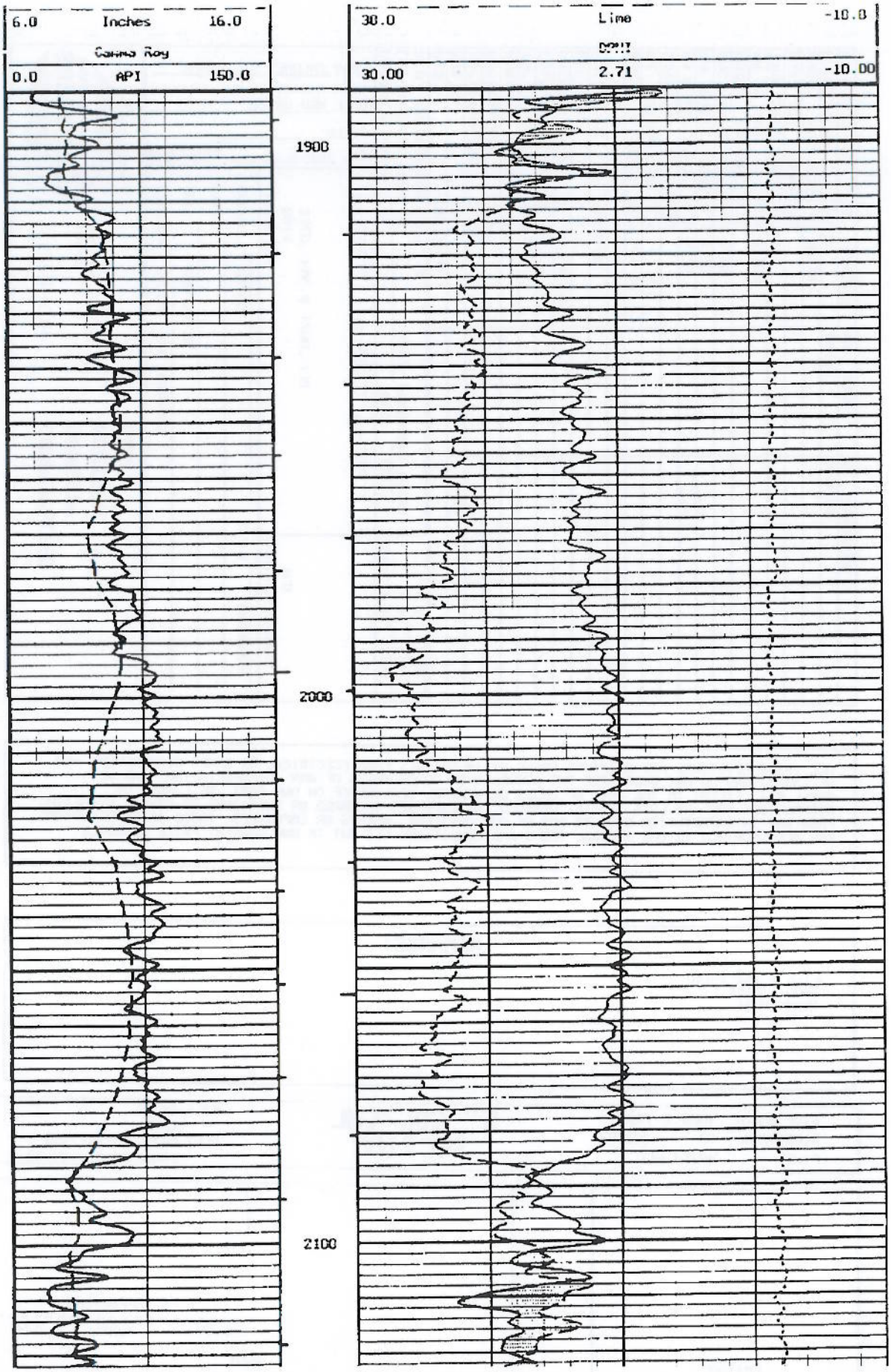
5" CDL/CNL
SECTION

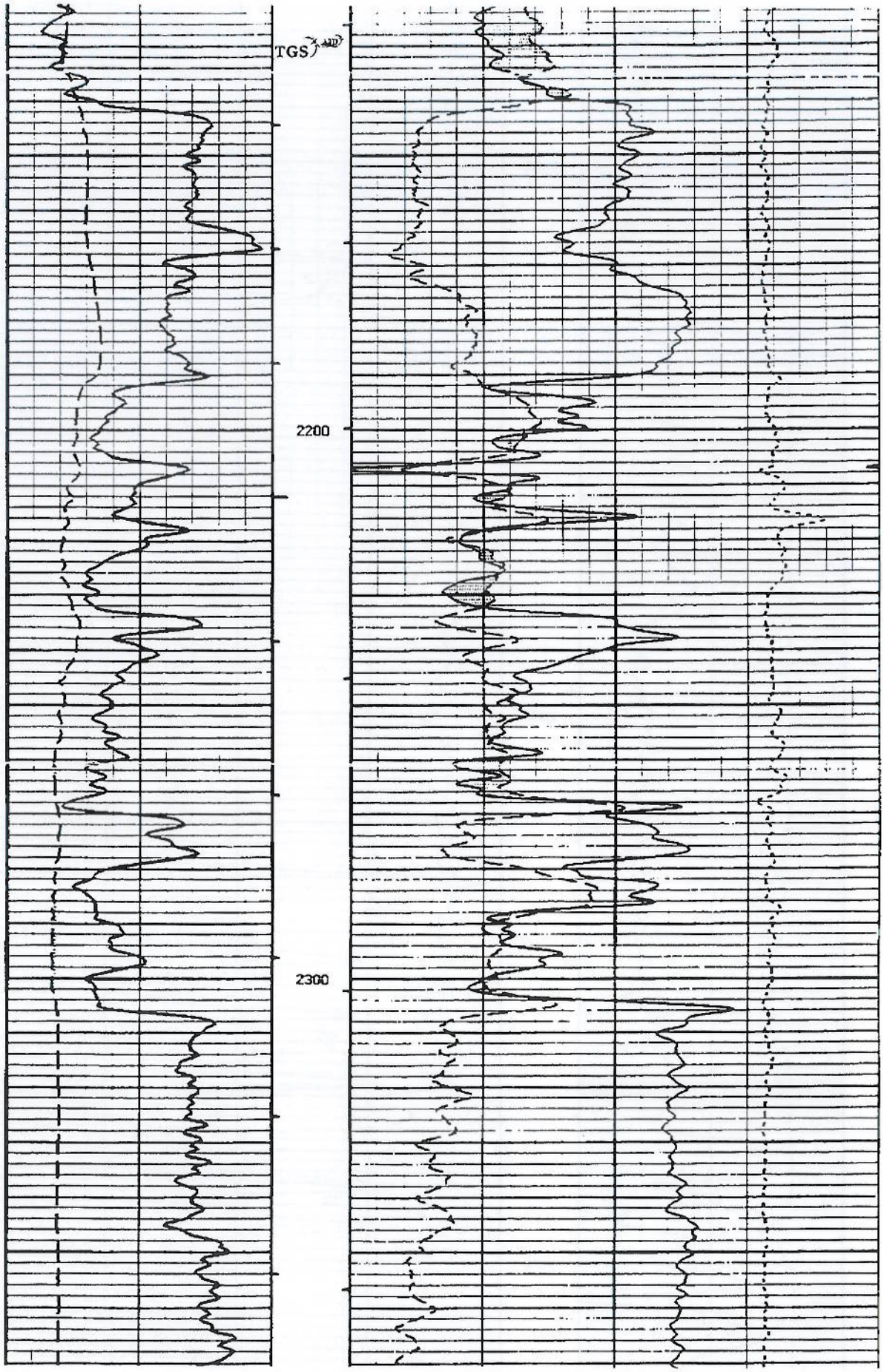
STOP DEPTH: 1889.9 FEET
DIRECTION: UP 1:240
FILE: 4915d.pts

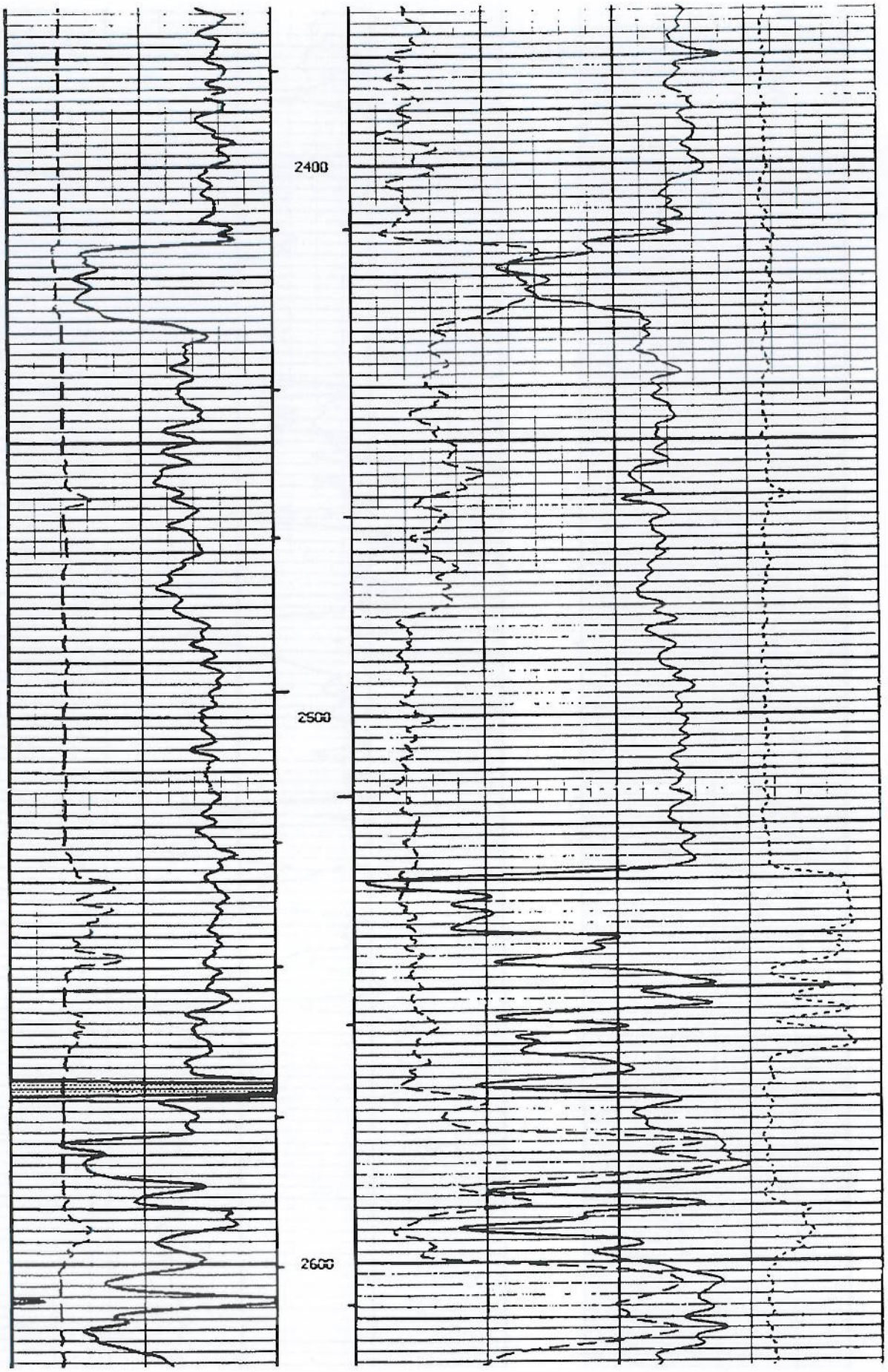
Caliper

Correction
-0.50 G/cc 0.50

NPHI


6.0
Inches
16.0
Gamma Ray
0.0
API
150.0
30.0
Lime
-10.0
2.71
30.00
-10.00
1900
2000
2100


TGS
2200
2300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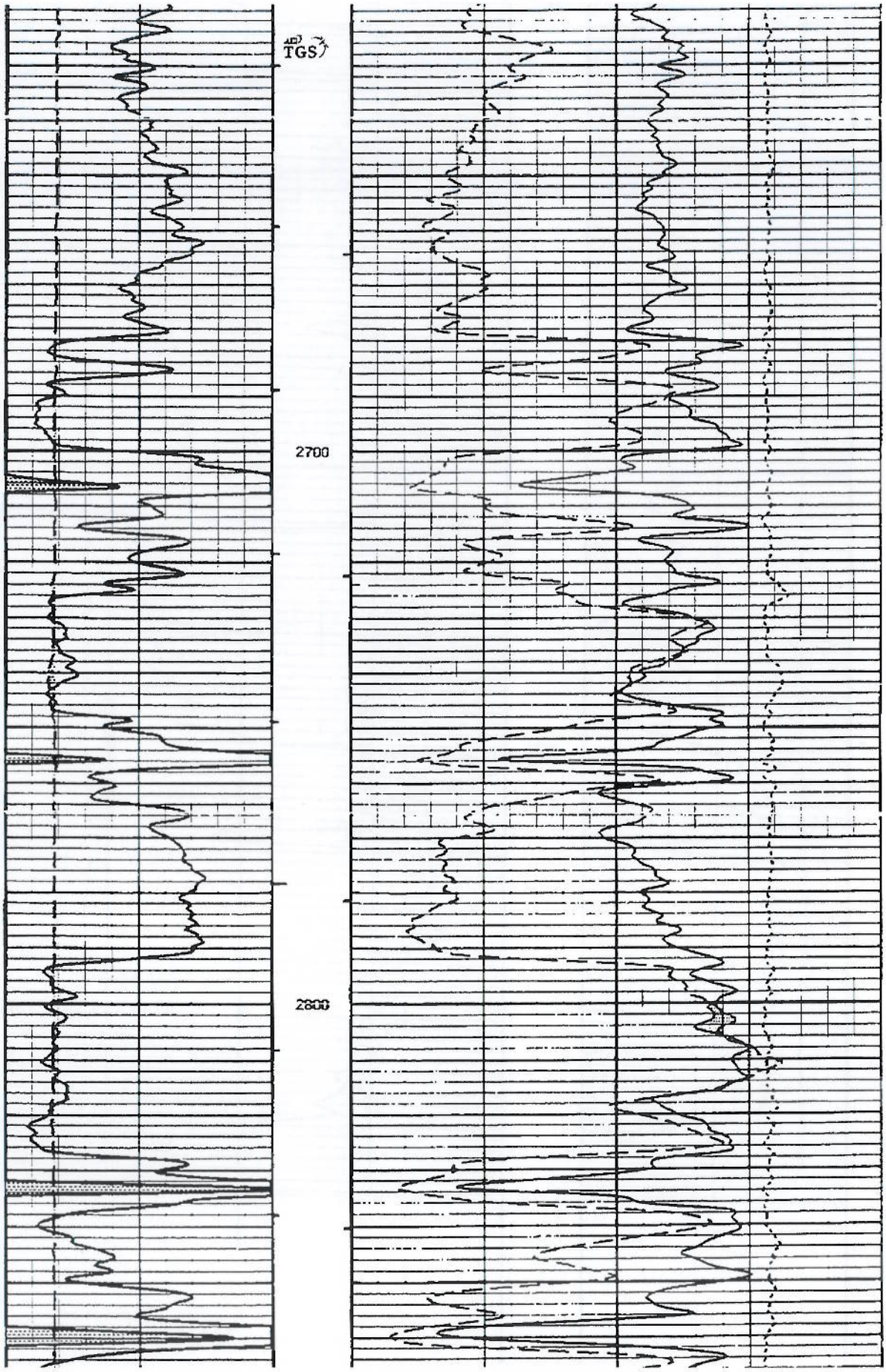
TGS
2700
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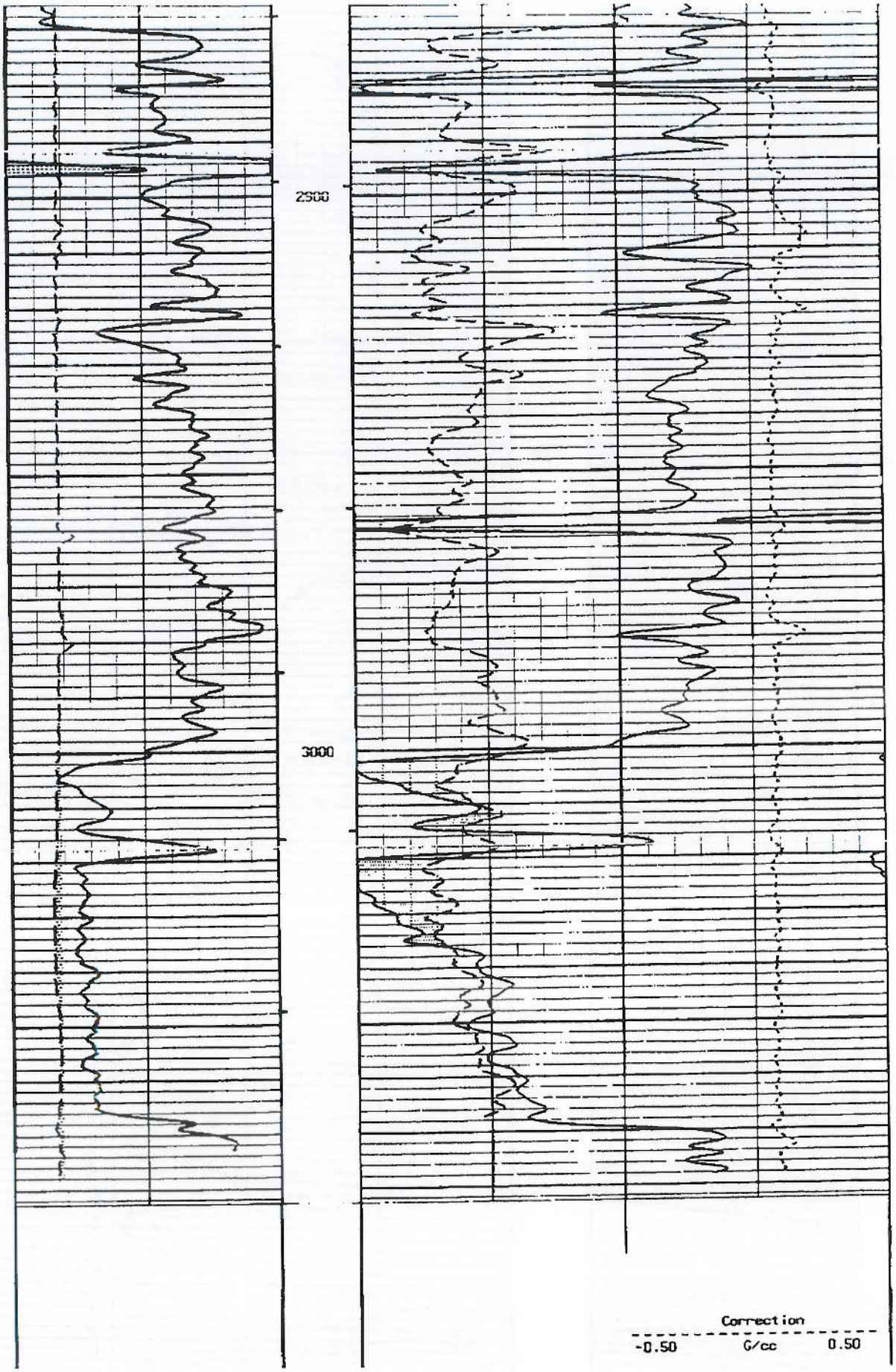

2500
3000
Correction
-0.50
G/cc
0.50

Caliper				NPHI	
6.0	Inches	16.0	TGS	30.0 A2D	Lime -10.0
Gamma Ray				DPHI	
0.0	API	150.0		30.00	2.71 -10.00

START DEPTH: 3082.6 FEET
DIRECTION: UP 1:240
FILE: 4915d.pts

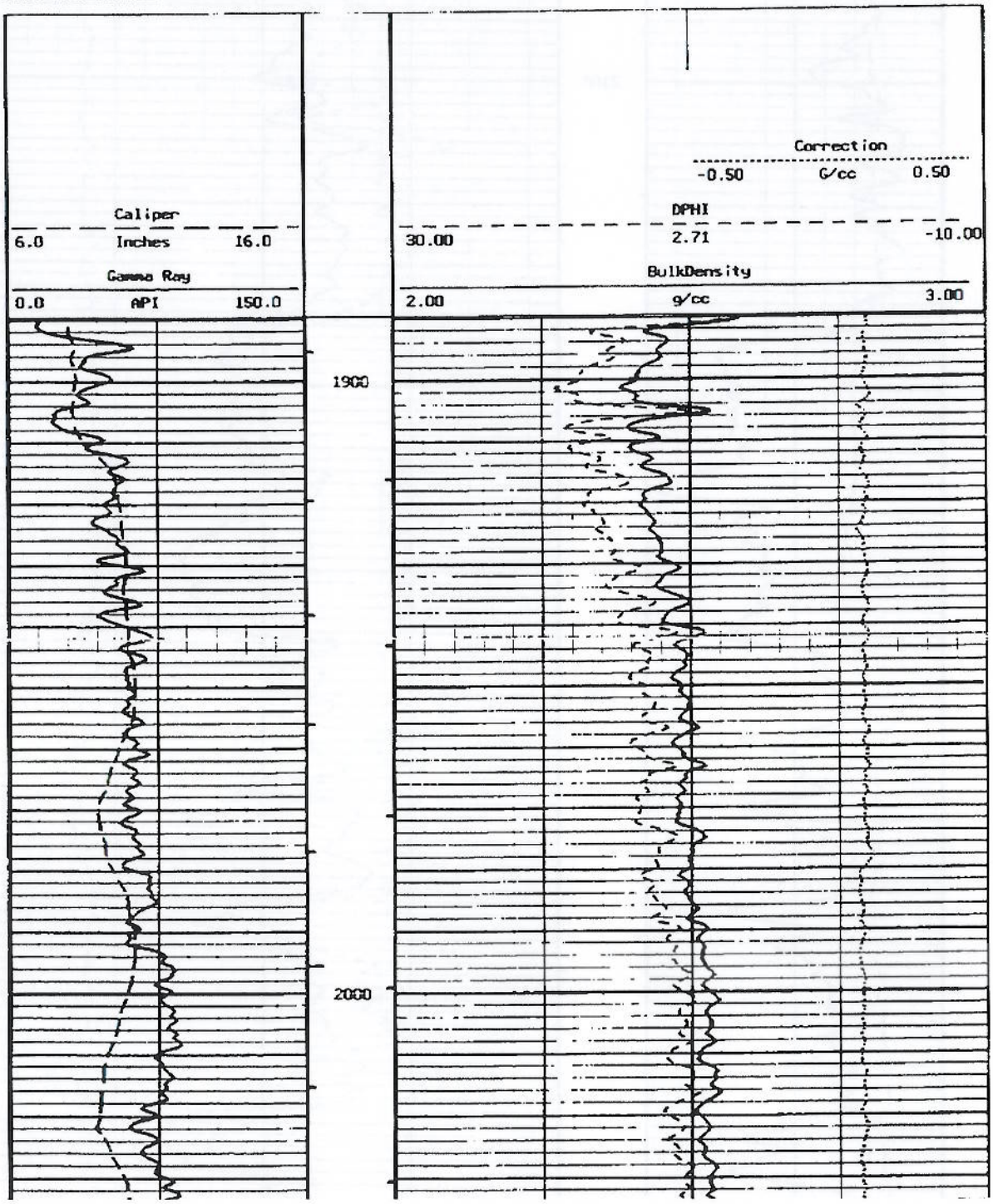
5" CDL/CNL SECTION

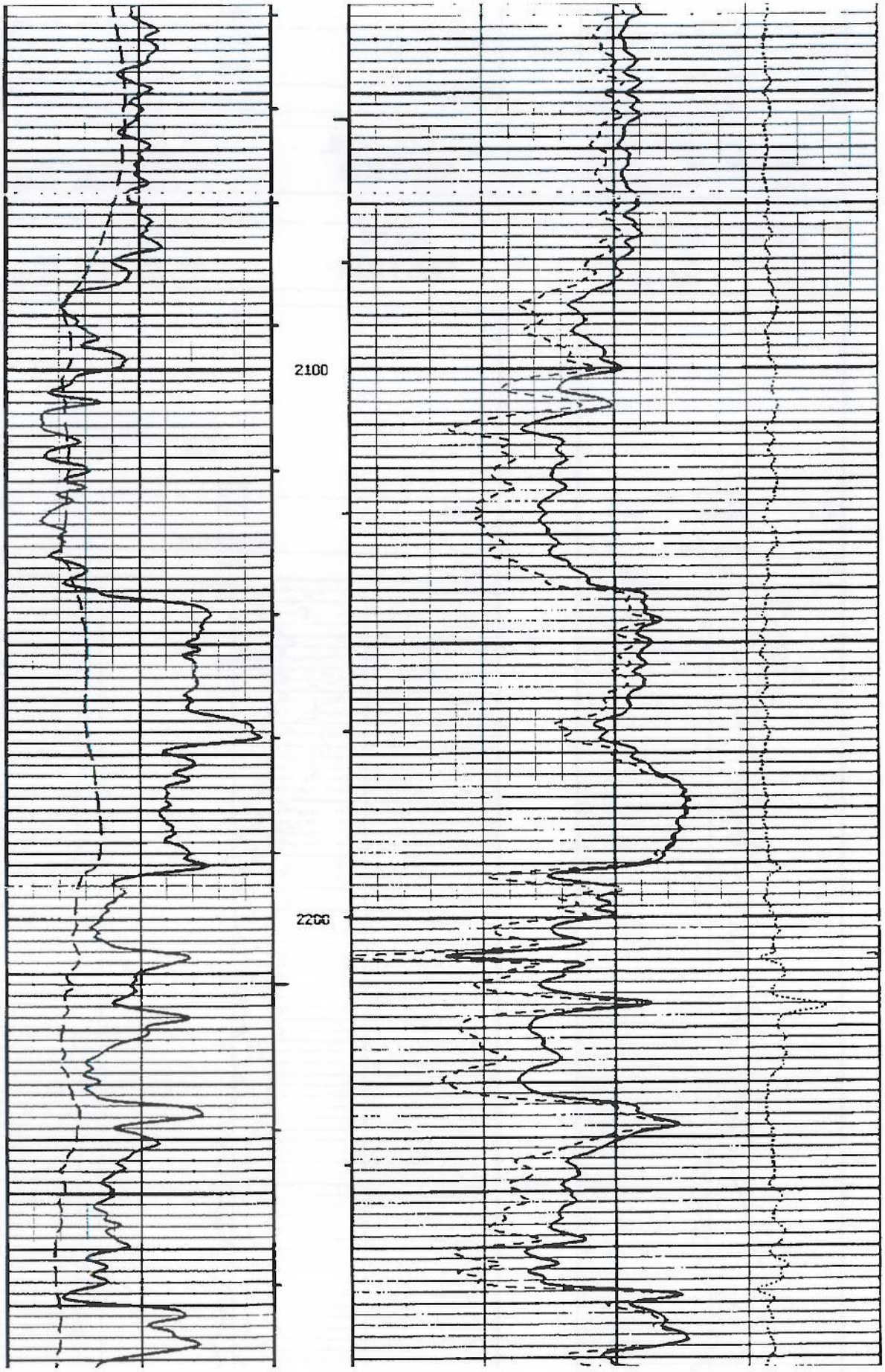
FILE DATE:
TIME:
PLOT DATE: 09-21- 105
TIME: 03:31 V1.58

STOP DEPTH: 1889.9 FEET
DIRECTION: UP 1:240
FILE: 4915d.pts

MAIN SECTION

FILE DATE:
TIME:
PLOT DATE: 09-21- 105
TIME: 05:06 V1.58

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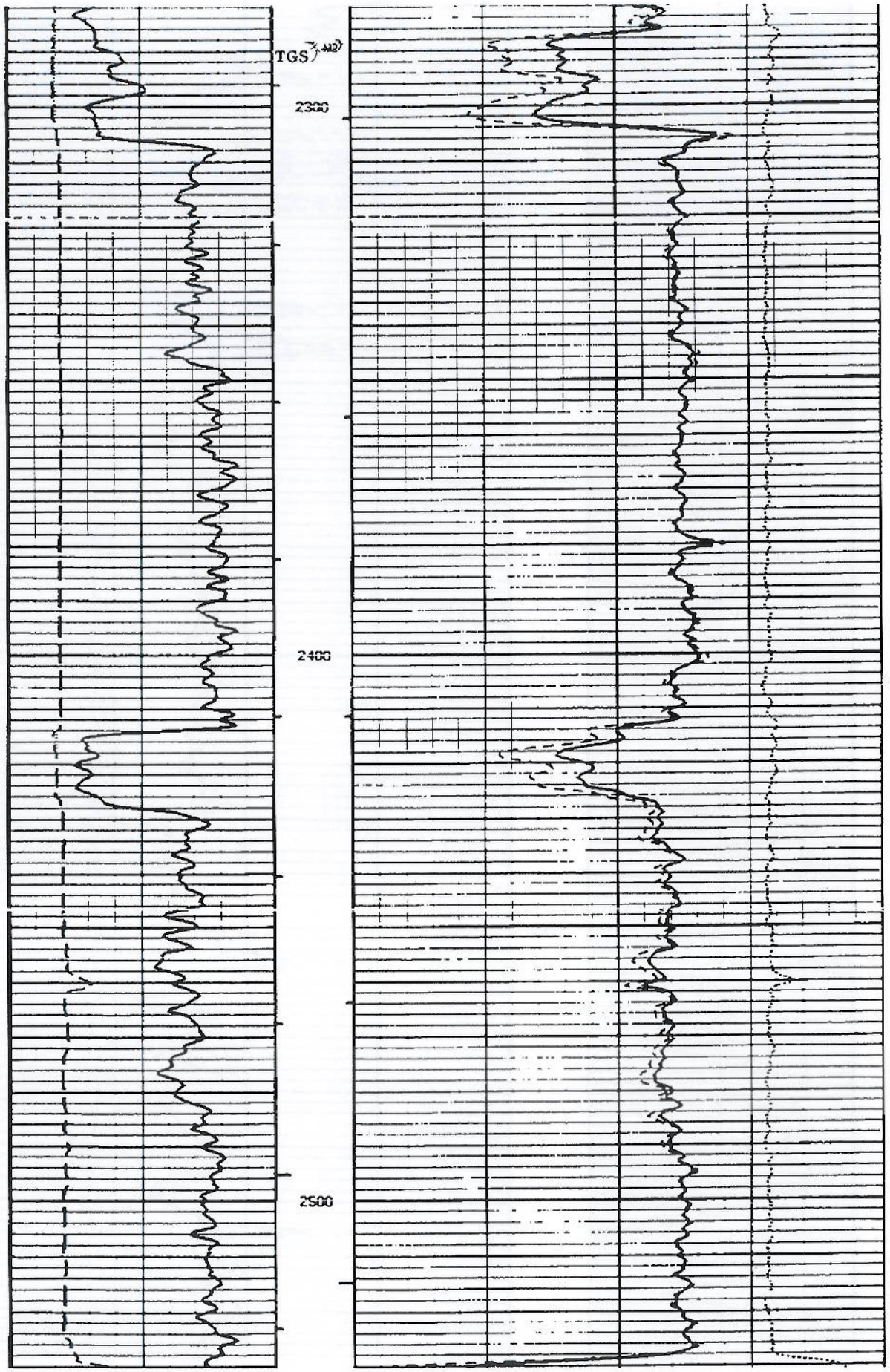
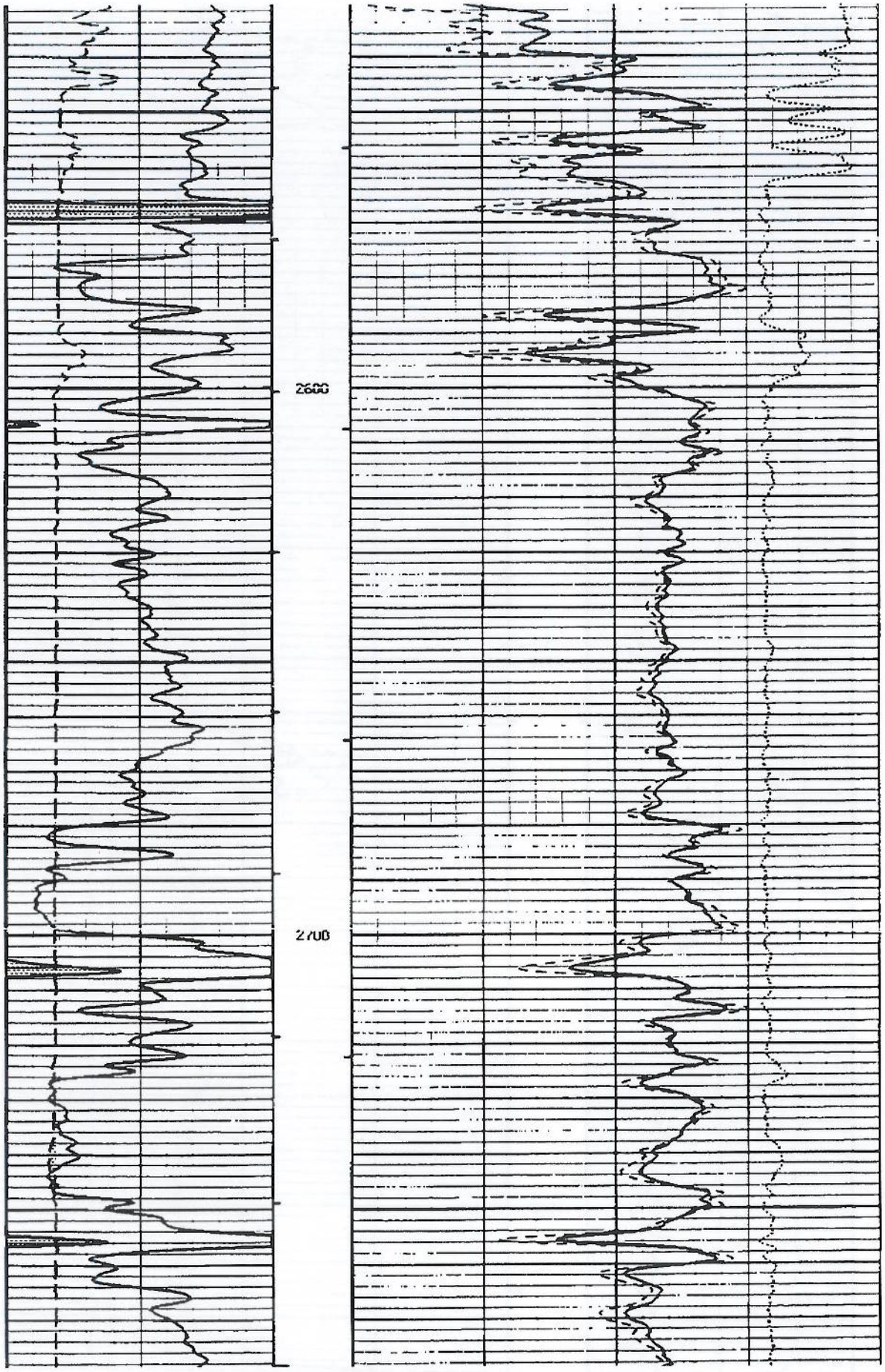
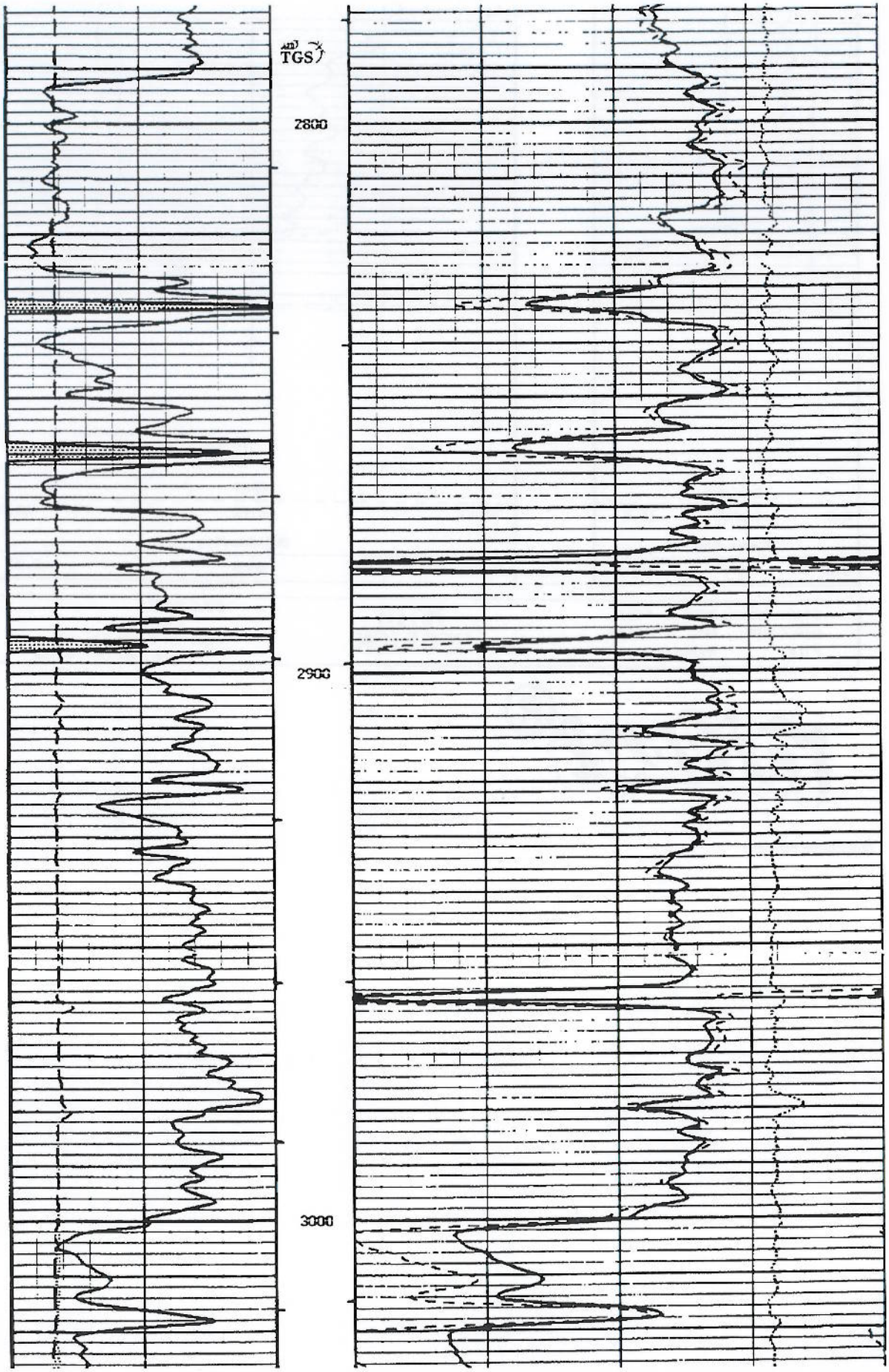
2200


TGS
2300
2400
2500


2600
2700


TGS
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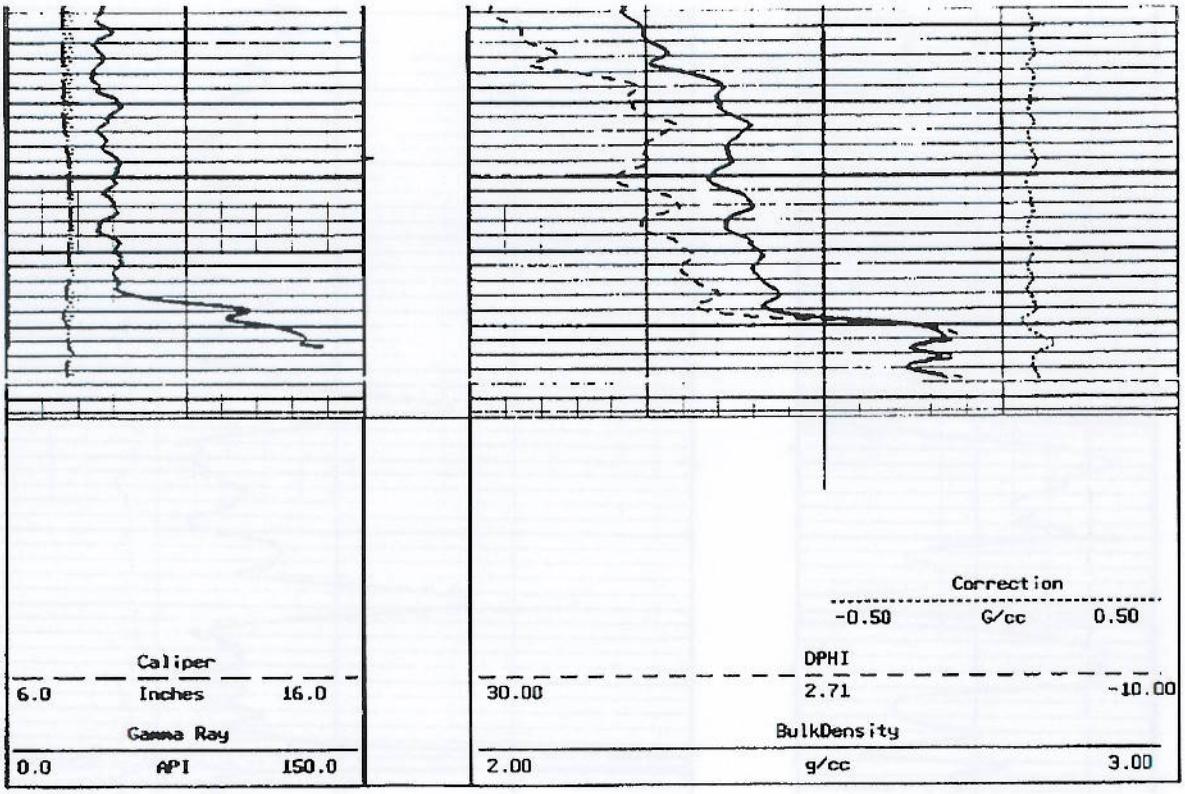
2900
3000



START DEPTH: 3082.6 FEET
DIRECTION: UP 1:240
FILE: 4915d.pts

MAIN SECTION

FILE DATE:
TIME:
PLOT DATE: 09-21- 105
TIME: 05:06 V1.58

Schlumberger BlueView :