The Perforators LLC

COMPENSATED DENSITY NEUTRON LOG

Company Charles N. Griffin
Well Leysa # 1
Field Hibbord Northeast
County Harper State Kansas

Location: API # : 15 077 21728

165' FNL & 1650' FEL

SEC 31 TWP 33S RGE 8W

Other Services: DIL

Permanent Datum: Ground Level Elevation 1305'
Log Measured From: KB 11' AGL
Drilling Measured From: KB

Elevation: K.B. 1316' D.F. —— G.L. 1305'

Date	1-2-11		
Run Number	One		
Depth Driller	4630'		
Depth Logger	4629'		
Bottom Logged Interval	4603'		
Top Log Interval	3300'		
Casing Driller	281'		
Casing Logger	276'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	8.9		
pH / Fluid Loss	10 / 14.0		
Source of Sample	Pit		
Rm @ Meas. Temp	1.5@60degf		
Rmf @ Meas. Temp	1.13@60degf		
Rmc @ Meas. Temp	2.4@60degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	3.05@122degf		
Time Circulation Stopped	1:45 p.m.		
Time Logger on Bottom	3:45 p.m.		
Maximum Recorded Temperature	122 degf		
Equipment Number	T045		
Location	Hays, KS.		
Recorded By	L. Smith		
Witnessed By	Mr.Bruce Reed	Mr. JR Griffin	

Fold Here

Comments

East of Sharon, South on 140th, east on hyw. 2, 1.5 south on 100th Ave., west into.

ABHV Caculated for 5.5" Casing.

Thanks for using The Perforators LLC Hays, KS. (785-621-4604)

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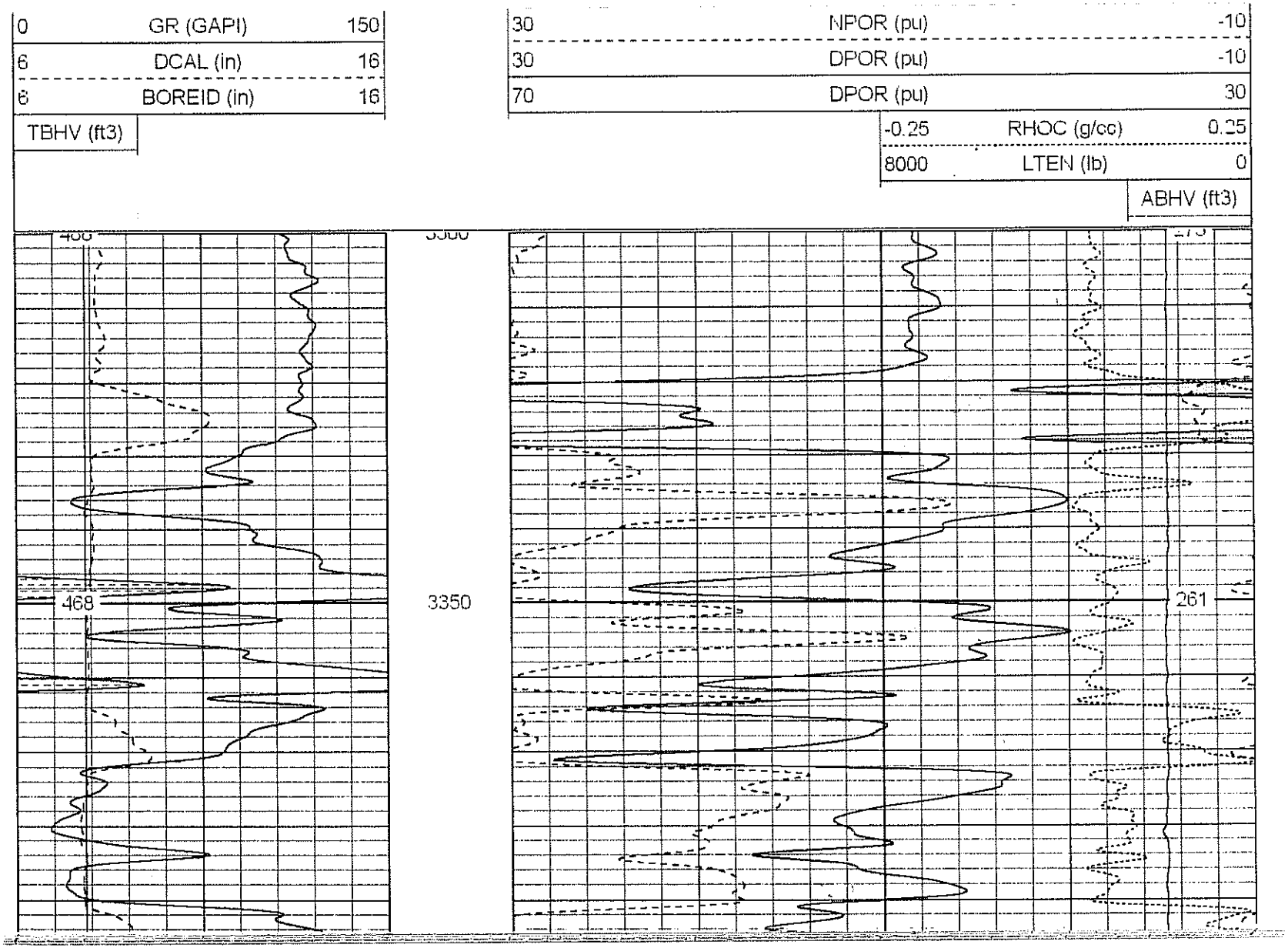
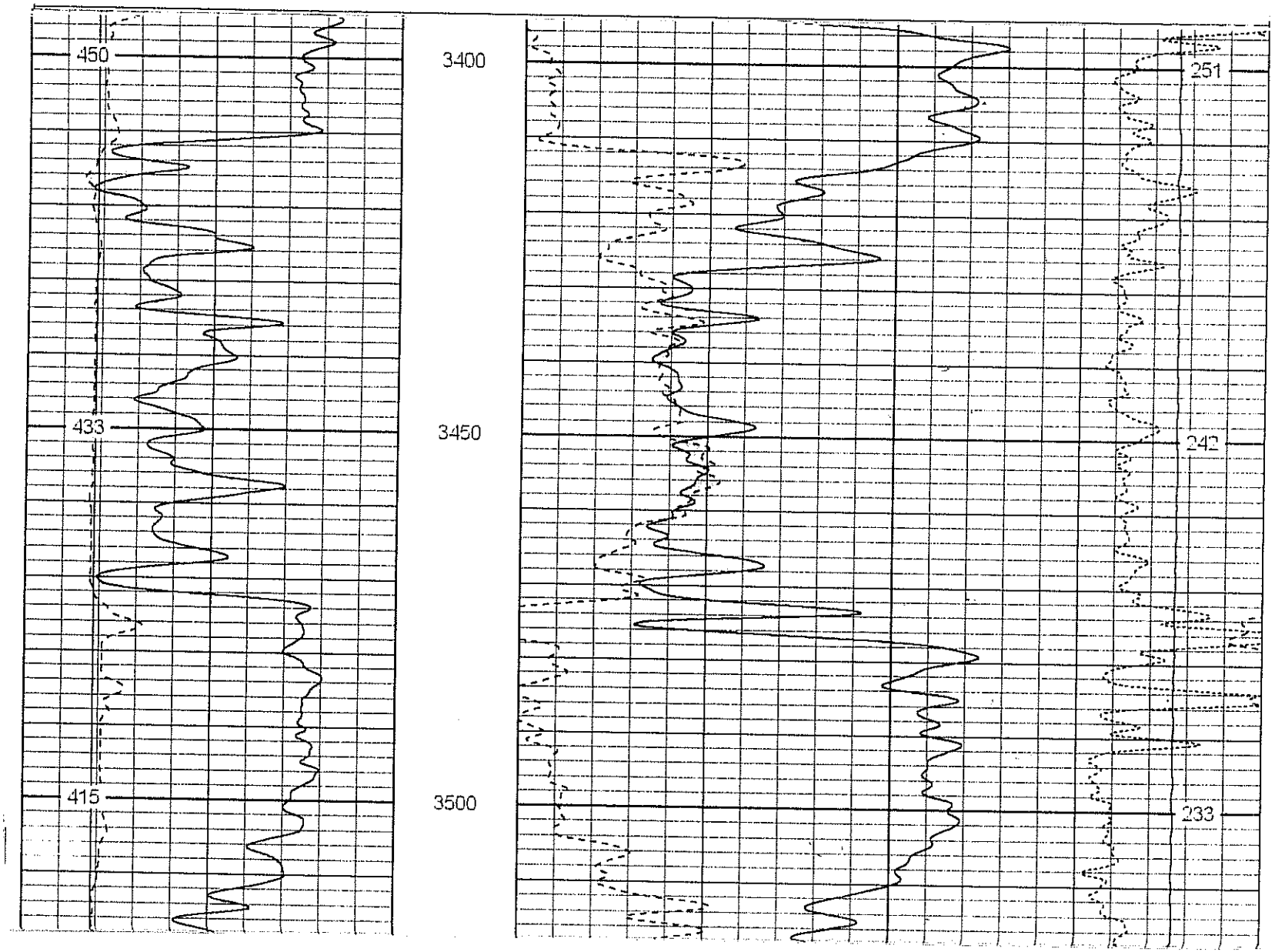
Main Pass

Database File:	cgleysa#1.db
Dataset Pathname:	pass3
Presentation Format:	kcdnl
Dataset Creation:	Sun Jan 02 16:16:28 2011 by Log Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240


0 GR (GAPI) 150
6 DCAL (in) 16
6 BOREID (in) 16
TBHV (ft3)
30 NPOR (pu) -10
30 DPOR (pu) -10
70 DPOR (pu) 30
-0.25 RHOC (g/cc) 0.25
8000 LTEN (lb) 0
ABHV (ft3)
468
3350
261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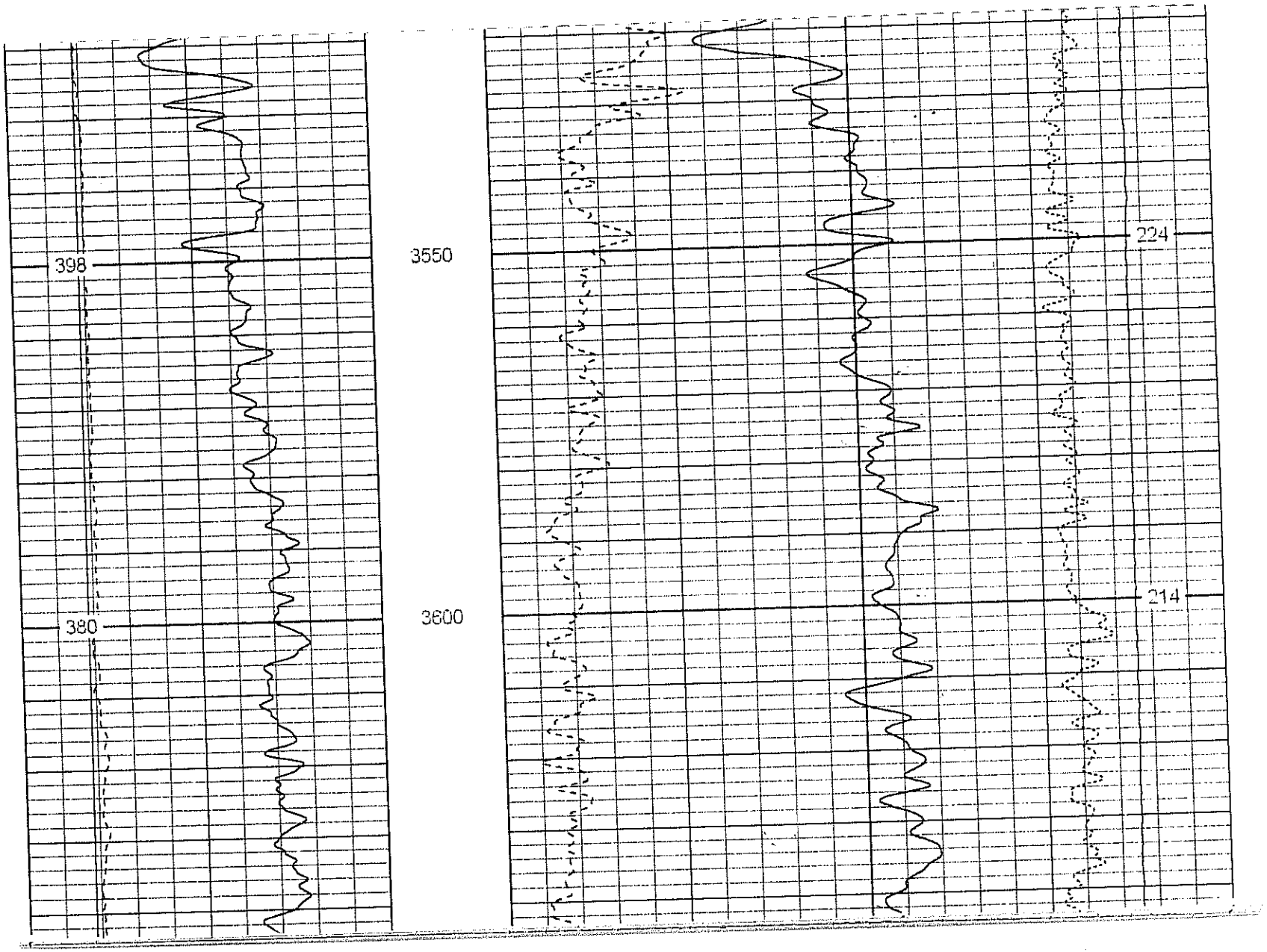
433
415
3400
3450
3500
251
242
233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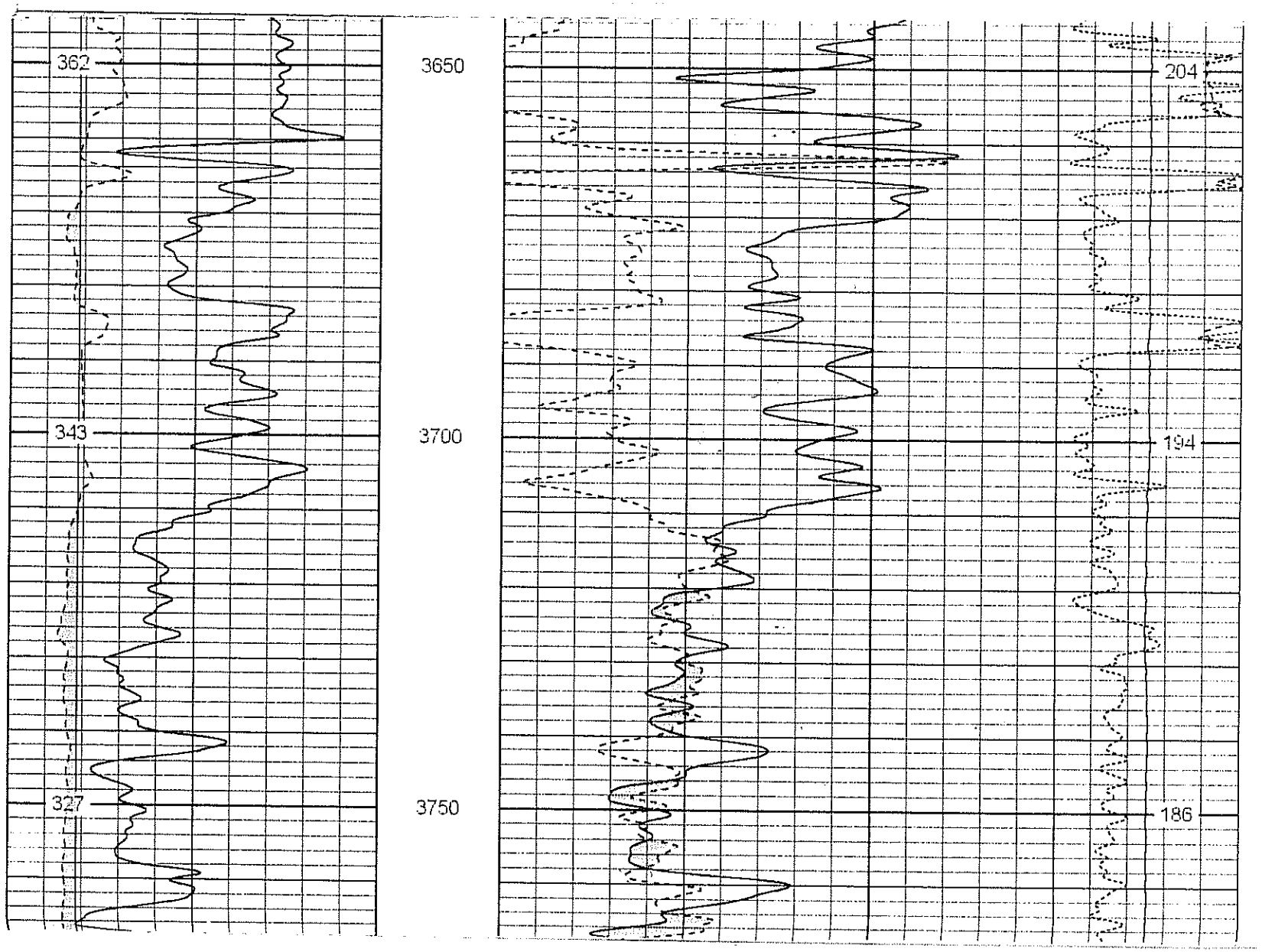
380
3550
3600
224
214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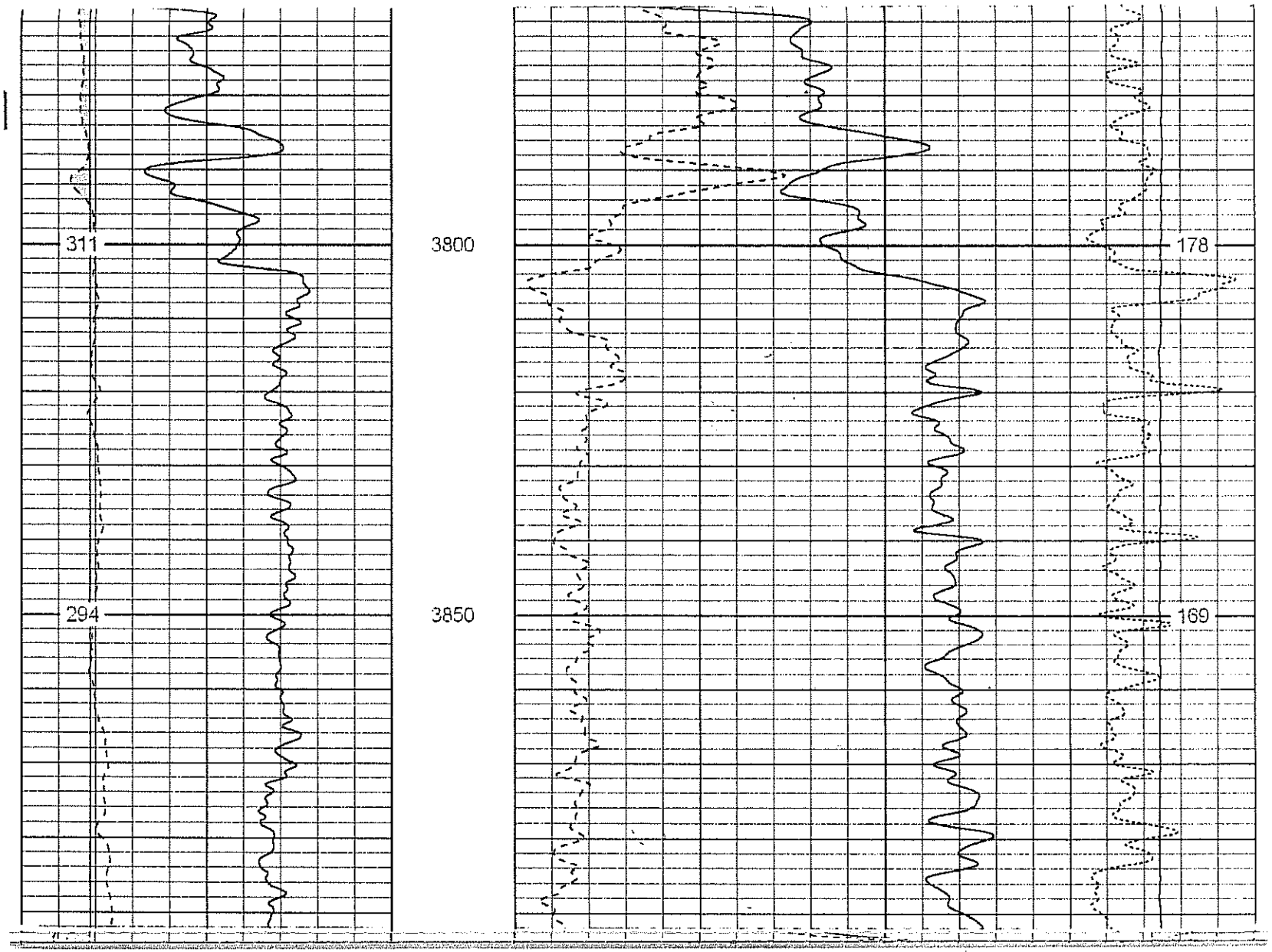
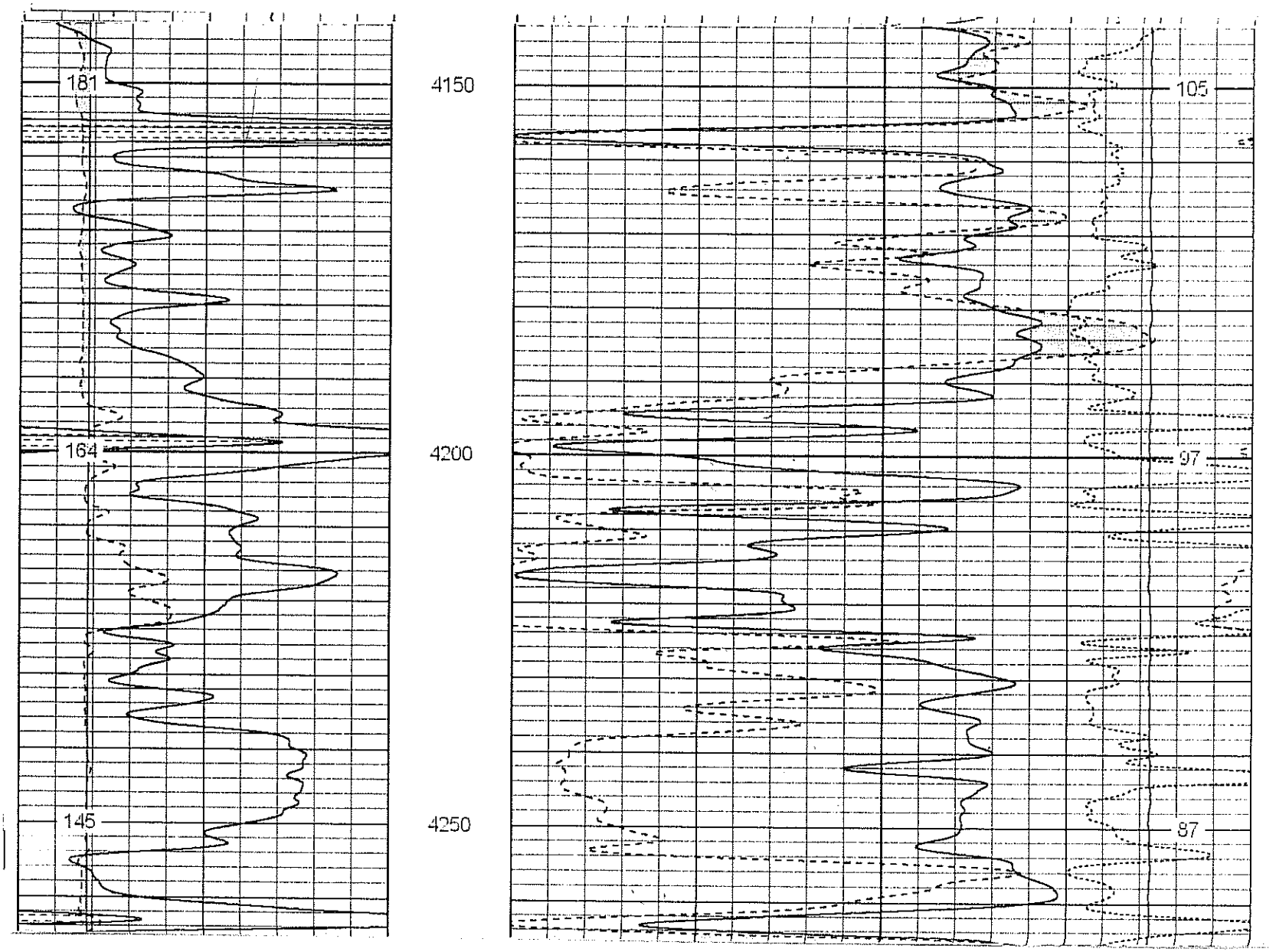
343
327
3650
3700
3750
204
194
186


311
294
3800
3850
178
169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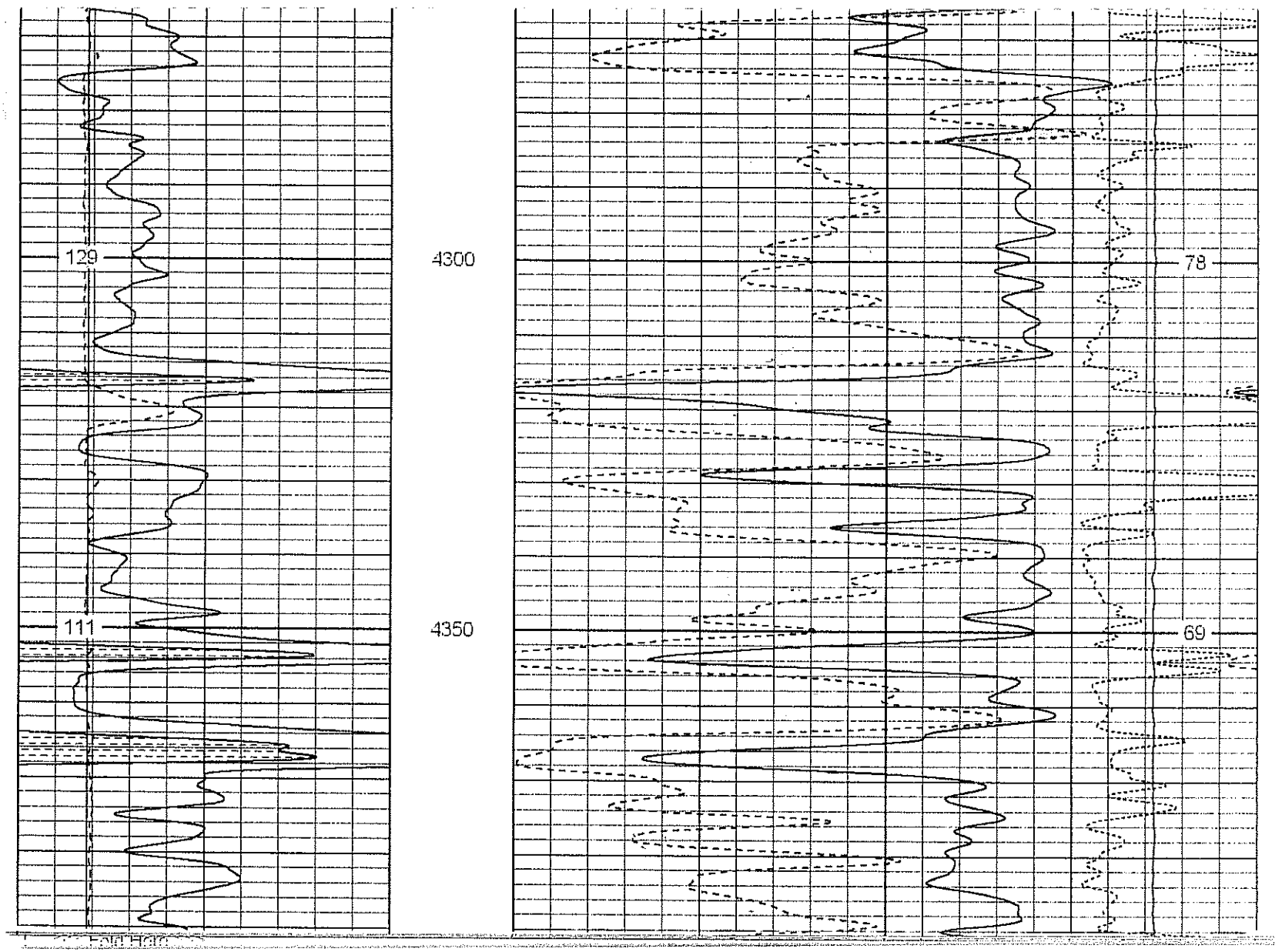
164
145
4150
4200
4250
105
97
87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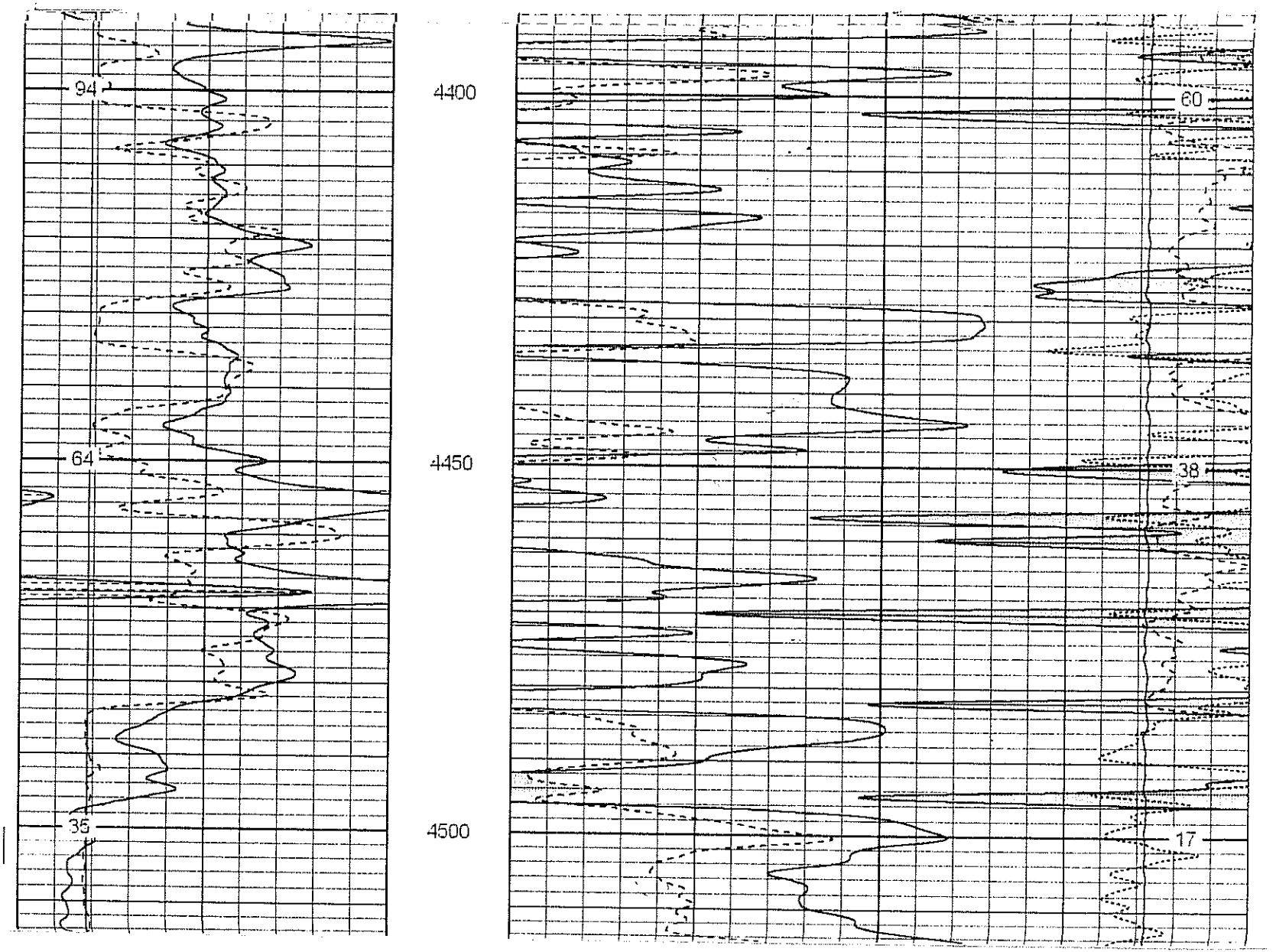
111
4300
4350
78
69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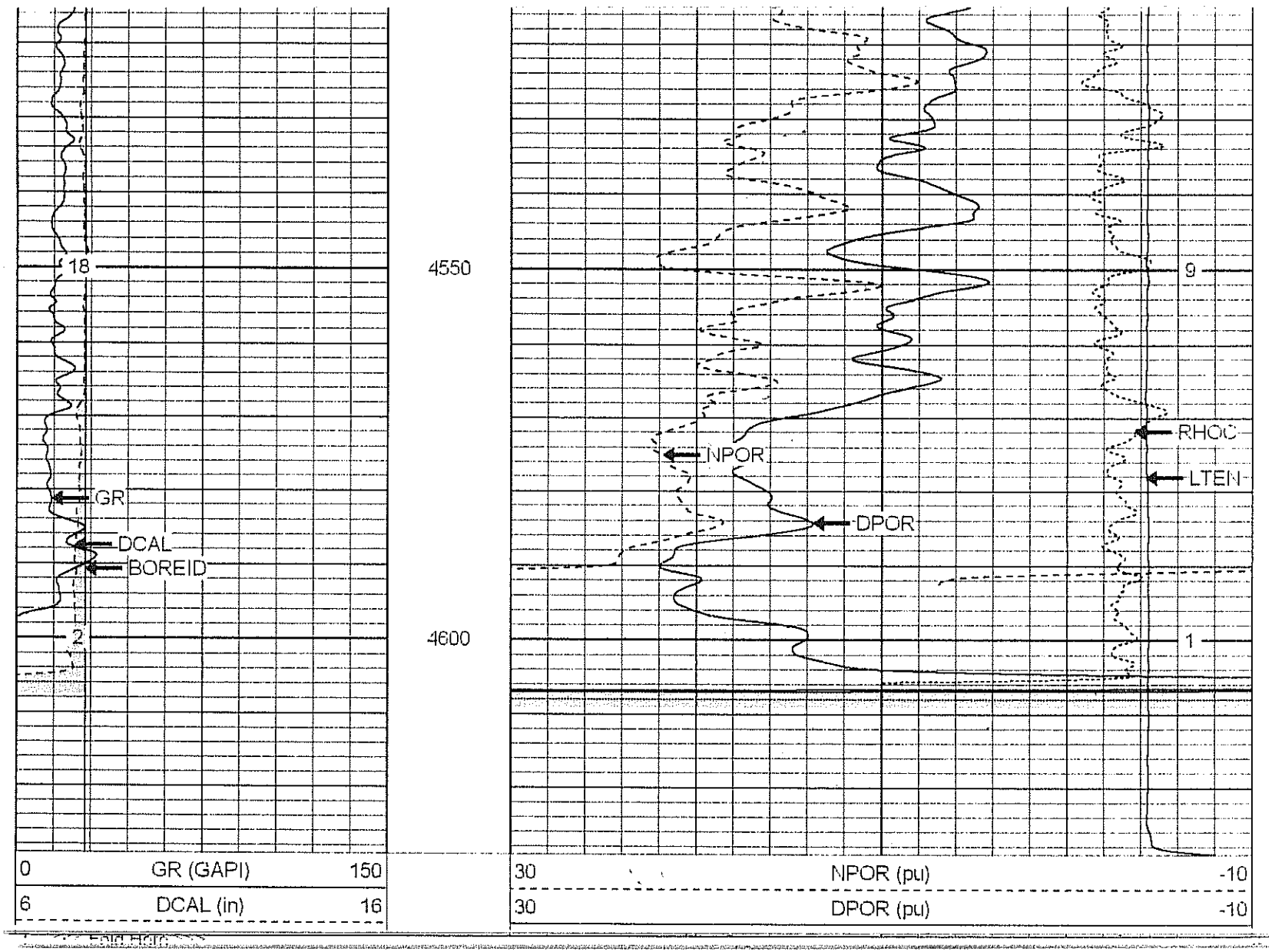
64
35
4400
4450
4500
60
38
17


18
2
4550
4600
GR
DCAL
BOREID
9
1
NPOR
DPOR
RHOC
LTEN
0
GR (GAPI)
150
6
DCAL (in)
16
30
NPOR (pu)
-10
30
DPOR (pu)
-10

6	BOREID (in)	16
TBHV (ft3)		

70	DPOR (pu)	30
-0.25	RHOC (g/cc)	0.25
8000	LTEN (lb)	0
	ABHV (ft3)	

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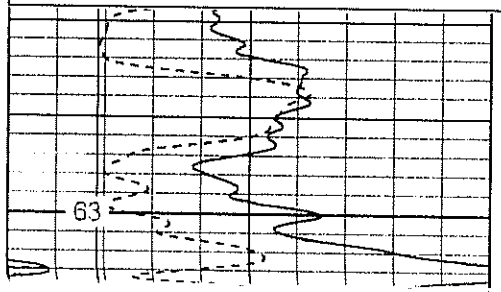
Repeat Pass

Database File:	cgleysa#1.db
Dataset Pathname:	pass2
Presentation Format:	kcdnl
Dataset Creation:	Sun Jan 02 16:05:09 2011 by Log Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240

0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
TBHV (ft3)		

30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30
-0.25	RHOC (g/cc)	0.25
8000	LTEN (lb)	0
	ABHV (ft3)	



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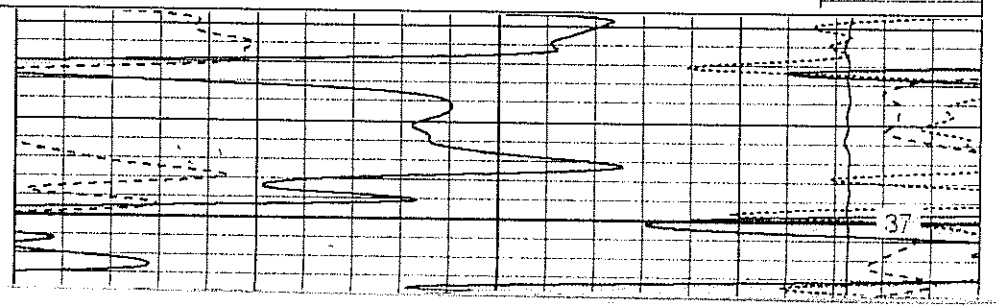
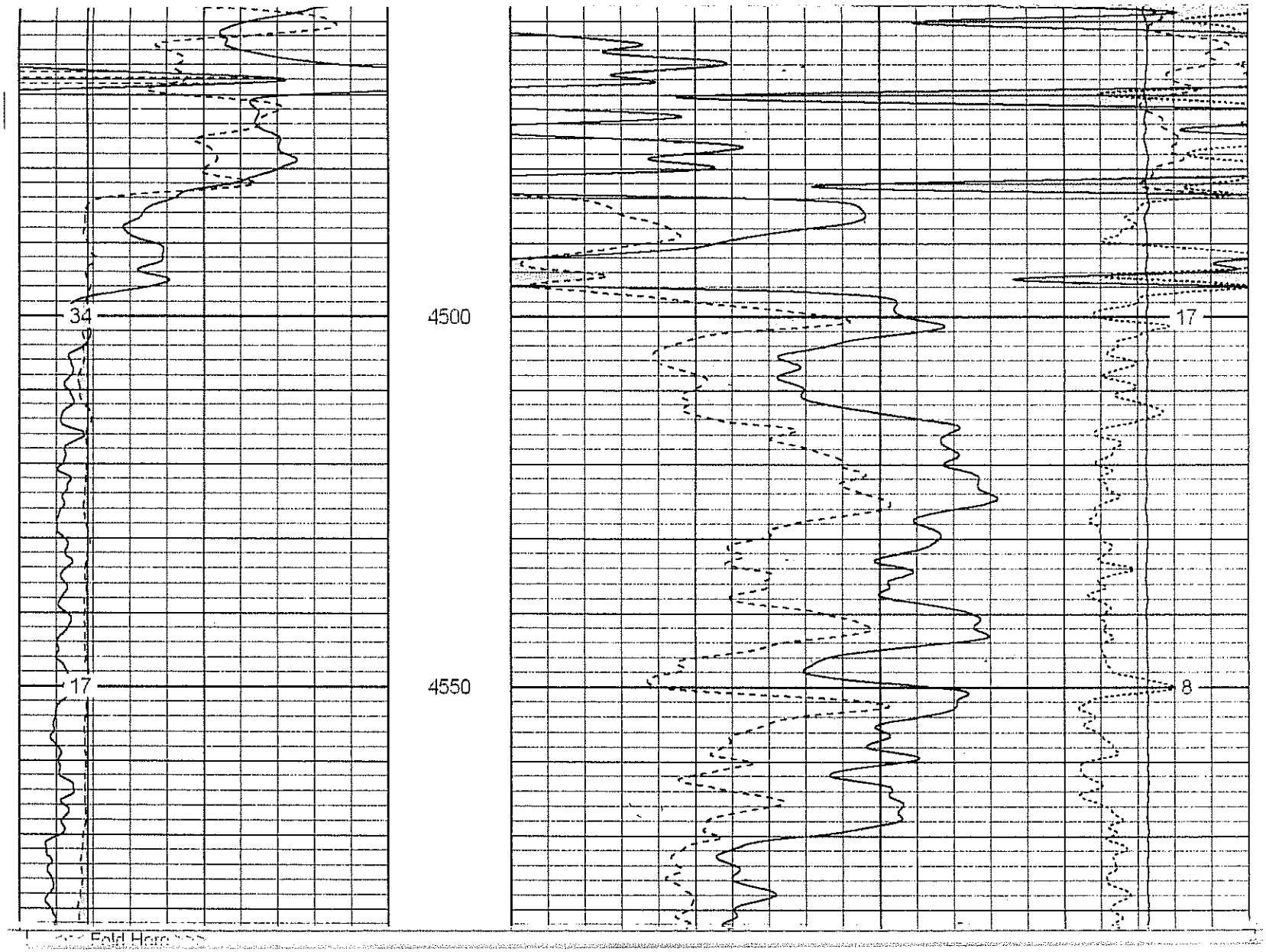
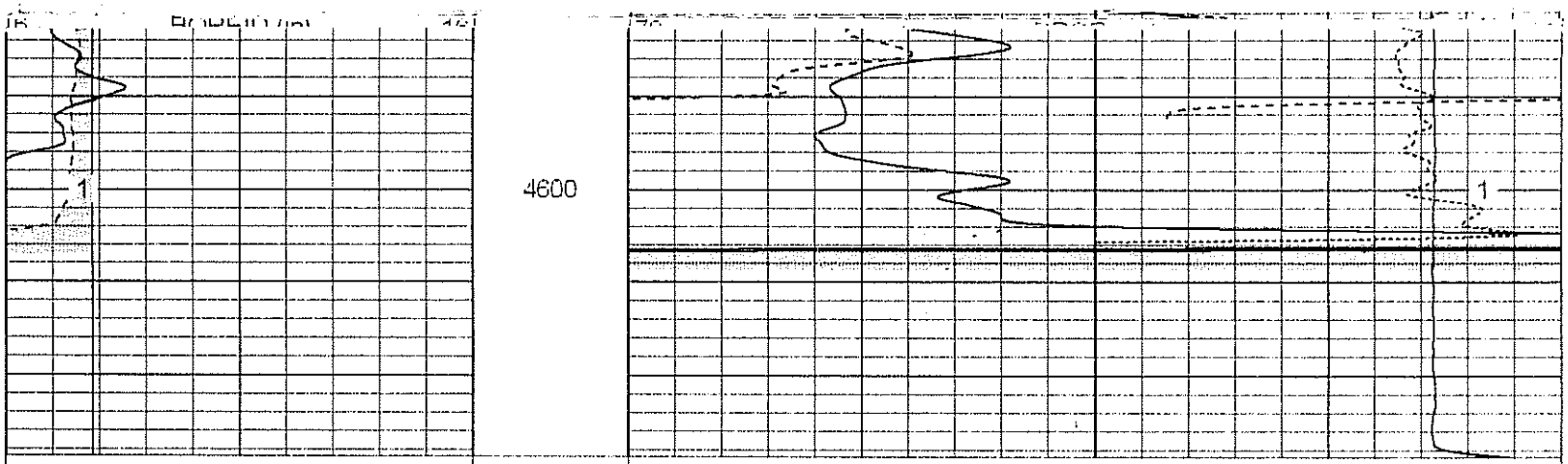



34
17
4500
4550
17
8



Calibration Report

Database File: cgleysa#1.db
Dataset Pathname: pass2
Dataset Creation: Sun Jan 02 16:05:09 2011 by Log Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:	080522-Probe
Surface Cal Performed:	Sun Nov 28 18:31:24 2010
Downhole Cal Performed:	Sun Nov 28 18:31:29 2010
After Survey Verification Performed:	Sun Nov 28 18:31:31 2010

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.001	0.638	V	0.000	400.000	mmho/m	627.349	-0.375
Medium	0.002	0.736	V	0.000	464.000	mmho/m	632.618	-1.506
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.000	0.638	V	0.000	400.000	mmho/m	627.595	-0.249
Medium	0.002	0.736	V	0.000	464.000	mmho/m	631.935	-1.099

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.352	399.812	mmho/m	-0.126	399.717	mmho/m	0.999	0.226
Medium	-0.595	464.193	mmho/m	-0.405	464.097	mmho/m	0.999	0.189
LL3		7.294	V		750.000	Ohm-m		
		-0.001	V		12.000	Ohm-m		
		-7.278	V		3745.000	mmho-m		

Compensated Density Calibration Report

Serial-Model:	2501DHT-DHT
Source / Verifier:	/
Master Calibration Performed:	Fri Dec 17 17:10:50 2010

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	765.56	301.40	cps
Aluminum	2.590	g/cc	172.00	211.00	cps

Spine Angle = 76.57 Density/Spine Ratio = 0.573

Size	Reading

Small Ring	7.70	in	6196.63
Large Ring	14.00	in	10494.70

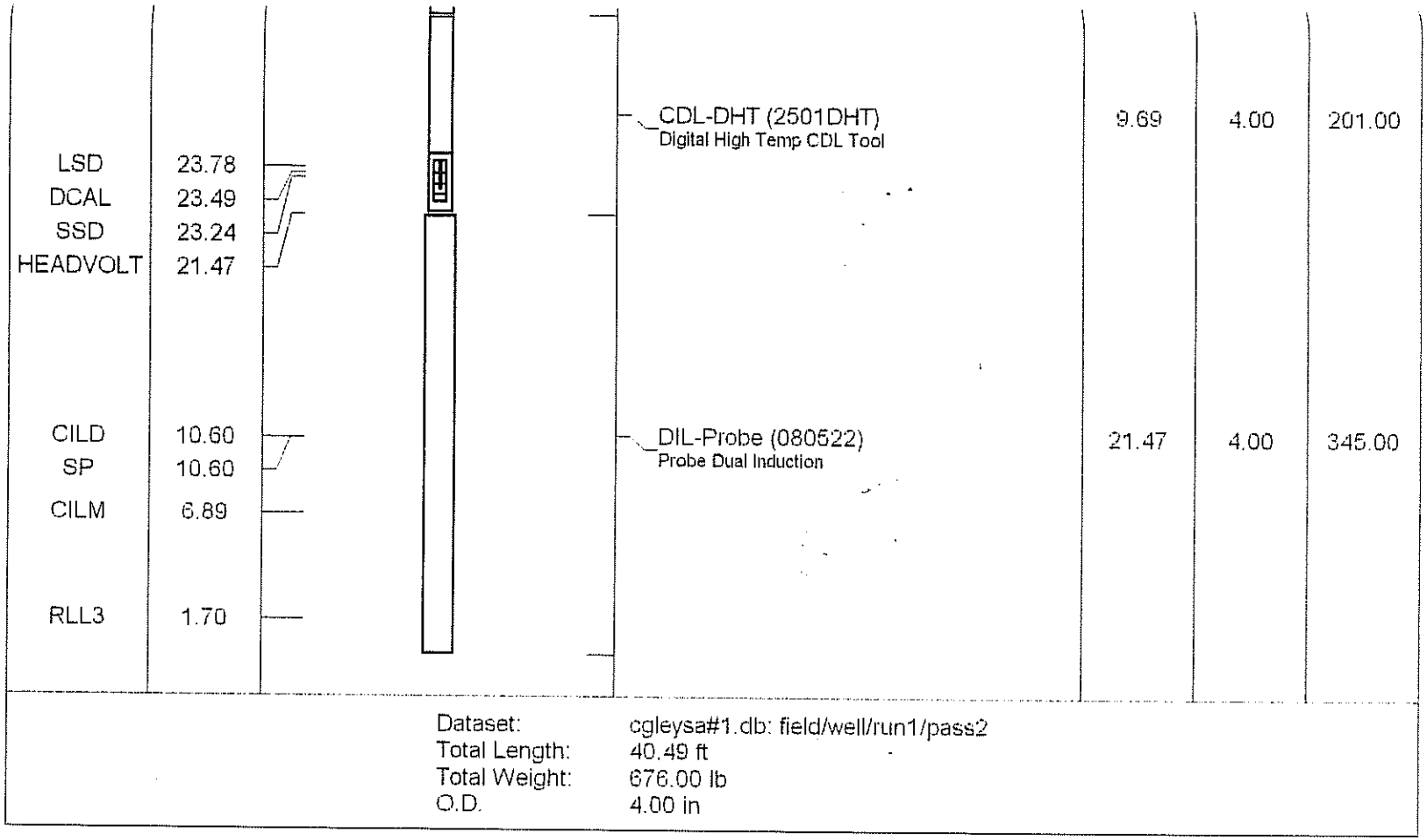
Gamma Ray Calibration Report

Serial Number:	2000	
Tool Model:	P2000	
Performed:	Wed Dec 08 08:39:12 2010	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2200	GAPI/cps

Neutron Calibration Report

Serial Number:	5108	
Tool Model:	PROBE	
Performed:	Wed Oct 13 20:24:01 2010	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			None	0.75	1.50	5.00
NEU	37.96		NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	32.57		GR-P2000 (2000)	3.67	3.25	40.00



Field Harness