



CEMENT BOND - GAMMA RAY LOG

N.E.B. COPY

Company ANADARKO CANADA CORPORATION

Well ANADARKO EMILE LAKE A-77

Field NETLA

Province NORTHWEST TERRITORIES

Location

A-77

LSD. SEC. TWP. RGE. W.

Permanent Datum GROUND LEVEL Elevation 624.70

Log Measured From KELLY BUSHING 6.10m ABOVE PERM DATUM

Drilling Measured From KELLY BUSHING

Elevations
K.B. 630.80
D.F.
G.L. 624.70

Date MARCH 26, 2004

Perforated Intervals

Run Lumber ONE

Log Type CBL

Depth - Driller 2265.0

Depth - Logger 2214.0m

Bottom Interval 2214.0m

Top Interval 1850.0m

Fluid in Hole 3% KCL

Level FULL

Wellhead Pressure NULL

Tool Serial Number 1076

Station FORT ST JOHN

Unit No. / Location #110

Recorded By BRAM LASSETER

Witnessed By J. GRAVES

Services

Bridge Plug

Packer

Retainer

Junk Basket

Gauge Ring

96.00m

Style

Depth

None

Other Services

44577

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.

Correlated to: PRECISION WIRELINE TECH

Date: MARCH 16, 2004

Log Type: SPECTRAL PE DENSITY COMPENSATED NEUTRON GAMMA RAY LOG

Remarks: LOGGED AS PER CUSTOMER REQUEST

Sensor	Offset (m)	Schematic	Description	Len (m)	OD (mm)	Wt (kg)
THV	4.05					
CCL	3.83		CS8CCL-CSSMCCL (CSSM) Computer Sonics CSSM Collar Locator	0.38	79.38	4.99
GR	3.29					
			CS8GR-CSSM GR (CSSM) Computer Sonics CSSM Gamma Ray	1.73	79.38	9.07
WVFSUM	1.53					
WVFS1	1.53					
WVFS2	1.53					
WVFS3	1.53					
WVFS4	1.53					
WVFS5	1.53					
WVFS6	1.53		CS8SCBL-CSSMRAD (CSSM) Computer Sonics Multiplexed CSSM Sector Bond	1.75	79.38	45.36
WVFS7	1.53					
WVFS8	1.53					
WVF3FT	1.36					
WVF5FT	1.07					
WVFCAL	0.19					
TEMP	0.06		CS8TEMP-CSSMRAD (CSSM1) Computer Sonics CSSM Radial Temperature	0.19	79.38	13.61

Dataset: ANADARKO/A77/run1/pass6
Total Length: 4.05
Total Weight: 73.03
O.D.: 79.38

Segmented Cement Bond Log Calibration Report

Serial Number: CSSM
Tool Model: CSSMRAD
Calibration Casing Diameter: 139.700 mm
Calibration Depth: 16.219 m

Master Calibration, performed Thu Nov 20 16:21:23 2003:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	2.430	0.000	71.921	29.599	0.000
CAL	0.000	1.972				
5'	0.000	2.377	0.000	71.921	30.252	0.000
SUM	0.000	2.455	0.000	71.921	29.301	0.000
S1	0.000	2.499	0.000	100.000	40.020	0.000
S2	0.000	2.492	0.000	100.000	40.131	0.000
S3	0.000	2.479	0.000	100.000	40.346	0.000
S4	0.000	2.392	0.000	100.000	41.812	0.000
S5	0.000	2.395	0.000	100.000	41.757	0.000
S6	0.000	2.442	0.000	100.000	40.943	0.000
S7	0.000	2.485	0.000	100.000	40.248	0.000
S8	0.000	2.499	0.000	100.000	40.020	0.000

Internal Reference Calibration, performed Mon Feb 09 08:48:35 2004:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.005	1.996	0.000	1.972	0.990	-0.005

Air Zero Calibration, performed Fri Mar 26 04:24:32 2004:

	Raw (v)		Calibrated (v)		Results	
	Zero		Zero			Offset
3'	0.007		0.000			-0.007

5'	0.000	0.000	-0.000
SUM	0.010	0.000	-0.010
S1	0.028	0.000	-0.028
S2	0.026	0.000	-0.026
S3	0.019	0.000	-0.019
S4	0.019	0.000	-0.019
S5	0.017	0.000	-0.017
S6	0.016	0.000	-0.016
S7	0.016	0.000	-0.016
S8	0.014	0.000	-0.014

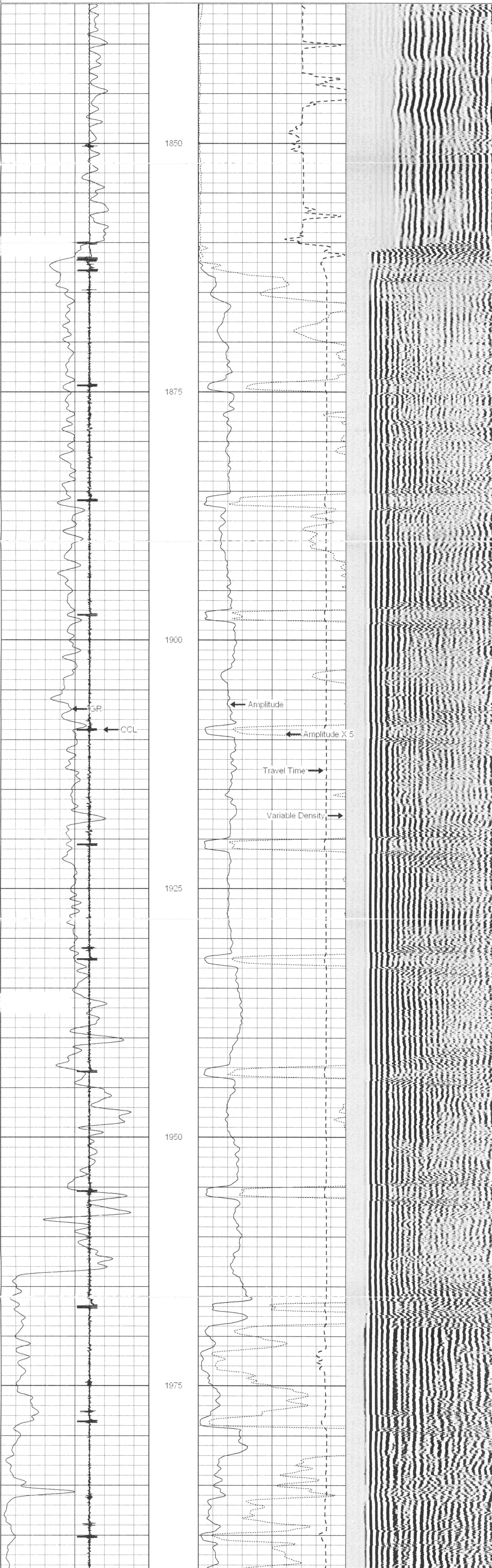
Gamma Ray Calibration Report

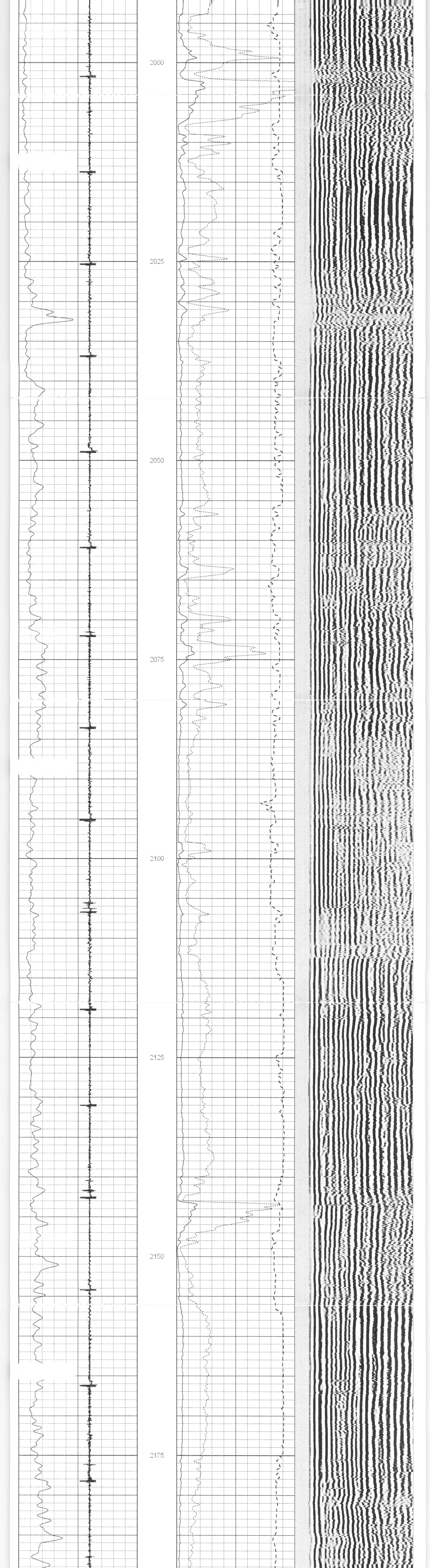
Serial Number:	CSSM	
Tool Model:	CSSM_GR	
Performed:	Sun Jun 13 13:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	
Calibrator Reading:	1.0	
Sensitivity:	1.0000	GAPI/

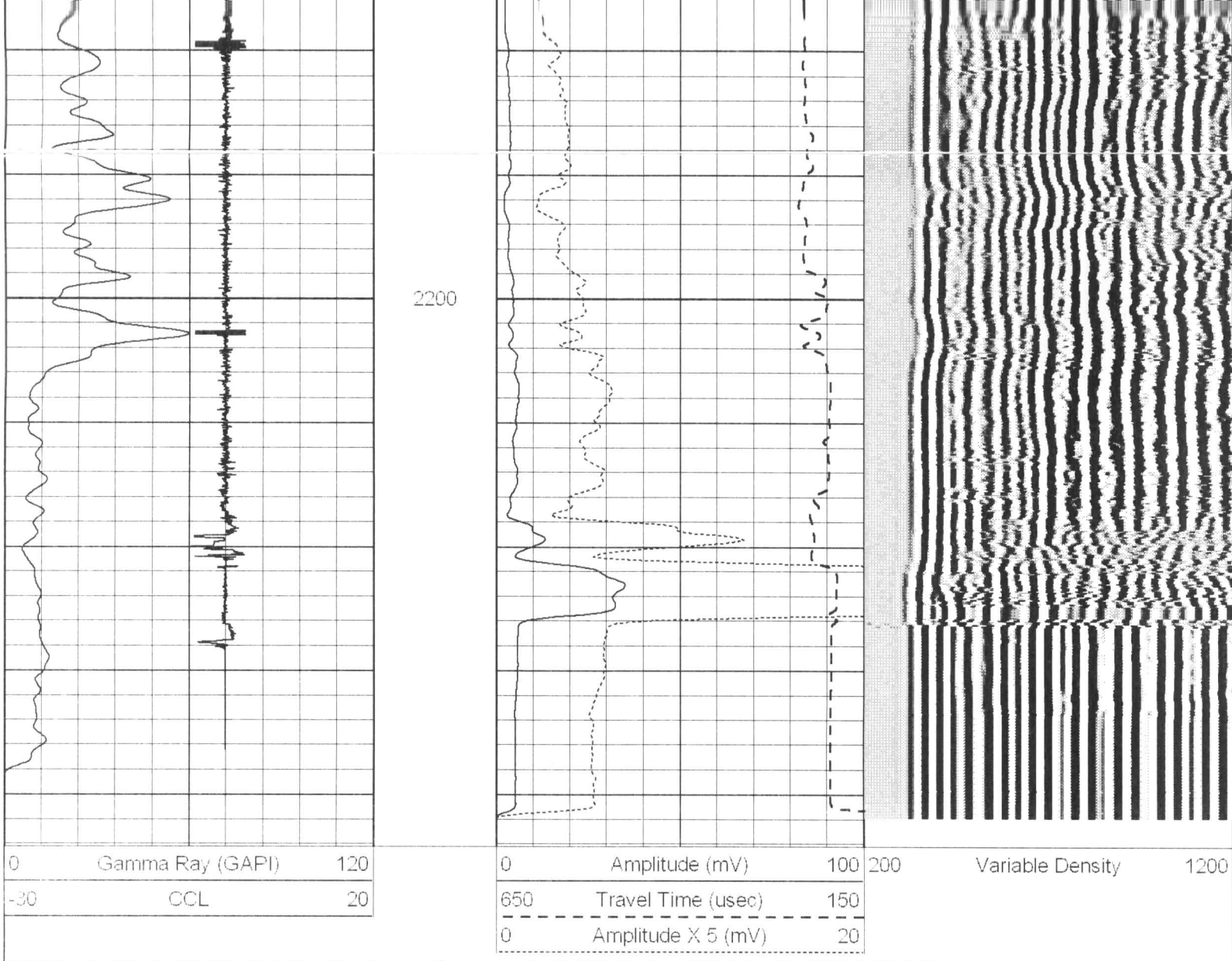
MAIN PASS 0 MPA

Database File:	d4577.db
Dataset Pathname:	ANADARKO/A77/run1/pass4
Presentation Format:	cbl01
Dataset Creation:	Fri Mar 26 05:31:37 2004 by Log Warrior 7.0 Standar
Charted by:	Depth in Meters scaled 1:240

0	Gamma Ray (GAPI)	120	0	Amplitude (mV)	100	200	Variable Density	1200
-30	CCL	20	650	Travel Time (usec)	150			
			0	Amplitude X 5 (mV)	20			

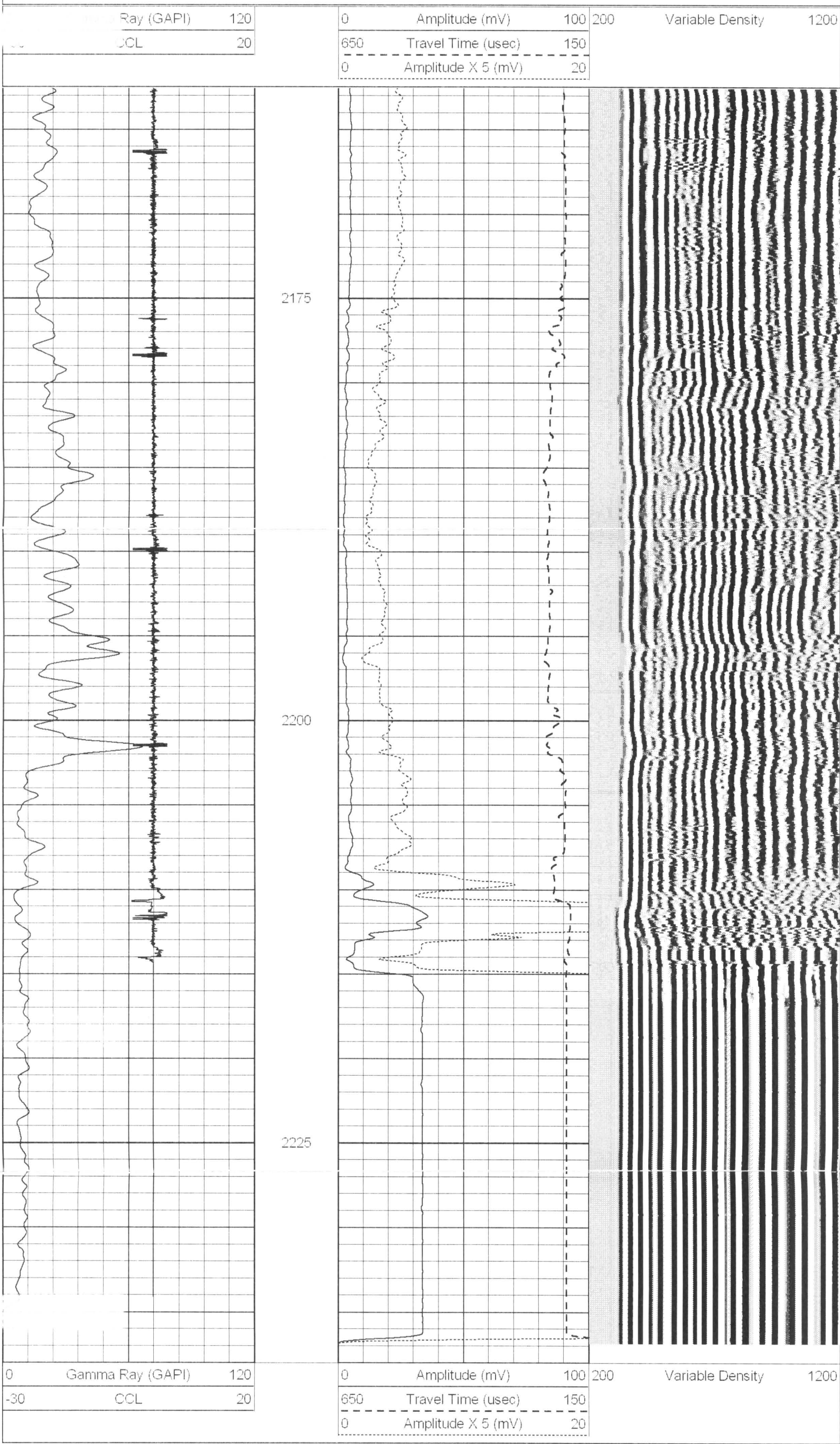






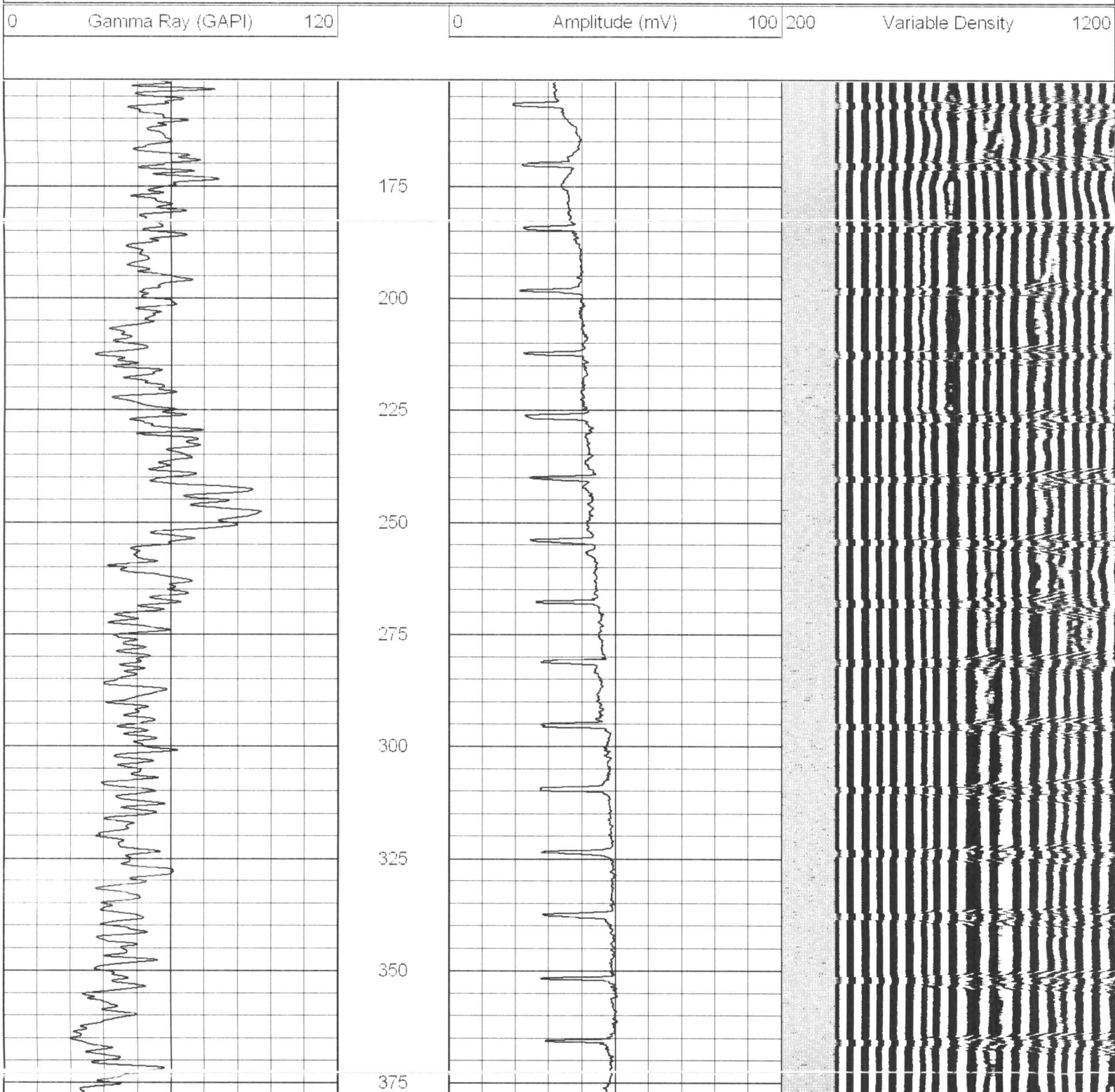
REPEAT PASS

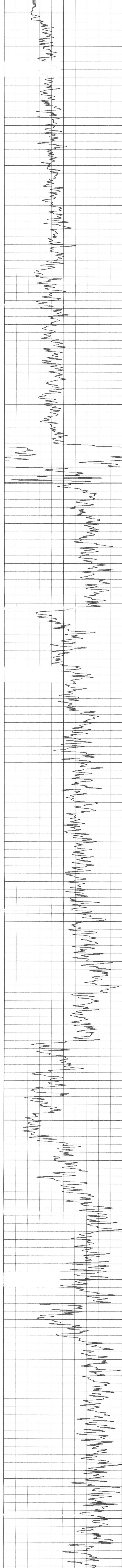
Database File: d4577.db
Dataset Pathname: A\IADARKO\A77\run1\pass3
Presentation Format: cbl01
Dataset Creation: Fri Mar 26 05:20:18 2004 by Log Warrior 7.0 Standar
Charted by: Depth in Meters scaled 1:240



HIGH SPEED OVERVIEW

Database File: d4577.db
Dataset Pathname: A\IADARKO\A77\run1\pass1
Presentation Format: cblhsov
Dataset Creation: Fri Mar 26 04:30:26 2004 by Log Warrior 7.0 Standar
Charted by: Depth in Meters scaled 1:1200





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