

HALLIBURTON

CEMENT BOND
LOG

SCALE 1:240

Company OXY USA INC.
Well BAKER C-2
Field KINSLER
County MORTON State KANSAS

Company OXY USA INC.
Well BAKER C-2
Field KINSLER
County MORTON State KANSAS
API No.: 15-081-21920 Serv #: 6
Location: 2310' FSL & 330' FEL
Other Services
N/A

Sec: 29 Twp: 32S Rge: 39W

GROUND LEVEL Elevation 3182'

Elevation

Log Measured From K.B. 13 Ft. above perm. datum

K.B. 3195'
D.F. 3194'
G.L. 3182'

Drilling Measured From K.B.

Date @ Time Logged 14 AUG 2010 @ 11:00

Type Fluid in Hole

WATER

Run No. ONE

Density of Fluid

8.33

Depth - Driller 6100'

Fluid Level

35'

Depth - Logger 6045'

Cement Top Est. Logged

4820'

Bottom - Logged Interval 6042.5'

Equipment / Location

10011366 / LIBERAL
P. NICHOLS

Top - Log Interval 4320'

Recorded by

CASEY BITNER

Max. Recorded Temp. 142 F

Witnessed by

CEMENTING DATA

Surface

Protection

String

Liner

String

String

String

N/A

N/A

N/A

Date / Time Cemented

String

String

Primary / Squeeze

N/A

N/A

Expected

String

String

Compressive Strength

String

String

Cement Volume

String

String

Cement Type / Weight

String

String

Formulation

String

String

Mud Type / Mud Wgt.

String

String

Borehole Record

String

String

Run Number

String

String

ONE

String

String

TWO

String

String

7.875

String

String

1688'

String

String

6100'

String

String

8.625

String

String

5.5

String

String

17#

String

String

<<< Fold Here >>>

HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

Comments

CORRELATED TO HES DENSITY LOG DATED 10 AUG 2010.

CORRECTED 13.5'

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICE
ANY QUESTION OR COMMENTS PLEASE CALL 1-620-624-8123

YOUR HALLIBURTON CREW TODAY WAS: GONZALEZ.

Service Ticket No. 7565508 API No. 15-081-21920 PGM Ver WARRIOR 7.0

The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client

EQUIPMENT DATA

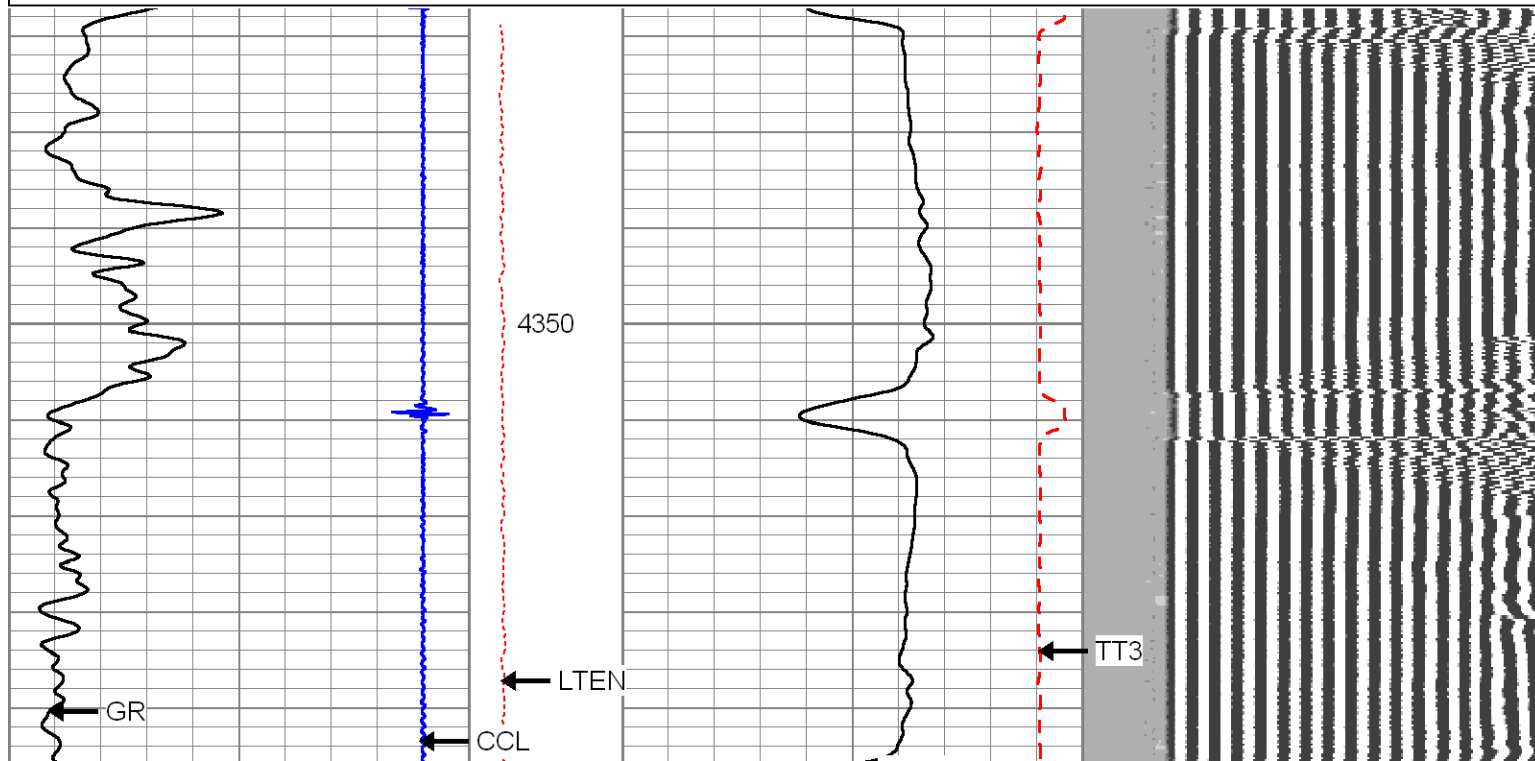
GAMMA RAY

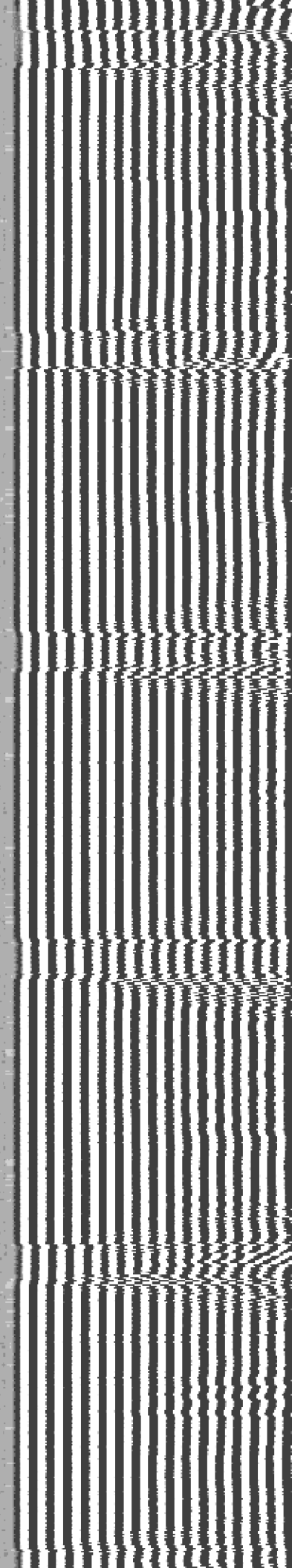
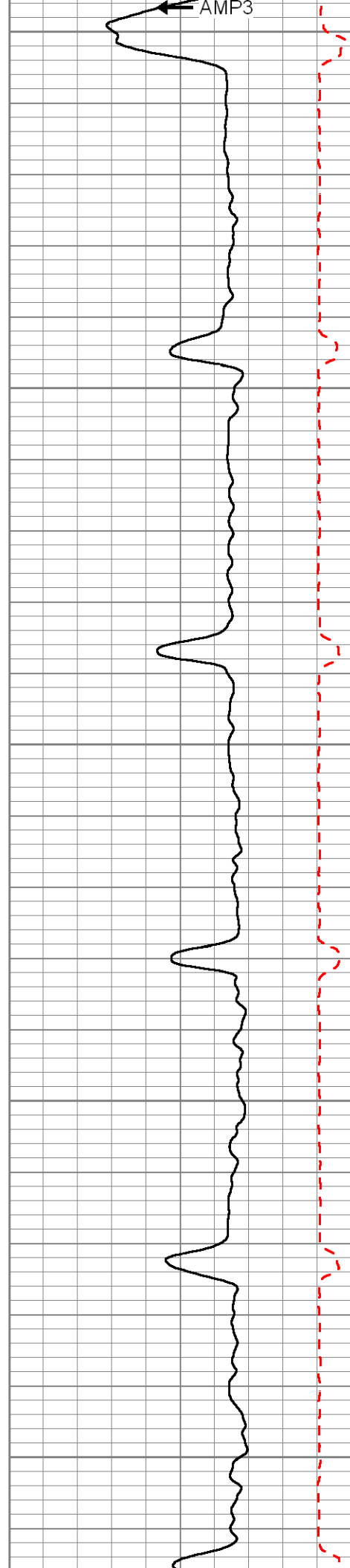
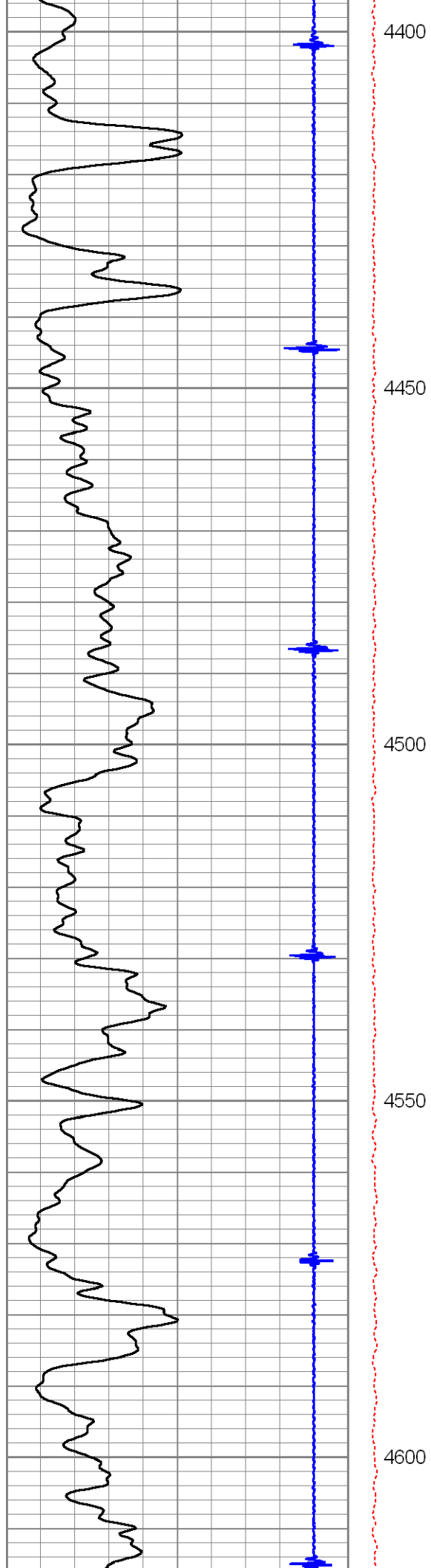
CBL

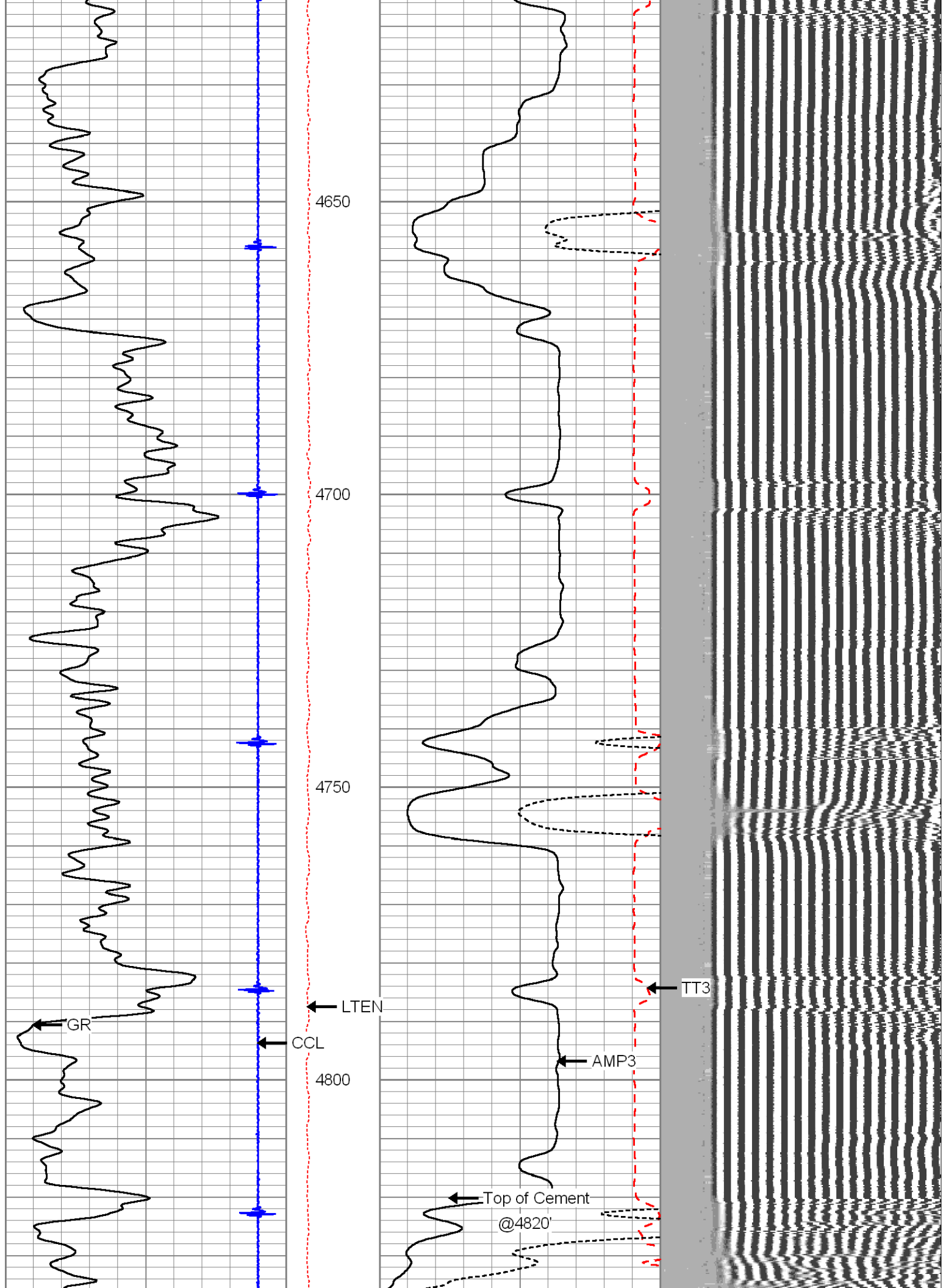
Run No. ONE Run No. ONE Run No. ONE Run No. ONE

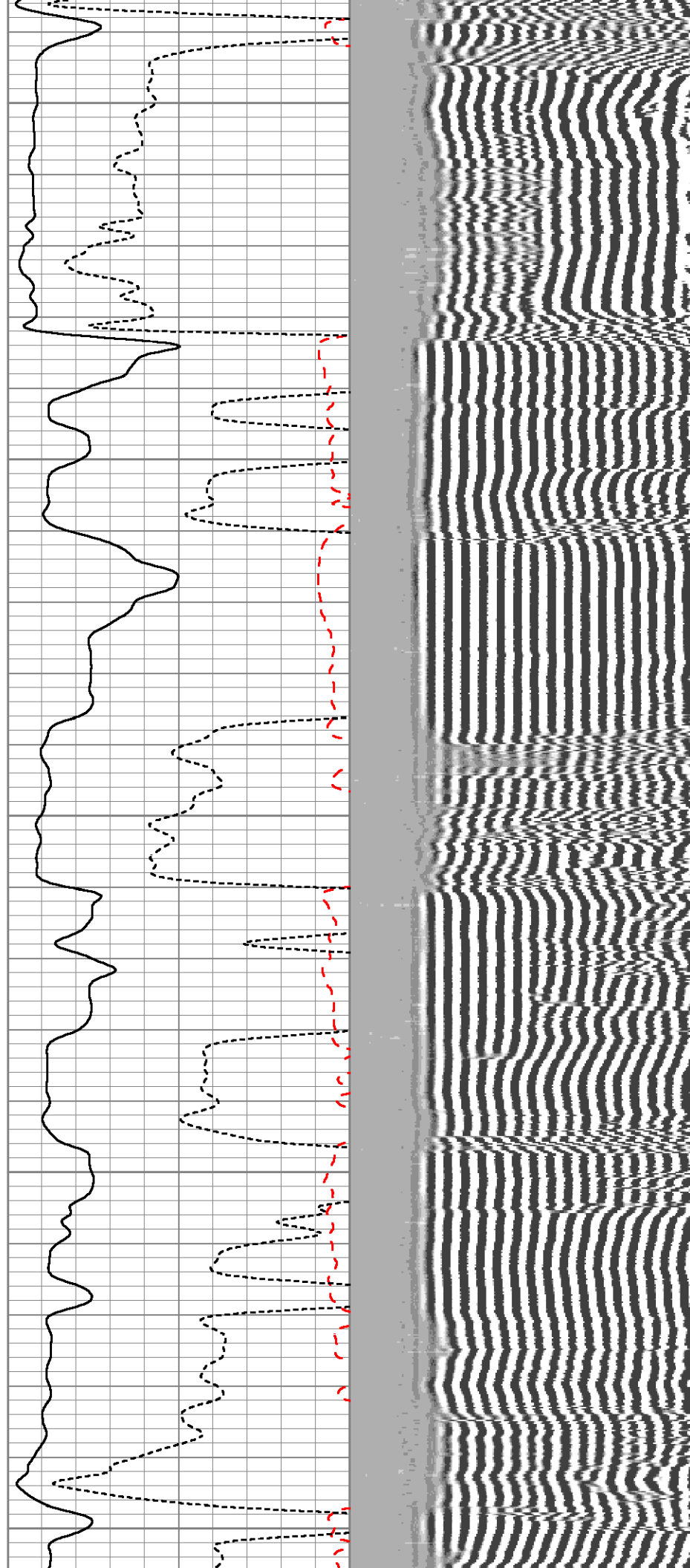
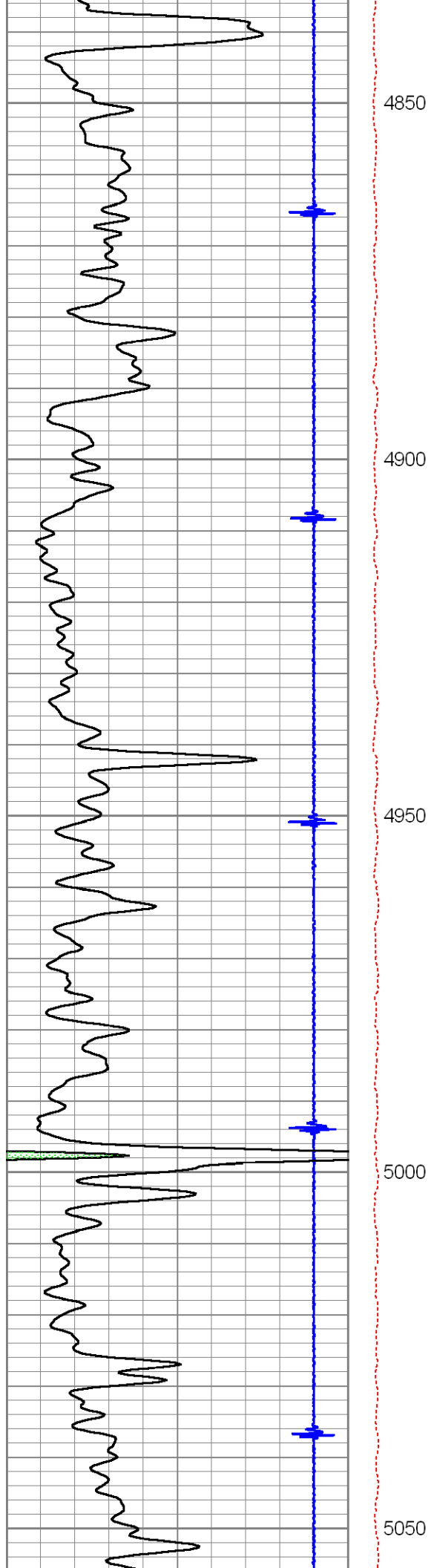
Run No.	ONE	Run No.	ONE	Run No.		Run No.	
Serial No.	060633	Serial No.	070714	Serial No.		Serial No.	
Model No.	PROBE	Model No.	PROBE	Model No.		Model No.	
Diameter	2.75	Diameter	2.75	Diameter		Diameter	
LOGGING DATA							
General Data							
Pass	Depths		Well Head	Speed	Logging Run Comments		
No.	From	To	Pressure	Ft/Min			
ONE	6045'	4320'	0	45	MAIN PASS		
	GAMMA RAY		AMPLITUDE		MSG		TRAVEL TIME
Pass	Scale		Scale		Scale		Scale
No.	L	R	L	R	L	R	L L
ONE	0	150	0	100	200	1200	177 277
	150	300	0	20			
DIRECTIONAL INFORMATION							
Maximum Deviation		deg. @		KOP			

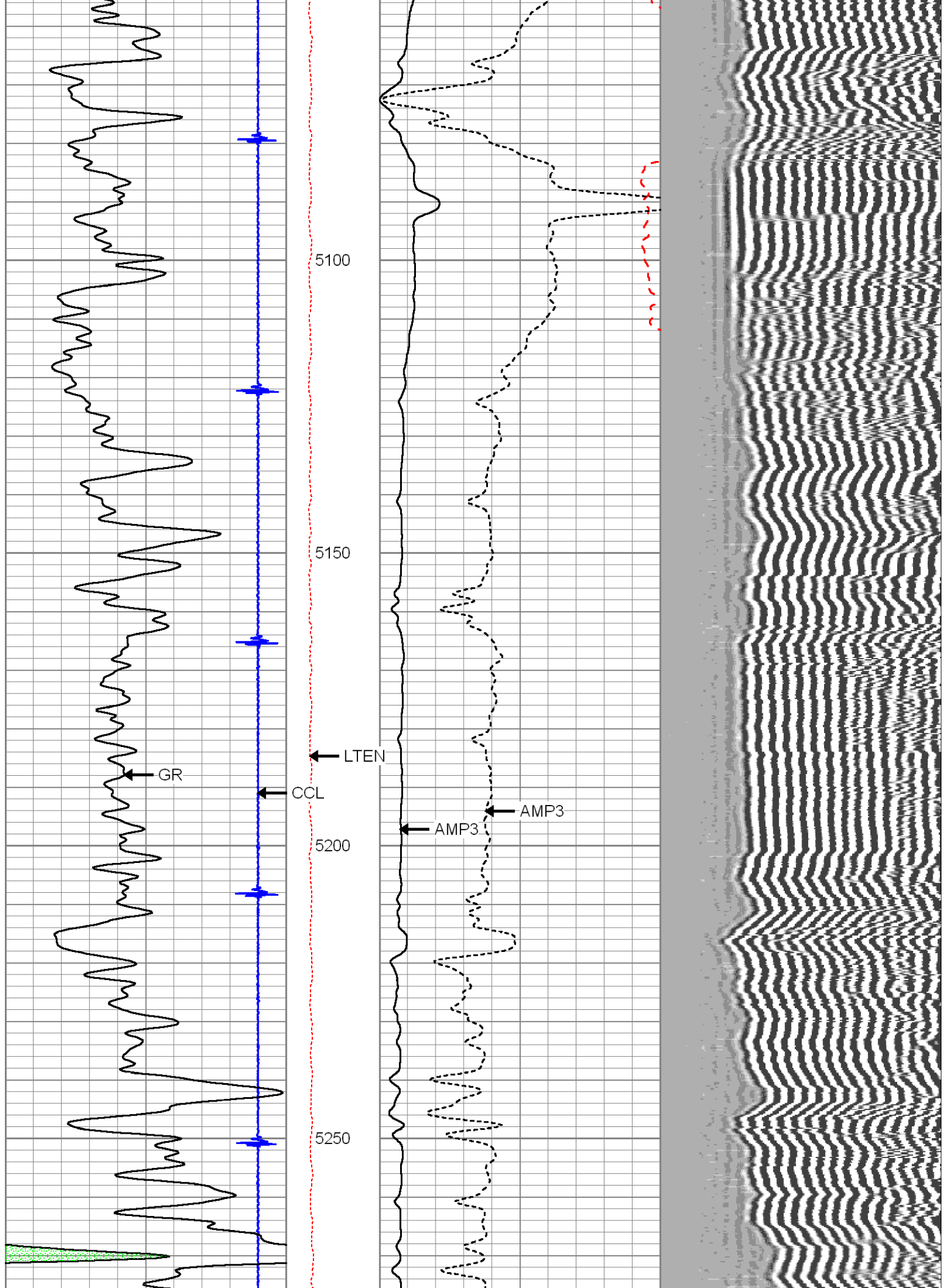
HALLIBURTON MAIN LOG SECTION SCALE 1:240 Database File:oxy_baker_c2_cbl.db Dataset Pathname:pass3 Presentation Format:cbl_pn Dataset Creation:Sat Aug 14 10:08:02 2010 by Log Halliburton Casedho Charted by:Depth in Feet scaled 1:240							
9	Collar Locator	-1	LTEN	0	Amplitude (mV)	100	200
0	GR (GAPI)	150	0	(lb)'1000	177	Travel Time (usec)	277
150	gr (GAPI)	300			0	AAMP (mV)	20

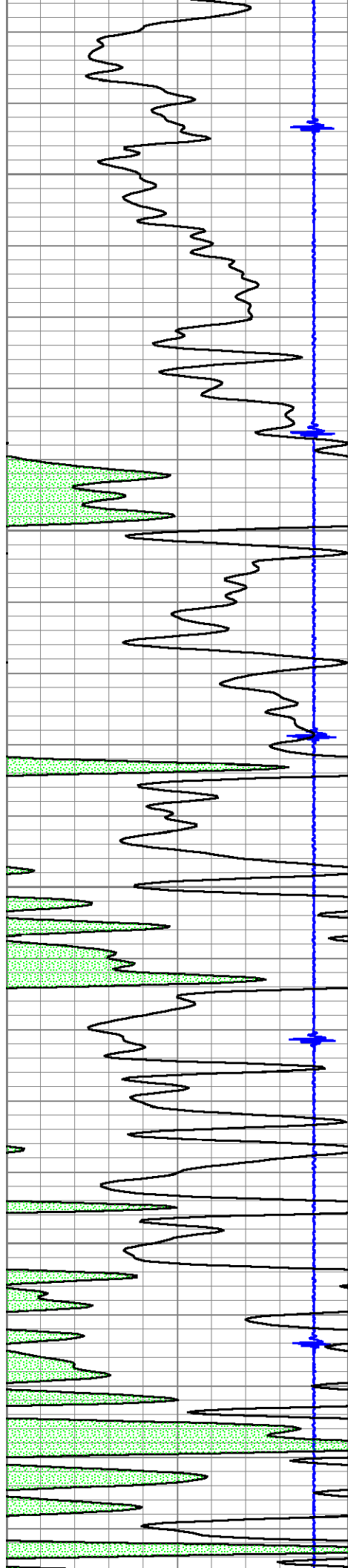










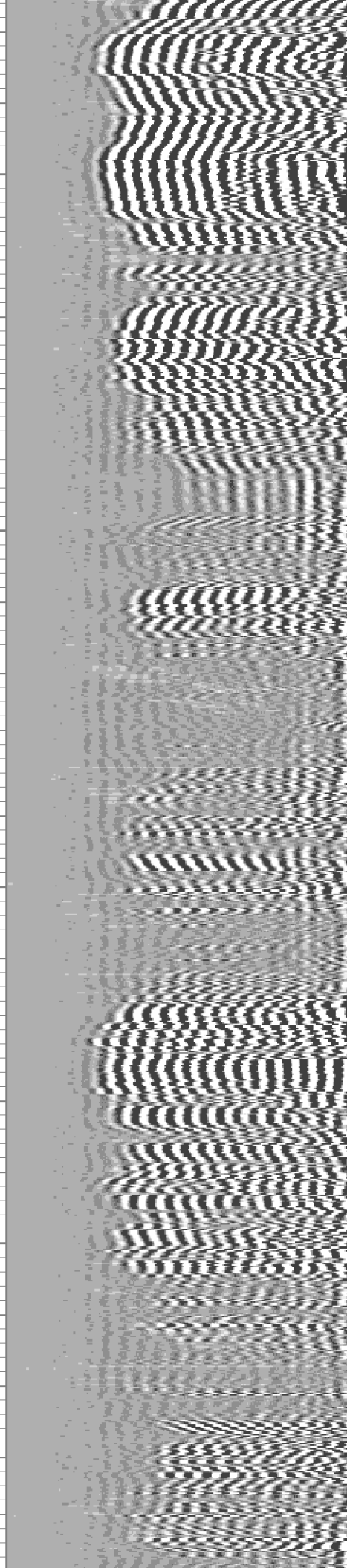
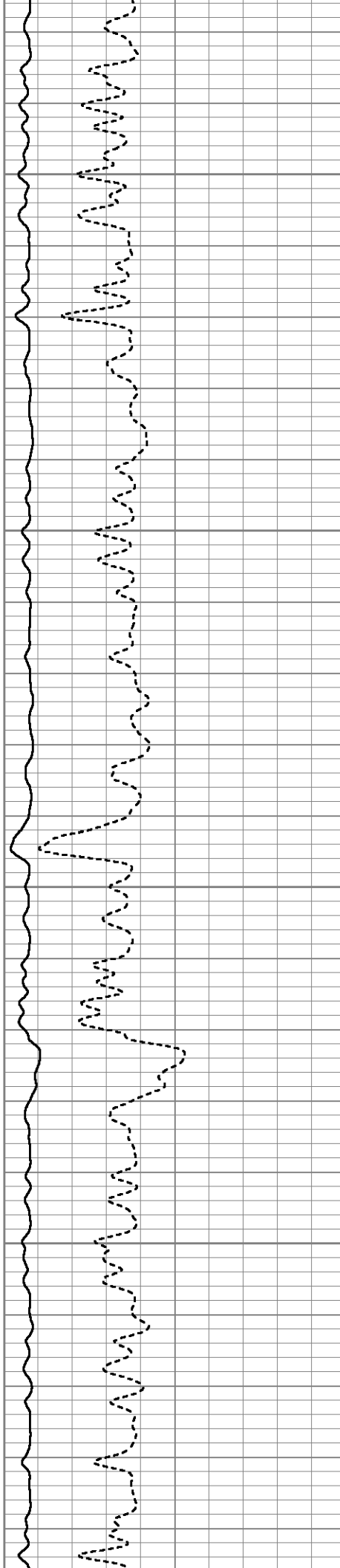


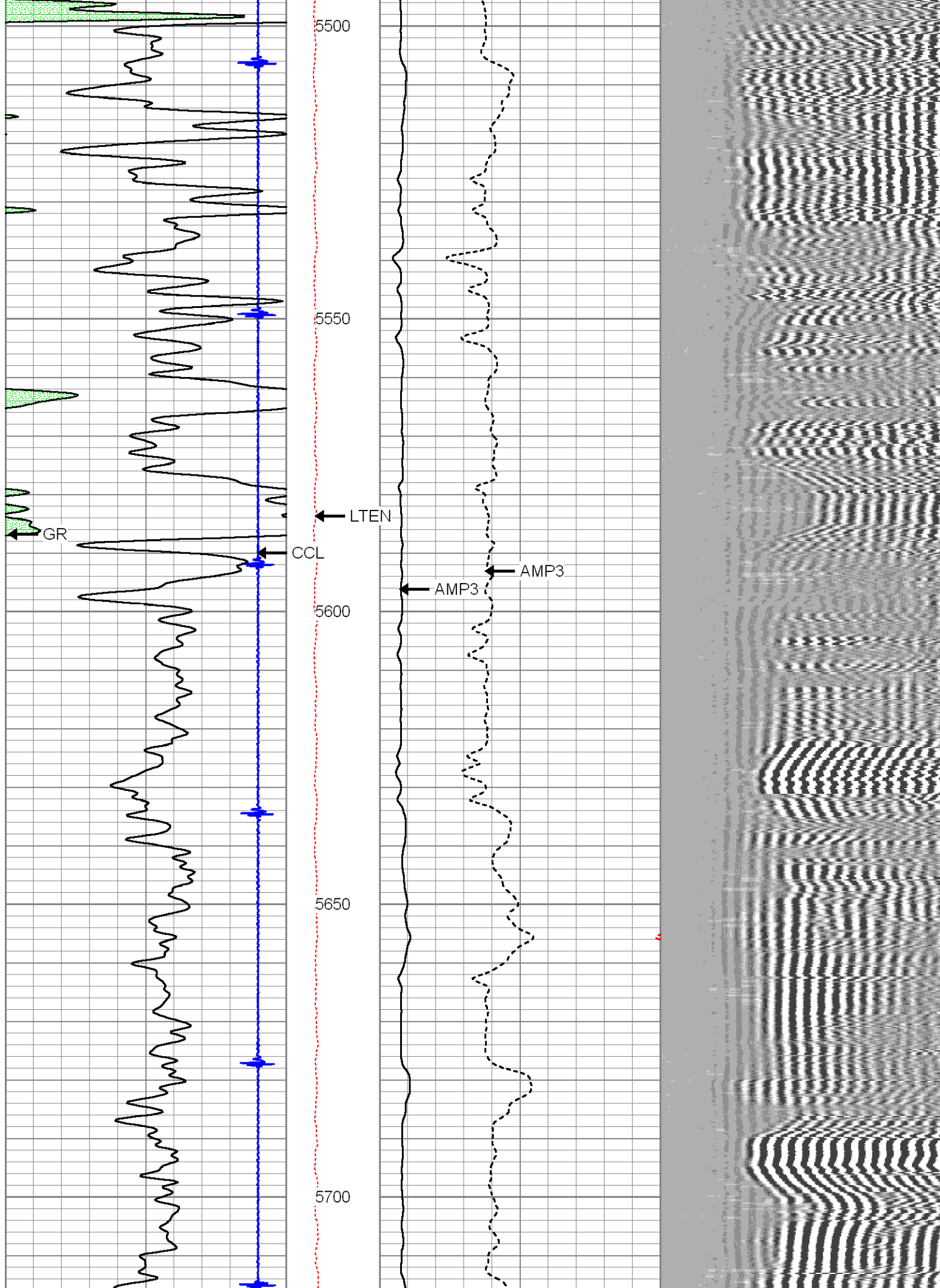
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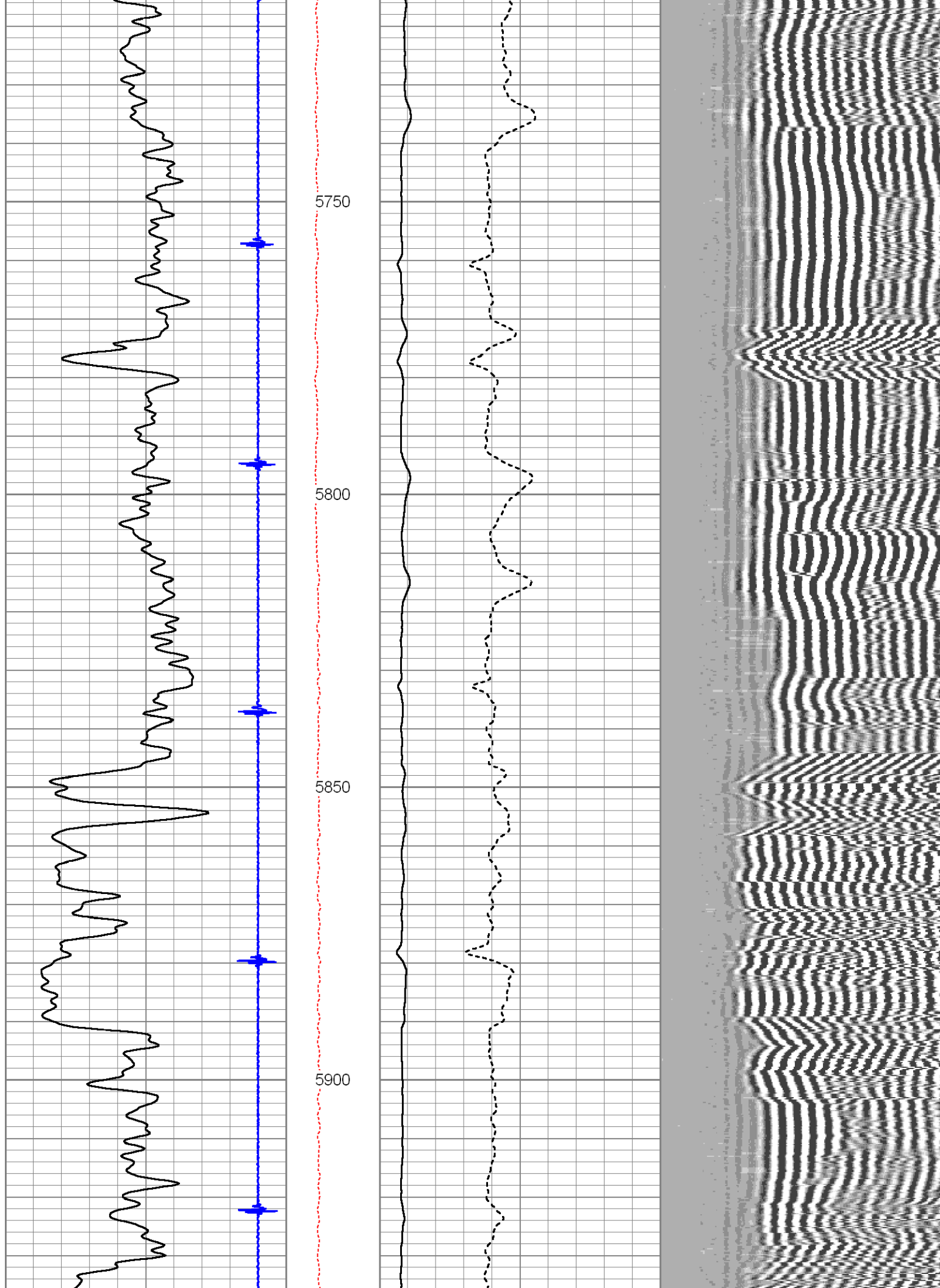
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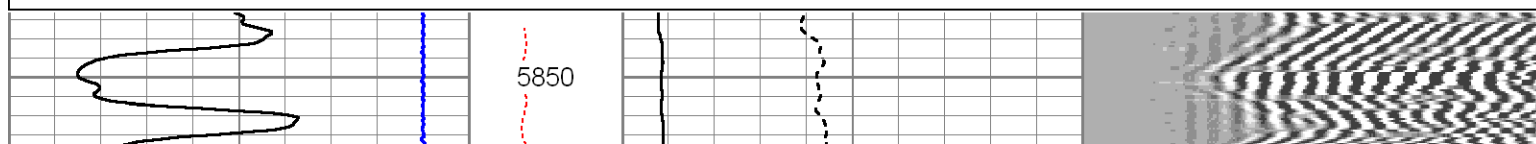
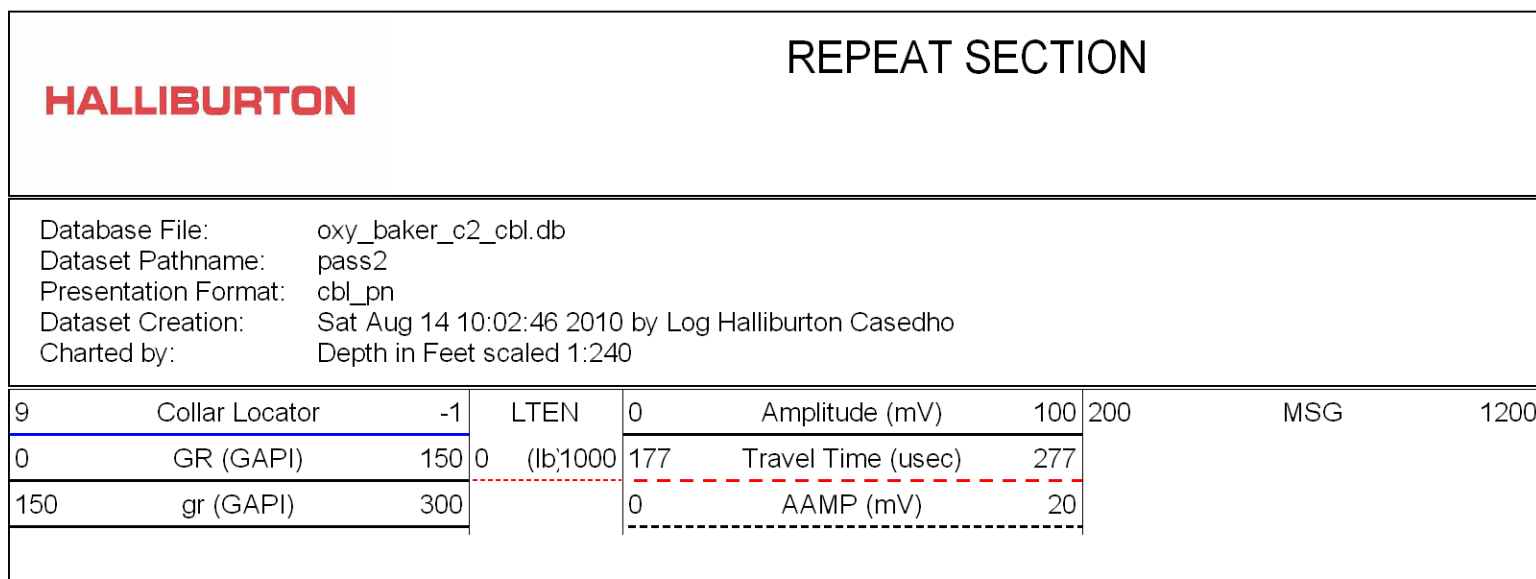
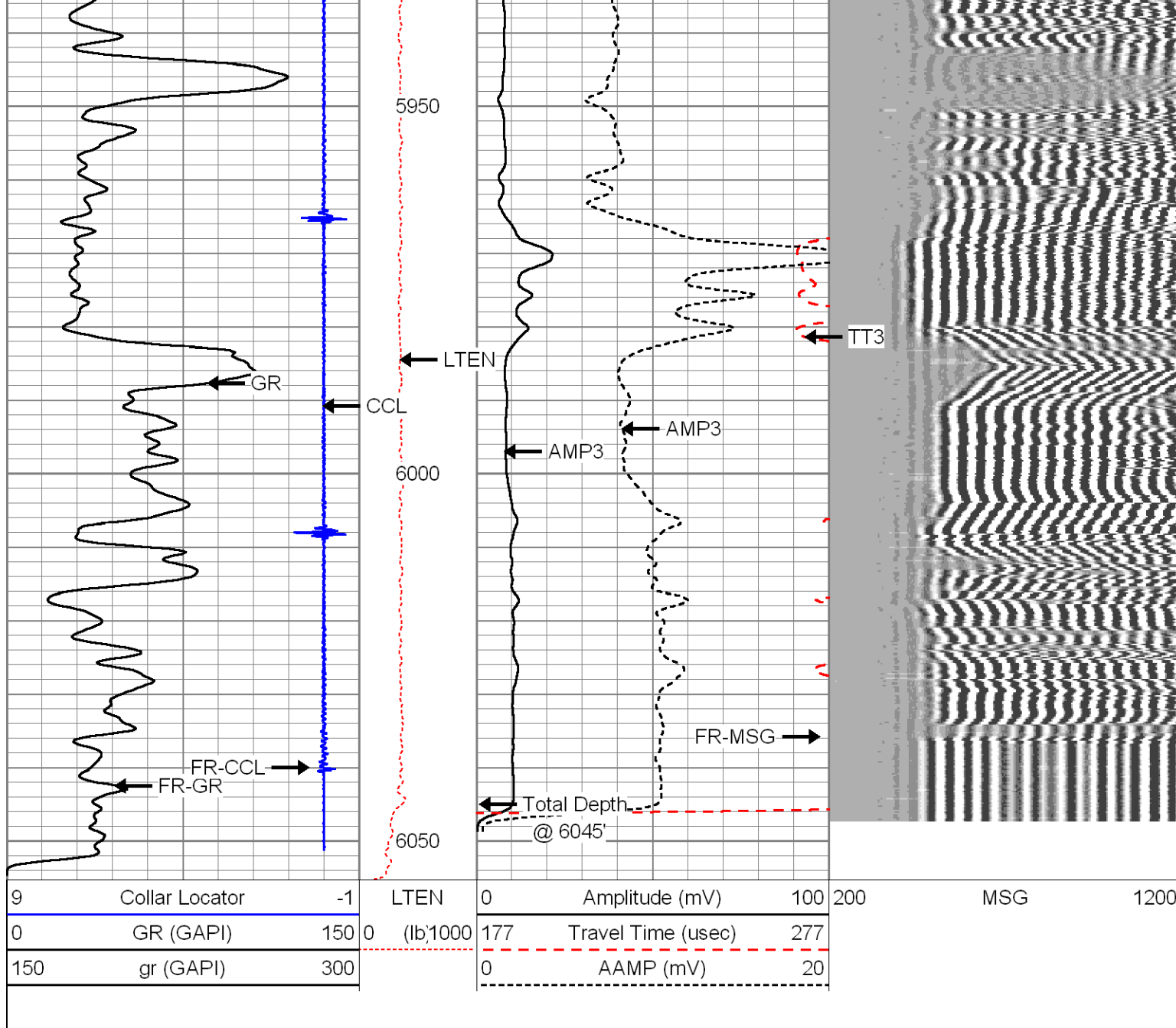
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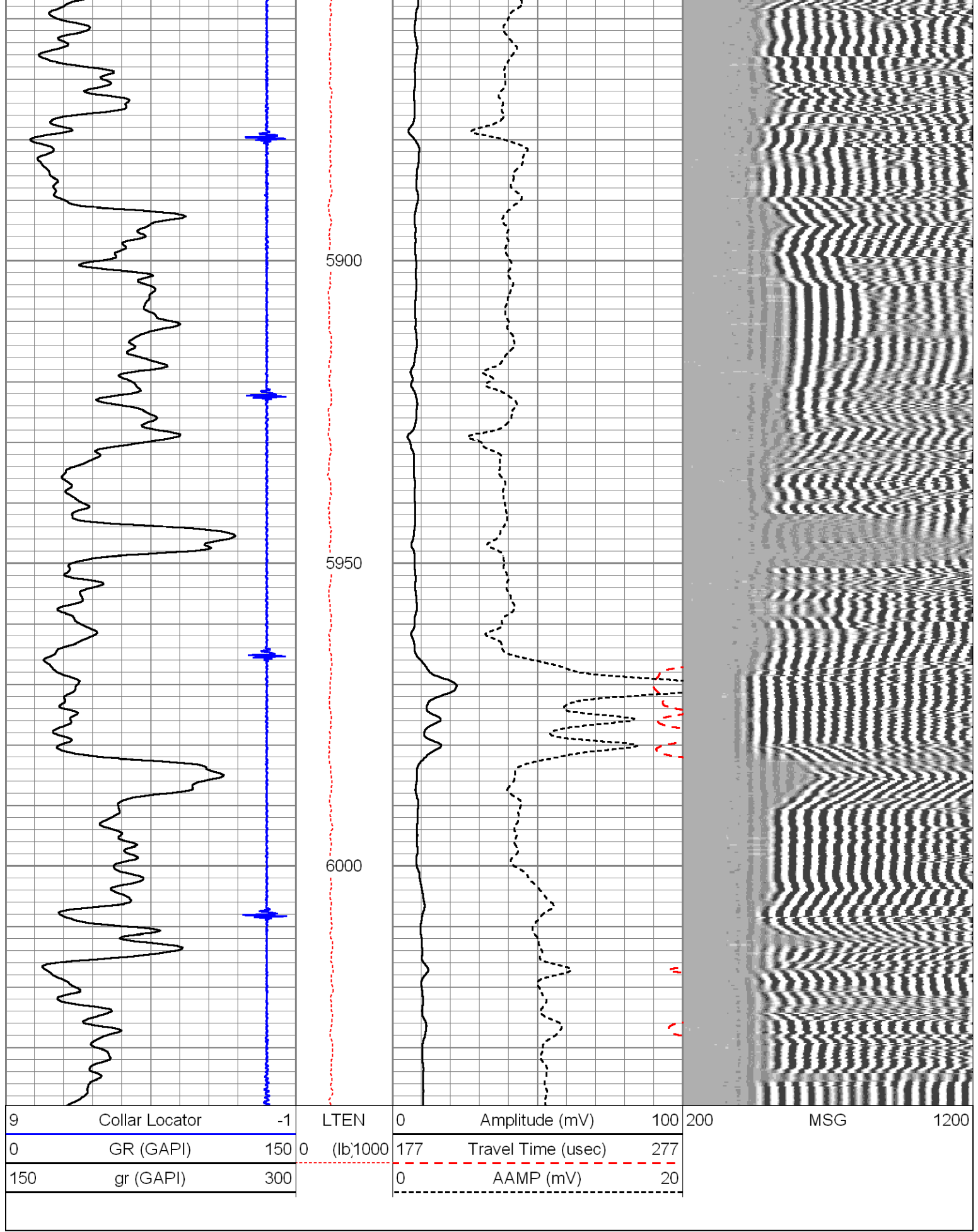
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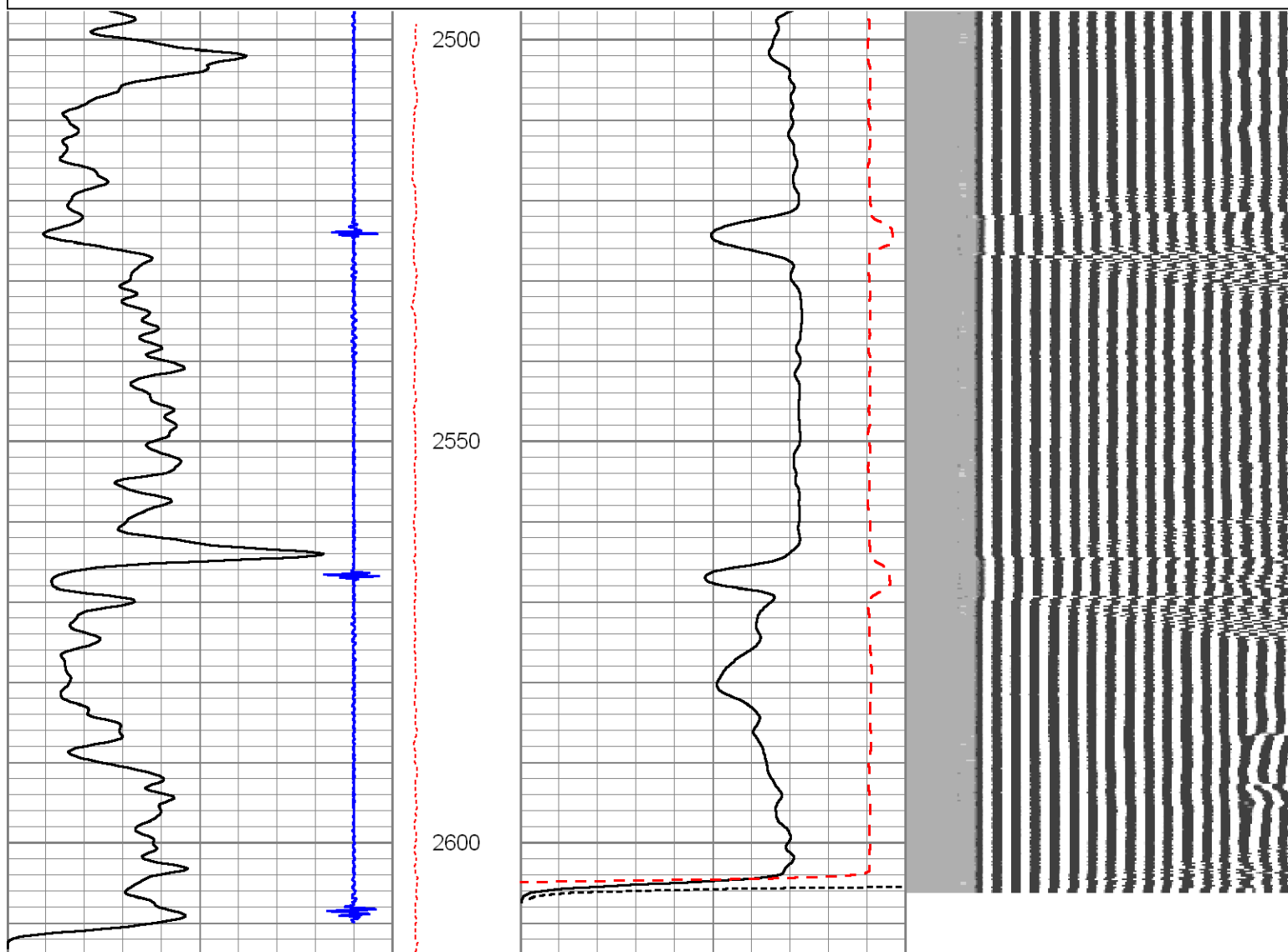




FREE PIPE SECTION

Database File: oxy_baker_c2_cbl.db
 Dataset Pathname: pass1
 Presentation Format: cbl_pn
 Dataset Creation: Sat Aug 14 09:44:54 2010 by Log Halliburton Casedho
 Charted by: Depth in Feet scaled 1:240

9	Collar Locator	-1	LTEN	0	Amplitude (mV)	100	200	MSG	1200
0	GR (GAPI)	150	0 (lb/1000)	177	Travel Time (usec)	277			
150	gr (GAPI)	300		0	AAMP (mV)	20			



9	Collar Locator	-1	LTEN	0	Amplitude (mV)	100	200	MSG	1200
0	GR (GAPI)	150	0 (lb/1000)	177	Travel Time (usec)	277			
150	gr (GAPI)	300		0	AAMP (mV)	20			

Calibration Report

Database File: oxy_baker_c2_cbl.db
 Dataset Pathname: pass3
 Dataset Creation: Sat Aug 14 10:08:02 2010 by Log Halliburton Casedho

Gamma Ray Calibration Report

Type / Serial: probe275dig / 070633

SHOP CALIBRATION

Sat Aug 14 09:27:13 2010

	Counts/Sec.	Gain	Offset	Jig	Units
Background	52.0				cps
Calibrator	375.7				cps
		0.8310			GAPI/cps

PRIMARY VERIFICATION

Sat Aug 14 09:29:42 2010

Background	42.1				cps
Calibrator	311.4				cps
Difference				269.3	GAPI

BEFORE SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Cement Bond Log Calibration Report

Serial Number:	060714				
Tool Model:	Probe275Digital				
Performed:	Sat Aug 14 09:44:23 2010				
Depth:	2547.26	ft			
Casing Diameter:	5.5	in			
	3' Spacing		5' Spacing		
Signal Zero:	0		0		mV
Calibrated Amplitude:	71.921		71.921		mV
Reading at Signal Zero:	-0.00214844		-0.00236816		V
Reading in Free Pipe:	0.431323		0.45835		V
Gain:	165.919		156.106		
Offset:	0.356466		0.369686		

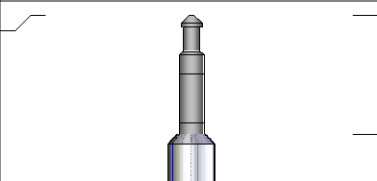
Log Variables

Database:D:\warrior_data\oxy_baker_c2_cbl.db

Dataset: field/well/run1/pass3

Top - Bottom

PPT usec	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF
0	72	0	0.8	5.5	0	6045	142
BITSIZE in	7.875						

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
STNDCH	14.41		STND_CH 1.4375 IN CABLE HEAD	0.92	1.44	1.00

WVF3	9.00		CBL-Probe275Digital (060714) Digital 3' 5' CBL Move voltage to +/- 150 for cal mode	8.75	2.75	92.00
WVF5	8.00					
GR	4.75					
CCL	3.92					
GR	2.54		GR-Probe275dig (070633) Probe Digital Gamma CCL	4.75	2.75	57.00
LLMTEN	0.00					
Dataset: oxy_baker_c2_cbl.db: field/well/run1/pass3 Total Length: 14.41 ft Total Weight: 150.00 lb O.D. 2.75 in						

Well	KINGLER		County	MORTON	State	KANSAS
HALLIBURTON		CEMENT BOND LOG SCALE 1:240				