

**BEFORE THE OIL CONSERVATION
DIVISION
EXAMINER HEARING JANUARY 21, 2016
CASE No. 15431**



BREITBURN
ENERGY PARTNERS LP



RADIAL CEMENT BOND
GAMMA-RAY/CCL
LOG

Company BREITBURN OPERATING L.P.
Well 1930 SWD 12-4-G
Field BRAVO DOME
County HARDING State NM

Location: 2265' FNL \$ 1483'FEL
API #: 30-021-20692
Other Services N/A

Company BREITBURN OPERATING L.P.
Well 1930 SWD 12-4-G
Field BRAVO DOME
County HARDING State NM
Permanent Datum G.L. 4556'
Log Measured From K.D. 10 FT ABOVE PERM DATUM
Drilling Measured From K.B. 4565'
Elevation 4556'

Date	10-27-15
Run Number	ONE
Depth Driller	2335'
Depth Logger	2275'
Bottom Logged Interval	2264'
Top Log Interval	100'
Open Hole Size	NA
Type Fluid	WATER
Density / Viscosity	NA
Max Recorded Temp.	NA
Estimated Cement Top	NA
Time Well Ready	ROA
Time Logger on Bottom	10:30 AM
Equipment Number	TRUCK #49
Location	LEVELAND TX.
Recorded By	R.D. MOTHERAL
Witnessed By	MR. POLLISTER
Borehole Record	
Run Number	Bit From To Size Weight From To
Tubing Record	
Casing Record	Size Wellbore Top Bottom
Surface String	6.525 36" 0' 700'
Prod. String	5.5 15.5" 0' 2335'
Production String	
Liner	

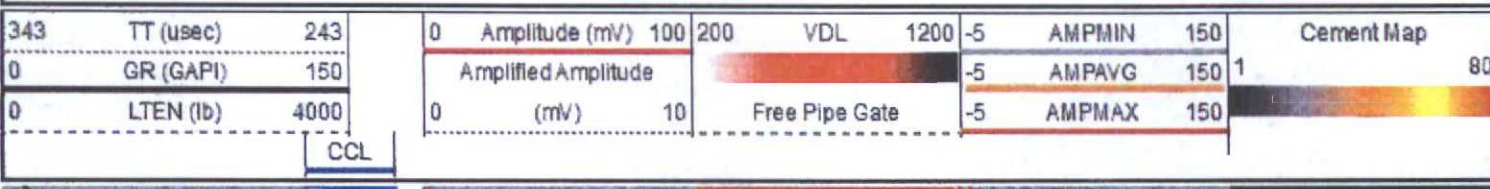
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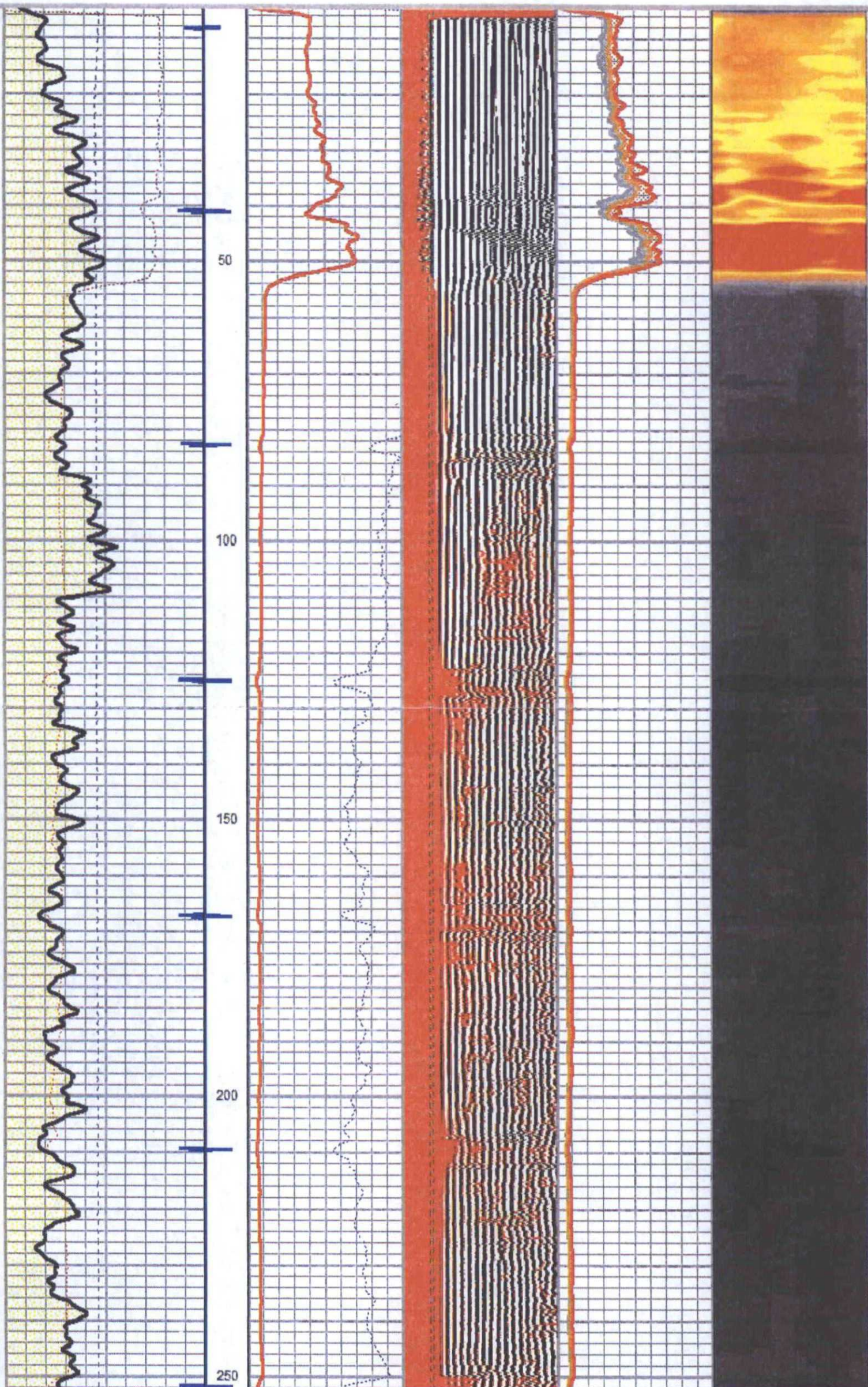
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

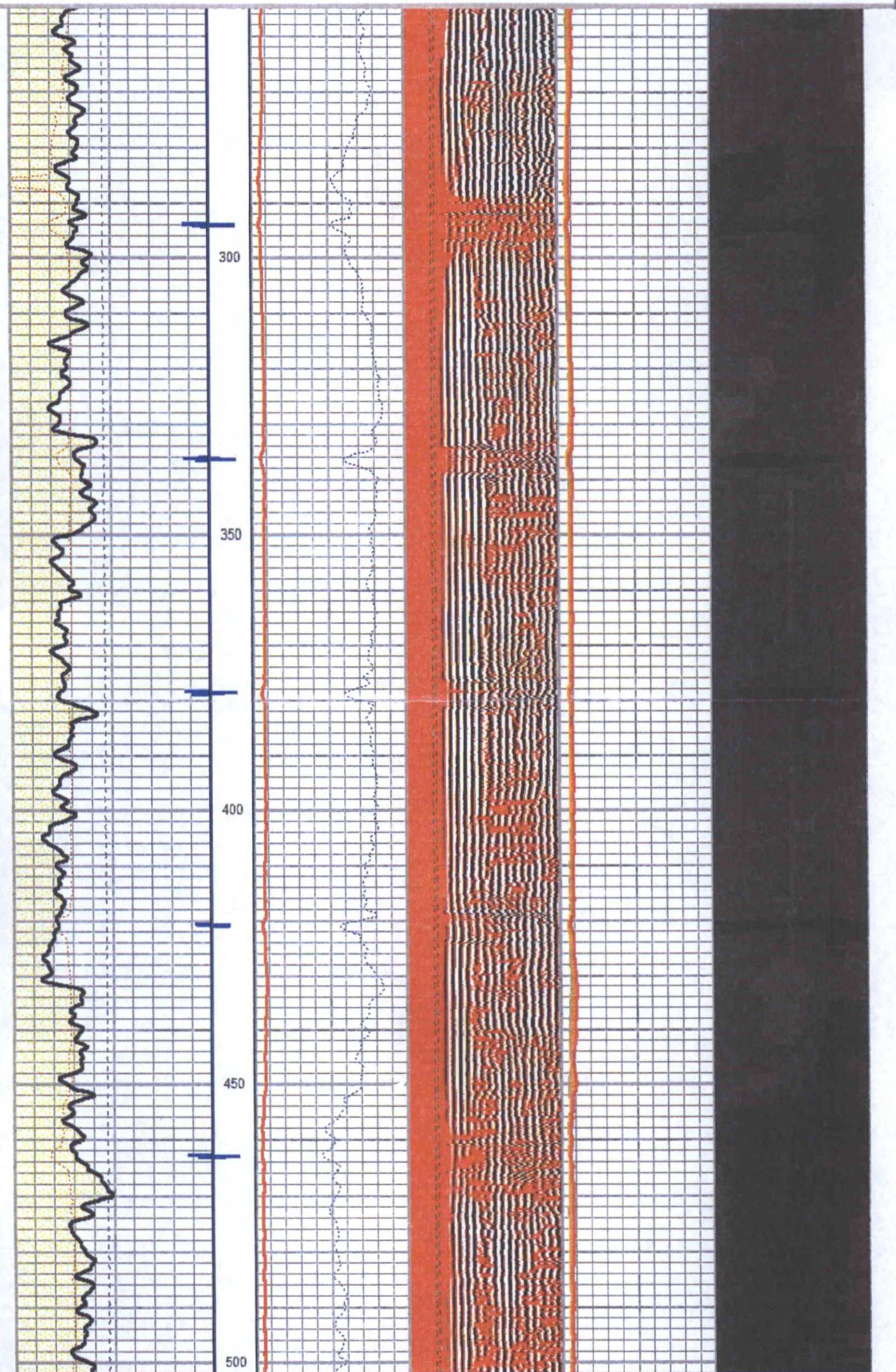
Comments

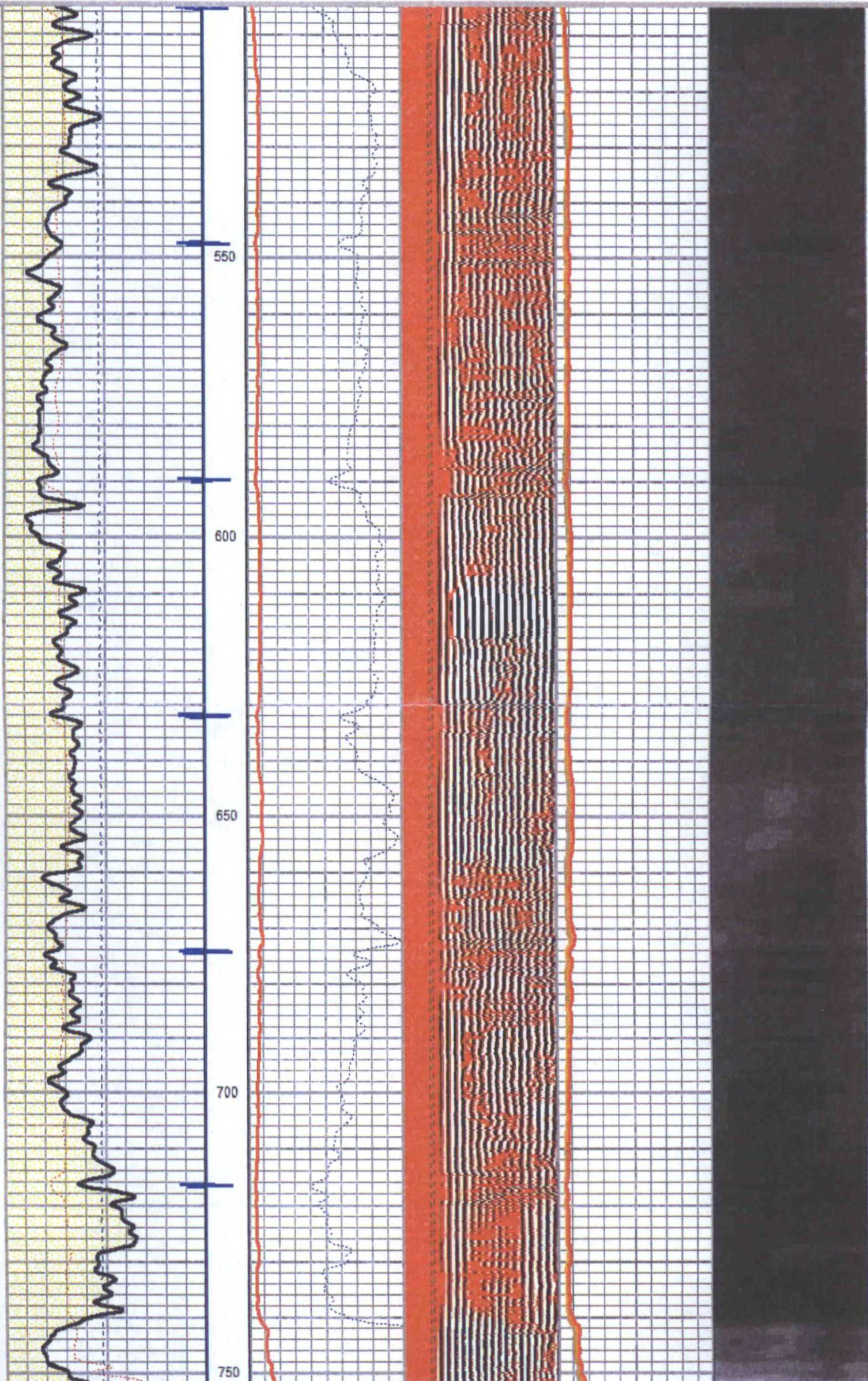
LOG CORRELATED TO WEATERFORD COMPACT
PHOTO DENSITY LOG 10-15-15

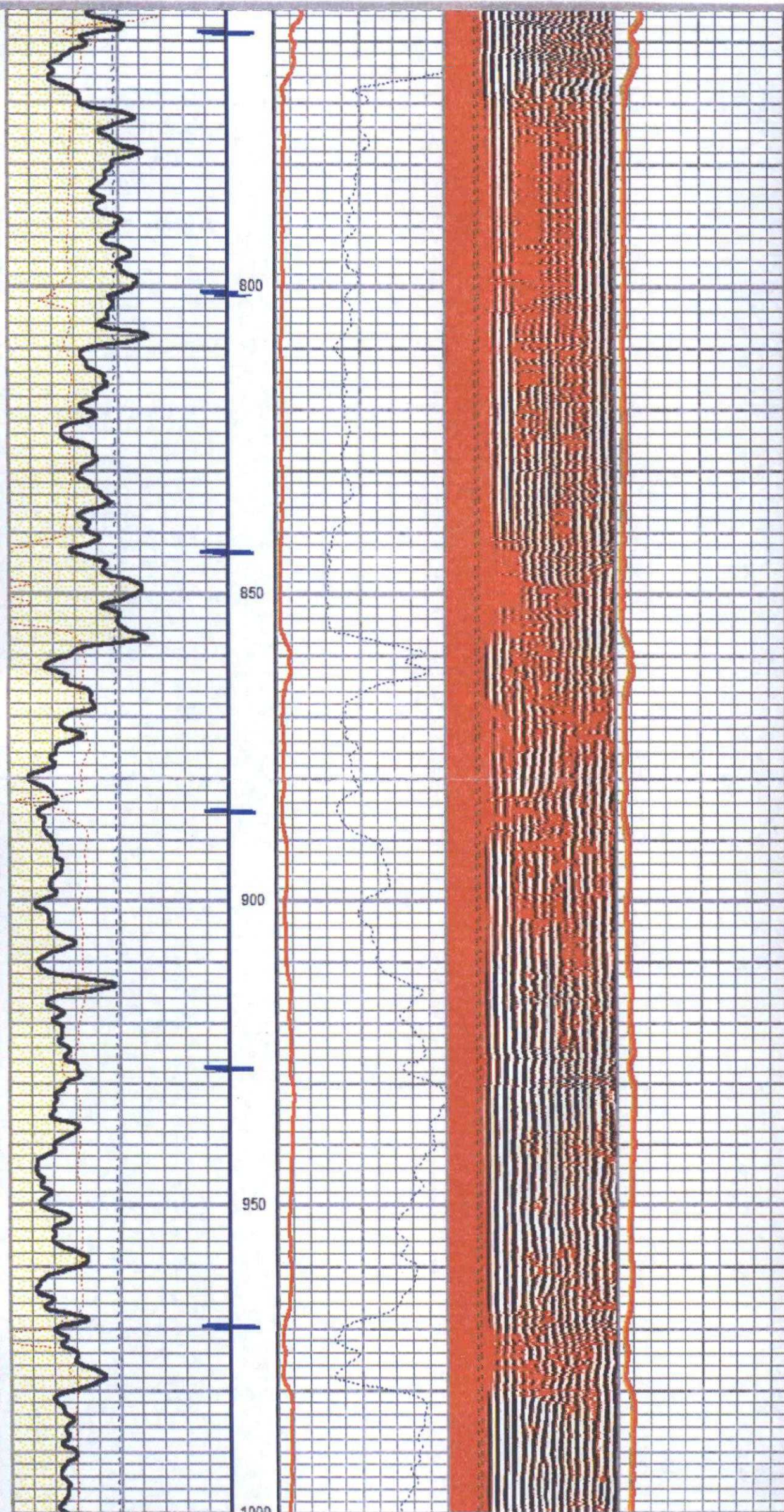
Database File	bdu-swd-12-4-g.db	BEFORE THE OIL CONVERSION DIVISION Santa Fe, New Mexico Exhibit No. 11 Submitted by: BREITBURN Hearing Date: January 21, 2016
Dataset Pathname	BRAVO_DOME/124G/run1/pass6.1	
Presentation Format	rrcbl_mx	
Dataset Creation	Wed Oct 28 15:45:48 2015	
Charted by	Depth in Feet scaled 1:240	

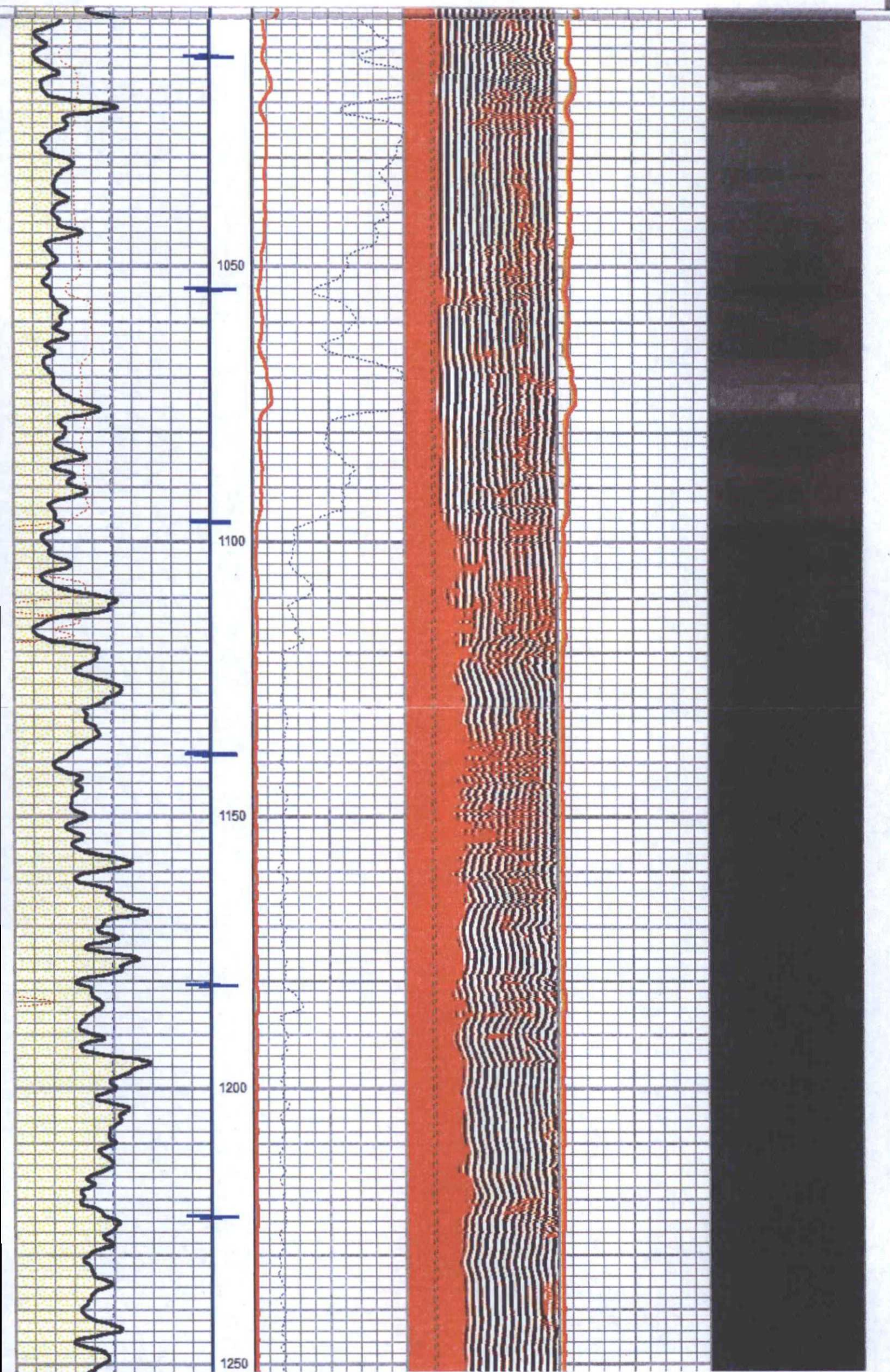


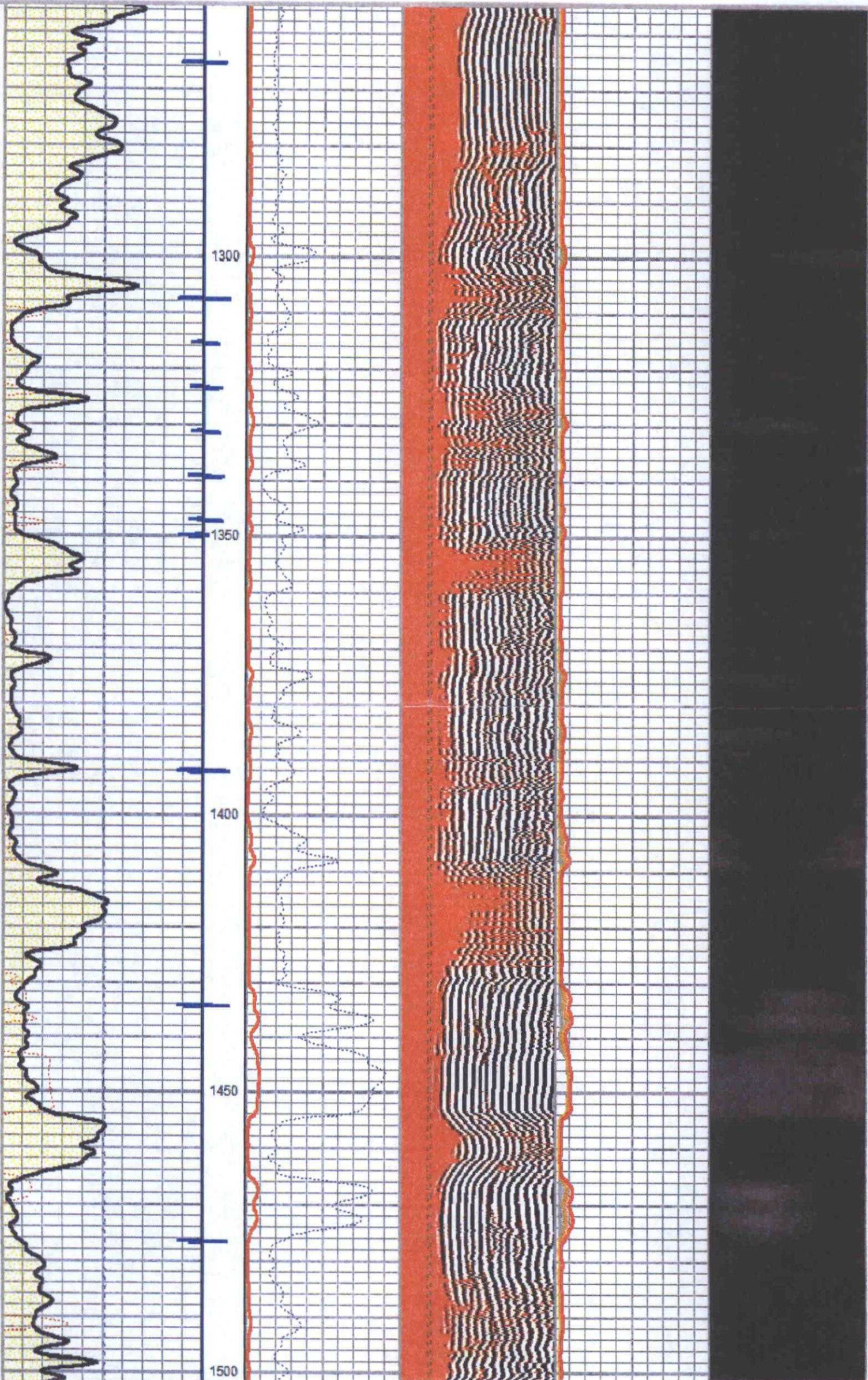


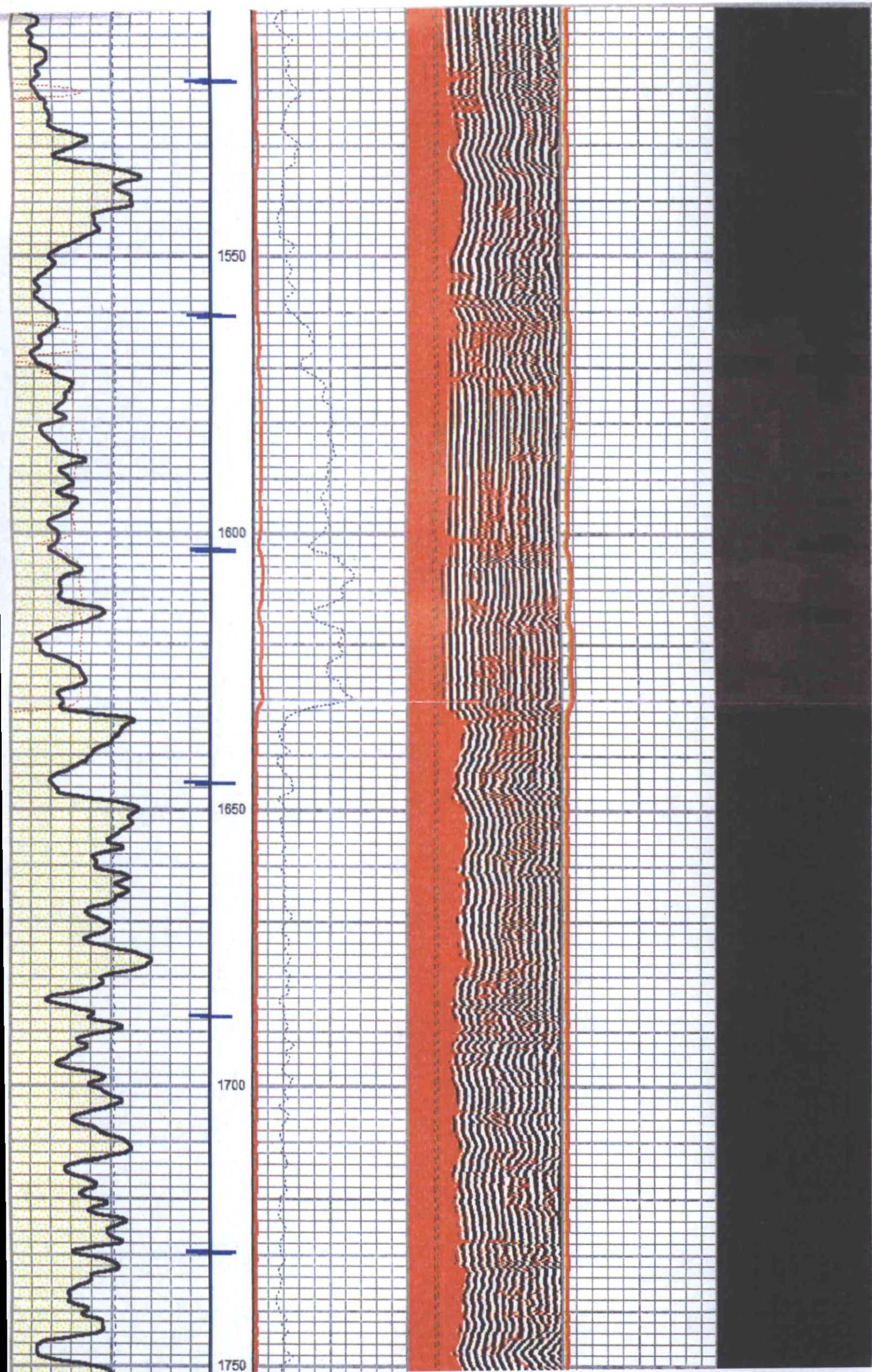


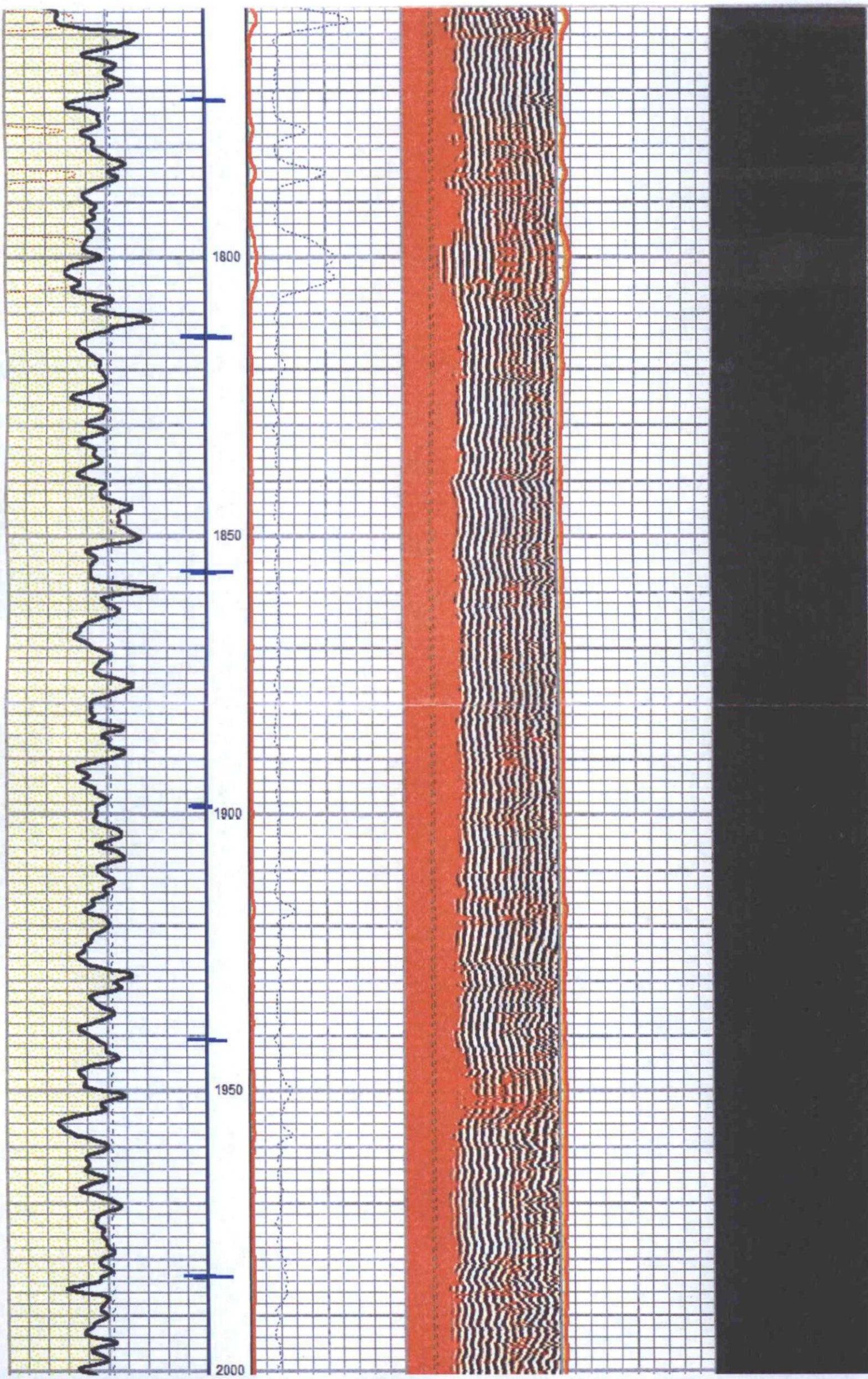


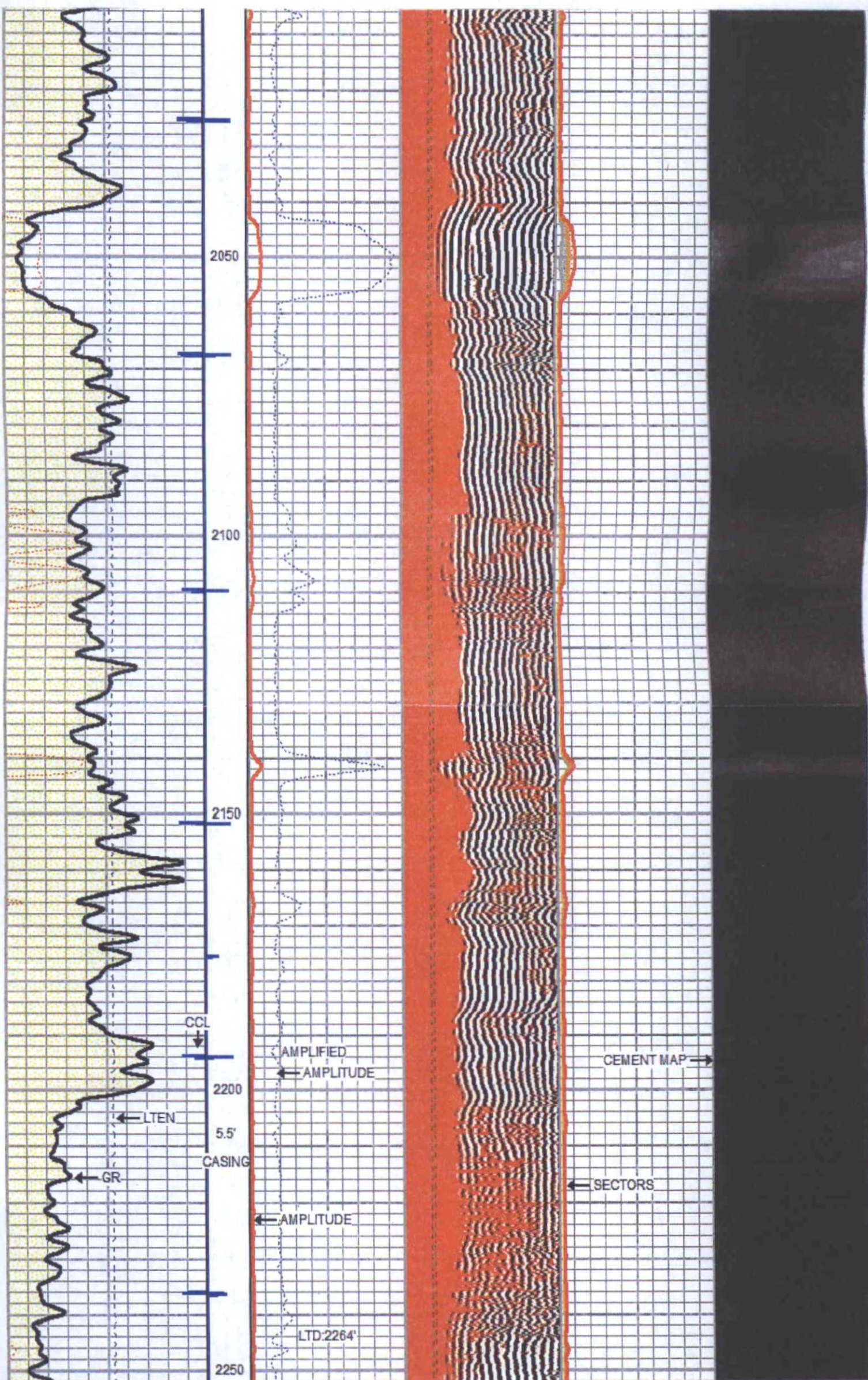


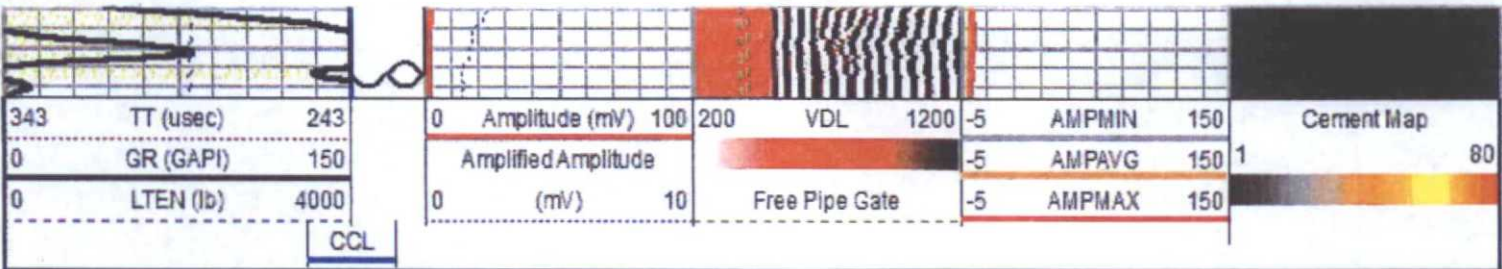






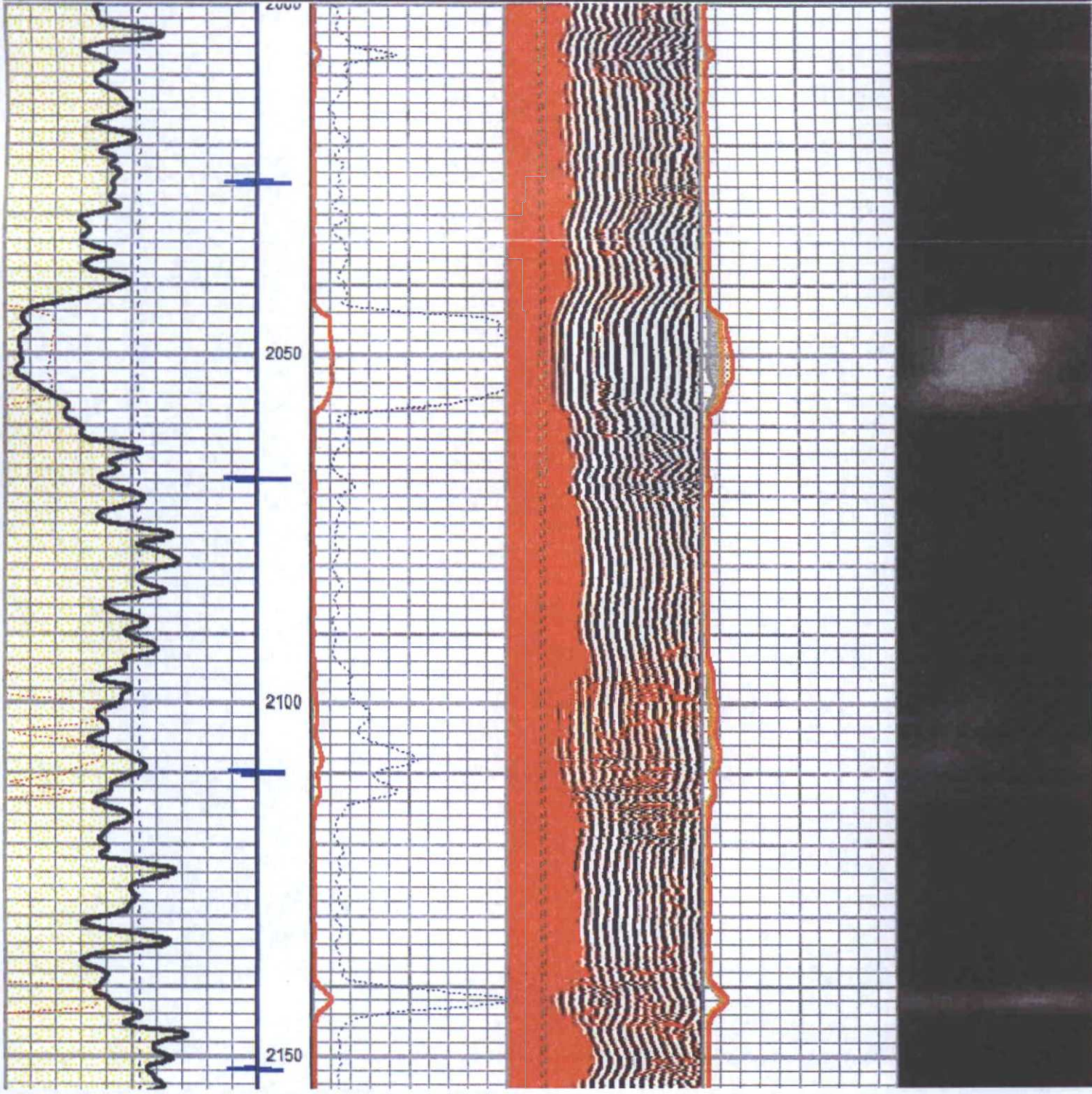
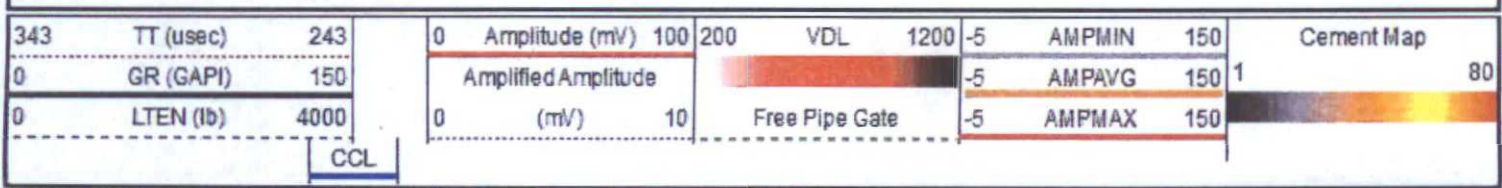


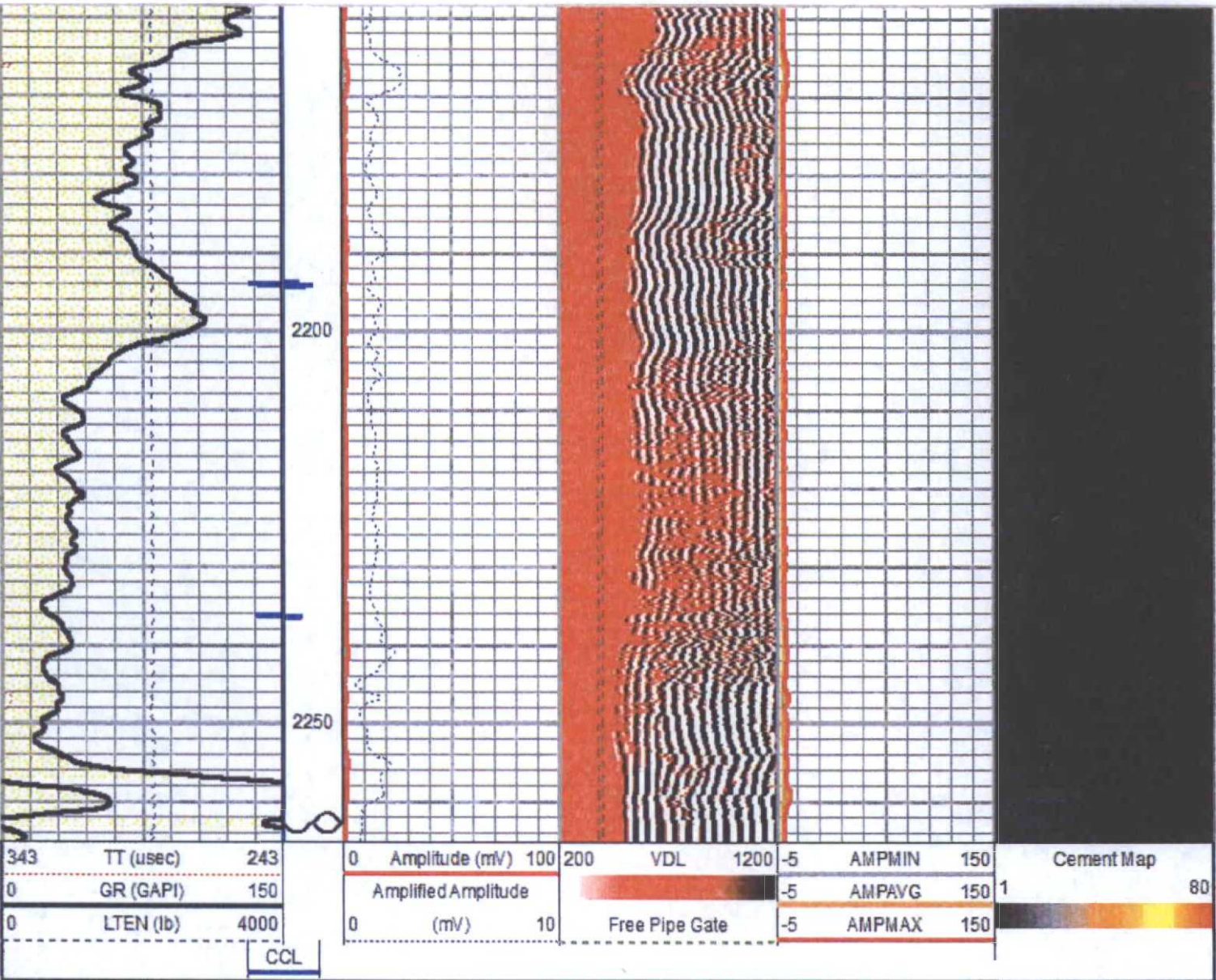




REPEAT SECTION

Database File: bdu-swd-12-4-g.db
Dataset Pathname: BRAVO_DOME/124G/run1/pass5
Presentation Format: rrcbl_mx
Dataset Creation: Tue Oct 27 23:58:16 2015
Charted by: Depth in Feet scaled 1:240





Log Variables									
DatabaseF:\8 data\bdu-swd-12-4-g.db									
Dataset BRAVO_DOME/124G/run1/pass6									
Top - Bottom									
CMTTCOR	CSTKCOR	SZCOR	CASED?	NPORSEL	CMNTTHCK	CASETHCK	PPT usec	CASEWGHT	MAXAMPL
On	On	On	Yes	Limestone	in 1.19	in 0.275	0	lb/ft 15.5	mV 72
MINAMPL	MINATTN	CASEOD	PERFS	TDEPTH	BOTTEMP	BOREID			
mV 1	db/ft 0.8	in 5.5	0	ft 0	degF 100	in 7.875			

Calibration Report		
Database File	bdu-swd-12-4-g.db	
Dataset Pathname	BRAVO_DOME/124G/run1/pass6	
Dataset Creation	Wed Oct 28 00:07:04 2015	
Gamma Ray Calibration Report		
Serial Number:	FW1212-38	
Tool Model:	GC_C3	
Performed:	Mon Jun 23 16:57:03 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7000	GAPI/cps
Segmented Cement Bond Log Calibration Report		
Serial Number:	100919c	
Tool Model:	RBTC3	

Top - Bottom									
CMTTCOR	CSTKCOR	SZCOR	CASED?	NPORSEL	CMNTTHCK	CASETHCK	PPT	CASEWGHT	MAXAMPL
On	On	On	Yes	Limestone	in 1.19	in 0.275	usec 0	lb/ft 15.5	mV 72
MINAMPL	MINATTN	CASEOD	PERFS	TDEPTH	BOTTEMP	BOREID			
mV 1	db/ft 0.8	in 5.5	0	ft 0	degF 100	in 7.875			

Calibration Report	
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Dataset Creation	Wed Oct 28 00:07:04 2015

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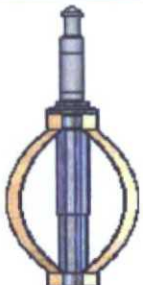
Segmented Cement Bond Log Calibration Report			
Serial Number:	100919c		
Tool Model:	RBTC3		
Calibration Casing Diameter:	5.500	in	
Calibration Depth:	66.083	ft	

Master Calibration, performed Tue Oct 27 12:42:58 2015:							
	Raw (v)		Calibrated (nv)		Results		
	Zero	Cal	Zero	Cal	Gain	Offset	
3'	0.004	0.681	1.000	71.921	104.825	0.552	
CAL	0.001	0.960					
5'	0.005	0.585	1.000	71.921	122.465	0.332	
SUM							
S1	-0.000	0.640	0.000	100.000	156.330	0.021	
S2	0.001	0.659	0.000	100.000	151.977	-0.169	
S3	0.001	0.677	0.000	100.000	147.947	-0.182	
S4	0.002	0.706	0.000	100.000	142.032	-0.290	
S5	0.002	0.728	0.000	100.000	137.808	-0.288	
S6	0.002	0.724	0.000	100.000	138.432	-0.291	
S7	0.002	0.683	0.000	100.000	146.889	-0.312	
S8	0.002	0.657	0.000	100.000	152.662	-0.371	

Internal Reference Calibration, performed Tue Oct 27 12:07:51 2015:							
	Raw (v)		Calibrated (v)		Results		
	Zero	Cal	Zero	Cal	Gain	Offset	
CAL	0.000	0.000	0.001	0.960	1.000	0.000	

Air Zero Calibration, performed Tue Oct 27 12:07:02 2015:							
	Raw (v)		Calibrated (v)		Results		
	Zero		Zero			Offset	
3'	0.000		0.000			0.000	
5'	0.000		0.000			0.000	
SUM							

S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			1.4375CHD Titan Cable Head 1 7/16	1.00	1.44	10.00
			Probe Probe 2 3/4 Centralizer	2.75	2.75	20.00
			RBT-RBTC3 (100919c)	8.92	0.00	
WVFS8	11.58					
WVFS7	11.58					
WVFS6	11.58					
WVFS5	11.58					
WVFS4	11.58					
WVFS3	11.58					
WVFS2	11.58					
WVFS1	11.58					
WVFCAL	11.58					
WVF3FT	11.58					
WVF5FT	10.58					
			Probe Probe 2 3/4 Centralizer	2.75	2.75	20.00
CCL	3.67					
GR	2.42		GC_C3 (FW1212-38)	4.58	2.75	50.00

Dataset:	bdu-swd-12-4-g.db: BRAVO_DOME/124G/run1/pass6
Total length:	20.00 ft
Total weight:	100.00 lb
O.D.:	2.75 in

Company BREITBURN OPERATING L.P.

Well 1930 SWD 12-4-G

Field BRAVO DOME

County HARDING

State NM



RADIAL CEMENT BOND

GAMMA-RAY/CCL

LOG

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