SUPERIOR
Black Lick, Pa.
Mercer, Pa.
Wooster, Oh.
Cleveland, Ok.
Trinidad, Co.

COMPENSATED DENSITY NEUTRON LOG

Company XTO Energy Inc.
Well Hill Ranch 29-13
Field Purgatoire River
County Las Animas State Colorado

Location: API # : 05 071 09202 00
1207' FSL & 927' FWL
SEC 29 TWP 34S RGE 67W

Other Services
DIL

Permanent Datum Ground Level Elevation 8188'
Log Measured From Ground Level
Drilling Measured From Ground Level

Elevation
K.B. -----
D.F. -----
G.L. 8188'

Company XTO Energy Inc.
Well Hill Ranch 29-13
Field Purgatoire River
County Las Animas
State Colorado

Date	3-30-07
Run Number	Two
Depth Driller	2740'
Depth Logger	2725'
Bottom Logged Interval	2723'
Top Log Interval	Surface Casing
Casing Driller	8 5/8" @ 491'
Casing Logger	490'
Bit Size	7 7/8"
Type Fluid in Hole	Water
Density / Viscosity	///
pH / Fluid Loss	///
Source of Sample	///
Rm @ Meas. Temp	///
Rmf @ Meas. Temp	///
Rmc @ Meas. Temp	///
Source of Rmf / Rmc	///
Rm @ BHT	///
Time Circulation Stopped	4:15 P.M.
Time Logger on Bottom	7:30 P.M.
Maximum Recorded Temperature	108 DEG F
Equipment Number	T0697
Location	Trinidad
Recorded By	M. Norton
Witnessed By	Mr. Gary Hawkins

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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

Density Neutron Porosity Presented On Sandstone Matrix.
ABHV Calculated For 5 1/2" Casing
Well Directions:
First Bosque just before Weston, up Little Bingham left just before Hill Ranch,
st Y stay left, next Y stay right to location.

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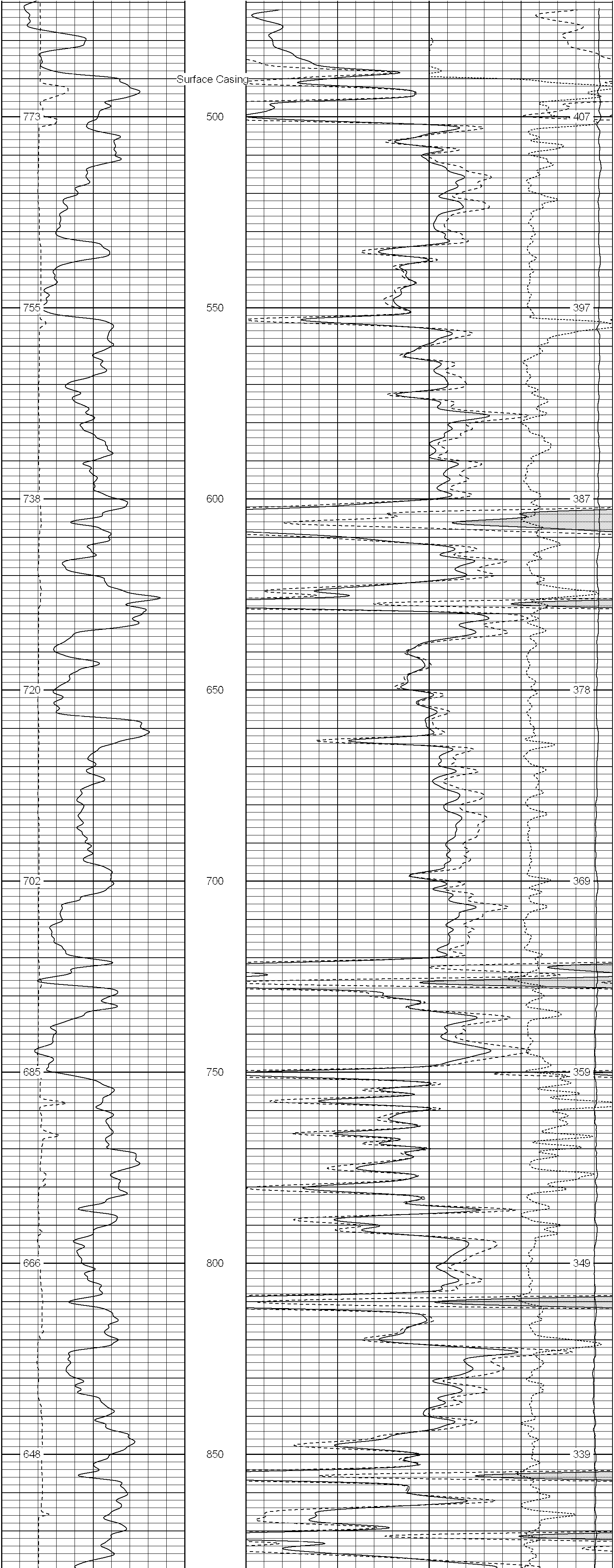
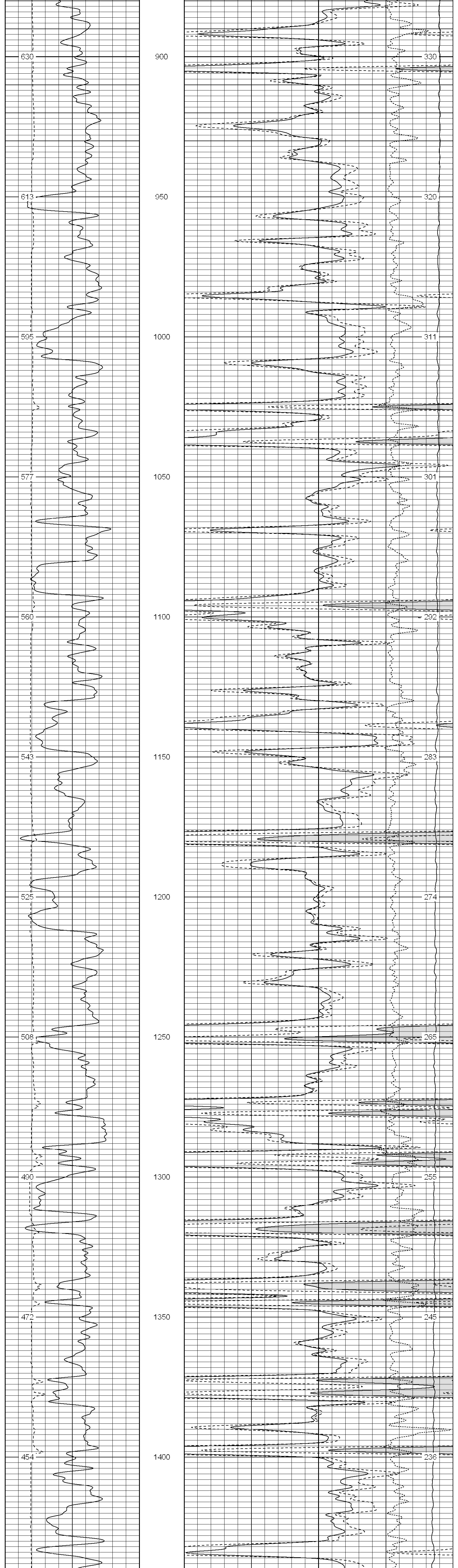
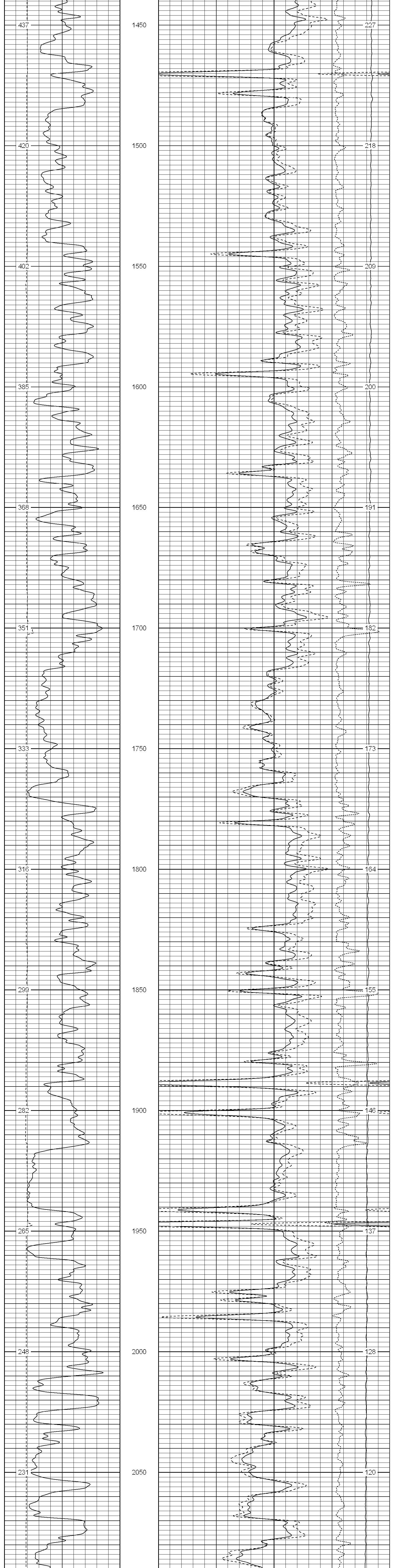
Main Pass

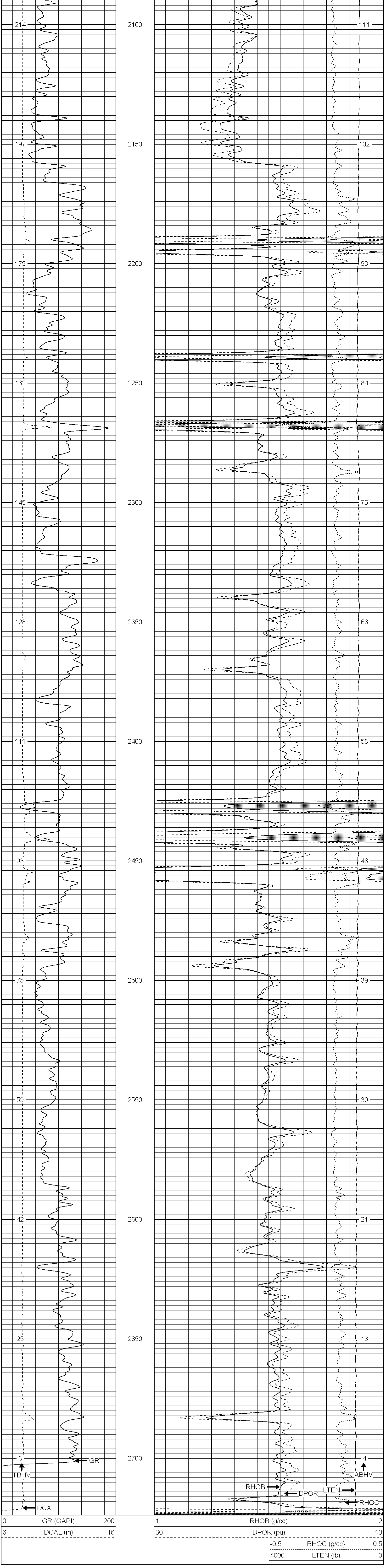
Database File: xtohr2913.db
Dataset Pathname: pass4.1
Presentation Format: cdl
Dataset Creation: Fri Mar 30 21:07:45 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

0 GR (GAPI) 200
6 DCAL (in) 16
1 RHOB (g/cc) 2
30 DPOR (pu) -10
-0.5 RHOC (g/cc) 0.5
4000 LTEN (lb) 0









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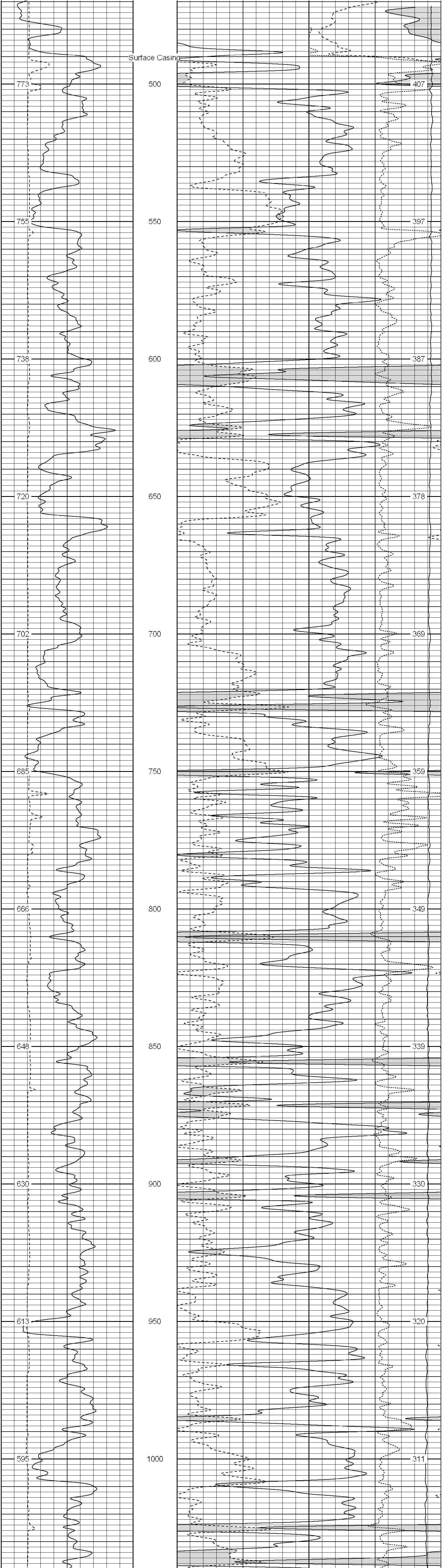
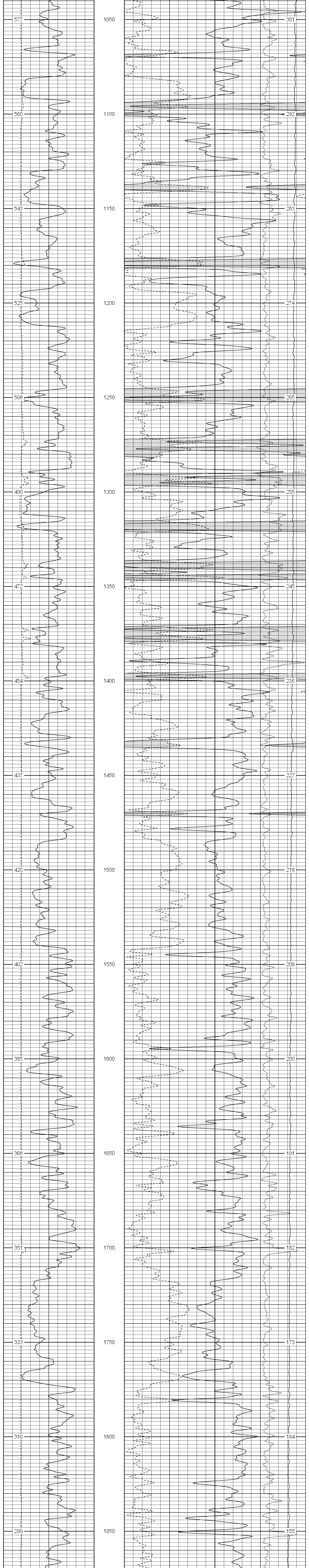
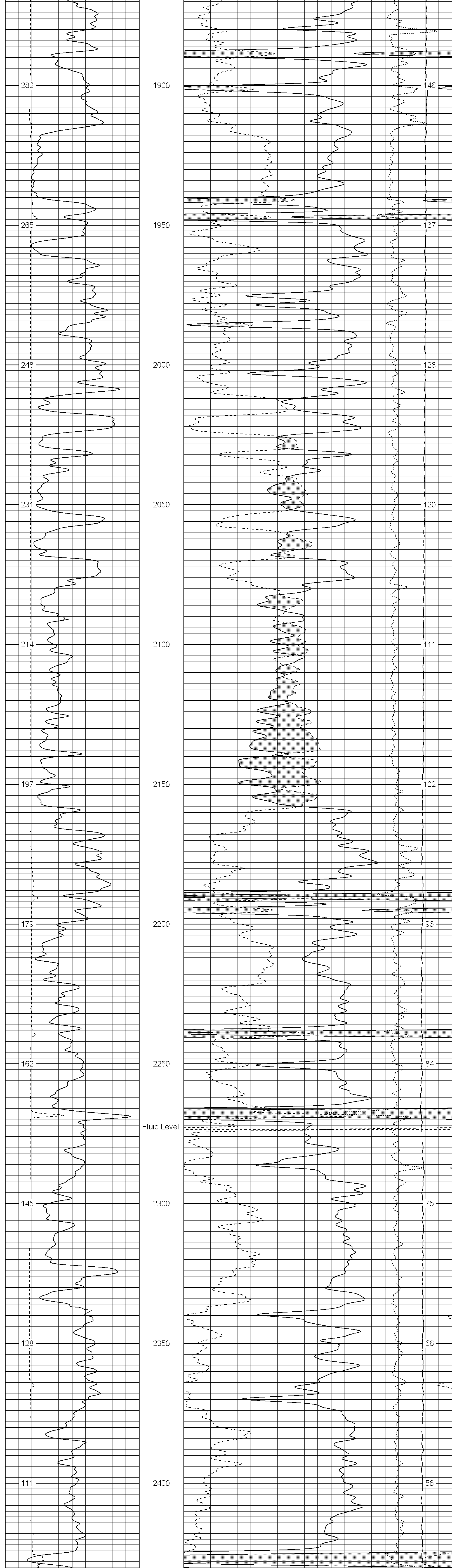
Main Pass

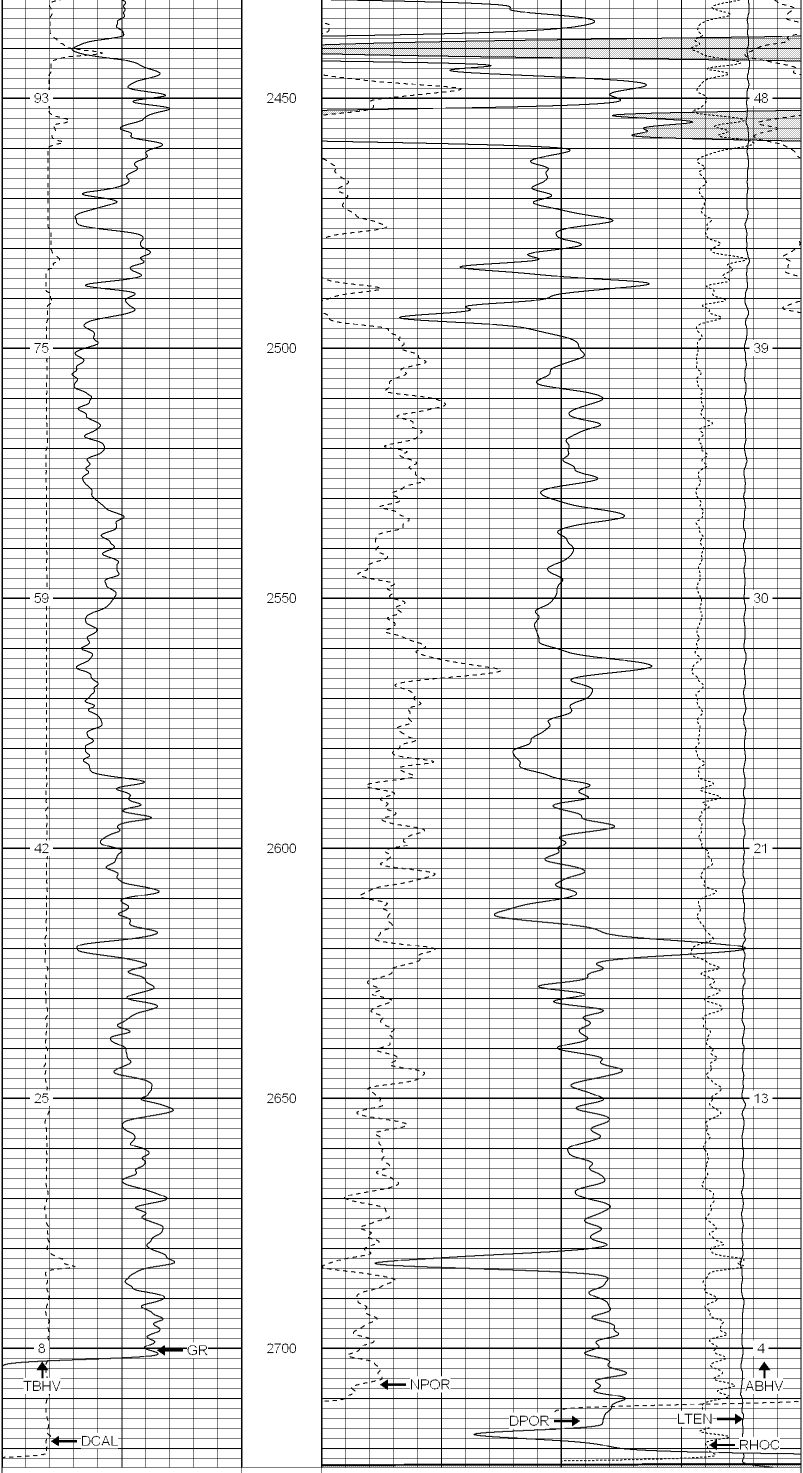
Database File:	xtohr2913.db
Dataset Pathname:	pass4.1
Presentation Format:	cdnl
Dataset Creation:	Fri Mar 30 21:07:45 2007 by Calc Open-Cased 061129
Charted by:	Depth in Feet scaled 1:240

0	GR (GAPI)	200
6	DCAL (in)	16
30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0









0	GR (GAPI)	200
6	DCAL (in)	16

30	NPOR (pu)	-10
30	DPOR (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0

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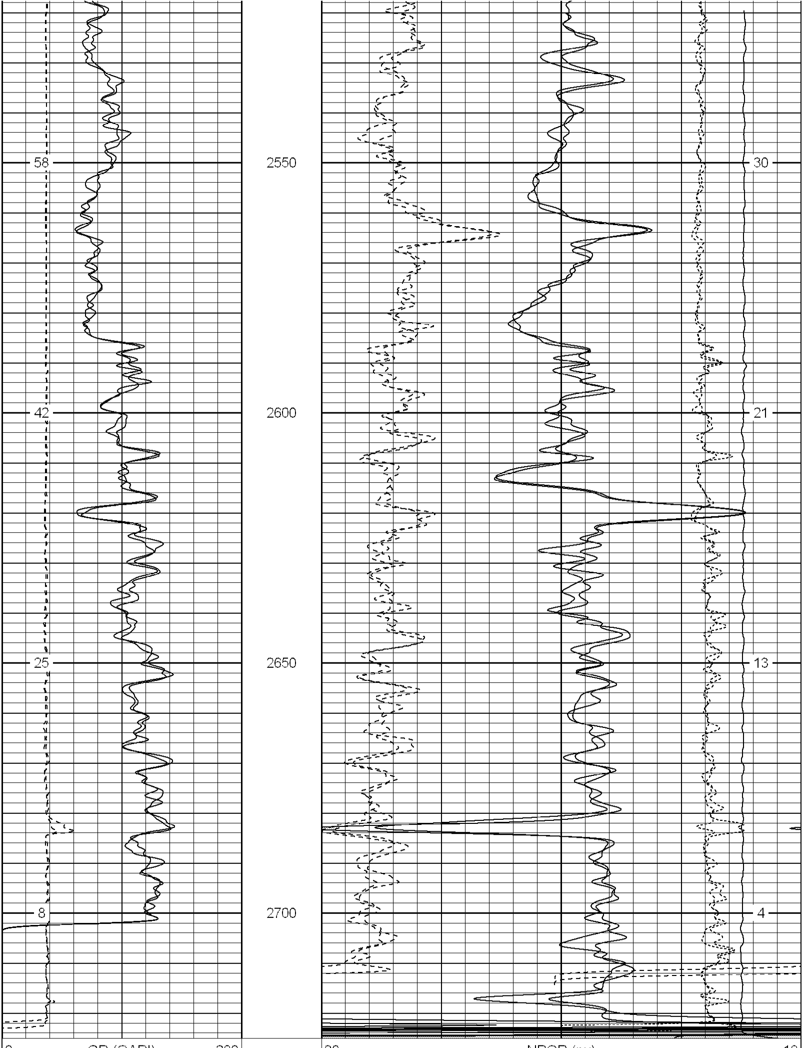
Repeat Section

Database File:	xtohr2913.db
Dataset Pathname:	pass3.1
Presentation Format:	cdnl
Dataset Creation:	Fri Mar 30 21:06:52 2007 by Calc Open-Cased 061129
Charted by:	Depth in Feet scaled 1:240

0	GR (GAPI)	200
6	DCAL (in)	16
6	DCAL-repeat (in)	16
0	GR-repeat (GAPI)	200

30	NPOR (pu)	-10
30	DPOR (pu)	-10
30	NPOR-repeat (pu)	-10
30	DPOR-repeat (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5



0	GR (GAPI)	200
6	DCAL (in)	16
6	DCAL-repeat (in)	16
0	GR-repeat (GAPI)	200

30	NPOR (pu)	-10
30	DPOR (pu)	-10
30	NPOR-repeat (pu)	-10
30	DPOR-repeat (pu)	-10
-0.5	RHOC (g/cc)	0.5
4000	LTEN (lb)	0
-0.5	RHOC-repeat (g/cc)	0.5

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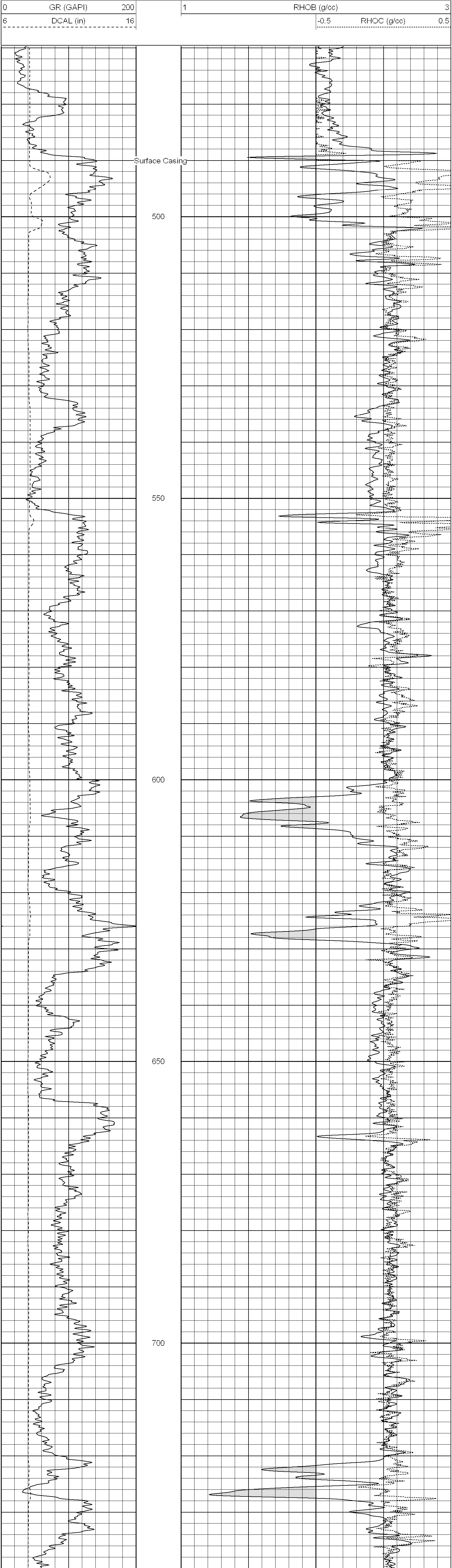
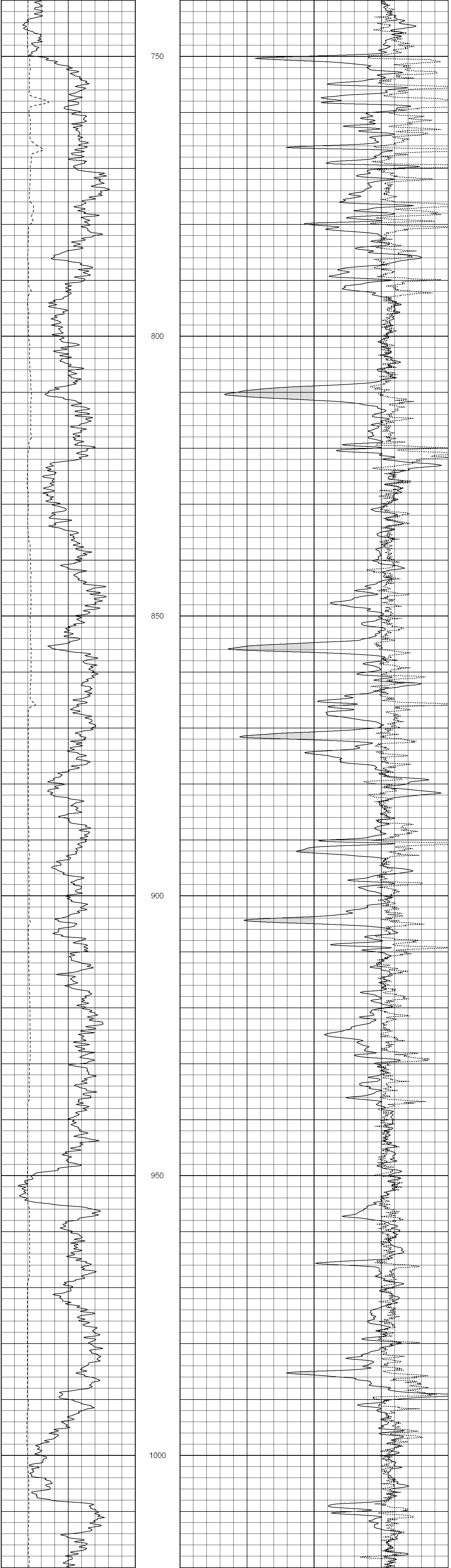
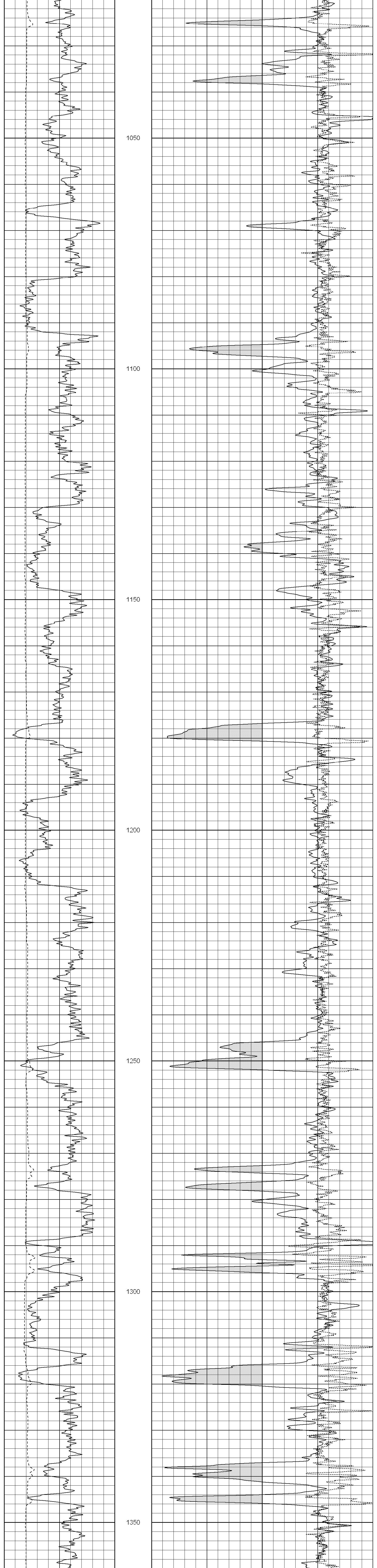
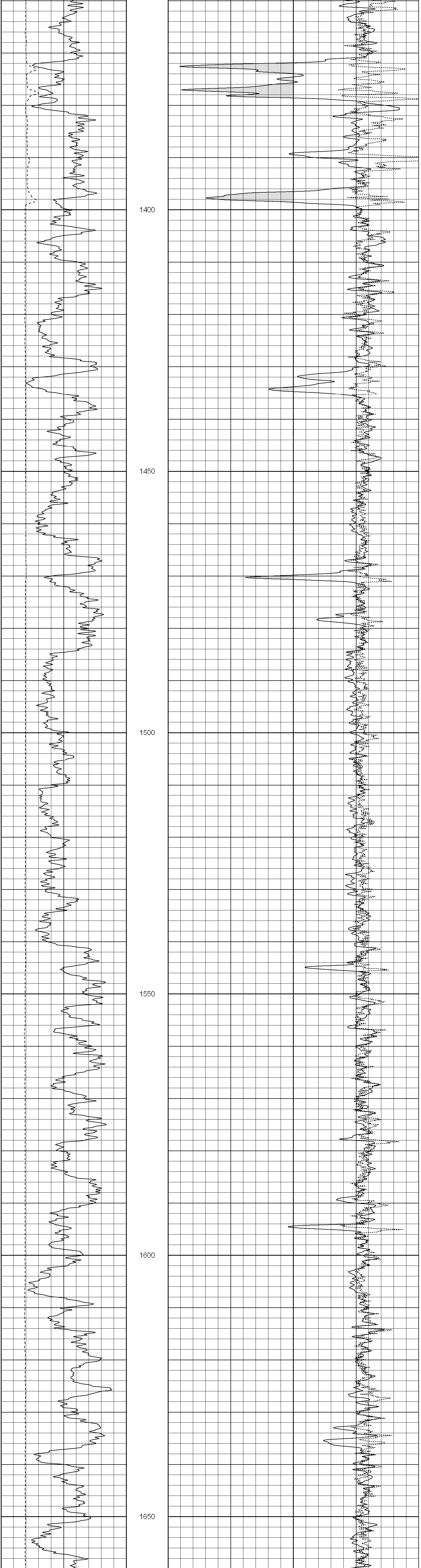
High Resolution Pass

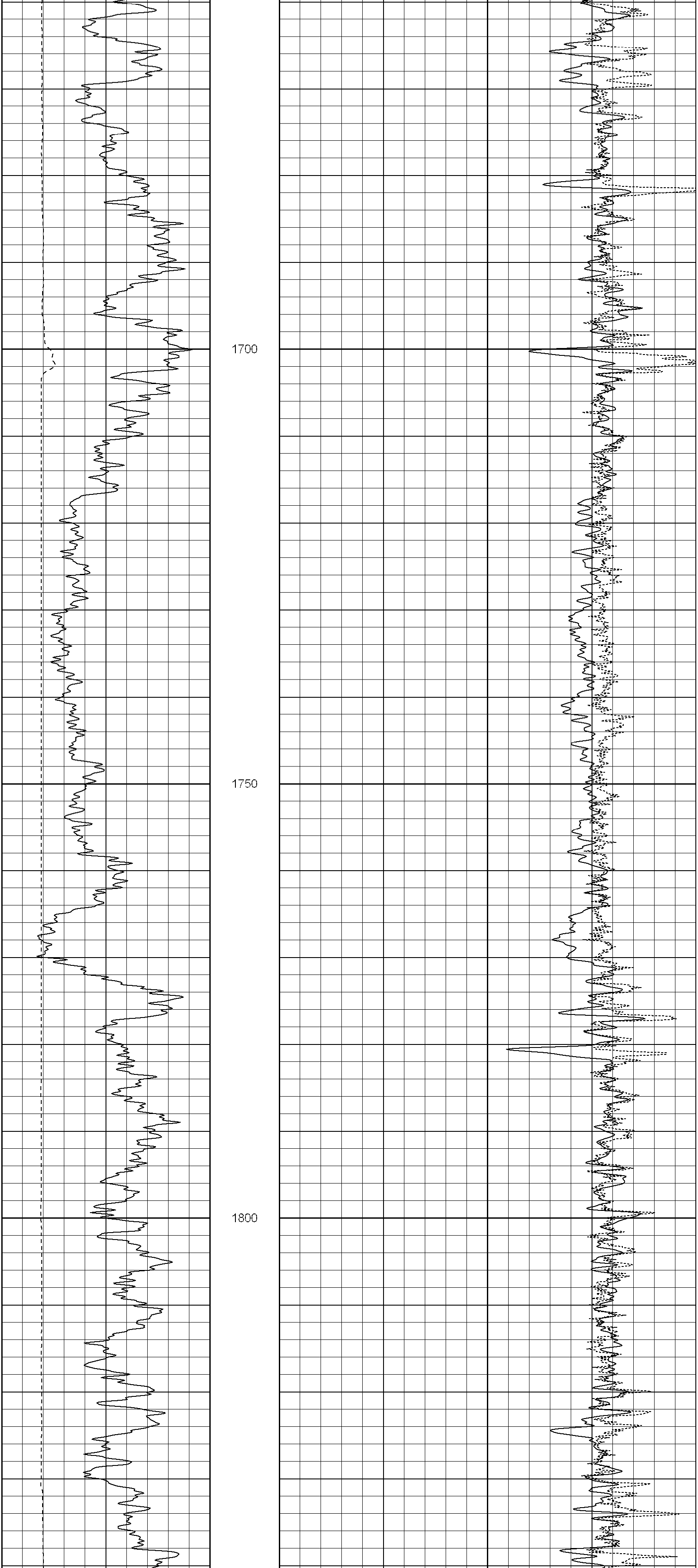
Database File:	xtohr2913.db
Dataset Pathname:	pass4.2
Presentation Format:	cdlhr
Dataset Creation:	Mon Apr 02 07:48:41 2007 by Calc Open-Cased 061129
Charted by:	Depth in Feet scaled 1:120

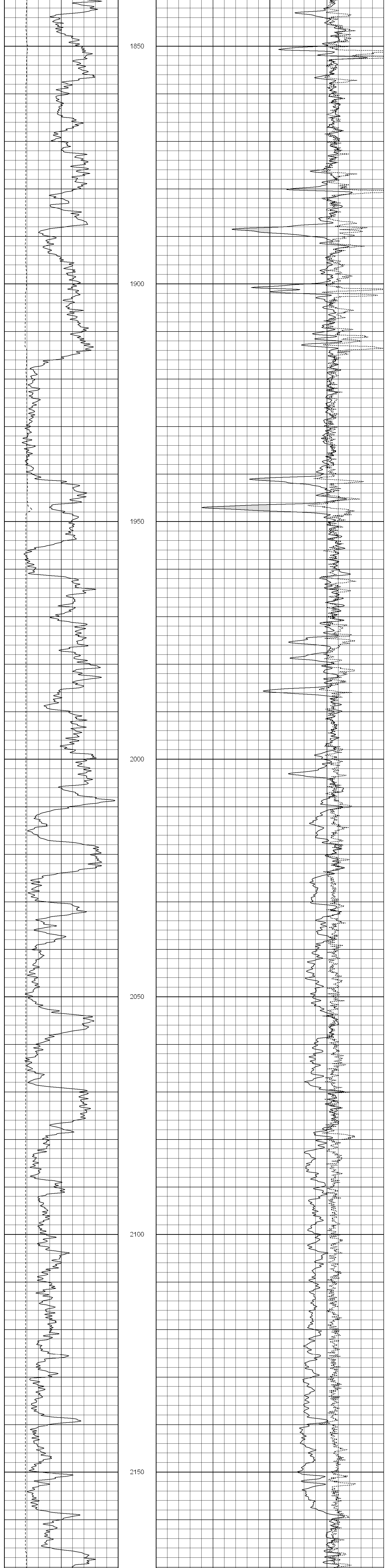


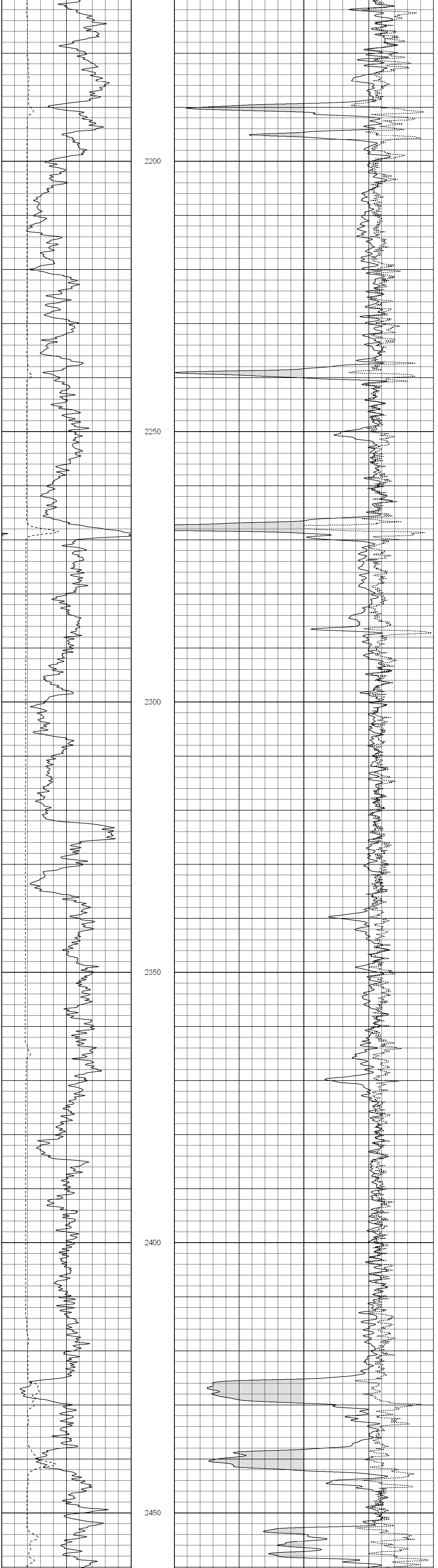


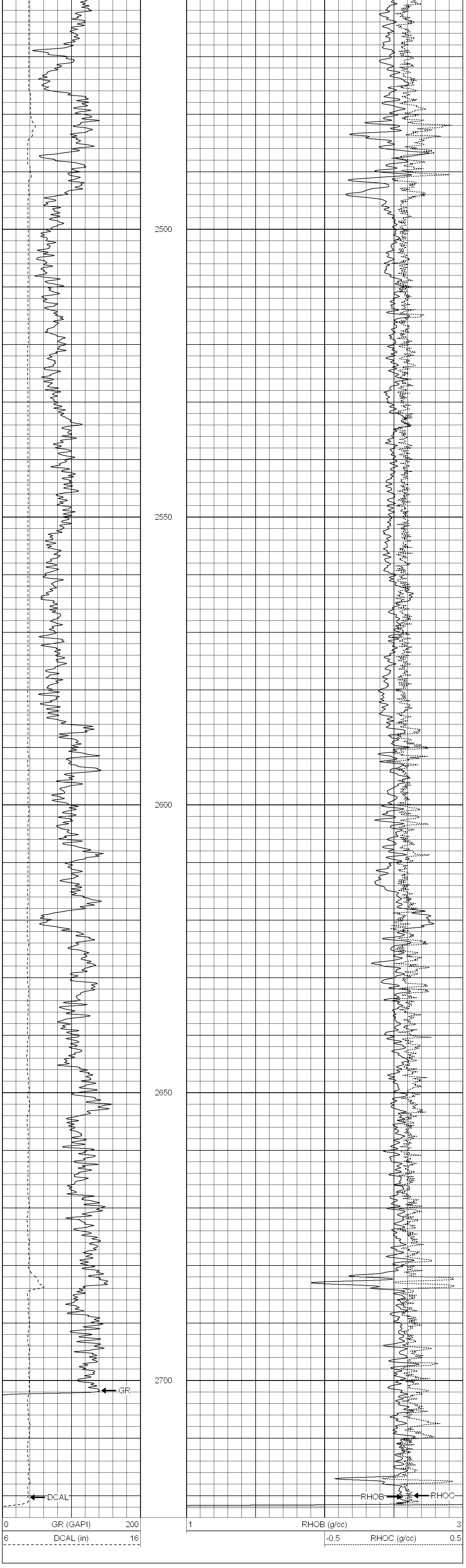












Calibration Report

Database File: xtohr2913.db
Dataset Pathname: pass4
Dataset Creation: Fri Mar 30 19:44:06 2007 by Log Open-Cased 061129

Compensated Density Calibration Report

Serial-Model: 2119-O
Source / Verifier: csv-j12 / blks
Master Calibration Performed: Wed Mar 28 17:52:23 2007

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	988.49	602.41	cps
Aluminum	2.590	g/cc	220.69	404.88	cps

Spine Angle = 75.16

Density/Spine Ratio = 0.567

	Size		Reading	
Small Ring	7.85	in	2.95	V
Large Ring	14.00	in	8.81	V

Gamma Ray Calibration Report

Serial Number: 2119
Tool Model: O
Performed: Mon Jan 15 08:35:20 2007

Calibrator Value: 170.0 GAPI

Background Reading: 42.6 cps
Calibrator Reading: 139.0 cps

Sensitivity: 0.7000 GAPI/cps

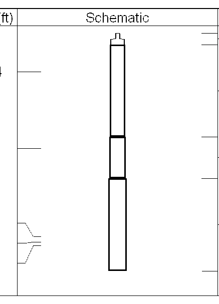
Neutron Calibration Report

Serial Number: 5145
Tool Model: G
Performed: Thu Jan 25 22:38:45 2007

Calibrator Value: 1200 NAPI

Calibrator Reading: 1700 cps

Sensitivity: 1 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			None	0.75	1.50	5.00
NEU	12.44		NEU-G (5145) Gearhart Epithermal	5.75	3.50	85.00
GR	7.64		GR-O (2119) Oilex	2.60	3.63	74.00
LSD DCAL SSD	2.13 1.79 1.58		CDL-O (2119) Oilex	5.77	4.00	201.00

Dataset: xtohr2913.db: field/well/run1/pass4
Total Length: 14.87 ft
Total Weight: 365.00 lb
O.D. 4.00 in