SUPERIOR WELL SERVICES

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

DUAL INDUCTION 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
CDL
NEUTRON

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	One		
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	6:30 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

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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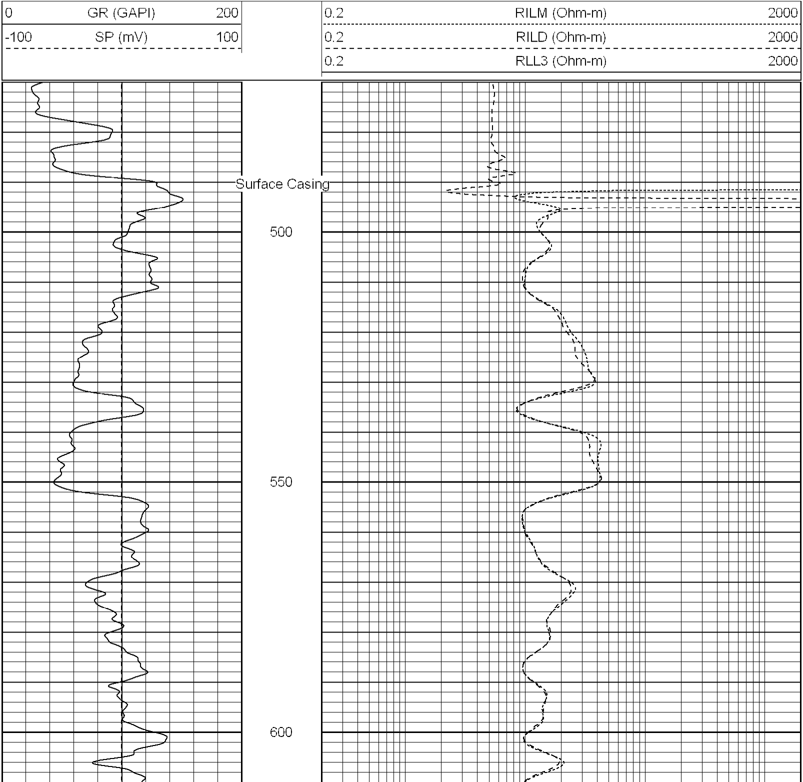
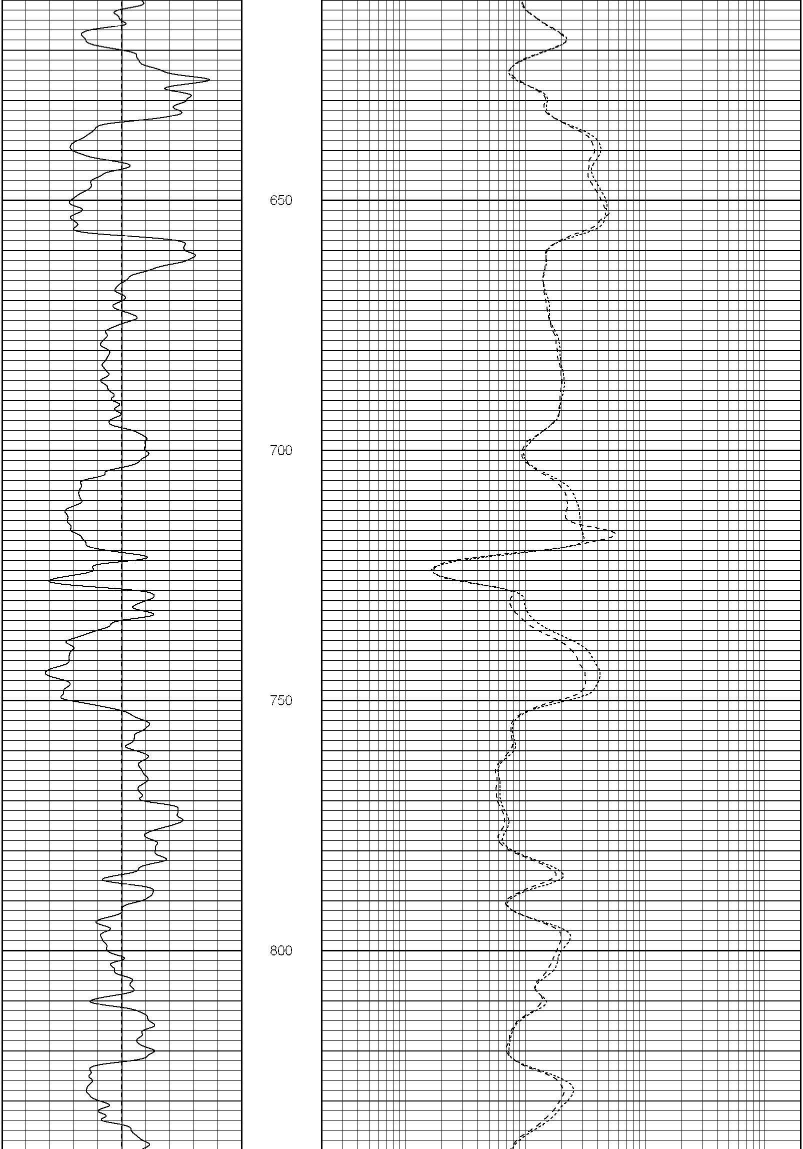
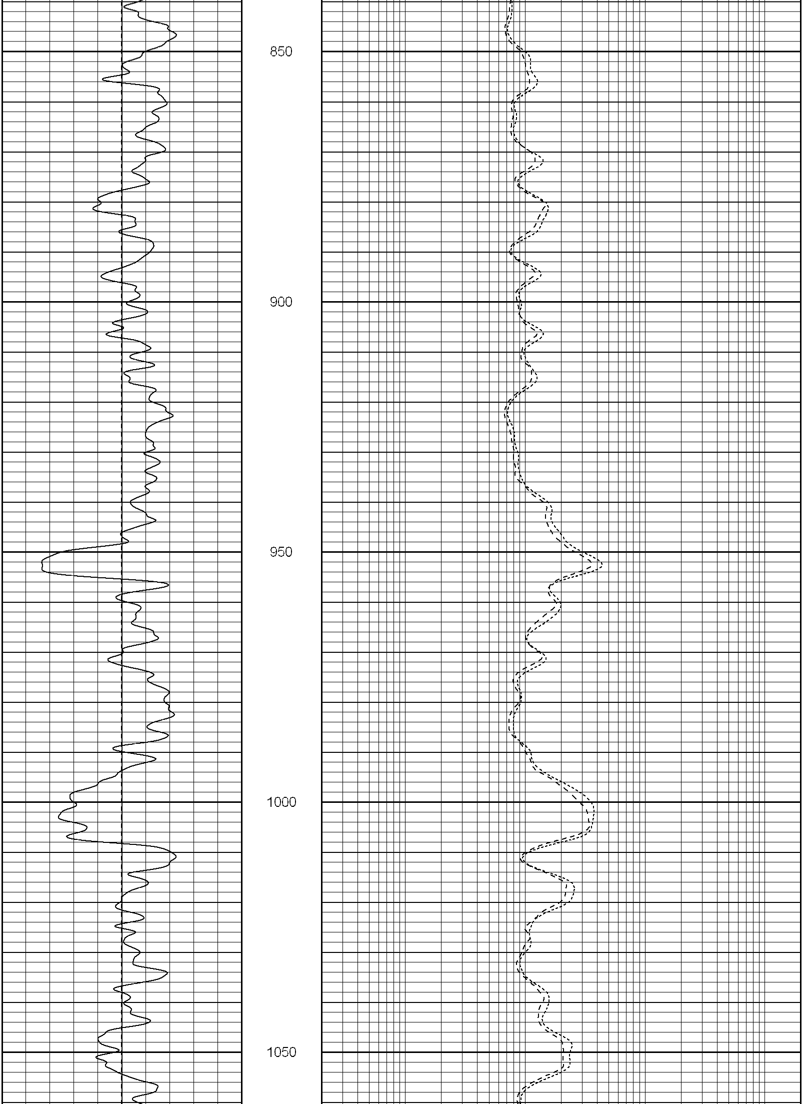
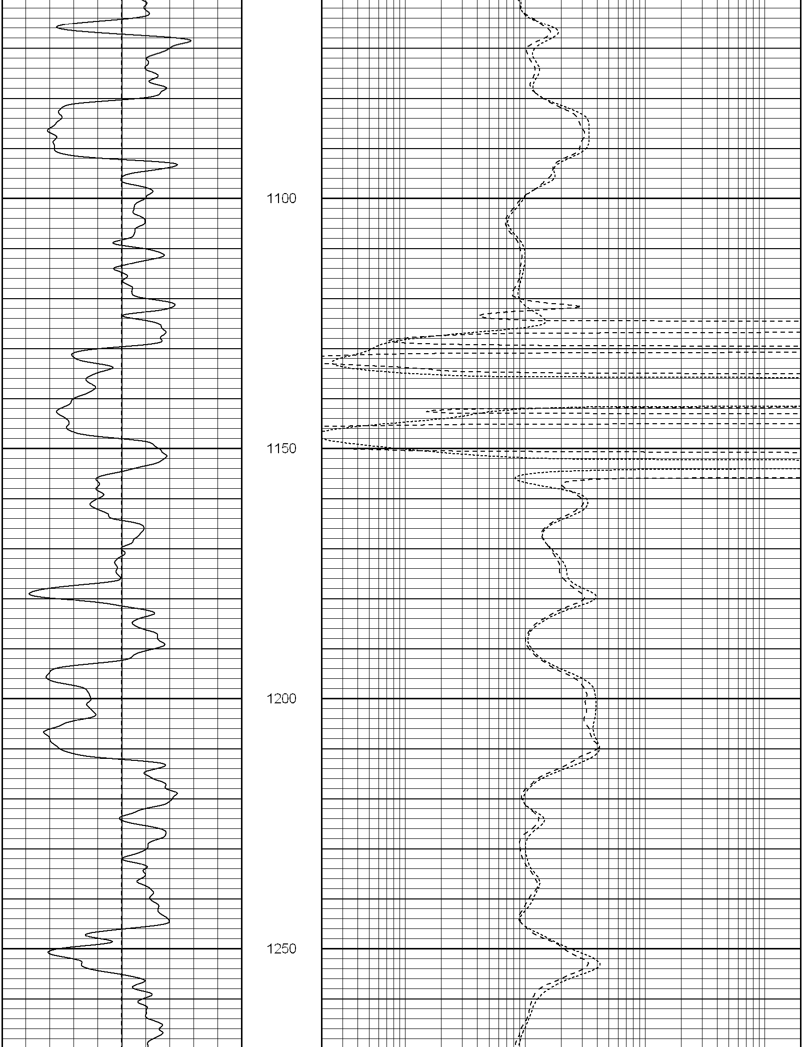
Main Pass

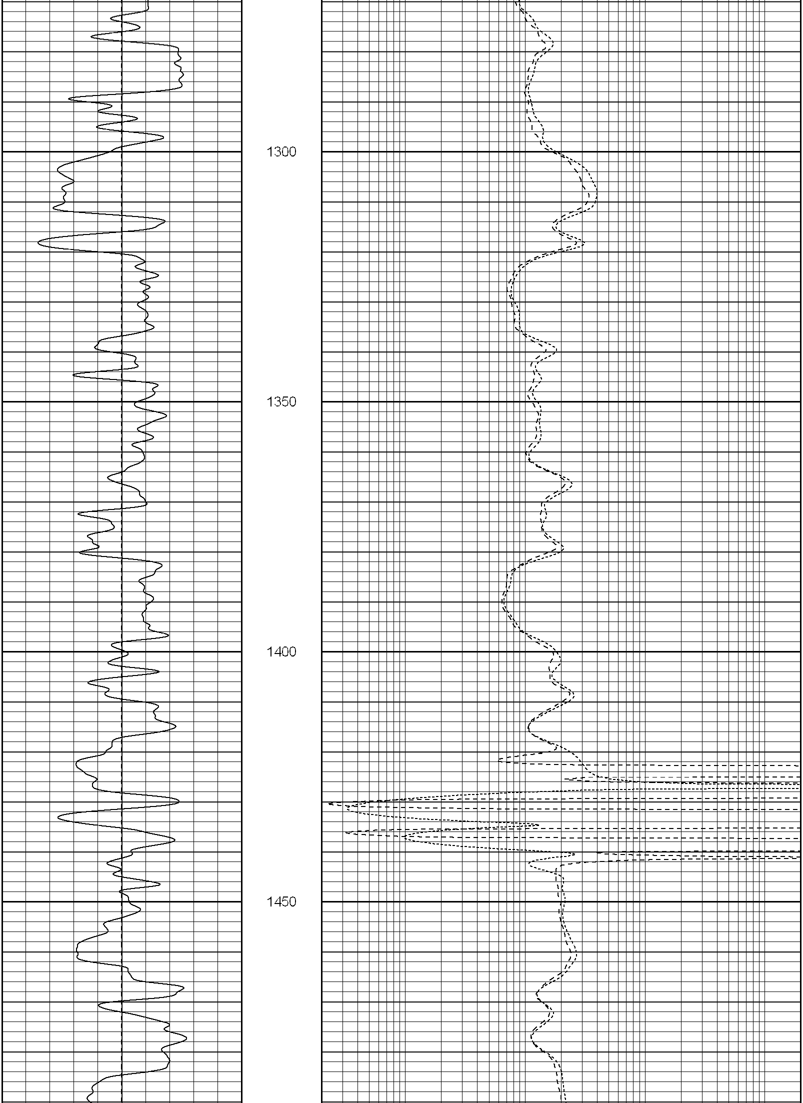
Database File: xtohr2913.db
Dataset Pathname: pass2.1
Presentation Format: dil
Dataset Creation: Fri Mar 30 21:01:59 2007 by Calc Open-Cased 061129
Charted by: Depth in Feet scaled 1:240

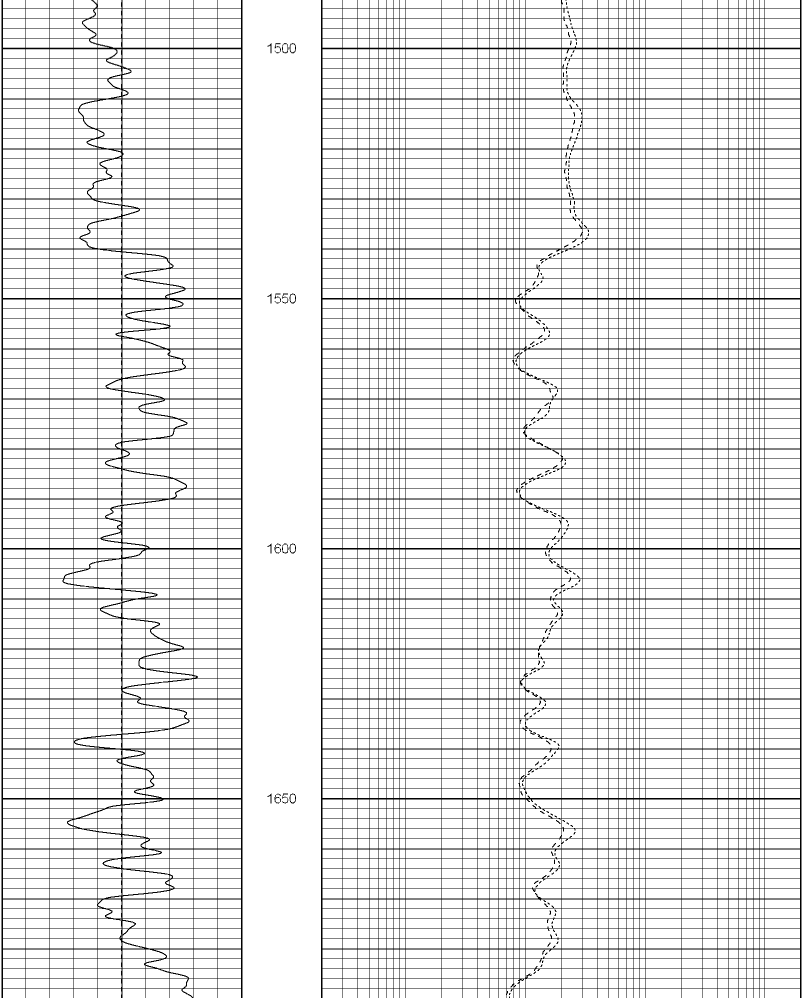


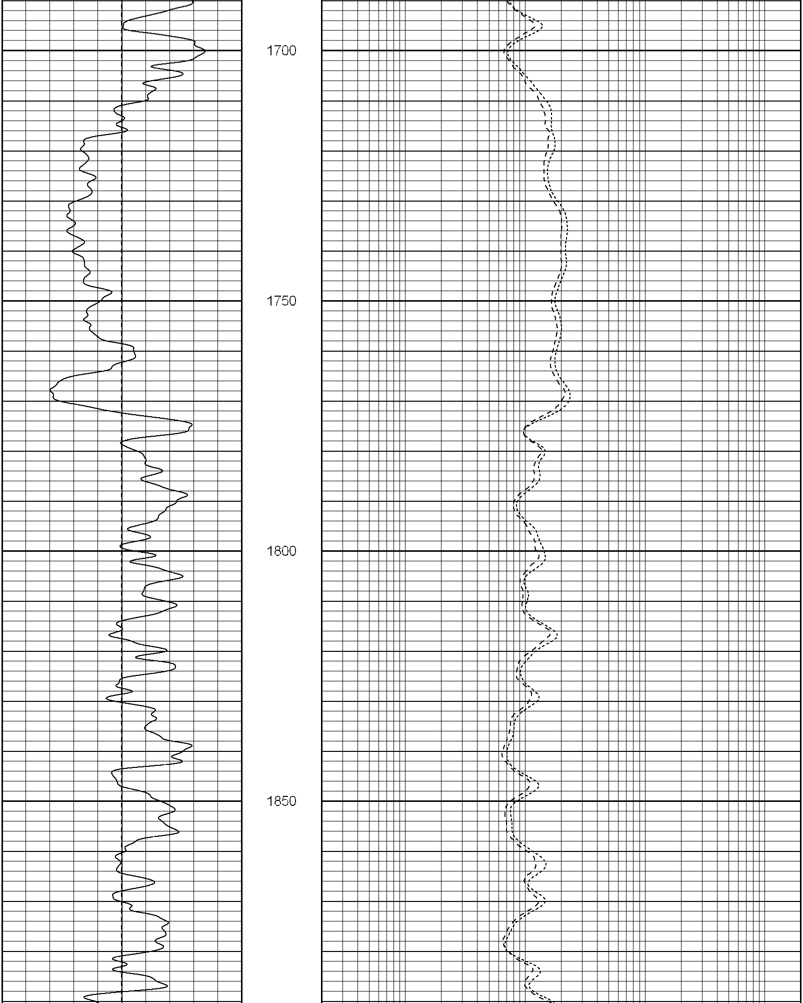


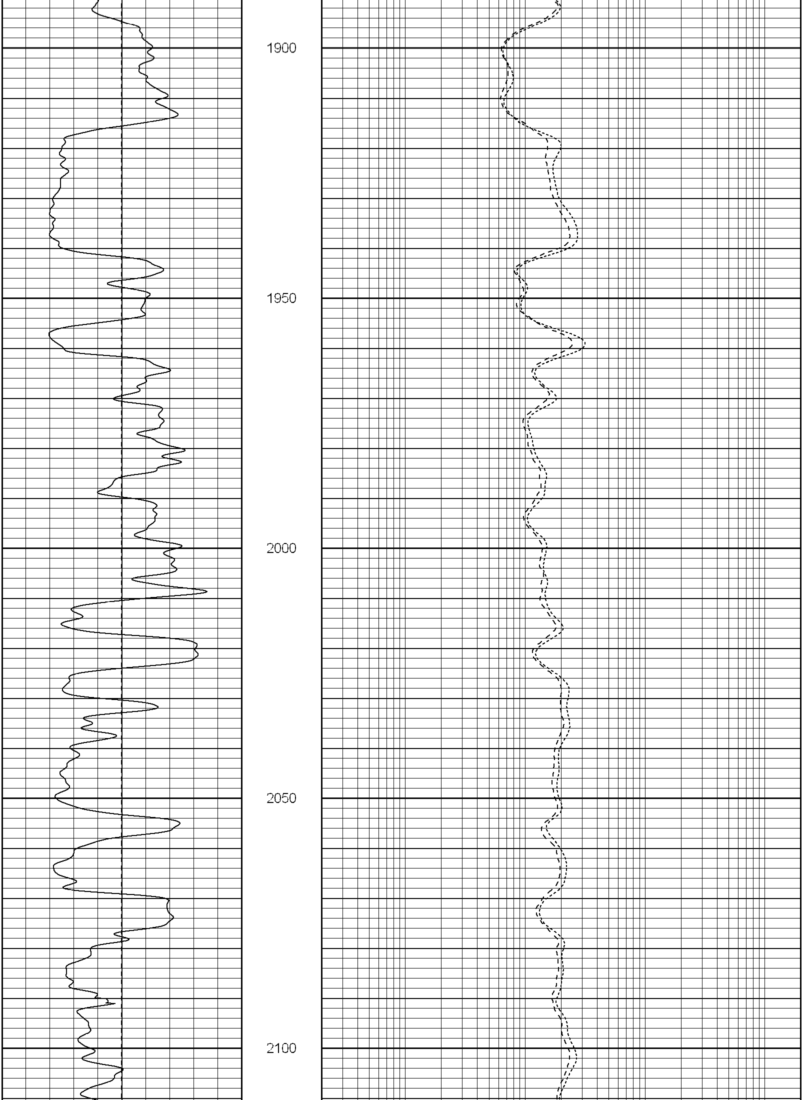


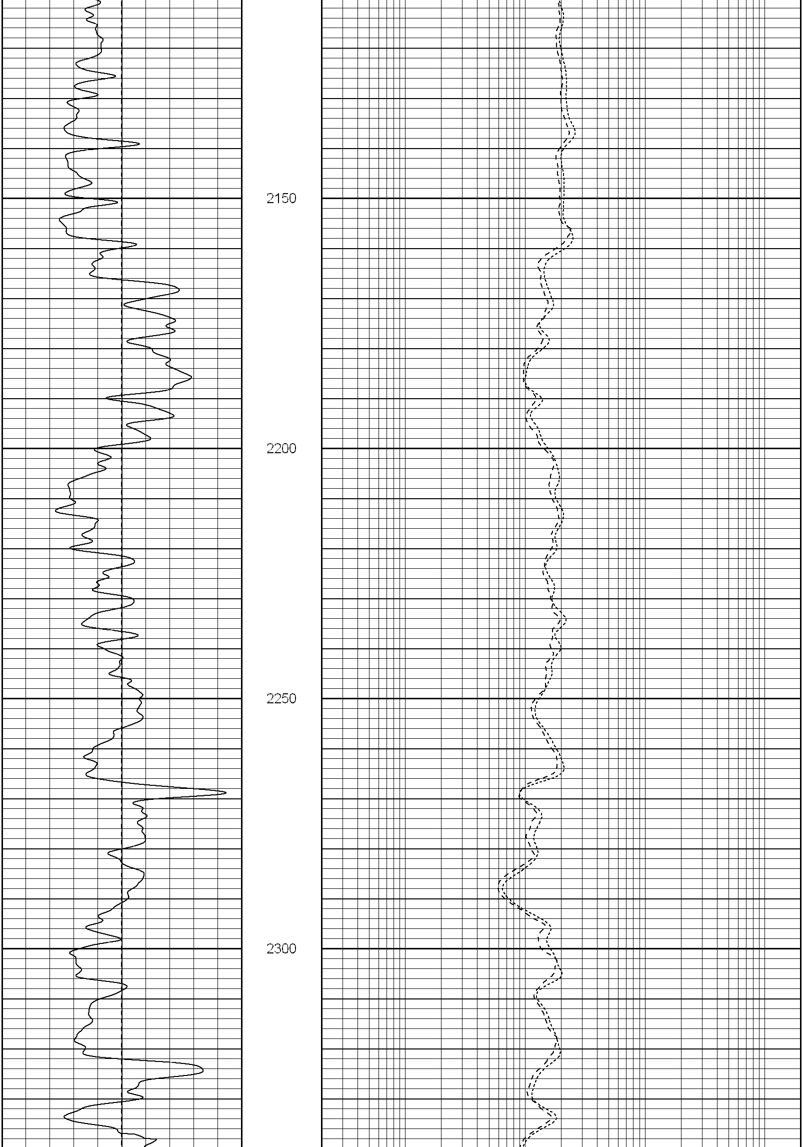


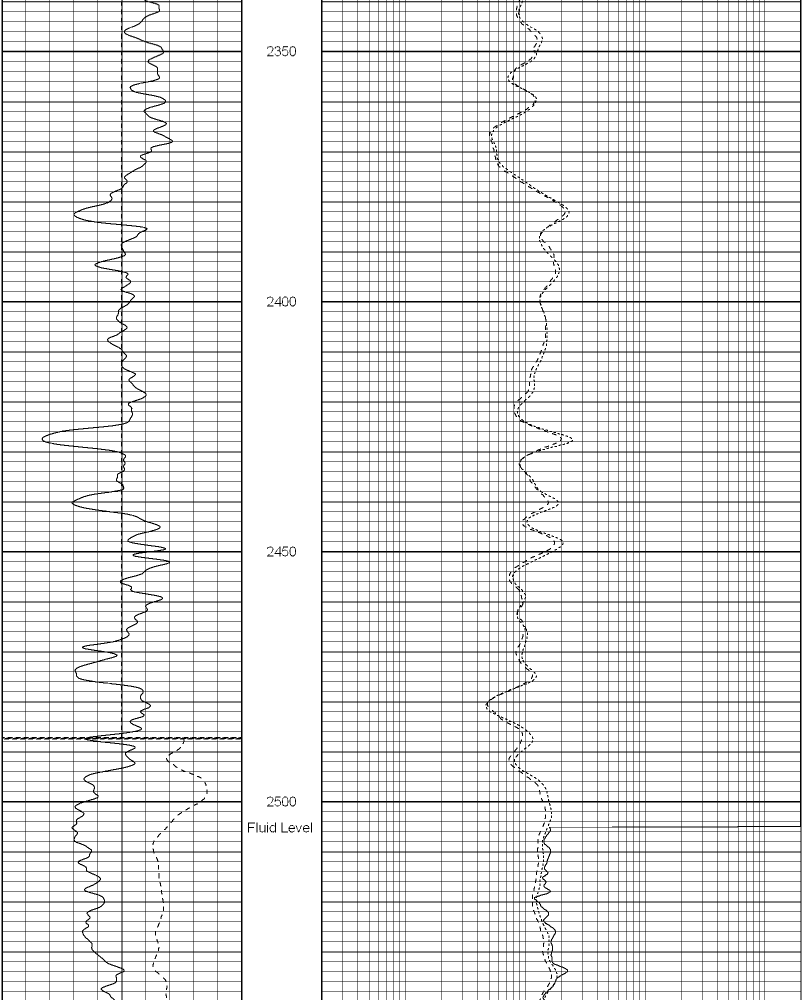


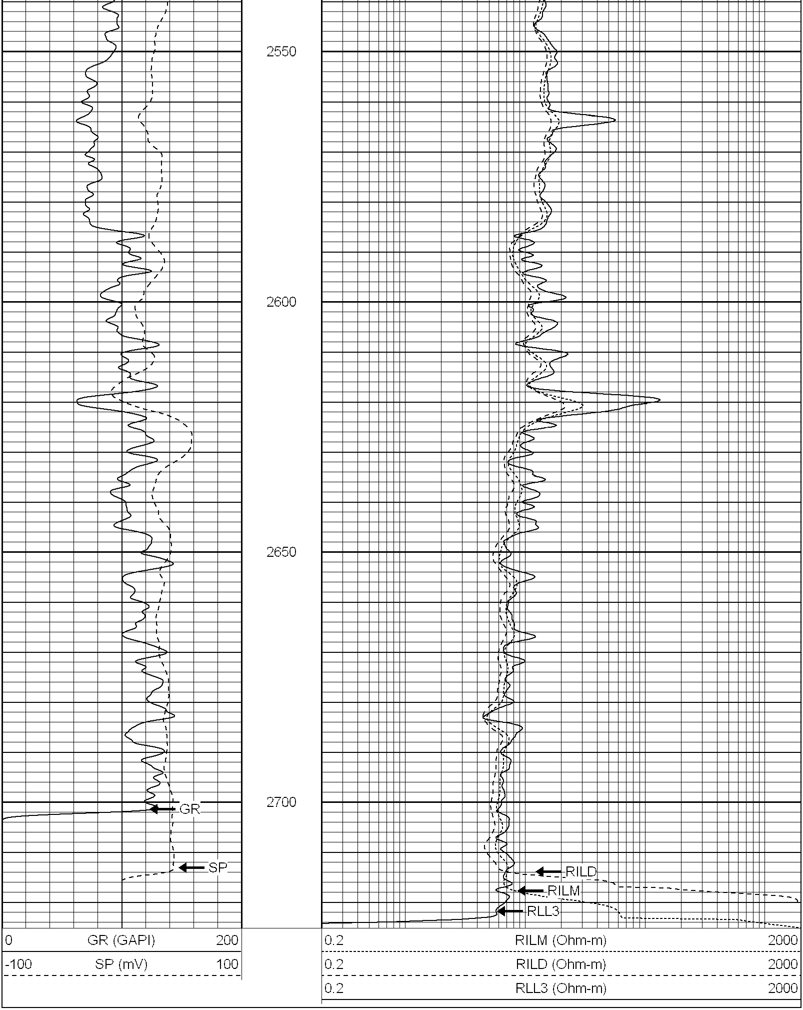












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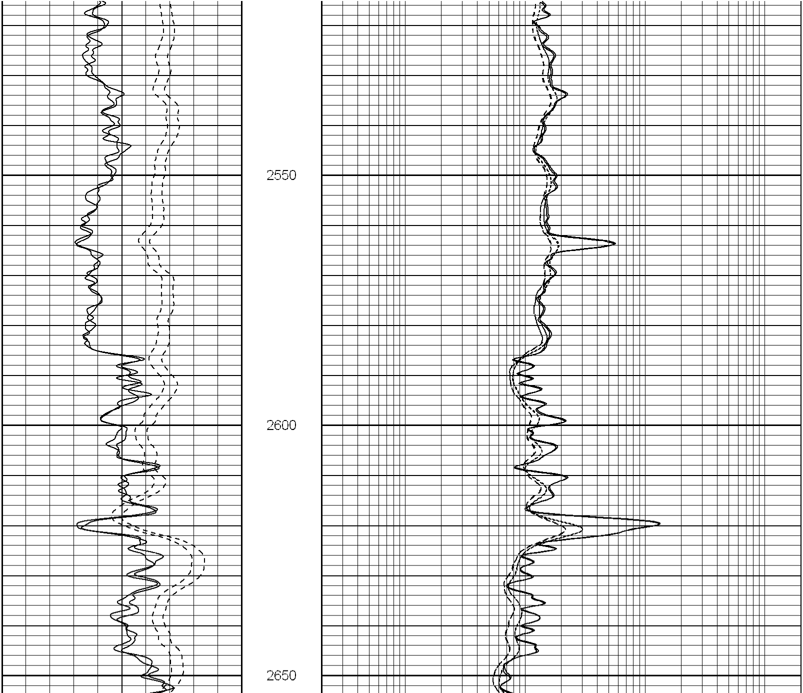
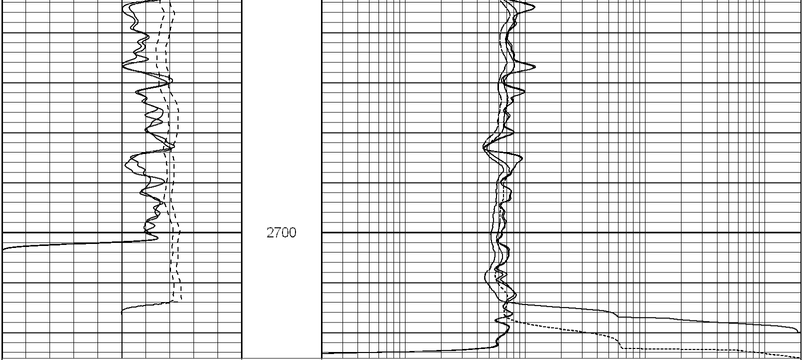
Repeat Section

Database File:	xtohr2913.db
Dataset Pathname:	pass1.1
Presentation Format:	dil
Dataset Creation:	Fri Mar 30 21:01:22 2007 by Calc Open-Cased 061129
Charted by:	Depth in Feet scaled 1:240

0	GR (GAPI)	200
-100	SP (mV)	100
0	GR-repeat (GAPI)	200
-100	SP-repeat (mV)	100

0.2	RILM (Ohm-m)	2000
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RLL3-repeat (Ohm-m)	2000
0.2	RILM-repeat (Ohm-m)	2000
0.2	RILD-repeat (Ohm-m)	2000





0	GR (GAPI)	200	0.2	RILM (Ohm-m)	2000
-100	SP (mV)	100	0.2	RILD (Ohm-m)	2000
0	GR-repeat (GAPI)	200	0.2	RLL3 (Ohm-m)	2000
-100	SP-repeat (mV)	100	0.2	RLL3-repeat (Ohm-m)	2000
			0.2	RILM-repeat (Ohm-m)	2000
			0.2	RILD-repeat (Ohm-m)	2000

Calibration Report

Database File: xtohr2913.db
Dataset Pathname: pass2
Dataset Creation: Fri Mar 30 18:39:49 2007 by Log Open-Cased 061129

Dual Induction Calibration Report

Serial-Model: 5375-G
Surface Cal Performed: Fri Jan 19 08:02:09 2007
Downhole Cal Performed: Sun Jan 21 14:02:19 2007

Surface Calibration

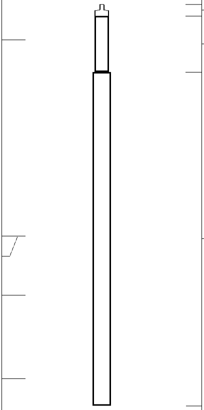
	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.001	0.620	V	0.000	500.000	mmho-m	807.659	-1.119
Medium	0.005	0.743	V	0.000	550.000	mmho-m	744.727	-3.505
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.001	0.620	V	0.000	500.000	mmho-m	807.698	-1.159
Medium	0.005	0.743	V	0.000	550.000	mmho-m	744.801	-3.569

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.123	499.901	mmho-m	0.039	500.015	mmho-m	1.000	-0.084
Medium	0.245	549.982	mmho-m	0.064	550.009	mmho-m	1.000	-0.182
Shallow	2.506	0.009	V	500.000	2.000	Ohm-m	150.000	0.000

Gamma Ray Calibration Report

Serial Number:	2001	
Tool Model:	OH	
Performed:	Wed Mar 28 14:54:25 2007	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.1700	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			None	0.75	1.50	5.00
GR	22.83		GR-OH (2001) SIE	3.50	3.25	40.00
CILD	10.60		DIL-G (5375) Gearhart	20.83	4.00	345.00
SP	10.60					
CILM	6.89					
RLL3	1.70					

Dataset: xtohr2913.db: field/well/run1/pass2
Total Length: 25.08 ft
Total Weight: 390.00 lb
O.D. 4.00 in