Company	LARAMIE ENERGY II, LLC
Well	BRUTON 30-8B
Field	BRUSH CREEK
County	MESA State CO

HALLIBURTON

TEMPERATURE LOG

Company	LARAMIE ENERGY II, LLC
Well	BRUTON 30-8B
Field	BRUSH CREEK
County	MESA State CO

API No.: 05-077-10103-0000 Serv #: 9484587

Location: SURFACE HOLE: 2525' FSL & 1799' FEL

BOTTOM HOLE: 1803' FNL & 0648' FEL

Sec: 30 Twp: 09S Rge: 93W

Other Services

CBL

Permanent Datum	GROUND LEVEL	Elevation	7647
Log Measured From	KB . 21' Ft. above perm. datum	Elevation	K.B. 7668 D.F. 7667 G.L. 7647
Drilling Measured From	KB		
Date @ Time Logged	02 MAY 2012	Type Fluid in Hole	WATER
Run No.	ONE	Density of Fluid	8.3
Depth - Driller	7970'	Fluid Level	FULL
Depth - Logger	7934'	Cement Top Est. Logged	SEE LOG
Bottom - Logged Interval	7934'	Equipment / Location	11726117 / GJ
Top - Log Interval	125'	Recorded by	D. SOLIS
Max. Recorded Temp.	231 DEGF	Witnessed by	N/A

CEMENTING DATA	Surface String	Protection String	Production String	Liner
Date / Time Cemented	N/A	N/A	N/A	N/A
Primary / Squeeze				
Expected Compressive Strength	psi@ hrs	psi@ hrs	psi@ hrs	psi@ hrs
Cement Type / Weight	/	/	/	/
Cement Volume				
Formulation				
Mud Type / Mud Wgt.	/	/	/	/

Borehole Record				Casing & Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	12.25"	SURFACE	1200'	8.625"	32.0#	SURFACE	1550'
TWO	7.875"	1200'	7980'	4.5"	11.6#	SURFACE	7970'

<<< 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 WHCIH 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 HALLIBURTON DENSITY-NEUTRON LOG DATED: 29 JAN 2012.

CBL-GR-TEMP RAN IN COMBINATION.

LOG INTERVALS PER CUSTOMER REQUEST.

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES.

Service Ticket No. 9484587 API No. 05-077-10103-0000 PGM Ver 111027_R1

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

EQUIPMENT DATA

ACOUSTIC BOND TOOL		GAMMA RAY / CCL		TEMPERATURE TOOL			
Run No.	ONE	Run No.	ONE	Run No.	ONE	Run No.	
Serial No.	080544	Serial No.	061015	Serial No.	001	Serial No.	
Model No.	CBL-PROBE	Model No.	GR-PROBE	Model No.	TEMP 1.375"	Model No.	
Diameter	2.75"	Diameter	2.75"	Diameter	1.375"	Diameter	

LOGGING DATA

General Data

Pass	Depths		Well Head	Speed	Logging Run Comments
No.	From	To	Pressure	Ft/Min	
ONE	125'	7934'	0	70	MAIN LOG SECTION

	GR		CCL		DTEMP		TEMP	
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
ONE	0	200	-9	1	-1	1	50	100

DIRECTIONAL INFORMATION

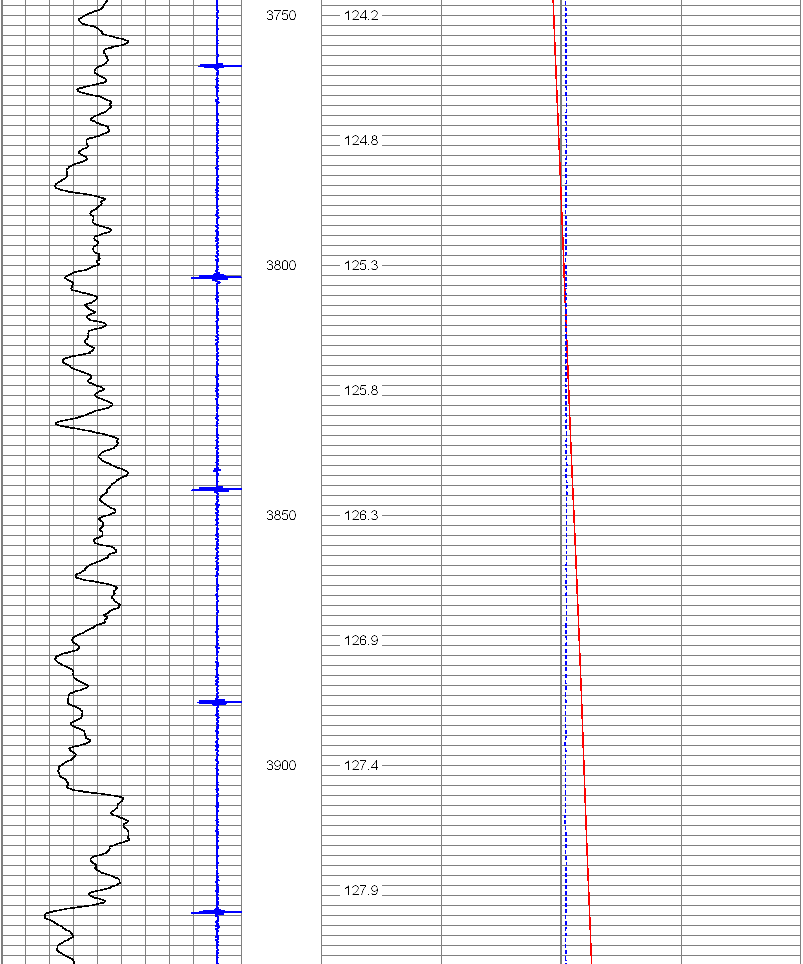
Maximum Deviation	N/A	deg. @	N/A	KOP	N/A

HALLIBURTON

MAIN LOG SECTION

5" = 100'

Database File:	bruton_30_8b_cbl2.db
Dataset Pathname:	5_2/TEMP
Presentation Format:	temp
Dataset Creation:	Mon May 02 13:32:36 2011
Charted by:	Depth in Feet scaled 1:240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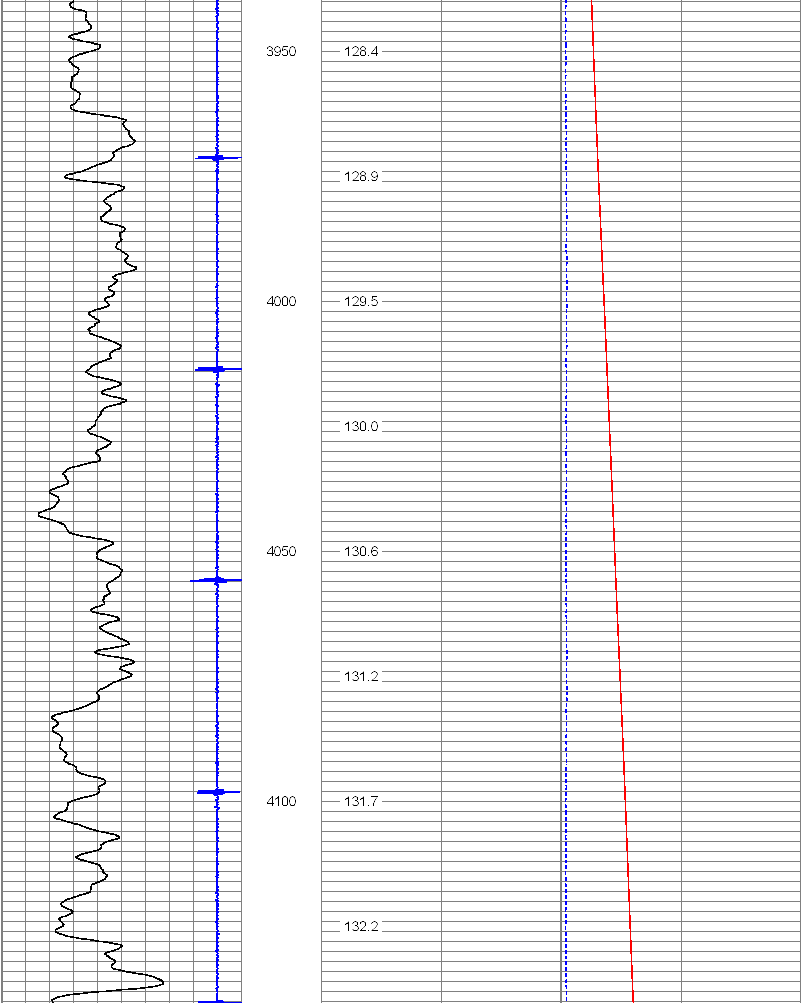
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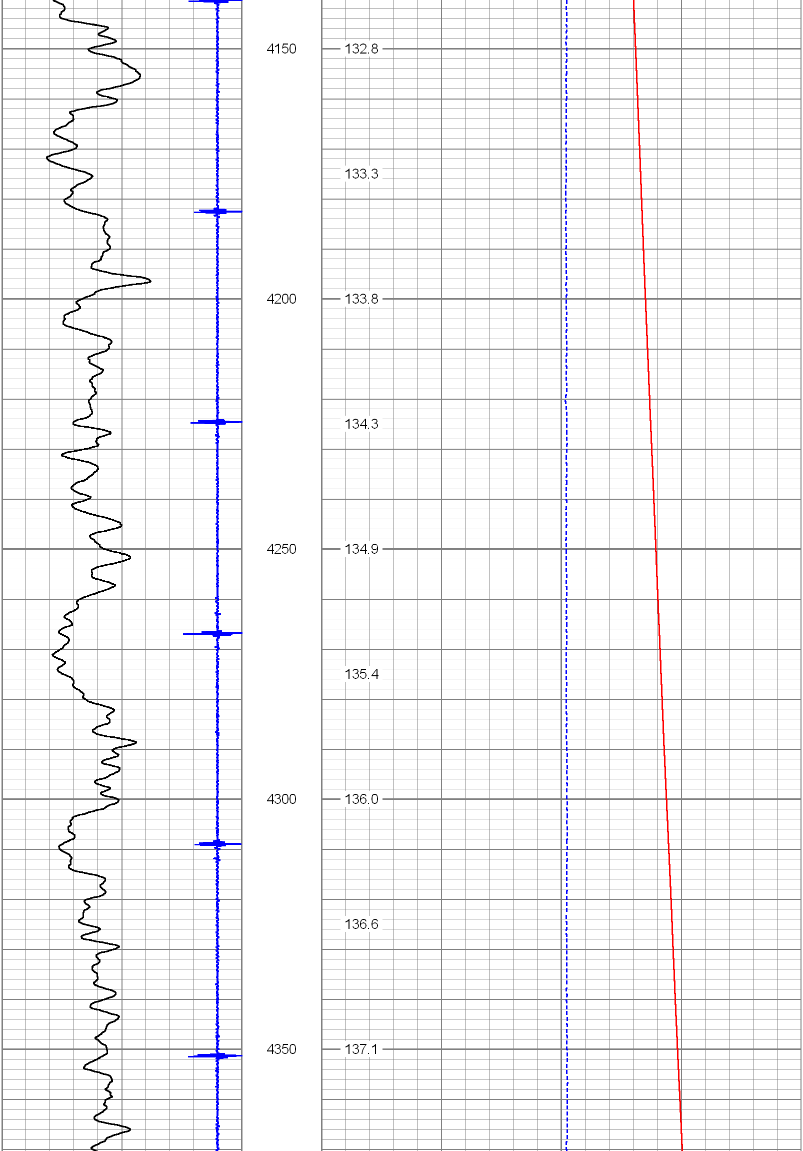
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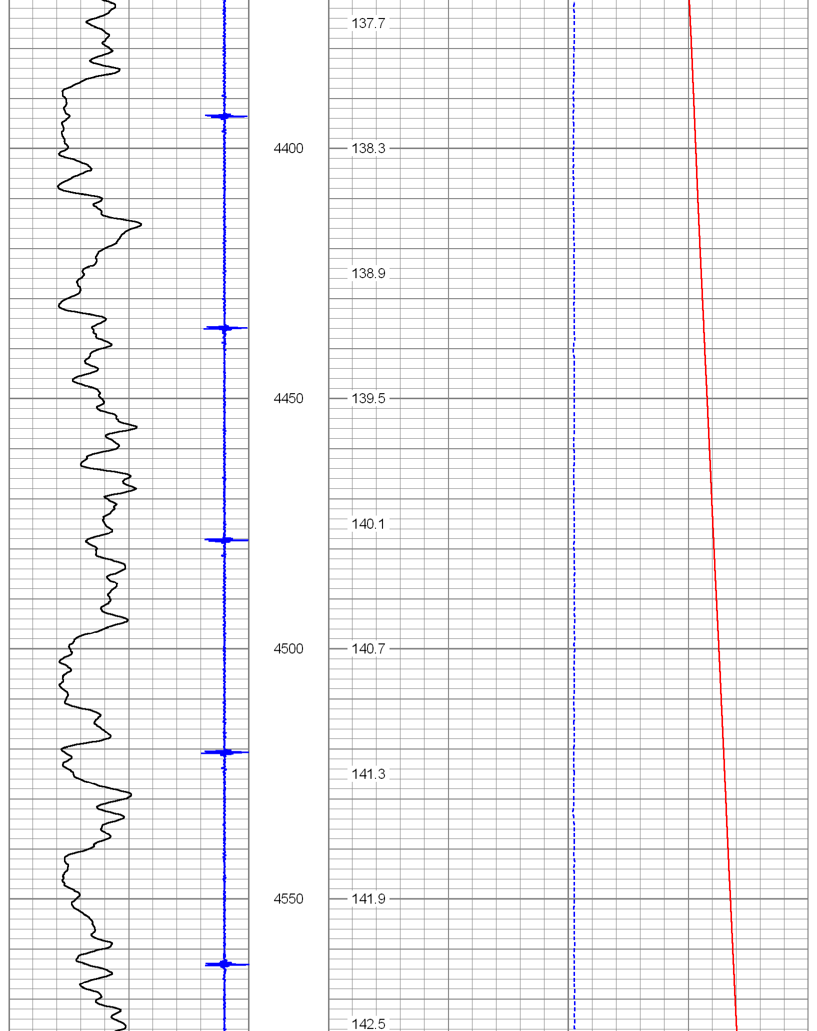
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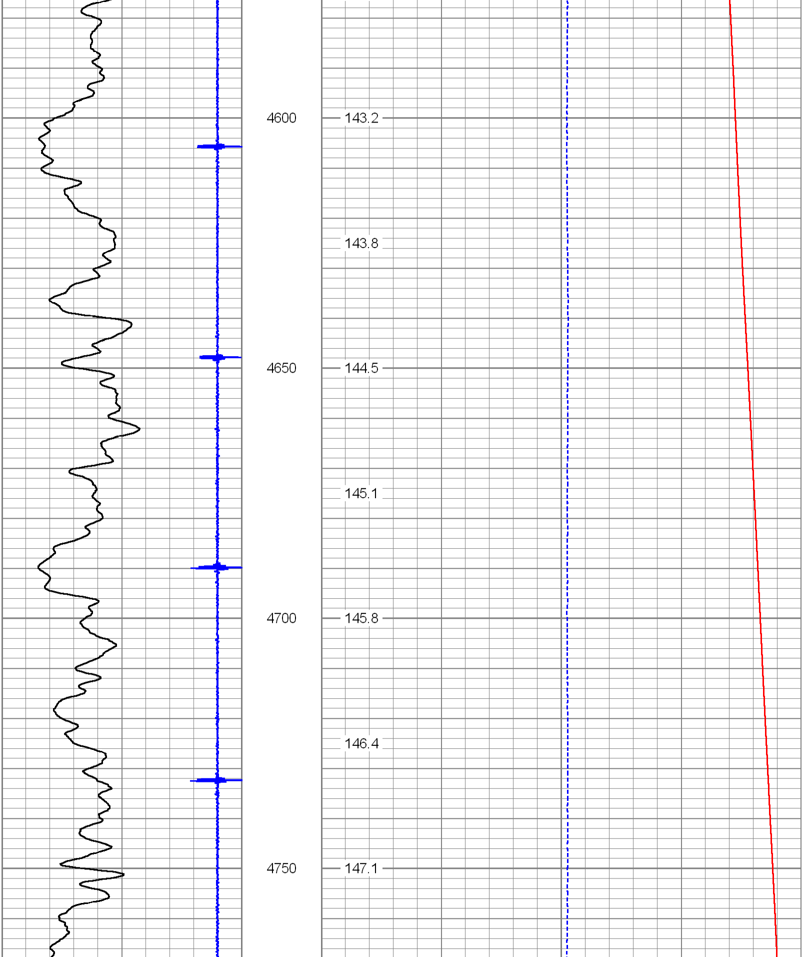
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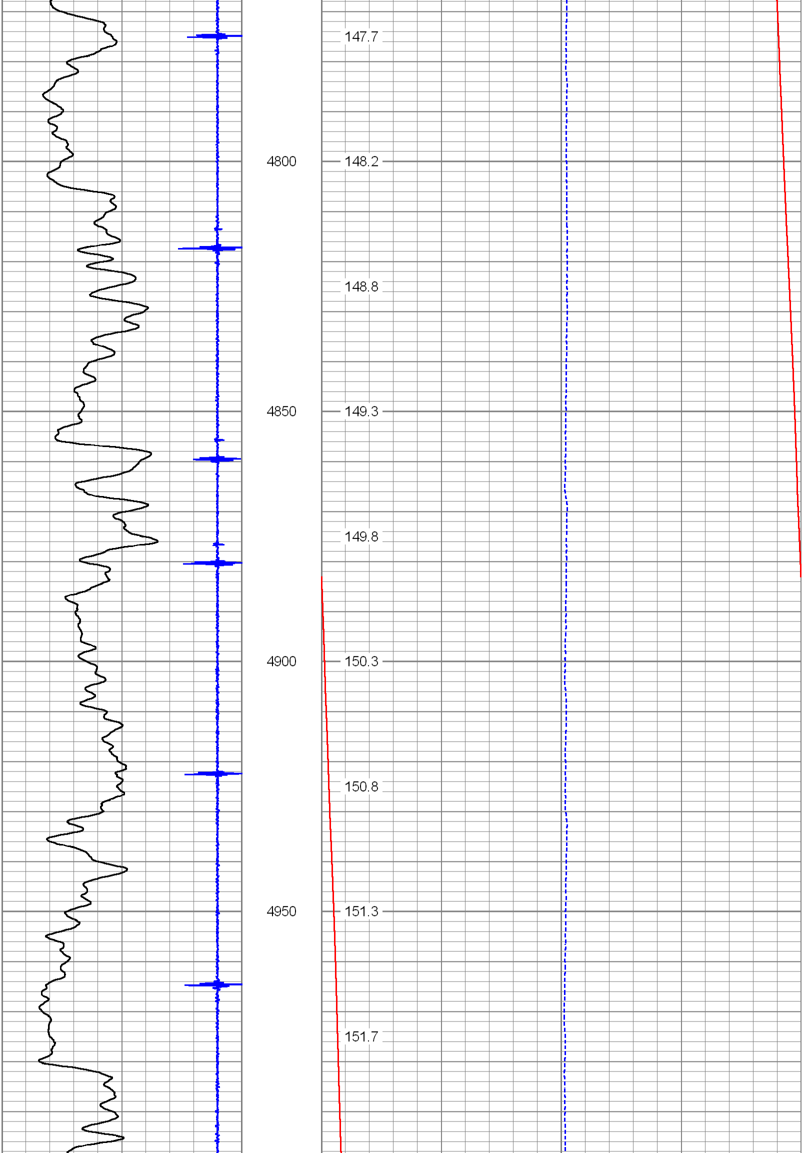
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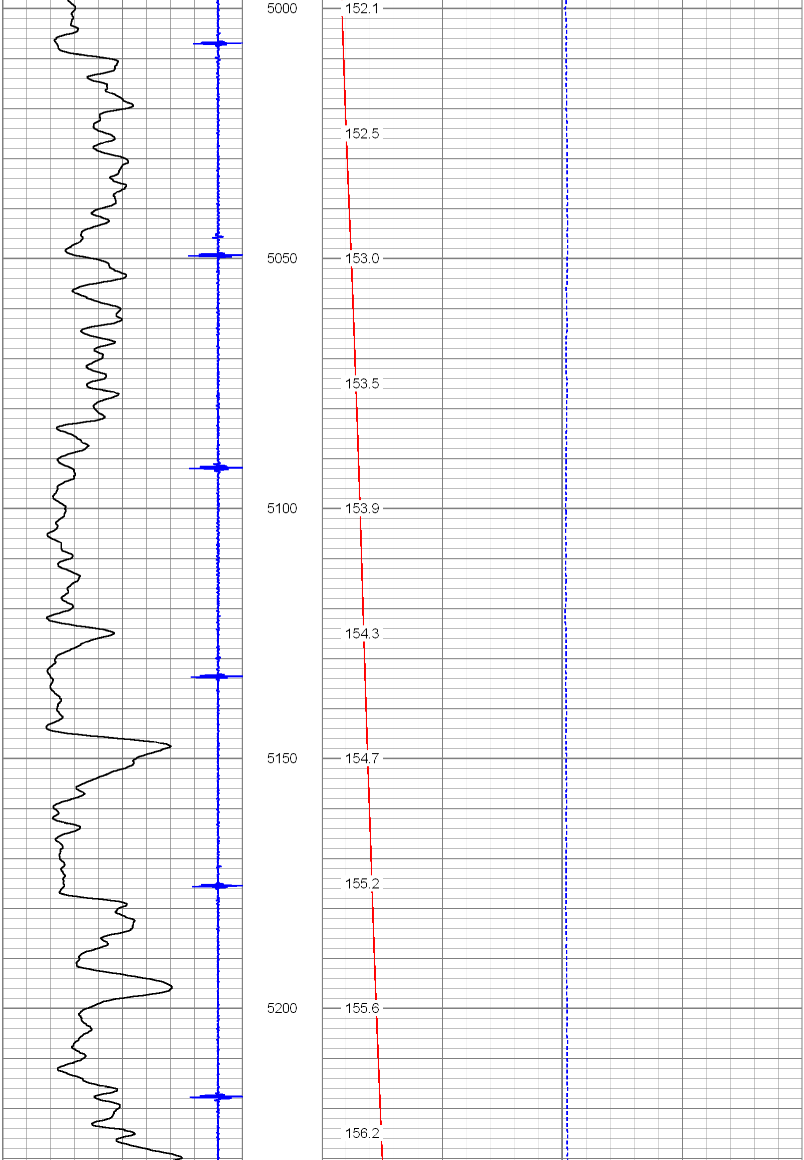
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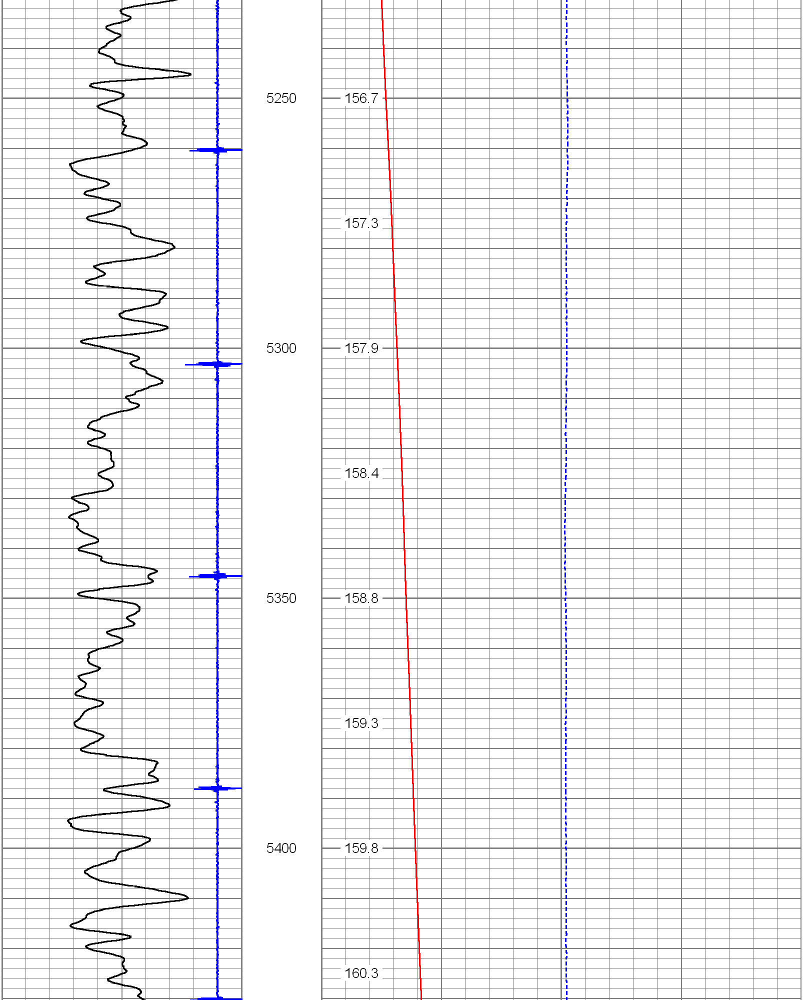
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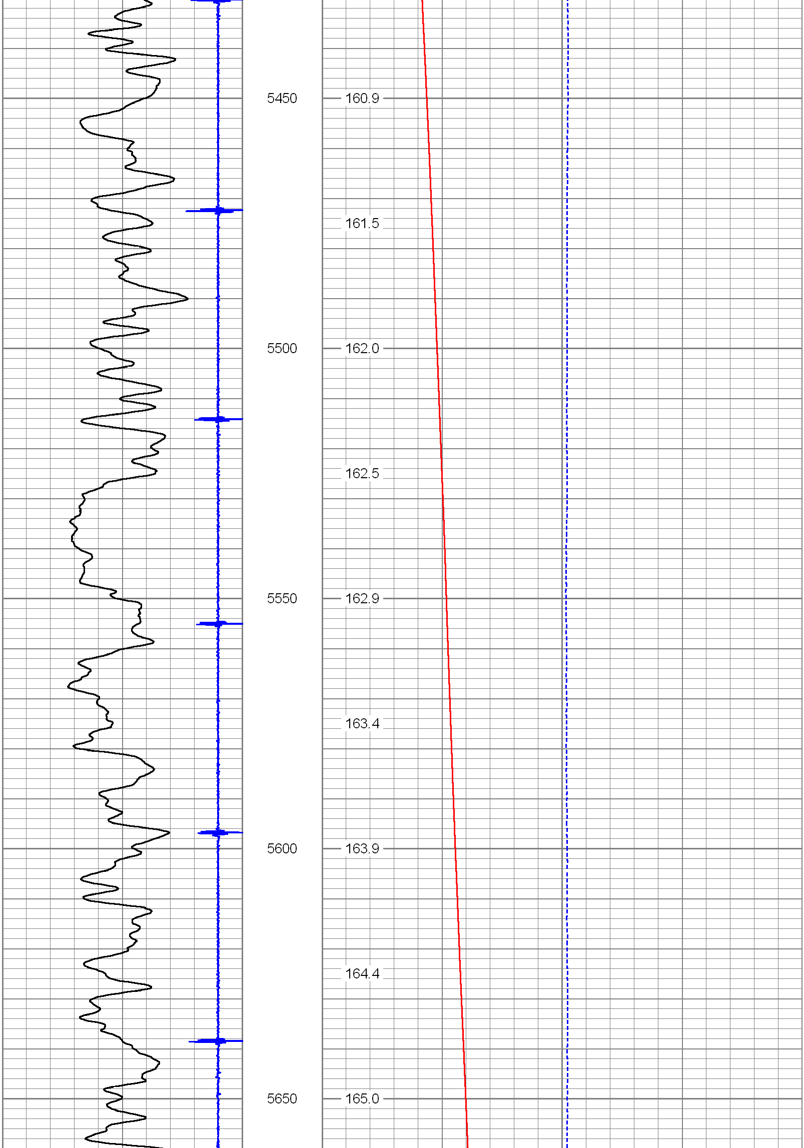
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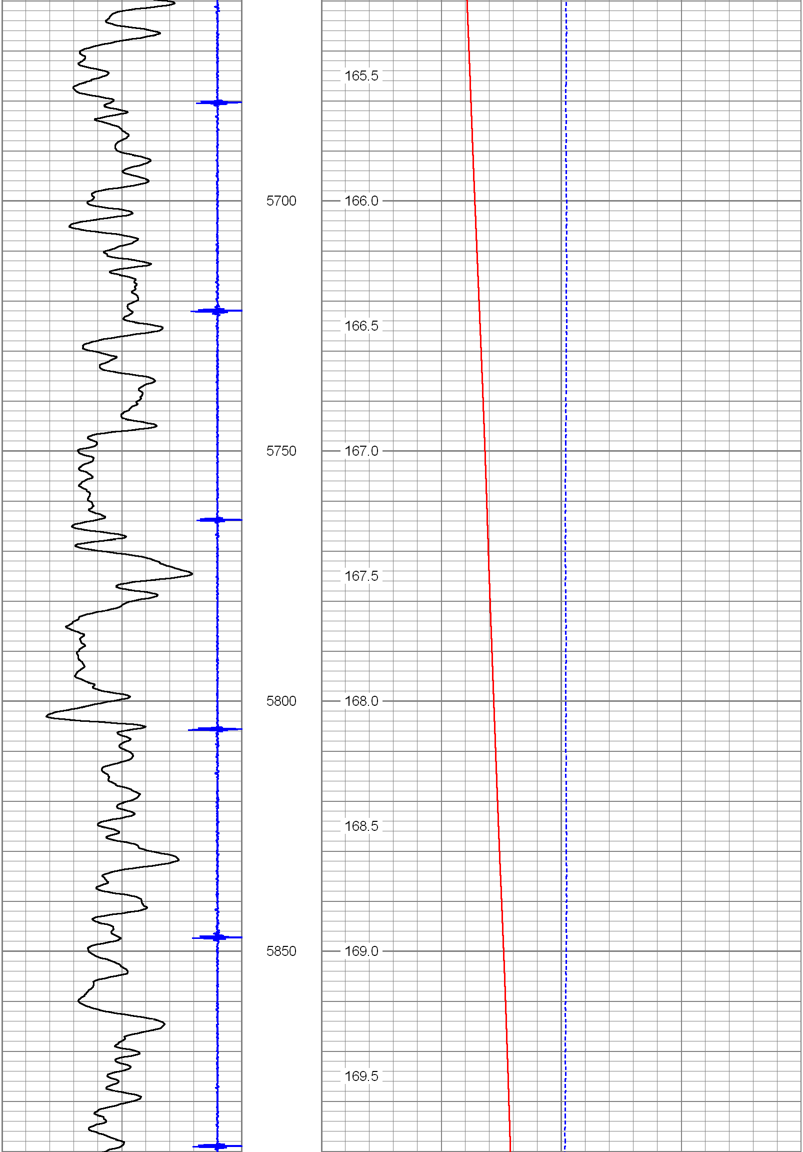
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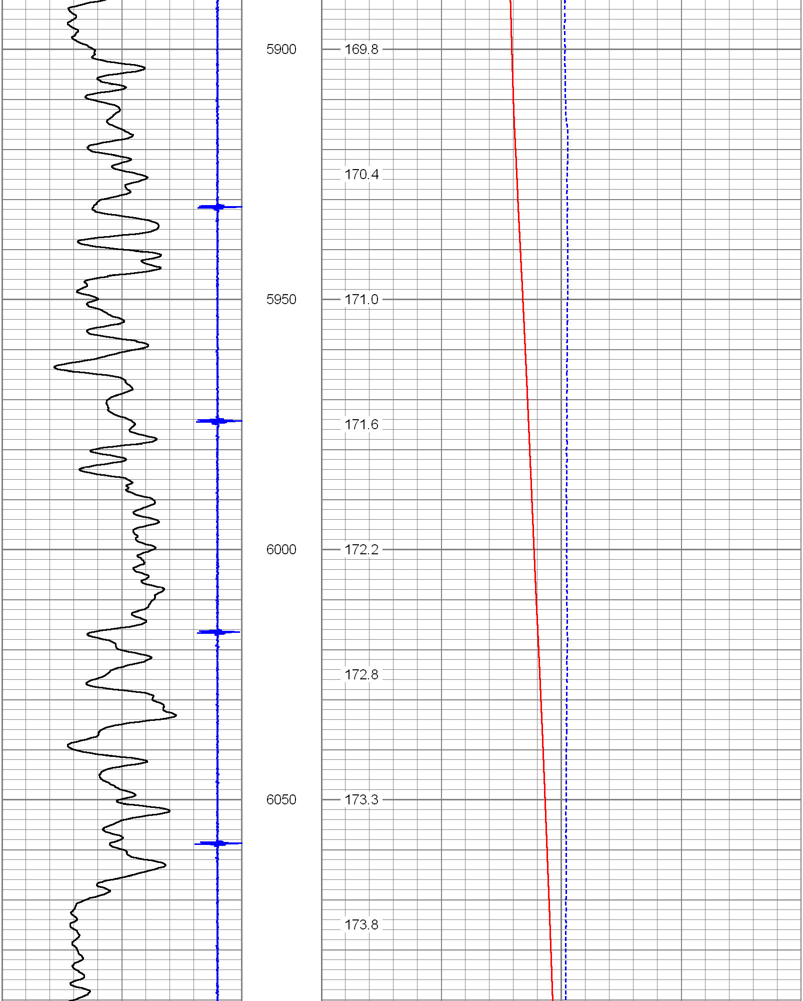
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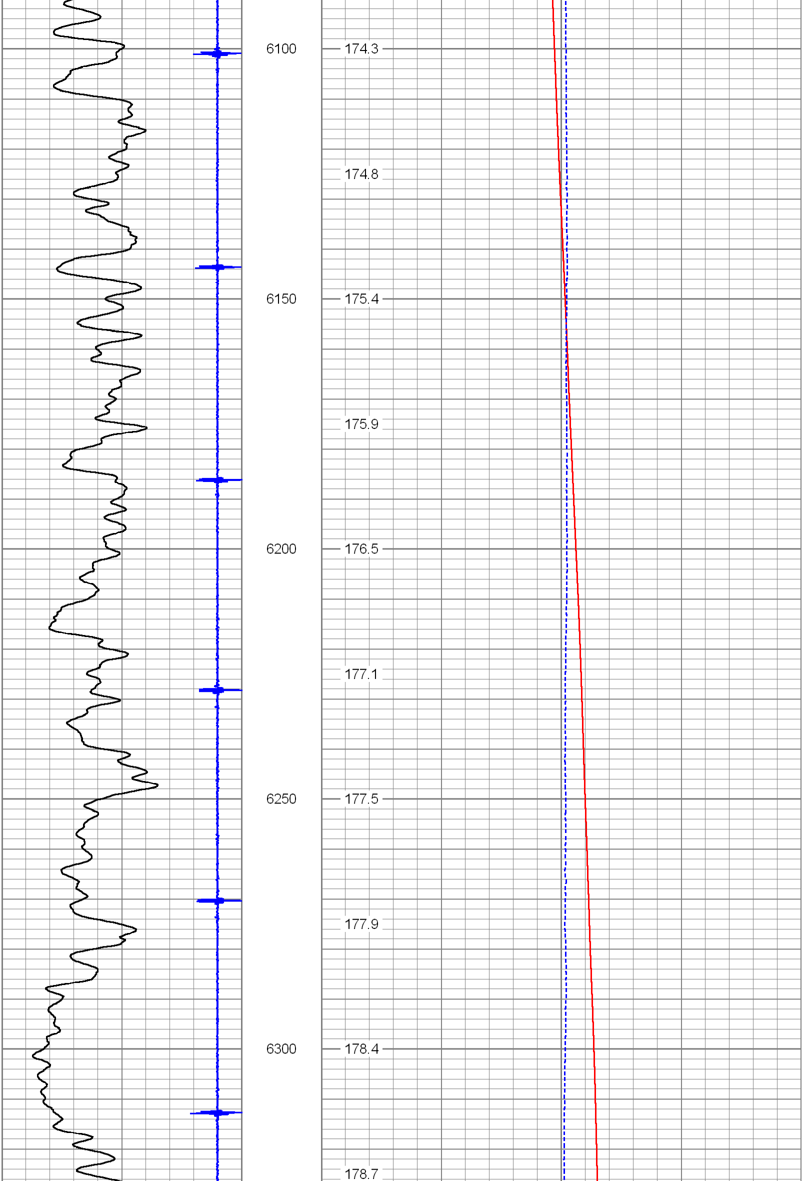
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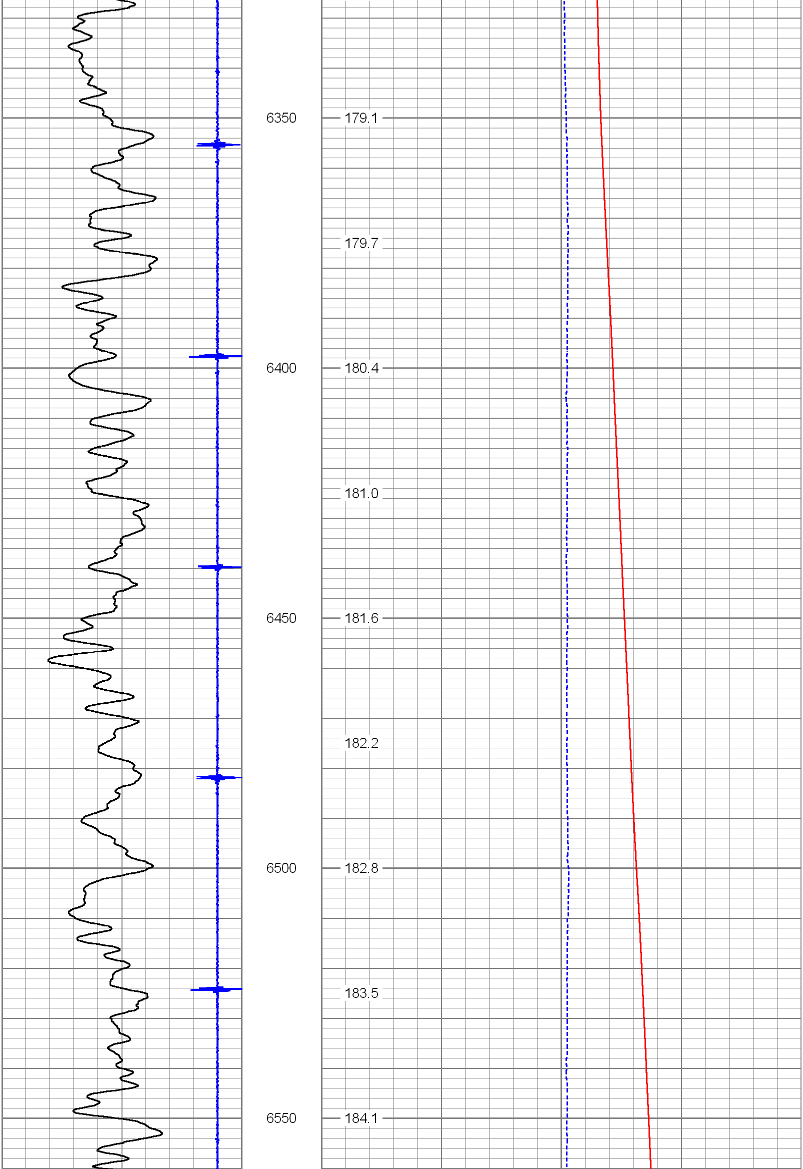
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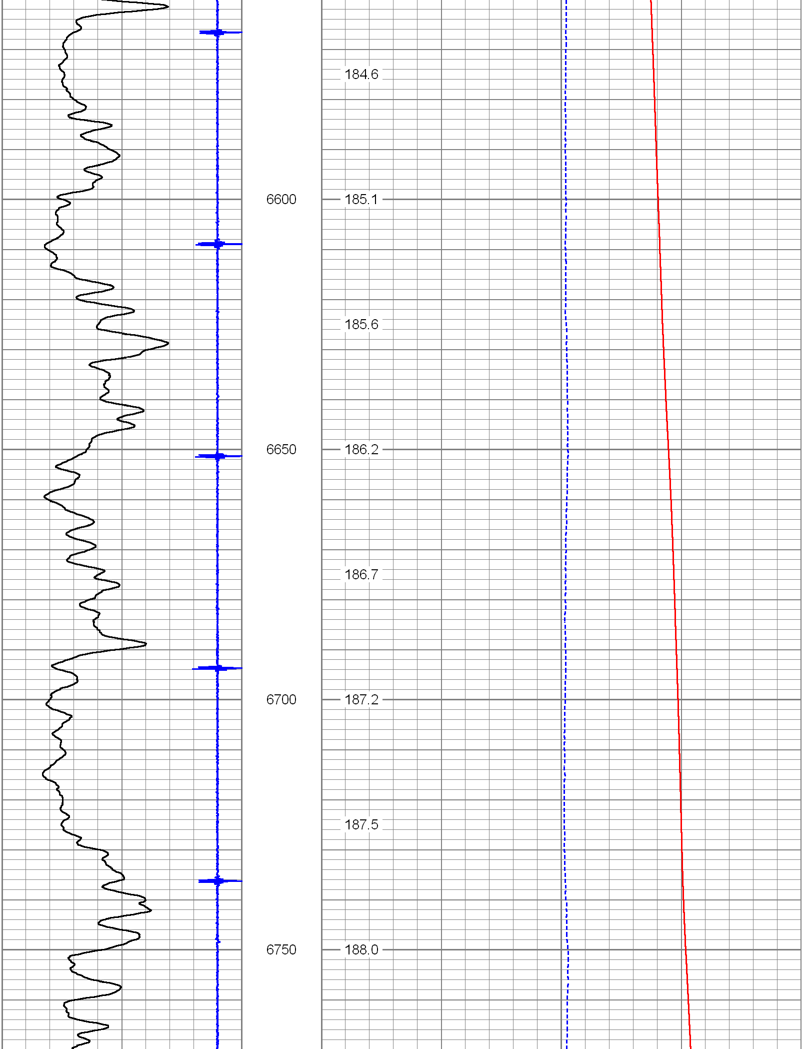
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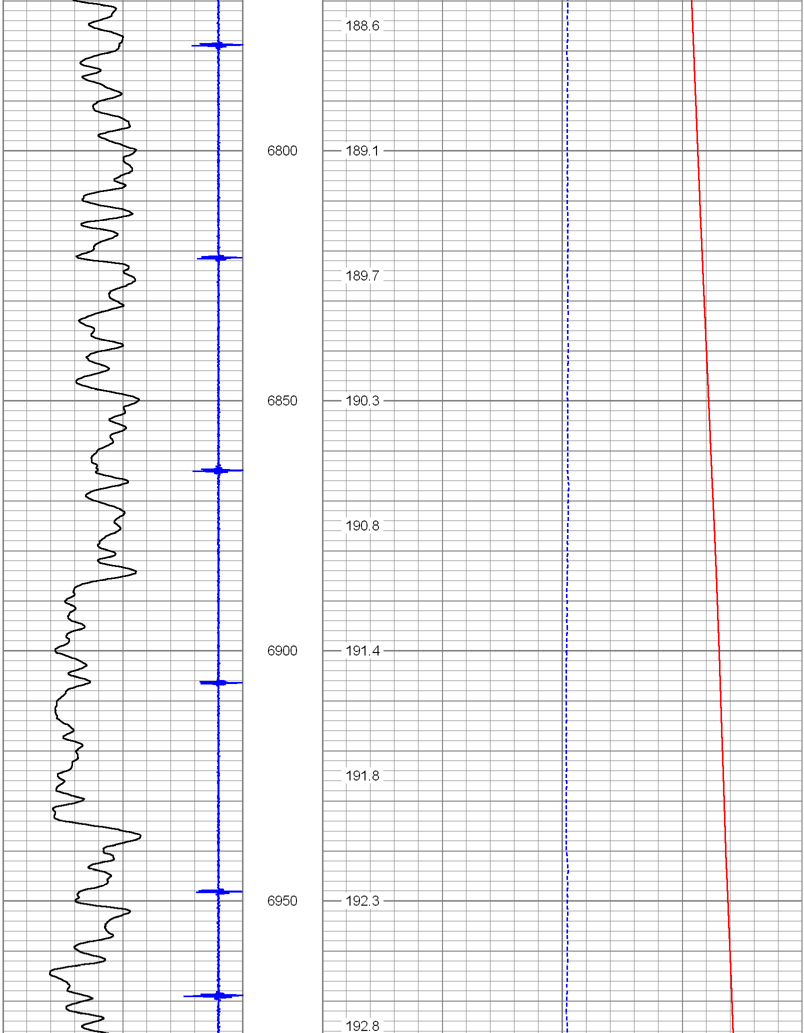
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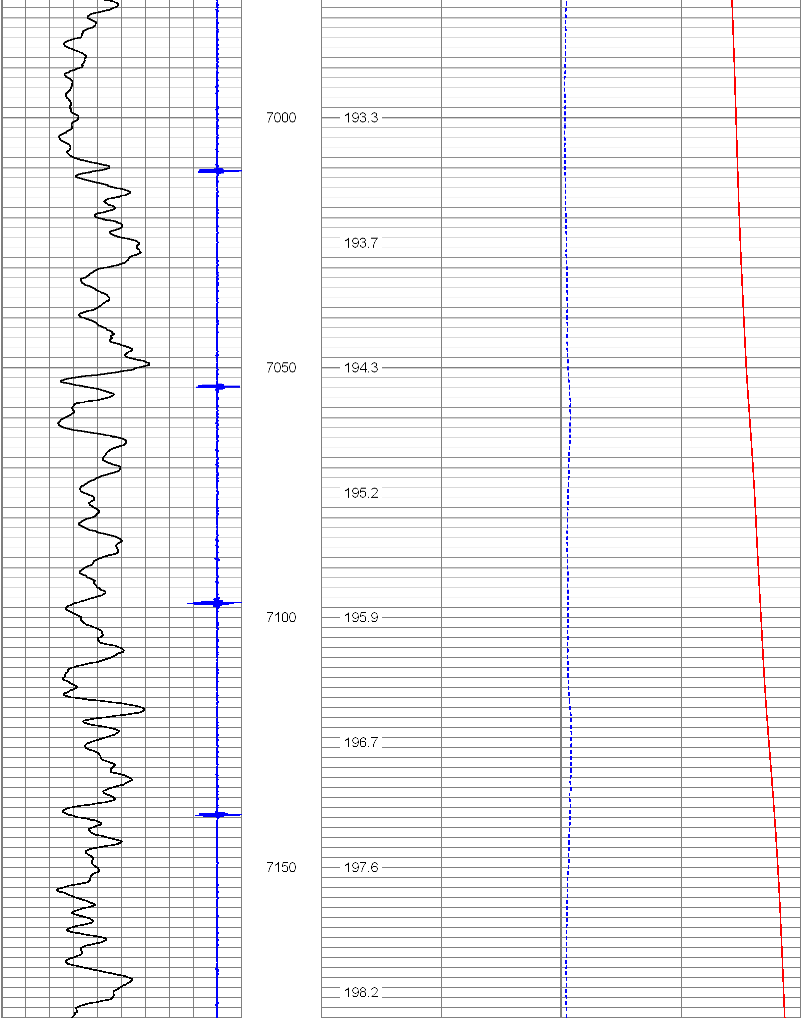

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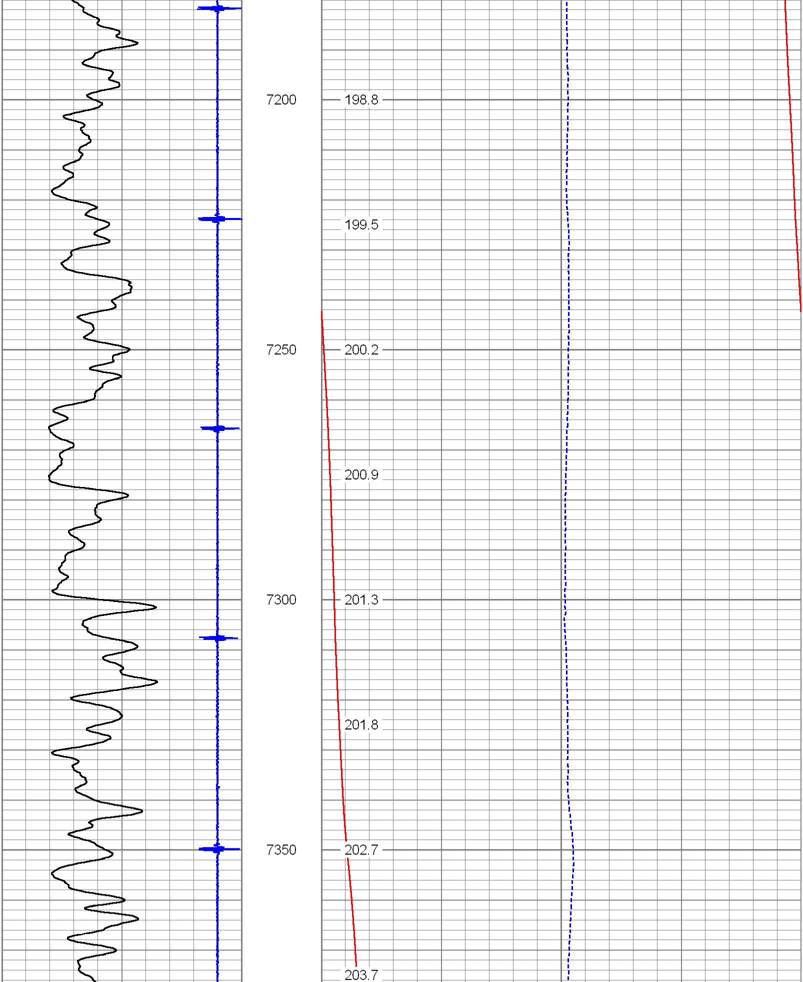
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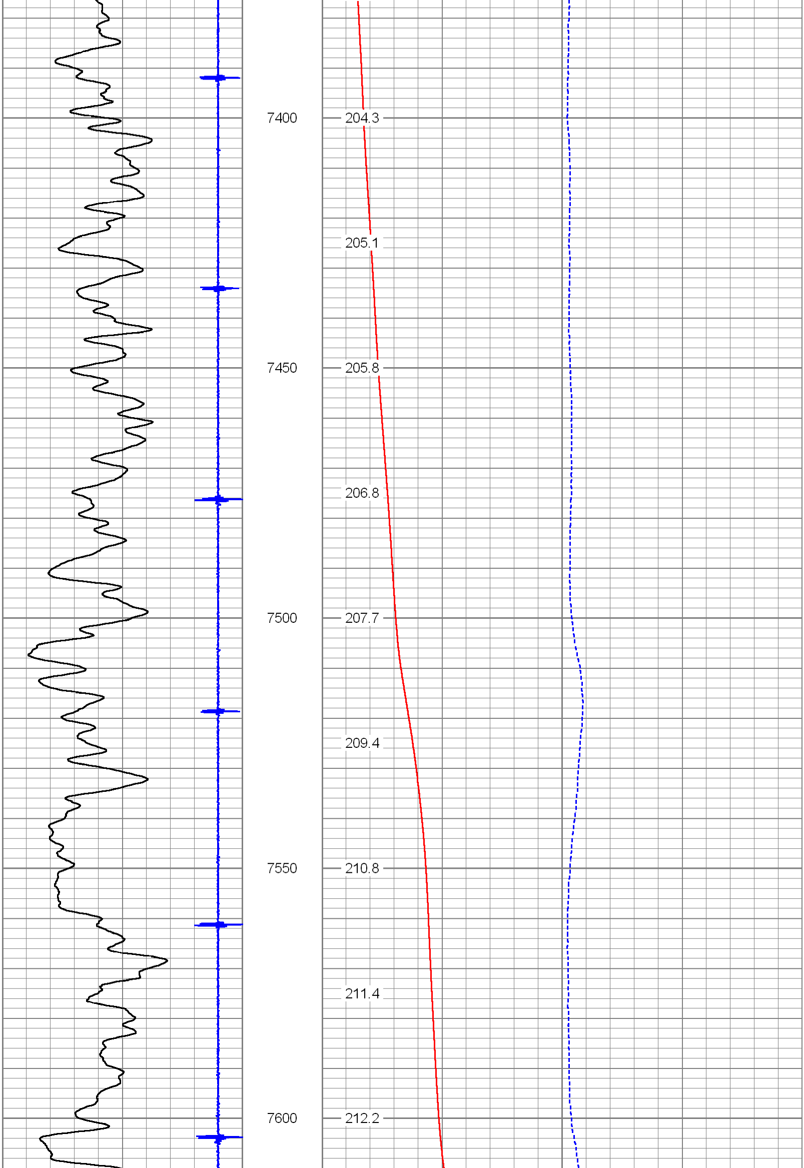
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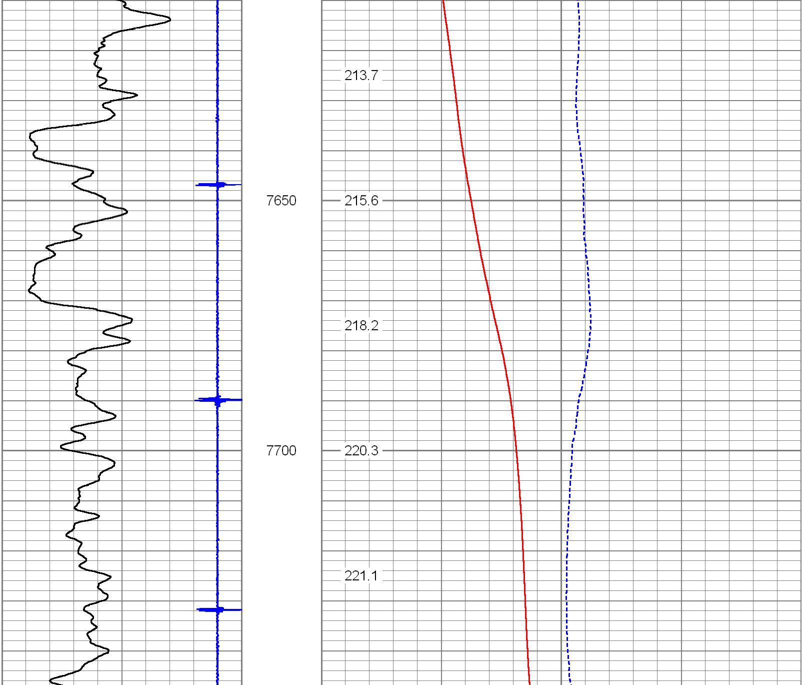
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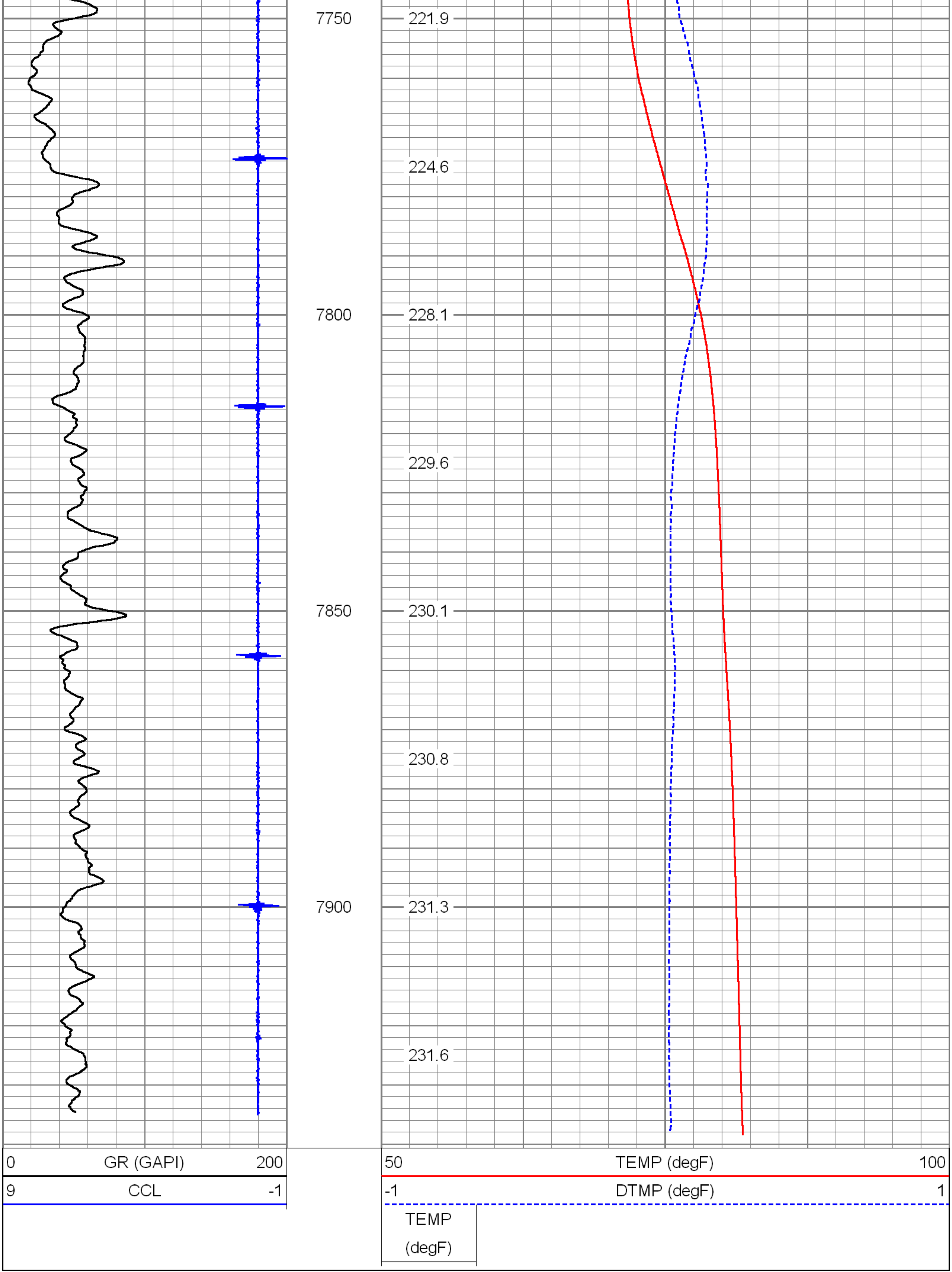


HALLIBURTON

MAIN LOG SECTION

5" = 100'

Calibration Report

Database File: bruton_30_8b_cbl2.db
Dataset Pathname: 5_2/TEMP
Dataset Creation: Mon May 02 13:32:36 2011

Temperature Calibration Report

Serial Number: 0001
Tool Model: 1.375TEMP
Performed: Fri Jul 05 03:18:21 1996

	Reference		Reading	
Low Reference:	0.00	degF	0.00	cps
High Reference:	1.00	degF	1.00	cps

Gain: 0.10
Offset: 0.00
Delta Spacing 1

Gamma Ray Calibration Report

Type / Serial: Probe / 061015

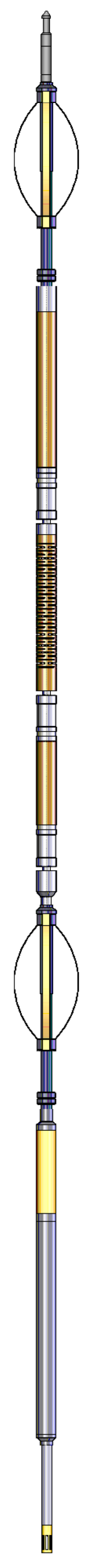
SHOP CALIBRATION	Mon May 02 07:36:50 2011				
	Counts/Sec.	Gain	Offset	Jig	Units
Background	50.8				cps
Calibrator	295.4				cps
		0.9934			GAPI/cps
PRIMARY VERIFICATION	Mon May 02 07:39:02 2011				
Background	51.5				cps
Calibrator	290.3				cps
Difference				238.8	GAPI
BEFORE SURVEY VERIFICATION					
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: 080544
Tool Model: Probe
Performed: Mon May 02 07:51:58 2011

Depth: 246.018 ft
Casing Diameter: 4.5 in

	3' Spacing	5' Spacing	
Signal Zero:	1	1	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.000976563	0.00131836	V
Reading in Free Pipe:	1.74688	1.47192	V
Gain:	45.934	54.5327	
Offset:	0.955143	0.928106	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STND_CH 1.4375 IN CABLE HEAD	1.02	1.44	2.00
			CENT-Probe (PT_MONO2) Probe 2 3/4 Centralizer	2.88	2.75	35.00
WVF3 WVF5	13.34 12.34		CBL-Probe (080544) Probe 2.75" Dual Receiver Bond	8.75	2.75	108.00
			CENT-Probe (PT_MONO2) Probe 2 3/4 Centralizer	2.88	2.75	35.00
CCL	5.50					
GR	4.08		GR-Probe (061015) Probe 2.75" 4 Channel Pulse	4.77	2.75	60.00
TEMP LLMTEN	0.08 0.00		TEMP-1.375TEMP (0001) Temperature Tool	1.50	1.38	5.00

Dataset: bruton_30_8b_cbl2.db: field/well/5_2/TEMP
Total Length: 21.81 ft
Total Weight: 245.00 lb
O.D. 2.75 in

Company LARAMIE ENERGY II, LLC
Well BRUTON 30-8B
Field BRUSH CREEK
County MESA State CO

HALLIBURTON

TEMPERATURE
LOG