RADIAL SECTOR BOND LOG WITH GAMMA RAY/CCL

PIONEER
Pioneer Energy Services

Company CARRIZO NIOBRARA LLC.
Well SHULL 8-25-9-60
Field WILDCAT
County WELD State CO

Company	CARRIZO NIOBRARA LLC.		
Well	SHULL 8-25-9-60		
Field	WILDCAT		
County	WELD	State	CO
Location:	API # : 05-123-40496 SHL: 265' FSL & 1599' FEL SWSE SEC 25 TWP 9N RGE 60W	Other Services	NONE
Permanent Datum	GL	Elevation 4887'	Elevation K.B. 4904' D.F. 4904' G.L. 4887'
Log Measured From	KB		
Drilling Measured From	KB		

Date of Service	FEBRUARY 3, 2015
Run Number	1
Depth Driller or PBTD	10807'
Depth Logger	6240'
Bottom Log Interval	6240'
Top Log Interval	Surface
Open Hole Size	8.75"
Type Fluid	WBM
Fluid Level	135'
Fluid Density	906#
Max. Recorded Temperature	N/A
Max. Wellhead Pressure	0 PSI
Wellhead Connection	7"
Estimated Cement Top	NA
Unit Number	P-36
Wireline Size	7/16"
Location	FT. MORGAN
Recorded By	SHAUN STUMP
Witnessed By	BOB MCNEESE

	Size	Wt/Ft	Top	Bottom
Tubing Record	N/A	N/A	N/A	N/A
Surface Casing	N/A	N/A	N/A	N/A
Production Casing	7"	23#	SURFACE	6291'
Liner Record	N/A	N/A	N/A	N/A

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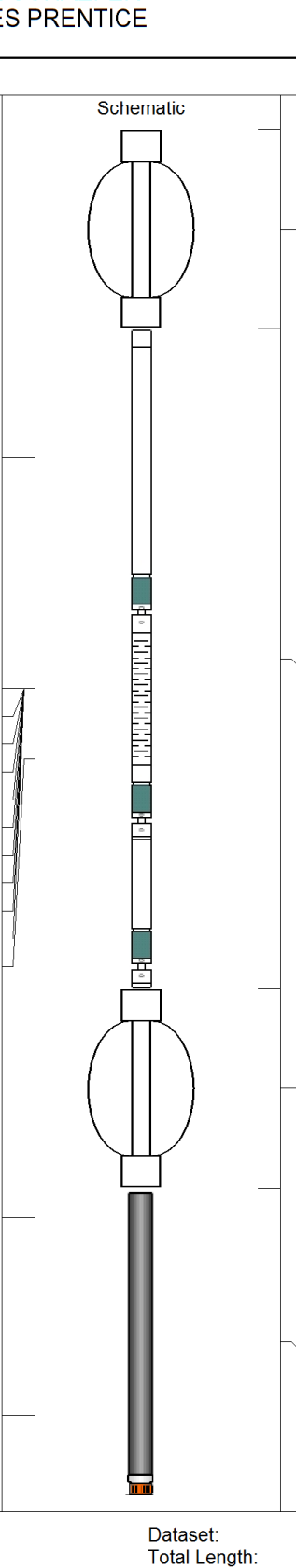
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
LOGGED UNDER 0 PSI
DEPTH CORRELATED TO 7" TALLY
XTREME RIG #19
THANK YOU FOR USING PIONEER ENERGY SERVICES
SO# 2-013953

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: SHAUN STUMP	PROBE RADII BOND	11206
Operator: DALE SCHAEFER	PROBE CCL/GAMMA	51013
Operator: JAMES PRENTICE		
Operator: NA		



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CENT #2 -A (1)	2.83	2.75	20.00
IntTemp	14.66				
		RBT-RBT-C3 (11206) Probe Radii Bond Tool with Digital Telemetry	9.33	2.75	90.00
WVF3FT	11.41				
WVFCAL	11.41				
WVFS1	11.41				
WVFS2	11.41				
WVFS3	11.41				
WVFS4	11.41				
WVFS5	11.41				
WVFS6	11.41				
WVFS7	11.41				
WVFS8	11.41				
WVF5FT	10.41				
		CENT-A (1)	2.83	2.75	20.00
CCL	3.92				
		GR-probe 2.75 (51013) proble Digital CCL Gamma	4.33	2.75	100.00
GR	1.13				

Dataset:	13953.db: field/well/run1/pass2
Total Length:	19.32 ft
Total Weight:	230.00 lb
O.D.	2.75 in

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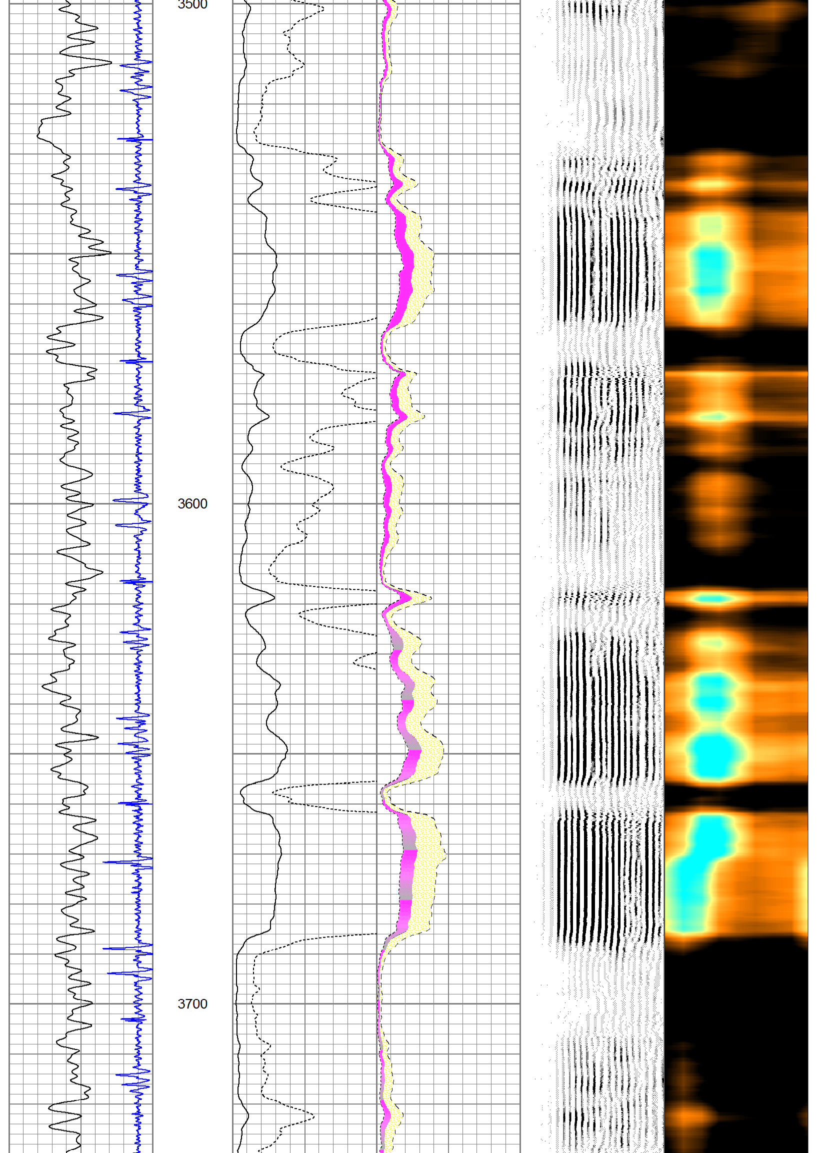
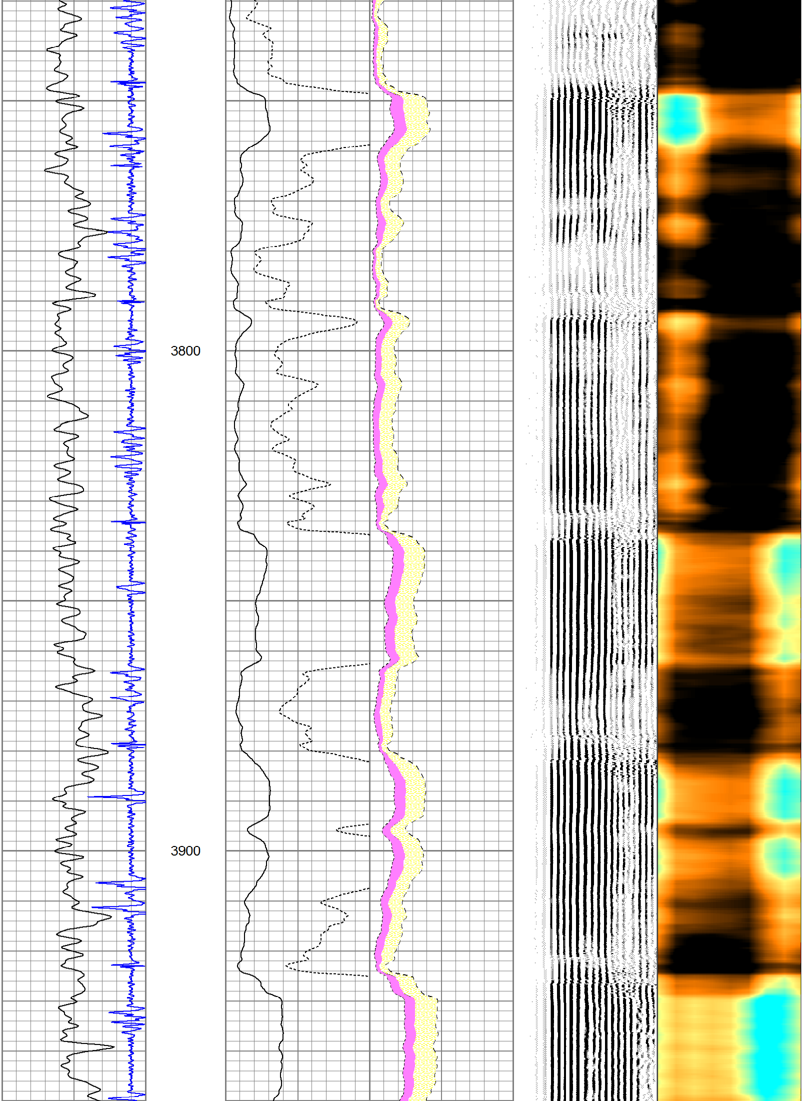
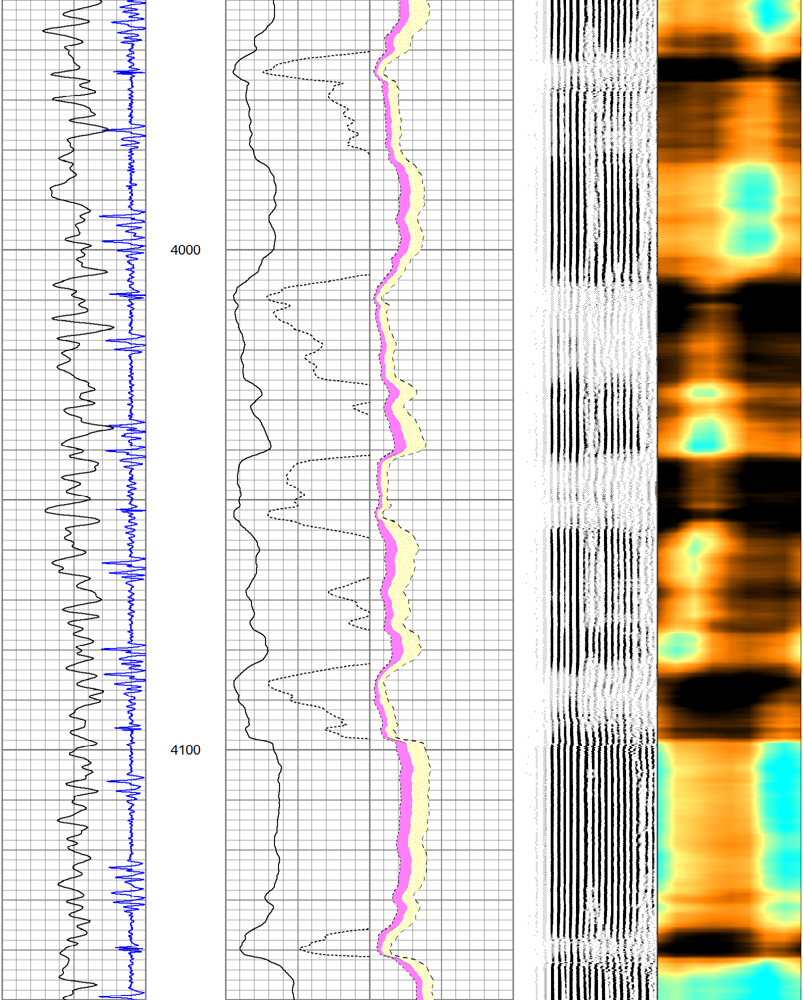
MAIN PASS

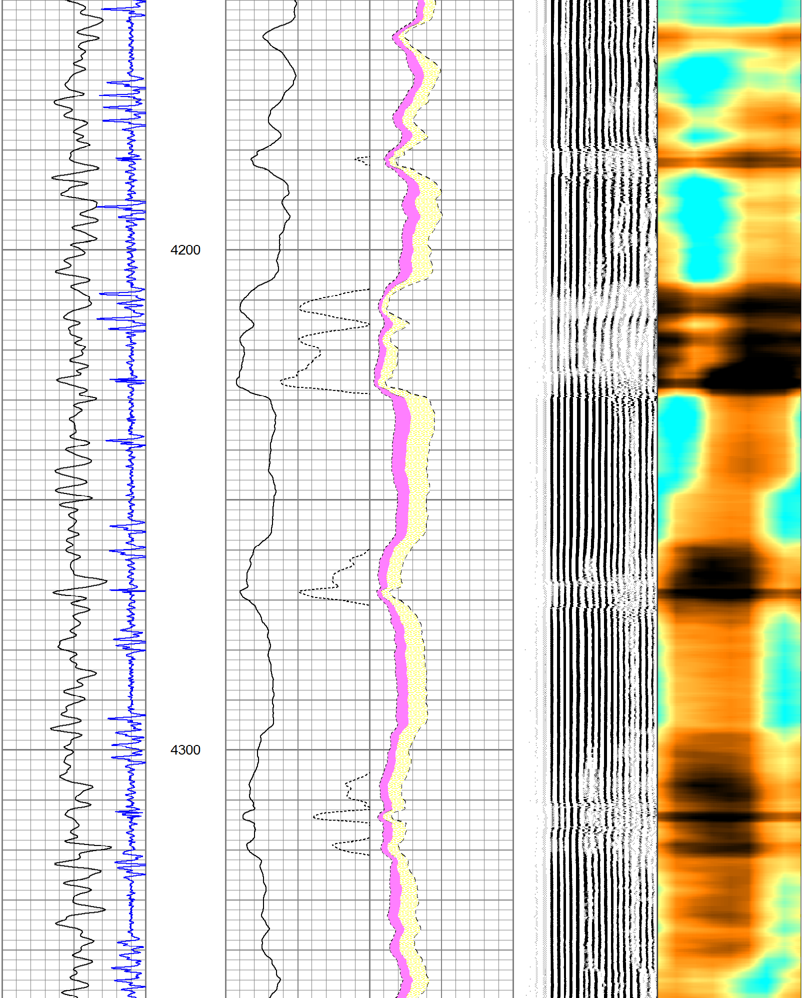
0 PSI ON WELL WHILE LOGGING

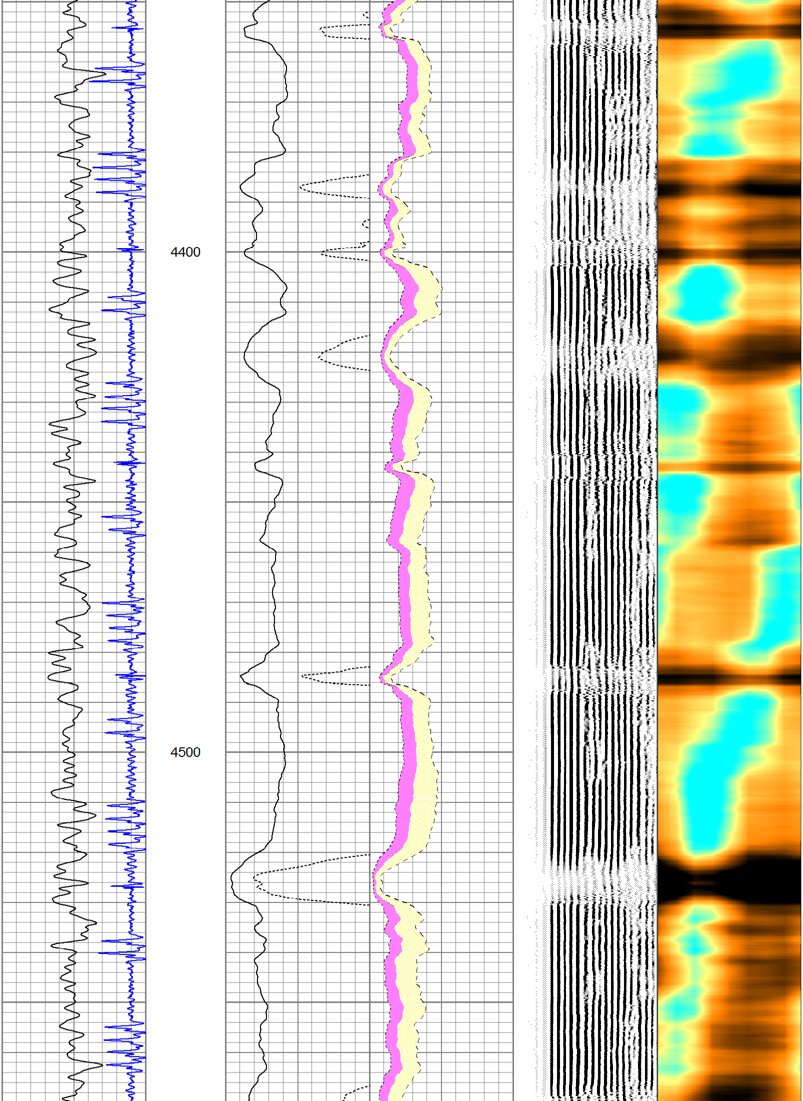
Database File:	13953.db
Dataset Pathname:	Final
Presentation Format:	scbl02
Dataset Creation:	Tue Feb 03 05:12:26 2015 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:240

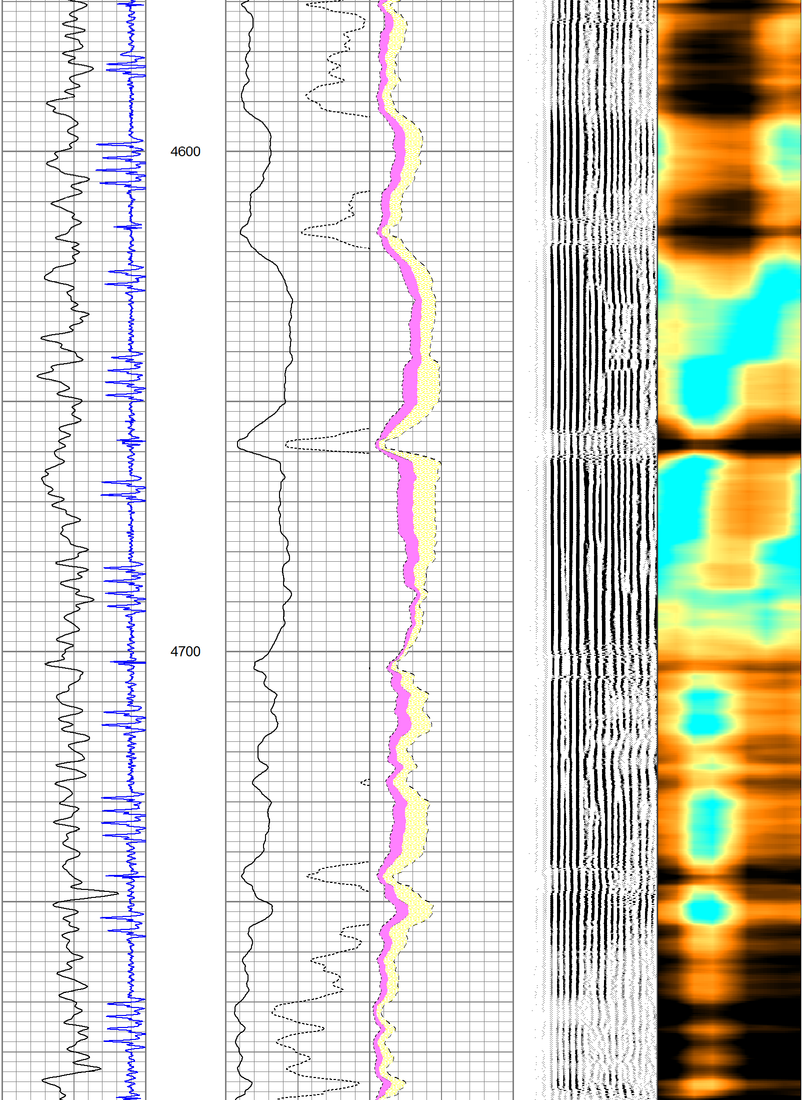


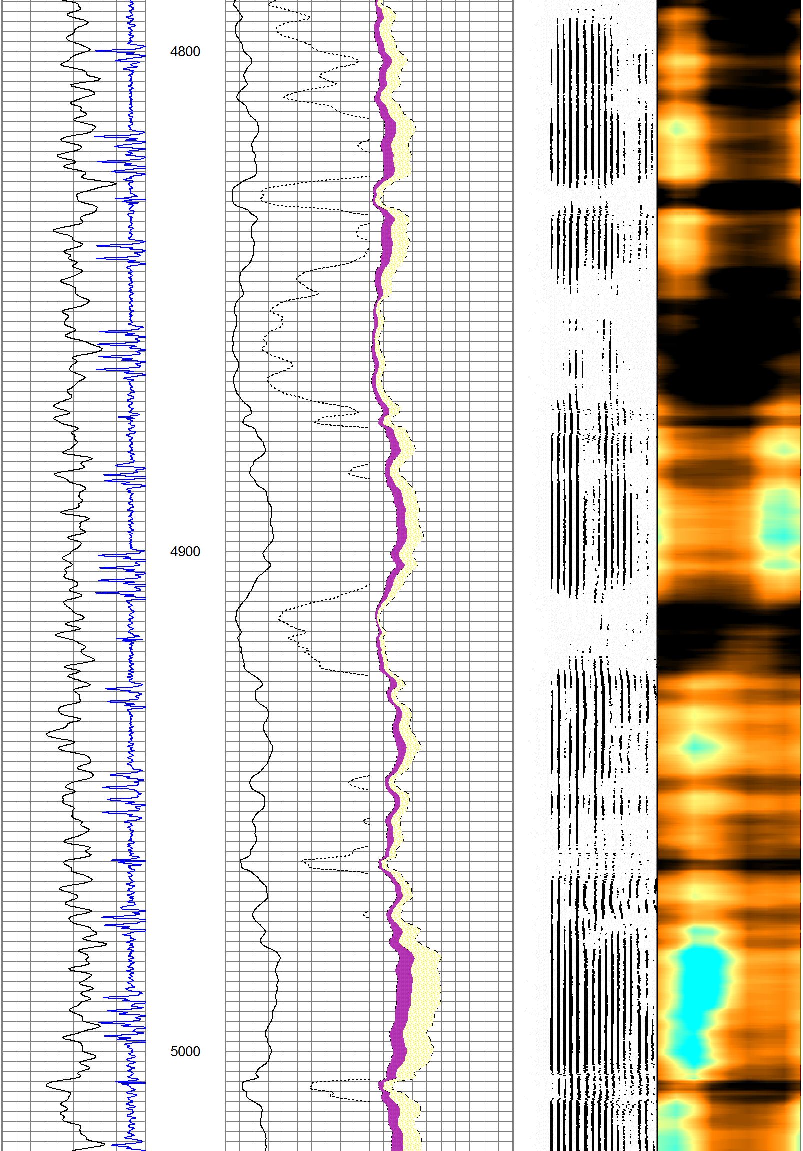


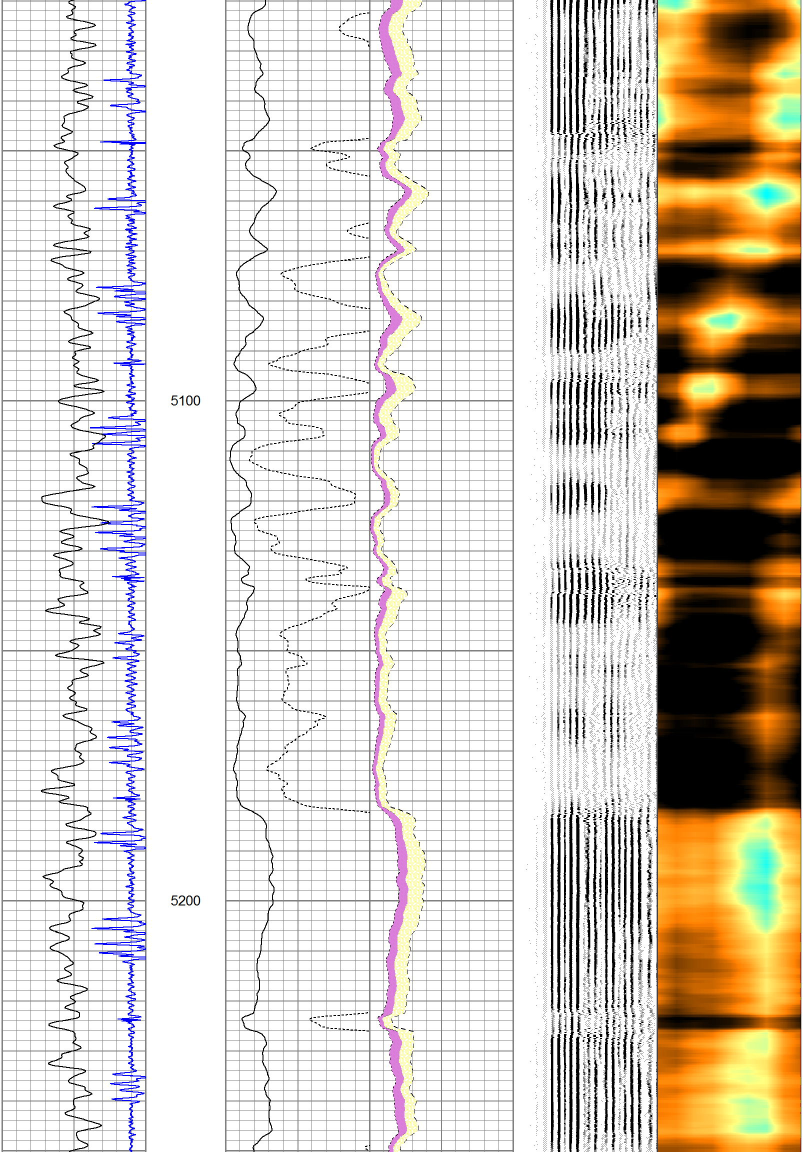


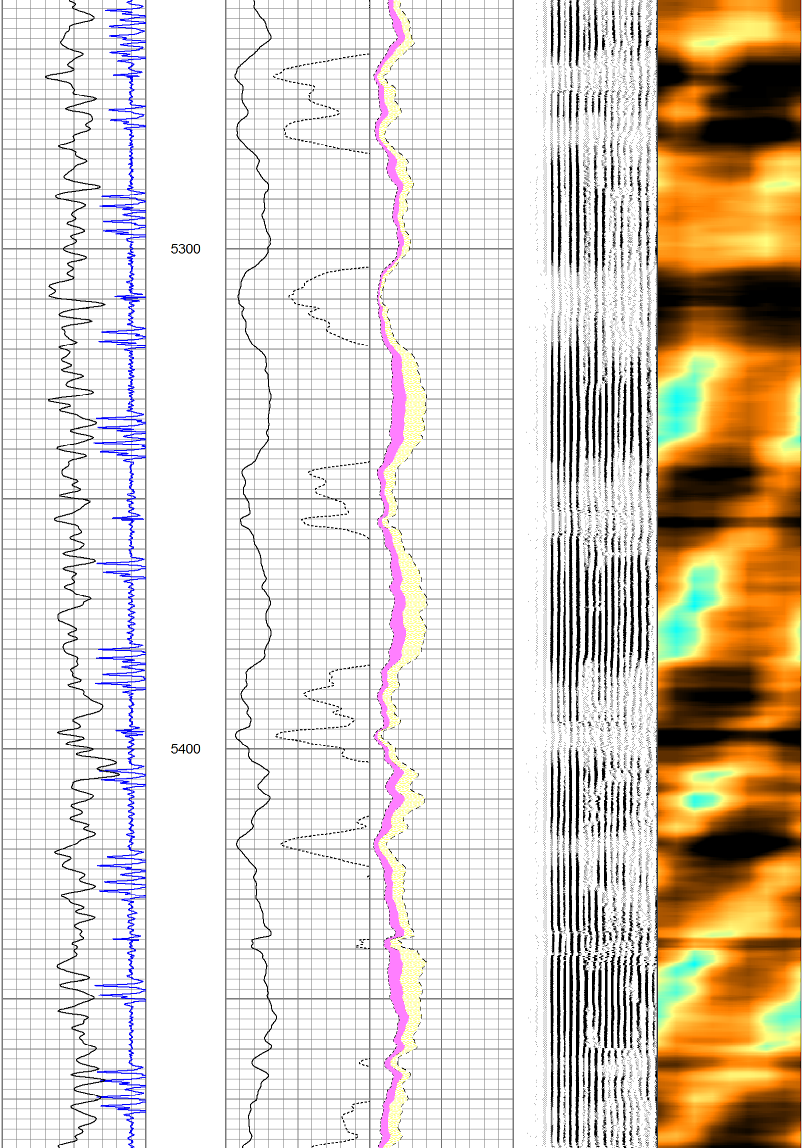


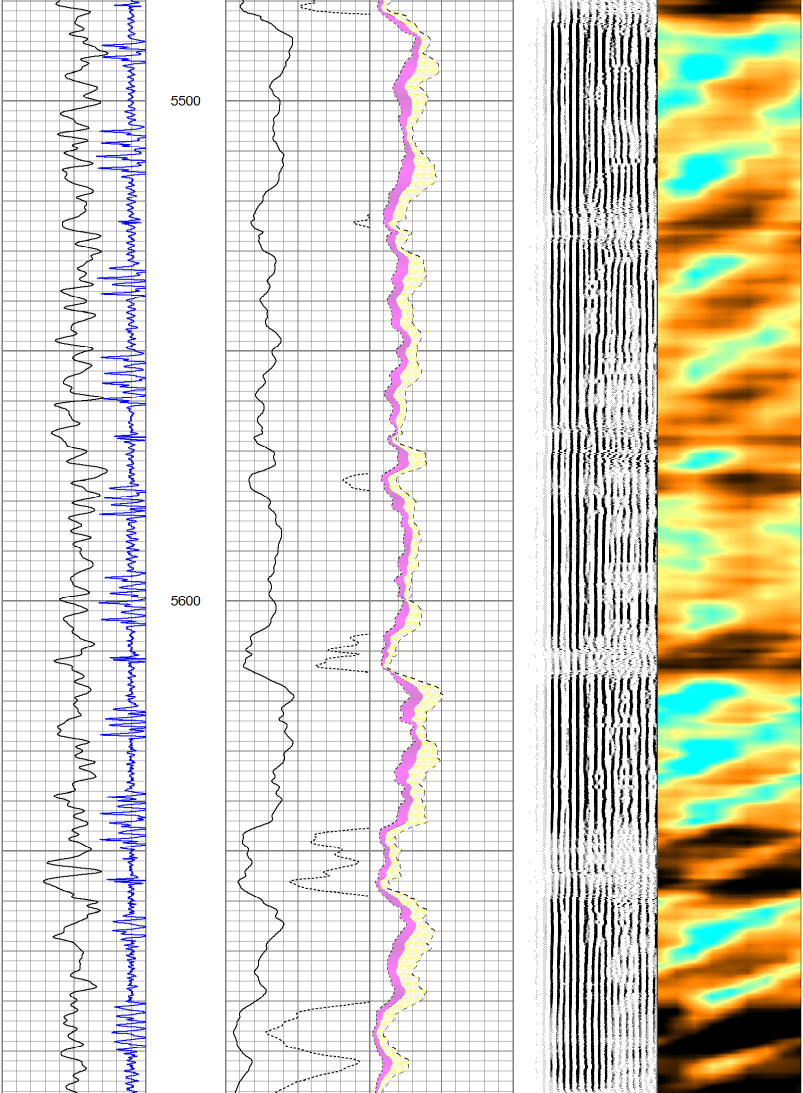


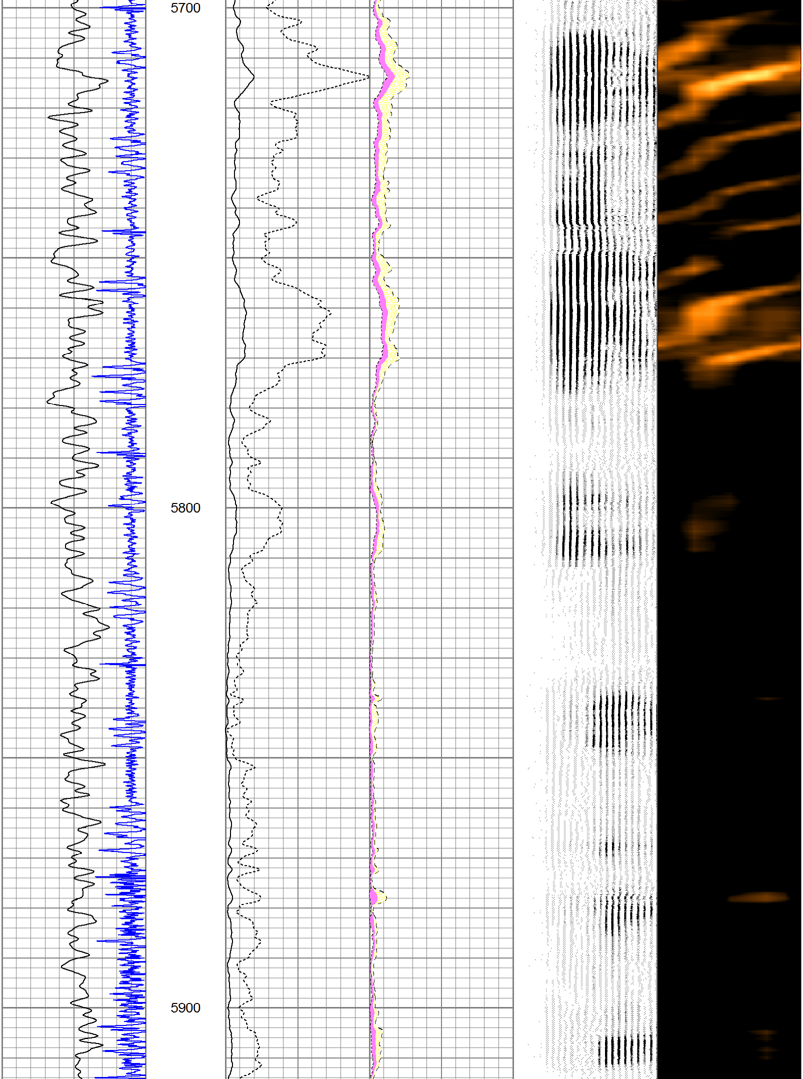


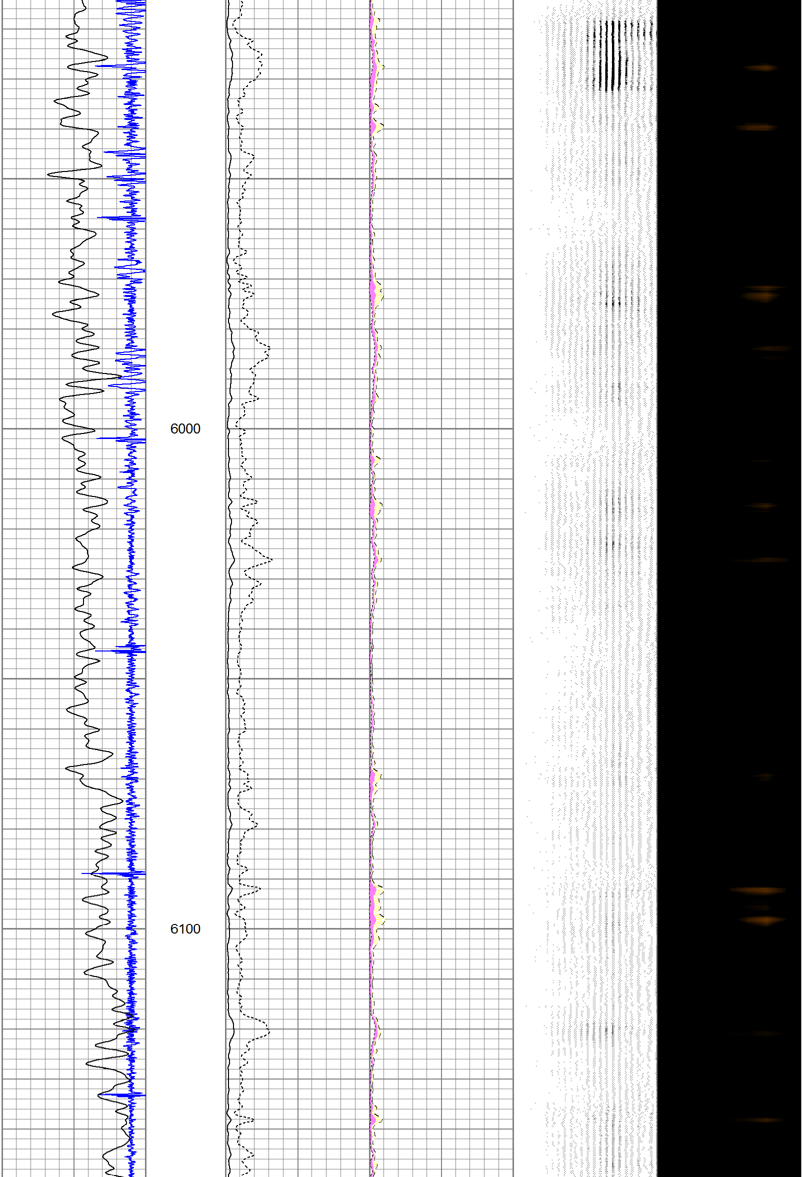


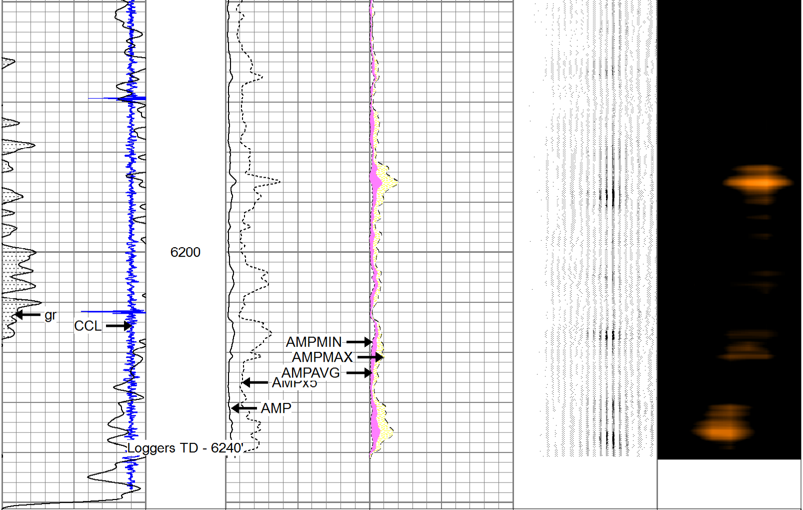












-9 CCL 1	0 AMP (mV) 100	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
0 GR (GAPI) 200	0 AMPx5 (mV) 20	0 AMPMAX 150		10 60
		0 AMPMIN 150		

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END OF MAIN PASS

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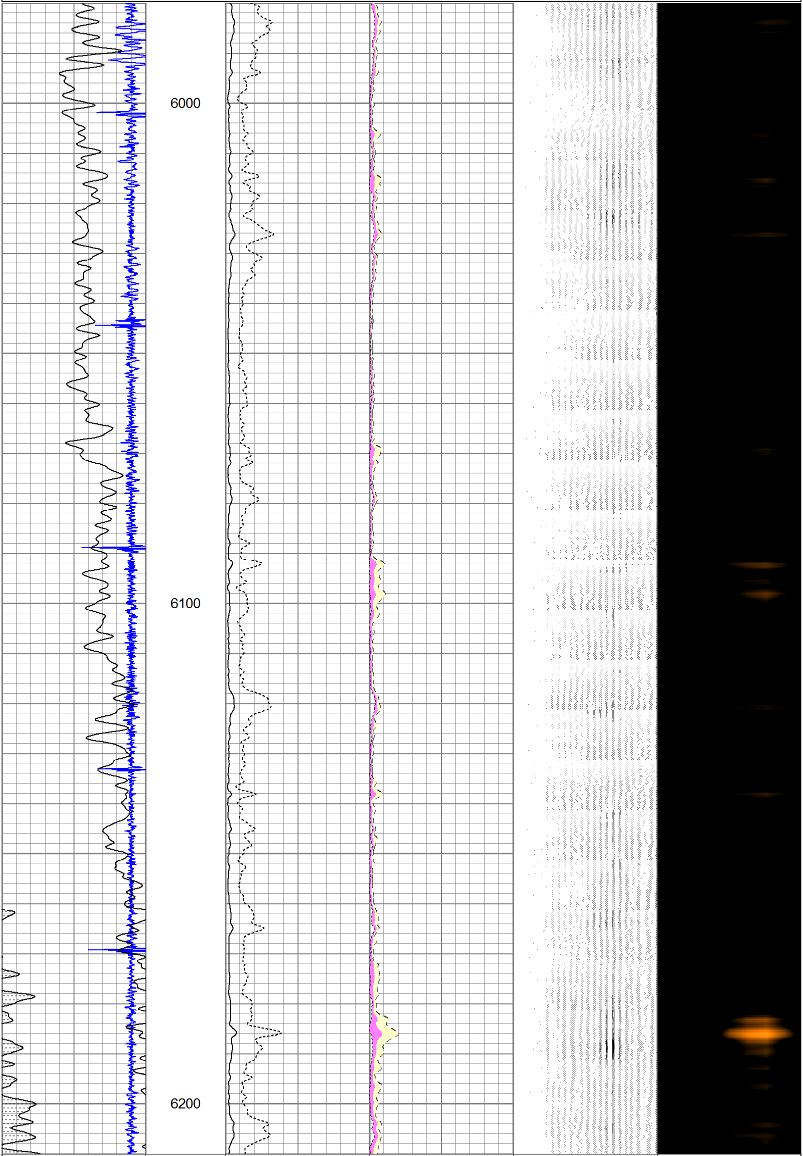
REPEAT SECTION

Database File:	13953.db
Dataset Pathname:	pass2.1
Presentation Format:	scbl02
Dataset Creation:	Tue Feb 03 05:08:12 2015 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:240

-9 CCL 1	0 AMP (mV) 100	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
0 GR (GAPI) 200	0 AMPx5 (mV) 20	0 AMPMAX 150		10 60
		0 AMPMIN 150		



-9 CCL 1	0 AMP (mV) 100	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
0 GR (GAPI) 200	0 AMPx5 (mV) 20	0 AMPMAX 150		10 60
		0 AMPMIN 150		

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END OF REPEAT

Calibration Report

Database File: 13953.db
Dataset Pathname: pass2
Dataset Creation: Tue Feb 03 04:11:08 2015 by Log Open-Cased 110302

Gamma Ray Calibration Report

Serial Number:	51013	
Tool Model:	probe 2.75	
Performed:	Fri Jan 30 06:09:47 2015	
Calibrator Value:	1400.0	GAPI
Background Reading:	26.8	cps
Calibrator Reading:	1120.0	cps
Sensitivity:	0.9000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	11206	
Tool Model:	RBT-C3	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	1042.512	ft

Master Calibration, performed Sun Feb 01 04:10:27 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.004	0.876	0.250	62.200	71.027	-0.045
CAL	0.001	0.882				
5'	0.030	0.848	0.250	62.200	75.708	-2.000
SUM						
S1	0.004	0.878	0.000	100.000	114.338	-0.402
S2	0.005	0.892	0.000	100.000	112.833	-0.601
S3	0.006	0.880	0.000	100.000	114.385	-0.644
S4	0.004	0.877	0.000	100.000	114.509	-0.449
S5	0.003	0.879	0.000	100.000	114.202	-0.342
S6	0.005	0.877	0.000	100.000	114.705	-0.543
S7	0.006	0.882	0.000	100.000	114.223	-0.706
S8	0.004	0.878	0.000	100.000	114.397	-0.480

Internal Reference Calibration, performed Fri Jan 30 08:10:19 2015:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.909	0.001	1.020	1.122	0.000

Air Zero Calibration, performed Fri Jan 30 07:19:30 2015:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
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

Company	CARRIZO NIOBRARA LLC.		
Well	SHULL 8-25-9-60		
Field	WILDCAT		
County	WELD	State	CO

RADIAL
SECTOR BOND LOG
WITH GAMMA RAY/CCL