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Pioneer Energy Services

CEMENT BOND LOG WITH GAMMA RAY

Company BONANZA CREEK
Well STATE ANTELOPE A11-U41-2HNC
Field STATE ANTELOPE B-2 PAD
Parish
State COLORADO

Company **BONANZA CREEK**
Well **STATE ANTELOPE A11-U41-2HNC**
Field **STATE ANTELOPE B-2 PAD**
Parish
State **COLORADO**

Location: API # : 05-123-41072-00
NW/NW
1320' FNL & 365' FWL
SEC 2 TWP 5N RGE 62W

Other Services

Permanent Datum G.L. Elevation 4647'
Log Measured From K.B.
Drilling Measured From K.B.

Elevation
K.B. 4664'
D.F.
G.L. 4647'

Date of Service	26-MARCH-2015
Run Number	ONE
Depth Driller or PBTD	11050'
Depth Logger	6490'
Bottom Log Interval	6490'
Top Log Interval	SURFACE
Open Hole Size	N/A
Type Fluid	FW
Fluid Level	SURFACE
Fluid Density	N/A
Max. Recorded Temperature	N/A
Max. Wellhead Pressure	N/A
Wellhead Connection	N/A
Estimated Cement Top	
Unit Number	29, BILLINGS MT
Wireline Size	1/4"
Location	COLORADO
Recorded By	J.BUSH
Witnessed By	MR.TIM JAYNE

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9.625"	36.00#	SURFACE	439'
Production Casing	7.00"	26.00#	SURFACE	6670'
Liner Record	4.50"	11.60#	6526'	TD

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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.

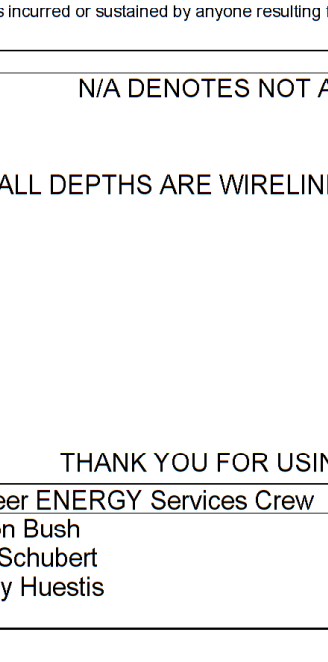
Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

ALL DEPTHS ARE WIRELINE MEASUREMENT TAKEN FROM 17' K.B.

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer ENERGY Services Crew	Tool Data - Services	Serial Number
Engineer: Jason Bush Operator: J.T. Schubert Operator: Dusty Huestis Operator:		



Sensor	Offset (ft)	Description	Length (ft)	O.D. (in)	Weight (lb
		CHD-STNDRD Titan 1 7/16" Cablehead	1.00	1.43	2.00
		cent-tit_small_2750_top Titan 2 3/4" Cent (Small)	2.17	2.75	15.00
Temp	13.27				
WVFS8	11.04	RBT-Probe RBL-T-Dig (FW1410-01) Probe 2.75" Radii T with Integral Temperature Sub	9.17	2.75	120.00
WVFS7	11.04				
WVFS6	11.04				
WVFS5	11.04				
WVFS4	11.04				
WVFS3	11.04				
WVFS2	11.04				
WVFS1	11.04				
WVFCAL	11.04				
WVF3FT	11.04				
WVF5FT	10.04				
HEADVOLT	6.79				
		cent-tit_small_2750_top Titan 2 3/4" Cent (Small)	2.17	2.75	15.00
CCL	3.64				
		GR-Probe GR/CCL Digital (275 Digital) Probe 2.75" GR/CCL 4 Channel Telemetry/Digital	4.63	2.75	30.00
GR	0.89				

Dataset: bonanza_creek_a11_u41_2hnc.db: field/well/cbl/pass1
Total length: 19.13 ft
Total weight: 182.00 lb
O.D.: 2.75 in

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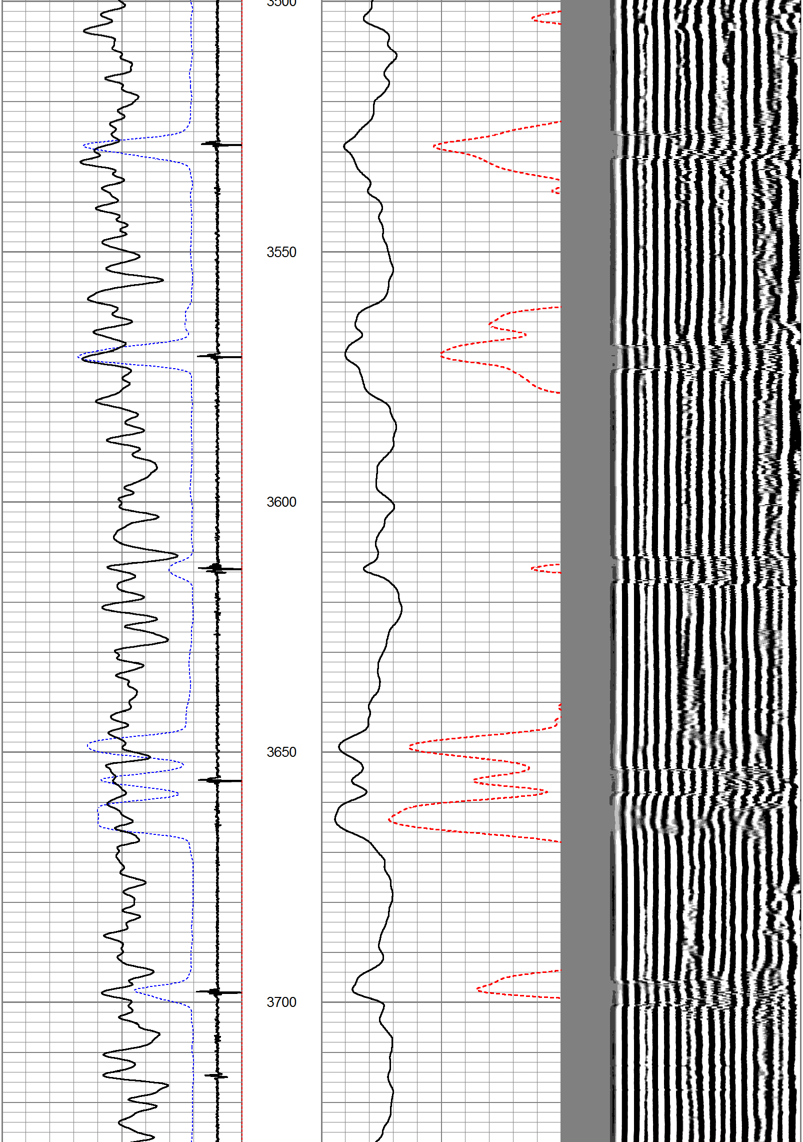
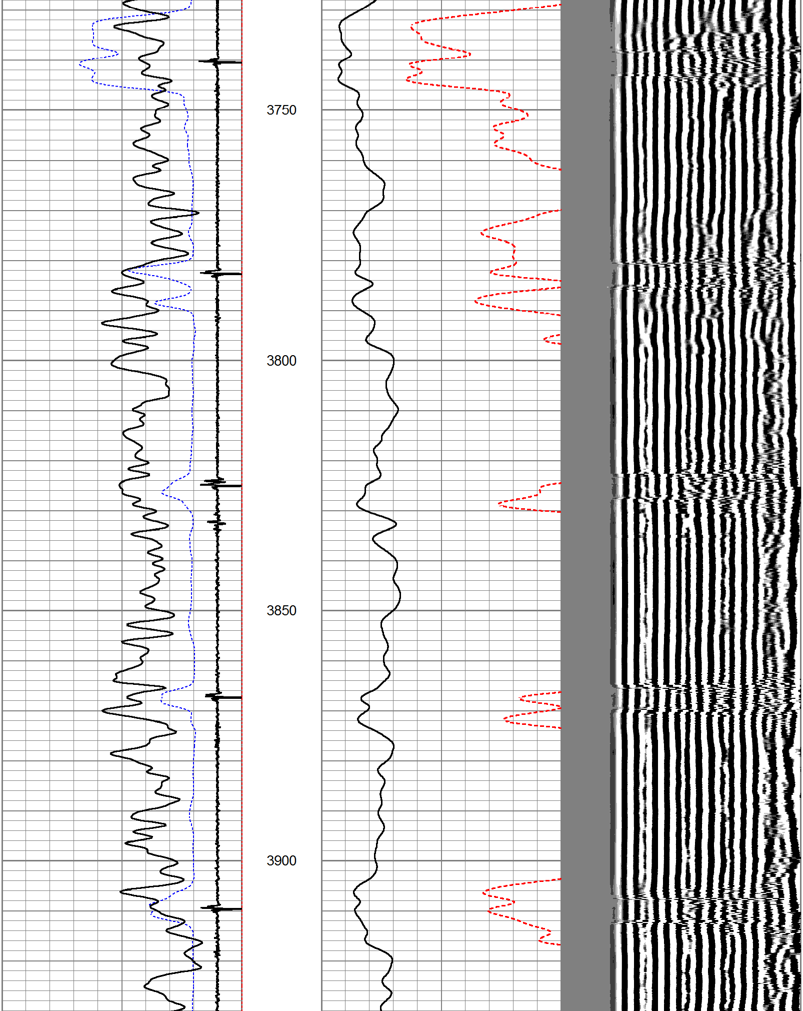
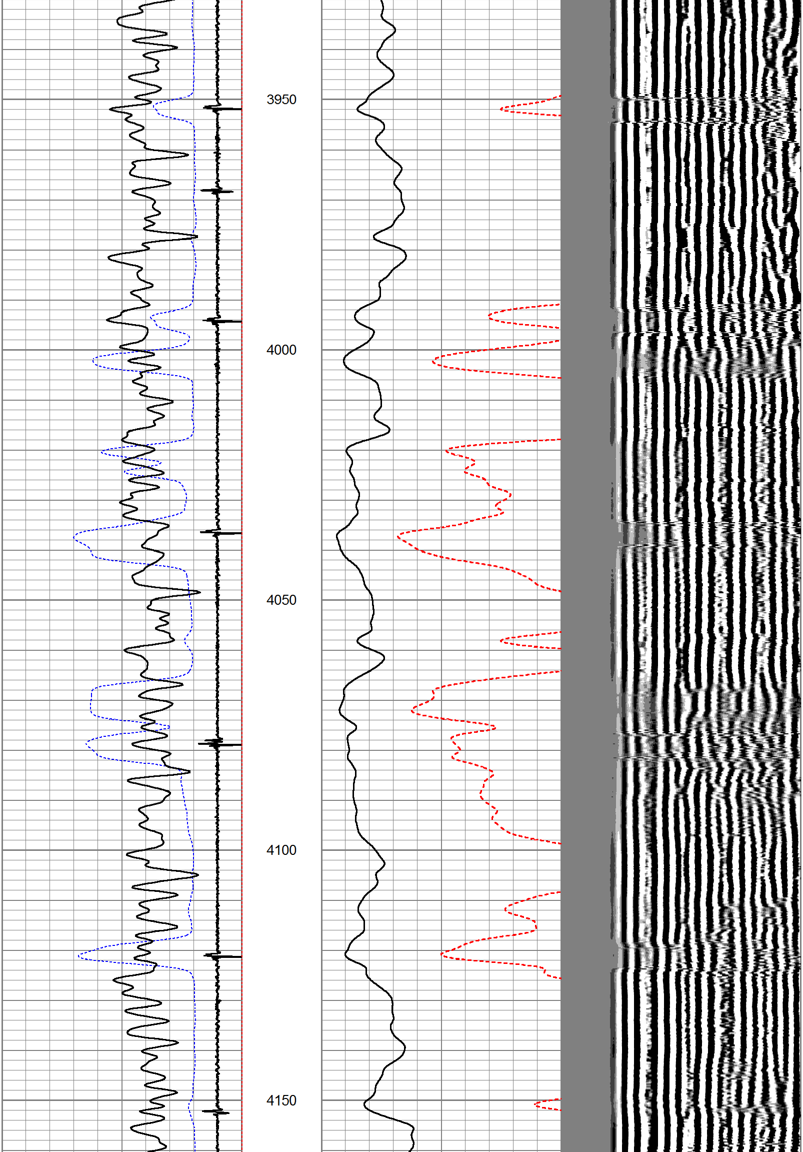
MAIN LOG

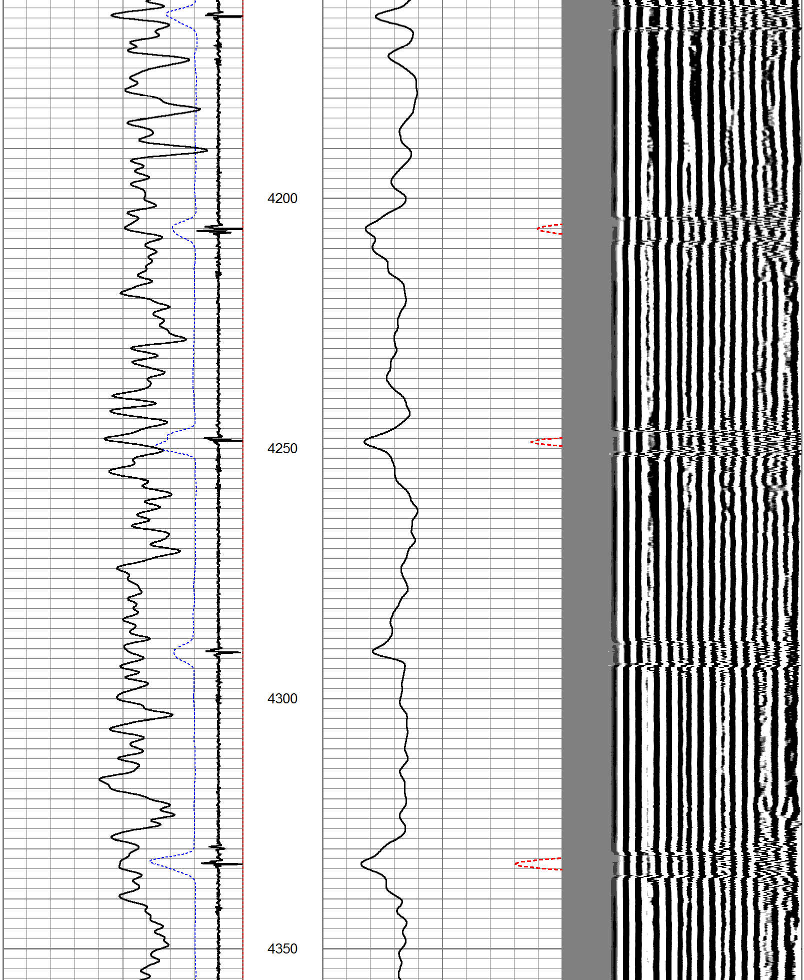
0 PSI APPLIED AT SURFACE

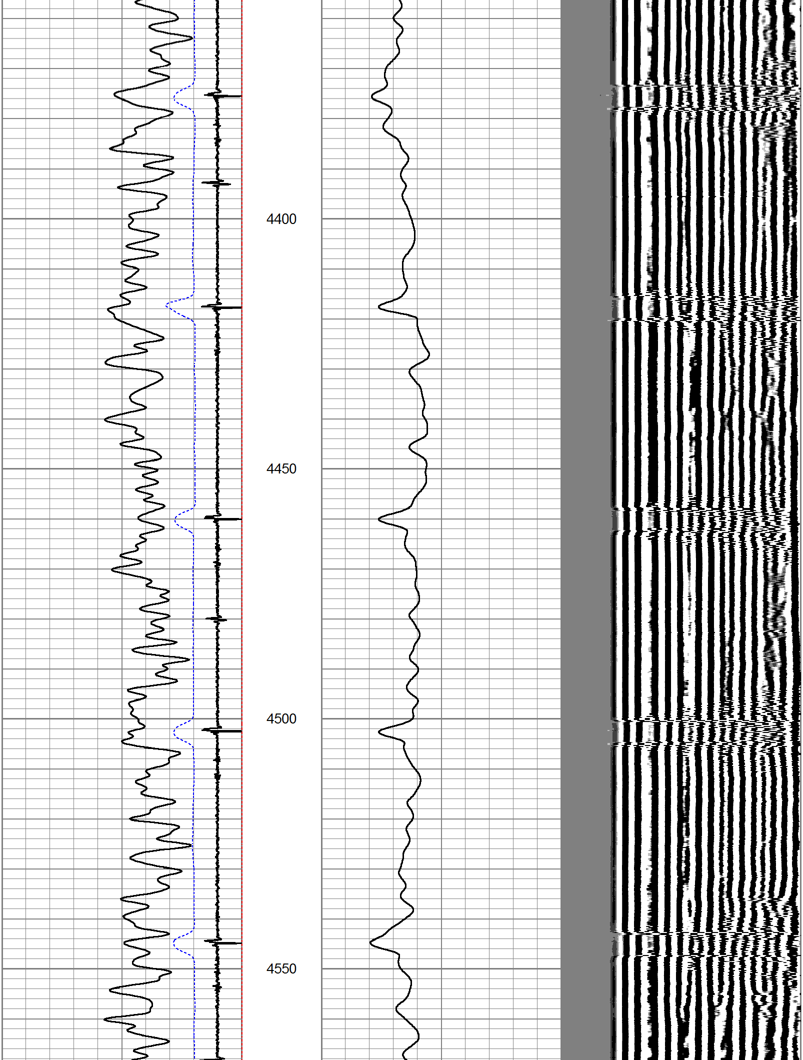
Database File	bonanza_creek_a11_u41_2hnc.db
Dataset Pathname	cbl/merge1
Presentation Format	pnr_cbl
Dataset Creation	Thu Mar 26 21:25:07 2015
Charted by	Depth in Feet scaled 1:240

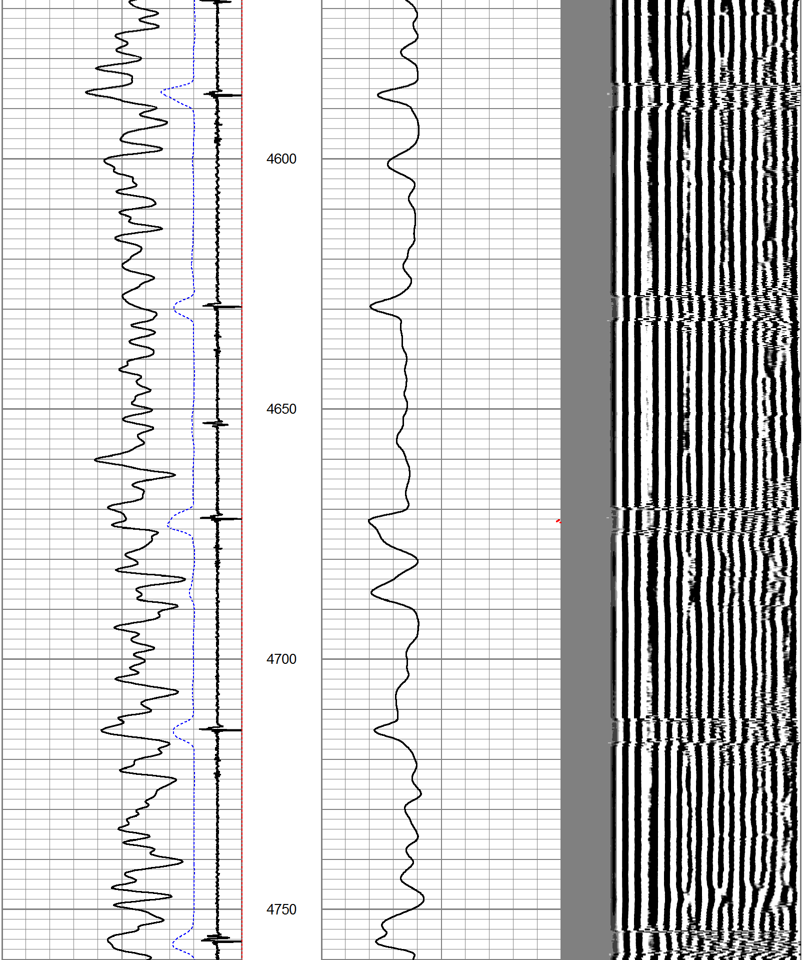


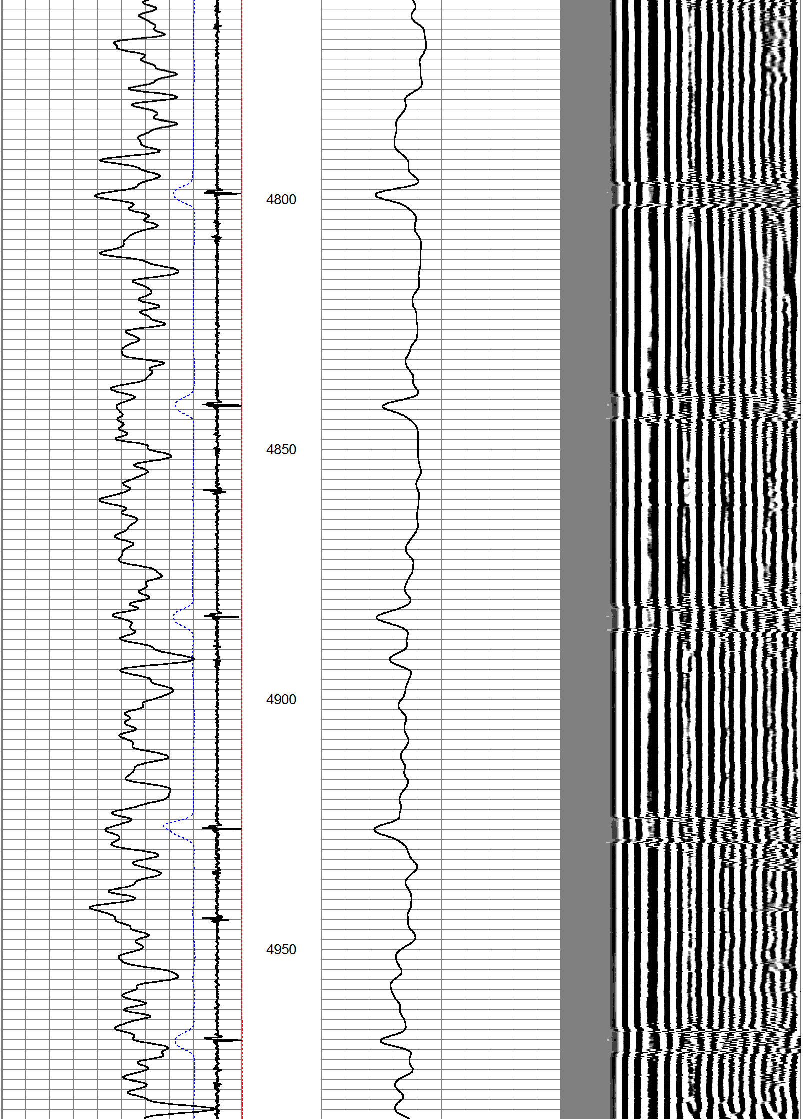


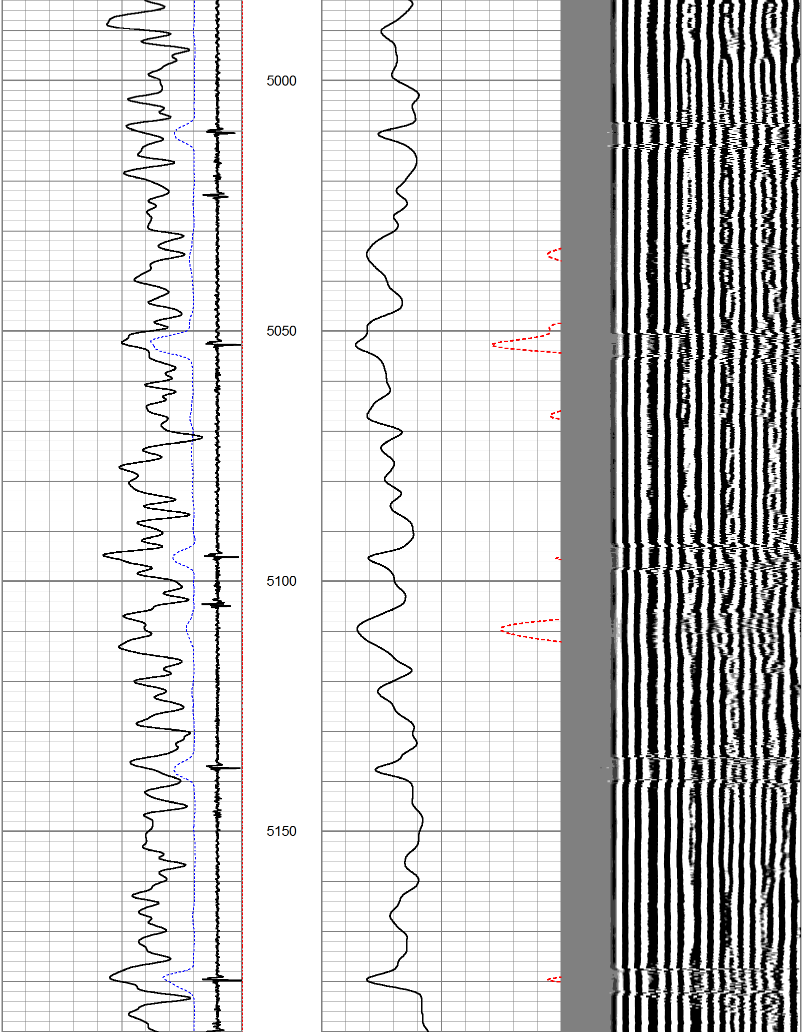


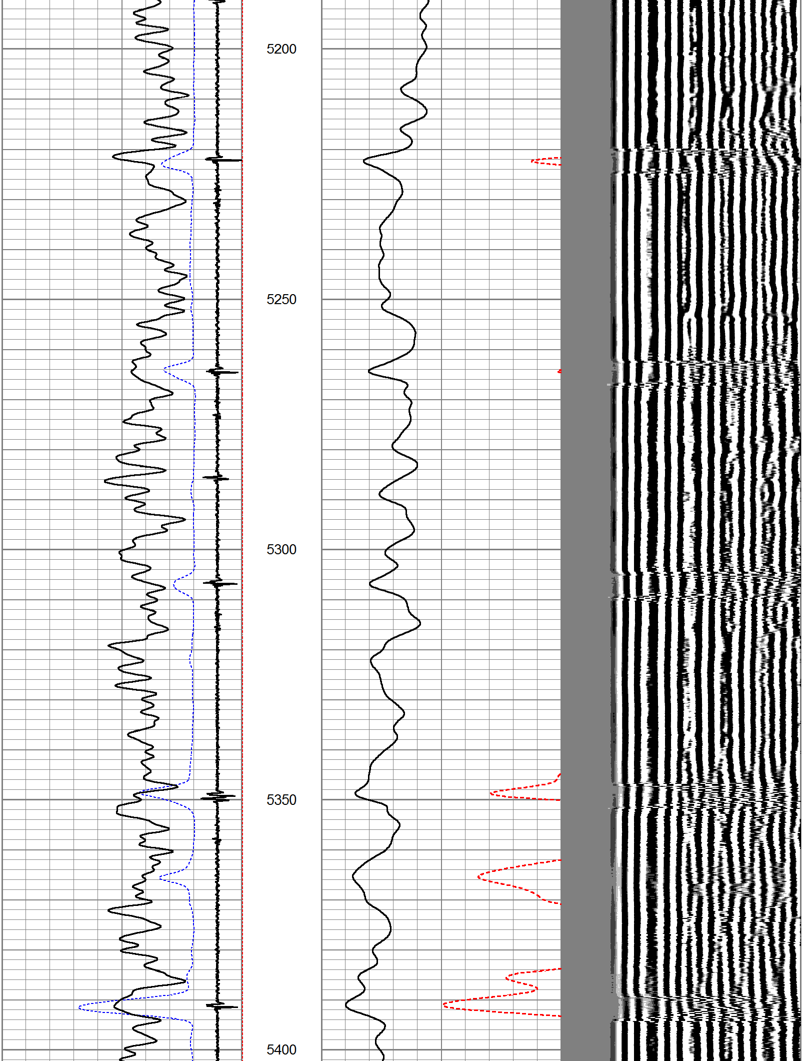


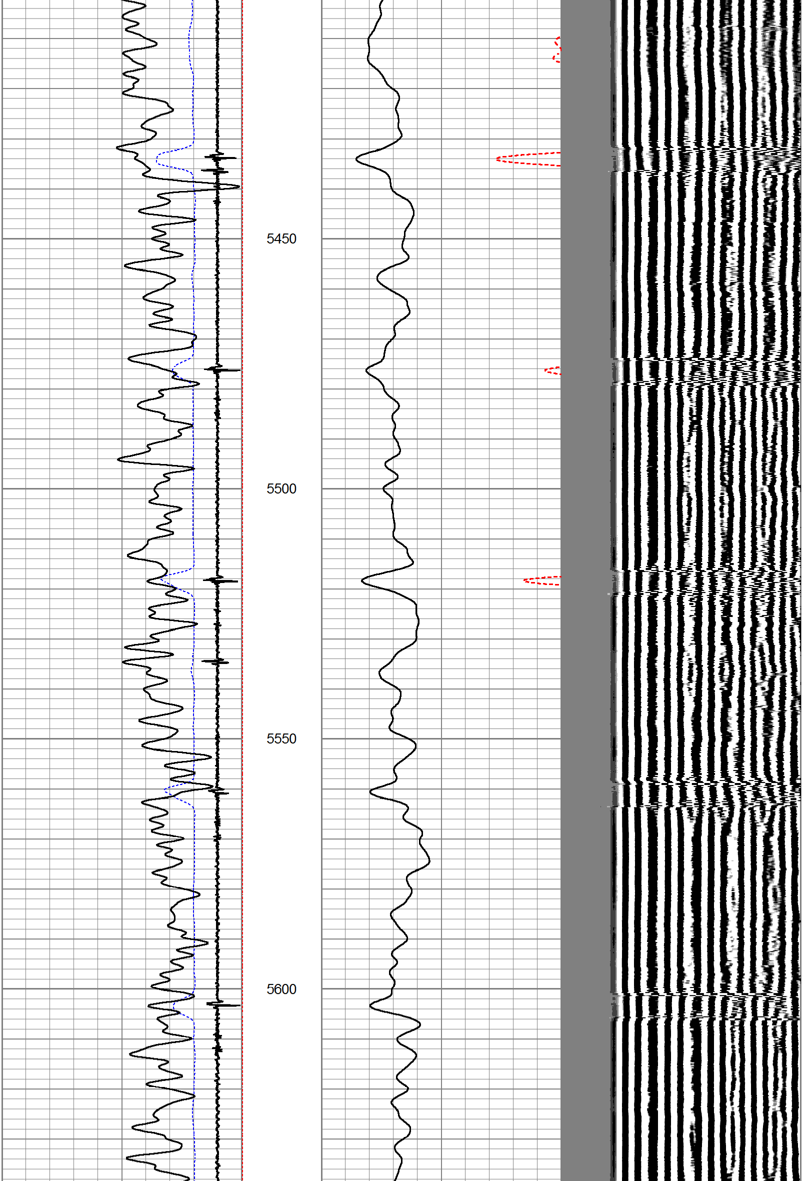


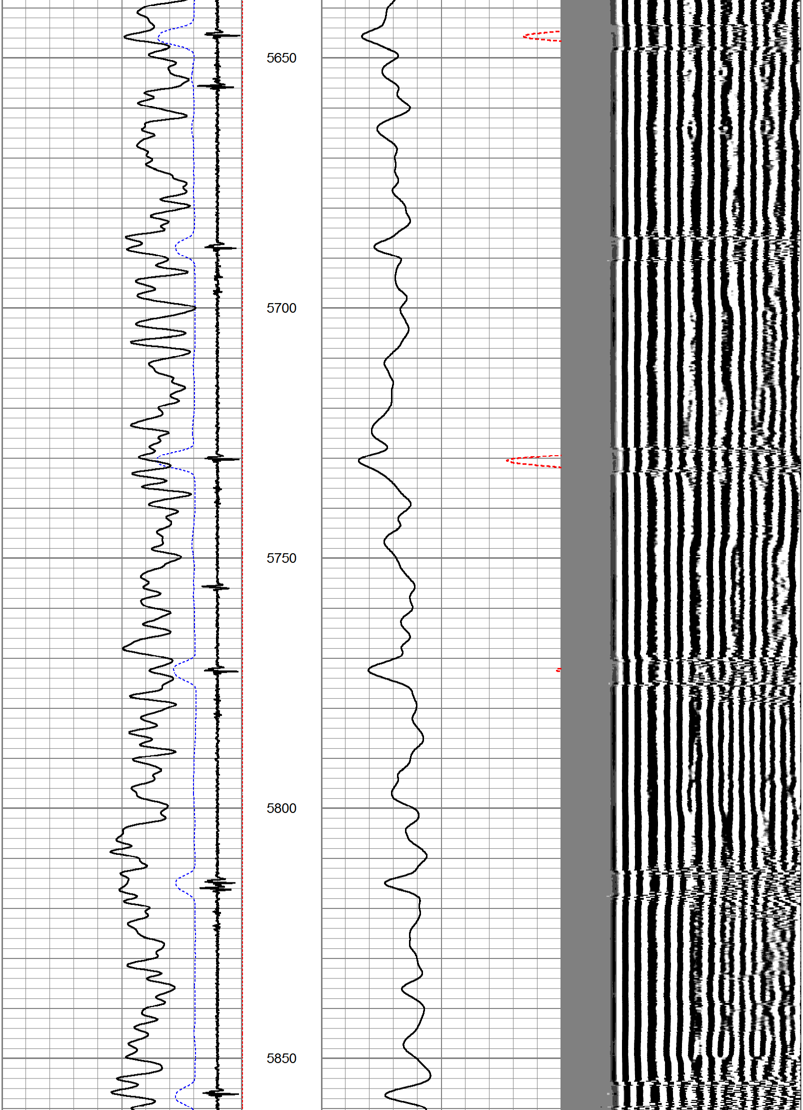


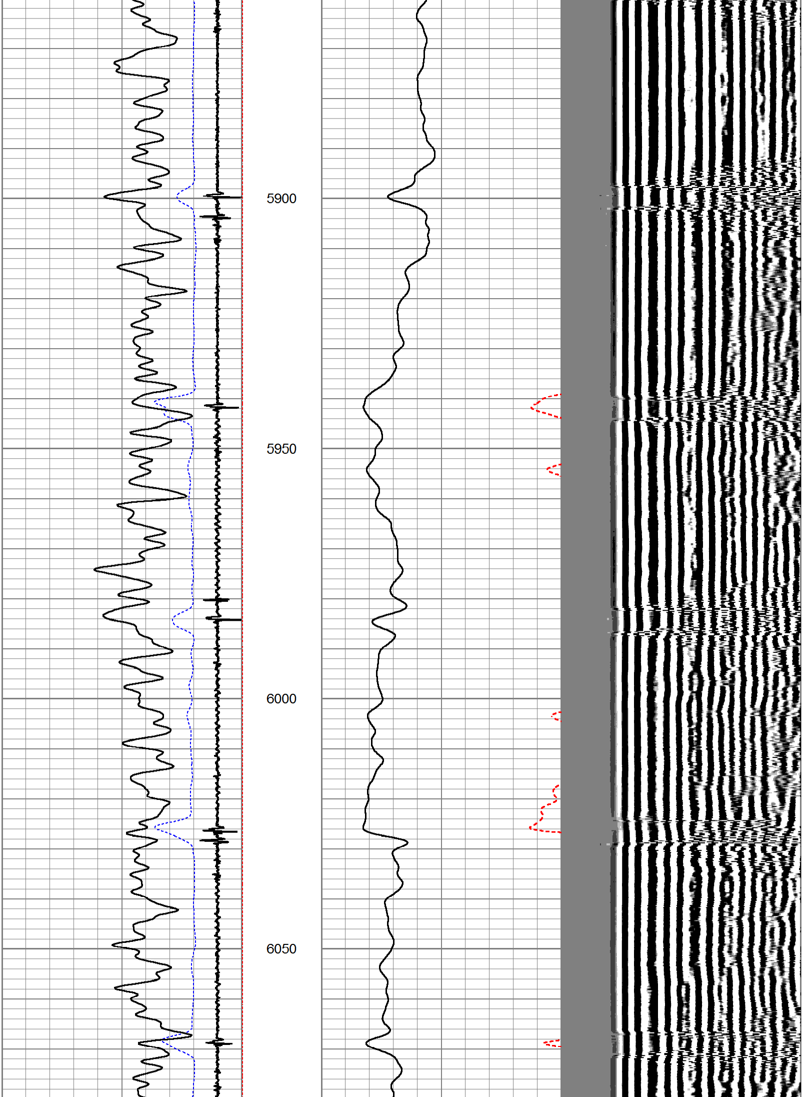


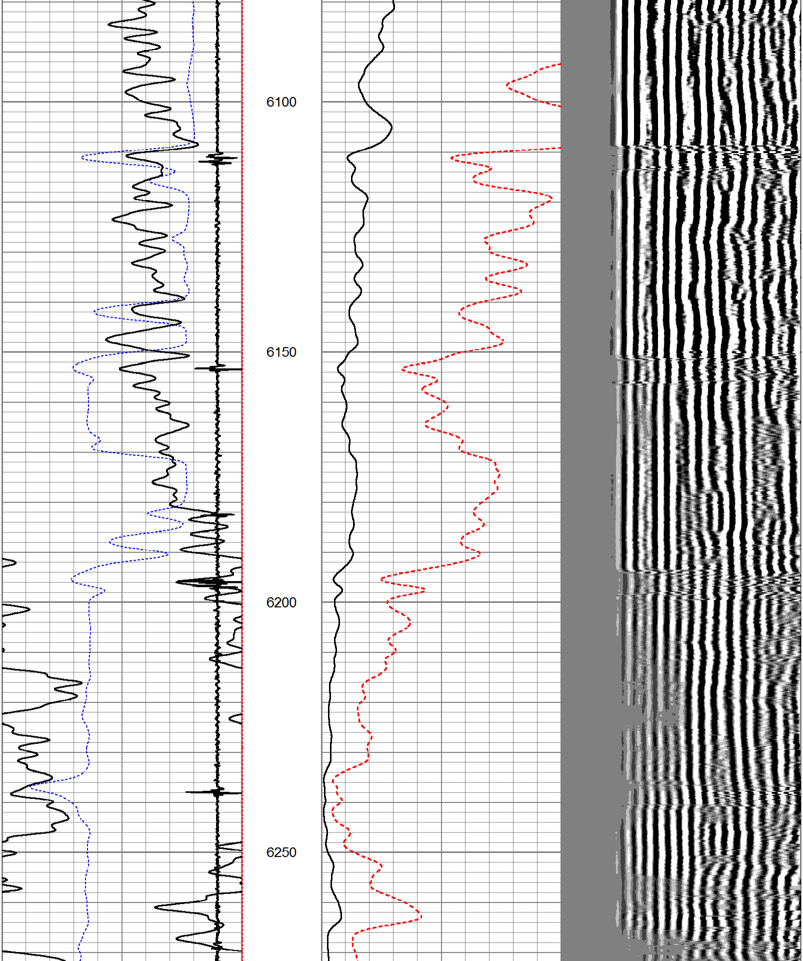


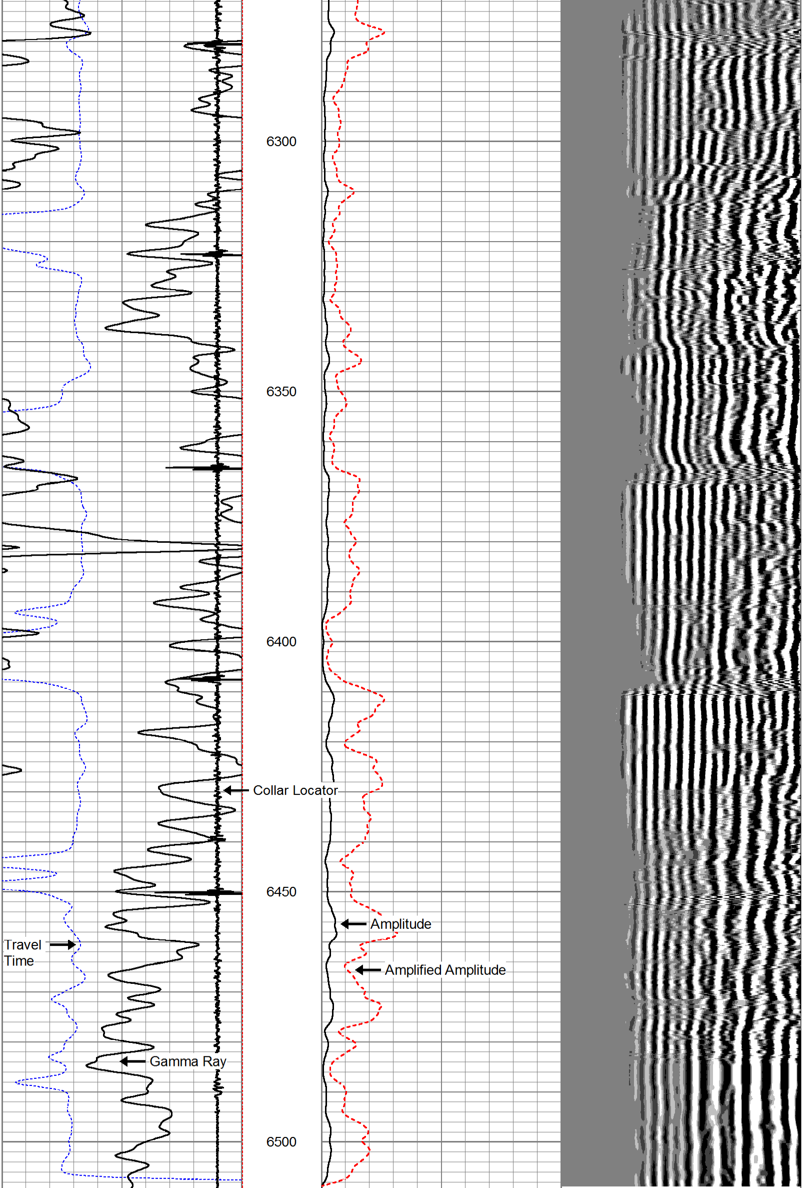


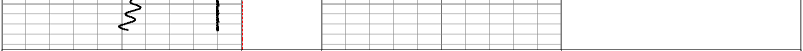












379 Travel Time (usec) 279	Line Tension	0 Amplitude (mV) 100	200 VDL 1200
-9 Collar Locator 1		0 Amplified Amplitude (mV) 20	
0 Gamma Ray (GAPI) 150	0 (lb 2000		

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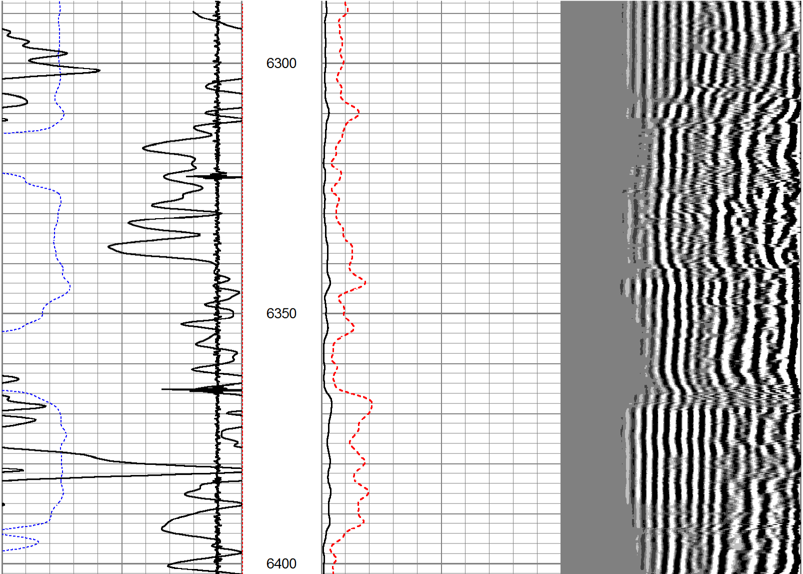
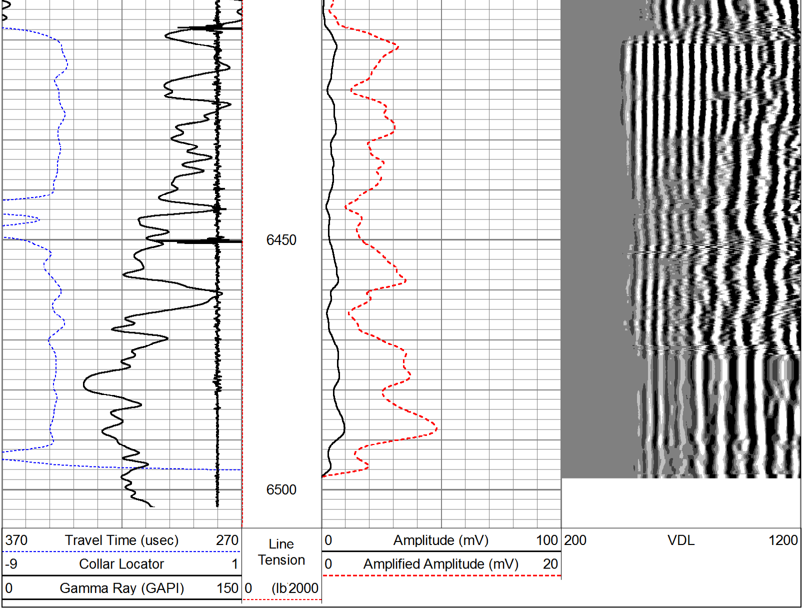
REPEAT SECTION

0 PSI APPLIED AT SURFACE

Database File	bonanza_creek_a11_u41_2hnc.db
Dataset Pathname	cbl/pass6
Presentation Format	pnr_cbl
Dataset Creation	Thu Mar 26 19:47:47 2015
Charted by	Depth in Feet scaled 1:240

370 Travel Time (usec) 270	Line Tension	0 Amplitude (mV) 100	200 VDL 1200
-9 Collar Locator 1		0 Amplified Amplitude (mV) 20	
0 Gamma Ray (GAPI) 150	0 (lb 2000		





Calibration Report

Database File	bonanza_creek_a11_u41_2hnc.db
Dataset Pathname	cbl/merge1
Dataset Creation	Thu Mar 26 21:25:07 2015

Gamma Ray Calibration Report

Serial Number:	275 Digital	
Tool Model:	Probe GR/CCL Digital	
Performed:	Thu Mar 26 11:17:31 2015	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8500	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1410-01	
Tool Model:	Probe RBL-T-Dig	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	485.583	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	1.607	0.300	62.165	38.496	0.300
CAL	1.988	1.982				
5'	0.000	1.790	0.300	62.165	34.554	0.300
SUM						
S1	-0.019	1.494	0.000	100.000	66.085	1.275
S2	0.000	1.557	0.000	100.000	64.211	-0.001
S3	0.000	1.622	0.000	100.000	61.671	-0.001
S4	0.000	1.689	0.000	100.000	59.190	-0.000
S5	0.000	1.765	0.000	100.000	56.644	-0.000
S6	0.000	1.713	0.000	100.000	58.375	-0.000
S7	0.000	1.599	0.000	100.000	62.559	-0.001
S8	-0.010	1.526	0.000	100.000	65.112	0.623

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	1.988	1.982	1.000	0.000

Air Zero Calibration, performed Thu Mar 26 19:23:25 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

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Company	BONANZA CREEK		
Well	STATE ANTELOPE A11-U41-2HNC		
Field	STATE ANTELOPE B-2 PAD		
County			
State	COLORADO	Country	USA