PIONEER

Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY/CCL

Company	CARRIZO NIOBRARA LLC.
Well	BRINGELSON RANCH 13-20-9-58
Field	WILDCAT
County	WELD
State	CO

Location: API # : 05-123-39370

SHL: 2080' FNL & 513' FWL SWNW

SEC 20 TWP 9N RGE 58W

Other Services: NONE

Permanent Datum	GL	Elevation 4873	Elevation
Log Measured From	KB		K.B. 4890
Drilling Measured From	KB		D.F. 4889
			G.L. 4873

CompanyCARRIZO NIOBRARA LLC.

Well BRINGELSON RANCH 13-20-9-58

Field WILDCAT

County WELD State CO

Date of Service	MARCH 2, 2015
Run Number	1
Depth Driller or PBTD	10627'
Depth Logger	5950'
Bottom Log Interval	5950'
Top Log Interval	SURFACE
Open Hole Size	8.75"
Type Fluid	WBM
Fluid Level	186'
Fluid Density	9.7
Max. Recorded Temperature	N/A
Max. Wellhead Pressure	0 PSI
Wellhead Connection	NA
Estimated Cement Top	SEE LOG
Unit Number	P-36
Wireline Size	7/16"
Location	FT. MORGAN
Recorded By	CLINT CHRISTENSEN
Witnessed By	JEFF MEYER

	Size	Wt/Ft	Top	Bottom
Tubing Record	N/A	N/A	N/A	N/A
Surface Casing	9.625"	36#	SURFACE	1429.6'
Production Casing	7"	23#	SURFACE	6493'
Liner Record	N/A	N/A	N/A	N/A

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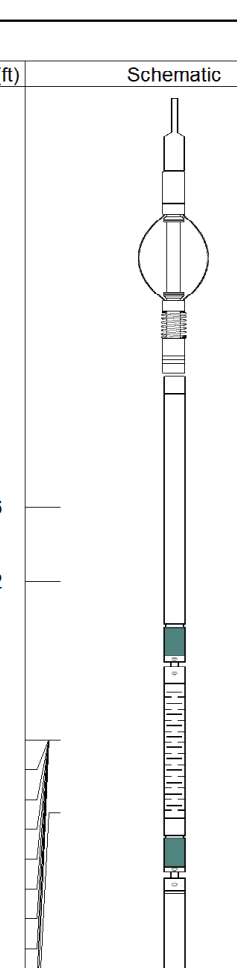
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, 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 MAGNETIC MARKS
XTREME RIG #19
THANK YOU FOR USING PIONEER ENERGY SERVICES
SO# 2-013961

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: CLINT CHRISTENSEN	PROBE RADII BOND	141168
Operator: MARCUS HOULMIERE	PROBE CCL/GAMMA	51013
Operator: MIKE GARCIA		
Operator: -		



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CHD-Titan (1) Titan Type II Cable Head	1.03	1.44	5.00
		CENT #2 -A (1)	2.83	2.75	20.00
IntTemp	14.66				
TEMP	13.62				
WVF3FT	11.41	RBT-RBT-C3 (141168) Probe Radii Bond Tool with Digital Telemetry	9.33	2.75	90.00
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: 13961.db: field/well/run1/pass3.1
Total Length: 20.35 ft
Total Weight: 235.00 lb
O.D. 2.75 in

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MAIN PASS

LOGGED UNDER 0 PSI

Database File:	13961.db
Dataset Pathname:	pass3.1
Presentation Format:	scbl02
Dataset Creation:	Mon Mar 02 11:15:59 2015 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:240

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MAIN PASS

LOGGED UNDER 0 PSI

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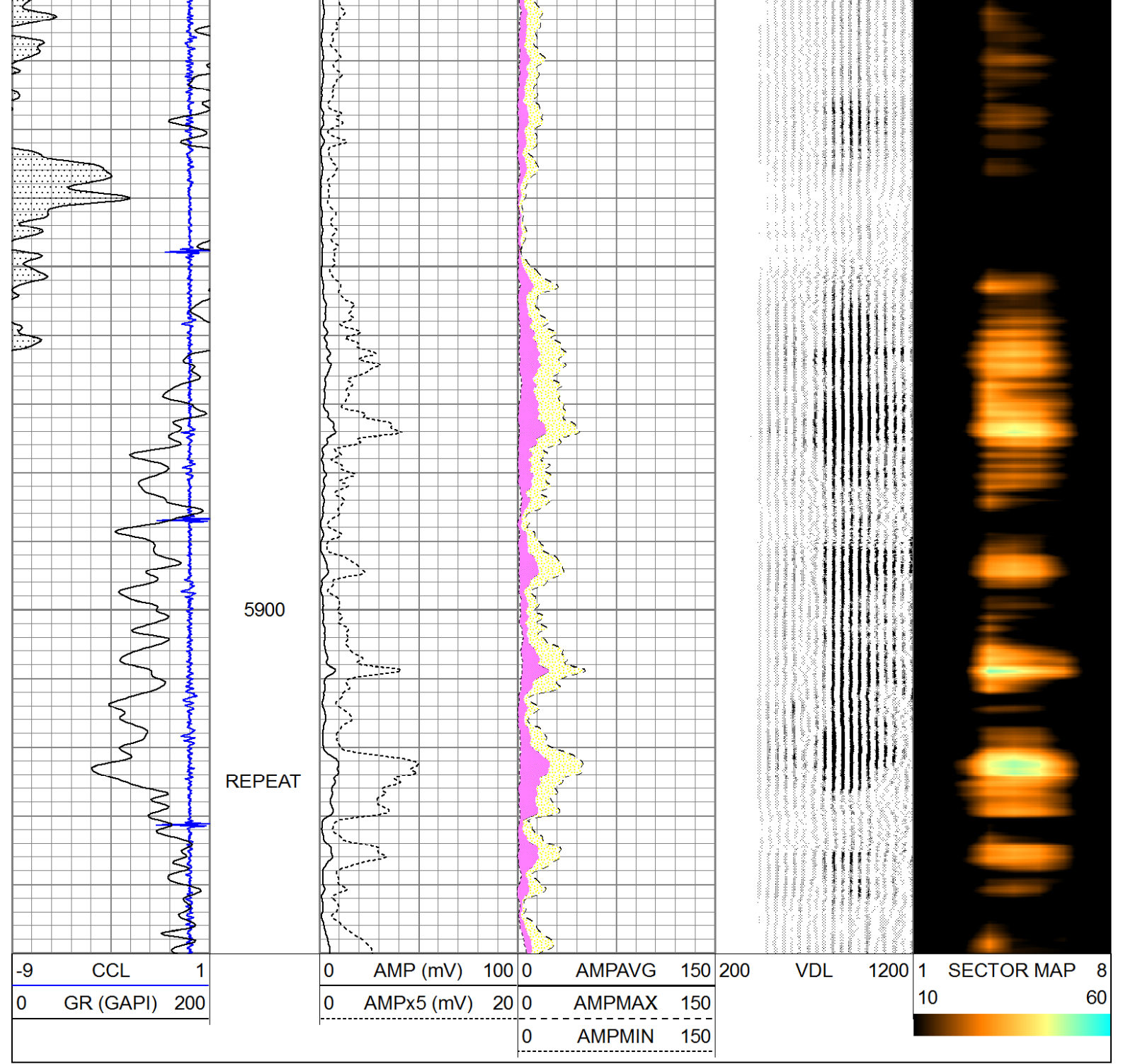
REPEAT PASS

LOGGED UNDER 0 PSI

Database File:	13961.db
Dataset Pathname:	pass2.1
Presentation Format:	scbl02
Dataset Creation:	Mon Mar 02 12:33:06 2015 by Calc Open-Cased 110302
Charted by:	Depth in Feet scaled 1:240



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REPEAT PASS

LOGGED UNDER 0 PSI

Calibration Report

Database File:	13961.db
Dataset Pathname:	pass3.1
Dataset Creation:	Mon Mar 02 11:15:59 2015 by Calc Open-Cased 110302

Gamma Ray Calibration Report

Serial Number:	51013	
Tool Model:	probe 2.75	
Performed:	Mon Mar 02 05:34:13 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:	141168	
Tool Model:	RBT-C3	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	0.000	ft

Master Calibration, performed Mon Mar 02 5:15:14 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.011	0.842	0.500	62.200	72.380	1.278
CAL	0.001	0.882				
5'	0.000	0.891	0.500	62.200	69.222	0.499
SUM						
S1	-0.007	0.944	0.000	100.000	105.106	0.731
S2	-0.003	0.955	0.000	100.000	104.326	0.353
S3	-0.001	0.975	0.000	100.000	102.424	0.118
S4	-0.008	1.003	0.000	100.000	98.871	0.809
S5	-0.003	1.081	0.000	100.000	92.218	0.283
S6	-0.009	1.123	0.000	100.000	88.342	0.756
S7	-0.004	1.088	0.000	100.000	91.559	0.404
S8	-0.005	1.003	0.000	100.000	99.203	0.455

Internal Reference Calibration, performed Mon Mar 02 09:44:45 2015:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.001	1.012	0.001	1.020	1.008	0.000

Air Zero Calibration, performed Mon Mar 02 09:08:31 2015:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	-0.011
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	-0.005
S2	0.000	0.000	-0.003
S3	0.000	0.000	-0.001
S4	0.000	0.000	-0.008
S5	0.000	0.000	-0.003
S6	0.000	0.000	-0.009
S7	0.000	0.000	-0.004
S8	0.000	0.000	-0.002

Temperature Calibration Report

Serial Number:	141168			
Tool Model:	RBT-C3			
Performed:	Fri Feb 27 15:48:44 2015			
	Reference		Reading	
Low Reference:	0.00	degF	0.00	degF
High Reference:	1.00	degF	1.00	degF
Gain:	0.77			
Offset:	20.00			
Delta Spacing	1			