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Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY

Company	CARRIZO NIOBRARA LLC
Well	SHULL 7-25-9-60
Field	WILDCAT
County	WELD
State	COLORADO
Country	USA

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Well SHULL 7-25-9-60
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API # : 05-123-40495

Location:
SHL: 265' FSL & 1584' FEL SWSE
SEC 25 TWP 9N RGE 60W

Other Services
None

Permanent Datum	GL	Elevation 4887'
Log Measured From	KB	
Drilling Measured From	KB	

Elevation
K.B. 4904'
D.F. 4903'
G.L. 4887'

Date	January 24, 2015
Run Number	1
Depth Driller	10796'
Depth Logger	6190'
Bottom Logged Interval	6190'
Top Log Interval	0
Open Hole Size	8-3/4"
Type Fluid	WBM
Density / Viscosity	9.6 / 42
Max. Recorded Temp.	NA
Estimated Cement Top	1550'
Time Well Ready	0045
Time Logger on Bottom	0200
Equipment Number	36
Location	Ft. Morgan, CO
Recorded By	Clint Christensen
Witnessed By	Bob McNeese

Borehole Record

Run Number	Bit	From	To

Tubing Record

Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	7"	29 lbs	0	6330'
Liner				

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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

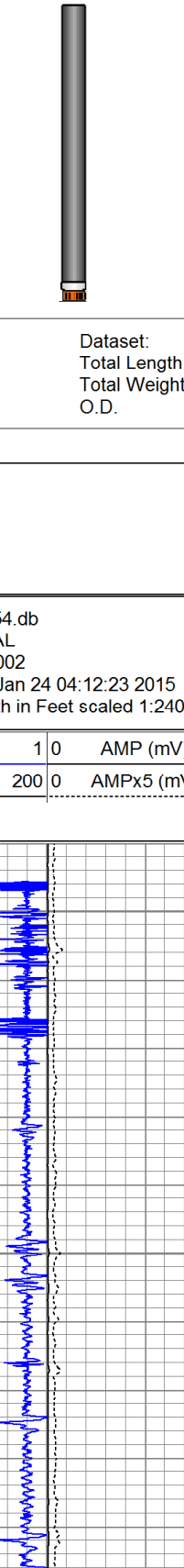
Logged Under 0 PSI

Depth Correlated to 7" Tally

Extreme Rig #19

Thank You for using Pioneer Energy Services

SO# 2-013754



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CENT #2 -A (1)	2.83	2.75	20.00
IntTemp	14.66				
TEMP	13.64				
WVF3FT	11.41	RBT-RBT-C3 (11206) 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	1.13	GR-probe 2.75 (51013) proble Digital CCL Gamma	4.33	2.75	100.00

Dataset:	13754.db: field/well/run1/FINAL
Total Length:	19.32 ft
Total Weight:	230.00 lb
O.D.	2.75 in

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MAIN PASS

Database File:	13754.db
Dataset Pathname:	FINAL
Presentation Format:	scbl002
Dataset Creation:	Sat Jan 24 04:12:23 2015
Charted by:	Depth in Feet scaled 1:240

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MAIN PASS

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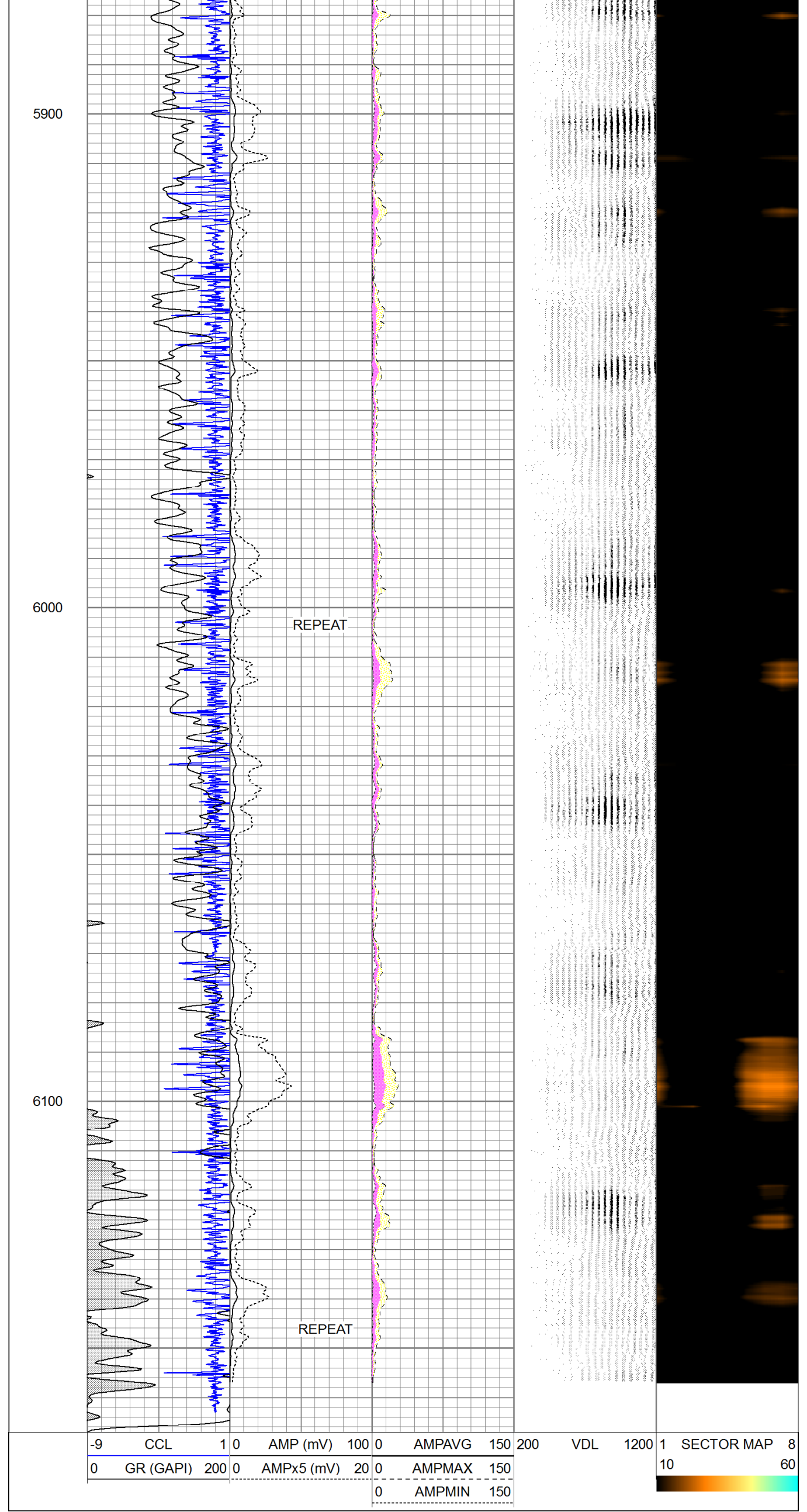
REPEAT SECTION

Database File: 13754.db
Dataset Pathname: pass3.1
Presentation Format: scbl002
Dataset Creation: Sat Jan 24 04:05:40 2015 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:240



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REPEAT SECTION

Calibration Report

Database File: 13754.db
Dataset Pathname: FINAL
Dataset Creation: Sat Jan 24 04:12:23 2015

Gamma Ray Calibration Report

Serial Number:	51013	
Tool Model:	probe 2.75	
Performed:	Sat Jan 24 01:45:55 2015	
Calibrator Value:	1400.0	GAPI
Background Reading:	26.8	cps
Calibrator Reading:	1120.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	11206	
Tool Model:	RBT-C3	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	1048.835	ft

Master Calibration, performed Sat Jan 24 03:29:22 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.866	0.000	62.165	62.464	0.454
CAL	0.001	0.868				
5'	0.004	0.820	0.000	62.165	63.915	-0.090
SUM						
S1	0.002	0.883	0.000	100.000	86.658	0.790
S2	0.002	0.884	0.000	100.000	85.781	0.526
S3	0.001	0.868	0.000	100.000	88.121	0.386
S4	0.001	0.867	0.000	100.000	91.606	0.566
S5	0.001	0.869	0.000	100.000	92.939	0.261
S6	0.000	0.869	0.000	100.000	93.685	0.655
S7	0.002	0.871	0.000	100.000	92.539	0.670
S8	0.002	0.872	0.000	100.000	92.076	0.416

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.001	0.868	1.000	0.000

Air Zero Calibration, performed Sat Jan 24 01:23:13 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

Temperature Calibration Report

Serial Number: 11206
Tool Model: RBT-C3
Performed: Mon Dec 15 05:21:22 2014

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

Gain: 1.00
Offset: 0.00
Delta Spacing 1