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Pioneer Energy Services

CEMENT BOND LOG WITH GAMMA RAY

Company	BONANZA CREEK
Well	NORTH PLATTE FED 11-14-22HNC
Field	WATTENBERG
County	WELD
State	CO

Company **BONANZA CREEK**
Well **NORTH PLATTE FED 11-14-22HNC**
Field **WATTENBERG**
County **WELD** State **CO**

Location: API # : 05-123-40195
SHL: 657' FNL & 1205' FWL NWNW
SEC 22 TWP 5N RGE 63W

Other Services: NONE

Permanent Datum	GL	Elevation	4657'	Elevation
Log Measured From	GL			K.B. 4674'
Drilling Measured From	GL			D.F. 4673'
				G.L. 4657'

Date of Service	6 JUNE 2015	
Run Number	1	
Depth Driller or PBTD	7087	
Depth Logger	6130	
Bottom Log Interval	6120	
Top Log Interval	SURFACE	
Open Hole Size	8+3/4"	
Type Fluid	WATER	
Fluid Level	SURFACE	
Fluid Density	NA	
Max. Recorded Temperature	NA	
Max. Wellhead Pressure	0	
Wellhead Connection	NA	
Estimated Cement Top	380	
Unit Number	P-96	
Wireline Size	1/4"	
Location	FT. MORGAN	
Recorded By	D TRAVIS	S STUMP
Witnessed By	KEVIN BUNKER	

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9+5/8"	36#	SURFACE	489
Production Casing	7"	26#	SURFACE	7068
Liner Record				

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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

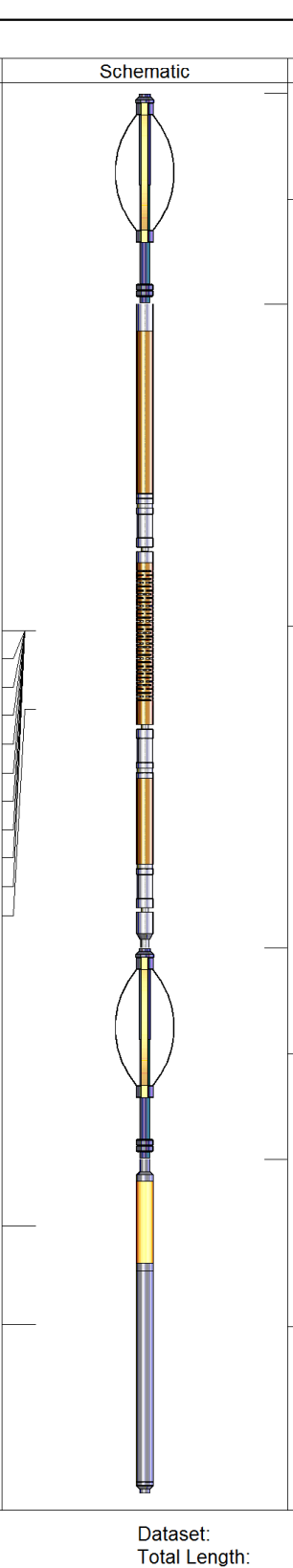
N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

0 PSI ON WELL WHILE LOGGING

S.O. 2-280178

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: STUMP, TRAVIS	CBL	070132
Operator: JAMES PRENTICE	GAMMA RAY / CCL	110249
Operator: DALE SCHAEFER		
Operator: NA		



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CENT-PTS275 (1)	2.88	2.75	
WVF3FT WVFCAL WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 WVF5FT	11.75 11.75 11.75 11.75 11.75 11.75 11.75 11.75 11.75 11.75 10.67	RBT-Probe (070132) Probe Radii Bond Tool with Digital Telemetry	8.77	2.75	90.00
		CENT-PTS275 (2)	2.88	2.75	
CCL	3.63				
GR	2.30	GR_CCL-Probe (110249) Probe Gamma CCL	4.54	2.75	100.00

Dataset: 2-280178.db: field/well/run1/pass4
Total Length: 19.06 ft
Total Weight: 190.00 lb
O.D. 2.75 in

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MAIN PASS

Database File: 2-280178.db
Dataset Pathname: good_v2
Presentation Format: cbl
Dataset Creation: Sun Jun 07 09:50:59 2015 by Calc SCH 120430
Charted by: Depth in Feet scaled 1:240

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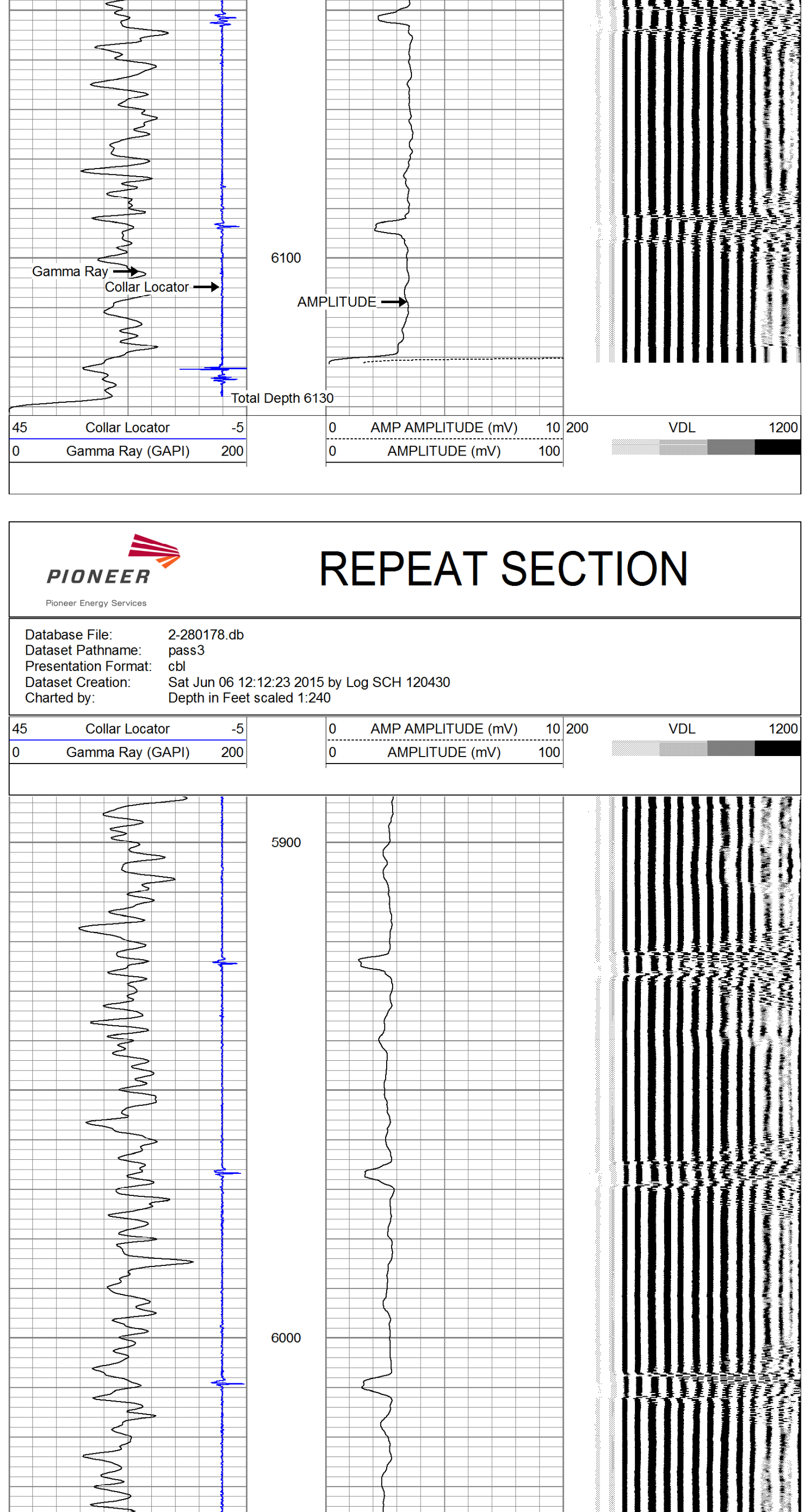
REPEAT SECTION

Database File:	2-280178.db
Dataset Pathname:	pass3
Presentation Format:	cbl
Dataset Creation:	Sat Jun 06 12:12:23 2015 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240



Calibration Report

Database File:	2-280178.db
Dataset Pathname:	pass4
Dataset Creation:	Sat Jun 06 12:17:07 2015 by Log SCH 120430

Gamma Ray Calibration Report

Serial Number:	110249	
Tool Model:	Probe	
Performed:	Mon Jun 01 10:27:22 2015	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.9900	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	070132	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	158.042	ft

Master Calibration, performed Fri Jun 05 12:11:37 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.009	0.776	1.574	67.884	86.485	0.814
CAL	0.015	0.749				
5'	0.014	0.702	1.574	67.884	96.293	0.266
SUM						
S1	0.004	0.754	0.000	100.000	133.445	-0.573
S2	0.012	0.732	0.000	100.000	138.966	-1.708
S3	0.013	0.775	0.000	100.000	131.314	-1.710
S4	0.009	0.819	0.000	100.000	123.553	-1.162
S5	0.007	0.813	0.000	100.000	124.012	-0.880
S6	0.010	0.841	0.000	100.000	120.276	-1.193
S7	0.010	0.818	0.000	100.000	123.720	-1.186
S8	0.009	0.815	0.000	100.000	124.020	-1.095

Internal Reference Calibration, performed Sat Jun 06 08:38:36 2015:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.987	0.987	0.015	0.749	1.000	0.000

Air Zero Calibration, performed Mon May 18 11:14:10 2015:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.021	0.000	-0.012
5'	0.021	0.000	-0.007
SUM			
S1	0.023	0.000	-0.019
S2	0.021	0.000	-0.009
S3	0.022	0.000	-0.009
S4	0.024	0.000	-0.014
S5	0.023	0.000	-0.016
S6	0.022	0.000	-0.012
S7	0.021	0.000	-0.011
S8	0.022	0.000	-0.013

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Field	WATTENBERG
County	WELD
State	CO