Company	BONANZA CREEK
Well	NORTH PLATTE FED A-E-22HC
Field	WATTENBERG
County	WELD
State	CO

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CEMENT BOND LOG WITH GAMMA RAY

Company	BONANZA CREEK
Well	NORTH PLATTE FED A-E-22HC
Field	WATTENBERG
County	WELD
State	CO

Location: API # : 05-123-40197
SHL: 617' FNL & 1205' FWL NWNW
SEC 22 TWP 5N RGE 5N

Other Services: NONE

Permanent Datum	GL	Elevation	4658'
Log Measured From	GL		
Drilling Measured From	GL		

Elevation
K.B. 4675'
D.F. 4674'
G.L. 4658'

Date of Service	6 JUNE 2015
Run Number	1
Depth Driller or PBTD	7346
Depth Logger	6220
Bottom Log Interval	6210
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	170'
Unit Number	P-96
Wireline Size	1/4"
Location	FT. MORGAN
Recorded By	D TRAVIS
Witnessed By	KEVIN BUNKER / S STUMP

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9+5/8"	36#	SURFACE	489
Production Casing	7"	26#	SURFACE	7346'
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

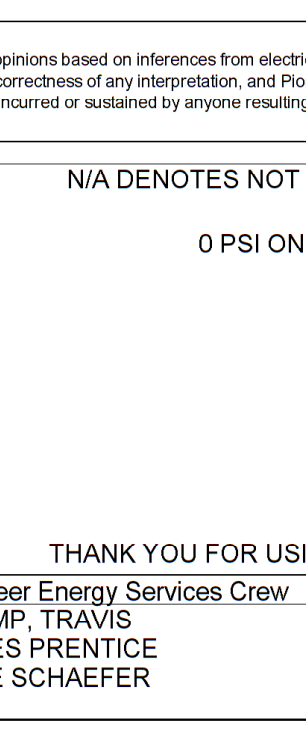
N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

0 PSI ON WELL WHILE LOGGING

S.O. 2-280176

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: 2-280176.db: field/well/run1/pass3
Total Length: 19.06 ft
Total Weight: 190.00 lb
O.D. 2.75 in

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MAIN PASS

Database File: 2-280176.db
Dataset Pathname: pass3
Presentation Format: cbl
Dataset Creation: Sat Jun 06 08:50:25 2015 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

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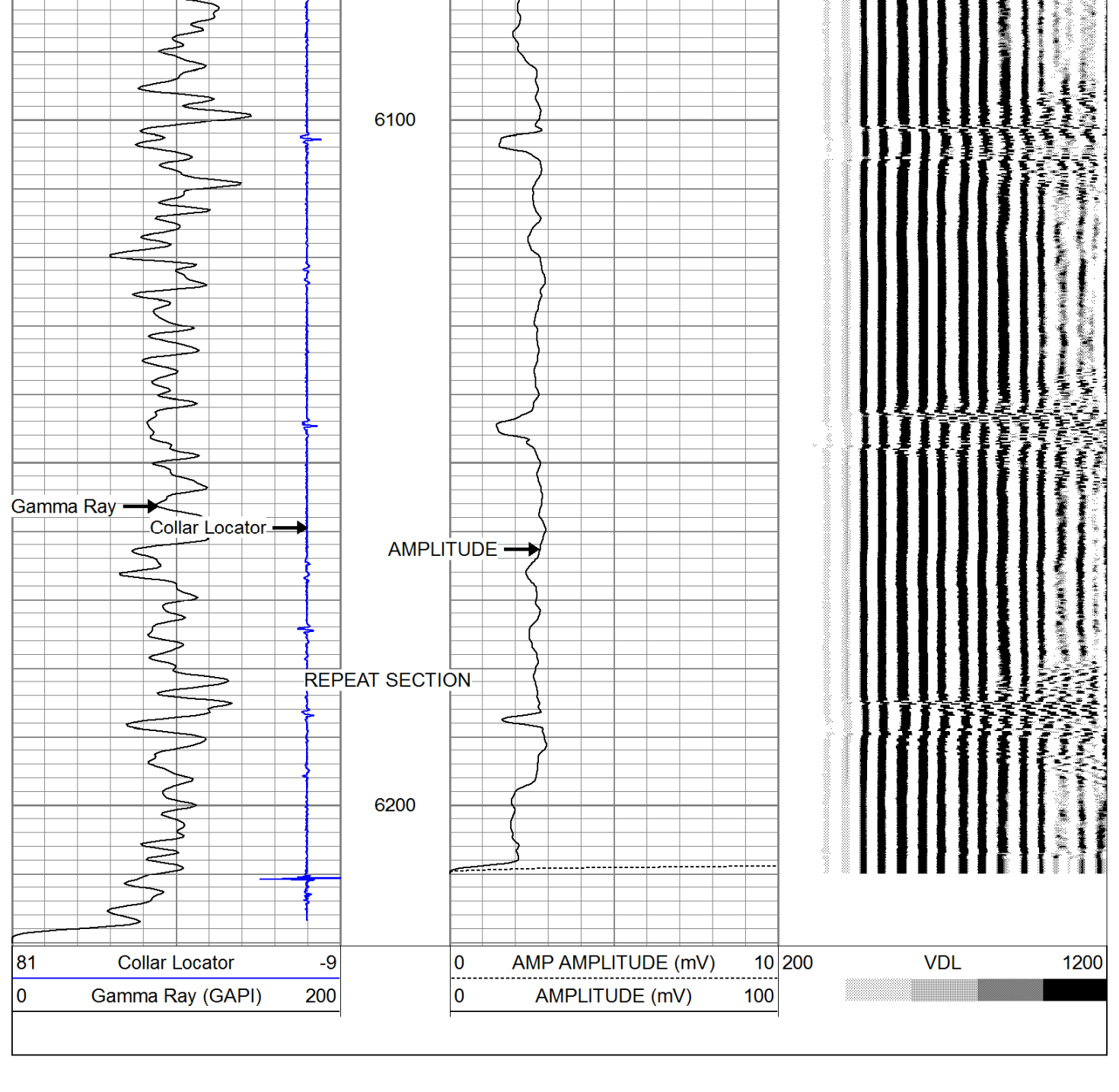
REPEAT SECTION

Database File: 2-280176.db
Dataset Pathname: pass2
Presentation Format: cbl
Dataset Creation: Sat Jun 06 08:46:01 2015 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: 2-280176.db
Dataset Pathname: pass3
Dataset Creation: Sat Jun 06 08:50:25 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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Company	BONANZA CREEK
Well	NORTH PLATTE FED A-E-22HC
Field	WATTENBERG
County	WELD
State	CO