Company BONANZA CREEK ENERGY OP.
Well NORTH PLATTE FEDERAL F21-J24-22HNB
Field WATTENBERG
County WELD
State CO

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CEMENT BOND LOG WITH GAMMA RAY

Company	BONANZA CREEK ENERGY OP. CO LLC
Well	NORTH PLATTE FEDERAL F21-J24-22HNB
Field	WATTENBERG
County	WELD
State	CO

Location: API # : 05123402000000
SHL: 677' FNL & 1205' FWL NWNW
LAT: 40.390285
LONG: -104.426818
SEC 22 TWP 5N RGE 63W

Other Services: None

Permanent Datum GL Elevation 4658
Log Measured From KB
Drilling Measured From KB...17' ABOVE GL

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

Date of Service	JUNE 6, 2015
Run Number	1
Depth Driller or PBTD	NA
Depth Logger	6120
Bottom Log Interval	6118
Top Log Interval	SURFACE
Open Hole Size	8.75"
Type Fluid	WATER
Fluid Level	32
Fluid Density	8.33 PPG
Max. Recorded Temperature	194 F
Max. Wellhead Pressure	0
Wellhead Connection	NA
Estimated Cement Top	58
Unit Number	P53
Wireline Size	9/32"
Location	FT MORGAN, CO
Recorded By	SCHUMAN
Witnessed By	MR KEVIN BUNKER

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9.625"	36#	SURFACE	489
Production Casing	7"	26#	SURFACE	6968
Liner Record	4.5"	11.6#	6038	NA

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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.
S.O. # 2-280181

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THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer Energy Services Crew	Tool Data - Services	Serial Number
Engineer: SHAUN	CBL	141168
Operator: GENO	GR	080538
Operator: BRENT		
Operator:		

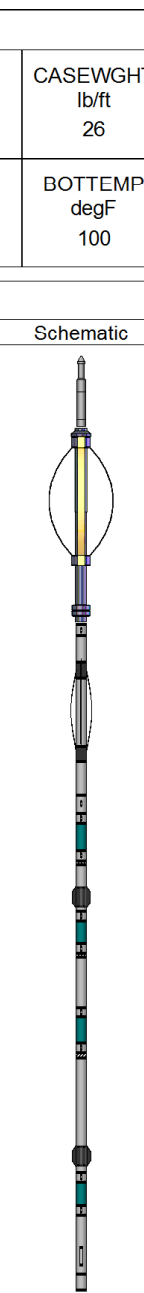
Log Variables

Database:C:\Warrior\Data\north platte federal f21-j24-22hnb_cbl.db
Dataset: field/well/cbl/pass2

Top - Bottom

XXXX	PPT usec	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	SRFTEMP degF	CASEOD in
0	0	26	0	1.5	0.08	0	7

PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	0	100	8.75

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			STNDRD Standard Cable Head	1.00	1.69	10.00
			2.75 2 3/4" Tekco Adjustable Centralizer	2.73	2.75	25.00
IntTemp	14.88					
TEMP	13.86					
			RBT-RBT-C3 (141168_7in) Probe Radii Bond Tool with Digital Telemetry	9.40	2.75	90.00
WVF3FT	11.63					
WVFCAL	11.63					
WVFS1	11.63					
WVFS2	11.63					
WVFS3	11.63					
WVFS4	11.63					
WVFS5	11.63					
WVFS6	11.63					
WVFS7	11.63					
WVFS8	11.63					
WVF5FT	10.63					
			PTS275	2.83	2.75	
CCL	3.63					
			GR_CCL-Probe (080538) Probe Gamma CCL	4.54	2.75	100.00
GR	0.90					

Dataset: north platte federal f21-j24-22hnb_cbl.db: field/well/cbl/merge1.1
Total Length: 20.50 ft
Total Weight: 225.00 lb
O.D. 2.75 in

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MAIN LOG

LOGGED WITH ZERO PSI APPLIED AT SURFACE

Database File: north platte federal f21-j24-22hnb_cbl.db
Dataset Pathname: cbl/merge1.1
Presentation Format: cbl_drs
Dataset Creation: Sat Jun 06 12:13:49 2015 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

9 Collar Locator -1	0 AMPLIFIED AMPLITUDE (mV) 30	200 VDL 1200
0 Gamma Ray (GAPI) 200	0 AMPLITUDE (mV) 100	
300 TT3FT (usec) 200		
Well Temp (degF)		

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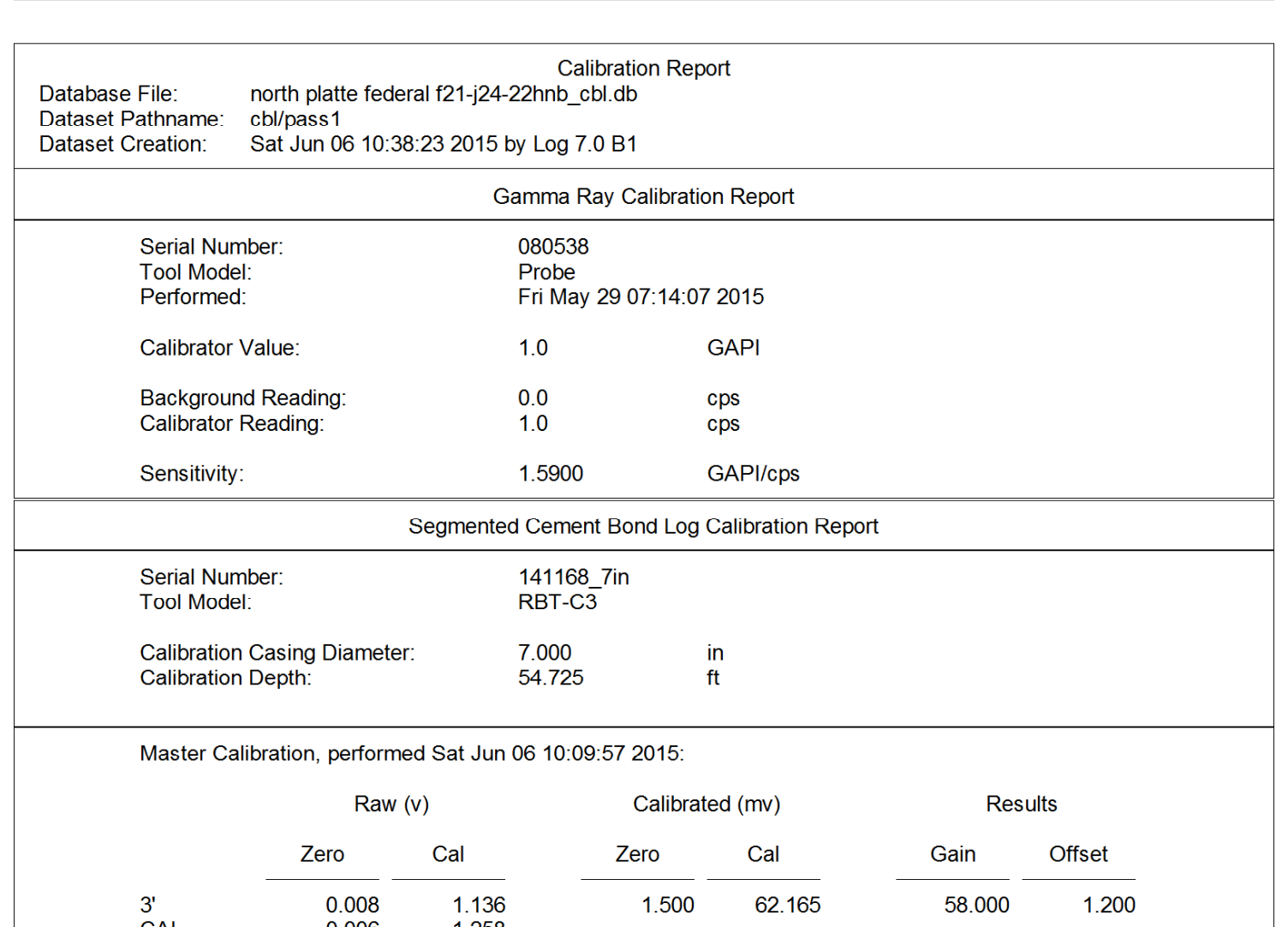
REPEAT SECTION

LOGGED WITH ZERO PSI APPLIED AT SURFACE

Database File: north platte federal f21-j24-22hnb_cbl.db
Dataset Pathname: cbl/pass1
Presentation Format: cbl_drs
Dataset Creation: Sat Jun 06 10:38:23 2015 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: north platte federal f21-j24-22hnb_cbl.db
Dataset Pathname: cbl/pass1
Dataset Creation: Sat Jun 06 10:38:23 2015 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number:	080538	
Tool Model:	Probe	
Performed:	Fri May 29 07:14:07 2015	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.5900	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	141168_7in	
Tool Model:	RBT-C3	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	54.725	ft

Master Calibration, performed Sat Jun 06 10:09:57 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.008	1.136	1.500	62.165	58.000	1.200
CAL	0.006	1.258				
5'	0.006	1.112	1.500	62.165	54.865	1.152
SUM						
S1	0.059	1.138	0.000	100.000	92.692	-5.450
S2	0.009	1.127	0.000	100.000	89.420	-0.771
S3	0.008	1.130	0.000	100.000	89.097	-0.694
S4	0.009	1.135	0.000	100.000	88.880	-0.834
S5	0.007	1.140	0.000	100.000	88.302	-0.628
S6	0.009	1.142	0.000	100.000	88.229	-0.779
S7	0.009	1.138	0.000	100.000	88.519	-0.767
S8	0.008	1.134	0.000	100.000	88.831	-0.736

Temperature Calibration Report

Serial Number: 141168_7in
Tool Model: RBT-C3
Performed: Sat Jun 06 08:35:48 2015

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

Gain: 0.80
Offset: 2.00
Delta Spacing 1

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Company	BONANZA CREEK ENERGY OP. CO LLC		
Well	NORTH PLATTE FEDERAL F21-J24-22HNB		
Field	WATTENBERG		
County	WELD		
State	CO	Country	USA