HALLIBURTON

CEMENT BOND LOG

Company	CARRIZO
Well	BAILEY 6-26-8-60
Field	WILDCAT
County	WELD State CO

Company CARRIZO
Well BAILEY 6-26-8-60
Field WILDCAT
County WELD State CO

API No.: 05-123-37812 Serv #: 900756632
Location: LAT: 40.627020 LONG: -104.063750

Other Services
N/A

Sec: 26 Twp: 8N Rge: 60W

Permanent Datum	GL	Elevation 4876'	Elevation	
Log Measured From	KB , 17 Ft. above perm. datum		K.B.	4893'
Drilling Measured From	KB		D.F.	4892'
			G.L.	4876'

Date @ Time Logged	20-SEPT-2013	Type Fluid in Hole	FRESH WATER
Run No.	ONE	Density of Fluid	8.33
Depth - Driller	10691	Fluid Level	SURFACE
Depth - Logger	5692	Cement Top Est. Logged	1770
Bottom - Logged Interval	5680	Equipment / Location	11014931 / BRIGHTON
Top - Log Interval	75	Recorded by	JOSHUA MCDANIEL
Max. Recorded Temp.	226	Witnessed by	KIRK WILLIAMS

CEMENTING DATA	Surface String	Protection String	Production String	Liner
Date / Time Cemented				
Primary / Squeeze				
Expected Compressive Strength	psi@ hrs	psi@ hrs	psi@ hrs	psi@ hrs
Cement Volume	/	/	/	/
Cement Type / Weight	/	/	/	/
Formulation				
Mud Type / Mud Wgt.	/	/	/	/

Borehole Record				Casing & Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
				7	23	0	5506

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HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

Comments

PRIMARY DEPTH REFERENCE

TOL @ 5506'

ESTIMATED TOP OF CEMENT @ 1770'

MAX TEMP = 226 DEG F

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES!

HALLIBURTON

MAIN PASS 1000 PSI

SCALE: 5" = 100'

Database File: bailey.db
Dataset Pathname: pass15
Presentation Format: 1cbl
Dataset Creation: Fri Sep 20 11:30:40 2013 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

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MAIN PASS 1000 PSI

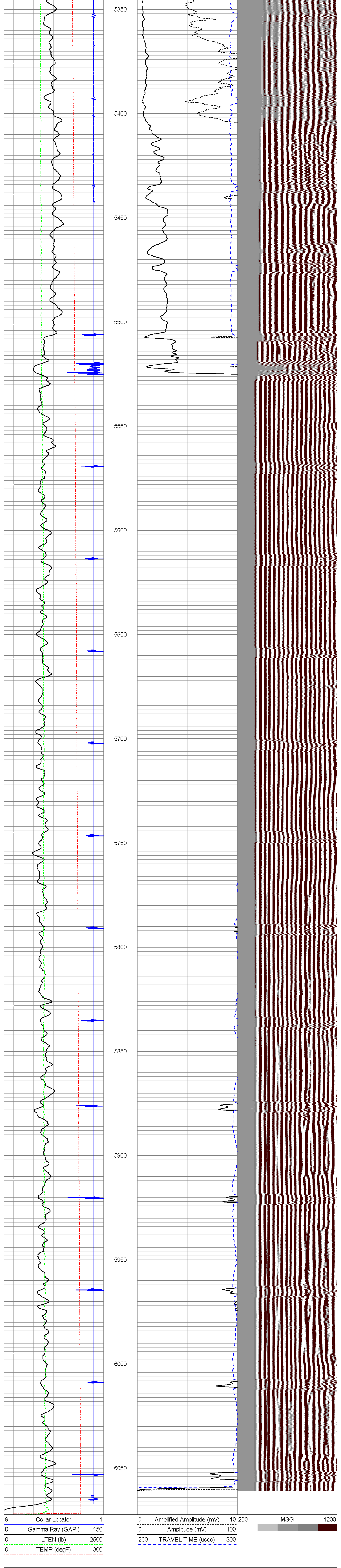
SCALE: 5" = 100'

HALLIBURTON

REPEAT PASS

SCALE: 5" = 100'

Database File: bailey.db
Dataset Pathname: pass13
Presentation Format: 1cbl
Dataset Creation: Fri Sep 20 11:17:48 2013 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240



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REPEAT PASS

SCALE: 5" = 100'

Log Variables

Database:D:\Warrior_data\bailey.db
Dataset: field/well/run1/pass15

Top - Bottom

PPT usec	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF
287	62	0	0.8	7	0	5585	9226
BITSIZE in							
8.75							

Calibration Report

Database File: bailey.db
Dataset Pathname: pass15
Dataset Creation: Fri Sep 20 11:30:40 2013 by Log Halliburton Casedho

Temperature Calibration Report

Serial Number: Tit1.3_02
Tool Model: Titan
Performed: Tue Jul 30 08:19:25 2013

	Reference	Reading
Low Reference:	71.00 degF	749.90 cps
High Reference:	77.00 degF	801.70 cps

Gain: 0.12
Offset: -15.86
Delta Spacing 2

Gamma Ray Calibration Report

Type / Serial: Probe / 275

SHOP CALIBRATION Wed Sep 18 14:11:37 2013

	Counts/Sec.	Gain	Offset	Jig	Units
Background	79.7				cps
Calibrator	381.1				cps
		0.8062			GAPI/cps

PRIMARY VERIFICATION Wed Sep 18 14:16:11 2013

Background	69.3				cps
Calibrator	309.4				cps
Difference				240.2	GAPI

BEFORE SURVEY VERIFICATION Fri Sep 20 08:18:10 2013

Background	64.0				cps
Calibrator	297.7				cps
Difference				233.7	GAPI

AFTER SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

Cement Bond Log Calibration Report

Serial Number: 275
Tool Model: Probe
Performed: Fri Sep 20 08:40:45 2013

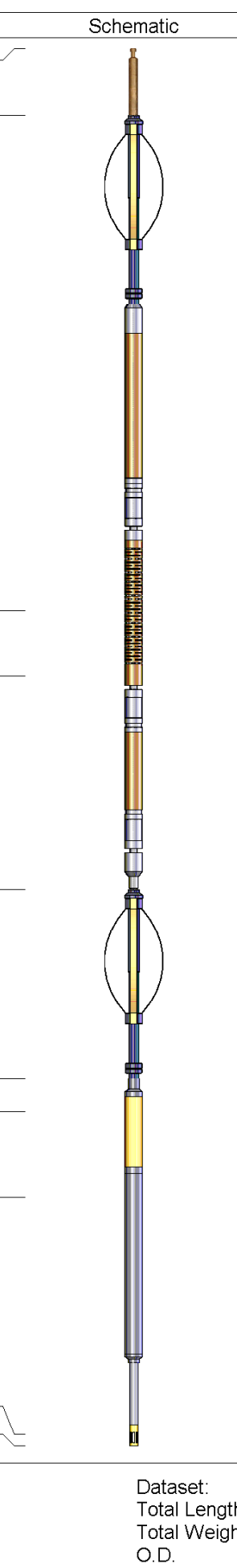
Depth: 165.707 ft
Casing Diameter: 5.5 in

	3' Spacing	5' Spacing	
Signal Zero:	0.15	0.15	mV
Calibrated Amplitude:	62	62	mV
Reading at Signal Zero:	0.00336914	0.00341797	V
Reading in Free Pipe:	0.957153	1.06641	V
Gain:	64.847	58.185	
Offset:	-0.0684785	-0.0488746	

Sensor Report

Database File: bailey.db
Dataset Pathname: pass15
Dataset Creation: Fri Sep 20 11:30:40 2013 by Log Halliburton Casedho

Sensor Name	Offset (ft)
WVF3	12.72
WVF5	11.72
CCL	5.08
GR	3.79
TEMP	0.17
Ex1	0
FrameCnt	0
ErrCnt	0
LLMTEN	0
Telemetry	0

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
STNDCH	21.29					
CENT	20.27		1_CABLEHEAD 1"OD CABLE HEAD	1.02	1.44	3.00
			CENT-Probe (PT_MONO2) Probe 2 3/4 Centralizer	2.88	2.75	35.00
WVF3	12.72		CBL-Probe (275) Probe 2.75" Dual Receiver Bond	8.92	2.75	60.00
WVF5	11.72					
CENT	8.47					
			CENT-Probe (PT_MONO2) Probe 2 3/4 Centralizer	2.88	2.75	35.00
GR	5.58					
CCL	5.08					
GR	3.79		GR-Probe (275) Probe 2.75" 4 Channel Pulse	4.33	2.75	30.00
TEMP	0.17		TEMP-Titan (Tit1.3_02) Titan Temp 1.3875	1.25	1.39	10.00
LLMTEN	0.00					

Dataset: bailey.db: field/well/run1/pass15
Total Length: 21.29 ft
Total Weight: 173.00 lb
O.D. 2.75 in

Company CARRIZO
Well BAILEY 6-26-8-60
Field WILDCAT
County WELD
State CO

HALLIBURTON

CEMENT BOND
LOG