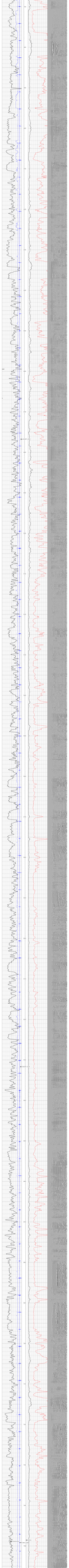
Run No.	Pass No.	Tool Code	Logging Speed (FPM)
1	1	MAC	1800
1	1	MAC	1800



HALLIBURTON

MAIN LOG SECTION

Array Sonic

HALLIBURTON

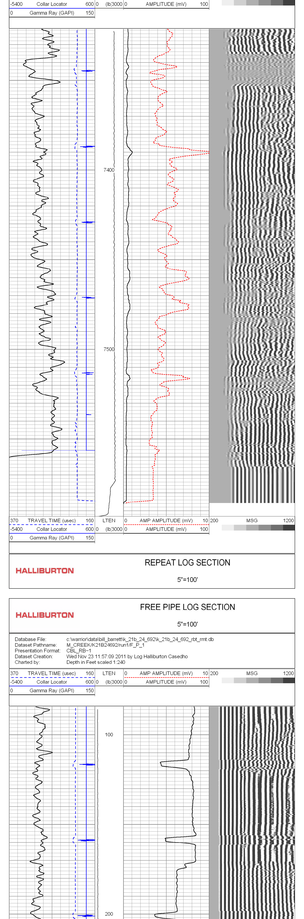
REPEAT LOG SECTION

Array Sonic

Sonic Scanner Service

Sonic Scanner Service

Sonic Scanner Service



HALLIBURTON

REPEAT LOG SECTION

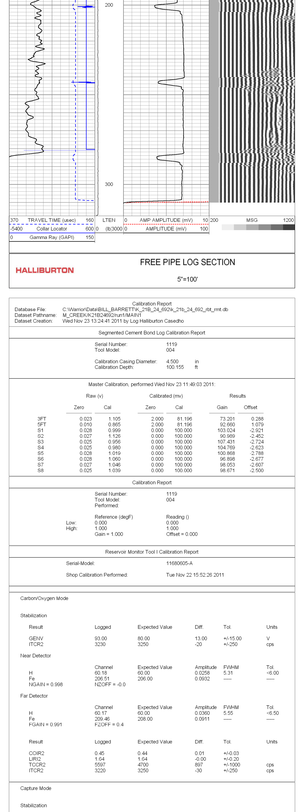
5"x100'

HALLIBURTON

FREE PIPE LOG SECTION

5"x100'

Database File: c:\warrior\data\bill_barrett\k_21b_24_6924_27b_24_692_r84_mrt.db
Dataset Pathname: M_CREEK\K21B24692Crun1F_P_1
Presentation Format: Log
Dataset Creation: Wed Nov 23 11:57:09 2011 by Log Halliburton Casedhp
Charted by: Depth in Feet scaled 1:240



HALLIBURTON

FREE PIPE LOG SECTION

5"x100'

Database File: C:\Warrior\Data\BILL_BARRETT\K_21B_24_6924_27b_24_692_r84_mrt.db
Dataset Pathname: M_CREEK\K21B24692Crun1MAIN1
Dataset Creation: Wed Nov 23 13:24:41 2011 by Log Halliburton Casedhp

Segmented Cement Bond Log Calibration Report

Serial Number:	1119
Tool Model:	004
Calibration Casing Diameter:	4.500 in
Calibration Depth:	100.155 ft

Master Calibration, performed Wed Nov 23 11:46:03 2011

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3FT	0.023	1.105	2.000	81.196	73.261	0.288
5FT	0.010	0.865	2.000	81.196	92.660	1.079
S1	0.028	0.999	0.000	100.000	103.024	-2.921
S2	0.027	1.126	0.000	100.000	90.999	-2.452
S3	0.025	1.126	0.000	100.000	90.999	-2.523
S4	0.025	0.960	0.000	100.000	104.709	-2.623
S5	0.028	1.010	0.000	100.000	100.868	-2.788
S6	0.028	1.060	0.000	100.000	96.898	-2.677
S7	0.027	1.046	0.000	100.000	98.053	-2.607
S8	0.025	1.039	0.000	100.000	98.673	-2.500

Calibration Report

Serial Number:	1119
Tool Model:	004
Performed:	
Reference (degF)	Reading ()
Low:	0.000 0.000
High:	1.000 1.000
Gain = 1.000	Offset = 0.000

Reservoir Monitor Tool I Calibration Report

Serial-Model:	1108005-A
Shop Calibration Performed:	Tue Nov 22 15:52:26 2011

Carbon/Oxygen Mode

Stabilization

Result	Logged	Expected Value	Diff	Tol	Units
GENV	93.00	80.00	13.00	+/-15.00	V
ITCR2	3230	3250	-20	+/-250	cps

Near Detector

	Channel	Expected Value	Amplitude	FWHM	Tol
H	60.16	60.00	0.0258	5.31	+/-0.00
Fe	206.51	206.00	0.0953	-----	-----
H/GAIN = 0.998					
Fe/ DETECTOR = -0.0					

Far Detector

	Channel	Expected Value	Amplitude	FWHM	Tol
H	60.17	60.00	0.0300	5.55	+/-0.00
Fe	209.46	208.00	0.0951	-----	-----
H/GAIN = 0.995					
Fe/GAIN = 0.4					

Result

Result	Logged	Expected Value	Diff	Tol	Units
COR2	0.45	0.44	0.01	+/-0.03	
LIRC	1.64	1.64	-0.00	+/-0.20	
TOCR2	9997	10000	-697	+/-1000	cps
ITCR2	3220	3250	-30	+/-250	cps

Capture Mode

Stabilization

Result	Logged	Expected Value	Diff	Tol	Units
GENV	94.00	80.00	14.00	+/-15.00	V
FCAP	9975	10000	-25	+/-500	cps

Horizontal Water Tank

Result	Logged	Expected Value	Diff	Tol	Units
NIF Normalizer	0.99	0.95	0.04	+/-0.10	
NIF Inel Norm	0.63	0.61	0.02	+/-0.06	
IBAF	1.01	1.05	-0.04	+/-0.10	
KSICF					
SGFN	24.03	24.00	0.03	+/-1.00	cu
SGFF	22.84	22.85	0.00	+/-0.50	cu
FCNT	23524	24000	-476	+/-2000	
FCAP	9955	10000	-45	+/-1000	cps
HFTR	0.88			+/-0.00	
FTTR	0.66			+/-0.00	
NBKG	118			+/-500	cps
FBKG	0			+/-500	cps
RTFI	0.53	0.40	0.13	+/-0.25	usec
RTF	0.48	0.40	0.08	+/-0.25	usec

Calibration Software Modules

HRMTI Module	2011.3.25.0
RMTI Module	2011.3.25.1

Log Data Acquisition Software Modules

HRMTI Module	2011.3.25.0
RMTI Module	2011.3.25.1

Gamma Ray Calibration Report

Type / Serial: 601 / 10002718

SHOP CALIBRATION — Wed Nov 23 11:26:11 2011

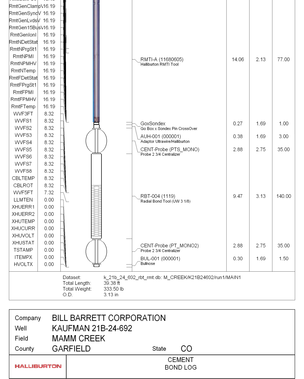
	Counts/Sec	Gain	Offset	Jig	Units
Background	42.1				cps
Calibrator	197.9				cps
		1.5603			GAPI/cps

PRIMARY VERIFICATION — Wed Nov 23 11:29:42 2011

Background	64.3			cps
Calibrator	306.5			cps
Difference			242.2	GAPI

BEFORE SURVEY VERIFICATION

Background	0.0			cps
Calibrator	0.0			cps
Difference			0.0	GAPI

AFTER SURVEY VERIFICATION

Background	0.0			cps
Calibrator	0.0			cps
Difference			0.0	GAPI