HALLIBURTON

CEMENT BOND LOG

Company STORMCAT ENERGY
Well VAUGHAN 2-18
Field B-43
County VAN BURENState ARKANSAS

Company	STORMCAT ENERGY		
Well	VAUGHAN 2-18		
Field	B-43		
County	VAN BUREN	State	ARKANSAS

API No.: 03-141-10357 Serv #: 5858445
Location:
1140' FSL & 1335' FEL
Sec: 18 Twp: 11N Rge: 16W

Other Services
NONE

Permanent Datum	GL	Elevation	1686	Elevation
Log Measured From	KB , 10	Ft. above perm. datum		K.B. 1696 D.F. 1695 G.L. 1686
Drilling Measured From	KB			

Date @ Time Logged	01-MAY-08	Type Fluid in Hole	WATER
Run No.	ONE	Density of Fluid	8.3
Depth - Driller	1210	Fluid Level	50'
Depth - Logger	1166	Cement Top Est. Logged	318
Bottom - Logged Interval	1162	Equipment / Location	1238 / FTSM
Top - Log Interval	185	Recorded by	K. VAUGHN
Max. Recorded Temp.	75	Witnessed by	MICKY PARKER

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
ONE	N/A	SURF	648	9.625	N/A	SURF	638
TWO	8.75	648	1200	5.5	17	SURF	1200

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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 WHCIH 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

CORRELATED TO HALLIBURTON DENSITY LOG DATED 20-MAR-2008
ESTIMATED TOP OF CEMENT AT 318'

CREW: VAUGHN, KNOBELSDORFF, GRAVES
THANK YOU FOR USING HALLIBURTON ENERGY SERVICES PHONE # 479-646-7327

Service Ticket No. 5858445 API No. 03-141-10357 PGM Ver N/A

The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client

EQUIPMENT DATA

ACOUSTIC				GAMMA RAY			
Run No.	ONE	Run No.		Run No.	ONE	Run No.	
Serial No.	070216	Serial No.		Serial No.	070371	Serial No.	
Model No.	Probe275Dig	Model No.		Model No.	Probe275dig	Model No.	
Diameter	2.75	Diameter		Diameter	2.75	Diameter	

LOGGING DATA

General Data

Pass	Depths		Well Head	Speed	Logging Run Comments
No.	From	To	Pressure	Ft/Min	
ONE	1162	185	0	RECORDED	MAIN PASS

	AMPLITUDE		GAMMA RAY		MSG			
Pass	Scale		Scale		Scale		Scale	
No.	L	R	L	R	L	R	L	L
ONE	0	100	0	150	200	1200		

DIRECTIONAL INFORMATION

Maximum Deviation	N/A	deg. @	N/A	KOP	N/A

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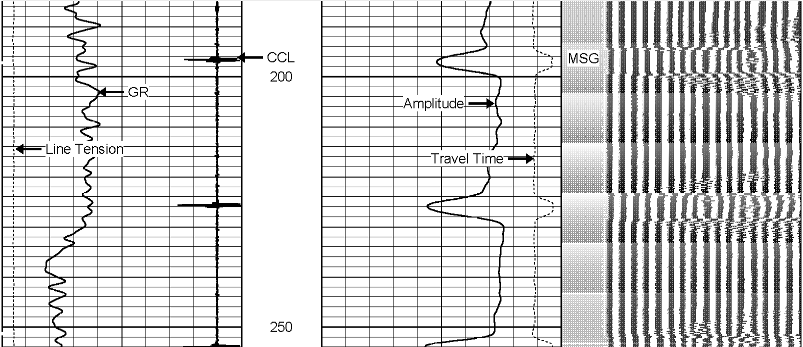
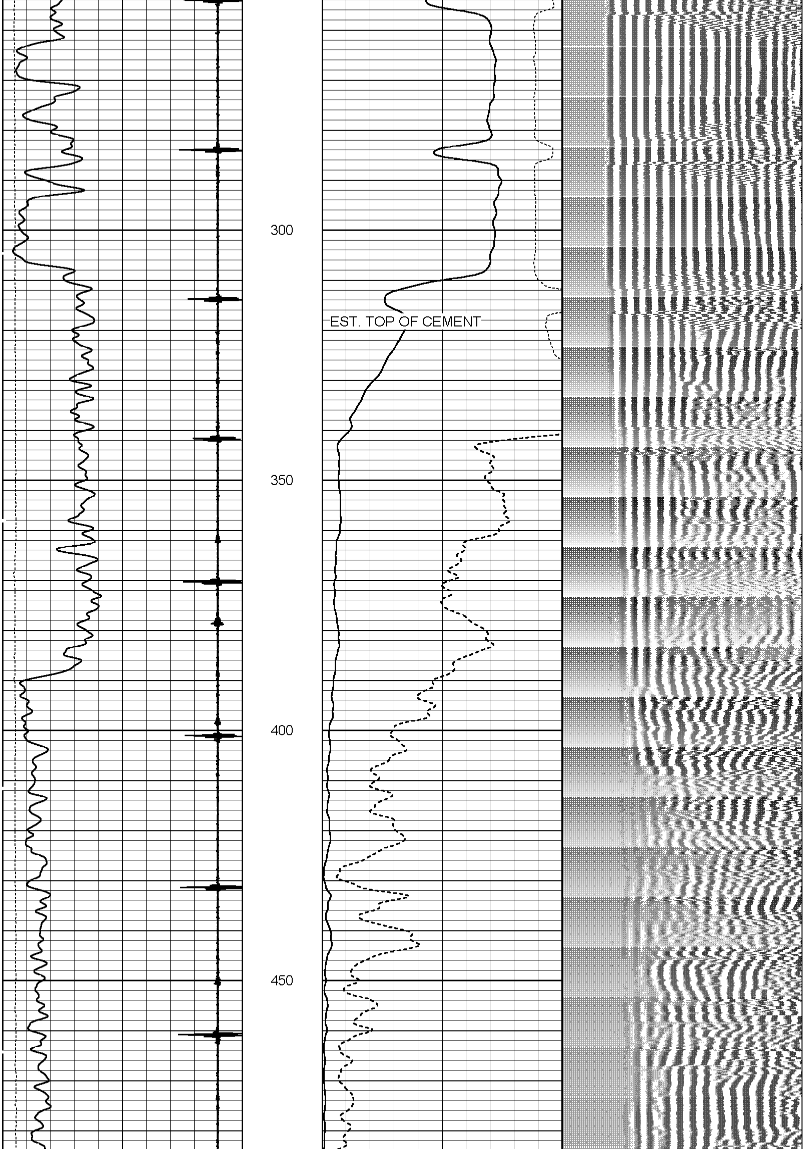
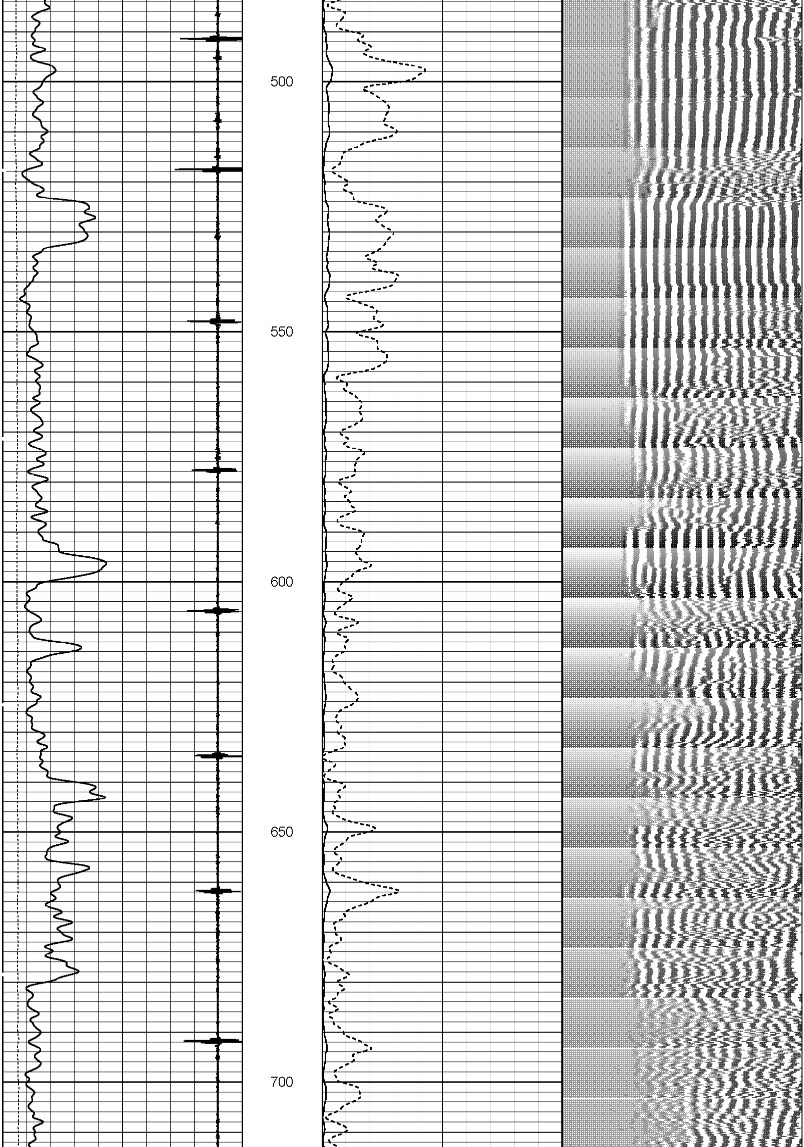
MAIN PASS

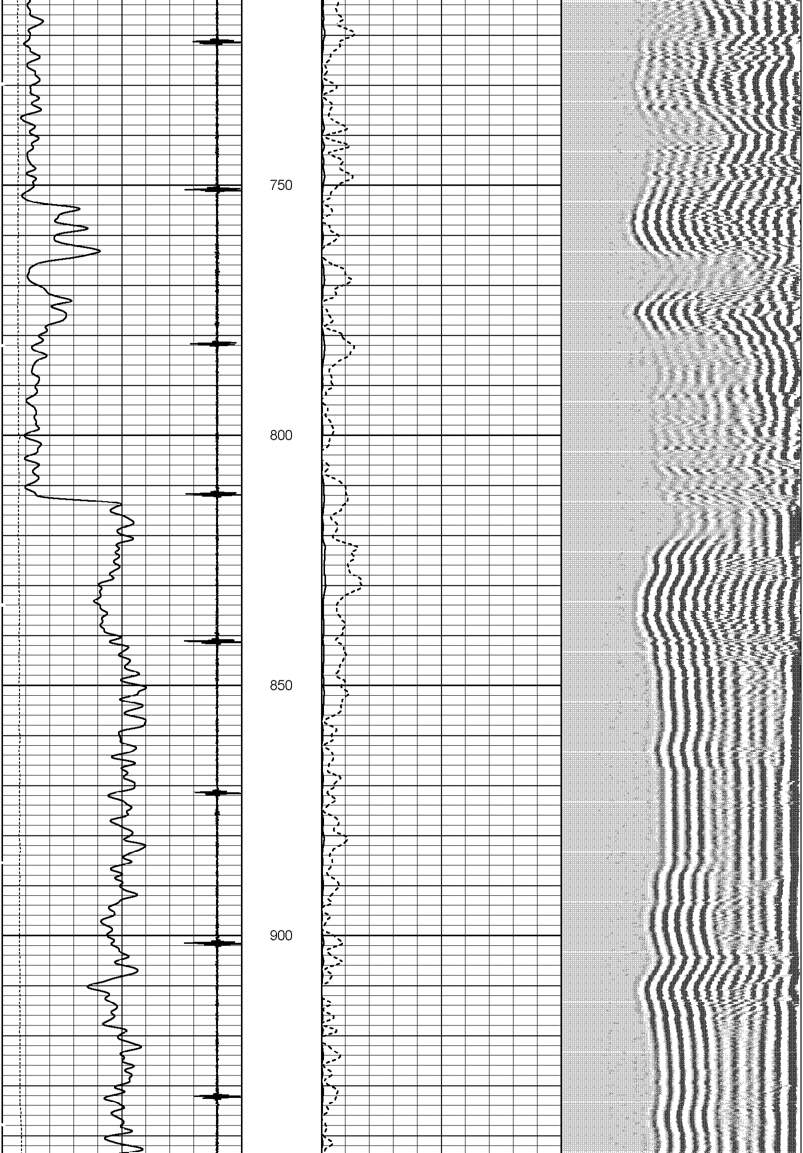
Database File: stormcat_vaughan2_18_cbl.db
Dataset Pathname: pass4
Presentation Format: cbldig
Dataset Creation: Thu May 01 10:17:42 2008 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

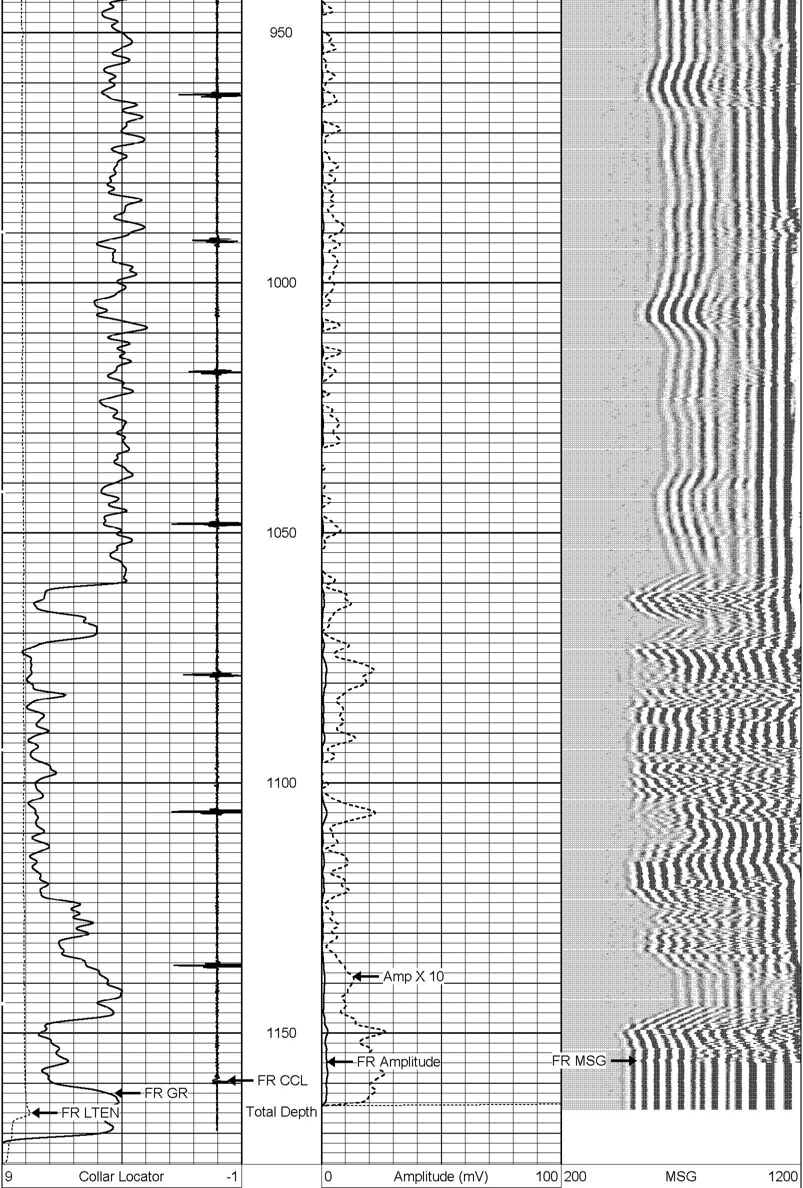
9	Collar Locator	-1	0	Amplitude (mV)	100	200	MSG	1200
0	GR (GAPI)	150	0	Amp X 10 (mV)	10			
0	Line Tension (lb)	3500	190	Travel Time (usec)	290			











0	GR (GAPI)	150	0	Amp X 10 (mV)	10
0	Line Tension (lb)	3500	190	Travel Time (usec)	290

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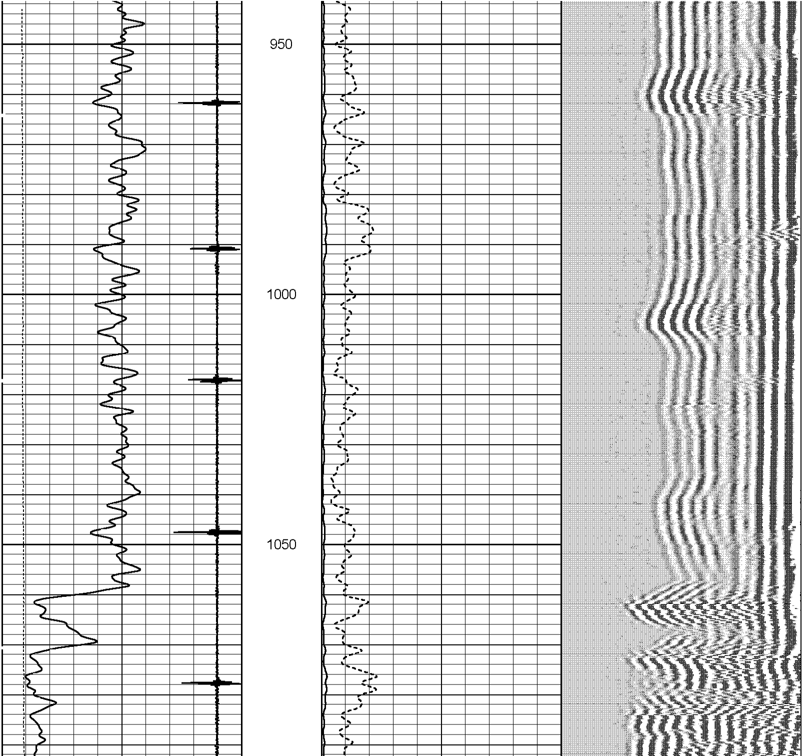
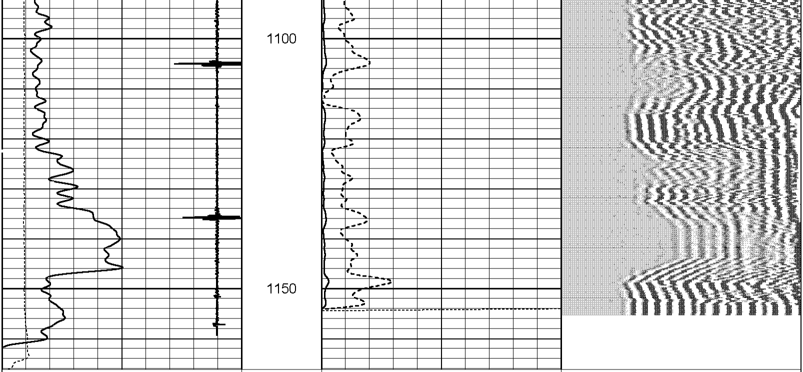
REPEAT PASS

Database File:	stormcat_vaughan2_18_cbl.db
Dataset Pathname:	pass3
Presentation Format:	cbldig
Dataset Creation:	Thu May 01 10:11:14 2008 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

9	Collar Locator	-1	0	Amplitude (mV)	100	200	MSG	1200
0	GR (GAPI)	150	0	Amp X 10 (mV)	10			
0	Line Tension (lb)	3500	140	Travel Time (usec)	240			





9	Collar Locator	-1	0	Amplitude (mV)	100	200	MSG	1200
0	GR (GAPI)	150	0	Amp X 10 (mV)	10			
0	Line Tension (lb)	3500	140	Travel Time (usec)	240			

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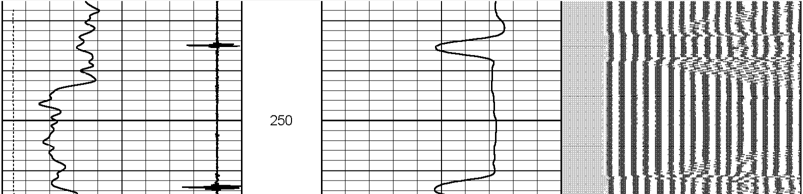
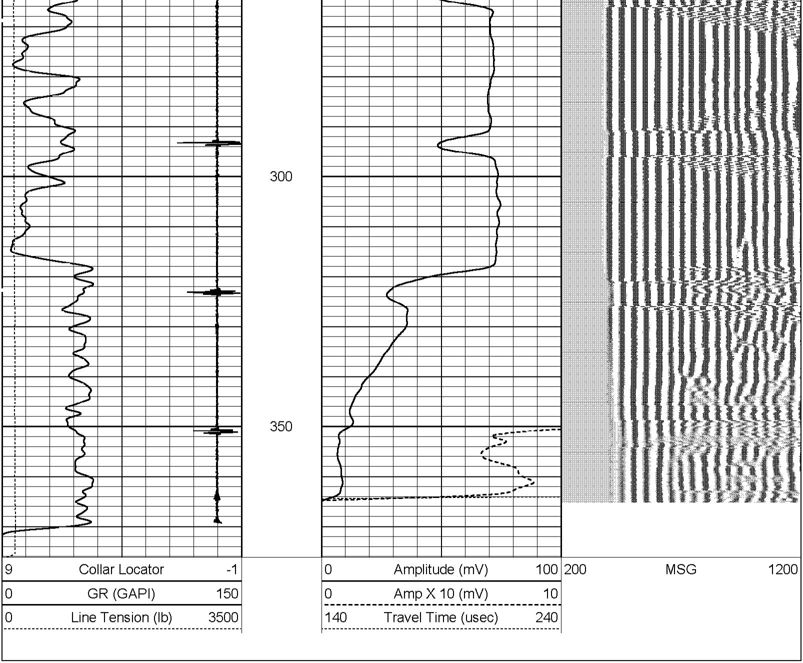
CALIBRATION PASS

Database File:	stormcat_vaughan2_18_cbl.db
Dataset Pathname:	pass2
Presentation Format:	cbldig
Dataset Creation:	Thu May 01 10:03:51 2008 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

9	Collar Locator	-1	0	Amplitude (mV)	100	200	MSG	1200
0	GR (GAPI)	150	0	Amp X 10 (mV)	10			
0	Line Tension (lb)	3500	140	Travel Time (usec)	240			





Log Variables

Database:C:\Warrior\Data\stormcat_vaughan2_18_cbl.db
Dataset: field/well/run1/pass4

Top - Bottom

PPT usec	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF
0	100	1	0.8	5.5	0	1200	75
BOREID in							
8.75							

Calibration Report

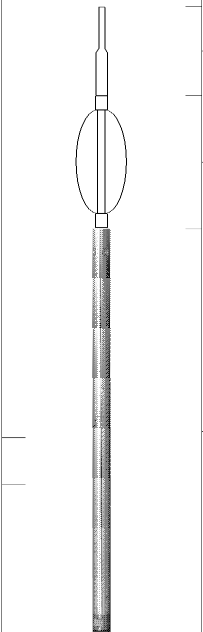
Database File: stormcat_vaughan2_18_cbl.db
Dataset Pathname: pass4
Dataset Creation: Thu May 01 10:17:42 2008 by Log Halliburton Casedho

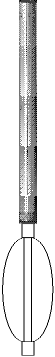
Gamma Ray Calibration Report

Serial Number:	070371	
Tool Model:	Probe275dig	
Performed:	Tue Mar 18 13:20:51 2008	
Calibrator Value:	234.0	GAPI
Background Reading:	25.8	cps
Calibrator Reading:	322.9	cps
Sensitivity:	0.7875	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	070216_4.5		
Tool Model:	Probe275Digital		
Performed:	Thu May 01 10:01:55 2008		
Depth:	270.593	ft	
Casing Diameter:	5.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0	0	mV
Calibrated Amplitude:	71.921	71.921	mV
Reading at Signal Zero:	0.017334	0.0156494	V
Reading in Free Pipe:	0.469019	0.456958	V
Gain:	159.228	162.972	
Offset:	-2.76006	-2.55042	

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			HAL HAL Cable Head	1.92	1.44	10.00
			CENCBL Centralizer CENCBL	2.88	1.44	10.69
WVF3 WVF5	11.88 10.88		CBL-Probe275Digital (070216_4.5) Digital 3' 5' CBL Move voltage to +/- 150 for cal mode	8.75	2.75	92.00



CCL	6.80				
GR	5.42	GR-Probe275dig (070371) Probe Digital Gamma CCL	4.75	2.75	57.00
		CENCBL Centralizer CENCBL	2.88	1.44	10.69
LLMTEN	0.00				

Dataset:	stormcat_vaughan2_18_cbl.db: field/well/run1/pass4
Total Length:	21.18 ft
Total Weight:	180.38 lb
O.D.	2.75 in

Company	STORMCAT ENERGY		
Well	VAUGHAN 2-18		
Field	B-43		
County	VAN BUREN	State	ARKANSAS

HALLIBURTON

CEMENT BOND
LOG
0 PSI