

## CEMENT BOND

TO  
ON  
ES  
SS,

Company	STOBMACAT ENERGY
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Field	Well
B-43	BALLARD 1-18H

APR No:	03-141-10356	Serv #:	5656452
Location:	SHL: 89' FSL & 1109' FEL		
Other Services:			

Company	S
Well	B
Field	B
County	V
Sec:18 Twp:11N Rge:16W	NONE
INTERPRETATION TO BE GIVEN BY APPRAISERS, GROSS NEGLIGENCE	
Comments DATED	
REGISTRY SERV	

Log Measured From	Permanent Datum	Elevation	1682	Elevation
KB	KB	15 Ft above perm. datum	KB	1697
DLing Measured From	KB		DF	1696
			GL	1682
Date @ Time Logged	01-MAY-68	Type Fluid in Hole		
Run No.	ONE	Depth of Fluid	8.3	
			WATER	

Depth - Offset	961	30
Depth - Logtop	1838	550
Bottom - Logtop	1833	/
Top - Log Interval	380	K VAUGHN
Max. Recorded Temp.	85	MICKY PARKER
Production	Whetted by	1 inner

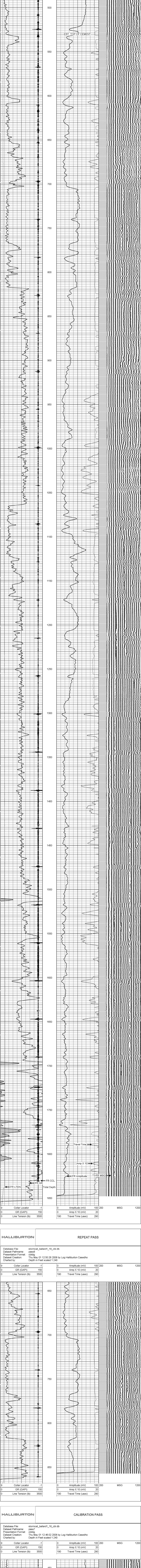
Date / Time Cemented	String	String	String
Primary Sequence			
Expected			
Compressive Strength	psi	hrs	psi
Cement Volume			

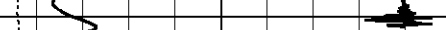
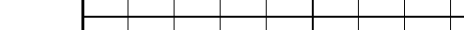
[illegible][illegible]

API No.	03-141-1035
d / or Cementing Data Form	
EQUIPMENT DATA	
	GA
	Drill No.

	Serial No.
	Model No.
	Diameter
LOGGING DATA	
General Data	
Well Head	Speed

<h1 style="margin: 0;">HALLIBURTON</h1> CEMENT BOND LOG										<b>Company STORMCAT ENERGY</b>									
										Well BALLARD-1-18H									
										Field B-43									
										County VAN BUREN					State ARKANSAS				
Location SHL 88'FSL & 110'F FEL					Sec. # 5854942					Cone Services NONE									
Run Number 818					Log From 10 To 1600					Size 5.5 Weight 17 SRF 1600									
TWD 8.97%																			
Permanent Datum Log Measured from Chasing Measured from Run No. 01 JAN 23 Date 1/15/2018 Operator JCH Bitch - Chisel Bottom Logged Interval 1833 Top Logged Interval 380 CEMENTING DATA Cement / Fines Cemented String Primary Spacers String Compressive Strength String Cement Volume String Multi Taps And Xps String Mud Losses / Seepage String Run Number 818 Log From 10 To 1600 Size 5.5 Weight 17 SRF 1600																			
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																			
CORRELATED TO HALLIBURTON DENSITY LOG DATED 23-MAR-2008 ESTIMATED TOP OF CEMENT AT 530'																			
CREW: VAUGHN, KUNSBELSDORFF, GRAVES THANK YOU FOR USING HALLIBURTON ENERGY SERVICES PHONE #479-646-7327																			
Service Ticket No. 5854942      API No. 03-141-10356      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.			Run No.									
Serial No.	070216	Serial No.			Serial No.	070371	Serial No.			Serial No.									
Model No.	Probe275Dig	Model No.			Model No.	Probe275dig	Model No.			Model No.									
Diameter	2.75	Diameter			Diameter	2.75	Diameter			Diameter									
LOGGING DATA																			
General Data																			
Pass		Depths		Well Head Pressure		Speed F/Min		Logging Run Comments											
No.	From	To		Pressure		F/MIN													
ONE	1833	380		0		RECORDED		MAIN PASS											
AMPLITUDE																			
Scale		Scale		Scale		Scale		Scale		Scale		Scale		Scale					
Pass	L	R	L	R	L	R	L	R	L	R	L	R	L	R	L				
ONE	0	100	0	150	200	1200													
DIRECTIONAL INFORMATION																			
Maximum Deviation		N/A		deg. @		N/A		KOP		N/A									
MAIN PASS																			
Database File stormcat_ballard1_18_cbl.db Dataset Pathname: pass9 Presentation Format: ctblgid Creation Date: Thu May 01 12:58:46 2008 by Log Halliburton Caschedo Cratted by: Depth in Feet scaled 1:240																			
9	Collar Locator	-1	0	Amplitude (mV)	100	MSG	1200												
0	GR (GAPI)	150	0	Amp X 10 (mV)	.20														
0	Line Tension (lb)	3500	190	Travel Time (usec)	290														

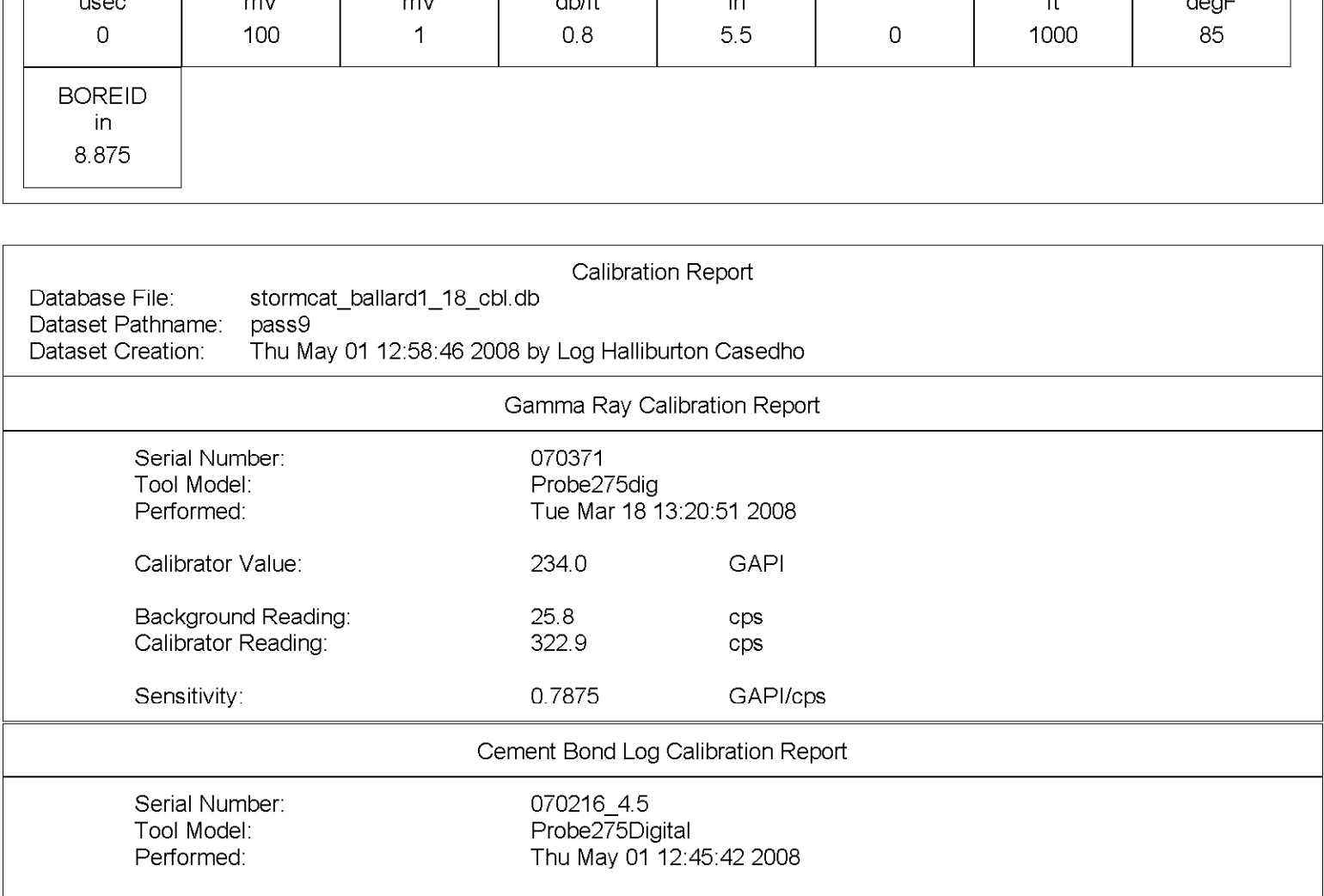


					
9	Collar Locator	-1	0	Amplitude (mV)	100 200
0	GR (GAPI)	150	0	Amp X 10 (mV)	20
0	Line Tension (lb)	3500	150	Travel Time (Use)	260

Database: C:\WarriorData\stormcat\_ballard\_18\_cbl.db  
 Dataset: fieldwell/run1/pass9

### Log Variables

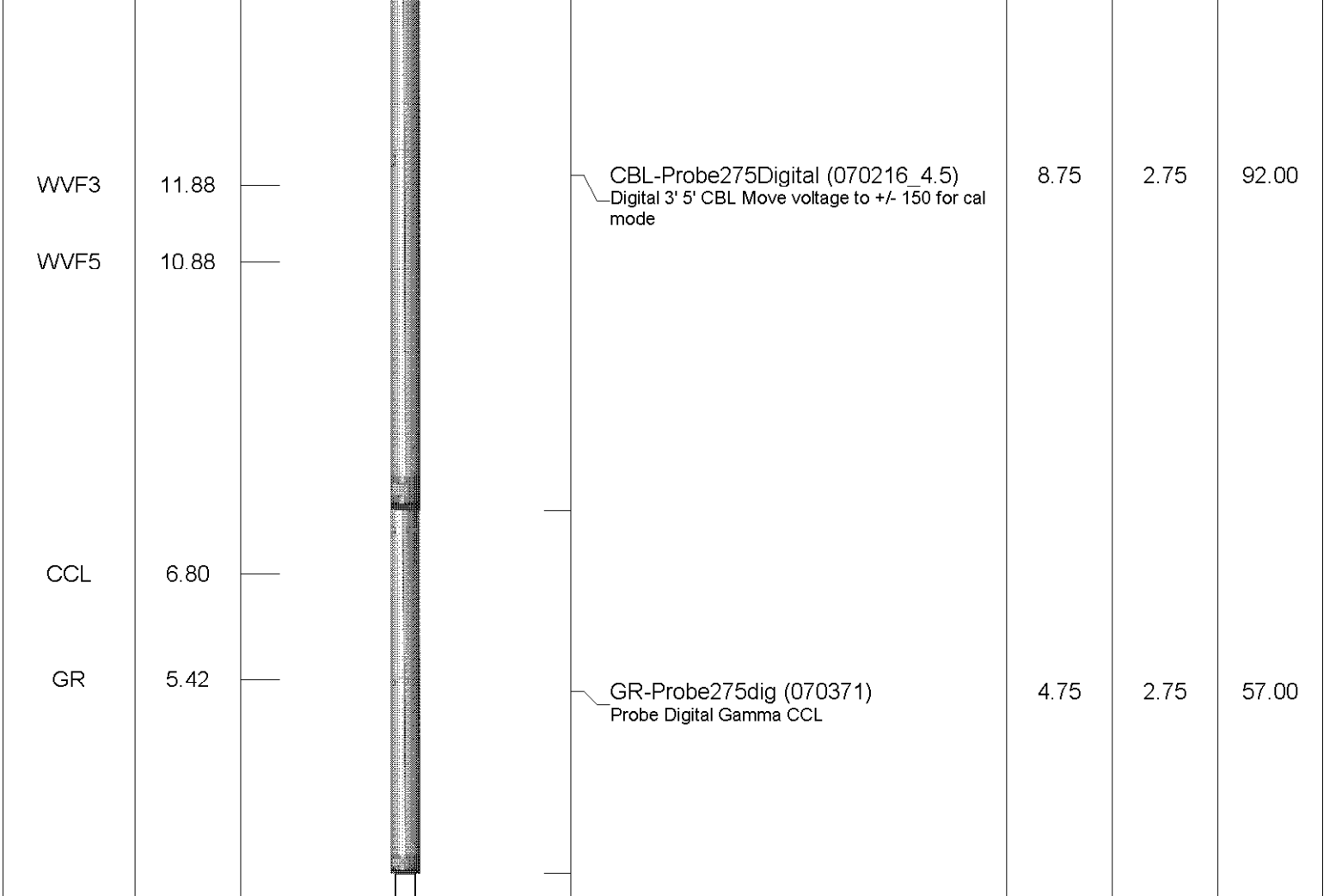
Top - Bottom						
PPT	MAXAMPI	MINAMPI	MINATTN	CASEFQD	PERES	TDPTH
						BOTTEMP

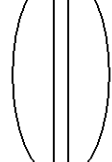


Casing Diameter:		5.5	in			
		3' Spacing		5' Spacing		
Signal Zero:		1		1	mV	
Calibrated Amplitude:		71.921		71.921	mV	
Reading at Signal Zero:		0.0176514		0.0156006	V	
Reading in Free Pipe:		0.472461		0.455493	V	
Gain:		155.936		161.223		
Offset:		-1.75248		-1.51518		

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)

[illegible]

LLMTEN	0.00		CENCBLL Centralizer CENCBLL	2.88	1.44	10.69																												
Dataset: stormcat_ballard_1_18_cbl.db; field/well/run/pass9 Total Length: 21.18 ft Total Weight: 180.38 lb O.D. 2.75 in																																		
<table border="0"> <tr> <td>Company</td> <td colspan="6">STORMCAT ENERGY</td> </tr> <tr> <td>Well</td> <td colspan="6">BALLARD 1-18H</td> </tr> <tr> <td>Field</td> <td colspan="6">B-43</td> </tr> <tr> <td>County</td> <td>VAN BUREN</td> <td>State</td> <td colspan="4">ARKANSAS</td> </tr> </table>							Company	STORMCAT ENERGY						Well	BALLARD 1-18H						Field	B-43						County	VAN BUREN	State	ARKANSAS			
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