HALLIBURTON

CEMENT BOND LOG
GR-CCL

Company	URSA OPERATING COMPANY
Well	Monument Ridge B 44B-08-07-95
Field	Parachute
County	Garfield State CO

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Field Parachute
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API No.: 05-045-22916-0000 Serv #: 903133194
Location: SHL: 905' FSL & 166' FEL
Other Services JB/RMTi
Sec:8 Twp:7S Rge:95 W

Permanent Datum	Ground Level	Elevation	5701.8'	Elevation	K.B. 5718.8' D.F. 5718.8' G.L. 5701.8'
Log Measured From	KB , 17 Ft. above perm. datum				
Drilling Measured From	KB				
Date @ Time Logged	25-FEB-2016	Type Fluid in Hole	Water		
Run No.	One	Density of Fluid	8.4 PPG		
Depth - Driller	7074'	Fluid Level	Full		
Depth - Logger	6843'	Cement Top Est. Logged	n/a		
Bottom - Logged Interval	6830'	Equipment / Location	RS / 10971690		
Top - Log Interval	1700'	Recorded by	Pedro Gonzalez Baqueiro		
Max. Recorded Temp.	n/a	Witnessed by	Luke Grieger		

CEMENTING DATA	Surface	Protection	Production	Liner
	String	String	String	
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	24	surface	60'	16"	75#	surface	60'
Two	12.25"	surface	1709'	8.625"	32#	surface	1709'
Three	7.875"	surface	7074'	4.5"	11.6#	surface	7074'

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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

HES Cement Bond Log First Run in to the hole
Log correlated by KB 17'
Log Interval Percustomer Request
Log Ran in combo with RMTi tool

THANK YOU FOR CHOOSING HALLIBURTON ENERGY ROCKSPRING WY

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MAIN PASS

5"=100'

Database File	monu_ridge_44b_8_7_95.db
Dataset Pathname	MAIN
Presentation Format	cbl_main
Dataset Creation	Thu Feb 25 04:26:38 2016
Charted by	Depth in Feet scaled 1:240

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MAIN PASS

5"=100'

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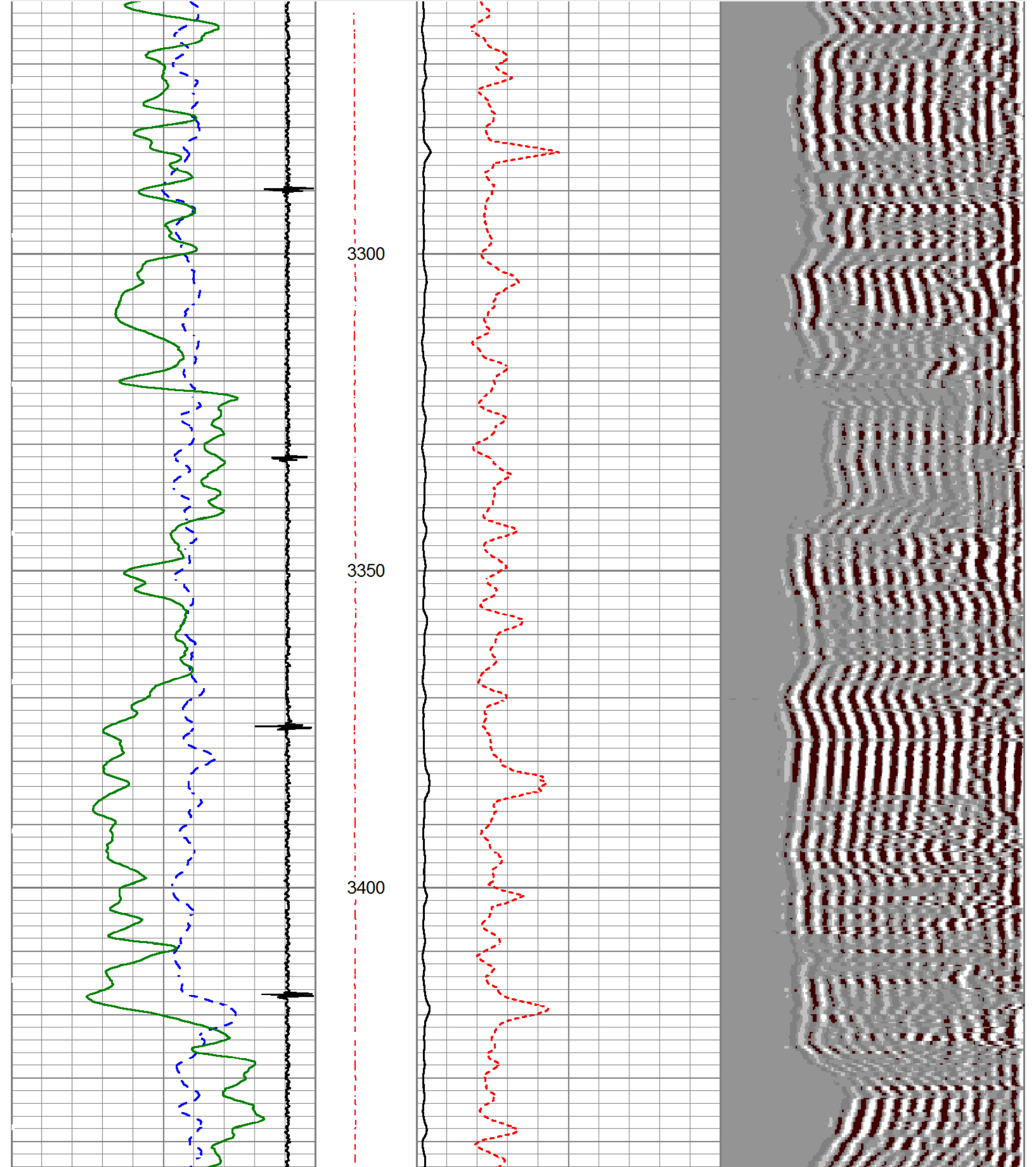
REPEAT PASS

5"=100'

Database File monu_ridge_44b_8_7_95.db
Dataset Pathname REPEAT
Presentation Format cbl_main
Dataset Creation Thu Feb 25 03:56:42 2016
Charted by Depth in Feet scaled 1:240



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REPEAT PASS

5"=100'

Calibration Report

Database File monu_ridge_44b_8_7_95.db
Dataset Pathname MAIN
Dataset Creation Thu Feb 25 04:26:38 2016

Cement Bond Log Shop Calibration Report

Serial-Model: 11836468-A
Calibration Performed: Thu Feb 25 03:01:01 2016

Free Pipe Calibration

	Measured	Units
TT	245.6	usec
Amplitude	663.2	mV
Log Base Line	19.3	mV

Calibration References and Gain

Name	Value	Units
Pipe O.D.	4.500	in
Pipe Weight	11.6	lb/ft
Pipe Ref. Amp.	81.2	mV
Amp. Gain	0.123	

Reservoir Monitor Tool I Calibration Report

Serial-Model: 12270693-A
Shop Calibration Performed: Fri Feb 12 14:31:42 2016

Carbon/Oxygen Mode

Stabilization

Result	Logged	Expected Value	Diff.	Tol.	Units
GENV	93.00	80.00	13.00	+/-15.00	V
ITCR2	3235	3250	-15	+/-250	cps

Near Detector

	Channel	Expected Value	Amplitude	FWHM	Tol.
H	60	60 +/-2	0.0267	5.38	<6.00
Fe	206	206 +/-2	0.0959	-----	-----
NGAIN = 0.997	NZOFF = 0.2				

Far Detector

	Channel	Expected Value	Amplitude	FWHM	Tol.
H	60	60 +/-2	0.0342	6.01	<6.50
Fe	209	208 +/-2	0.0911	-----	-----
FGAIN = 0.991	FZOFF = 0.6				

Flask Temperature 55.3 degF

Result	Logged	Expected Value	Diff.	Tol.	Units
COIR2	0.45	0.45	-0.00	+/-0.02	
LIRI2	1.36	1.36	0.00	+/-0.05	
TCCR2	5189	5000	189	+/-1000	cps
ITCR2	3213	3200	13	+/-250	cps

Sigma Mode

Stabilization

Result	Logged	Expected Value	Diff.	Tol.	Units
GENV	93.00	80.00	13.00	+/-15.00	V
FCAP	9709	10000	-291	+/-500	cps

Horizontal Water Tank

Result	Logged	Expected Value	Diff.	Tol.	Units
N/F Normalizer	1.00	0.95	0.05		
N/F Inel Norm	0.65	0.61	0.04		
RNF	1.00	1.07	-0.07	+/-0.12	
RINC	1.54	1.64	-0.10	+/-0.18	
SGFN	24.10	24.00	0.10	+/-0.50	cu
SGFF	22.94	22.85	0.09	+/-0.50	cu
FSIN	23109	24000	-891	+/-2000	cps
FCAP	9760	10000	-240	+/-1000	cps
NFTR	0.80			<5.00	
FFTR	0.87			<5.00	
NBKG	180			<500	cps
FBKG	96			<500	cps
RTN	0.39	0.40	-0.01	+/-0.10	usec
RTF	0.41	0.40	0.01	+/-0.10	usec

Calibration Software Modules

HRMTI Module 2015.5.4.0
RMTI Module 2015.5.15.1

Log Data Acquisition Software Modules

HRMTI Module 2015.5.4.0
RMTI Module 2015.5.15.1

Gamma Ray Calibration Report

Type / Serial: 002 / 11527445

SHOP CALIBRATION Fri Feb 12 13:43:57 2016

	Counts/Sec.	Gain	Offset	Jig	Units
Background	24.6				cps
Calibrator	314.1				cps
		1.4958			GAPI/cps

PRIMARY VERIFICATION

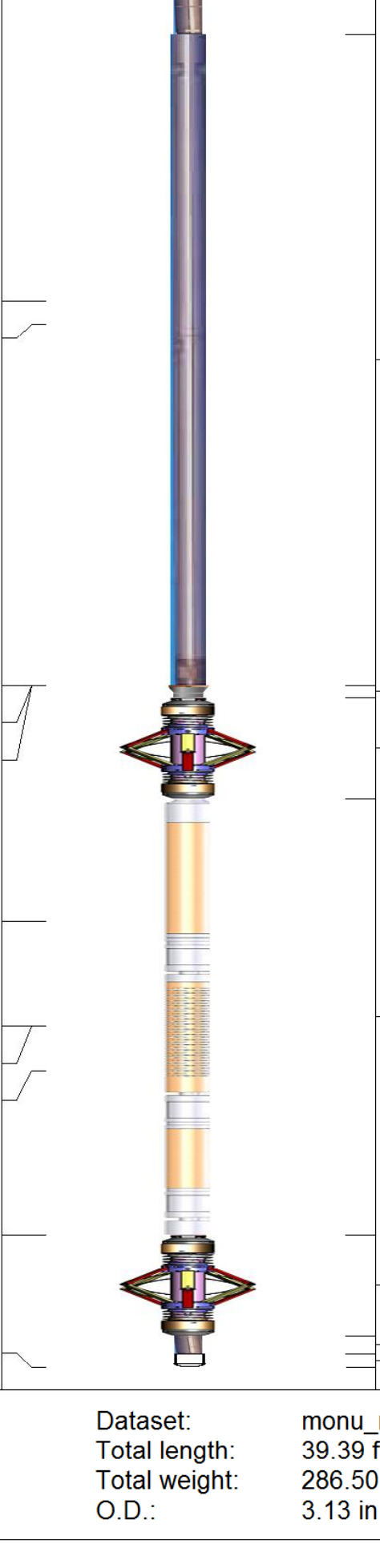
Background	36.1				cps
Calibrator	466.2				cps
Difference				430.1	GAPI

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

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			STNDCH-STND_CH 1.4375 IN CABLE HEAD	1.50	1.44	1.00
CCL	35.82					
GR	33.56		TTTCU-002 (11527445) Through Tubing Telemetry Cartridge - Ultrawire	7.65	1.69	30.00
			XHU-003 (11983708) Crossover Halliburton 1553 to Ultrawire	1.58	1.69	7.00
RmtTFGT	22.91					
RmtTNGT	22.41		RMTI-A (12270693) Halliburton RMTI Tool	14.00	2.13	77.00
RmtFP5V	14.66		X-OVER-GoxSondex Go Box x Sondex Pin CrossOver	0.27	1.69	1.00
RmtNFwvMcsP	14.66					
RmtCommFWa	14.66		CENT-CASTM-CENT CAST M INLINE CENTRALIZER	2.16	3.13	25.00
Temp	9.57					
TT3FT	7.32		HCBLM-A (11836468) Halliburton HCBLM Tool	9.38	2.75	116.00
AMP3FT	7.32					
WVF5FT	6.36					
			CENT-CASTM-CENT CAST M INLINE CENTRALIZER	2.16	3.13	25.00
WVF3FT	2.84		AUH-001 (11072111) Adaptor Ultrawire/Halliburton	0.38	1.69	3.00
LLMTEN	0.00		BUL-001 (000001) Bullnose	0.30	1.69	1.50

Dataset: monu_ridge_44b_8_7_95.db: field/well/run1/MAIN
Total length: 39.39 ft
Total weight: 286.50 lb
O.D.: 3.13 in

Company	URSA OPERATING COMPANY		
Well	Monument Ridge B 44B-08-07-95		
Field	Parachute		
County	Garfield	State	CO

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