Century WIRELINE SERVICES

FULL WAVE SONIC

DHGH-14-04

COMPANY	ATRUM COAL
WELL	DHGH-14-04
WELL EXT	
FIELD	GROUNDHOG
COUNTY	CANADA
STATE	BRITISH COLUMBIA
COUNTRY	---
API NO.	N/A

COMPANY	: ATRUM COAL
WELL	: DHGH-14-04
WELL EXT	:
FIELD	: GROUNDHOG
COUNTY	: CANADA
STATE	: BRITISH COLUMBIA
COUNTRY	: ---
API NO.	: N/A
UNIQ ID	: N/A

LOCATION GROUNDHOG

SECTION: N/A TOWNSHIP: N/A RANGE: N/A

LATITUDE: N/A

LONGITUDE: N/A

PERMANENT DATUM	GL	
DRL MEASURED FROM	GL	
LOG MEASURED FROM	GL	
ELEV. PERM. DATUM	N/A	M

Elevations:		
KB	N/A	M
DF	N/A	M
GL	N/A	M

Other Services:
DENSITY
DIP.
NEUTRON

DATE	04/13/14 13:11:	
DEPTH DRILLER	109.72	M
DEPTH LOGGER	106.34	M
FIRST READING		M
LAST READING		M
BIT SIZE	97.0	MM
CASING -- DRILLER	12.19	M
CASING -- LOGGER		M
CASING O.D.	12.19	CM
CASING THICKNESS	N/A	CM
CASING TYPE	STEEL	
FLUID TYPE	WATER	
FLUID DENSITY	1.00	
FLUID VISCOSITY		
FLUID PH		
MUD SOURCE	N/A	
RM @ MEAS TEMP	N/A @ N/A C	
RMF @ MEAS TEMP	@ C	
RMC @ MEAS TEMP	N/A @ C	
CIRC STOPPED	N/A	
RECORDED BY	T. NEAL	
REMARKS 1	VERTICAL	
REMARKS 2		
REMARKS 3		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

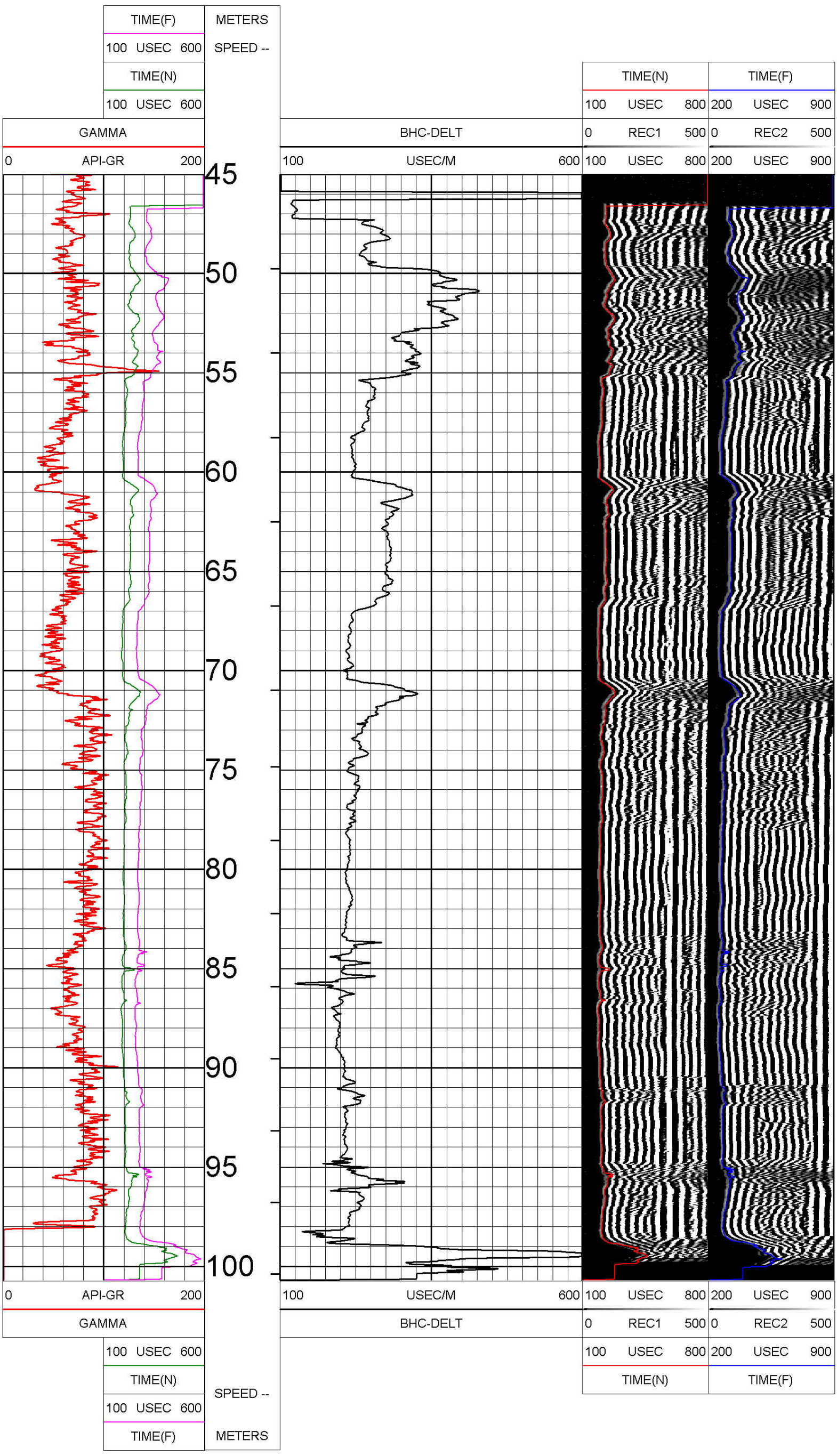
SONIC LOG 1:200 DHGH-14-04 04/13/14

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177

MAGNETIC DECL : 19.5 ELECT. CUTOFF : 75000 BIT SIZE : 97.0

PRESENTATION NAME/DATE = Atrum_9321.0 03/31/2014 Version 3.65 JH



SONIC LOG 1:200 DHGH-14-04 04/13/14

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MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177

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PRESENTATION NAME/DATE = Atrum_9321.0 03/31/2014 Version 3.65 JH

TOOL CALIBRATION DHGH-14-04 04/13/14 13:11:
TOOL 9321A2 TM VERSION 2
SERIAL NUMBER 2412

	DATE	TIME	SENSOR		STANDARD Point1	STANDARD Point2	RESPONSE [CPS] Point1	RESPONSE [CPS] Point2
1	Nov11,08	12:12:15	GAMMA	[API-GR]	0.000	340.000	3.000	321