Century WIRELINE SERVICES

FULL WAVE SONIC

DHGH-14-06

COMPANY	ATRUM COAL
WELL	DHGH-14-06
WELL EXT	
FIELD	GROUNDHOG
COUNTY	CANADA
STATE	BRITISH COLUMBIA
COUNTRY	---
API NO.	N/A

COMPANY	: ATRUM COAL
WELL	: DHGH-14-06
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
NEUTRON
DIP.

DATE	04/18/14 01:03:			
DEPTH DRILLER	114.30	M		
DEPTH LOGGER		M		
FIRST READING		M		
LAST READING		M		
BIT SIZE	97.0	MM		
CASING -- DRILLER	13.71	M		
CASING -- LOGGER		M		
CASING O.D.	13.71	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

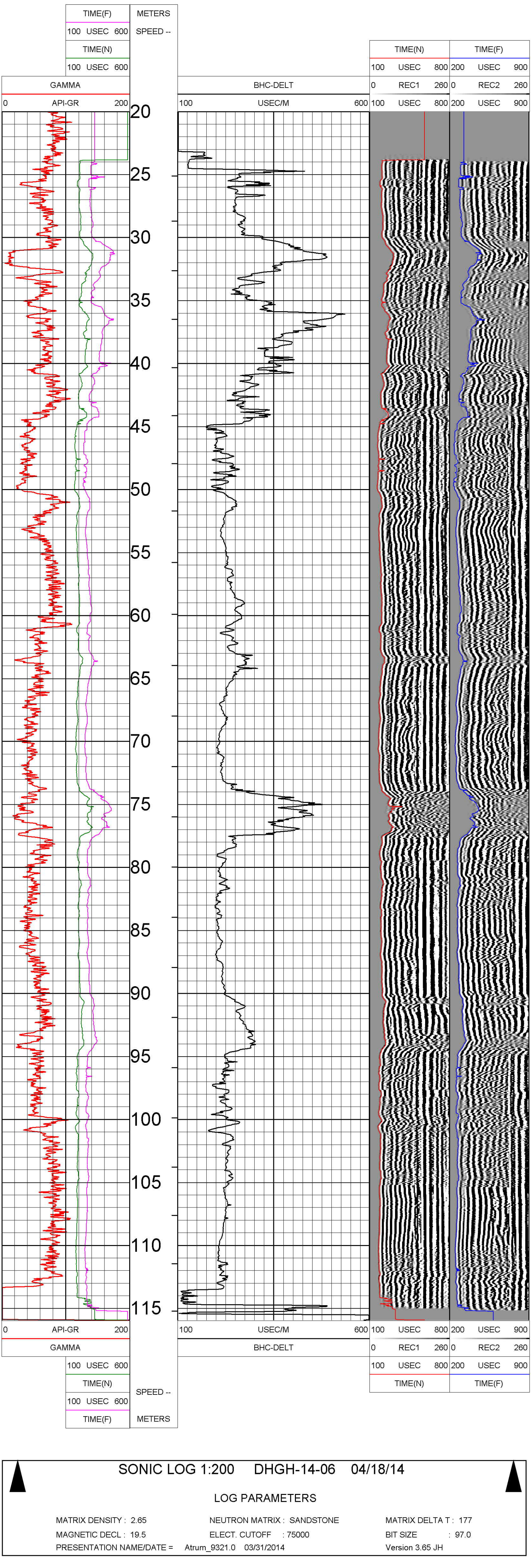
SONIC LOG 1:200 DHGH-14-06 04/18/14

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-14-06 04/18/14

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

TOOL CALIBRATION DHGH-14-06 04/18/14 01:03:
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