Century WIRELINE SERVICES

GAMMA - CALIPER
THRU PIPE DENSITY
DHGH-14-32

COMPANY	:ATRUM COAL		
WELL	:DHGH-14-32		
FIELD	:GROUNDHOG		
COUNTRY	:CANADA		
PROVINCE	:BRITISH COLUMBIA		
LSD	:N/A		
SECTION	:N/A		
TOWNSHIP	:N/A		
RANGE	:N/A		
LICENSE NO.	:N/A		
UNIQUE WELL ID.	:N/A		
PERMANENT DATUM	:GL	ELEVATION KB	N/A
LOG MEASURED FROM	:GL	ELEVATION DF	N/A
DRL MEASURED FROM	:GL	ELEVATION GL	N/A
DATE	:07/31/14	RIG NUMBER	:1
DRILLER TD	:359.34	LOGGER TD	:358.67
BIT SIZE	:97.00	ARRIVAL TIME	:07:10
LOG TOP	:0.00	DEPARTURE TIME	:07:00
LOG BOTTOM	:358.43	CIRC STOPPED	:06:30
LOGGER CASING	:8.22		
DRILLER CASING	:8.22		
CASING TYPE	:SURFACE		
BOREHOLE FLUID	:H2O		
RM TEMPERATURE	:N/A		
MUD RES	:N/A		
MUD WEIGHT	:1.01		
WITNESSED BY	:H.MCKENZIE		
RECORDED BY	:JSTAPELBERG		
REMARKS 1	:		
REMARKS 2	:		

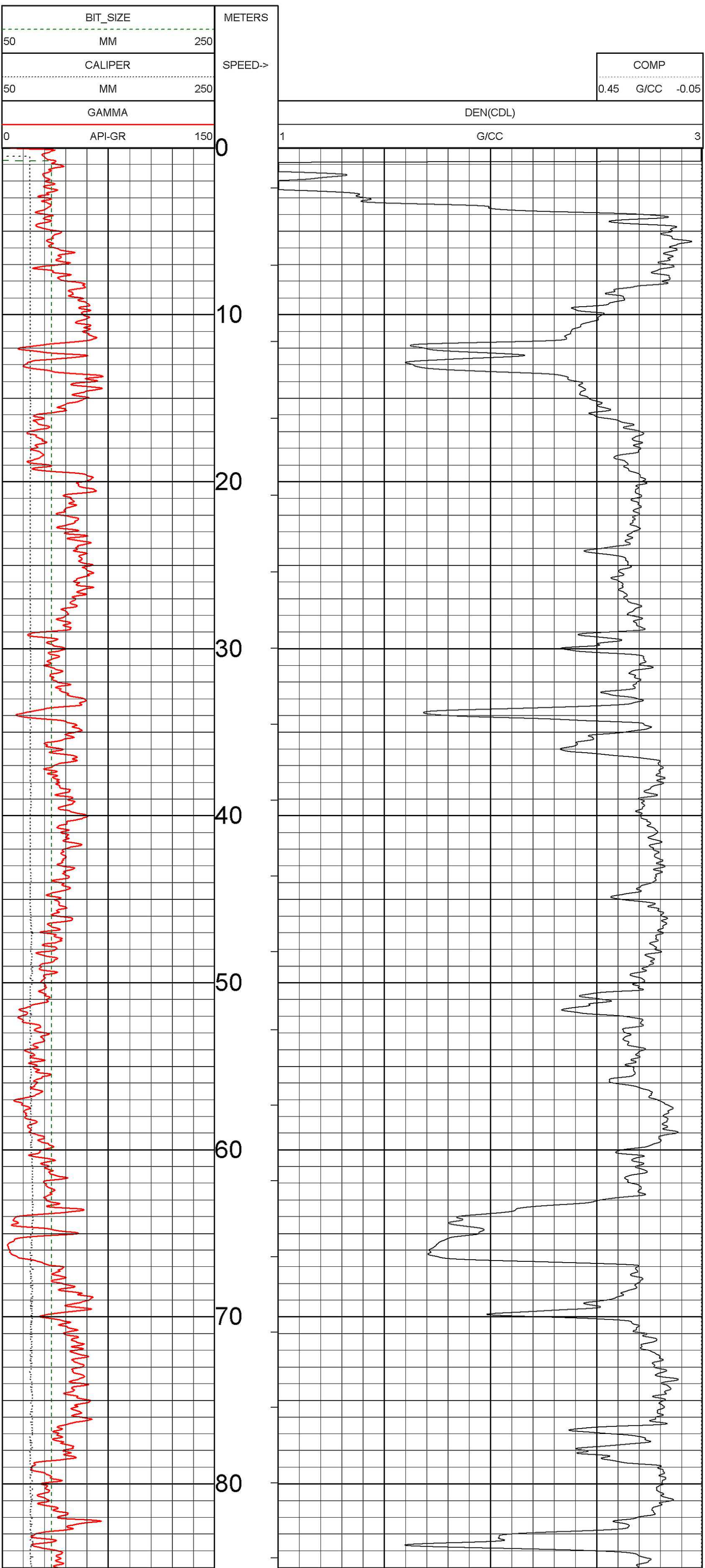
OTHER SERVICES:
NEU,DIP
SON

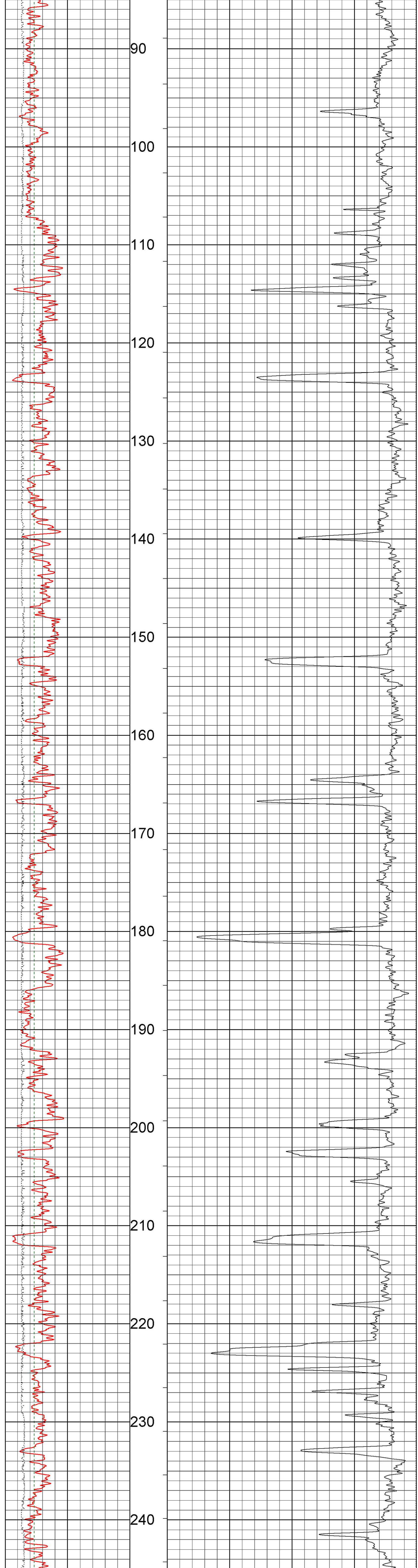
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

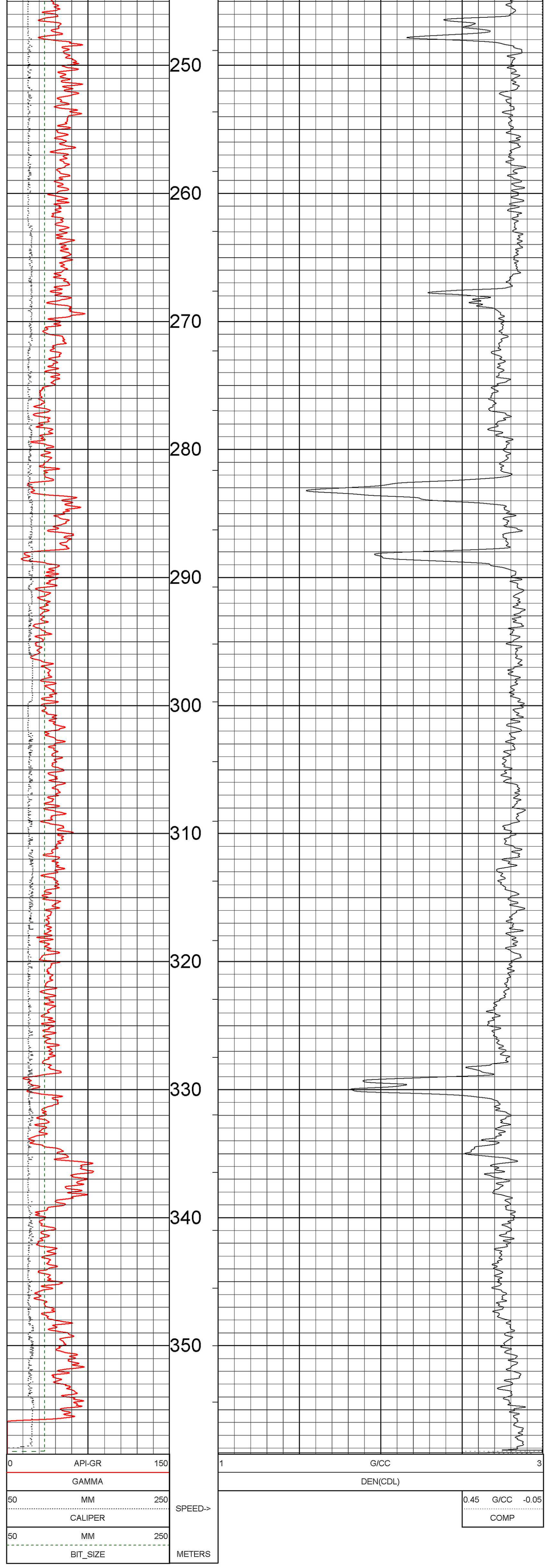
DENSITY TP 1:200 DHGH-14-32 07/31/14

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 19.50	ELECT. CUTOFF : 99999	BIT SIZE : 97.00
PRESENTATION NAME/DATE = Atrum_9239_(IN-PIPE)_(200scale).0 06/12/2014		VERSION = 3.64LH







DENSITY TP 1:200 DHGH-14-32 07/31/14

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NEUTRON MATRIX : SANDSTONE
MATRIX DELTA T : 177
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VERSION = 3.64LH

TOOL CALIBRATION DHGH-14-32 07/31/14 12:01
TOOL 9239C TM VERSION 2025
SERIAL NUMBER 2477

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Jul30,14	04:15:09	GAMMA	0.100	[API-GR]	0.000	[CPS]
	Jul30,14	04:15:09	GAMMA	545.000	[API-GR]	589.000	[CPS]
2	Jun14,13	09:36:44	VOLTAGE	26.400	[MV]	8050.000	[CPS]
	Jun14,13	09:36:44	VOLTAGE	229.200	[MV]	35258.000	[CPS]
3	Mar21,14	14:07:48	CALIPER	100.000	[MM]	168300.000	[CPS]
	Mar21,14	14:07:48	CALIPER	200.000	[MM]	423180.000	[CPS]
4	Mar21,14	14:58:29	DEN(LS)	1.620	[G/CC]	8686.000	[CPS]
	Mar21,14	14:58:29	DEN(LS)	2.612	[G/CC]	1205.000	[CPS]
5	Mar21,14	14:59:03	DEN(SS)	1.590	[G/CC]	31905.000	[CPS]
	Mar21,14	14:59:03	DEN(SS)	2.580	[G/CC]	14021.000	[CPS]
6	Jun14,13	08:59:07	CALIPERL	Default	[CPS]	Default	[CPS]
	Jun14,13	08:59:07	CALIPERL	Default	[CPS]	Default	[CPS]
7	Mar21,14	14:27:18	CURRENT	26.400	[UA]	6623.000	[CPS]
	Mar21,14	14:27:18	CURRENT	229.200	[UA]	23884.000	[CPS]
8	Jun14,13	08:59:07	F	Default	[CPS]		
9	Jun14,13	08:59:07	X	Default	[CPS]		