Century WIRELINE SERVICES

GAMMA - CALIPER
THRU PIPE DENSITY
DHGH-14-24

OTHER SERVICES:
DEN
DIP
NEUTP

COMPANY :ATRUM COAL
WELL :DHGH-14-24
FIELD :GROUNDHOG
COUNTRY :CANADA
PROVINCE :BRITISH COLUMBIA

LSD :GROUNDHOG
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

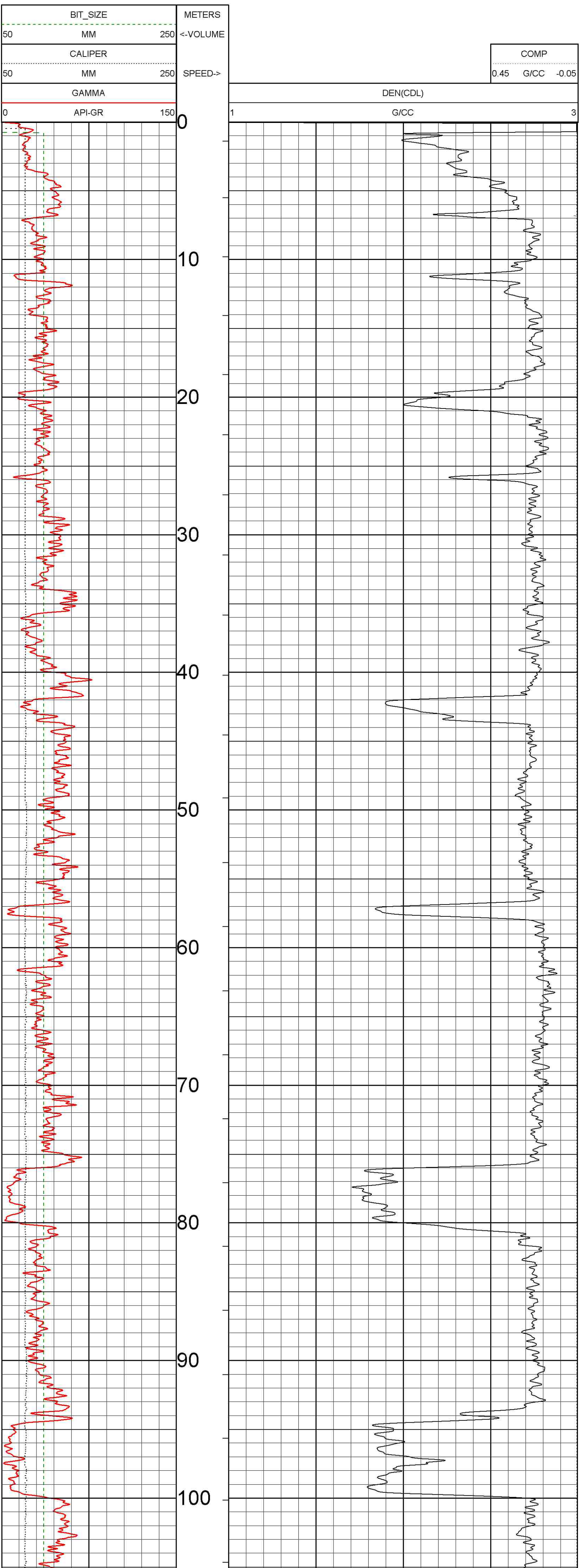
DATE :06/28/14
RIG NUMBER :2
DEPTH DRILLER :123.00
LOGGER TD :126.67
BIT SIZE :98.40
ARRIVAL TIME :10:00
LOG TOP :0.00
DEPARTURE TIME :
LOG BOTTOM :126.67
CIRC STOPPED :N/A
CASING LOGGER :4.57
CASING DRILLER :4.57
CASING TYPE :STEEL
BOREHOLE FLUID :WATER
RM TEMPERATURE :N/A
MUD RES :N/A
MUD WEIGHT :1.00
WITNESSED BY :N/A
RECORDED BY :D. SINKWICH
REMARKS 1 :VERTICAL
REMARKS 2 :

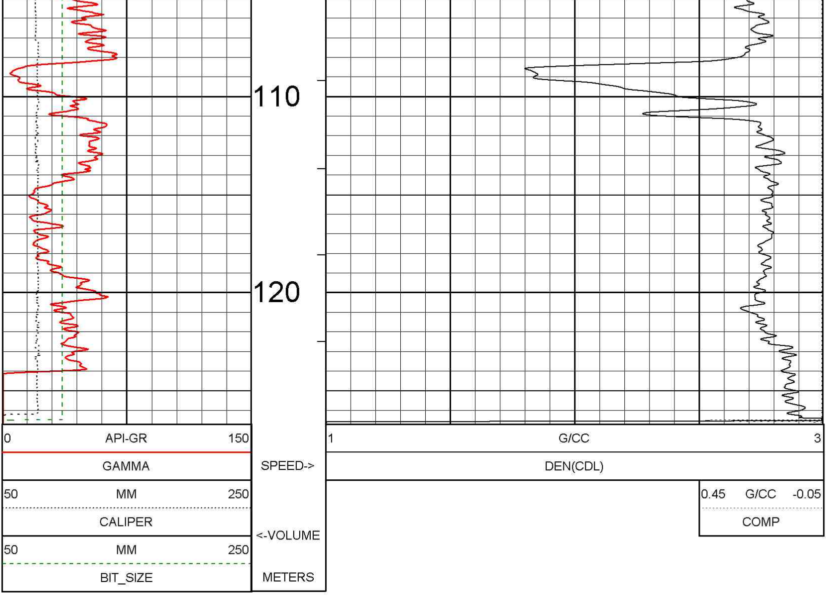
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

DENSITY TP 1:200 DHGH-14-24 06/28/14

LOG PARAMETERS

MATRIX DENSITY : 2.65
NEUTRON MATRIX : SANDSTONE
MATRIX DELTA T : 177
MAGNETIC DECL : 19.5
ELECT. CUTOFF : 75000
BIT SIZE : 98.40
PRESENTATION NAME/DATE = Atrum_9239_(IN-PIPE)_(200scale).0 06/12/2014
VERSION = 3.64LG





DENSITY TP 1:200 DHGH-14-24 06/28/14

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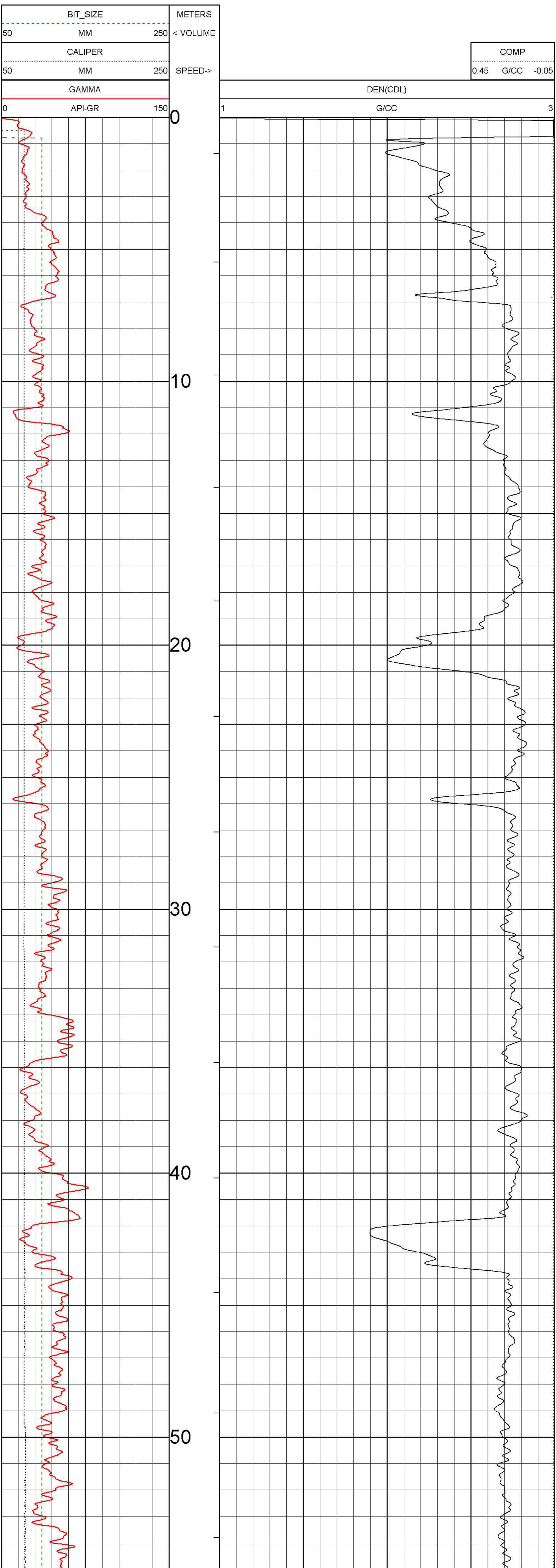
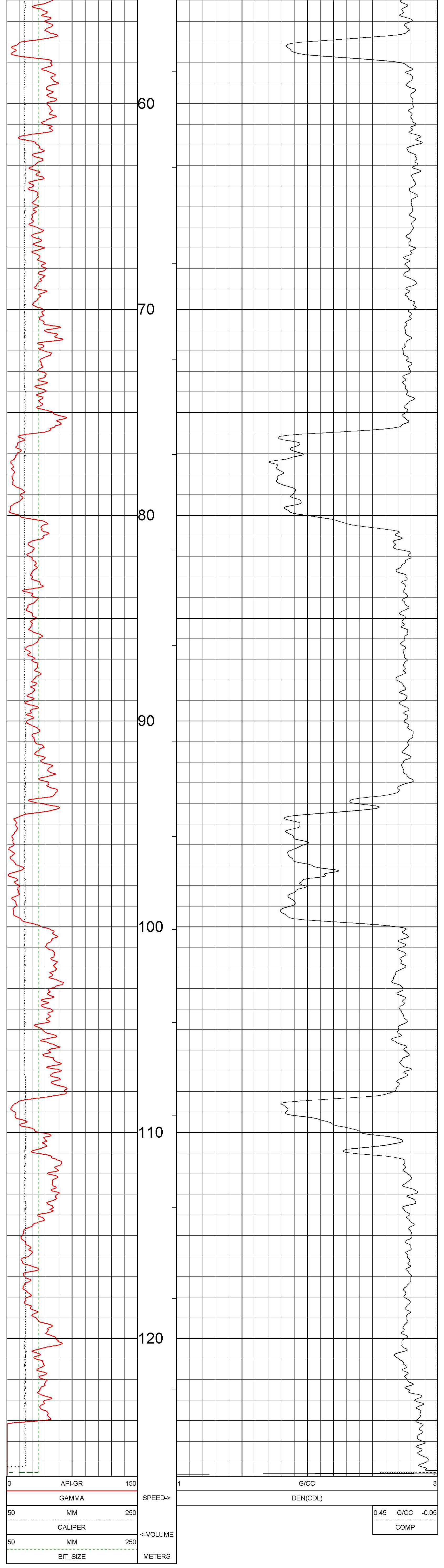
MAGNETIC DECL : 19.5 ELECT. CUTOFF : 75000 BIT SIZE : 98.40
PRESENTATION NAME/DATE = Atrum_9239_(IN-PIPE)_(200scale).0 06/12/2014 VERSION = 3.64LG

DENSITY TP 1:100 DHGH-14-24 06/28/14

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 19.5 ELECT. CUTOFF : 75000 BIT SIZE : 98.40
PRESENTATION NAME/DATE = Atrum_9239_(IN-PIPE)_(100scale).0 06/12/2014 VERSION = 3.64LG





DENSITY TP 1:100 DHGH-14-24 06/28/14

LOG PARAMETERS

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MATRIX DELTA T : 177
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ELECT. CUTOFF : 75000
BIT SIZE : 98.40
PRESENTATION NAME/DATE = Atrum_9239_(IN-PIPE)_(100scale).0 06/12/2014
VERSION = 3.64LG

TOOL CALIBRATION DHGH-14-24 06/28/14 17:21
TOOL 9239C TM VERSION 2025
SERIAL NUMBER 2477

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Mar21,14	15:16:58	GAMMA	0.100	[API-GR]	4.000	[CPS]
	Mar21,14	15:16:58	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	Jun21,14	10:45:39	DEN(SS)	1.620	[G/CC]	31905.000	[CPS]
	Jun21,14	10:45:39	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]		