Century WIRELINE SERVICES

GAMMA - CALIPER
COMPENSATED DENSITY
DHGH-14-05

COMPANY	ATRUM COAL
WELL	DHGH-14-05
FIELD	GROUND HOG
COUNTY	GROUND HOG
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
LOG MEASURED FROM	GL
DRL MEASURED FROM	GL
DATE	04/15/14
RUN NUMBER	ONE
DEPTH DRILLER TD	119.07
BIT SIZE	97.00
LOG TOP	-1.82
LOG BOTTOM	119.07
LOGGER CASING	3.65
DRILLER CASING	3.65
CASING TYPE	SURFACE
BOREHOLE FLUID	H2O
RM TEMPERATURE	N/A
MUD RES	N/A
MUD WEIGHT	1.00
WITNESSED BY	HAYDEN MCKENZIE
RECORDED BY	JAY KELBERG
RUN NUMBER	ONE
REMARKS 1	PIPE WERE LOGGED AND SONIC OPEN HOLE
REMARKS 2	GAMMA RAY LOGGED ONLY VIA PIPE

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

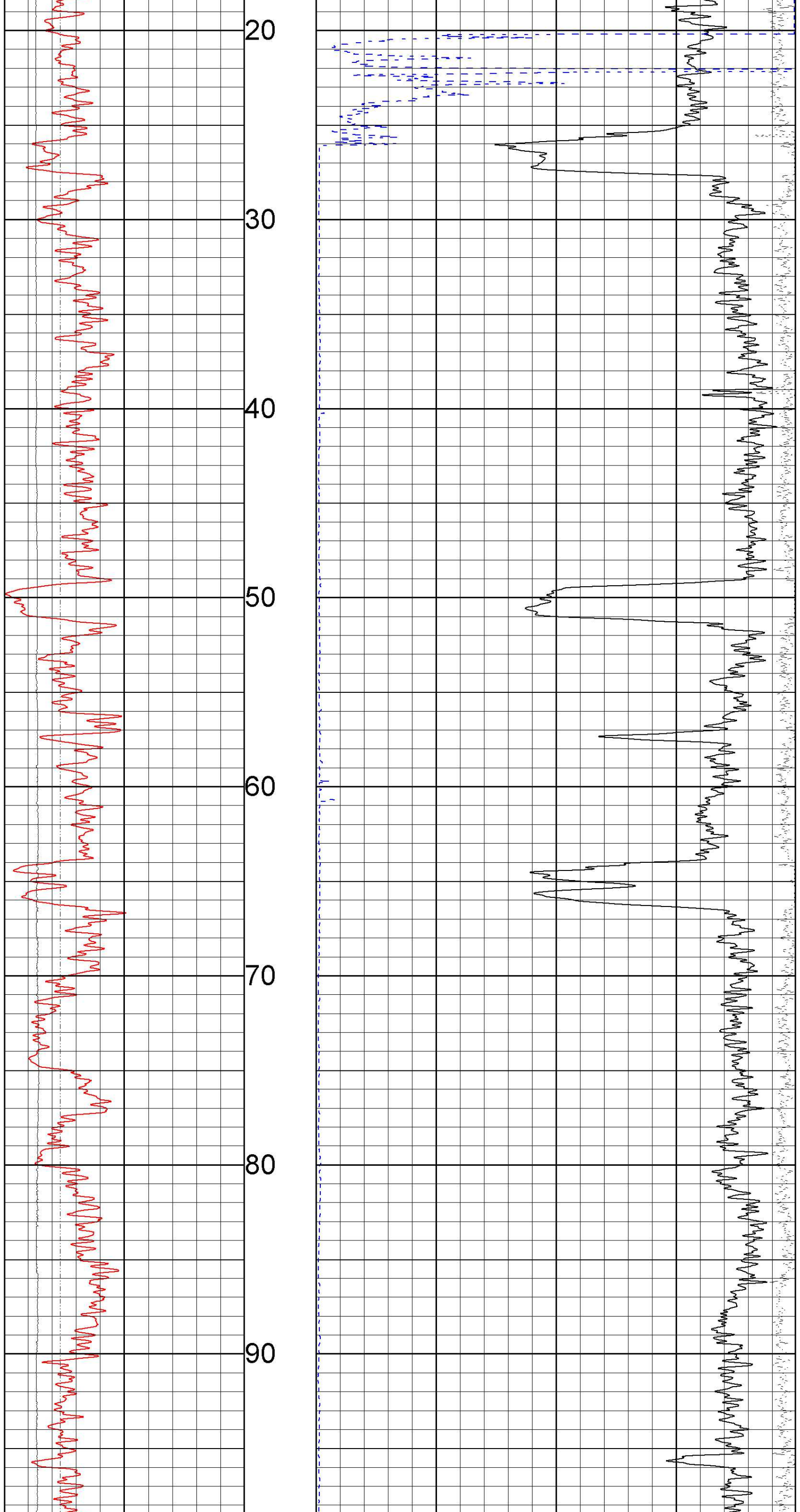
ELEVATION KB	N/A
ELEVATION DF	N/A
ELEVATION GL	N/A
LOG TYPE	DENSITY
LOG DESCRIPTION	1:200
ARRIVED TIME	15:16:51
DEPARTURE TIME	07:00
CIRC STOPPED	N/A

OTHER SERVICES: NEU SON

DENSITY 1:200 THRU PIPE DHGH-14-05 04/15/14

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 19.50	ELECT. CUTOFF : 75000	BIT SIZE : 97.00
PRESENTATION NAME/DATE = 9239_AC_0 09/12/2014		VERSION = 3.64LG



DENSITY 1:200 THRU PIPE DHGH-14-05 04/15/14

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 19.50	ELECT. CUTOFF : 75000	BIT SIZE : 97.00
PRESENTATION NAME/DATE = 9239_AC_0 09/12/2014		VERSION = 3.64LG

TOOL CALIBRATION DHGH-14-05 04/15/14 21:04
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	Apr08,14	21:08:01	VOLTAGE	26.400	[MV]	7903.000	[CPS]
	Apr08,14	21:08:01	VOLTAGE	229.200	[MV]	38060.000	[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	Apr08,14	21:08:24	CURRENT	26.400	[UA]	6831.000	[CPS]
	Apr08,14	21:08:24	CURRENT	229.200	[UA]	26235.000	[CPS]
8	Jun14,13	08:59:07	F	Default	[CPS]		
9	Jun14,13	08:59:07	X	Default	[CPS]		