Century WIRELINE SERVICES

GAMMA - NEUTRON
DHGH-14-26

OTHER SERVICES:
DEN
DIP

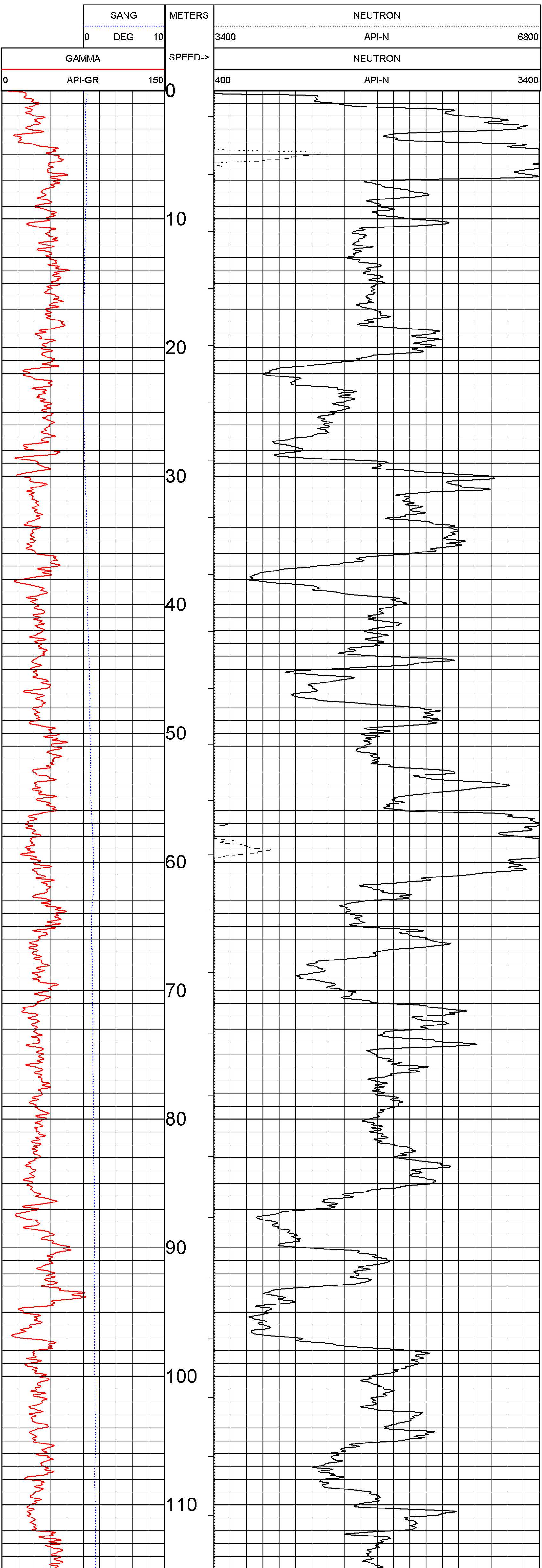
COMPANY	ATRUM COAL		
WELL	DHGH-14-26		
FIELD	GROUNDHOG		
COUNTRY	CANADA		
PROVINCE	BRITISH COLUMBIA		
LSD	N/A		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
LICENSE NO.	N/A		
UNIQUE WELL ID.	N/A		
PERMANENT DATUM	GL	ELEVATION KB	N/A
LOG MEASURED FROM GL		ELEVATION DF	N/A
DRL MEASURED FROM GL		ELEVATION GL	N/A
DATE	07/18/14	RIG NUMBER	2
DRILLER TD	304.48	LOGGER TD	306.35
BIT SIZE	97.00	ARRIVAL TIME	19:00
LOG TOP	0.00	DEPARTURE TIME	12:05
LOG BOTTOM	307.42	CIRC STOPPED	20:15
LOGGER CASING	4.78		
DRILLER CASING	5.18		
CASING TYPE	SURFACE		
BOREHOLE FLUID	H2O		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.01		
WITNESSED BY	H.MCKENZIE		
RECORDED BY	JSTAPELEBRG		
REMARKS 1	NO SONIC OR ATV LOGGED AS		
REMARKS 2	INSTRUCTED BY GEOLOGIST		

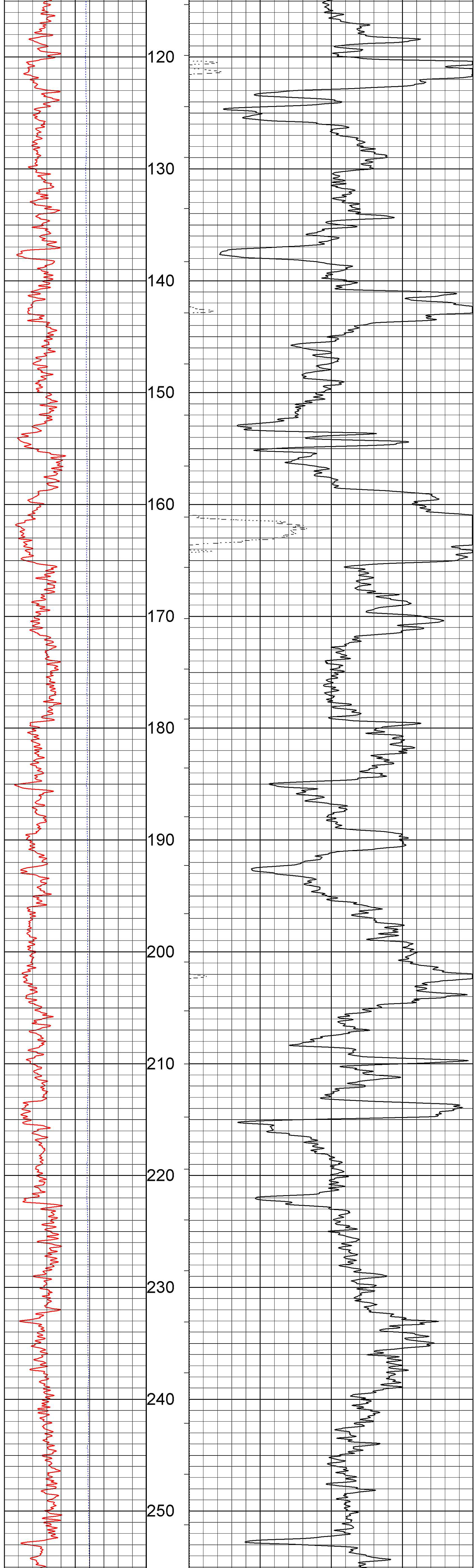
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

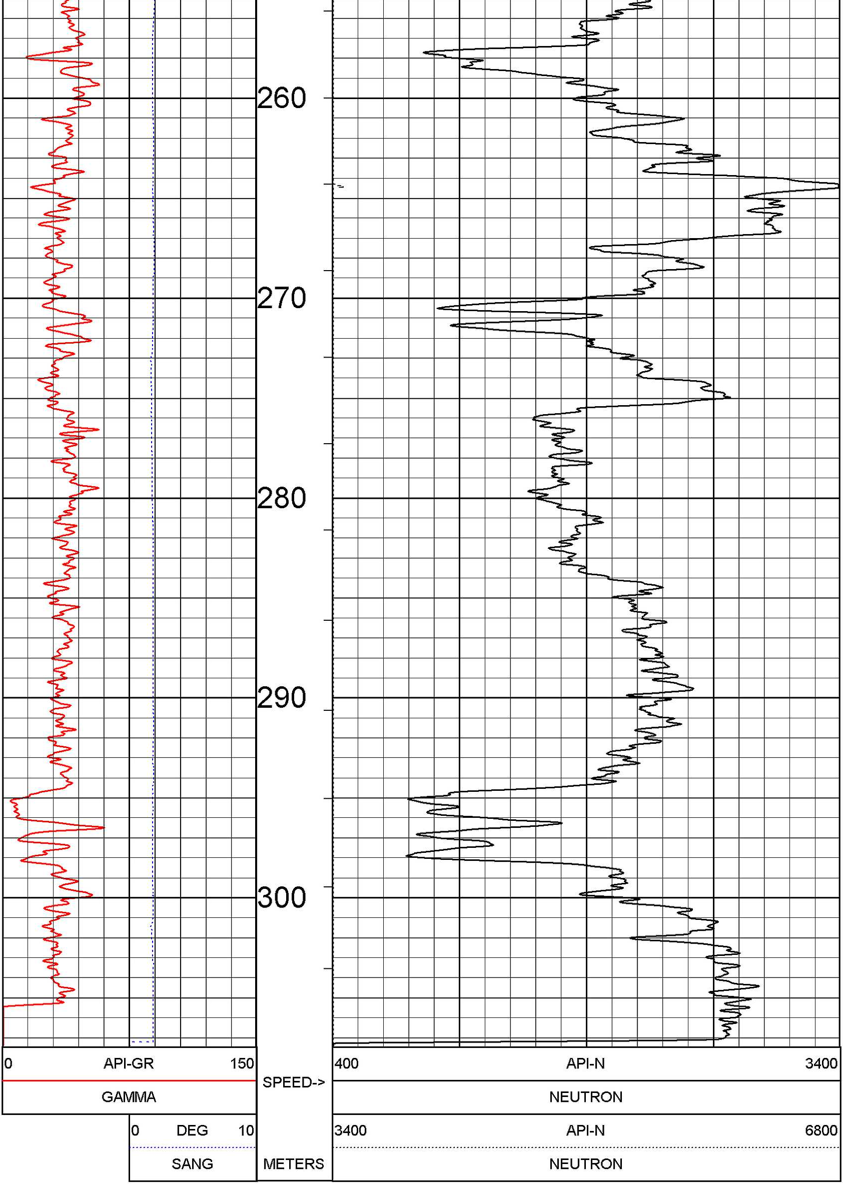
NEUTRON TP 1:200 DHGH-14-26 07/18/14

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_9058_(IN-PIPE)_(200 scale).0 06/13/2014		VERSION = 3.64LH







NEUTRON TP 1:200 DHGH-14-26 07/18/14

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_9058_(IN-PIPE)_(200 scale).0 06/13/2014
VERSION = 3.64LH

TOOL CALIBRATION DHGH-14-26 07/18/14 22:01
TOOL 9057A TM VERSION 4
SERIAL NUMBER 4430

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Jul31,13	11:08:47	GAMMA	0.000	[API-GR]	0.100	[CPS]
	Jul31,13	11:08:47	GAMMA	545.000	[API-GR]	608.000	[CPS]
2	May20,14	15:08:03	NEUTRO	0.000	[API-N]	1.000	[CPS]
	May20,14	15:08:03	NEUTRC	271.000	[API-N]	58.000	[CPS]
3	Apr30,08	14:54:38	SP	0.000	[MV]	325650.000	[CPS]
	Apr30,08	14:54:38	SP	97.000	[MV]	277560.000	[CPS]
4	Jul02,07	08:07:18	RES(16N)	0.000	[OHM-M]	3892.000	[CPS]
	Jul02,07	08:07:18	RES(16	1996.000	[OHM-M]	421781.000	[CPS]
5	Jul02,07	08:07:23	RES(64N)	0.000	[OHM-M]	3324.000	[CPS]
	Jul02,07	08:07:23	RES(64	1990.000	[OHM-M]	426303.000	[CPS]
6	Jul31,13	13:32:13	TEMP	10.000	[DEG_F]	343298.000	[CPS]
	Jul31,13	13:32:13	TEMP	71.000	[DEG_F]	423631.000	[CPS]
7	Jul02,07	08:07:32	RES	0.000	[OHM]	4438.000	[CPS]
	Jul02,07	08:07:32	RES	989.000	[OHM]	162986.000	[CPS]
8	Jun26,07	14:31:00	POR(NEU	Default	[CPS]	Default	[CPS]