Century WIRELINE SERVICES

DIPMETER ANALYSIS

DHGH-14-23

COMPANY	ATRUM COAL
WELL	DHGH-14-23
FIELD	GROUNDHOG
COUNTRY	CANADA
PROVINCE	BRITISH COLUMBIA

OTHER SERVICES:
DENTP
NEUTP

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

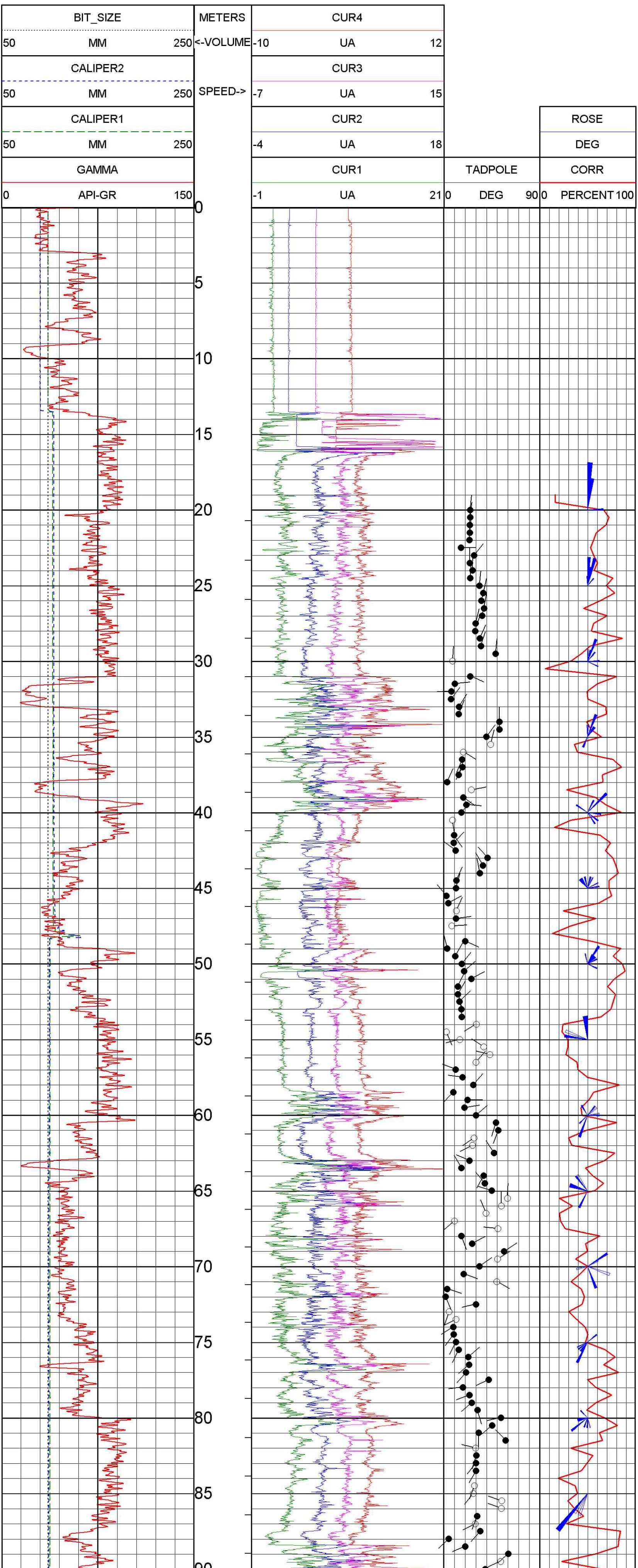
DATE	06/28/14	RIG NUMBER	2
DEPTH DRILLER	126.19	LOGGER TD	154.79+
BIT SIZE	98.4	ARRIVAL TIME	10:00
LOG TOP	0.00	DEPARTURE TIME :	
LOG BOTTOM	124.00	CIRC STOPPED	N/A
CASING LOGGER	3.048		
CASING DRILLER	3.048		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.00		
WITNESSED BY	N/A		
RECORDED BY	D. SINKWICH		
REMARKS 1	VERTICAL		
REMARKS 2	14 M PIPE TO GET TOOL DOWN		

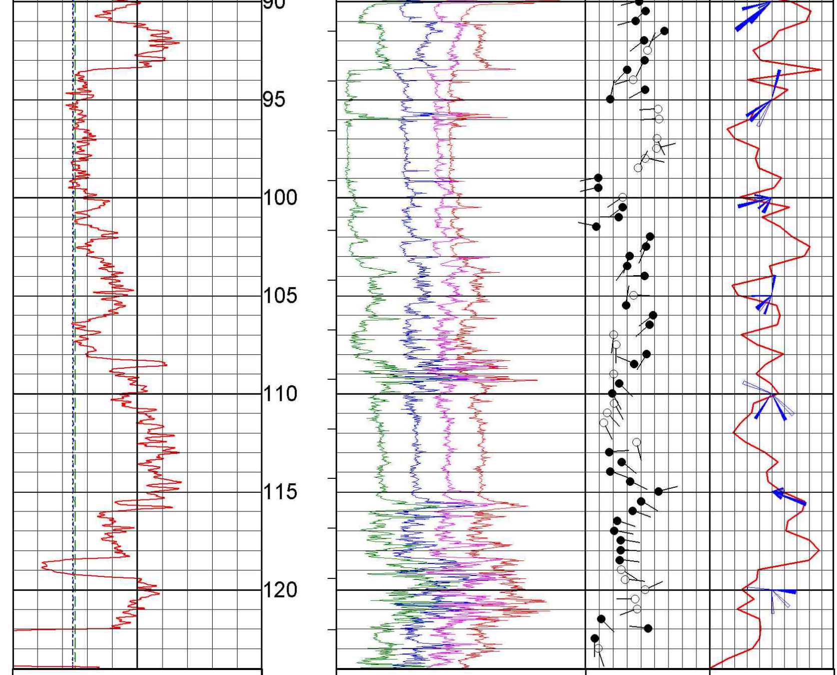
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

FORMATION DIPMETER 1:200 DHGH-14-23 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 : 98.4
PRESENTATION NAME/DATE = Atrum_9411_(200 scale).0 06/12/2014		VERSION = 3.64LG





0 API-GR 150		-1 UA 21	0 DEG 90	0 PERCENT 100
GAMMA		CUR1	TADPOLE	CORR
50 MM 250		-4 UA 18		DEG
CALIPER1	SPEED->	CUR2		ROSE
50 MM 250		-7 UA 15		
CALIPER2	<-VOLUME	CUR3		
50 MM 250		-10 UA 12		
BIT_SIZE	METERS	CUR4		

▲ FORMATION DIPMETER 1:200 DHGH-14-23 06/28/14 ▲

LOG PARAMETERS

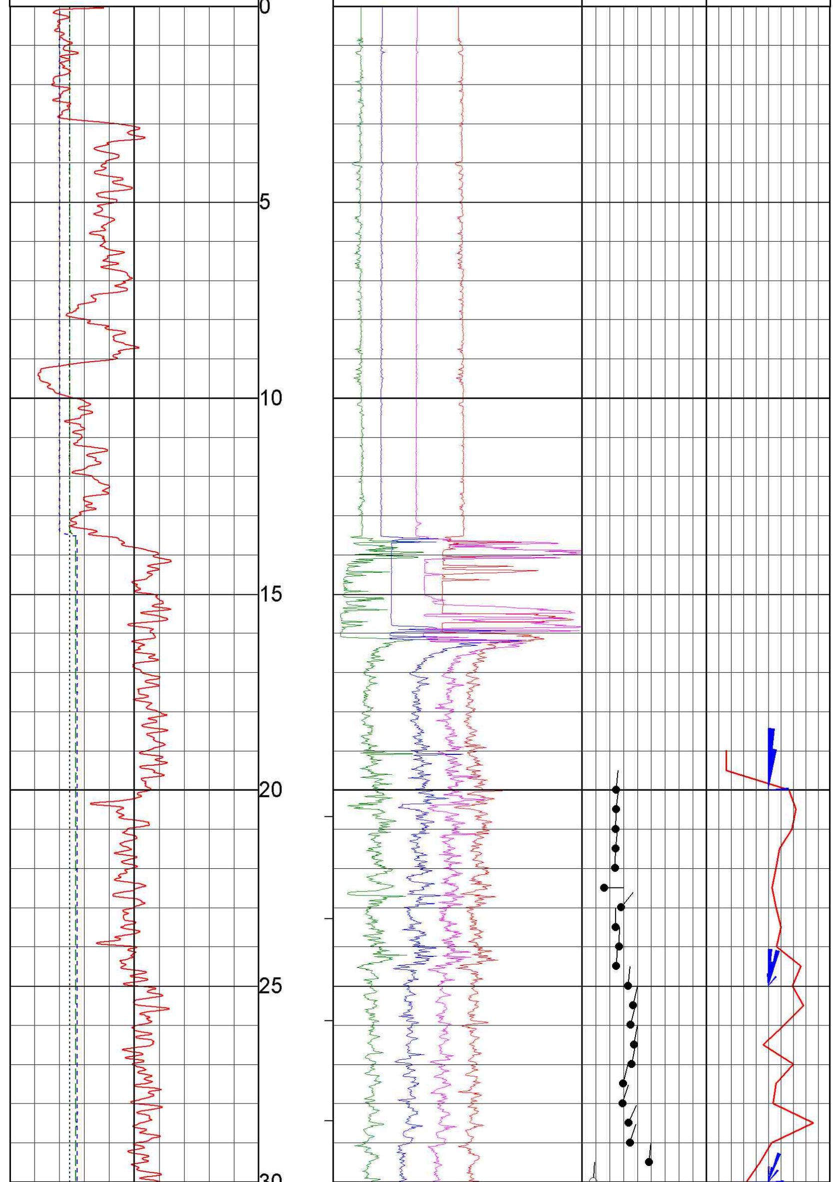
MATRIX DENSITY : 2.65
NEUTRON MATRIX : SANDSTONE
MATRIX DELTA T : 177
MAGNETIC DECL : 19.5
ELECT. CUTOFF : 75000
BIT SIZE : 98.4
PRESENTATION NAME/DATE = Atrum_9411_(200 scale).0 06/12/2014
VERSION = 3.64LG

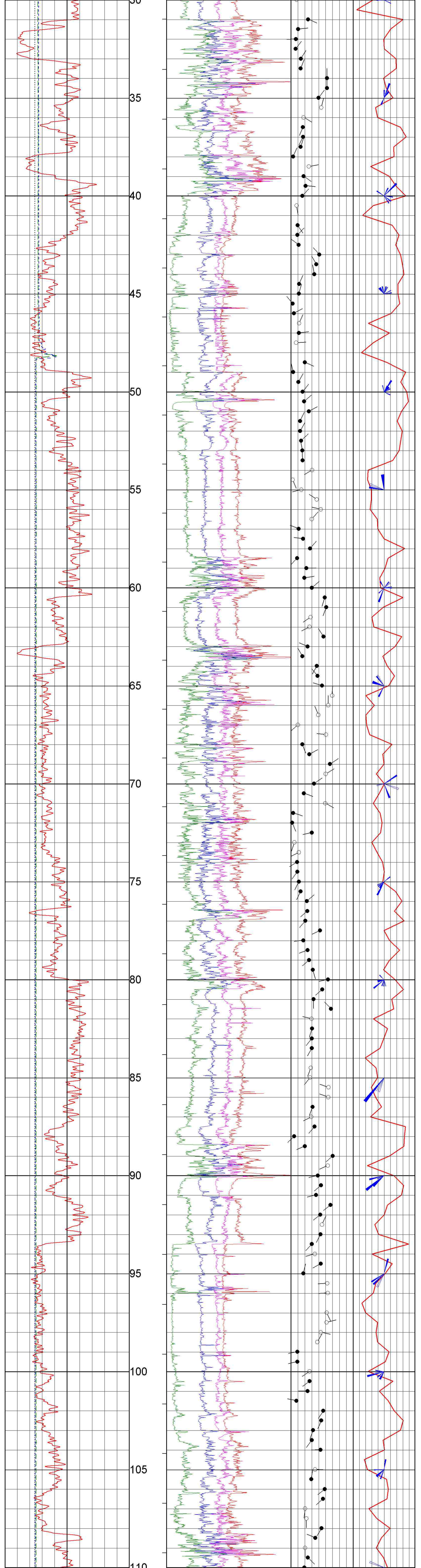
▼ FORMATION DIPMETER 1:100 DHGH-14-23 06/28/14 ▼

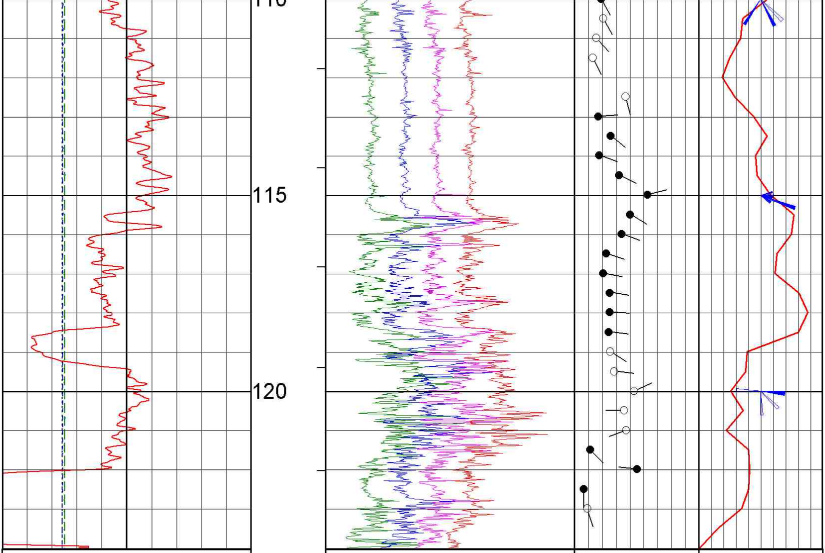
LOG PARAMETERS

MATRIX DENSITY : 2.65
NEUTRON MATRIX : SANDSTONE
MATRIX DELTA T : 177
MAGNETIC DECL : 19.5
ELECT. CUTOFF : 75000
BIT SIZE : 98.4
PRESENTATION NAME/DATE = Atrum_9411_(100 scale).0 06/12/2014
VERSION = 3.64LG

BIT_SIZE	METERS	CUR4		
50 MM 250	<-VOLUME	-10 UA 12		
CALIPER2		CUR3		
50 MM 250	SPEED->	-7 UA 15		
CALIPER1		CUR2		ROSE
50 MM 250		-4 UA 18		DEG
GAMMA		CUR1	TADPOLE	CORR
0 API-GR 150		-1 UA 21	0 DEG 90	0 PERCENT 100







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CALIPER1	SPEED->	CUR2		ROSE
50 MM 250		-7 UA 15		
CALIPER2	<-VOLUME	CUR3		
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BIT_SIZE	METERS	CUR4		

FORMATION DIPMETER 1:100 DHGH-14-23 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 : 98.4
PRESENTATION NAME/DATE = Atrum_9411_(100 scale).0 06/12/2014
VERSION = 3.64LG

TOOL CALIBRATION DHGH-14-23 06/28/14 09:53
TOOL 9411A TM VERSION 6
SERIAL NUMBER 4504

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep04,13	18:17:51	GAMMA	0.100	[API-GR]	0.000	[CPS]
	Sep04,13	18:17:51	GAMMA	545.000	[API-GR]	519.000	[CPS]
2	May04,10	14:04:32	VOLTAGE	50.000	[MV]	400.000	[CPS]
	May04,10	14:04:32	VOLTAG	280.000	[MV]	1900.000	[CPS]
3	Jan13,14	09:54:46	CUR1	5.580	[UA]	8180.000	[CPS]
	Jan13,14	09:54:46	CUR1	13.250	[UA]	22864.000	[CPS]
4	Jan13,14	09:54:56	CUR2	5.580	[UA]	9045.000	[CPS]
	Jan13,14	09:54:56	CUR2	13.250	[UA]	22151.000	[CPS]
5	Jan13,14	09:55:08	CUR3	5.580	[UA]	8711.000	[CPS]
	Jan13,14	09:55:08	CUR3	13.250	[UA]	21601.000	[CPS]
6	Jan13,14	09:55:14	CUR4	5.580	[UA]	8241.000	[CPS]
	Jan13,14	09:55:14	CUR4	13.250	[UA]	23064.000	[CPS]
7	Dec07,13	21:40:24	CALIPER	100.000	[INCH]	5085.000	[CPS]
	Dec07,13	21:40:24	CALIPER	152.000	[INCH]	6983.000	[CPS]
8	Dec07,13	21:40:54	CALIPER	100.000	[INCH]	3877.000	[CPS]
	Dec07,13	21:40:54	CALIPER	152.000	[INCH]	5952.000	[CPS]