Century WIRELINE SERVICES

DIPMETER ANALYSIS

DHGH-14-16

COMPANY	ATRUM COAL		
WELL	DHGH-14-16		
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	06/21/14	RIG NUMBER	2
DEPTH DRILLER	224.94	LOGGER TD	223.94
BIT SIZE	98.4	ARRIVAL TIME	10:00
LOG TOP	0.00	DEPARTURE TIME :	
LOG BOTTOM	223.00	CIRC STOPPED	N/A
CASING LOGGER	16.25		
CASING DRILLER	16.76		
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	:		

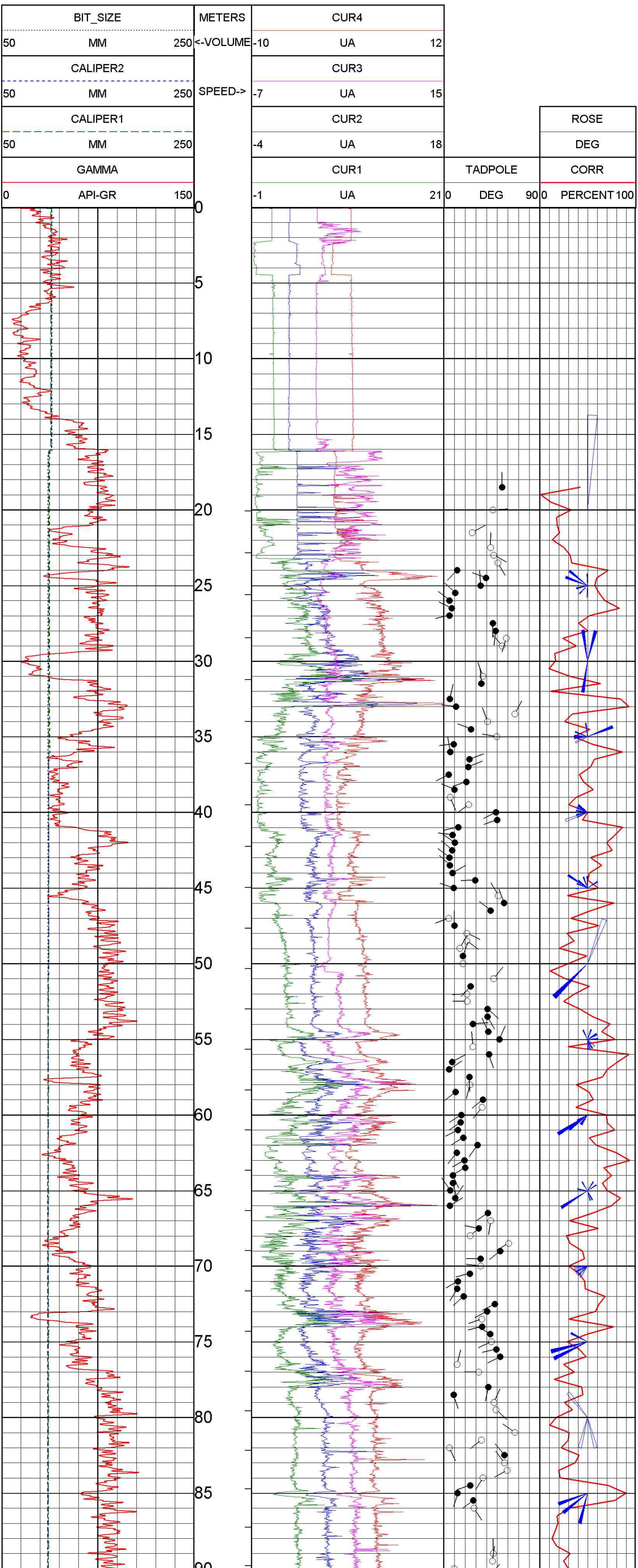
OTHER SERVICES:
SONIC
NEU
DEN

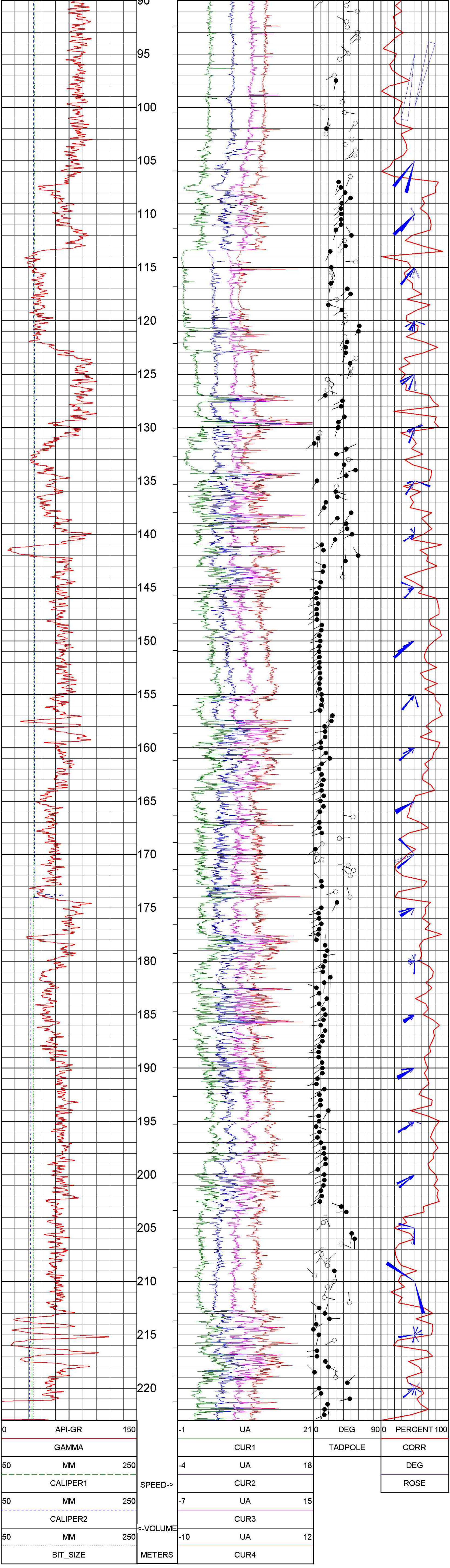
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

FORMATION DIPMETER 1:200 DHGH-14-16 06/21/14

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 1:200 DHGH-14-16 06/21/14

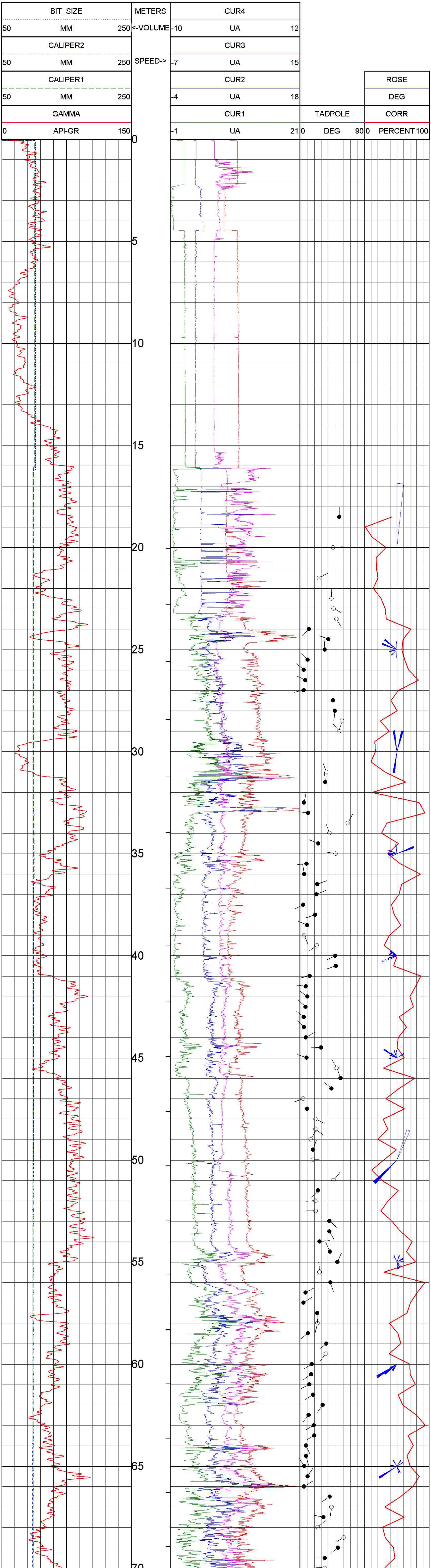
LOG PARAMETERS

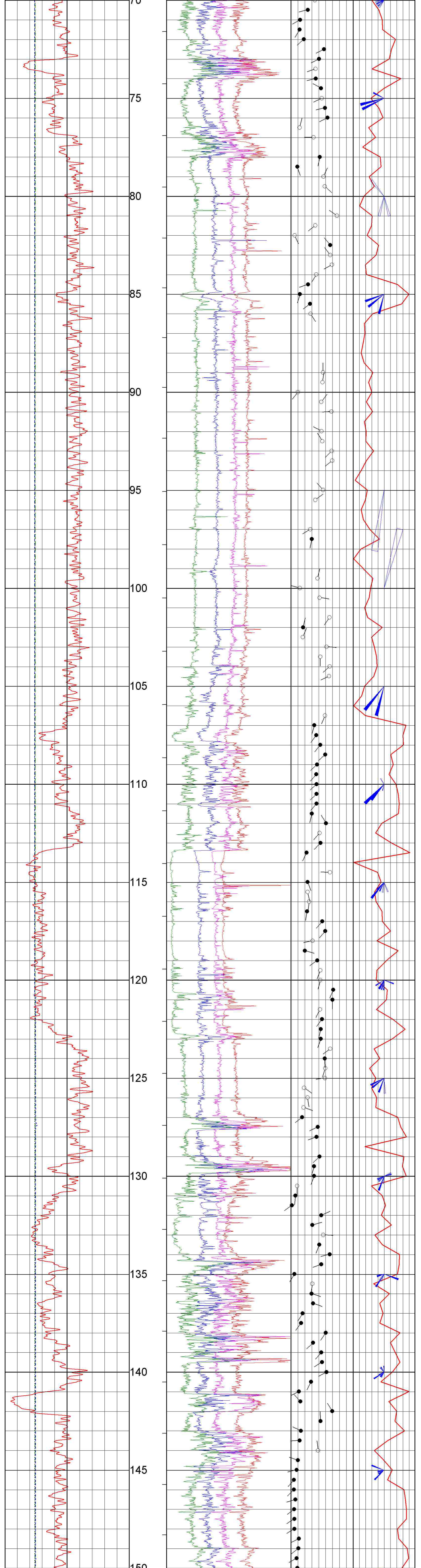
MATRIX DENSITY : 2.65
NEUTRON MATRIX : SANDSTONE
MATRIX DELTA T : 177
MAGNETIC DECL : 19.5
ELECT. CUTOFF : 75000
BIT SIZE : 98.4
PRESENTATION NAME/DATE = Atrum_9411_(200 scale).0 06/12/2014
VERSION = 3.64LG

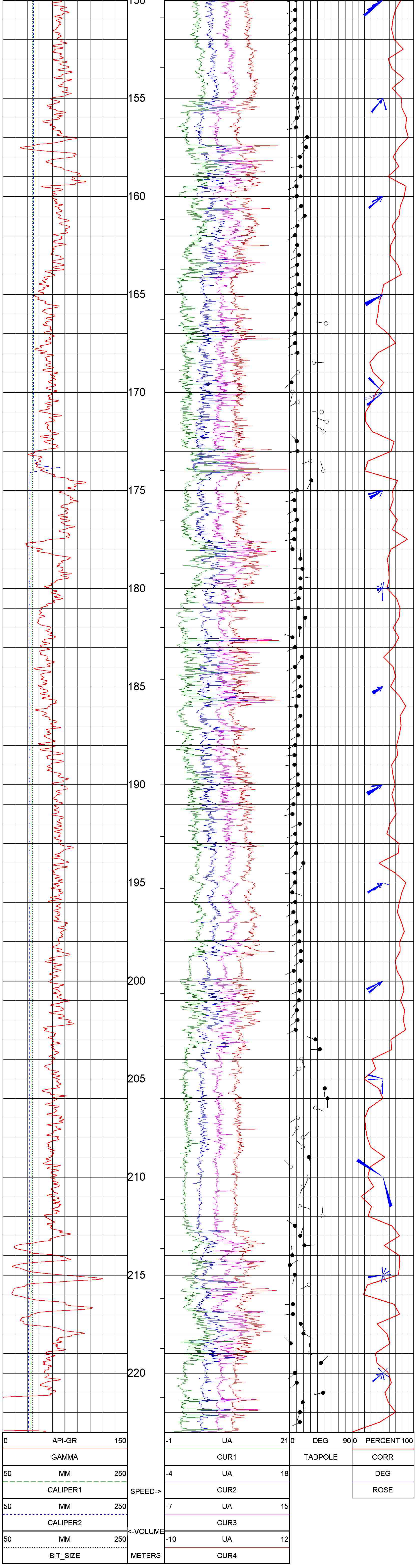
FORMATION DIPMETER 1:100 DHGH-14-16 06/21/14

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







FORMATION DIPMETER 1:100 DHGH-14-16 06/21/14

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

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TOOL CALIBRATION  DHGH-14-16 06/21/14 13:47
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]
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