Century
WIRELINE SERVICES

DIPMETER ANALYSIS

DHGH-14-07

COMPANY	ATRUM COAL		
WELL	DHGH-14-07		
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	06/07/14	RIG NUMBER	2
DEPTH DRILLER	289.25	LOGGER TD	285.14
BIT SIZE	97.0	ARRIVAL TIME	19:00
LOG TOP	5.04	DEPARTURE TIME	11:30
LOG BOTTOM	281.00	CIRC STOPPED	N/A
CASING LOGGER	6.70		
CASING DRILLER	6.70		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	1.00		
WITNESSED BY	N/A		
RECORDED BY	T. NEAL		
REMARKS 1	VERTICAL		
REMARKS 2	:		

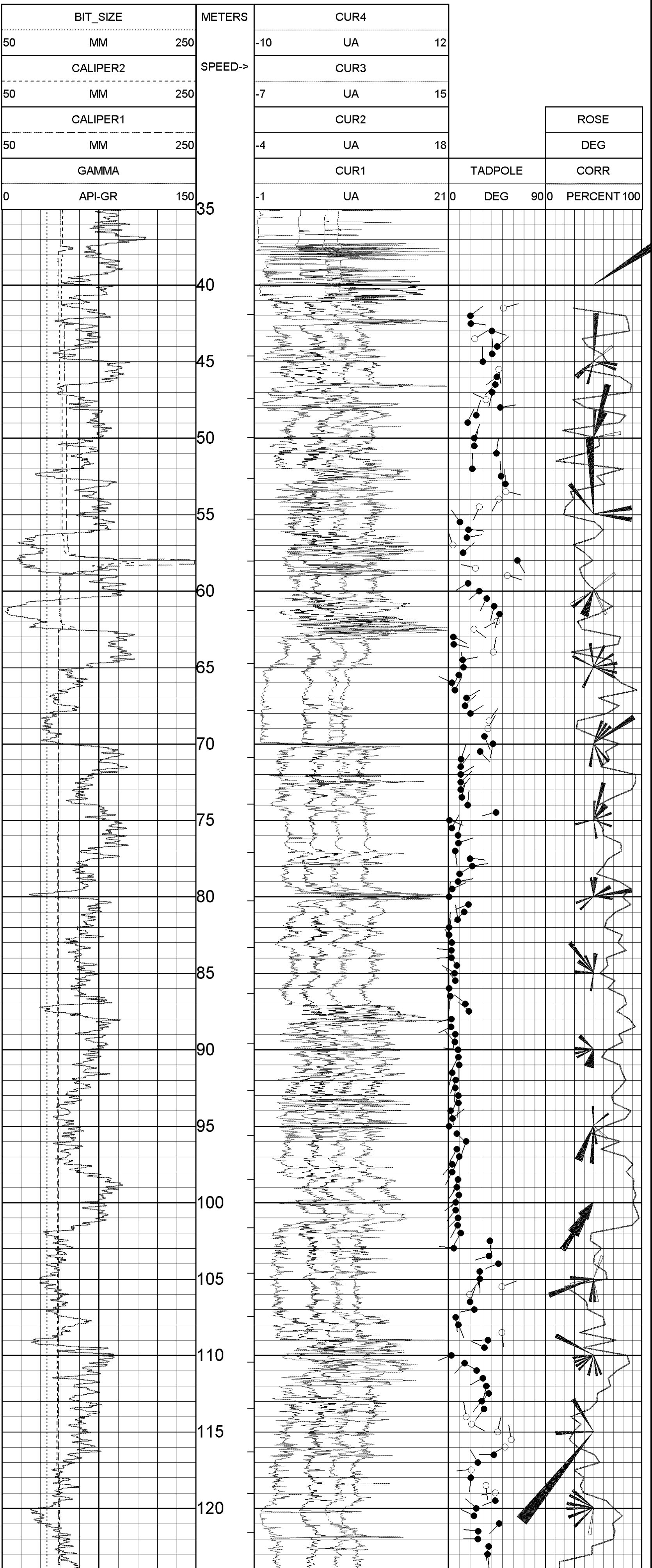
OTHER SERVICES:
DENSITY
NEUTRON
SONIC

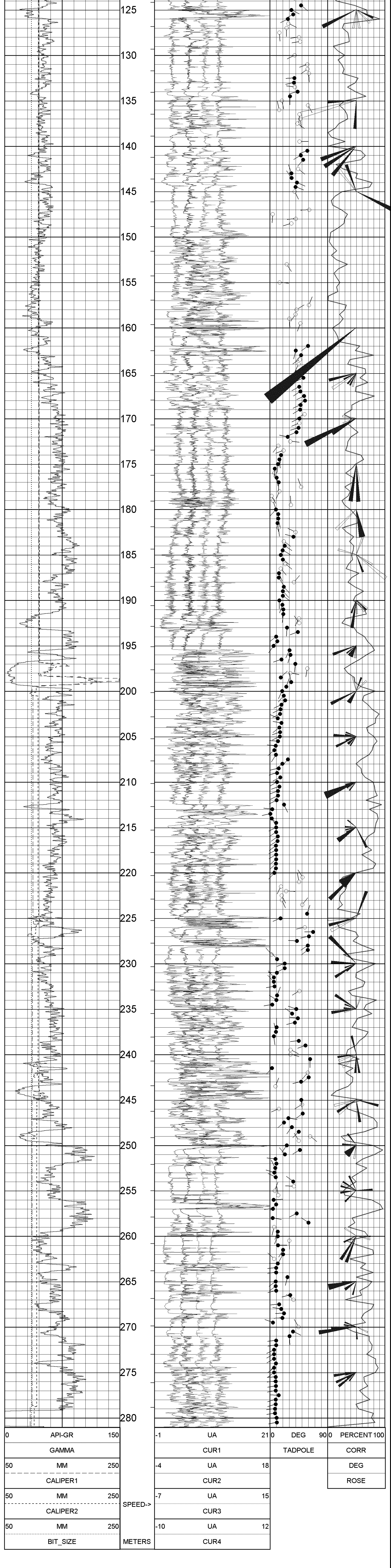
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

FORMATION DIPMETER 1:200 DHGH-14-07 06/07/14

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 19.5	ELECT. CUTOFF : 75000	BIT SIZE : 97.0
PRESENTATION NAME/DATE = Atrum_9411-2.0 06/05/2014		VERSION = 3.64KX





FORMATION DIPMETER 1:200 DHGH-14-07 06/07/14

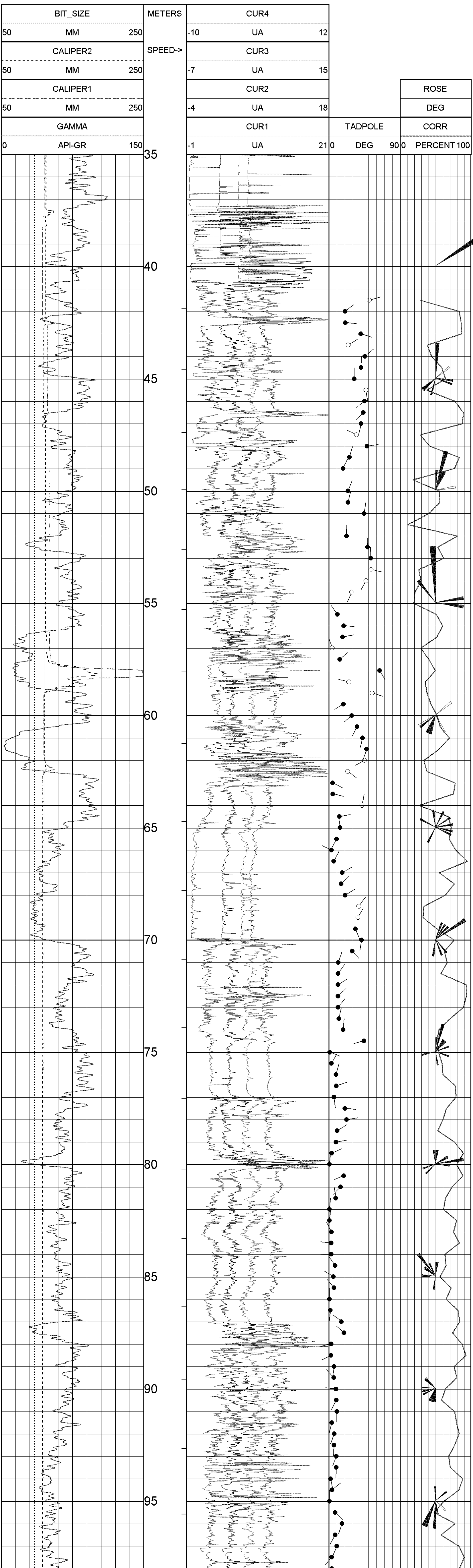
LOG PARAMETERS

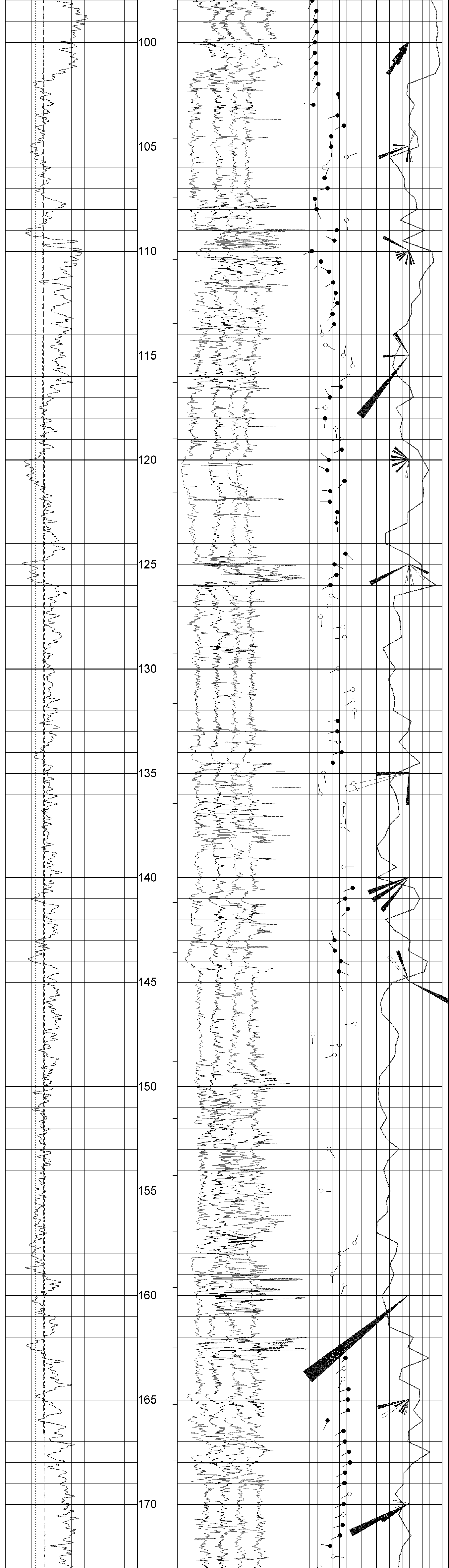
MATRIX DENSITY : 2.65
NEUTRON MATRIX : SANDSTONE
MATRIX DELTA T : 177
MAGNETIC DECL : 19.5
ELECT. CUTOFF : 75000
BIT SIZE : 97.0
PRESENTATION NAME/DATE = Atrum_9411-2.0 06/05/2014
VERSION = 3.64KX

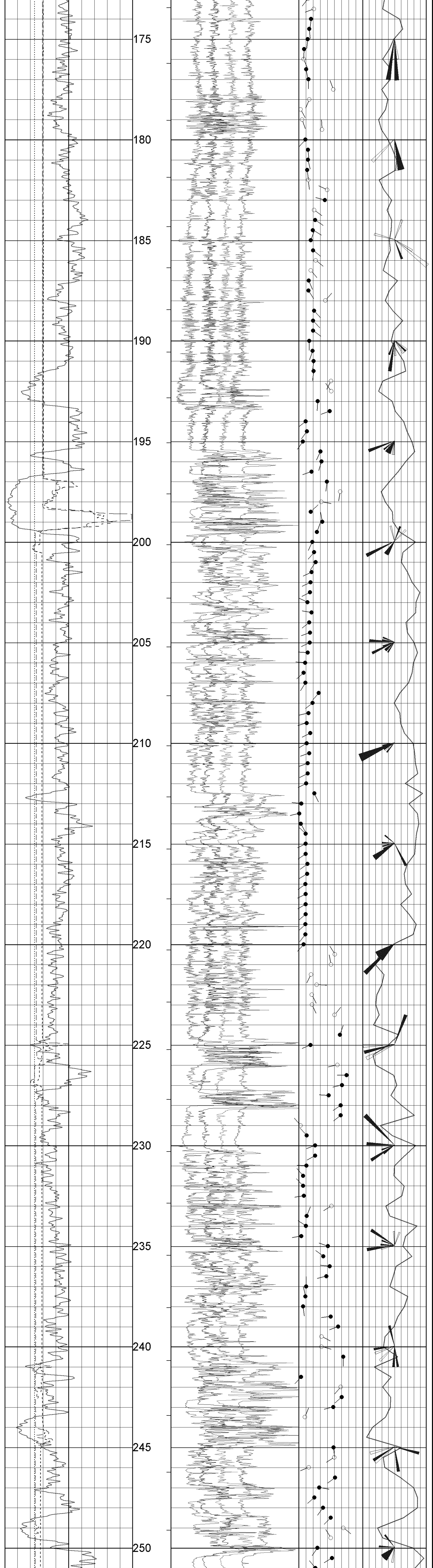
FORMATION DIPMETER 1:100 DHGH-14-07 06/07/14

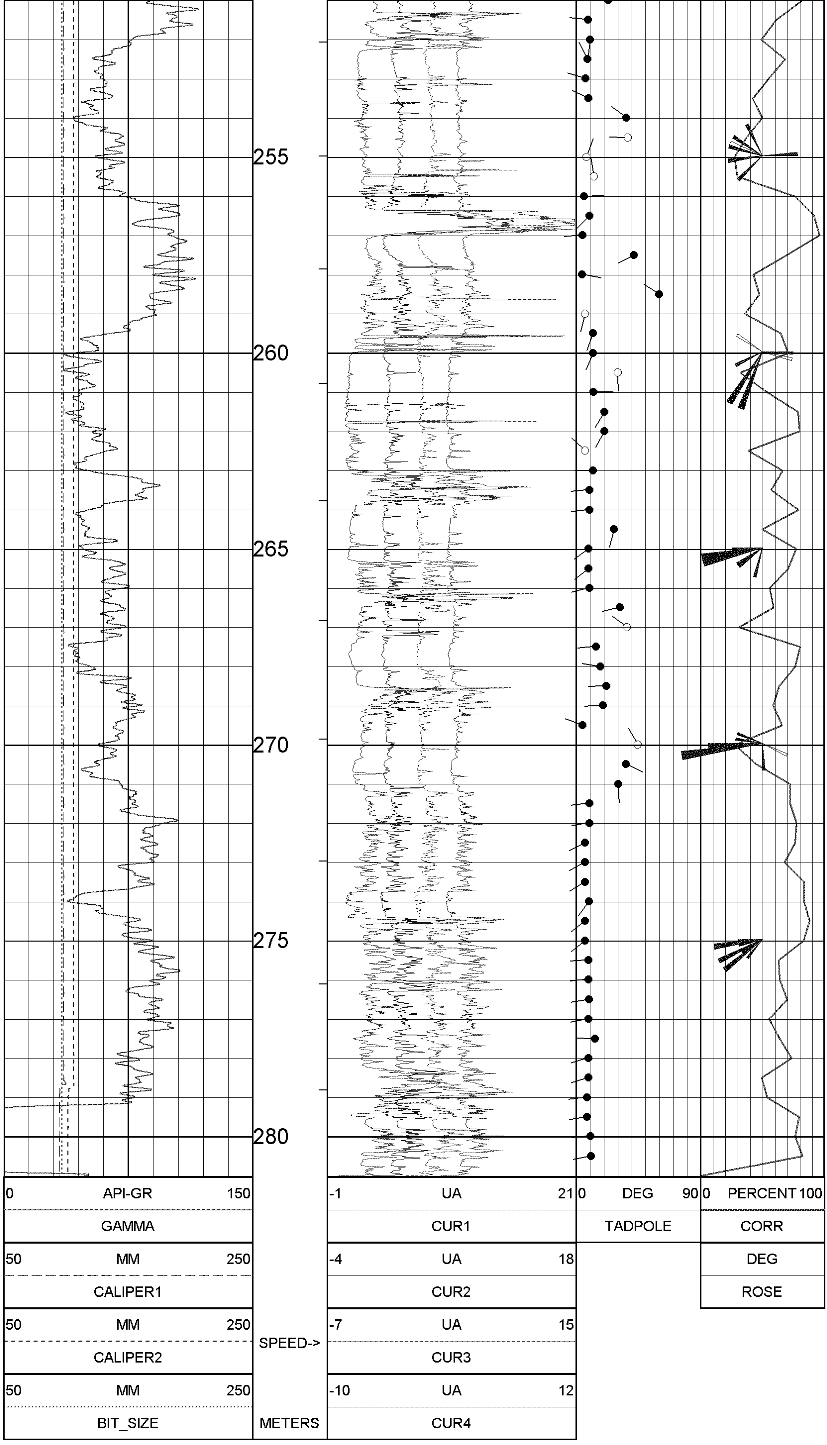
LOG PARAMETERS

MATRIX DENSITY : 2.65
NEUTRON MATRIX : SANDSTONE
MATRIX DELTA T : 177
MAGNETIC DECL : 19.5
ELECT. CUTOFF : 75000
BIT SIZE : 97.0
PRESENTATION NAME/DATE = Atrum_9411_1.0 06/05/2014
VERSION = 3.64KX









FORMATION DIPMETER 1:100 DHGH-14-07 06/07/14

LOG PARAMETERS

MATRIX DENSITY : 2.65
NEUTRON MATRIX : SANDSTONE
MATRIX DELTA T : 177
MAGNETIC DECL : 19.5
ELECT. CUTOFF : 75000
BIT SIZE : 97.0
PRESENTATION NAME/DATE = Atrum_9411_1.0 06/05/2014
VERSION = 3.64KX

```
TOOL CALIBRATION  DHGH-14-07 06/07/14 04:54
TOOL  9411A     TM VERSION 6
SERIAL NUMBER    4504
     DATE       TIME                 SENSOR      STANDARD                   RESPONSE
1    Sep04,13   17:17:51             GAMMA      0.100    [API-GR ]          0.000    [CPS]
     Sep04,13   17:17:51             GAMMA    545.000    [API-GR ]        519.000    [CPS]
2    May04,10   13:04:32             VOLTAGI   50.000    [MV     ]        400.000    [CPS]
     May04,10   13:04:32             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]
```