OSG Logging Operations  
AIG10a  
16-18 August 2002  
OSG: Bohn, Kück, Töpfer

Well:  
AIG10 (Aigion 10)

Location:  
Aigion, Peleponnes, Greece

Geographic Coordinates:  
Lat: 38.25567°  Long: 22.07067°

Depth reference:  
top BOP  
(2.4 m above ground which is 2 m above sea level)

Max. depth (driller):  
708.80 m

Casing:  
ID = 252.7/251.3 mm (10 3/4")  0 - 211.30 m

OH bit size:  
244.5 mm (9 5/8")

Density (@surface):  
1.12 g/cm³ (bentonite with clay from formation)

Time circulation stopped: 17-August-2002; 00:00

Travel

Departure: 12/13-AUG-2002, Potsdam/Windischeschenbach

Ferryboat: 14-AUG-02, 19:30, Brindisi, Hellenic Mediterranean Lines

Arrival: 15-AUG-2002, 16:30, AIG10 drill site

Logging operations: 16 to 18-AUG-02

16-AUG-2002

Preparations: (9 h)

- set up logging truck, check of equipment, Logging PC has a defect monitor,
  Halliburton bridle cable head defect,
- rebuilding to Schlumberger LEHQ head = OK,
- check of digital sondes 'MP' & 'SGR' = OK,
- repair of Halliburton head and check = OK

17-AUG-2002

Borehole Logging: (13.7 h)

MP  (Mud Parameter: Temperature, Pressure, Resistivity, total GR)

Start: 17-AUG-02, 09:24  End: 17-AUG-02, 11:50  ~ 2.4 h

- log down 0 - 707.84 m with 8 m/min
- max. recorded temp: 30.23°C, temp variations over entire well < 4°C
- pressure sensor port clogged by extreme thick mud, no usable measurement
- mud resistivity is very stable at 2 Ohmm, accuracy could be reduced due to sticky mud
**SGR** *(Spectral Gamma Ray)*

Start: 17-AUG-02, 12:06  
End: 17-AUG-02, 14:45  
~ 2.6 h  
- log up 705.4 - 150 m  
- very good results (high dynamic); 5.4 m/min

**Change of cable head: dismount LEH-Q, mount Halliburton w/ bridle**

Start: 17-AUG-02, 14:50  
End: 17-AUG-02, 15:35  
~ 0.75 h

**GR-BCS-DIL** *(total GR, Sonic, Induction Resistivity)*

Start: 17-AUG-02, 16:00  
End: 17-AUG-02, 19:15  
~ 3.25 h  
- log up 703.4 - 184 m with 11 m/min  
- upper part of OH shows mainly formation resistivity close to mud-resistivity  
- lower part (> 390 m) shows mainly formation resist. close to micro-resistivity  
- repeat run, 251 - 191 m

**GR-MSFL** *(total GR, Micro Resistivity, one-arm caliper)*

Start: 17-AUG-02, 19:48  
End: 17-AUG-02, 21:50  
~ 2 h  
- log up 704.6 - 230.8 m with 8 - 14 m/min  
- average micro-resistivity > 10 Ohmm, always higher than 5 Ohmm  
- micro-resistivity is usually clearly higher than mud-resistivity  
- repeat run, 704.6 - 649.5 m

**Resumé:**

- all tools worked error free, except LL3 resistivity inside the DIL sonde  
- smooth and fast operation  
- very good cooperation with drilling crew  
- total time of OSG operations at logging day: 13.7 h  
- pure OSG logging time: 11 h

**18-AUG-2002**

Dismounting: (5 h)  
- disassembly of equipment and logging truck, packing  
- back-up of data  
- short on-site logging report  
- discussion of first results with the responsible on-site geologist
Travel

Departure: 19-AUG-02, 13:00, Aigion drill site
Ferryboat: 19-AUG-02, 21:00, Patras, Hellenic Mediterranean Lines
scheduled departure was 19:30
Arrival: 22/23-AUG-2002, Windischeschenbach/Potsdam

Time overview:

Total time: 10/12 days (starting from KTB/starting from GFZ Potsdam)
Traveltime: 7/9 days (from KTB/ from Potsdam)
On-site operations: 3 days (27.7 h)
Pure logging time: 13.7 h