

**Daily Operational and Science Report Revision 1**  
**UT-GOM2-2 Coring Expedition**  
**Terrebonne Basin, Gulf of Mexico Outer Continental Slope**

**1. DATE:** 04-August-2023, 0000-2400hr

**2. LOCATION:**

2400 hr, 04-August-2023

Hole: *Helix D/V Q4000* was located over the location of Hole UT-GOM2-2-H003.

Depth Below Rig Floor (RKB): 6506

Per Datum: 52 ft

Water depth: 6454 ft

Lat 26°39'46.50488"N, Long 091°40'33.82464"W

**3. DESCRIPTION OF OPERATIONS:**

0000-2400 At Hole UT-GOM2-2-H003.

0000-0600 Executed a test of the PDT/T2P (Probe Deployment Tool). This test was not successful. The tool detached at the rig floor while hanging in the drill pipe. It fell to the bottom of the hole and landed in the BHA (bottom hole assembly). The PDT/T2P was successfully fished from the bottom of the hole without incident. The cause of the detachment of the PDT/T2P is being examined at this time.

0900-1200 BSSE (Bureau of Safety and Environmental Enforcement) made an unannounced inspection of the Q4000 and associate UT program efforts. BSEE did not identify any significant operator concerns

1130-1200 Lowered drill string down to 6,506' to tag mud line then picked up to 6,500.'

1223 GAPC fired with 2,300 psi and 7.6 bbls pumped.

1250 Core UT-GOM2-2-H003-01H arrived on deck: 0.0 ft to 27.0 ft: Recovered 24.67 ft

1907 GAPC fired with 2,100 psi and 4.9 bbls pumped: Core UT-GOM2-2-H003-02H, 27.0 ft to 55 ft: Recovered 32.79 ft

**4. OPERATIONAL PLAN (Next 24 Hours):**

Continue with APC Core UT-GOM2-2-H003-03H and PCTB Core UT-GOM2-2-H003-04PC.

**5. DOWNHOLE LOGGING OPERATIONS:**

**Hole:** NA

**Wireline Totals (directional):** NA

**6. CORE OPERATIONS AND DATA:**

**Hole:** UT-GOM2-2-H003

**G-APC Coring Totals:** Core UT-GOM2-2-H003-01H: 24.67 ft recovered core (93% recovery)

Core UT-GOM2-2-H003-02H: 32.24 ft recovered core (118% recovery)

**G-XCB Coring Totals:** NA

**G-PCTB-CS Coring Totals:** NA

**G-PCTB-FB Coring Totals:** NA

**7. DOWNHOLE MEASUREMENTS**

**Hole:** NA

**Pressure and Temperature Tool Deployment (T2P):** NA

**Temperature Tool Deployment (APCT-3):** NA

## 8. SCIENCE ACTIVITIES

The pipe tally with the bit on the seabed was 6506 ft corresponding to 6454 ft water depth and 52 ft rig floor height above water. The Science Party and Geotek fully sectioned Core UT-GOM2-2-H003-01H and Core UT-GOM2-2-H003-02H after infrared core scanning. Whole round sections for pore water and microbiology were collected and are being processed in the core processing and pore water labs. Headspace gas samples were also collected. The first three piston cores are being sampled at a high resolution (one set per section) for the standard sample set (pore water, microbiology, physical properties, headspace gas) in order to identify the depth of the sulfate-methane transition zone (SMTZ) and characterize biogeochemical processes in the shallow interval. Vane shear and pocket penetrometer were measured on the end of each section.



*Core H003-02H being sectioned in the Core Receiving Lab.*



*View from the Doghouse*