

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

1. DATE: 02-August-2023, 0000-2400hr

2. LOCATION:

2400 hr, 02-August-2023

Hole: *Helix D/V Q4000* located over the general location of Hole WR313 H001 that was previously drilled in the Walker Ridge Block 313 H during the Gulf of Mexico Gas Hydrates Joint Industry Project (JIP) Expedition II in 2009.

Water depth: NA

Per Datum: NA

Lat 26° 39.765280' N, Long 091° 40.56586' W

3. DESCRIPTION OF OPERATIONS:

0600-0700 Offload supplies from *Harvey Ram Supply Vessel*

0700-2400 The cold shuck was installed in the rig floor. The PCTB-CS bottom hole assembly (BHA) was made up (MU) and two PCTB space out tests were performed. The advanced piston corer (APC) and extended core barrel (XCB) corer were spaced out. The PCTB BHA and pipe was run in reaching ~ 2000 fbsf by 2400.

0800-2400 Both of the *Helix D/V Q4000* work class ROVs (XLS09 and XLS10) continued to work on establishing the location of the H001 well and placing marker buoys.

1200-2400 Helix troubleshooting new navigation system. GeoServices and SLB troubleshooting wireline communication issues.

2400 The *Harvey Hermes Supply Vessel* arrived at the *Helix D/V Q4000*.

4. OPERATIONAL PLAN (Next 24 Hours):

Use the ROV *Helix D/V Q4000* to establish the location of the proposed Walker Ridge Block 313 H well locations and resolve navigation issues. Complete the regulatory required ROV supported acoustic survey of the Walker Ridge Block 313 H gas hydrate research test site. Continue to RIH in preparation to conduct a full function test of the PCTB-CS.

5. DOWNHOLE LOGGING OPERATIONS:

Hole: NA

Wireline Totals (directional): NA

6. CORE OPERATIONS AND DATA:

Hole: NA

G-APC Coring Totals: NA

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 Science Party continued to refine and finalize both the conventional and pressure core handling and processing plans leading the coring/drilling operations in the UT-GOM2-2-H003 hole. The Science Party ran through “dry runs” of conventional core sampling and archiving of conventional core, including sectioning, sampling whole rounds, and sampling gases. This activity led to improvements to the planned sampling plan. The Science Party continued to prepare the projected designated (1) Conventional Core Receiving Lab – G17, (2) Conventional Core Processing Lab – G19, and (3) Conventional Core Pore Water Labs – G20 in preparation for the planned conventional coring operations associated with the UT-GOM2-2-H003 hole. Work on preparing the T2P continued.