Chikyu DAILY MORNING REPORT Mission No.: CK24-01 Report No.: 
 Lat.
 37°56.3417'N
 Long.
 143°54.8167'E
 Seabed Depth :

 Progress :
 49.0
 m
 Drilling/Coring/Underreaming Hrs. :
 24.00
 14/Nov/2024 6,905.0 mBRT Report Date : JTCT-01A Hole Name C0019M RT-MSL: 28.5 m Progress : \_\_\_\_\_\_\_ m \_\_\_\_ LAST CASING : \_\_\_\_\_ Cut HPCS core #2 - #7 mbsf( mBRT) Present Operation @ 06:00 on 14-Nov Recover #9 core barrel mBRT: meter below rotary table 0:30 W&R 6.911.5 Wash down from 6.905.0 to 6.911.5mBRT (0.0 - 6.5mbsf, 6.5m). WOB:0-10kN, Pump:150gpm x 1.2MPa, Ave.ROP:28.0m/hr 0:30 0:00 Cut #2 HPCS core (C0019M-2H) from 6,911.5 to 6,921.0mBRT (6.5 - 16.0mbsf) 0:30 2:45 2:15 CORE 6,921.0 Run #2 HPCS inner barrel (C0019M-2H).
Pump 200gpm and shoot HPCS on bottom, full penetration with 18.5MPa.
Pick up by coreline with 15kN OP and assist by DW with 225kN OP. Start pick up cor
Recover inner barrel to surface (9.12m/9.5m 96.0% recovered).

Macquibility close PGP door. Meanwhile, close RGR door. Wash down and drill from 6,911.5 to 6,921.0mBRT (6.5 - 16.0mbsf, 9.5m).
6,911.5mBRT - 6,919.5mBRT (6.5 - 14.5mbsf) WOB: 0-10kN, Pump: 150gpm x 1.4MPa, Ave.ROP:37m/hr
6,919.5mBRT - 6,921.0mBRT (14.5 - 16.0mbsf) WOB: 0-20kN, Pump: 150gpm x 1.4MPa, HPS: 5rpm x 0.1-2.0kNm, Ave.ROP:11m/h 3:15 0:30 DRL 6,921.0 2:45 Cut #3 HPCS core (C0019M-3H) from 6,921.0 to 6,928.5mBRT (16.0 - 23.5mbsf)
Run #3 HPCS/APCT-3 inner barrel (C0019M-3H).
Pump 200gpm and shoot HPCS at 0.5m off bottom, but partial penetration with 19.5MPa. Bleed off remainig pressure. Wait 10mins for APCT-3 mea
Pick up by coreline with 15kN OP and assist by DW with max 375kN OP, observe OP by DW from 6,919m.
Start picking up coreline w/o OP when bit depth is 6,912.5mBRT (8.5m off bottom).
Recover inner barrel to surface (8.9m/7.5m 118.5% recovered). 6,928.5 3:15 5:45 2:30 CORE 7:15 1:30 DRL 6,928.5 Drill down from 6,921.0 to 6,928.5mBRT (16.0 - 23.5mbsf, 7.5m). 5:45 | 16.0 - 23.3 | 16.0 | 16.2 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 16.0 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | 23.3 | Cut #4 HPCS core (C0019M-4H) from 6,928.5 to 6,938.0mBRT (23.5 - 33.0mbsf)

Run #4 HPCS inner barrel (C0019M-4H).

Pump 200gpm and shoot HPCS on bottom, full penetration with 18.5MPa.

Pick up by coreline with 15kN OP and assist by DW with 370kN OP. Start pick up coreline w/o OP when bit depth is 6,920.5mBRT (8.0m off bottom Recover inner barrel to surface (9.4m/9.5m 98.9% recovered). 7:15 9:30 2:15 CORE 6,938.0 Drill down from 6,928.5 to 6,938.0mBRT (23.5 - 33.0mbsf, 9.5m)

MP 250gpm x 2.1-2.5MPa, HPS 30rpm x 0.1-4.0kNm, WOB 0-20kN, Ave. ROP 27m/hr

Lay out single and make stand connection. Sweep out 5m3 of SWG w/500gpm x 7.0MPa 9:30 11:30 2:00 DRL 6,938.0 CORE 6,947.5 Cut #5 HPCS core (C0019M-5H) from 6,938.0 to 6,947.5mBRT (33.0 - 42.5mbsf) 11:30 13:45 2:15 Run #5 HPCS/APCT-3 inner barrel (C0019M-5H).
Pump 200gpm and shoot HPCS at 0.5m off bottom, full penetration with 16.9MPa. Wait 10mins for APCT-3 measurement.
Pick up by coreline with 15kN OP and assist by DW with 400kN OP. Start pick up coreline w/o OP when bit depth is 6,929.5mBRT (8.5m off b. Recover inner barrel to surface (10.08m/9.5m 106.1% recovered). Drill down from 6,938.0 to 6,947.5mBRT (33.0 - 42.5mbsf, 9.5m). 13:45 15:00 1:15 DRL 6,947.5 MP 200gpm x 1.6-2.2MPa, HPS 20rpm x 0.1-3.8kNm, WOB 0-40kN, Ave. ROP 20m/h Cut #6 HPCS core (C0019M-6H) from 6,947.5 to 6,956.5mBRT (42.5 - 51.5mbsf)
Run #6 HPCS inner barrel (C0019M-6H).
Pump 200gpm and shoot HPCS on bottom, partial penetration with 19.1MPa. Bleed off pressure.
Pick up by coreline with 15kN OP and assist by DW with 371kN OP. Start pick up coreline w/o OP when bit depth is 6,940.0mBRT (7.5m off bottom).
Recover inner barrel to surface, but stuck piston rod against lower inner barrel. CORE 15:00 17:45 2:45 6,956.5 6,956.5 Drill down from 6,947.5 to 6,956.5mBRT (42.5 - 51.5mbsf, 9.0m) 17:45 18:15 0:30 DRL MP 200gpm x 1.6-2.2MPa, HPS 20rpm x 0.1-4.0kNm, WOB 0-40kN, Ave ROP 28m/hr Try to pull out piston rod from inner barrel, but unable to pull out same Lay out whole inner barrel assembly at drill floor once stop string rotation after drilling down to 6,956.5mBR t #7 HPCS core (C0019M-7H) from 6,956.5 to 6,964.0mBRT (51.5 - 59.0mbsf)
Run #7 HPCS/APCT-3 inner barrel (C0019M-7H),
Pump 200gpm and shoot HPCS at 0.5m off bottom, partial penetration with 19.4MPa. Bleed off pressure an
Pick up by coreline with 15kN OP and assist by DW with 370kN OP, but fail to recover inner barrel. 18:15 19:30 1:15 CORE 6,964.0 Meanwhile,
Break out upper section of lower inner barrel and retrieve core liner (C0019M-6H),
Suspect the cause of stuck is the top of core liner deform inward due to the high compression,
Once retrieve core liner, core liner is parted at 6.3m from bottom (6.84m/9.0m 76.0% recovered). 20:15 Overdrill from 6,956.5 to 6,960.5mBRT (51.5 - 55.5mbsf, 4.0m) 19:30 0:45 DRL 6,964.0 erdrill from 6,956.5 to 6,960.5mBRT (51.5 - 55.5mbsf, 4.0m)
Lower bit to bottom w/o pumping and rotation. Start pumping, rotation and CMC once reach to 6,956.5mBRT.
6,956.5 - 6,959.5mBRT (51.5 - 54.5mbsf), MP 50gpm x 1.0-1.1MPa, HPS 10rpm x 0.1-5.0kNm, WOB 0-40kN, Ave ROP 12m/hr
6,959.0 - 6,960.5mBRT (54.0 - 55.5mbsf), MP 50gpm x 1.0-1.1MPa, HPS 15rpm x 0.1-5.0kNm, WOB 0-60kN, Ave. ROP 6m/hr
After reaching 6,960.5mBRT, stop pumping, rotation and lock CMC.
Pick up inner barrel with 260kN of DW assist and observe break through, but coreline keep 15kN OP when pick up string to 6,936.5mBRT (20.0m off bottom).
Increase line tension limit (130kN) and pick up coreline, but fail to pick up coreline: Suspect sticky formation exists between inner barrel and outer core barrel.
Start pumping with stepping up 25gpm, 50gpm and 100gpm while monitoring coreline tension, coreline becomes free. Recover HPCS/APCT-3 inner barrel (C0019M-7H). (9.66m/7.5m 128.8% recovered) 22:15 2:00 CORE 6,964.0 20:15 Drill down from 6,960.5 to 6,964.0mBRT (55.5 - 59.0mbsf, 3.5m).

MP 250gpm x 2.1-2.6MPa, HPS 30rpm x 0.1-4.5kNm, WOB 0-40kN, Ave ROP 18m/hr
Sweep out 3m3 of SWG with 550gpm x 8.5MPa. 22:15 24:00 1:45 DRL 6,964.0 Lay out single and MU stand connection. (04:50-06:50)Advisory status due to the wind speed over 18m/s. ut #8 HPCS core (C0019M-8H) from 6,964.0 to 6,971.5mBRT (59.0 - 66.5mbsf) 0:00 1:15 1:15 CORE 6,971.5 Run #8 HPCS inner barrel (C0019M-8H). Pump 200gpm and shoot HPCS on botton Pump 200gpm and shoot HPCS on bottom, partial penetration with 18.9MPa. Bleed off pressure. Pick up by coreline with 15kN OP and assist by DW with 400kN OP, but fail to recover inner barrel 2:15 CORE Overdrill from 6,964.0 to 6,971.5mBRT (59.0 - 66.5mbsf, 7.5m, 3times) 1:15 1:00 3,971.5 erdrill from 6,964.0 to 6,971.5mBRT (59.0 - 66.5mbsf, 7.5m, 3times)
Lower bit to bottom w/o pumping and rotation. Start pumping, rotation and CMC once reach to bottom.

After finish each overdrill section, stop pumping, rotation and lock CMC.

[1st overdrill] 6,964.0 - 6,967.5mBRT (59.0 - 62.5mbsf), MP 50gpm x 1.1-5.1MPa, HPS 25rpm x 0.1-4.0kNm, WOB 0-40kN, Ave. ROP 10m/hr
 Attempt to pick up inner barrel with DW assist, but fail to pick up same with 400kN DW assist.

[2nd overdrill] 6,967.5 - 6,969.0mBRT (62.5 - 64.0mbsf), MP 50gpm x 1.1-3.0MPa, HPS 30rpm x 0.1-5.0kNm, WOB 0-40kN, Ave. ROP 11m/hr
 Attempt to pick up inner barrel with DW assist, but fail to pick up same with 400kN DW assist.

[3rd overdrill] 6,969.0 - 6,971.0mBRT (64.0 - 66.0mbsf), MP 55gpm x 1.1-2.4MPa, HPS 30rpm x 0.1-5.0kNm, WOB 0-50kN, Ave. ROP 30m/hr
 Pick up inner barrel with 335kN of DW assist. Start to pick up coreline w/o OP at the same time as OP of DW is released. 6,971.5 Recover HPCS inner barrel (C0019M-8H). (9.55m/8.5m 112.4% recovered) 1:15 CORE 2:15 3:30 Drill down from 6,971.0 to 6,972.5mBRT (66.0 - 67.5mbsf, 1.5m) 3:30 3:45 0:15 DRL MP 200gpm x 1.6-2.3MPa, HPS 20rpm x 0.1-4.0kNm, WOB 0-40kN, Ave. ROP 15m/h Cut #9 HPCS core (C0019M-9H) from 6;972.5 to 6;977.0mBRT (67.5 - 74.0mbsf)

Run #9 HPCS/APCT-3 inner barrel (C0019M-9H);

Pump 200gpm and shoot HPCS at 0.5m off bottom, partial penetration with 19.1MPa. Bleed off pressure and wait 10min for APCT-3 measur
Pick up by coreline with 15kN OP and assist by DW with 400kN OP, but fail to recover inner barrel. 3:45 5:00 1:15 CORE 6,977.0 Overdrill from 6.972.5 - 6.977.0mBRT (67.5 - 72.0mbsf)
Lower bit to bottom w/o pumping and rotation. Start pumping, rotation and CMC once reach to bottom.

MP 50gpm x 1.0-1.8MPa, HPS 30rpm x 0.1-5.0kNm, WOB 0-50kN, Ave. ROP 13m/hr
Pick up inner barrel with 288kN of DW assist. Start to pick up coreline w/o OP when bit depth is 6.966.5mBRT (6.0m off bottom). 6,977.0 5:00 5:30 0:30 DRL 6:00 0:30 CORE 6,928.5 Recover HPCS/APCT-3 inner barrel (C0019M-9H), on going. 
 Hrs.
 WOB (kN)
 rpm

 Min.
 Max.
 Min.
 Max.
 MFR Type Code (krev) (m/hr) Inner Outer Dull Loc. 
 202369
 5 x 17
 6,905.0
 6,911.5

 202369
 5 x 17
 6,905.0
 6,960.5
 6 10.625 RR6a 10.625 0 60 0 30 10-5/8°Core bit x Long Bit sub x Seal bore Outer Core Barrel x Landing saver sub x Top sub x Head sub x 8-1/2°Coring Collar(2std) x XO#1 x 5°DP V-150 (23stds) x XO#2 x 5°DP S-140 (66stds) x 5-1/2°DP S-140 (22stds) x XO#3 x 5-1/2°DP UD-165 (30stds) x XO#4 x 5-1/2°DP UD-165 (30stds) x XO#5 x 6-5/8°DP Z-140 (13stds) x 6-5/8°DP UD-165 8 HPCS 680 HPS & Traveling block Mud Prop | Depth (mBRT) | MW | VIS | PV | YV | 6rpm | Gel St. (10", 10") | API | Cake | pH | Pf | Cl- Sand Oil Solid MBC Temp FIT 20/40 (mm) Jar Rotating Time @24:00 K+ Mud Type Time K LGS Motor Pumping time @24:00
Today
Tota Press. Ann. Vel. (MPa) (m/min) Flt. SPM No. Liner Size GPM Dep 28 6" 154 87 Caustic soda 5,025 14:01 14:10 275 JAMSTEC PR Lime 5,200 Materials Stock on Board @24:00 Akatsuki (Supply boat) Status Chikyu Ibuki (Guard boat) Status Chikyu Flowzan Used Received 68.8 43.4 PHG (m3) leave (m) Incident Last Incident No. LTI otable Water 273.0 3.0 0.0 Sub-contractor Kill mud (m3) 46 itch (deg) 0.3 rill Water 895.9 44.4 occ Roll (deg) 11/14/19 /essel Heading (deg) Riser Tension (kN) /.D. Load (ton) HUNS cards m3 4,070.5 43.2 Remarks 12515 GE Max Draught (m) 9.0 2000 Well Cost (1,000 Yen) based on the cost by Weather Information | Barometer | Wind | (hPa) | Speed (m/s) | Dir. (deg) | Gust (m/s) | 1024.5 | 5.1 | 5 | 7.1 | 
 Wave
 Ct

 Height (m)
 Dir. (deg)
 Period (s)
 Speed(knt)
 Air SW 13.0 24.8 24:00 Reported by : T.Yokoyama, Y.Oishi bc 22.0 Approved by : T.Saruhash