

Chikyu DAILY MORNING REPORT

Mission No. :CK24-01

Exp. No. :405

Report No. :68

Site NameJTCT-01A

Hole NameC0019L

Lat.37°56.3588'N

Long.143°54.8188'E

Seabed Depth :6,905.0 mBRT

RT-MSL :28.5 m

Report Date :13/Nov/2024

C0019M

37°56.3588'N

143°54.8188'E

6,905.0

Depth : @24:00(L hol)6,911.5 mBRT6.5 mbsf

Progress :6.5 m

Drilling/Coring/Underreaming Hrs. :5.00 hrs

@24:00(M ho)6,911.5 mBRT6.5 mbsf

Depth : @06:006,928.5 mBRT23.5 mbsf

Summary of Operation on12-Nov :Continue to Run HPCS assembly, Dive UWTV, Seabed survey, Cut HPCS core #1 (C0019L & C0019M).

Present Operation @ 06:00 on13-Nov :Run #4 HPCS inner barrel (C0019M-4H).

Time Breakdown (00:00 - 24:00 on12-Nov)

mBRT: meter below rotary table

mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	10:00	10:00	TRIP		Continue to run HPCS assembly to 6,893.0mBRT. Fill up every 15stds. Break circulation at 3,010.0mBRT: Circulate single string volume w/500gpm x 4.0MPa Meanwhile, Pre-dive check UWTV/ OK. While pre-dive check, observe malfunction of UWTV winch: fixed
10:00	11:00	1:00	C&C		Conduct break circulation at 6,893.0mBRT Circulate single string volume w/500gpm x 7.1MPa Check pressure: 150 / 200 / 300 / 400 / 500 / 600 / 650 gpm x 1.1 / 1.6 / 2.9 / 4.6 / 7.0 / 9.8 MPa. Meanwhile, Open RGR door by using tugger line and skid back Install drain hose to Mud bucket
11:00	14:30	3:30	UWTV		Dive UWTV to 6,800m. Lower UWTV to 100mMSL with applying white paint mark on 50m and 100m and install UWTV cable to Guide sheeve on moonpool cart. Power on UWTV and check function for camera and sonar at 100mMSL. Leave RGR door open and RGR position at AFT.
14:30	19:00	4:30	SURV		Seabed survey Lower bit with UWTV to 6,924.0mBRT. Try to find C0019D observatory wellhead, but the return signal of UWTV sonar is very weak and wellhead is not visible clearly. Move vessel following the weak intermittetnt sign and the wellhead is finally found. Confirm C0019D observatory hole coordinates by UWTV transponder position. Coordinates (Seabed): Lat. 37°56.3049'N, Long.143°54.7998'E [C0019N hole: SD-RCB] Move vessel to C0019N hole (359deg, 59.2m) from C0019D hole. Wait UWTV stop drifting after vessel stops. Tag and check seabed depth at 6,917.0mBRT. Confirm the location by Co-Chief scientists. Coordinates (Seabed): Lat. 37°56.3369'N, Long.143°54.7991'E [C0019L/M hole: HPCS] Move vessel to C0019L hole (70.7deg, 27.2m) from C0019N hole. Wait UWTV stop drifting after vessel stops. Coordinates (Seabed): Lat. 37°56.3417'N, Long.143°54.8167'E
19:00	21:30	2:30	CORE	6,911.5	Spud in C0019L hole and cut #1 HPCS core (C0019L-1H) from 6,905.0 to 6,911.5mBRT (0.0 - 6.5mbsf). Load sinker bar and run #1 HPCS inner barrel (C0019L-1H). Pump 200gpm and shoot HPCS at 3.0m off seabed, full penetration with 17.9MPa. Pick up by coreline with 15kN OP and assist by DW with 20kN OP. Start pick up coreline w/o OP when bit depth is 6,900.5mBRT (4.5m off bottom). Recover inner barrel to surface (5.28m/6.5m 81.2% recovered). Meanwhile, Monitor HPCS shooting by UWTV. Start to recover UWTV once confirm HPCS inner barrel is shot, ongoing.
21:30	24:00	2:30	CORE	6,911.5	Spud in C0019M hole and cut #1 HPCS core (C0019M-1H) from 6,905.0 to 6,911.5mBRT (0.0 - 6.5mbsf). Run #1 HPCS inner barrel (C0019M-1H). Pump 200gpm and shoot HPCS at 3.0m off bottom, full penetration with 18.1MPa. Pick up by coreline with 15kN OP and assist by DW with 20kN OP. Start pick up coreline w/o OP when bit depth is 6,901.0mBRT (4.0m off bottom). Recover inner barrel to surface (3.33m/6.5m 51.2% recovered). Meanwhile, Continue to recover UWTV and standby UWTV at 500m until HPCS inner barrel is shot. Resume to recover UWTV to surface after HPCS inner barrel is shot. Skid working cart to FWD and BOP cart to well center and set BOP cart at 0.4m offset. Complete maintainance of replaced 750ston hydraulic elevator.
From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	0:30	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 Meanwhile, Run #2 HPCS inner barrel (C0019M-2H).
0:30	2:45	2:15	CORE	6,921.0	Cut #2 HPCS core (C0019M-2H) from 6,911.5 to 6,921.0mBRT (6.5 - 16.0mbsf) 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 coreline w/o OP when bit depth is 6,904.0mBRT (7.5m off bottom). Recover inner barrel to surface (9.12m/9.5m 96.0% recovered). Meanwhile, close RGR door.
2:45	3:15	0:30	W&R	6,921.0	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:68m/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/hr Meanwhile, Run #3 HPCS/APCT-3 inner barrel (C0019M-3H).
3:15	5:45	2:30	CORE	6,928.5	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 measurement. 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).
5:45	6:00	0:15	CORE	6,928.5	Run #4 HPCS inner barrel (C0019M-4H), on going. (4:50-06:00)Advisory status due to the wind speed over 18m/s, on going.

Bit Record @24:00

Bit No.	Size (in)	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mBRT)		Meter-age	Hrs.	WOB (kN)		rpm	Total Rev. (krev)	ROP (m/hr)	Dull Condition										
							From	To			Min.	Max.				Min.	Max.	Inner	Outer	Dull	Loc.	B	G	O.D.	RP	
6	10.625	AAI	SC513	-	202369	5 x 17	6,905.0	6,911.5	6.5	-	-	-	-	-	-											
RR6a	10.625	AAI	SC513	-	202369	5 x 17	6,905.0	6,911.5	6.5	-	-	-	-	-	-											

BHA Record @24:00

8	HPCS	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 S-150 (25stds) 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																					
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Mud Properties @24:00

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	6rpm	Gel St. (10", 10')	API	Cake	pH	Pf	Cl-	Sand	Oil	Solid	MBC	Temp		K+	n	K	LGS	FIT 20/40 (mm)	
																		In	Out					0 min	5min

Mud Pumps : 14-P-220

5.00					gallon/stroke @97%	
No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	
1	6"	60	300		6"DC 5"DP	
2	6"			9.8	168	95
4	6"	60	300			

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	294.4	56.2	0.0
Potable Water	m3	276.0	3.0	0.0
Drill Water	m3	851.5	5.7	87.2
Fuel	m3	4,113.7	38.7	0.0
Lube, Oil	Ltrs	112,300	1,900.0	0.0
Helit Fuel	Ltrs	0.0	0.0	0.0

Weather Information

Time	Weather	Temp. (degC)		Barometer (hPa)	Wind			Wave			Current		Visibility (km)
		Air	SW		Speed (m/s)	Dir. (deg)	Gust (m/s)	Height (m)	Dir. (deg)	Period (s)	Speed(knt)	Dir. (deg)	
24:00	I	17.0	24.7	1010.7	14.0	296	15.4	1.5	90	4.7	0.6	121	22.0

Today's Schedule: Continue to cut HPCS core

Personnel @24:00

MarE3	6
MQJ Crew	100
MWJ	19
Scientist	28
JAMSTEC PR	1
Sub-contractor	
OCC	
WL	
Expro	
NuStar	3
GE	
Total	157

Mud Materials on Board @24:00hrs

Item	Received	Used	Stock
Barite			100,000
Tel-Gel			118,000
Caustic soda			5,025
Lime			5,200
Flowzan			25

Mud volume

PHG (m3)	280
Kill mud (m3)	46
SWG (m3)	135
Pre-Mix (m3)	60

Marine Information @24:00

Heave (m)	0.4
Pitch (deg)	0.2
Roll (deg)	0.1
Vessel Heading (deg)	305
Riser Tension (kN)	-
V.D. Load (ton)	12508
Max Draught (m)	9.0
Thruster (kW)	900

Heli Information @24:00

Flt. No.	Time		Passenger	
	Arrived	Departed	Are.	Dept.
1	09:40	09:51	9	9
2				

Boat Information @24:00

Akatsuki (Supply boat)	Status	Chikyu
Ibuki (Guard boat)	Status	Chikyu
HSQE and other information		
Incident	Last Incident	No. LTI
LTI	11/14/19	
HUNS cards	47	

Remarks

Well Cost (1,000 Yen) based on the cost by

Daily	
Cumulative	

Reported by : T.Yokoyama, Y.Oishi

Approved by : T.Saruhashi