

Chikyu DAILY MORNING REPORT

Mission No. :CK24-01

Exp. No. :405

Report No. :88

Site NameJTCT-01A

Hole NameC0019P

Lat (UWTV)37°56.3294'N

Long.(UWTV)143°54.7792'E

Seabed Depth :6,920.0 mBRT

RT-MSL :28.5 m

Report Date :3/Dec/2024

Depth : @24:007,860.0 mBRT940.0 mbsf

Depth : @06:007,866.4 mBRT946.4 mbsf

Progress :10.0 m

Drilling/Coring/Underreaming Hrs. :17.25 hrs

Summary of Operation on2-Dec:Continue to cut SD-RCB core. POOH.

Present Operation @ 06:00 on3-Dec:Continue to POOH.

Time Breakdown (00:00 - 24:00 on2-Dec)

mBRT: meter below rotary table

mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	2:00	2:00	CORE	7,860.0	Continue to Unload sinker bar Sweep out 15m3 SWG w/650gpm x 13.0MPa, 40rpm x 9.3kNm
2:00	3:15	1:15	CORE	7,860.0	Drop C0019P #3K(SDRCB) inner barrel. Pump to chase and confirm inner barrel landing by increasing pressure from 2.9 to 4.8MPa w/275gpm 34min after dropping. Pump 15m3 of SWG w/600gpm x 16.7MPa, 20rpm x 4.3kNm
3:15	8:15	5:00	CORE	7,864.0	Cut C0019P #3K(SDRCB) core from 7,860.0 - 7,864.0mBRT (940.0 - 944.0mbsf) 7,860.0 - 7,864.0mBRT (940.0 - 944.0mbsf), MP 450gpm x 10.0-10.1MPa, HPS 80rpm x 0.4-13.1kNm, WOB 40-100kN, Manual Drilling (not set Auto driller) Start parameter: 80spm x 40rpm. Not set Auto driller. Increase pump rate, rotation speed, and WOB, gradually. Actual ROP 9.2m/hr. Pressure increases 8.0MPa to 8.3MPa at 7,862.7mBRT. Decrease ROP from Ave. 13.8m/hr => Ave 5.0m/hr from 7,863.0mBRT. Stop coring due to low ROP. Load and run sinker bar. Recover inner barrel. Unload sinker bar. Observe Sweep out 15m3 of SWG w/600gpm x 11.0MPa, 20rpm x 5.3kNm
8:15	9:45	1:30	CORE	7,864.0	Lay down 2 single and run next DP stand. After making connection of DP stand, pump sea water and confirm no pressure spike /no indication of pack off. Reamdown to bottom and confirm no fill.
9:45	11:30	1:45	CORE	7,864.0	Drop C0019P #4K(SDRCB) inner barrel. Pump to chase and confirm inner barrel landing by increasing pressure from 2.9 to 4.8MPa w/275gpm 34min after dropping. Pump 15m3 of SWG w/600gpm x 16.7MPa, 20rpm x 4.3kNm
11:30	16:45	5:15	CORE	7,865.5	Cut C0019P #4K(SDRCB) core from 7,864.0 - 7,865.5mBRT (944.0 - 945.5mbsf) 7,864.0 - 7,865.5mBRT (944.0 - 945.5mbsf), MP 450gpm x 9.5-10.0MPa, HPS 100rpm x 0.9-12.0kNm, WOB 80-120kN, Auto ROP 20m/hr Observe no pressure increases. Actual ROP 2.0-2.4m/hr since 7,864.5mBRT. Stop coring due to low ROP. Load and run sinker bar. Recover inner barrel and unload sinker bar. Observe inner barrel shoe become 1mm shorter and its edge turned slightly outward. Suspect center of core bit worned and enlarged core interferes with shoe. Sweep out 15m3 of SWG w/600gpm x 12.4MPa, 30rpm x 0.5-2.5kNm
16:45	18:00	1:15	CORE	7,865.5	Drop C0019P #5K(SDRCB) inner barrel. Pump to chase and confirm inner barrel landing by increasing pressure from 3.2 to 4.8MPa w/275gpm 33min after dropping. Pump 10m3 of SWG w/650gpm x 18.8MPa, 15rpm x 0.5-3.0kNm
18:00	23:30	5:30	CORE	7,866.4	Cut C0019P #5K(SDRCB) core from 7,865.5 - 7,866.4mBRT (945.5 - 946.4mbsf) 7,865.5 - 7,866.4mBRT (945.5 - 946.4mbsf), MP 450gpm x 8.8-9.8MPa, HPS 110rpm x 0.4-14.0kNm, WOB 50-80kN, Auto ROP 10-15m/hr, Actual ROP 1.2m/hr Observe torque stop fluctuating and stay 8kNm, but increase gradually from 8.0 to 10.0kNm. Pressure increases gradually. Stop coring due to abnormal torque indication. Load and run sinker bar. Recover inner barrel. Observe no damage on core barrel shoe. After recovering inner barrel, observe high pump pressure (125gpm x 4.8MPa) and high torque(20rpm x 0.0 - 14.0kNm). Increase HPS from 20 to 30 rpm, then pump pressure and torque back to normal, suspect due to dropped chert pieces. Decision is made to finish SD-RCB coring because ROP would get worse gradually(2.0 - 2.4mhr on #4K, 1.2m/hr on #5K), and poor hole condition. Sweep out 15m3 of SWG w/600gpm x 12.4MPa, 30rpm x 0.5-2.5kNm
23:30	24:00	0:30	TRIP		POOH to 7,739mBRT. No observe any drag.

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	6:00	6:00	TRIP		Continue to POOH to 5,870.0mBRT No observe any drag. Remove drain hose at 7,467.5mBRT Vessel move to 100m South East from C0019P, after POOH to 6,823.0mBRT.

(4:30) Ibuki arrives on Chikyu.

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					
RR3b	8.5	NOV	CJPC713-A1	-	F312253	7 x 15	7,850.0	7,866.4	16.4	2.70	0	120	80	100	181.23	6.1													

BHA Record @24:00

11	SD-RCB	8-1/2"Core bit x Float valve sub x Near bit sub (w/o stabilizer) x Outer core barrel x Landing sub (w/o stabilizer) x Head sub x XO#1 x 6-3/4"Coring Collar(6std) x XO#2 x 5"DP V-150 (23stds) x XO#3 x 5"DP S-140 (65stds) x 5-1/2"DP S-140 (22stds) x XO#4 x 5-1/2"DP S-150 (27stds) x XO#5 x 5-1/2"DP UD-165 (30stds) x XO#6 x 6-5/8"DP Z-140 (8stds) x 6-5/8"DP UD-165																								

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 In	Temp Out	K+	n	K	LGS	FIT 20/40 (mm) 0 min	5 min

Mud Pumps : 14-P-220

5.00 gallon/stroke @97%

Personnel @24:00

MarE3	8
MQJ Crew	102
MWJ	20
Scientist	2
Outreach officer	2
Grapher	2
INPEX trainee	2
Sub-contractor	
OCC	
WL	
Expro	
NuStar	3
GE	
Total	141

Mud Materials on Board @24:00hrs

(unit: kg)

Item	Received	Used	Stock
Barite			100,000
Tel-Gel			118,000