

Chikyū DAILY MORNING REPORT

Mission No. : CK24-01

Exp. No. : 405

Report No. : 61

Site Name JTCT-02A Hole Name C0026B Lat. 37°55.5857'N Long. 144°04.1280'E Seabed Depth : 6,956.0 mBRT RT-MSL : 28.5 m Report Date : 6/Nov/2024

Depth : @24:00 7,229.5 mBRT 273.5 mbsf Progress : 26.5 m Drilling/Coring/Underreaming Hrs. : 24.00 hrs

Depth : @06:00 7,235.5 mBRT 279.5 mbsf LAST CASING x mbsf(mBRT)

Summary of Operation on 5-Nov : Cut SD-RCB core #21 - #27

Present Operation @ 06:00 on 6-Nov : Recover #29 inner barrel

Time Breakdown (00:00 - 24:00 on 5-Nov)

mBRT: meter below rotary table
mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	0:45	0:45	CORE	7,203.0	Recover inner barrel Layout inner barrel(Core recovery 3.45m/115.0%) Suspend drop next inner barrel for checking #20K core recovery due to suspect core dropping while recovering inner barrel at #19K due to low recovery(11.3%) Confirm no dropped core based on the #20K recovery(115%) Check #20K core hardness and confirm this formation suit for soft spring. Decision made to continue to use short finger(soft) Unload sinker bar.
0:45	1:30	0:45	CORE	7,203.0	Drop C0026B #21K(SDRCB) inner barrel. Drop inner barrel. Pump 5m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.4 to 4.5MPa w/275gpm 31min after dropping. Then sweep out SWG w/650gpm x 20.5MPa
1:30	4:00	2:30	CORE	7,208.5	Cut C0026B #21K(SDRCB) core from 7,203.0 - 7,208.5mBRT (247.0 - 252.5mbsf) 7,203.0 - 7,208.5mBRT (247.0 - 252.5mbsf), MP 200gpm x 2.6-3.2MPa, HPS 60rpm x 0.9-7.0kNm, WOB 0-60kN, Auto ROP 90m/hr Pressure gradually increase while coring from 2.6 to 3.2MPa. And WOB and Compensator position also gradually increase until finish cut core. Load and run sinker bar. Recover inner barrel(Core recovery 3.45m/62.7%)
4:00	4:45	0:45	CORE	7,208.5	Drop C0026B #22K(SDRCB) inner barrel. Drop inner barrel. Confirm inner barrel landing by increasing pressure from 2.3 to 4.5MPa w/275gpm 33min after dropping. Bottoms up w/650gpm x 20.0MPa
4:45	7:15	2:30	CORE	7,214.0	Cut C0026B #22K(SDRCB) core from 7,208.5 - 7,214.0mBRT (252.5 - 258.0mbsf) 7,208.5 - 7,214.0mBRT (252.5 - 258.0mbsf), MP 200gpm x 2.7-4.0MPa, HPS 70rpm x 0.9-7.0kNm, WOB 0-35kN, Auto ROP 90m/hr Pressure gradually increase while coring from 2.7 to 4.0MPa. And WOB and Compensator position also gradually increase until finish cut core. Load and run sinker bar. Recover inner barrel(Core recovery 1.78m/32.4%)
7:15	8:15	1:00	CORE	7,214.0	Drop C0026B #23K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Make a stand connection. Pump 5m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.5 to 4.8MPa w/275gpm 33min after dropping. Then sweep out SWG w/650gpm x 19.9MPa
8:15	10:45	2:30	CORE	7,217.0	Cut C0026B #23K(SDRCB) core from 7,214.0 - 7,217.0mBRT (258.0 - 261.0mbsf) 7,214.0 - 7,217.0mBRT (258.0 - 261.0mbsf), MP 250gpm x 3.6-4.5MPa, HPS 80rpm x 0.9-5.5kNm, WOB 0-30kN, Auto ROP 80m/hr Pressure gradually increase while coring from 3.6 to 4.5MPa. And WOB and Compensator position also gradually increase until finish cut core. Load and run sinker bar. Recover inner barrel(Core recovery 0.90m/30.0%)
10:45	11:45	1:00	CORE	7,217.0	Drop C0026B #24K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Make a stand connection. Pump 5m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.5 to 4.4MPa w/275gpm 33min after dropping. Then sweep out SWG w/650gpm x 19.8MPa
11:45	14:15	2:30	CORE	7,220.0	Cut C0026B #24K(SDRCB) core from 7,217.0 - 7,220.0mBRT (261.0 - 264.0mbsf) 7,217.0 - 7,220.0mBRT (261.0 - 264.0mbsf), MP 200gpm x 2.6-3.7MPa, HPS 50rpm x 0.9-6.0kNm, WOB 0-45kN, Auto ROP 90m/hr Pressure gradually increase while coring from 2.6 to 3.7MPa. And WOB and Compensator position also gradually increase until finish cut core. Load and run sinker bar. Recover inner barrel(Core recovery 2.26m/75.3%)
14:15	15:15	1:00	CORE	7,220.0	Drop C0026B #25K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 5m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.5 to 4.5MPa w/275gpm 34min after dropping. Then sweep out SWG w/650gpm x 20.0MPa
15:15	17:45	2:30	CORE	7,223.0	Cut C0026B #25K(SDRCB) core from 7,220.0 - 7,223.0mBRT (264.0 - 267.0mbsf) 7,220.0 - 7,223.0mBRT (264.0 - 267.0mbsf), MP 200gpm x 2.7-4.0MPa, HPS 40rpm x 0.0-5.0kNm, WOB 0-69kN, Auto ROP 90m/hr Pressure gradually increase while coring from 2.8 to 4.0MPa. And WOB and Compensator position also gradually increase until finish cut core. Load and run sinker bar. Recover inner barrel(Core recovery 2.23m/74.3%)
17:45	18:45	1:00	CORE	7,223.0	Drop C0026B #26K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 5m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.5 to 4.5MPa w/275gpm 33min after dropping. Then sweep out SWG w/650gpm x 19.8MPa
18:45	21:15	2:30	CORE	7,226.0	Cut C0026B #26K(SDRCB) core from 7,223.0 - 7,226.0mBRT (267.0 - 270.0mbsf) 7,223.0 - 7,226.0mBRT (267.0 - 270.0mbsf), MP 200gpm x 2.8-4.0MPa, HPS 40rpm x 0.0-5.0kNm, WOB 10-50kN, Auto ROP 90m/hr Torque indication is observed from 7,222.5mBRT(1.0m shallower than previous depth.) Pressure gradually increase while coring from 2.8 to 4.0MPa. And WOB and Compensator position also gradually increase until finish cut core. Load and run sinker bar. Recover inner barrel(Core recovery 1.90m/63.3%)
21:15	22:45	1:30	CORE	7,226.0	Drop C0026B #27K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Make a stand connection. Pump 5m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.6 to 4.8MPa w/275gpm 48min after dropping. Then sweep out SWG w/650gpm x 20.0MPa
22:45	24:00	1:15	CORE	7,229.5	Cut C0026B #27K(SDRCB) core from 7,226.0 - 7,229.5mBRT (270.0 - 273.5mbsf) 7,226.0 - 7,229.5mBRT (270.0 - 273.5mbsf), MP 200gpm x 2.8-3.9MPa, HPS 40rpm x 0.0-5.0kNm, WOB 20-50kN, Auto ROP 90m/hr Torque indication is observed from 7,222.0mBRT(1.0m shallower than previous depth, estimated due to low tide.) Pressure gradually increase while coring from 2.8 to 3.9MPa. And WOB and Compensator position also gradually increase until finish cut core. Load and run sinker bar. ongoing.
					(00:00-02:40) Advisory status due to the wind speed over 18m/s
					Meanwhile, Continue to conduct retermination of UWTV(OCC), on going. Planned finish date :7th Nov. Prepare space out for HPCS and ESCS ESCS #A: Stick out from bit 179mm, slack off 10mm into bit. ESCS #B: Stick out from bit 175mm, slack off 7mm into bit. HPCS #A, #B:95mm into bit.

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	1:00	1:00	CORE	7,229.5	Recover inner barrel Recover inner barrel(Core recovery 2.70m/77.1%). Unload sinker bar.
1:00	1:30	0:30	CORE	7,229.5	Drop C0026B #28K(SDRCB) inner barrel. Drop inner barrel. Pump 5m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.5 to 4.4MPa w/275gpm 33min after dropping. Then sweep out SWG w/650gpm x 19.9MPa
1:30	4:30	3:00	CORE	7,232.5	Cut C0026B #28K(SDRCB) core from 7,229.5 - 7,232.5mBRT (273.5 - 276.5mbsf) 7,229.5 - 7,232.5mBRT (273.5 - 276.5mbsf), MP 200gpm x 2.7-3.9MPa, HPS 40rpm x 0.9-5.0kNm, WOB 10-45kN, Auto ROP 90m/hr Torque and pressure indication is observed from 7,228.5mBRT(1.0m shallower than previous depth) Pressure gradually increase while coring from 2.7 to 3.9MPa. And WOB and Compensator position also gradually increase until finish cut core. Load and run sinker bar. Recover inner barrel(Core recovery 3.25m/108.3%)
4:30	5:30	1:00	CORE	7,232.5	Drop C0026B #29K(SDRCB) inner barrel. Drop inner barrel. Confirm inner barrel landing by increasing pressure from 2.5 to 4.5MPa w/275gpm 33min after dropping. Bottoms up w/650gpm x 20.0MPa
5:30	6:00	0:30	CORE	7,235.5	Cut C0026B #29K(SDRCB) core from 7,232.5 - 7,235.5mBRT (276.5 - 279.5mbsf) 7,232.5 - 7,235.5mBRT (276.5 - 279.5mbsf), MP 200gpm x 2.6-3.7MPa, HPS 40rpm x 0.9-5.0kNm, WOB 10-80kN, Auto ROP 90m/hr Pressure gradually increase while coring from 2.6 to 3.7MPa. And WOB and Compensator position also gradually increase until finish cut core. Observe torque reduce from 5kNm to 3kNm at 7,235.0 to 7,235.5mBRT Load and run sinker bar. Recover inner barrel, ongoing

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)	Inner	Outer	Dull	Loc.	B	G	O.D.	RP
4	8.5	NOV	CJPC616S-A1	-	F312427	6 x 16	6,956.0	7,229.5	273.5	3.92	0	60	0	90	7.47	69.8					

BHA Record @24:00

7	SDRCB	8-1/2"Core bit x Float valve sub x Near bit sub w/8-1/2"stabilizer x Outer core barrel x Landing sub w/8-1/2"stabilizer x Head sub x XOH1 x 6-3/4"Coring Collar (5stds) x XOE2 x 5"DP V-150 (23stds) x XOH3 x 5"DP S-140 (66stds) x 5-1/2"DP S-140 (22stds) x XOH4 x 5-1/2"DP S-150 (25stds) x XOH5 x 5-1/2"DP UD-165 (30stds) x XOH6 x 6-5/8"DP Z-140 (13stds) x 6-5/8"DP UD-165	Hook Wt. (knt) @24:00 7,220.0 mBRT
			Hook Load 3,650
			BHA 140
			Below Jar
			HPS & Traveling block 680
			CSG/TBG

Mud Properties @24:00

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

Mud Pumps - 14-P-220

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	MarE3	5
1	6"	65	350	20.5	6"DC 5"DP	MOJ Crew	98
2	6"				MWJ	20	
4	6"	65	350		Scientist	27	
						JAMSTEC PR	1

Item	Received	Used	Stock
Barite			76,000
Tel-Gel			118,000
Caustic soda			5,275
Lime			5,440

No.	Time		Passenger	
Ft.	Arrived	Departed	Are.	Dept.
1				
2				

Boat Information @24:00				

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	301.0	63.8	44.8
Potable Water	m3	206.0	4.0	0.0
Drill Water	m3	786.2	0.0	43.2
Fuel	m3	4,400.0	41.3	0.0
Lube Oil	Ltrs	115,000	0.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0

Sub-contractor	
OCC	4
WL	
Expro	
NuStar	3
GE	
Total	158

Mud volume	
PHG (m3)	310
Kill mud (m3)	47
SWG (m3)	107
Pre-Mix (m3)	30

Marine Information @24:00	
Heave (m)	0.3
Pitch (deg)	0.2
Roll (deg)	0.1
Vessel Heading (deg)	005
Riser Tension (kN)	-
V.D. Load (ton)	12535
Max Draught (m)	9.0
Thruster (kW)	350

Ibuki (Guard boat)	Status	On the way to Chikyū
HSQE and other information		
Incident	Last Incident	No. LTI
LTI	11/14/19	
HUNS cards	31	
Remarks		
• General safety meeting (English): 0:30		
• General safety meeting (Japanese): 7:15, 13:15		