

Chikyuu DAILY MORNING REPORT

Mission No. :CK24-01

Exp. No. :405

Report No. :58

Site NameJTCT-02AHole NameC0026BLat.37°55.5857'NLong.144°04.1280'ESeabed Depth :6,956.0 mBRTRT-MSL :28.5 mReport Date :3/Nov/2024

Depth : @24:007,105.0 mBRT149.0 mbsfProgress :59.5 mDrilling/Coring/Underreaming Hrs. :24.00 hrs

Depth : @06:007,114.5 mBRT158.5 mbsfLAST CASING :x mbsf(mBRT)

Summary of Operation on2-Nov: Cut SD-RCB core #2 - #7

Present Operation @ 06:00 on3-Nov: Recover inner barrel

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

mBRT: meter below rotary table

mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	1:45	1:45	CORE	7,045.5	Continue to recover inner barrel
1:45	3:00	1:15	CORE	7,045.5	Drop C0026B #2K(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 5.2MPa w/275gpm 33min after dropping. Then sweep out SWG w/650/700gpm x 23.7/27.4MPa (Suspect pressure increase due to bit nozzle plugged)
3:00	5:45	2:45	CORE	7,055.5	Cut C0026B #2K(SDRCB) core from 7,045.5 - 7,055.5mBRT (89.5 - 99.5mbsf) 7,045.5 - 7,055.5mBRT (89.5 - 99.5mbsf), MP 300gpm x 5.3-5.8MPa, HPS 60rpm x 0.9-5.5kNm, WOB 0-20kN, Auto ROP 60m/hr Load and run sinker bar. Recover inner barrel. Unload sinker bar then layout single.
5:45	6:45	1:00	CORE	7,055.5	Drop C0026B #3K(SDRCB) inner barrel. Drop inner barrel then make a stand connection. Pump 5m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.5 to 5.2MPa w/275gpm 33min after dropping. Then sweep out SWG w/650gpm x 20.8MPa (Observe pressure back to normal, and is released from plugged of bit nozzle)
6:45	9:00	2:15	CORE	7,065.5	Cut C0026B #3K(SDRCB) core from 7,055.5 - 7,065.5mBRT (99.5 - 109.5mbsf) 7,055.5 - 7,065.5mBRT (99.5 - 109.5mbsf), MP 250gpm x 3.4-3.8MPa, HPS 50rpm x 0.9-4.5kNm, WOB 0-60kN, ROP 90-100m/hr Load and run sinker bar. Recover inner barrel.
9:00	10:15	1:15	CORE	7,065.5	Drop C0026B #4K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 5m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.4 to 4.5MPa w/275gpm 33min after dropping. Then sweep out SWG w/650gpm x 21.5MPa
10:15	12:30	2:15	CORE	7,075.5	Cut C0026B #4K(SDRCB) core from 7,065.5 - 7,075.5mBRT (109.5 - 119.5mbsf) 7,065.5 - 7,075.5mBRT (109.5 - 119.5mbsf), MP 300gpm x 4.8-5.0MPa, HPS 80rpm x 0.9-7.0kNm, WOB 0-30kN, Auto ROP 90-120m/hr Load and run sinker bar. Recover inner barrel.
12:30	13:45	1:15	CORE	7,075.5	Drop C0026B #5K(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 4.4MPa w/275gpm 36min after dropping. Then sweep out SWG w/650gpm x 20.8MPa
13:45	17:15	3:30	CORE	7,085.5	Cut C0026B #5K(SDRCB) core from 7,075.5 - 7,085.5mBRT (119.5 - 129.5mbsf) 7,075.5 - 7,085.5mBRT (119.5 - 129.5mbsf), MP 300gpm x 4.5-5.1MPa, HPS 80rpm x 0.9-5.0kNm, WOB 0-40kN, Auto ROP 120m/hr Load and run sinker bar. Recover inner barrel.
17:15	18:30	1:15	CORE	7,085.5	Drop C0026B #6K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 5m3 of SWG, then make drill pipe stand connection. Confirm inner barrel landing by increasing pressure from 2.5 to 4.4MPa w/275gpm 39min after dropping. Sweep out SWG w/650gpm x 21.9MPa.
18:30	21:15	2:45	CORE	7,095.5	Cut C0026B #6K(SDRCB) core from 7,085.5 - 7,095.5mBRT (129.5 - 139.5mbsf) 7,085.5 - 7,095.5mBRT (129.5 - 139.5mbsf), MP 300gpm x 4.7-5.2MPa, HPS 80rpm x 0.9-6.0kNm, WOB 0-20kN, ROP 150m/hr Load and run sinker bar. Recover inner barrel.
21:15	22:15	1:00	CORE	7,095.5	Drop C0026B #7K(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 4.4MPa w/275gpm 36min after dropping. Then sweep out SWG w/650gpm x 20.8MPa
22:15	24:00	1:45	CORE	7,105.0	Cut C0026B #7K(SDRCB) core from 7,095.5 - 7,105.0mBRT (139.5 - 149.0mbsf) 7,095.5 - 7,105.0mBRT (139.5 - 149.0mbsf), MP 300gpm x 4.6-5.1MPa, HPS 80rpm x 0.9-8.0kNm, WOB 0-30kN, Auto ROP 90m/hr Load and run sinker bar, on going.
					Remarks Core length(#2-#6): 10m advance to adjust coring length with drill pipe joint Meanwhile (12:00) Ibuki sail to Shiogama Port. ETA 07:00 on 3rd Nov. (18:00-19:50) Advisory status due to the wind speed over 18m/s

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	0:45	0:45	CORE	7,105.0	Continue to recover inner barrel
0:45	1:45	1:00	CORE	7,105.0	Drop C0026B #8K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 5m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.4 to 4.5MPa w/275gpm 33min after dropping. Then sweep out SWG w/650gpm x 20.9MPa
1:45	4:00	2:15	CORE	7,114.5	Cut C0026B #8K(SDRCB) core from 7,105.0 - 7,114.5mBRT (149.0 - 158.5mbsf) 7,105.0 - 7,114.5mBRT (149.0 - 158.5mbsf), MP 300gpm x 4.7-5.3MPa, HPS 80rpm x 0.9-6.0kNm, WOB 0-20kN, Auto ROP 150m/hr Load and run sinker bar. Recover inner barrel.
4:00	5:00	1:00	CORE	7,114.5	Drop C0026B #9K(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 4.6MPa w/275gpm 33min after dropping. Then sweep out SWG w/650gpm x 20.3MPa
5:00	6:00	1:00	CORE(N)	7,114.5	Recover C0026B #9K(SDRCB) inner barrel Suspect sudden recovery drop to 1/3 on #7 and #8 core is due to the change of the catcher to "Combo+Short with the soft spring" from "Short with soft spring". The catcher made the core broken into the peaces while cutting core since it is still soft sediments. #9K had been dropped before checking the result of #8. #9 core is retrieved without cutting the core.

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	CJP0816S-A1	-	F312427	6 x 16	6,956.0	7,105.0	149.0	2.78	0	40	0	90	2.95	53.6					

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 XO#1 x 6-3/4"Coring Collar (5stds) x XO#2 x 5"DP V-150 (23stds) x XO#3 x 5"DP S-140 (66stds) x 5-1/2"DP S-140 (22stds) x XO#4 x 5-1/2"DP S-150 (25stds) x XO#5 x 5-1/2"DP UD-165 (30stds) x XO#6 x 6-5/8"DP Z-140 (13stds) 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	PI	Cl-	Sand	Oil	Solid	MBC	Temp In	Temp Out	K+	n	K	LGS	FIT 20/40 (mm)

Mud Pumps : 14-P-220

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"	70	350	27.4	6"DC 5"DP
2	6"				
4	6"	70	350		

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	302.0	63.8	88.8
Potable Water	m3	170.0	4.0	0.0
Drill Water	m3	920.0	0.0	0.0
Fuel	m3	4,524.1	40.7	0.0
Lube Oil	Ltrs	116,800	0.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0

Personnel @24:00

MarE3	6
MJQ Crew	98
MWJ	20
Scientist	28
Outreach	
JAMSTEC PR	1
Sub-contractor	
Oceanengineering	
WL	
Expro	
NuStar	3
GE	
Total	156

Mud Materials on Board @24:00hrs

Item	Received	Used	Stock
Barite			76,000
Tel-Gel			136,000
Caustic soda			5,525
Lime			5,680
Flowzan			25

Mud volume

PHG (m3)	176
Kill mud (m3)	47
SWG (m3)	87
Pre-Mix (m3)	30

Marine Information @24:00

Heave (m)	0.3
Pitch (deg)	0.3
Roll (deg)	0.1
Vessel Heading (deg)	040
Riser Tension (kN)	-
V.D. Load (ton)	12587
Max Draught (m)	9.0
Thruster (kW)	550

Heli Information @24:00

Flt. No.	Time	Passenger
	Arrived	Departed
1		
2		

Boat Information @24:00

Akatsuki (Supply boat)	Status	Standby at Chikyuu
Ibuki (Guard boat)	Status	On the way to Shiogama

HSQE and other information

Incident	Last Incident	No. LTI
LTI	11/14/19	
HUNS cards	29	

Remarks

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

Daily	
Cumulative	

Reported by : Y. Oishi, N. Sakurai

Approved by : T. Saruhshi