

Chikyu DAILY MORNING REPORT

Mission No. :CK24-01Exp. No. :405Report No. :60

Site NameJTCT-02AHole NameC0026B

Lat.37°55.5857'NLong.144°04.1280'ESeabed Depth :6,956.0mBRT

RT-MSL :28.5 mReport Date :5/Nov/2024

Depth : @24:007,203.0mBRT247.0mbsfProgress :41.0mDrilling/Coring/Underreaming Hrs. :24.00hrs

Depth : @06:007,214.0mBRT258.0mbsfLAST CASING :x mbsf(mBRT)

Summary of Operation on4-Nov: Cut SD-RCB core #14 - #20

Present Operation @ 06:00 on5-Nov: Recover #22 inner barrel

Time Breakdown (00:00 - 24:00 on4-Nov)

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

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	1:15	1:15	CORE	7,162.0	Drop C0026B #14K(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 39min after dropping. Then sweep out SWG w/650gpm x 20.2MPa
1:15	3:30	2:15	CORE	7,171.5	Cut C0026B #14K(SDRCB) core from 7,162.0 - 7,171.5mBRT (206.0 - 215.5mbsf) 7,162.0 - 7,171.5mBRT (206.0 - 215.5mbsf), MP 250gpm x 3.5-4.0MPa, HPS 60rpm x 0.9-5.0kNm, WOB 0-35kN, Auto ROP 120m/hr Load and run sinker bar. Recover inner barrel.
3:30	4:30	1:00	CORE	7,171.5	Drop C0026B #15K(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 4.2MPa w/275gpm 33min after dropping. Then sweep out SWG w/650gpm x 20.3MPa
4:30	6:45	2:15	CORE	7,181.0	Cut C0026B #15K(SDRCB) core from 7,171.5 - 7,181.0mBRT (215.5 - 225.0mbsf) 7,171.5 - 7,181.0mBRT (215.5 - 225.0mbsf), MP 250gpm x 3.8-4.0MPa, HPS 60rpm x 0.9-5.0kNm, WOB 0-25kN, Auto ROP 150m/hr Load and run sinker bar. Recover inner barrel
6:45	7:45	1:00	CORE	7,181.0	Drop C0026B #16K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Confirm inner barrel landing by increasing pressure from 2.6 to 4.3MPa w/275gpm 33min after dropping. Then sweep out SWG w/650gpm x 20.2MPa
7:45	10:00	2:15	CORE	7,188.0	Cut C0026B #16K(SDRCB) core from 7,181.0 - 7,188.0mBRT (225.0 - 232.0mbsf) 7,181.0 - 7,188.0mBRT (225.0 - 232.0mbsf), MP 250gpm x 3.8-4.1MPa, HPS 60rpm x 0.9-5.5kNm, WOB 0-15kN, Auto ROP 120m/hr Load and run sinker bar. Recover inner barrel.
10:00	11:00	1:00	CORE	7,188.0	Drop C0026B #17K(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 4.1MPa w/275gpm 33min after dropping. Then sweep out SWG w/650gpm x 20.7MPa
11:00	13:15	2:15	CORE	7,194.0	Cut C0026B #17K(SDRCB) core from 7,188.0 - 7,194.0mBRT (232.0 - 238.0mbsf) 7,188.0 - 7,194.0mBRT (232.0 - 238.0mbsf), MP 250gpm x 3.7-3.8MPa, HPS 60rpm x 0.9-5.0kNm, WOB 0-40kN, Auto ROP 120m/hr Load and run sinker bar. Recover inner barrel.
13:15	14:15	1:00	CORE	7,194.0	Drop C0026B #18K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Confirm inner barrel landing by increasing pressure from 2.5 to 4.2MPa w/275gpm 34min after dropping. Sweep out SWG w/650gpm x 19.9MPa
14:15	16:45	2:30	CORE	7,197.0	Cut C0026B #18K(SDRCB) core from 7,194.0 - 7,197.0mBRT (238.0 - 241.0mbsf) 7,194.0 - 7,197.0mBRT (238.0 - 241.0mbsf), MP 250gpm x 3.5-3.9MPa, HPS 60rpm x 0.9-6.0kNm, WOB 0-40kN, Auto ROP 120m/hr Load and run sinker bar. Recover inner barrel.
16:45	17:45	1:00	CORE	7,197.0	Drop C0026B #19K(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 4.2MPa w/275gpm 34min after dropping. Then sweep out SWG w/650gpm x 19.8MPa
17:45	20:00	2:15	CORE	7,200.0	Cut C0026B #19K(SDRCB) core from 7,197.0 - 7,200.0mBRT (241.0 - 244.0mbsf) 7,197.0 - 7,200.0mBRT (241.0 - 244.0mbsf), MP 250gpm x 3.7-4.6MPa, HPS 60rpm x 0.9-6.0kNm, WOB 0-45kN, Auto ROP 120m/hr Load and run sinker bar. Recover inner barrel.
20:00	21:45	1:45	CORE	7,200.0	Drop C0026B #20K(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 4.5MPa w/275gpm 55min after dropping. Then sweep out SWG w/650gpm x 19.6MPa
21:45	24:00	2:15	CORE	7,203.0	Cut C0026B #20K(SDRCB) core from 7,200.0 - 7,203.0mBRT (244.0 - 247.0mbsf) 7,200.0 - 7,203.0mBRT (244.0 - 247.0mbsf), MP 200gpm x 2.5-3.5MPa, HPS 60rpm x 0.9-6.0kNm, WOB 0-50kN, Auto ROP 90m/hr Lowering Bit slowly to bottom, suspect there is remaining core exist on bottom. Torque indication is observed from 7,199.0mBRT (1.0m shallower than previous depth, estimated due to low tide.) After reaching 7,203.0mBRT, wait 5min while pumping 200gpm and rotate with 10-60rpm. Load and run sinker bar. Recover inner barrel, on going. Meanwhile, Continue to conduct retermination of UWTV(OCC), on going. Planned finish date :7th Nov. Prepare space out for HPSCS and ESCS
0:00	0:45	0:45	CORE	7,203.0	Recover inner barrel Layout inner barrel. 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 formaton 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 Load and run sinker bar. Recover inner barrel.
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	6:00	1:15	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 Load and run sinker bar. Recover inner barrel, ongoing (00:00-02:40) Advisory status due to the wind speed over 18m/s

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.	ROP	Dull Condition								
							From	To		Min.	Max.	Min.	Max.	Inner	Outer	Dull	Loc.	B	G	O.D.	RP	
4	8.5	NOV	CJPC816S-A1	-	F312427	6 x 16	6,956.0	7,203.0	247.0	3.60	0	45	0	90	6.41	68.6						

BHA Record @24:00

		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																		
7	SDRCB																			

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) 0 min	5 min

Mud Pumps : 14-P-220

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	
1	6"	65	350	20.7	6"DC 5"DP	
2	6"				196	111
4	6"	65	350			

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	320.0	53.9	41.9
Potable Water	m3	210.0	3.6	46.6
Drill Water	m3	743.0	2.0	0.0
Fuel	m3	4,441.3	41.8	0.0
Lube Oil	Ltrs	115,000	1,800.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0

Weather Information

Time	Weather	Temp. (degC)	Barometer (hPa)	Wind Speed (m/s)	Dir. (deg)	Gust (m/s)	Height (m)	Wave Dir. (deg)	Period (s)	Current Speed(knt)	Dir. (deg)	Visibility (km)	
24:00	bc	22.0	23.9	1013.2	17.0	233	22.1	3.7	200	6.1	0.5	117	22.0

Today's Schedule: Continue to cut SD-RCB core

Personnel @24:00

MarE3	5
MQJ Crew	98
MWJ	20
Scientist	27
JAMSTEC PR	1

Mud Materials on Board @24:00hrs (unit: kg)

Item	Received	Used	Stock
Barite			76,000
Tel-Gel			118,000
Caustic soda			5,275
Lime			5,440
Flowzan			25

Mud volume

PHG (m3)	341
Kill mud (m3)	47
SWG (m3)	78
Pre-Mix (m3)	60

Marine Information @24:00

Heave (m)	0.4
Pitch (deg)	0.3
Roll (deg)	0.2
Vessel Heading (deg)	245
Riser Tension (kN)	-
V.D. Load (ton)	12574
Max Draught (m)	9.0
Thruster (kW)	1200

Well Information @24:00

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

Boat Information @24:00

Akatsuki (Supply boat)	Status	Standby at Chikyu
Ibuki (Guard boat)	Status	Shiogama port

HSQE and other information

Incident	Last Incident	No. LT1
LT1	11/14/19	
HUNS cards	26	

Remarks

- Emergency drill for Fire and Abandon ship
- Emergency drillGeneral safety meeting (English): 7:00, 13:00, 19:00

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

Daily	
Cumulative	

Reported by : Y. Oishi, N. Sakurai

Approved by : T. Saruhsu