

Chikyu DAILY MORNING REPORT

Mission No. :CK24-01

Exp. No. :405

Report No. :38

Site NameJTCT-01A

Hole NameC0019J

Lat.37°56.3286'N

Long.143°54.7764'E

Seabed Depth :6,927.5 mBRT

RT-MSL :28.5 m

Report Date :14/Oct/2024

Depth : @24:007,362.0 mBRT434.5 mbsf

Progress :47.5 m

Drilling/Coring/Underreaming Hrs. :24.00 hrs

Depth : @06:007,381.0 mBRT453.5 mbsf

LAST CASING :x mbsf(mBRT)

Summary of Operation on13-Oct : Cut SD-RCB #33 - #37

Present Operation @ 06:00 on14-Oct : Cut SD-RCB #38 - #39

mBRT: meter below rotary table

mbsf: meter below sea floor

Time Breakdown (00:00 - 24:00 on13-Oct)

Detail of Operation

From	To	Hrs	Code	Depth(mBRT)	
0:00	2:15	2:15	CORE	7,314.5	Recover inner barrel
2:15	3:15	1:00	CORE	7,314.5	Drop C0019J #33K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 5m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 4.2 to 5.4MPa w/275gpm 34min after dropping. Check pressure with 400/500/600gpm x 9.8/13.8/18.6MPa. Confirm pressure back to normal since 400gpm. Then bottoms up w/650gpm x 21.5MPa.
3:15	7:30	4:15	CORE	7,324.0	Cut C0019J #33K(SDRCB) core from 7,314.5 - 7,324.0mBRT (387.0 - 396.5mbsf) 7,314.5 - 7,324.0mBRT (387.0 - 396.5mbsf), MP 350gpm x 6.3-7.0MPa, HPS 90rpm x 0.1-10.0kNm, WOB 10-60kN, Auto ROP 50m/hr Clean AKEMA wiper and sinker bar covered in grease. Load and run sinker bar, then recover inner barrel.
7:30	8:45	1:15	CORE	7,324.0	Drop C0019J #34K(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 36min after dropping. Then sweep out SWG w/650gpm x 20.0MPa
8:45	12:00	3:15	CORE	7,333.5	Cut C0019J #34K(SDRCB) core from 7,324.0 - 7,333.5mBRT (396.5 - 406.0mbsf) 7,324.0 - 7,333.5mBRT (396.5 - 406.0mbsf), MP 350gpm x 5.6-7.1MPa, HPS 90rpm x 0.1-10.0kNm, WOB 20-90kN, Auto ROP 40m/hr Load and run sinker bar, then recover inner barrel.
12:00	13:15	1:15	CORE	7,333.5	Drop C0019J #35K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump SWG 5m3 then make drill pipe stand connection Confirm inner barrel already landed when start pumping with 275gpm x 4.6MPa after connection. Increase pump rate and bottoms up w/650gpm x 19.6MPa. Cut off 2cm of core liner compared to usual because the expansion of the liner is suspected (Core liner length: 9.934m).
13:15	16:00	2:45	CORE	7,343.0	Cut C0019J #35K(SDRCB) core from 7,333.5 - 7,343.0mBRT (406.0 - 415.5mbsf) 7,333.5 - 7,343.0mBRT (406.0 - 415.5mbsf), MP 350gpm x 5.7-6.4MPa, HPS 90rpm x 1.0-10.3kNm, WOB 20-80kN, Auto ROP 50m/hr Load and run sinker bar. Recover inner barrel. Measure the recovered core liner length 9.928m(-0.006m).
16:00	17:00	1:00	CORE	7,343.0	Drop C0019J #36K(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 4.3MPa w/275gpm 34min after dropping. Then sweep out SWG w/650gpm x 20.0MPa Cut off 2cm of core liner compared to usual (Core liner length: 9.932m).
17:00	19:30	2:30	CORE	7,352.5	Cut C0019J #36K(SDRCB) core from 7,343.0 - 7,352.5mBRT (415.5 - 425.0mbsf) 7,343.0 - 7,352.5mBRT (415.5 - 425.0mbsf), MP 350gpm x 5.8-6.3MPa, HPS 90rpm x 1.0-10.5kNm, WOB 10-50kN, Auto ROP 50m/hr Load and run sinker bar, then recover inner barrel. Measure the recovered core liner length 9.927m(-0.005m).
19:30	20:45	1:15	CORE	7,352.5	Drop C0019J #37K(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 34min after dropping. Then sweep out SWG w/550gpm x 14.7MPa Cut off 2cm of core liner compared to usual (Core liner length: 9.928m).
20:45	23:00	2:15	CORE	7,362.0	Cut C0019J #37K(SDRCB) core from 7,352.5 - 7,362.0mBRT (425.0 - 434.5mbsf) 7,352.5 - 7,362.0mBRT (425.0 - 434.5mbsf), MP 350gpm x 5.8-6.5MPa, HPS 90rpm x 0.3-12.1kNm, WOB 10-90kN, Auto ROP 50m/hr Load and run sinker bar, then recover inner barrel. Measure the recovered core liner length 9.927m(-0.001m).
23:00	24:00	1:00	CORE	7,362.0	Drop C0019J #38K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 5m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.6 to 4.1MPa w/275gpm 35min after dropping. Then sweep out SWG w/550gpm x 14.5MPa, ongoing. Cut off 2cm of core liner compared to usual (Core liner length: 9.935m).
					Meanwhile (09:04-10:00) Advisory status due to sensor malfunction of 3P Generator

Time Breakdown (00:00 - 06:00 on14-Oct)

* The data on 00:00 - 06:00 is unofficial.

Detail of Operation

From	To	Hrs.	Code	Depth(mBRT)	
0:00	0:30	0:30	CORE	7,362.0	Sweep out SWG w/550gpm x 14.5MPa.
0:30	3:45	3:15	CORE	7,371.5	Cut C0019J #38K(SDRCB) core from 7,362.0 - 7,371.5mBRT (434.5 - 444.0mbsf) 7,362.0 - 7,371.5mBRT (434.5 - 444.0mbsf), MP 350gpm x 5.8-6.7MPa, HPS 90rpm x 0.1-10.0kNm, WOB 10-50kN, Auto ROP 50m/hr Load and run sinker bar, then recover inner barrel. Install grease remover for removing coreline grease. Measure the recovered core liner length 9.930m(-0.005m)
3:45	5:00	1:15	CORE	7,371.5	Drop C0019J #39K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump SWG 5m3 then make drill pipe stand connection Confirm inner barrel landing by increasing pressure from 2.5 to 4.2MPa w/275gpm 43min after dropping. Increase pump rate and bottoms up w/650gpm x 19.5MPa.
5:00	6:00	1:00	CORE	7,381.0	Cut C0019J #39K(SDRCB) core from 7,371.5 - 7,381.0mBRT (444.0 - 453.5mbsf) 7,371.5 - 7,381.0mBRT (444.0 - 453.5mbsf), MP 350gpm x 5.8-6.6MPa, HPS 90rpm x 0.1-19.0kNm, WOB 20-60kN, Auto ROP 50m/hr Load and run sinker bar, 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										
3	8.5	NOV	CJPC713-A1	-	F312253	7 x 16	6,927.5	7,362.0	434.5	13.98	0	120	0	100	36.53	31.1								

BHA Record @24:00

5	SDRCB	6-1/2 Core bit x Float valve sub x Near bit sub w/6-1/2 stabilizer x Outer core barrel x Landing sub w/6-1/2 stabilizer x Head sub x XO#1 x 6-3/4 Coring Collar (3stds) x XO#2 x 5" DP UD-150 (22stds) 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
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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"	50	250		6"DC 5"DP
2	6"			21.5	182
4	6"	80	400		103

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	328.0	60.2	80.8
Potable Water	m3	233.5	3.5	0.0
Drill Water	m3	1,312.0	0.0	0.0
Fuel	m3	5,364.7	39.6	0.0
Lube Oil	Ltrs	122,400	1,500.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0

Personnel @24:00

MarE3	5
MQJ Crew	100
MWJ	20
Scientist	25
Outreach	2
JAMSTEC PR	
Sub-contractor	
WL	
Expro	
NuStar	3
GE	
Total	155

Mud Materials on Board @24:00hrs

(unit: kg)

Item	Received	Used	Stock
Barite			76,000
Tel-Gel			190,000
Caustic soda			8,625
Lime			8,560
Flowzan			25

Mud volume

PHG (m3)	347
Kill mud (m3)	50
SWG (m3)	83
Pre-Mix (m3)	35

Marine Information @24:00

Heave (m)	0.5
Pitch (deg)	0.4
Roll (deg)	0.2
Vessel Heading (deg)	050
Riser Tension (kN)	-
V.D. Load (ton)	14091
Max Draught (m)	9.0
Thruster (kW)	1300

Heli Information @24:00

Flt. No.	Time	Passenger		
	Arrived	Departed	Are.	Dept.
1	09:34	09:49	0	4
2				

Boat Information @24:00

Akatsuki (Supply boat)	Status	Current survey
Ibuki (Guard boat)	Status	Standby at Chikyu

HSQE and other information

Incident	Last Incident	No. LTI
LTI	11/14/19	
HUNS cards	30	

Remarks

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

Daily

Cumulative

Reported by : T.Yokoyama, Y.Oishi

Approved by : T.Saruhashi

Today's Schedule: Cut SD-RCB core