

Chikyu DAILY MORNING REPORT

Mission No. :CK24-01

Exp. No. :405

Report No. :41

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 :17/Oct/2024

Depth : @24:007,524.5 mBRT597.0 mbsf

Depth : @06:007,543.5 mBRT616.0 mbsf

Summary of Operation on16-Oct : Cut SD-RCB #50 - #54

Present Operation @ 06:00 on17-Oct : Cut SD-RCB #55 - #56

Time Breakdown (00:00 - 24:00 on16-Oct)

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	7,476.5	Recover inner barrel.
1:15	2:15	1:00	CORE	7,476.5	Drop C0019J #50K(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 36min after dropping. Then sweep out SWG w/650gpm x 19.6MPa
2:15	5:45	3:30	CORE	7,486.0	Cut C0019J #50K(SDRCB) core from 7,476.5 - 7,486.0mBRT (549.0 - 558.5mbsf) 7,476.5 - 7,486.0mBRT (549.0 - 558.5mbsf), MP 400gpm x 7.2-8.2MPa, HPS 90rpm x 0.1-19.0kNm, WOB 10-70kN, Auto ROP 40m/hr Load and run sinker bar, then recover inner barrel.
5:45	7:00	1:15	CORE	7,486.0	Drop C0019J #51K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump SWG 5m3 then make drill pipe stand connection Inner barrel is already landed when start pumping with 275gpm x 4.3MPa. Increase pump rate and bottoms up w/650gpm x 19.6MPa. While pumping, observe drag and increasing torque from 7,482 to 7,484mBRT. Then, increase HPS from 10rpm to 45rpm while pumping.
7:00	10:00	3:00	CORE	7,495.5	Cut C0019J #51K(SDRCB) core from 7,486.0 - 7,495.5mBRT (558.5 - 568.0mbsf) 7,486.0 - 7,495.5mBRT (558.5 - 568.0mbsf), MP 400gpm x 7.6-8.4MPa, HPS 90rpm x 0.1-10.0kNm, WOB 40-100kN Reduce ROP setting from 40m/hr to 30m/hr at 7,489.0mBRT due to increasing WOB. After cutting core, ream up and down from 7,490 to 7,480mBRT. Observe no drag while reaming. Load and run sinker bar, then recover inner barrel.
10:00	11:15	1:15	CORE	7,495.5	Drop C0019J #52K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 7m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.5 to 4.3MPa w/275gpm 36min after dropping. Then sweep out SWG w/650gpm x 19.2MPa
11:15	13:45	2:30	CORE	7,505.0	Cut C0019J #52K(SDRCB) core from 7,495.5 - 7,505.0mBRT (568.0 - 577.5mbsf) 7,495.5 - 7,505.0mBRT (568.0 - 577.5mbsf), MP 500gpm x 11.2-12.5MPa, HPS 90rpm x 0.1-10.0kNm, WOB 40-100kN, Auto ROP 35m/hr Load and run sinker bar, then recover inner barrel.
13:45	15:00	1:15	CORE	7,505.0	Drop C0019J #53K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 7m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.8 to 4.8MPa w/275gpm 34min after dropping. Then sweep out SWG w/650gpm x 19.8MPa
15:00	18:30	3:30	CORE	7,515.0	Cut C0019J #53K(SDRCB) core from 7,505.0 - 7,515.0mBRT (577.5 - 587.5mbsf) 7,505.0 - 7,515.0mBRT (577.5 - 587.5mbsf), MP 500gpm x 11.3-12.3MPa, HPS 60rpm x 0.1-7.0kNm, WOB 10-115kN, Auto ROP 40-20m/hr Reduce ROP setting from 40m/hr to 20m/hr at 7,505.5mBRT to prevent from packing the shoe. Observe pressure increases at 7,510.0mBRT, and increase ROP setting to 50m/hr. Load and run sinker bar, then recover inner barrel.
18:30	19:30	1:00	CORE	7,515.0	Drop C0019J #54K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 7m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.6 to 4.7MPa w/275gpm 36min after dropping. Then sweep out SWG w/650gpm x 20.0MPa
19:30	23:15	3:45	CORE	7,524.5	Cut C0019J #54K(SDRCB) core from 7,515.0 - 7,524.5mBRT (587.5 - 597.0mbsf) 7,515.0 - 7,524.5mBRT (587.5 - 597.0mbsf), MP 500gpm x 11.5-12.5MPa, HPS 60rpm x 0.5-7.3kNm, WOB 20-110kN, Auto ROP 20m/hr Start ROP setting 40m/hr and reduce ROP setting to 20m/hr once core is cut. Load and run sinker bar. Install grease remover and recover inner barrel.
23:15	24:00	0:45	CORE	7,524.5	Drop C0019J #55K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 7m3 of SWG w/275gpm. Make a EBT connection.

Time Breakdown (00:00 - 06:00 on17-Oct)

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

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	0:45	0:45	CORE	7,524.5	Sweep out SWG w/650gpm x 18.8MPa. Inner barrel is already landed when start pumping with 275gpm x 4.3MPa.
0:45	3:15	2:30	CORE	7,534.0	Cut C0019J #55K(SDRCB) core from 7,524.5 - 7,534.0mBRT (597.0 - 606.5mbsf) 7,524.5 - 7,534.0mBRT (597.0 - 606.5mbsf), MP 450gpm x 9.2-9.9MPa, HPS 90rpm x 0.1-10.0kNm, WOB 0-40kN Start ROP setting as 20m/hr, then increase ROP setting to 40m/hr after 1m advance. Load and run sinker bar, then recover inner barrel.
3:15	4:30	1:15	CORE	7,534.0	Drop C0019J #56K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 7m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.5 to 4.4MPa w/275gpm 37min after dropping. Then sweep out SWG w/650gpm x 19.2MPa
4:30	6:00	1:30	CORE	7,543.5	Cut C0019J #56K(SDRCB) core from 7,534.0 - 7,543.5mBRT (606.5 - 616.0mbsf) 7,534.0 - 7,543.5mBRT (606.5 - 616.0mbsf), MP 450gpm x 9.2-10.4MPa, HPS 90rpm x 0.1-11.0kNm, WOB 10-80kN Start ROP setting as 20m/hr, then increase ROP setting to 40m/hr after 1m advance. Load and run sinker bar, on going.
(04:30-05:00)Shift RGR to 0.8m offset position when current come from AFT side of Vessel					

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
3	8.5	NOV	CJPC713-A1	-	F312253	7 x 16	6,927.5	7,524.5	597.0	19.48	0	120	0	100							

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-130 (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

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

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"	65	325		6"DC 5"DP
2	6"			20.0	182
4	6"	65	325		103

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	292.0	62.5	39.7
Potable Water	m3	223.0	4.0	0.0
Drill Water	m3	1,306.0	0.0	0.0
Fuel	m3	5,241.8	42.1	0.0
Lube Oil	Ltrs	121,400	1,000.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0

Personnel @24:00

MarE3	5
MQJ Crew	101
MWJ	20
Scientist	25
Outreach	2
JAMSTEC PR	
Sub-contractor	
WL	2
Expro	
NuStar	3
GE	
Total	158

Mud Materials on Board @24:00hrs

Item	Received	Used	Stock
Barite			76,000
Tel-Gel			190,000
Caustic soda			8,375
Lime			8,230
Flowzan			25

Mud volume

PHG (m3)	281
Kill mud (m3)	48
SWG (m3)	120
Pre-Mix (m3)	31

Marine Information @24:00

Heave (m)	0.5
Pitch (deg)	0.3
Roll (deg)	0.2
Vessel Heading (deg)	000
Riser Tension (kN)	-
V.D. Load (ton)	13892
Max Draught (m)	9.0
Thruster (kW)	0

Heli Information @24:00

Flt. No.	Time	Passenger		
	Arrived	Departed	Are.	Dept.
1	09:32	09:45	14	14
2	13:55	14:19	9	6

Boat Information @24:00

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

HSQE and other information

Incident	Last Incident	No. LTI
LTI	11/14/19	
HUNS cards	32	

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