

Chikyu DAILY MORNING REPORT

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

Report No. :44

Site NameJTCT-01AHole NameC0019JLat.37°56.3286'NLong.143°54.7764'ESeabed Depth :6,927.5mBRTRT-MSL :28.5 mReport Date :20/Oct/2024

Depth : @24:007,705.5mBRT778.0mbsfProgress :66.5mDrilling/Coring/Underreaming Hrs. :24.00hrs

Depth : @06:007,715.0mBRT787.5mbsfLAST CASING :x mbsf(mBRT)

Summary of Operation on19-Oct :Cut SD-RCB #67 - #73

Present Operation @ 06:00 on20-Oct :Cut SD-RCB #74

Time Breakdown (00:00 - 24:00 on19-Oct)

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	7,639.0	Sweep out 10m3 of SWG w/650gpm x 19.5MPa.
0:45	3:00	2:15	CORE	7,648.5	Cut C0019J #67K(SDRCB) core from 7,639.0 - 7,648.5mBRT (711.5 - 721.0mbsf) 7,639.0 - 7,648.5mBRT (711.5 - 721.0mbsf), MP 450gpm x 9.2-9.8MPa, HPS 90rpm x 0.1-12.0kNm, WOB 10-65kN, Auto ROP 40m/hr Observe pressure increases to 9.8MPa from 9.4MPa at 7,645.5mBRT. Load and run sinker bar. Recover inner barrel.
3:00	4:15	1:15	CORE	7,648.5	Drop C0019J #68K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 10m3 SWG w/275gpm and confirm inner barrel landing by increasing pressure from 2.8 to 4.4MPa w/275gpm 35min after dropping. Sweep out SWG w/650gpm x 19.5MPa.
4:15	7:00	2:45	CORE	7,658.0	Cut C0019J #68K(SDRCB) core from 7,648.5 - 7,658.0mBRT (721.0 - 730.5mbsf) 7,648.5 - 7,658.0mBRT (721.0 - 730.5mbsf), MP 450gpm x 9.2-10.0MPa, HPS 90-100rpm x 0.1-11.0kNm, WOB 10-80kN, Auto ROP 40-30m/hr Reduce ROP setting to 30m/hr from 40m/hr and increase HPS speed to 100rpm from 90rpm. Observe pressure increases to 10.0MPa from 9.5MPa at 7,653.0mBRT. Load and run sinker bar. Recover inner barrel.
7:00	8:15	1:15	CORE	7,658.0	Drop C0019J #69K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump SWG 10m3 w/275gpm and Confirm inner barrel landing by increasing pressure from 2.8 to 4.5MPa w/275gpm 35min after dropping. Sweep out SWG w/650gpm x 19.4MPa
8:15	10:45	2:30	CORE	7,667.5	Cut C0019J #69K(SDRCB) core from 7,658.0 - 7,667.5mBRT (730.5 - 740.0mbsf) 7,658.0 - 7,667.5mBRT (730.5 - 740.0mbsf), MP 450gpm x 9.2-10.0MPa, HPS 90rpm x 0.1-12.8kNm, WOB 10-55kN, Auto ROP 40m/hr Observe pressure increases to 10.0MPa from 9.5MPa at 7,664.5mBRT. Load and run sinker bar, then recover inner barrel.
10:45	12:00	1:15	CORE	7,667.5	Drop C0019J #70K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 10m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.7 to 4.5MPa w/275gpm 36min after dropping. Then sweep out SWG w/650gpm x 19.6MPa
12:00	14:45	2:45	CORE	7,677.0	Cut C0019J #70K(SDRCB) core from 7,667.5 - 7,677.0mBRT (740.0 - 749.5mbsf) 7,667.5 - 7,677.0mBRT (740.0 - 749.5mbsf), MP 450gpm x 9.2-9.9MPa, HPS 90rpm x 0.1-11.7kNm, WOB 10-110kN, Auto ROP 40m/hr Observe pressure increases to 9.9MPa from 9.5MPa at 7,673.0mBRT. Load and run sinker bar. Recover inner barrel.
14:45	16:00	1:15	CORE	7,677.0	Drop C0019J #71K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump SWG 10m3 then make drill pipe stand connection Pump w/275gpm and confirm inner barrel landing by increasing pressure from 2.9 to 4.5MPa w/275gpm 43min after dropping. Sweep out SWG w/650gpm x 20.0MPa.
16:00	18:45	2:45	CORE	7,686.5	Cut C0019J #71K(SDRCB) core from 7,677.0 - 7,686.5mBRT (749.5 - 759.0mbsf) 7,677.0 - 7,686.5mBRT (749.5 - 759.0mbsf), MP 450gpm x 9.2-13.4MPa, HPS 90rpm x 0.1-13.0kNm, WOB 10-65kN, Auto ROP 40m/hr Observe pressure increases to 10.0MPa from 9.5MPa at 7,681.5mBRT. Observe pressure increases to 13.2MPa from 10.0MPa at 7,686.5mBRT. Decrease pump rate 450gpm => 150gpm and pump pressure 2.3MPa*. *0.8MPa higher than last #70 and suspect bit was plugged partially. Load and run sinker bar. Recover inner barrel.
18:45	19:45	1:00	CORE	7,686.5	Drop C0019J #72K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump SWG 10m3 w/275gpm and confirm inner barrel landing by increasing pressure from 3.2 to 4.7MPa w/275gpm 34min after dropping. Sweep out SWG w/650gpm x 21.0MPa. *Confirm center of bit was not plugged by pump pressure while chasing inner barrel.
19:45	22:30	2:45	CORE	7,696.0	Cut C0019J #72K(SDRCB) core from 7,686.5 - 7,696.0mBRT (759.0 - 768.5mbsf) 7,686.5 - 7,696.0mBRT (759.0 - 768.5mbsf), MP 450gpm x 9.2-10.2MPa, HPS 90rpm x 0.1-13.0kNm, WOB 10-80kN, Auto ROP 40m/hr No observation of pressure increase while coring. Load and run sinker bar. Recover inner barrel.
22:30	23:30	1:00	CORE	7,696.0	Drop C0019J #73K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump SWG 10m3 w/275gpm and confirm inner barrel landing by increasing pressure from 3.5 to 5.2MPa w/275gpm 34min after dropping. Sweep out SWG w/650gpm x 19.5MPa.
23:30	24:00	0:30	CORE	7,705.5	Cut C0019J #73K(SDRCB) core from 7,696.0 - 7,705.5mBRT (768.5 - 778.0mbsf) 7,696.0 - 7,705.5mBRT (768.5 - 778.0mbsf), MP 450gpm x 9.2-9.7MPa, HPS 90rpm x 0.1-11.0kNm, WOB 10-55kN, Auto ROP 40m/hr No observation of pressure increase while coring.
					Meanwhile, (08:30-24:00)Advisory status due to over 18m/s wind speed.
Time Breakdown (00:00 - 06:00 on20-Oct)					* The data on 00:00 - 06:00 is unofficial.
From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	2:15	2:15	CORE	7,705.5	Recover C0019J #73K(SDRCB) core inner barrel.
2:15	3:30	1:15	CORE	7,705.5	Drop C0019J #74K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump SWG 10m3 w/275gpm and confirm inner barrel landing by increasing pressure from 3.6 to 5.5MPa w/275gpm 35min after dropping. Sweep out SWG w/650gpm x 19.6MPa. Check pressure at 275gpm before starting coring and pressure is 4.7MPa (Same as normal), and confirm nozzle or bit is plugged after coring.
3:30	6:00	2:30	CORE	7,715.0	Cut C0019J #74K(SDRCB) core from 7,705.5 - 7,715.0mBRT (778.0 - 787.5mbsf) 7,705.5 - 7,715.0mBRT (778.0 - 787.5mbsf), MP 450gpm x 9.4-10.5MPa, HPS 90rpm x 0.1-12.2kNm, WOB 10-85kN, Auto ROP 40m/hr Observe pressure increases to 10.5MPa from 9.7MPa at 7,713.5mBRT. 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.	ROP (m/hr)	Dull Condition								
							From	To			Min.	Max.	Min.	Max.	(krev)			Inner	Outer	Dull	Loc.	B	G	O.D.	RP
3	8.5	NOV	CJPC713-A1	-	F312253	7 x 16	6,927.5	7,705.5	778.0	25.00	0	120	0	100	93.31	31.1									

BHA Record @24:00

No.	SDRCB	6-1/2" Core bit x Pilot 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 (5stds) x XO#2 x 5" DP V-150 (20stds) 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
5		

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 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	325	21.0	6"DC
2	6"				5"DP
4	6"	65	325		182 103

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	225.0	65.4	39.4
Potable Water	m3	215.0	4.0	0.0
Drill Water	m3	1,287.0	8.0	0.0
Fuel	m3	5,116.5	47.6	0.0
Lube, Oil	Ltrs	119,600	0.0	0.0
Helix Fuel	Ltrs	0.0	0.0	0.0

Weather Information

Time	Weather	Temp. (degC) Air	Barometer (hPa) SW	Wind Speed (m/s) Dir. (deg)	Wave Height (m) Dir. (deg)	Current Speed(knt) Dir. (deg)	Visibility (km)		
24:00	o	20.0	25.0	1011.0	14.9 358	16.7 3.5	190 5.9	0.2 117	22.0

Today's Schedule: Short trip. Resume to cut SD-RCB core once sea condition recovers

Personnel @24:00

MarE3	5
MQJ Crew	101
MWJ	20
Scientist	25
Outreach	
JAMSTEC PR	
Sub-contractor	
WL	
Expro	
NuStar	3
GE	
Total	154

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

Item	Received	Used	Stock
Barite			76,000
Tel-Gel			190,000
Caustic soda		275	7,850
Lime		240	7,840
Flowzan			25

Mud volume

PHG (m3)	185
Kill mud (m3)	48
SWG (m3)	131
Pre-Mix (m3)	60

Marine Information @24:00

Heave (m)	0.3
Pitch (deg)	0.3
Roll (deg)	0.2
Vessel Heading (deg)	340
Riser Tension (kN)	-
V.D. Load (ton)	13665
Max Draught (m)	9.0
Thruster (kW)	350

Fit. Information @24:00

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

Boat Information @24:00

	Status	Standby at Chikyu
Akatsuki (Supply boat)		
Ibuki (Guard boat)		Sail to Ishinomaki bay

HSQE and other information

Incident	Last Incident	No. LTI
LTI	11/14/19	
HUNS cards	57	

Remarks

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

Daily	Cumulative

Reported by : T.Miyoshi, T.Yokoyama

Approved by : I.Sawada