

Chikyu DAILY MORNING REPORT

Mission No. :CK24-01Exp. No. :405Report No. :47

Site NameJTCT-01AHole NameC0019JLat.37°56.3286'NLong.143°54.7764'ESeabed Depth :6,927.5 mBRTRT-MSL :28.5 mReport Date :23/Oct/2024

Depth : @24:007,746.5 mBRT819.0 mbsfProgress :12.0 mDrilling/Coring/Underreaming Hrs. :24.00 hrs

Depth : @06:007,749.5 mBRT822.0 mbsfLAST CASING :x mbsf(mBRT)

Summary of Operation on22-Oct : Cut SD-RCB #81 - #84

Present Operation @ 06:00 on23-Oct : Cut SD-RCB #85

Time Breakdown (00:00 - 24:00 on22-Oct)

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

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	1:30	1:30	CORE	7,734.5	Continue to recover inner barrel.
1:30	2:45	1:15	CORE	7,734.5	Drop C0019J #81K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 10m3 SWG. Pump to chase and confirm inner barrel landing by increasing pressure from 3.1 to 4.9MPa w/275gpm 35min after dropping. Observe torque increases (35rpm x 0.1-11.2kNm) at 7,732mBRT when SWG comes out from bit. Suspect torque are increased by cuttings at stabilizers. Pick up to 7,730mBRT and back to 7,732mBRT. Observe no torque and pressure increase. Back to the previous torque (1.8-3.0kNm) and pressure (19.0MPa). Increase pump rate to 650gpm x 18.7MPa and sweep out 10m3 SWG.
2:45	5:15	2:30	CORE	7,737.5	Cut C0019J #81K(SDRCB) core from 7,734.5 - 7,737.5mBRT (807.0 - 810.0mbsf) 7,734.5 - 7,737.5mBRT (807.0 - 810.0mbsf), MP 450gpm x 9.2-9.9MPa, HPS 90rpm x 0.1-12.1kNm, WOB 10-45kN, Auto ROP 40m/hr Reduce HPS speed to 30rpm and stop pumping after reaching 7,737.5mBRT. Wait 1min, and stop rotation and take 50kN WOB for plugging at shoe. No observation of pressure increase while coring. Load and run sinker bar. Recover inner barrel.
5:15	6:45	1:30	CORE	7,737.5	Drop C0019J #82K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 15m3 of SWG. Pump to chase and confirm inner barrel landing by increasing pressure from 3.1 to 5.0MPa w/275gpm 35min after dropping. Increase pump rate to 650gpm x 19.0MPa and sweep out 15m3 SWG. Observe torque increases (35rpm x 0.5-11.0kNm) at 7,736mBRT and when SWG comes out from bit. Work pipe between 7,736mBRT and 7,732mBRT 6times, and increase HPS speed to 60rpm at 5th time. Back to the previous torque and pressure.
6:45	10:30	3:45	CORE	7,740.5	Cut C0019J #82K(SDRCB) core from 7,737.5 - 7,740.5mBRT (810.0 - 813.0mbsf) 7,737.5 - 7,740.5mBRT (810.0 - 813.0mbsf), MP 450gpm x 9.4-9.8MPa, HPS 90rpm x 0.1-13.2kNm, WOB 10-60kN, Auto ROP 40m/hr Reduce HPS speed to 30rpm and stop pumping after reaching 7,740.5mBRT. Wait 3min, and stop rotation and take 30kN WOB for plugging at shoe. No observation of pressure increase while coring. Load and run sinker bar. Recover inner barrel and Unload sinker bar. Sweep out 15m3 SWG with 650gpm x 12.5MPa. Observe no torque and pressure increases: Back to the previous torque and pressure.
10:30	11:15	0:45	CORE	7,740.5	Drop C0019J #83K(SDRCB) inner barrel. Drop inner barrel w/chasing 275gpm and confirm inner barrel landing by increasing pressure from 2.7 to 4.1MPa w/275gpm 37min after dropping.
11:15	13:30	2:15	CORE	7,743.5	Cut C0019J #83K(SDRCB) core from 7,740.5 - 7,743.5mBRT (813.0 - 816.0mbsf) 7,740.5 - 7,743.5mBRT (813.0 - 816.0mbsf), MP 450gpm x 9.2-9.5MPa, HPS 90rpm x 0.5-12.0kNm, WOB 0-30kN, Auto ROP 40m/hr Reduce HPS speed to 30rpm and stop pumping after reaching 7,743.5mBRT. Wait 3min, and stop rotation and take 10-20kN WOB for plugging at shoe. No observation of pressure increase while coring. Load and run sinker bar. Recover inner barrel.
13:30	15:15	1:45	CORE	7,743.5	Drop C0019J #84K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 15m3 SWG. Pump to chase and confirm inner barrel landing by increasing pressure from 3.8 to 5.3MPa w/275gpm 35min after dropping. Increase pump rate to 650gpm x 19.0MPa and sweep out 15m3 SWG. Observe torque increases 40rpm x 1.0-8.4kN at 7,742mBRT and pressure increases 20.4MPa when SWG comes out from bit. Work pipe between 7,742mBRT and 7,735mBRT 6times and increase HPS speed to 60rpm at 2nd time. Observe Torque decreases to 60rpm x 2.1-3.5kNm and pressure decreases to 19.2MPa, but decide to recover inner barrel for hole cleaning again w/o inner barrel.
15:15	19:45	4:30	CORE	7,743.5	Recover C0019J #84K(SDRCB) inner barrel and hole cleaning. Load and run sinker bar. Recover inner barrel and Unload sinker bar. Observe 2.4m column of cuttings in inner barrel. Sweep out 15m3 SWG with 650gpm x 12.5MPa. Observe no torque and pressure increases, but observe sea water coming from DP after breaking out connection. Suspect cuttings remain at annulus, and sweep out again 15m3 SWG with 650gpm x 12.5MPa. Observe no torque and pressure increases. After breaking out connection, observe sea water coming from DP but decide to drop inner barrel.
19:45	21:00	1:15	CORE	7,743.5	Re-drop C0019J #84K(SDRCB) inner barrel. Drop inner barrel and pump 15m3 of SWG. Pump to chase w/275gpm and confirm inner barrel landing by increasing pressure from 2.8 to 5.1MPa w/275gpm 33min after dropping. Increase pump rate to 650gpm x 19.0MPa and sweep out 15m3 SWG. Observe torque increases to 1.0-5.9kN x 40rpm at 7,742.5mBRT and pressure increases to 19.5MPa when SWG comes out from the hole. Observe Torque decreases to 1.0-2.3kN x 40rpm and pressure decreases to 19.2MPa.
21:00	24:00	3:00	CORE	7,746.5	Cut C0019J #84K(SDRCB) core from 7,743.5 - 7,746.5mBRT (816.0 - 819.0mbsf) 7,743.5 - 7,746.5mBRT (816.0 - 819.0mbsf), MP 450gpm x 9.2-9.5MPa, HPS 90rpm x 0.5-12.0kNm, WOB 0-35kN, Auto ROP 40m/hr Reduce HPS speed to 30rpm and stop pumping after reaching 7,749.5mBRT. Wait 3min, and stop rotation and take 140kN WOB for plugging at shoe. No observation of pressure increase while coring. Observe Torque fluctuation decreases from 10.6kN to 4.3kN. Load and run sinker bar. Recover inner barrel. Sweep out 15m3 SWG, ongoing.
					Meanwhile, (22:00) Ibuki arrives Chikyu.

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	7,746.5	819.0	26.20	0	120	0	100	99.16	31.3								

BHA Record @24:00

5	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) 0 min	5 min

Mud Pumps : 14-P-220

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	
1	6"	65	325	19.0	6"DC 5"DP	
2	6"				182	103
4	6"	65	325			

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	259.0	62.2	85.2
Potable Water	m3	205.0	2.0	0.0
Drill Water	m3	1,105.0	5.0	0.0
Fuel	m3	4,988.7	40.4	0.0
Lube, Oil	Ltrs	119,500	100.0	0.0
Hel Fuel	Ltrs	0.0	0.0	0.0

Weather Information

Time	Weather	Temp. (degC)		Barometer (hPa)	Wind			Wave			Current		Visibility (km)
		Air	SW		Speed (m/s)	Dir. (deg)	Gust (m/s)	Height (m)	Dir. (deg)	Period (s)	Speed(knt)	Dir. (deg)	
24:00	bc	22.0	24.3	1023.5	9.5	140	11.3	1.5	120	6.0	0.4	83	22.0

Today's Schedule: Cut SD-RCB core

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			172,000
Caustic soda			7,825
Lime			7,840
Flowzan			25

Mud volume

PHG (m3)	253
Kill mud (m3)	48
SWG (m3)	94
Pre-Mix (m3)	0

Marine Information @24:00

Heave (m)	0.2
Pitch (deg)	0.2
Roll (deg)	0.1
Vessel Heading (deg)	135
Riser Tension (kN)	-
V.D. Load (ton)	13421
Max Draught (m)	9.0
Thruster (kW)	600

Heli Information @24:00

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

Boat Information @24:00

	Status	Standby at Chikyu
Akatsuki (Supply boat)		
Ibuki (Guard boat)		Stanby at Chikyu

HSQE and other information

Incident	Last Incident	No. LTI
	11/14/19	

HUNS cards

	28

Remarks

(00:30) General Safety Meeting English version
(07:15, 13:30) General Safety Meeting Japanese version

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

Daily

Cumulative

Reported by : T.Miyoshi, T.Yokoyama

Approved by : I.Sawada