

Chikyu DAILY MORNING REPORT

Mission No. :CK24-01Exp. No. :405Report No. :39

Site NameJTCT-01AHole NameC0019JLat.37°56.3286'NLong.143°54.7764'ESeabed Depth :6,927.5 mBRTRT-MSL :28.5 mReport Date :15/Oct/2024

Depth : @24:007,419.5 mBRT492.0 mbsfProgress :57.5 mDrilling/Coring/Underreaming Hrs. :24.00 hrs

Depth : @06:007,438.5 mBRT511.0 mbsfLAST CASING :x mbsf(mBRT)

Summary of Operation on14-Oct :Cut SD-RCB #38 - #43

Present Operation @ 06:00 on15-Oct :Cut SD-RCB #44 - #45

mBRT: meter below rotary table

mbsf: meter below sea floor

Time Breakdown (00:00 - 24:00 on 14-Oct)

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
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	8:00	3:00	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 0.1-10.0kNm, WOB 20-60kN, Auto ROP 50m/hr Load and run sinker bar
8:00	9:15	1:15	CORE	7,381.0	Drop C0019J #40K(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 38min after dropping. Then sweep out SWG w/650gpm x 20.0MPa
9:15	12:30	3:15	CORE	7,390.5	Cut C0019J #40K(SDRCB) core from 7,381.0 - 7,390.5mBRT (453.5 - 463.0mbsf) 7,381.0 - 7,390.5mBRT (453.5 - 463.0mbsf), MP 400gpm x 7.5-8.0MPa, HPS 90rpm x 0.1-10.0kNm, WOB 20-50kN, Auto ROP 50m/hr Load and run sinker bar, then recover inner barrel.
12:30	13:30	1:00	CORE	7,390.5	Drop C0019J #41K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 5m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.7 to 4.5MPa w/275gpm 34min after dropping. Then sweep out SWG w/650gpm x 19.0MPa
13:30	16:00	2:30	CORE	7,400.5	Cut C0019J #41K(SDRCB) core from 7,390.5 - 7,400.5mBRT (463.0 - 473.0mbsf) 7,390.5 - 7,400.5mBRT (463.0 - 473.0mbsf), MP 400gpm x 7.3-8.0MPa, HPS 90rpm x 1.0-11.3kNm, WOB 10-80kN, Auto ROP 50m/hr Load and run sinker bar, then recover inner barrel.
16:00	17:00	1:00	CORE	7,400.5	Drop C0019J #42K(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 4.6MPa w/275gpm 35min after dropping. Then sweep out SWG w/650gpm x 19.7MPa
17:00	19:30	2:30	CORE	7,410.0	Cut C0019J #42K(SDRCB) core from 7,400.5 - 7,410.0mBRT (473.0 - 482.5mbsf) 7,400.5 - 7,410.0mBRT (473.0 - 482.5mbsf), MP 450gpm x 9.2-10.1MPa, HPS 90rpm x 0.5-9.6kNm, WOB 10-85kN, Auto ROP 50&40m/hr Reduce ROP setting to 40m/hr from 50m/hr at 7,404.5mBRT due to slightly high WOB. Load and run sinker bar, then recover inner barrel.
19:30	21:00	1:30	CORE	7,410.0	Drop C0019J #43K(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 44min after dropping. Increase pump rate and bottoms up w/650gpm x 19.9MPa.
21:00	23:30	2:30	CORE	7,419.5	Cut C0019J #43K(SDRCB) core from 7,410.0 - 7,419.5mBRT (482.5 - 492.0mbsf) 7,410.0 - 7,419.5mBRT (482.5 - 492.0mbsf), MP 450gpm x 9.2-9.9MPa, HPS 90rpm x 1.0-9.5kNm, WOB 5-50kN, Auto ROP 40m/hr Load and run sinker bar, then recover inner barrel.
23:30	24:00	0:30	CORE	7,419.5	Drop C0019J #44K(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 4.5MPa w/275gpm 34min after dropping.

Time Breakdown (00:00 - 06:00 on 15-Oct) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	0:30	0:30	CORE	7,419.5	Sweep out SWG w/650gpm x 19.6MPa.
0:30	4:00	3:30	CORE	7,429.0	Cut C0019J #44K(SDRCB) core from 7,419.5 - 7,429.0mBRT (492.5 - 501.5mbsf) 7,419.5 - 7,429.0mBRT (492.0 - 501.5mbsf), MP 400gpm x 7.5-8.4MPa, HPS 90rpm x 0.1-10.0kNm, WOB 20-70kN, Auto ROP: 50m/hr (7,419.5-7,421.5mBRT), 40m/hr (7,421.5-7,423.5mBRT), 30m/hr (7,423.5-7,429.0mBRT) Load and run sinker bar, then recover inner barrel.
4:00	5:00	1:00	CORE	7,429.0	Drop C0019J #45K(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 4.5MPa w/275gpm 40min after dropping. Then sweep out SWG w/650gpm x 19.6MPa
5:00	6:00	1:00	CORE	7,438.5	Cut C0019J #45K(SDRCB) core from 7,429.0 - 7,438.5mBRT (501.5 - 511.0mbsf) 7,429.0 - 7,438.5mBRT (501.5 - 511.0mbsf), MP 400gpm x 7.6-8.4MPa, HPS 90rpm x 0.1-10.0kNm, WOB 10-50kN, 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					
							From	To			Min.	Max.	Min.	Max.			Inner	Outer	Dull	Loc.	B	G
3	8.5	NOV	CJPC713-A1	-	F312253	7 x 16	6,927.5	7,419.5	492.0	15.28	0	120	0	100	43.55	32.2						

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 V-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																			

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"	65	250	20.0	6"DC 5"DP
2	6"				182
4	6"	65	400		103

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	338.4	64.8	75.2
Potable Water	m3	229.9	3.6	0.0
Drill Water	m3	1,312.0	0.0	0.0
Fuel	m3	5,324.0	40.7	0.0
Lube_Oil	Ltrs	122,400	0.0	0.0
Heli 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	20.0	25.1	1026.1	7.0	95	8.2	1.7	60	5.9	0.5	64	22.0

Today's Schedule: Cut SD-RCB core

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		250	8,375
Lime		240	8,230
Flowzan			25

Mud volume

PHG (m3)	311
Kill mud (m3)	50
SWG (m3)	122
Pre-Mix (m3)	61

Marine Information @24:00

Heave (m)	0.4
Pitch (deg)	0.3
Roll (deg)	0.1
Vessel Heading (deg)	075
Riser Tension (kN)	-
V.D. Load (ton)	14087
Max Draught (m)	9.0
Thruster (kW)	700

Helicopter Information @24:00

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

Boat Information @24:00

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

HSQE and other information

Incident	Last Incident	No. LTI
	11/14/19	

HUNS cards

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Remarks

10:00 Emergency Drill for Damage control and Abandon ship

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

Daily	
Cumulative	

Reported by : T.Yokoyama, Y.Oishi

Approved by : T.Saruhashi