Chikyu DAILY MORNING REPORT

Mission No. : CK24-01 **Exp. No. :** 405 **Report No. :** 37

Site Name JTCT-01A **Hole Name** C0019J **Lat.** 37°56.3286'N **Long.** 143°54.7764'E Seabed Depth : 6,927.5 mBRT RT-MSL : 28.5 m **Report Date :** 13/Oct/2024

Depth : @24:00 7,314.5 mBRT 387.0 mbsf Progress : 57.5 m Drilling/Coring/Underreaming Hrs. : 24.00 hrs

Depth : @06:00 7,324.0 mBRT 396.5 mbsf LAST CASING : x mbsf(mBRT)

Summary of Operation on 12-Oct : Cut SD-RCB #27 - #32 -

Present Operation @ 06:00 on 13-Oct : Cut SD-RCB #33

Time Breakdown (00:00 - 24:00 on 12-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	7,257.0	Recover inner barrel
1:15	2:45	1:30	CORE	7,257.0	Drop C0019J #27K(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 2.7 to 4.7MPa w/275gpm 51min after dropping
					Continue to pump SWG w/600gpm x 17.5MPa until before sweep coming out from bit. Then bottoms up w/400gpm x 8.2MPa.
2:45	5:45	3:00	CORE	7,266.5	Cut C0019J #27K(SDRCB) core from 7,257.0 - 7,266.5mBRT (329.5 - 339.0mbsf)
					7,257.0 - 7,266.5mBRT (329.5 - 339.0mbsf), MP 300gpm x 4.6-5.9MPa, HPS 80rpm x 1.0-8.0kNm, WOB 10-70kN, Auto ROP 50m/hr
					Load and run sinker bar. Install wiper for removing coreline grease. Recover inner barrel.
5:45	6:45	1:00	CORE	7,266.5	Drop C0019J #28K(SDRCB) inner barrel.
					Unload sinker bar after drop inner barrel. Confirm inner barrel landing by increasing pressure from 2.6 to 4.7MPa w/275gpm 36min after dropping
					Then bottoms up w/400gpm x 8.6MPa.
6:45	10:00	3:15	CORE	7,276.0	Cut C0019J #28K(SDRCB) core from 7,266.5 - 7,276.0mBRT (339.0 - 348.5mbsf)
					7,266.5 - 7,276.0mBRT (339.0 - 348.5mbsf), MP 400gpm x 7.9-8.4MPa, HPS 90rpm x 1.0-9.0kNm, WOB 20-120kN, Auto ROP 55m/hr
					Load and run sinker bar. Install wiper for removing coreline grease. Recover inner barrel.
10:00	11:00	1:00	CORE	7,276.0	Drop C0019J #29K(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 4.4MPa w/275gpm 36min after dropping.
					Then sweep out SWG w/650gpm x 20.0MPa
11:00	14:15	3:15	CORE	7,286.0	Cut C0019J #29K(SDRCB) core from 7,276.0 - 7,286.0mBRT (348.5 - 358.5mbsf)
					7,276.0 - 7,286.0mBRT (348.5 - 358.5mbsf), MP 400gpm x 7.5-9.6MPa, HPS 90 - 100rpm x 1.0-10.0kNm, WOB 20-90kN, Auto ROP 55m/hr
					Load and run sinker bar, then recover inner barrel.
14:15	15:00	0:45	CORE	7,286.0	Drop C0019J #30K(SDRCB) inner barrel.
					Unload sinker bar after drop inner barrel. Confirm inner barrel landing by increasing pressure from 2.5 to 4.6MPa w/275gpm 34min after dropping
					Then bottoms up w/650gpm x 20.5MPa.
15:00	17:45	2:45	CORE	7,295.5	Cut C0019J #30K(SDRCB) core from 7,286.0 - 7,295.5mBRT (358.5 - 368.0mbsf)
					7,286.0 - 7,295.5mBRT (358.5 - 368.0mbsf), MP 400gpm x 7.2-8.6MPa, HPS 90rpm x 0.1-10.5kNm, WOB 10-85kN, Auto ROP 55m/hr
					Load and run sinker bar. Install wiper for removing coreline grease. Recover inner barrel.
17:45	19:15	1:30	CORE	7,295.5	Drop C0019J #31K(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 20.6MPa.
19:15	22:00	2:45	CORE	7,305.0	Cut C0019J #31K(SDRCB) core from 7,295.5 - 7,305.0mBRT (368.0 - 377.5mbsf)
					7,295.5 - 7,305.0mBRT (368.0 - 377.5mbsf), MP 300gpm x 4.2-5.4MPa, HPS 90rpm x 1.0-11.0kNm, WOB 10-70kN, Auto ROP 55m/hr
					Load and run sinker bar. Recover inner barrel.
22:00	22:45	0:45	CORE	7,305.0	Drop C0019J #32K(SDRCB) inner barrel.
					Unload sinker bar after drop inner barrel. Confirm inner barrel landing by increasing pressure from 2.7 to 4.6MPa w/275gpm 34min after dropping
					Then bottoms up w/650gpm x 20.0MPa.
22:45	24:00	1:15	CORE	7,314.5	Cut C0019J #32K(SDRCB) core from 7,305.0 - 7,314.5mBRT (377.5 - 387.0mbsf)
					7,305.0 - 7,314.5mBRT (377.5 - 387.0mbsf), MP 350gpm x 6.0-13.5MPa, HPS 90rpm x 1.0-13.9kNm, WOB 20-120kN, Auto ROP 55m/hr
					Observe abnormal pressure increase while coring (7.0 ->13.5MPa at 7,008 - 7,010mBRT).
					Load and run sinker bar, ongoing.
					(12:00-19:00) Repair CT Scan
					Replace Axial Encorder and 2 x Circuit board in CT scan, and calibrate CT scan.
					Check function with SD-RCB cores and confirm the function well.
					(13:35) Ibuki arrives at C0019 site and standby at Chikyu.
					(17:35) Akatsuki start the current survey toward North-West from C0019J hole.

Time Breakdown (00:00 - 06:00 on 13-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	7,314.5	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	6:00	2:45	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, on going.

Bit Record @24:00

Bit No.	Size (in)	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mBRT) From	Depth (mBRT) To	Meter-age	Hrs.	WOB (kN) Min.	WOB (kN) Max.	rpm Min.	rpm Max.	Total Rev. (krev)	ROP (m/hr)	Dull Condition Inner	Outer	Dull	Loc.	B	G	O.D.	RP
3	8.5	NOV	CJPC713-A1	-	F312253	7 x 16	6,927.5	7,314.5	387.0	11.85	0	120	0	100	31.13	32.7								

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 (3stds) x XO#2 x 5"DP x 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

Hook Wt. (knt) @24:00 7,300.0 mBRT

Hook Load	3,736
BHA	140
Below Jar	
HPS & Traveling block	680
CSG/TBG	

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	FIT 20/40 (mm) 5min

Jar Rotating Time @24:00 S/N:

Today		Total	hrs

Motor Pumping time @24:00 S/N:

Today		Total	hrs

Mud Pumps : 14-P-220 5.00 gallon/stroke @97%

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min) 6"DC	Ann. Vel. (m/min) 5"DP
1	6"	50	250	20.6	182	103
2	6"					
4	6"	80	400			

Personnel @24:00

MarE3	6
MQJ Crew	100
MWJ	20
Scientist	25
Outreach	2
JAMSTEC PR	1
Sub-contractor	
WL	
Expro	
NuStar	3
GE	2
Total	159

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

Heli Information @24:00

Flt. No.	Time Arrived	Time Departed	Passenger Are.	Passenger Dept.
1	09:34	09:49	14	14
2	13:55	14:08	14	13

Boat Information @24:00

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

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	307.4	57.8	79.7
Potable Water	m3	237.0	2.0	0.0
Drill Water	m3	1,312.0	10.0	0.0
Fuel	m3	5,404.3	40.9	0.0
Lube, Oil	Ltrs	123,900	0.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0

Mud volume

PHG (m3)	347
Kill mud (m3)	50
SWG (m3)	107
Pre-Mix (m3)	35

Marine Information @24:00

Heave (m)	1.2
Pitch (deg)	1.0
Roll (deg)	0.2
Vessel Heading (deg)	045
Riser Tension (kN)	-
V.D. Load (ton)	14136
Max Draught (m)	9.0
Thruster (kW)	600

HSQE and other information

Incident	Last Incident	No. LTI
LTI	11/14/19	
HUNS cards	34	

Remarks

Weather Information

Time	Weather	Temp. (degC) Air	Temp. (degC) SW	Barometer (hPa)	Wind Speed (m/s)	Wind Dir. (deg)	Wind Gust (m/s)	Wave Height (m)	Wave Dir. (deg)	Wave Period (s)	Current Speed(knt)	Current Dir. (deg)	Visibility (km)
24:00	bc	19.0	26.9	1023.5	2.6	68	3.6	5.8	20	9.9	0.6	102	22.0

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