Chikyu DAILY MORNING REPORT

Mission No. : CK24-01 **Exp. No. :** 405 **Report No. :** 34

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 :** 10/Oct/2024

Depth : @24:00 7,209.0 mBRT 281.5 mbsf Progress : 47.5 m Drilling/Coring/Underreaming Hrs. : 22.00 hrs

Depth : @06:00 7,209.0 mBRT 281.5 mbsf LAST CASING : x mbsf(mBRT)

Summary of Operation on 9-Oct : Cut SD-RCB core, WOW

Present Operation @ 06:00 on 10-Oct : WOW

Time Breakdown (00:00 - 24:00 on 9-Oct)

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

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	4:00	4:00	CORE	7,171.0	Cut C0019J #17K(SDRCB) core from 7,161.5 - 7,171.0mBRT (234.0 - 243.5mbsf)
					7,161.5 - 7,171.0mBRT (234.0 - 243.5mbsf), MP 300gpm x 4.6-8.8MPa, HPS 80rpm x 0.9-9.0kNm, WOB 30-100kN, Auto ROP 80m/hr
					Observe pressure increasing gradually to 8.8MPa, after pass 7,169.0mBRT pressure drop to 7.4MPa.
					Load and run sinker bar, then recover inner barrel.
4:00	5:00	1:00	CORE	7,171.0	Drop C0019J #18K(SDRCB) inner barrel.
					Unload sinker bar after drop inner barrel.
					Confirm inner barrel landing by increasing pressure from 3.5 to 5.1MPa w/275gpm 36min after dropping. Observe pressure slightly higher than before coring.
					Check pressure with 150/200/250/300/350/400/450/500/550/600gpm x 1.9/2.7/3.9/5.3/7.0/8.7/10.9/13.5/16.5/19.0MPa. Confirm pressure back to normal.
					Then bottoms up w/400gpm x 8.9MPa
5:00	6:00	1:00	CORE	7,180.5	Cut C0019J #18K(SDRCB) core from 7,171.0 - 7,180.5mBRT (243.5 - 253.0mbsf)
					7,171.0 - 7,180.5mBRT (243.5 - 253.0mbsf), MP 300gpm x 4.9-5.5MPa, HPS 80rpm x 0.9-9.0kNm, WOB 30-70kN, Auto ROP 70m/hr
					Load and run sinker bar, then recover inner barrel.
6:00	8:15	2:15	CORE	7,180.5	Drop C0019J #19K(SDRCB) inner barrel.
					Unload sinker bar after drop inner barrel.
					Confirm inner barrel landing by increasing pressure from 2.6 to 4.6MPa w/275gpm 56min after dropping.
					Check pressure w/600gpm x 17.5MPa. Then bottoms up w/400gpm x 8.3MPa
8:15	13:30	5:15	CORE	7,190.0	Cut C0019J #19K(SDRCB) core from 7,180.5 - 7,190.0mBRT (253.0 - 262.5mbsf)
					7,180.5 - 7,190.0mBRT (253.0 - 262.5mbsf), MP 300gpm x 4.7-5.1MPa, HPS 80rpm x 0.9-10.0kNm, WOB 30-80kN, Auto ROP 70m/hr
					Load and run sinker bar, then recover inner barrel.
13:30	14:15	0:45	CORE	7,190.0	Drop C0019J #20K(SDRCB) inner barrel.
					Confirm inner barrel landing by increasing pressure from 2.5 to 4.3MPa w/275gpm 33min after dropping.
					Bottoms up w/400gpm x 8.2MPa, Check pressure w/600gpm x 17.7MPa.
14:15	17:00	2:45	CORE	7,199.5	Cut C0019J #20K(SDRCB) core from 7,190.0 - 7,199.5mBRT (262.5 - 272.0mbsf)
					7,190.0 - 7,199.5mBRT (262.5 - 272.0mbsf), MP 300gpm x 4.5-5.5MPa, HPS 80rpm x 0.9-10.0kNm, WOB 50-100kN, Auto ROP 70m/hr
					Load and run sinker bar, then recover inner barrel.
17:00	18:30	1:30	CORE	7,199.5	Drop C0019J #21K(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/600gpm x 18.0MPa
18:30	22:00	3:30	CORE	7,209.0	Cut C0019J #21K(SDRCB) core from 7,199.5 - 7,209.0mBRT (272.0 - 281.5mbsf)
					7,199.5 - 7,209.0mBRT (272.0 - 281.5mbsf), MP 300gpm x 4.6-5.5MPa, HPS 80rpm x 0.9-10.0kNm, WOB 40-80kN, Auto ROP 60m/hr
					Load and run sinker bar, then recover inner barrel. Unload sinker bar.
					Then, sweep out 10m3 of SWG w/700gpm x 14.5MPa.
					Observe pressure increase at bottom. Probably magnus effect and bit depth difference due to pipe connection.
22:00	23:00	1:00	TRIP	7,209.0	POOH to 6,963.5mBRT(36mbsf)
					Observe no excessive drag while POOH.
23:00	24:00	1:00	WAIT	7,209.0	WOW, due to rough weather.
					Meanwhile,
					(08:30) Akatsuki departs to Shiogama port. (ETA@Shiogama: 10/09 22:30)
					(16:30-24:00) Advisory status due to Vessel position deviation over 5m from wellce
					(19:40-24:00) Advisory status due to the wind speed over 18m/s
					(23:30) Set RGR in 0.6m position for WOW

Time	Wind Dir.	Wind m/s	Gust m/s	Wave m	Wave sec.	Current knot	Current dir.
20:00	47	18.5	19.9	3.7	7.4	1.5	66
21:00	49	17.5	18.9	4.0	7.2	1.4	65
22:00	49	17.5	18.9	4.0	7.9	1.3	67
23:00	49	18.4	19.9	4.0	7.8	1.4	71
24:00	48	20.6	24.8	3.8	8.00	1.2	64

Time Breakdown (00:00 - 06:00 on 10-Oct) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	6:00	6:00	WAIT	7,209.0	Continue to WOW.
					Meanwhile
					Rig services
					Maintenance coring tools
					(00:00-06:00) Advisory status due to Vessel position deviation over 5m from wellcenter
					(00:00-06:00) Advisory status due to the wind speed over 18m/s

Time	Wind Dir.	Wind m/s	Gust m/s	Wave m	Wave sec.	Current knot	Current dir.
01:00	53	20.0	22.4	4.1	7.9	1.1	65
02:00	45	20.0	22.5	5.3	8.0	1.4	60
03:00	45	20.0	21.8	5.3	7.8	0.5	38
04:00	28	21.6	23.8	6.1	8.2	0.7	61
05:00	21	20.6	24.0	6.5	8.3	1.2	40
06:00	21	20.3	23.9	5.9	8.2	1.4	48

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	7,209.0	281.5	10.90	0	100	0	80	20.35	25.8								

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 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

Hook Wt. (knt) @24:00	6,962.0 mBRT
Hook Load	3,500
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"	70	350	14.4	196	111
2	6"					
4	6"	70	350			

Personnel @24:00

MarE3	6
MQJ Crew	100
MWJ	19
Scientist	26
Outreach	3
JAMSTEC PR	1
Sub-contractor	
WL	
Expro	
NuStar	3
Total	158

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				
2				

Boat Information @24:00

Akatsuki (Supply boat)	Status	Standby at Shiogama port
Ibuki (Guard boat)	Status	Standby at Shiogama port

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	237.7	59.1	82.1
Potable Water	m3	246.0	3.6	0.0
Drill Water	m3	1,358.0	12.0	0.0
Fuel	m3	5,542.0	43.1	0.0
Lube, Oil	Ltrs	123,900	0.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0

Mud volume

PHG (m3)	377
Kill mud (m3)	50
SWG (m3)	84
Pre-Mix (m3)	65

Marine Information @24:00

Heave (m)	0.7
Pitch (deg)	0.8
Roll (deg)	0.3
Vessel Heading (deg)	053
Riser Tension (kN)	-
V.D. Load (ton)	14208
Max Draught (m)	9.0
Thruster (kW)	2000

HSQE and other information

Incident	Last Incident	No. LTI
LTI	11/14/19	
HUNS cards	33	

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	o	20.0	26.7	1009.3	20.6	48	24.8	3.8	60	8.0	1.2	64	22.0

Today's Schedule: WOW, Resume to cut SD-RCB core

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

Daily	
Cumulative	

Reported by : Y.Oishi, N.Sakurai
Approved by : T.Saruhashi