Chikyu DAILY MORNING REPORT

Mission No. : CK24-01 **Exp. No. :** 405 **Report No. :** 21

Site Name JTCT-02A **Hole Name** C0026A **Lat.** 37°55.6020'N **Long.** 143°04.1280'E Seabed Depth : 6,957.0 mBRT RT-MSL : 28.5 m **Report Date :** 27/Sep/2024

Depth : @24:00 7,340.0 mBRT 383.0 mbsf Progress : 101.0 m Drilling/Coring/Underreaming Hrs. : 24.00 hrs

Depth : @06:00 7,360.5 mBRT 403.5 mbsf LAST CASING : x mbsf(mBRT)

Summary of Operation on 26-Sep : Continue to 8-1/2"LWD hole (C0026A) to 7,340.0mBRT.

Present Operation @ 06:00 on 27-Sep : Continue to 8-1/2"LWD hole (C0026A) to 7,360.5mBRT.

Time Breakdown (00:00 - 24:00 on 26-Sep)

mBRT: meter below rotary table

mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	24:00	0:00	DRL	7,340.0	Continue to drill 8-1/2"LWD hole (C0026A) to 7,340mBRT (344.0mbsf).
					Sweep 7m3 of SWG every stand.

Depth, mBRT From	Depth, mBRT To	Depth, mbsf From	Depth, mbsf To	WOB, kN	rpm	Torque	Pump, gpm	Pressure, MPa	ROP set, m/hr	Remarks
7,239.0	7,242.5	282.0	285.5	0-40	60	1.0-14.0	549	17.6 - 18.6	10	Decrease ROP and increase rpm for reducing stick slips.
7,242.5	7,245.5	285.5	288.5	0-40	65	0.7-14.2	550	17.8 - 18.7	10	Survey fails due to signal failure by high heave motion.
7,245.5	7,257.5	288.5	300.5	0-40	70	0.7-12.9	550	17.3 - 18.5	8	Decrease ROP and increase rpm for reducing stick slips.
										Shift RGR to 0.75m offset due to ship heading change.
7,257.5	7,271.0	300.5	314.0	20-60	75	1.0-11.6	550	17.6 - 18.3	8	Increase rpm for reducing stick slips.
7,271.0	7,295.0	314.0	338.0	20-60	80	1.0-14.6	550	18.0 - 18.6	8	
7,295.0	7,301.0	338.0	344.0	20-60	80	1.0-14.6	570	19.0 - 20.3	8	LWD signal loss due to high heave, PU and wait until recovery.
										Drilling by auto ROP becomes hard to control WOB
										Increase pump rate to 570gpm to prevent LWD signal loss
7,301.0	7,340.0	344.0	383.0	20-90	80	1.0-14.6	590	19.0 - 20.3	6-8	Increase pump rate to 590gpm to prevent LWD signal loss

MWD data

mBRT	inclination (deg.)	azimuth (deg).
7,004.0	0.2	266
7,039.8	0.3	305
7079.8	0.1	269
7115.0	0.1	356
7284.7	0.4	163

Time	Wind Dir.	Wind m/s	Gust m/s	Wave m	Wave sec.	Current knot	Current dir.
02:00	127	12.7	15.7	3.8	7.5	1.6	44
04:00	95	13.7	14.9	3.4	7.5	1.5	56
06:00	91	9.2	9.6	3.7	7.7	1.5	55
08:00	20	13.6	14.9	4.2	7.7	1.1	77
10:00	68	19.0	21.0	4.8	7.6	1.0	70
12:00	72	21.4	22.3	4.5	7.4	1.0	68
	74	22.9	23.7	4.2	8.1	0.8	66
14:00	99	13.6	15.0	5.1	7.8	1.0	42
16:00	74	8.7	10.1	4.3	7.8	0.8	56
18:00	64	6.4	7.4	5.3	7.5	1.0	53
20:00	100	5.4	6.5	4	7.5	1.3	56
22:00	120	1.9	2.8	3.4	7.8	1.3	66
24:00	86	2.0	2.8	3.4	7.6	1.3	73

Meanwhile,
Space out SD-RCB inner barrel (Normal x 2ea; 6mm, Hi flow x 1ea; 6mm).

(09:15-12:45) Advisory status due to over 18m/s wind speed.

Time Breakdown (00:00 - 06:00 on 27-Sep) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	6:00	6:00	DRL	7,360.5	Continue to drill 8-1/2"LWD hole (C0026A) to 7,360.5mBRT (403.5mbsf).
					Sweep 7m3 of SWG every stand.

Depth, mBRT From	Depth, mBRT To	Depth, mbsf From	Depth, mbsf To	WOB, kN	rpm	Torque	Pump, gpm	Pressure, MPa	ROP set, m/hr	Remarks
7,340.0	7,345.0	383.0	388.0	40-90	70	0.3-14.5	590	20.5 - 21.0	<6	Increase rpm to reduce stick slips
7,345.0	7,351.0	388.0	394.0	40-90	75	0.4-13.0	590	20.5 - 21.5	<6	Increase rpm to reduce stick slips
7,351.0	7,357.5	394.0	400.5	40-100	80	1.0-11.6	590	20.7 - 21.6	<6	Increase rpm to reduce stick slips
										Observe high shock level.
7,357.5	7,360.5	400.5	403.5	40-100	70	1.1-10.8	590	20.8 - 21.7	<6	Decrease rpm to minimize shock level.

Meanwhile,
Space out SD-RCB center bit and Deplugger
Lay out 6-1/2"Hydraulic-Mechanical Jars.

(05:00) Akatsuki arrive at Chikyu
(05:45-06:00) Advisory status due to APRS issue by noise from Akatsuki.

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
2	8.5	Smith	BXZ716M	-	QG1124	7 x 12	6,957.0	7,340.0	383.0	34.41	0	100	0	70	438.01	11.1								

BHA Record @24:00

4	8-1/2"LWD	8-1/2" Bit x 6-1/2" Mud motor x MicroScope x TeleScope x SonicScope x 6-3/4" drilling DC(1jt) x Float sub w/float x Filter sub x 6-3/4" drilling DC(3stds) x 6-1/2"H-M Jar x 6-3/4" drilling DC(1std) x XO#1 x 5" DP V-150 (24stds) x XO#2 x 5" DP S-140 (66stds) x 5-1/2" DP S-140 (22stds) x XO#3 x 5-1/2" DP S-150(26stds) x XO#4 x 5-1/2" DP UD-165 (30stds) x XO#5 x 6-5/8" DP Z-140 (7stds) x 6-

Hook Wt. (knt) @24:00 7,340.0 mBRT

Hook Load	3,797
BHA	190
Below Jar	140
HPS & Traveling block	680
CSG/TBG	

Jar Rotating Time @24:00 S/N: 474-69575

Today	20.73	Total	82.83	hrs

Motor Pumping time @24:00 S/N: 624094

Today	20.73	Total	30.53	hrs

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

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"		590	22.0	151	95
2	6"	65	325			
4	6"	53	265			

Personnel @24:00

MarE3	4
MQJ Crew	97
MWJ	11
Scientist	26
LSS	3
Outreach	4
JAMSTEC	
Sub-contractor	
WL	
SLB-LWD	4
Expro	
NuStar	3
Total	152

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

Item	Received	Used	Stock
Barite			76,000
Tel-Gel			208,000
Caustic soda			9,025
Lime			8,960
Flowzan			25

Heli Information @24:00

Flt. No.	Time Arrived	Time Departed	Passenger Are.	Passenger Dept.
1	09:56	10:10	14	14
2	14:04	14:15	1	1

Boat Information @24:00

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

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	336.5	58.9	66.6
Potable Water	m3	287.0	2.0	0.0
Drill Water	m3	1,580.0	13.0	0.0
Fuel	m3	6,148.8	50.6	0.0
Lube, Oil	Ltrs	129,400	0.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0

Mud volume

PHG (m3)	261
Kill mud (m3)	60
SWG (m3)	118
Pre-Mix (m3)	35

Marine Information @24:00

Heave (m)	1.3
Pitch (deg)	0.7
Roll (deg)	0.2
Vessel Heading (deg)	110
Riser Tension (kN)	-
V.D. Load (ton)	15050
Max Draught (m)	9.0
Thruster (kW)	400

HSQE and other information

Incident	Last Incident	No. LTI
LTI	11/14/19	
HUNS cards	30	

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	24.0	27.3	1014.2	2.0	86	2.8	3.4	90	7.6	1.3	73	22.0

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

Daily	
Cumulative	

Reported by : T. Miyoshi, T.Yokoyama

Approved by : I. Sawada

Today's Schedule: Continue to drill 8-1/2"LWD hole to 7,437.0mBRT (480.0mbsf).