

Chikyu DAILY MORNING REPORT

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

Report No. : 77

Site Name	JTCT-01A	Hole Name	C0019N	Lat.	37°56.3303'N	Long.	143°54.7712'E	Seabed Depth :	6,924.0	mBRT	RT-MSL :	28.5	m	Report Date :	22/Nov/2024
Depth : @24:00	7,825.5	mBRT	901.5	mbsf	Progress :	11.0	m	Drilling/Coring/Underreaming Hrs. :	11.25	hrs					
Depth : @06:00	7,825.5	mBRT	901.5	mbsf	LAST CASING :		x	mbsf(mBRT)					
Summary of Operation on 21-Nov : Continue to drill down to 7,825.0mBRT. Recover center bit. Cut SD-RCB core. POOH.															
Present Operation @ 06:00 on 22-Nov : Continue POOH, Drop Free Fall Funnel. Run UWTV.															
Time Breakdown (00:00 - 24:00 on 21-Nov)															
mBRT: meter below rotary table															
mbsf: meter below sea floor															

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

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	9:15	9:15	DRL	7,825.0	Continue to drill down from 7,814.5mBRT to 7,825.0mBRT (890.5-901.0mbsf). Continue to ream up and down 2times with 60rpm x 500gpm around 7,806-7,808mBRT but observe torque spike continuously. Reciprocate at 7,806-7,808mBRT and observe drag (up:30kN / down: 70kN). When lower to 7,811.0mBRT, observe torque spike again. Stay bit at 7,811.0mBRT a few minute, and torque spike is gone. Pick up to 7,806.0mBRT and stay bit at the same depth. Try to eliminate the torque spkie and observe torque spike is gone. When run back to 7,814.5mBRT, set drilling parameter and eliminate torque spike at 7,812.5mBRT by the same way. Resume to drill down to 7,836.0mBRT. Pump 10m3 SWG (F.vis: 96s).
					Depth (mBRT (mbsf) MP (gpm x MPa) Torque (rpm x kNm) WOB (kN) Ave. ROP (m/hr) Estimated Tight spot
					7,814.5 - 7,822.5 (890.5 - 898.5) 500 x 10.2-10.8 90 x 0.1-12.0 40-100 4 7,806.0 - 7,808.5mBRT
					7,822.5 - 7,825.0 (898.5 - 901.0) 250-500 x 10.1-11.2 60-100 x 0.1-12 60-105 0.4 7,811.0 - 7,812.5mBRT
					Attempt to drill down from 7,822.5mBRT with various drilling parameter such as low & high rotation speed and low pump rate. Unable to recover ROP, and decide to change plan of starting coring from 7,822.5mBRT to expect higher ROP by reducing cutting area of core bit.
9:15	10:30	1:15	C&C	7,825.0	Circulate and bottoms up with 10m3 SWG.
10:30	13:00	2:30	CORE	7,825.0	Recover center bit. Rack back and isolate stand because the drillpipe fatigue which contacts at the same point are considered due to long rotating time at rotary. Observe water level is at rotary when break out connection. Load and run sinker bar. Recovered center bit is completely worn out and plugged all 3 ea nozzle.
13:00	15:30	2:30	C&C	7,825.0	Circulate and bottoms up with 10m3 SWG.
15:30	16:45	1:15	CORE	7,825.0	Drop C0019J #81K(SDRCB) inner barrel. Pump to chase and confirm inner barrel landing by increasing pressure from 3.1 to 4.9MPa w/275gpm 35min after dropping. Increase pump rate to 650gpm x 19.7MPa and sweep out 10m3 SWG.
16:45	18:45	2:00	CORE	7,825.5	Cut C0019N #1K(SDRCB) core from 7,825.0 - 7,825.5mBRT (901.0 - 901.5mbsf) 7,825.0 - 7,825.5mBRT (901.0 - 901.5mbsf), MP 250gpm x 3.3-3.5MPa, HPS 100-110rpm x 0.1-10.2kNm, WOB 40-100kN Observe no progress from 7,825.34mBRT for about 1.5hour. Suspect bit to be worn out and decide to POOH.
18:45	22:00	3:15	CORE	7,825.5	Recover inner barrel by coreline winch. Observe no core and junk inside the core liner.
22:00	24:00	2:00	C&C	7,825.5	POOH to 7,678.5mBRT, ongoing. Spot 30m3 of SWG before POOH.
					(03:10) Akatsuki arrives at location. (03:40-04:55) Advisory status due to cargo work. APRS not available by abnormal noise from Akatsuki.



From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	2:30	2:30	TRIP	7,825.5	Continue POOH to 7,024.0mBRT (100mbsf).
2:30	4:30	2:00	OTHER	7,825.5	Drop Free Fall Funnel. (02:30-03:30) Open RGR door and skid BOP cart to AFT. Skid working cart to well center. (03:30-04:30) Assemble Free Fall Funnel along drill string. Pick up and locate halves of Free Fall Funnel at STBD and PORT side on wellhead support plate with timber. Bolt on Free Fall Funnel by impact wrench using stubs and a ratchet belt, and pick up the funnel and bolt on casings below the funnel. Set up releaser and rope. Install 3ea x buoy (7,000mWD rated). * Attach the reflector tape to each buoy and the funnel. (04:30) Drop Free Fall Funnel. Pick up Free Fall Funnel and skid working cart to FWD. Lower funnel to the sea level. Release funnel by pulling the rope.
4:30	6:00	1:30	UWTV	7,825.5	Run UWTV, ongoing. Pick up UWTV onto working cart. Install UWTV along drill string. Run UWTV to 100mMSL. (06:00) Ibuki leave the site.

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
7	8.5	NOV	CJPC713S	-	312252	7 x 16	6,924.0	7,825.5	901.5	40.30	0	105	0	110	160.36	22.4								

BHA Record @24:00

9	SD-RCB	8-1/2"Core bit x Float valve sub x Near bit sub (w/o stabilizer) x Outer core barrel x Landing sub (w/o stabilizer) x Head sub x XO#1 x 6-3/4"Coring Collar(5std) 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 (27stds) x XO#5 x 5-1/2"DP UD-165 (30stds) x XO#6 x 6-5/8"DP Z-140 (7stds) x 6-5/8"DP UD-165
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Hook Wt. (knt) @24:00 7,678.5 mBRT

Hook Load	4,000
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	5min

Jar Rotating Time @24:00	S/N:
Today	Total
Motor Pumping time @24:00	S/N:
Today	Total

Mud Pumps : 14-P-220

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"	50	250	10.8	DC 5"DP
2	6"				
4	6"	50	250		140 79

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	221.7	65.5	41.2
Potable Water	m3	248.0	3.0	0.0
Drill Water	m3	850.0	10.0	0.0
Fuel	m3	3,731.6	40.6	0.0
Lube, Oil	Ltrs	107,100	0.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0

Personnel @24:00

MarE3	7
MJQ Crew	101
MWJ	19
Scientist	28
Outreach officer	2
Grapher	2
Sub-contractor	
OCC	
WL	
Expro	
NuStar	3
GE	
Total	162

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

Item	Received	Used	Stock
Barite			100,000
Tel-Gel			118,000
Caustic soda		250	4,775
Lime		240	4,960
Flowzan			25
Mud volume			
PHG (m3)	112		
Kill mud (m3)	46		
SWG(m3) 92sel	139		
SWG(m3) 58sel	20		
Pre-Mix (m3)	0		
Marine Information @24:00			
Heave (m)	0.6		
Pitch (deg)	0.4		
Roll (deg)	0.2		
Vessel Heading (deg)	000		
Riser Tension (kN)	-		
V.D. Load (ton)	11881		
Max Draught (m)	9.0		
Thruster (kW)	900		

Heli Information @24:00

Flt. No.	Time		Passenger	
	Arrived	Departed	Are.	Dept.
1	09:37	09:51	14	14
2	14:01	14:10	2	1

Boat Information @24:00

Akatsuki (Supply boat)	Status	Chikyu (Arrive at 03:10)
Ibuki (Guard boat)	Status	Chikyu

HSQE and other information

Incident	Last Incident	No. LTI
LTI	11/14/19	
HUNS cards	29	

Remarks

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

Daily	
Cumulative	
Reported by : T. Ikawa / T. Miyoshi / T.Yokoyama	
Approved by : I.Sawada	

Today's Schedule: Continue to run and Recover UWTV. POOH.