

Chikyu DAILY MORNING REPORT

Mission No. : CK24-01

Exp. No. : 405

Report No. : 53

Site Name		JTCT-01A		Hole Name		C0019K		Lat.		37°56.3461'N		Long.		143°54.8168'E		Seabed Depth :		6,904.0		mBRT		RT-MSL :		28.5 m		Report Date :		29/Oct/2024	
Depth :		@24:00		7,752.5		mBRT		848.5		mbsf		Progress :		9.5		m		Drilling/Coring/Underreaming Hrs. :		24.00		hrs							
Depth :		@06:00		7,755.5		mBRT		851.5		mbsf		LAST CASING :				x		mbsf(mBRT)							
Summary of Operation		on		28-Oct				Cut SD-RCB #8, #9, #10																					
Present Operation @ 06:00		on		29-Oct				Cut SD-RCB #11																					
Time Breakdown : 00:00 - 24:00		on		28-Oct																									

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

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

Time Breakdown (00:00 - 24:00 on 20-Oct)					Detail of Operation	
From	To	Hrs	Code	Depth(mBRT)		mbsf: meter below sea floor
0:00	1:30	1:30	CORE	7,743.0	Continue to recover inner barrel Layout single and connection. Sweep out 15m3 SWG w/650gpm x 13.3MPa.	
1:30	2:45	1:15	CORE	7,743.0	Drop C0019K #8K(SDRCB) inner barrel. Drop inner barrel. Pump 15m3 SWG. Pump to chase and confirm inner barrel landing by increasing pressure from 3.0 to 4.4MPa w/275gpm 33min after dropping. Increase pump rate to 650gpm x 19.3MPa and sweep out 15m3 SWG.	
2:45	6:15	3:30	CORE	7,746.5	Cut C0019K #8K(SDRCB) core from 7,743.0 - 7,746.5mBRT (839.0 - 842.5mbsf) 7,743.0 - 7,746.5mBRT (839.0 - 842.5mbsf), MP 450gpm x 9.0-9.8MPa, HPS 90rpm x 0.9-13.0kNm, WOB 0-100kN, Auto ROP 40m/hr Observe drilling break at 7,746.0mBRT and penetrate to 7,746.5mBRT (Original target depth: 7,746.0mBRT). Suspect due to heave (1m) or soft formation. Observe no pressure increases. Reduce HPS speed to 30rpm and stop pumping after reaching 7,732.5mBRT. Wait 3min, stop rotation and take 80kN WOB for plugging at shoe. Load and run sinker bar. Recover inner barrel. Sweep out 15m3 SWG w/650gpm x 13.2MPa.	
6:15	7:30	1:15	CORE	7,746.5	Drop C0019K #9K(SDRCB) inner barrel. Drop inner barrel. Pump 15m3 SWG. Pump to chase and confirm inner barrel landing by increasing pressure from 3.2 to 5.0MPa w/275gpm 33min after dropping. Increase pump rate to 650gpm x 19.7MPa and sweep out 15m3 SWG.	
7:30	11:00	3:30	CORE	7,749.5	Cut C0019K #9K(SDRCB) core from 7,746.5 - 7,749.5mBRT (842.5 - 845.5mbsf) 7,746.5 - 7,749.5mBRT (842.5 - 845.5mbsf), MP 450gpm x 9.0-9.5MPa, HPS 90rpm x 0.9-13.0kNm, WOB 0-65kN, Auto ROP 40m/hr Observe no pressure increases. Reduce HPS speed to 30rpm and stop pumping after reaching 7,749.5mBRT. Wait 3min, stop rotation and take 70kN WOB for plugging at shoe. Load and run sinker bar. Recover inner barrel. Sweep out 15m3 SWG w/650gpm x 13.2MPa.	
11:00	12:00	1:00	CORE	7,749.5	Drop C0019K #10K(SDRCB) inner barrel. Drop inner barrel. Pump 15m3 SWG. Pump to chase and confirm inner barrel landing by increasing pressure from 3.2 to 5.0MPa w/275gpm 33min after dropping. Increase pump rate to 650gpm x 19.7MPa and sweep out 15m3 SWG.	
12:00	15:30	3:30	CORE	7,752.5	Cut C0019K #10K(SDRCB) core from 7,749.5 - 7,752.5mBRT (845.5 - 848.5mbsf) 7,749.5 - 7,752.5mBRT (845.5 - 848.5mbsf), MP 450gpm x 9.0-9.6MPa, HPS 90rpm x 0.9-14.0kNm, WOB 0-55kN, Auto ROP 40m/hr Observe pressure increases to 10.2MPa from 9.6MPa at 7,752.3mBRT and stop coring at 7,752.5mBRT Reduce HPS speed to 30rpm and stop pumping after reaching 7,752.5mBRT. Wait 3min, stop rotation and take 20kN WOB for plugging at shoe. Load and run sinker bar. Recover inner barrel. Sweep out 15m3 SWG w/650gpm x 12.7MPa.	
15:30	16:45	1:15	CORE	7,752.5	Drop C0019K #11K(SDRCB) inner barrel. Drop inner barrel. Pump 15m3 SWG. Pump to chase and confirm inner barrel landing by increasing pressure from 3.3 to 5.8MPa w/275gpm 33min after dropping. Increase pump rate to 650gpm x 21.3MPa, observe pressure higher than before. Suspect Bit plugged by sticky brown mudstone Sweep out 15m3 SWG.	
16:45	19:15	2:30	CORE	7,752.5	Recover C0019K #11K(SDRCB) inner barrel. Observe no plugging in recovered inner barrel. Unload sinker bar. Check pressure w/ 200, 300, 400, 500, 600, 650gpm x 2.0, 3.4, 5.5, 7.9, 11.0, 12.6MPa	
19:15	24:00	4:45	CORE	7,752.5	Deplugger Drop Deplugger Pump to chase and confirm Deplugger landing by increasing pressure from 2.9 to 3.7MPa w/275gpm 31min after dropping. Check pressure(w/ Deplugger) w/ 200, 300, 400, 500, 600, 650, 700, 750, 800, 850, 900gpm x 2.1, 4.0, 6.4, 9.6, 13.3, 15.2, 17.7, 19.5, 22.3, 24.8, 28.0MPa Load and run sinker bar. Recover Deplugger Check pressure(w/o Deplugger) w/ 200, 300, 400, 500, 600, 650gpm x 2.0, 3.5, 5.5, 7.9, 11.0, 12.6MPa Sweep out 15m3 SWG w/650gpm x 13.2MPa, ongoing	

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	0:30	0:30	CORE	7,752.5	Continue to sweep out SWG Sweep out 15m3 SWG w/650gpm x 13.2MPa
0:30	1:45	1:15	CORE	7,752.5	Drop C0019K #11K(SDRCB) inner barrel. Drop inner barrel. Pump 15m3 SWG. Pump to chase and confirm inner barrel landing by increasing pressure from 3.5 to 5.1MPa w/275gpm 33min after dropping. Increase pump rate to 650gpm x 20.2MPa and sweep out 15m3 SWG.
1:45	5:45	4:00	CORE	7,755.5	Cut C0019K #11K(SDRCB) core from 7,752.5 - 7,755.5mBRT (848.5 - 851.5mbsf) 7,752.5 - 7,755.5mBRT (848.5 - 851.5mbsf), MP 450gpm x 9.0-11.2MPa, HPS 90rpm x 0.9-14.0kNm, WOB 0-185kN, Auto ROP 40m/hr Observe no pressure increases. Reduce HPS speed to 30rpm and stop pumping after reaching 7,755.5mBRT. Wait 3min, stop rotation and take 70kN WOB for plugging at shoe. Load and run sinker bar. Recover inner barrel. Sweep out 15m3 SWG w/650gpm x 13.0MPa.
5:45	6:00	0:15	CORE	7,746.5	Drop C0019K #11K(SDRCB) inner barrel. Drop inner barrel. Pump 15m3 SWG. Pump to chase, ongoing.

Bit Record @24:00

[illegible]

BHA Record @24:00

6	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 (5stds) 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

Hook Load	4,190
BHA	140
Below Jar	
HPS & Traveling block	680
CSG/TBG	

Mud Properties @24:00

[illegible]

Mud Pumps : 14-P-220

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	
1	6"	70	350	28.0	6"DC	5"DP
2	6"	40	200		252	142
4	6"	70	350			

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	221.0	66.0	0.0
Potable Water	m3	185.0	4.0	0.0
Drill Water	m3	914.0	181.1	88.1
Fuel	m3	4,733.7	44.9	0.0
Lube, Oil	Ltrs	118,900	300.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0

Personnel @24:00

MarE3	8
MQJ Crew	101
MWJ	19
Scientist	28
Outreach	
JAMSTEC PR	1
Sub-contractor	
Oceanengineering	3
WL	
Expro	
NuStar	3
GE	
Total	163

Mud Materials on Board @24:00hrs

Item	Received	Used	Stock
Barite			76,000
Tel-Gel		18,000	136,000
Caustic soda		250	6,025
Lime		240	6,160
Flowzan			25

Mud volume

PHG (m3)	304
Kill mud (m3)	48
SWG (m3)	108
Pre-Mix (m3)	31

Marine Information @24:00

Heave (m)	1.5
Pitch (deg)	0.5
Roll (deg)	0.3
Vessel Heading (deg)	350
Riser Tension (kN)	-
V.D. Load (ton)	12909
Max Draught (m)	9.0
Thruster (kW)	1600

Heli Information @24:00

Flt. No.	Time		Passenger	
	Arrived	Departed	Are.	Dept.
1	11:35	11:45	7	7
2				

Boat Information @24:00

Akatsuki (Supply boat)	Status	Standby at Chikyu
Ibuki (Guard boat)	Status	Current check at JTCT-02A

HSQE and other information

Incident	Last Incident	No. LTI
LTI	11/14/19	
HUNS cards	35	

Remarks

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

Daily	
Cumulative	

Reported by : N. Sakurai, T.Miyoshi

Approved by : I.Sawada