

Chikyu DAILY MORNING REPORT

Mission No. :CK24-01Exp. No. :405Report No. :40

Site NameJTCT-01AHole NameC0019JLat.37°56.3286'NLong.143°54.7764'ESeabed Depth :6,927.5 mBRTRT-MSL :28.5 mReport Date :16/Oct/2024

Depth : @24:007,476.5 mBRT549.0 mbsfProgress :57.0 mDrilling/Coring/Underreaming Hrs. :24.00 hrs

Depth : @06:007,486.0 mBRT558.5 mbsfLAST CASING :x mbsf(mBRT)

Summary of Operation on15-Oct :Cut SD-RCB #44 - #49

Present Operation @ 06:00 on16-Oct :Cut SD-RCB #50

mBRT: meter below rotary table

mbsf: meter below sea floor

Time Breakdown (00:00 - 24:00 on15-Oct)

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	0:30	0:30	CORE	7,419.5	Sweep out SWG w/650gpm x 19.6MPa.
0:30	4:00	3:30	CORE	7,429.0	Cut C0019J #44K(SDRCB) core from 7,419.5 - 7,429.0mBRT (492.5 - 501.5mbsf) 7,419.5 - 7,429.0mBRT (492.0 - 501.5mbsf), MP 400gpm x 7.5-8.4MPa, HPS 90rpm x 0.1-10.0kNm, WOB 20-70kN, Auto ROP: 50m/hr (7,419.5-7,421.5mBRT), 40m/hr (7,421.5-7,423.5mBRT), 30m/hr (7,423.5-7,429.0mBRT) Load and run sinker bar, then recover inner barrel.
4:00	5:00	1:00	CORE	7,429.0	Drop C0019J #45K(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 4.5MPa w/275gpm 40min after dropping. Then sweep out SWG w/650gpm x 19.6MPa
5:00	8:30	3:30	CORE	7,438.5	Cut C0019J #45K(SDRCB) core from 7,429.0 - 7,438.5mBRT (501.5 - 511.0mbsf) 7,429.0 - 7,438.5mBRT (501.5 - 511.0mbsf), MP 400gpm x 7.6-8.4MPa, HPS 90rpm x 0.1-10.0kNm, WOB 10-50kN, Auto ROP 50m/hr Load and run sinker bar, then recover inner barrel.
8:30	9:30	1:00	CORE	7,438.5	Drop C0019J #46K(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 4.2MPa w/275gpm 36min after dropping. Then sweep out SWG w/650gpm x 19.5MPa
9:30	13:00	3:30	CORE	7,448.0	Cut C0019J #46K(SDRCB) core from 7,438.5 - 7,448.0mBRT (511.0 - 520.5mbsf) 7,438.5 - 7,448.0mBRT (511.0 - 520.5mbsf), MP 450gpm x 8.8-10.0MPa, HPS 100rpm x 0.1-11.0kNm, WOB 0-50kN, Auto ROP 40m/hr Reduce ROP setting from 40m/hr to 30m/hr at 7,443.0mBRT due to slightly increasing pressure. Load and run sinker bar, then recover inner barrel.
13:00	14:30	1:30	CORE	7,448.0	Drop C0019J #47K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump SWG 5m3 then make drill pipe stand connection Inner barrel is already landed when start pumping with 275gpm x 4.3MPa. Increase pump rate and bottoms up w/650gpm x 20.1MPa.
14:30	17:00	2:30	CORE	7,457.5	Cut C0019J #47K(SDRCB) core from 7,448.0 - 7,457.5mBRT (520.5 - 530.0mbsf) 7,448.0 - 7,457.5mBRT (520.5 - 530.0mbsf), MP 450gpm x 9.1-9.5MPa, HPS 100rpm x 0.5-12.5kNm, WOB 10-65kN, Auto ROP 30m/hr Load and run sinker bar, then recover inner barrel.
17:00	18:15	1:15	CORE	7,457.5	Drop C0019J #48K(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 4.5MPa w/275gpm 34min after dropping. Then sweep out SWG w/650gpm x 19.9MPa
18:15	20:45	2:30	CORE	7,467.0	Cut C0019J #48K(SDRCB) core from 7,457.5 - 7,467.0mBRT (530.0 - 539.5mbsf) 7,457.5 - 7,467.0mBRT (530.0 - 539.5mbsf), MP 400gpm x 7.0-8.0MPa, HPS 90rpm x 0.5-11.1kNm, WOB 10-50kN, Auto ROP 40m/hr Load and run sinker bar, then recover inner barrel.
20:45	22:00	1:15	CORE	7,467.0	Drop C0019J #49K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel. Pump 5m3 of SWG w/275gpm. Confirm inner barrel landing by increasing pressure from 2.7 to 4.5MPa w/275gpm 34min after dropping. Then sweep out SWG w/650gpm x 19.9MPa
22:00	24:00	2:00	CORE	7,476.5	Cut C0019J #49K(SDRCB) core from 7,467.0 - 7,476.5mBRT (539.5 - 549.0mbsf) 7,467.0 - 7,476.5mBRT (539.5 - 549.0mbsf), MP 400gpm x 7.2-8.0MPa, HPS 90rpm x 0.5-12.0kNm, WOB 10-115kN, Auto ROP 40m/hr Load and run sinker bar, then recover inner barrel.
					(15:50 - 16:15) Advisory Status due to offloading work to Akatsuki. (19:10) Akatsuki sail to Shioyama Port. ETA 13:00 on 16 Oct. (19:17 - 19:47) Change ship heading for cold front passage (120deg → 240deg). Shift RGR to 0.4m offset position after the ship heading change.

Time Breakdown (00:00 - 06:00 on16-Oct) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	1:15	1:15	CORE	7,476.5	Recover inner barrel.
1:15	2:15	1:00	CORE	7,476.5	Drop C0019J #50K(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 4.2MPa w/275gpm 36min after dropping. Then sweep out SWG w/650gpm x 19.6MPa
2:15	5:45	3:30	CORE	7,486.0	Cut C0019J #50K(SDRCB) core from 7,476.5 - 7,486.0mBRT (549.0 - 558.5mbsf) 7,476.5 - 7,486.0mBRT (549.0 - 558.5mbsf), MP 400gpm x 7.2-8.2MPa, HPS 90rpm x 0.1-19.0kNm, WOB 10-70kN, Auto ROP 40m/hr Load and run sinker bar, then recover inner barrel.
5:45	6:00	0:15	CORE	7,486.0	Drop C0019J #51K(SDRCB) inner barrel. Unload sinker bar after drop inner barrel.

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		
3	8.5	NOV	CJPC713-A1	-	F312253	7 x 16	6,927.5	7,476.5	549.0	16.85	0	120	0	100	52.36	32.6										

BHA Record @24:00

No.	SDRCB	Core Description	Hook Wt. (knt) @24:00	
			7,452.0	mBRT
5		0-1/2" Core Bit x 1" Boat Valve Sub x Near Bit Sub w/0-1/2" Stabilizer x Outer Core Barrel x Landing Sub w/0-1/2" Stabilizer x Head Sub x XO#1 x 6-5/8" Coring Collar (3stds) x XO#2 x 5" DP (4stds) 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		

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		K+	n	K	LGS	FIT 20/40 (mm)	
																		In	Out					0 min	5min

Mud Pumps : 14-P-220

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"	65	250	20.1	6"DC 5"DP
2	6"				
4	6"	65	400		

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	314.8	63.9	40.3
Potable Water	m3	227.0	2.9	0.0
Drill Water	m3	1,306.0	6.0	0.0
Fuel	m3	5,283.9	40.1	0.0
Lube Oil	Ltrs	122,400	0.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0

Weather Information

Time	Weather	Temp. (degC)		Barometer (hPa)	Speed (m/s)	Wind (deg)		Height (m)	Wave (deg)		Period (s)	Current (deg)		Visibility (km)
		Air	SW			Dir.	Gust		Dir.	Height		Dir.	Speed	
24:00	o	23.0	25.4	1020.7	13.2	175	14.2	1.5	110	5.4	0.3	65	22.0	

Personnel @24:00

Name	Count
MarE3	5
MQJ Crew	100
MWJ	20
Scientist	25
Outreach	2
JAMSTEC PR	
Sub-contractor	
WL	
Expro	
NuStar	3
GE	
Total	155

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

Item	Received	Used	Stock
Barite			76,000
Tel-Gel			190,000
Caustic soda			8,375
Lime			8,230
Flowzan			25

Mud volume

Item	Count
PHG (m3)	311
Kill mud (m3)	48
SWG (m3)	92
Pre-Mix (m3)	61

Marine Information @24:00

Item	Count
Heave (m)	0.8
Pitch (deg)	0.3
Roll (deg)	0.2
Vessel Heading (deg)	220
Riser Tension (kN)	-
V.D. Load (ton)	13988
Max Draught (m)	9.0
Thruster (kW)	1300

Hel Information @24:00

Flt. No.	Time		Passenger	
	Arrived	Departed	Are.	Dept.
1	09:33	09:43	6	6
2				

Boat Information @24:00

Boat	Status	Remarks
Akatsuki (Supply boat)	On the way to Shioyama Port	
Ibuki (Guard boat)	Standby at Chikyu	

HSQE and other information

Incident	Last Incident	No. LTI
LTI	11/14/19	
HUNS cards	36	

Remarks

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

Category	Cost
Daily	
Cumulative	

Reported by : T.Yokoyama, Y.Oishi

Approved by : T.Saruhashi