Chikyu DAILY MORNING REPORT

Mission No. : CK12-02 **Exp. No. :** Exp 343 **Report No. :** 47

Site Name : JFAST3 **Hole Name :** C0019E **Lat.** 37°56.3343'N **Long.** 143°54.8084'E **Report Date :** 18/May/2012

Depth : @24:00 **7,614.0** mBRT **696.0** mbsf Progress : **49.5** m Seabed Depth : **6,918.00** mBRT RT-MSL : **28.5** m

Depth : @06:00 **7,623.0** mBRT **705.0** mbsf Drilling/Coring/Jetting Hrs. : **5.50** hrs LAST CASING : x mbsf

Summary of Operation on **17-May** : Cut RCB core #2/#3, Drill down with center bit, Cut RCB core #4

Present Operation to 06:00 on **18-May** : Retrieving RCB core #5

Time Breakdown (00:00 - 24:00 on **17-May**)

mBRT: meter below rotary table

mbsf: meter below sea floor

From	To	Hrs	Code	Detail of Operation
0:00	3:00	3:00	Core	Cut #2 RCB core from 7566m to 7573m(*7571m). 100-120spm x 9.2-13.0MPa.
				(0:45-3:00) Run CBRT with sinker bar by core line recover. No damage on inner barrel assembly.
				Meanwhile, Pump 180spm x 18.7MPa, HPS 20rpm.
3:00	6:30	3:30	Core	Cut #3 RCB core from 7571m to 7580.5m(*7578.5m). 80spm x 5.9-6.5Mpa, WOB 60-70kN, HPS 80-90RPM 0-10kNm.
6:30	8:00	1:30	Core	Run sinker bar to retrive core barrel. Land out the sinker bar.
8:00	9:00	1:00	Core	Troubleshooting of Dual elevator. Change out dual elevator with another one.
9:00	9:30	0:30	Core	Break out DP conection, recover RCB inner core barrel. Make-up DP connection start pump 20m3 HI-VIS
9:30	11:00	1:30	Other	Drop center bit chase with 50 spm land out. 50-60-70-80-90-100-110-120spm x 2.2-3.2-4.2-5.5-7.3-8.7-10.5-12.3Mpa
11:00	15:30	4:30	DRLG	Tag bottom with 60spm and 60rpm at 7578.5m
				Drill down from 7578.5m to 7608m (*7606.5m)
				Pump 100-120spm x 8.2-13.0Mpa, HPS: 100-120rpm / 3-13kNm, WOB: 60-100kN, Ave. ROP: 9.6m/hr
15:30	16:00	0:30	Circ	Sweep out 10m3 Hi-vis. 120spm x 13.2Mpa
16:00	18:30	2:30	Core	Install sinker bar. Recover center bit. Remove sinker bar.
18:30	18:45	0:15	Circ	Circulation SW and bottom up. 160spm x 14.7Mpa.
				Meanwhile tag bottom with 60rpm and confirm bottom depth is 7606.5m with geologist.
18:45	19:15	0:30	Core	Drop inner barrel. Chase with 50spm x 1.5Mpa. Confirm landing by pressure increase to 2.6 Mpa after **min
19:15	19:30	0:15	Other	Check pressure with 60-70-80-90-100-110-120spm x 3.4-4.8-6.3-8.0-9.3-10.5-12.3Mpa
19:30	21:15	1:45	Core	Cut #4 RCB core from 7606.5m to 7614.5m (*7614m).
21:15	22:30	1:15	Core	Install sinker bar and lower same. to catch inner barrel. Unset inner barrel with 89kN cable tension. (20kN overpull)
22:30	24:00	1:30	Core	Recover inner barrel at constant speed of 60m/min (normal 250m/hr) to avoid vibration. HPS: 10spm x 10rpm.
				Remarks: *** is revised depth of tagging with 60spm / 60rpm after the connection.

No.	Core Type	On Deck	from mBRT	to mBRT	Advance m	Recovery m	%	Lithology	Remarks
2	RCB	3:03	7,566	7,571.0	5	3.55	71.0%	volcanic sand stone and tuff	100-120spm / 100-120rpm / 60-80kN Observed core fragment
3	RCB	9:45	7,571.0	7,578.5	7.5	6.60	88.0%	volcanic sand stone and tuffcious siltstone	60-80spm / 60-90rpm / 60-90kN Observed core fragment
	Drill Down	17:45	7,578.5	7,606.5	28.0	NA	NA	NA	100-120spm / 100-120rpm / 60-100kN
4	RCB	2:27	7,606.5	7,614.0	7.5	1.75	23.3%	soft mud stone	60spm / 60-80rpm / 60-90kN observe jammed at chaccher
5	RCB		7,614.0	7623.0**	9.0				80spm / 80rpm / 60kN

Remarks**Depth is just after drilling.

Time Breakdown (00:00 - 06:00 on **18-May**) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Detail of Operation
0:00	2:30	2:30	Core	Continue to recover inner barrel w / 60m/min. 10spm x 10rpm.
2:30	3:15	0:45	Core	Recover inner barrel. Check core. Meanwhile uninstall sinkerbar, connect HPS and sweep 10m3 w/180spm 19Mpa.
3:15	4:00	0:45	Core	Drop inner barrel, chase w/50spm 1.4Mpa, confirm landing 2.5Mpa. Check pump pressure and bottom depth w/60spm and 80rpm at 7614m
4:00	5:00	1:00	Core	Cut #5 core from 7,614.0m to 7,623mBRT. Coring parameter, pum 50spm w/6.0Mpa, rotate 80RPM w/0-10kNm, WOB 50-70kN.
5:00	6:00	1:00	Core	Circ w/40spm, stop pump and install sinkerbar, and run w/10spm pump and rotate 10rpm.

Bit Record

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)	Dull Condition Inner	Outer	Dull	Loc.	B	G	O.D.	RP
2	10-5/8	HCC	BHC410C		7138607	10 x 13/32	6918.0	7,614.5	696.5	35.75	0	100	80	120	190.9								

BHA Record

	3	Core bit x RCB core barrel (w/Long bit sub and 10-5/8" stab) x 10-5/8"Coring stab x 8-1/2" Core DC (2jts) x 10-5/8" Coring stab x 8-1/2" Core DC (9jts) x XO x 5.68" HWDP (12jts) x XO x 5" S140 pre. (68stds) x 5-1/2" S140 pre. (36stds) x XO x 5-1/2" S150 pre. (53stds) x 5-1/2"S150 New (18stds) x 6-5/8" Z-140 New

Hook Wt. (kN) @ 7,614 mBRT

Total Hook Weight	4,000
Pick Up Weight	
Slack Off Weight	
HPS & Traveling block	750

Mud Properties

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Gel St.	WL	Cake	pH	Pf	Cl-	K+	LGS	PPG	MBC	n	K	Temp In	Temp Out
Sea Water Gel	24:00	Pit	1.04	100	11	39	16 : 17			11.4							0.29	8.36	20	
Sea Water Gel	24:00	Pit	1.04	148	15	72	20 : 22			11.6							0.23	20.81	19	

Mud Pumps : 14-P-220 @ 7565.5 mBRT 5.00 gallon/stroke @97%

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6	160	800	14.7	
2	6				
3	6				

Personnel @24:00

CDEX	11
MQJ Crew	96
MQJ (Other)	0
MWJ	20
Scientist	27
Telnite	1
Sch-LWD	0
Sch-WL	1
Magnum	1
Franks	0
WWT	0
OCC	0
NOV	1
Kaiyodenshi	0
Core-IRM	0
Other	3
Total	161

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

Item	Received	Used	Stock
Barite (Bulk)	0	0	557,500
Bentonite (by S.Lanka)	0	0	0
Kunigel-VO (Bulk)	0	0	120,700
NaOH	0	0	7,000
Lime	0	0	6,840
XCD-Polymer	0	0	100
Rester	0	0	3,000
Baracor-100 (gal)	0	0	110
Telnite OS-5	0	0	120
	0	0	0
	0	0	0
	0	0	0
	0	0	0
	0	0	0
	0	0	0
	0	0	0

Helicopter Information

Flt. No.	Time Arrived	Time Departed	Passenger Are.	Passenger Dept.
1				
2				
3				
4				
5				

Safety (HSE) and other information

Incident	Last Incident	No. LTA
LTA		
HUNS cards	9	

Remarks

Geologic Information

From	To	Litho logy

Materials Stock on Board @24:00

Item	Unit	Received	Used	Stock
Fresh Water	m3	87.4	76.8	220.4
Potable Water	m3	0.0	5.2	115.2
Drill Water	m3	0.0	2.0	630.9
Fuel	m3	0.0	42.8	2,133.7
Lube. Oil	Ltrs	0.0	1,300	93,900
Heli Fuel	Ltrs	0.0	0.0	800.0

Marine Information @24:00

Heave (m)	0.5
Pitch (deg)	0.3
Roll (deg)	0.1
Vessel Heading (deg)	180
Riser Tension (ton)	-
V.D. Load (Moon)	10505.6
Max Draught (m)	9.0
Thruster (kW)	1,270

Mud Volume (m3)

Pre-Hyd.	392
Kill mud (1.30sg)	61
Premix SW	45
Sea Water Gel	97

Boat Information@24:00

Boat Name	Status	Time Departed	Time Arrived
No.18 Kaiko-Maru	Chikyu		

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	15.0	15.3	1003.7	6.0	100.0	8.4	1.5	180	7.3	0.6	336	22

Today's Schedule : Continue to cut RCB core