

Chikyu DAILY MORNING REPORT

Mission No.:

CK12-02

Exp. No.:

Exp 343

Report No.:

51

Site Name : JFAST3 Hole Name : C0019E Lat. 37°56.3343'N Long. 143°54.8084'E Report Date : 22/May/2012

Depth : @24:00 7,749.0 mBRT 831.0 mbsf Progress : 14.5 m Seabed Depth : 6,918.00 mBRT RT-MSL : 28.5 m

Depth : @06:00 7,749.0 mBRT 831.0 mbsf Drilling/Coring/Jetting Hrs. : 2.00 hrs LAST CASING : x mbsf

Summary of Operation on 21-May : Cut RCB core #15-#19

Present Operation to 06:00 on 22-May : Recover core #19

Time Breakdown (00:00 - 24:00 on 21-May)

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

From	To	Hrs	Code	Detail of Operation
0:00	1:15	1:15	Circ	Sweep out 50m3 Hi-vis 200gpm x 22.8Mpa
1:15	2:00	0:45	Core	Drop inner barrel. Chase w/50spm of sea water. 1.4Mpa → 2.4Mpa(34min)
2:00	2:45	#VALUE!	Core	Cut#15 core from 7,734.5m to 7,737.5mBRT (*7,736.5). WOB 50-60kN, 80spm, 6.0-6.2Mpa, 80-86rpm x 2-6.0kNm.
2:45	5:45	#VALUE!	Core	Install sinker bar . Recover inner barrel. (Control winding up speed)
5:45	6:45	1:00	Circ	Sweep out 50m3 Hi-vis 200gpm x 22.2-23.2Mpa
6:45	7:30	0:45	Core	Drop inner barrel. Chase w/50spm of sea water. 1.4Mpa → 2.4Mpa(34min)
7:30	8:00	0:30	Core	Cut#16 core from 7,736.5m to 7,740mBRT (*7,739.5mBRT). WOB 50-60kN, 85-90spm, 6.8-8.4Mpa, 80-86rpm x 4.0-8.6kNm.
8:00	11:15	3:15	Core	Install sinker bar . Recover inner barrel. (Control winding up speed)
11:15	12:15	1:00	Circ	Sweep out 50m3 Hi-vis 200gpm x 22.3-23.1Mpa
12:15	13:00	0:45	Core	Drop inner barrel. Chase w/50spm of sea water. 1.4Mpa → 2.6Mpa (33min)
13:00	13:30	0:30	Core	Cut#17 core from 7,739.5m to 7,743mBRT (*7,742.0mBRT). WOB 60-75kN, 80-85spm, 6.1-7.0Mpa, 80-95rpm x 3-8kNm.
13:30	16:30	3:00	Core	Install sinker bar . Recover inner barrel. (Control winding up speed)
16:30	17:45	1:15	Circ	Sweep out 50m3 Hi-vis 200gpm x 22.2Mpa
17:45	18:15	0:30	Core	Drop inner barrel. Chase w/50spm of sea water. 1.4Mpa → 2.6Mpa (33min)
18:15	19:00	0:45	Core	Cut#18 core from 7,742m to 7,746.5mBRT (*7744.5m). WOB 60-75kN, 80-85spm, 6.1-7.0Mpa, 80-95rpm x 3-8kNm.
19:00	21:30	2:30	Core	Install sinker bar . Recover inner barrel. (Control winding up speed)
21:30	22:30	1:00	Circ	Sweep out 50m3 Hi-vis 200gpm x 21.9Mpa
22:30	23:00	0:30	Core	Drop inner barrel. Chase w/50spm of sea water. 1.4Mpa → 2.3Mpa (33min)
23:00	0:00	1:00	Core	Cut#19 core from 7,744.5m to 7,752mBRT (*7749m). WOB 60-75kN, 80-90spm, 6.1-7.0Mpa, 80-120rpm x 3-8kNm.

* Actual bit depth confirm w/ 60spm / 60rpm

No.	System	On Deck	from mBRT	to	Advance m	Recovery m	%	Lithology	Remarks
15	RCB	5:50	7,734.5	7,736.5	2.0	1.47	73.5%	Greenish dark gray stiff mudstone	WOB 50-60kN, 80spm, 6.0-6.2Mpa, 80-86rpm x 2-6.0kNm.
16	RCB	11:05	7,736.5	7,739.5	3.0	1.48	49.3%	Dark gray firm mudstone w/moderate brown clay very fine patches at shoe bottom	WOB 50-60kN, 85-90spm, 6.8-8.4Mpa, 80-86rpm x 4.0-8.6kNm.
17	RCB	16:26	7,739.5	7,742.0	2.5	0.97	38.8%	Dark brown firm claystone w/scaley fabric	WOB 60-75kN, 80-85spm, 6.1-7.0Mpa, 80-95rpm x 3-8kNm.
18	RCB	21:21	7,742.0	7,744.5	2.5	1.66	66.4%	Pale brown firm claystone	WOB 60-75kN, 80-85spm, 6.1-7.0Mpa, 80-95rpm x 3-8kNm.
19	RCB	4:23	7,744.5	7,749.0	4.5	2.92	64.9%	Pale yellowish brown firm mudstone (siltyclaystone)	WOB 70-75kN, 80-90spm, 6.5-7.6Mpa, 80-120rpm x 3-8kNm.
20	RCB								
21	RCB								

From	To	Hrs	Code	Detail of Operation
0:00	2:15	2:15	Core	Install sinker bar . Recover inner barrel. (Control winding up speed)
2:15	4:30	2:15	Core	Find no recover inner barrel unsuccessfully. Change shear pin and re-run sinkerbar. Recover inner barrel.
4:30	5:30	1:00	Circ	Sweep out 60m3 Hi-vis 200gpm x 22.3Mpa
5:30	6:00	0:30	Core	Drop #20 inner barrel. Chase w/50spm of sea water. (1.4Mpa)

Bit Record

Bit No.	Size (in)	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mBRT)	Meter-age	Hrs.	WOB (kN)	rpm	Total Rev. (krev)	Dull Condition
2	10-5/8	HCC	BHC410C		7138607	10 x 13/32	From : 6918.0 To : 7,752.0	834.0	47.30	Min. : 0 Max. : 100	Min. : 80 Max. : 125	265.6	Inner Outer Dull Loc. B G O.D. RP

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 (2jgs) x 10-5/8" Coring stab x 8-1/2" Core DC (9jgs) x XO x 5.68" HWDP (12jgs) 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) @ 7.752 mBRT
		Total Hook Weight
		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
Sea Water Gel	Pit	1.04	141	15	66	28	28	11.5									0.25	17.57	18
Sea Water Gel	Pit	1.04	173	14	90	35	39	11.4									0.18	33.40	20

Mud Pumps : 14-P-220 @ 7730.0 mBRT

No.	Liner Size	SPM	GPM	Press. Coring (MPa)	Ann. Vel. (m/min)
1	6	200	1000	22.5	
2	6				
3	6				

Geologic Information

From	To	Litho logy

Materials Stock on Board @24:00

Item	Unit	Received	Used	Stock
Fresh Water	m3	102.5	73.1	263.7
Potable Water	m3	105.0	2.7	202.4
Drill Water	m3	0.0	17.5	589.5
Fuel	m3	0.0	45.5	1,956.6
Lube Oil	Ltrs	0.0	500	92,100
Helix Fuel	Ltrs	0.0	0.0	800.0

Boat Information@24:00

Boat Name	Status	Time
No.18 Kaiko-Marui	Chikyu	Departed
Kaiko		Arrived
		13:30
		5:45

Weather information

Time	Weather	Temp. (degC)	Barometer (hPa)	Wind	Wave	Current	Visibility
24:00	bc	Air 14.0 SW 16.9	1024.0	Speed (m/s) 8.8 Dir. (deg) 94.0 Gust (m/s) 10.5	Height (m) 1.1 Dir. (deg) 80	Period (s) 6.0 Speed(knt) 1.4 Dir. (deg) 354	(km) 22

Today's Schedule : Continue to cut RCB core to TD. POOH.

Personnel @24:00

CDEX	10
MOJ Crew	95
Bentonite (by S.Lanka)	0
MOJ (Other)	0
MWJ	20
Scientist	27
Telnite	1
Sch-LWD	0
Sch-WL	1
Magnum	0
Franks	0
WWT	0
OCC	0
NOV	1
Kaiyodenshi	0
Core-IRM	0
Other	3
Total	158

Mud Volume (m3)

Pre-Hyd.	40
Kill mud (1.30sg)	61
Premix SW	24
Sea Water Gel	140

Mud Materials on Board @24:00hrs

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	700	5,725
Lime	0	500	5,860
XCD-Polymer	0	0	100
Rester	0	0	3,000
Baracor-100 (gal)	0	0	110
Telnite OS-5	0	0	120
Franks	0	0	0
WWT	0	0	0
OCC	0	0	0
NOV	0	0	0
Kaiyodenshi	0	0	0
Core-IRM	0	0	0
Other	0	0	0

Marine Information @24:00

Heave (m)	0.2
Pitch (deg)	0.1
Roll (deg)	0.1
Vessel Heading (deg)	115
Riser Tension (ton)	0.7
V.D. Load (Moon)	10003.1
Max Draught (m)	9.0
Thruster (kW)	1,250

Helicopter Information

Fit No.	Time	Passenger
1	Arrived	Departed
2	9:40	9:47
3		
4		
5		

Safety (HSE) and other information

Incident	Last Incident	No. LTA
LTA		
HUNS cards	12	

Remarks

General safety meeting

Loading operation with Kaiko