Chikyu DAILY MORNING REPORT

Mission No. : CK16-02 **Exp. No.** 365 **Report No. :** 23

Site Name : C0010 **Hole Name :** C0010B **Lat.** 33° 12.5930'N **Long.** 136°41.1806'E **Report Date :** 18/Apr/2016

Depth : @24:00 **2,802.0** mBRT **248.0** mbsf Progress : **0.0** m Seabed Depth : **2,554.00** mBRT RT-MSL : **28.5** m

Depth : @06:00 **2,863.5** mBRT **309.5** mbsf Drilling/Coring/Jetting Hrs. : **13.00** hrs LAST CASING : x mbsf

Summary of Operation on **17-Apr** : Run 10-5/8"RCB BHA, Drop Center Bit, Tag Seabed, Drill down, Wait On weather, Troubleshoot on HPS, Resume Drill down.

Present Operation to 06:00 on **18-Apr** : Cont. drill down, C0010B-1R coring (retreiving 1st RCB core inner barrel)

mBRT: meter below rotary table

Time Breakdown (00:00 - 24:00 on **17-Apr**) mbsf: meter below sea floor

From	To	Hrs	Code	Detail of Operation
0:00	1:15	1:15	TRIP	Continue run 10-5/8"RCB BHA from 2000 to 2500mBRT with vessel drift 1.2 knot
				@1:05 Vessel arrive C0010B location.
1:15	2:15	1:00	OTHER	Install drain hose on mud bucket.
				Dive ROV to 2500mMSL.
2:15	2:45	0:30	TRIP	Drop center bit.
				Chase pumping with 0.4MPa. Increase Standpipe pressure to 1.2MPa after 11min.
				Check pressure: 40 - 60 - 80 -100 - 120 - 140spm x 1.2 - 1.9 - 2.9 - 4.7 - 6.7 - 8.8MPa.
2:45	3:30	0:45	TRIP	Resume run 10-5/8"RCB BHA to 2554mBRT.
				Seabed survey by ROV and confirm spud-in position.
				Adjust vessel position. Activate CMC and AHC on.
3:30	4:30	1:00	DRL	Tag seabed @2554mBRT and wash down w/30spm x 0.7MPa to 2587mBRT (0 - 33mbsf).
				Increase pump rate to 40spm x 1.1MPa & 50spm x 1.5MPa. Ave. ROP: 47m/hr.
4:30	8:30	4:00	DRL	Drill down from 2587 to 2663mBRT (33 - 109mbsf). Sweep out 5m3 SWG every stand.
				WOB: 10kN. TRQ: 20-30rpm x 2.0 - 2.5kNm. STPP: 60spm x 2.0MPa. Ave. ROP: 20.5m/hr.
8:30	9:45	1:15	WOW	Wait On Weather.
				Stand by for rough weather passing through the site.
				Wind / Wave: Ave. / Gust / Dir / Height / Period / Dir
				8:00 19.2m/s 23.7m/s 168deg 3.3m 7.2sec 170deg
				10:00 18.3m/s 21.3m/s 182deg 3.3m 8.1sec 170deg
9:45	12:15	2:30	DRL	Resume drill down from 2663 to 2701mBRT (109 - 147mbsf).
				WOB: 15kN. TRQ: 30rpm x 0.5 - 3.0kNm. STPP: 60spm x 2.1MPa. Ave.ROP: 19.5m/hr.
				Sweep out 5m3 SWG every stand.
12:15	15:00	2:45	RR	Troubleshoot on Pipe handler
				POOH to 2580mBRT due to unable break out saver sub by Pipe handler
				Break out by EBT, lay down 1 joint with saver sub then install replacement saver sub on HPS.
				Check function of pipe handler, confirm function and pressure good then MU saver sub by pipe handler with 60kN.
				Confirm drill pipe free with rotation 20rpm x 1.4kNm and circulation 60spm x 1.9MPa.
				Run back to 2701mBRT, No excessive drag down.
15:00	16:30	1:30	DRL	Resume Drill down from 2701 to 2727mBRT. Sweep out 5m3 SWG every stand.
				(15:00-15:30) WOB: 10kN. TRQ: 20-30rpm x 2.0 - 2.5kNm. STPP: 60spm x 2.0MPa. Ave. ROP: 20.5m/hr.
				(15:30-16:30) WOB: 10kN. TRQ: 60rpm x 2.0 - 2.5kNm. STPP: 60spm x 2.0MPa. Ave. ROP: 24m/hr.
16:30	20:00	3:30	RR	Troubleshoot on HPS.
				While drilling down @2727mBRT, stop HPS rotation because Gear Oil pressure sensor indicate " low".
				(16:30 - 19:15) POOH to 2575mBRT and service HPS by MQJ Data Technician (Adjust pressure sensor). * Meanwhile, Pump with 20spm x 0.3MPa.
				(19:15 - 20:00) Run back to 2727mBRT - No excessive drag down.
20:00	24:00	4:00	DRL	Resume Drill down from 2727 to 2802mBRT, Sweep out 5m3 SWG and Reaming 1time every stand.
				WOB: 10-30kN. TRQ: 30-70rpm x 0.5 - 4.5kNm. STPP: 60spm x 2.2MPa. Ave.ROP: 30.5m/hr.
				@5:00 Change DP status to "Advisory" due to over 18m/s of wind speed.
				@16:00 Change DP status to "Green" wind speed below 18m/s.

D/V "Chikyu"

Time	distance from W/C		sea current	current direction
0:00	1.2	mile	4.3 knot	107 deg
2:00	WC		4.2 knot	102 deg

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

From	To	Hrs	Code	Detail of Operation
0:00	4:45	4:45	DRL	Continue Drill down from 2802 to 2854mBRT.
				WOB: 10-30kN. TRQ: 30-70rpm x 0.5 - 4.5kNm. STPP: 60spm x 2.4MPa. Ave.ROP: 29m/hr.
				Sweep out 5m3 SWG and reaming 1time every stand
				Run RCB shinker bar, confirm landing and retreive center bit successfully (plugged two nozzles)
4:45	6:00	1:15	CORE	Cut Core of C0010B -1R (RCB 2854.0 - 2863.5mBRT 9.5m).
				Activate CMC and AHC
				Drop inner barrel. Chase w/50spm 0.6MPa to 2.2MPa (9min). Check P.P. 40-1.4, 50-2.2, 60-2.7, 80-4.3 (SPM-MPa).
				While sweep Hi-vis w/4.6MPa @80spm, observe increase pressure and torque. Work pipe, make good hole condition.
				Coring Parameter: WOB 0-25kN, 40rpm x 2.0-7.0kNm, 40spm x 2.4MPa. Ave. ROP: 35m/hr. Sweep out 5m3 SWG.

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
3	10-5/8"	BHI	BHC405C	M333	7152743	5 x 18/32"	2,554	2,802.0	248.0	13.0	10	30	20	70	27.3								

BHA Record

3	RCB	10-5/8"Core bit x Long bit sub w/stab. x 8-1/2"Core Barrel x Top sub x Head sub x 10-5/8"Stabilizer x 8-1/2"Core DC (2) x XO x 10-5/8"Stabilizer x XO x 8-1/2"Core DC (6) x XO x 5-1/2"DP S-140 (38stds) x XO x 5-1/2"DP S-150

Hook Wt. (kN) @	2802mBRT
Total Hook Weight	1,833
RCB BHA	140
HPS & Traveling block	750

Mud Properties

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Gel St. (10", 10')	WL	Cake	pH	Pf	Cl-	Sand	Oil	Solid	K+	LGS	MBC	Temp In	Temp Out	n	K
PHG	8:00		1.05	287	65	66	54 : 86			8.0									22		0.58	3.49
SWG	9:00		1.04	111	24	50	14 : 17			11.5									22		0.41	5.92
Kill mud	16:00		1.30	142	36	44	22 : 42			9.8									24		0.54	2.83

HELICOPTER INFORMATION

Flt. No.	Time Arrived	Time Departed	Passenger Arr.	Passenger Dept.
1	16:00	16:30	1	7
2				
3				
4				

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

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6	30	300	2.2	55.0 (DC) 27.0 (DP)
2	6	30			
3					

Personnel @24:00

CDEX	7
Scientist	11
MQJ Crew	100
MQJ (Other)	2
MWJ	15
ROV	6
NuStar	2
Cementing (Sch)	3
ODI	0
Telnite	1
Franks	0
Swellpacker(Halliburton)	0
Total	147

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

Item	Received	Used	Stock
Barite (Bulk)		6,000	0
Kunigel-VO (Bulk)			31,000
Calcium hydroxide		480	2,200
Caustic soda		500	1,975
XCD-Polymer		25	150
Defoamer 30C			160
Telnite GXL			144
Rester			3,700
Treat HS			1,000

Safety (HSE) and other information

Incident	Last Incident	No. LTA
LTA		
HUNS cards	20	

Remarks

Muster drill : oil Spill Drill

Geologic Information

From	To	Lithology of core

Materials Stock on Board @24:00

Item	Unit	Received	Used	Stock
Fresh Water	m3	90.6	64.3	291.5
Potable Water	m3	0.0	1.3	278.5
Drill Water	m3	0.0	13.4	2,216.0
Fuel	m3	0.0	62.9	6,541.8
Lube, Oil	Ltrs	0.0	1,000	115,900
Heli Fuel	Ltrs	0.0	0	0.0

Mud Volume (m3)	
Prehy Gel (1.05sg)	130
SWG (1.04sg)	90
Kill Mud (1.30sg)	23

BOAT INFORMATION

Boat Name	Status	Time Departed	Time Arrived
Heisei-maru	to SHINGU	-	-
Akatsuki	Current survey	-	-

Marine Information @24:00

Heave (m)	0.9
Pitch (deg)	0.8
Roll (deg)	0.3
Vessel Heading (deg)	258
Riser Tension (ton)	-
V.D. Load (Moon)	15212.2
Max Draught (m)	9.00
Thruster (kW)	2,950

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	bc	19.0	20.7	1010.0	13.8	258.0	14.6	2.7	170	6.6	2.7	85	22

Today's Schedule : Move to C0010C（new hole), Drill down to 300 mbsf, Cut RCB core

Reported by : N.Sakurai / T.Shiotani

Approved by : T.Ikawa