***Chikyu* DAILY MORNING REPORT** **Mission No. :** **CK16-02** **Exp. No. 365** **Report No. :** 25

Site Name : C0010 **Hole Name :** C0010C **Lat.** 33° 12.5899'N **Long.** 136°41.1748'E **Report Date :** 20/Apr/2016

Depth 10C : @24:00 **2,919.5** mBRT **366.5** mbsf Progress : **66.5** m Seabed Depth : **2,553.00** mBRT RT-MSL : **28.5** m

Depth 10C : @06:00 **2,933.5** mBRT **380.5** mbsf Drilling/Coring/Jetting Hrs. : **22.50** hrs LAST CASING : x mbsf

Summary of Operation on **19-Apr** : Cut Core from 2853.0 to 2919.5 mBRT (C0010C-1R, 2R, 3R, 4R, 5R, 6R, 7R)

Present Operation to 06:00 on **20-Apr** : Cut Core from 2919.5 to 2933.5 mBRT (C0010C-8R, 9R)

Time Breakdown (00:00 - 24:00 on **19-Apr**)

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

From	To	Hrs	Code	Detail of Operation
0:00	1:30	1:30	DRL	Continue run sinker bar and retrieve center Bit.
				After retrieve center bit, sweep out by hi-vis 5m3.
				Check P.P. without inner barrel 30-0.4, 40-0.5, 50-1.7, 60-1.0, 80-1.7 (spm-MPa).
1:30	4:15	2:45	CORE	Cut Core of C0010C -1R (RCB 2853.0 - 2862.5mBRT 9.5m).
				Drop inner barrel. Chase w/50spm 0.6MPa to 1.6MPa (11min). Check P.P. 30-0.6, 40-1.0, 50-1.6, 60-2.2, 80-4.0 (spm-MPa).
				Coring Parameter: WOB 0-40kN, 20-30rpm x 0.3-4.0kNm, 30-50spm x 0.6-1.8MPa. Ave. ROP: 12m/hr.
				* Cut with 20rpm, 30spm and low ROP around 10m/h at the beginning then increase each parameter, step by step.
				* Conduct two times thinker bar run for retrieving inner barrel. Sweep out 5m3 SWG with 80spm x 4.0MPa
4:15	7:00	2:45	CORE	Cut Core of C0010C -2R (RCB 2862.5 - 2872mBRT 9.5m).
				Drop inner barrel. Chase w/50spm 0.6MPa to 1.3MPa (12min). Sweep out 5m3 SWG , 80spm x 6.2MPa
				Coring Parameter: WOB 0-36.7kN, 20-30rpm x 0.3-5.5kNm, 30-45spm x 0.7-1.5MPa. Ave. ROP: 10m/hr.
7:00	9:30	2:30	CORE	Cut Core of C0010C -3R (RCB 2872 - 2881.5mBRT 9.5m).
				Drop inner barrel. Chase w/50spm 0.6MPa to 2.0MPa (12min). Sweep out 5m3 SWG, 80spm x 6.3MPa.
				Coring Parameter: WOB 0-76.5kN, 20-30rpm x 0.3-6.9kNm, 30-50spm x 0.8-2.7MPa. Ave. ROP: 12m/hr.
9:30	12:15	2:45	CORE	Cut Core of C0010C -4R (RCB 2881.5 - 2891mBRT 9.5m).
				Drop inner barrel. Chase w/50spm 0.6MPa to 2.1MPa (10min). Sweep out 5m3 SWG, 80spm x 5.8MPa.
				Coring Parameter: WOB 0-85.3kN, 20-30rpm x 2.3-11.5kNm, 30spm x 1.4-2.4MPa. Ave. ROP: 19m/hr.
12:15	16:30	4:15	CORE	Cut Core of C0010C -5R (RCB 2891.0 - 2900.5mBRT 9.5m).
				Drop inner barrel. Chase w/50spm 0.7MPa to 2.3MPa (12min). Sweep out 5m3 SWG, 80spm x 5.7MPa.
				Coring Parameter: WOB 30-90kN, 20-40rpm x 2.8-4.5kNm, 30-50spm x 1.0-2.3MPa. Ave. ROP: 9.5m/hr.
				(12:15 - 16:30) While chasing inner barrel, observe indication of Pack off (High TRQ over 12kN-m).
				Take a long time for remedying hole condition by reaming and reciprocation.
16:30	19:00	2:30	CORE	Cut Core of C0010C -6R (RCB 2900.5 - 2910.0mBRT 9.5m).
				Drop inner barrel. Chase w/50spm 0.6MPa to 2.5MPa (10min). Sweep out 5m3 SWG, 80spm x 5.6MPa.
				Check P.P. without inner barrel 30-0.5, 40-0.8, 50-1.1, 60-1.3, 70-1.7, 80-2.1 (spm-MPa).
				Coring Parameter: WOB 70-90kN, 20-30rpm x 4.5-5.4kNm, 30spm x 1.1MPa. Ave. ROP: 11.9m/hr.
19:00	24:00	5:00	CORE	Cut Core of C0010C -7R (RCB 2910.0 - 2919.5mBRT 9.5m).
				Drop inner barrel. Chase w/50spm. Sweep out 5m3 SWG, 80spm x 6.5MPa.
				Coring Parameter: WOB 70-90kN, 15-20rpm x 3.0-5.5kNm, 30spm x 1.05MPa. Ave. ROP: 9.9m/hr.
				(19:00 - 21:35) While chasing inner barrel, observe indication of Pack off (High TRQ over 12kN-m, Excessive drag down and over pull 150kN+/-).
				Take a long time for remedying hole condition by reaming and reciprocation.

Time Breakdown (00:00 - 06:00 on **20-Apr**) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Detail of Operation
0:00	0:45	0:45	CORE	Continue retrieve C0010C -7R (RCB 2910.0 - 2919.5mBRT 9.5m) by coreline winch
0:45	4:00	3:15	CORE	Cut Core of C0010C -8R (RCB 2919.5 - 2929.0mBRT 9.5m).
				Drop inner barrel. Pump 20m3 SWG (SWG 5m3: chase and sweep out w/80spm x 6.0MPa, SWG 15m3: spot to annuals for drill pipe connection)
				Coring Parameter: WOB 60-90kN, 15-20rpm x 2.2-5.6kNm, 30spm x 1.1MPa. Ave. ROP: 9.5m/hr.
				While chasing inner barrel, observe indication of stall HPS and high pump pressure.
4:00	6:00	2:00	CORE	Cut Core of C0010C -9R (RCB 2929.0 - 2933.5mBRT 4.5m).
				Drop inner barrel. Chase w/50spm. Sweep out 10m3 SWG, 60spm x 3.8MPa.
				Coring Parameter: WOB 50-75kN, 20rpm x 2.2-8.1kNm, 30spm x 1.2-2.0MPa. Ave. ROP: 10m/hr.

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
RR3a	10-5/8"	BHI	BHC405C	M333	7152743	5 x 18/32"	2,553	2,853.0	300.0	14.0	10	30	30	60	65.1								

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) @ 29.19.5mBRT

Total Hook Weight	1,940
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	9:00	-	1.05	286	64	69	53	84			8.1									22		0.57	3.88
SWG	10:00	-	1.04	102	17	52	14	18			12.0									22		0.32	9.52
Kill mud	15:00	-	1.30	142	36	40	21	38			9.6									22		0.56	2.32

HELICOPTER INFORMATION

Flt. No.	Time Arrived	Time Departed	Passenger Arr.	Passenger Dept.
1	-	-	-	-
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	35	350	3.8	65.0 (DC) 31.0 (DP)
2	6	35			
3					

Personnel @24:00

CDEX	6
Scientist	11
MQJ Crew	100
MQJ (Other)	2
MWJ	16
ROV	6
NuStar	0
Cementing (Sch)	1
ODI	0
Telnite	1
Franks	0
Swellpacker(Halliburton)	0
Total	143

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

Item	Received	Used	Stock
Barite (Bulk)			
Kunigel-VO (Bulk)		7,500	23,500
Calcium hydroxide		200	1,880
Caustic soda		100	1,675
XCD-Polymer			150
Defoamer 30C			160
Telnite GXL			144
Rester			3,700
Treat HS			1,000
Barite (Bulk)			23,930
* Loaded materials @Shimizu			

Safety (HSE) and other information

Incident	Last Incident	No. LTA
LTA		
HUNS cards	18	

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	69.5	64.0	331.2
Potable Water	m3	0.0	3.0	272.1
Drill Water	m3	19.4	70.3	2,165.1
Fuel	m3	0.0	48.0	6,442.0
Lube, Oil	Ltrs	0.0	900	115,000
Heli Fuel	Ltrs	0.0	0	0.0

Mud Volume (m3)	
Prehy Gel (1.05sg)	90
SWG (1.04sg)	124
Kill Mud (1.30sg)	23

BOAT INFORMATION

Boat Name	Status	Time Departed	Time Arrived
Heisei-maru	Current survey	-	10:00
Akatsuki	Current survey	-	-

Marine Information @24:00

Heave (m)	0.2
Pitch (deg)	0.3
Roll (deg)	0.2
Vessel Heading (deg)	299
Riser Tension (ton)	-
V.D. Load (Moon)	14942.4
Max Draught (m)	9.00
Thruster (kW)	1,670

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	15.0	19.8	1022.3	11.0	16.0	12.5	1.2	240	5.3	3.0	107	22

Today's Schedule : Continue Cut RCB core @C0010C

Reported by : N.Sakurai / T.Shiotani
Approved by : T.Ikawa