Chikyu DAILY MORNING REPORT

Mission No. : CK12-06 **Exp. No. :** Exp 338 **Report No. :** 87

Site Name : C0018 / C0021 **Hole Name :** C0018B / C0021A **Lat.** 33°09.4319'N / 33°10.0482'N **Long.** 136°40.8826'E / 136°39.8454'E **Report Date :** 27/Dec/2012

Depth : @24:00 **3463 / 2990** mBRT **350 / 24** mbsf Progress : **350 / 24** m Seabed Depth : **3113 / 2969** mBRT RT-MSL : **28.5** m

Depth : @06:00 **3,149.00** mBRT **180.00** mbsf Drilling/Coring/Jetting Hrs. : **11.50** hrs LAST CASING : - x - mbsf(- mBRT)

Summary of Operation on **26-Dec** : Run LWD BHA. Drill LWD hole to 350mbsf. POOH 300m above seabed and move to C0021 site. Run LWD BHA. Drill LWD hole.

Present Operation to 06:00 on **27-Dec** : Continue drill LWD hole.

mBRT: meter below rotary table

mbsf: meter below sea floor

Time Breakdown (00:00 - 24:00 on **26-Dec**

From	To	Hrs	Code	Detail of Operation
0:00	1:00	1:00	Trip	Continue run 12-1/4" LWD assembly to 2000mBRT.
1:00	1:15	0:15	SURV(Other)	Conduct #2 LWD test @2006mBRT with 140spm (700gpm) x 9.8-10.0MPa, "OK".
1:15	3:30	2:15	Trip	Continue run to 3100mBRT. Fill up seawater every 10stds.
3:30	4:15	0:45	SURV(Other)	Conduct #3 LWD test @3100mBRT with 140spm (700gpm) x 8.6MPa, "OK".
4:15	4:30	0:15	W&R	Pump down 12-1/4" LWD assembly to 3113mBRT with 140spm x 11.7-12.0MPa. WOB: -10~10kN.
				Control drilling (Set auto driller, Ave. ROP: 30m/hr, Max 45m/hr).
4:30	6:00	1:30	W&R	Spud in C0018B. Confirm seabed from LWD resistivity **(official seabed depth: 3113.0mBRT)**.
				Wash down 3113-3153mBRT (0-40mbsf, 40m) with 140spm x 11.8-12.0MPa. WOB: 0-15kN.
				Control drilling (Set auto driller, Ave. ROP: 40m/hr, Max 50m/hr).
6:00	17:30	11:30	DRL	Drill 12-1/4" LWD hole 3153-3463.0mBRT (40-350mbsf, 310m).
				WOB: 0-40kN, Pump: 140spm x 11.8-12.7MPa, HPS: 15-80rpm x 0.6-8.3kNm
				40-45mbsf: 15rpm x 1.8-2.5kNm
				45-50mbsf: 30rpm x 0-5.0kNm
				50-67mbsf: 45rpm x 0-5.0kNm
				67-242m: 60rpm x 0-5.0kNm
				242-350mbsf: 80rpm x 1.6-8.3kN-m
				Ream down two times before connection to prevent hole inclination build up.
				Sweep out 5m3 of SWG before connection from 60mbsf.
17:30	18:00	0:30	P&A	Spot Kill Mud (1.30sg) 26.2m3 and displace seawater 28.3m3.
18:00	20:00	2:00	Trip	POOH 12-1/4"LWD BHA to 2813mBRT.
				End of job for C0018B hole.
				Start of job for C0021A hole.
20:00	22:00	2:00	Move	Drift to C0021 site (Vessel speed: 0.6knot).
				Meanwhile, service HPS.
22:00	22:15	0:15	SURV(Other)	Conduct #1 LWD test @2804.86mBRT with 140spm x 11.0MPa, "OK".
22:15	23:30	1:15	Trip	Run to 2948.5mBRT.
23:30	24:00	0:30	W&R	Spud in C0021A. Confirm seabed from LWD resistivity **(official seabed depth: 2969.0mBRT)**.
				Wash down 2969.0-2990.0mBRT (0-24mbsf, 24m) with 140spm x 11.3MPa. WOB: 0-4 kN.
				Control drilling (Set auto driller, Ave. ROP: 40m/hr, Max 50m/hr).
				Meanwhile, Lay down 6-5/8" DP (Z-140) 12 jts. in auxiliary well.
				Hakuryu-maru move to NT2-13A site for current survey.

Sensor Offset from Bit (m)	
GVR Gmma Ray	1.12
Ring Resistivity	1.39
BD Resistivity	1.59
BM Resistivity	1.77
BS Resistivity	1.89
APWD	5.94
ARC Resistivity	6.65
ARC Gamma Ray	6.70
IWOB	10.84
D+I	14.19

Survey Data

depth (mBRT)	inclination (deg)	azimuth (deg)
3,113.00	0.00	0.00
3,118.67	0.63	336.91
3,158.72	1.60	281.92
3,197.12	1.38	279.03
3,234.92	0.88	280.72
3,273.35	0.63	279.81
3,311.73	0.39	288.97
3,349.23	0.31	291.47
3,387.87	0.18	281.45
3,426.23	0.12	249.90

Time Breakdown (00:00 - 06:00 on **27-Dec**) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Detail of Operation
0:00	1:00	1:00	W&R	Continue to wash down 2990-3009.0mBRT (24-40mbsf, 16m) with 140spm x 11.4Mpa. WOB: 0-4kN.
				Control drilling (Set auto driller, Ave. ROP: 40m/hr, Max 40m/hr).
1:00	6:00	5:00	DRL	Drill 12-1/4" LWD hole 3009.0-3149mBRT (40-180mbsf, 140m).
				WOB: 0-40kN, Pump: 140spm x 11.2-11.7MPa, HPS: 15-80rpm x 0-15kNm
				Control drilling (Set auto driller, Ave. ROP: 40m/hr, Max 50m/hr).
				40-45mbsf: 15rpm x 1.8-2.5kNm
				45-50mbsf: 30rpm x 0-5.0kNm
				50-60mbsf: 45rpm x 0-5.0kNm
				60-103mbsf: 60rpm x 0-5.0kNm
				103-180mbsf: 80rpm x 1.6-15kNm
				Sweep out 5m3 of SWG before connection from 100mbsf.
				Meanwhile, Lay down 5" DP (S-140) 10 jts that used in bottom section of stuck string in C0002I.
				0:00 Hakuryu-maru move to Shingu to offload recovered transponder.
				Supply boat Shincho-maru move to NT2-13A site for current survey. Current data @6:00, 3.3 knot @NT2-13A

Survey Data

depth (mBRT)	inclination (deg)	azimuth (deg)
2,969.00	0.00	0.00
2,977.21	0.26	342.36
3,015.34	0.14	259.64
3,053.85	0.09	306.88
3,092.05	0.15	280.85
3,130.20	0.12	325.36

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
RR2d	12.25	NOV	DSH606D-I2	423	A162762	12 x 7, 11 x 2	3113.00	3463.00	350.0	7.60	5	40	15	80	29.5								

BHA Record

LWD	RR2d	12-1/4"Bit x GVR-8 with 12-1/8"Stab (with float valve) x ARC-8 x Telescope 825HF x NM XO sub x NMDC x 12-1/8"Stab x 8-1/2"DC(9) x 7-3/4"LI Jar x 8-1/2"DC(3) x XO x 5-1/2"DP S-150(12) x XO x 5"DP S-140(42stds) x XO x 5-1/2"DP S-150.

Hook Wt. (kN) @24:00 3,450.0 mBRT

BHA (below 3stds of 5-1/2"DP S-150)	390
BHA (below 8-1/2"DC)	345
Below Jar	235
	390
Hook load	2435
Hook block w/HPS	700

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
SWG		Pit	1.04	85	8	42	12 13			11.5									17		0.21	13.16
kill mud		Pit	1.30	95	25	48	20 37			9.2									20		0.42	5.16

Mud Pumps : 14-P-220 @ 3463.0 mBRT 4.98 gallon/stroke @97%

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min) DC	Ann. Vel. (m/min) DP
1	6"	140	697	12.7	89	49
2	6"					
3	6"					

Personnel @24:00

CDEX	8
MQJ Crew	92
MQJ (Other)	1
MQJ (Add subsea E)	2
MWJ	20
NME	0
Scientist, IODP	16
Telnite	1
Oceaneering	0
NOV	0
MI Swaco	0
AXON	0
SES	0
Vetcogray	0
Geoservices	0
Schlumberger-CMT	0
Schlumberger-WIL	0
Schlumberger-LWD	2
Frank's	0
Blohm Voss	0
NOV-Anderreamer	0
Riser inspector	0
Core-IRM	5
Total	147

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

Item	Received	Used	Stock
Barite (Bulk)	0	21,000	341,000
Kunigel-VO (Bulk)	0	3,100	2,000
NaOH	0	0	0
Lime	0	100	1,820
NaCl	0	0	14,000
KCl	0	0	0
Tel-Polymer DX / L / H	0/0/0	0/0/0	0/4080/2060
XCD-Polymer	0	25	325
Soda Ash	0	0	1,350
KOH	0	100	2,225
Bi-Carbonate	0	0	1,000
Clean Lube	0	0	6,400
Tel DD	0	0	0
Lignate NC	0	0	4,800
Astex S	0	0	0
Treat HS	0	0	0
Defoamer 30C / 15	0/0	0/0	176/160
Telnite GXL	0	0	342
Tel Clean	0	0	0
Baracor-100 (gal)	0	0	0
Tel Stop G / P	0/0	0/0	0/0
Tel Mica C / M / F	0/0/0	0/0/0	0/0/0
Tel Plug C / M / F	0/0/0	0/0/0	0/0/0
Tan Cal C / M / F / FF	0/0/0/0	0/0/0	0/0/0/0
EZ Spot	0	0	0
Speeder P / X	0/0	0	0/0
Rester	0	0	0
Telnite OS-5	0	0	0
Telnite HEC	0	0	0

Cutting skip @24:00

Load (E)		Empty	0
Kaiyu	0	Full	0
Shincho-maru	0	Back up	0
Offload (F)		S.Boat (E / F)	0/0
Kaiyu	0	@ Shingu	45
Shincho-maru	0	total	45

Geologic Information

From	To	Lithology of core

Materials Stock on Board @24:00

Item	Unit	Received	Used	Stock
Fresh Water	m3	101.9	88.5	278.1
Potable Water	m3	0.0	8.0	267.9
Drill Water	m3	0.0	2.9	842.6
Fuel	m3	0.0	51.5	2,592.2
Lube, Oil	Ltrs	0.0	0.0	68,300.0
Heli Fuel	Ltrs	0.0	0.0	800.0
Cement "G"	ton	0.0	0.0	280.0

Boat Information @24:00

Boat Name	Status @24:00	Time @Chikyu Departed	Time @Chikyu Arrived
Shinchou-maru	Chikyu		17:00
Hakuryu-maru	Move to Shingu to offload transponder	24:00	

Mud Volume (m3)	
Kill Mud (1.30sg)	44
Heavy Seawater (1.10sg)	33
SWG (1.04sg)	102
Prehy Gel (1.05sg)	113

Heli Information

Flt. No.	Time Arrived	Time Departed	Passenger Are.	Passenger Dept.
1	09:15	09:21	2	2
2				
3				

Safety (HSE) and other information

Incident	Last Incident	No. LTA
LTA		
HUNS cards	32	
Remarks		

Marine Information @24:00

Heave (m)	0.2
Pitch (deg)	0.2
Roll (deg)	0.1
Vessel Heading (deg)	275
Riser Tension (kN)	-
V.D. Load (Moon)	10664.8
Max Draught (m)	9.0
Thruster (kW)	1560

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	7.0	21.4	1026.8	7.5	357.0	9.2	1.7	30	5.9	2.8	94	30.0

Today's Schedule : Dill LWD hole. POOH.

Reported by : S. Kataoka / D. Ikenomoto

Approved by : I. Sawada