Chikyu DAILY MORNING REPORT | **Mission No. :** CK12-06 | **Exp. No. :** Exp 338 | **Report No. :** 70

Site Name : C0002 | **Hole Name :** C0002H | **Lat.** 33°18.0252'N | **Long.** 136°38.2152'E | **Report Date :** 10/Dec/2012

Depth : @24:00 2,753.00 mBRT 788.00 mbsf | Progress : 788.00 m | Seabed Depth : 1,965.00 mBRT | RT-MSL : 28.5 m

Depth : @06:00 2,981.00 mBRT 1016.00 mbsf | Drilling/Coring/Jetting Hrs. : 16.25 hrs | LAST CASING : - x - mbsf(- mBRT)

Summary of Operation on 9-Dec : Continue drift vessel to well center. Spud in C0002H hole. Wash down and drill down 10-5/8" hole. Recover center bit.

Present Operation to 06:00 on 10-Dec : Drill down 10-5/8" hole.

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

Time Breakdown (00:00 - 24:00 on 9-Dec

From	To	Hrs	Code	Detail of Operation
0:00	3:00	3:00	Move	Continue drift vessel to well center of C0002H.
				Meanwhile,
				(00:00-00:45) Resume RIH to 1916mBRT. Fill up seawater every 10 stds.
				(00:45-01:15) Service rig of function test I-BOP, function "OK".
				(01:15-02:00) Break circulation and check circulation pressure without center bit, pump 200-140-120-100-80-60spm x 8.4-4.0-3.0-1.9-1.2-0.4MPa.
3:00	3:30	0:30	W&R(Other)	Drop center bit @1916mBRT.
				Landing center bit after 10min, pump 60spm x from 0.1 to 1.0MPa.
				Check circulation pressure with center bit, pump 60-80-100-120-140spm x 1.0-2.7-4.0-5.5-7.5MPa.
3:30	3:45	0:15	W&R	Pump down from 1916mBRT to1965mBRT.
				Pump down 100m/hr with pump 30spm x 0.1MPa.
3:45	4:30	0:45	W&R	Wash down 10-5/8" hole 1965-2001mBRT (0-36mbsf), 36m.
				Observed and confirm seabed as took weight from 1965mBRT, 20-40kN took weight @1967mBRT (**official sea bed depth: 1965mBRT**).
				Wash down 60-100m/hr with pump 50spm x 0.9-1.7MPa. WOB: 0-37kN. Wash down while 3m pick up strings for unexpected inclination increase.
4:30	20:00	15:30	DRL	Drill down 10-5/8" hole 2001-2753mBRT (36-788mbsf), 752m.
				Drill down 80-160m/hr with pump 50-130spm x 0.1-9.7MPa. HPS: start from 10rpm gradually up to 120rpm x 1-15kNm.
				WOB: 0-65kN. No fill, no drag and no over pull observed.
				Sweep out 5m3 SWG mud every stand above 2165mBRT (200mbsf) and thereafter 5m3 SWG every half stand.
				Meanwhile, drill down while pick up strings for unexpected inclination increase @2001-2065mBRT.
20:00	20:30	0:30	Core(Other)	Install hose to mud bucket.
				Meanwhile, continue circulation and bottoms up, pump 140spm x 11.1MPa and HPS 19rpm x 1.0-1.9kN-m @2749.21mBRT.
20:30	21:45	1:15	Core(N)	Attempt run sinker bar, but core line wire was slack when sinker bar pass to AKEMA wiper of HPS.
				Check AKEMA wiper of sinker bar, no problem.
				Try run sinker bar again "OK".
21:45	23:00	1:15	DRL(Other)	Run sinker bar and recover center bit to surface with pump 30spm x 0.4MPa, HPS 10rpm.
				Condition of center bit: 1ea plugged nozzle (steel debris) and bit face was no damage.
				Change out center bit to used bit and preserve no damage center bit.
23:00	23:30	0:30	C&C	Sweep 10m3 Hi-vis and 2 times bottoms up, pump 180spm x 10.0MPa.
				Check circulation pressure without center bit, 60-80-100-120-140spm x 0.9-1.8-3.0-4.5-6.1MPa @2726.24mBRT.
23:30	24:00	0:30	DRL(Other)	Drop center bit @2729.6mBRT.
				Landing center bit after 13min, pump 60spm x from 1.0 to 1.8MPa.
				Check circulation pressure with center bit, 60-80-100-120-140spm x 1.8-3.2-5.3-7.2-9.7MPa.
				(04:00) Shinchou-maru could not approach to Chikyu due to 3.6-3.8knot high current and 14-16m/s gust winds condition, suspended loading and off loading operation.
				(12:45) Hakuryu-maru escape to low current area due to strong winds (7.5 miles NNW from well center).

Wind condition

Time	Average speed (m/s)	Dir.(deg)	Gust(m/s)
02:00	10.1	305	12.2
04:00	11.8	307	14
06:00	12	303	15.5
08:00	8.4	310	13
10:00	13.6	307	16.6
12:00	15.3	270	18.2
14:00	21.2	295	21.9
16:00	14.4	320	16.5
18:00	20.9	298	22.2
20:00	16.5	311	18.5
22:00	11.4	293	13.4
24:00	11.3	299	14.6

16:50 Advisory status.
19:20 Green status.

Time Breakdown (00:00 - 06:00 on 10-Dec) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Detail of Operation
0:00	6:00	6:00	DRL	Drill down 10-5/8" hole 2753-2981mBRT (788-1016mbsf), 228m.
				Drill down 20-80m/hr with pump 130spm x 8.3-10.2MPa. HPS: 120rpm x 1-15kNm.
				WOB: 40-80kN. No fill, no drag and no over pull observed.
				Sweep out 5m3 SWG mud every half stand.
				Stall HPS @2957mBRT (992mbsf) then 200kN over pull strings after free pipe rotating. Therefor ream down from 2949 to 2957mBRT "stable".
				Note: change formation and increase ROP from 20-30 to 180m/hr @2939mBRT (974mbsf), thereafter continue high torque while drilling down.
				Meanwhile,
				Perform MPI for recover #1 RCB upper assembly (pull bar, latch dock and latch dock pin x 2) "OK" by MQJ Mechanic.

Wind condition

Time	Average (m/s)	Dir.(deg)	Gust(m/s)
02:00	16.1	289	18.8
04:00	18.2	294	21.8
06:00	18.3	318	19.2

02:45 Advisory status.

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	10.625	BHC	BHC408C	M333	7142020	8 x 13/32	1965.00	2,753.00	788.0	8.77	20	60	10	120	48.4								

BHA Record

Coring	3	Core bit x Bit Sub w/ 10-5/8"Stab x RCB Core Barrel x Top Sub x Head Sub x 10-5/8"Stab x 8-1/2"Core DC(11) x 8-1/2"Coring Jar x 8-1/2"Core DC(6) x XO x 5.68"HWDP(12) x XO x 5"DP S-14 42stds x 5-1/2" DP S-150.

Hook Wt. (kN) @24:00 2,748.3 mBRT

BHA	380
below HWDP	270
below jar	200
Hook load	2053
Hook block w/HPS	720

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		Pit	1.05	132	41	36	20	34			8.6									19		0.62	1.66
SWG		Pit	1.04	107	12	56	16	17			11.9									18		0.23	15.76

Mud Pumps : 14-P-220 @ 2729.6 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	9.7	128	59
2	6"					
3	6"					

Personnel @24:00

CDEX	7
MQJ Crew	96
MQJ (Other)	3
MQJ (Add subsea E)	2
MWJ	19
NME	0
Scientist, IODP	17
Telnite	1
Oceaneering	0
NOV	0
MI Swaco	0
AXON	0
SES	0
Vetcogray	0
Geoservices	0
Schlumberger-CMT	0
Schlumberger-DD	0
Schlumberger-LWD	2
Frank's	0
Blohm Voss	0
NOV-Anderreamer	0
Shinsei kougyo	0
TV Crew	0
Total	147

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

Item	Received	Used	Stock
Barite (Bulk)	0	0	428,000
Kunigel-VO (Bulk)	0	9,000	16,000
NaOH	0	25	700
Lime	0	240	2,320
NaCl	0	0	31,000
KCl	0	0	26,000
Tel-Polymer DX / L / H	0/0/0	0/0/0	5420/4120/2100
XCD-Polymer	0	0	925
Soda Ash	0	0	1,350
KOH	0	0	850
Bi-Carbonate	0	0	1,050
Clean Lube	0	0	6,000
Tel DD	0	0	3,400
Lignate NC	0	0	4,800
Astex S	0	0	0
Treat HS	0	0	1,680
Defoamer 30C / 15	0	0/0	192/160
Telnite GXL	0	0	342
Tel Clean	0	0	1,232
Baracor-100 (gal)	0	0	110
Tel Stop G / P	0/0	0/0	2160/1000
Tel Mica C / M / F	0/0/0	0/0/0	1500/480/1000
Tel Plug C / M / F	0/0/0	0/0/0	1500/3000/500
Tan Cal C / M / F / FF	0/0/0/0	0/0/0	2700/2010/1200/2100
EZ Spot	0	0	550
Speeder P / X	0	0	1,700/1,700
Rester	0	0	0
Telnite OS-5	0	0	120
Telnite HEC	0	0	100

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 cuttings

Shale Shaker / Centrifuge: hrs

No.1	#20 x 3/#110 x 4	No.4	#20 x 3/#110 x 4	No.1	0.00
No.2	#20 x 3/#230 x 4	No.5	#20 x 3/#230 x 4	No.2	0.00
No.3	#20 x 3/#110 x 4	No.6	#20 x 3/#110 x 4	No.3	0.00

Materials Stock on Board @24:00

Item	Unit	Received	Used	Stock
Fresh Water	m3	47.9	79.1	262.8
Potable Water	m3	48.1	10.7	313.2
Drill Water	m3	0.0	32.7	1,425.7
Fuel	m3	0.0	61.3	3,476.1
Lube, Oil	Ltrs	0.0	0.0	81,000.0
Heli Fuel	Ltrs	0.0	0.0	800.0
Cement "G"	ton	0.0	0.0	280.0

Mud Volume (m3)

Kill Mud (1.30sg)	174
KNPP (1.07-1.12sg)	230
SWG (1.04sg)	104
Prehy Gel (1.05sg)	212

Heli Information

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

Boat Information @24:00

Boat Name	Status @24:00	Time @Chikyu Departed	Time @Chikyu Arrived
Shinchou-maru	Chikyu		
Hakuryu-maru	Chikyu		10:25

Safety (HSE) and other information

Incident	Last Incident	No. LTA
LTA		
HUNS cards	22	

Remarks
Emergency drill @10:00.

Marine Information @24:00

Heave (m)	0.4
Pitch (deg)	0.2
Roll (deg)	0.2
Vessel Heading (deg)	293
Riser Tension (kN)	-
V.D. Load (Moon)	13238.4
Max Draught (m)	9.0
Thruster (kW)	2660

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	6.0	21.4	1013.6	11.3	299.0	14.6	1.4	290	5.7	3.3	104	29.0

Today's Schedule : Drill down 10-5/8" hole to 3065mBRT (1100mbsf). Cut core.

Reported by : S. Kataoka / T. Otani
Approved by : T. Saruhashi