Chikyu DAILY MORNING REPORT

Mission No. : CK12-06 **Exp. No. :** Exp 338 **Report No. :** 86

Site Name : C0002 / C0018 **Hole Name :** C0002L / C0018B **Lat.** 33°17.997'N / 33°09.4319'N **Long.** 136°38.220'E / 136°40.8826'E **Report Date :** 26/Dec/2012

Depth : @24:00 **2,471.00** mBRT **505.00** mbsf Progress : **9.50** m Seabed Depth : **1966/ 3113** mBRT RT-MSL : **28.5** m

Depth : @06:00 **3,153.00** mBRT **0.00** mbsf Drilling/Coring/Jetting Hrs. : **2.00** hrs LAST CASING : **-** x - mbsf(- mBRT)

Summary of Operation on **25-Dec** : Cut #24 ESCS core (TD). Spot Kill mud. POOH. Recover transponders. Move to C0018 site. RIH 12-1/4" LWD assembly.

Present Operation to 06:00 on **26-Dec** : Continue to run 12-1/4" LWD assembly. Conduct LWD shallow test#2,3. Spud in, Wash down.

mBRT: meter below rotary table

mbsf: meter below sea floor

Time Breakdown (00:00 - 24:00 on **25-Dec**

From	To	Hrs	Code	Detail of Operation
0:00	0:15	0:15	Core(Other)	Drop ESCS inner barrel. Pumping with 60spm x 0.4MPa. Landing after 13min, pressure increase to 5.7MPa. Check SPP with 60-80-100-120spm x 5.7-9.7-15.3-21.0MPa.
0:15	2:15	2:00	Core	Cut #24 ESCS core (2461.5-2471.0mBRT, 495.5-505mbsf, 9.5m). WOB: 30-100kN, Pump: 35spm x 1.9-2.9MPa, HPS: 50rpm x 2-15kN-m, Ave.ROP 40.7m/hr. Recover inner barrel w/normal pull.
				Install sinker bar. Latch on the inner barrel and recover inner barrel with 44kN pull 3times.

No.	Core System	Core on Deck	Depth (mBRT) from	Depth (mBRT) to	Advance m	Recovery m	Recovery %	Lithology	Remarks
24	ESCS	01:50	2461.5	2471.0	9.5	7.50	78.9%	Dark greenish gray silty clay w/Dark gray fine sand	gas expand in plastic liner.

From	To	Hrs	Code	Detail of Operation
2:15	2:45	0:30	C&C	Spot 35m3 of 1.30sg kill mud with 180spm x 7.1MPa. Displace with 12m3 of seawater. Meanwhile remove drain hose from mud bucket.
2:45	4:00	1:15	Trip	POOH to 1932mBRT (above seabed). No over pull observed.
4:00	4:15	0:15	C&C	Flush 2 string volume (34m3) of seawater with 180spm x 5.2 MPa.
4:15	10:30	6:15	Trip	POOH to surface. Break bit and long bit sub.
				Meanwhile,
				(06:30-07:00) Swap hydra-racker #1 to #2 due to malfunction main arm of #1.
				(07:45-08:15) Release and recover BCN214 transponder by watch boat.
				(08:20-08:56) Release and recover BCN213 transponder by watch boat.
				(10:28) Release BCN309 transponder.
10:30	12:30	2:00	Other	Continue to recover Transponders.
				(11:00) Recover BCN309 transponder by watch boat.
				(11:37-12:09) Release and recover BCN310 transponder by watch boat.
				Meanwhile,
				Troubleshoot encoder of A motor on HPS, repair and waterproofing to A and B motors, function "OK"
				Troubleshoot malfunction main arm of hydra-racker #1, function "OK".
				End of job for C0002L hole.
				Start of job for C0018B hole.
12:30	14:00	1:30	Move	Move vessel to 2mile upstream from C0018 hole.
				Meanwhile, lay out head sub, top sub and landing sub, no damage.
14:00	17:00	3:00	Trip	Make up and run 12-1/4" LWD assembly to 76mBRT. Check 12-1/8"GVR stab and 12-1/8" string stab. In gauge. Check float valve "OK".
17:00	17:45	0:45	Log(Other)	Conduct LWD shallow test @76mBRT with 140spm (700gpm) x 3.8MPa "OK". Found leakage from coralline ball valve.
17:45	18:30	0:45	RR(N)	Remove actuator and manual closed to ball valve.
18:30	22:00	3:30	Trip	Resume RIH to 1060mBRT. Fill up seawater every 10stds.
22:00	22:30	0:30	SURV(Other)	Conduct #1 LWD test @1060mBRT with 140spm (700gpm) x 8.6MPa "OK".
22:30	24:00	1:30	Trip	Resume RIH. Fill up seawater every 10stds.
				24:00 @1708mBRT.

Time Breakdown (00:00 - 06:00 on **26-Dec**) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Detail of Operation
0:00	1:00	1:00	Trip	Continue to 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	Resume RIH 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 C0018. Confirm seabed from LWD resistivity. **(official seabed depth: 3113mBRT)**.
				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).
				Meanwhile : Prepare and lay down drill pipe at off line. 6-5/8" DP (Z-140) 1 jt lay down.

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
RR5a	11.4375	ULTERRA	CC3	537	CZ059	4 x16	1966.00	2471.00	505.0	13.25	0	120	0	70	35.8	2	2	WT	A	2	I	-	TD
RR2d	*12.25*	*NOV*	*DSH606D-I2*	*423*	*A162762*	*12 x 7, 11 x 2*																	

BHA Record

ESCS	RR5a	Core bit x Bit sub x core barrel x Landing sub x Top sub x Head sub x 8-1/2"Core DC(11) x XO x 5-1/2"DP S-150(3stds) x XO x 5"DP S-140(41stds) x 5-1/2"DP S-150.
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 2,471.0 mBRT

BHA (below 8-1/2"DC)	220
BHA (below 3stds of 5-1/2"DP S-150)	275
Hook load	1800
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	84	8	46	14	15			11.5									17		0.20	15.59
kill mud		Pit	1.30	105	28	54	23	43			9.3									19		0.42	5.84

Mud Pumps : 14-P-220 @ 2471.0 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"	180	896	7.1	114	63
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
2,461.5	2,471.0	Dark greenish gray silty clay w/Dark gray fine sand

Materials Stock on Board @24:00

Item	Unit	Received	Used	Stock
Fresh Water	m3	102.7	88.2	264.7
Potable Water	m3	0.0	8.5	275.9
Drill Water	m3	0.0	65.1	845.5
Fuel	m3	0.0	53.8	2,643.7
Lube, Oil	Ltrs	0.0	2600(24,25)	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	Shingu		
Hakuryu-maru	Chikyu		

Mud Volume (m3)	
Kill Mud (1.30sg)	71
Heavy Seawater (1.10sg)	33
SWG (1.04sg)	137
Prehy Gel (1.05sg)	113

Heli Information

Flt. No.	Time Arrived	Time Departed	Passenger Arr.	Passenger Dept.
1	09:16	09:25	7	9
2				
3				

Safety (HSE) and other information

Incident	Last Incident	No. LTA
LTA		
HUNS cards	19	
Remarks		

Marine Information @24:00

Heave (m)	0.3
Pitch (deg)	0.3
Roll (deg)	0.2
Vessel Heading (deg)	280
Riser Tension (kN)	-
V.D. Load (Moon)	10665.8
Max Draught (m)	9.0
Thruster (kW)	1770

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	9.0	21.4	1021.7	11.9	307.0	15.2	1.7	290	6.3	1.9	101	30.0

Today's Schedule : Dill LWD hole. POOH above seabed.

Reported by : T. Otani / D. Ikenomoto / T. Yokoyama

Approved by : I. Sawada