

Chikyu DAILY MORNING REPORT

Mission No. : CK12-06

Lat. 33°18.0252'N/33°18.0362'N

Exp. No. : Exp 338

Report No. : 72

Report Date : 12/Dec/2012

Site Name : C0002 Hole Name : C0002H/C0002I Progress : 386.50 m Seabed Depth : 1,964.50 mBRT Long. 136°38.2152'E/136°38.2077'E RT.MSL : 28.5 m  
 Depth : @24.00 2,351.00 mBRT 386.50 mbsf Drilling/Coring/Jetting Hrs. : 6.00 hrs LAST CASING : - x mbsf( - mBRT)  
 Depth : @06.00 2,783.00 mBRT 818.50 mbsf  
 Summary of Operation on 11-Dec : Reaming up. Spot kill mud. POOH. Preparation for RCB coring. RIH RCB assembly. Wash and drill down 10-5/8" hole.  
 Present Operation to 06:00 on 12-Dec : Drill down 10-5/8" hole. mBRT: meter below rotary table  
 mbsf: meter below sea floor

From	To	Hrs	Code	Detail of Operation
0:00	1:00	1:00	TRIP	POOH with reaming up to 2850mBRT (885mbsf) Pump 30spm x 0.2MPa, HPS 140rpm x 1-7.2kNm. Spot 1.3deg x 60m3 kill mud and displace 18m3 seawater. <b>Suspended to C0002H hole.</b>
1:00	1:30	0:30	P&A	POOH RCB coring assembly to surface.
1:30	8:45	7:15	TRIP	No observed over pull and no packed off mark on strings. Check 53kNm make up torque to HWDP and XO sub due to setting 40kNm torque limiter of HPS while working pipe "OK" Vessel 1.5knot drifting to East when come up BHA to surface due to reduce banging to guide hole. Current: 3.1-3.3knot. Lay out #2 NOV hydraulic coring jar, found oil leakage from mandrel. Break out core bit, bit sub with stabilizer and head sub. Found 2 port plugging on inner seal for landing sub. Dull condition of 2ea coring stabilizers dull condition: -1/16" under gauge.

No.	Core System	Core on Deck	Depth (mBRT)	Advance	Recovery	Lithology	Remarks		
1	RCB	15.45	3,065.5	3,075.0	9.5	1.75	18.4%	Med gray soft fine sandstone.	Poly core upr 15 cm, mod fract cylindrical core in mid to btm. Dringmish gry Msd upr 1.4m, fSdst lwr 0.35m. Small normal faults in mid.
2	RCB	21.04	3,075.5	3,085.0	9.5	2.16	22.7%	Dark greenish gray stiff claystone.	Poly core in upr 0.45m, stringly fract cylindrical core lwr 0.8m. Med gray firm fSdst @super CC and lower section. Unconsolidated med gray fine sand in mid section.

**End of job for C0002H hole.**  
**Start of job for C0002I hole.**  
 Preparation for RCB core.  
 Clean up core bit, bit seal and landing seat insert for landing sub. Bit seal, flapper valve and inner seal for landing sub was "effective".  
 Meanwhile, move vessel West 270deg 2miles from C0002I well center.

From	To	Hrs	Code	Detail of Operation
8:45	11:00	2:15	Core(Other)	RIH RCB assembly to 1932.8mBRT. Vessel 0.7-0.8knot drifting to East when RIH BHA due to reduce banging to guide hole. Current: 3.4-3.7knot. Pick up and make up #3 new NOV hydraulic coring jar. Fill up seawater every 10 stds. (11:02-15:16) Move vessel to well center. Check circulation pressure: 60-80-100-120-140spm x 0.4-1.0-1.8-2.7-3.7MPa.
11:00	16:30	5:30	TRIP	Drop center bit and chase 60spm x 0.2MPa. Landing after 5min, increase pressure to 1.0MPa. Check pressure: 60-80-100-120-140spm x 1.0-2.0-3.4-4.9-6.9MPa.

Wash down 10-5/8" Hole 1964.5-1998.0mBRT (0-33.5mbsf, 33.5m).  
 Pump down from 1932.8BRT, 20kN took weight @1967.5mBRT (official sea bed depth: 1964.5mBRT @C0002I hole).  
 Wash down 50-140m/hr with pump 30-60spm x 0.6-2.1MPa. WOB: 30-40kN. Wash down while 3m pick up strings for unexpected inclination increase.  
 Drill down 10-5/8" hole 1998-2351mBRT (33.5-386.5mbsf, 353m).  
 Drill down 90-200m/hr with WOB: 30-40kN, pump: 60-120spm x 2.1-7.6MPa, HPS: 60-120rpm x 5.0-12.1kNm-m.  
 Meanwhile, drill down while pick up strings for unexpected inclination increase @1998.0-2061.1mBRT.  
 Sweep out 5m3 SWG every stand above 2164.5mBRT (200mbsf) and thereafter 5m3 SWG every half stand.

Meanwhile, off load 142m3 KNPP mud, 108jts 16"CSG (all), sonicVISION x 2 to Shinchou-maru. 01:50 Departure from Chikyu.  
 Hakuryu-maru survey current 2 mile SW from well center.

Time Breakdown (00:00 - 06:00 on 12-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 2351-2783mBRT (386.5-818.5mbsf, 432m). Drill down 90-180m/hr with WOB: 30-55kN, pump: 120spm x 8.2MPa, HPS: 100rpm x 2.5-11.9kNm-m. Sweep out 5m3 SWG every half stand.  Meanwhile, off load 123jts 13-3/8"CSG, 6jts pup 13-3/8"CSG, bumper riser joint.

Bit	Size	MFR	Type	IADC Code	S.No.	Nozzles	Depth (mBRT)	Meter-age	Hrs.	WOB (kN)	rpm	Total Rev. (rev)	Inner	Outer	Dull	Dull Condition								
3	10.625	BHC	BHC408C	M333	7142020	8 x 13/32	1965.00	3,085.00	1,120.0	15.57	30	80	20	120	95.7	1	1	BT1,CT2	N	X	1	PN2,WT	HP	
RR3a	10.625	BHC	BHC408C	M333	7142020	8 x 13/32	1964.50	2,351.00	386.5	2.63	10	40	10	120	11.9									

BHA Record  
 Coring : 3 / RR3a 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 DCI(11) x 8-1/2"Coning Jar x 8-1/2"Core DCI(6) x XO x 5.68"HWDP(12) x XO  
 Hook Wt. (kN) @24:00 2,351.0 mBRT  
 BHA below HWDP 390  
 below jar 320  
 below jar 220  
 Hook load 1785  
 Hook block w/HPS 720

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/Out)	n	K
SWG		PI	1.04	161	28	71	27	33		11.7									18	0.38	10.54
Kill Mud		PI	1.30	70	23	16	8	15		9.4									18	0.67	0.60

Mud Pumps	14-P-220 @ 2351.0 mBRT	4.98 gal/stroke @97%	Personnel @24:00	Mud Materials on Board @24:00hrs	(unit: kg)								
No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	DC	DP	CDEX	Item	Received	Used	Stock	
1	6"	120	598	7.2				MCJ Crew	Barite (Bulk)	0	20,000	408,000	
2	6"							MCJ (Other)	Kunigel-VO (Bulk)	0	0	2,000	
3	6"							MCJ (Add subsea E)	NaOH	0	0	325	
								MWJ	Lime	0	0	2,160	
									NaCl	0	0	31,000	
									KCl	0	0	25,000	
									Scientist, IODP	0	0	0	
									Telinite	1	0/0/0	5420/4120/2060	
									Oceansealing	0	0	100	825
									NOV	0	0	1,350	
									Mil Swaco	0	0	850	
									AXON	0	0	1,050	
									SES	0	0	6,000	
									Vetcogray	0	0	3,400	
									Geoservices	0	0	4,800	
									Schlumberger-CMT	0	0	0	
									Schlumberger-GD	0	0	1,680	
									Schlumberger-LWD	1	0	170/160	
									Frank's	0	0	342	
									Blohm Voss	0	0	1,232	
									NOV-Andersreamer	0	0	110	
									Shinsei kougyo	0	0/0	2160/1000	
									Tel Stop G / P	0/0/0	0/0/0	1500/300/500	
									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	1500/300/500	
									Tan Cal C / M / F / FF	0/0/0/0	0/0/0/0	2700/2010/1200/2100	
									EZ Spot	0	0	550	
									Speeder P / X	0	0	1,700/1,700	
									Resiter	0	0	0	
									Telinite CS-5	0	0	120	
									Telinite HEC	0	0	100	

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	95.0	85.7	290.0	
Potable Water	m3	0.0	8.7	297.2	
Drill Water	m3	0.0	35.4	1252.0	
Fuel	m3	0.0	48.6	3,365.6	
Lube, Oil	Ltrs	0.0	2,000.0	79,000.0	
Helix 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	Arrived
	Shinchou-maru	Chikyu	01:50		21:00
	Hakuryu-maru	Chikyu			

Mud Volume (m3)	Item	Volume
111	Kill Mud (1.30sg)	
88	KNPP (1.07-1.12sg)	
121	SWG (1.04sg)	
202	Phxy Gel (1.05sg)	

Weather Information	Time	Weather	Temp. (degC)	Barometer (hPa)	Wind (m/s)	Wave (m)	Current (knt)	Visibility (km)						
	24:00	bc	8.0	22.0	1020.2	11.0	333.0	13.4	1.2	300	4.6	3.1	82	29.0

Today's Schedule : Drill down to 3534.5mBRT (1570mbsf). Cut RCB core.

Hook Wt. (kN) @24:00	390
BHA below HWDP	320
below jar	220
Hook load	1785
Hook block w/HPS	720

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

Fit. No.	Time	Passenger
1	09:10	09:18
2	11:14	11:22
3	13:30	13:35

Incident	Last Incident	No. LTA
LTA	19	

Marine Information @24:00	Heave (m)	Pitch (deg)	Roll (deg)	Vessel Heading (deg)	Riser Tension (kN)	V.D. Load (Moon)	Max Draught (m)	Thruster (kW)

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