Chikyu DAILY MORNING REPORT

Mission No. : CK16-02 **Exp. No.** 365 **Report No. :** 21

Site Name : C0010 **Hole Name :** C0010A **Lat.** 33° 12.5981'N **Long.** 136°41.1924'E **Report Date :** 16/Apr/2016

Depth : @24:00 **3,206.0** mBRT **654.0** mbsf Progress : **0.0** m Seabed Depth : **2,555.00** mBRT RT-MSL : **28.5** m

Depth : @06:00 mBRT mbsf Drilling/Coring/Jetting Hrs. : hrs LAST CASING : **9 5/8IN** x **547.80** mbsf

Summary of Operation on **15-Apr** : Cont. RIH to 3167.5mBRT. Land CORK head. Cementing. Release HART. Drifting. POOH to surface. RD LTBMS equipment.

Present Operation to 06:00 on **16-Apr** : RD LTBMS equipment. RU guide horn.

Time Breakdown (00:00 - 24:00 on **15-Apr**)

mBRT: meter below rotary table

mbsf: meter below sea floor

From	To	Hrs	Code	Detail of Operation
0:00	3:30	3:30	OTHER	Continue to run completion assembly to 3094mBRT (5m above 9-5/8"CSG shoe).
				Observe no excessive drag while RIH.
3:30	3:45	0:15	OTHER	Change all 2-way valves' position from "Open" to "Close"
				Activate AHC and CMC on. Confirm the direction of ODI connector bay on CORK head: 220deg.
3:45	4:30	0:45	C&C	Circulate bottoms up with 40spm x 2.4MPa @3094mBRT
4:30	5:00	0:30	OTHER	Resume RIH LTBMS completion assembly to 3154mBRT.
				4:45 Confirm the direction of ODI connector bay on CORK head: 220deg
				Adjust vessel position to 7.5m toward 290deg due to drillpipe leaned to downstream side.
5:00	5:15	0:15	OTHER	PU & MU Cement stand.
				Adjust the alignment of ODI connector bay on CORK head by rotating string at 60deg CW @3140mBRT: 280deg.
5:15	5:30	0:15	OTHER	Land LTBMS onto wellhead @3167.5mBRT.
				Taking weight from 3167.5mBRT.
				Confirm CORK landed and Slack off 110kN against CORK head using CMC .
				Vessel adjust the inclination of string by shifting 7m South direction.
5:30	6:15	0:45	OTHER	Test 3ea x sensors with ODI connector: All sensors work well..
6:15	7:15	1:00	C&C	Circulate bottoms up with 200spm x 3.8MPa.
7:15	8:00	0:45	CMT	Line up CMTunit.
				Flush CMTG line with 2bbl Spacer. Pressure test for CMTG line with 500psi x 5min & 3000psi x 10min: OK.
8:00	8:30	0:30	CMT	Pump 27.9m3 of Inhibited NaCl Brine by rig pump with 200spm x 2.0MPa.
				Mix 1.9sg x 50bbl FlexStone with Batch mixer.
8:30	10:45	2:15	CMT	Cementing for LTBMS (Estimated TOC: 3005.6mBRT)
				(08:30 - 08:45) Pump 17.2bbl of Spacer and 1.6bbl Flexstone then drop bottom plug.
				(08:45 - 08:58) Pump 40.0bbl of FlexStone.
				(08:58 - 09:00) Pump 1.6bbl of Spacer(for surface line) then drop top plug.
				(09:00 - 09:05) Pump 0.3bbl of spacer and 8.5bbl of Inhibited NaCl brine.
				(09:05 - 09:57) Pump 164bbl of Seawater. Reduce pump rate to confirm plug bump from 3.5 to 2.0bpm. .
				Bump bottom plug @2750psi and top plug @500psi
				Bottom plug bump timing: 8bbls delayed, Rupture pressure is 1750psi higher than design.
				Top plug bump 3bbls earlier and do not hold bump pressure. Stop pumping at Max. displacement of 164bbls.
				(09:57 - 10:02) Hold pressure 5min w/220psi
				(10:02 -10:45) Bleed off pressure (Return 0.5bbl). Rig down CMTG line.
				Shift all sensors to "Monitoring mode".
10:45	11:15	0:30	OTHER	Release HART.
				Slack off 100kN (2m: from 3167.5 to 3169.5mBRT)
				Pull out dummy hotstab and install proserv hotstab then apply pressure and CMC to release, and pick up string.
11:15	12:15	1:00	C&C	Drop sponge ball and flush string two times with 100spm x 2.0MPa.
				@11:24 Move vessel to 30m offset from well center.
				@11:30 Test 3ea x sensor cables: All sensors work well.
12:15	19:45	7:30	TRIP	POOH running BHA with removing VIV suppression ropes to 690mBRT.
				@12:15 Arrange all 3-way valves from "Ocean" to "Zone".
				@12:30 Counduct sensor communication test for pressure logger: OK.
				Recover corrosion cap.
				@15:00 Drift vessel w/0.3knot to north side from Well center @Bit depth 1800mBRT and ROV depth 1000mMSL.
				@19:15 Change vessel heading to 220deg then start back drifting 0.8 knot along current while recovery of drillpipe w/VIV suppression ropes.
19:45	23:00	3:15	TRIP	Continue POOH running BHA to the rig floor then lay down HART tool
				@22:00-22:30 Recover ROV to 300mMSL and adjust drifting speed to 2.3 knot along current for recovering ROV to surface.
23:00	24:00	1:00	OTHER	Remove Guide Roller, Completion Guide Roller and VIV suppression rope drums from moonpool
				Reduce drifting speed to 1.6 knot for stabilizing vessel.

D/V "Chikyu"

Time	distance from W/C		sea current	current direction
0:00		W/C	3.7 knot	110 deg
4:00			3.3 knot	111 deg
8:00			2.5 knot	106 deg
12:00			2.4 knot	101 deg
16:00	0.5 mile		3.3 knot	101 deg
20:00	1.5 mile		3.4 knot	95 deg
24:00	2.9 mile		1.8 knot	93 deg

Time Breakdown (00:00 - 06:00 on **16-Apr**) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Detail of Operation
0:00	2:15	2:15	OTHER	Continue to remove Guide Roller, Completion Guide Roller and VIV suppression rope drums from moonpool.
2:15	6:00	3:45	OTHER	Rig up Guide horn, on going.
				Transfer Lower guide horn onto BOP cart.
				Transfer and Install Middle guide horn to Lower guide horn.
				Install Upper guide horn, on going.
				Prepare RCB coring at Auxiliary well.

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

BHA Record

Hook Wt. (kN) @ 0mBRT

Total Hook Weight 790

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	14:00		1.05	283	61	70	55 86			8.0									21		0.55	4.21

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				
2	6				
3					

Personnel @24:00

CDEX	5
Scientist	11
MQJ Crew	100
MQJ (Other)	2
MWJ	14
ROV	6
NuStar	2
Cementing (Sch)	3
ODI	2
Telnite	1
Franks	4
Swellpacker(Halliburton)	1
Total	151

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

Item	Received	Used	Stock
Barite (Bulk)			6,000
Kunigel-VO (Bulk)			31,000
Calcium hydroxide			2,680
Caustic soda			2,475
XCD-Polymer			175
Defoamer 30C			160
Telnite GXL			144
Rester			3,700
Treat HS			1,000

Safety (HSE) and other information

Incident	Last Incident	No. LTA
LTA		
HUNS cards	14	
Remarks		

Geologic Information

From	To	Lithology of core

Materials Stock on Board @24:00

Item	Unit	Received	Used	Stock
Fresh Water	m3	71.2	65.0	234.9
Potable Water	m3	0.0	6.1	282.0
Drill Water	m3	0.0	5.1	2,238.0
Fuel	m3	0.0	48.8	6,651.3
Lube, Oil	Ltrs	0.0	0	117,400
Heli Fuel	Ltrs	0.0	0	0.0

Mud Volume (m3)

Prehy Gel (1.05sg)	200
NaCl Brine (1.15sg)	0
Kill Mud (1.30sg)	0

BOAT INFORMATION

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

Marine Information @24:00

Heave (m)	0.3
Pitch (deg)	0.3
Roll (deg)	0.4
Vessel Heading (deg)	294
Riser Tension (ton)	-
V.D. Load (Moon)	15128.4
Max Draught (m)	9.00
Thruster (kW)	1,400

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	17.0	20.0	1019.8	2.8	355.0	3.6	1.0	30	5.7	1.8	93	22

Today's Schedule : Cont. RU guide horn. MU and Run 10-5/8"RCB BHA. Drill down to 300mbsf.

Reported by : N.Sakurai / T.Yokoyama

Approved by : T.Saruhashi