

**Chikyū DAILY MORNING REPORT**

**Mission No. :**

**CK16-02**

**Exp. No. 365**

**Report No. :**

**10**

**Site Name :** C0010

**Hole Name :** C0010A

**Lat. :** 33° 12.5981'N

**Long. :** 136°41.1924'E

**Report Date :**

**5/Apr/2016**

Depth : @24:00 3,206.0 mBRT

654.0 mbsf

Progress : 132.0 m

Seabed Depth : 2,552.00 mBRT

Drilling/Coning/Jetting Hrs. : 8.00 hrs

RF-MSL : 28.5 m

LAST CASING : 9 5/8IN

x 547.80 mbsf

mBRT: meter below rotary table

mbsf: meter below sea floor

Summary of Operation on 4-Apr

MU and RIH 8-1/2" x 9-7/8" Underreamer BHA, DOC and drill 9-7/8" Underream hole. Spot protect zone

Present Operation to 06:00 on 5-Apr

POOH 8-1/2" x 9-7/8" Underreamer BHA w/drifting

Time Breakdown (00:00 - 24:00 on 4-Apr

From	To	Hrs	Code	Detail of Operation
0:00	1:00	1:00	OTHER	Install wear bushing into Upper Guide Horn and master bushing.
1:00	12:00	11:00	TRIP	Make up and RIH 8-1/2" x 9-7/8" Underreaming assembly. Pick up 8-1/2" Bit and NBR800 Underreamer (Halliburton), 8-1/2" Stabilizer, 6-3/4" H-M Jar (NOV). Fill up every 15stds. Break Circulation @2550mBRT (40-60spm x 1.7-3.3MPa), 2975mBRT (40-60spm x 1.4-3.1MPa). * Confirm return flow comes from Bit Nozzle. Tag w/20spm x 0.5MPa @3074.0mBRT. * Depth is deeper 3.0m +/- than planning 9-5/8" F/C depth @3071.1mBRT. (09:30 - 10:00) Active CMC, align and stab in BHA to wellhead w/monitoring by ROV.
12:00	14:30	2:30	CMT	Drill out Cement and Float Collar, Float Shoe. Plugs from 3074 to 3109.5mBRT. WOB: 0 - 60kN, HPS: 40-50rpm x 2.5-11kN-m, MP: 60spm x 3.1MPa. Sweep out 10m3 PHG for hole cleaning every 15m. No observe cement from 3101.0m BRT. Reaming time: 98min, Average ROP: 21.7m/hr. Estimate depth by reaming parameter: Float Shoe - 3099.5mBRT. 12-1/4" Hole BTM - 3109.5mBRT. * All Depth is deeper 3.0m +/- than planning.
14:30	15:00	0:30	DRL	Drill 8-1/2" pilot hole from 3109.5 to 3115.5mBRT. WOB: 20-50kN, HPS: 50rpm x 2.2-5.6kN-m, MP: 60spm x 3.6MPa. Sweep out 10m3 PHG for hole cleaning.
15:00	15:15	0:15	DRL	Activate Underreamer @3103.5mBRT. Check Hook load before activate (↑ 2088kN, ↓ 2000kN), Increase Pump rate to 140spm for shearing activate pin of Underreamer. Keep pumping 13min. Confirm Underreamer cutter open by increasing overpull and HPS torque increased. * ↑ 2088kN, ↓ 2000kN -> ↑ 2100kN, ↓ 1980kN, 90rpm x 4kN -> 90rpm x 4.5 - 5.0kN.
15:15	19:45	4:30	DRL	Drill 8-1/2" Hole w/Opening 9-7/8" Hole to 3206.0mBRT. WOB: 10-20kN, HPS: 110-120rpm x 4.0-13.0kN-m, MP: 120-140spm x 10.7-11.1MPa. Sweep out 5m3 PHG every joint for hole cleaning.
19:45	21:30	1:45	DRL	Wiper Trip from 3206.0m to 3099.5mBRT (9-5/8" CSG shoe). MP: 120spm x 11.2MPa, HPS: 110rpm x 3.0-4.2kN-m. * No excessive overpull & TRQ - Hole condition is good.
21:30	23:00	1:30	C&C	Pump & sweep 1.30sg weighted mud. MP: 120 - 160spm x 11.0 - 18.0MPa. HPS: 50rpm x 4.3 - 5.9kN-m.
23:00	24:00	1:00	OTHER	Spot Protect Zone by Schlumberger CMTG unit. Line up CMTG line (Batch Mixer - CMTG Unit - Stand pipe - HPS). Perform Pressure test w/ 250psi x 5min, 3000psi x 10min. Adjust pH and mix additives (Crosslinker) with KCl Brine at Batch Mixer.

Time	distance from W/C	sea current	current direction
0:00	8.0 mile	3.0 knot	100 deg
2:00	8.0 mile	3.6 knot	99 deg
4:00	7.6 mile	3.5 knot	94 deg
6:00	4.1 mile	3.6 knot	93 deg
8:00	0.5 mile	3.8 knot	96 deg

\* Arrive Well center at 09:00

Time Breakdown (00:00 - 06:00 on 5-Apr) \* The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Detail of Operation
0:00	1:15	1:15	OTHER	Continue to Spot Protect Zone by Schlumberger CMTG unit. Mix and Spot Liner Gel (ahead Protect Zone) x 0.5kL, Protect Zone x 3.7kL (3206.0 - 3156.0mBRT), Liner Gel (behind Protect Zone) x 0.5kL. Displace with Sea water x 31.1kL. * Mix at Batch Mixer and transfer slurry to CMTG Unit. Start pumping by CMTG pump. (01:00 - 01:15) While displacing with Sea water, switch CMTG Pump to Rig Pump because of CMTG pump's trouble.
1:15	6:00	4:45	TRIP	POOH 8-1/2" x 9-7/8" Underreaming assembly to 2050mBRT. No excessive overpull while POOH. Observe downhole make up from top of #35 5-1/2" DP stds (Depth@ Drilling operation : 200 - 1000mBRT +/-). Unable to break connection x 3jts of #35 5-1/2" DP stds (Depth@ Drilling operation : 200 - 330mBRT) by 140kN-m (Maximum Rotary long TRQ). Difficulty breaking DP connection at these depth. Break connection w/100 - 140kN-m (5-1/2" DSTJ MU TRQ: 68kN-m). * Use Rotary long at these depth for breaking connection.

Bit No.	Size (in)	MFR	Type	IADC Code	S.No.	Nozzles	Depth (mBRT)		Meter-age	Hrs.	WOB (kN)		rpm		Total Rev. (krev)	Dull Condition							
							From	To			Min.	Max.	Min.	Max.		Inner	Outer	Dull	Loc.	B	G	O.D.	RP
1	8-1/2	HDBS	MME55	M323	12620955	13 x 5	3074.0	3,206.0	132.0	8.00	0	60	40	120	46.6								

Item	Quantity	Remarks
#1	1	8-1/2" PDC Bit x NBR800 Underreamer (8-1/2" x 9-7/8") x Bit sub w/Float x XO x 8-1/2" Stab x XO x 6-3/4" DC(9) x 6-3/4" H-M Jar x 6-3/4" DC(3) x XO x 5-1/2" DP(S-140) 38stds x 5-1/2" DP(S-150)

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Gel St. (10", 10')	WL	Cake	pH	PI	Cl-	Sand	Oil	Solid	K+	LGS	MBC	Temp (In/Out)	n	K
Kill mud	9:00		1.30	130	64	46	12	17		10.2									21	0.66	1.78
PHG	16:00		1.05	273	72	100	68	97		8.4									21	0.50	7.41

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6	80	400	18.0	136 (DC)
2	6	80	400		100 (DP)
3					

From	To	Lithology of core

Item	Unit	Received	Used	Stock
Fresh Water	m3	44.6	58.4	235.9
Potable Water	m3	0.0	1.2	321.8
Drill Water	m3	0.0	41.2	2,325.2
Fuel	m3	0.0	51.6	7,149.8
Lube Oil	Ltrs	0.0	0	127,000
Heil Fuel	Ltrs	0.0	0	0.0

Name	Count
CDEX	5
Scientist	11
MIQJ Crew	100
MIQJ (Other)	1
MWJ	14
ROV	6
NuStar	3
Cementing (Sch)	3
WIL (Sch)	0
Tainie	1
BHJ	1
Underreamer(Halliburton)	1
Total	146

Item	Received	Used	Stock
Barite (Bulk)			6,000
Kunigel-VO (Bulk)			31,000
Calcium hydroxide			2,680
Caustic soda			2,500
XCD-Polymer			175
Defoamer 30C			160
Tainite GXL			144
Resster			3,700
Treat HS			1,000

Boat Name	Status	Time
Heisei-maru	Katsura(ETA6:00)	24:00
SWG (1.04sg)		
Akatsuki	Current survey	

Fil. No.	Time		Passenger	
	Arrived	Departed	Are.	Dept.
1				
2				
3				
4				

Incident	Last Incident	No. LTA

Item	Value
Heave (m)	0.7
Pitch (deg)	0.4
Roll (deg)	0.2
Vessel Heading (deg)	281
Riser Tension (ton)	-
V.D. Load (Moon)	15805.0
Max Draught (m)	9.00
Thruster (kW)	2,950

Time	Weather	Temp. (degC)	Barometer (hPa)	Wind			Wave			Current		Visibility (km)	
				Speed (m/s)	Dir. (deg)	Gust (m/s)	Height (m)	Dir. (deg)	Period (s)	Speed(knt)	Dir. (deg)		
24:00	bc	19.5	21.5	1008.4	4.2	257.0	0	2.1	160	6.8	3.4	98	19

Today's Schedule : Continue to POOH 8-1/2" x 9-7/8" Underreaming assembly. Make up and RIH 9-5/8" CSG Scraper. Circulation, POOH to surface.

Reported by : T.Shiotani / T.Yokoyama  
Approved by : T.Ikawa