Chikyu DAILY MORNING REPORT

Mission No. : CK18-04 **Exp. No. :** Exp 358 **Report No. :** 119

Site Name C0002 **Hole Name** C0002S **Lat.** 33° 18.0507'N **Long.** 136° 38.2029'E Seabed Depth : 1,967.5 mBRT RT-MSL : 28.5 m **Report Date :** 3/Feb/2019

Depth : @24:00 4,779.5 mBRT 2812.0 mbsf Progress : 6.3 m Drilling/Coring/Underreaming Hrs. : 1.25 hrs Last BOP PT: 1/28/19 Next BOP PT: 2/18/19

Depth : @06:00 4,779.5 mBRT 2812.0 mbsf LAST CASING : 9-5/8" x 11-3/4" ESET x 2,802.50 mbsf(4,770.0 mBRT) Last BOP FT: 1/25/19 Next BOP FT: 2/5/19

Summary of Operation on 2-Feb : Mill CSG window. Dress the window. Circ. and BTMs up. Dress middle ramp. Circ. and BTMs up. POOH 9-3/4" Tri-mill. Last Glycol 35gal Inj. 1/29/19

Present Operation @ 06:00 on 3-Feb : Cont. POOH 9-3/4"Tri-mill to surface. MU & RIH 8-1/2"KO BHA.

mBRT: meter below rotary table

Time Breakdown (00:00 - 24:00 on 2-Feb) mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	1:15	1:15	OTHER	4,779.0	Continue to mill the window with whipstock from 4,772.5mBRT (Tide: 0.3m) to 4,779mBRT (Tide: 0.5m). Progress: 6.3m
					WOB: 5-40kN, 600gpm x 15.9MPa, 100rpm x 10-31kNm. Boost riser w/450gpm. Ave. ROP: 5.2m/hr. Pump 5m3 of BAROLIFT sweep every 1 hour.
					Torque decrease to 15-18kNm from 4,772mBRT and to 14-16kNm from 4,773.5mBRT.
1:15	2:30	1:15	OTHER	4,779.0	Dress the window.
					1. Ream up from 4,779 to 4,768mBRT: 30rpm x 10-20kNm. Observe torque increased to 25kNm at 4,770mBRT.
					2. Ream down from 4,768 to 4,779mBRT: 100rpm x 12-15kNm. Observe torque increased to 31kNm at 4,770mBRT and to 25kNm at 4,773mBRT.
					3. Ream up from 4,779 to 4,768mBRT: 60rpm x 11-14kNm. Observe torque increased to 31kNm at 4,770mBRT.
					4. Ream down from 4,768 to 4,779mBRT: 120rpm x 15-16kNm. Observe torque increased to 31kNm at 4,770mBRT: True North, M: Magnetic North, G: Grid North
					5. Ream up from 4,779 to 4,768mBRT: 60rpm x 13-15kNm. Observe no torque increased.
					6. Ream down from 4,768 to 4,771mBRT: 60rpm x 12-15kNm.
					7. Ream up from 4,771 to 4,768mBRT: 60rpm x 12-15kNm.
					8. Ream down from 4,768 to 4,771mBRT. 100rpm x 14-15kNm.
					9. Ream up from 4,771 to 4,769mBRT: 60rpm x 12-15kNm.
					10. Ream down from 4,769 to 4,774mBRT: 100rpm x 14-15kNm.
					11. Ream up from 4,774 to 4,768mBRT: 60rpm x 12-15kNm.
					Stop rotation and run back to 4,779mBRT to check drag while passing the window: Confirm no excessive drag.
					Check the bottom w/taking weight 80kN at 4,779.5mBRT.
2:30	3:45	1:15	C&C	4,779.5	Circulate and bottoms up w/700gpm x 20.5MPa.
					Pump BAROLIFT sweep 10m3, 15m3 and 15m3.
					Run back to bottom w/500gpm x 11MPa and 40rpm x 13kNm when BAROLIFT comes out from bit and start picking up.
					Observe torque increased to 25kNm at 4,770mBRT again while run back to inside casing at 3rd BAROLIFT sweep.
3:45	4:45	1:00	OTHER	4,779.5	Dress middle ramp at 4,771mBRT.
					Ream down w/60rpm to check the torque and observe torque increased to 25kNm.
					Stop rotation and confirm no excessive drag w/o rotation at 4,771mBRT.
					Dress middle ramp w/100rpm until torque becomes stable.
					Ream up w/60rpm x 13kNm and down w/100rpm x 16kNm three times, and confirm excessive torque is removed.
					Ream down to 4,779mBRT and up to 4,768mBRT w/60rpm to check the torque again: Okay.
4:45	8:00	3:15	C&C	4,779.5	Resume to circulate and bottoms up w/700gpm x 20.4MPa inside casing at 4,767mBRT.
					Check a few metal debris in shale shaker.
					Spot 5m3 12ppf Fracseal at 4,779mBRT.
8:00	24:00	16:00	TRIP	4,779.5	POOH 9-3/4"Tri-mill assembly to 100mBRT.
					Check 5-1/2"DP S150 stand (Stand #31 - #40) to confirm if the string at those stands backed off or not.
					Find no backed off indication.
					Dolly extend accidentally while POOH. Conduct function check and confirm dolly work correctly.
					Ditch magnet: 18.7kg (Total 20.7kg from milling CSG window)
					No loss/gain in 24hrs

Time Breakdown (00:00 - 06:00 on 3-Feb) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	1:30	1:30	TRIP	4,779.5	Continue to POOH 9-3/4"Tri-mill assembly to surface.
					Check Tri-mill gauge. All mills are "In gauge" before run (9.75", 248mm).
					Lead mill: 9.51", 242mm (0.24" under gauge), Follow mill: 9.65", 245mm (0.12" under gauge). Dress mill: 9.67", 246mm (0.08" under gauge)
					Confirm all mills are within criteria of re-run.
					Find rubber from mud bucket inside UBHO sub. However, lead tell tale shows Gyro tool landing. Suspect all down rubber after Gyro survey.
1:30	2:15	0:45	RS	4,779.5	Rig services.
2:15	6:00	3:45	TRIP	4,779.5	MU and RIH 8-1/2" kick off assembly to 62mBRT
					Check motor bearing 35.4mm (w/o slack off) and 35.3mm (w/ slack off). Adjust bent angle 1.15deg,
					Motor stabilizer OD 8-3/8".
					Check stabilizer OD 8-1/8"
					Pick up and run Telescope675 w/IWOB (S/N: G3917, 700gpm setting, 73hrs used) and 6-1/2" jar (S/N: 1760-5679, new).
					Measure the offset angle between MWD tool face and motor high side. MWD tool face 138deg counter clockwise from motor high side.
					Measure the offset angle between UBHO tool face and motor high side. UBHO tool face 44.5deg counter clockwise from motor high side.

Bit Record @24:00

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)	ROP (m/hr)	Dull Condition Inner	Outer	Dull	Loc.	B	G	O.D.	RP

BHA Record @24:00

24	Whipstock	10-3/4"Whipstock x 9-3/4"Tri-mill x 6-1/2"OD Running Tool x XO x 5.68"HWDP x XO x 6-1/2"UBHO x XO x 6-3/4"Coring DC (9) x XO x XO x 7"Coring DC (12) x XO x XO x 5.68"HDWP (12) x XO

Hook Wt. (knt) @24:00 100.0 mBRT

Hook Load	700
BHA	210
Below DC	170
below Jar	0
HPS & Traveling block	630
Hook + RRT	-
Hook block	-

Jar Rotating time 24:(S/N:

Today		Total	hrs

Cutting skip @24:00

Empty	Full	Total
51	1	52

Mud Properties @24:00

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	6rpm	Gel St. (10", 10')	API	Cake	pH	Pf	Cl-	Sand	Oil	Solid	MBC	Temp In	Temp Out	K+	n	K	LGS	FIT 20/40 (mm) 0 min	FIT 20/40 (mm) 5min
KNPP	2:00	4,779	1.39	63	25	24	8	7	14	7.4	1.1	10.0	0.1	120,700	0.20		19.0	2.25	11	8	20,900	0.48	1.91	6.40	-	-
KNPP	14:00	Pit	1.39	58	22	25	8	7	14	7.4	1.1	10.0	0.1	120,700	0.20		19.0	2.25	11		20,900	0.48	1.91	6.40	-	-

Mud Pumps : 14-P-220 5.00 gallon/stroke @97%

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min) 6.75"DC	Ann. Vel. (m/min) 5.5"DP
1	6"	0	0	0.0	0	0
2	6"	0	0			
3	6"(Booster)	0	0			

Personnel @24:00

CDEX	9
MQJ Crew	101
MWJ	15
Scientist	8
MQJ (Other)	1
Telnite	2
Oceaneering	6
SLB Cementing	2
SLB WL	3
Geoservices	6
M-I SWACO	4
SLB Underreamer	2
SLB LWD	2
SLB Seismic	3
AFGlobal	0
ENVENTURE	0
SLB DD	2
Franks	0
Gyrodata	1
Total	167

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

Item	Received	Used	Stock
Barite (Bulk)			364,500
Caustic Soda			1,050
Lime			200
Soda Ash			575
Caustic Potash			1,075
Tel-Polymer DX / L / H			640/380/0
XCD-Polymer			950
Lignate NC			4,500
Clean Lube W			8,000
Tel Clean W			4,600
Astex-S			4,400
Deformer 30C			512
Tell DD			3,200
Bi-Carbonate			1,000
Citric Acid			2,275
Tan Cal C / M / F			210 / 1,020 / 510
Telnite GXL			684
Treat-HS			9,200
Mud Seal P			130
Tel Plug C / M / F			500 / 500 / 500
Tel Stop P / G			500 / 260
Barolift (lbs)			1,935
Driscal D			0
Tel Flow P			0
Poro Seal			0
Steel Seal 50 (lbs)			1,000
KCl			0
NaCl			0
Fracseal (lbs)			0
Stopseal (lbs)			0
Bentonate(Bulk)			46,000

Geologic Information @24:00

From	To	Lithology of cuttings

Shale Shaker / Centrifuge @24:00

No.1	30, 230	No.4	30, 270	#1-#3 Centrifuge running time
No.2	30, 270	No.5	30, 270	
No.3	30, 270	No.6	30, 230	

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	338.8	80.4	92.5
Potable Water	m3	235.1	7.5	0.0
Drill Water	m3	1,110.0	8.4	0.0
Fuel	m3	3,508.5	47.2	0.0
Lube, Oil	Ltrs	69,100	0.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0
Cement "GWC"	ton	160.0	0.0	0.0
Cement "G"	ton	97.0	0.0	0.0

Mud volume@24:00

Mud Volume (m3)	
KNPP mud (1.39)	363
KNPP (12ppbFracseal)	307
KNPP (30ppbFracseal)	117
KNPP (BAROLIFT)	0
KNP mud (1.13)	327
STOPLOSS(1.37)	47
Slug	10
total	1171

Heli Information @24:00

Flt. No.	Time Arrived	Time Departed	Passenger Are.	Passenger Dept.
1	9:15	9:18	3	0
2				
3				
4				

Safety (HSE) and other information

Incident	Last Incident	No. LTA
LTA		
HUNS cards	26	

Remarks

Boat Information @24:00

Boat Name	Status	Time @Chikyu Departed	Time @Chikyu Arrived
#8 Meiji-maru			
Akatsuki	Chikyu		
Shincho-maru	Chikyu		14:35

Marine Information @24:00

Heave (m)	0.3
Pitch (deg)	0.2
Roll (deg)	0.1
Vessel Heading (deg)	270
Riser Tension (kN)	9750.0
V.D. Load (ton)	12512
Max Draught (m)	9.0
Thruster (kW)	900

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	11.0	16.7	1025.2	7.0	271	8.5	1.0	260	4.9	0.7	260	22.0

Today's Schedule: Continue to MU&RIH 8-1/2"Kick off BHA to 4,760mBRT. LWD function test. Rig up wireline equipment.

Reported by : T.Nishiyama / T.Yokoyama

Approved by : T.Saruhashi