Chikyu DAILY MORNING REPORT

Mission No. : CK18-04 **Exp. No. :** Exp 358 **Report No. :** 39

Report Date : 15/Nov/2018

Site Name: C0002 Hole Name: C0002Q Lat. 33° 18.0507'N Long. 136° 38.2029'E Seabed Depth : 1,967.5 mBRT RT-MSL : 28.5 m

Depth : @24:00 4,867.0 mBRT mbsf Progress : 0.0 m Drilling/Coring/Underreaming Hrs. : 0.00 hrs Last BOP PT: 10/25/18 Next BOP PT: 11/15/18

Depth : @06:00 4,867.0 mBRT mbsf LAST CASING : 11-3/4" x 2,922.50 mbsf(4,890.0 mBRT) Last BOP FT: 11/10/18 Next BOP FT: 11/15/18

Summary of Operation on 14-Nov : POOH Tri-Mill assembly to surface. Dress the string mill. MU and RIH 10-5/8" window mill assembly to 15mBRT. Last Glycol 35gal Inj. 11/13/18

Present Operation @ 06:00 on 15-Nov : RIH 10-5/8" window mill assembly at 2,254mBRT.

mBRT: meter below rotary table

mbsf: meter below sea floor

Time Breakdown (00:00 - 24:00 on 14-Nov)

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	4:00	4:00	TRIP	4,867.0	RIH 10-5/8" window mill assembly from 2,707mBRT to 4,894mBRT.
					Fill up every 15stds. Observe no losses/gains and no excessive drag while RIH.
					When passing BHA through top of liner (3,882.8mBRT), take slight weight from 3892.8mBRT with 20-30kN. Take weight 200kN at 3894.3mBRT.
					Pick up and overpull with 170kN. Release string at 3892mBRT.
					Attempt to pass through for 2 times, but take weight at 3,893mBRT. Pick up string and maximum over pull 350kN.
					Lower string with pumping at 200gpm x 2.7MPa. Take weight at 3,893.7mBRT. Pick up and over pull at 100kN.
					Upper string mill pass 0.6m into the small ID section of liner hanger.
					Suppose mill assembly is too stiff by long full gauge section on tow string mills. Geometry of mills does not allow pass through.
					Decide to POOH Window mill assembly.
4:00	11:00	7:00	OTHER(N)	4,867.0	POOH 10-5/8" window mill assembly from 4,894mBRT to 637mBRT
					Observe no losses/gains and no overpull while POOH.
11:00	13:00	2:00	OTHER(N)	4,867.0	Trouble shoot hydraulic leak on T-Block dolly.
					Observe leaking from T-Block dolly cylinder hose connection
					Change out to new O-ring and fittings but continue leaking when dolly functioning
13:00	16:45	3:45	OTHER(N)	4,867.0	Continue to POOH window mill assembly from 637mBRT to surface (Dolly keep extend position due to continue leaking)
					Check Mill OD - Window mill: 10-5/8" full gauge, String mill bottom: 10-5/8" full gauge, String mill top: 10-5/8" full gauge(all mills OD: 270mm)
16:45	23:15	6:30	OTHER(N)	4,867.0	Perform grinding for 10-5/8" string mill and window mill to slightly reduce OD at welding shop, both mills become 10-5/8" in gauge: OK
					Meanwhile: Conduct repair T-Block dolly cylinder leaking, adjust fitting properly then stop leaking: OK
					Service Rig: HPS, T-Block and CMC
					NSD stand building x 3stds (total: 9stds)
23:15	24:00	0:45	TRIP	4,867.0	MU and RIH 10-5/8" window mill assembly to 15mBRT. [BOP failure]
					Break circulation with 400gpm x 0.8Mpa - Blue communication CH.B
					- Blue Lower pipe ram open, minor leak
					- Blue Middle pipe ram open, minor leak
					[OBS] - Blue Inner Gas bleed open, severe leak.
					Check GPS condition, OBS transfer from supply boat, Preparing for OBS calibration - Blue UIC/Open, Leak
					- Blue Booster/Close, Leak
					[Ditch Magnet Weight] - Yellow Upper pipe ram/Open, Leak
					24hr ditch magnet weight: 0.0kg (total 90.2kg) - Yellow LIK/Open, Close malfunction
					- Yellow OGB, Open, Leak

Time Breakdown (00:00 - 06:00 on 15-Nov) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	6:00	6:00	TRIP	4,867.0	RIH 10-5/8" window mill assembly from 15mBRT to 2,254mBRT.
					Fill up every 15 stds.
					Observe no losses/gains and no excessive drag while RIH.

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 (knt) Min.	WOB (knt) Max.	rpm Min.	rpm Max.	Total Rev. (kern)	Dull Condition Inner	Outer	Dull	Loc.	B	G	O.D.	RP
	10.625	SLB	Window mill			8x20/32																	

BHA Record @24:00

#8	Window mill	10-5/8"Window mill x XO #1 x 10-5/8"String mill x 10-5/8"String mill x XO #2 x Float sub w/float x 8-1/2" Drilling DC (4 stds) x XO #3 x 5.68" HWDP (3 stds) x XO #4 x 5" DP S-140 (23 stds) x XO #5 x 5-1/2" DP S-150 (50 stds) x XO #6 x 6-5/8" DP Z-140 (22 stds) x 6-5/8" DP UD-165
#9	Window mill	10-5/8" Window mill x XO #1 x 10-5/8" String mill x XO #2 x XO #3 x 6-5/8" HWDP x XO #4 x XO #5 x Float sub w/float x 8-1/2"Drilling DC (4stds) x XO #6 x 5.68" HWDP (3 stds) x XO #7 x 5" DP S-140 (23 stds) x XO #8 x 5-1/2" DP S-150 (50 stds) x XO #9 x 6-5/8" DP Z-140 (22 stds) x 6-5/8" DP UD-165

Hook Wt. (knt) @24:00hrs 15.0 mBRT

Hook Load	606
BHA	
Below HWDP	
below Jar	-
HPS & Traveling block	600
Hook + RRT	-
Hook block	-

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	5:00	Pit	1.37	60	20	33	10	9	12	2.5	0.5	10.3	0.2	138,000	0.25		16.0	0.25	16		21,400	0.40	3.44	1.00		
KNPP	14:00	Pit	1.37	55	22	34	11	9	11	2.4	0.5	10.3	0.2	138,000	0.25		16.0	0.25	17		21,400	0.44	2.47	10.00		

Jar Rotating time S/N: -

Today - Total - hrs

Cutting skip @24:00

Empty	Full	Total
40	1	41

Mud Pumps : 14-P-220 @ 15.0 mBRT 5.00 gallon/stroke @97%

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min) DC	Ann. Vel. (m/min) DP
1	6"	80	400	0.8	42	34
2	6"(Booster)	0	0			
3	6"	0	0			

Personnel @24:00

CDEX	10
MQJ Crew	99
MQJ (SC, Other)	1
MWJ	15
Scientist	5
Telnite	2
Oceaneering	6
SLB Cementing	1
SLB WL	3
Geoservices	6
BHGE	0
M-I SWACO	4
Gyrodata	1
SLB Whipstock	2
SLB LWD	2
SLB DD	2
SLB Seismic	2
AFGlobal	2
Drillchem	1
Total	164

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

Item	Received	Used	Stock
Barite (Bulk)		7,100	654,500
Caustic Soda			1,200
Lime			200
Soda Ash			225
Caustic Potash			1,100
Tel-Polymer DX / L / H			3260/1300/0
XCD-Polymer			1,050
Lignate NC			4,500
Clean Lube W			5,000
Tel Clean W			6,400
Astex-S			5,300
Deformer 30C		32	368
Tell DD			3,200
Bi-Carbonate			1,250
Citric Acid			2,275
Tan Cal M / F / FF			1,020 / 210 / 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
Balolift		15	105
Driscal D			0
Tel Flow P			0
Poro Seal			2,310
Steel Seal 50			1,250
KCl			5,000
NaCl			18,000
Fracseal			14,500
Stopseal			8,000
Bentonate(Bulk)			46,000

ROV @24:00

Status	In water
Last Dive	11/14/18
Injection Skid	135 /135 gal

Geologic Information @24:00

From	To	Lithology of cuttings

Heli Information @24:00

Flt. No.	Time Arrived	Time Departed	Passenger Are.	Passenger Dept.
1	9:15	9:25	9	9
2	11:25	11:35	6	7
3				
4				

Shale Shaker @24:00 Centrifuge: hrs

No.1	20	No.4	20, 50 x 2ea	No.1	off
No.2	20, 50 x 2ea	No.5	20	No.2	off
No.3	20	No.6	20, 50 x 2ea	No.3	off

Safety (HSE) and other information

Incident	Last Incident	No. LTA
LTA		
HUNS cards	48	

Remarks

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	282.0	85.4	103.4
Potable Water	m3	288.0	6.0	0.0
Drill Water	m3	1,787.0	13.0	0.0
Fuel	m3	6,457.6	46.2	0.0
Lube, Oil	Ltrs	119,200	0	0
Heli Fuel	Ltrs	0.0	0.0	0.0
Cement "GWC"	ton	186.0	0.0	0.0
Cement "G"	ton	97.0	0.0	0.0

Mud volume@24:00

Mud Volume (m3)	
KNPP mud (1.33)	308
Old Mud(Contami)	359
Slug mud	15
KNPP mud (1.37)	262
total	944

Marine Information @24:00

Heave (m)	0.4
Pitch (deg)	0.4
Roll (deg)	0.1
Vessel Heading (deg)	055
Riser Tension (kN)	9500.0
V.D. Load (ton)	15482
Max Draught (m)	9.0
Thruster (kW)	1120

Boat Information @24:00

Boat Name	Status	Time @Chikyu Departed	Time @Chikyu Arrived
#8 Meiji-maru	Chikyu		
Akatsuki	Chikyu	3:00	19:40

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	16.0	21.5	1018.7	10.3	357	12.0	2.0	60	7.1	0.6	262	22.0

Today's Schedule: RIH 10-5/8" window mill assembly. BOP pressure test and function test at 3,200mBRT. Resume RIH 10-5/8" window mill assembly. Dress window.

Reported by : N. Sakurai / T. Nishiyama

Approved by : T. Saruhashi