Chikyu DAILY MORNING REPORT

Mission No. : CK18-04 **Exp. No. :** Exp 358 **Report No. :** 103

Site Name	C0002	**Hole Name**	C0002R	**Lat.**	33° 18.0507'N	**Long.**	136° 38.2029'E	Seabed Depth :	1,967.5 mBRT
RT-MSL :	28.5 m	**Report Date :**	18/Jan/2019						
Depth : @24:00	4,880.0 mBRT	2912.5 mbsf	Progress :	0.0 m	Drilling/Coring/Underreaming Hrs. :	0.00 hrs	Last BOP PT:	1/5/19	Next BOP PT: 1/26/19
Depth : @06:00	4,880.0 mBRT	2912.5 mbsf	LAST CASING :	9-5/8" x 11-3/4" ESET	x 2,847.50 mbsf(	4,815.0 mBRT)	Last BOP FT:	1/12/19	Next BOP FT: 1/19/19

Summary of Operation on **17-Jan** : Continue to work pipe at 4,816mBRT. Slip and cut. Pressure test for 9-5/8" x 11-3/4" ESET casing shoe. Circulation. Last Glycol 35gal Inj. 1/15/19

Present Operation @ 06:00 on **18-Jan** : Continue circulation and derrick inspection. Work pipe at 4,816mBRT.

mBRT: meter below rotary table

Time Breakdown (00:00 - 24:00 on **17-Jan**) mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	7:00	7:00	OTHER(N)	4,880.0	Continue to work pipe at 4,816mBRT
					Attempt to break string by Jarring x >100times, No success
					Jarring up: Cocked by 500kN(SO) then overpull 700kN(OP), after activated jar, continue overpull max 1,500kN (w/o pump)
					Jarring down: Cocked by 200kN(OP) then 600kN(SO), w/o pump
					Attempt to break free string w/70rpm x 42kNm of neutral weight, every 10times jarring.
7:00	13:00	6:00	OTHER	4,880.0	Conduct slip and cut
13:00	15:30	2:30	CSG	4,880.0	Conduct pressure test for 9-5/8" x 11-3/4" ESET casing shoe at 4,816mBRT
					Line up cement line to choke line. Flush choke line from cement unit.
					Conduct surface line test w/300psi x 5min, 1,000psi x 5min, confirm no leak.OK
					Close Lower annular(from Blue pod)
					Conduct pressure test to check shoe integrity for high flow application in high pressure stuck environment.
					#1 Test: Pressure stepping up w/0.25bpm but suddenly drop 30-40psi x 2times while pressure increase to 545psi. NG
					Suspect fluid leaking from annular by heave motion.
					Increase lower annular closing pressure from 11.4MPa to 13MPa from Blue pod
					Open additional APV x 2ea for maintain DP movement
					#2 Test: Pressure stepping up to 595psi w/0.25bpm and stop pump. Confirm hold pressure 520psi then bleed off. Pump 2bbls and return 1.9bbls.
					#3 Test: Pressure stepping up to 635psi w/0.25bpm then pressure drop suddenly, stop pump(Pump 2.3bbls).
					Until suddenly drop pressure, build up trend shows almost same trend w/ESET liner pressure test.
					Re-start pump and pressure stepping increase to 350psi and observe pressure build up trend shows reduced angle, stop pump(Pump 0.3bbls)
					Confirm no loss by return mud volume(Pumped 2.6bbls, returned 2.6bbls)
					Confirm Junk mill is out from ESET casing shoe(Casing shoe depth: 4,815mBRT) and high flow rate application is suitable.
15:30	18:30	3:00	OTHER(N)	4,880.0	Work pipe at 4,816mBRT
					Attempt to break string by Jarring x >50times w/torque on string(10-20kNm), No success
					Jarring up: Cocked by 500kN(SO) then overpull 700kN(OP), after activated jar, continue overpull max 1,500kN (w/o pump)
					Jarring down: Cocked by 200kN(OP) then 600kN(SO), w/o pump
					Attempt to break free string w/70rpm x 42kNm of neutral weight, every 10times jarring.
18:30	19:30	1:00	C&C	4,880.0	Circulation for cooling Jar and conduct derrick inspection
					Observe pressure fluctuated 6.5-12MPa and keep controlled by flow rate 200, 250, 300, 325, 350gpm
					Confirm derrick condition, OK
19:30	23:15	3:45	OTHER(N)	4,880.0	Work pipe at 4,816mBRT
					Attempt to break string by Jarring, activated only 2times by Jarring up, No success
					Observe jar malfunction, not able to activate.
					Continue to try cocked by 500kN(SO) then overpull 700kN(OP) for activate jarring up, and 200kN(OP) then 600kN(SO) for activate jarring down(w/pump)
					Pump pressure fluctuated 3.1-7.6MPa and keep controlled by flow rate 65-125gpm
					Attempt to break free string w/70rpm x 42kNm of neutral weight, every 10times jarring.
23:15	24:00	0:45	C&C	4,880.0	Circulation w/100gpm x 4-5MPa and conduct derrick inspection
					Backloading item: 67jts of 9-5/8"ESET(purchased) binding by Econo wrap. Ready for back loading
					(12:35-15:30): Advisory status due to #2 starboard side generator flow control valve maintenance
					No loss in 24hrs

Time Breakdown (00:00 - 06:00 on **18-Jan**) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	0:15	0:15	C&C	4,880.0	Continue to circulation w/100gpm x 4-5MPa and conduct derrick inspection
					Confirm derrick condition, OK
0:15	6:00	5:45	OTHER(N)	4,880.0	Work pipe at 4,816mBRT
					Work pipe without Jarring, Jar can not be fired anymore
					Try to cocked by 500kN(SO) then overpull 700kN(OP) for jarring up, and 200kN(OP) then 600kN(SO) for jarring down(w/pump)
					Pump: 100gpm x 3.6MPa

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

22	9.851" DO BHA	9.851"Junk Mill x Bit Sub w/ non ported float x XO#1 x 6-3/4" DC (4-1/2"IF 3stds) x 6-1/2" jar x 6-3/4" DC (4-1/2"IF 2jt) x XO#2 x Churchill Drift Sub x 5" DP S-140 (12stds) x 5-1/2" DP S-140 (22 stds) x XO#3 x 5-1/2" DP S-150 (70 stds) x XO#4 x 6-5/8" DP Z140 (12stds) x 6-5/8" DP UD-165

Hook Wt. (knt) @24:00 4,816.0 mBRT

Hook Load	2,851
BHA	130
Below DC	-
below Jar	120
HPS & Traveling block	620
Hook + RRT	-
Hook block	-

Jar Rotating time 2ª S/N:1760-5031

Today	0.00	Total	4.22	hrs

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	Pit	1.39	63	25	26	9	9	17	7.3	1.1	10.3	0.1	117,000	0.20		19.0	2.25	13		21,400	0.46	2.50	6.50	-	-
KNPP	13:00	Pit	1.39	63	25	28	10	9	17	7.4	1.1	10.3	0.1	117,000	0.20		19.0	2.25	13		20,900	0.45	2.70	6.50	-	-

Cutting skip @24:00

Empty	Full	Total
55	0	55

ROV @24:00

Status	Dive
Last Dive	1/14/19
Injection Skid	Dive w/135 gal skid

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"	50	250	21.0	53	42
2	6"	50	250			
3	6"(Booster)	90	450			

Personnel @24:00

CDEX	10
MQJ Crew	100
MWJ	15
Scientist	4
Telnite	2
Oceaneering	6
SLB Cementing	3
SLB WL	0
Geoservices	6
M-I SWACO	4
SLB Underreamer	2
SLB LWD	2
SLB Seismic	0
AFGlobal	2
ENVENTURE	1
SLB DD	1
Franks	2
Total	160

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

Item	Received	Used	Stock
Barite (Bulk)			384,500
Caustic Soda			1,200
Lime			200
Soda Ash			475
Caustic Potash			1,275
Tel-Polymer DX / L / H			1,560 / 1,940 / 0
XCD-Polymer			675
Lignate NC			4,500
Clean Lube W			0
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			7,000
Fracseal (lbs)			8,000
Stopseal (lbs)			0
Bentonate(Bulk)			46,000

Heli Information @24:00

Flt. No.	Time Arrived	Time Departed	Passenger Are.	Passenger Dept.
1	8:50	9:00	0	1
2				
3				
4				

Geologic Information @24:00

From	To	Lithology of cuttings

Shale Shaker / Centrifuge @24:00

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

Mud volume@24:00

Mud Volume (m3)	
KNPP mud (1.39)	433
KNPP (Fracseal)	198
KNPP (BAROLIFT)	35
KNP mud (1.33)	47
KNP mud (1.13)	165
STOPLOSS(1.37)	54
Chemical and slug	16
total	948

Safety (HSE) and other information

Incident	Last Incident	No. LTA
LTA		
HUNS cards	20	

Remarks

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	295.4	71.8	96.0
Potable Water	m3	325.4	5.5	0.0
Drill Water	m3	1,178.3	22.4	0.0
Fuel	m3	4,249.6	44.8	0.0
Lube, Oil	Ltrs	77,600	1,400.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0
Cement "GWC"	ton	161.9	24.1	0.0
Cement "G"	ton	97.0	0.0	0.0

Marine Information @24:00

Heave (m)	0.2
Pitch (deg)	0.2
Roll (deg)	0.1
Vessel Heading (deg)	290
Riser Tension (kN)	9750.0
V.D. Load (ton)	13251
Max Draught (m)	9.0
Thruster (kW)	1260

Boat Information @24:00

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

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	9.5	17.0	1017.8	13.6	300	16.9	1.4	250	4.9	0.4	230	22.0

Reported by : A. Suzuki / N.Sakurai

Today's Schedule: Continue to work pipe at 4,816mBRT. Back off and retrieving drill out assembly

Approved by : T.Saruhashi