Chikyu DAILY MORNING REPORT

Mission No. : CK18-04 **Exp. No. :** Exp 358 **Report No. :** 120

Report Date : 4/Feb/2019

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

Depth : @24:00 4,779.5 mBRT 2812.0 mbsf Progress : 0.0 m Drilling/Coring/Underreaming Hrs. : 0.00 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 3-Feb : Cont. POOH 9-3/4"Tri-mill to surface. MU & RIH 8-1/2"KO BHA to 4,779mBRT. Ream down to 4,788mBRT. Drill down to 4,788.5mBRT. Last Glycol 35gal Inj. 1/29/19

Present Operation @ 06:00 on 4-Feb : POOH to 4,590mBRT. Condition mud. RIH to 4,601mBRT.

mBRT: meter below rotary table

Time Breakdown (00:00 - 24:00 on 3-Feb) mbsf: meter below sea floor

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	22:30	20:15	TRIP	4,779.5	MU and RIH 8-1/2" kick off assembly to 4,779mBRT
					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.
					6-1/2" jar mandrel: 18"
					Fill up every 15stands.
					Conduct LWD function test at 523mBRT.
					Pump w/350gpm x 5.5MPa (NG) and w/400gpm x 6.9MPa (OK).
					Find 6-5/8 DP Z-140 #19 stand bend slightly. Rack back the same.
					Conduct LWD function test at 4,570mBRT.
					Pump with synchro mode w/400gpm x 10.2MPa (NG) , w/500gpm x 14.5MPa (NG) and w/600gpm (NG).
					Pump without synchro mode at 550gpm (MP1: 175gpm, MP2: 375gpm) x 17.0MPa (OK)
					Observe no drag when pass through window. Take weight 20kN at 4,779mBRT.
					Take survey. Sensor depth:4,759mBRT, Inc.:2.55deg, Azi.: 16.06deg (Reference only due to magnetic interference)
22:30	23:00	0:30	W&R	4,788.0	Ream down from 4,779mBRT to 4,788mBRT.
					MP: 400gpm x 10.2MPa, HPS: 30rpm x 9-13kNm.
					Attempt to take weight 50kN to check formation hardness for kick off. Take weight 50kN at 4,788mBRT (No firm formation for kick off above 4,788mBRT).
					Pick up to 4,766mBRT and reduce rotation to 20rpm x 9-12kNm.
					Ream down to 4,788mBRT again and confirm take weight 50kN at same depth 4,788mBRT.
23:00	23:45	0:45	DRL	4,788.5	Drill down from 4,788mBRT to 4,788.5mBRT for checking formation hardness.
					WOB: 5-80kN, MP: 350gpm x 8.1MPa, HPS:20rpm x 9-12kNm. Ave. ROP: 7.5m/hr.
					DD confirm formation has enough hardness for kicking off by sliding.
					Take survey. Sensor depth:4,769.29mBRT, Inc.:2.04deg, Azi.: 228.71deg (Reference only due to magnetic interference)
23:45	24:00	0:15	TRIP	4,788.5	POOH 8-1/2" kick off assembly to 4,760mBRT for condition mud to 1.35sg during wait on weather.
					Suspend rig up wireline sheave due to over 20m/s wind speed.
					(21:10-24:00) Advisory status due to over 18m/s of wind speed.
					Ditch magnet: 1.0kg (Total 21.7kg from milling CSG window)
					No loss/gain in 24hrs

Time Breakdown (00:00 - 06:00 on 4-Feb) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	1:00	1:00	TRIP	4,788.5	Continue to POOH from 4,760mBRT to 4,590mBRT for condition mud to 1.35sg during wait on weather.
					Suspend rig up wireline sheave due to over 20m/s wind speed.
1:00	1:45	0:45	C&C	4,788.5	Condition mud to 1.35sg during wait on weather.
					Circulate w/600gpm x 20MPa and 450gpm x 4.4MPa (Booster).
					Run centrifuge to remove barite.
					Observe Active tank volume (From 159m3 to 164m3) and Flow paddle (From 47% to 60%) increased.
1:45	2:45	1:00	OTHER	4,788.5	Flow check.
					Stop circulation and check trip tank.
					Observe trip tank decreased from 9.3m3 to 8.1m3 within 30min and became stable last 15min.
					Active tank volume and flow paddle got stable.
					Check all valves and tank level. No significant sign of loss and leak.
2:45	5:45	3:00	C&C	4,788.5	Resume condition mud during wait on weather.
					Circulate w/300gpm x 6.1MPa and check Active tank volume and Flow paddle.
					Increase pump rate w/550gpm x 17MPa once confirm Active volume and Flow paddle are stabilized.
					Run centrifuge and booster pump w/450gpm x 4.7MPa.
					Cold front pass the site from 03:30
					Wind speed decreased gradually, but wind direction did not change yet.
					Weather information

Time	Wind (m/s (Ave.) / m/s (Gust) / deg)	Wave (m / s / deg)	Current (knot / deg)
00:00	19.0 / 21.4 / 206	3.2 / 6.8 / 210	0.7 / 277
01:00	18.5 / 21.3 / 213	3.4 / 6.4 / 210	0.8 / 283
02:00	18.3 / 21.2 / 212	3.5 / 6.8 / 210	0.8 / 278
03:00	19.5 / 22.9 / 212	3.4 / 7.2 / 210	0.6 / 283
04:00	15.7 / 17.3 / 248	3.7 / 7.1 / 210	0.6 / 286
05:00	18.7 / 21.8 / 242	3.7 / 7.5 / 210	0.6 / 280
06:00	17.1 / 19.3 / 240	3.4 / 7.5 / 210	0.8 / 270

5:45	6:00	0:15	TRIP	4,788.5	RIH 8-1/2"Kick off BHA from 4,590mBRT to 4,601mBRT.
					Derrick wind speed became less than 20m/s from 04:50
					(00:00-06:00) Advisory status due to over 18m/s of wind speed.

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
10	8.5	Smith	FHK30ODPS	537	RG1504	3 x 16/32"	4,779.5	4,788.5	9.0	0.27	5	20	20	20	13.75	33.3								

BHA Record @24:00

25	8-1/2"Kick off	8-1/2"bit x Motor (A675XP w/1.15 bent angle) w/8-3/8"Stab. x 8-1/8"Stab. x Float sub w/non-ported float x 6-3/4"Pony NMDC x XO x Telescope675 w/IWOB x XO x 6-3/4"NMDC x 6-1/2"UBHO x XO x 6-3/4"Coring DC (3) x XO x 6-3/4"DC, 4-1/2IF (6) x 6-1/2"Jar x 6-3/4"DC, 4-1/2IF (2) x XO x 5.68"HWDP x XO

Hook Wt. (knt) @24:00 4,760.0 mBRT

Hook Load	3,000
BHA	220
Below DC	160
below Jar	120
HPS & Traveling block	630
Hook + RRT	-
Hook block	-

Jar Rotating time 24:0 S/N: 1760-5679

Today	0.85	Total	0.85	hrs

Cutting skip @24:00

Empty	Full	Total
50	0	50

ROV @24:00

Status	Diving
Last Dive	2/1/19
Injection Skid	Dive w/135 gal skid

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	58	22	23	8	7 13	7.3	1.1	10.0	0.1	120,700	0.20		19.0	2.25	10		20,900	0.47	1.88	6.40	-	-
KNPP	14:00	Pit	1.39	58	21	24	8	7 14	7.3	1.1	9.9	0.1	120,700	0.20		19.0	2.25	12		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	4.5	0	0
2	6"	0	0			
3	6"(Booster)	90	450			

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)		12,000	0
Stopseal (lbs)			0
Bentonate(Bulk)			46,000

Heli Information @24:00

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

Geologic Information @24:00

From	To	Lithology of cuttings

Shale Shaker / Centrifuge @24:00

No.1	30, 170	No.4	30, 170	#1-#3 Centrifuge running time
No.2	30, 170	No.5	30, 170	
No.3	30, 170	No.6	30, 170	

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	311.8	73.7	46.7
Potable Water	m3	277.8	5.5	48.2
Drill Water	m3	1,095.0	15.0	0.0
Fuel	m3	3,462.8	45.7	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)	393
KNPP (12ppbFracseal)	308
KNPP (30ppbFracseal)	180
KNPP (BAROLIFT)	0
KNP mud (1.13)	345
STOPLOSS(1.37)	47
Slug	10
total	1283

Safety (HSE) and other information

Incident	Last Incident	No. LTA
LTA		
HUNS cards	24	

Remarks

Boat Information @24:00

Boat Name	Status	Time @Chikyu Departed	Time @Chikyu Arrived
#8 Meiji-maru	Katsuura	20:00	
Akatsuki	Shingu	3:00	
Shincho-maru	Chikyu		

Marine Information @24:00

Heave (m)	0.3
Pitch (deg)	0.3
Roll (deg)	0.1
Vessel Heading (deg)	215
Riser Tension (kN)	9750.0
V.D. Load (ton)	12444
Max Draught (m)	9.0
Thruster (kW)	1800

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	16.4	1012.9	19.0	206	21.4	3.2	210	6.8	0.7	277	22.0

Today's Schedule: Continue to RIH 8-1/2"Kick off BHA to 4,788.5mBRT. Rig up wireline equipment. Run Gyro. Drill 8-1/2"Kick off BHA.

Reported by : T.Nishiyama / T.Yokoyama

Approved by : T.Saruhashi