Chikyu DAILY MORNING REPORT

Mission No. : CK18-04 **Exp. No. :** Exp 358 **Report No. :** 128

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 :** 12/Feb/2019

Depth : @24:00 4,901.0 mBRT 2933.5 mbsf Progress : 0.0 m Drilling/Coring/Underreaming Hrs. : 0.00 hrs Last BOP PT: 1/28/2019 Next BOP PT: 2/18/2019

Depth : @06:00 4,901.0 mBRT 2933.5 mbsf LAST CASING : 9-5/8" x 11-3/4" ESET x 2,802.50 mbsf(4,770.0 mBRT) Last BOP FT: 2/5/2019 Next BOP FT: 2/12/2019

Summary of Operation on 11-Feb : POOH fishing assy. MU SES assy. Test diverter w/ sponge ball. MU and RIH diverter assy. Wash and ream to 4,80mBRT Last Glycol 35gal Inj. 2/5/2019

Present Operation @ 06:00 on 12-Feb : POOH diverter assy at 2,771mBRT. mBRT: meter below rotary table

mbsf: meter below sea floor

Time Breakdown (00:00 - 24:00 on 11-Feb)

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	5:00	5:00	TRIP	4,901.0	Continue to POOH Fishing assembly from 1,413mBRT to surface
					Confirm fail to catch fish by overshot.
					Overshot guide bottom edge bent to inside. Minimum ID: 6-7/8" (same as fish OD)
					Observe no trace of swallow over the fish inside over guide, grapple control, grapple and A-packer.
					Measure stabilizer OD: 8-1/8" (In gauge).
					Measure fishing jar mandrel length: 17mm (same as before running).
					Measure fishing bumper sub stroke: 495mm (longer than before running 285mm, suspect mandrel sticking)
5:00	8:00	3:00	OTHER	4,901.0	Rig service.
8:00	9:30	1:30	OTHER	4,901.0	Make up side entry sub assembly.
					XO x XO x SES #1 x FOSV #1 x XO x SES #2 x FOSV #2 x 6-5/8"DP UD165
					Install 2ea of sponge ball above each FOSV.
9:30	10:30	1:00	OTHER	4,901.0	Surface test for diverter compatibility with sponge ball.
					Install 2ea of sponge ball inside drill pipe and make up diverter below the pipe.
					Pump with 500gpm x 0.9MPa continuously.
					Stop pump and pick up string. Observe mud coming out from diverter port. Confirm diverter ports are not plugged by sponge balls.
10:30	21:45	11:15	TRIP	4,901.0	RIH diverter assembly to 4,766mBRT.
					Flow check at 3,043mBRT, well static OK
					Take parameters for reaming down at 4,766mBRT
					SPP: 100, 200, 300, 400, 500, 600, 700, 800gpm x 1.6, 2.1, 3.2, 5.3, 7.6,10.1, 13.3, 17.2MPa
					Check free torque, HPS: 30rpm x 7.9kNm(w/400gpm)
					Pick up, Neutral and Slack off weight w/30rpm x 7.9kNm: 2,730kN(PU), 2,700kN(neutral), 2,680kN(SO)
					Pick up and Slack off weight w/o rotation: 2,780kN(PU), 2,650kN(SO)
21:45	23:45	2:00	W&R	4,901.0	Wash and ream down to 4,809mBRT.
					Wash down
					From 4,766mBRT to 4,806.7mBRT, w/400gpm x 5.1MPa, WOB:0-5kN (window area, no observe any excessive drag). Take weight 30kN at 4,806.7mBRT
					Ream down
					From 4,806mBRT to 4,808mBRT, ream down w/HPS:30rpm x 6-10kNm, 400gpm x 5.1MPa, WOB:0-5kN, Take weight 20-30kN at 4,809mBRT
					Attempt to pass 4,808mBRT w/various combination of parameters (w/0, 30, 60, 120, 160rpm x 100, 400, 800gpm x w/ circ., w/o circ.)
					Ream down x 29times w/HPS:15-120rpm x 9-15kNm, 100-800gpm x 1.7-17MPa, Take weight <50kN at 4,808mBRT, NG
					Wash down x 1times w/o rotation, 100gpm x 1.7MPa, Take weight 50kN at 4,809mBRT, NG
					Unable to pass 4,808mBRT by diverter assembly. Decided to POOH for change out BHA from 7" diverter to 8-1/8" overshot.
23:45	24:00	0:15	W&R	4,901.0	POOH diverter assembly from 4,808mBRT to 4,765mBRT
					Observe drag 50-100kN while PU to inside window.
					(12:50-14:00): Advisory status due to the replacement of #1 Anemometer.
					Ditch magnet: 0kg (Total 29.5kg for 8.5" hole)
					No loss/gain in 24hrs

Time Breakdown (00:00 - 06:00 on 12-Feb) * 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	4,901.0	POOH diverter assembly from 4,765mBRT to 2,771mBRT

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

27	Fishing BHA	8-1/8"OD Overshot x Fishing Bumper sub x 6-3/4" Fishing jar x XO x 8-1/8"Stab(SLB) x XO x 6-3/4"DC (4 IF) (3stds) x XO x 5.68" HWDP (3 stds) x XO
28	Diverter	7" Diverter

Hook Wt. (knt) @24:00 4,756.0 mBRT

Hook Load	2,710
BHA	-
Below HWDP	-
below Jar	-
HPS & Traveling block	630
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	1:00	Pit	1.35	59	23	24	8	7	13	6.3	1.0	10.3	0.1	114,000	0.50		18.0	2.00	12		20,900	0.45	2.26	7.00		
	18:30	Pit	1.35	59	23	24	8	7	13	6.3	1.0	10.3	0.1	114,000	0.50		18.0	2.00	12		20,900	0.46	2.06	7.00		

Jar Rotating time 24:(S/N:

Today		Total	hrs

Cutting skip @24:00

Empty	Full	Total
56	0	56

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	6
MQJ (Other)	1
Telnite	2
Oceaneering	6
SLB Cementing	2
SLB WL	3
Geoservices	6
M-I SWACO	4
SLB Underreamer	0
SLB LWD	2
SLB Seismic	3
AFGlobal	2
ENVENTURE	0
SLB DD	2
Franks	0
Gyrodata	1
Total	165

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

Item	Received	Used	Stock
Barite (Bulk)		27,000	271,000
Caustic Soda			1,050
Lime			200
Soda Ash			575
Caustic Potash			1,075
Tel-Polymer DX / L / H			2240/140/0
XCD-Polymer			1,500
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	16,000
Stopseal (lbs)			0
Bentonite(Bulk)			46,000

ROV @24:00

Status	Dive
Last Dive	2/7/2019
Injection Skid	Dive w/135 gal skid

Geologic Information @24:00

From	To	Lithology of cuttings

Heli Information @24:00

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

Shale Shaker / Centrifuge @24:00

No.1	30, 60	No.4	30, 60	#1-#3 Centrifuge running time
No.2	30,60	No.5	30, 60	
No.3	30, 60	No.6	30, 60	

Safety (HSE) and other information

Incident	Last Incident	No. LTA
LTA		
HUNS cards	36	

Remarks

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	302.0	84.9	91.8
Potable Water	m3	319.1	4.9	0.0
Drill Water	m3	981.3	26.8	0.0
Fuel	m3	3,079.7	45.8	0.0
Lube, Oil	Ltrs	64,200	1,000.0	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 (1.35)	144
KNPP (12ppbFracseal)	300
KNPP (30ppbFracseal)	208
KNPP mud (1.39)	342
KNP mud (1.13)	104
STOPLOSS(1.37)	47
Slug	16
total	1161

Marine Information @24:00

Heave (m)	0.3
Pitch (deg)	0.2
Roll (deg)	0.2
Vessel Heading (deg)	330
Riser Tension (kN)	9600.0
V.D. Load (ton)	12115
Max Draught (m)	9.0
Thruster (kW)	1050

Boat Information @24:00

Boat Name	Status	Time @Chikyu Departed	Time @Chikyu Arrived
#8 Meiji-maru	Chikyu		
Akatsuki	Chikyu		
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	10.0	18.6	1025.0	13.0	300	14.2	1.4	30	4.8	1.2	223	22.0

Today's Schedule: Continue to POOH diverter assembly. RIH overshot assembly for plug back cementing.

Reported by : N.Sakurai / T.Nishiyama

Approved by : T.Saruhashi