

Chikyu DAILY MORNING REPORT

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

Report No. : **124**

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 : **8/Feb/2019**

Depth : @24:00 **4,865.0** mBRT **2897.5** mbsf Progress : **47.5** m Drilling/Coring/Underreaming Hrs. : **21.75** hrs Last BOP PT : **1/28/2019** Next BOP PT : **2/18/2019**

Depth : @06:00 **4,881.0** mBRT **2913.5** mbsf LAST CASING : **8.58" x 11.314" ESET** **2,802.50** mbsf (**4,770.0** mBRT) Last BOP PT : **2/5/2019** Next BOP PT : **2/16/2019**

Summary of Operation on **7-Feb** : Cont. drill 8-1/2" hole with RSS/Clink/Motor to 4.865mBRT. Conduct down link. Take survey.
Present Operation @06:00 on **8-Feb** : Take survey at 4.881mBRT.

Time Breakdown (00:00 - 24:00) on **7-Feb**

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	1:45	1:45	DRL	4,822.0	Drill down from 4.817.5mBRT to 4.822mBRT. WOB: 60-70kN, HPS:30rpm x 11 -12kNm, MP: 550gpm x 24-25MPa.
1:45	2:00	0:15	OTHER	4,822.0	Conduct down link at 4.822mBRT to change transmit rate from 8bps to 6bps.
2:00	4:15	2:15	DRL	4,827.0	Resume drilling down from 4.822mBRT to 4.827mBRT. WOB: 70-80kN, Rotation: 194rpm (HPS:60rpm, Motor:134rpm) x 11 -13kNm, MP: 500gpm x 20-21MPa.
4:15	4:30	0:15	OTHER	4,827.0	Take survey at 4.827mBRT. Sensor depth 4.786.063mBRT, Inclination: 1.61deg, Azimuth: 256.75deg (Observe magnetic interference)
4:30	8:30	4:00	DRL	4,836.0	Resume drilling down from 4.827mBRT to 4.836mBRT. WOB: 80-100kN, Rotation: 194rpm (HPS:60rpm, Motor:134rpm) x 11 -13kNm, MP: 500gpm x 21-22MPa. Increase rotation from 30rpm after all stabilizer are out from casing window
8:30	8:45	0:15	OTHER	4,836.0	Take survey at 4.836mBRT. Sensor depth 4.794.506mBRT, Inclination: 0.80deg, Azimuth: 37.26deg (Observe magnetic interference).
8:45	12:45	4:00	DRL	4,845.0	Resume drilling down from 4.836mBRT to 4.845mBRT. WOB: 100-120kN, Rotation: 200-207rpm (HPS:60rpm, Motor: 140-147rpm) x 11 -13kNm, MP: 525-550gpm x 23-25MPa.
12:45	13:15	0:30	OTHER	4,845.0	Take survey at 4.845mBRT. Sensor depth 4.804.29mBRT, Inclination: 0.81deg, Azimuth: 29.65deg (Observe magnetic interference).
13:15	16:30	3:15	DRL	4,850.7	Resume drilling down from 4.845mBRT to 4.850.7mBRT. WOB: 100-120kN, Rotation: 194-214rpm (HPS:60rpm, Motor: 134-154rpm) x 12 -13.6kNm, MP: 500-575gpm x 21-26MPa. Conduct downlink while drilling, change frequency from 3Hz to 10.5Hz. Find error message on the LWD system screen then reboot system. OK
16:30	17:00	0:30	OTHER	4,850.7	Take survey at 4.850.7mBRT. Sensor depth 4.809.675mBRT, Inclination: 1.10deg, Azimuth: 31.96deg (Observe magnetic interference).
17:00	21:45	4:45	DRL	4,861.0	Resume drilling down from 4.850.7mBRT to 4.861mBRT. WOB: 110-150kN, Rotation: 207rpm (HPS:60rpm, Motor: 147rpm) x 10 -15kNm, MP: 550gpm x 24-25MPa. Check downhole WOB by bit off bottom (0kN) and slack off (150kN)
21:45	22:15	0:30	OTHER	4,861.0	Take survey at 4.861mBRT. Sensor depth 4.820.42mBRT, Inclination: 1.32deg, Azimuth: 52.44deg (Observe magnetic interference).
22:15	24:00	1:45	DRL	4,865.0	Resume drilling down from 4.861mBRT to 4.865mBRT. WOB: 120-160kN, Rotation: 209rpm (HPS:60rpm, Motor: 149rpm) x 10 -16kNm, MP: 555gpm x 25-26MPa
Average ROP in 24 hour: 2.27m/hr					
Resistivity increase from 4.837mBRT. Suspect drilling new flesh hole from 4.837mBRT.					
(0:00-24:00) Reduce Mud weight from 1.38sg to 1.35sg heavy. Run centrifuge #1 and #2					
Perform Airgun shoot while every DP connection					
Ditch magnet: 14kg (Total 22.5kg for 8.5" hole)					
No loss/gain in 24hrs. Boost riser 450gpm x 4.7MPa					

Time Breakdown (00:00 - 06:00) on **8-Feb** * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	2:15	2:15	DRL	4,871.0	Continue to drill down from 4.865mBRT to 4.871mBRT. WOB: 120-160kN, Rotation: 209rpm (HPS:60rpm, Motor: 149rpm) x 10 -16kNm, MP: 555gpm x 24-26MPa.
2:15	2:30	0:15	OTHER	4,871.0	Take survey at 4.861mBRT. Sensor depth 4.829.97mBRT, Inclination: 1.42deg, Azimuth: 56.81deg (Observe magnetic interference).
2:30	5:45	3:15	DRL	4,881.0	Resume drilling down from 4.861mBRT to 4.881mBRT. WOB: 120-160kN, Rotation: 207rpm (HPS:60rpm, Motor: 147rpm) x 10 -16kNm, MP: 550gpm x 24-26MPa
5:45	6:00	0:15	OTHER	4,881.0	Take survey at 4.881mBRT. Sensor depth 4.839.14mBRT, Inclination: 0.58deg, Azimuth: 348.19deg (Observe magnetic interference).
Average ROP in 6hour : 2.91m/hr					
No drilling break observed.					
(0:00-2:00) Continue to reduce Mud weight from 1.35sg heavy to 1.35sg. Run centrifuge #2					

Bit Record @24:00

Bit No.	Size (in)	MFR	Type	IADC Code	S.No.	Nozzles	Depth (mBRT)	Meter-age	Hrs.	WOB (kN)	rpm	Total Rev. (krev)	ROP (m/hr)	Inner	Outer	Dull	Loc.	B	G	O.D.	RP
11	8.5	Smith	x2716	M323	QF3395	441032, 341102	4,788.5 - 4,865.0	76.5	28.29	0 - 160	116 - 214	316.54	2.7								

BHA Record @24:00

26 8-1/2" LWD x Coe675 x Lower C-Link675 x XO x Filter sub x 675ERT850 mud motor x Float sub with non-ported float x Upper C-Link675 x MicroScope675 x ARC-6 x TeleScope675 x SonicScope675 x seismicVision675 x XO x XO x 6-3/4" DC (4IF) (3 stds) x XO x 6-3/4" DC (2 stds) x 6-1/2" Jar x 6-3/4" DC (2 Jts) x XO x 5.68" HWDP (3 stds) x XO

Mud Properties @24:00

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	6rpm	Gel St (10', 10')	API	Cake	pH	PI	Cl	Sand	Oil	Solid	MBC	Temp In	Temp Out	K+	n	K	LGS	Fit 20/40 (mm)
KNPP	1:30	4,821	1.38	59	24	24	8	7 - 14	6.8	1.0	10.8	0.1	117,000	0.50	18.0	2.00	12	10	20,300	0.48	1.91	5.40	19	Over
KNPP	18:00	4,852	1.36	58	22	24	8	7 - 14	6.5	1.0	10.8	0.1	117,000	0.50	18.0	2.00	13	11	20,300	0.50	1.57	6.80	18	94
KNPP	22:30																							14 : 115

Mud Pumps - 14-P-220 5.00 gallons/stroke @97% Personnel @24:00

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"	55	275		5.57DF
2	6"	55	275	25.3	82
3	6"(Booster)	90	450		61

Geologic Information @24:00

From	To	Lithology of cuttings
4,810	4,855	Silly-Claystone:75-90%, Claystone: 10-15%, Sandstone: 0-5%, CMT: 0-10%

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	#1: 10hr, #2: 11.6hr

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	307.8	78.2	93.5
Potable Water	m3	299.1	4.2	0.0
Drill Water	m3	1,038.6	8.3	0.0
Fuel	m3	3,269.6	49.4	0.0
Lube Oil	Ltrs	66,700	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)	Item	Received	Used	Stock
161	KNPP mud (1.38)		14,000	318,000
297	KNPP (12ppm)Fraceal			1,050
118	KNPP (30ppm)Fraceal			200
310	KNPP mud (1.39)			575
263	KNP mud (1.13)			1,075
47	STOPLOSS(1.37)			300/260/0
16	Slug			50
1212	total			775

Boat Information @24:00

Boat Name	Status	Time @Chikyu
#8 Meiji-maru	KB-01B	Departed
Akatsuki	Shingu	03:00
Shincho-maru	Chikyu	

Weather Information

Time	Weather	Temp. (degC)	Barometer	Wind	Wave	Current	Visibility
24:00	r	16.0	1013.4	10.4 ; 318 ; 11.6	1.5 ; 240 ; 5.6	0.7 ; 252	22.0

Today's Schedule: Cont. drill 8-1/2" hole with RSS/Clink/Motor.

Survey data (Depth: Telescope sensor depth)

Depth (mBRT)	Inc (deg)	Azi (deg)
4,786.06	1.61	256.75*
4,794.51	0.80	37.26*
4,804.29	0.81	29.65*
4,809.68	1.10	31.96*
4,820.42	1.32	52.44*

Survey data (Depth: Telescope sensor depth)

Depth (mBRT)	Inc (deg)	Azi (deg)
4829.97	1.42	56.81
4,839.14	0.58	348.19*

Hook Wt. (knt) @24:00 4,865.0 mBRT

Hook Load	2,620
BHA	290
Below HWDP	235
below Jar	215
HPS & Traveling block	630
Hook + RRT	-
Hook block	-
Jar Rotating time 24/S/N:	1760-5556
Today	22.50
Total	33.33

Cutting skip @24:00

Empty	Full	Total
36	1	37

ROV @24:00

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

Heli Information @24:00

Flt.	Time	Passenger
No.	Arrived	Departed
1	09:15	09:25
2	11:25	11:35
3	13:35	13:40
4		

Safety (HSE) and other information

Incident	Last Incident	No. LTA
LTA		
HUNS cards	36	

Remarks

Marine Information @24:00

Heave (m)	0.3
Pitch (deg)	0.2
Roll (deg)	0.1
Vessel Heading (deg)	325
Riser Tension (kN)	9750.0
V.D. Load (ton)	12174
Max Draught (m)	9.0
Thruster (kW)	1300

Reported by : N.Sakurai / T.Nishiyama
Approved by : T.Sarushashi