

Chikyu DAILY MORNING REPORT

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

Report No. : **57**

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 Report Date : **3/Dec/2018**
 Depth : @24:00 **4,992.0** mBRT **3024.5** mbsf Progress : **2.0 (30.0)** m Drilling/Coring/Underreaming Hrs. : **24.00** hrs Last BOP PT: **11/15/2018** Next BOP PT: **12/6/2018**
 Depth : @06:00 **5,000.0** mBRT **3032.5** mbsf LAST CASING : **11-3/4"** x **2,922.50** mbsf (4,890.0 mBRT) Last BOP FT: **11/29/2018** Next BOP FT: **12/6/2018**
 Summary of Operation on **2-Dec** : Open 8-1/2" to 12-1/4" hole from 4,960mBRT to 4,990mBRT. Drill 8-1/2" x 12-1/4" hole from 4,990mBRT to 4,992mBRT. Last Glycol 35gal Inj. **11/27/2018**
 Present Operation @ 06:00 on **3-Dec** : Drill 8-1/2" x 12-1/4" hole to 4,995mBRT. Take survey. Cont. Drill 8-1/2" x 12-1/4" hole to 5000mBRT. mBRT: meter below rotary table
 Time Breakdown (00:00 - 24:00 on **2-Dec**) mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	11:30	11:30	OH	4,990.0	Open 8-1/2" to 12-1/4" hole from 4,960mBRT to 4,975.5mBRT. WOB: 85-100kN, HPS: 90rpm x 16-28kN, MP: 600gpm x 19.6MPa, Downhole WOB: 30-70kN, Downhole torque: 1.5-3.5kNm, ECD 1.424-1.434sg Ave. ROP 1.5 m/hr, Max. 2.1 m/hr, min. ROP 1.1 m/hr (04:00-04:15) Calibrate DWOB and Torque. (04:15-05:00) NSD connection. (04:45-07:15) Stop Mud pump #3 (Booster line) due to #3 liner leak and replace liner. Pump 3m3 12ppb fracseal at 7:15
11:30	13:00	1:30	OH	4,990.0	Open 8-1/2" to 12-1/4" hole from 4,975.5mBRT to 4,977.5mBRT. WOB: 75-105kN, HPS: 100rpm x 16-27kN, MP: 600gpm x 19.2MPa, Downhole WOB: 30-50kN, Downhole torque: 1.2-2.2kNm, ECD 1.418-1.422sg Ave. ROP 1.33 m/hr
13:00	18:00	5:00	OH	4,990.0	Open 8-1/2" to 12-1/4" hole from 4,977.5mBRT to 4,983mBRT. WOB: 80-110kN, HPS: 90-100rpm x 17-28kN, MP: 600gpm x 19.6MPa, Downhole WOB: 15-55kN, Downhole torque: 1.5-3.0kNm, ECD 1.422-1.425sg Ave. ROP 1.1 m/hr
18:00	21:00	3:00	OH	4,990.0	Open 8-1/2" to 12-1/4" hole from 4,983mBRT to 4,986mBRT. WOB: 80-100kN, HPS: 110rpm x 18-32kN, MP: 600gpm x 19.5MPa, Downhole WOB: 20-55kN, Downhole torque: 1.5-2.5kNm, ECD 1.418-1.424sg Ave. ROP 1.0 m/hr Take survey twice at 4,980mBRT (bit depth). Observe deviation from survey data taken with 8-1/2" kick off BHA.
Survey data (Depth: Telescope sensor depth)					
#	Depth (mBRT)	Inc (deg)	Azi (deg)		
1	4,967.824	4.18	57.04		
2	4,968.199	4.12	57.26		
21:00	23:15	2:15	OH	4,990.0	Open 8-1/2" to 12-1/4" hole from 4,983mBRT to 4,990mBRT. WOB: 80-100kN, HPS: 110rpm x 18-24kN, MP: 600gpm x 19.2MPa, Downhole WOB: 25-50kN, Downhole torque: 1.5kNm, ECD 1.422-1.424sg Ave. ROP 3.3 m/hr Discuss forward plan with onshore support team. Decision make to drill to 4,995mBRT and take survey at 4,920-4,950mBRT to confirm well trajectory.
23:15	0:00	0:45	DRL	4,992.0	Drill 8-1/2" x 12-1/4" hole from 4,990mBRT to 4,992mBRT. WOB: 100-110kN, HPS: 110rpm x 18-27kN, MP: 600gpm x 19.2MPa, Downhole WOB: 40-70kN, Downhole torque: 1.5kNm, ECD 1.422-1.424sg Ave. ROP 2.7 m/hr Max. ROP: 2.86 m/hr at 4,961.5mBRT, min ROP: 0.71 m/hr at 4,986mBRT. Offline Activities - Clean thread and install O-ring to 9-5/8"ESET. - Recover Fracseal from cuttings at cuttings settling tank area. - Function and fit test of casing handling tool w/9-5/8"ESET at Aux. well. Ditch magnet: 2.5kg (Total 147.3kg)

Time Breakdown (00:00 - 06:00 on **3-Dec**) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	1:00	1:00	DRL	4,995.0	Drill 8-1/2" x 12-1/4" hole from 4,992mBRT to 4,995mBRT. WOB: 100-110kN, HPS: 110rpm x 17-27kN, MP: 600gpm x 19.2MPa, Downhole WOB: 45-70kN, Downhole torque: 1.5-2.5kNm, ECD 1.422-1.427sg Ave. ROP 3.0 m/hr
1:00	1:45	0:45	W&R	4,995.0	Ream up to 4,961mBRT. HPS: 60rpm x 15.5-22kNm, MP: 600gpm x 19.3MPa. Observe no excess drag.
1:45	3:30	1:45	TRIP	4,995.0	Take survey every 5m from 4,961mBRT to 4,931mBRT. Observe torque increase to 27kNm at 4,952mBRT, 34kNm at 4,946.5mBRT, 34kNm at 4,944.5mBRT & 4,943mBRT w/60rpm while ream up to survey points.
3:30	4:15	0:45	TRIP	4,995.0	Ream up to 4,910mBRT and run back to 4,995mBRT. Observe no excess drag while ream up to 4,910mBRT. Observe 100-150kN drag while run back w/o pumping to 4,995mBRT. Start pumping w/150gpm to prevent plug nozzels from 4,966mBRT. Taking weight of 300kN at 4,969mBRT, and start rotation w/60rpm x 13-16kNm to 4,995mBRT
4:15	6:00	1:45	DRL	5,000.0	Drill 8-1/2" x 12-1/4" hole from 4,995mBRT to 5000mBRT. WOB: 100-125kN, HPS: 110rpm x 16.5-32kN, MP: 600gpm x 20.3MPa. Downhole WOB: 40-70kN, Downhole torque: 2.5-3.5kNm, ECD 1.424-1.432sg Ave. ROP 2.85 m/hr

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)	Dull Condition								
							From	To			Min.	Max.	Min.	Max.			Inner	Outer	Dull	Loc.	B	G	O.D.	RP	
RR4b	8.5	Smith	veblade X816	M323	QF3233	3x12/32, 3x13/32	4,990.0	4,992.0	2.0	0.96	100	110	110	110	6.4	2.1									
RR4c	8.5 x 12.25	Dnlistar	Z-Reamer50	NA	52763	1x 7/32, 2x 8/32	4894.00	4,992.00	98.0	60.39	75	110	90	110	301.5	1.6									

BHA Record @24:00
 #13 8.5"x12.25" 8-1/2" Bit x Bit sub w/non-ported x XO x arcVision675 x Telescope675 x XO x 8-1/4" Stabilizer x 6-3/4"DC (1) x Z-Reamer x Float sub w/non-ported float x 6-3/4"DC (1) x XO x 6-3/4"DC (3) x XO x 8-1/2"DC (3) x 8"Jar x 8-1/2"DC (3) x XO x 5.88"HWDP (3sds) x XO

Mud Properties @24:00

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	6rpm	30rpm	St. Gel (10 ³ , 10 ²)	API	Cake	pH	PF	Cl-	Sand	Oil	Solid	MBC	Temp In	Temp Out	K+	n	K	LGS	FIT 20/40 (mm) 0 min	5 min
KNPP	3:00	4,966	1.37	66	25	36	13	13	18	3.5	0.7	9.8	0.1	138,000	0.80	17.0	1.25	11	8	22,000	0.40	4.12	3.00	17	70	
KNPP	14:00	4,978	1.37	65	25	36	13	13	19	3.5	0.7	10.2	0.1	138,000	0.90	17.0	1.25	11	8	22,000	0.40	4.12	3.00	16	68	

Personnel @24:00

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	DC	DP
1	6"	60	300				
2	6"	60	300	19.2			
3	6"(Booster)	90	450		79	63	

Geologic Information @24:00

From	To	Lithology of cuttings

Shale Shaker @24:00

No.	Line	Size	No.	Line	Size	No.	Line	Size
No.1	30.50	x 2ea	No.4	20.80	x 2ea	No.1	off	
No.2	20.50	x 2ea	No.5	30.50	x 2ea	No.2	off	
No.3	30.80	x 2ea	No.6	20.50	x 2ea	No.3	off	

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	266.0	77.0	0.0
Potable Water	m3	266.4	8.0	0.0
Drill Water	m3	1,730.0	28.9	100.9
Fuel	m3	6,506.1	52.5	0.0
Lube, Oil	Ltrs	107,000	600.0	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

Boat Information @24:00

Boat Name	Status	Time @Chikyu
#8 Meiji-maru	Chikyu	11:00
Akatsuki	Chikyu	
Shincho-maru	Shingu	

Weather Information

Time	Weather	Temp. (degC)		Barometer (hPa)	Wind Speed (m/s)	Dir. (deg)	Gust (m/s)	Wave			Current		Visibility (km)
		Air	SW					Height (m)	Dir. (deg)	Period (s)	Speed(knt)	Dir. (deg)	
24:00	r	19.0	20.2	1028.0	5.0	122	5.6	1.5	40	5.9	0.3	120	22.0

Today's Schedule: Cont. Drill 8-1/2"x12-1/4" hole to 5,667.5mBRT.

Hook Wt. (knt) @24:00 4,992.0 mBRT

Item	Weight (knt)
Hook Load	3,030
BHA	360
Below HWDP	290
Below Jar	230
HPS & Traveling block	620
Hook + RRT	-
Hook block	-

Jar Rotating time 24S/N: 1762-5074

Today	Total
60.39	83.39

Cutting skip @24:00

Empty	Full	Total
36	4	40

Hull Information @24:00

Fit.	Time	Passenger
No.	Arrived	Departed
1	09:09	09:19
2		
3		
4		

Safety (HSE) and other information

Incident	Last Incident	No. LTA

LTA

HUNS cards	30
Remarks	Perform weekly safety fire drill at 10am.

Marine Information @24:00

Heave (m)	0.2
Pitch (deg)	0.1
Roll (deg)	0.1
Vessel Heading (deg)	045
Riser Tension (kN)	9600.0
V.D. Load (ton)	15295
Max Draught (m)	9.0
Thruster (kW)	550

Reported by : A. Suzuki / T. Yokoyama
 Approved by : T. Ikawa