

Chikyu DAILY MORNING REPORT

Mission No. : **CK18-04**

Exp. No. : **Exp 358**

Report No. : **52**

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	28/Nov/2018
Depth	@24:00	4,990.0 mBRT	3022.5 mbsf	Progress	0.0 m	Drilling/Coring/Underreaming	Hrs. 0.00	hrs	Last BOP PT:	11/15/18	Next BOP PT:	12/6/18	
Depth	@06:00	4,990.0 mBRT	3022.5 mbsf	LAST CASING	11-3/4"	x	2,922.60 mbsf	4,890.0 mBRT	Last BOP FT:	11/22/18	Next BOP FT:	11/29/18	
Summary of Operation on 27-Nov : POOH hole opening assembly from 336mBRT to surface. RIH hole opening assembly from surface to 4,520mBRT.													
Present Operator @ 06:00 on 28-Nov : Cont. RIH to 4.845mBRT. LWD function test. Wash and ream down to 4,897.5mBRT.													
Time Breakdown (00:00 - 24:00 on 27-Nov)													

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	5:00	5:00	TRIP	4,990.0	Continue POOH 8-1/2" x 12-1/4" hole opening assembly from 336mBRT to surface. Measure jar mandrel length: 20-3/4"(same as before RIH) Check 8-1/4" Stabilizer OD: 8-1/4"(same as before RIH). No damage or worn Find Free rotating torque: 60/100/120rpm x 7.9/10.1/10.67kNm Check Bit condition: Plugged all nozzles. Dull condition same as before RIH Check LWD tool: arcVision, Telescope condition OK
5:00	5:30	0:30	RS	4,990.0	Rig service, Grease up HPS
5:30	6:15	0:45	OTHER	4,990.0	Prepare for UR function test Meanwhile: Remove fine sand from plugged bit nozzle(clay stone: check by geologist)
6:15	8:15	2:00	OTHER	4,990.0	Function test of Z-Reamer. Wrap tapes onto the cutter blocks and bottom nozzle. Lower Z-Reamer below the diverter, and pump w/400gpm x 3.3MPa and 500gpm x 5.0MPa. Pick up and confirm tapes are not broken: Z-Reamer is not activated. Lay out Z-Reamer.
8:15	12:30	4:15	TRIP	4,990.0	MU and RIH 8-1/2"x12-1/4" hole opening assembly to 527mBRT. Make up arcVISION x Telescope. Install non-ported float valve at bit sub and float sub above Z-Reamer. Stabilizer gauge: 8-1/4" Jar mandrel length: 20-3/4"
12:30	13:15	0:45	TRIP	4,990.0	Conduct LWD function test at 527mBRT. Observe good signal from MLWD. Confirm tool functioning.
13:15	0:00	10:45	TRIP	4,990.0	RIH 8-1/2"x12-1/4" hole opening assembly from 527mBRT to 4,520mBRT. Fill up every 15stds w/clean mud. 20:45-21:45 Record parameters at 3,869mBRT before entering 11-3/4" liner. Free rotating torque: 60/100/120rpm x 8.5/10.8/11.4kNm Pick up weight 2,445kN. Slack off weight 2,355kN. Downhole torque: 60rpm x 1.22kNm w/ 450gpm x 10.7MPa Observe no drag when passing through 11-3/4" liner hanger.

From	To	Hrs.	Code	Depth(mBRT)	Detail of Operation
0:00	1:45	1:45	TRIP	4,990.0	RIH 8-1/2"x12-1/4" hole opening assembly from 4,520mBRT to 4,845mBRT. Fill up string. Take SCR. MP#1: 100-150-200gpm x 450-500-590psi, MP#3: 100-150-200gpm x 400-490-590psi.
1:45	2:15	0:30	TRIP	4,990.0	Conduct LWD function test at 4,845mBRT. Confirm LWD function w/450gpm x 12.2MPa by synchronizing MP#1&3. Calibrate downhole torque and WOB.
2:15	2:30	0:15	W&R	4,990.0	Wash down from 4,845mBRT to 4,869mBRT. WOB: 0-80kN, MP: 450gpm x 12.2MPa. Observe taking weight of 70kN at 4,864mBRT and 80kN at 4,970mBRT.
2:30	6:00	3:30	W&R	4,990.0	Ream down from 4,869mBRT to 4,897.5mBRT. WOB: 0-60kN, HPS: 5rpm x 7.5-8.5kNm, MP: 450-500-550gpm x 12.2-14.4-19.0MPa. Observe taking weight of 110kN at 4,873.5mBRT (Stabilizer at the top of window and the depth resistivity changes) and HPS stall. Increase HPS speed to 10-20-40rpm. Observe HPS stall many times, but pressure does not increase. Increase HPS speed to 60rpm and string pass through 4,873.5mBRT. Wipe the string before connection and reduce HPS speed to 20rpm after connection. Continue ream down w/20rpm x 12.0-20.0kN and 500gpm x 14.0MPa. Trip #5 shale shaker and recover same.

Bit No.	Size (in)	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mBRT)	Meter-age	Hrs.	WOB (knt)	rpm	Total Rev. (kcm)	Dull Condition							
							From	To		Min.	Max.	Min.	Max.	Inner	Outer	Dull	B	G	O.D.	RP
RR4a	8.5	Smith	twoblade X616	M323	QF3233	3x12/32, 3x13/32	-	-	19.75	-	-	66.20	1	4	PN(6)	S	-	I	CT	PP
RR4b	8.5	Smith	twoblade X616	M323	QF3233	3x12/32, 3x13/32	-	-	-	-	-	-	-	-	-	-	-	-	-	-

#	Size	Type	Description	Hook Wt. (knt) @24:00	4,520.0 mBRT
#12	8.5"x12.25"	8-1/2" Bit sub x arcVision675 x Telescope675 x XO x 8-1/4" Stabilizer x 6-3/4"DC (1) x Z-Reamer x Float sub w/ported float x 6-3/4"DC (11) x XO x 6-3/4" Coring DC (3) x XO x 8-1/2"DC (3) x 8" Jar x 8-1/2"DC (3) x XO x 5.68"HWDP (3stds) x XO		2,740	
#13	8.5"x12.25"	8-1/2" 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 (11) x XO x 6-3/4" Coring DC (3) x XO x 8-1/2"DC (3) x 8" Jar x 8-1/2"DC (3) x XO x 5.68"HWDP (3stds) x XO		360	

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/Out)	K+	n	K	LGS	FIT 20/40 (mm) 0 min / 5 min	
KNPP	5:00	Pit	1.37	59	24	34	12	10	14	2.9	0.6	10.0	0.2	138.00	0.60	17.0	0.75	13	20,900	0.42	3.16	3.00	20	78
KNPP	14:30	Pit	1.37	58	21	33	11	10	14	2.9	0.6	10.0	0.2	138.00	0.60	17.0	0.75	15	20,900	0.42	3.16	3.00	23	98

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	DC	DP
1	6"	45	225				
2	6"(Booster)	0	0	10.7		48	38
3	6"	45	225				

Item	Unit	Stock	Used	Received
Fresh Water	m3	294.5	89.6	102.8
Potable Water	m3	304.0	5.2	0.0
Drill Water	m3	1,714.0	16.0	0.0
Fuel	m3	6,459.6	44.3	0.0
Lube, Oil	Ltrs	110,800	0.0	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

Item	Received	Used	Stock
Barite (Bulk)		2,500	633,500
Caustic Soda			1,200
Lime			200
Soda Ash			1,825
Caustic Potash			2,600
Tel-Polymer DX / L / H			3780/2000/0
XCD-Polymer			1,925
Lignite NC			4,500
Clean Lube W			9,000
Tel Clean W			6,400
Astex-S			5,300
Deformer 30C			368
Tell DD			3,200
Bi-Carbonate			1,250
Citric Acid			2,275
Tan Cal M / F / FF			1,020 / 210 / 510
Telinite GXL			684
Treat-HS			9,200
Mud Seal P			130
Tel Plug C / M / F			500 / 500 / 500
Tel Stop P / G			500 / 260
Balofit			105
Driscall D			0
Tel Flow P			2,310
Poro Seal			4,750
Steel Seal 50			11,000
KCl			28,000
NaCl			7,000
Fraceal			8,000
Stopseal			4,000
Bentonate(Bulk)			8,000

Item	Unit	Stock	Used	Received
KNPP mud (1.33)				13
KNPP mud (1.37)				522
Slug mud				4
total				539

Boat Name	Status	Time @Chikyu
#8 Meiji-maru	NE 5mile	Departed / Arrived
Akatsuki	Chikyu	
Shincho-maru	Chikyu	

Time	Weather	Temp. (degC)	Barometer	Wind	Wave	Current	Visibility
		Air / SW	(hPa)	Speed (m/s) / Dir. (deg) / Gust (m/s)	Height (m) / Dir. (deg) / Period (s)	Speed(knt) / Dir. (deg)	(km)
24:00	c	19.0 / 20.4	1022.1	4.5 / 210 / 5.6	1.1 / 120 / 6.7	0.3 / 206	22.0

Today's Schedule: Take survey. Cont. ream down to 4,990mBRT. Hole opening to 4,949.5mBRT. Circulation and bottoms up.

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