

Chikyū DAILY MORNING REPORT

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

Report No. : **102**

Site Name	C0002	Hole Name	C0002R	Lat.	33° 18.0507'N	Long.	136° 38.2029'E	Seabed Depth :	1,967.5 mBRT	RT-MSL :	28.5 m	Report Date :	17/Jan/2019	
Depth :	@24:00	4,880.0	mBRT	2912.5	mbsf	Progress :	0.0	m	Drilling/Coring/Underreaming	Hrs. :	0.00	hrs	Last BOP PT :	1/5/19
Depth :	@06:00	4,880.0	mBRT	2912.5	mbsf	LAST CASING :	9.85" x 11-3/4" ESET	x	2,850.50	mbsf	4,818.0	mBRT	Last BOP FT :	1/12/19
Summary of Operation on 16-Jan : Continue to RIH 9.851" drill out cement assembly. Drill out shoe. PU to liner top. Continue Drill out shoe. Work pipe.														
Present Operation @ 06:00 on 17-Jan : Continue work pipe.														
Time Breakdown (00:00 - 24:00 on 16-Jan)														

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	4:45	4:45	TRIP	4,880.0	Continue to RIH 9.851" drill out cement assembly from 2,851mBRT to 4,594mBRT. Fill the string every 15 stands. Boost riser at 450gpm x 4.1MPa At 4,594mBRT, conduct break circulation 150gpm x 3.2MPa then open CMC
4:45	6:30	1:45	TRIP	4,880.0	Continue to RIH 9.851" drill out cement assembly from 4,594mBRT to 4,791mBRT. Check Parameter: HK:2,580kN(down)/ 2,700kN(up) Wash down from 4,594mBRT w/no rotation and pump 150gpm x 2.9MPa. Tag w/20-30kN at 4604mBRT(at MSL) Lowering down from 4,594mBRT w/rotation 5rpm x 3-4kNm and pump 150gpm x 2.9MPa. Confirm pass liner top w/max 50kN. OK Continue Lowering w/5rpm x 3-4kNm and 150gpm x 2.9MPa. Observe BHA pass 11-3/4" window depth(4,757 to 4,762mBRT) smoothly, OK
6:30	8:00	1:30	CSG	4,880.0	Drill out 9-5/8" x 11-3/4" ESET casing shoe From 4,791mBRT to 4,815mBRT w/150gpm x 3.2MPa, 5rpm x 4-7kNm. Tag w/20-30kN at 4,815mBRT. For confirming tag depth, reciprocate w/no rotation from 4,811 to 4,815mBRT x 2times. Tag w/50-80kN at 4,815mBRT. 150gpm x 3.2MPa. Check Parameter at 4,814mBRT: 600, 700, 800gpm x 17.8, 22.0, 27.0MPa, 15rpm x 11-13kNm, HK:2,750kN(down)/ 2,900kN(up) Reciprocate from 4,810 to 4,812.5mBRT x 3times. Observe Tag depth change from 4,815mBRT to 4,812.5mBRT Take weight w/20-80kN at 4,812.5mBRT. Milling parameter: 600gpm x 15-16MPa, 10-60rpm x 10-16kNm(Stall >32kNm x 1time) For confirming tag depth, lowering from 4,810 to 4,812.5mBRT w/no rotation, no pump. Tag w/40-50kN at 4,812.5mBRT Wash down w/no rotation, 150gpm x 2.7MPa. Tag w/40kN at 4,812.5mBRT then rotate w/10rpm x >32kNm(Stall), 600gpm x 15.9MPa From 4,809 to 4,813mBRT w/600gpm x 15.2MPa, 10rpm x 13-15kNm. Take weight w/45kN at 4,813mBRT then stall >32kNm Pick up to 4,809mBRT. Check parameter w/600gpm x 15.4MPa, 11rpm x 10-13kNm
8:00	9:00	1:00	TRIP	4,880.0	PU to 4,595.8mBRT (above ESET liner top) for check Junk mill condition Open CMC, confirm BHA pass liner top smoothly Confirm Junk mill free from debris by circulation and pumping. Parameter: 600gpm x 15MPa, 30rpm x 3-6kNm
9:00	11:00	2:00	TRIP	4,880.0	RIH 9.851" drill out cement assembly from 4,595.8mBRT to 4,813mBRT. Open CMC and reciprocate liner top area(from 4,595.8 to 4,606.2mBRT) x 2times(w/rotation and w/o rotation) by 600gpm x 15MPa Lowering w/rotation: 15rpm x 5kNm w/20-30kN pass to 4,606.2mBRT, OK. Then stop rotation and pick up to 4,600mBRT. Lowering w/o rotation: w/40-50kN pass to 4,608.5mBRT, OK Continue lowering down from 4,608.5mBRT w/rotation 5rpm x 3-7kNm and pump 150gpm x 3MPa. Not observe any excessive drag, OK
11:00	13:45	2:45	CSG	4,880.0	Drill out 9-5/8" x 11-3/4" ESET casing shoe From 4,813mBRT, reaming down w/600gpm x 15MPa, 30rpm x 16-20kNm. Take weight w/50kN at 4,813.5mBRT then stall >33kNm Reciprocate from 4,810 to 4,814mBRT x 12times Take weight 40kN at 4,814mBRT w/60rpm x 11-16kNm, 600gpm x 15-21MPa. Pump Barolift 5m3 Continue drill out shoe at 4,814mBRT x12times w/different parameters 5, 20, 30, 50, 60, 80rpm x 11-13.5kNm, 600gpm x 14.7-21MPa. Observe drilling break from 4,815 to 4,816mBRT, w/35-60rpm x 10-22kNm, 600, 700, 750gpm x 14.6, 19.6, 21.6MPa Suspect 9-5/8" x 11-3/4" ESET casing shoe at 4,815mBRT by increase ROP Observe pressure come up suddenly from 21.6 to 24.8MPa w/750gpm at 4,816mBRT, stall same >38kNm. Stop pump and release torque.
13:45	24:00	10:15	OTHER	4,880.0	Work pipe at 4,816mBRT Attempt to Jarring x >100times Jarring up: Apply 500kN(down) then overpull 700kN(up), after activated jar, continue overpull max 1,500kN (w/o pump) When observe jar not activated, back to neutral weight and apply 70rpm x >42kNm(Stall) then continue jarring Attempt to pump and confirm able to pump 300gpm x 12MPa, w/o loss Attempt to rotate string but no success every 10times jarring. Pump lubrication pill 5m3 and locate on BHA depth Meanwhile: Conduct function test coring bumper sub at Aux well. Confirm function good.OK. Length for "Balanced": max 1.5m. "Non balanced": max 1.52m

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	6:00	6:00	OTHER(N)	4,880.0	Continue to work pipe at 4,816mBRT Attempt to Jarring x >100times Jarring up: Apply 500kN(down) then overpull 700kN(up), after activated jar, continue overpull max 1,500kN (w/o pump) When observe jar not activated, back to neutral weight and apply 70rpm x >42kNm(Stall) then continue jarring Jarring down: Apply 200kN(up) then 600kN(down), w/o pump Attempt to rotate string but no success every 10times jarring. Observe no loss Backloading items: Receive Econo wrap from Shingubase by Shincho-maru. Prepare bundling for purchased 9-5/8"ESET 19jts(including anchor joint), 48jts on Econo wrap(Done), total 67 jts on deck.

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

BHA Record @24:00													Hook Wt. (knt) @24:00			
22	9.851" DO BHA	9.851"Junk Mill x Bit Sub w/ non ported float x XO#1 x 6-3/4" DC (4-1/2"IF 3stds) x 6-1/2" Jar x 6-3/4" DC (4-1/2"IF 2j) x XO#2 x Churchill Drift Sub x 5" DP S-140 (12stds) x 5-1/2" DP S-140 (22 stds) x XO#3 x 5-1/2" DP S-150 (70 stds) x XO#4 x 6-5/8" DP 2140 (12stds) x 6-5/8" DP UD-165											4,816.0 mBRT			

Mud Properties @24:00																								
Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	6rpm	Gel St. (10 ¹⁰ , 10 ¹)	API	Clay	pH	PF	Cl-	Sand	Oil	Solid	MBC	Temp (In/Out)	K+	n	K	LGS	FIT 20/40 (mm) 0 min / 5min	
KNPP	6:00	4,748	1.39	64	25	27	10	9	18	7.0	1.1	9.8	0.1	120.700	0.20	19.0	2.25	10	8	20.900	0.45	2.70	6.40	-

Mud Pumps : 14-P-220					5.00 gallon/stroke @97%					Personnel @24:00					Mud Materials on Board @24:00hrs (unit: kg)									
No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	CD/EX	10	MQJ Crew	101	Barite (Bulk)	Received	Used	Stock	1	6"	70	350	21.0	74	59	Caustic Soda	500	500	384.500

Geologic Information @24:00					Shale Shaker / Centrifuge @24:00					Materials Stock on Board @24:00																
From	To	Lithology of cuttings			No.1	30, 230	No.4	30, 230	#1-#3 Centrifuge running time	Item	Unit	Stock	Used	Received	2	6"	70	350	21.0	74	59	Fresh Water	m3	271.2	75.6	0.0

Boat Information @24:00					Mud volume@24:00					Heli Information @24:00																
Boat Name	Status	Time @Chikyū		Departed	Arrived	KNPP mud (1.39)	427	KNPP (Fracseal)	198	KNPP (BAROLIFT)	40	KNP mud (1.33)	47	KNP mud (1.13)	165	STOLOSS(1.37)	54	Slug mud (1.70)	9	total	940	Fit No.	Arrived	Departed	Are.	Dept.

Weather Information													Safety (HSE) and other information										
Time	Weather	Temp. (degC)	Air	SW	Barometer (hPa)	Wind Speed (m/s)	Dir. (deg)	Gust (m/s)	Height (m)	Dir. (deg)	Period (s)	Current Speed(knt)	Dir. (deg)	Visibility (km)	Incident	Last Incident	No. LTA	LTA	HUNS cards	22	Remarks	Heave (m)	0.6

24:00 bc 9.0 : 17.2 1018.6 10.1 : 317 12.6 : 1.5 250 : 5.3 0.2 : 238 22.0

Today's Schedule: Continue to work pipe at 4,816mBRT. Slip and cut.

Reported by : A. Suzuki / N Sakurai
Approved by : T.Sanuhashi