

Chikyū DAILY MORNING REPORT

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

Report No. : 12

Site Name **C0002** Hole Name **C0002P** Lat. **33° 18.0507'N** Long. **136° 38.2029'E** Seabed Depth : **1,967.5** mBRT RT-MSL : **28.5** m Report Date : **19/Oct/2018**

Depth : @24:00 mBRT **(1967.5)** mbsf Progress : **0.0** m Drilling/Coring/Underreaming Hrs. : **0.00** hrs
 Depth : @06:00 mBRT **(1967.5)** mbsf LAST CASING : **11-3/4"** x **2,922.50** mbsf 4,890.0 mBRT Last BOP Test : Next BOP Test :

Summary of Operation on **18-Oct** : **Troubleshoot BOP(replace faulty PSs and investigate). Stuck up BOP. Conduct BOP function test and pressure test**
 Present Operation @ 06:00 on **19-Oct** : **Prepare for running BOP.**

Time Breakdown (00:00 - 24:00 on **18-Oct**) mBRT: meter below rotary table mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	12:30	12:30	BOPE(N)		Continue to troubleshoot for BOP Blue Pod Continue to vacuum and fill up by silicon oil, then conduct pressure test with 58psi (0.4MPa). Find 4ea PSs (UPR-Close, ST-Lock-Lock, Deadman disarm, Deadman Arm) in lower left L-can and 1ea PS (Deadman electric on) in lower right failure Replace faulty PSs. Vacuum and fill up by silicon oil for 2 Lower L-cans on Blue POD Conduct pressure test in hyperbaric chamber in lab to confirm whether PSs function in high pressure condition (20MPa). -Test #1: Test PSs made by Subsea Sensor Inc. Test sticky silicon grease PS and soft grease PS to confirm affect of hardness of grease inside pressure balanced cavity. #1-1 PS (sticky silicon grease): Failure at 0.4 MPa. #1-2 PS (soft silicon grease): Observe failure at 0.4MPa. Status recover to normal condition after bleeding off pressure. -Test #2: Test PSs failure in pressure test on Blue POD Lower L-cans (0 - 22MPa). Remove half of grease from #2-1 PS to confirm affect of volume of grease inside pressure balanced cavity. #2-1 PS : Observe no failure. OK. #2-2 PS : Observe failure while pressurizing to 25MPa, but after keeping pressure for a few minutes, status recover to normal condition. OK. -Test #3 : Test PSs failure in pressure test on Blue POD lower L-cans at first, but status recover after repeat pressurizing L-cans (0 - 25MPa). #3-1, #3-2 PS : Observe no failure. OK. -Test #4 : Test PSs which is same condition with #3-1, 2 and test #2-2 again to confirm repeatability of recovering normal status (0 - 25MPa). #4-1 PS : Observe no failure. OK. # 2-2 PS : Observe failure while pressurizing to 25MPa, but after keeping pressure for a few minutes, status recover to normal condition. OK. Confirm PSs removed from Blue POD Lower L-cans work correctly in high pressure condition.
12:30	23:30	11:00	BOPE(N)		Preparation for run BOP. (12:30-14:30) Fill up silicon oil to Blue POD lower L-can. Meanwhile remove plugs for Blue POD stab and re-install packer seal. (14:30-15:30) Retract Yellow and Blue POD stab and confirm mini connectors in open position. Install New gasket to LMRP connector and mini connectors. Stack up LMRP onto BOP then "Close" LMRP connector, mini connectors, and Wellhead stump. OK (15:30-23:45) Conduct Function test and Pressure test for BOP. -Function test for BOP from Blue, Yellow and Acoustic POD: Confirm all function OK Observe leak from Yellow POD female connection for SSR, tighten connection: OK Observe leak from piping between conduit manifold and SPM manifold when swapping POD selection, re-arrange piping: OK For Wellhead connector, pressure increase to 3,000psi from Yellow/Blue then confirm no leak on the piping and fitting: OK -Pressure test for LMRP connector and mini connector For LMRP connector w/UA, KI, IGB, Pressure test w/300psi for 5min, w/7,000psi for 10min: OK. For mini connector w/MPR, UIK, UIC, CI, KI, IGB, Pressure test w/300psi for 5min, w/15,000psi for 10min: OK. (23:45-24:00) Install New gasket to Wellhead connector.

Time Breakdown (00:00 - 06:00 on **19-Oct**) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	6:00	6:00	BOPE(N)		Continue to prepare for running BOP. (00:00-03:00) Transfer BOP onto BOP stand. (03:00-03:45) Move BOP cart to well center. (03:45-05:15) Connect Instrument joint to LMRP (05:15-06:00) Re-arrange MUX cables for running BOP. Secure BOP with Moon pool taggers.

Bit No.	Size (in)	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mBRT) From : To	Meter-age	Hrs.	WOB (kN) Min. : Max.	rpm Min. : Max.	Total Rev. (kern)	Inner	Outer	Dull	Loc.	B	G	O.D.	RP

BHA Record		Hook Wt. (kN) @24:00hrs		mBRT	
Hook Load					360
BHA					
Below HWDP					
below Jar					
Hook + RRT					360
Hook block					147
Jar Rotating time	S/N: -				
Today	-	Total	-	-	hrs
Cutting skip @24:00					
Empty	Full	Total			
10	0	10			
ROV @24:00					
Status	Stand-by				
Last Dive	10/16/2018				
Injection Skid	/135 gal				

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	6rpm	Gel St (10", 10')	WL	Cake	pH	PI	Cl	Sand	Oil	Solid	MBC	Temp In	Temp Out	K+	n	K	LGS	FIT 20/40 (mm) 0 min : 5min
KNPP		Pit																						

Mud Pumps : 14-P-220 @ 0.0 mBRT 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)	DC	DP	CDEX	9	Item	Received	Used	Stock											
1	6"							MJQ Crew	101	Barite (Bulk)			813,000											
2	6"	0	0	0.0				MJQ (SC,Other)	2	Caustic Soda			1,000											
3	6"							MWJ	15	Lime			2,200											
								Scientist	2	Soda Ash			0											
								Science Media	2	Caustic Potash			1,625											
								Flance 5	4	Tel-Polymer DX / L / H			6,400 / 1,200 / 0											
								AXON	1	XCD-Polymer			1,325											
								Oceanengineering	6	Lignite NC			4,500											
								SLB Cementing	1	Clean Lube W			10,000											
								SLB WL	0	Tel Clean W			6,400											
								Geoservices	0	Astex-S			6,300											
								AFGlobal	0	Deformer 30C			448											
								Frank's International	0	Tell DD			3,200											
								Erventure	0	Bi-Carbonate			2,000											
								BHGE	1	Citric Acid			1,300											
										Tan Cal M / F / FF			1,020 / 210 / 0											
										Telnitile GXL			684											
										Treat-HS			9,200											
										Mud Seal P			130											
										Tel Plug C / M / F			500 / 500 / 500											
										Tel Stop P / G			500 / 260											
										Balwin			163											
										Discol D			0											
										Tel Flow P			2,310											
										Form Seal			5,250											
										Steel Seal 50			16,000											
										KCl			18,000											
										NaCl			9,000											
										Fracsal			8,000											
										Stopseal														
										Total			1186											

Geologic Information				Shale Shaker				Mud Volume (m3)				
From	To	Lithology of cuttings		No.1	No.4	No.1	off	KNPP mud (1.33)	1156			
				No.2	No.5	No.2	off	PHG (1.06sg)	30			
				No.3	No.6	No.3	off					
				Centrifuge: hrs								

Materials Stock on Board @24:00				Boat Information @24:00			
Item	Unit	Stock	Used	Received	Boat Name	Status	Time @Chikyū
Fresh Water	m3	249.1	70.9	99.1	#8 Meiji-maru	Chikyū	Departed
Potable Water	m3	286.4	11.2	0.0			Arrived
Drill Water	m3	1,962.0	7.0	0.0			
Fuel	m3	7,715.2	41.6	0.0			
Lube Oil	Ltrs	134,400	0	0			
Heli Fuel	Ltrs	0.0	0.0	0.0			
Cement "GWIC"	ton	188.0	0.0	0.0			
Cement "G"	ton	97.0	0.0	0.0			

Heli Information				Safety (HSE) and other information			
Fit. No.	Time	Passenger		Incident	Last Incident	No. LTA	
1	Arrived	Departed	Are.				
2							
3							
4							
				LTA			
				HUNS cards			
				Remarks			
				20			

Marine Information @24:00			
Heave (m)			0.2
Pitch (deg)			0.2
Roll (deg)			0.1
Vessel Heading (deg)			001
Riser Tension (kN)			-
V.D. Load (ton)			18711
Max Draught (m)			9.2
Thruster (kW)			960

Weather Information				Wave				Current				Visibility			
Time	Weather	Temp (degC)	Barometer	Wind	Wave	Current	Visibility	Time	Weather	Temp (degC)	Barometer	Wind	Wave	Current	Visibility
24:00	r	17.5	23.7	1016.2	4.1 ; 147 ; 4.8	1.7 ; 60 ; 6.0	0.4 ; 185 ; 11.0								

Today's Schedule: Run BOP and Riser. Pressure test Auxiliary lines during BOP run.

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