

Chikyuu DAILY MORNING REPORT				Mission No. : CK18-04		Exp. No. : Exp 358		Report No. : 140									
Site Name C0002		Hole Name C0002T		Lat 33° 18.0507'N	Long. 136° 38.2029'E	Seabed Depth: 1,967.5 mBRT	RT-MSL: 28.5 m	Report Date : 24/Feb/2019									
Depth : @24.00	4,816.0 mBRT	2848.5 mbsf		Progress : 0.0 m	Drilling/Coring/Underreaming Hrs. : 0.00 hrs	Last BOP PT: 1/28/2019	Next BOP PT: 2/22/2019										
Depth : @06.00	4,816.0 mBRT	2848.5 mbsf		LAST CASING : 9.58" x 11.34" ESEET x 2,802.50 mbsf (4,770.0 mBRT)		Last BOP FT: 2/14/2019	Next BOP FT: 2/22/2019										
Summary of Operation on 23-Feb : Conduct #2 plug back cementing. Wait on cement. Wash down to top of cement.				Present Operation on 24-Feb : Flow check well on trip tank after pressure test.						Last Glycol 35gal Inj. 2/20/2019							
Time Breakdown (00:00 - 24:00 on 23-Feb)				Detail of Operation						mBRT: meter below rotary table mbsf: meter below sea floor							
From	To	Hrs	Code	Depth(mBRT)	Detail of Operation												
0:00	0:30	0:30	P & A	4,816.0	Continue circulating and bottoms up during wait on cement.												
0:30	1:15	0:45	W&R	4,816.0	Ream down from 4,747mBRT to 4,785mBRT. Take weight at 4,785mBRT with 10kN down and torque increase 8--10kNm.												
1:15	2:30	1:15	P & A	4,816.0	Prepare for cementing operation. Make up Side Entry Sub (SES) stand with 2x FOSV and 1x SES.												
2:30	5:00	2:30	P & A	4,816.0	Conduct #2 plug back cementing at 4,780mBRT.												
					Locate bottom of diverter at 4,780mBRT. Displace surface line with 2.2m <sup>3</sup> (13.8bbl) of 1.60sg Mud push II spacer and 0.6m <sup>3</sup> (4.2bbl) of 1.35sg mud using rig pump.												
					Close upper FOSV. Insert foam ball above lower FOSV. Apply 3.5MPa above upper FOSV.												
					Open lower lo-torc valve. Pump 9.0m <sup>3</sup> (50bbl) of 1.60sg Mud push II spacer from cement unit at 4.5bpm.												
					Remove cement hose. Insert foam ball below SES. Pump 7.7m <sup>3</sup> (48.4bbl) of 1.90sg G cement slurry from cement unit at 4.5bpm.												
					Flush surface line from cement unit with 0.25m <sup>3</sup> (1.6bbl) of 1.60sg Mud push II spacer.												
					Close lo-torc valve and open upper and lower FOSV.												
					Displace cement with 48.2m <sup>3</sup> (303bbl) (2,554stks, including spacer volume in surface line) of 1.35sg mud at 500gpm using rig pump.												
					Observe pressure increase after 35.0m <sup>3</sup> (220bbl) pumped, indicating spacer enters annulus.												
					Pressure jump up 3.2--4.5MPa after 39.3m <sup>3</sup> (247bbl) pumped, might be possible plugging foam ball at diverter.												
					Reduce flow rate from 500gpm to 125gpm in last 2.6m. No losses through cementing operation. Estimated TOC at 4.630mBRT.												
5:00	6:00	1:00	TRIP	4,816.0	Rack back SES stand in derrick. POOH diverter at 9.1m/min from 4,780mBRT to 4,550mBRT (80m above planned TOC).												
					The string pulled wet.												
6:00	9:15	3:15	C&C	4,816.0	Circulate and bottoms up.												
					800gpm x 15.5MPa.												
					Observe 1.35-1.36sg mud and pH 12.2 after 474m <sup>3</sup> , 1x bottom up, pumped (Original pH 11.9). No pure cement.												
9:15	23:30	14:15	CMT	4,816.0	Wait on cement.												
					(13:00-16:00) Three samples are getting hard gradually, but are still wet condition.												
					First batch mixing sample (Not reference for surface sample) become hard at 16:00.												
					(16:00-20:00) Two samples almost become hard, but are still wet condition a little bit.												
					(20:00-22:00) All samples almost harden and have a little wet.												
					(22:00-23:30) All samples become almost dry condition.												
23:30	24:00	0:30	W&R	4,816.0	Wash down to tag top of #2 plug back cement from 4,590mBRT to 4,612mBRT.												
					Wash down w/200gpm x 2.4MPa.												
					(13:19-14:19) Advisory status due to communication error of #1 APRS. Recover communication by reboot.												
					<Offline>												
					Prepare riser / BOP recovery.												
					Observe hydrate onto wellhead connector indicator.												
					Recover ROV to surface and change hot slab to remove hydrate.												
					Continue to repair iron roughneck #B and investigate iron roughneck #A malfunction (Since 15th of Feb (#A), 13th of Feb (#B)).												
					Iron roughneck #A: Under investigation												
					Iron roughneck #B: Continue to investigate eccentricity problem.												
					Find check valve shaft was bent and replace same.												
					Perform function test except high clamping pressure. Okay												
					Swap iron roughneck cassette and check function (19:00-21:00)												
					Function test UWTV winch - Perform repeatability test to check the problematic point. All function works well.												
					Observe no errors in winch when start to operate UWTV winch.												
					No loss/gain in 24hrs Ditch magnet: 12.0kg (8.5in hole total: 26.0kg)												
Time Breakdown (00:00 - 06:00 on 24-Feb)				* The data on 00:00 - 06:00 is unofficial.													
From	To	Hrs	Code	Depth(mBRT)	Detail of Operation												
0:00	2:00	2:00	W&R	4,816.0	Continue to washing/reaming down to tag top of #2 plug back cement from 4,612mBRT to 4,771mBRT.												
					10rpm x 6-7kNm, 200gpm x 2.4MPa. Tag TOC at 4,771mBRT with 50kN.												
2:00	4:00	2:00	P & A	4,816.0	Prepare for pressure test #2 plug back cement.												
					Pick up and make up SES stand. Install cement hose with lo-torc valve. Close FOSV#2. Flush cement line and choke line with 4bbl from cement unit.												
					Pressure test cement hose, lo-torc valve and choke line to 300psi / 5min and 1,500psi / 5min - good test.												
4:00	6:00	2:00	P & A	4,816.0	Pressure test #2 plug back cement with 1.36sg mud.												
					Test #1: Close lower annular BOP. Line up cement line and choke line. Attempt to pressure test #2 plug back cement - observe gain in trip tank. Stop pumping.												
					Test #2:												
					Open and close lower annular BOP. Pressure test #2 plug back cement. Observe less pressure building up trend than 11-3/4" liner pressure test trend.												
					Stop pumping at 160psi after 2bbl pumped. Bleed off pressure. No returns at cement unit. No gain in trip tank while pressure test #2.												
					Confirm surface line - no leak. Apply pressure 2.2MPa above FOSV#2 - no leak.												
					Test #3:												
					Pressure test #3 plug back cement. Observe similar pressure building up trend as test #2.												
					Stop pumping at 300psi after 5bbl pumped. Bleed off pressure. 0.7bbl returns at cement unit. No gain in trip tank while pressure test #3.												
Bit Record @24:00																	
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. (rev)	ROP (m/hr)	Inner	Outer	Dull Condition Loc. B G O.D. RP	
BHA Record @24:00										Hook Wt. (knt) @24:00 4,612.0 mBRT							
32	Diverter	Diverter		Hook Load 2,800													
Mud Properties @24:00										Below HWDP -							
										Below Jar -							
										HPS & Travelling block 620							
										Hook + RRT -							
										Hook block -							
										Jar Rotating time 24(S/N):							
										Today Total hrs							
										Cutting skip @24:00							
										Empty Full Total							
										3 2 5							
Personnel @24:00										ROV @24:00							
										Status On deck							
										Last Dive 2/23/2019							
										Injection Skid Dive w/135 gal skid							
Geologic Information @24:00										Heli Information @24:00							
From To Lithology of cuttings										Fit. No. Arrived Departed Passenger							
										1							
										2							
										3							
										4							
Shale Shaker / Centrifuge @24:00										Safety (HSE) and other information							
No.1 30, 60 No.4 30, 60 #1-#3 Centrifuge running time										Incident Last Incident No. LTA							
No.2 30, 60 No.5 30, 60										LTA							
No.3 30, 60 No.6 30, 60										HUNS cards 16							
Materials Stock on Board @24:00										Remarks							
Item Unit Stock Used Received																	
Fresh Water m3 271.0 82.7 48.7																	
Potable Water m3 258.0 4.0 0.0																	
Drill Water m3 921.0 41.7 75.7																	
Fuel m3 2,500.2 50.1 0.0																	
Lube, Oil Ltrs 52,600 400.0 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																	
Boat Information @24:00										Marine Information @24:00							
Boat Name Status Time @Chikyuu										Heave (m) 0.6							
Departed Arrived										Pitch (deg) 0.3							
#8 Meiji-maru Katsura 12:00										Roll (deg) 0.1							
Akatsuki Shingu 03:00										Vessel Heading (deg) 005							
Shincho-maru Chikyuu										Riser Tension (kN) 9600.0							
										V.D. Load (ton) 11248							
										Max Draught (m) 9.0							
										Thruster (kW) 2200							
Weather Information																	
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 bc 16.4 1022.0 11.7 18 14.1 2.0 0 5.5 0.4 214 22.0																	
Today's Schedule: Conduct plug back cement #3 operation. WOC. Tag TOC.										Reported by : T. Yokoyama / A. Suzuki							
										Approved by : T. Ikawa							