

Chikyu DAILY MORNING REPORT

Mission No. : CK18-04

Exp. No. : Exp 358

Report No. : 84

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 : **30/Dec/2018**
 Depth : @24:00 **4,963.0** mBRT **2995.5** mbsf Progress : **4.0** m Drilling/Coring/Underreaming Hrs. : **2.50** hrs Last BOP PT: **2018/12/14** Next BOP PT: **2019/01/04**
 Depth : @06:00 **4,963.0** mBRT **2995.5** mbsf LAST CASING : **11-3/4"** x **2,922.50** mbsf (4,890.0 mBRT) Last BOP FT: **2018/12/29** Next BOP FT: **2019/01/05**
 Summary of Operation on **29-Dec** : **Drill 8-1/2" hole from 4,959mBRT to 4,963mBRT. Ream out from 4,963mBRT to 4,710mBRT. POOH to surface. BOP** Fast Glycol 35gal Inj. **2018/12/25**
 Present Operation @ 06:00 on **30-Dec** : **RIH 8-1/2" kick off BHA at 147mBRT.** mBRT: meter below rotary table
 Time Breakdown (00:00 - 24:00 on **29-Dec**) mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation	Depth (mBRT)	Inc (deg)	Azi (deg)
0:00	2:30	2:30	DRL	4,963.0	Drill 8-1/2" kick off hole from 4,959mBRT to 4,963mBRT. (00:00 - 00:45) Continue sliding mode from 4,959mBRT to 4,960mBRT. Parameters: WOB 95-130kN, 480gpm x 18.7MPa, Motor RPM 134rpm, TF 150-170deg, Ave ROP 1.3m/hr (00:45 - 02:30) Rotating mode from 4,960mBRT to 4,963mBRT. Parameters: WOB 80-110kN, 480gpm x 18.7MPa, 50rpm x 12-14kNm, Ave ROP 1.7m/hr Survey data (Depth: Telescope sensor depth)			
2:30	3:15	0:45	SURV	4,963.0	Take survey at connection. Decision make to pull the BHA due to undesirable inclination control.	4,942.29	8.07	85.26
3:15	9:00	5:45	TRIP	4,963.0	Ream out of hole 8-1/2" kick off BHA from 4,963mBRT to 4,710mBRT. Parameters: 200gpm x 5.2MPa, 50rpm x 12-16kNm. Stop rotation and attempt to pump out at 4,921m, 4,876-4,870m and 4,862-4,839mBRT - take <350kN overpull. Slack off to neutral weight and back ream out of hole at these depths. Observe pressure spike by 2MPa and WOB <50kN when reaming down at 4,835-4,840mBRT and 4,797-4,808mBRT prior to checkshot surveys. Take checkshot survey at 4,819.59mBRT and 4,784.60mBRT (sensor depth). Stop rotation and pump. POOH 8-1/2" kick off BHA through 11-3/4" window without overpull. Boost riser at 450gpm. Checkshot data (Depth: Telescope sensor depth)	4,819.59	2.87	78.54
9:00	14:00	5:00	TRIP	4,963.0	POOH 8-1/2" kick off BHA from 4,710mBRT to 3,275mBRT. Boost riser at 450gpm. Change bottom shaker screens from API120 to 4x API 270, 1x API230, 1x API170 size. Clean strainers of #1 mud pump and conduct fluid end inspection: OK. (12:45-13:00) Clean and check elevator because the detector pin for elevator door open/close becomes sticky.	4,784.60	0.66	74.75
14:00	14:45	0:45	BOPE	4,963.0	BOP function test by Blue POD from Drillers panel. Find Upper pipe ram leak becomes severe (16 lpm => 330 lpm)			
14:45	24:00	9:15	TRIP	4,963.0	Resume to POOH and lay out 8-1/2" kick off BHA from 3,275mBRT to surface. Boost riser at 450gpm. Continue BOP function test of failsafe valves by Blue POD from Drillers panel while POOH. Conduct shallow test at 500mBRT with #3 mud pump to check Telescope conditions due to under maintenance of #1 & #2 mud pump: Signal is okay. Observe shallow scratch on 6-3/4" NMDC. Lay out 6-1/2" jar and 8-1/2" bit. Jar mandrel: 18-3/16" (Same as before). Bit dull grade: 1 - 1 - CT (2) - G (#1 & #2) - E - 1 - WT - BHA Check motor bearing: 37mm w/o slack off and 33mm w/slack off, 4mm gap (Max. allowable gap: 6mm). Offline: Prepare next re-run kick off BHA. Clean strainers on #1 & #2 mud pump and conduct fluid end inspection, on going. Pressure test C/K manifold to 5,000psi for 5mins - good test. Ditch magnet: 0.5kg (Total 81.5kg for Kick off hole)			

Time Breakdown (00:00 - 06:00 on **30-Dec**) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	1:15	1:15	TRIP	4,963.0	Lay out 8-1/2"kick off BHA. Lay out Telescope and Mud motor. Motor stabilizer gauge: In gauge 8-1/8"Stabilizer gauge: 1/16 undergauge
1:15	2:15	1:00	RS	4,963.0	Rig service. Concurrently download Telescope memory data on deck. Total shock count 1,300 - good. Be able to re-run.
2:15	6:00	3:45	TRIP	4,963.0	RIH 8-1/2" kick off BHA from surface to 147mBRT. Pick up new A675XP motor. Check motor bearing 2mm gap between with and without slack off. Adjust motor bent angle 1.50deg. Install 8-3/8" motor sleeve stabilizer. Check stabilizer OD about motor: 8-1/4". Pick up and run Telescope675 (S/N: B0540, 500gpm setting, used) and 6-1/2" jar (S/N: 1760-5031, used). Measure the offset angle between Telescope tool face and motor high side. Motor high side 315deg clockwise from Telescope tool face. Check the length for jar mandrel: 18-3/16".

Bit No.	Size (in)	MFR	Type	IADC Code	S/No.	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
6	8.5	Smith	FKK230D/PS	527X	RG2023	3x 16/32"	4,772.0	4,963.0	191.0	65.01	0	130	0	50	662.55	2.9	1	1	CT (2)	G #1, 2	E	1/16	WT	BHA

BHA Record @24:00		Hook Wt. (knt) @24:00		
#18	8-1/2" KO BHA	8-1/2" Bit x A675XP PDM with 1.15" bent x 8-1/8" Stab (SLB) x Float Sub w/ Non-ported float valve (SLB) x 6-3/4" Pony NMDC x XO #1 x Telescope 675 x XO #2 x 6-3/4" NMDC x 6-3/4" DC (3 stds) x 6-1/2" Jar x 6-3/4" DC (2 stds) x XO #3 x 5.68" HWDP (3 stds) x XO #4 x 5-1/2" DP S-140 (25 stds) x XO #5 x 5-1/2" DP S-150 (65 stds) x XO #6 x 6-5/8" DP Z-140 (22 stds) x 6-5/8" DP UD-165	0.0	mBRT
		BHA	180	
		Below HWDP	250	
		Below Jar	125	
		HPS & Traveling block	615	
		Hook + RRT	-	
		Hook block	-	
		Jar Rotating time 24/SIN:	1760-5031	
		Today	2.31 Total 65.01 hrs	

Mud Properties @24:00		Mud Pump: 14-P-220		5.00 gallon/stroke @97%																				
Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	6rpm	Gel St (10 ¹⁰ , 10 ¹)	API	Clay	pH	PI	C-	Sand	Oil	Solid	MBC	Temp In	Temp Out	K+	n	K	LGS	FIT 20/40 (mm) 0 min : 5min
KNPP	2:30	4,963	1.39	67	25	32	12	11 : 19	6.9	1.1	9.8	0.1	117,000	0.20	18.0	2.00	11	9	22,000	0.45	2.92	4.80	-	-
KNPP	14:00	Pit	1.39	67	25	32	12	11 : 19	6.8	1.1	9.6	0.1	127,000	0.20	18.0	2.00	8	11	22,000	0.45	2.92	4.30	-	-

Personnel @24:00		Mud Materials on Board @24:00hrs (unit: kg)							
No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	Item	Received	Used	Stock
1	6"	48	240	18.7	6.5-5.0 ^{DP}	CDEX	9		
2	6"	48	240			MJQ Crew	101		469,000
3	6"(Booster)	90	450			MWJ	16		1,200
						Scientist	10		200
						Soda Ash			1,125
						Caustic Potash			1,750
						Telinite	2		4220/2000/0
						Oceanearing	6		1,025
						SLB Cementing	1		4,500
						SLB WL	0		0
						Geoservices	6		6,400
						M-I SWACO	4		2,700
						SLB Underreamer	2		336
						SLB LWD	2		3,200
						SLB Seismic	0		1,000
						AFGlobal	2		2,275
						ENVENTURE	0		1,020/ 210 / 510
						SLB DD	2		684
						Franks	0		9,200
						HAL UR	1		130
						Total	164		500 / 500 / 500
									500 / 260
									2,025
									0
									0
									0
									3,500
									11,000
									26,000
									12,000
									0
									46,000

Geologic Information @24:00		Shale Shaker @24:00		Centrifuge: 0 hrs	
From	To	Lithology of cuttings	No.1	No.2	No.3
4,950	4,963	Claystone (20-35), Silty claystone (60-80), Tuff(0-Tr), Carbonate (0-Tr)	30, 230	30, 270	30, 270
			No.4	No.5	No.6
			30, 170	30, 270	30, 270
			No.7	No.8	No.9
			30, 270	30, 270	30, 270

Materials Stock on Board @24:00		Mud volume @24:00	
Item	Unit	Stock	Used
Fresh Water	m3	239.0	108.3
Potable Water	m3	341.0	13.8
Drill Water	m3	1,467.0	5.5
Fuel	m3	5,157.7	50.3
Lube Oil	Ltrs	88,000	700.0
Helix Fuel	Ltrs	0.0	0.0
Cement "GWC"	ton	186.0	0.0
Cement "G"	ton	97.0	0.0
KNPP mud (1.37)	221		
Slug mud	3		
KNP mud (1.13)	80		
STOPLOSS (1.37)	47		
KNP mud (1.19)	66		
KNPP mud (1.39)	277		
total	694		

Boat Information @24:00		Mud Materials on Board @24:00hrs (unit: kg)	
Boat Name	Status	Time @Chikyu	Item
#8 Meiji-maru	Chikyu	Departed	Received
Akatsuki	Chikyu	Arrived	Used
Shincho-maru	Chikyu	19:30	Stock

Weather Information		Marine Information @24:00	
Time	Weather	Temp. (degC)	Barometer Wind
24:00	bc	Air : SW 7.0 : 18.8	Wind Speed (m/s): 9.8 : 313 : 14.7
		Dir. (deg) : 313 : 14.7	Height (m) : 1.5 : 280 : 4.9
		Period (s) : 4.9	Speed(knt) : 1.0 : 235
		Dir. (deg) : 235	Visibility (km) : 22.0

Today's Schedule: RIH 8-1/2" kick off BHA to BOP. Slip and cut drill line. RIH 8-1/2" kick off BHA.
 Reported by : T. Yokoyama / A. Suzuki
 Approved by : T. Ikawa / K. Takase