

**Chikyu DAILY MORNING REPORT**

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

Report No.: **125**

Site Name: **C0002** Hole Name: **C0002S** Lat: **33° 18.0507'N** Long: **136° 38.2029'E** Seabed Depth: **1,967.5** mBRT RT-MSL: **28.5** m Report Date: **9/Feb/2019**

Depth: @24:00 **4,901.0** mBRT **2933.5** mbsf Progress: **36.0** m Drilling/Coring/Underreaming Hrs.: **16.00** hrs Last BOP PT: **1/28/2019** Next BOP PT: **2/18/2019**

Depth: @06:00 **4,901.0** mBRT **2933.5** mbsf LAST CASING: **8.5" x 11.3/4" ESET** x **2,802.50** mbsf( **4,770.0** mBRT) Last BOP FT: **2/5/2019** Next BOP FT: **2/16/2019**

Summary of Operation on **8-Feb**: Cont. drill 8-1/2" hole with RSS/Clink/Motor to 4.901mBRT. Conduct down link. Take survey. POOH to 4.252mBRT

Present Operation @ 06:00 on **9-Feb**: Cont. to POOH at 1.432mBRT

Time Breakdown (00:00 - 24:00) on **8-Feb** mBRT: meter below rotary table mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	2:15	2:15	DRL	4,871.0	Continue to drill down from 4.865mBRT to 4.871mBRT. WOB:120-160kN, Rotation:209rpm(HPS:60rpm, Motor:149rpm) x 10-16kNm, MP:555gpm x 24-26MPa. Survey data (Depth: Telescope sensor depth)
2:15	2:30	0:15	OTHER	4,871.0	Take survey at 4.861mBRT. Sensor depth 4.829.97mBRT. Inclination: 1.42deg, Azimuth: 56.81deg (Observe magnetic interference). Record SCR.
2:30	5:45	3:15	DRL	4,881.0	Resume drilling down from 4.861mBRT to 4.881mBRT. WOB:120-160kN, Rotation: 207rpm(HPS:60rpm, Motor:147rpm) x 10-16kNm, MP:550gpm x 24-26MPa.
5:45	6:00	0:15	OTHER	4,881.0	Take survey at 4.881mBRT. Sensor depth 4.839.14mBRT. Inclination: 0.58deg, Azimuth: 348.19deg (Observe magnetic interference). *Observe magnetic interference
6:00	8:30	2:30	DRL	4,888.0	Resume drilling down from 4.881mBRT to 4.888mBRT. WOB:120-160kN, Rotation: 207-240rpm(HPS:60-90rpm, Motor:147-160rpm) x 10-16kNm, MP:600gpm x 26-27MPa.
8:30	9:00	0:30	OTHER	4,888.0	Take survey at 4.888mBRT. Sensor depth 4.846.61mBRT. Inclination: 1.57deg, Azimuth: 281.65deg (Observe magnetic interference).
9:00	13:30	4:30	DRL	4,900.0	Resume drilling down from 4.888mBRT to 4.900mBRT. WOB:120-160kN, Rotation: 240rpm(HPS:80rpm, Motor:160rpm) x 10-16kNm, MP:600gpm x 26-27MPa.
13:30	14:00	0:30	OTHER	4,888.0	Take survey at 4.900mBRT. Sensor depth 4.859.59mBRT. Inclination: 2.89deg, Azimuth: 257.63deg (Observe magnetic interference).
14:00	17:30	3:30	DRL	4,901.0	Resume drilling down from 4.900mBRT to 4.901mBRT. WOB:140-160kN, Rotation: 240rpm(HPS:80rpm, Motor:160rpm) x 10-16kNm, MP:600gpm x 26-27MPa. Observe Off BTM pressure significantly low (22MPa--25MPa), On BTM torque stable (Torque Range 2--5kNm) and ROP reduction (0.5--3m/hr) Attempt to drill from 4.900.3mBRT to 4.901mBRT w/WOB:170-180kN, SPP:600gpm x 27MPa, observe no erratic torque from bit drilling motion Investigate slow ROP, check on/off bottom torque and pressure repeatedly Check pressure: 600gpm x 21.9MPa(off)/27MPa(on) difference 5.1MPa unchanged (2-2.5Mpa before survey) Check pressure 500gpm x 19.5MPa(on) 16MPa(off) difference 3.5MPa (Before: 500gpm x 21.9MPa(on) 19.8MPa(off) difference 2.1MPa) Check motor reactive torque: Tag bottom 50, 100, 150kN w/600gpm x 28MPa(on bottom), stop rotation and release torque. Observe no string left turn by motor
17:30	18:00	0:30	OTHER	4,901.0	Find miss communication between RSS and lower Clink. NG. Recycle pump for check LWD condition. Not recovered
18:00	18:30	0:30	C&C	4,901.0	Circulation and bottoms up. Decided to POOH and check RSS/Clink/Motor on surface
18:30	19:30	1:00	OTHER	4,901.0	Conduct down link for sonicscope and seismicvision. Stop measuring SonicScope tool for prevent making noise to seismicVision tool. Change seismicVision tool configuration to set record mode (failed twice and success on third time)
19:30	24:00	4:30	TRIP	4,901.0	POOH 8-1/2" LWD assembly to 4.252mBRT. From 4.901mBRT to 4.750mBRT (inside window), SPP:300-450gpm x 8-13.5MPa, HPS:10-15rpm x 6-10kNm. Observe drag 50kN (open hole). Conduct check shot at 4.863mBRT, 4.825mBRT and 4.790mBRT Shoot Airgun until bit reach to 4.559mBRT (inside Casing) for collecting data for Seismic data processing Stop booster and monitor Trip tank Flow check, confirm well static  Average ROP in 24 hour: 2.58m/hr  Ditch magnet: 7kg (Total 29.5kg for 8.5" hole) No loss/gain in 24hrs

Time Breakdown (00:00 - 06:00) on **9-Feb** \* The data on 00:00 - 06:00 is unofficial

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	6:00	6:00	TRIP	4,901.0	Continue to POOH 8-1/2" LWD assembly from 4.252mBRT to 1.432mBRT

Bit	Size	MFR	Type	IADC Code	S/No.	Depth (mBRT)		Meter-age	Hrs.	WOB (kN)		rpm	Total Rev. (krv)	ROP (m/hr)	Dull Condition										
						From	To			Min	Max				Min	Max	Inner	Outer	Dull	Loc.	B	G	O.D.	RP	
11	8.5	Smith	XZ716	M323	QF3395	4,788.5	4,901.0	112.5	42.42	0	160	116	240	506.34	2.7										

BHA Record @24:00		Hook Wt. (knt) @24:00	
26	8-1/2" LWD	4,252.0	mBRT
8-1/2" Bit x Xceed675 x Lower C-Link675 x XO x Filter sub x 675ERT7850 mud motor x Float sub with non-ported float x Upper C-Link675 x MicroScope675 x ARC-6 x TeleScope675 x SonicScope675 x seismicVision675 x XO x XO x 6-3/4" DC (4IF) (3 stds) x XO x 6-3/4" DC (2 stds) x 6-1/2" Jar x 6-3/4" DC (2 js) x XO x 5.68" HWDP (3 stds) x XO		290	BHA
		235	Below HWDP
		215	below Jar
		630	HPS & Traveling block
		-	Hook + RRT
		-	Hook block
		1760-5566	Jar Rotating time 24(S/N)
		18.73	Total
		52.06	hrs

Mud Properties @24:00		Mud Materials on Board @24:00hrs	
Mud Type	Time	Depth (mBRT)	MW
KNPP	2:00	4,870	1.35
	13:30	4,900	1.35

Mud Pumps @24:00		Personnel @24:00	
No.	Liner Size	SPM	GPM
1	6"	0	0
2	6"	0	0
3	6"(Booster)	0	0

Geologic Information @24:00		Shale Shaker / Centrifuge @24:00	
From	To	Lithology of cuttings	
4,870	4,900	Silty-Claystone 55-80%, Claystone: 15-30% Sandstone: 10-25%	

Materials Stock on Board @24:00		Mud volume @24:00	
Item	Unit	Stock	Used
Fresh Water	m3	315.6	85.3
Potable Water	m3	291.8	7.3
Drill Water	m3	1,026.3	12.3
Fuel	m3	3,218.8	50.8
Lube, Oil	Ltrs	66,200	500.0
Heli Fuel	Ltrs	0.0	0.0
Cement "GWC"	ton	160.0	0.0
Cement "G"	ton	97.0	0.0

Boat Information @24:00		Mud Volume (m3)	
Boat Name	Status	KNPP mud (1.35)	190
#8 Meiji-maru	KB-01B	KNPP (12ppbFracsael)	297
AKatsuki	Shingu	KNPP (30ppbFracsael)	80
Shincho-maru	Chikyu	KNPP mud (1.39)	310
		KNP mud (1.13)	221
		STOPLOSS (1.37)	47
		Slug	9
		total	1154

Weather Information		Marine Information @24:00	
Time	Weather	Heave (m)	0.3
24:00	bc	Pitch (deg)	0.2
		Roll (deg)	0.1
		Vessel Heading (deg)	010
		Riser Tension (kN)	9600.0
		V.D. Load (ton)	12115
		Max Draught (m)	9.0
		Thruster (kW)	1400

Today's Schedule:	
Cont. POOH 8-1/2" LWD assembly. MU & RIH 8-1/2" LWD assembly without volter motor. Drill 8-1/2" hole with RSS/LWD.	

Weather Information		Marine Information @24:00	
Temp. (degC)	Barometer	Wind	Wave
Air	SW	Speed (m/s)	Dir. (deg)
9.0	1019.0	7.5	36
		9.7	9.7
			2.0
			10
			5.7
			0.9
			315
			22.0

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