

**Chikyū DAILY MORNING REPORT**

Mission No. : **CK18-04**

Exp. No. : **Exp 358**

Report No. : **107**

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 : **22/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** Next BOP PT: **1/26/19**  
 Depth : @06:00 **4,880.0** mBRT **2912.5** mbsf LAST CASING : **9-5/8" x 11-3/4" ESEET** x **2,847.50** mbsf( **4,815.0** mBRT) Last BOP FT: **1/12/19** Next BOP FT: **1/23/19**  
 Summary of Operation on **21-Jan** : Cont. run Fishing BHA to 4,794mBRT. Screw-in. Work pipe at 4,816mBRT by jarring. Last Glycol 35gal Inj. **1/22/19**  
 Present Operation @ 06:00 on **22-Jan** : Cont. Work pipe at 4,816mBRT by jarring.  
 Time Breakdown ( 00:00 - 24:00 on **21-Jan** ) mBRT: meter below rotary table  
 mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	3:15	3:15	OTHER(N)	4,880.0	Continue to run Fishing BHA from 3,795mBRT to 4,794mBRT Take parameters at 4,778mBRT: free torque w/ 5rpm x 13kNm. HK:3,200kN (up) / 2,900kN (down) w/o rotation. From 4,778mBRT, open CMC and lowering down slowly w/ 50gpm x 2MPa, 5rpm x 13kNm. Tag w/ <10kN at 4,794mBRT. Screw into #2 6-3/4" DC top connection smoothly, observe torque and pressure increase from 13kNm to 15kNm (set torque limit) and from 2MPa to 3.3MPa. Stop pump and observe pressure trap 3.3MPa. Bleed off pressure to 0MPa. Torque up connection between screw in sub and #2 6-3/4" DC w/ 44kNm (5rpm) then pick up string to 3,200kN and release torque. PU string to 3,250kN then re-start pump w/ 50gpm x 6MPa (stop pump and pressure trap). Confirm thread screw into #2 6-3/4" DC top connection properly.
3:15	15:00	11:45	OTHER(N)	4,880.0	Work pipe at 4,816mBRT Attempt to get string free by Jarring up/down >400 times w/torque (20, 25, 27, 30kNm) and w/o torque on string. No success. Jarring up: Cocked by 200kN (SO) then 1400kN (OP), after jar fired, continue overpull max 2,500kN (w/o pump) Jarring down: Cocked by 200kN (OP) then 600kN (SO), w/o pump Attempt to release string w/ 70rpm x 42kNm of neutral weight, every 10 times jarring. For cooling jar, stop jarring 5-10min w/2,500kN(OP) in several times (08:30-09:15) Perform derrick inspection while cooling jar (11:55-12:30) Perform derrick inspection while cooling jar
15:00	24:00	9:00	OTHER(N)	4,880.0	Work pipe at 4,816mBRT Observe jar did not fire at 15:00, and try jarring up 5 times: Failed. Bleed off pressure and try jarring up: Failed. Apply 2.5MPa pressure and try jarring up: Failed. Attempt to jar up after Derrick inspection (15:15-16:30): Failed. Suspect jar unable to fire since hydraulic oil becomes high temperature due to no circulation. Try to fire jarring up once cocked jar w/700kN (SO) two times: Failed. Attempt to jar up w/20kNm torque and 7MPa standpipe pressure: Failed. Continue to work pipe w/1600kN (OP) and 300kN (SO) (jar fired x 1time)  (15:15-16:30) Derrick inspection Flush choke and kill line with 300gpm x 2.5MPa.  Iron roughneck over torque issue is under investigation at auxiliary well.  Ditch magnet: 5.0kg (Total 13.0kg from RIH 9.851"junk mill)  No loss/gain in 24hrs

Time Breakdown (00:00 - 06:00 on **22-Jan**) \* The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	6:00	6:00	OTHER(N)	4,880.0	Work pipe at 4,816mBRT Attempt to break string by Jarring, No success Jar fired few times, overpull max 2,500kN (w/o pump) Continue try to cocked by 500kN(SO) then overpull 1,600kN(OP) for jarring up, and 200kN(OP) then 600kN(SO) for jarring down(w/o pump). Attempt to break free string w/70rpm x 42kNm of neutral weight, every 10 times work pipe

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	Loc.	B	G	O.D.	RP	

BHA Record @24:00		Hook Wt. (knt) @24:00	
23	Fishing BHA	Screw in sub (4-1/2" Pin x 4-1/2" Box) x XO#1 x XO#2 x 8" Jar x 8-1/2" DC (6jts) x XO#3	4,794.0 mBRT

Mud Properties @24:00		Hook Load @24:00																							
Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	6rpm	Gel St. (10", 10')	API	Cake	pH	Pf	Cl-	Sand	Oil	Solid	MBC	Temp (In / Out)	K+	n	K	LGS	FIT 20/40 (mm)	0 min	5min
KNPP	7:30	Pit	1.39	61	24	25	9	8	15	7.0	1.1	10.6	0.1	117,000	0.20	19.0	2.25	10	8	21,900	0.46	2.28	6.50	-	-
KNPP	14:00	Pit	1.39	61	24	24	8	8	15	7.0	1.1	10.6	0.1	117,000	0.20	19.0	2.26	10		20,900	0.49	1.94	6.50	-	-

Mud Pumps : 14-P-220		Personnel @24:00		Mud Materials on Board @24:00hrs																																																																																																	
5.00 gallon/stroke @97%		<table border="1"> <tr><td>CDEX</td><td>11</td></tr> <tr><td>MQJ Crew</td><td>101</td></tr> <tr><td>MWJ</td><td>16</td></tr> <tr><td>Scientist</td><td>13</td></tr> </table>		CDEX	11	MQJ Crew	101	MWJ	16	Scientist	13	<table border="1"> <tr><th>Item</th><th>Received</th><th>Used</th><th>Stock</th></tr> <tr><td>Barite (Bulk)</td><td></td><td></td><td>378,000</td></tr> <tr><td>Caustic Soda</td><td></td><td></td><td>1,200</td></tr> <tr><td>Lime</td><td></td><td></td><td>200</td></tr> <tr><td>Soda Ash</td><td></td><td></td><td>475</td></tr> <tr><td>Caustic Potash</td><td></td><td></td><td>1,275</td></tr> <tr><td>Tel-Polymer DX / L / H</td><td></td><td></td><td>1,560 / 1,940 / 0</td></tr> <tr><td>XCD-Polymer</td><td></td><td></td><td>625</td></tr> <tr><td>Lignite NC</td><td></td><td></td><td>4,500</td></tr> <tr><td>Clean Lube W</td><td></td><td></td><td>8,000</td></tr> <tr><td>Tel Clean W</td><td></td><td></td><td>4,600</td></tr> <tr><td>Astex-S</td><td></td><td></td><td>4,400</td></tr> <tr><td>Deformer 30C</td><td></td><td></td><td>512</td></tr> <tr><td>Tel DD</td><td></td><td></td><td>3,200</td></tr> <tr><td>SLB LWD</td><td></td><td></td><td>2</td></tr> <tr><td>SLB Seismic</td><td></td><td></td><td>0</td></tr> <tr><td>AFGlobal</td><td></td><td></td><td>2,275</td></tr> <tr><td>ENVENTURE</td><td></td><td></td><td>1</td></tr> <tr><td>SLB DD</td><td></td><td></td><td>2</td></tr> <tr><td>Franks</td><td></td><td></td><td>1</td></tr> <tr><td>Fishing engineer</td><td></td><td></td><td>1</td></tr> <tr><td>Total</td><td></td><td></td><td>176</td></tr> </table>		Item	Received	Used	Stock	Barite (Bulk)			378,000	Caustic Soda			1,200	Lime			200	Soda Ash			475	Caustic Potash			1,275	Tel-Polymer DX / L / H			1,560 / 1,940 / 0	XCD-Polymer			625	Lignite NC			4,500	Clean Lube W			8,000	Tel Clean W			4,600	Astex-S			4,400	Deformer 30C			512	Tel DD			3,200	SLB LWD			2	SLB Seismic			0	AFGlobal			2,275	ENVENTURE			1	SLB DD			2	Franks			1	Fishing engineer			1	Total			176
CDEX	11																																																																																																				
MQJ Crew	101																																																																																																				
MWJ	16																																																																																																				
Scientist	13																																																																																																				
Item	Received	Used	Stock																																																																																																		
Barite (Bulk)			378,000																																																																																																		
Caustic Soda			1,200																																																																																																		
Lime			200																																																																																																		
Soda Ash			475																																																																																																		
Caustic Potash			1,275																																																																																																		
Tel-Polymer DX / L / H			1,560 / 1,940 / 0																																																																																																		
XCD-Polymer			625																																																																																																		
Lignite NC			4,500																																																																																																		
Clean Lube W			8,000																																																																																																		
Tel Clean W			4,600																																																																																																		
Astex-S			4,400																																																																																																		
Deformer 30C			512																																																																																																		
Tel DD			3,200																																																																																																		
SLB LWD			2																																																																																																		
SLB Seismic			0																																																																																																		
AFGlobal			2,275																																																																																																		
ENVENTURE			1																																																																																																		
SLB DD			2																																																																																																		
Franks			1																																																																																																		
Fishing engineer			1																																																																																																		
Total			176																																																																																																		

Geologic Information @24:00		Shale Shaker / Centrifuge @24:00	
From	To	Lithology of cuttings	
No.1	30, 230	No.4	30, 230
No.2	30, 230	No.5	30, 230
No.3	30, 230	No.6	30, 230

Materials Stock on Board @24:00		Mud Volume @24:00	
Item	Unit	Stock	Used
Fresh Water	m3	253.1	90.7
Potable Water	m3	307.7	3.9
Drill Water	m3	1,184.4	24.2
Fuel	m3	4,061.2	48.6
Lube, Oil	Ltrs	76,500	0.0
Heli Fuel	Ltrs	0.0	0.0
Cement "GWC"	ton	161.9	24.1
Cement "G"	ton	97.0	0.0

Boat Information @24:00		Mud Volume (m3)	
Boat Name	Status	Time @Chikyū	
#8 Meiji-maru	Chikyū	Departed	Arrived
Akatsuki	Chikyū		
Shincho-maru	Shingu	3:00	

Weather Information		Wave		Current		Visibility						
Time	Weather	Temp. (degC)	Barometer (hPa)	Wind Speed (m/s)	Dir. (deg)	Gust (m/s)	Height (m)	Dir. (deg)	Period (s)	Speed(knt)	Dir. (deg)	Visibility (km)
24:00	bc	9.5	1016.5	13.3	312	16.3	1.5	260	5.0	0.2	220	22.0

Today's Schedule: Continue to work pipe by jarring for get string free.  
 Reported by : T.Yokoyama / A. Suzuki / N.Sakurai  
 Approved by : T.Ikawa