

Chikyū DAILY MORNING REPORT

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

Report No. : **97**

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 : **12/Jan/2019**
 Depth @24:00 **4,880.0** mBRT **2912.5** mbsf Progress : **0.0** m Drilling/Coning/Underreaming Hrs. : **2.45** 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 : **11-3/4"** x **2,922.60** mbsf **4,890.0** mBRT Last BOP FT: **1/5/19** Next BOP FT: **1/12/19**
 Summary of Operation on **11-Jan** : Cont.Ream to 4.838mBRT. Circulation&bottoms up. PU BHA above window. Drop Churchill drift. POOH to 3.875mBRT. Last Glycol 35gal Inj. **1/11/19**
 Present Operation @ 06:00 on **12-Jan** : POOH POOH 8-1/2" x 12-1/4" LWD BHA at 1.767mBRT. mBRT: meter below rotary table
 mbsf: meter below sea floor

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	9:00	9:00	W&R	4,880.0	Continue to Ream down 8-1/2" x 12-1/4" LWD BHA from 4.807mBRT to 4.823mBRT. From 4.807mBRT to 4.823mBRT mBRT Work pipe at 4.807mBRT. Reciprocate for 3 times and pass through 4.808mBRT. Take weight 100kN at 4.813mBRT. Pass through with reciprocating. Take survey at 4.810mBRT and 4.823mBRT. Pick up to 4.797mBRT and ream down again to 4.823mBRT. Tag 50kN at 4.800mBRT w/no rotation and pump(650gpm x 28.4MPa) then start rotation 90rpm x 15-23kNm, pass 4.800mBRT. OK Take weight 50kN at 4.805mBRT with 30rpm and pass through with 90rpm x 16-20kNm. From 4.823mBRT to 4.838mBRT. Take weight at 4.837 - 4.838mBRT. Attempt to pass through with several parameter, but unable to pass through 4.838mBRT. Take survey at 4.837mBRT for 4times. Inclination was dropping trend (1.12 - 1.72deg). After picking up string to 4.830mBRT, tag 100kN at 4.833mBRT. Reciprocate for 7 times with different parameter, and pass with 80rpm x 29kNm.
9:00	19:15	10:15	C&C	4,880.0	Circulate and bottoms up at 4.837mBRT. MP: 700gpm x 31.6MPa. Boost riser with 475gpm x 4.3MPa. Pump Barolift 5m3 x1time and 10m3x 4times Observe many cuttings come out from shaker when barolift return coming Changeout all shaker screen from AP1170 to AP1230 Confirm hole clean by decrease cuttings volume (Downhole ECD decrease gradually from 1.441sg to 1.434sg)
19:15	20:30	1:15	TRIP	4,880.0	Pump out 8-1/2" x 12-1/4" LWD BHA Spot Fracseal 10m3 before start pump out. MP: 700gpm x 31.5MPa. Boost riser with 475gpm x 4.3MPa. From 4.838mBRT to 4.789mBRT MP: 75-250gpm x 2.3-5.9MPa, HPS:18-22rpm x 11-14kNm Observe drag 90kN at 4.824mBRT, pass OK From 4.789mBRT to 4.774mBRT Stop rotation and confirm 10-5/8" stabilizer pass top and bottom window smoothly. No drag. MP: 100gpm x 2.5MPa From 4.774mBRT to 4.745mBRT Open CMC and confirm underreamer pass top and bottom window smoothly. No drag. Stop pump and rotary while picking up.
20:30	21:00	0:30	OTHER	4,880.0	Drop Churchill drift at 4.745mBRT Open CMC Chase w/300gpm x 7.4MPa. Confirm landing by pressure increase to 9.2MPa.
21:00	24:00	3:00	TRIP	4,880.0	POOH 8-1/2" x 12-1/4" LWD BHA from 4.745mBRT to 3.875mBRT. Observe no losses/gains and no overpull while POOH. Keep boosting riser through shaker w/ API 230 screen. Meanwhile, maintenance MP#1 and #2 Official record by Geoservices

Survey data (Depth: Telescope sensor depth)

Depth (mBRT)	Inc (deg)	Azi (deg)
4,794.24	1.20	140.07
4,808.33	0.68	105.02
4,824.41	1.12	115.03
4,823.24	1.20	110.59
4,823.78	1.72	112.42
4,823.76	1.57	106.32

Time Cuttings Vol[cm]

Time	Cuttings Vol[cm]
4:00	5.0
5:00	3.0
6:00	4.0
7:00	4.5
8:00	5.0
9:00	6.0
10:00	12.0
11:00	13.0
12:00	11.0
13:00	11.8
14:00	9.7
15:00	2.1
16:00	2.3
17:00	3.7
18:00	5.8
19:00	2.7

Time Breakdown (00:00 - 06:00 on **12-Jan**) *The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Depth(mBRT)	Detail of Operation
0:00	2:15	2:15	TRIP	4,880.0	Continue to POOH 8-1/2" x 12-1/4" LWD BHA from 3.875mBRT to 2.930mBRT. Observe no losses/gains and no overpull while POOH. Meanwhile, maintenance MP#1 and #2
2:15	3:30	1:15	TRIP	4,880.0	BOP function test by blue pod from TP's panel. Conditions are same as before.
3:30	6:00	2:30	TRIP	4,880.0	Resume POOH POOH 8-1/2" x 12-1/4" LWD BHA from 2.930mBRT to 1.767mBRT. Observe no losses/gains and no overpull while POOH. Meanwhile, maintenance MP#1 and #2

Bit Record @24:00

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.
9	8.5	Smith	FKK280DVS	527X	RG1529	3 x 18	4,757.0	4,838.0	81.0	0.75	0	90	10	100	26.50	12.3								

BHA Record @24:00
 21 8-1/2" LWD [8-1/2" Bit (New, FHK1280DVS) x Bit Sub w/ Non-ported float valve x XO #1 x HRR8000 x XO #2 x arcVision675 x Telescope 675 x XO #3 x XO #4 x 10-5/8" Stabilizer x XO #5 x 6-3/4" DC (4-1/2" IF/3 stds) x XO #6 x XO #7 x 8-1/2" DC (3stds) x 8" Jar x 8-1/2" DC (1std) x XO #8 x 5.68" HWDP (3 stds) x Churchill drift sub

Hook Wt. (knt) @24:00 **3,875.0** mBRT

Hook Load	2,398
BHA	1,010
Below DC	970
below Jar	955
HPS & Traveling block	615
Hook + RRT	-
Hook block	-

Mud Properties @24:00

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	6rpm	Gel St. (10" x 10")	API	Cake	pH	PI	Cl-	Sand	Oil	Solid	MBC	Temp In	Temp Out	K+	n	K	LGS	FIT 20/40 (mm)
KNPP	2:30	4,805	1.39	66	25	28	10	9	18	7.3	1.1	9.6	0.1	120,700	0.20	19.0	2.00	12	10	20,300	0.42	3.14	6.40	-
KNPP	14:00	4,839	1.39	65	24	29	10	9	18	7.6	1.1	9.5	0.1	120,700	0.20	19.0	2.25	14	11	20,300	0.49	2.01	6.40	-

Mud Pumps : 14-P-220 5.00 gallon/stroke @97%

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"	75	375	31.5	6.5 @ 5.5 PDP
2	6"	75	375		7.9
3	6"(Booster)	95	475		63

Personnel @24:00

CDEX	8
MQJ Crew	101
MWJ	15
Scientist	10
Telrite	2
Oceanering	6
SLB Cementing	1
SLB WL	0
Geoservices	6
M-I SWACO	4
SLB Underreamer	2
SLB LWD	2
SLB Seismic	0
AFGlobal	2
ENVENTURE	0
SLB DD	1
Franks	0
Total	160

Mud Materials on Board @24:00hrs (unit: kg)

Item	Received	Used	Stock
Barite (Bulk)		5,000	436,000
Caustic Soda			1,200
Lime			200
Soda Ash			775
Caustic Potash			2,025
Tel-Polymer DX / L / H			2,820/840/0
XCD-Polymer			925
Lignite NC			4,500
Clean Lube W			0
Tel Clean W			6,400
Astex-S			800
Deformer 30C		32	512
Tel DD			3,200
Bi-Carbonate			1,000
Citric Acid			2,275
Tan Cat M / F / FF			1,020 / 210 / 510
Telinite GXL			684
Treat-HS			9,200
Mud Seal P			130
Tel Plug C / M / F			500 / 500 / 500
Tel Stop P / G			500 / 260
Barolift		30	1,935
Driscoll D			0
Tel Flow P			0
Poro Seal			0
Steel Seal 50	(lbs)		1,000
KCI			9,000
NaCl			22,000
Fracseal	(lbs)		0
Stopseal	(lbs)		0
Bentonate(Bulk)			46,000

Heli Information @24:00

Fit.	Arrived	Time	Departed	Are.	Dept
1	9:15		9:28	7	8
2					
3					
4					

Safety (HSE) and other information

Incident	Last Incident	No. LTA
LTA		
HUNS cards	33	

Geologic Information @24:00

From	To	Lithology of cuttings

Shale Shaker / Centrifuge @24:00

No.	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)
No.1	30.230	No.4	30.230	#1-#3 Centrifuge running time							
No.2	30.230	No.5	30.230								
No.3	30.230	No.6	30.230								

Materials Stock on Board @24:00

Item	Unit	Stock	Used	Received
Fresh Water	m3	258.0	74.0	0.0
Potable Water	m3	262.0	4.0	0.0
Drill Water	m3	1,433.0	35.9	99.9
Fuel	m3	4,523.8	51.8	0.0
Lube Oil	Ltrs	81,300	0.0	0.0
Heli Fuel	Ltrs	0.0	0.0	0.0
Cement "GWC"	ton	186.0	0.0	0.0
Cement "G"	ton	97.0	0.0	0.0

Boat Information @24:00

Boat Name	Status	Time @Chikyū
		Departed
		Arrived
#8 Meiji-maru	Chikyū	
Akatsuki	Chikyū	
Shincho-maru	Chikyū	19:30

Weather Information

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	11.5	1021.4	7.0	20	8.8	1.0	10	4.5	0.8	174	22.0

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

Today's Schedule: Continue to POOH 8-1/2" x 12-1/4" LWD BHA to surface. Rig up expandable CSG handling equipment. Run expandable CSG.