

Chikyu DAILY MORNING REPORT

Mission No. : CK12-06 **Exp. No. : Exp 338**

Report No. : 41

Site Name : C0002 **Hole Name :** C0002F **Lat. :** 33° 18.0507'N **Long. :** 136° 38.2029'E **Report Date :** 11/Nov/2012
Depth : @24:00 3,963.50 mBRT 1995.50 mbsf **Progress :** 113.50 m **Seabed Depth :** 1,967.50 mBRT 642.5 RT-MSL 28.5 m
Depth : @06:00 3,973.50 mBRT 2006.00 mbsf **Drilling/Coring/Jetting Hrs. :** 21.50 hrs **LAST CASING :** 20 x 860.30 mbsf (2,827.8 mBRT)

Summary of Operation on 10-Nov : Drill 12-1/4" x 20" LWD hole with Anderreamer. Troubleshoot on CCB. Drill 12-1/4" x 20" LWD hole with Anderreamer.
 Present Operation on 06:00 on 11-Nov : Troubleshooting on mud pump

Time Breakdown (00:00 - 24:00 on 10-Nov) mBRT: meter below rotary table
 mbsf: meter below sea floor

From	To	Hrs	Code	Detail of Operation
0:00	6:00	6:00	DRL	Drill 12-1/4" x 20" LWD hole with Anderreamer 3849.5-3879mBRT, 29.5m. WOB: 44-153kN, pump: 240spm x 31.42-32.4MPa, HPS: 120-160rpm x 10-14kN-m. Meanwhile, Depart Shinchou-maru from Chikyu @3:40 with total 6ea full cutting skips. Stand by Kaiyu with 6ea full cutting skips.
6:00	7:45	1:45	RR(N)	Troubleshoot on screw conveyor to CCB. Full of cuttings inside screw conveyor (end part). Clean off. Meanwhile work pipe with 100spm x 8.0MPa.
7:45	18:15	10:30	DRL	Resume to drill 12-1/4" x 20" LWD hole with Anderreamer 3879-3966mBRT, 57m. WOB: 50-180kN, pump: 240spm x 30.9-33.9MPa, HPS: 150rpm x 11-16.8kN-m (hole inclination would be stable around 1degree, increase WOB to 180kN.)
18:15	19:00	0:45	RR	Change out for worn out #2 piston and liner of #1 mud pump. Meanwhile, work pipe with HPS: 44rpm and pump: 154spm x 15.3MPa.
19:00	24:00	5:00	DRL	Resume to drill 12-1/4" x 20" LWD hole with Anderreamer 3936-3963mBRT, 27m. WOB: 50-180kN, pump: 240spm x 30.9-33.9MPa, HPS: 150rpm x 11-16.8kN-m. ROP: 2.3-12.5m/h, ave 6.28m/h. Mud gas max: 0.63% @3892mBRT, C1 0.584, base: 0.3-0.5%. Meanwhile, Depart Kaiyu from Chikyu @10:45 with total 6ea full cutting skips. Arrive Shinchou-maru @15:15, loading 6ea empty cutting skips @16:45-19:40, standby @Chikyu. Arrive Kaiyu @20:20, loading 6ea empty cutting skips @23:10-23:45. Change lower shale shaker screen from #175-200 to #230 that main purpose decrease LGS. Encounter BOP fluid leakage on conduit line (15lit/min). Investigation on surface lines. Investigation riser conduit line from BOP to 1000mWD by ROV. NO leak found to 1060m. Isolated conduit line and supply hydraulic fluid from hotline. Daily routine inject 5gal glycol to LMRP and connector. Recover ROV to surface due to low pressure on hydraulic system with 3.5knot current situation @23:30. (00:00-17:00) Keep blowing 50-100% ROV thruster against well head to avoid hydrate accumulation. Current survey around C0002 site by supply boat and watch boat. - Kaiyu (00:00-10:45, 22:20-24:00) max 4.3 knot, 5 miles SW from Chikyu and at the site for loading. - Shinchou (00:00-03:40, 15:15-24:00) max 4.1 knot, at site for loading. - Hakuryu (00:00-24:00) max 4.4knot, Ave 3.3knot, 5miles & 1 mile SW from Chikyu. - Chikyu (00:00-24:00) max 4.09 knot, ave 3.5knot, Doppler data.

Survey Depth mBRT	Inc. deg	Azimuth deg
3830.30	1.00	137.82
3869.01	1.01	137.93
3906.90	0.95	140.16

Time Breakdown (00:00 - 06:00 on 11-Nov) The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Detail of Operation
0:00	0:30	0:30	DRL	Continue to drill 12-1/4" x 20" LWD hole with Anderreamer 3963-3966mBRT, 3m. WOB: 50-180kN, pump: 240spm x 30.9-33.9MPa, HPS: 150rpm x 11-16.8kN-m.
0:30	1:15	0:45	RR	Change out wash pipe mechanical seal.
1:15	3:00	1:45	DRL	Resume to drill 12-1/4" x 20" LWD hole with Anderreamer 3966-3973mBRT, 7m. WOB: 50-180kN, pump: 240spm x 30.9-33.9MPa, HPS: 150rpm x 11-16.8kN-m.
3:00	4:00	1:00	RR	Change out for worn out two pistons of #2 mud pump. Meanwhile, work pipe with HPS: 45rpm and pump: 100spm x 8.1MPa.
4:00	4:15	0:15	DRL	Resume to drill 12-1/4" x 20" LWD hole with Anderreamer to 3973.5mBRT. WOB: 50-180kN, HPS: 150rpm x 11-16.8kN-m.
4:15	6:00	1:45	RR	Found pressure drop (240spm 27Mpa). Check surface line and trouble shooting on Mud pump. Change out for worn out one piston of #3 mud pump. Meanwhile, work pipe with HPS: 45rpm and pump: 100spm x 5.5MPa. Check all valve and strainer of #2 pump due to low pressure than before. (8.1Mpa vs 5.5Mpa) Shinchou-maru depart from Chikyu without 13ea full cutting skips @02:20 ROV on deck and repairing on going.

Survey Depth mBRT	Inc. deg	Azimuth deg
3947.96	0.95	139.78

Bit Record

Bit No.	Size (in)	MFR	Type	IADC Code	S.No.	Nozzles		Depth (mart)		Meter-age	Hrs.	WOB (kN)		rpm	Total Rev. (krev)	Dull Condition							
						From	To	Min.	Max.			Inner	Outer			Dull	Loc.	B	G	O.D.	RP		
1	12.25	NOV	DSH616D-I2	M423	A162762	5 x 12, 4 x 13	2843.0	3,963.00	1,120.0	86.11	10	230	60	150	725.0								
1	16.5	NOV	CST			3 x 10, 2 x 12																	
20	20	NOV	Anderreamer			1 x 8																	

BHA Record No.1 12-1/4"Bit x GVR x ARC-8 x Telescope x 12-1/8" ILS x sonicVISION x 12-1/8" Slab x 8-1/2" DC(1) x CST x Anderreamer x F/S x 9-1/2" DC(2) x 17" Slab x 9-1/2" DC(1) x XO x 8-1/2" DC(3) x 7-3/4" Jar x 8-1/2" DC(3) x XO x 5.68" HWDP(12) x XO x 5" DP (S-140) 46 stds x 5-1/2" DP(S-150)

Mud Properties

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Gal St. (10", 10")	WL	Cake	pH	Pf	Cl-	Sand	Oil	Solid	K+	LGS	MBC	Temp (In / Out)	n	K		
KNPP	2:00	3,858	1.10	81	33	36	7	9	3.7	0.5	10.1	0.2	50.400	0.1	0	6	25.800	2.5	1.00	16	15	0.56	2.05
KNPP	09:00	3,880	1.11	82	32	38	7	9	3.7	0.5	10.2	0.2	51.100	0.1	0	6	25.800	2.5	1.00	15	15	0.54	2.37
KNPP	16:00	3,927	1.10	84	33	38	7	9	3.8	0.5	10.0	0.2	50.100	0.1	0	6	26.400	2.5	1.25	16	15	0.55	2.28

Mud Pumps : 14-P-220 @ 3963.0 mBRT 4.98 gallon/stroke @97%

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)	DC	DP
1	6"						
2	6"	240	1195	31.0	27	24	
3	6"						

Geologic Information

From	To	Lithology of cuttings
3838	3863	Claystone 100%
3863	3898	Claystone 95-100%, Siltstone 11-5%
3898	3948	Claystone

Shale Shaker

No.	#20 x 3/230 x 4	No.4	#20 x 3/230 x 4	No.1	24.00
No.2	#20 x 3/230 x 4	No.5	#20 x 3/230 x 4	No.2	24.00
No.3	#20 x 3/230 x 4	No.6	#20 x 3/230 x 4	No.3	24.00

Materials Stock on Board @24:00

Item	Unit	Received	Used	Stock
Fresh Water	m3	99.5	111.2	225.2
Potable Water	m3	0.0	23.2	182.2
Drill Water	m3	0.0	17.5	2,050.4
Fuel	m3	0.0	74.7	5,109.4
Lube. Oil	Ltrs	0.0	0.0	101,300.0
Helix Fuel	Ltrs	0.0	0.0	800.0
Cement "G"	ton	0.0	0.0	356.0

Boat Information @24:00

Boat Name	Status	Time @Chikyu	
		Departed	Arrived
Kaiyu	Chikyu	10:45	22:20
Shinchou-maru	Chikyu	03:40	15:15
Hakuryu-maru	Chikyu / current survey		

Weather Information

Time	Weather	Temp. (deg.C)	Barometer (hPa)	Wind (m/s)	Dir. (deg)	Gust (m/s)	Height (m)	Dir. (deg)	Period (s)	Current Speed(knt)	Dir. (deg)	Visibility (km)
24:00	c	18.0	1021.8	6.5	70.0	6.9	1.1	0	8.5	3.4	90	22.0

Today's Schedule : POOH string above BOP. Stand-by for southern Strong wind (rough weather).

Reported by : T. Otani / D. Ikenomoto
 Approved by : T. Sanuhashi