

Chikyu DAILY MORNING REPORT

Mission No.: CK12-06

Exp. No.: Exp 338

Report No.: 89

Site Name : C0022 Hole Name : C0022A Lat. 33°10.0680'N Long. 136°43.4540'E Report Date : 29/Dec/2012
 Depth : @24.00 2,840.00 mBRT 135.50 mbsf Progress : 135.50 m Seabed Depth : 2,704.50 mBRT RT-MSL : 28.5 m
 Depth : @06.00 2,882.00 mBRT 177.50 mbsf Drilling/Coring/Jetting Hrs. : 4.50 hrs LAST DRILL : x mbsf(mBRT)
 Summary of Operation on 28-Dec : Continue deploy transponder. DP calibration. Run LWD assembly. Spud C0022A hole. WOW.
 Present Operation to 06:00 on 29-Dec : WOW. Resume drill LWD hole. mBRT: meter below rotary table
 mbsf: meter below sea floor

From	To	Hrs	Code	Detail of Operation
0:00	1:45	1:45	Other	Continue to deploy transponders. (01:08) BCN #907 on seabed. Move vessel. (01:08) Vessel arrive at BCN #311 deploy point. (01:16) Deploy BCN #311. (01:43) BCN #311 on seabed.
1:45	5:30	3:45	Other	DP calibration. (1:45-2:28) Move vessel to well center. (2:30-5:30) DP calibration. (5:00-5:30) Prepare running LWD assembly. Make up bit and LWD assembly, check LWD tool. (5:30-6:15) LWD shallow test. 140spm x 3.8-4.1 MPa - OK.
5:30	7:30	2:00	Other	Move vessel up current 1.5 mile from well center.
7:30	11:15	3:45	Trip	Make and run 12-1/4" LWD assembly to 1557mBRT.
11:15	11:30	0:15	SURV/Vehicn	LWD test @ 1557mBRT. 140spm x 8.9-9.1 MPa - OK
11:30	14:45	3:15	Trip	Continue run 12-1/4" LWD assembly to 2680mBRT. Fill up seawater every 10 stds.
14:45	15:15	0:30	Other(N)	Attempt to activate AHC for testing and collecting data requested by CDEX Technology Develop. group, unsuccessfully. Troubleshoot for make stand-by mode on AHC, couldn't find the cause of malfunction. Decided suspend Test of AHC until find the cause of malfunction.
15:15	16:00	0:45	Trip	Resume run to 2703mBRT. Check LWD test. 140spm x 11.0MPa - OK.
16:00	17:30	1:30	W&R	Spud in C0022A. Confirm seabed from LWD resistivity. Official seabed depth: 2704.5mBRT. Wash down 2704.5-2744.5mBRT (0-40mbsf, 40m) with 140spm x 11.0MPa. WOB: 0.20 kN. Control drilling (Set auto driller, Ave. ROP: 40m/hr, Max 40m/hr).
17:30	22:00	4:30	DRL	Drill 12-1/4" LWD hole 2744.5-2840BRT (40-135.5mbsf, 95.5m). WOB: 0-20kN, Pump: 140spm x 10.9-11.3MPa. 40-45mbsf: 15rpm x 0.6-2.5kN-m. 45-50mbsf: 30rpm x 0.9-3.4kN-m. 50-60mbsf: 45rpm x 0.5-4.7kN-m. 60-65mbsf: 60rpm x 0.8-4.4kN-m. 65-82mbsf: 80rpm x 1.1-7.9kN-m. 82-111mbsf: 70rpm x 1.1-7.9kN-m. 111-135.5mbsf: 90rpm x 0.9-14.1kN-m. * Increase HPS speed due to high stick slip ratio. Sweep out 5m3 SWG before every connection. DP status change Green to Advisory @20:00. DP status change Advisory to Yellow @23:30.
22:00	23:30	1:30	P&A	Spot 1.30sg kill mud 11m3 and displace 24.5m3 seawater. POOH to 2740mBRT. (22:20) Run ADG x 2 + MDG x 6. Wind speed ave 20.4m/s, max 23.4m/s. Current 3.8-3.9knot.
23:30	24:00	0:30	WOW	Connect single joint of 5-1/2" S-150 for space out. (23:30) Set DP status Yellow due to CA margin 0%. Max wind speed 35m/sec. (23:45-24:00) Wind direction change from SSW to N. (Wind speed 25m/s to 10-15m/s) Max DP deviation, 21m. Watch boat "Hakuryu-maru" back to Shingu port to send emergency patient to hospital. Supply boat "Shincho-maru" back to Chikyu to stand-by for Heli-operation for Hakuryu-maru (3:50-9:15). She back to Shingu base for loading materials (9:15-14:00).

Sensor Offset from Bit (m)		Survey Data		
GVR Gamma Ray	1.12	depth (mBRT)	inclination (deg)	azimuth (deg)
Ring Resistivity	1.39	2708.80	0.33	60.18
BD Resistivity	1.59	2747.11	0.49	219.94
BM Resistivity	1.77	2785.26	0.37	219.37
BS Resistivity	1.89			
APWD	5.94			
ARC Resistivity	6.65			
ARC Gamma Ray	6.70			
IWOB	10.84			
D=1	14.19			

Weather Condition							
Time	Ave (m/s)	Dir. (deg)	Gust (m/s)	Wave Height (m)	Period (s)	Speed (knot)	Dir. (deg)
16:00	11.0	150	14.2	1.0	6.9	3.4	71
18:00	14.5	160	17.1	1.7	6.7	3.5	82
20:00	20.4	170	23.4	2.0	7.0	3.8	79
22:00	21.6	179	24.0	3.0	7.5	3.9	80
24:00	20.3	202	21.2	3.6	8.1	3.7	78

From	To	Hrs	Code	Detail of Operation
0:00	3:00	3:00	WOW	WOW due to rough weather. (03:00) DP status change Yellow to Advisory @01:00. DP status change Advisory to Green @03:00.
3:00	3:30	0:30	Trip	Run LWD assembly to 2800mBRT.
3:30	3:45	0:15	C&C	Connect HPS. Confirm MWD signal. Ream down w/140spm x 10.8-11.2MPa. 50RPM x 0-1.6kNm.
3:45	6:00	2:15	Drig	Drill 12-1/4" LWD hole 2840-2882mBRT (135.5-177.5mbsf, 42m). 140-150-160spm x 11-15.2MPa (increase pump rate to noise signal 80RPM x 0-7kNm, WOB 0.50kN). Control drilling around 40m/hr (set auto driller ave 48m/hr).

Weather Condition							
Time	Ave (m/s)	Dir. (deg)	Gust (m/s)	Wave Height (m)	Period (s)	Speed (knot)	Dir. (deg)
02:00	13.3	19	14.4	3.3	7.9	3.6	86
04:00	9.3	34	10.2	3.0	7.9	2.9	83

Survey Data		
depth (mBRT)	inclination (deg)	azimuth (deg)
2,862.46	0.29	291.96

Bit No.	Size (in)	MFR	Type	IADC Code	S.No.	Nozzles	Depth (mBRT)	Meter-age	Hrs.	WOB (kN)	rpm	Total Rev. (krev)	Dull Condition														
													Inner	Outer	Dull	Loc.	B	G	O.D.	RP							
RR2g	12.25	NOV	DSH606D-I2	423	A162762	12 x 7, 11 x 2	2704.50	2840.00	135.5	3.05	0	20	15	90													

BHA Record												Hook Wt. (kN) @24:00				
LWD	RR2d	12-1/4" Bit x GVR-8 with 12-1/8" Stab (with float valve) x ARC-8 x Telescope 825HF x NM XO sub x NMDC x 12-1/8" Stab x 8-1/2" DC (9) x 7-3/4" L Jar x 8-1/2" DC (3) x XO x 5-1/2" DP S-150 (12) x XO x 5" DP S-140 (2) x XO x 5-1/2" DP S-150.										2,740.0 mBRT				
												BHA (below 30ths of 5-1/2" DP S-150)				390
												BHA (below 8-1/2" DC)				345
												Below Jar				235
												Hook load				2020
												Hook block w/HPS				720

Mud Properties																						
Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Gel St. (10", 10')	WL	Cake	pH	PI	CI	Sand	Oil	Solid	K+	LGS	MBC	Temp (In/Out)	n	K	
SWG		Pit	1.04	83	6	40	11	12		10.8									18	0.18	15.27	
kill mud		Pit	1.30	96	26	36	21	24		8.7									18	0.51	2.66	

Mud Pumps - 14-P-220 @ 2840.0 mBRT												Mud Materials on Board @24:00hrs											
No.	Liner Size	SPM	GPM	Press (MPa)	Ann. Vel (m/min)	DC	DP	Item	Received	Used	Stock												
1	6"	140	697	11.3	89	49	MOJ Crew	0	11,000	0	321,000												
2	6"						MOJ (other)	0	0	0	2,000												
3	6"						MOJ (add subsea E)	0	0	0	0												
							MWJ	0	0	0	1,820												
							NME	0	0	0	14,000												
							Scientist, IODP	16	0	0	0												
							Teintie	1	0/0/0	0/0/0	0/4080/2060												
							Oceanseering	0	0	0	325												
							NOV	0	0	0	1,350												
							KOH	0	0	0	2,225												
							AXON	0	0	0	1,000												
							SES	0	0	0	6,400												
							Vetogray	0	0	0	0												
							Geoservices	0	0	0	4,800												
							Astex S	0	0	0	0												
							Schlumberger-CMT	0	0	0	0												
							Schlumberger-HL	0	0	0	0												
							Schlumberger-LWD	2	0/0	0/0	160/160												
							Frank's	0	0	0	342												
							Blohm Vess	0	0	0	0												
							NOV-Andersramer	0	0	0	0												
							Riser Inspector	0	0/0	0/0	0/0												
							Core-IRM	5	0/0/0	0/0/0	0/0/0												
							Total	150															

Cutting skip @24:00			
Load (E)	Empty	Full	Other
Kaiyu	0	0	0
Shincho-maru	0	0	0
Offload (F)	0	0	0
Kaiyu	0	0	0
Shincho-maru	0	0	0
total	0	0	0

Heli Information					
Flt. No.	Arrived	Time	Departed	Passenger	Dept.
1	09:00		09:10	9	7
2					
3					

Safety (HSE) and other information		
Incident	Last Incident	No. LTA
LTA		
HUNTS cards	20	
Remarks		

Marine Information @24:00	
Heave (m)	1.6
Pitch (deg)	1.1
Roll (deg)	0.5
Vessel Heading (deg)	258
Riser Tension (kN)	10451.8
V.D. Load (Moon)	
Max Draught (m)	9.0
Thruster (kW)	5300

Weather Information		Temp. (degC)		Barometer		Wind		Wave		Current		Visibility	
Time	Weather	Air	SW	(hPa)		Speed (m/s)	Dir. (deg)	Height (m)	Dir. (deg)	Period (s)	Speed(knt)	Dir. (deg)	(km)
24:00	RR2d	17.5	20.9	1011.2		10.5	327.0	12.4	3.6	210	3.7	78	9.0

Today's Schedule : Drill LWD hole. Spot kill mud. POOH.

Reported by : S. Katakata / D. Ikonomoto
 Approved by : T. Sawada