

Chikyu DAILY MORNING REPORT

Mission No. : CK13-04

Exp. No. :

Exp 348

Site Name : **C0002** Hole Name : **C0002P** Lat. **33° 18.0507'N** Long. **136° 38.2029'E**
 Depth : @24:00 **5022.0** mBRT **3054.5** mbsf Progress : **297.00** m Seabed Depth : **1,967.50** mBRT RT-MSL : **28.5**
 Depth : @06:00 **5026.0** mBRT **3058.5** mbsf Drilling/Coring/Jetting Hrs. : **24.00** hrs LAST CASING : **13-3/8"**
 Summary of Operation on **30-Dec** : Continue drilling 12-1/4" hole from 4725mBRT to 5022mBRT.
 Present Operation @ 06:00 on **31-Dec** : Short trip (Back reaming)
 Time Breakdown (00:00 - 24:00 on **30-Dec**)

From	To	Hrs	Code	Detail of Operation
0:00	24:00	24:00	Drig	Continue to drill 12-1/4"LWD hole 4725-5022mBRT (2757.5-3054.5mbsf. 297m). WOB: 5-152kN HPS: 64-102RPM x 16.4-23kNm, Mud motor revolution 88-109RPM. Pump: 825gpm x 35.9-38.0Mpa. Boost on riser 4.1Mpa/400gpm. ROP: Ave: 16.3m/hr, Min:5.7m/hr(4726.5m), Max: 29.4m/hr(@4923m) Mud gas : Back ground gas: 0.15-0.9% Caved cuttings --r (11:00 - 14:00) Stopped booster to repair #3 mud pumps. (19:00 - 21:30) Cutting shoot was plugged with cuttings. Reduced boosting rate and continue drilling while cleaning shoot.
				Note:
				ROV on deck. Trouble shooting on going. Lost communication to ROV cage, debris blocked signal at the connector. Repaired. Trouble shoot ROV secondary communication line, unable to repair (Primary is OK). Piston on MEG tank was failed. 3ea of MEG tank are available capacity: 99gal. Sea current: Chikyu 1.7-2.5 knot. SW 5miles 2.4-3.4 knot. Kaiko: Finished repair, back on location at 15:15.
				BOP status
				Yellow pod 1. Lower annular close: SPM leak 2. Lower annular open: malfunction (SV and PS problems) 3. Upper inner choke open: SPM leak 4. Upper inner choke Close: Indication Pressure SW prot 5. Lower inner choke Close: Indication Pressure SW prot 6. Choke Isolation valve close : leak 7. Wellhead connector reg decrease: malfunction 8. Upper annular close: SPM leak

Time Breakdown (00:00 - 06:00 on **31-Dec**) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Detail of Operation
0:00	0:15	0:15	Drig	Continue to drill 12-1/4" LWD hole to 5022-5026mBRT (3054.5-3058.5mbsf.4m). WOB: 66-73kN HPS: 99RPM x 19.6-21.0kNm, Mud motor revolution 108RPM. Pump: 825gpm x 37.2-37.9Mpa ROP: Ave: 16.6m/hr, Min:13.3m/hr(@5025m), Max: 16.1m/hr(@5024m) Mud gas : Back ground gas: 0.15-0.77% Caved cuttings --r
0:15	0:45	0:30	W&R	Pick up w/60rpm rotation. Observe HPS stall 6times @ 5020.4-5020.0mBRT. Increase rotation to 100rpm and upreaming gradually.
0:45	4:15	3:30	C&C	Sweep out 10m3 of hi-vis mud w/850gpm x 36-37.5Mpa. HPS 30mp x 13-15kN-m
4:15	4:45	0:30	Trip	POOH for short trip from 5026mBRT. Observe 200kN of over pull @4968m.
4:45	6:00	1:15	W&R	Connect HPS and Pump out from 4968m to 4961mBRTw/600gpm x 22Mpa. Observe over pull 250kN @4961mBRT. Back ream from 4961m to 4947mBRT w/800-850gpm x 33-36Mpa. 60rpm x 16-30kN-m (HPS torque limit set 30kN-m).
				Note:
				ROV trouble shooting and prepare for diving (0:00-5:00). ROV dive from 5:00. Watch boat Hakuryu-maru depart 4:00 for Katsura port. Sea current: Chikyu 2.0knot. SW 5miles 3.0knot.

Bit Record

Bit No.	Size (in)	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mart)		Meter-age	Hrs.	WOB (kN)		rpm		Total Rev. (krev)	Inne
							From	To			Min.	Max.	Min.	Max.		
8	12.25"	Smith	MDJ516BPX (PDC)	M223	JG7525	14 x 7	4,186.0	5,022.0	836.0	56.32	4	163	164	216	826.5	
						(Open hole)	4130.00	4,186.00	56.0	3.88	4	102	130	213	58.2	

BHA Record

No.8	12-1/4" LWD	Bit x PDM x Float sub (non-ported) x 12-1/4" stab x AFR x MS (AGR+EMR+PWD+HCM) x XBAT x HOC x 8-1/2"DC(12) x Drilling Jar x XO x 5.68"HW(12) x XO x 5"DP S-140 (65stds) x 5-1/2"DP S-140 (21stds) x XO x 5-1/2"DP S-150 (15stds) x XO x 6-5/8"DP Z-140
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Mud Properties

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Gel St. (10", 10')	WL	Cake	pH	Pf	Cl-	Sand	Oil	Solid	MBC	Temp		K+	n	
																	In	Out			
KNPP	4:00	4,772	1.28	107	44	56	11	14	2.5	0.5	11.0	0.2	120,700	0.2	0	13.0	1.50	14	12	32,400	0.53
KNPP	17:00	4,940	1.28	106	43	57	11	14	2.6	0.5	11.0	0.2	117,200	0.2	0	13.0	1.50	15	13	31,200	0.53

Mud Pumps : 14-P-220 @ 5022.0 mBRT 5.00 gallon/stroke @97%

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"				DC DP
2	6"	164	820	38.0	71 49
3	6"				

Personnel @24:00

CDEX	7
MQJ Crew	96
MQJ (SC Other)	1
MQJ (Sub sea & Hyd)	3
MWJ	16
Scientist	24
Telnitel	2
Oceanengineering	6
Schlumberger-CMT	1
SLB WL	0
Geoservice	6
Velco	1
Halliburton-LWD	3
Halliburton-DD	1
Weatherford (CSG)	0
MI-Swaco	4
NOV Anderreamer	1
Total	172

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

Item	Received	Used	Stock
Barite (Bulk)			169,700
Kunigel-VO (Bulk)			10,800
NaCl		1,000	22,000
KCl		2,000	15,000
Tel-Polymer DX / L / H		100/100/0	5140/2300/1460
XCD-Polymer		75	250
Soda Ash		100	1,400
KOH		125	2,250
Clean Lube		1,600	10,400
Tel Clean		600	2,000
Bi-Carbonate			1,000
Lime			1,240
Defoamer 30C			192
Telnitel GXL			36
Tel DD			3,200
NaOH			800
Lignite NC			2,000
Tel Stop G / P			500 / 1,000 / 1,000
Tel Mica C / M / F			500 / 1,000 / 980
Tel Plug C / M / F			500 / 1,200 / 980
Tan Cal M / F / FF			4230 / 4500 / 0
EZ Spot			550
Speeder P / X			1700 / 1700
Baracor-100 (gal)			0
Astex S		800	2,800

Mud Volume (m3)

KNPP mud (1.28)	311
KNPP mud (1.11)	99
KNPP mud (1.16)	77
KNPP mud (1.23)	45

Geologic Information

From	To	Lithology of cuttings
4613.0	4683.0	Claystone 90-100, Siltstone 0-10
4683.0	4763.0	Claystone 100, Siltstone tr
4763.0	4983.0	Claystone 100, Siltstone tr

Shale Shaker

No.	#10, #200 x 2	No.4	#10, #180 x 2	No.1	4.5
No.1	#10, #200 x 2	No.5	#10, #200 x 2	No.2	off
No.2	#10, #200 x 2	No.6	#10, #180 x 2	No.3	off

Materials Stock on Board @24:00

Item	Unit	Received	Used	Stock
Fresh Water	m3	93.9	97.9	296.6
Potable Water	m3	0.0	8.3	(8.3)
Drill Water	m3	0.0	23.6	(23.6)
Fuel	m3	0.0	64.4	(64.4)
Lube, Oil	Ltrs	0.0	500.0	(500.0)
Helix Fuel	Ltrs	0.0	0.0	0.0
Cement "GWC"	ton	0.0	0.0	0.0
Cement "G"	ton	0.0	0.0	0.0

Boat Information @24:00

Boat Name	Status	Time @Chikyu

Ship Name	Activity	Departed	Arrived
Kaiko	Current survey @SW 5miles	-	15:15
Shinchou-maru	Stand-by	3:30	19:30
Hakuryu-maru	Current survey	-	-

LCM 20% (1.13)	24
Hi-vis (1.28)	56
KNPP (1.52)	15
total	708

Treat HS				0
Xarvis				700
Telnite OS-5				0
Telnite HEC				0

Weather Information

Time	Weather	Temp. (degC)		Barometer (hPa)	Wind			Wave			Current		Visibility (km)
		Air	SW		Speed (m/s)	Dir. (deg)	Gust (m/s)	Height (m)	Dir. (deg)	Period (s)	Speed(knt)	Dir. (deg)	
24:00	bc	9.0	19.2	1016.7	11.2	271.0	13.5	0.9	271	5.2	2.5	113	22.0

Today's Schedule: Short trip. Condition mud. Resume drilling.

Report No. : 109

Report Date : 31/Dec/2013

m
x 1,936.50 mbsf(3,904.0 mBRT)

mBRT: meter below rotary table
mbsf: meter below sea floor

Sensor distance to bit (m)	
AFR	13.76
PWD-M5	16.02
AGR	16.23
DDS-M5	16.79
EWR-M5	19.03
XBAT	26.34
MWD	31.45

*mud motor revolution factor: 0.13 rev /gal

Blue pod

1. Mud boost valve open: SPM leak.
2. Choke isolation valve: leak.
3. Pod stab extend: indication pressure SW problem.

blem
blem

Dull Condition

Outer	Dull	Loc.	B	G	O.D.	RP

Hook Wt. (kN) @ 4,988.0 mBRT

Hook Load	3,076
BHA	390
Below Jar	300
Hook + HPS	730
Hook block	307

Jar Rotating time S/N: 1762-1353

Today	18.23	Total	78.12	hrs

Cutting skip @24:00

Empty	Full	Total
51	0	51

ROV

Status	on deck
Last Dive	2013.12.26
Injection Skid	- /99 gal

K	LGS
3.76	2.1
1.98	2.3

Helicopter Information

Flt. No.	Time		Passenger	
	Arrived	Departed	Are.	Dept.
1				
2				
3				
4				

Safety (HSE) and other information

Incident	Last Incident	13/Feb/2013	No. LTA
LTA			
HUNTS cards		21	
Remarks	Bi-weekly safety meeting were held.		

Marine Information @24:00

Heave (m)	0.2
Pitch (deg)	0.2
Roll (deg)	0.3
Vessel Heading (deg)	288

Riser Tension (kN)	9400
V.D. Load (Moon)	11835.0
Max Draught (m)	9.0
Thruster (kW)	2300

Reported by : S.Yamada / D. Ikenomoto

Approved by : Y. Uemura