Chikyu DAILY MORNING REPORT

Mission No. : CK13-04 **Exp. No. :** Exp 348 **Report No. :** 51

Site Name : C0002 **Hole Name :** C0002F **Lat.** 33° 18.0507'N **Long.** 136° 38.2029'E **Report Date :** 3/Nov/2013

Depth : @24:00 **2274.0** mBRT **306.5** mbsf Progress : m Seabed Depth : **1,967.50** mBRT RT-MSL : **28.5** m

Depth : @06:00 **2426.0** mBRT **458.5** mbsf Drilling/Coring/Jetting Hrs. : **0.00** hrs LAST CASING : **20"** x **860.30** mbsf(2,827.8 mBRT)

Summary of Operation on **2-Nov** : POOH BOP isolation test tool. M/U and RIH 17"RSS BHA. Check TOC of #2 CMT plug. Displace riser with KNPP mud.

Present Operation @ 06:00 on **3-Nov** : Pull 5-1/2" S-150 stand to replace with 5" S-140 stand.

mBRT: meter below rotary table

mbsf: meter below sea floor

Time Breakdown (00:00 - 24:00 on **2-Nov**

From	To	Hrs	Code	Detail of Operation
0:00	6:15	6:15	BOPE	POOH BOP isolation test tool to surface.
				BOP isolation test tool hanged at lower and upper annular. Use CMC to pass through (Lower Annular: 6kN, Upper Annular: 20kN).
				Function test DSV from blue POD on drill floor (BHA 120m above BOP). Pressure test same with 300/1400psi for 5/15min - OK (*10).
				Note: Test was conducted with ram block in force close.
6:15	13:30	7:15	TRIP	Make up and RIH 17"RSS BHA to 202.27mBRT.
				Program LWD tool on rotary table. Mandrel length of Jar: 20.5".
				Meanwhile,
				Function test DVS and super shear ram from both Yellow and Blue PODs with normal and high pressure.
				Pressure sensor on super shear ram close is malfunction, verified function from flow meter, all functions are OK.
				Check function of hydraulic and maltway stab with Yellow and Blue PODs.
				Function all rams, Wellhead Connector to "Block" and Yellow acoustic charge to "isolate" -OK.
				Function "Retract" and "Extend", confirm to function with ROV - OK. Back to status of all rams and wellhead connector.
13:30	14:45	1:15	TRIP	Shallow hole test of LWD.
				Rotate HPS 5 to 40 rpm for lubricate seal of Rotary Steerable tool.
				Start pump to 700gpm x 10.1MPa. Check MWD signal - OK.
				Increase pump rate to 750gpm and check function of down link system - OK.
14:45	15:15	0:30	TRIP	Calibrate hook sensor with Halliburton engineer.
15:15	21:30	6:15	TRIP	Continue RIH 17"RSS BHA to 2239.3mBRT. Fill up seawater every 15 stands.
				Take WOB 46.8kN @2238.8mBRT, run down. Take WOB 50kN while run down and drag 100kN while pick up @2255.0mBRT.
				POOH to 2239.3mBRT and rack back 5"DP S-140 1stand.
				Wash down to 2275.7mBRT, 350gpm x 3.8MPa, 50rpm x 1.9-2.4 kN-m. Stop pump and check hole condition, no drag.
				Meanwhile, pressure test DVS for EDS situation.
				"Close" DVS, "Lock" ST lock and "Block" DVS. Pressure test 300spi x 5min, 1400psi x 10min - OK.
				Continue pressure test choke & kill manifold.
21:30	23:30	2:00	RS	Pressure test lBOP on HPS, 300psi x 5min and 6000psi x 10min - OK.
				Meanwhile, displace choke (1105cts.), kill (970cts.) and booster line (958cts.) with KNPP mud.
23:30	24:00	0:30	C&C	Displace riser with KNPP mud @2274.0mBRT.
				900gpm x 22.4MPa with HPS: 20rpm.
				Notes:
				ROV injected 5gal of mono ethylene glycol on wellhead and LMRP connectors.
				* number is correlate to test # in MQJ BOP test procedure.

	Angle	Deg
LFJ	0	0.00
LMRP	130	0.25
BOP	160	0.25

Bulls eye reading @13:58

Time Breakdown (00:00 - 06:00 on **3-Nov**) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Detail of Operation
0:00	3:00	3:00	C&C	Continue displacing riser with KNPP mud. 22,200strokes for bottom up.
				Take return of contaminated sea water from 18,000 strokes. Divert to reserve tank.
				Take return of new mud from 22,400 strokes. Stop circulation to line up system.
				Fill up sand trap to the pit.
3:00	3:45	0:45	Trip	Resume pumping and wash down to tag cement at 300gpm, 20RPM, CMC in mid stroke. Line up booster with 400gpm.
				Tag top of cement at 2316m with 45kN.
3:45	5:00	1:15	CMT	Drill out cement from 2316 to 2390mBRT. WOB: 0-20kN, RPM: 20-50rpm, Torq: 1.2-1.4kN-m, Flow: 500-700gpm, SPP: 14.6MPa.
5:00	6:00	1:00	Trip	Wash down to 2428m to check cement is cleared. Pull and rack back 5-1/2" S-150 stand to replace to 5" S-140 stand.
				Note:
				(2:45) Tensioner tension was increased to 8300kN after displacing hole with mud.
				(3:50) ROV check for riser leak, confirm no leak.
				Sea current @ Chikyu: 0.6knot, 5miles SW: 1.3knot. Refer sea current sheet for more detail.

Bit Record

Bit No.	Size (in)	MFR	Type	IADC Code	S/No.	Nozzles	Depth (mart) From	Depth (mart) To	Meter-age	Hrs.	WOB (kN) Min.	WOB (kN) Max.	rpm Min.	rpm Max.	Total Rev. (krev)	Dull Condition Inner	Outer	Dull	Loc.	B	G	O.D.	RP
1	17	NOV	PDC	M422	E178656	6 x 14																	

BHA Record

17"RSS	1	17"Bit x Sleeve Stab x Geopilot9600 w/near bit Stab x Flex Collar x 16-7/8" IL Stab x 8"DGR x 8"EWR X 8"PWD x 8"HCIM x HOC x MWD Down screen x Float Sub (w/float) x 8-1/2"DC(12) x 8" Hydraulic Jar x 8-1/2"DC(2) x XO x 5.68"HWDP(12) x XO x 5"DP S-140 53 stds x XO x 5-1/2"DP S-150

Hook Wt. (kN) @ 2,253.0 mBRT

Hook load	1,900
BHA	410
below HWDP	315
below Jar	279
Hook block & HPS	740
Hook block	460

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 In	Temp Out	K+	n	K	LGS
KNPP	16:00	Pit	1.12	94	33	18	4	5	4.8	0.5	9.7	0.2	75,900	Tr	0	6	0.5	24		28000	0.65	0.60	0.3

Cutting skip @24:00

Empty	Full	Total
60	0	60

Mud Pumps : 14-P-220 @ 1938.1 mBRT 5.00 gallon/stroke @97%

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min) DC	Ann. Vel. (m/min) DP
1	6"	180	900	22.6	21	18
2	6"					
3	6"					

Personnel @24:00

CDEX	7
MQJ Crew	99
MQJ (SC,Other)	1
MQJ (Sub sea & Hyd)	4
MWJ	18
Scientist	2
Telnite	2
Oceaneering	6
Schlumberger-CMT	1
SLB WL	0
Geoservice	6
Vetco	1
Halliburton-LWD	3
Halliburton-DD	2
Weatherford	0
MI-Swaco	4
Total	156

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

Item	Received	Used	Stock
Barite (Bulk)	0	0	237,860
Kunigel-VO (Bulk)	0	0	12,000
NaCl	0	0	48,000
KCl	0	0	36,000
Tel-Polymer DX / L / H	0/0/0	0/0/0	6760 / 4380 / 2060
XCD-Polymer	0	0	2,625
Soda Ash	0	0	1,975
KOH	0	0	2,225
Clean Lube	0	0	24,800
Tel Clean	0	0	4,800
Bi-Carbonate	0	0	1,000
Lime	0	0	1,240
Defoamer 30C	0	0	208
Telnite GXL	0	0	54
Tel DD	0	0	3,200
NaOH	0	0	800
Lignate NC	0	0	2,000
Tel Stop G / P	0 / 0	0	500 / 1000
Tel Mica C / M / F	0 / 0 / 0	0	500 /500 / 1000
Tel Plug C / M / F	0 / 0/ 0	0	500 /500 / 1000
Tan Cal M / F / FF	0 / 0	0	1920 / 1920
EZ Spot	0	0	550
Speeder P / X	0 / 0	0	1700 / 1700
Baracor-100 (gal)	0	0	0
Astex S	0	0	0
Treat HS	0	0	0
Rester	0	0	0
Telnite OS-5	0	0	0
Telnite HEC	0	0	0

ROV

Status	Standby
Last Dive	2013/11/2
Injection Skid	125 /135 gal

Geologic Information

From	To	Lithology of cuttings

Heli Information

Flt. No.	Time Arrived	Time Departed	Passenger Are.	Passenger Dept.
1	08:31	08:37	0	4
2				
3				
4				

Shale Shaker Centrifuge: hrs

No.1	#20, #110 x 2	No.4	#20, #84 x 2	No.1	
No.2	#20, #110 x 2	No.5	#20, #84 x 2	No.2	
No.3	#20, #110 x 2	No.6	#20, #84 x 2	No.3	

Safety (HSE) and other information

Incident	Last Incident 13/Feb/2013	No. LTA
LTA		
HUNS cards	22	
Remarks		

Materials Stock on Board @24:00

Item	Unit	Received	Used	Stock
Fresh Water	m3	93.5	88.3	306.8
Potable Water	m3	0.0	11.2	274.7
Drill Water	m3	0.0	0.0	1,871.2
Fuel	m3	0.0	46.4	6094.1
Lube, Oil	Ltrs	0.0	1,000.0	90,500.0
Heli Fuel	Ltrs	0.0	0.0	0.0
Cement "GWC"	ton	0.0	0.0	82.0
Cement "G"	ton	0.0	0.0	161.0

Marine Information @24:00

Heave (m)	0.4
Pitch (deg)	0.3
Roll (deg)	0.1
Vessel Heading (deg)	330
Riser Tension (kN)	7860
V.D. Load (Moon)	15399.0
Max Draught (m)	9.0
Thruster (kW)	970

Boat Information @24:00

Boat Name	Status	Time @Chikyu Departed	Time @Chikyu Arrived
Kaiyu	Current survery @ 5miles SW	-	-
Shinchou-maru	Shingu	-	-
Hakuryu-maru	Katsuura	08:40	-

Mud Volume (m3)

KNPP mud (1.12)	705
KNPP mud (1.08)	124
Prehy Gel (1.05)	10

Weather Information

Time	Weather	Temp. (degC) Air	Temp. (degC) SW	Barometer (hPa)	Wind Speed (m/s)	Wind Dir. (deg)	Wind Gust (m/s)	Wave Height (m)	Wave Dir. (deg)	Wave Period (s)	Current Speed(knt)	Current Dir. (deg)	Visibility (km)
24:00	c	21.0	23.7	1023.0	3.5	32.0	4.3	1.0	20	6.9	0.8	105	18.0

Today's Schedule : Continue RIH to tag cement plug, drill out cement and start side tracking.

Reported by : S.Kataoka / S. Yamada

Approved by : Y.Uemura