Chikyu DAILY MORNING REPORT

Mission No. : CK13-04 **Exp. No. :** Exp 348 **Report No. :** 63

Site Name : C0002 **Hole Name :** C0002N **Lat.** 33° 18.0507'N **Long.** 136° 38.2029'E **Report Date :** 15/Nov/2013

Depth : @24:00 **4297.5** mBRT **2330.0** mbsf Progress : **37.50** m Seabed Depth : **1,967.50** mBRT RT-MSL : **28.5** m

Depth : @06:00 **4297.5** mBRT **2330.0** mbsf Drilling/Coring/Jetting Hrs. : **1.25** hrs LAST CASING : **20"** x **860.30** mbsf(2,827.8 mBRT)

Summary of Operation on **14-Nov** : Wash down & reaming, circulation & bottoms up, short trip (8stds), pump hi-vis and circulate bottoms up two times, POOH to surface.

Present Operation @ 06:00 on **15-Nov** : POOH 17" drilling assembly to surface.

mBRT: meter below rotary table

mbsf: meter below sea floor

Time Breakdown (00:00 - 24:00 on **14-Nov**

From	To	Hrs	Code	Detail of Operation
0:00	3:00	3:00	W&R	Continue to wash and ream down.
				Take weight over 250kN and Wash down or Wash and ream down. Reciprocate until normal drag indication.
				(4216, 4220, 4222, 4224-4225, 4229, 4245, 4250, 4255, 4260-4262, 4267-4268)
				Ream down from 4268m to bottom. 150 spm x 22.6Mpa, 100rpm x 8-30kNm.
				(Pack off observed @4281m, 4286mBRT. Increase pump rate to 200spm x 34.5-35Mpa. 100rpm.)
				@2:30 back to bottom and circulation @ bottom.
				Work pipe several times.
3:00	8:00	5:00	C&C	Pump 15m3 Hi-vies x 3times, Circ bottom up, 34.5Mpa@200spm, 4.0Mpa@80spm on boost.
				Observe pebble size of M/stone appear w/hi-vis mud.
8:00	10:15	2:15	Trip	Short trip with 8stds from 4297.5mBRT to 3994.8mBRT (2330mbsf - 2027.3mbsf)
				Over pull 400kN @4257mBRT (2289.5mbsf) ,Connect HPS and pull w/pumping 60-150spm x 7-22Mpa w/o over pull.
				Take weight 260kN @4275mBRT (2307.5mbsf) and wash down with 150spm x 21.4MPa w/o over pull.
10:15	10:30	0:15	Trip	Stop pumping and run back to bottom.
10:30	10:45	0:15	W&R	Take weight 230kN @4279mBRT (2311.5mbsf)
				wash down to bottom with 180spm x 29.0MPa
10:45	14:00	3:15	C&C	Sweep 15m3 Hi-vis mud x 2 times (every 2000cts) and bottoms up @4295mBRT (2327.5mbsf)
14:00	17:45	3:45	C&C	Sweep 15m3 Hi-vis mud x 2 times (every 2000cts) and bottoms up @4295mBRT (2327.5mbsf)
17:45	18:00	0:15	C&C	Spot 50m3 of Hivis at bottom
18:00	22:30	4:30	Trip	POOH 17" BHA on 5-1/2" drill pipe from 4295mBRT to 3334mBRT.
				POOH from 4295mBRT to 4257mBRT. Observed 500kN OP at 4257mBRT. Work pipe to pass through without success.
				Connect top drive and pump 250gpm to pass 4257mBRT and contineu to POOH to 4253mBRTwith pumping (Drag 4257-4253mBRT: 150kN) Total pump volume: 7m3 at 4257 -4253mBRT.
				Obsered reducing drag at 4253mBRT and continue to POOH to 4231m without pump (No drag)
				Run back to 4295mBRT without any drag and confirm 2m fill at bottom (1m fill was obseved just after spot 50m3)
				Pull from 4295to 3334mBRT without drag.
				Hole condition: Cuttings are immediately falling from caved section at bottom. But once removed from top of BHA, no drag is observed.
22:30	24:00	1:30	Trip	Changed out elevator insert, continue POOH 17" BHA on 5-1/2" drill pipe from 3334mBRT to 2858mBRT.
				Boat: Kaiyu: Offload Halliburton RSS, 3 full skips and empty container. Depart @4:00 for Shingu base.
				Shincho-maru: Load cutting skips and mud material.
				Notes:
				Install dart to cement head.
				Install cement plug to plug container of deep sea express.
				Sea current @ Chikyu: 0.7knot, 5miles SW: 0.9knot.

Time Breakdown (00:00 - 06:00 on **15-Nov**) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Detail of Operation
0:00	0:30	0:30	C&C	Connect HPS. Spot 10m3 of LCM @2858mBRT (30m below 20" casing shoe).
0:30	1:00	0:30	Trip	POOH to 2803.5mBRT (inside 20" casing). Flow check 15". No loss and no gain.
1:00	1:45	0:45	Other	Function test BOP. Yellow by driller's house monitor. Blue by TP house monitor. All function good. (Upper annular indicate undefined while closing by yellow pod): OK
1:45	6:00	4:15	Trip	Resume POOH from 2858m to 1295mBRT on going.
				Meanwhile :
				Make stand of Casing hanger +PADPRT w/SST stand. Rack back in derrick.
				Make stand of Smith Cement head installed two darts and three 6-5/8" landing string jts. Secure on aux hole.
				Boat:
				Shincho-maru : offload 5 ea of full cutting skips.
				Sea current: Chikyu 1.0knot @6:00.

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
2	17"	Smith(S519)	PDC	S223	SD0749	12 x 10	3976.0	4,297.50	321.5	8.25	20	110	164	180	190.0								

BHA Record

17"DRLG	2	17"Bit x 6m Pony DC x 16-7/8" IL Stab x 8"DGR x 8"EWR X 8"PWD x 8"HCIM x HOC(new) x MWD Down screen x Float Sub (w/float) x XO x 16-5/8"stab x XO 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 62 stds x 5-1/2"DP S-140 19stds x XO x 5-1/2"DP S-150

Hook Wt. (kN) @ 2,859.0 mBRT

Hook load	2,093
BHA	390
below HWDP	320
below Jar	310
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	03:00	4,297	1.13	140	46	60	11	14	3.1	0.5	10.6	0.1	78,100	0.2	0	7.5	0.75	13	11	26,900	0.52	4.14	1.8
KNPP	17:00	4,297	1.13	128	40	50	9	12	3.1	0.5	10.2	0.1	78,100	0.2	0	7.5	1	14	11	26,900	0.50	2.37	1.8
KNPP	07:30	Hi-vis	1.12	263	63	102	16	26	-	-	9.9	-	-	-	-	-	-	23		-	0.47	9.00	

Cutting skip @24:00

Empty	Full	Total
22	5	27

ROV

Status	on deck
Last Dive	2013/11/14
Injection Skid	135 /135 gal

Mud Pumps : 14-P-220 @ 4297.5 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"	0	0	0.0	0	0
2	6"					
3	6"					

Personnel @24:00

CDEX	9
MQJ Crew	99
MQJ (SC,Other)	3
MQJ (Sub sea & Hyd)	1
MWJ	15
Scientist	3
Telnite	2
Oceaneering	6
Schlumberger-CMT	3
SLB WL	1
Geoservice	6
Vetco	1
Halliburton-LWD	3
Halliburton-DD	0
Weatherford (casing)	4
MI-Swaco	4
Tenaris	1
UPS	1
Total	162

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

Item	Received	Used	Stock
Barite (Bulk)			230,300
Kunigel-VO (Bulk)			12,000
NaCl			37,000
KCl	6,000		4,000
Tel-Polymer DX / L / H	0/720/720	0/0/100	4200/1800/960
XCD-Polymer		75	400
Soda Ash			1,250
KOH			1,475
Clean Lube	4,800		9,600
Tel Clean			0
Bi-Carbonate			2,100
Lime			1,240
Defoamer 30C			192
Telnite GXL			54
Tel DD			3,200
NaOH			800
Lignate NC			2,000
Tel Stop G / P			500 / 1000
Tel Mica C / M / F	0/500/500	0/0/50	500/500/850
Tel Plug C / M / F	0/500/0	0/0/140	500/500/560
Tan Cal M / F / FF		120/90/0	6630/7020
EZ Spot			550
Speeder P / X			1700 / 1700
Baracor-100 (gal)			0
Astex S			9,600
Treat HS			0
Rester			0
Telnite OS-5			0
Telnite HEC			0

Heli Information

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

Geologic Information

From	To	Lithology of cuttings

Shale Shaker Centrifuge: hrs

No.1	#10, #175 x 2	No.4	#10, #180 x 2	No.1	4.0
No.2	#10, #175 x 2	No.5	#10, #180 x 2	No.2	4.0
No.3	#10, #180 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	146.6	88.8	329.4
Potable Water	m3	0.0	4.0	249.2
Drill Water	m3	0.0	9.8	1,741.6
Fuel	m3	0.0	55.3	5,470.4
Lube, Oil	Ltrs	0.0	1,500.0	80,500.0
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

Safety (HSE) and other information

Incident	Last Incident 13/Feb/2013	No. LTA
LTA		
HUNS cards	20	
Remarks		

Boat Information @24:00

Boat Name	Status	Time @Chikyu Departed	Time @Chikyu Arrived
Kaiyu	Chikyu	04:00	-
Shinchou-maru	Chikyu	-	-
Hakuryu-maru	Current survey @ 5miles SW	-	-

Mud Volume (m3)

KNPP mud (1.13)	239
KNPP mud (1.12)	60
KNPP mud (1.08)	22
LCM 10% (1.12)	12
Hi-vis	11

Marine Information @24:00

Heave (m)	0.3
Pitch (deg)	0.2
Roll (deg)	0.2
Vessel Heading (deg)	125
Riser Tension (kN)	8000
V.D. Load (Moon)	14193.0
Max Draught (m)	9.0
Thruster (kW)	1100

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	o	17.0	22.3	1024.1	10.8	135.0	122.0	0.9	120	8.3	1.2	270	22.0

Today's Schedule : POOH. Retrieve Nominal Sheet Protector. Prepara for 13-3/8"casing run.

Reported by : S.Yamada / T. Yokoyama / D. Ikenomoto

Approved by : T. Saruhashi