Chikyu DAILY MORNING REPORT

Mission No. : CK13-04 **Exp. No. :** Exp 348 **Report No. :** 62

Site Name : C0002 **Hole Name :** C0002N **Lat.** 33° 18.0507'N **Long.** 136° 38.2029'E **Report Date :** 14/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 **13-Nov** : Drill to section TD, circulate hole clean, wiper trip to 20 shoe, run back to bottom.

Present Operation @ 06:00 on **14-Nov** : Circulation and bottoms up.

mBRT: meter below rotary table

mbsf: meter below sea floor

Time Breakdown (00:00 - 24:00 on **13-Nov**

From	To	Hrs	Code	Detail of Operation
0:00	1:15	1:15	DRL	Continue drill 17"LWD hole 4260.7 to 4297.5mBRT (2170.5-2330mbsf).
				Set auto drill ROP 50m/hr. Booster 80spm x 3.6MPaMPa.
				WOB: 20-110kN, 190spm x 32.8MPa, 180rpm x 18-30kN-m. ROP: ave 41.5m/hr.
				Mud Gas Max: 2.33%, C1: 1.85%, C2: 0.016% @4254.5mBRT, base: 1.0-1.2%. No static loss.
1:15	6:00	4:45	C&C	Circulation and bottoms up.
				Sweep hi-vis mud 15m3 x 3 times (every 2000cts) @4297.5mBRT and bottoms up. 190spm x 32.0MPa, booster 80spm x 3.5MPa.
				SPP is degreased to 31.0MPa gradually.
				Note: No dynamic loss is confirmed after sweep out hi-vis mud at 5:45-6:00, (w/190spm x 31Mpa + 80 spm booster.)
6:00	6:30	0:30	C&C	Spot 50m3 of Hivis mud. Displace 190spm x 31.2Mpa. 0-2kNm/60rpm.
6:30	11:30	5:00	Trip	POOH 5-1/2" DP S-150 with pumping 11.3Mpa@100spm, f/4297.5m t/3991m.
				Observe over pull over 300kN, Connect HPS and work pipe w/100spm x 8.6Mpa pumping.
				Reciprocate until normal drag indication and pull w/o pumping.
11:30	12:30	1:00	Trip	Continue POOH 17" hole BHA on 5-1/2" DP S-150 f/3991.0mBRT t/3775.0mBRT.
				Observe over pull as high as 300kN, Work pipe up & down to eliminate excess drag.
12:30	14:15	1:45	Trip	Continue POOH 17" hole BHA on 5-1/2" DP S-150 f/3775.0mBRT t/3345.0mBRT.
				No drag was observed.
14:15	15:45	1:30	Trip	Changed out elevator insert and continue POOH 17" hole BHA on 5-1/2" S-140DP f/ 3345.0mBRT to 2890.0mBRT.
15:45	16:30	0:45	Trip	Make up XO, engage to HPS, break circulation and spot 10m3 of LCM at 20" casing shoe.
16:30	17:00	0:30	Trip	Continue POOH 17" hole BHA on 5-1/2" DP S-150 f/2890.0mBRT t/2767.0mBRT.
17:00	18:30	1:30	Trip	Service HPS and repair IBOP.
				Monitor well on trip tank. No losses was observed.
18:30	20:30	2:00	Trip	Run back 17" hole BHA on 5-1/2" S-140 DP f/ 2767.0mBRT t/ 3307.2mBRT.
				No drag was observed.
20:30	23:30	3:00	Trip	Change out elevator insert, continue running 17" hole BHA on 5-1/2" S-150 DP f/ 3307.2mBRT t/4219.0mBRT.
				No drag was observed.
23:30	24:00	0:30	W&R	Encountered drag at 4216.9mBRT, work pipe, engage to HPS, work pipe with 150SPM x 21.5MPa.
				Notes: (12:45-16:40) Dive ROV and inject glycol 6gal into LMRP and Wellhead connector. Hydrates formed at bottom of LMRP and BOP.
				Sea current @ Chikyu: 1.2-1.8knot, 5miles SW: 0.1-1.0knot.

Over pull weight while POOH

S-150 #	mBRT	Over pull (kN)
24	4253, 4245	300,200
23	4209-08	450,pumping
22	4186, 4149	300, pumping
21	4142, 4134	300, pumping
20	4124, 4121, 4103	300, pumping
19	4046-4048	300, pumping
19	4047-4028	300, pumping
18	4020-4016	300, pumping
13	3834, 3808	200, 250 work pipe
12	3790-3786	100-350, work pipe
12	3783-3780	100-180, work pipe

Time Breakdown (00:00 - 06:00 on **14-Nov**) * The data on 00:00 - 06:00 is unofficial.

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	6:00	3:00	C&C	Pump 15m3 Hi-vies x 3times, Circ bottom up, 34.5Mpa@200spm, 4.0Mpa@80spm on boost.
				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.
				Sea current: Chikyu 0.9knot, 5miles SW 0.8knot @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) @ 4,289.4 mBRT

Hook load	2,800
	390
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	01:30	4,298	1.13	107	39	46	8	10	3.2	0.5	11.1	0.1	81,700	0.2	0	7.5	1	14	11	28,100	0.54	2.85	1.5
KNPP	19:30	Pit	1.13	107	39	44	8	11	3.2	0.5	10.7	0.1	78,100	0.2	0	7.5	1	15		27,500	0.54	1.61	1.7
KNPP	10:00	Hi-vis	1.12	280	75	99	22	29	-	-	-	-	-	-	0	-	-	24		-	0.52	6.93	

Cutting skip @24:00

Empty	Full	Total
26	2	28

ROV

Status	on deck
Last Dive	2013.11.12
Injection Skid	122 /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"	190	950	32.0	25	22
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)	0	0	230,300
Kunigel-VO (Bulk)	0	0	12,000
NaCl	9,000	9,000	37,000
KCl	6,000	7,000	4,000
Tel-Polymer DX / L / H	3360/1440/0	2140/1300/400	4200/1080/340
XCD-Polymer		450	475
Soda Ash	800	525	1,250
KOH	500	375	1,475
Clean Lube	5,600	4,000	4,800
Tel Clean	0		0
Bi-Carbonate	0		2,100
Lime	0		1,240
Defoamer 30C	0	32	192
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	0/500/600	500/0/400
Tel Plug C / M / F	0 / 0/ 0	0/500/300	500/0/700
Tan Cal M / F / FF	5760/5760/0	930/570/0	6750/7110/0
EZ Spot	0	0	550
Speeder P / X	0 / 0	0	1700 / 1700
Baracor-100 (gal)	0	0	0
Astex S	9,600	0	9,600
Treat HS	0	0	0
Rester	0	0	0
Telnite OS-5	0	0	0
Telnite HEC	0	0	0

Geologic Information

From	To	Lithology of cuttings
4208.0	4208.0	Cly: 70-85, Silt: 10-20, Sand: 5-25 5-10

Shale Shaker Centrifuge: hrs

No.1	#20, #200 x 2	No.4	#20, #200 x 2	No.1	5.5
No.2	#20, #200 x 2	No.5	#20, #200 x 2	No.2	5.5
No.3	#20, #200 x 2	No.6	#20, #200 x 2	No.3	off

Materials Stock on Board @24:00

Item	Unit	Received	Used	Stock
Fresh Water	m3	143.9	109.8	271.6
Potable Water	m3	0.0	5.7	253.2
Drill Water	m3	0.0	7.2	1,751.4
Fuel	m3	0.0	51.9	5,525.7
Lube, Oil	Ltrs	0.0	0.0	82,000.0
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

Boat Information @24:00

Boat Name	Status	Time @Chikyu Departed	Time @Chikyu Arrived
Kaiyu	Chikyu	-	-
Shinchou-maru	Chikyu	-	20:10
Hakuryu-maru	Current survey @ 5miles SW	-	-

Mud Volume (m3)

KNPP mud (1.13)	160
KNPP mud (1.12)	60
KNPP mud (1.08)	52
LCM 10% (1.12)	7.5
Hi-vis	104

Heli Information

Flt. No.	Time Arrived	Time Departed	Passenger Are.	Passenger Dept.
1	09:11	09:22	9	9
2	11:21	11:29	9	9
3	13:31	09:21	8	8
4				

Safety (HSE) and other information

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

Marine Information @24:00

Heave (m)	0.3
Pitch (deg)	0.2
Roll (deg)	0.2
Vessel Heading (deg)	50
Riser Tension (kN)	8300
V.D. Load (Moon)	14255.0
Max Draught (m)	9.0
Thruster (kW)	1660

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	bc	13.5	22.2	1023.3	8.6	20.0	10.4	1.3	10	5.8	1.8	286	22.0

Well Cost (1,000 Yen)

Daily	53,808
Cumulative	2,915,304

Today's Schedule : Wiper trip 5stds. Circ and spot Hi-viv mud. POOH.

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

Approved by : T. Saruhashi