Chikyu DAILY MORNING REPORT

Mission No. : CK13-04 **Exp. No. :** Exp 348 **Report No. :** 68

Site Name : C0002 **Hole Name :** C0002N **Lat.** 33° 18.0507'N **Long.** 136° 38.2029'E **Report Date :** 20/Nov/2013

Depth : @24:00 **4297.5** mBRT **2330.0** mbsf Progress : 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. : hrs LAST CASING : **20"** x **860.30** mbsf(2,827.8 mBRT)

Summary of Operation on **19-Nov** : Wash down 13-3/8" casing. Spot LCM.

Present Operation @ 06:00 on **20-Nov** : POOH 13-3/8"Casing on 6-5/8" landing string.

mBRT: meter below rotary table

mbsf: meter below sea floor

Time Breakdown (00:00 - 24:00 on **19-Nov**

From	To	Hrs	Code	Detail of Operation
0:00	4:00	4:00	CSG(N)	Pull back #24 to #21 stand from 3961m to 3808mBRT w/over pull 1000kN - 600kN drag w/o pumping.
				Observe Casing string pack off while working string w/10spm pumping. (No mud return)
4:00	4:45	0:45	CSG(N)	Pull out # 20 stand (3808-3770mBRT) w/pumping 10-20-30spm. Observe pack off annuls of casing by pressure increasing and return flow rate.
				#20 stand rack back in derrick.
4:45	5:30	0:45	CSG(N)	Pull out # 19 stand (3770-3742mBRT) w/pumping 20-30-40-50spm (3.3-3.8-4.1Mpa). Observe annuls return. Increase pump rate gradually to 30-50-60 of casing by pressure increasing and return flow rate.
5:30	7:45	2:15	C&C	Circulation for annuls cleaning @3767mBRT w/50-100SPM x 3.4-6.2MPa
				Observe minor loss at 1-2m3/hr.
7:45	11:00	3:15	CSG	Wash down 13-3/8" Casing w/150spm x 9.3-10.2Mpa from 3767m to 3922mBRT.
				WO shoe. Max 700kN, Wash down and reciprocate string toward casing set depth.
				Observe losses at 2m3/hr.
11:00	12:30	1:30	CSG	Continue runng casing f/ 3922 t/ 3998m.
				Tight spot at 3922m. Worked pipe, no success. Increased flow rate to 850gpm x 12.0MPa. Loss rate: 8m3/hr.
				Continued work pipe with 1000kN down, broke through tight spot. Loss rate: 15m3/hr.
				Reduced flow rate to 750gpm, run to 3943m, loss rate: 40m3/hr.
				Worked string and reduced 600gpm x 3.7MPa, run to 3950m, minor tight spot, worked string and break through. Loss rate: 40m3/hr.
12:30	13:00	0:30	CSG	Continue running 13-3/8" casing f/ 3950m t/ 3998m, 500gpm x 6.2MPa. Experienced 760kN drag and pressure build to 6.8MPa. Loss rate: 45m3/hr.
13:00	16:30	3:30	CSG	Worked string while mixing mud. 250gpm x 3.7MPa, loss rate: 15m3/hr.
				Flow check for 10min, well static.
				Resume pump at 100gpm x 2.0MPa, loss: 1.7m3/hr. Increased to 125gpm x 2.3MPa, loss: 2.1MPa.
				Pumped 6m3 of 3% LCM.
16:30	18:30	2:00	CSG	Increased flow rate to 500gpm x 6.0MPa, work string down tight spot f/ 3998m t/ 4009m.
				Work down pipe with drag max of 1000kN, increased flow to 750gpm x 10.2MPa, pressure picked up as slacking weight. Loss: 48-50m3/hr.
18:30	21:15	2:45	CSG	Reduced flow to 125gpm x 3.1MPa, Loss:2.1m3/hr. Shut off pump for flow check, well static, start pumping at 100gpm, no losses.
				Pump 10m3 of 10% LCM, increased flow rate to 200gpm, no losses.
21:15	22:30	1:15	CSG	Worked down tight spot at 4008m with 1000kN slack down, no-success. Flow: 200gpm x 3.5MPa, loss: 3-15m3/hr.
22:30	24:00	1:30	CSG	Flow check, well static, condition mud at 200gpm x 20.4MPa. Loss: 1.0m3/hr.
				Note:
				ROV : Bulls eyes checks, Injected 6gal of glycol to LMRP and BOP. Hydrate formed 40%.
				DCU(Data control unit) on cement unit mal function, unable to record density, flow rate and LAS(Liquid adding system) data.
				Sea current @ Chikyu: 0.1-1.0 knot. 5mile SW: 0.5-2.0 knot.

Wash down w/13-3/8" casing

6-5/8"UD 165 No.	depth	take weight
#19	3769.5-37776	400-700kN
#19	3796-3801	400-700kN
#20	3807-3811	400-600kN
#22	3881-3883	200-650kN
#22	3883-3884	200-650kN
#23	3915-3922	350-450kN
#24	3922-3924	500-900kN
#24	3949-3950	500-900kN
#25	3945	700kN
#25	3988	700kN
#25	3998	800-1000kN
#26	3999-4007	950-1150kN

Time Breakdown (00:00 - 06:00 on **20-Nov**) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Detail of Operation
0:00	2:00	2:00	C&C	Continue to circlation with 60spm x 4.0-4.3Mpa to pump LCM out of shoe.
2:00	6:00	4:00	CSG(N)	POOH 13-3/8"Casing from 4009m to 3502mBRT.
				Connect HPS every stand and pump 50spm x 2.5-3.5MPa while pulling 6-5/8" UD 165 stand.
				Note:
				Sea current: Chikyu 0.3 knot, 5 mile SW 2.5 knot @6:00.

over pull POOH 13-3/8" casing

6-5/8"UD 165 No.	depth	take weight
#25	3993	700kN
#25	3981-3980	600kN
#24	3926	480kN
#23	3922	450kN

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

BHA Record

Hook Wt. (kN) @ 3,996.0 mBRT

6-5/8"UD165 Stand #25	4,460
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	10:00	Pit	1.13	121	42	51	10	12	3.0	0.5	10.1	0.1	78,100	0.1	0	7.5	1	12	10	26,900	0.54	3.26	1.8
KNPP	17:00	Pit	1.13	116	42	48	8	11	3.0	0.5	10.2	0.1	78,100	0.1	0	7.5	1	15	14	26,300	0.57	1.52	1.8

Mud Pumps : 14-P-220 @ 1730.0 mBRT 5.00 gallon/stroke @97%

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"	60	300	4.0	CSG
2	6"				23
3	6"				

Personnel @24:00

CDEX	10
MQJ Crew	99
MQJ (SC,Other)	3
MQJ (Sub sea & Hyd)	2
MWJ	15
Scientist	4
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	0
Total	163

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

Item	Received	Used	Stock
Barite (Bulk)		0	208,800
Kunigel-VO (Bulk)			12,000
NaCl		13,000	37,000
KCl		5,000	10,000
Tel-Polymer DX / L / H		1320/960/280	5000/2880/840
XCD-Polymer		300	100
Soda Ash		300	950
KOH		275	1,200
Clean Lube		3,200	6,400
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			500/500/850
Tel Plug C / M / F			500/500/560
Tan Cal M / F / FF			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

Cutting skip @24:00

Empty	Full	Total
39	3	42

ROV

Status	In water
Last Dive	2013/11/18
Injection Skid	60 /135 gal

Geologic Information

From	To	Lithology of cuttings

Shale Shaker Centrifuge: hrs

No.1	#10, #180 x 2	No.4	#10, #180 x 2	No.1	off
No.2	#10, #175 x 2	No.5	#10, #180 x 2	No.2	off
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	98.6	100.2	341.1
Potable Water	m3	0.0	5.5	330.9
Drill Water	m3	0.0	6.1	1,660.9
Fuel	m3	0.0	48.5	5,233.9
Lube, Oil	Ltrs	0.0	900.0	76,600.0
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

Mud Volume (m3)

KNPP mud (1.13)	154
KNPP mud (1.12)	22
KNPP mud (1.05)	30
LCM 10% (1.12)	2
Hi-vis (1.12)	11
KNPP (1.28)	12
total	231

Heli Information

Flt. No.	Time Arrived	Time Departed	Passenger Are.	Passenger Dept.
1	9:13	9:20	5	1
2				
3				
4				

Safety (HSE) and other information

Incident	Last Incident 13/Feb/2013	No. LTA
LTA		
HUNS cards	32	

Remarks

Bi-weekly safety meeting.

Boat Information @24:00

Boat Name	Status	Time @Chikyu Departed	Time @Chikyu Arrived
Kaiyu	Chikyu	-	-
Shinchou-maru	Chikyu	20:25	-
Hakuryu-maru	Current survey @ 5miles SW	-	-

Marine Information @24:00

Heave (m)	0.3
Pitch (deg)	0.2
Roll (deg)	0.2
Vessel Heading (deg)	245
Riser Tension (kN)	8700
V.D. Load (Moon)	14094.8
Max Draught (m)	9.0
Thruster (kW)	1430

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	13.0	22.1	1015.0	11.6	300.0	13.7	1.6	240	6.9	0.4	335	22.0

Well Cost (1,000 Yen)

Daily	
Cumulative	

Today's Schedule : POOH 13-3/8" Casing

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

Approved by : T. Saruhashi