

Chikyū DAILY MORNING REPORT

Mission No. : CK13-04

Exp. No. : Exp 348

Report No. : 129

Site Name : C0002 Hole Name : C0002P Lat. : 33° 18.0507'N Long. : 136° 38.2029'E
 Depth : @24.00 : 4932 mBRT 2964.5 mbsf (14.5') Progress : m Sealed Depth : 1,967.5 mBRT RTMSS : 28.5 m
 Depth : @06.00 : 4932 mBRT 2964.5 mbsf (14.5') Drilling/Coring/Underreaming Hrs : 0.00 hrs LAST CASING : 11-3/4" liner x 2,922.50 mbsf (4,890.0 mBRT)

Summary of Operation on 19-Jan : POOH hanger running tool, RIH diverter, LOT, spot cement plug for squeeze cement.
 Present Operation @ 06:00 on 20-Jan : 2nd squeeze cementing
 Time Breakdown (00:00 - 24:00 on 19-Jan)

From	To	Hrs	Code	Detail of Operation
0:00	5:00	5:00	CSG	Continue to POOH to surface. Lay out BOT liner hanger assembly. Lay out Cement head stand.
5:00	8:45	3:45	Other	Change out saver sub to 5-3/4" FHDSTJ connection.
8:45	17:00	8:15	Other	Make up & RIH diverter assembly to 4761mBRT. No drag was observed when diverter run through at Top of 11-3/4" Liner
17:00	17:15	0:15	Other	Make up cement joint @4761mBRT
17:15	18:45	1:30	Other	Circulate to condition mud. 1000gpm x 29.1MPa. Tag on landing collar with 15kN WOB at 4767.7mBRT(planned top of landing collar 4765.20mBRT).
18:45	19:00	0:15	Other	Make up cement line, flush and test w/ 5000psi for 5min, -ok.
19:00	19:45	0:45	Other	Attempted close upper annular, closing pressure could not fully established (max 6.4MPa). Tag drill pipe connection onto upper annular to space out for closing upper pipe ram. Close upper pipe ram for LOT.
19:45	20:00	0:15	LOT	Conduct leak off test, start injecting at 530psi, pumped 4.0 bbl, stopped injecting and pressure dropped to 390psi. Bleed off pressure to 0psi, flow back 1.1bbl.
20:00	20:30	0:30	LOT	Conduct injection test.
20:30	21:30	1:00	Other	Rig down cement line and pull string to 4495mBRT.
21:30	22:00	0:30	Other	Check space out for squeeze cement.
22:00	22:45	0:45	Other	Run back to 4761mBRT, connect cement joint and set diverter depth at 4764mBRT.
22:45	24:00	1:15	CMT	No.1 squeeze cementing (22:45-23:15) Rig up cement line, flush line and pressure test line 1500psi for 5min, -ok. Pump 6.6m3 (41.5bbl) of spacer at 4bpm, 16-620psi. (23:15-23:40) Clean cement tank. Prepare mix cement slurry. (23:40-23:58) Pump 77.2bbl of 1.89sg slurry; 3-5.4bpm x 60-617psi followed by 10.5bbl of spacer; 4bpm x 63-120psi. (23:58-24:00) Close low torque valve on cement joint, line up rig pump. Note: Isolate conduit line due to leakage pressure. ROV injected 20gal to BOP and 10gal to LMRP. Sea current: Chikyū 1.2-3.1 knot. SW 5 miles 2.2-4.0 knot.

BPM	PSI	Total pumped: 26.6bbl
1.0	770	
2.2	980	
3.0	1080	
4.0	1180	Returned: 1.1bbl

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

From	To	Hrs	Code	Detail of Operation
0:00	2:45	2:45	CMT	Continue No.1 squeeze cementing (00:00-00:07) line up rig pump. (00:07-00:20) Displace w/ mud by Mud pump. 158spm x 14.3-19.7Mpa (2138stk). (00:20-01:30) POOH from 4764m to 4502mBRT. POOH speed 5min/std. (01:30-01:45) P/U and M/U cement joint. Line up cement line. (01:45-02:00) Flush line and pressure test line 4000psi for 5min, OK. (02:00-02:45) No. 1 Squeeze cementing by Cementing pump. Pump rate 3bpm. Total injection volume.120.5bbl. Final pump pressure. 950psi. After stop pumping, 412psi remain. Bleed off pressure and return 0.5bbl (float valve effective).
2:45	3:15	0:30	C&C	Open Annular and Line up to rig pump. Pump w/mud pump 230spm x 34Mpa. 20min.
3:15	5:00	1:45	CMT	RIH w/wash down 180spm x 25-26Mpa from 4502m to 4764mBRT.
5:00	6:00	1:00	CMT	No.2 squeeze cementing (05:00-05:30) Rig up cement line, flush line and pressure test line 1500psi for 5min, -ok. Pump 6.6m3 (41.5bbl) of spacer at 4bpm, 700-300psi. (05:30-06:00) Clean cement tank. Prepare mix cement slurry. Note: Sea current: Chikyū 2.3knot, SW 5miles 2.3knot @6:00.

BBL	PSI
0-10	780-850
10-20	850-900
20-30	880-900
30-40	880-900
40-50	880-900
50-60	880-900
60-70	880-920
70-80	880-950
80-90	880-950
90-100	880-950
100-110	880-950
110-120	880-950

Bit No.	Size (in)	MFR	Type	IADC Code	S.No.	Nozzles	Depth (mBRT)	Meter- age	Hrs.	WOB (kN)	rpm	Total Rev. (kern)	Inner	Outer	Dull	Dull Condition
							From To			Min. Max.	Min. Max.					Loc. B G O.D. RP

BHA Record

11-3/4" casing	(GIS x 1 x F/C x 9 x L/C x 30 x 41, 102 lbs) x liner hanger x 5" DP (5stds) x 5-1/2" DP S-140 (21stds) x XO x 5-1/2" DP S-150 (25stds) x XO x 5-7/8" DP NK-155 (19stds)	Hook Wt. (ken) @ 4764.0 mBRT
Diverter	7" Diverter sub x 5" DP S-140 (9stds) x 5-1/2" DP S-140 (21stds) x XO x 5-1/2" S-150	Diverter BHA 2,330

Mud Properties

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Gel St. (10 ³ , 10 ⁴)	WL	Clake	pH	PI	Cl-	Sand	Oil	Solid	MBC	Temp (In/Out)	K+	n	K	LOS
KNPP	3:00	Pit	1.32	145	56	72	14 ; 25	2.6	0.5	10.8	0.2	117.200	0.2	0	15.0	2.50	14	36.400	0.52	4.89	2.9
KNPP	17:30	Pit	1.32	140	56	72	14 ; 26	2.6	0.5	10.8	0.2	117.200	0.2	0	15.0	2.50	13	36.400	0.52	2.68	2.9

Mud Pumps: 14-P-220 @ 0.0 mBRT 5.00 gallon/stroke @97%

No.	Liner Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"	0	0	0.0	DC DP
2	6"	0	0	0.0	DP
3	6"	0	0	0.0	DP

Personnel @24.00

CDEX	7
MOJ Crew	100
MOJ (SC, Other)	1
MOJ (Sub sea & Hyd)	2
MWJ	17
Scientist	0
Telnte	2
Oceanering	7
Schlumberger-CMT	3
SLB WL	0
Geoservice	4
Velto	1
Weatherford (CSG)	0
MI-Swaco	4
NOV Anderreamer	0
Baker (Liner Hanger)	2
Shinsei kougyo	6
Total	156

Mud Materials on Board @24.00hrs (unit: kg)

Item	Received	Used	Stock
Bariite (Bulk)			79,000
Kunigel-VG (Bulk)		2,100	8,700
NaCl			10,000
KCl			3,000
Tel-Polymer DX / L / H		0/0/20	3380/1520/1260
XCD-Polymer			0
Soda Ash			1,275
KOH			1,225
Clean Lube			0
Tel Clean			0
B-Carbonate			1,000
Lime			1,240
Defoamer 30C		32	160
Telinite GXL			90
Tel DD			2,400
NaOH			2,000
Lignite NC			2,000
Tel Stop G / P			500 / 1000
Tel Mica C / M / F			500 / 1,000 / 1,000
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
Baracoo-100 (gal)			0
Astex S			2,400
Treat HS			1,440
Xarvis			1,000
Telinite OS-5			0
Telinite HEC			0

Shale Shaker

No.	#10, #20 x 2	No.4	#10, #20 x 2	No.1	off
No.1	#10, #20 x 2	No.4	#10, #20 x 2	No.2	off
No.2	#10, #20 x 2	No.6	#10, #200 x 2	No.3	off
No.3	#10, #20 x 2	No.8	#10, #200 x 2	No.3	off

Materials Stock on Board @24.00

Item	Unit	Received	Used	Stock
Fresh Water	m3	0.0	77.9	214.3
Portable Water	m3	0.0	13.8	214.3
Drill Water	m3	142.1	102.0	742.7
Fuel	m3	0.0	55.9	1,969.7
Lube, Oil	Ltrs	0.0	700.0	39,000.0
Heli Fuel	Ltrs	0.0	0.0	0.0
Cement "GWC"	ton	0.0	0.0	0.0
Cement "CS"	ton	0.0	0.0	0.0

Boat Information @24.00

Boat Name	Status	Time @Chikyū
Kaiko	Current survey	Departed - Arrived 18:05
Shinchou-maru	Current survey, SW 5miles	- -
Hakuryu-maru	Current survey, S	- -

Weather Information

Time	Weather	Temp. (degC)	Barometer (hPa)	Wind (m/s)	Dir. (deg)	Gust (m/s)	Height (m)	Dir. (deg)	Period (s)	Current Speed(knt)	Dir. (deg)	Visibility (km)
24:00	bc	8.5	20.3	1025.7	5.5	16.0	6.5	1.3	30	6.0	2.8	100

Today's Schedule: 13-3/8" Plug back cementing.

Heli Information

Flt. No.	Time Arrived	Time Departed	Area	Dept.
1	9:08	9:15	8	5
2				
3				
4				

Safety (HSE) and other information

Incident	Last Incident	No. LTA
	13/Feb/2013	

LTA
HUNLS cards 21
Remarks
10:00 emergency drill for Oil spill prevention and abandon ship

Marine Information @24.00

Heave (m)	Pitch (deg)	Roll (deg)	Vessel Heading (deg)	Riser Tension (kN)	V.D. Load (Moon)	Max Draught (m)	Thruster (kW)
0.2	0.2	0.1	267	9400	9452.2	9.0	2450

Reported by : S. Yamada / D. Ikenomoto / T. Yokoyama
 Approved by : Y. Uamura