

Site Name: C0002 Hole Name: C0002P Lat: 33° 18.0507'N Long: 136° 38.2029'E Report Date: 29/Dec/2013
 Depth: @24.00 4494.0 mBRT 2526.5 mbsf Progress: 268.00 m Seabed Depth: 1,967.50 mBRT RT-MSL: 28.5 m
 Depth: @06.00 4568.0 mBRT 2690.5 mbsf Drilling/Coning/Jetting Hrs.: 23.50 hrs LAST CASING: 13-3/8" x 1,936.50 mbsf(3,904.0 mBRT)

Summary of Operation on 28-Dec Continue drilling 12-1/4" hole from 4226mBRT to 4494mBRT.
 Present Operation @ 06:00 on 29-Dec Drill 12-1/4" LWD hole.

From	To	Hrs	Code	Detail of Operation	Surveys
0:00	0:45	0:45	Drig	Continue drilling 12-1/4" LWD hole 4226-4230.5mBRT(2260.5-2263mbsf: 2.5m) WOB: 4-90KN HPS: 65-1029PM x 10-20kNm. Mud motor revolution 93-114RPM. Pump: 850gpm x 34-38MPa. Boost on riser 4.1Mpa@90pm.	Depth 4190.8 Inc 2.85 Azm 92.40 DLS 0.21 Angle 0.0 Deg 0.0 LFJ 130.0 0.5 LMSP 170.0 0.5 BOP 170.0 0.5
0:45	2:15	1:30	LWD(N)	Lost LWD survey data detection (Mud pulse not coming up to surface). Troubleshooting LWD tool failure. Cycle mud pumps On/Off. Downlinked Variable Data Format(VDF) Mode Switch. Downlinked Sensor Reset. Manual VDF Switch. Hard Reset - pumps off for 5 Mins. None of these measures resulted in a return to normal pulsing. Discuss w/Co-Chief Scientists and decision made to go ahead w/ real time LWD data. (possible recover data by LWD memory or Logging while understanding is another option)	Bulls eye reading @8.07
2:15	22:30	20:15	Drig	Resume drilling 12-1/4" LWD hole 4230.5-4478mBRT (2263-2510.5mbsf: 247.5m). WOB: 60-135KN HPS: 65-1029PM x 10-20kNm. Mud motor 83-114RPM. Pump: 850-950gpm x 34-38 MPa. Boost on riser 4.1Mpa@90pm. Sweep 3 m3 of hi-vis mud after connection and at half stand.	Sensor distance to bit (m) AFR 13.76 PHD-M5 16.02 AGR 16.23 DDS-M5 16.79 EWR-M5 19.03 XBAT 26.34 MWD 31.45
22:30	22:45	0:15	WC	Observed drilling break (increased ROP from 20min to 90min). Stop pumping and monitor well by trip tank, well static.	
22:45	24:00	1:15	Drig	Resume drilling 12-1/4" LWD hole 4478-4494mBRT (2510.5-2626.5mbsf: 16m). WOB: 135KN HPS: 100RPM x 15-20kNm. Mud motor revolution 63-114RPM. Pump: 850gpm x 37.6MPa. Boost on riser 4.1Mpa@90pm. ROP: Ave: 16.0m/hr. Min:4.9m/hr(4235m). Max: 42.6m/hr(@4417.5m) Mud gas: Back ground gas: 0.14-0.88%. Caved cuttings: Ir	Hi mud motor revolution factor: 0.13 rev/gal

- BOP status**
- Yellow pod
 - Lower annular close: SPM leak
 - Lower annular open: malfunction (SV and PS problems)
 - Upper inner choke open: SPM leak
 - Upper outer choke open: SPM leak
 - Lower inner choke close: Indication Pressure SW problem
 - Choke isolation valve close: leak
 - Wellhead connector reg decrease: malfunction
 - Upper annular close: SPM leak
 - Blue pod
 - Mud boost valve open: SPM leak
 - Choke isolation valve: leak
 - Pod stab extend: Indication pressure SW problem

Time Breakdown (00:00 - 06:00 on 29-Dec) * The data on 00:00 - 06:00 is unofficial.

From	To	Hrs	Code	Detail of Operation
0:00	6:00	6:00	Drig	Continue drilling 12-1/4" LWD hole 4494-4568mBRT (2526.5-2600.5mbsf: 74m) WOB: 95-1529KN HPS: 65-1029PM x 14.5-22.4kNm. Mud motor revolution 99-110RPM. Pump: 835-850gpm x 31.6-38.2MPa. Boost on riser 4.1Mpa@90pm. ROP: Ave: 15.1m/hr. Min:5.0m/hr (@4497mBRT). Max: 1.45m/hr (@4505.5mBRT) Caved cuttings: Ir

Note: Supply boat Shinchou-manu: Offload 12 full cutting skips, on going.
Sea current: Chikyū 1.7knot. SW Swirls 3.5knot.

Bit Record

Bit No.	Size (in)	MFR	Type	IADC Code	S/No.	Nozzles	Depth (m)	Meter- age	Hrs.	WOB (kN)	rpm	Total Rev. (rev)	Inner	Outer	Dull	Loc.	B	G	O.D.	RP	
8	12.25"	Smith	MDH16BPX (PDC)	M223	JG7525	14 x 7	4,186.0 - 4,494.0	308.0	20.77	4	154	164	216	384.0							
						(Open hole)	4130.00 - 4,188.00	56.0	3.88	4	102	130	213	58.2							

BHA Record

No.8	12-1/4" LWD	Hook We. (kN) @	4494.2	mBRT
		Hook Load		2,830
		BHA		390
		Below Jtr		300
		Hook + HPS		730
		Hook block		307
		Jar Rotating time	SIN	1762-1363
		Today	16.64	Total 42.57
		Cutting size @24.00		
		Empty		Total
		44		52

Mud Properties

Mud Type	Time	Depth (mBRT)	MW	VIS	PV	YV	Get St. (10', 10')	WL	Clake	pH	PI	Cl-	Sand	Oil	Solid	MBC	Temp (In / Out)	K+	n	K	LGS		
KNPP	3:30	4,241	1.28	111	43	52	9	12	2.6	0.5	11.0	0.2	113,600	0.2	0	12.5	1.25	14		32,400	0.54	3.31	1.4
KNPP	17:00	4,411	1.28	108	43	54	9	12	2.5	0.5	11.0	0.2	117,200	0.2	0	12.5	1.25	15		34,800	0.56	1.36	1.1
		Hi-vis	1.28	112	62	100	16	35												0.47	8.78		

Mud Pumps: 14-P-220 @ 4494.2 mBRT

No.	Line Size	SPM	GPM	Press. (MPa)	Ann. Vel. (m/min)
1	6"			DC	DP
2	6"	170	850	37.8	
3	6"				

Geologic Information

From	To	Lithology of cuttings
4213.0	4233.0	Claystone 90-95, Silstone 5-10.
4233.0	4368.0	Claystone 90-95, Silstone 5-10.
4368.0	4453.0	Claystone 70-90, Silstone 15-30.

Shale Shaker

No.1	#10, #200 x 2	No.4	#10, #180 x 2	No.1	off
No.2	#10, #180 x 2	No.5	#10, #200 x 2	No.2	off
No.3	#10, #200 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	99.2	101.0	(1.8)
Drill Water	m3	0.0	6.4	(6.4)
Fuel	m3	0.0	17.4	(17.4)
Lube, Oil	Lbs	0.0	66.6	(66.6)
Hel Fuel	Lbs	0.0	0.0	0.0
Cement "GW"	ton	0.0	0.0	0.0
Cement "S"	ton	0.0	0.0	0.0

Boat Information @24.00

Boat Name	Status	Time @Chikyū
Kalko	Stand-by	
Shinchou-manu	Current survey @SW Swirls	
Hakuyou-manu	Current survey @S 10miles	18:30

Weather Information

Time	Weather	Temp. (degC)	Barometer	Wind	Wave	Current	Visibility
24.00	bc	5.5	29.2	1014.9	Speed (m/s) : 14.4 ; Dir. (deg) : 330.0 ; Gust (m/s) : 16.5	Height (m) : 1.8 ; Dir. (deg) : 315 ; Period (s) : 6.2	Speed(knt) : 1.7 ; Dir. (deg) : 98 ; (km) : 22.0

Today's Schedule: Short trip. Resume drill 12-1/4" LWD hole.