

Chikyu DAILY MORNING REPORT

Mission No.: CK13-04

Exp. No.: Exp 348

Report No.: 106

Site Name: C0002 Hole Name: C0002P Lat: 33° 18.0507'N Long: 136° 38.2029'E Report Date: 28/Dec/2013

Depth: @24:00 4228.0 mBRT 2260.5 mbsf Progress: 42.00 m Seabed Depth: 1,967.50 mBRT RTMSL: 28.5 m

Summary of Operation on 27-Dec: Cut and slip drilling line. / RIH 12-1/4"LWD BHA / Open hole and drill 12-1/4" LWD hole.

Present Operation @ 06:00 on 28-Dec: Drill 12-1/4"LWD hole.

Time Breakdown (00:00 - 24:00) on 27-Dec

Table with columns: From, To, Hrs, Code, Detail of Operation. Includes operations like 'Continue to cut and slip drilling line 50m @1924mBRT', 'Resume RIH 12-1/4" LWD BHA to 3877mBRT', 'Break circulation, take SCR and CLP at 3877mBRT', 'Open CMC. Bit and stabilizer pass through casing window', 'Resume RIH 12-1/4" LWD BHA to 4117mBRT', 'Connect HPS, wash down from 4117mBRT to 10m above coring interval', 'Drill 12-1/4" hole with LWD BHA from 4186mBRT to 4228mBRT', 'WOB, 4-130kN', 'HPS, 51.99RPM x 10.06-16.53kN-m. Downhole 106-114RPM', 'Pump, 17.5spm x 30-1-34.75Mpa', 'ROP, 1.32min/m @4207m - 25.4 min/m @ 4186m. Ave 5.9 min/m'.

Table with columns: Angle, Deg. Values: LFLJ 0.0, 0; LMRP 130.0, 0.5; BOP 170.0, 0.5.

Table with columns: Sensor distance to bit (m), Values: AFR 13.76, PWD-M5 16.02, AGR 16.23, DDS-M5 16.79, EWR-M5 19.03, XBAT 26.34, MWD 31.45.

Table with columns: Depth, Inc, Azm, DLS. Values: 4153.8, 2.93, 97.28, 0.35; 4190.8, 2.85, 92.40, 0.21.

Note: Dive ROV (07:10-24:00) ROV inject glycol Spal to BOP and Spal to LMRP every 12hrs. Sea current: Chikyu 2.0-3.5 knot. SW 5miles 1.9-3.8 knot.

BOP Status

- Yellow pod: 1. Lower annular close: SPM leak, 2. Lower annular open: malfunction (SV and PS problems), 3. Upper inner choke open: SPM leak, 4. Upper inner choke Close, Indication Pressure SW problem, 5. Lower inner choke Close, Indication Pressure SW problem, 6. Choke isolation valve close: leak, 7. Wellhead connector reg decrease: malfunction, 8. Upper annular close: SPM leak. Blue pod: 1. Mud boost valve open: SPM leak, 2. Choke isolation valve: leak, 3. Pod stab extend: indication pressure SW problem.

Time Breakdown (00:00 - 06:00) on 28-Dec. * The data on 00:00 - 06:00 is unofficial.

Table with columns: From, To, Hrs, Code, Detail of Operation. Includes operations like 'Continue to drill 12-1/4"LWD hole to 4230.5mBRT', 'WOB, 4-20kN', 'HPS, 60-100RPM x 10-16kNm', 'Pump, 17.5spm x 34-36Mpa. Boost on riser 4. 1Mpa/80spm', 'Lost LWD survey data detection (Mud pulse not coming up to surface). Troubleshooting LWD tool failure', 'Cycle mud pumps On/Off. Downlinked VDF Mode Switch. Downlinked Sensor Reset. Manual VDF Switch. Hard Reset - pumps off for 5 Mins.', '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 underreaming is another option.)', 'Resume drill 12-1/4"LWD hole to 4266mBRT', 'WOB, 60-110kN', 'HPS, 99RPM x 10-18kNm', 'Pump, 17.5spm x 34-36Mpa. Boost on riser 4. 1Mpa/80spm'.

Table with columns: Depth, Inc, Azm, DLS. Values: 4190.8, 2.85, 92.40, 0.21.

Note: Supply boat Shinko-maru. Depart 5:30 from Chikyu W 4 full cutting. 8405. Sea current: Chikyu 2.8knot. SW 5miles 2.8knot.

Table with columns: Bit No., Size (in), MFR, Type, MDC Code, S/No., Nozzles, Depth (m), Meter-age, Hrs, WOB (kN), rpm, Total Rev. (Rev), Inner, Outer, Dull, Loc., B, G, O.D., RP.

Table with columns: BHA Record, No. 8, 12-1/4" LWD, Hook Wt. (kN) @ 4,228.0 mBRT.

Table with columns: Mud Properties, Mud Type, Time, Depth (mBRT), MW, VIS, PV, YV, Gel St. (10-10T), WL, Cake, pH, PI, CI-, Sand, Oil, Solid, MBC, Temp, K+, n, K, LGS.

Table with columns: Mud Pumps: 14-P-220 @ 4228.0 mBRT, 5.00 gallon/stroke @97%, Personnel @24:00, Mud Materials on Board @24:00hrs (unit: kg).

Table with columns: Geologic Information, From, To, Lithology of cuttings, 4188.0, 4213.0, Claystone S5-S6, Silstone S-15, Sandstone O-Tr.

Table with columns: 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.

Table with columns: Materials Stock on Board @24:00, Item, Unit, Received, Used, Stock.

Table with columns: Boat Information @24:00, Boat Name, Status, Time @Chikyu, Departed, Arrived.

Table with columns: Weather Information, Time, Weather, Temp. (degC), Barometer, Wind, Gust, Wave, Dir. (deg), Period (s), Current, Dir. (deg), Visibility.

Today's Schedule: Continue to drill 12-1/4"LWD hole.

Table with columns: Helicopter Information, Fil. No., Arrived, Time, Departed, Passenger.

Table with columns: Safety (HSE) and other information, Incident, Last Incident, 13/Feb/2013, No. LTA.

Table with columns: 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).

Table with columns: Personnel @24:00, CDEX, M/J Crew, M/J (SC/Com), M/J (Sub sea & Hyd), MWJ, Scientist, Tehite, Oceanerling, Schlumberger-CMT, SLB WL, Geoservice, Lime, Halliburton-LWD, Halliburton-DO, Weatherford (CSIG), MI-Swaco, NOV Underreamer.

Table with columns: Mud Volume (m3), KNPP mud (1.28), 274; KNPP mud (1.19), 175; KNPP mud (1.16), 143; KNPP mud (1.19), 39; LCM 20% (1.13), 24; Hi-vis (1.28), 45; KNPP (1.54), 3; total, 784.

Reported by: S. Yamada / D. Ikenomoto. Approved by: Y. Uemura.