

Chikyu DAILY MORNING REPORT

Mission No. : CK12-02

Exp. No. : Exp 343

Report No. : 13

Site Name : JFAST3 Hole Name : Lat. Long. Report Date : 14/Apr/2012  
 Depth : @24:00 mBRT mbsf Progress : m Seabed Depth : mBRT RT-MSL : 28.5 m  
 Depth : @06:00 mBRT mbsf Drilling/Coring Hrs. : hrs LAST CASING : x mbsf  
 Summary of Operation : 13-Apr : #4 pay out UWTV cable. Install Guide Hone. Run 20" CSG with Jetting BHA (meanwhile #5 Pay out UWTV cable).  
 Present Operation to 06:00 on 14-Apr : Install upper guide horn  
 Time Breakdown ( 00:00 - 24:00 on 13-Apr )  
 mBRT: meter below rotary table  
 mbsf: meter below sea floor

| From  | To    | Hrs  | Code  | Detail of Operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------|-------|------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0:00  | 2:15  | 2:15 | Other | Continue winding up UWTV cable with drill pipe assist to 7215m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 2:15  | 2:45  | 0:30 | Other | Remove cable gripper and set cable in sheave on the Working Cart.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2:45  | 6:45  | 4:00 | Other | Wind up cable to surface with good cable layer condition<br>Drift vessel at 0.3knots while winding up from 3000m in 1.6knots current.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 6:45  | 7:15  | 0:30 | Other | Remove rotation sensor and analyze memory data.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 7:15  | 10:00 | 2:45 | Other | Install middle and lower guide horn at moon pool.<br>(07:45-10:30) Move vessel to core hole location.<br>(07:15-11:00) Meeting with CDEX office about next operation. Make decision to re-run UWTV cable to confirm cable rotation tendency while handling 20" casing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 10:00 | 12:00 | 2:00 | Other | Prepare for running 20" casing.<br>(11:00-13:30) Install rotation sensor and prepare for running UWTV cable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 12:00 | 12:15 | 0:15 | Other | Hold TBRA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 12:15 | 18:00 | 5:45 | CSG   | Run 20" casing<br>Make up Jetting shoe ft x intermediate ft x Magnum Well Head joint.<br>Pick up Magnum running tool and engage to WH joint. Confirm 110kN casing weight including RT in air. Lay down RT.<br>Pick up jetting BHA and run into 20" casing. Make up RT and engage to WH joint. Confirm 140kN assembly weight including RT in air.<br>Bottom of jetting sub is 7in inside jetting shoe<br>Install 30"OD Guide Funnel to the Well Head Housing. Install 2ea shear pins into RT<br>Energize 2 x anti rotation keys for all RL-4S connector.<br>Meanwhile, #5 pay out UWTV cable.<br>(13:30-14:30) Pay out to 5000m with high mode.<br>(14:30-15:00) Standby for 30min to stabilize the cable torsion.<br>(15:00-16:15) Wind up cable to surface.<br>(16:15-17:30) Remove rotation sensor and analyze memory data. |
| 18:00 | 24:00 | 6:00 | CSG   | Run 20" casing with running string (2415m at 24:00)<br>Fill up @529m, 909m, 1289m, 1662m, 2037m.<br>11:30 Observe #2 APRS Big Head failure due to transceiver phase calibration error. Switch to #1 APRS and confirm normal function. Adopt "advisory status"<br>20:00 Observe transponder BCN 314 failure. Confirm #1 APRS works without problem with three (3) transponders.                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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

| From | To   | Hrs  | Code  | Detail of Operation                                                                                                                                                                                                                                                               |
|------|------|------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0:00 | 5:00 | 5:00 | CSG   | Continue running 20" casing from 2415m to 4074m. (till all 5-1/2"DP S140 are run)                                                                                                                                                                                                 |
| 5:00 | 6:00 | 1:00 | Other | Install upper guide horn ongoing<br>Meanwhile find UWTV fiber cable communication failure at 2:00. Troubleshooting same.<br>Shoot OTDR from UWTV side and find fault on all 4 fiber cables 100m from UWTV.<br>Check OTDR record and find the fiber fault existed before 11th-Apr. |

Bit Record

| Bit No. | Size (in) | MFR    | Type        | IADC Code | S/No. | Nozzles | Depth (mBRT) |    | Meter-age | Hrs. | WOB (kN) |      | rpm | Total Rev. (krev) | Dull Condition |       |      |      |   |   |      |
|---------|-----------|--------|-------------|-----------|-------|---------|--------------|----|-----------|------|----------|------|-----|-------------------|----------------|-------|------|------|---|---|------|
|         |           |        |             |           |       |         | From         | To |           |      | Min.     | Max. |     |                   | Inner          | Outer | Dull | Loc. | B | G | O.D. |
| 8       |           | Magnum | Jetting sub | -         | 1     | 7 x 14  |              |    |           |      |          |      |     |                   |                |       |      |      |   |   |      |

BHA Record

| Jetting                                                                                                                                                | Running                                                                                                             | Hook Wt. (kN) @ |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------|
| 8" Jetting Sub x Spacer Sub x Float Sub x 17-1/2" Stb x XO x 5-1/2" DP S140 2jts x 5-1/2" DP Pup 2jts x XO x Spacer Sub x Magnum Running tool (Lower). | Magnum Running tool (Upper) x XO x 5.68" HWDP Pre. 13jts x XO x 5" DP S140 Pre. 68stds x 5-1/2" DP S140 Pre. 36stds | 2,379 mBRT      |

Mud Properties

| Mud Type     | Time  | Depth (mBRT) | MW   | VIS | PV | YV | Gel St. | WL | Cake | pH   | Pf | Cl- | K+ | LGS | PPG | MBC | n    | K    | Temp |
|--------------|-------|--------------|------|-----|----|----|---------|----|------|------|----|-----|----|-----|-----|-----|------|------|------|
| 12% Pre-hyd. | 24:00 | Pit          | 1.05 | 200 | 64 | 82 | 15      | 62 |      | 9.0  |    |     |    |     |     |     | 0.52 | 5.55 | 18   |
| Kill Mud     | 24:00 | Pit          | 1.30 | 120 | 53 | 34 | 16      | 40 |      | 11.5 |    |     |    |     |     |     | 0.69 | 1.21 | 18   |

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

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

Geologic Information 2012.04.xx

| From | To | Litho logy |
|------|----|------------|
|      |    |            |

Materials Stock on Board @24:00

| Item          | Unit | Received | Used  | Stock     |
|---------------|------|----------|-------|-----------|
| Fresh Water   | m3   | 90.3     | 99.8  | 305.9     |
| Potable Water | m3   | 0.0      | 3.4   | 284.3     |
| Drill Water   | m3   | 0.0      | 0.0   | 1,929.5   |
| Fuel          | m3   | 0.0      | 41.7  | 3,619.6   |
| Lube, Oil     | Ltrs | 0.0      | 600.0 | 112,400.0 |
| Heli Fuel     | Ltrs | 0.0      | 0.0   | 800.0     |

Boat Information @24:00

| Boat Name         | Status | Time     |         |
|-------------------|--------|----------|---------|
|                   |        | Departed | Arrived |
| No.18 Kaikou-Maru | Chikyu |          |         |

Weather Information

| Time  | Weather | Temp. (degC) |      | Barometer (hPa) | Wind        |            |            | Wave       |            |            | Current    |            | Visibility (km) |
|-------|---------|--------------|------|-----------------|-------------|------------|------------|------------|------------|------------|------------|------------|-----------------|
|       |         | Air          | SW   |                 | Speed (m/s) | Dir. (deg) | Gust (m/s) | Height (m) | Dir. (deg) | Period (s) | Speed(knt) | Dir. (deg) |                 |
| 24:00 | o       | 10.0         | 11.8 | 1015.2          | 7.7         | 38.0       | 8.3        | 1.8        | 180        | 7.3        | 0.8        | 334        | 22              |

Today's Schedule : Install Upper guide horn, Change out to dual elevator, Meanwhile repair UWTV cable

Personnel @24:00

|             |     |
|-------------|-----|
| CDEX        | 12  |
| MQJ Crew    | 95  |
| MQJ (Other) | 1   |
| MWJ         | 20  |
| Scientist   | 28  |
| Telnite     | 1   |
| Sch-LWD     | 2   |
| Sch-WL      | 1   |
| Magnum      | 2   |
| Franks      | 0   |
| WWT         | 0   |
| OCC         | 2   |
| NOV         | 1   |
| Sonardyne   | 1   |
| Core-IRM    | 2   |
| Other       | 2   |
| Total       | 170 |

Mud Volume (m3)

|                   |     |
|-------------------|-----|
| Pre-Hyd.          | 314 |
| Kill mud (1.30sg) | 71  |
| Sea Water Gel     | 0   |

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

| Item                    | Received | Used   | Stock   |
|-------------------------|----------|--------|---------|
| Barite (Bulk)           | 0        | 28,500 | 557,500 |
| Bentonite (by S. Lanka) | 0        | 4,000  | 40,000  |
| Kunigel-VO (Bulk)       | 0        | 3,000  | 212,000 |
| NaOH                    | 0        | 50     | 9,900   |
| Lime                    | 0        | 0      | 9,800   |
| XCD-Polymer             | 0        | 75     | 100     |
| Rester                  | 0        | 0      | 3,000   |
| Baracor-100 (gal)       | 0        | 0      | 110     |
| Telnite OS-5            | 0        | 0      | 120     |
| Franks                  | 0        | 0      | 0       |
| WWT                     | 0        | 0      | 0       |
| OCC                     | 0        | 0      | 0       |
| NOV                     | 0        | 0      | 0       |
| Sonardyne               | 0        | 0      | 0       |
| Core-IRM                | 0        | 0      | 0       |
| Other                   | 0        | 0      | 0       |

Marine Information @24:00

|                      |         |
|----------------------|---------|
| Heave (m)            | 0.6     |
| Pitch (deg)          | 0.4     |
| Roll (deg)           | 0.2     |
| Vessel Heading (deg) | 70      |
| Riser Tension (ton)  | -       |
| V.D. Load (Moon)     | 11851.0 |
| Max Draught (m)      | 9.0     |
| Thruster (kW)        | 1,010   |

Helicopter Information

| Fit. No. | Time    |          | Passenger |       |
|----------|---------|----------|-----------|-------|
|          | Arrived | Departed | Are.      | Dept. |
| 1        | 9:38    | 9:51     | 10        | 14    |
| 2        |         |          |           |       |
| 3        |         |          |           |       |
| 4        |         |          |           |       |
| 5        |         |          |           |       |

Safety (HSE) and other information

| Incident           | Last Incident | No. LTA |
|--------------------|---------------|---------|
| LTA                |               |         |
| HUNS cards         | 10            |         |
| Remarks            |               |         |
| DP advisory status |               |         |