Supplemental data memo in C0002T

4th March, 2019
Exp358 LSSs

This is a supplemental and quick memo to help using the logging data. It includes personal communication between Schulumberger data processor. Refer to the IODP expedition 358 proceedings for the official information.

Depth index
mBRT: meter below rotary table (rig floor)
mbsf: meter below sea floor
MSL: mean sea level
MD: Measured depth, linear length from the rig floor
TVDSS: True Vertical Depth SubSea, vertical depth from MSL

Well summary
Expedition: 358
Hole: C0002T (sidetrack from C0002S)
Location (Well head): 33°18.0507’N, 136°38.2029’E
X/Y: 652382.39 / 3685834.62
Water Depth: 1967.5 mBRT (1939.0 mMSL)
Rig floor to MSL Elevation: 28.5 m
Coordinate: WGS84-N53
Grid North: 0.89 (degree)
Magnetic Declination: -7.16 (degree)
Magnetic Inclination: 47.02 (degree)
Total magnetic force: 46164.86 (nT)
Horizontal component: 31432.0 nT
Vertical component: 33632.0 nT

Hole C0002T was kicked off at 4784mBRT from the open hole C0002S in Run1. Cores were cut below in 4804-4816mBRT.
Run 1
BHA: 8-1/2"Bit + Mud Motor + TeleScope
Mud type: KNPP
Mud weight (sg): 1.36

Logging data quality control
Time-base DWOB was measured at TeleScope. There is no DTOR.

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Appendix 1: Acronyms in drilling parameters and LWD data

**drilling parameters at surface**
- **ROP5 [m/hr]**: Rate of penetration averaged over the last 5 ft (1.5 m)
- **RPM [c/min]**: Rotations per minute
- **SPPA [MPa]**: Standpipe pressure
- **SWOB [kN]**: Surface Weight on Bit
- **STOR [kN.m]**: Surface Torque
- **TFLO [gal/min]**: Total flow rate of all active pumps

**TeleScope**
- **DWOB [kN]**: Downhole Weight on Bit
- **DTOR [kN.m]**: Downhole Torque

Appendix 2: Time stamp of time-base data

Use “Time” as a reference for time-based LAS. Time Index by Schlumberger Maxwell acquisition system takes OLE Automation Date, that is “December 30, 1899” as a reference day. Techlog takes “January 01, 1900” as a reference day, therefore, there are 2-day gap in-between. Time-based LAS includes two kinds of “Time stamp”, “Time_1900 (OLE Automation Date)” and “Time (2 days ahead index)”. The latter is the actual date.