Elevations Surface Location Longitude: 178° 53' 45.618" E Date Logged: COUNTRY: New Zealand COMPANY: IODP Schlumberger Using the following logs: proVISION, NeoScope Joides Resolution DF: 11 m 20-Dec-2017 Processed Resul proVISION Plus Latitude: 38° 51' 32.202" S Date Processed *Techlog Processed Interpretation * A Mark of Schlumberger 27-Dec-2017 FOLD HERE: The well name, location and borehole reference data were furnished by the customer. Any interpretation, research, analysis, data, results, estimates, or recommendation furnished with the services or otherwise communicated by Schlumberger to the customer at any time in connection with the services are opinions based on inferences from measurements, empirical relationships, and/or assumptions; which, inferences, empirical relationships and/or assumptions are not infallible and with respect to which professionals in the industry may differ. Accordingly, Schlumberger cannot and does not warrant the accuracy, correctness, or completeness of any such interpretation, research, analysis, data, results, estimates, or recommendation. The customer acknowledges that it is accepting the services "as is," that Schlumberger makes no representation or warranty, express or implied, of any kind or description in respect thereto, and that such services are delivered with the explicit understanding and agreement that any action taken based on the services received shall be at its own risk and responsibility, and no claim shall be made against Schlumberger as a consequence thereof. Svc. Order #: Techlog Vers: 2017.2 Analyst Manas Process Date: 27-Dec-2017 Mud and Borehole Measurements: BHT: 5 degC Bit Size: 8.5 in Casing Size: Casing ID: Type Fluid in Hole: Sea Water Casing Weight Mud density: 8.6 lbm/gal

Remarks:

- 1. proVISION Plus processing result
- 2.T2 cutoff used is for clastics which is 33 ms.
- Data might be affected due to borehole conditions.

Acquisition & Calibration

Echo Amplitude MC: 358.819 Frequency MC: 246.64 (kHz) Antenna Q MC: 128.809 Temperature MC: 26 (degC) Loop MC:

Number Echoes: 1500;64;32;0;0 Number Repeats: 1;32;64;0;0 Echo Spacing: 1200;800;600;0;0 (us) 12.7751;0.048;0.016;0 Wait Time:

0(s)

no

Processing Parameters

Number Sub-Meas:

<u>Inversion</u> Preprocessing

T2 Minimum: Stacking Levels: 9 1 (ms) T2 Maximum: Despike: yes 5000 (ms)

Burst Baseline Corr: **Inversion Components:** 30 no Bend Ringing Corr: no Interpolation: 64 Signal Phasing: Manual Sub Measurements: 1;2;3

Start Echo: 2;2;2 Auto EPM Processing: LQC Threshold Parameters T1/T2 Input: 1.5

Polarization Corr Threshold: 0.015 (m3/m3) Polarization Correction: Bad Hole Porosity: 0.4 (m3/m3)Regularization: Manual Bad Hole T2: 10 (ms) Regularization Factor: 0.2

Bound Fluid Permeability and Bin Porosity

Parameters <u>Permeability</u> <u>Timur</u> **SDR** T2 Cutoff: Computed: 33 (ms) yes no Multiplier: 1 4 Porosity Exponent: 4 4 2 Ratio/T2LM Exp: 2 Bound Fluid Min: 0.01 (m3/m3) Bin Porosities (ms) 3 100 300 1 1 10 33 1000 5000



