

HSM-15A\_A

SonicScope

Monopole Low Compressional QC Plot

\* A Mark of Schlumberger

Using the following logs: SonicScope, Neoscope

COMPANY: IODP

WELL: HSM-15A\_A

RIG NAME: Joides Resolution

COUNTRY: New Zealand

Date Logged: 20-Dec-2017 Date Processed: 27-Dec-2017

Surface Location : Longitude: 178° 53' 45.618" E Latitude: 38° 51' 32.202" S

Elevations: DF: 11 m GL: -2637 m

FOLD HERE: The well name, location and borehole reference data were furnished by the customer.

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Svc. Order #:	Techlog Vers: 2017.2	Analyst: Onishant	Process Date: 27-Dec-2017
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Mud and Borehole Measurements:

Casing Size:	BHT : 5 degC	Bit Size: 8.5 in
Casing ID:	Type Fluid in Hole: Sea Water	
Casing Weight	Mud density: 8.6 lbm/gal	

## Remarks:

1. Data might be affected due to borehole condition and mud contamination.
2. Monopole Low waveform is processed in the interval 2640-2705m to get formation compressional arrival.

Processing parameters summary

**Monopole Low Leaky-P**

**Borehole status:** Open hole  
**Energy threshold:** 1 Pa  
**Filter band high:** 3000 Hz  
**Formation type:** Intermediate  
**Dispersion file mode:** None  
**Mud density:** 8.599999 lbm/gal  
**Search band offset:** 1000 us  
**Slowness lower limit:** 40 us/ft  
**Stacked frames:** 3  
**Compute SFA:** Yes  
**Model order:** 2  
**Compressional lower limit:** 56.7 us/ft  
**Shear upper limit:** 540 us/ft  
**Time width:** 2250 us  
**Reference receiver:** 6

**Bit size:** 8.5 in  
**Energy threshold option:** Collar only  
**Filter band low:** 2200 Hz  
**Average hole size:** 8.5 in  
**Receiver/transmitter/DBHC mode:** Receiver mode  
**Mud type:** WBM  
**Search band width:** 3000 us  
**Slowness step:** 2 us/ft  
**Slowness upper limit:** 340 us/ft  
**Max frequency:** 12000 Hz  
**Matching tolerance:** 50  
**Compressional upper limit:** 127.5 us/ft  
**Time step:** 450 us  
**Integration time window:** 1200 us  
**Receiver selection:** R1;R2;R3;R4;R5;R6;R7;R8;R9;R10;R11;R12

**Caliper:** BS in  
**Filter length:** 41  
**Filter type:** Static filter  
**Leaky-P:** Yes  
**Mud slowness:** 200 us/ft  
**Multishot NRSA:** 7  
**Semblance threshold:** 0.35  
**STC stacking:** Yes  
**Slowness width:** 20 us/ft  
**Min frequency:** 0 Hz  
**Time lower limit:** 450 us  
**Shear lower limit:** 80 us/ft  
**Time upper limit:** 5850 us  
**Waveform:** WFA\_MLT





