

# U1520A

## ProVision Plus Processed Results

Using the following logs:      ProVision Plus

COMPANY:	IODP
WELL:	U1520A
FIELD:	HSM-05A
RIG:	Joides Resolution
STATE:	
COUNTRY:	New Zealand
Date Logged:	30-Dec-2017
Date Processed:	2-Jan-2018
Run no.	1
Depth Driller (m):	3636.2
Depth Logger (m):	3636.2
Elevations (m):	D.F.: 11 m      G.L.: -3527.3 m
Permanent Datum:	MSL
Log Measured From:	DF

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.

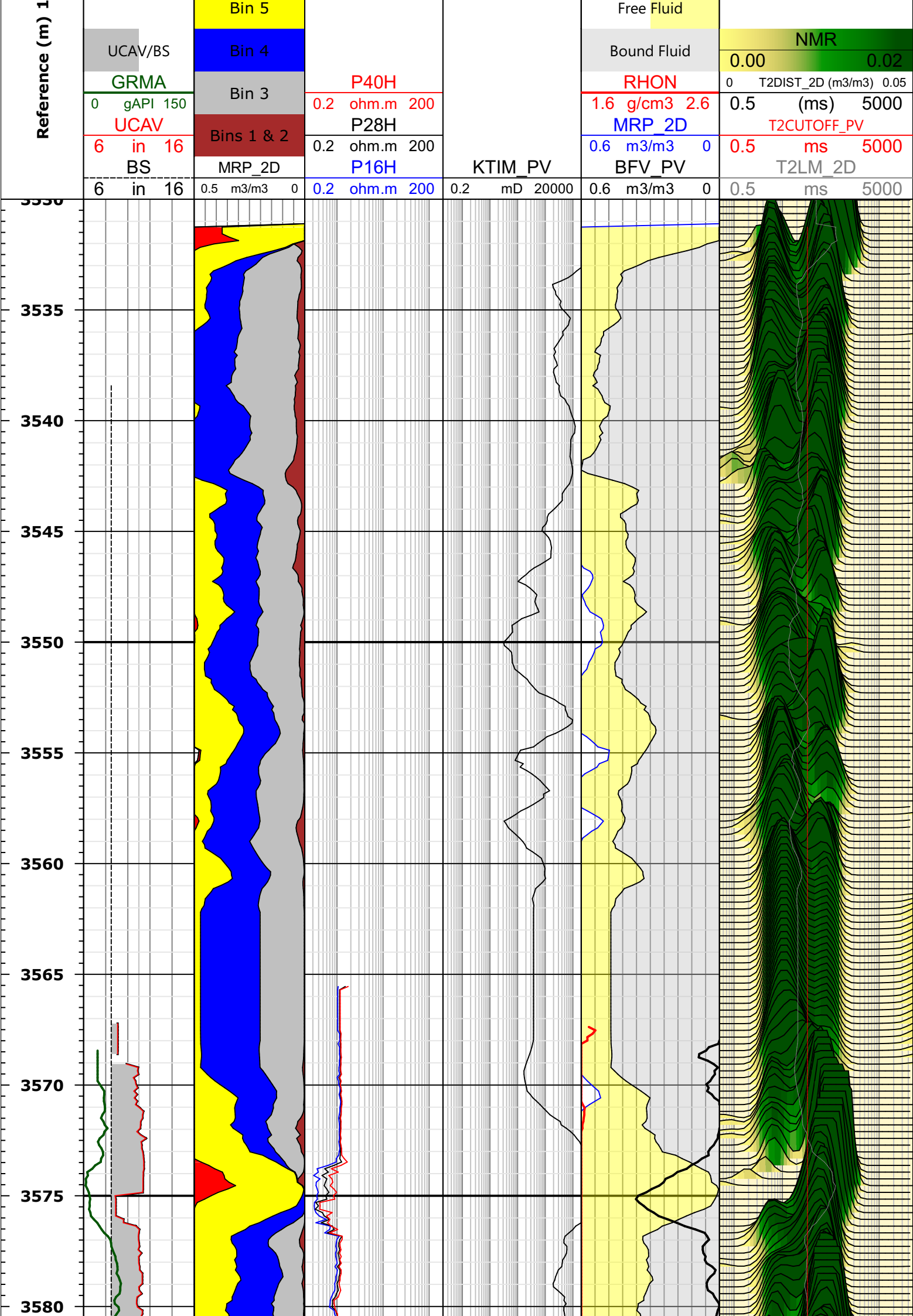
Field Recording:	Location:	Software vers:Maxwell	Engineer: David Pedulla / Liam
Office Processing:	Location: PTS Perth	Software vers: Techlog 2017	Analyst: Boon Cheong
Mud and Borehole Measurements:			
Rm @ Measured Temperature: 0.2 ohm @ 23.889 degC		BHT: N/A	BS: 8.5"
Rmf @ Measured Temperature: 0.15 ohm @ 20 degC		Fluid in Hole: Water	Mud Density: 8.6 lbm/gal
Rmc @ Measured Temperature: N/A		Mud pH: N/A	Fluid Loss: N/A

Remarks:

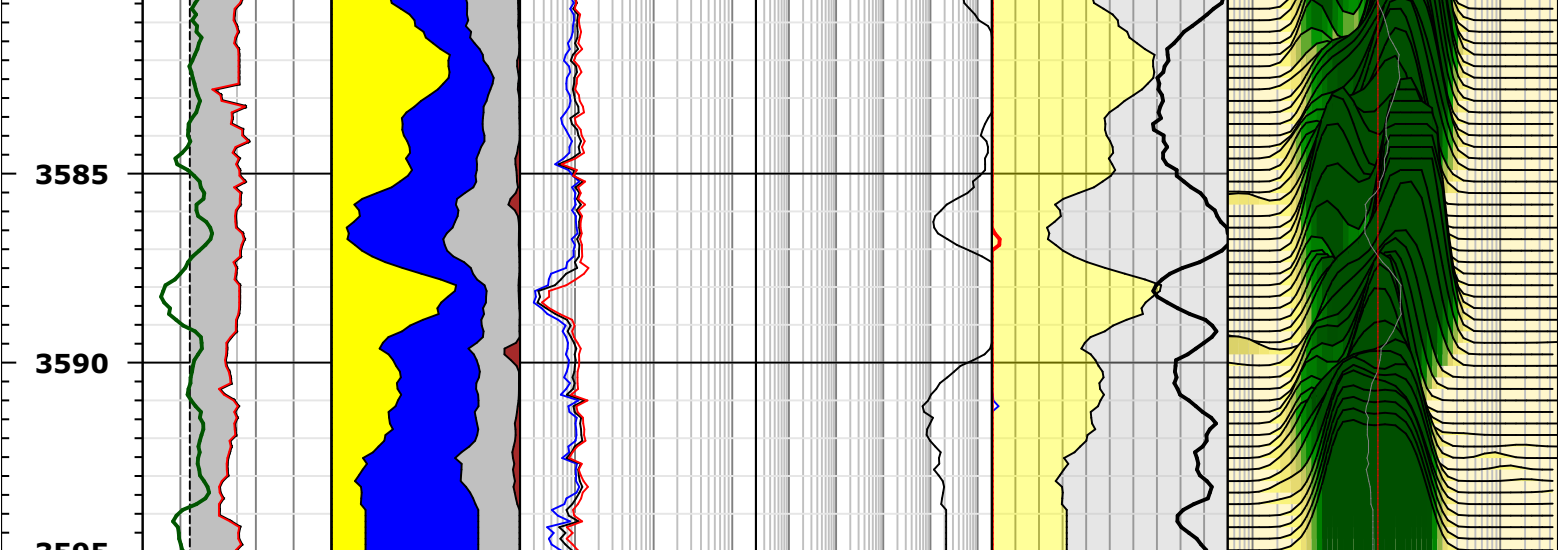
1. ProVision Plus processing results  
2. Data may be affected by borehole condition

002:		Bins 7 & 8				
		Bin 6				









Reference (m) 1:200	UCAV/BS		Bins 7 & 8							
	GRMA		Bin 6							
	0 gAPI 150		Bin 5							
	UCAV		Bin 4							
	6 in 16		Bin 3		P40H					
	BS		Bins 1 & 2		0.2 ohm.m 200					
			MRP_2D		P28H					
	6 in 16				0.2 ohm.m 200					
					P16H					
					KTIM_PV					

Free Fluid					
Bound Fluid					
RHON					
1.6 g/cm3 2.6					
MRP_2D					
0.6 m3/m3 0					
BFV_PV					
0.6 m3/m3 0					

NMR					
0.00					
0		T2DIST_2D (m3/m3)		0.05	
0.5		(ms)		5000	
0.5		T2CUTOFF_PV		5000	
0.5		T2LM_2D		5000	



Acquisition & Calibration			
Echo Amplitude MC:	304.737	Number Sub-Meas:	3
Frequency MC:	248.923 (kHz)	Number Echoes:	1500;64;32;0;0
Antenna Q MC:	125.948	Number Repeats:	1;32;64;0;0
Temperature MC:	26 (degC)	Echo Spacing:	1200;800;600;0;0 (us)
Loop MC:	500.598	Wait Time:	12.7755;0.048;0.016;0;0 (s)

Processing Parameters			
<u>Preprocessing</u>		<u>Inversion</u>	
Stacking Levels:	9	T2 Minimum:	0.5 (ms)
Despike:	yes	T2 Maximum:	5000 (ms)
Burst Baseline Corr:	no	Inversion Components:	30
Bend Ringing Corr:	no	Interpolation:	64
Signal Phasing:	Manual	Sub Measurements:	1;2;3
		Start Echo:	2;2;2
		EPM Processing:	Auto
		T1/T2 Input:	1.5
		Polarization Correction:	no
		Regularization:	Manual
		Regularization Factor:	0.2
<u>LQC Threshold Parameters</u>			
Polarization Corr Threshold:	0.015 (m3/m3)		
Bad Hole Porosity:	0.4 (m3/m3)		
Bad Hole T2:	10 (ms)		

### Bound Fluid Permeability and Bin Porosity

<u>Parameters</u>	<u>Permeability</u>	<u>Timur</u>	<u>SDR</u>
T2 Cutoff:	33 (ms)	Computed:	yes
		Multiplier:	1
		Porosity Exponent:	4
		Ratio/T2LM Exp:	2
<u>Bin Porosities (ms)</u>	Bound Fluid Min:	0.01 (m3/m3)	

0.5
1
3
10
33
100
300
1000
5000