

FLUID LEVEL (m)	20.1 m	T2_START (µs)	300	CBW_CUTOFF (ms)	3	TEMP_OPTION	Geothermal
NUM_STACKS	3	T2_STOP (s)	10	CAPW_CUTOFF (ms)	33	TEMP_GRAD (°C/100m)	0.5
IGNORE_ECHO	0	NUM_STEPS	64	FFV_CUTOFF (s)	3	SURFACE_TEMP (°C)	11
BURSTS	True	ALPHA	500				
TOOL_CONFIG	BMR-60-180404_29Apr2021_230mm			CAL_FILE	BMR-60-180404_29Apr2021_230mm		
NMRLib Version	1.6.1.3			PROCESSED BY	R.Gee / N.Jervis-Bardy		

PERMEABILITY MODELS

TIMUR-COATES (TIM)

$$k_{TIM} = a \cdot TPOR^m \cdot \left(\frac{FFV}{BFV}\right)^n$$

a

m

n

1

4

2

SCHLUMBERGER DOLL RESEARCH (SDR)

$$k_{SDR} = a \cdot TPOR^m \cdot (T_{2LM})^n$$

a

m

n

4

4

2

COMMENTS

The subject borehole was relogged in August 2023 using the same tool with the addition of centralizers that were not deployed in the initial logging due to additional measurement equipment present in hole at that time. The subject repeat run was processed using the same global cutoffs for a clastic (clay (3 ms) and capillary (33 ms) bound water) lithology and standard co-efficients for permeability equations. It should be noted that in unsaturated media, TPOR reports only water content and Water Volume and Hydraulic Conductivity outputs are invalid. The water level of 20.1 m was obtained from the Composite logs and BMR logs have been adjusted accordingly. QC flags have been applied where appropriate and this data should be used with caution unless verified with other information. Where Flag effects are above acceptable tolerances, an additional formation corrupted flag has been added and this data should not be used. BMR data was depth shifted down 0.26 m based on correlation with Acoustic Televiwer and water table information. It was observed that possible borehole influence evident in the initial 2022 non-centralized run was not present in the subject 2023 rerun log. The relatively consistent discrepancy in TPOR and Pore Size (T2Dist) Distribution between the two runs are consistent with the amount of DOI that would be present in the borehole if the tool was running along the borehole wall. As such, the subject BMR 2023 rerun data is representative of formation conditions and it is recommended that the 2022 data not be used for research purposes.

IMPORTANT NOTE

This report is prepared and reviewed by our competent geoscience personnel using the provided or recorded data, however the accuracy of the report is subject to the adequacy and accuracy of data available. NM RSA used industry-recognised and accepted interpretation methods and softwares to create this report and due care has been taken to review the results. Standard NMR Services Australia Pty. Ltd. Terms and Conditions applies.





