

Table 4: Description of Geophysical Logs performed by BHWL

Log Type	Formation Property Measured	Active Passive	Description	Units
Gamma	Gamma ray emission rate	Passive	Gamma rays emitted from the formation in terms of Counts Per Second.	cps
Gamma Equivalent U308	GRE (Equivalent Grade U308)	Passive	Transforms Gamma CPS to equivalent Uranium oxide grade using predetermined calibrations	%eU308
SP	SP (Self Potential)	Passive	Electrical potential with respect to a remote electrode located at surface. Responses related to ion distribution and movement	mV
RLLS	(Lateral Log Shallow) Resistivity	Active	Galvanic Pole-dipole resistivity measurement using a 16" potential electrode separation, capable of shallow (<10cm) investigation	Ohm-m
RLLD	(Lateral Log Deep) Resistivity	Active	Galvanic Pole-dipole resistivity measurement using a 16" potential electrode separation, capable of deep (>15cm) investigation	Ohm-m
ILS	(Induction Log Shallow) Conductivity	Active	Shallow (<15cm) investigation of formation conductivity using electromagnetic induction	mS/m
ILD	(Induction Log Deep) Conductivity	Active	Deep (>15cm) investigation of formation conductivity using electromagnetic induction	mS/m
LSDG	Long Spaced Density Log	Active	Measures the electron density of the formation by detecting the backscatter of gamma rays far from a source within the probe.	g/cc
SSDG	Short Spaced Density Log	Active	Measures the electron density of the formation by detecting the backscatter of gamma rays a short distance from a source within the probe.	g/cc
MS	Magnetic Susceptibility (Aka Kappa)	Active	Measures the degree to which the surrounding geology may be magnetized	$\times 10^{-3}$ SI
VEL	Acoustical Velocity	Active	A full wave acoustical log capable of determining p-wave velocities controlled by formation density, rigidity and porosity	Km/s