



POROSITY VS. PERMEABILITY
Appalachian Exploration
and Development
Henry A. Walker #1
Permit #1024 - Clay County, WV
Injun Sandstone
4101501024
(WV Tight Formation Committee)

Data (Cont'd)Fluid Flow Tests

Core Area: 4.337 cm²
 Core Length: 2.7 cm
 Core Depth: No. 2 - 2417 feet
 No. 4 - 2426 feet
 Test Temperature: 85°F
 Test Pressure: 1000 psig

Core No.	Air Permeability md	Fluid Flowed	Average Flow Rate (ml/min)		Liquid Permeability (md)		Ratio of Liquid to Air Perm. (K _l :K _a)
			Initial	Final	Original	24 hrs	
2A	0.28	Fresh Water	0.15	0.16	0.023	0.024	0.086
4A	0.06	Fresh Water	0.12	0.14	0.018	0.021	0.35
2B	0.28	1% KCl Water	0.69	0.93	0.105	0.142	0.51
4B	0.06	1% KCl Water	0.08	0.09	0.012	0.014	0.23
2C	0.28	3% HCl	0.38	0.56	0.058	0.085	0.304
4C	0.06	3% HCl	0.07	0.1	0.011	0.015	0.25

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